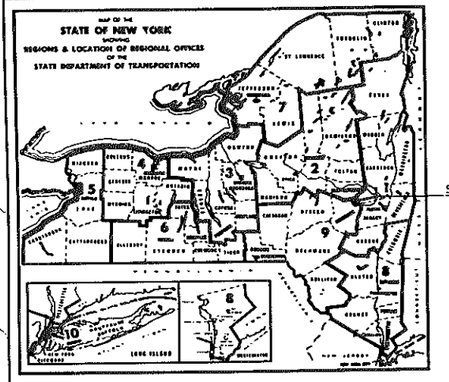
D96243



PROJECT LOCATION:

THIS CONTRACT IS THE FINAL PORTION OF INTERSTATE ROUTE 88, THE SUSQUEHANNA EXPRESSWAY, WHICH CONNECTS BINGHAMTON TO THE CAPITAL DISTRICT. THIS PROJECT BEGINS APPROXIMATELY 500 FEET WEST OF THE ROUTE 7 INTERCHANGE. IT RUNS IN AN EASTERLY DIRECTION FOR 0.9± MILES ON NEW LOCATION ABOUT 1500 FEET NORTH OF ROUTE 7 AND SOUTH OF THE DELAWARE AND HUDSON RAILROAD AND ENDS WITH A NEW TRUMPET INTERCHANGE WITH THE NEW YORK STATE THRUWAY. IT ALSO INCLUDES THE RECONSTRUCTION OF APPROXIMATELY 0.9 MILES OF EXISTING ROUTE 7. THIS CONTRACT IS IN SCHENECTADY COUNTY.

DESIGN DATA:

	MAIN LINE		ROUTE 7	
	ALL	ACT	ALL	ACT
DESIGN CLASS	R-2		R-5	–
DESIGN SPEED	70	70	60	60
CURVE	3°	1°-30'	4°30'	2°-15'
MAX. GRADE	4%	2.3%	5%	4.5%
MIN. S.S.D	600'	862'	475'	481'
ESTIMATED 2000 TRAFFIC				
D.H.V – 1 WAY	2000	1520	500	830
A.A.D.T – 2 WAY		16800		13500

NOTE:

WHEREVER ITEM NO. 201.07.10 APPEARS IN THE PROPOSAL OR ON THE PLANS THE DESCRIPTION SHALL BE MADE TO READ: "REMOVING AND STORING RIGHT-OF-WAY FENCING."

CONTRACTOR'S NAME	AUGUST BOHL CONTR.
AWARD DATE	2/25/80
COMPLETION DATE	6/30/82
FINAL ACCEPTANCE DATE	12/7/82
REGIONAL DIRECTOR (Name)	DONALD N. GEOFFROY
ENGINEER IN CHARGE (Name)	CHARLES P. SORENTO
FINAL COST TOTAL	$12,923,606.70

FISCAL SHARE	COST(S)
1	$10,084,615.85
2	$1,894,437.77
3	$942,436.24
4	$2,116.84

PREPARED BY:
NYS. DEPARTMENT OF TRANSPORTATION
DESIGN BUREAU AND
GOODKIND & O'DEA, INC.
CONSULTING ENGINEERS

7/25/79
DIRECTOR, DESIGN BUREAU — DATE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DESIGN AND CONSTRUCTION DIVISION

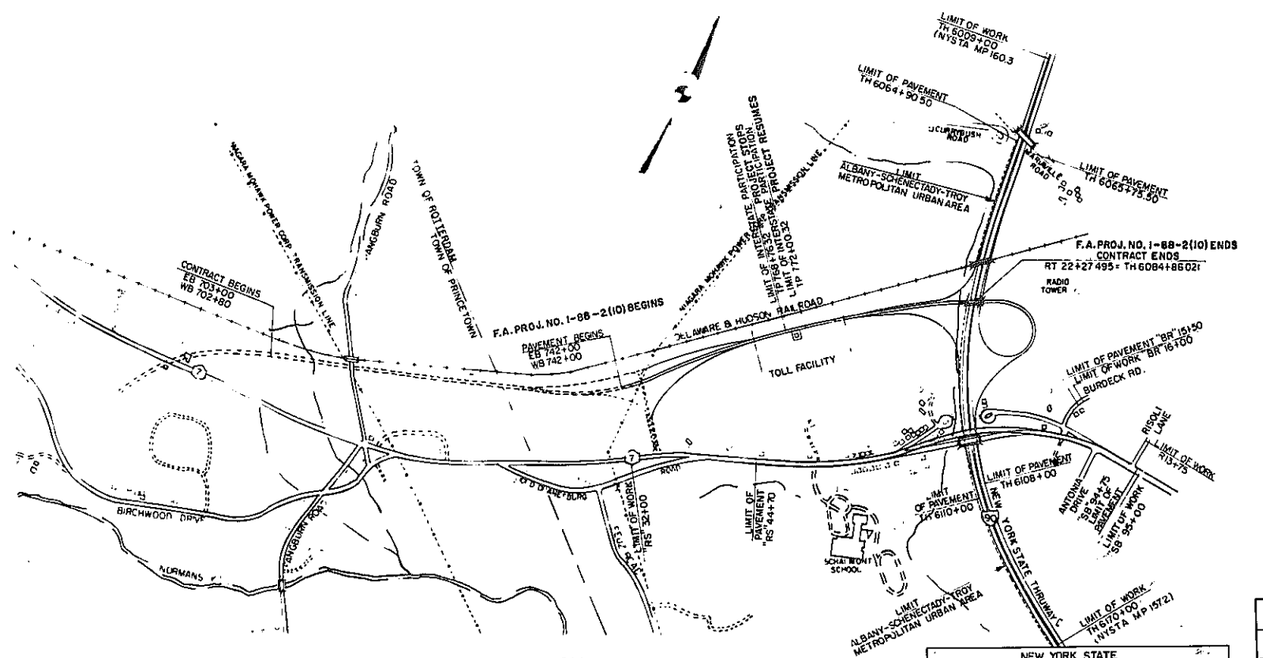
THIS SET OF PLANS INCLUDES THE COVER SHEETS FOR THE FOLLOWING RELATED CONTRACTS FOR THE THRUWAY TOLL PLAZA.
D96244 – HEATING & VENTILATING
D96245 – PLUMBING
D96246 – ELECTRICAL
EACH COVER SHEET CONTAINS A CROSS REFERENCE BETWEEN THE INDIVIDUAL RECORD PLAN SHEET & RECORD PLANS FOR D96243

PLANS FOR CONSTRUCTING A PORTION OF
INTERSTATE ROUTE 508, SECTION 4
(ROUTE 7 CONNECTION TO N.Y.S. THRUWAY), S.H. 80-1
Between Station EB 703+00 and Station RT 22+27.495
A Length of 0.52 Miles in the Town of Princetown and
A Length of 1.09 Miles (Plus 3.8 Miles of Access) in the Town of Rotterdam
A TOTAL CONTRACT LENGTH OF 1.61 MILES (PLUS 3.8 MILES OF ACCESS)
F.A. PROJECT NO. I-88-2(10)

284 SHEETS — CONTRACT NO. D96243

SCHENECTADY COUNTY

RECORD PLANS



TOLL PLAZA PLANS
Prepared and recommended
Samuel Yamnuder
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7/30/79
P.E. No. 52072

SCALE 1 INCH = 800 FEET
800 400 0 800 1600 2400 3200 4000
0 1/2 MILE

INDEX SHEET # 2

NEW YORK STATE THRUWAY AUTHORITY
APPROVED:
9/19/79
CHIEF ENGINEER — DATE

RECOMMENDED BY: 7/23/79 — REGIONAL DESIGN ENGINEER — DATE
RECOMMENDED BY: 7/19/79 — REGIONAL CONSTRUCTION ENGINEER — DATE
RECOMMENDED BY: 7/19/79 — REGIONAL HWY. MAINT. ENGINEER — DATE
RECOMMENDED BY: 7/19/79 — REGIONAL TRAFFIC ENGINEER — DATE
RECOMMENDED BY: 7/19/79 — REGIONAL DIRECTOR — DATE

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y		1 RI	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

TYPE OF CONSTRUCTION

I-88 Mainline – Unreinforced Cement Concrete 0.87 Miles
I-90 Interchange Ramps – Unreinforced Cement Concrete 2.15 Miles
Route 7 Reconstruction – Asphalt Concrete 1.19 Miles
Including
Route 7 Bridge over N.Y.S. Thruway
2 Span Continuous (101' and 107' Span Lengths)
Steel Stringers, Composite Monolithic Concrete Slab
and
Bridge No. 3 Ramps P+L over N.Y.S. Thruway and Ramp L
2 Span Continuous (102' and 132' Span Lengths)
Steel Stringers, Composite Monolithic Concrete Slab

STANDARD SHEETS

203-1, 203-2R1, 203-3, 203-4R1, 203-5R1, 502-1R1, 502-2R1, 502-3, 502-4, 502-5, 502-6, 502-9, 603-1, 603-3, 606-3R2, 606-4R1, 606-6R1, 606-20, 606-21, 607-1, 607-2, 609-1, 611-1, 619-3R1, 619-4, 625-1R1, 644-1, 644-2, 645-7, 645-8R1, 645-9, 645-10, 645-11, 645-12, 645-13R1, 645-14R2, 646-4, 646-5, 655-3, 655-4R1, 655-5R1, 655-6R1, 655-7R1

All work contemplated under this contract is to be covered by and in conformity with the specifications of January 3, 1978, as amended by Addendum No. 1 except as modified on these plans and in the Itemized Proposal.

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
Approved: Sept 13, 19 79
MICHAEL J. SHEEHAN, JR. — Acting in his capacity as Director Rail Project Implementation Bureau

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
APPROVED:
DIVISION ADMINISTRATOR — DATE

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
Approved: Sept. 19
L.W. HALLENBECK — Acting in his capacity as Chief Engineer

Approved: SEPT. 17, 19 79
ROGER H. EDWARDS — Acting in his capacity as Deputy Chief Engineer (Facilities Design)

Approved: Sept 17, 19 79
E.V. HOURIGAN — Acting in his capacity as Deputy Chief Engineer (Structures)

REVISIONS

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

FED ROAD REG NO	STATE	SHEET NO	TOTAL SHEETS
1	N Y	G-1 R1	

FEDERAL AID PROJECT NO: I-88-2(10)
CAPITAL PROJECT IDENTIFICATION NO. 1357.04.315, 1357.04.306

D96243

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	2	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY

LEGEND

FEATURE	SYMBOL PROPOSED	SYMBOL EXISTING
1 ROADS		
ROADS		
SIDEWALK		
CURB		
2 ROUTE MARKERS		
INTERSTATE		
US		
STATE		
COUNTY		
TOWN		
3 TYPICAL SECTIONS		
ORIGINAL GROUND		
4 BARRIERS		
BARRICADE		
BOX BEAM OR W BEAM GUIDE RAILING		
BOX BEAM OR W BEAM WALL BARRIER		
CABLE GUIDE RAIL		
RETAINING WALL		
FENCE		
GUIDE POSTS		
STONE FENCE		
5 DRAINAGE FACILITIES		
CULVERTS		
CATCH BASIN, ETC		
WATER COURSE		
DITCH		
GUTTER		

FEATURE	SYMBOL PROPOSED	SYMBOL EXISTING
6 WATER LOCATIONS		
STREAM		
LAKE OR POND		
DRY POND OR DRY LAKE		
SPRING		
MARSH, FRESH		
MARSH, SALT		
RIPRAP		
7 SURVEYING DATA		
SPOT ELEVATION		103.2
WATER ELEVATION		WE 102.5
BENCH MARK		BM 12
TRANSIT POINT		
NORTH ARROW (TRUE)		
BASELINE		
CENTERLINE		
8 BUILDING AND SPECIAL SITES		
BUILDING IN GENERAL		
BUILDING TO BE DEMOLISHED		
FOUNDATION		
TANK		
9 SIGNS AND BILLBOARDS		
SIGNS, GROUND MTD		
SIGNS, OVERHEAD		
PROPOSED SIGN LOCATION & TEXT		
10 TOPOGRAPHY		
CONTOURS		
ROCK OUTCROP		

FEATURE	SYMBOL PROPOSED	SYMBOL EXISTING
11 BOUNDARIES		
NATIONAL		
STATE		
COUNTY		
TOWN		
CITY OR INC VILLAGE		
PROPERTY LINE		
ROW LINE & MON	MON	MON
ACCESS LINE	ROW w/A ROW w/o	ROW w/A ROW w/o
ACQUISITION INFO		
12 TREE AND BRUSH		
WOODED AREA		
BRUSH		
TREES, DECIDUOUS		
TREES, CONIFEROUS		
STUMP		
HEDGE		
13 UTILITIES ABOVE GROUND		
HIGH TENSION TRANSMISSION TOWER		
UTILITY POLE		
TRAFFIC SIGNAL		
FIRE HYDRANT		
PULL BOX STREET LIGHTS		
PULL BOX TRAFFIC SIGNAL		
STREET LIGHT		
STREET LIGHT UTILITY POLE		
STEEL SIGNAL POLE		
SIGNAL POLE WITH CONTROLLER		
POLICE OR FIRE CALL BOX		
14 CUT AND FILL LIMITS		
TOP OF CUT		
BOTTOM OF FILL		

FEATURE	SYMBOL PROPOSED	SYMBOL EXISTING
15 UTILITIES BELOW GROUND		
ELECTRIC	E	E
GAS	G	G
TELEPHONE	T	T
WATER MAIN	W	W
WATER VALVE	WV	WV
SEWER, SANITARY	Sa	Sa
SEWER, STORM	St	St
MANHOLE	MH	MH
UTILITY VALVE		
16 RAILROADS		
SMALL SCALE TRACK		
LARGE SCALE TRACK		

17 SUBSURFACE EXPLORATIONS

STANDARD SYMBOL	AB C	1/4" CIRCLE, IDENTIFY

REPLACE ABBREVIATION "AB" WITH

DA = 2.5" CASED DRILL HOLE
DN = 4.0" CASED DRILL HOLE
FH = HOLLOW FLIGHT AUGER
DM = DRILLING MUD
PA = POWER AUGER
AH = HAND AUGER
PH = PROBE HOLE
RP = ONE INCH SAMPLER (RETRACTABLE PLUG)
TP = TEST PIT
PT = PERCOLATION TEST HOLE
SP = SEISMIC POINT

REPLACE ABBREVIATION "C" IN CATEGORIES DA, DN, FH, & DM WITH

B = BRIDGE
C = CUT
D = DAM
F = FILL
K = CULVERT
W = WALL
X = To be used if one of the above cannot be defined at the time the exploration is made

ABBREVIATIONS

ALIGNMENT

B = BASELINE
C = CENTERLINE
M = MAINLINE
STA. = STATION
P.I. = POINT OF INTERSECTION
P.C. = POINT OF CURVE
P.T. = POINT OF TANGENT
T.S. = TANGENT TO SPIRAL
S.C. = SPIRAL TO CURVE
C.S. = CURVE TO SPIRAL
S.T. = SPIRAL TO TANGENT
R. = RADIUS
D. = DEGREE OF CURVE
DIA. = DIAMETER
L. = LENGTH
EXT. = EXTERNAL
EQ. = EQUALITY
AH. = AHEAD
BK. = BACK
E.MAX. = MAXIMUM SUPERELEVATION
P.V.I. = POINT OF VERTICAL INTERSECTION
V.C. = VERTICAL CURVE
M.C. = CENTER CORRECTION OF VERTICAL CURVE
P.S.D. = PASSING SIGHT DISTANCE
S.S.D. = STOPPING SIGHT DISTANCE
H.S.D. = HEADLIGHT SIGHT DISTANCE

TOPOGRAPHY (DRAINAGE

D XING = DITCH CROSSING
CULV. = CULVERT
H.W. = HEADWALL
INV. = INVERT
C.P. = CONCRETE PIPE
R.C.P. = REINFORCED CONCRETE PIPE
C.M.P. = CORRUGATED METAL PIPE
E.S. = END SECTION

TOPOGRAPHY (DRAINAGE) CONTINUED

O.C.M.P. = OBLATE CORRUGATED METAL PIPE
V.C.P. = VITRIFIED CLAY PIPE
V.T.P. = VITRIFIED TILE PIPE
C.I.P. = CAST IRON PIPE
C.B. = CATCH BASIN
C.I. = CURB INLET
D.I. = DROP INLET
M.H. = MANHOLE
T.R. = TOP OF RIM
C STRM. = CENTERLINE OF STREAM
B.B. = BOTTOM OF BANK (STREAM)
T.B. = TOP OF BANK (STREAM)
E.H.W. = EXTREME HIGH WATER
O.H.W. = ORDINARY HIGH WATER
M.H.W. = MEAN HIGH WATER
ELEV. OR EL. = ELEVATION
O.L.W. = ORDINARY LOW WATER
E.L.W. = EXTREME LOW WATER

TOPOGRAPHY (UTILITIES)

TEL. P. = TELEPHONE POLE
G.P. = GUY POLE
L.P. = LIGHT POLE
P.P. = POWER POLE
G. = GAS
L.P.G. = LOW PRESSURE GAS
H.P.G. = HIGH PRESSURE GAS
G.V. = GAS VALVE (MAIN LINE)
G.S.B. = GAS SERVICE BOX (HOUSE LINE)
W. = WATER
W.V. = WATERVALVE (MAIN LINE)
W.S.B. = WATER SERVICE BOX (HOUSE BOX)
HYD. = HYDRANT

TOPOGRAPHY (MISCELLANEOUS)

B.M. = BENCH MARK
R.O.W. = RIGHT OF WAY
P = PROPERTY LINE
ABUT. = ABUTMENT
W.W. = WINGWALL
FO. = FOUNDATION
C.R.W. = CONCRETE RETAINING WALL
DR. = DRIVEWAY
BLDG. = BUILDING
HO. = HOUSE
POR. = PORCH
FR.HO. = FRAME HOUSE
STO.HO. = STONE HOUSE
BRK.HO. = BRICK HOUSE
C.B.HO. = CONCRETE BLOCK HOUSE
ST. = STREET
STY. = STORY
S.W. = SIDEWALK
T.L. = TREE LINE
C.C. = CENTER TO CENTER
I.P. = IRON PIN OR IRON PIPE
MON. = MONUMENT
STK. = STAKE
N.&W. = NAIL AND WASHER
N &R. = NAIL AND RED
SPK. = SPIKE
R.R. = RAILROAD
M. = MEASURED DISTANCE
D. = DEED DISTANCE
S.H. = STATE HIGHWAY
CR. = COUNTY ROAD
R.O.W.w/a = RIGHT OF WAY WITH ACCESS
R.O.W.wo/a = RIGHT OF WAY WITHOUT ACCESS
B.O. = BOTTOM OF OPENING
T.O. = TEMPORARY OCCUPANCY
P.E. = PERMANENT EASEMENT
T.E. = TEMPORARY EASEMENT

INDEX

SH. NO.	TITLE	DWG. NO.
1	COVER SHEET	G-1
2	INDEX AND LEGEND	G-2
3	TYPICAL SECTIONS - I-88	TY-1
4	TYPICAL SECTIONS - I-88	TY-2
5	TYPICAL SECTIONS - I-88	TY-3
6	TYPICAL SECTIONS - I-88	TY-4
7	TYPICAL SECTIONS - I-88	TY-5
8	TYPICAL SECTIONS - I-88	TY-6
9	TYPICAL SECTIONS - I-88	TY-7
10	TYPICAL SECTIONS - I-88	TY-8
11	TYPICAL SECTIONS - I-88	TY-9
12	TYPICAL SECTIONS - I-88	TY-10
13	TYPICAL SECTIONS - I-88	TY-10A
14	TYPICAL SECTIONS - I-88	TY-11
15	TYPICAL SECTIONS - I-88	TY-12
16	TYPICAL SECTIONS - ROUTE 7	TY-13
17	TYPICAL SECTIONS - ROUTE 7	TY-14
18	TYPICAL SECTIONS - ROUTE 7	TY-15
19	TYPICAL SECTIONS - ROUTE 7	TY-16
20	TYPICAL SECTIONS - ROUTE 7	TY-17
21	TYPICAL SECTIONS - ROUTE 7	TY-18
22	MEDIAN CROSSOVER-N.Y.S. THRUWAY	TY-19
23	TOLL PLAZA LAYOUT AND JOINT LAYOUT	TY-20
24	LOCATION PLAN, 1" = 200'	SLP-1
25	LOCATION PLAN, 1" = 200'	SLP-2
26	1" = 200' MAINLINE PROFILES	SLP-3
27	1" = 200' PROFILES	SLP-4
28	1" = 200' PROFILES	SLP-5
29	TABLE OF MAINTENANCE	MP-1
30	MAINTENANCE JURISDICTION PLAN	MP-2
31	MAINTENANCE JURISDICTION PLAN	MP-3
32	TRAFFIC CONTROL AT INTERCHANGES	MP-4
33	2 LANE THRUWAY TRAFFIC CONTROL PLAN	MP-5
34	TEMPORARY TRAFFIC RELOCATION - ROUTE 7	MP-6
35	MAINTENANCE AND PROTECTION OF TRAFFIC ROUTE 7 STRUCTURE OVER N.Y.S. THRUWAY	MP-7
36	GENERAL MAINTENANCE & PROTECTION OF TRAFFIC NOTES	MP-8
37	BASELINE TIES AND TABLE OF BENCHMARKS	BT-1
38	UTILITY DISPOSITION TABLE	MT-1
39	ESTIMATE OF QUANTITIES	MT-2
40	ESTIMATE OF QUANTITIES	MT-3
41	ESTIMATE OF QUANTITIES	MT-4
42	TABLE OF LENGTHS, TABLE OF R.O.W. ACQUISITION	MT-5
43	CENTERLINE - BASELINE CONTROL	MT-6
44	EARTHWORK SUMMARY ES-1	MT-7
45	EARTHWORK SUMMARY ES-2	MT-8

SH. NO.	TITLE	DWG. NO.
46	DRIVEWAY DETAILS	MT-9
47	MISCELLANEOUS DETAILS AND TABLES	MT-10
48	MISCELLANEOUS TABLES	MT-11
49	UNDERDRAIN DETAILS	D-1
50	DRAINAGE STRUCTURE TABLE	D-2
51	STONE LINED DITCH DETAILS	D-3
52	PROFILE - 12' STONE LINED DITCH	D-4
53	PROFILE - 12' STONE LINED DITCH	D-5
54	D.S.#6 - RK 21+80 - PRECAST CONC. BOX CULV.	D-6
55	D.S.#6 - RK 21+80 - HEADWALL & WINGWALL DETAIL	D-7
56	BAR LIST DS#6	D-8
57	CUT-OFF WALL DETAILS	D-9
58	DRAINAGE STRUCTURE DETAILS	D-10
59	DRAINAGE DETAILS	D-11
60	DRAINAGE DETAILS	D-12
61	MISC. DRAINAGE DETAILS	D-13
62	HOUSE SERVICE CONNECTION & WATERLINE TABLES	U-1
63	WATER MAIN DETAILS	U-2
64	RELOCATED 12" WATER MAIN ALONG NORTH OF ROUTE 7	U-3
65	WATER MAIN PROFILES	U-4
66	WATER MAIN PROFILES	U-5
67	WATER MAIN CASING SECTIONS	U-6
68	WATER MAIN CASING SECTIONS	U-7
69	RELOCATED 8" P.V.C. WATER MAIN OLD DUANESBURG RD. TO EDGECOMB STEEL	U-8
70	CONCRETE MEDIAN BARRIER & PIER PROTECTION DETAILS	CB-1
71	CONCRETE MEDIAN BARRIER & PIER PROTECTION DETAILS	CB-2
72	TYPICAL EROSION CONTROL MEASURES	PC-1
73	TEMPORARY POLLUTION CONTROL PLAN	PC-2
74	TEMPORARY POLLUTION CONTROL PLAN	PC-3
75	PAVEMENT MARKING DETAILS	PM-1
76	PAVEMENT MARKING DETAILS - GORES	PM-2
77	PAVEMENT MARKING DETAILS - ROUTE 7	PM-3
78	LANDSCAPE DEVELOPMENT SHEET	L-1
79	UTILITY BUILDING LANDSCAPE PLAN	L-2
80	1" = 50' SCALE PLAN - I-88 - MAINLINE	PN-1
81	1" = 50' SCALE PLAN - I-88 - MAINLINE	PN-2
82	1" = 50' SCALE PLAN - TOLL PLAZA	PN-3

SH. NO.	TITLE	DWG. NO.
83-87	1" = 50' SCALE PLAN - I-88 - I-90 INTERCHANGE	PN-4 - PN-8
88-91	1" = 50' SCALE PLAN - ROUTE 7	PN-9 - PN-12
92-101	1" = 20' SCALE PLAN - ROUTE 7	PN-13 - PN-22
102	MAINLINE PROFILES STA. 731+00 TO 744+00	PF-1
103	MAINLINE PROFILES STA. 744+00 TO 759+50	PF-2
104	TOLL PLAZA PROFILES	PF-3
105	RAMPS C & D PROFILES	PF-4
106	RT PROFILE	PF-5
107	RAMP K PROFILE	PF-6
108	RAMP M PROFILE	PF-7
109	RAMP L PROFILE	PF-8
110	RAMP P PROFILE	PF-9
111	RELOCATED ROUTE 7 PROFILE	PF-10
112	RELOCATED ROUTE 7 PROFILE	PF-11
113	1" = 50' SCALE PROFILES	PF-12
114-123	SIGN AND DELINEATOR LOCATIONS	SDL-1 - SDL-10
124-127	SIGN TEXT DATA	SD-1 - SD-4
128-132	SIGN FACE DETAILS	SD-5 - SD-9
133-141	SIGN MOUNTING DETAILS	SS-1 - SS-9
142-143	LIGHTING DETAILS	LD-1 - LD-2
144	TABLES OF DELINEATOR LOCATIONS	DLT-1
145	TRAFFIC SIGNAL NOTES	TSGN
146-147	TRAFFIC SIGNAL PLANS	TS-1 - TS-2
148-149	TRAFFIC SIGNAL MOUNTING DETAILS	TS-3 - TS-4
150	TRAFFIC SIGNAL DETECTORS	TS-5
151	PULL BOX DETAILS & CONTROLLER MOUNTINGS	TS-6
152-154	TOLL PLAZA LAYOUT PLANS	LP 1 - LP 3
155-156	TOLL PLAZA TYPICAL SECTIONS	T1 - T2
157-169	ARCHITECTURAL PLANS	A1 - A13
170-174	PLUMBING PLANS	P1 - P5
175-177	WATER SUPPLY SYSTEM	W1 - W3
178-181	HEATING & VENTILATING PLANS	HV1 - HV4
182-190	TOLL BOOTH PLANS	TB1 - TB9
191-198	STRUCTURAL PLANS	S1 - S8
199-212	ELECTRICAL PLANS	E1 - E14
213-239	BRIDGE# 1, ROUTE 7 BRIDGE OVER N.Y.S. THRUWAY	1 - 27
240-251	D.& H. R.R. BRIDGE ABUTMENTS	1 - 12
252-284	BRIDGE # 3, RAMP "RT" BRIDGE OVER N.Y.S. THRUWAY	1 - 33

INDEX & LEGEND

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
G-2	NONE	7/79	REGION 1

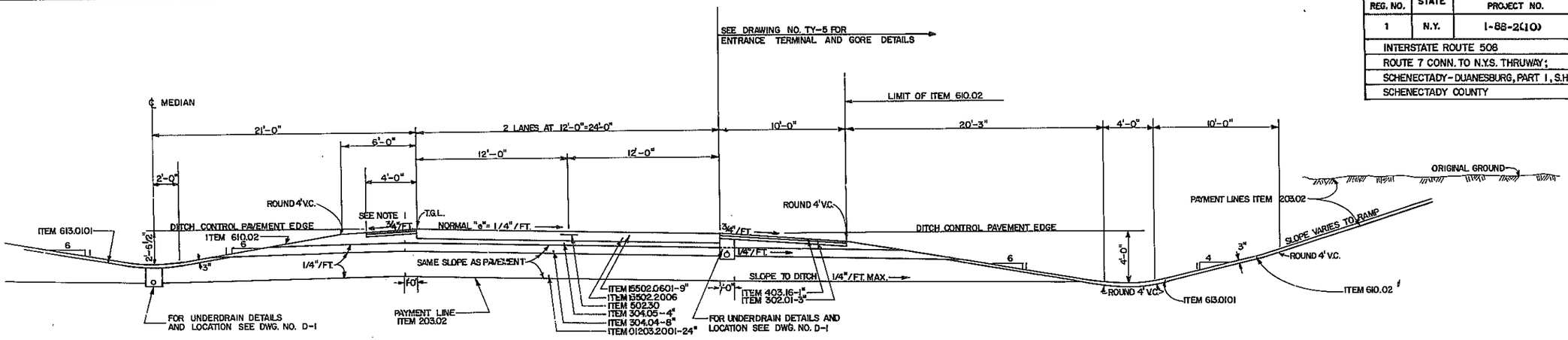
HC 476 (10-76)

DATED / REVIEWED BY / DATED / CHECKED BY / DATED / DESIGNED BY / IN CHARGE OF

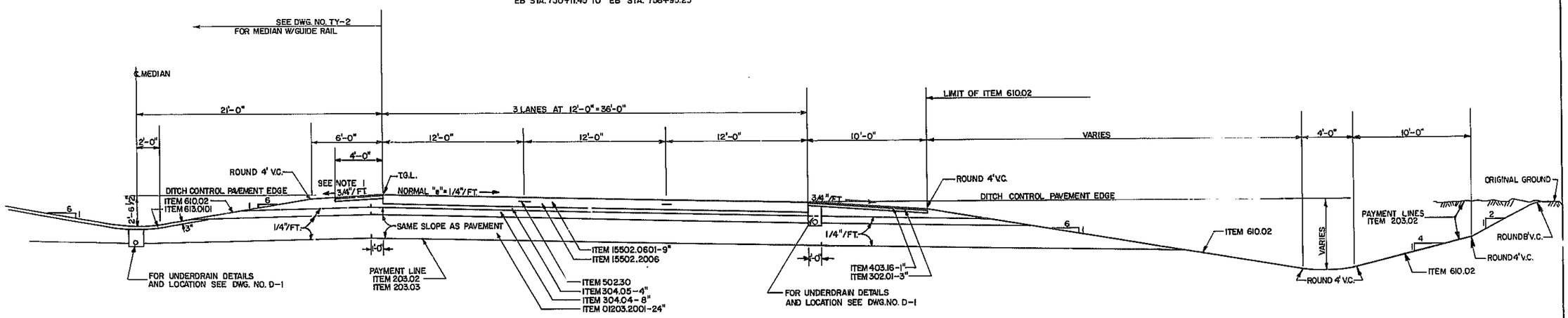
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	3	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



EASTBOUND-EARTH, CUT
NORMAL & BANKED RIGHT SECTION
(READ IN DIRECTION OF STATIONS)
"EB" STA. 750+11.45 TO "EB" STA. 758+95.23



EASTBOUND-EARTH, CUT & FILL
NORMAL & BANKED RIGHT SECTION
(READ IN DIRECTION OF STATIONS)
"EB" STA. 758+95.23 TO "EB" STA. 763+88.32

ITEM NO.	DESCRIPTION	PAY UNIT	ITEM NO.	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.	502.30	LONGITUDINAL JOINT TIES	EA.
203.03	EMBANKMENT IN PLACE	C.Y.	18502.4401	SAWING & SEALING PAVEMENT & SHOULDER JOINTS	L.F.
01203.2001	SELECT GRANULAR SUBGRADE (MODIFIED)	C.Y.	17605.9104	CORR. POLY. UNDERDRAIN PIPE, 4" DIAMETER	L.F.
302.01	BITUMINOUS STABILIZED COURSE	C.Y.	605.1001	UNDERDRAIN FILTER, TYPE II	C.Y.
304.04	SUBBASE COURSE, TYPE 3	C.Y.	610.02	SEEDING	ACRE
304.05	SUBBASE COURSE, TYPE 4	C.Y.	613.0101	TOPSOIL	C.Y.
403.16	ASPHALT CONCRETE, TYPE 6 TOP COURSE	TON			
15502.0601	CEMENT CONCRETE PAVEMENT UNREINFORCED CLASS C, PROFILOGRAPH	C.Y.			
15502.2006	TRANSVERSE JOINT SUPPORTS UNREINFORCED CONCRETE	L.F.			

NOTES
1) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES USE ROLL-OVER OF 0.08 FT./FT. AT PAVEMENT SHOULDER JOINT ON THE HIGH SIDE.
2) WHEN GUIDE RAIL IS PROVIDED, STABILIZE THE SHOULDER 6" BEHIND THE GUIDE POST.
3) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTIONS AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

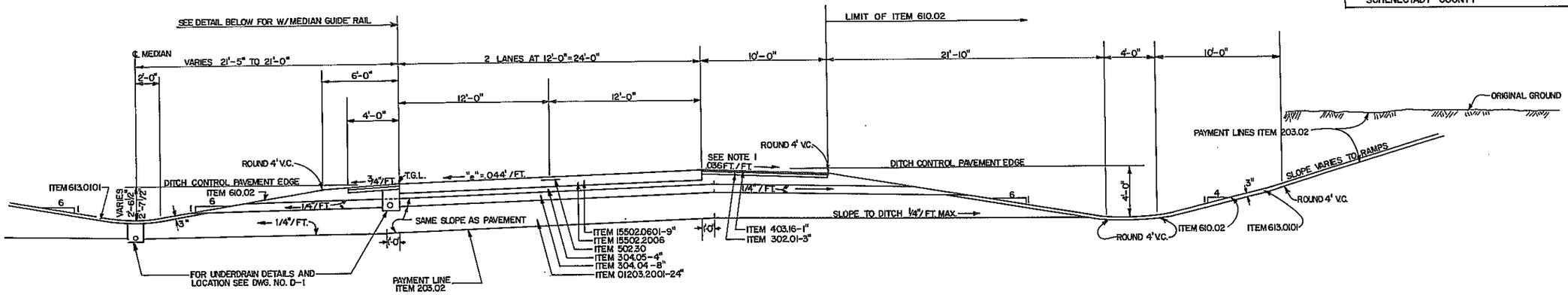
DRAWING NO.	SCALE	DATE	REGION
TY-1	1/4"=1'-0"	3/79	1

DATE ___ CHECKED BY ___ DRAFTED BY ___ CHECKED BY ___ ESTIMATED BY ___ CHECKED BY ___ DESIGNED BY ___ IN CHARGE OF ___
HC 47-2 (5/76)

D96243

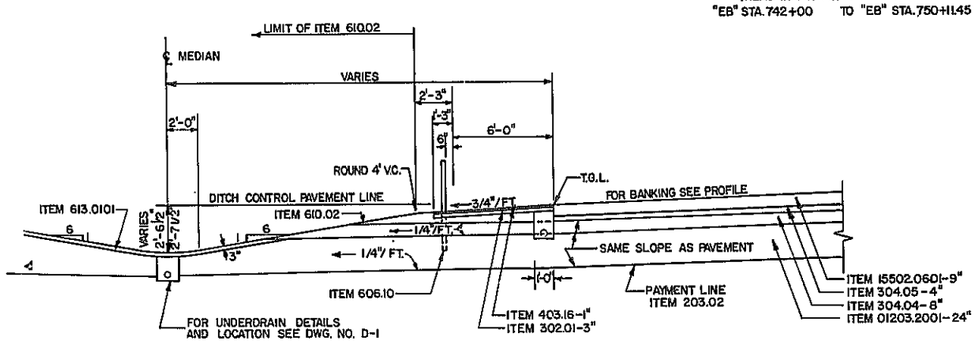
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	421	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY – DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



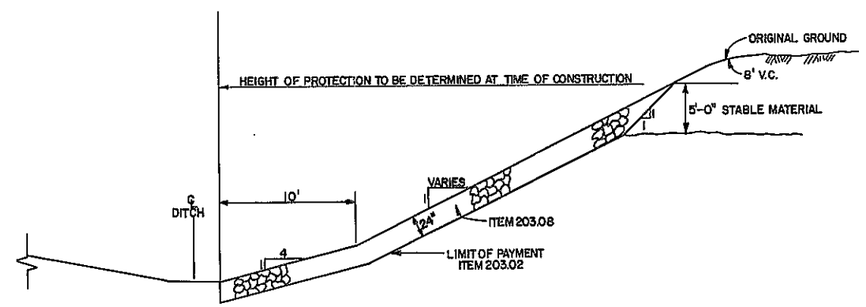
EASTBOUND-EARTH, CUT BANKED LEFT SECTION

(READ IN DIRECTION OF STATIONS)
"EB" STA. 742+00 TO "EB" STA. 750+11.45



EASTBOUND-EARTH, CUT SECTION W/ MEDIAN GUIDE RAIL

(READ IN DIRECTION OF STATIONS)
"EB" STA. 731+90 TO "EB" STA. 733+30
"EB" STA. 745+00 TO "EB" STA. 747+85
"EB" STA. 761+81 TO "EB" STA. 763+39



SLOPE PROTECTION DETAIL

APPROXIMATE LOCATIONS
(READ IN DIRECTION OF STATIONING)
"WB" STA. 747+15 "WB" ~~STA. 746+00~~ TO "WB" STA. ~~763+00 LT.~~ 755+35 LT.
"RC" STA. 11+50 TO "RC" STA. ~~22+00 LT.~~ 23+00 LT.
~~"RD" STA. 15+00 TO "RD" STA. 22+50 RT.~~

REVISIONS

ITEM NO.	DESCRIPTION	PAY UNIT	ITEM NO.	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.	17605.9104	CORR. POLY. UNDERDRAIN PIPE, 4" DIAMETER	L.F.
01203.2001	SELECT GRANULAR SUBGRADE (MODIFIED)	C.Y.	605.1001	UNDERDRAIN FILTER, TYPE II	C.Y.
302.01	BITUMINOUS STABILIZED COURSE	C.Y.	606.10	BOX BEAM GUIDE RAILING	L.F.
304.04	SUBBASE COURSE, TYPE 3	C.Y.	606.11	BOX BEAM GUIDE RAILING (SHOP CURVED)	L.F.
304.05	SUBBASE COURSE, TYPE 4	C.Y.	606.14	BOX BEAM GUIDE RAILING – END ASSEMBLY	EA.
403.16	ASPHALT CONCRETE, TYPE 6 TOP COURSE	TON	610.02	SEEDING	ACRE
15502.0601	CEMENT CONCRETE PAVEMENT UNREINFORCED CLASS C, PROFILOGRAPH	C.Y.	613.0101	TOPSOIL	C.Y.
15502.2006	TRANSVERSE JOINT SUPPORTS UNREINFORCED CONCRETE	L.F.	203.08	SELECT GRANULAR FILL, SLOPE PROTECTION	C.Y.
502.30	LONGITUDINAL JOINT TIES	EA.			
18502.4401	SAWING & SEALING PAVEMENT & SHOULDER JOINTS	L.F.			

NOTES
1) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4" FT. THE SHOULDER SLOPE VARIES. USE ROLL-OVER OF 0.08 FT./FT. AT PAVEMENT SHOULDER JOINT ON THE HIGH SIDE.
2) WHEN GUIDE RAIL IS PROVIDED, STABILIZE THE SHOULDER 6" BEHIND THE GUIDE POST.
3) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTIONS AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
TY-2	1/4"=1'-0"	3/79	REGION 1

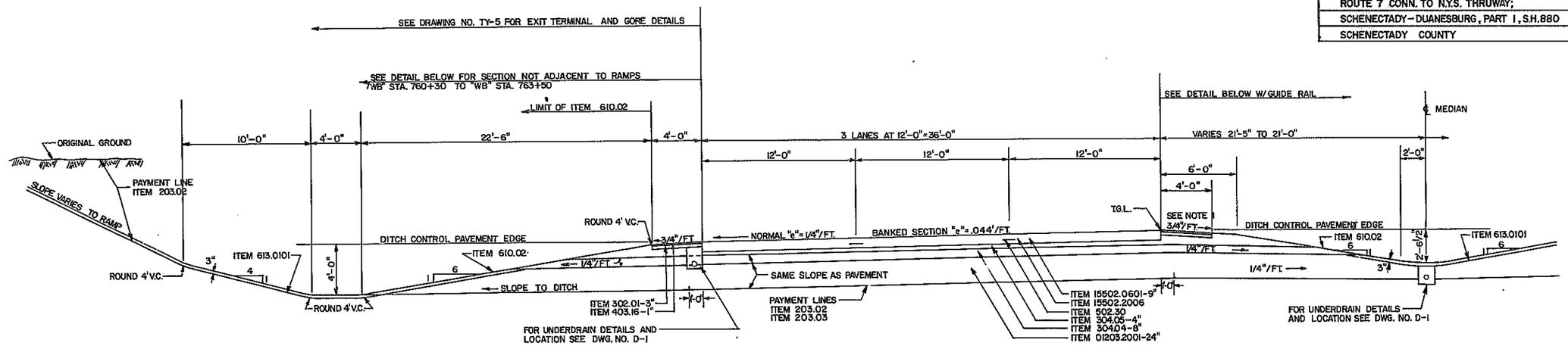
DATE ___ CHECKED BY ___ DRAFTED BY ___ CHECKED BY ___ ESTIMATED BY ___ CHECKED BY ___ DESIGNED BY ___ IN CHARGE OF ___

HC 47-2 (5/76)

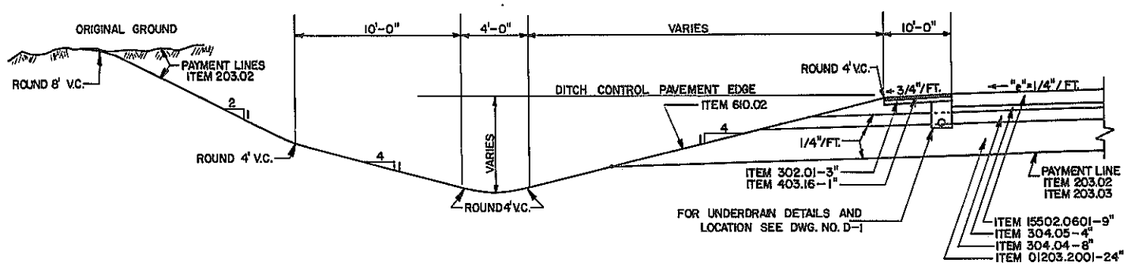
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	5	284

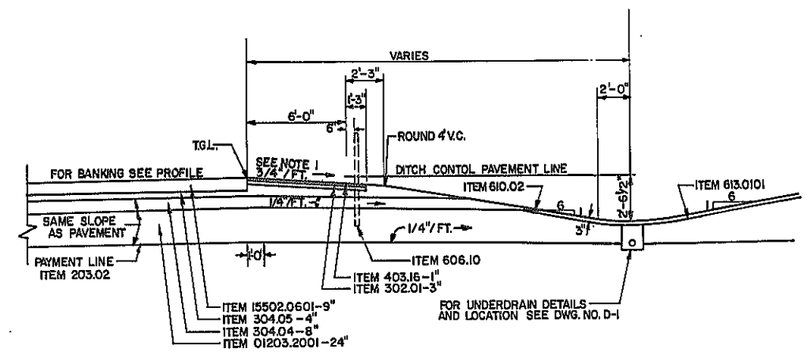
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



WESTBOUND-EARTH, CUT
NORMAL & BANKED LEFT SECTION
(READ IN DIRECTION OF STATIONS)
"WB" STA. 742+00 TO "WB" STA. 763+50



WESTBOUND-EARTH, CUT
NORMAL SECTION, NOT ADJACENT TO RAMP
(READ IN DIRECTION OF STATIONS)
"WB" STA. 760+30 TO "WB" STA. 763+50



WESTBOUND-EARTH, CUT
SECTION W/MEDIAN GUIDE RAIL
(READ IN DIRECTION OF STATIONS)
"WB" STA. 732+59 TO "WB" STA. 734+48
"WB" STA. 746+20 TO "WB" STA. 748+42
"WB" STA. 762+27 TO "WB" STA. 763+40

ITEM NO.	DESCRIPTION	PAY UNIT	ITEM NO.	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.	605.1001	UNDERDRAIN FILTER, TYPE II	C.Y.
203.03	EMBANKMENT IN PLACE	C.Y.	606.10	BOX BEAM GUIDE RAIL	L.F.
01203.2001	SELECT GRANULAR SUBGRADE (MODIFIED)	C.Y.	606.11	BOX BEAM GUIDE RAIL (SHOP CURVED)	L.F.
302.01	BITUMINOUS STABILIZED COURSE	C.Y.	606.14	BOX BEAM GUIDE RAIL-END ASSEMBLY	EA.
304.04	SUBBASE COURSE, TYPE 3	C.Y.	610.02	SEEDING	ACRE
304.05	SUBBASE COURSE, TYPE 4	C.Y.	613.0101	TOPSOIL	C.Y.
403.16	ASPHALT CONCRETE-TYPE 6, TOP COURSE	TON	502.30	LONGITUDINAL JOINT TIES	EA.
15502.0601	CEMENT CONCRETE PAVEMENT UNREINFORCED CLASS C, PROFILOGRAPH	C.Y.			
15502.2006	TRANSVERSE JOINT SUPPORTS UNREINFORCED CONCRETE	L.F.			
17605.9104	CORR. POLY. UNDERDRAIN PIPE, 4" DIAMETER	L.F.			

NOTES

1) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES. USE ROLLOVER 0.08'/FT. AT PAVEMENT SHOULDER JOINT ON THE HIGH SIDE.
2) WHEN GUIDE RAIL IS PROVIDED, STABILIZE THE SHOULDER 6" BEHIND THE GUIDE RAIL POST.
3) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTION AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

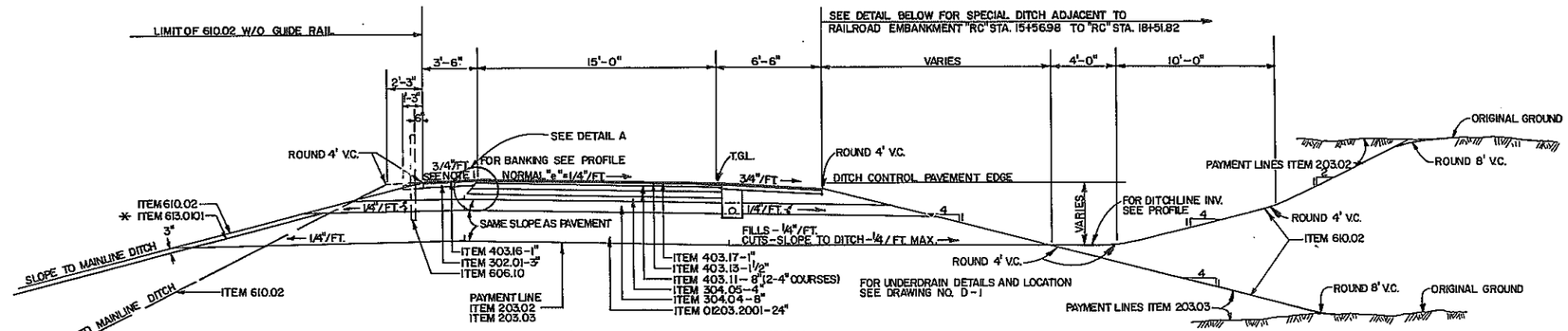
DRAWING No.	SCALE	DATE	REGION
TY-3	1/4"=1'-0"	3/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
BC 47-2 (1/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	6	284

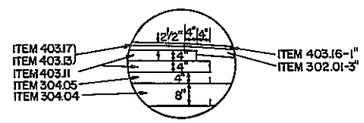
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



TYPICAL RAMP SECTION NORMAL AND BANKED RIGHT

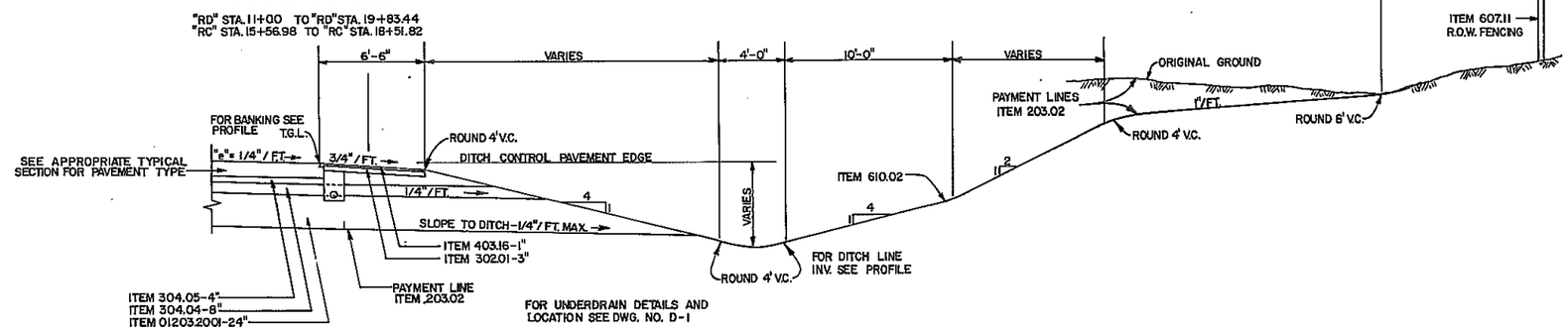
(READ IN DIRECTION OF TRAVEL)

"RD" STA. 11+00 TO "RD" STA. 19+83.44
"RC" STA. 15+56.98 TO "RC" STA. 18+51.82



DETAIL A

SCALE: 1/2" = 1'-0"

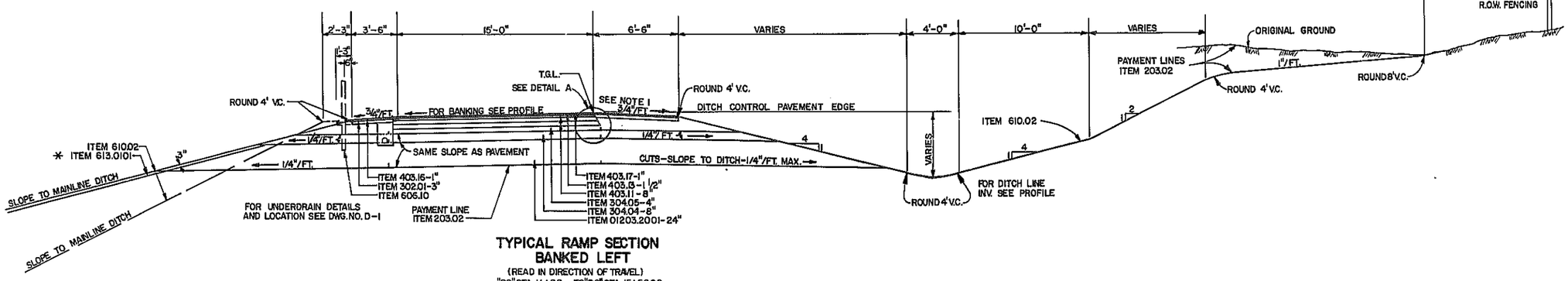


TYPICAL RAMP SECTION NORMAL AND BANKED RIGHT SPECIAL DITCH ADJACENT TO RAILROAD EMBANKMENT

(READ IN DIRECTION OF TRAVEL)

"RC" STA. 15+56.98 TO "RC" STA. 20+50

* NOTE: SEE TY-2 FOR DETAIL AND LOCATION OF SLOPE PROTECTION.



TYPICAL RAMP SECTION BANKED LEFT

(READ IN DIRECTION OF TRAVEL)

"RC" STA. 11+00 TO "RC" STA. 15+56.98

ITEM NO.	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.
203.03	EMBANKMENT IN PLACE	C.Y.
01203.2001	SELECT GRANULAR SUBGRADE (MODIFIED)	C.Y.
302.01	BITUMINOUS STABILIZED COURSE	C.Y.
304.04	SUBBASE COURSE, TYPE 3	C.Y.
304.05	SUBBASE COURSE, TYPE 4	C.Y.
403.11	ASPHALT CONCRETE - TYPE 1, BASE COURSE	TON
403.13	ASPHALT CONCRETE - TYPE 3, BINDER COURSE	TON
403.16	ASPHALT CONCRETE - TYPE 6, TOP COURSE	TON
403.17	ASPHALT CONCRETE - TYPE 6F, TOP COURSE (HIGH FRICTION)	TON

ITEM NO.	DESCRIPTION	PAY UNIT
15502.2006	TRANSVERSE JOINT SUPPORTS UNREINFORCED CONCRETE	L.F.
15502.0601	CEMENT CONCRETE PAVEMENT UNREINFORCED CLASS C, PROFILOGRAPH	C.Y.
17605.9104	CORR. POLY. UNDERDRAIN PIPE, 4" DIAMETER	L.F.
605.1001	UNDERDRAIN FILTER, TYPE II.	C.Y.
606.10	BOX BEAM GUIDE RAIL	L.F.
610.02	SEEDING	ACRE
613.0101	TOPSOIL	C.Y.
607.11	RIGHT OF WAY FENCING	L.F.

NOTES

1) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES. USE ROLLOVER 0.08'/FT. AT PAVEMENT SHOULDER JOINT ON THE HIGH SIDE.

2) WHEN GUIDE RAIL IS PROVIDED, STABILIZE THE SHOULDER 6" BEHIND THE GUIDE RAIL POST.

3) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTION AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
TY-4	1/4" = 1'-0"	4/79	1

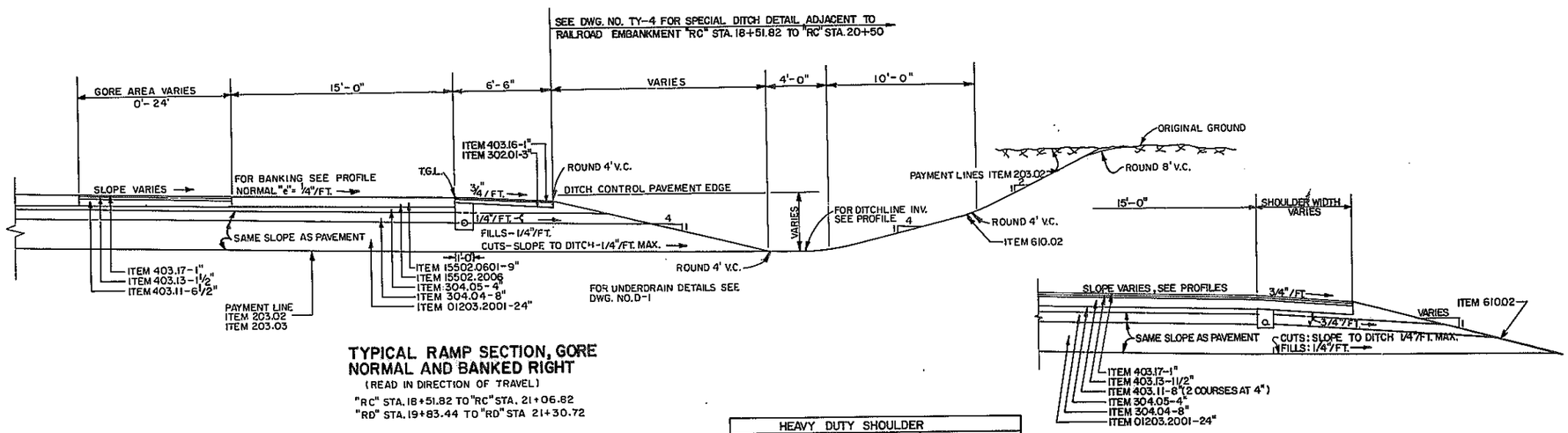
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	7	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



TYPICAL RAMP SECTION, GORE NORMAL AND BANKED RIGHT

(READ IN DIRECTION OF TRAVEL)

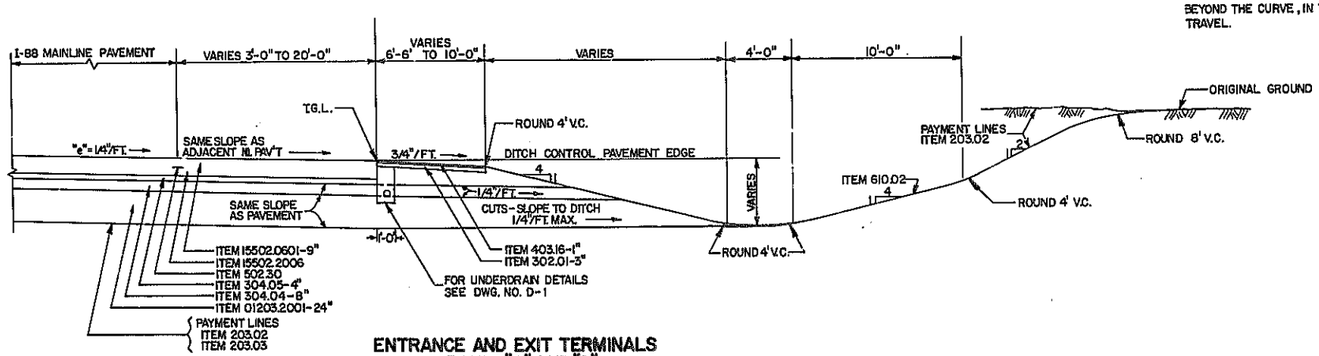
"RC" STA. 18+51.82 TO "RC" STA. 21+06.82
"RD" STA. 19+83.44 TO "RD" STA 21+30.72

HEAVY DUTY SHOULDER		
LOCATION	TYPE	SIDE IN DIRECTION OF TRAVEL
WB 760+80 TO RC 18+51.82	A	RT.
RD 19+83.44 TO EB759+15	A	RT.
RC 16+05 TO RC 11+00	B	LT.
RC 18+51.82 TO RC 16+25	B	RT.
RD 11+00 TO RD 13+95	B	RT.
RD 15+85 TO RD 19+83.44	B	RT.

NOTE: IN RAMP SHOULDER CONSTRUCTION BEGIN HEAVY DUTY SHOULDER SECTION 50 FEET BEFORE THE CURVE AND END 20 FEET BEYOND THE CURVE, IN THE DIRECTION OF TRAVEL.

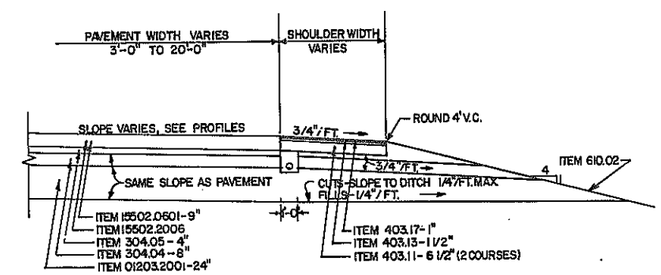
HEAVY DUTY SHOULDER DETAIL, TYPE B ADJACENT TO ASPHALT CONCRETE PAVEMENT

NOT TO SCALE



ENTRANCE AND EXIT TERMINALS RAMPS "C" AND "D" ACCELERATION & DECELERATION LANE TAPERS

"RC" STA. 21+06.82 TO "RC" STA. 23+36.82
"RD" STA. 21+30.72 TO "RD" STA. 23+44.42



HEAVY DUTY SHOULDER DETAIL, TYPE A ADJACENT TO CEMENT CONCRETE PAVEMENT (UNREINFORCED)

NOT TO SCALE

ITEM NUMBER	DESCRIPTION	PAY UNIT	ITEM NUMBER	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.			
01203.2001	SELECT GRANULAR SUBGRADE (MODIFIED)	C.Y.	15502.0601	CEMENT CONCRETE PAVEMENT UNREINFORCED CLASS C, PROFILOGRAPH	C.Y.
203.03	EMBANKMENT IN PLACE	C.Y.	15502.2006	TRANSVERSE JOINT SUPPORTS UNREINFORCED CONCRETE	L.F.
302.01	BITUMINOUS STABILIZED COURSE	C.Y.	502.30	LONGITUDINAL JOINT TIES	EA.
304.04	SUBBASE COURSE, TYPE 3	C.Y.	16502.4401	SAWING & SEALING PAVEMENT & SHOULDER JOINTS	L.F.
304.05	SUBBASE COURSE, TYPE 4	C.Y.	605.1001	UNDERDRAIN FILTER, TYPE II	C.Y.
403.11	ASPHALT CONCRETE - TYPE 1, BASE COURSE	TON	17605.9104	CORR. POLY. UNDERDRAIN PIPE, 4" DIAMETER	L.F.
403.13	ASPHALT CONCRETE - TYPE 3, BINDER COURSE	TON	610.02	SEEDING	ACRE
403.16	ASPHALT CONCRETE - TYPE 6, TOP COURSE	TON			
403.17	ASPHALT CONCRETE - TYPE 6F, TOP COURSE (HIGH FRICTION)	TON			

NOTES

1) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES. USE ROLL-OVER OF 0.08 FT./FT. AT PAVEMENT SHOULDER JOINT ON THE HIGH SIDE.
2) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTIONS AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
TY-5	1/4" = 1'-0"	2/79	1

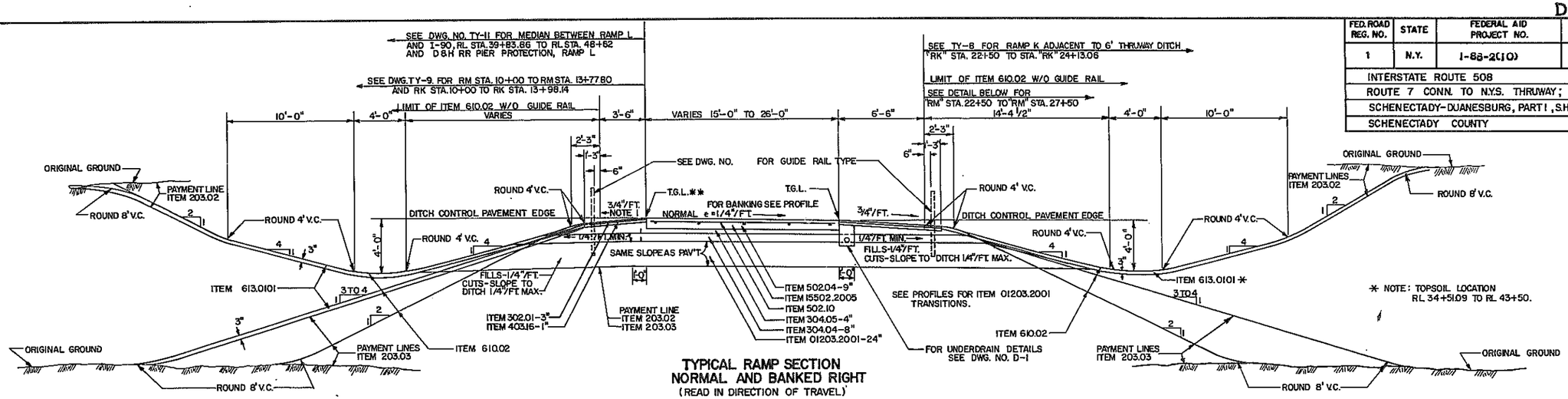
DATE ____ CHECKED BY ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ DESIGNED BY ____ IN CHARGE OF ____

BC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	8	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

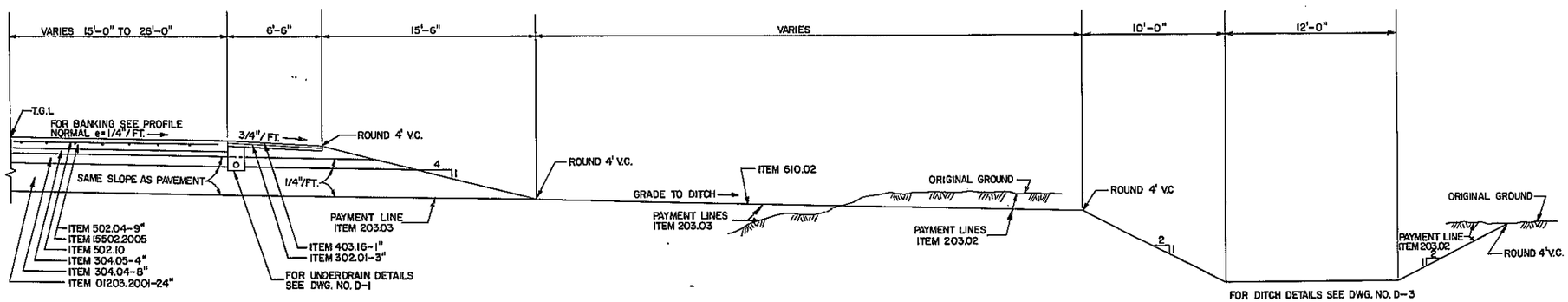


TYPICAL RAMP SECTION NORMAL AND BANKED RIGHT

(READ IN DIRECTION OF TRAVEL)

NOTE: ITEM 502.30, LONGITUDINAL JOINT TIES, REQUIRED FOR TWO LANE SECTIONS.

**"RM" STA. 10+00 TO "RM" STA. 27+50
"RK" STA. 10+00 TO "RK" STA. 13+28.43
"RK" STA. 17+60.55 TO "RK" STA. 24+13.06
"RL" STA. 34+51.09 TO "RL" STA. 50+50.00
"RP" STA. 35+27.00 TO "RP" STA. 42+00.00



NOTE: ITEM 502.30, LONGITUDINAL JOINT TIES, REQUIRED FOR TWO LANE SECTIONS.
SEE PROFILES FOR ITEM 01203.2001 TRANSITIONS.

TYPICAL RAMP SECTION ADJACENT TO THRUWAY DRAINAGE DITCH NORMAL AND BANKED RIGHT

(READ IN DIRECTION OF TRAVEL)
"RM" STA. 22+50 TO "RM" STA. 27+50

ITEM NO.	DESCRIPTION	PAY UNIT	ITEM NO.	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	502.10	METAL REINFORCEMENT FOR CONCRETE PAVEMENT (10' WIDE OR WIDER)	SY
203.03	EMBANKMENT IN PLACE	CY	15502.2005	TRANSVERSE JOINT SUPPORTS (REINFORCED PAVEMENT)	LF
01203.2001	SELECT GRANULAR SUBGRADE (MODIFIED)	CY	502.30	LONGITUDINAL JOINT TIES	EA.
302.01	BITUMINOUS STABILIZED COURSE	CY	18502.4401	SAWING AND SEALING PAVEMENT AND SHOULDER JOINTS	LF
304.04	SUBBASE COURSE, TYPE 3	CY	605.1001	UNDER DRAIN FILTER, TYPE II	CY
304.05	SUBBASE COURSE, TYPE 4	CY	17605.9104	CORR. POLY UNDERDRAIN PIPE, 4" DIAMETER	LF
403.11	ASPHALT CONCRETE, TYPE 1 BASE COURSE	TON	610.02	SEEDING	LF
403.13	ASPHALT CONCRETE, TYPE 3 BINDER COURSE	TON	613.0101	TOPSOIL	ACRE
403.16	ASPHALT CONCRETE, TYPE 6 TOP COURSE	TON			
502.04	CEMENT CONCRETE PAVEMENT, REINFORCED CLASS C	CY			

NOTES

1) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES. USE ROLLOVER 0.08'/FT. AT PAVEMENT SHOULDER JOINT.
2) WHEN GUIDE RAIL IS PROVIDED, STABILIZE THE SHOULDER 6" BEHIND THE GUIDE RAIL POST.
3) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTION AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
TY-6	1/4"=1'-0"	2/79	1

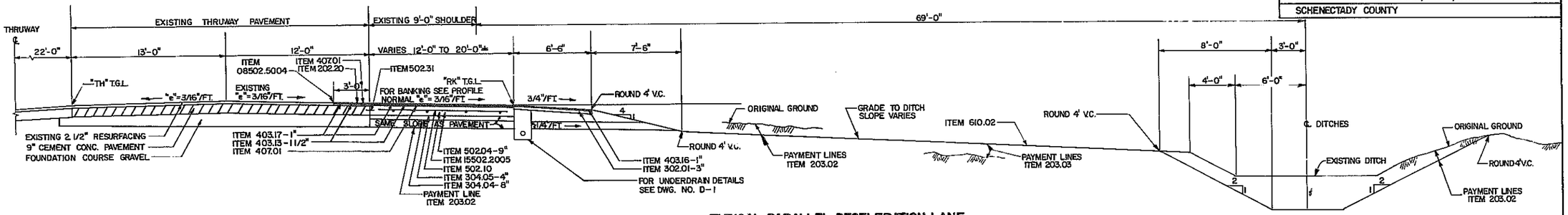
DATE ___ CHECKED BY ___ DRAFTED BY ___ CHECKED BY ___ ESTIMATED BY ___ CHECKED BY ___ DESIGNED BY ___ IN CHARGE OF ___

HC 47-2 (5/76)

D96243

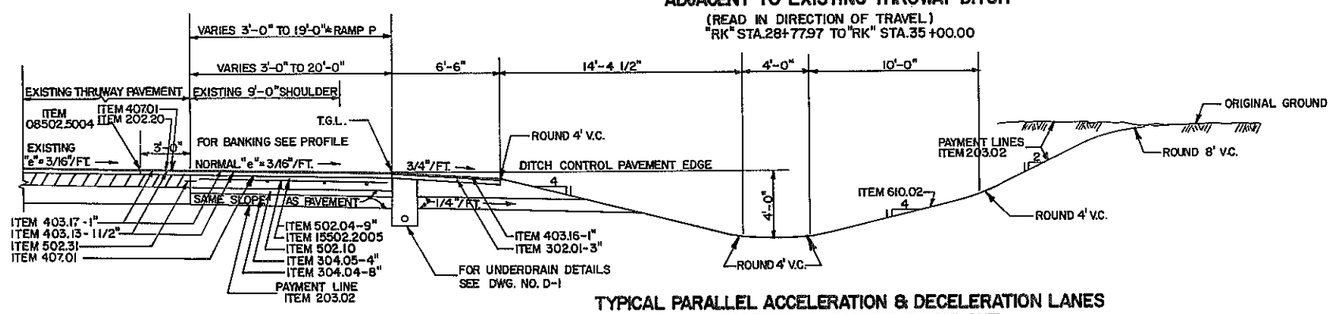
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	9	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



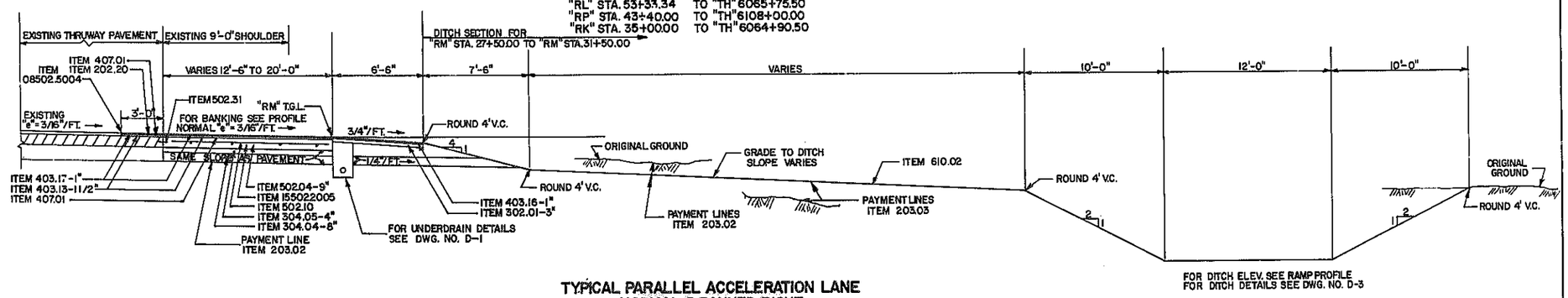
TYPICAL PARALLEL DECELERATION LANE
RAMP "K" NORMAL & BANKED RIGHT
ADJACENT TO EXISTING THRUWAY DITCH

(READ IN DIRECTION OF TRAVEL)
"RK" STA. 28+77.97 TO "RK" STA. 35+00.00



TYPICAL PARALLEL ACCELERATION & DECELERATION LANES
NORMAL & BANKED RIGHT, CUT

(READ IN DIRECTION OF TRAVEL)
"RM" STA. 31+50.00 TO "TH" 6110+00.00
"RL" STA. 53+33.34 TO "TH" 6065+75.50
"RP" STA. 43+40.00 TO "TH" 6108+00.00
"RK" STA. 35+00.00 TO "TH" 6064+90.50



TYPICAL PARALLEL ACCELERATION LANE
NORMAL & BANKED RIGHT
ADJACENT TO RELOCATED THRUWAY DITCH

(READ IN DIRECTION OF TRAVEL)
"RM" STA. 29+35.79 TO "RM" STA. 31+50

ITEM NO.	DESCRIPTION	PAY UNIT
202.20	REMOVING OLD BITUMINOUS CONCRETE OVERLAY	S.Y.
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.
203.03	EMBANKMENT IN PLACE	C.Y.
302.01	BITUMINOUS STABILIZED COURSE	C.Y.
304.04	SUBBASE COURSE, TYPE 3	C.Y.
304.05	SUBBASE COURSE, TYPE 4	C.Y.
403.13	ASPHALT CONCRETE - TYPE 3, BINDER COURSE	TON
403.16	ASPHALT CONCRETE - TYPE 6, TOP COURSE	TON
403.17	ASPHALT CONCRETE - TYPE 6F, TOP COURSE (HIGH FRICTION)	TON
502.04	CEMENT CONCRETE PAVEMENT, REINFORCED CLASS C	C.Y.

ITEM NO.	DESCRIPTION	PAY UNIT
18502.4401	SAWING AND SEALING PAVEMENT AND SHOULDER JOINTS	L.F.
407.01	TACK COAT EMULSIFIED ASPHALT	GAL.
502.10	METAL REINFORCEMENT FOR CONCRETE PAVEMENT (10' WIDE OR WIDER)	S.Y.
15502.2005	TRANSVERSE JOINT SUPPORTS (REINFORCED PAVEMENT)	L.F.
502.31	LONGITUDINAL JOINT TIES - EXPANSION TYPE	EA.
08502.5004	SAW CUTTING ASPHALT PAVEMENT, CONCRETE PAVEMENT AND ASPHALT OVERLAY ON CONCRETE PAVEMENT	L.F.
605.1001	UNDERDRAIN FILTER, TYPE II	C.Y.
17605.9104	CORR. POLY. UNDERDRAIN PIPE, 4" DIAMETER	L.F.
610.02	SEEDING	ACRE

NOTES

1) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES. USE ROLLOVER 0.08 AT PAVEMENT SHOULDER JOINT.
2) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTION AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

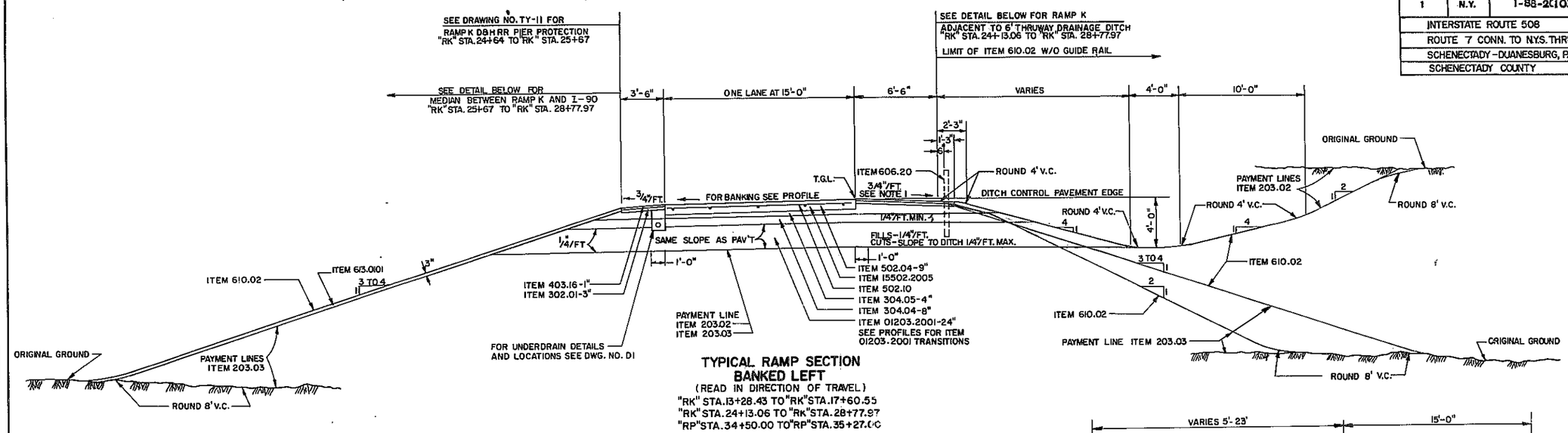
DRAWING No.	SCALE	DATE	REGION
TY-7	1/4"=1'-0"	2/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

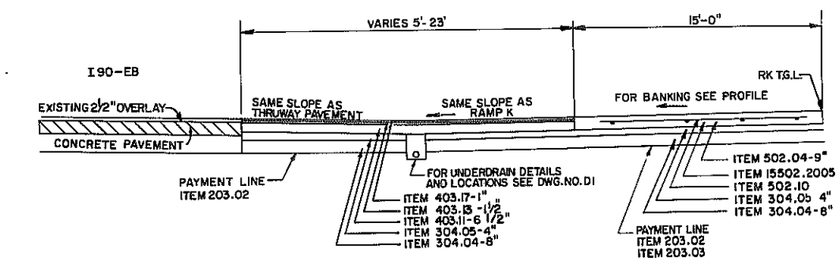
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	10	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



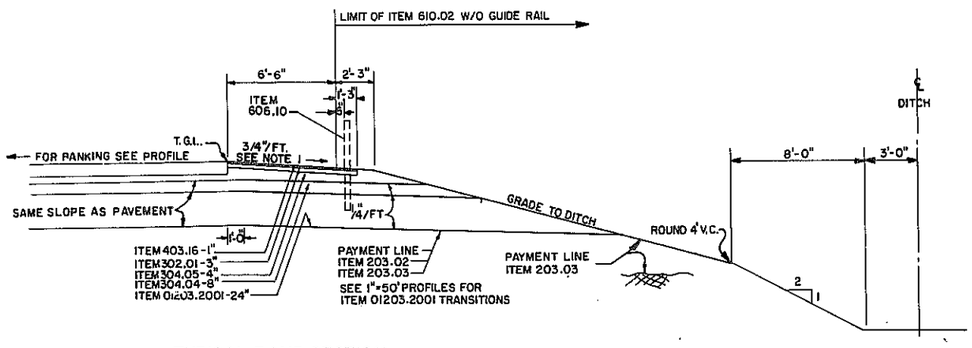
TYPICAL RAMP SECTION BANKED LEFT

(READ IN DIRECTION OF TRAVEL)
"RK" STA. 13+28.43 TO "RK" STA. 17+60.55
"RK" STA. 24+13.06 TO "RK" STA. 28+77.97
"RP" STA. 34+50.00 TO "RP" STA. 35+27.00



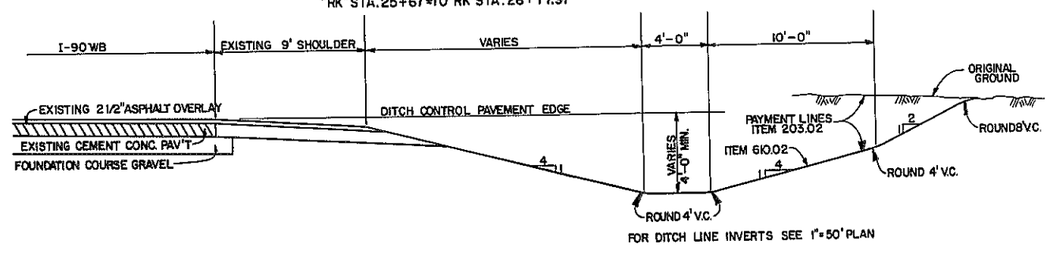
TYPICAL RAMP SECTION MEDIAN BETWEEN RAMP K AND I-90

(READ IN DIRECTION OF TRAVEL)
"RK" STA. 25+67 TO "RK" STA. 28+77.97



TYPICAL RAMP SECTION RAMP K, BANKED LEFT OR RIGHT ADJACENT TO 6' THRUWAY DITCH

(READ IN DIRECTION OF TRAVEL)
"RK" STA. 22+50 TO "RK" STA. 28+77.97



FOR DITCH LINE INVERTS SEE 1"=50' PLAN

TYPICAL SECTION, CUT ADJACENT TO EXISTING I-90 PAVEMENT

(READ IN DIRECTION OF STATIONING)
"TH" STA. 6090+00, LT. TO "TH" STA. 6095+00, LT.

ITEM NO.	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.
203.03	EMBANKMENT IN PLACE	C.Y.
01203.2001	SELECT GRANULAR SUBGRADE (MODIFIED)	C.Y.
302.01	BITUMINOUS STABILIZED COURSE	C.Y.
304.04	SUBBASE COURSE, TYPE 3	C.Y.
304.05	SUBBASE COURSE, TYPE 4	C.Y.
403.11	ASPHALT CONCRETE, TYPE 1 BASE COURSE	TON
403.13	ASPHALT CONCRETE, TYPE 3 BINDER COURSE	TON
403.16	ASPHALT CONCRETE, TYPE 6 TOP COURSE	TON
403.17	ASPHALT CONCRETE, TYPE 6F TOP COURSE (HIGH FRICTION)	TON

ITEM NO.	DESCRIPTION	PAY UNIT
502.04	CEMENT CONCRETE PAVEMENT, REINFORCED CLASS C	C.Y.
502.10	METAL REINFORCEMENT FOR CONCRETE PAVEMENT (10' WIDE OR WIDER)	S.Y.
15502.2005	TRANSVERSE JOINT SUPPORTS REINFORCED PAVEMENT	L.F.
18502.4401	SAWING AND SEALING PAVEMENT AND SHOULDER JOINTS	L.F.
605.1001	UNDERDRAIN FILTER, TYPE II	C.Y.
17605.9104	CORR. POLY. UNDERDRAIN PIPE, 4" DIAMETER	L.F.
606.10	BOX BEAM GUIDE RAILING	L.F.
606.20	CORR. BEAM GUIDE RAILING	L.F.
610.02	SEEDING	ACRE
613.0101	TOPSOIL	

NOTES

1) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES. USE ROLLOVER 0.08'/FT. AT PAVEMENT SHOULDER JOINT.

2) WHEN GUIDE RAIL IS PROVIDED, STABILIZE THE SHOULDER 6" BEHIND THE GUIDE RAIL POST.

3) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTION AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
TY-8	1/4"=1'-0"	4/79	1

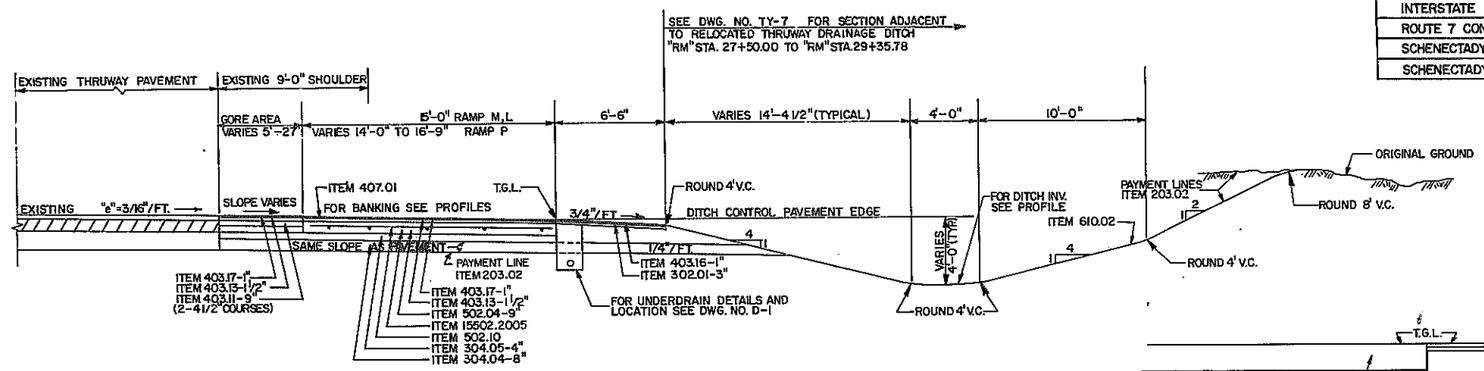
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

D96243

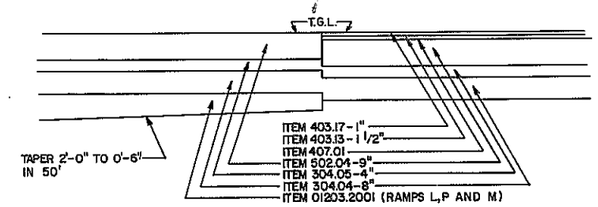
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	11	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



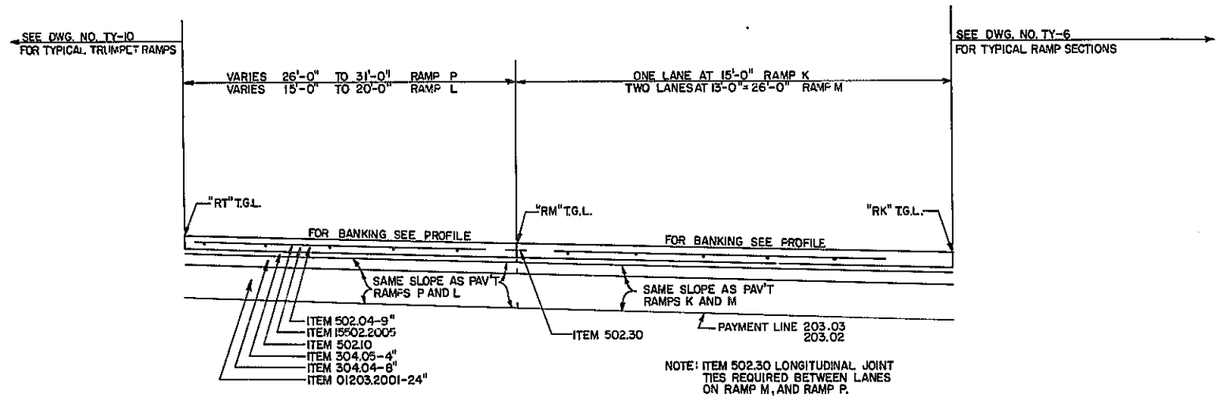
TYPICAL RAMP SECTION I-90, CUT NORMAL AND BANKED RIGHT

(READ IN DIRECTION OF TRAVEL)
"RM" STA. 27+50.00 TO "RM" STA. 29+35.79
"RP" STA. 42+00 TO "RP" STA. 43+40
"RL" STA. 50+50.00 TO "RL" STA. 53+33.34



TRANSITION DETAIL REINFORCED CONCRETE PAVEMENT WITH AND WITHOUT ASPHALT CONCRETE OVERLAY

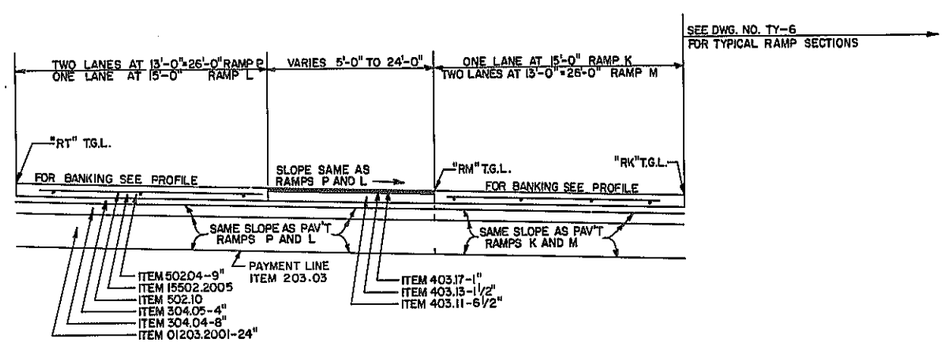
NO SCALE
"RK" STA. 28+77.97 , "RL" STA. 50+50.00
"RM" STA. 27+50.00 , "RP" STA. 42+00.00



NOTE: ITEM 502.30 LONGITUDINAL JOINT TIES REQUIRED BETWEEN LANES ON RAMP M, AND RAMP P.

TYPICAL RAMP SECTIONS ENTRANCE & EXIT TERMINALS

(READ IN DIRECTION OF TRAVEL)
"RM" STA. 10+00.00 TO "RM" STA. 12+42.30
"RK" STA. 10+00.00 TO "RK" STA. 12+83.90



TYPICAL RAMP SECTIONS ENTRANCE & EXIT GORES

(READ IN DIRECTION OF TRAVEL)
"RM" STA. 12+42.30 TO "RM" STA. 13+77.80
"RK" STA. 12+83.90 TO "RK" STA. 13+98.14

ITEM NUMBER	DESCRIPTION	PAY UNIT
18502.4401	SAWING AND SEALING PAVEMENT AND SHOULDER JOINTS	L.F.
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.
01203.2001	SELECT GRANULAR SUBGRADE (MODIFIED)	C.Y.
302.01	BITUMINOUS STABILIZED COURSE	C.Y.
304.04	SUBBASE COURSE, TYPE 3	C.Y.
304.05	SUBBASE COURSE, TYPE 4	C.Y.
403.11	ASPHALT CONCRETE – TYPE 1, BASE COURSE	TON
403.13	ASPHALT CONCRETE – TYPE 3, BINDER COURSE	TON
403.16	ASPHALT CONCRETE – TYPE 6, TOP COURSE	TON
403.17	ASPHALT CONCRETE – TYPE 6F, TOP COURSE (HIGH FRICTION)	TON

ITEM NUMBER	DESCRIPTION	PAY UNIT
407.01	TACK COAT EMULSIFIED ASPHALT	GAL.
502.04	CEMENT CONCRETE PAVEMENT, REINFORCED CLASS C	C.Y.
502.10	METAL REINFORCEMENT FOR CONCRETE PAVEMENT (10' WIDE OR WIDER)	S.Y.
15502.2005	TRANSVERSE JOINT SUPPORTS (REINFORCED PAVEMENT)	L.F.
502.30	LONGITUDINAL JOINT TIES	E.A.
610.02	SEEDING	ACRE
203.03	EMBANKMENT IN PLACE	C.Y.

NOTES
1) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES. USE ROLLOVER 0.06'/FT AT PAVEMENT SHOULDER JOINT.
2) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTION AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
TY-9	1/4" = 1'-0"	2/79	REGION 1

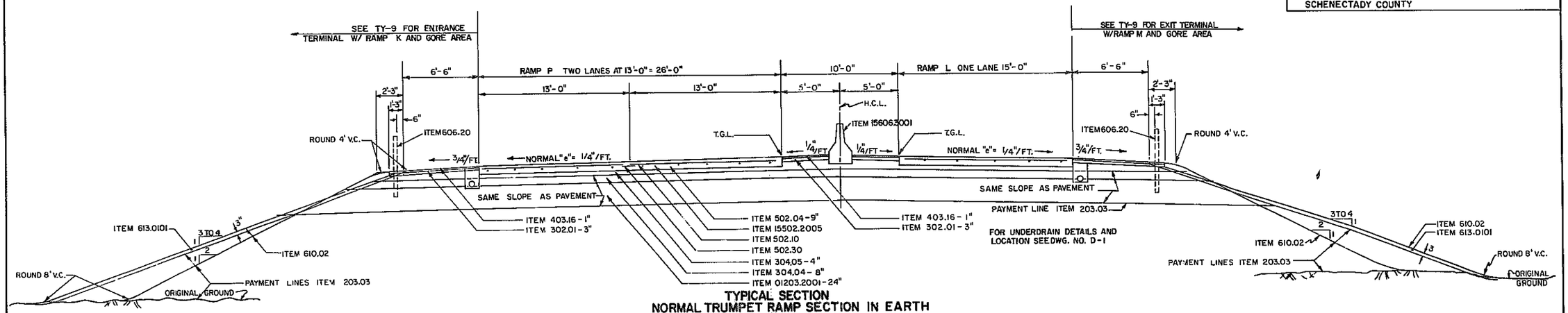
DATE ___ CHECKED BY ___ DRAFTED BY ___ CHECKED BY ___ ESTIMATED BY ___ CHECKED BY ___ DESIGNED BY ___ IN CHARGE OF ___

HC 47-2 (5/76)

D96243

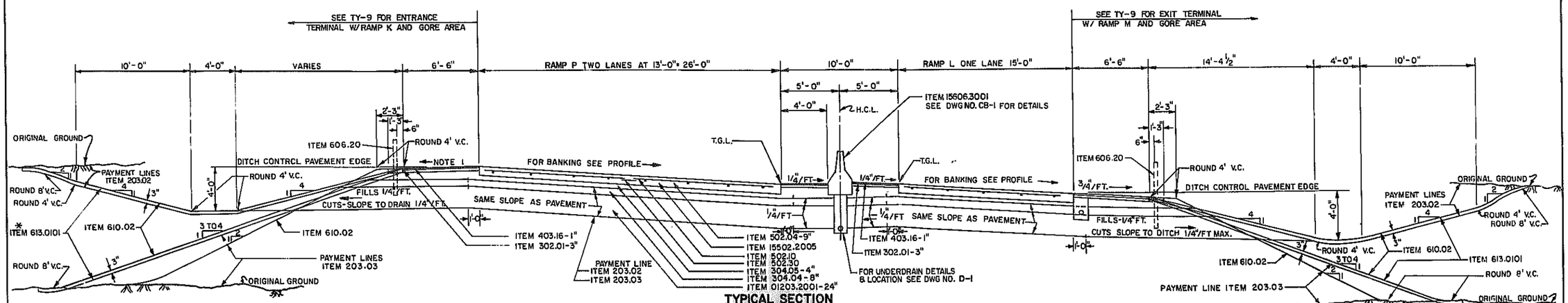
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	12	284

INTERSTATE ROUTE 508
ROUTE 7 CONN TO NYS THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



TYPICAL SECTION
NORMAL TRUMPET RAMP SECTION IN EARTH

(READ IN DIRECTION OF STATIONING)
"RT" STA. 101+00.00 TO "RT" STA. 10+21.30
"RT" STA. 17+54.96 TO "RT" STA. 24+85.14



* NOTE: TOPSOIL LOCATATION RT 14+00 TO RT 17+54.96

TYPICAL SECTION
TRUMPET RAMPS BANKED RIGHT SECTION IN EARTH

(READ IN DIRECTION OF STATIONING)
"RT" STA. 10+21.30 TO "RT" STA. 17+54.96
"RT" STA. 24+85.14 TO "RT" STA. 34+50.00

ITEM NO.	DESCRIPTION	PAY UNIT	ITEM NO.	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION & DISPOSAL	CY	15502.2005	TRANSVERSE JOINT SUPPORTS (REINFORCED PAVEMENT)	LF
203.03	EMBANKMENT IN PLACE	CY	502.30	LONGITUDINAL JOINT TIES	EA
01203.2001	SELECT GRANULAR SUBGRADE (MODIFIED)	CY	16502.4401	SAWING AND SEALING PAVEMENT AND SHOULDER JOINTS	LF
206.02	TRENCH & CULVERT EXCAVATION	CY	605.1001	UNDERDRAIN FILTER, TYPE II	CY
302.01	BITUMINOUS STABILIZED COURSE	CY	17605.9104	CORR. POLY. UNDERDRAIN PIPE OR TUBING, 4" DIAMETER	LF
304.04	SUBBASE COURSE, TYPE 3	CY	606.20	CORRUGATED BEAM GUIDE RAILING	LF
304.05	SUBBASE COURSE, TYPE 4	CY	606.22	ANCHORAGE UNITS FOR CORR. BEAM GUIDE RAILING	EA
403.16	ASPHALT CONCRETE-TYPE 6 TOP COURSE	TON	15606.3001	CONCRETE MEDIAN BARRIER (TYPE A)	LF
502.04	CEMENT CONCRETE PAVEMENT REINFORCED CLASS C	CY	610.02	SEEDING	ACRE
502.10	METAL REINFORCEMENT FOR CONCRETE PAVEMENT (10' WIDE OR WIDER)	SY	613.0101	TOPSOIL	CY

NOTES

1. WHEN SUPERELEVATED GREATER THAN 1/4"/FT., SLOPE VARIES USE ROLLOVER OF 0.08 AT PAVEMENT SHOULDER JOINT.
2. WHEN GUIDE RAIL IS PROVIDED, STABILIZE THE SHOULDER 6" BEHIND THE GUIDE RAIL POST.
3. THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTION AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

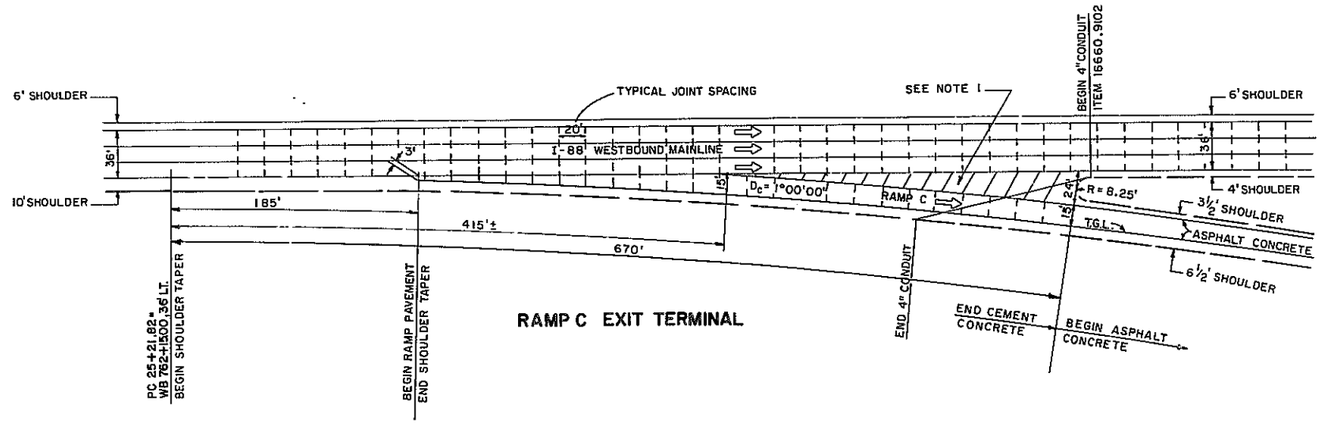
DRAWING No.	SCALE	DATE	REGION
TY-10	1/4" = 1'-0"	3/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

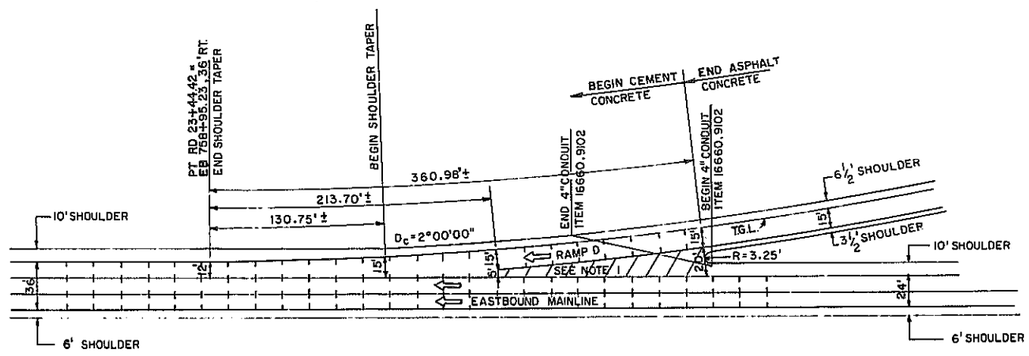
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	13	284

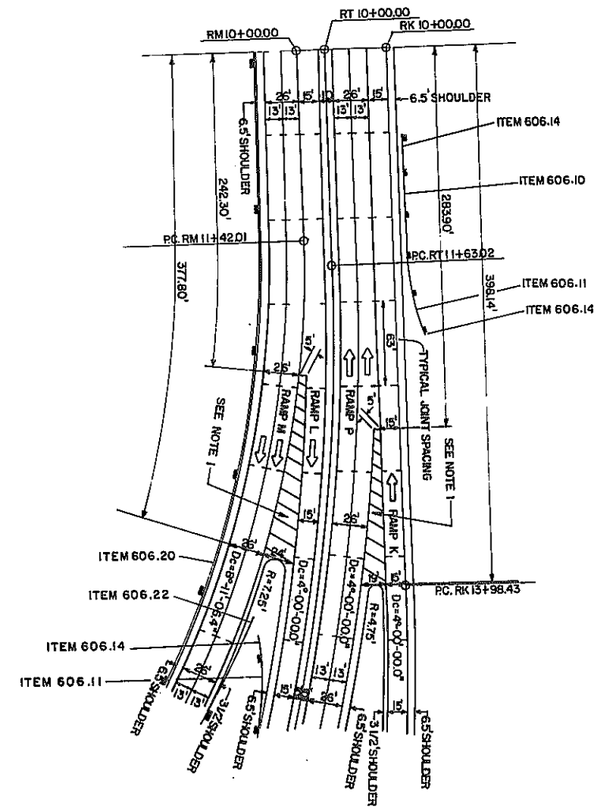
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



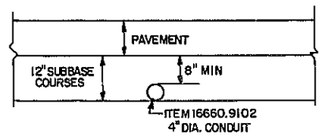
RAMP C EXIT TERMINAL



RAMP D ENTRANCE TERMINAL



TRUMPET RAMP TERMINAL



DETAIL-CONDUIT UNDER RAMPS FOR FUTURE EMERGENCY PHONE INSTALLATION
(NOT TO SCALE)

NOTE: ENDS SHALL EXTEND 2" ± BEYOND EDGE OF SHOULDER AND SHALL BE FITTED WITH WATERPROOF CAPS, THE COST OF THE CAPS SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 16660.9102.

NOTES: 1) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES. USE ROLLOVER OF 0.08 FT./FT. AT PAVEMENT SHOULDER JOINT.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

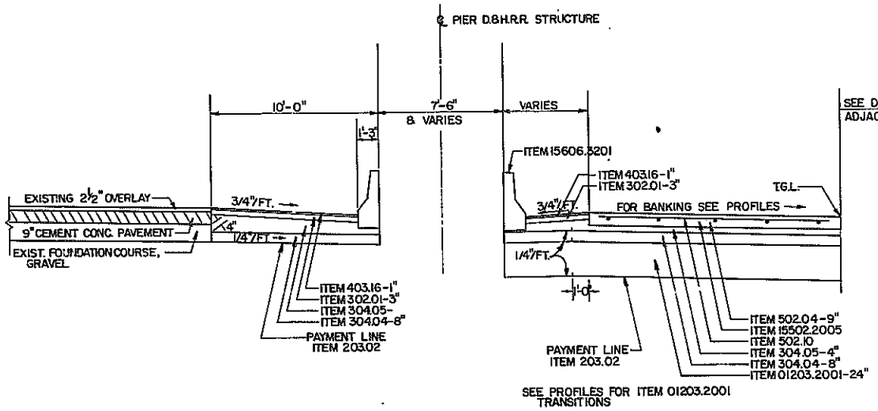
DRAWING No.	SCALE	DATE	REGION
TY-10A	1"=50'	4/79	REGION 1

DATE
CHECKED BY
CHECKED BY
DRAFTED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

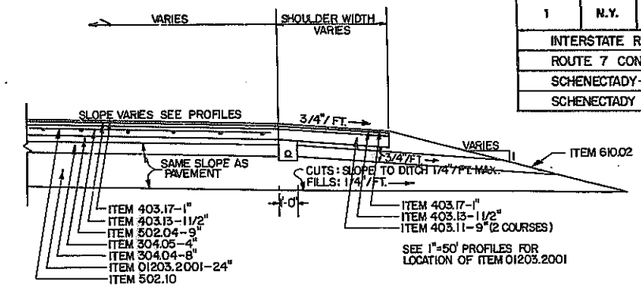
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	14	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



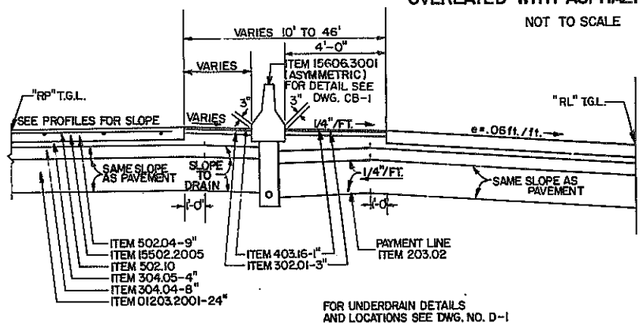
TYPICAL SECTION D.&H.R.R. PIER PROTECTION

(READ IN DIRECTION OF STATIONING)
"RL" STA. 48+60± TO "RL" STA. 50+50±
"RK" STA. 24+64± TO "RK" STA. 25+67±



HEAVY DUTY SHOULDER DETAIL, TYPE C ADJACENT TO REINFORCED CONCRETE PAVEMENT OVERLAYED WITH ASPHALT CONCRETE PAVEMENT

NOT TO SCALE

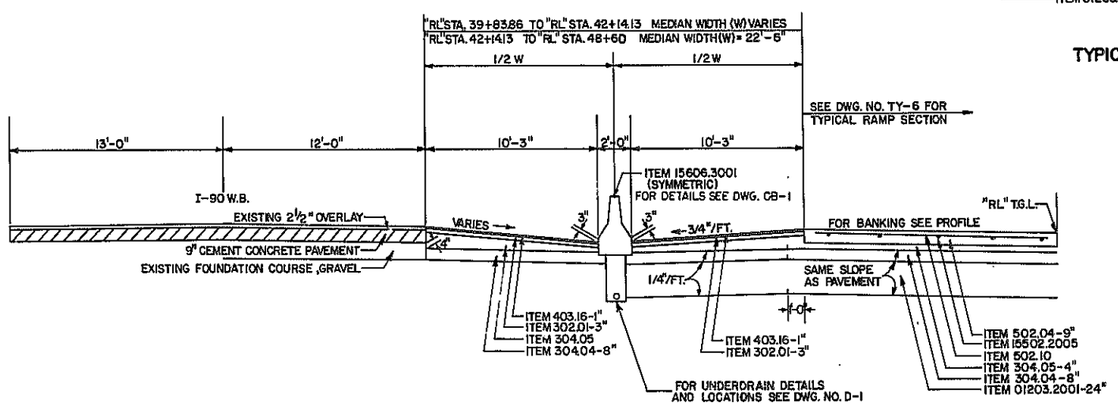


TYPICAL SECTION GORE BETWEEN RAMPS P & L

(READ IN DIRECTION OF STATIONING)
"RL" STA. 34+51.09 TO "RL" STA. 36+00

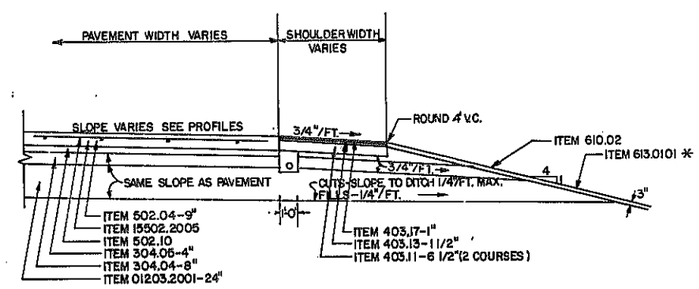
HEAVY DUTY SHOULDER			
LOCATION		TYPE	SIDE IN DIRECTION OF TRAVEL
RM 10+92	TO RM 23+73	D	RT.
RK 13+98	TO RK 17+41	D	LT.
RK 19+49	TO RK 23+86	D	RT.
RK 29+60	TO RK 31+16	C	RT.
RP 36+51	TO RP 42+18.72	C	RT.
RP 42+18.72	TO RP 51+41	D	RT.
RL 34+51	TO RL 49+29	D	RT.
RL 53+25	TO RL 55+10	C	RT.
RT 14+00	TO RT 16+33	D	RT.
RT 25+50	TO RT 34+50	D	RT.

NOTE: IN RAMP SHOULDER CONSTRUCTION BEGIN HEAVY DUTY SHOULDER SECTION 50 FEET BEFORE THE CURVE AND END 20 FEET BEYOND THE CURVE, IN THE DIRECTION OF TRAVEL.



TYPICAL SECTION MEDIAN BETWEEN RAMP L & I-90

(READ IN DIRECTION OF STATIONING)
"RL" STA. 39+83.86 TO "RL" STA. 48+60±



* NOTE: TOPSOIL LOCATIONS
RK 13+98 TO RK 17+41
RL 34+51 TO RL 49+29
RT 14+00 TO RT 16+33
RT 25+50 TO RT 34+50

HEAVY DUTY SHOULDER DETAIL, TYPE D ADJACENT TO CEMENT CONCRETE PAVEMENT (REINFORCED)

NOT TO SCALE

ITEM NO.	DESCRIPTION	PAY UNIT	ITEM NO.	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.	502.04	CEMENT CONCRETE PAVEMENT, REINFORCED, CLASS C	C.Y.
01203.2001	SELECT GRANULAR SUBGRADE (MODIFIED)	C.Y.	502.10	METAL REINFORCEMENT FOR CONCRETE PAVEMENT (10' WIDE OR WIDER)	S.Y.
302.01	BITUMINOUS STABILIZED COURSE	C.Y.	15502.2005	TRANSVERSE JOINT SUPPORTS REINFORCED PAVEMENT	L.F.
304.04	SUBBASE COURSE, TYPE 3	C.Y.	18502.4401	SAWING & SEALING PAVEMENT & SHOULDER JOINTS	L.F.
304.05	SUBBASE COURSE, TYPE 4	C.Y.	605.1001	UNDERDRAIN FILTER, TYPE II	C.Y.
403.11	ASPHALT CONCRETE - TYPE 1, BASE COURSE	TON	17605.9104	CORR. POLY. UNDERDRAIN PIPE, 4" DIAMETER	L.F.
403.13	ASPHALT CONCRETE - TYPE 3, BINDER COURSE	TON	15606.3001	CONCRETE MEDIAN BARRIER (TYPE A)	L.F.
403.16	ASPHALT CONCRETE - TYPE 6, TOP COURSE	TON	15606.3201	HALF SECTION. CONCRETE MEDIAN BARRIER	L.F.
403.17	ASPHALT CONCRETE - TYPE 6F, TOP COURSE (HIGH FRICTION)	TON			
		S.Y.	613.0101	TOPSOIL	ACRE

NOTES

1) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES. USE ROLL-OVER OF 0.08 FT./FT. AT PAVEMENT SHOULDER JOINT.

2) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTIONS AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

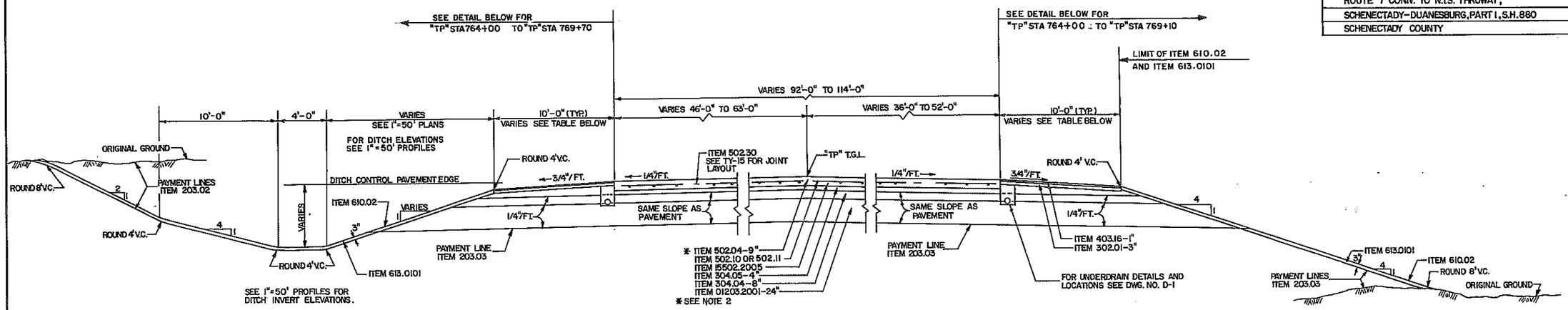
DRAWING No.	SCALE	DATE	REGION
TY-11	1/4"=1'-0"	3/79	REGION 1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF

D96243

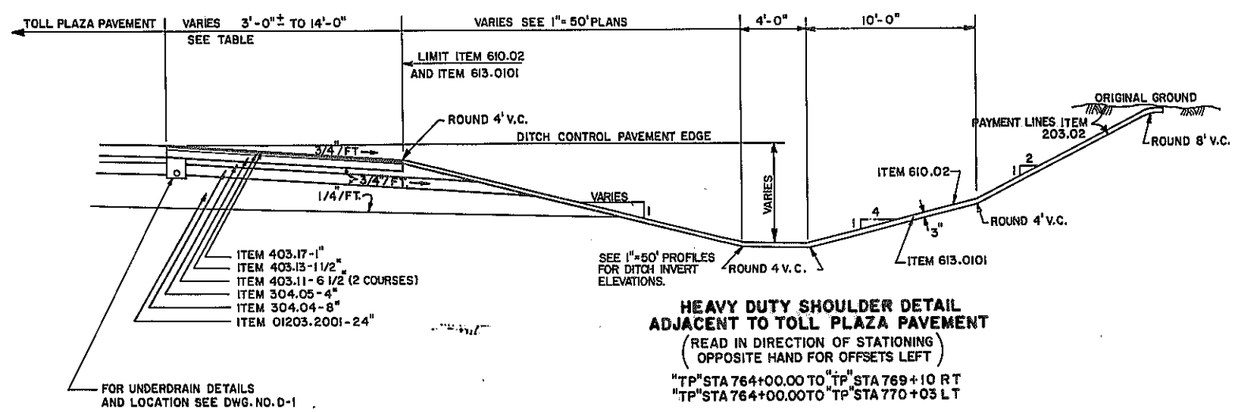
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1-88-2(10)	15	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



TOLL PLAZA SECTION WITHOUT ISLANDS

(READ IN DIRECTION OF STATIONING)
"TP" STA 763+88.32 TO "TP" STA 770+03.00
"TP" STA 770+74.00 TO "TP" STA 775+88.32



HEAVY DUTY SHOULDER DETAIL ADJACENT TO TOLL PLAZA PAVEMENT

(READ IN DIRECTION OF STATIONING OPPOSITE HAND FOR OFFSETS LEFT)
"TP" STA 764+00.00 TO "TP" STA 769+10 RT
"TP" STA 764+00.00 TO "TP" STA 770+03 LT

SHOULDER WIDTH			
STATION	TO STATION	SIDE	WIDTH
"TP" 764+00	TO "TP" 764+25	RT	10' - 14'
"TP" 764+25	TO "TP" 769+10	RT	14'
"TP" 764+00	TO "TP" 764+25	LT	10' - 14'
"TP" 764+25	TO "TP" 769+53	LT	14'
"TP" 769+53	TO "TP" 770+03	LT	14' - 3'

ITEM NO.	DESCRIPTION	PAY UNIT	ITEM NO.	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.	502.04	CEMENT CONCRETE PAVEMENT, REINFORCED CLASS C	C.Y.
203.03	EMBANKMENT IN PLACE	C.Y.	04502.0401	EMERY CONCRETE SURFACE COURSE	C.Y.
01203.2001	SELECT GRANULAR SUBGRADE (MODIFIED)	C.Y.	502.10	METAL REINFORCEMENT FOR CONCRETE PAVEMENT (10' WIDE OR WIDER)	S.Y.
302.01	BITUMINOUS STABILIZED COURSE	C.Y.	502.11	METAL REINFORCEMENT FOR CONCRETE PAVEMENT (LESS THAN 10' WIDE)	S.Y.
304.04	SUBBASE COURSE, TYPE 3	C.Y.	502.30	LONGITUDINAL JOINT TIES	EA.
304.05	SUBBASE COURSE, TYPE 4	C.Y.	18502.4401	SAWING AND SEALING PAVEMENT AND SHOULDER JOINTS	L.F.
403.11	ASPHALT CONCRETE, TYPE 1 BASE COURSE	TON	605.1001	UNDERDRAIN FILTER, TYPE II	C.Y.
403.13	ASPHALT CONCRETE, TYPE 3 BINDER COURSE	TON	17605.9104	CORR. POLY. UNDERDRAIN PIPE, 4" DIAMETER	L.F.
403.17	ASPHALT CONCRETE, TYPE 6F TOP COURSE (HIGH FRICTION)	TON	610.02	SEEDING	ACRE
15502.2005	TRANSVERSE JOINT SUPPORTS (REINFORCED PAVEMENT)	EA.	613.0101	TOPSOIL	

NOTES

1) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTION AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.
2) TWO COURSE CEMENT CONCRETE PAVEMENT CONSISTING OF ITEM 502.04 (8 1/4") AND ITEM 04502.0401 (3/4") SHALL BE USED BETWEEN "TP" 768+76.32 TO "TP" 772+00.32.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
TY-12	1/4"=1'-0"	4/79	REGION 1

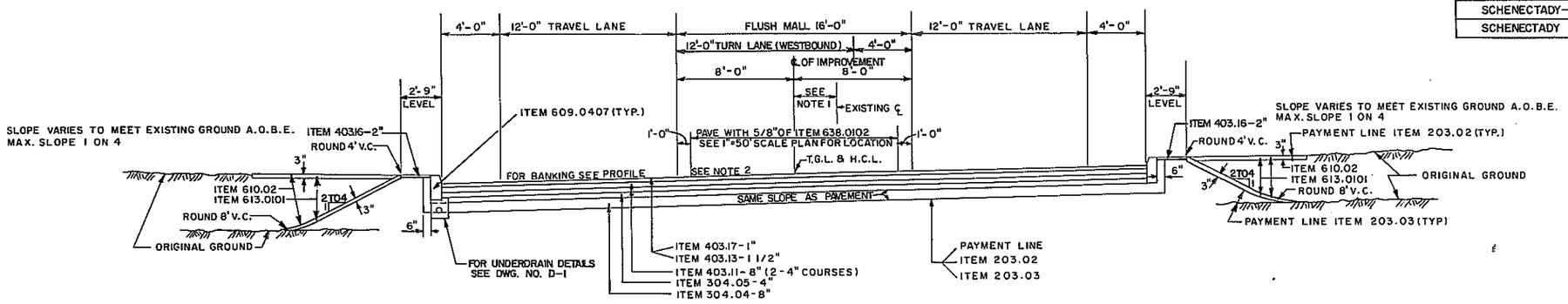
DATE ___ CHECKED BY ___ DRAFTED BY ___ CHECKED BY ___ ESTIMATED BY ___ CHECKED BY ___ DESIGNED BY ___ IN CHARGE OF ___

FE 47-2 (5/76)

D96243

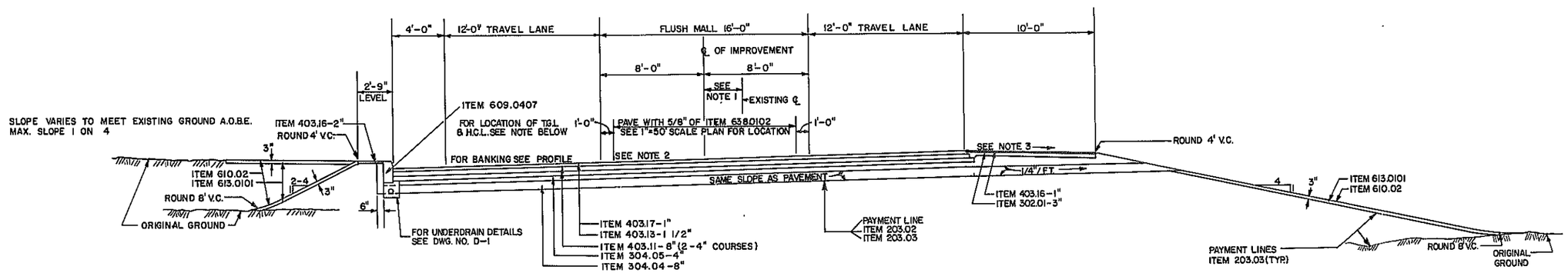
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	16	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



ROUTE 7-48' BANKED LEFT CURB SECTION CUT-FILL WITH TURNING LANE

(READ IN DIRECTION OF STATIONING)
"SB" STA. 53+00 TO "SB" STA. 54+50 - TRANSITION FROM 44' BANKED LEFT CURB SECTION TO 48' BANKED LEFT CURB SECTION.
"SB" STA. 54+50 TO "SB" STA. 63+72.17 FOR TRANSITION FROM BANKED LEFT CURB SECTION TO 40' NORMAL SECTION SEE PROFILE.



NOTE: THE T.G.L. & H.C.L. ARE CONCURRENT FROM STA. "RS" 44+70 TO "RS" 46+42.20 = ("SB" 46+41.75) AT THE MEDIAN EDGE OF THE LEFT TRAVEL LANE (16'-0" FROM THE FACE OF THE CURB). AT STA. "RS" 46+42.20 THE H.C.L. SHIFTS 8'-0" RT. TO THE MEDIAN ℄. BETWEEN "SB" 46+41.75 AND "SB" 49+48.08 THE T.G.L. SHIFTS 8'-0" RT. BOTH THE T.G.L. AND H.C.L. ARE CONCURRENT AT THE MEDIAN ℄ FROM "SB" 49+46.08 TO THE END OF THE PROJECT.

ROUTE 7-44' BANKED LEFT SECTION-CUT, FILL

(READ IN DIRECTION OF STATIONING)
"SB" STA. 46+41.75 TO "SB" STA. 53+00 - TRANSITION FROM 44' NORMAL SECTION

ITEM NO.	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.
203.03	EMBANKMENT IN PLACE	C.Y.
302.01	BITUMINOUS STABILIZED COURSE	C.Y.
304.04	SUBBASE COURSE, TYPE 3	C.Y.
304.05	SUBBASE COURSE, TYPE 4	C.Y.
403.11	ASPHALT CONCRETE-TYPE 1, BASE COURSE	TON
403.13	ASPHALT CONCRETE-TYPE 3, BINDER COURSE	TON
403.16	ASPHALT CONCRETE-TYPE 6, TOP COURSE	TON
403.17	ASPHALT CONCRETE-TYPE 6F, TOP COURSE (HIGH FRICTION)	TON

ITEM NO.	DESCRIPTION	PAY UNIT
605.1001	UNDERDRAIN FILTER, TYPE II	C.Y.
17605.9104	CORR. POLY. UNDERDRAIN PIPE, 4" DIAMETER	L.F.
609.0407	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE CURB, TYPE BB	L.F.
610.02	SEEDING	ACRE
613.0101	TOPSOIL	C.Y.
638.0102	COLORED SYNTHETIC RESIN BINDER CONCRETE (WHITE)	TON

NOTES

1) THE OFFSET FROM THE EXISTING CENTERLINE OF PAVEMENT TO THE PROPOSED CENTERLINE OF IMPROVEMENT VARIES.
2) THE FLUSH MALL SURFACE MATERIAL TO BE PLACED 12" SHORT OF THE DETAILED MALL WIDTH TO ACCOMODATE EDGE STRIPING.
3) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES. USE ROLLOVER 0.08'/FT. AT PAVEMENT SHOULDER JOINT.
4) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTION AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.

ROUTE 7-44' AND 48' TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
TY-13	1/4"=1'-0"	2/79	1

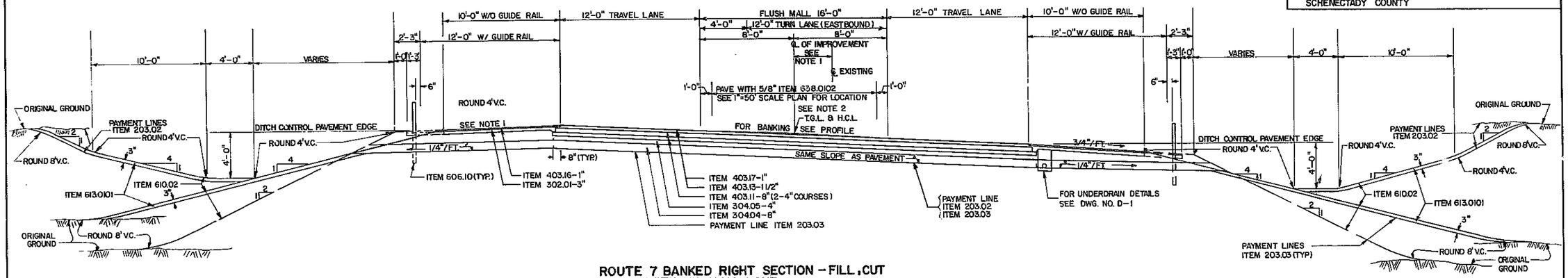
DATE ___ CHECKED BY ___ DRAFTED BY ___ CHECKED BY ___ ESTIMATED BY ___ CHECKED BY ___ DESIGNED BY ___ IN CHARGE OF ___

HE 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	17	284

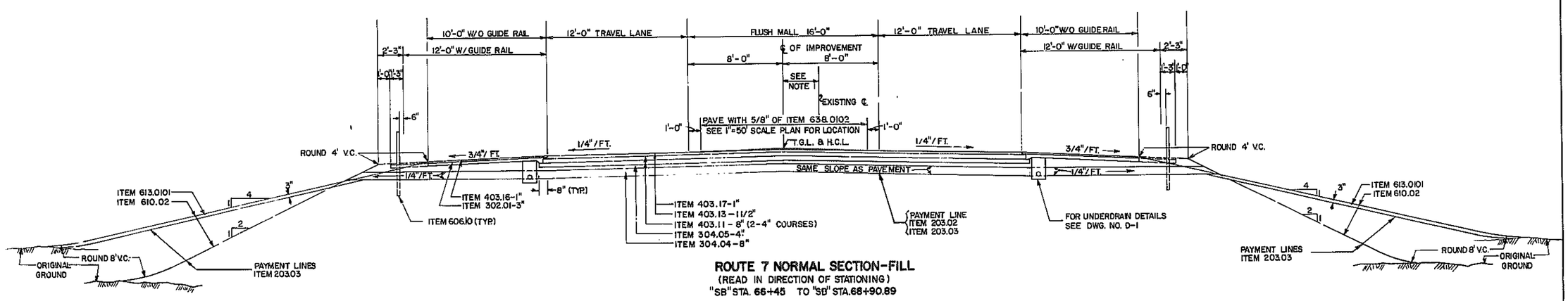
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



ROUTE 7 BANKED RIGHT SECTION - FILL, CUT WITH TURNING LANE

(READ IN DIRECTION OF STATIONING)

"SB" STA. 71+43.34 TO "SB" STA. 71+66.24
"SB" STA. 71+66.24 TO "SB" STA. 73+78.75 - STR. OVER N.Y.S. THRUWAY
"SB" STA. 73+78.75 TO "SB" STA. 85+00
"SB" STA. 85+00 TO "SB" STA. 89+00 - FROM 40' BANKED SECTION TO 26' BANKED SECTION



ROUTE 7 NORMAL SECTION-FILL

(READ IN DIRECTION OF STATIONING)

"SB" STA. 66+45 TO "SB" STA. 68+90.89

ITEM NO.	DESCRIPTION	PAY UNIT	ITEM NO.	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.			
203.03	EMBANKMENT IN PLACE	C.Y.	605.1001	UNDERDRAIN FILTER, TYPE II	C.Y.
302.01	BITUMINOUS STABILIZED COURSE	C.Y.	17605.9104	CORR. POLY. UNDERDRAIN PIPE, 4" DIAMETER	L.F.
304.04	SUBBASE COURSE, TYPE 3	C.Y.	606.10	BOX BEAM GUIDE RAILING	L.F.
304.05	SUBBASE COURSE, TYPE 4	C.Y.	609.0407	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE CURB, TYPE BB	L.F.
403.11	ASPHALT CONCRETE-TYPE 1, BASE COURSE	TON	610.02	SEEDING	ACRE
403.13	ASPHALT CONCRETE-TYPE 3, BINDER COURSE	TON	613.0101	TOPSOIL	C.Y.
403.16	ASPHALT CONCRETE-TYPE 6, TOP COURSE	TON			
403.17	ASPHALT CONCRETE-TYPE 6F, TOP COURSE (HIGH FRICTION)	TON	638.0102	COLORED SYNTHETIC RESIN BINDER CONCRETE (WHITE)	TON

NOTES

1) THE OFFSET FROM THE EXISTING CENTERLINE OF PAVEMENT TO THE PROPOSED CENTERLINE OF IMPROVEMENT VARIES.
2) THE FLUSH MALL SURFACE MATERIAL TO BE PLACED 12" SHORT OF THE DETAILED MALL WIDTH TO ACCOMODATE EDGE STRIPING.
3) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES. USE ROLLOVER 0.08/FT. AT PAVEMENT SHOULDER JOINT.
4) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTION AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.
5) WHEN GUIDE RAIL IS PROVIDED, STABILIZE THE SHOULDER 6" BEHIND THE GUIDE RAIL POST.

ROUTE 7-40' TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

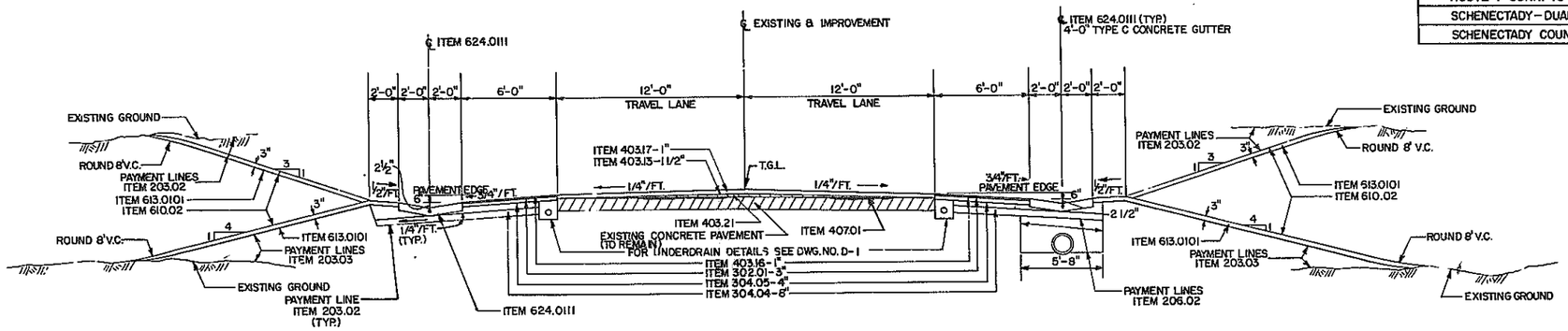
DRAWING No.	SCALE	DATE	REGION
TY-14	1/4"=1'-0"	2/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

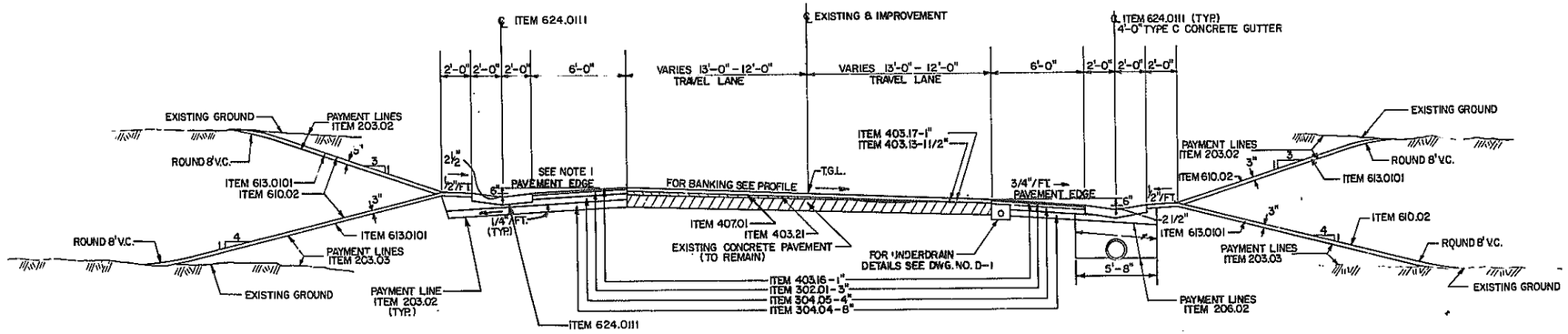
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	18	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



ROUTE 7 NORMAL SECTION OVER EXISTING ROUTE 7 PAVEMENT

(READ IN DIRECTION OF STATIONING)
"SB" STA 92+48.30 TO "SB" STA. 94+75 – 24' PAVEMENT WIDTH



ROUTE 7 BANKED RIGHT SECTION OVER EXISTING ROUTE 7 PAVEMENT

(READ IN DIRECTION OF STATIONING)
"SB" STA. 89+00 TO "SB" STA. 89+80 – TRANSITION 26' – 24' PAVEMENT WIDTH
"SB" STA. 89+80 TO "SB" STA 90+73.30 – 24' PAVEMENT WIDTH

ITEM NUMBER	DESCRIPTION	PAY UNIT	ITEM NUMBER	DESCRIPTION	PAY UNIT
206.02	TRENCH AND CULVERT EXCAVATION	C.Y.	403.13	ASPHALT CONCRETE-TYPE 3, BINDER COURSE	TON
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.	403.21	TRUING AND LEVELING COURSE	TON
203.03	EMBANKMENT IN PLACE	C.Y.			
302.01	BITUMINOUS STABILIZED COURSE	C.Y.	605.1001	UNDERDRAIN FILTER, TYPE II	C.Y.
304.04	SUBBASE COURSE, TYPE 3	C.Y.	17605.9104	CORR. POLY. UNDERDRAIN PIPE, 4" DIAMETER	L.F.
304.05	SUBBASE COURSE, TYPE 4	C.Y.	610.02	SEEDING	ACRE
403.13	ASPHALT CONCRETE-TYPE 3, BINDER COURSE	TON	613.0101	TOPSOIL	C.Y.
403.16	ASPHALT CONCRETE-TYPE 6, TOP COURSE	TON			
403.17	ASPHALT CONCRETE-TYPE 6F, TOP COURSE (HIGH FRICTION)	TON	624.0111	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE GUTTERS	S.Y.
202.20	REMOVE OLD BITUMINOUS CONCRETE OVERLAY	S.Y.	407.01	TACK COAT, EMULSIFIED ASPHALT	GAL.

NOTES

1) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES. USE ROLLOVER 0.08'/FT. AT PAVEMENT SHOULDER JOINT.
2) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTION AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.
3) SEE STD. SHEET 609-1 FOR CONCRETE GUTTER DETAILS.
4) TACK COAT ALL CONCRETE PAVEMENTS TO BE OVERLAYED. – ITEM 407.01
5) REMOVE EXISTING ASPHALT CARPET PRIOR TO PLACEMENT OF TRUING AND LEVELING COURSE.

ROUTE 7 – 24' TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

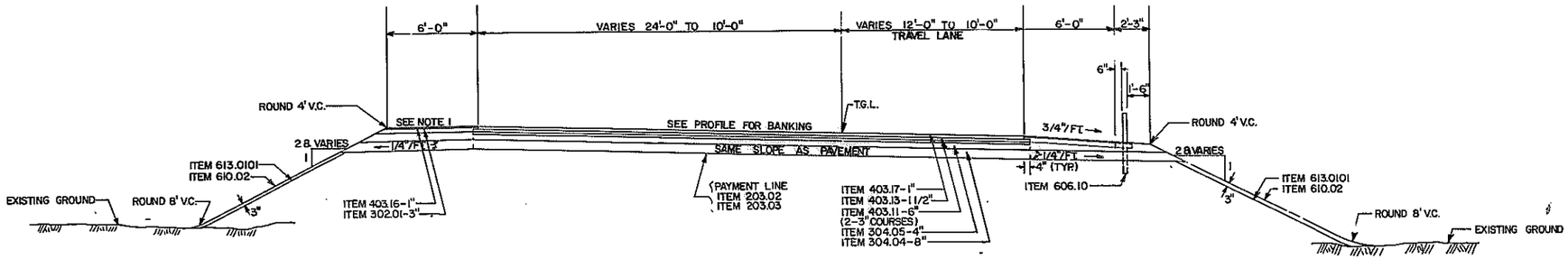
DRAWING No.	SCALE	DATE	REGION
TY-15	1/4" = 1'-0"	3/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
C-37-2 (5/76)

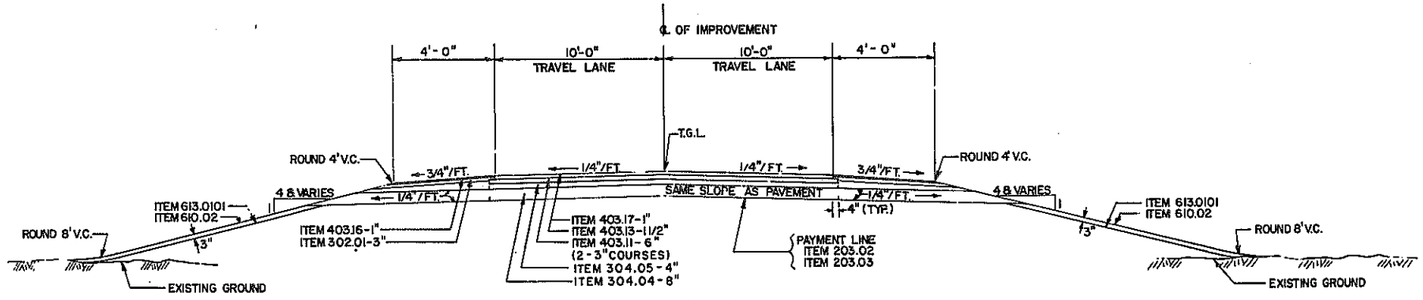
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	19	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



BURDECK ROAD
BANKED RIGHT
(READ IN DIRECTION OF STATIONING)
"BR" STA. 10+20.00 TO "BR" STA. 15+08.50



BURDECK ROAD
NORMAL SECTION
(READ IN DIRECTION OF STATIONING)
"BR" STA. 15+08.50 TO "BR" STA. 15+75.00

ITEM NUMBER	DESCRIPTION	PAY UNIT	ITEM NUMBER	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.	606.10	BOX BEAM GUIDE RAILING	L.F.
203.03	EMBANKMENT IN PLACE	C.Y.	610.02	SEEDING	ACRE
302.01	BITUMINOUS STABILIZED COURSE	C.Y.	613.0101	TOPSOIL	C.Y.
304.04	SUBBASE COURSE, TYPE 3	C.Y.			
304.05	SUBBASE COURSE, TYPE 4	C.Y.			
403.11	ASPHALT CONCRETE-TYPE 1, BASE COURSE	TON			
403.13	ASPHALT CONCRETE-TYPE 3, BINDER COURSE	TON			
403.16	ASPHALT CONCRETE-TYPE 6, TOP COURSE	TON			
403.17	ASPHALT CONCRETE-TYPE 6F, TOP COURSE (HIGH FRICTION)	TON			

NOTES

1) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES. USE ROLLOVER 0.08'/FT. AT PAVEMENT SHOULDER JOINT.

2) WHEN GUIDE RAIL IS PROVIDED, STABILIZE THE SHOULDER 6" BEHIND THE GUIDE RAIL POST.

3) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTION AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.

BURDECK ROAD TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
TY-16	1/4"=1'-0"	2/79	1

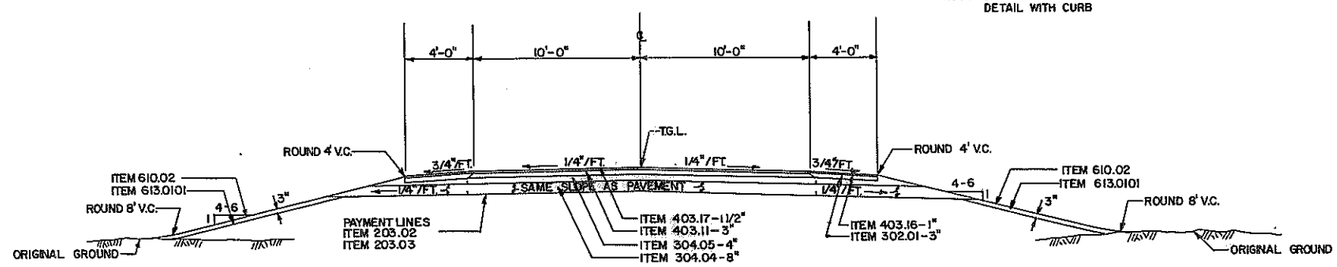
DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	20	284

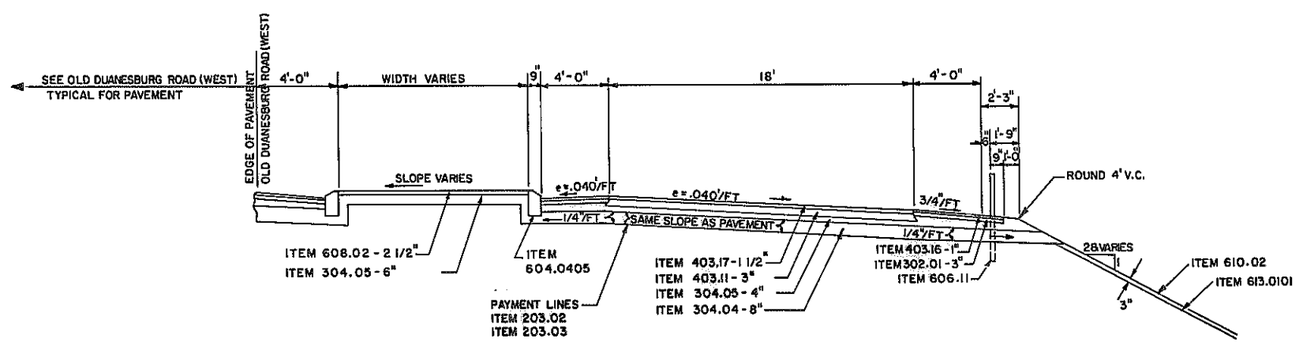
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY- DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

NOTE: SEE TYPICAL SECTION BELOW FOR SHOULDER DETAIL WITH CURB



TYPICAL OLD DUANESBURG ROAD (WEST) SECTION

(READ IN DIRECTION OF STATIONING)
"OD" STA. 10+23 TO "OD" STA. 14+50



TYPICAL SECTION OLD DUANESBURG ROAD EAST ONE WAY CONNECTOR

ITEM NO.	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.
203.03	EMBANKMENT IN PLACE	C.Y.
302.01	BITUMINOUS STABILIZED COURSE	C.Y.
304.04	SUBBASE COURSE, TYPE 3	C.Y.
304.05	SUBBASE COURSE, TYPE 4	C.Y.
403.11	ASPHALT CONCRETE - TYPE 1, BASE COURSE	TON
403.16	ASPHALT CONCRETE - TYPE 6, TOP COURSE	TON
403.17	ASPHALT CONCRETE - TYPE 6F, TOP COURSE (HIGH FRICTION)	TON

ITEM NO.	DESCRIPTION	PAY UNIT
610.02	SEEDING	S.Y.
613.0101	TOPSOIL	ACRE
		C.Y.
608.02	ASPHALT CONCRETE DRIVEWAYS, SIDEWALKS AND CLASS I BIKEWAYS	TON
606.11	BOX BEAM GUIDE RAILING (SHOP CURVED)	L.F.

NOTES
1) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTIONS AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK

TYPICAL SECTION

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

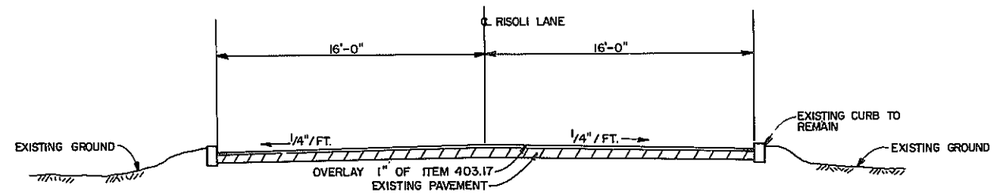
DRAWING NO.	SCALE	DATE	REGION
TY-17	1/4"=1'-0"	4/79	REGION 1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

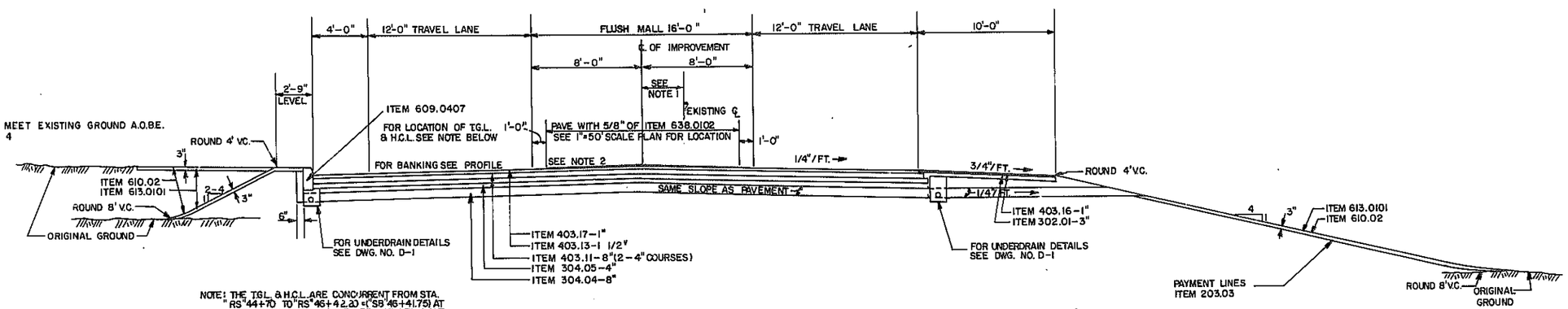
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	21	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY–DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



RISOLI LANE TYPICAL SECTION

SCALE: 1/4" = 1'-0"



NOTE: THE T.G.L. & H.C.L. ARE CONCURRENT FROM STA. "RS" 44+70 TO "RS" 46+42.20 = ("SB" 46+41.75) AT THE MEDIAN EDGE OF THE LEFT TRAVEL LANE (16'-0" FROM THE FACE OF THE CURB). AT STA. "RS" 46+42.20 THE H.C.L. SHIFTS 8'-0" RT. TO THE MEDIAN ℄. BETWEEN "SB" 46+41.75 AND "SB" 49+48.08 THE T.G.L. SHIFTS 8'-0" RT. BOTH THE T.G.L. AND H.C.L. ARE CONCURRENT AT THE MEDIAN ℄ FROM "SB" 49+48.08 TO THE END OF THE PROJECT.

ROUTE 7 - 44' NORMAL SECTION

(READ IN DIRECTION OF STATIONING)
"RS" STA. 44+70 TO "SB" STA. 46+41.75

ITEM NO.	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.
203.03	EMBANKMENT IN PLACE	C.Y.
302.01	BITUMINOUS STABILIZED COURSE	C.Y.
304.04	SUBBASE COURSE, TYPE 3	C.Y.
304.05	SUBBASE COURSE, TYPE 4	C.Y.
403.11	ASPHALT CONCRETE-TYPE 1, BASE COURSE	TON
403.13	ASPHALT CONCRETE-TYPE 3, BINDER COURSE	TON
403.16	ASPHALT CONCRETE-TYPE 6, TOP COURSE	TON
403.17	ASPHALT CONCRETE-TYPE 6F, TOP COURSE (HIGH FRICTION)	TON
407.01	TACK COAT, EMULSIFIED ASPHALT	GAL

ITEM NO.	DESCRIPTION	PAY UNIT
605.1001	UNDERDRAIN FILTER, TYPE II	C.Y.
17605.9104	CORR. POLY. UNDERDRAIN PIPE, 4" DIAMETER	L.F.
609.0407	CONVENTIONALLY FORMED OR MACHINE FORMED CONCRETE CURB, TYPE 8B	L.F.
610.02	SEEDING	ACRE
613.0101	TOPSOIL	C.Y.
638.0102	COLORED SYNTHETIC RESIN BINDER CONCRETE (WHITE)	TON

NOTES

1) THE OFFSET FROM THE EXISTING CENTERLINE OF PAVEMENT TO THE PROPOSED CENTERLINE OF IMPROVEMENT VARIES.
2) THE FLUSH MALL SURFACE MATERIAL TO BE PLACED 12" SHORT OF THE DETAILED MALL WIDTH TO ACCOMODATE EDGE STRIPING.
3) WHEN THE PAVEMENT IS SUPERELEVATED GREATER THAN 1/4"/FT. THE SHOULDER SLOPE VARIES. USE ROLLOVER 0.06'/FT. AT PAVEMENT SHOULDER JOINT.
4) THE METHOD OF MEASUREMENT FOR EARTHWORK SHALL BE BASED ON THE THEORETICAL SLOPES SHOWN ON THE PLANS AND TYPICAL SECTION AND WILL NOT INCLUDE ROUNDING. THE COST OF ROUNDING SHALL BE INCLUDED IN OTHER ITEMS OF GRADING WORK.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	
TY-18	1/4" = 1'-0"	7/79	REGION 1

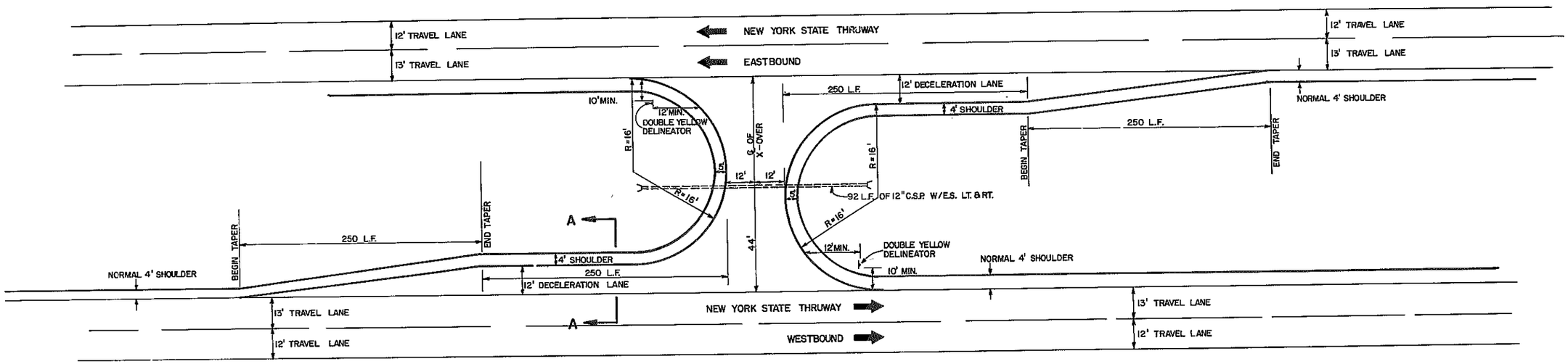
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	22R1	284

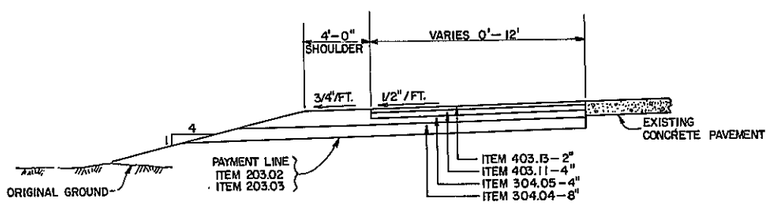
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H.880
SCHENECTADY COUNTY



MEDIAN CROSSOVER AT M.P. 159.6
NEW YORK STATE THRUWAY

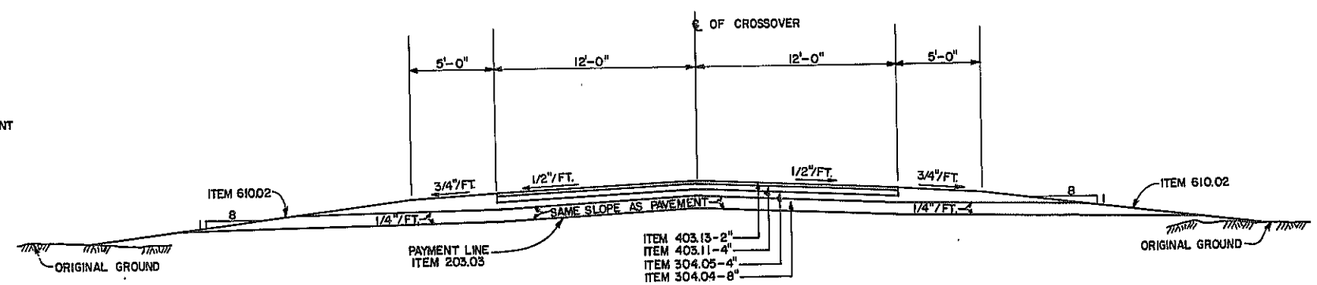
NOT TO SCALE

NOTE: IN ACCORDANCE WITH THE GENERAL NOTE FOR NEW YORK STATE THRUWAY MAINTENANCE AND PROTECTION OF TRAFFIC IF THE CONTRACTOR WISHES TO USE THE TURNAROUND AT M.P. 159.6 HE SHALL CONSTRUCT THE TURNAROUND IN ACCORDANCE WITH THESE DETAILS. THE ITEMS OF CONSTRUCTION SHALL BE PAID FOR AS SHOWN ON THE TYPICAL SECTIONS.



SECTION A-A

SCALE: 1/4" = 1'-0"



SECTION THRU CROSSOVER

SCALE: 1/4" = 1'-0"

REVISIONS

CONTRACTOR ELECTED NOT TO USE CROSSOVER AT M.P. 159.6

ITEM NO.	DESCRIPTION	PAY UNIT	ITEM NO.	DESCRIPTION	PAY UNIT
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	C.Y.			
203.03	EMBANKMENT IN PLACE	C.Y.			
304.04	SUBBASE COURSE, TYPE 3	C.Y.			
304.05	SUBBASE COURSE, TYPE 4	C.Y.			
403.11	ASPHALT CONCRETE-TYPE 1, BASE COURSE	TON			
403.13	ASPHALT CONCRETE-TYPE 3, BINDER COURSE	TON			
610.02	SEEDING	ACRE			

MEDIAN CROSSOVER-N.Y.S. THRUWAY

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
TY-19	AS SHOWN	5/79	1

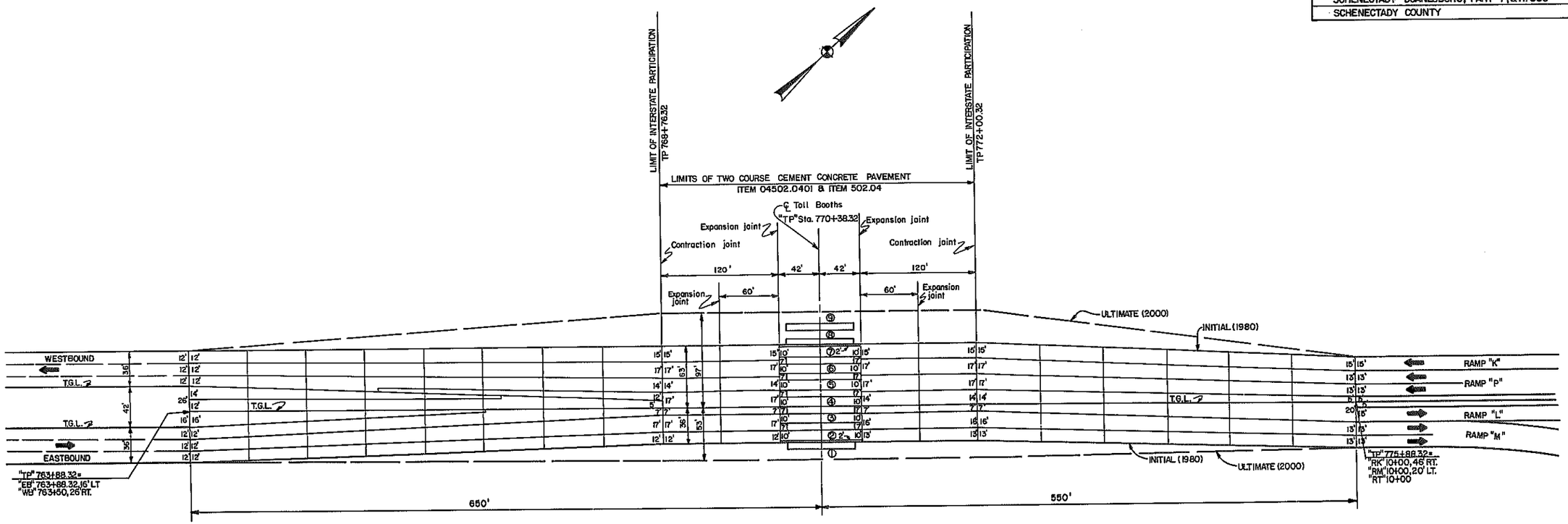
DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		238J	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



LEGEND

LANE DESIGNATION

1980	2000
EXIT ⑤ ⑥ ⑦	EXIT ⑤⑥⑦⑧⑨
REVERSIBLE ④	REVERSIBLE ④
ENTRANCE ②③	ENTRANCE ①②③

1980 PLAZA
2000 PLAZA
JOINTS

NOTE: PAVEMENT JOINT DETAILS REVISED AS REQUESTED BY N.Y.S.T.A.

TOLL PLAZA LAYOUT & JOINT LAYOUT

REVISIONS

TOLL PLAZA LAYOUT & JOINT LAYOUT

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

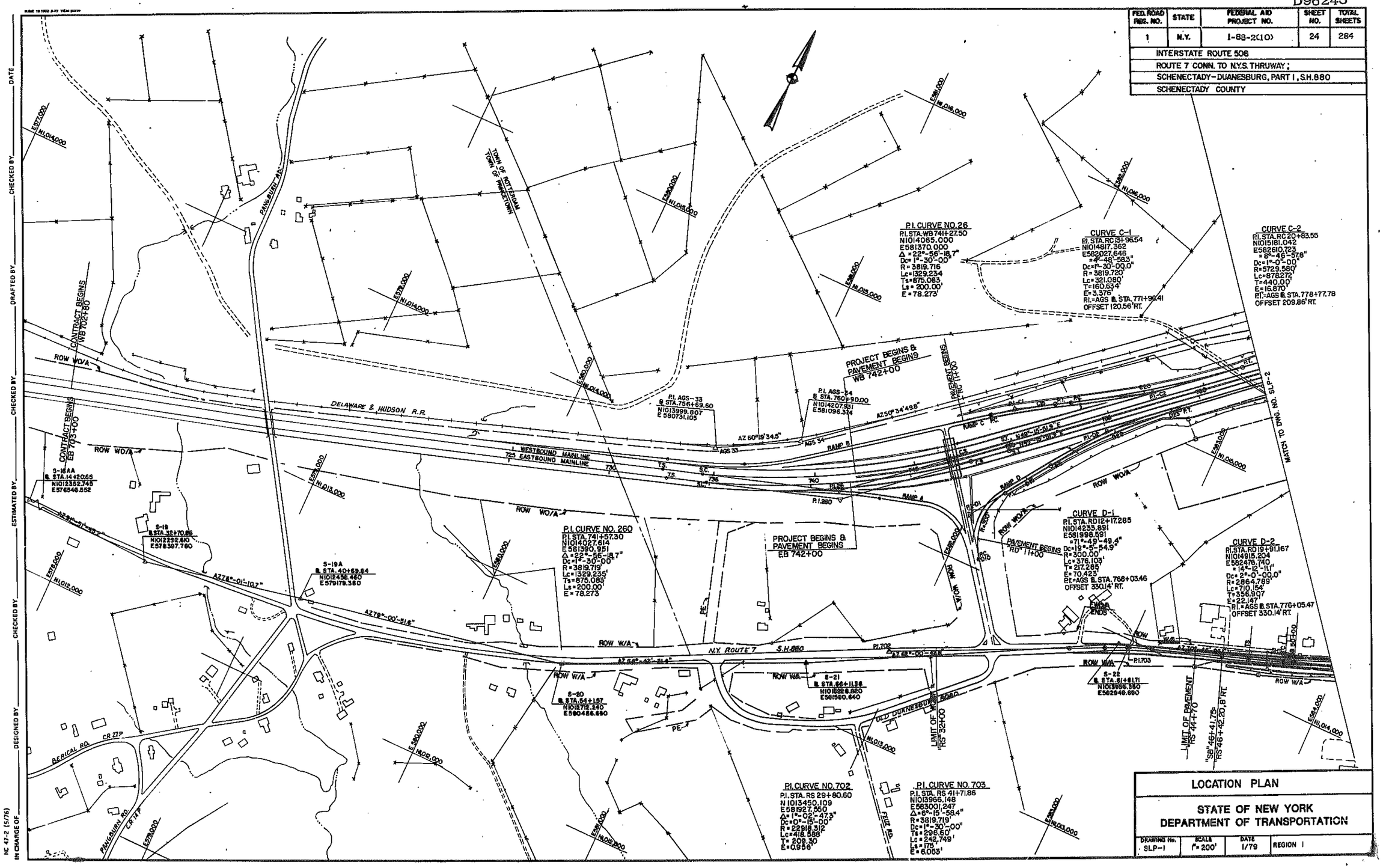
DRAWING No.	SCALE	DATE	REGION
TY-20	1"=50'	10/79	REGION I

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	24	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



LOCATION PLAN

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
SLP-1	1" = 200'	1/79	REGION 1

D96243

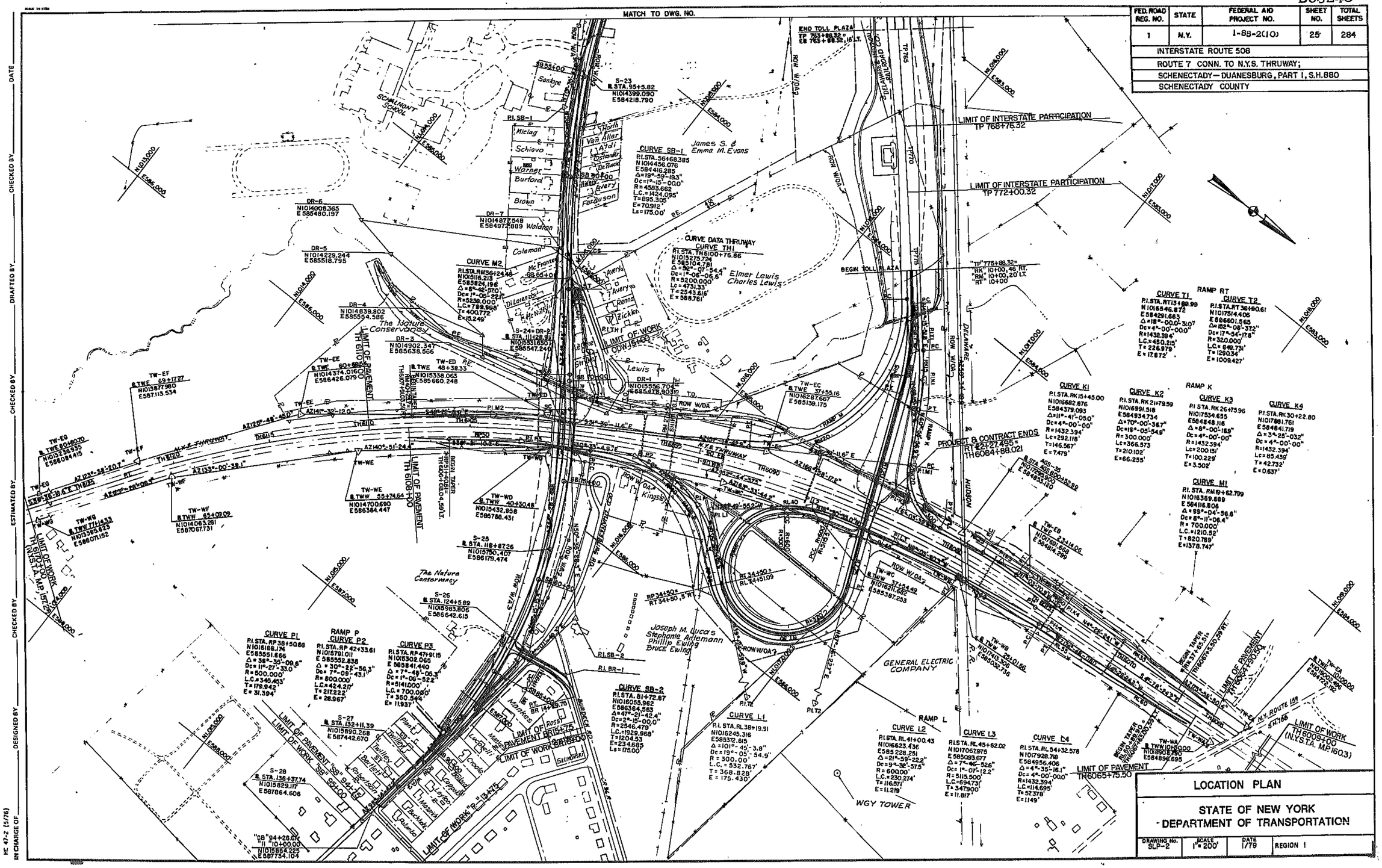
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	25	284

INTERSTATE ROUTE 508

ROUTE 7 CONN. TO N.Y.S. THRUWAY;

SCHENECTADY – DUANESBURG, PART I, S.H.880

SCHENECTADY COUNTY



DRAWING No.	SCALE	DATE	
SLP-2	1" = 200'	1/79	REGION 1

LOCATION PLAN

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

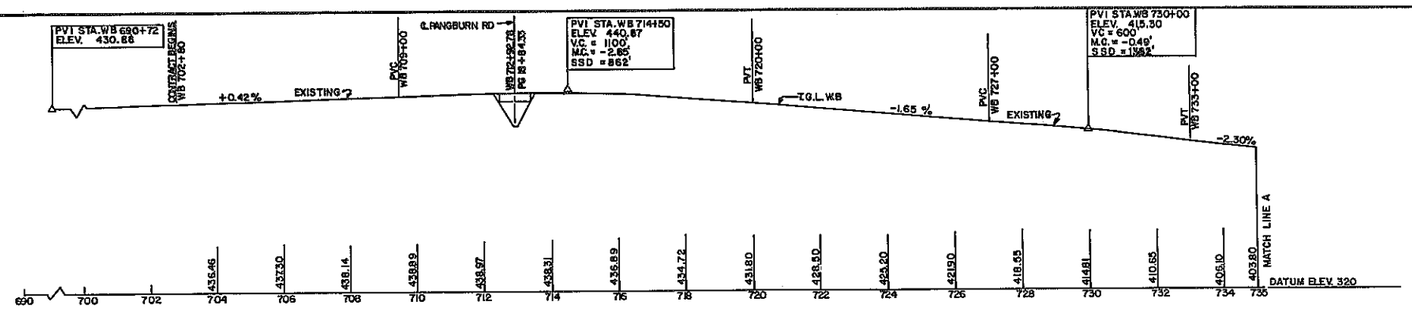
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HE 47-2 (5/76)

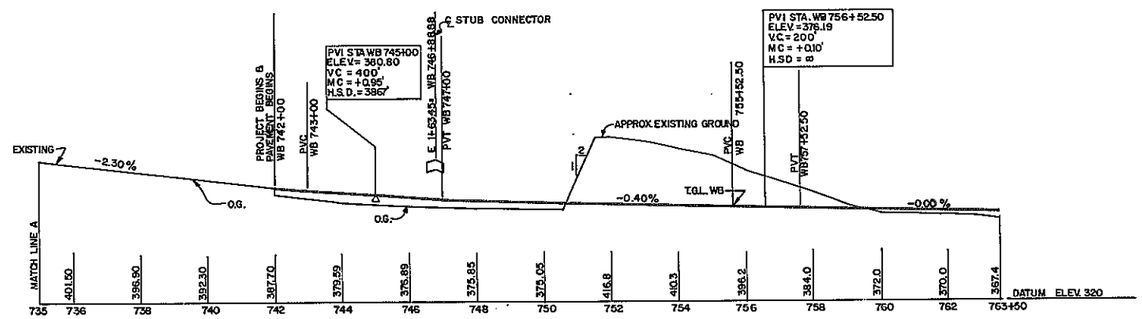
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	26	284

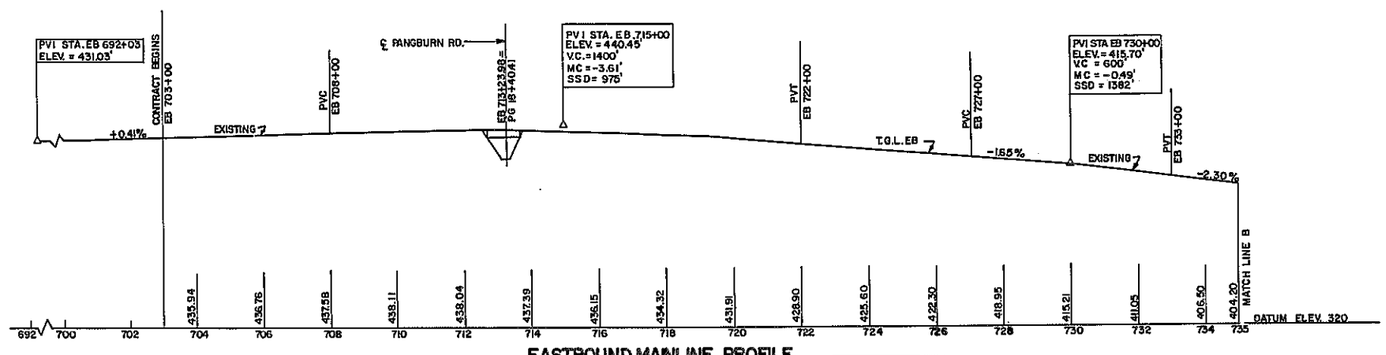
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



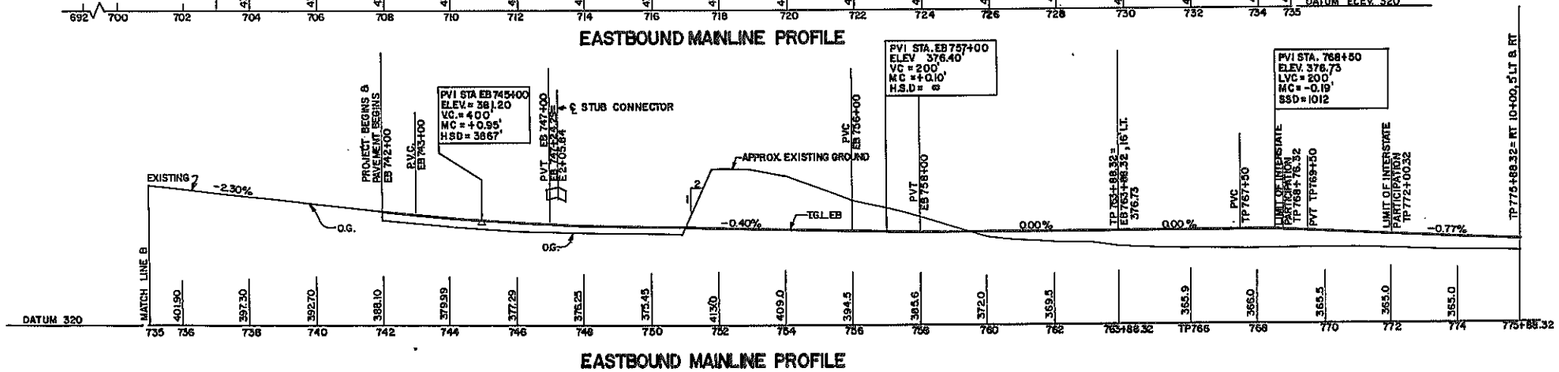
WESTBOUND MAINLINE PROFILE



WESTBOUND MAINLINE PROFILE



EASTBOUND MAINLINE PROFILE



EASTBOUND MAINLINE PROFILE

200' MAINLINE PROFILES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

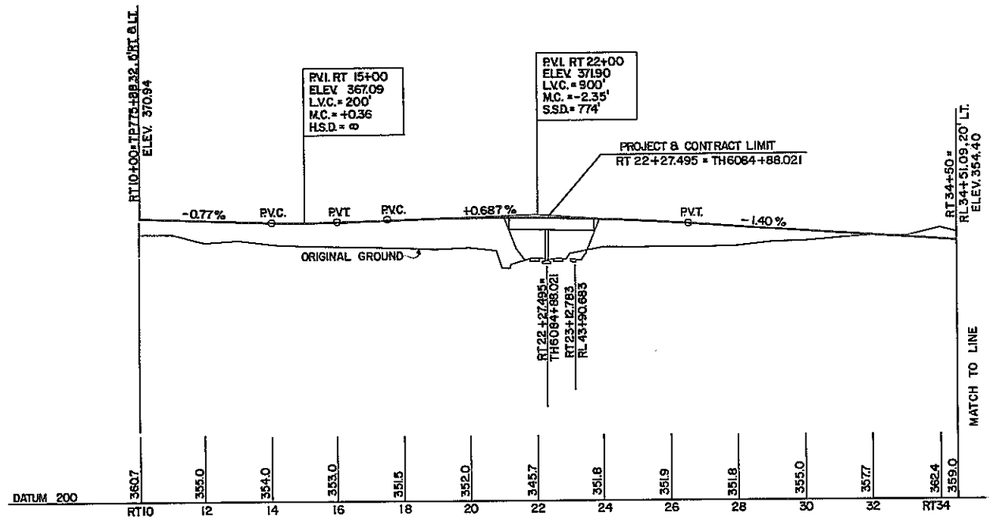
DRAWING No.	SCALE	DATE	REGION
SLP-3	HORIZ. 1" = 200' VERT. 1" = 40'	4/79	I

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
BE 47-2 (5/76)

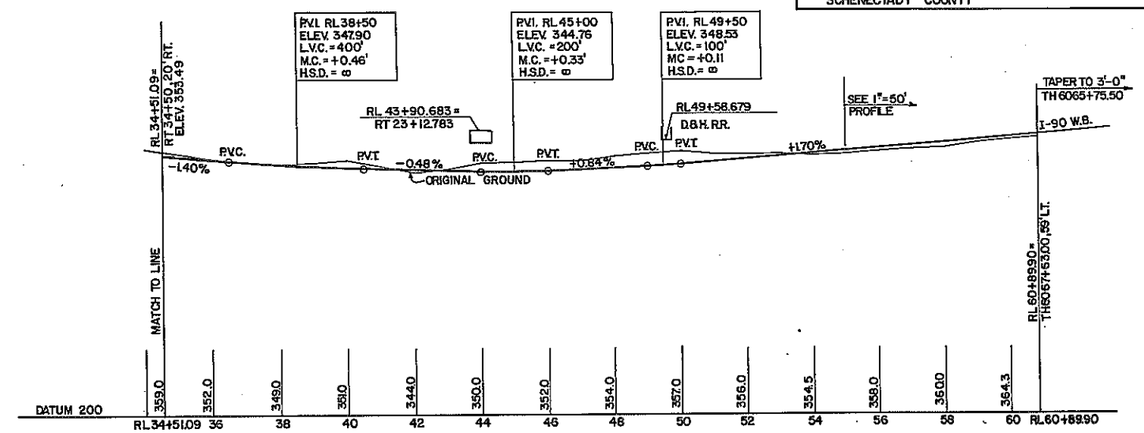
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	27	284

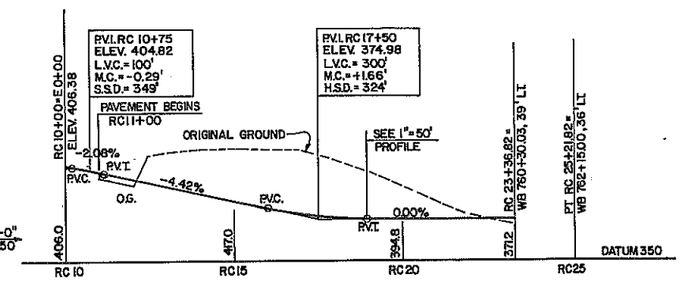
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



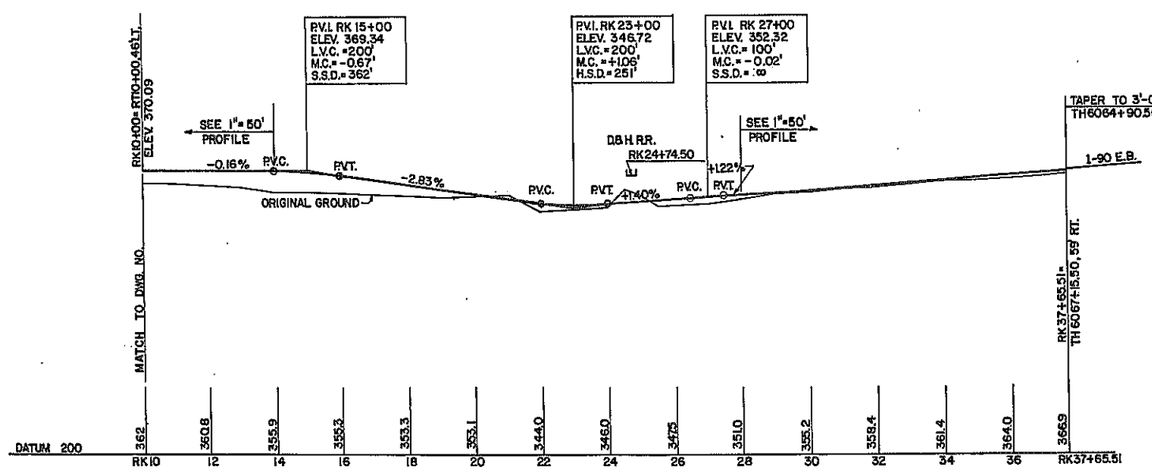
RAMPS P&L PROFILE



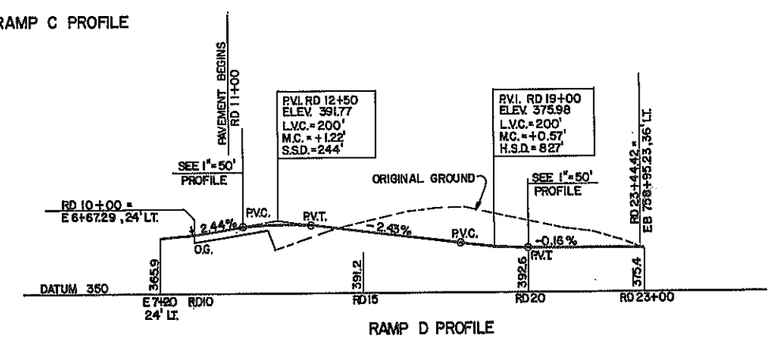
RAMP L PROFILE



RAMP C PROFILE



RAMP K PROFILE



RAMP D PROFILE

200' PROFILES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

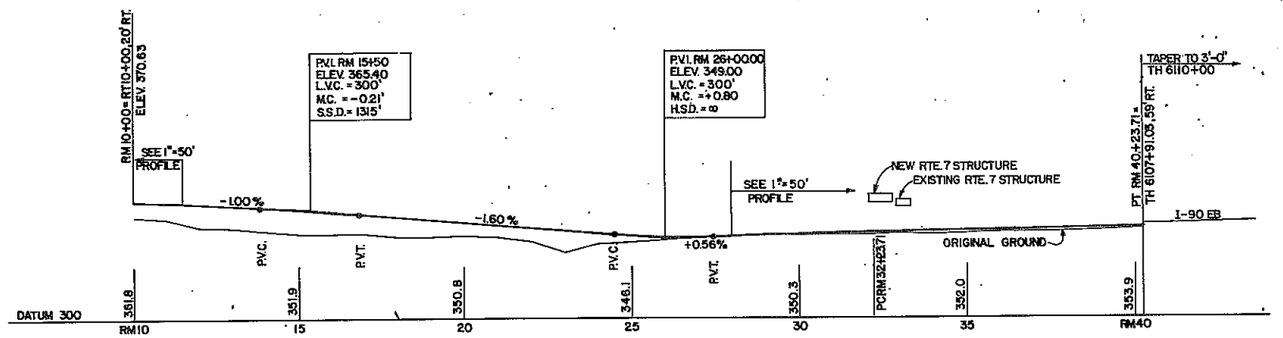
DRAWING No.	SCALE	DATE	
SLP-4	HORIZ. 1"=200' VERT. 1"=40'	9/76	REGION I

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

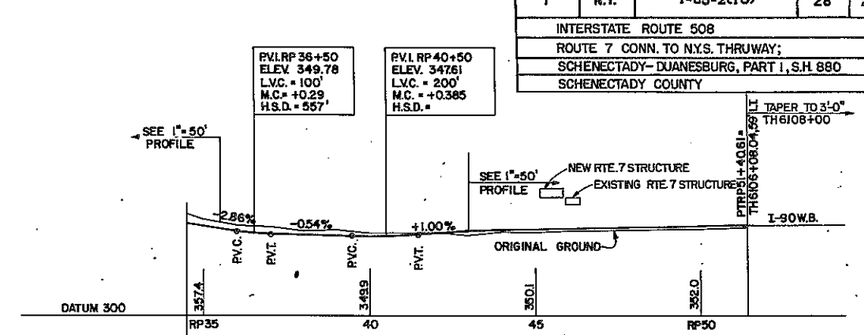
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	28	284

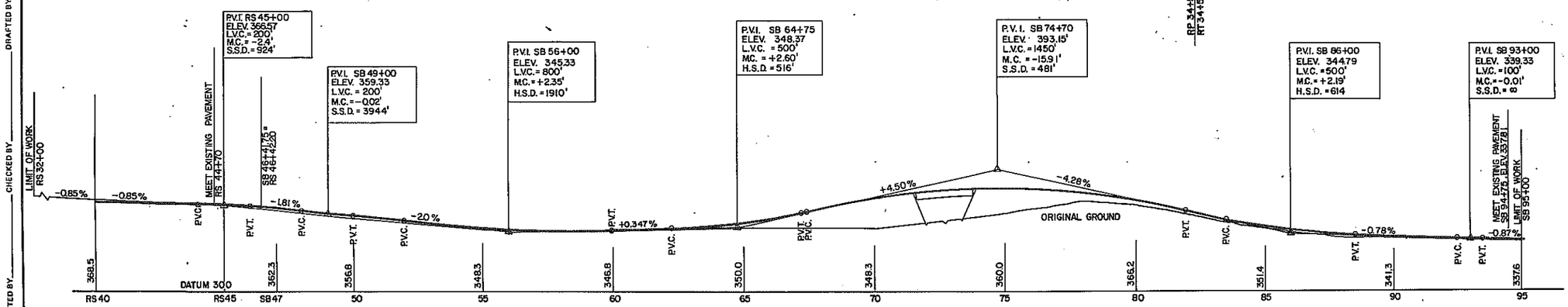
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY- DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



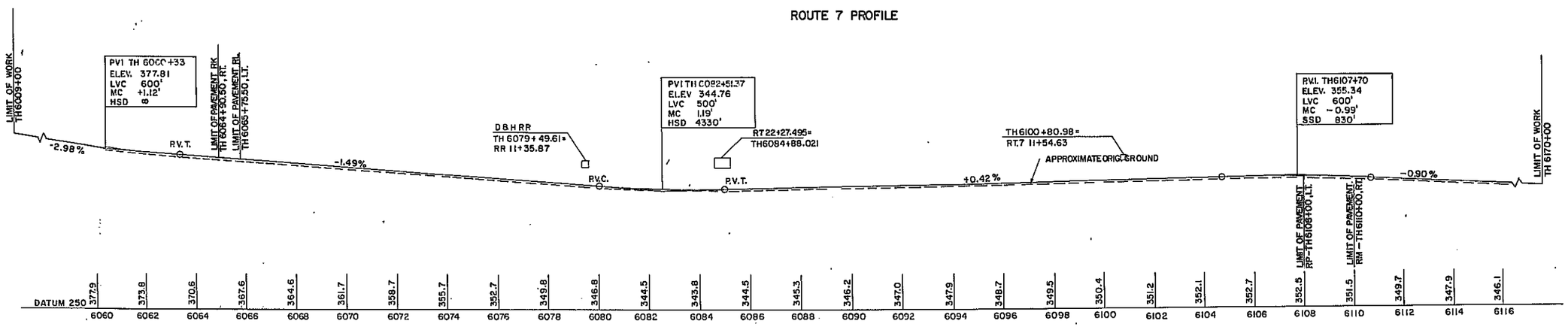
RAMP M PROFILE



RAMP P PROFILE



ROUTE 7 PROFILE



I-90 PROFILE

1"=200' SCALE PROFILES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
SLP-5	HORIZ. 1"=200' VERT. 1"=40'	4/79	REGION 1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF

HE 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	29	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

TABLE OF MAINTENANCE

PART	HIGHWAY	LIMITS	FEATURES TO BE MAINTAINED	℄ MILES	LANE MILES	AGENCY	JURISDICTION
			INTERSTATE AND RAMPS				
1	INTERSTATE ROUTE 508 I-88 SECT. 4 (02)	EB 742+00 TO EB 763+88.32 WB 742+00 to WB 763+50	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, LANDSCAPING, AND FENCING	0.414 0.407	0.921 1.222	N.Y.S.D.O.T.	SECTION 340-b OF HIGHWAY LAW
2	EXISTING N.Y.S. THRUWAY MAINLINE I-90	EB TH 6099+00 TO EB TH 6170+00 WB TH 6099+00 TO WB TH 6170+00	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, LANDSCAPING, AND FENCING	3.049 3.049	6.099 5.099	N.Y.S. THRUWAY AUTHORITY	SECTION 359 OF PUBLIC AUTHORITY LAW
3a	RAMP "C"	"RC" 10+12 TO "RC" 23+36.82	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, LANDSCAPING, AND FENCING	0.229	0.229	N.Y.S.D.O.T.	SECTION 340-b OF HIGHWAY LAW
3b	RAMP "D"	"RD" 10+00 TO "RD" 23+44.42	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, LANDSCAPING, AND FENCING	0.255	0.255	N.Y.S.D.O.T.	SECTION 340-b OF HIGHWAY LAW
4a	RAMP "L"	"RL" 34+51.09 TO "RL" 62+77.40	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, LANDSCAPING, AND FENCING	0.518	0.518	N.Y.S. THRUWAY AUTHORITY	SECTION 359 OF PUBLIC AUTHORITY LAW
4b	RAMP "K"	"RK" 10+00 TO "RK" 39+90.51	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, LANDSCAPING, AND FENCING	0.545	0.545	N.Y.S. THRUWAY AUTHORITY	SECTION 359 OF PUBLIC AUTHORITY LAW
4c	RAMP "H"	"RH" 10+00 TO "RH" 42+32.68	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, LANDSCAPING, AND FENCING	0.592	0.886	N.Y.S. THRUWAY AUTHORITY	SECTION 359 OF PUBLIC AUTHORITY LAW
4d	RAMP "P"	"RP" 34+50 TO "RP" 53+32.57	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, LANDSCAPING, AND FENCING	0.338	0.409	N.Y.S. THRUWAY AUTHORITY	SECTION 359 OF PUBLIC AUTHORITY LAW
4e	RAMP "RT"	"RT" 10+00 TO "RT" 34+50	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, LANDSCAPING, AND FENCING	0.464	1.392	N.Y.S. THRUWAY AUTHORITY	SECTION 359 OF PUBLIC AUTHORITY LAW
5	TOLL PLAZA	TP 763+88.32 TO TP 775+88.32	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, LANDSCAPING, FENCING, PARKING AREAS, TOLL BOOTHS, UTILITY BUILDING, AND UTILITIES.	0.227	1.364	N.Y.S. THRUWAY AUTHORITY	SECTION 359 OF PUBLIC AUTHORITY LAW
			CROSSROADS, HIGHWAYS AND INTERSECTIONS				
6	ROUTE 7 (SH 880)	"RS" 44+70 TO "RS" 46+42.20 = "SB" 46+41.75 TO "SB" 94+50	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, AND LANDSCAPING	0.943	1.887	N.Y.S.D.O.T.	SECTION 340-b OF HIGHWAY LAW
7	BURDECK ROAD (CR 36R)	"BR" 10+20 TO "BR" 15+75	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, AND LANDSCAPING	0.105	0.210	SCHENECTADY COUNTY	SECTION 340-b OF HIGHWAY LAW AND RESOLUTION DATED 7/10/79.
8a	OLD DUANESBURG RD. (CUL-DE-SAC-WEST)	"ODW" 10+2193 TO "ODW" 14+50	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, AND LANDSCAPING.	0.081	0.162	TOWN OF ROTTERDAM	SECTION 340-b OF HIGHWAY LAW AND RESOLUTION DATED 7/5/79.
8b	OLD DUANESBURG RD. (RTE.7 TO BURDECK RD.	"BR" 11+26, 12' RT. TO "SB" 85+20, 75 LT.	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, AND LANDSCAPING	0.031	0.062	TOWN OF ROTTERDAM	SECTION 340-b OF HIGHWAY LAW AND RESOLUTION DATED 7/5/79.
8c	RISOLI LANE	"R" 10+20 TO "R" 13+65	PAVEMENT, SHOULDERS, DRAINAGE SYSTEM, AND LANDSCAPING	0.065	0.131	TOWN OF ROTTERDAM	SECTION 340-b OF HIGHWAY LAW AND RESOLUTIONS 7/5/79 & 8/2/79

TABLE OF MAINTENANCE

PART	HIGHWAY	LIMITS	FEATURES TO BE MAINTAINED	℄ MILES	LANE MILES	AGENCY	JURISDICTION
			STRUCTURES AND STREAMS				
9	ROUTE 7 OVER N.Y.S. THRUWAY AND RAMPS M & P	"SB" 71+69 TO "SB" 73+75	SUBSTRUCTURE, STRUCTURAL STEEL, STRUCTURAL DECK AND STEEL PAINTING. WEARING SURFACE, SIDEWALKS, AND BRIDGE RAIL	– –	– –	N.Y.S. THRUWAY AUTHORITY N.Y.S.D.O.T.	SECTION 359 OF PUBLIC AUTHORITY LAW
10	RAMP "RT" OVER N.Y.S. THRUWAY	"RT" 21+23.22 TO "RT" 23+61.26	ENTIRE STRUCTURE	– –	– –	N.Y.S. THRUWAY AUTHORITY	SECTION 359 OF PUBLIC AUTHORITY LAW
11	EXISTING D&H RR OVER N.Y.S. THRUWAY AND RAMPS K & L	RR10+13 TO RR12+58 (FROM MT 53-9)	SUBSTRUCTURE, GIRDERS, FLOOR BEAMS, DECK, AND STEEL PAINTING RAILROAD TRACK, TIES, AND BALLAST	– –	- -	N.Y.S. THRUWAY AUTHORITY D&H RR	SECTION 359 OF PUBLIC AUTHORITY LAW
12	5' x 10' PRECAST BOX CULVERT UNDER RAMP K	"RK" 21+80	CULVERT, INCLUDING WINGWALLS AND HEADWALLS	-	-	N.Y.S. THRUWAY AUTHORITY	SECTION 359 OF PUBLIC AUTHORITY LAW
13	EXISTING 6' x 6' BOX CULVERT UNDER D&H RR	"RR" 9 + 91± (FROM MT 53-9)	CULVERT, INCLUDING WINGWALLS AND HEADWALLS	-	-	D&H RR	
14	TWIN 78" C.S.P. UNDER RAMP "RT"	"RT" 20+66	CULVERT, CUT-OFF WALLS, RIP-RAP AND STREAM WITHIN ROW LIMITS	-	-	N.Y.S. THRUWAY AUTHORITY	SECTION 359 OF PUBLIC AUTHORITY LAW
15	TWIN 78" C.S.P. UNDER RAMP H	"RH" 20+65	CULVERT, CUT-OFF WALLS, RIP-RAP, AND STREAM WITHIN ROW LIMITS	-	-	N.Y.S. THRUWAY AUTHORITY	SECTION 359 OF PUBLIC AUTHORITY LAW
16	TWIN 84" C.S.P. UNDER RTE. 7	RS 70 + 64	CULVERT, CUT-OFF WALLS, & RIP-RAP	-	-	N.Y.S.D.O.T.	SECTION 340-b OF HIGHWAY LAW
17	6' TO 12' WIDE STONE LINED DITCH ALONG E.B. THRUWAY, NORTH OF RTE. 7	TH 6070+80, 120' RT± TO TH 6099+30, 180' RT±	STONE LINED DITCH	-	-	N.Y.S. THRUWAY AUTHORITY	SECTION 359 OF PUBLIC AUTHORITY LAW
18	12' WIDE STONE LINED DITCH ALONG E.B. THRUWAY, SOUTH OF RTE. 7	TH 6101+80, 240' RT± TO TH 6109+00, 840' RT±	STONE LINED DITCH	-	-	N.Y.S.D.O.T.	SECTION 12 OF HIGHWAY LAW
			ROADS ABANDONED AND DESTROYED				
19	OLD DUANESBURG RD. (RTE. 7 TO BURDECK RD.)	"SB" 85+20, 75' LT± TO "SB" 90+50, 12' LT±	ABANDON AND REMOVE	0.100	0.200	TOWN OF ROTTERDAM	SECTION 340-b OF HIGHWAY LAW AND RESOLUTION DATED 7/5/79.
			OTHER FEATURES				
20	INTERSECTION OF SCHALMONT SCHOOL DRIVE AND RTE. 7	-	ENTIRE TRAFFIC SIGNAL SYSTEM FOR SIGNALIZED INTERSECTION			SCHALMONT SCHOOL DISTRICT	SECTION 340-b OF HIGHWAY LAW
21	INTERSECTION OF BURDECK RD. AND RTE. 7	-	ENTIRE TRAFFIC SIGNAL SYSTEM FOR SIGNALIZED INTERSECTION	-	-	N.Y.S.D.O.T.	SECTION 340-b OF HIGHWAY LAW
22	ROUTE 7 STUB CONNECTOR BRIDGE OVER I-88 MAINLINE	EB 747+00±	ENTIRE FLASHING BEACON SYSTEM INCLUDING ELECTRIC POWER	-	-	N.Y.S. THRUWAY AUTHORITY	AGREEMENT DATED 6/28/79
23	ROUTE 7 AND N.Y.S. THRUWAY	"SB" 53+00± TO "SB" 95+00± & "TH" 6099+00± TO "TH" 6068+00±	ENTIRE EXISTING & RELOCATED WATERMAIN AND APPURTENANCES INCLUDING SLEEVED CROSSINGS	-	-	TOWN OF ROTTERDAM	SECTION 340-b OF HIGHWAY LAW
24	ROUTE 7 TO TOLL PLAZA	"SB" 63+46± TO "TP" 770+00±	NEW 6" WATERMAIN	-	-	TOWN OF ROTTERDAM	SECTION 340-b OF HIGHWAY LAW

TABLE OF MAINTENANCE

PART	HIGHWAY	LIMITS	FEATURES TO BE MAINTAINED	℄ MILES	LANE MILES	AGENCY	JURISDICTION
			SNOW REMOVAL				
25	I-88 M/L AND RAMPS C & D		ICE AND SNOW CONTROL AND REMOVAL ON PARTS 1, 3a & 3b	1.305	2.627	N.Y.S.D.O.T.	SECTION 340-b OF HIGHWAY LAW
26	EXISTING N.Y.S. THRUWAY MAINLINE, RAMPS L, K, H, P AND RT, TOLL PLAZA		ICE AND SNOW CONTROL AND REMOVAL ON PARTS 2, 4a, 4b, 4c, 4d, 4e, AND 5	8.782	17.312	N.Y.S. THRUWAY AUTHORITY	SECTION 359 OF PUBLIC AUTHORITY LAW
27	ROUTE 7 (SH 880)		ICE AND SNOW CONTROL AND REMOVAL ON PART 6	0.943	1.887	N.Y.S.D.O.T.	SECTION 340-b OF HIGHWAY LAW
28	BURDECK ROAD (CR 36R)		ICE AND SNOW CONTROL AND REMOVAL ON PART 7	0.105	0.210	SCHENECTADY COUNTY	SECTION 340-b OF HIGHWAY LAW
29	OLD DUANESBURG RD. (CUL-DE-SAC WEST OF N.Y.S. THRUWAY AND PORTION EAST OF BURDECK RD.)		ICE AND SNOW CONTROL AND REMOVAL ON PARTS 8a & 8b	0.112	0.224	TOWN OF ROTTERDAM	SECTION 340-b OF HIGHWAY LAW
30	RISOLI LANE		ICE AND SNOW CONTROL AND REMOVAL ON PART 8c	0.065	0.131	TOWN OF ROTTERDAM	SECTION 340-b OF HIGHWAY LAW
			LIGHTING				
31	ROUTE 7 (SH 880)	"SB" 53+70± "SB" 83+64± "SB" 94+25± "RS" 35+00±	LIGHTING ON PART 6 AT INTERSECTION OF RTE. 7 AND SCHOOL DRIVE, AT INTERSECTION OF RTE. 7 AND BURDECK RD, AND INTERSECTION OF RTE. 7 AND STUB CONNECTOR.	–	–	TOWN OF ROTTERDAM	SECTION 340-b OF HIGHWAY LAW AND RESOLUTION DATED _____.

NOTES

ALL EXISTING SANITARY SEWERS AND OTHER SEWERS NOT DEEMED TO BE PART OF THE PROJECT BY THE COMMISSIONER, WATERMAINS, HYDRANTS, AND OTHER MUNICIPALLY OR PRIVATELY OWNED FACILITIES WITHIN THE LIMITS OF THE HIGHWAY R.O.W. WHICH REMAIN IN SERVICE UNCHANGED, AND ALL SUCH FACILITIES RELOCATED OR PROTECTED AS A PART OF THE WORK PERFORMED UNDER THE PROJECT, WHETHER CROSSING, LOCATED WITHIN OR ADJACENT TO THE R.O.W. SHALL BE MAINTAINED AS THE CASE MAY BE, BY THE MUNICIPALITY OR BY THE AGENCY OR UNIT OWNING OR HAVING CONTROL AND JURISDICTION THEREOF AT NO COST OR EXPENSE TO THE STATE.

THIS MAINTENANCE JURISDICTION TABLE INDICATES THE DIVISION OF RESPONSIBILITY FOR MAINTENANCE OF THIS PROJECT AFTER COMPLETION OF CONSTRUCTION. IT IN NO WAY RELIEVES THE CONTRACTOR OF HIS RESPONSIBILITY TO MAINTAIN AND PROTECT TRAFFIC AS PROVIDED BY ITEM 619 DURING CONSTRUCTION.

MAINTENANCE OF LANDSCAPING INCLUDES REMOVAL OF RUBBISH AS WELL AS MOWING THE GRASS.

REFER TO MAINTENANCE JURISDICTION PLANS FOR APPROXIMATE LOCATIONS OF PART NO'S.

DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

TABLE OF MAINTENANCE

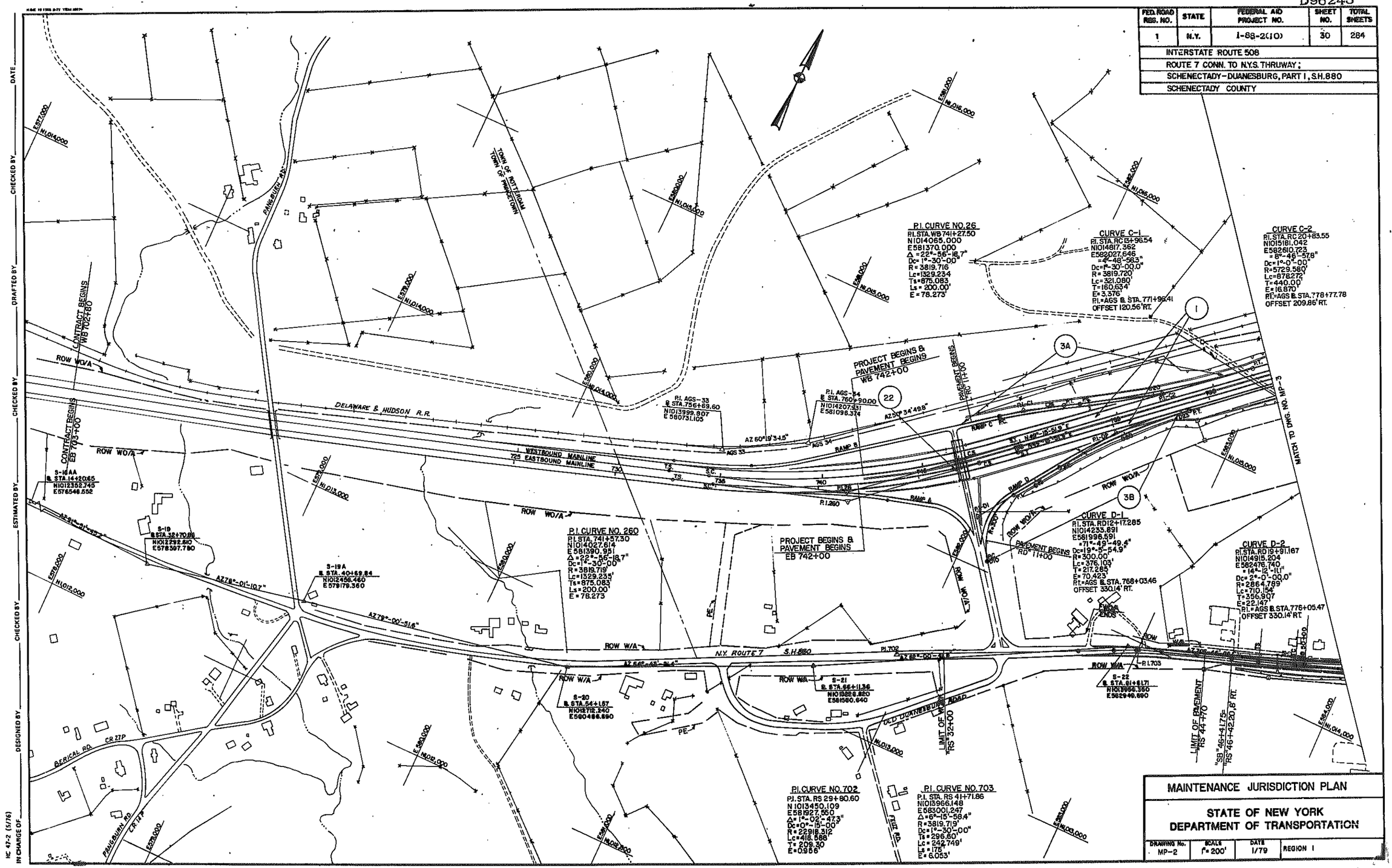
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
MP-1	N/A	4/79	I

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	30	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



MAINTENANCE JURISDICTION PLAN

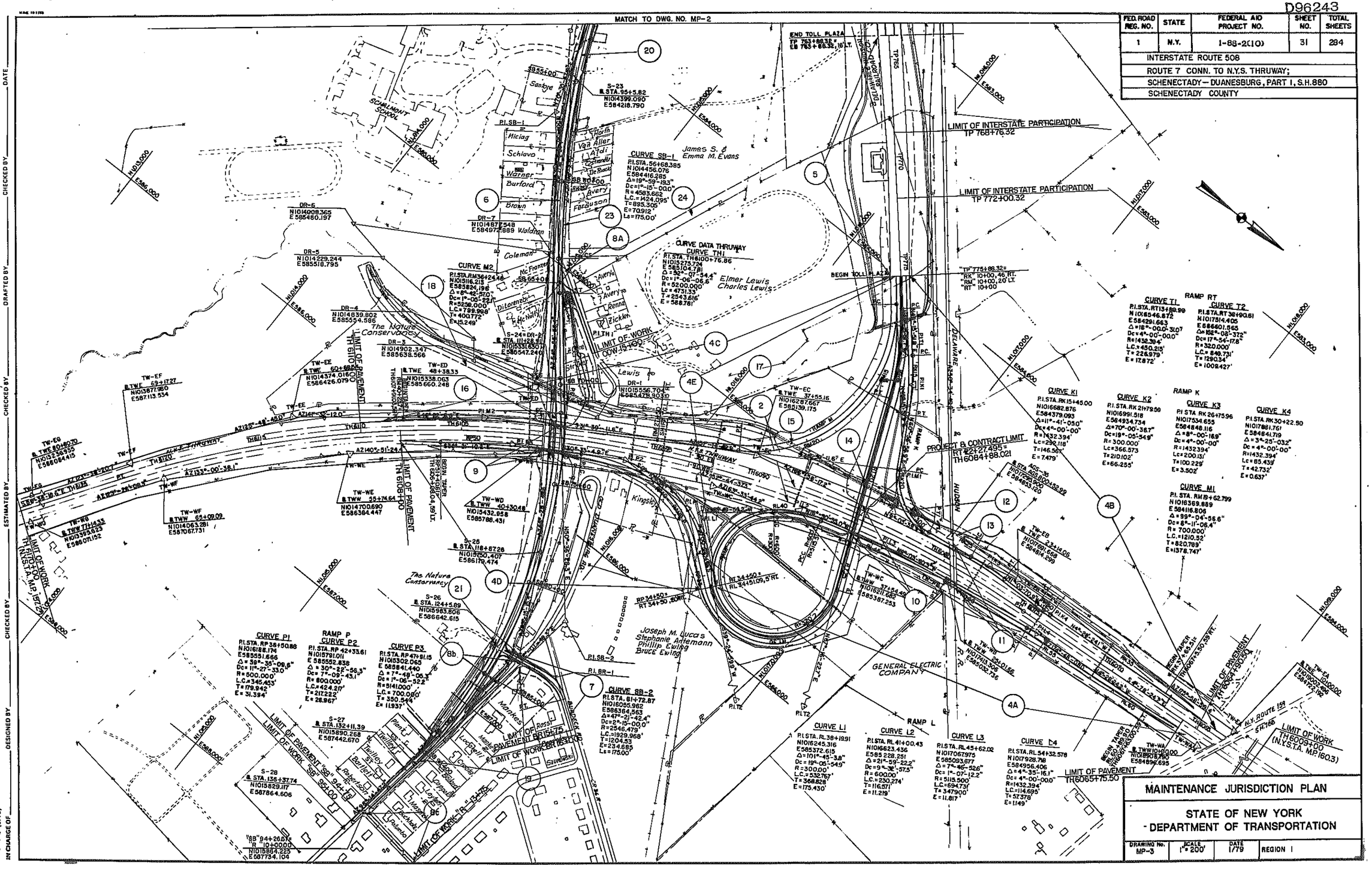
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
MP-2	1" = 200'	1/79	1

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	31	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY—DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



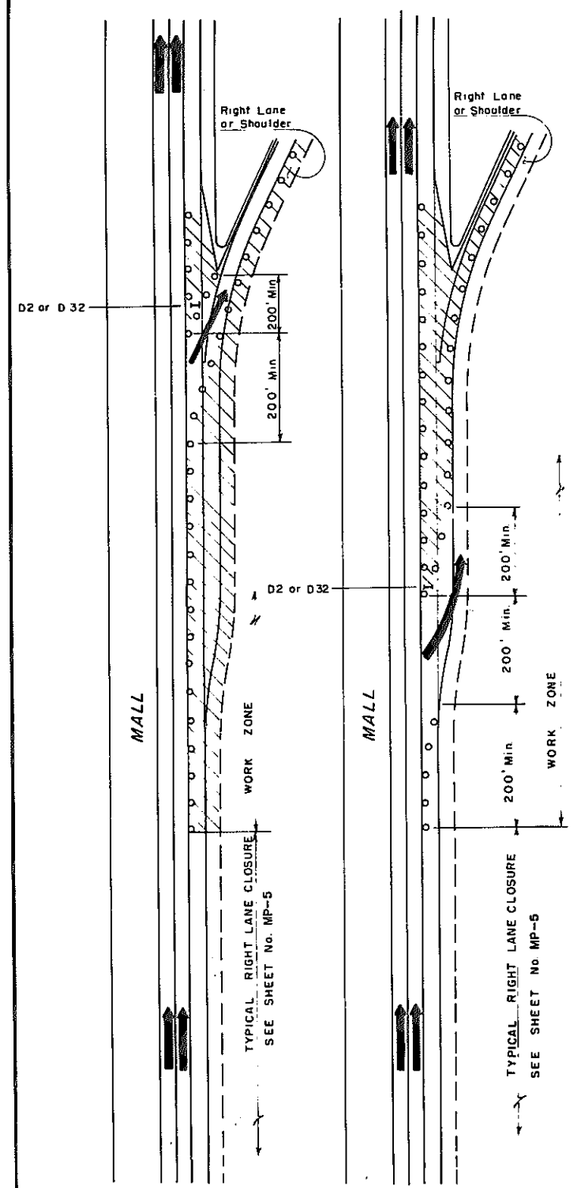
MAINTENANCE JURISDICTION PLAN

STATE OF NEW YORK
- DEPARTMENT OF TRANSPORTATION

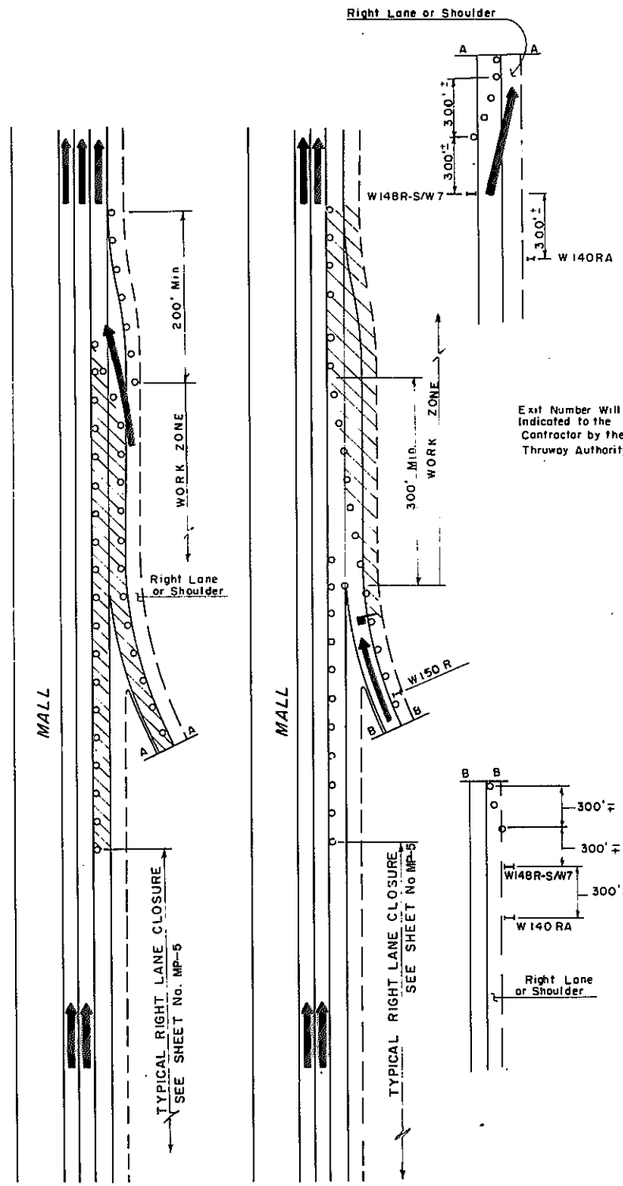
DRAWING No.	SCALE	DATE	REGION
MP-3	1" = 200'	1/79	REGION 1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

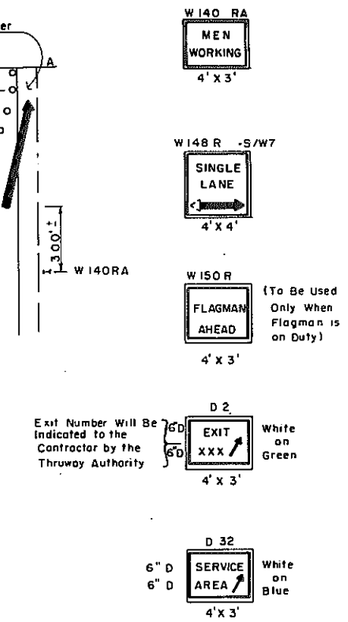
NOTE IF NECESSARY, CONSULT THE DIVISION TRAFFIC SUPERVISOR ON OTHER VARIATIONS

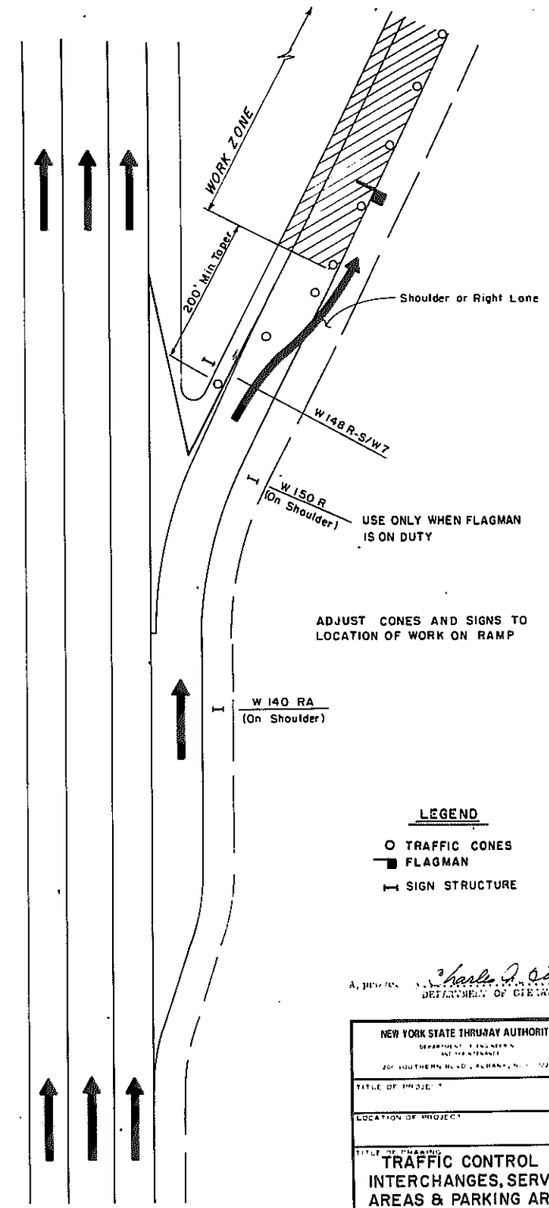


TYPICAL
DECELERATION LANE



TYPICAL
ACCELERATION LANE





TYPICAL
WORK ZONE ON RAMP

LEGEND

- O TRAFFIC CONES
- ■ FLAGMAN
- ⊢ SIGN STRUCTURE

A. DIRECTOR Charles A. Sinn
DEPARTMENT OF OPERATIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT ENGINEERING MAINTENANCE
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT

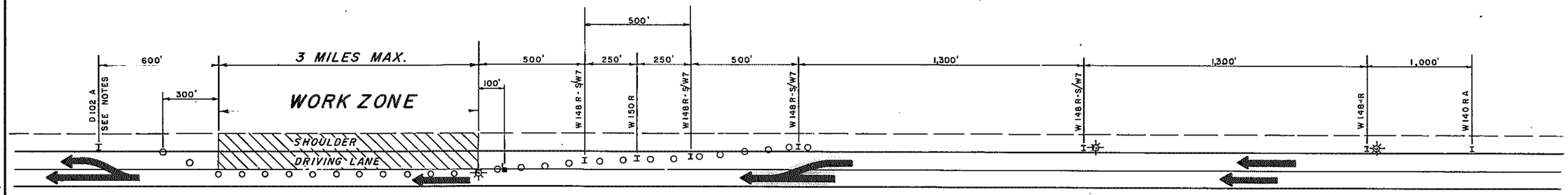
LOCATION OF PROJECT

TITLE OF DRAWING
TRAFFIC CONTROL AT INTERCHANGES, SERVICE AREAS & PARKING AREAS

STD. SHEET
CHECKED BY
DATE 4/79
DRAWING NUMBER MP-4

32 of 291

Revised 1/20/1977
Dwg.No. 23-2-8-DT



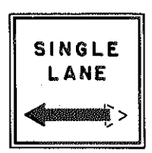
FLASHING LIGHTS(HIGH INTENSITY, FOR NIGHT USE ONLY) or A.O.B.E.
TRAFFIC CONES @ 50' INTERVALS ON TAPER, 132' ON TANGENT
FLAGMAN, TYPICAL LOCATION
SIGNS

8"E
8"D

W 140 RA
4' x 3'

6" C
6" C
6" C

W 148-R
4' x 4'

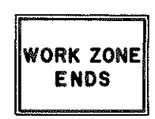


7" C
7" C

W 148 R - S/W7
4' x 4'
MAY CONSIST OF
2 PANELS

7" C
7" C

W 150 R
4' x 3'



8" C
8" C

D 102 A
4' X 3'

NOTES
ALL "W" SERIES SIGNS MAY ALSO BE FOUND IN THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", (LATEST EDITION). ALL "W" SERIES SIGNS WILL BE BLACK ON ORANGE.
SIGN SUPPORTS SHALL BE SUCH AS TO RESIST OVERTURNING IN WINDS OF 100 M.P.H. OR THE PASSAGE OF TRAFFIC, WITH MINIMUM MOUNTING HEIGHT OF 5 FEET TO BOTTOM OF SIGN.
FLAGMAN TO BE PROVIDED AND LOCATED IN THE PATTERN AS DIRECTED BY THE ENGINEER. WHEN USED, A W150R SIGN WILL BE PLACED NOT CLOSER THAN 500 FEET NOR FURTHER THAN 2,600 FEET AHEAD OF FLAGMAN.
ALL FLASHING LIGHTS AS SHOWN ON THIS SHEET SHALL BE PLACED IN OPERATION FROM 1/2 HOUR AFTER SUNSET TO 1/2 HOUR BEFORE SUNRISE OR A.O.B.E.
THIS PLAN SHALL BE USED FOR TRAFFIC IN BOTH DIRECTIONS AS NECESSARY.
THIS PLAN SHALL BE MODIFIED TO A LEFT LANE CLOSURE BY PLACING THE SIGNS ON THE LEFT SIDE OF THE ROADWAY, CHANGING THE DIRECTION OF THE ARROWS, AND CHANGING THE W148-R SIGN TO A W148-L SIGN
THE LOCATION OF THE TRAFFIC SIGNS AND CONES SHALL BE SUBJECT TO REVIEW BY THE DIVISION TRAFFIC SUPERVISOR BEFORE INSTALLATION FOR EXACT POSITIONING.
THE W140RA SIGN WILL BE REMOVED OR TURNED FROM VIEW DURING NON-WORKING HOURS.
ALL REFLECTORIZED SIGN BACKGROUNDS, AND LEGENDS SHALL BE CLASS "B" REFLECTIVE SHEETING.

Approved: Charles A. Rizzo
DEPARTMENT OF OPERATIONS

NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING AND MAINTENANCE
200 SOUTH PEARL BLVD., ALBANY, N.Y. 12204

TITLE OF PROJECT

LOCATION OF PROJECT

TITLE OF DRAWING
2 LANE THRUWAY
TRAFFIC CONTROL PLAN

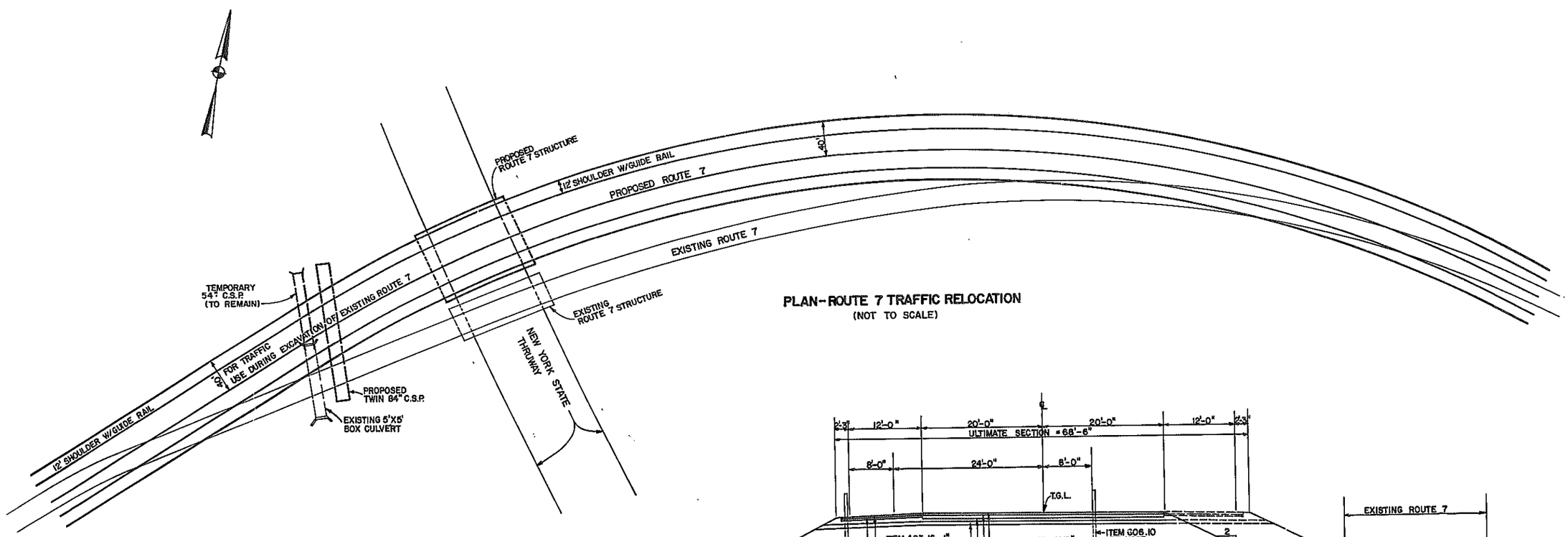
STD. SHEET
CHECKED BY
DATE 4/79
DRAWING NUMBER
MP-5

Revised: 1/20/77
Dwg. No 23-2-2-DT

D96243

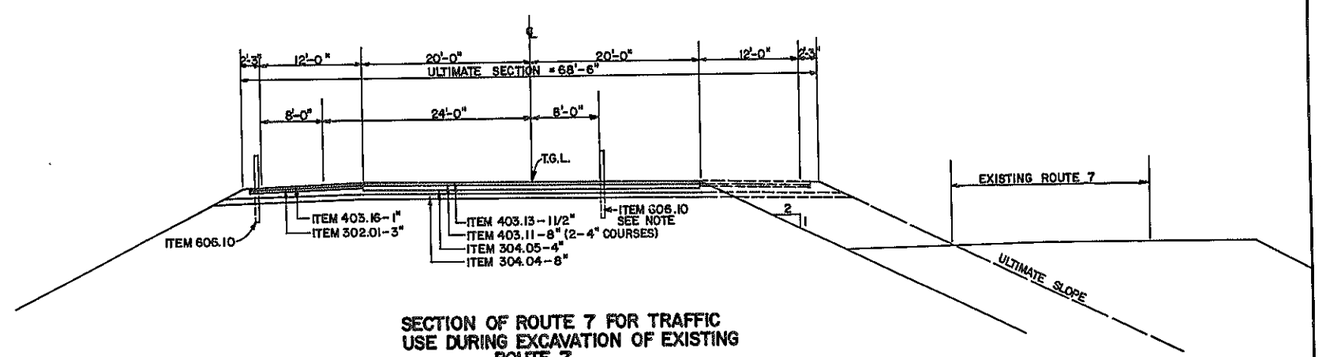
FED. RO&D REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	348	264

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY- DUANESBURG, PART 1, S.H.880
SCHENECTADY COUNTY



PLAN-ROUTE 7 TRAFFIC RELOCATION
(NOT TO SCALE)

SUGGESTED
FOR CONSTRUCTION SEQUENCE
SEE DWG. NO. ~~T-1~~ MP-6



SECTION OF ROUTE 7 FOR TRAFFIC USE DURING EXCAVATION OF EXISTING ROUTE 7
(NOT TO SCALE)

NOTE: TOP COURSE NOT TO BE PLACED UNTIL THE SECTION IS COMPLETED. TRAFFIC WILL RUN ON THE BINDER COURSE DURING THE STAGED CONSTRUCTION.

~~THE BOX BEAM GUIDE RAILING SHALL BE REMOVED AND RESET. ITEM 606.50 UPON COMPLETION OF THE ULTIMATE ROUTE 7 SECTION.~~

REVISIONS

TEMPORARY TRAFFIC RELOCATION ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

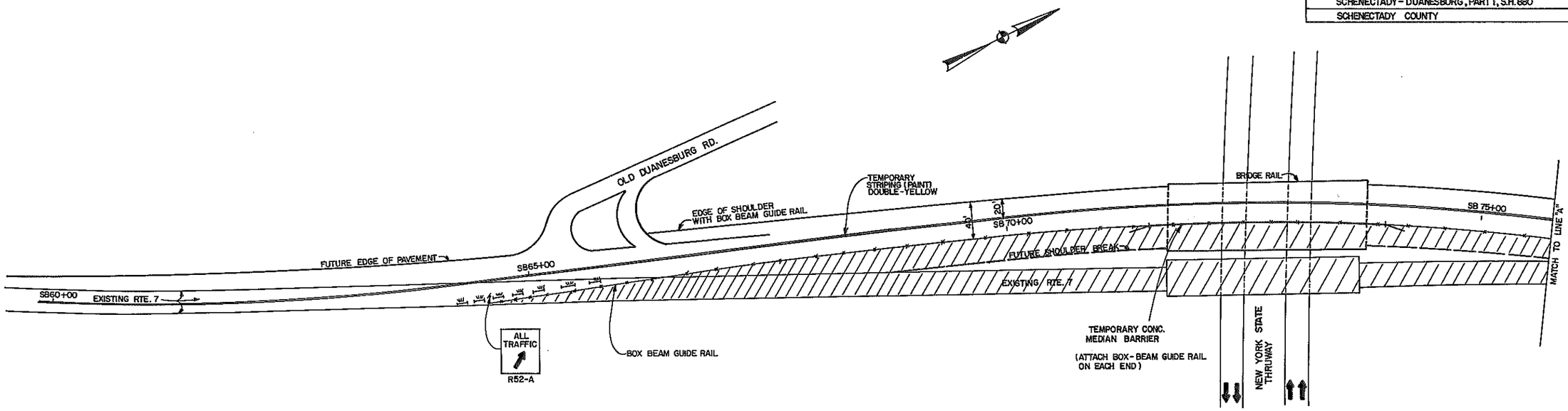
DRAWING No.	SCALE	DATE	REGION
MP-6	AS SHOWN	4/79	REGION 1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
BC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	35	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART I, S.H. 680
SCHENECTADY COUNTY



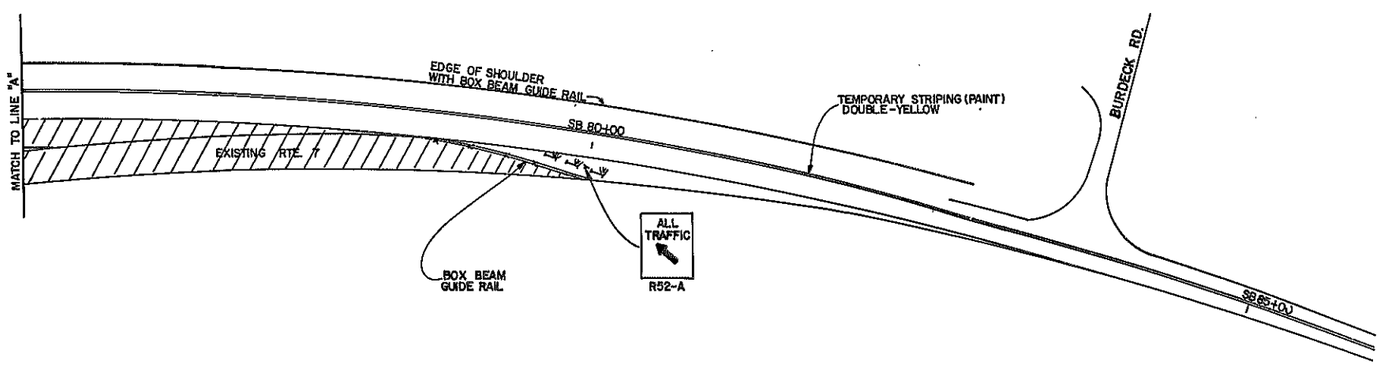
NOTES: 1.) LEGEND — TYPE III BARRICADE WITH FLASHING BEACON
SIGN
WORK AREA

2.) FOR CONSTRUCTION DETAILS AND PAVEMENT CROSS SECTION SEE DWG. NO.

3.) ORIENT SIGN TO PREVENT RTE. 7 THRU TRAFFIC FROM TURNING TO OLD DUANESBURG RD.

4.) NUMBERS UNDER SIGNS INDICATE REFERENCE TO N.Y.S. M.U.T.C.D.

5.) TEMPORARY CONC. MEDIAN BARRIER TO BE ANCHORED ON EACH SIDE OF BRIDGE DECK, NOT ON DECK ITSELF. SLACK SHALL BE REMOVED FROM JOINTS BEFORE LAST END IS ANCHORED.



MAINTENANCE AND PROTECTION OF TRAFFIC
ROUTE 7 STRUCTURE OVER N.Y.S. THRUWAY

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
MP-7	1" = 50'	6/79	REGION I

DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

RE 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	3681	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY- DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

GENERAL NOTE REGARDING ROUTE 7
CONSTRUCTION SEQUENCE AND MAINTENANCE OF TRAFFIC

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THE ONLY SPECIFIC SEQUENCE OF OPERATIONS DETAILED IN THE PLANS IS THE SUGGESTED TRAFFIC SHIFT NECESSARY TO CONSTRUCT PROPOSED ROUTE 7 AND REMOVE THE EXISTING EMBANKMENT AND STRUCTURE IN THE VICINITY OF THE NYS THRUWAY. THERE IS NOT A SUGGESTED SEQUENCE OF OPERATIONS FOR THE REMAINDER OF THE ROUTE 7 CONSTRUCTION. HOWEVER ALL CONTRACT OPERATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 619 OF THE STANDARD SPECIFICATIONS, THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE FOLLOWING NOTES:

1) THE CONTRACTOR SHALL MAINTAIN TWO WAY TRAFFIC DURING NON-WORKING HOURS ON ALL EXISTING ROADS WITHIN THE CONTRACT WORK LIMITS THROUGHOUT THE DURATION OF THE CONTRACT.

2) THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS SO THAT TRAFFIC WILL BE MAINTAINED ON A PAVED SURFACE DURING THE WINTER MONTHS.

3) DURING WORKING HOURS THE CONTRACTOR MAY, WITH THE APPROVAL OF THE ENGINEER, RESTRICT TRAFFIC TO ONE LANE OPERATION. IN THIS EVENT THE CONTRACTOR MAY, AT THE DISCRETION OF THE ENGINEER, BE REQUIRED TO SUBMIT A DETAILED PLAN OF THE PROPOSED TRAFFIC CONTROLS FOR THE REVIEW AND APPROVAL OF THE ENGINEER. TRAFFIC OPERATIONS WHEN RESTRICTED TO A ONE LANE OPERATION SHALL CONFORM TO SUBCHAPTER G AND THE APPROPRIATE FIGURES IN APPENDIX 7 OF THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL ADHERE CLOSELY TO SUBSECTION 619-3.01 OF THE STANDARD SPECIFICATIONS, WITH THE UTMOST CARE AND DILIGENCE GIVEN TO PARAGRAPHS ON DUST CONTROL AND TRAFFIC CONTROL.

4) THE CONTRACT PLANS CALL FOR SHIFTING ROUTE 7 TRAFFIC FROM EXISTING ROUTE 7 TO RELOCATED ROUTE 7 IN THE VICINITY OF THE PROPOSED STRUCTURE OVER THE THRUWAY. TWO WEEKS PRIOR TO SHIFTING THIS TRAFFIC THE CONTRACTOR SHALL SUBMIT A COMPLETE AND DETAILED TRAFFIC FLOW PLAN FOR THE REVIEW AND APPROVAL OF THE ENGINEER. THIS PLAN SHALL DETAIL THE LOCATION OF ALL SIGNS, BARRICADES, LIGHTS, BARRELS, CONES, DELINEATORS, GUIDE RAIL AND OTHER GUIDING DEVICES, INCLUDING PAVEMENT DELINEATION, IN ACCORDANCE WITH SECTION 619 OF THE STANDARD SPECIFICATIONS AND THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE MAINTENANCE AND PROTECTION OF TRAFFIC PLAN AS DETAILED ON MP-7 WAS DEVELOPED IN ACCORDANCE WITH THE M.U.T.C.D. AND THE STANDARD SPECIFICATIONS. IT IS SUGGESTED THAT THE CONTRACTORS PLAN BE IN CLOSE CONFORMANCE WITH THIS PLAN. THE SECTION AS DETAILED ON DWG. NO. MP 6 WILL ULTIMATELY BECOME THE FINAL ROUTE 7 TYPICAL SECTION AND THEREFORE ALL ITEMS OF CONSTRUCTION WILL BE PAID FOR AS SHOWN ON THE ROUTE 7 TYPICAL SECTION AS SHOWN ON DWG. NO. TY-14.

5) THE ITEMS OF WORK INCLUDED IN THIS CONTRACT FOR USE IN GENERAL MAINTENANCE AND PROTECTION OF TRAFFIC ARE:

ITEM 619.01 - BASIC MAINTENANCE AND PROTECTION OF TRAFFIC
ITEM 619.02 - CONSTRUCTION SIGNS
ITEM 619.0413 - TYPE III CONSTRUCTION BARRICADES
ITEM 619.0501 - LIGHTING FOR CONSTRUCTION BARRICADES
ITEM 619.10 - MAILBOXES
ITEM 619.12 - WATCHMEN SERVICE, REQUIREMENT A
ITEM 619.15 - PAVEMENT DELINEATION
ITEM 619.1601 - MAINTAIN TRAFFIC SIGNAL EQUIPMENT
ITEM 619.17 - TEMPORARY CONCRETE BARRIER
ITEM 619.1101- OPENING HWY. TO TRAFFIC PRIOR TO CONTR. ACCEPTANCE.

6) IT IS THE INTENT OF THESE PLANS THAT A SECTION OF PROPOSED ROUTE 7 AND THE NEW STRUCTURE WILL BE USED TO SHIFT TRAFFIC SO THAT THE EXISTING ROUTE 7 EMBANKMENT AND STRUCTURE MAY BE REMOVED. THE CONTRACTOR MAY ELECT TO FOLLOW THE SEQUENCE OF OPERATIONS AS OUTLINED BELOW OR MAY SUBMIT A DIFFERENT PLAN TO THE ENGINEER. REGARDLESS OF CHOICE THE CONTRACTOR SHALL CONFORM TO NOTE 4 AND SUBMIT A PLAN TO THE ENGINEER FOR APPROVAL.

7) FOLLOWING IS A SUGGESTED SEQUENCE OF OPERATIONS FOR ROUTE 7 IN THE VICINITY OF THE NYS THRUWAY. SEE DWG. NO. MP6 FOR A LAYOUT.

CONSTRUCTION SEQUENCE FOR ROUTE 7

STAGE NO. 1 - THE CONTRACTOR SHALL INSTALL THE 54" PIPE INTO THE UPSTREAM END OF THE EXISTING 5' x 5' BOX CULVERT AND DIVERT THE EXISTING STREAM INTO THE CULVERT IN ORDER TO INSTALL THE NEW TWIN 84" CULVERTS.

STAGE NO. 2 - THE CONTRACTOR SHALL INSTALL A SUFFICIENT LENGTH OF THE NEW TWIN 84" CULVERTS SO THAT THE DOWNSTREAM END CAN BE EASILY LOCATED AND EXPOSED WHEN THE EXISTING ROUTE 7 EMBANKMENT IS EXCAVATED.

STAGE NO. 3 - THE CONTRACTOR SHALL PLACE THE NEW ROUTE 7 EMBANKMENT ON BOTH SIDES OF THE NYS THRUWAY AND PLACE THE BASE AND BINDER COURSES OF THE PAVEMENT IN ACCORDANCE WITH THE RTE. 7 TYPICAL SECTION SHOWN ON DWG. NO. MP6. ALL TRAFFIC SHALL REMAIN ON EXISTING ROUTE 7 UNTIL THE NEW ROUTE 7 STRUCTURE, EMBANKMENT AND PAVEMENT SECTION ARE COMPLETE AS DETAILED ON THE RTE. 7 TYPICAL SECTION. IN CONJUNCTION WITH THE CONSTRUCTION OF ROUTE 7 THE CONTRACTOR SHALL COMPLETE THE OLD DUANESBURG CONNECTION SO THAT IT MAY BE USED BY TRAFFIC WHEN THE TRAFFIC IS SHIFTED.

STAGE NO. 4. - THE CONTRACTOR SHALL INSTALL BOX BEAM GUIDE RAILING AS SHOWN ON THE SECTION ON MP-6. THE GUIDE RAILING INSTALLED ON THE LEFT SHALL BECOME THE FINAL INSTALLATION. THE GUIDE RAILING SHOWN ON THE RIGHT SHALL BE REMOVED AND RESET TO THE FINAL LOCATION AS SHOWN ON DWG. NO. TY-14 UPON COMPLETION OF THE ULTIMATE ROUTE 7 SECTION. THE CONTRACTOR SHALL INSTALL TEMPORARY PRECAST CONCRETE BARRIER ACROSS THE NEW STRUCTURE AS SHOWN ON MP-7. THE BARRIER SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 619-3.03 OF THE STANDARD SPECIFICATIONS AND PAID FOR UNDER ITEM 619.17. ANY DAMAGE DONE TO THE STRUCTURE WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN COST.

STAGE NO. 5 - THE CONTRACTOR SHALL UTILIZE 40' OF THE NEW PAVEMENT INCLUDING THE LEFT SHOULDER AS THE DETOUR.

STAGE NO. 6 - THE CONTRACTOR SHALL, AFTER MOVING THE TRAFFIC TO NEW ROUTE 7, REMOVE THE EXISTING STRUCTURE AND EXISTING ROUTE 7 EMBANKMENT, COMPLETE THE INSTALLATION OF THE TWIN 84" CULVERTS, REMOVE THE EXPOSED PORTION OF THE EXISTING 5' x 5' BOX CULVERT, PLUG THE END OF THE BOX AND THE 54" PIPE AND COMPLETE NEW ROUTE 7 TO THE DESIGN TYPICAL SECTION.

8) IN THE EVENT THE CONTRACTOR PLANS TO CONSTRUCT A DETOUR NOT SHOWN ON THE CONTRACT PLANS HE SHALL COMPLY WITH ALL THE REQUIREMENTS SET FORTH IN PARA. 4 OF THIS NOTE WITH THE FOLLOWING EXCEPTION: ALL COST INCURRED WITH THE CONSTRUCTION OF THE DETOUR SHALL BE INCLUDED IN HIS PRICE BID FOR BASIC MAINTENANCE AND PROTECTION OF TRAFFIC.

9) ALL PLANS SUBMITTED BY THE CONTRACTOR IN ACCORDANCE WITH THE ABOVE NOTES SHALL ALSO BE SUBMITTED TO, AND SUBJECT TO THE APPROVAL OF, THE N.Y.S.D.O.T. REGIONAL TRAFFIC ENGINEER.

10) THE CONTRACTOR SHALL BE ADVISED THAT THE MAINTENANCE AND PROTECTION OF TRAFFIC ON THE N.Y.S. THRUWAY SHALL BE PAID FOR UNDER ITEM 619.01 WITH ADDITIONAL GENERAL NOTES. THE CONTRACTOR SHALL SUBMIT HIS BID ACCORDINGLY.

GENERAL NOTES NEW YORK STATE THRUWAY
MAINTENANCE AND PROTECTION OF TRAFFIC

THE CONTRACTORS ATTENTION IS DIRECTED TO THE FACT THAT SECTION 619 - MAINTENANCE AND PROTECTION OF TRAFFIC OF THE STANDARD SPECIFICATION SHALL APPLY FOR WORK ON THE N.Y.S. THRUWAY WITH ADDITIONAL REQUIREMENTS SET FORTH BELOW AND IN THE PROPOSAL.

THE "THRUWAY TRAFFIC PLAN" INCLUDED IN THE CONTRACT PLANS SHALL NOT BE MODIFIED, EXCEPT IN AN EMERGENCY, UNTIL SUCH MODIFICATIONS HAVE BEEN APPROVED BY THE ENGINEER, THE N.Y.S. D.O.T. REGIONAL TRAFFIC ENGINEER AND THE N.Y.S. THRUWAY AUTHORITY.

TWO WEEKS PRIOR TO THE CONTRACTORS BEGINNING ANY WORK ON THE THRUWAY, THE CONTRACTOR SHALL SUBMIT A DETAILED SEQUENCE OF OPERATIONS AND MAINTENANCE PLAN TO THE ENGINEER, N.Y.S.D.O.T. REGIONAL TRAFFIC ENGINEER AND N.Y.S. THRUWAY AUTHORITY FOR REVIEW AND APPROVAL. THIS PLAN SHALL BE IN CONFORMANCE WITH THE "THRUWAY TRAFFIC PLAN" AND SHALL SHOW THE LOCATION OF ALL SIGNS, BARRICADES, LIGHTS, BARRELS, CONES, DELINEATORS, GUIDE RAIL AND ANY OTHER GUIDING DEVICES, INCLUDING PAVEMENT DELINEATION IN ACCORDANCE WITH SECTION 619 OF THE STANDARD SPECIFICATIONS, AND THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

THE CONTRACTOR WILL HAVE ACCESS TO THE N.Y.S. THRUWAY FROM THE PROJECT. RIGHT ANGLE CROSSINGS OF THE THRUWAY INTO THE MALL OR DISTANCE SIDE OF THE THRUWAY WILL NOT BE PERMITTED. ALL ENTERING TRAFFIC WILL CAREFULLY TURN INTO THE TRAFFIC FLOW AND PROCEED TO THE NEAREST EXISTING TURNAROUND. NO NEW TURNAROUNDS ARE TO BE CONSTRUCTED. USE OF THE TURNAROUND WILL BE AS DESCRIBED IN THE N.Y.S. THRUWAY REGULATIONS GOVERNING OCCUPANCY PERMITS. THE CONTRACTOR WILL BE REQUIRED TO SECURE A PERMIT FOR THE USE OF TURNAROUNDS FROM THE THRUWAY AUTHORITY. THE USE OF THESE TURNAROUNDS IS TO BE LIMITED AND THE ENGINEER OR N.Y.S. THRUWAY AUTHORITY MAY REVOKE THIS PRIVILEGE AT ANY TIME IF IT IS ABUSED BY THE CONTRACTOR. THE CONTRACTOR WILL NOT USE THE THRUWAY FOR HAULING MATERIALS SUCH AS: EMBANKMENT, GRAVEL, OR CONCRETE FOR PAVING WHICH WILL CAUSE A LARGE NUMBER OF VEHICLES TO USE THE TURNAROUNDS. THE USE OF THESE TURNAROUNDS IS INTENDED FOR THE PURPOSE OF TRANSFER OF PERSONNEL FROM ONE SIDE TO THE OTHER OF THE THRUWAY AND FOR WORK IN THE MALL. ALL OTHER CONSTRUCTION TRAFFIC WILL USE ROUTE 7 OR ADJACENT THRUWAY INTERCHANGES. IF THE CONTRACTOR WISHES TO USE THE TURNAROUND AT MP 159.6, HE MUST RECONSTRUCT IT TO CURRENT STANDARDS, INCLUDING THE CONSTRUCTION OF DECELERATION AND ACCELERATION LANES AS SHOWN ON SHEET TY-18.

CROSSING OR ENTERING THE MALL WHERE A TURNAROUND DOES NOT EXIST WILL BE PERMITTED ONLY FOR CONSTRUCTION OF THE CENTER PIERS FOR THE ROUTE 7 AND RAMP RT BRIDGES. FURTHERMORE, ALL SUCH ENTRIES OR CROSSINGS WILL BE PERMITTED ONLY WHEN A MALL LANE CLOSURE IS IN EFFECT. MALL ENTRIES SHALL BE MADE PARALLEL TO TRAFFIC USING THE CLOSED LANE AS A DECELERATION LANE. ALL DAMAGE RESULTING FROM CONTRACTOR'S TRAFFIC IN THE MALL WILL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE N.Y.S. THRUWAY AUTHORITY.

WHEN THE CONTRACTOR COMMENCES WORK ON THE MEDIAN PIERS FOR THE NEW ROUTE 7 STRUCTURE AND THE RT STRUCTURE THE EXISTING GUIDE RAIL AT THE ROUTE 7 STRUCTURE SHALL BE REMOVED AND TEMPORARY PRECAST CONCRETE BARRIER SHALL BE INSTALLED AT BOTH LOCATIONS IN SUFFICIENT LENGTH TO PROTECT THE EXISTING ROUTE 7 PIER AND WORKSITE AND THE WORKSITE AT THE RT PIER.

THE CONTRACTOR WILL NOT WORK ON BOTH SIDES OF A LANE OF THE THRUWAY SIMULTANEOUSLY WHEREBY HE WOULD HAVE TO MAINTAIN TRAFFIC CONTROL.

PRIOR TO COMMENCING WORK ON THE RP, RK, RL, AND RM RAMPS IN THE AREAS ADJACENT TO THE THRUWAY PAVEMENT, THE CONTRACTOR SHALL SUBMIT A MAINTENANCE PLAN SHOWING OVERNIGHT TRAFFIC PROTECTION. THIS PLAN SHALL BE SUBMITTED IN ACCORDANCE WITH PARAGRAPH 3 ABOVE.

THE CONTRACTORS ATTENTION IS DIRECTEO TO THE FACT THAT THE POINT OF ACCESS FOR WORK ON THE EAST SIDE OF THE THRUWAY WILL BE AT THE END OF OLD DUANESBURG ROAD AT THE THRUWAY R.O.W.

ITEM 619.10- MAILBOXES

STATION	SIDE	NO.	STATION	SIDE	NO.
SB 46+70	LT	1	~~ODW 15+25~~	~~LT~~	~~1~~
SB 49+60	LT	1	SB 65+40	RT	1
SB 50+40	LT	1	SB 65+70	RT	2
SB 54+20	LT	1	ODW 10+85	LT	2
SB ~~54+25 to 115~~	RT	3	ODW 12+15	LT	1
SB 57+83	LT	2	BR 12+90	RT	1
SB 58+10	RT	1	SB 83+42	RT	1
SB 58+40	RT	1	SB 84+80	LT	1
SB 58+78	LT	1	SB 87+00	LT	1
SB 59+45	LT	1	SB 88+25	LT	1
SB 59+60	RT	1	SB 89+20	LT	1
SB 59+95	LT	1	SB 90+05	LT	1
SB 60+20	LT	1	SB 90+42	RT	1
SB 60+40	RT	1	SB 90+60	LT	1
SB 60+90	LT	1	SB 91+30	RT	1
SB 61+05	RT	1	SB 91+65	RT	1
SB 61+50	LT	1	SB 91+65	LT	1
SB 62+20	RT	1	SB 92+43	LT	2
SB 63+95	RT	1	SB 92+90	RT	1
SB 64+05	LT	1	SB 93+87	RT	1
SB 64+15	RT	1	SB 93+90	LT	1
~~SB 88+50~~	~~RT~~	~~2~~	~~SB 11+35~~	~~LT~~	~~1~~
~~ODW 12+20~~	~~LT~~	~~1~~		TOTAL	~~46~~ 52

ITEM 619.15 -PAVEMENT DELINEATION

LOCATION	L.F.
ROUTE 7 BURDECK ROAD	~~14560~~ 15110 ~~1050~~ 1565
TOTAL	~~15610 L.F.~~ ~~33675 L.F.~~

ITEM 619.17- TEMPORARY PRECAST CONCRETE BARRIER

STATION TO STATION	SIDE	L.F.
~~SB71+50 TO SB74+00~~	~~RT.~~	~~250 L.F.~~
~~TH6083+50 TO TH6086+00~~	~~LT. EB~~	~~250 L.F.~~
~~TH6083+50 TO TH6086+00~~	~~LT. WB~~	~~250 L.F.~~
~~TH6099+00 TO TH6102+00~~	~~LT. EB~~	~~300 L.F.~~
~~TH6099+00 TO TH6102+00~~	~~LT. WB~~	~~300 L.F.~~
	~~TOTAL~~	~~1350 L.F.~~
TH 6083+20 TO TH 6086+80	LT.-WB	340 L.F.
TH 6099+00 TO TH 6102+20	LT.-WB	320 L.F.
TH 6083+00 TO TH 6085+50	LT.-EB	260 L.F.
TH 6099+00 TO TH 6101+20	LT.-EB	220 L.F.
D&H RR BRIDGE		120 L.F.
RTE. 7 BRIDGE		480 L.F.
	TOTAL	1740 L.F.

REVISION IN TABLES
ITEMS 619.10, 619.15, 619.17

GENERAL MAINTENANCE AND PROTECTION OF TRAFFIC NOTES AND TABLES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
MP-8	NONE	7/79	REGION I

DATE ____ DRAFTED BY ____ CHECKED BY ____ CHECKED BY ____ DESIGNED BY ____ ESTIMATED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	37	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

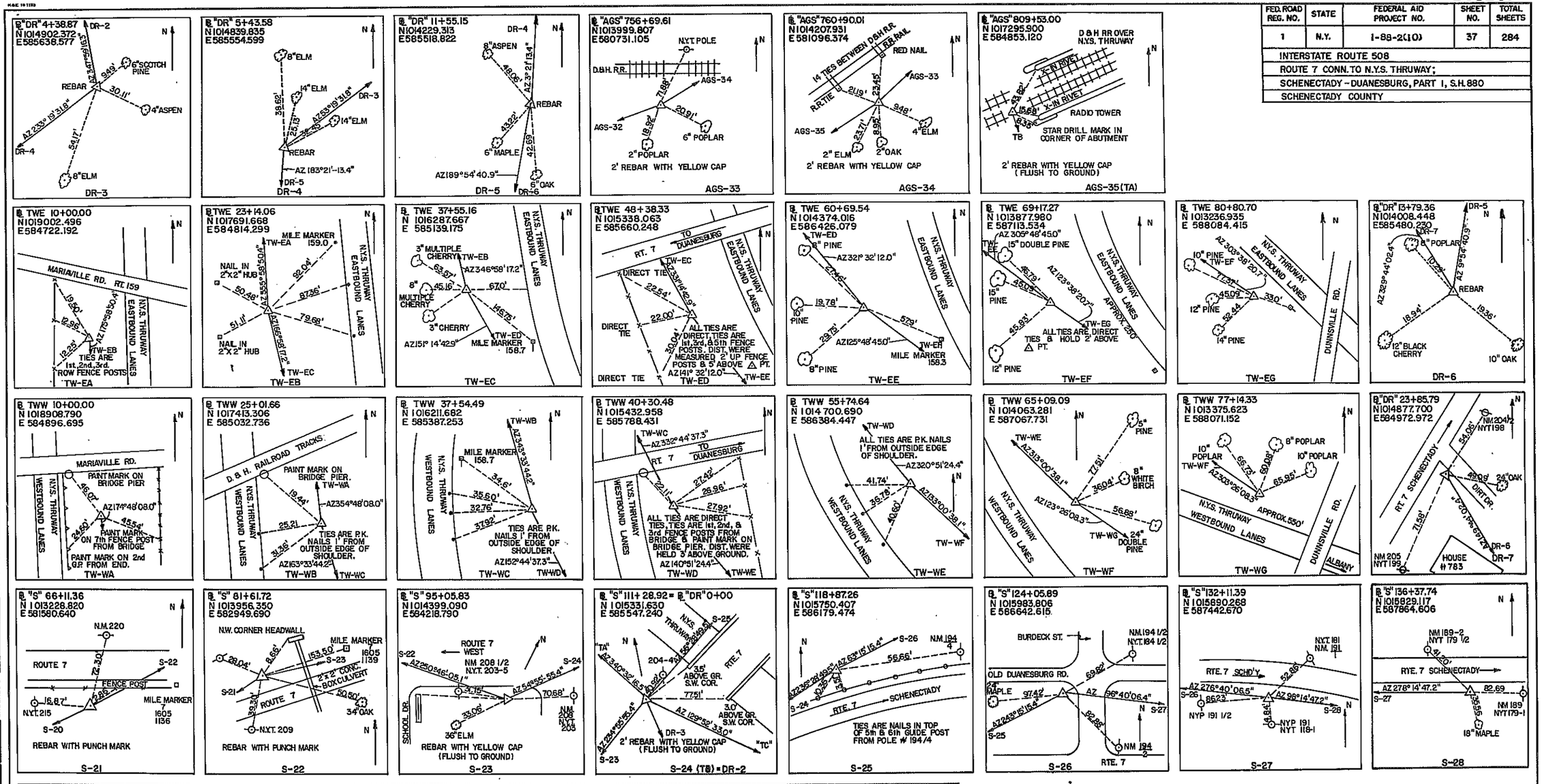


TABLE OF BENCHMARKS

BM. NO.	℄ STATION	OFFSET	DESCRIPTION	ELEV.
AGS-17	AGS 758+35	25' LT.	S.E. NUT ON BASE OF RAILROAD CONTROL BOX ON NORTH SIDE OF TRACKS.	417.04
AGS-18	AGS 770+90	50' LT.	R.R. SPIKE IN POLE # 515 ON NORTH SIDE OF TRACKS	403.57
AGS-19	AGS 777+90	50' LT.	R.R. SPIKE IN POLE ON NORTH SIDE OF TRACKS.	396.96
S-30	S 99+45.82	36' RT.	SPIKE IN POLE NM 206 1/2 & N.Y.T. 200-5 ON SOUTH SIDE OF ROUTE 7.	348.26
S-31	——	——	SPIKE IN TELEPHONE POLE NM 201 1/2 ON OLD ROUTE 7.	346.62
TA-1	——	——	SPIKE IN 18" POPLAR 10' SOUTH OF N.Y.S. THRUWAY MILEPOST MARKER 158.9 AND 92' WEST OF SOUTHBOUND LANE.	348.77
TA-2	——	——	SPIKE IN 15" POPLAR, 389' SOUTH OF N.Y.S. THRUWAY MILEPOST MARKER 158.7 AND 72' WEST OF SOUTHBOUND LANE.	345.68

TABLE OF BENCHMARKS

BM. NO.	℄ STATION	OFFSET	DESCRIPTION	ELEV.
TB-1	——	——	SPIKE IN 15" BIRCH, 370' SOUTH OF N.Y.S. THRUWAY MILEPOST MARKER 158.4 AND 66' WEST OF SOUTHBOUND. LANE.	354.33
TB-2	——	——	SPIKE IN 15" PINE, 10' NORTH OF N.Y.S. THRUWAY MILEPOST MARKER 158.1 AND 49' WEST OF SOUTHBOUND LANE.	336.65
TC-1	——	——	SPIKE IN POWER POLE # 540 & N.Y.T. # 23, 40' SOUTH OF N.Y.S. THRUWAY MILEPOST MARKER 157.8 AND 158' WEST OF SOUTHBOUND LANE.	331.28
TC-2	——	——	SPIKE IN 12" POPLAR, 171' SOUTH OF N.Y.S. THRUWAY MILEPOST MARKER 157.5 AND 56' WEST OF SOUTHBOUND LANE.	310.07

HORIZONTAL CONTROL IS BASED ON THE 1927 ADJUSTMENT DATUM, N.Y.S. SYSTEM OF PLANE COORDINATES, EAST ZONE, UTILIZING EXISTING U.S. COAST AND GEODETIC SURVEY MONUMENTS.

NOTE: ELEVATIONS OF ALL USGS AND USC & GS BENCHMARKS ARE BASED ON N.Y.S.D.O.T. 1972 ADJUSTMENTS. THEREFORE USGS AND USC & GS BENCHMARKS SHOULD NOT BE USED IN CONNECTION WITH THIS PROJECT.

BASELINE TIES AND TABLE OF BENCHMARKS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
BT-1	NONE	4/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
RE 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	38	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

UTILITY DISPOSITION TABLE

REF. NO.	LOCATION	OWNER	DESCRIPTION	DISPOSITION
1A	RTE 7, STA 46+40± RT TO 65+30± RT & RT ANGLE CROSSING OF RTE 7 AT STA 65+30± TO SOUTH SIDE OF OLD DUANESBURG RD TO STA ODW 13+20± RT	TOWN OF ROTTERDAM	12" CIP WATER MAIN, FIRE HYDRANTS AND MISC VALVES AND CURB STOPS	TO BE RELOCATED TO NORTH SIDE OF ROUTE 7 AND NORTH SIDE OF OLD DUANESBURG RD. EXISTING MAIN TO BE ABANDONED IN PLACE.
2A	RTE 7, STA 65+30± RT TO 66+20±	TOWN OF ROTTERDAM	4" CIP WATER MAIN	RELOCATE WATER SERVICE WITH 6" DIP WATER MAIN CROSSING RTE 7 AT STA 63+46± TO 66+20± RT. ADD FIRE HYDRANT AT STA 66+20± ABANDON EXISTING 4" CIP WATER MAIN
3A	RTE 7, STA 89+40± LT W/RT ANGLE CROSSING OF RTE 7 TO STA ~~89+40±~~ RT & PARALLEL TO RTE 7 TO STA. 83+30 RT.	TOWN OF ROTTERDAM	6" CIP WATER MAIN, FIRE HYDRANT AND VALVES	RELOCATE ON SAME SIDE OF RTE. 7
4A	NEW YORK STATE THRUWAY - STA 6098+20± AT RT ANGLE	TOWN OF ROTTERDAM	12" CIP WATER MAIN	PORTION UNDER NEW DITCH LINE TO BE LOWERED IN PLACE. PORTION UNDER N.Y.S. THRUWAY TO REMAIN IN PLACE UNDISTURBED.
5A	EAST SIDE N.Y.S. THRUWAY, STA 6075+00± TO 6099+00±	TOWN OF ROTTERDAM	8" PVC WATER MAIN	TO BE RELOCATED ON EAST SIDE OF THRUWAY.
1B	RTE 7, STA 45+75± LT TO 50+75+ LT AND A SKEWED CROSSING OF RTE 7 TO: STA 53+00± RT	NIAGARA MOHAWK POWER CORP.	AERIAL DISTRIBUTION LINE	TO BE RELOCATED BY OTHERS
2B	RTE 7, STA 46+42± RT TO 65+35, RT ANGLE CROSSING OF ROUTE 7 TO REPEATER ON SOUTH SIDE OF OLD DUANESBURG ROAD AND ALONG OLD DUANESBURG ROAD TO NYS THRUWAY	NEW YORK TELEPHONE COMPANY	UNDERGROUND TELEPHONE DISTRIBUTION LINE	TO BE ABANDONED BY OTHERS
3B	RTE 7 STA 64+00± TO NYS THRUWAY ALONG SOUTH SIDE OF OLD DUANESBURG ROAD, INCLUDING REPEATER	NEW YORK TELEPHONE COMPANY	AERIAL DISTRIBUTION LINE	AERIAL SERVICE TO BE ABANDONED. REPEATER TO BE RELOCATED.
4B	RIGHT ANGLE TO AND CROSSING N.Y.S. THRUWAY AT THRUWAY STA 6098+00±	NEW YORK TELEPHONE CO. AND NIAGARA MOHAWK POWER CORP.	UNDERGROUND SERVICE LINE	TO BE RELOCATED ON NEW ROUTE 7 STRUCTURE BY OTHERS. ABANDON LINES UNDER THRUWAY. TEMPORARY RISERS NECESSARY DURING CONSTRUCTION.
5B	RTE 7, STA 46+42± RT TO 53+00± RT	NEW YORK TELEPHONE COMPANY	AERIAL DISTRIBUTION LINES	TO BE RELOCATED BY OTHERS
6B	RTE 7, STA 53+00± RT TO 64+00± RT	NEW YORK TELEPHONE CO AND NIAGARA MOHAWK POWER CORP	JOINT AERIAL DISTRIBUTION LINES	TO BE RELOCATED BY OTHERS
7B	RTE 7, STA 57+75± RT TO STA 57+90± LT TO 60+95± LT	NIAGARA MOHAWK POWER CORP	AERIAL DISTRIBUTION LINE	TO BE RELOCATED BY OTHERS
8B	RTE 7, STA 64+00± RT TO 66+00± RT	NIAGARA MOHAWK POWER CORP	AERIAL DISTRIBUTION LINE	TO BE RELOCATED BY OTHERS
9B	RTE 7, STA 65+90± LT TO 86+35± LT	NIAGARA MOHAWK POWER CORP	AERIAL DISTRIBUTION LINE	TO BE RELOCATED BY OTHERS
10B	RTE 7, STA 89+00± RT TO 94+00±	NIAGARA MOHAWK POWER CORP AND NEW YORK TELEPHONE COMPANY	JOINT AERIAL DISTRIBUTION LINES	TO BE RELOCATED BY OTHERS
11B	BR 11+50 LT TO BR 15+00 LT	NEW YORK TELEPHONE CO. AND NIAGARA MOHAWK POWER CORP	JOINT AERIAL DISTRIBUTION LINES	TO BE RELOCATED BY OTHERS

REF. NO.	LOCATION	OWNER	DESCRIPTION	DISPOSITION
1-C	OLD DUANESBURG RD. LT. FROM ROUTE 7 INT. TO N.Y.S. THRUWAY	NEW YORK TELEPHONE CO.	UNDERGROUND SERVICE LINE	REMAIN IN SERVICE UNDISTURBED
2-C	OLD DUANESBURG RD. RT. FROM ROUTE 7 INT. TO N.Y.S. THRUWAY	NIAGARA MOHAWK POWER CORP.	AERIAL DISTRIBUTION LINE	REMAIN IN SERVICE UNDISTURBED
3-C	FROM EAST SIDE OF N.Y.S. THRUWAY ALONG NORTH SIDE OF OLD DUANESBURG RD. TO ROUTE STA. 89+00 LT.	NIAGARA MOHAWK POWER CORP. AND NEW YORK TELEPHONE CO.	AERIAL DISTRIBUTION LINES	REMAIN IN SERVICE UNDISTURBED
4-C	FROM EAST SIDE OF N.Y.S. THRUWAY ALONG NORTH SIDE OF OLD DUANESBURG ROAD TO POLE AT BR 11+40 RT. POLE NO. NM 194-1/2	NEW YORK TELEPHONE CO.	UNDERGROUND DISTRIBUTION LINE	REMAIN IN SERVICE UNDISTURBED
5-C	FROM ODW 11+90 RT TO N.Y.S. THRUWAY	TOWN OF ROTTERDAM	12" C.I.P. WATER MAIN	REMAIN IN SERVICE UNDISTURBED
6-C	FROM EAST SIDE OF N.Y.S. THRUWAY TO VALVE AT BR 11+50 RT.	TOWN OF ROTTERDAM	12" C.I.P. WATER MAIN	REMAIN IN SERVICE UNDISTURBED
7-C	FROM BR 11+50 TO ROUTE 7, STA. 94+00±	TOWN OF ROTTERDAM	10" C.I.P. WATER MAIN	REMAIN IN SERVICE UNDISTURBED
8-C	BR 11+50 LT. & RT. TO BR 15+00	TOWN OF ROTTERDAM	24" C.I.P. WATER MAIN	REMAIN IN SERVICE UNDISTURBED
9-C	ROUTE 7, STA. 62+00± LT. TO NEW N.Y.S. THRUWAY TOLL PLAZA	NEW YORK TELEPHONE CO. AND NIAGARA MOHAWK-POWER CORP.	NEW UNDERGROUND SERVICE	NEW SERVICE
10-C	ROUTE 7, STA 63+46± LT. TO NEW N.Y.S. THRUWAY TOLL PLAZA	TOWN OF ROTTERDAM	NEW 6" D.I.P. WATER MAIN	NEW SERVICE
11-C	RISOLI LANE, R10+00 – R13+65	TOWN OF ROTTERDAM	6" C.I.P. WATER MAIN	REMAIN IN SERVICE UNDISTURBED

NOTES: THE CONTRACTORS ATTENTION IS DIRECTED TO THE FACT THAT THESE HIGHWAYS, WITH THE EXCEPTION OF THE N.Y.S. THRUWAY, WILL BE DESIGNATED AS RESTRICTED HIGHWAYS UNDER THIS CONTRACT.
THE CONTRACTOR WILL BE REQUIRED TO FURNISH WATCHMAN SERVICE UNDER ITEM 619.12 IN ACCORDANCE WITH REQUIREMENT "A" OF THE N.Y.S.D.O.T. SPECIFICATIONS.

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

UTILITY DISPOSITION TABLE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
MT-1	NONE	4/79	REGION 1

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	39R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	FINAL
201.0601	CLEARING & GRUBBING	LS	NEC	100
202.0101	DISPOSAL OF BUILDINGS	LS	NEC	100
202.0102	DISPOSAL OF BUILDINGS	LS	NEC	100
202.0103	DISPOSAL OF BUILDINGS	LS	NEC	0
202.0104	DISPOSAL OF BUILDINGS	LS	NEC	0
15202.10	REMOVAL OF SUBSTRUCTURES	CY	410	260
202.12	REMOVING EXISTING SUPERSTRUCTURES	LS	NEC	100
202.20	REMOVING OLD BITUMINOUS CONCRETE OVERLAY	SY	3,010	1469
16202.5210	DISM AND STOR EXIST TEMP SUPPS	LS	NEC	100
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	512,500	540,829
203.03	EMBANKMENT IN PLACE	CY	230,000	252,493
203.07	SELECT GRANULAR FILL	CY	9,100	9,882
203.08	SELECT GRANULAR FILL SLOPE PROTECTION	CY	8,437	7,624
203.1601	APPLYING WATER	PDU	720	275
203.20	SELECT GRANULAR SUBGRADE	CY	6,200	11,157
01203.2001	SELECT GRANULAR SUBGRADE (MODIFIED)	CY	73,900	91,075
203.21	SELECT STRUCTURE FILL	CY	5,081	5,333
206.01	STRUCTURE EXCAVATION	CY	4,960	4,810
206.02	TRENCH AND CULVERT EXCAVATION	CY	28,000	28,246
206.03	CONDUIT EXCAVATION AND BACKFILL	LF	8,850	9,201
209.01	TEMP. SOIL EROSION AND WATER POLLUTION CONTROL	LS	NEC	37
302.01	BITUMINOUS STABILIZED COURSE	CY	2,450	2,145
304.04	SUBBASE COURSE TYPE 3	CY	36,300	34,737
304.05	SUBBASE COURSE TYPE 4	CY	21,600	20,114
403.11	ASPHALT CONCRETE-TYPE 1 BASE COURSE	T	15,725	14,465
403.13	ASPHALT CONCRETE-TYPE 3 BINDER COURSE	T	4,150	4,998
403.16	ASPHALT CONCRETE-TYPE 6 TOP COURSE	T	1,800	2,852
403.17	ASPHALT CONCRETE-TYPE 6F TOP COURSE (HIGH FRICTION)	T	2,950	3,462
403.21	ASPHALT CONCRETE-TRUING & LEVELING COURSE	T	90	148
407.01	TACK COAT - EMULSIFIED ASPHALT	GAL	1,600	1,543
502.04	CEMENT CONC PAVE REINFOR CL-C	CY	10,500	10,496
15502.04	PROFILOGRAPH	LS	NEC	100
04502.0401	EMERY CONCRETE SURFACE COURSE	SY	3,390	0
15502.0601	CEMENT CONC PAVEMENT UNREINFOR CLASS C- PROFILOGRAPHED	CY	4,100	4,075
502.10	METAL REINF FOR CONC PAVEMENT (10 FT. WIDE OR GREATER)	SY	41,100	40,558
502.11	METAL REINF FOR CONC PVT. (LESS THAN 10 FT. WIDE)	SY	1,950	1,741
15502.2005	TRANS JOINT SUPPORT (REINFORCED PAVEMENT)	LF	6,500	4,267
15502.2006	TRANS JOINT SUPPORT (UNREINFORCED PAVEMENT)	LF	7,600	7,323
502.30	LONGITUDINAL JOINT TIES	EA	6,525	7,000
502.31	LONGITUDINAL JOINT TIES, (EXPANSION TYPE)	EA	1,350	0
18502.4401	SAW & SEAL PAVEMT & SHOULD JTS	LF	42,200	25,439
15502.4506	CEMENT CONCRETE PAVEMENT STRESS RELIEF JOINT (TYPE F)	LF	102	98

ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	FINAL
08502.5004	SAWCUT ASPH PAVE CONC PAVE & ASPH OVERLAY ON CONC PAVE.	LF	4,400	4,549
552.02	PERM STEEL SHEET PILING	SF	1,470	1,474
552.04	TEMP STEEL SHEET PILING	SF	6,550	8,540
552.05	SAFE OPERAT SHEET PILING	SF	181,363	154,332
555.01	CONC FOR STRUCTURES - CLASS A	CY	190	189
555.02	CONC FOR STRUCTURES - CLASS B	CY	1,345	1,420
555.0401	CONC FOR STRS - CLASS E (STR SLAB-INT W S-BOT FUNK RED)	SF	30,235	30,235
555.0404	CONC FOR STRS - CLASS E (STR APR SLAB - INT WEAR SURFACE)	SF	10,004	9,963
556.0201	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	LB	295,999	301,908
556.0202	EPOXY-COATED BAR REINFORCE FOR STRUCTURES	LB	121,365	122,216
556.03	STUD SHEAR CONNECTORS / BRIDGE	EA	6,398	6,398
558.01	BITUMINOUS MATERIAL	SF	6,219	6,472
559.01	EPOXY PROTECTIVE COATING	SF	2,966	3,102
564.01	STRUCTURAL STEEL	LB	829,890	887,025
565.0101	BRIDGE BEARINGS (TYPE AE1) (HIGH STEEL EXPANSION)	EA	7	7
565.0102	BRIDGE BEARINGS (TYPE AE2) (HIGH STEEL EXPANSION)	EA	7	7
565.0206	BRIDGE BEARINGS (TYPE AF 6) (HIGH STEEL FIXED)	EA	7	7
565.0301	BRIDGE BEARINGS (TYPE BE 1) (LOW STEEL EXPANSION)	EA	14	14
565.0404	BRIDGE BEARINGS (TYPE BF 4) (LOW STEEL FIXED)	EA	7	7
567.35	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL - TYPE A5	LF	209	210
567.36	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL - TYPE A6	LF	68	68
568.10	STEEL BR RAILING (TWO RAIL)	LF	1,043	1,050
15570.25	CLEAN CONTROLLED OXIDIZING STRUCTURAL STEEL	LS	NEC	100
15580.4401	DRILL & GROUT REINFORC BARS	LF	10	16
587.02	BR RAILING REMOVAL & STORAGE	LF	400	436
603.0509	CORR ST PIPE (2-2/3X1/2) 12 IN. DIAM., 16 GAUGE	LF	304	598
02603.0517	RND CORR ST PIPE (2-2/3 X 1/2) (NESTBL TYPE) 21 IN DIAM 16 G	LF	24	24
02603.0524	RND CORR ST PIPE (2-2/3 X 1/2) (NESTBL TYPE) 30 IN DIAM 16 G	LF	10	47
603.0920	CORR ST P-ARCH PI (2-2/3X1/2) 24 IN.D 16 GA 28 IN.SP 20 IN.R	LF	68	66
603.0924	CORR ST P-ARCH PI, (2-2/3X1/2) 30 IN.D 16 GA 35 IN.SP 24 IN.R	LF	160	152
603.1709	GALV ST END-SECTIONS-PIPE (2-2/3X1/2) 12 IN.D 16 GA.	EA	18	12
603.1820	GALV ST E-SCT PIPE ARCH (2-2/3X1/2)28 I SP 20 I R 16 G	EA	1	1
603.1825	GALV ST E-SCT PIPE ARCH (2-2/3X1/2)35 I SP 24 I R 14 G	EA	4	4
603.2114	SMOOTH LINED CORR STEEL PIPE (2-2/3X1/2) 18 IN DIAM 16 GA	LF	345	345
603.2117	SMOOTH LINED CORR STEEL PIPE (2-2/3X1/2) 21 IN DIAM 16 GA	LF	152	149
603.4009	ROUND COR AL PIPE (2-2/3X1/2) 12 IN DIAMETER 16 GAGE	LF	304	0
603.4060	ROUND COR AL PIPE (2-2/3X1/2) 48 IN DIAMETER 12 GAUGE	LF	174	0
603.4066	ROUND COR AL PIPE (2-2/3X1/2) 54 IN DIAMETER 10 GAUGE	LF	130	0

ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	FINAL
603.4420	COR AL STR PL PIPE (9X2-1/2) 78 IN. DIA .100 IN THICK	LF	300	0
603.4422	COR AL STR PL PIPE (9X2-1/2) 78 IN. DIA .150 IN THICK	LF	392	0
603.4430	COR AL STR PL PIPE (9X2-1/2) 84 IN. DIA .175 IN THICK	LF	480	0
603.4810	COR AL PIPE-ARCH (2-2/3X1/2) 28 IN SPAN 20 IN RISE 14 GA	LF	68	0
603.4813	COR AL PIPE-ARCH (2-2/3X1/2) 35 IN SPAN 24 IN RISE 14 GA	LF	160	0
603.5404	CORR ALUM END SECTIONS, PIPE 12 IN.DIAM.(2-2/3 X 1/2) 16 GA	EA	18	0
603.5416	CORR ALUM END SECTIONS, PIPE 48 IN.DIAM.(2-2/3 X 1/2) 12 GA	EA	2	0
603.5418	CORR ALUM END SECTIONS, PIPE 54 IN.DIAM.(2-2/3 X 1/2) 12 GA	EA	1	0
603.5509	COR AL END SECTIONS, P-A 28 IN S 20 IN R(2-2/3X1/2)14 G	EA	1	0
603.5511	COR AL END SECTIONS, P-A 35 IN S 24 IN R(2-2/3X1/2)14 G	EA	4	0
603.6001	REINFORCED CONCRETE PIPE, CLASS III, 12 INCH DIAMETER	LF	968	955
603.6002	REINFORCED CONCRETE PIPE, CLASS III, 15 INCH DIAMETER	LF	900	899
603.6003	REINFORCED CONCRETE PIPE, CLASS III, 18 INCH DIAMETER	LF	110	157
603.6005	REINFORCED CONCRETE PIPE, CLASS III, 24 INCH DIAMETER	LF	2,346	2,398
603.6006	REINFORCED CONCRETE PIPE, CLASS III, 27 INCH DIAMETER	LF	562	553
603.6007	REINFORCED CONCRETE PIPE, CLASS III, 30 INCH DIAMETER	LF	462	455
603.6009	REINFORCED CONCRETE PIPE, CLASS III, 36 INCH DIAMETER	LF	48	48
603.6210	REINFORCED CONCRETE PIPE, CLASS V, 42 INCH DIAMETER	LF	244	276
603.7302	REINF. CONC. PIPE END SECTIONS 18 INCH DIAMETER	EA	2	1
603.7303	REINF. CONC. PIPE END SECTIONS 24 INCH DIAMETER	EA	25	27
603.7304	REINF. CONC. PIPE END SECTIONS 30 INCH DIAMETER	EA	5	5
603.7305	REINF. CONC. PIPE END SECTIONS 36 INCH DIAMETER	EA	2	2
603.7306	REINF. CONC. PIPE END SECTIONS 42 INCH DIAMETER	EA	2	2
603.7308	REINFORCED CONCRETE PIPE END SECTIONS 15 IN DIAM	EA	1	1
01603.7607	10 X 5 PRECAST CONC BOX CULV	LF	112	112
603.7903	GALV ST PIPE END SECTNS (OPTS) (2-2/3X1/2)/(3X1)48 IN D 12 G	EA	2	2
603.7904	GALV ST PIPE END SECTNS (OPTS) (2-2/3X1/2)/(3X1)54 IN D 12 G	EA	1	1
603.8442	RND COR ST PIPE PI OP(3X1)160A OR (2-2/3X1/2) 14 GA 48 IN.D	LF	174	166
603.8469	RND COR ST PIPE PI OP(3X1)100A OR (2-2/3X1/2) 10 GA 54 IN.D	LF	130	130
603.8565	RC ST PIPE PI OP(3X1)120/(2-2/3X1/2)80/(6X2)120 78 IN D	LF	300	300
603.8567	RC ST PIPE PI OP(3X1)100/(2-2/3X1/2)80/(6X2)100 78 IN D	LF	392	392
603.8587	RC ST PIPE PI OP(3X1)100/(2-2/3X1/2)80/(6X2)100 84 IN D	LF	480	480
01604.0201	CATCH BASIN TYPE A	LF	15	17
01604.0203	CATCH BASIN TYPE C	LF	20	21
01604.0211	CATCH BASIN TYPE D	LF	25	22

REVISIONS

ESTIMATE OF QUANTITIES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION

D008243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	4021	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	FINAL
01604.0212	CATCH BASIN TYPE E	LF	15	15
01604.0401	MANHOLE TYPE A	LF	65	75
01604.0501	DROP INLETS TYPE A	LF	14	14
09604.0502	DROP INLET TYPE B	LF	19	20
09604.0503	DROP INLET TYPE C	LF	17	19
01604.0508	DROP INLETS TYPE H	LF	50	96
01604.0522	DROP INLETS TYPE V	LF	21	33
01604.0523	DROP INLETS TYPE A A	LF	29	32
605.0702	STEEL PIPE UNDERDRAIN 4-5/8 IN SEMI CIRCULAR OR 6IN PERF. COR	LF	582	1,627
605.0901	UNDERDRAIN FILTER TYPE 1	CY	315	323
605.1001	UNDERDRAIN FILTER TYPE 2	CY	2,110	2,960
17605.9104	CONR POLY UNDERDRAIN PI 4 IN D	LF	32,400	33,160
606.10	BOX BEAM GUIDE RAILING	LF	6,200	6,856
606.11	BOX BEAM GUIDE RAILING (SHOP CURVED)	LF	2,200	2,279
606.12	BOX BEAM MEDIAN BARRIER	LF	130	144
606.13	BOX BEAM MEDIAN BARRIER (SHOP CURVED)	LF	270	272
606.14	BOX BEAM GUIDE RAILING END ASSEMBLY	EA	29	39
606.16	BOX BEAM MEDIAN BARRIER END ASSEMBLY, TYPE B	EA	1	1
606.20	CORRUGATED BEAM GUIDE RAILING	LF	2,800	2,660
606.22	ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING	EA	12	12
15606.3001	CONC MEDIAN BARRIER (TYPE A)	LF	3,314	2,921
15606.3101	CONC MEDIAN BARRIER END SECTION (TYPE A)	EA	2	3
15606.3201	HALF SECTION CONC MED BARRIER	LF	694	695
15606.3202	TRANSITION CONCRETE BARRIER TO BOX BEAM GUIDE RAIL	LF	104	104
606.47	GUIDE POSTS (WOOD)	EA	2	0
606.48	REMOVING & DISPOSING OF GUIDE POSTS	EA	25	26
15606.4801	I BEAM BACK UP POSTS FOR GD RL	EA	48	81
606.52	RESET BOX BEAM GUIDE RAILING	LF	1,308	0
606.58	RESET BOX BEAM GUIDE RAILING END ASSEMBLY	EA	2	1
606.62	REMOVING & STORING CORRUGATED BEAM GUIDE RAILING	LF	748	748
606.64	REMOVING & STORING BOX BEAM GUIDE RAILING	LF	122	158
606.67	REMOVE & STORE ANCHOR UNIT FOR CORR BEAM GD RAIL & WALL BARR	EA	7	7
606.68	REMOVE & STORE BX BEAM GUIDE RAILING END ASSEMBLY	EA	1	5
606.72	REMOVING & DISPOSING CORRUGATE BEAM GUIDE RAILING	LF	3,377	3,351
606.77	REMOVE & DISPOS ANCHOR UNIT / CORR BEAM GD RAIL & WALL BARR	EA	8	0
607.0812	OPT C-L FENCE W TOP RAIL ALU. OR ALU CTD OR GLV ST 6 FT HI	LF	289	427
607.0822	OPT C-L FENCE W TOP TENSION WIRE 6 FOOT HIGH	LF	7,700	8,524
607.11	RIGHT-OF-WAY FENCING	LF	3,600	3,776
607.1856	OPTIONAL FENCE GATE (DOUBLE LEAF 12 FT OPENING 6 FT HI)	EA	1	1
607.1866	OPTIONAL FENCE GATE (DOUBLE LEAF 20 FT OPENING 6 FT HI)	EA	1	1
01607.60	REMOVING AND STORING CHAIN LINK FENCING	LF	3,000	3,590

ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	FINAL
05607.60	REMOVE & STORE CH-LINK FENCING	LF	1,100	1,008
608.01	CONCRETE SIDEWALK	CY	14	11
608.02	ASPHALT CONCRETE DRIVEWAYS SIDEWALKS & CLASS I BIKEWAYS	T	170	413
609.0203	STONE CURB - GRANITE (TYPE C)	LF	850	823
609.0301	STONE CURB - BRIDGE (TYPE A)	LF	382	317
609.0302	STONE CURB - BRIDGE (TYPE F1)	LF	540	891
609.0303	STONE CURB - BRIDGE (TYPE G1)	LF	488	130
609.0405	CONVENTIONALLY FORMED OR MACH FORMED CONC CURB TYPE AB	LF	200	229
609.0407	CONVENTIONALLY FORMED OR MACH FORMED CONC CURB TYPE BB	LF	3,000	2,995
610.01	APPLYING SOIL CONDITIONERS	T	6.3	6
610.02	SEEDING	A	42	55
611.013364	PLTG GLEDITSIA TRIACANTHOS SHDWSTR, SKYL, IMP OR EQUAL	EA	2	2
611.049062	PLTG VIBURNUM DENTATUM	EA	3	3
611.049662	PLTG VIBURNUM SIEBOLDI	EA	2	2
611.054031	PLTG RHODODENDRON SPECIES	EA	4	4
611.05424	PLTG, RHODODENDRON CATAWBIENSE	EA	2	2
611.05513	PLTG TAXUS CUSPIDATA	EA	19	19
612.01	SODDING	SY	334	196
613.0101	TOP SOIL	CY	9,500	14,055
614.02	SELECTIVE THINNING	A	6.5	0
614.0334	TREE REMOVAL	EA	10	11
614.0344	TREE REMOVAL	EA	12	11
614.0354	TREE REMOVAL	EA	9	4
614.0364	TREE REMOVAL	EA	3	4
614.0384	TREE REMOVAL	EA	1	1
614.0394	TREE REMOVAL	EA	7	7
615.03	WATERING PLANTS AND SOD	MGAL	3	6
619.01	BASIC MAINTENANCE & PROTECTION OF TRAFFIC	LS	NEC	100
619.02	CONSTRUCTION SIGNS	LS	NEC	100
619.0413	TYPE III CONSTRUCTION BARR	LF	12,400	712
619.0501	LIGHTING FOR CONST BARRICADES	LF	6,200	200
619.10	MAILBOXES	EA	46	52
619.1101	OPENING HIGHWAY TO TRAFFIC PRIOR TO CONTRACT ACCEPTANCE	LMCD	1,070	782
619.12	WATCHMEN SERVICE	PTRL	16,000	3,412
619.15	PAVEMENT DELINEATION	LF	15,700	49,475
619.1601	MAINT TRAF SIGNAL EQUIP	INTWO	45	33
619.17	TEMPORARY CONC BARRIER	LF	1,400	1,740
620.02	STONE FILLING (FINE)	CY	20	0
620.03	STONE FILLING (LIGHT)	CY	6,450	6,305
620.04	STONE FILLING (MEDIUM)	CY	60	105
620.06	DRY RIP RAP	CY	80	235
620.08	BEDDING MATERIAL	CY	2,250	2,165
620.09	CONCRETE BLOCK PAVING	SY	730	719
624.0111	CONVENT FORM OR MACHINE FORMED CONC GUTTERS TYPE C	SY	460	533
625.01	RIGHT OF WAY MARKERS (OPTIONS-GRANITE OR CONCRETE, TYPE L)	EA	65	64

ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	FINAL
625.02	GRANITE RIGHT OF WAY MARKERS	EA	9	9
626.01	PERMANENT SURVEY MARKERS	EA	6	6
633.0202	CLEAN EXIST PAVE AND/OR SHOULD	SY	3,350	2,109
634.01	SURVEY AND STAKEOUT	LS	NEC	100
634.03	CONC. CYLINDER CURING BOX	EA	2	2
15634.0403	INSPECTION VEHICLES	VCM	275	345
15634.0498	2-WAY FM RADIO BASE STATION	UN-MO	30	30
15634.0499	2-WAY FM MOBILE RADIOS	UN-MO	85	76
15634.0503	TRAINING SPECIAL PROVISIONS	TWH	10,000	8,274
18635.01	CLEANING AND PREPARATION OF PAVEMENT SURFACE-LINES	LF	29,500	18,536
637.01	LABORATORY BUILDING	EA	1	1
637.09	ENGINEERS OFFICE - TYPE E	MO	30	31
638.0102	COLORED SYN RESIN BINDER CONC (WHITE)	T	260	214
644.01	SINGLE CANTILEVER SIGN STRUCT	EA	1	1
644.0301	SINGLE SPAN SIGN STRUCTURE	EA	1	1
644.0302	SINGLE SPAN SIGN STRUCTURE	EA	1	1
644.0303	SINGLE SPAN SIGN STRUCTURE	EA	1	1
644.0304	SINGLE SPAN SIGN STRUCTURE	EA	1	1
644.06	SIGN STRUCTURE DAMPENER	EA	1	1
645.07	GUIDE SIGN - ALUMINUM	SF	1,192	1,208
645.14	OVERHEAD PANEL - ALUMINUM	SF	1,737	1,886
645.16	SECONDARY PANEL - ALUMINUM	SF	317	315
645.2020	TRAFFIC SIGN 30IN OCTAGONAL	EA	5	4
645.2025	TRAFFIC SIGN 36 IN OCTAGONAL	EA	1	1
645.2050	TRAFFIC SIGN 60 IN X 48 IN	EA	9	8
645.2060	TRAFFIC SIGN 24 IN X 48 IN	EA	7	18
645.2062	TRAFFIC SIGN, 24 IN X 48 IN FURNISH & MOUNT PANEL ONLY	EA	3	3
645.2080	TRAFFIC SIGN 36 IN X 48 IN	EA	10	10
645.2090	TRAFFIC SIGN 48 IN X 48 IN	EA	4	4
645.21	TRAFFIC SIGN 18IN X 48IN	EA	3	3
645.2120	TRAFFIC SIGN 30IN X 30IN OR 30IN X 24IN	EA	5	3
645.2150	TRAFFIC SIGN 24IN X 30IN OR 24IN X 24IN	EA	2	2
645.2260	TRAFFIC SIGN 36IN X 42IN OR 36IN X 36IN	EA	4	4
645.2280	TRAFFIC SIGN 48IN X 42IN OR 48 IN X 36 IN	EA	5	5
645.2290	TRAFFIC SIGN 24IN DIAMOND	EA	4	3
645.2310	TRAFFIC SIGN 36IN DIAMOND	EA	10	9
645.2410	TRAFFIC SIGN 36IN DIAMOND WITH 36IN X 36IN RECTANGLE	EA	4	5
645.2430	TRAFFIC SIGN 48IN DIAMOND WITH 36IN X 36IN RECTANGLE	EA	4	4
645.2480	TRAFFIC SIGN 36IN ROUTE MARKER	EA	8	8
645.26	TRAF SIGN SNGL RTE MRKR ASSEM PANEL GROUP I	EA	2	2
645.2610	TRAF SIGN SNGL RTE MRKR ASSEM PANEL GROUP II	EA	2	2
645.2620	TRAF SIGN SNGL RTE MRKR ASSEM PANEL GROUP III	EA	2	2
645.2760	TRAF SIGN DBL RTE MRKR ASSEM PANEL GROUPS IV & IV	EA	2	2
645.2840	TRAF SIGN TRPLE RTE MRKR ASSEM PGS IV & 2(I/II/III/IV)	EA	1	1

REVISIONS

ESTIMATE OF QUANTITIES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	4 121	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	FINAL
645.29	TRAFFIC SIGN 12IN X 42IN OR 12IN X 36IN	EA	5	2
645.2902	TRAF SIGN, 12IN X 42IN OR 12IN X 36IN FURN & MNT PANEL ONLY	EA	1	0
645.30	SLIP-IMPACT BASE AND HINGE ASSEMBLY (POST TYPE B)	EA	6	8
645.31	SLIP-IMPACT BASE AND HINGE ASSEMBLY (POST TYPE 9)	EA	4	4
645.35	SLIP IMPACT BASE & HINGE ASSEM (POST TYPE 13)	EA	6	6
645.4003	CLEARANCE MARKER, RIGHT, 54 IN	EA	2	2
646.0601	DELINEATOR SGLE UNIT ONE WAY ON POST	EA	359	376
646.0602	DELINEATOR SGLE UNIT BACK BACK ON POST	EA	117	45
646.0603	DELINEATOR SGLE UNIT TWO WAY ON POST	EA	11	11
646.0604	DELINEATOR SGLE UNIT THREE WAY ON POST	EA	9	9
646.0606	DELINEATOR DBL UNIT ON POST	EA	33	90
646.0607	DELINEATOR SGLE UNIT BAND OR BRACKET MOUNT	EA	29	27
646.0609	DELINEATOR SINGLE UNIT BACK TO BACK BAND OR BRACK MOUNT	EA	40	51
646.0701	REFER MARK 4 FT MI HGT	EA	35	35
646.0801	SNOWPLOW MARK SGL UNIT	EA	11	8
646.0802	SNOWPLOW MARK DBL UNIT	EA	11	11
647.04	REMOVAL AND STORAGE OF SIGNS SIZE A (0 - 10 S.F.)	EA	19	30
647.05	REMOVAL AND STORAGE OF SIGNS SIZE B (11-20 S.F.)	EA	7	11
647.07	REMOVAL & STORAGE OF SIGNS SIZE D (41 TO 100 SF)	EA	1	3
647.10	RELOCATING SIGNS SIZE A (0 TO 10 SF)	EA	34	34
647.11	RELOCATING SIGNS SIZE B (11 TO 20 SF)	EA	2	2
650.02	JACKING REINF CONC PIPE UNDER HIGHWAY	LF	150	150
652.01	FURNISHING AND APPLYING CALCIUM CHLORIDE	T	55	7
15654.1101	INERTIAL BARRIER MOD REPLCMNT PARTS (TYPE A 400 POUNDS)	EA	1	0
15654.110201	INERTIAL BARRIER MODULE (TYPE A 400 POUNDS)	EA	2	2
15654.1202	INERTIAL BARRIER MODULE (TYPE B 700 POUNDS)	EA	6	6
15654.1302	INERTIAL BARRIER MODULE (TYPE C 1400 POUNDS)	EA	4	4
15654.1402	INERTIAL BARRIER MODULE (TYPE D 2100 POUNDS)	EA	2	2
15654.1501	LIQUID FILLED CELL CLUSTER ATTENUATOR (LOCATION A)	EA	9	9
655.01	FRAMES AND GRATES (CASTINGS)	SF	12	46
655.02	FRAMES AND GRATES (FABRICATED)	SF	370	287
15655.03	FRAMES & GRATES - CASTINGS & FABRICATED	SF	80	94
01655.10	REM & STORE FRAMES AND GRATES	EA	12	13
656.01	MISCELLANEOUS METALS	LB	810	319
08660.0606	F & I DUCT IRON CEM LIN WATER PIPE (6 IN DIAM)	LF	2,500	2,526
08660.0610	F & I DUCT IRON CEM LIN WATER PIPE (10 INCH DIAM)	LF	10	76
08660.061212	F & I DUCT IRON CEM LIN WATER PIPE (12 IN DIAM)	LF	2,316	2,282

ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	FINAL
08660.070106	FURN & INSTALL WATER GATE VALV & VALVE BOXES (6 IN DIAM)	EA	4	10
08660.070112	FURN & INSTALL WATER GATE VALV & VALVE BOXES (12 IN DIAM)	EA	2	2
08660.10	ALTERING ELEVATION OF WATER GATE VAL BX FOR WATER MAINS	EA	3	3
08660.1116	CUT & CAP WATER LINES	EA	1	0
04660.12	RE-ESTABLISH WATER SERVICE CONNECTIONS	EA	26	28
15660.13	RELOCATING HYDRANTS	EA	6	7
01660.1403	FURNISH AND INSTALL HYDRANT ASSEMBLY COMPLETE	EA	1	1
08660.1725	F & I 12 IN X 12 IN TAP SLEEVE TAP VALVE & VALVE BX ASSEMBLY	EA	3	3
07660.1911	FURN & INSTALL 4 IN THICK INSULATION FOR WATER MAIN	LF	326	206
01660.71	FURNISH & INSTALL POLYVINYL CHLORIDE WATER PIPE	LF	2,100	2,061
08660.8080	WATER MAIN SPECIALS	LB	8,475	13,240
16660.9102	GALV ST COMMUNICATION CONDUIT	LF	250	241
670.01	FOUND. FOR LIGHT STANDARDS	EA	40	39
670.1001	ALUM LIGHT STRDS 30 FT.WING.HT 4 FT. TO 15 FT. BRACKET	EA	39	38
670.2003	2 INCH GALV. STEEL CONDUIT	LF	9,000	8,638
01670.2603	F & I 3 IN P V C CONDUIT FOR MAGNETIC DETECTORS	LF	130	123
670.3006	PULLBOXES, 5 CF TO 7.5 CF INSIDE VOLUME (LIGHTING)	EA	20	20
670.40	CAST IRON JUNCTION BOXES	EA	1	1
680.01	SPAN WIRE ASSEMBLY	EA	3	3
680.0309	STEEL TRAFFIC SIGNAL POLE ANCHOR BASE (30 FT)	EA	1	1
680.0310	STEEL TRAFFIC SIGNAL POLE ANCHOR BASE (32 FT)	EA	2	2
680.0312	STEEL TRAFFIC SIGNAL POLE ANCHOR BASE (36 FT)	EA	1	1
680.050208	SIGNAL CONTROL CABLE (2 CONDUCTOR 8 AWG)	LF	250	336
680.050314	SIGNAL CONTROL CABLE (3 CONDUCTOR 14 AWG)	LF	350	368
680.050514	SIGNAL CONTROL CABLE (5 CONDUCTOR 14 AWG)	LF	1,180	1,109
680.051514	SIGNAL CONTROL CABLE (15 CONDUCTOR 14 AWG)	LF	150	NIC
680.051914	SIGNAL CONTROL CABLE (19 CONDUCTOR 14 AWG)	LF	130	340
680.08	POLE EXCAV AND CONC FOUNDATION	CY	19	18
680.09	PULLBOXES (TRAFFIC SIGNALS)	EA	10	11
680.1006	CONDUIT - 2 IN DIAM	LF	880	812
680.1010	CONDUIT - 4 IN DIAM	LF	24	28
08680.1027	CONDUIT RISER ASSEM - 2 IN D.	EA	6	4
680.11	INDUCTANCE LOOP WIRE	LF	2,000	2,027
680.12	SHIELDED LEAD-IN CABLE	LF	2,285	2,295
680.13	INDUCTANCE LOOP INSTALLATION	LF	940	953
15680.153245	INSTALL MICROCOMPUTER CABINET	EA	1	1
01680.153604	CONTROLLER & CABINET 3 PHASE FULL TRAF ACTUATED (NEMA)	EA	1	1
15680.1562	INTERSECTION FLASHER CONTROLL WITH CABINET	EA	1	1
680.23	MOD AND REMOVE TRAF SIGNL EQU.	LS	NEC	100
680.3002	TRAFFIC SIGNAL HEADS, 1 WAY 1 SECTION 12 IN LENS	EA	2	2

ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	FINAL
680.3032	TRAFFIC SIGNAL HEADS, 1 WAY 3 SECTION 12 IN LENS	EA	2	2
680.3035	TRAFFIC SIGNAL HEADS, 2 WAY 3 SECTION 12 IN LENS	EA	3	3
680.3061	TRAFFIC SIGNAL HEADS, 1 WAY 5 SECTION 12 IN LENS	EA	2	1
680.3072	TRAFFIC SIGNAL HEADS, 2 WAY 3 & 5 SECTION	EA	1	2
10680.4404	MAGNETIC VEHICLE DETECTOR MULTIPLE-LANE TYPE	EA	3	3
680.46	PEDESTRIAN PUSH BUTTON & SIGN	EA	2	2
687.01	WHITE THERMOPLASTIC REFLECT PAVEMENT STRIPES	LF	29,180	18,371
687.02	YELLOW THERMOPLASTIC REFLECT PAVEMENT STRIPES	LF	21,150	21,525
18688.01	WHITE PREFORMED REFLECTORIZED PAVEMENT STRIPES	LF	11,950	0
18688.02	YELLOW PREFORMED REFLECTORIZED PAVEMENT STRIPES	LF	6,500	0
25690.6374	TOLL UTILITY BUILDING, ISLANDS, CANOPY AND RELATED WORK	LS	NEC	0
25690.6375	FURN & INSTALL TOLL BOOTHS	LS	NEC	100
16695.19 ~~16695.15~~	INSTALL ELECT CONDUIT (COMPANY FURN.)	LF ~~LS~~	912 ~~NEC~~	912
16695.20 ~~16695.16~~	INSTALL TOLL ~~ELECT~~ CONDUIT (COMPANY FURN.)	LF ~~LS~~	1,368 ~~NEC~~	1,368
699.01	MOBILIZATION	LS	NEC	100
700.01	ASPHALT PRICE ADJUSTMENT	LS	NEC	12.1
	ADDITIONAL ITEMS			
611.010463	A-PLTG RED MAPLE 2 1/2 IN - 3 IN CAL B & B N G	EA	0	8
611.011063	A-PLTG SUGAR MAPLE 2 1/2 IN - 3 IN CAL B & B N G	EA	0	8
611.012663	A-PLTG GREEN ASH 2 1/2 IN - 3 IN CAL B & B N G	EA	0	11
611.034143	A-PLTG AUSTRIAN PINE 4-5 FT B & B N G	EA	0	3
611.034163	A-PLTG AUSTRIAN PINE 6-7 FT B & B N G	EA	0	29
611.034463	A-PLTG SCOTS PINE 6-7 FT B & B N G	EA	0	10
645.2330	TRAFFIC SIGN - 48 IN DIAMOND	EA	0	4
08660.1718	A-FURN & INSTL 10IN X 10IN TPNG SLVE TAPING VALVE & VALVE BX ASSM	EA	0	1
15680.94	A-RAINTIGHT DISCONNECT BOX	EA	0	3
41690.6374	A-TOLL UTIL BLDG ISLANDS CANOPY AND RELATED WORK	LS	0	100
950.01	A-FURNISH & INSTALL GROUT TYPE JOINT TIES	EA	0	1,292
950.02	A-TRANSVERSE JOINT SUPPORTS (RE INF PAVT EXPANS TYPE ONLY)	LF	0	1,575
950.03	FURN & INST 3 IN STR FORM GLASS INSULATION	LS	0	84
950.04	A-FURNISH & INSTALL POST CAST HEADER ANCHORAGE	LS	0	100

ITEM	DESCRIPTION	UNIT	QUAN	FINAL
950.06	A-ADDITIONAL COSTS FOR CHANGES IN BRIDGE STEEL	LS	0	100
950.07	A-MODIFY FLASHING DUE TO ROOF CHANGE	LS	0	100
950.08	A-ADDITIONAL HEATING COSTS DUE TO ROOF CHANGE	LS	0	100
950.09	A-MODIFY TOLL BOOTH BASE ELEVATION	LS	0	100
950.10	A-PROVIDE TEMP. 40 FT WOOD POLE	LS	0	100
950.11	A-SAW & SEAL PAVT & SHLD JOINTS (POURABLE SEALANT ONLY)	LF	0	12,890
950.12	A-MODIFY EXISTING FLASHING BEACON BRACKETS	LS	0	100
950.13	A. MODIFY EXISTING CANOPY COLUMN CONNECTIONS	LS	0	100
950.14	A-LATEX MODIFIED EMERY CONCRETE SURFACE COURSE	SY	0	3,383
950.15	A-STR CONC CRACK REPAIR EPOXY PRESSURE INJECTION	LS	0	100
950.16	A-ALUMINUM LIGHT STANDARD (FURNISH ONLY)	EA	0	1
950.17	A-FURNISH ADDITIONAL Z BAR FOR SIGN INSTALLATION	LF	0	15
950.18	A-REPOSITION SIGNAL HEAD & INSTALL TUNNEL HOODS	LS	0	100
950.19	A-MODIFY ENTRANCE CANOPY STR STEEL	LS	0	100
950.20	A-STEEL ANGLE FRAME FOR ROOF FAN OPENINGS	LS	0	100

REVISIONS

ESTIMATE OF QUANTITIES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION

DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	421	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

TABLE OF R.O.W. ACQUISITIONS

MAP NO.	PAR. NO.	TYPE	REPUTED OWNER
ROUTE 7 S.H. 880			
323	334	FEE W/A	MOHAWK VALLEY LIBRARY ASSOCIATION
16	19	FEE W/A	RAYMOND PHILIP & MARIAN A. LE GERE
17	20	FEE W/A	DONALD N. & ELSIE J. STRYKER
18	21	FEE W/A	DONALD N. & ELSIE J. STRYKER
19	22	FEE W/A	ELLSWORTH W. & ALBERTO E. MILLER
20	23	FEE W/A	WILLIAM J. JR. & MARLENE BOND
21	24	FEE W/A	JOSEPH & EVELYN R. MASTRIANNI
22	—	T.O.	JOSEPH & EVELYN R. MASTRIANNI
23	26	FEE W/A	JAMES S. & EMMA M. EVANS
24	27	FEE W/A	SCHALMONT SCHOOL DISTRICT AT ROTTERDAM
24	28	FEE W/A	SCHALMONT SCHOOL DISTRICT AT ROTTERDAM
25	29	FEE W/A	JOHN A. & MERRIE ANNE SANTORE
26	30	FEE W/A	EDWARD B. & MARGUERITE MICIAG
27	31	FEE W/A	VITO J. & MINNIE SCHIAVO
28	32	FEE W/A	NEWTON & BEATRICE WARNER
29	33	FEE W/A	FRANCIS & HELEN BURFORD
30	34	FEE W/A	EDNA W. BROWN
31	35	FEE W/A	MARSHALL B. & MARY WALDRON
32	36	FEE W/A	COUNTY OF SCHENECTADY
33	37	FEE W/A	EXPLORER POST 17, INC.
34	—	T.O.	EXPLORER POST 17, INC.
35	38	FEE W/A	THE NATURE CONSERVANCY
36T	39		NEW YORK STATE THRUWAY AUTHORITY
INTERSTATE ROUTE 88 SECTION 4 MAINLINE			
317	327	FEE W/OA	KENNETH EARL CROUNSE
351	351	FEE W/OA	THE DELAWARE & HUDSON RAILROAD COMPANY
352	352	FEE W/OA	JAMES S. & EMMA M. EVANS
353	353	FEE W/OA	ELMER LEWIS & CHARLES LEWIS
353	354	FEE W/OA	ELMER LEWIS & CHARLES LEWIS
354	355	FEE W/OA	ELMER LEWIS & CHARLES LEWIS
355	356	FEE W/OA	JAMES S. & EMMA M. EVANS
356	357	FEE W/OA	JOSEPH M. LUCAS, STEPHANIE ANTEMANN, PHILLIP EWING & BRUCE EWING
357	358	FEE W/OA	JOSEPH M. LUCAS, STEPHANIE ANTEMANN, PHILLIP EWING & BRUCE EWING
358	359	FEE W/OA	GENERAL ELECTRIC COMPANY
358	360	FEE W/OA	GENERAL ELECTRIC COMPANY
359	361	FEE W/OA	TOWN OF ROTTERDAM, INDUSTRIAL DEVELOPMENT AGENCY
360	362	FEE W/OA	ROBERT & DAWN F. KINGSLEY
361	—	T.O.	ELMER LEWIS & CHARLES LEWIS
362	363	P.E.	JAMES S. & EMMA M. EVANS
363	364	P.E.	NATURE CONSERVANCY
364	365	P.E.	SHALMONT SCHOOL DISTRICT AT ROTTERDAM
388	433	FEE W/OA	KENNETH EARL CROUNSE
389	434	FEE W/OA	THE DELAWARE & HUDSON RAILROAD COMPANY
390	435	FEE W/OA	JAMES S. & EMMA M. EVANS

*CONCURRENT USE AND OCCUPANCY

ITEM 625.01-RIGHT-OF-WAY MARKERS (OPTIONS: GRANITE OR CONCRETE TYPE L)

STATION	OFFSET	STATION	OFFSET
DR 1+03+ LT	68'± RT	TWM BL 20 + 60± LT	35'± RT
DR 1+47+ RT	90'± RT	TWM BL 23 + 37± LT	85'± RT
DR 2+38.79 LT	57.32' RT	TWM BL 24 + 43± LT	106'± RT
DR 4+38.00 LT	60.77' RT	TWM BL 28 + 58± LT	425'± RT
DR 6+69+ LT	120'± RT	TWM BL 28 + 91± LT	69'± RT
DR 7+53.95 LT	236.71' RT	TWM BL 33 + 07± LT	770'± RT
DR 8+69.64 LT	244.90' RT	TWM BL 37 + 76± LT	595'± RT
DR 9+75.63 LT	231.07' RT	TWM BL 38 + 78± LT	294'± RT
DR 10+33+ LT	110'± RT	TWM BL 40 + 23± LT	109'± RT
DR 10+92.36 LT	187.83' RT	TWM BL 41 + 08± LT	69'± RT
DR 11+63.80 LT	22.00' RT	TWM BL 42 + 49± LT	26'± RT
DR 12+18.09 LT	100.51' RT		
EB 757+43.50 RT	124.55' RT	TWE BL 27 + 84± RT	120'± RT
EB 757+44.77 RT	227.27' RT	TWE BL 40 + 59± RT	150'± RT
EB 757+48.12 RT	509.94' RT	TWE BL 41 + 09± RT	139'± RT
EB 763+65+ RT	135'± RT	TWE BL 44 + 59± RT	133'± RT
TP 764+90± RT	153'± RT		
TP 765+79± RT	528'± RT	ROUTE 7	
TP 766+93.40 RT	156.23' RT	S BL 88+82 RT	82' RT
767+88± LT	185'± RT	S BL 93+06 RT	54' RT
TP 769+21.60 RT	297'± RT	S BL 95+00 RT	20' RT
AGS BL 790+28± RT	609'± RT		
TP 770+28.88 RT	528'± RT	S BL 97+36 LT	45' RT
AGS BL 792+63± RT	61'± RT		
AGS BL 793+82.32 RT	496.47' RT	S BL 97+82 LT	41' RT
AGS BL 798+36.82 RT	414.40' RT	S BL 115+00 LT	136' RT
AGS BL 800+62.46 RT	476.90' RT	S BL 118+21 LT	92' RT
AGS BL 804+52± RT	60'± RT	S BL 119+09 LT	59' RT
AGS BL 804+64± RT	42'± RT	S BL 120+10 LT	60' RT
AGS BL 790+51.28 RT	773.22' RT	S BL 121+20 LT	44' RT
S BL 101+00.90 LT	682.94' RT	S BL 121+76 LT	16' RT
S BL 103+51.46 LT	300.31' RT	S BL 124+34 RT	159' RT
S BL 104+00.39 LT	316.03' RT	S BL 129+74 RT	58' RT
S BL 103+46± LT	34'±RT		
S BL 103+96± LT	38'±RT		

ITEM 625.02-GRANITE RIGHT-OF-WAY MARKERS

STATION	OFFSET
S BL 89+52 LT	42' RT
S BL 90+89 LT	32' RT
S BL 93+12 LT	54' RT
S BL 93+13 LT	47' RT
S BL 93+97 LT	50' RT
S BL 97+89 RT	48' RT
S BL 98+01 LT	39' RT
S BL 98+03 LT	33' RT
S BL 99+72 RT	55' RT

NOTE: THE GRANITE RIGHT OF WAY MARKERS, ITEM 625.02, SHALL BE PLACED WITH THE TOP FLUSH WITH THE GROUND.

TABLE OF LENGTHS - I-508

MAINLINE INTERSTATE-508

DESCRIPTION	STATION TO STATION	DESCRIPTION	L.F. (AVG.)	MILES
CONTRACT BEGINS	EB 703+00 — EB 730+58 WB 702+80 — WB 730+12	TOWN LINE - LEAVES PRINCETOWN	2745.00	0.520
TOWN LINE - ENTERS ROTTERDAM	EB 730+58 — EB 742+00 WB 730+12 — WB 742+00	PROJECT AND PAVEMENT BEGINS	1165.00	0.221
PROJECT AND PAVEMENT BEGINS	EB 742+00 — EB 763+88.32 WB 742+00 — WB 763+50	TOLL PLAZA BEGINS	2169.16	0.411
TOLL PLAZA BEGINS	EB 763+88.32 — TP 768+76.32 WB 763+50	LIMIT OF INTERSTATE PARTICIPATION	488.00	0.092
LIMIT OF INTERSTATE PARTICIPATION	TP 768+76.32 — TP 772+00.32	LIMIT OF INTERSTATE PARTICIPATION	324.00	0.061
LIMIT OF INTERSTATE PARTICIPATION	TP 772+00.32 — TP 775+88.32	END TOLL PLAZA	388.00	0.073
END TOLL PLAZA	TP 775+88.32 — RT 21+23.22	BRIDGE # 3 BEGINS	1123.22	0.213
BRIDGE # 3 BEGINS	RT 21+23.22 — RT 22+27.50	PROJECT AND CONTRACT ENDS	104.28	0.020
		PROJECT LENGTH	4596.66	0.871
		CONTRACT LENGTH	8506.66	1.611

PLUS N.Y.S. THRUWAY INTERCHANGE

DESCRIPTION	STATION TO STATION	DESCRIPTION	L.F. (AVG.)	MILES
BEGIN RAMP "RT"	RT 22+27.50 — RT 23+61.26	END BRIDGE # 3	133.76	0.025
END BRIDGE # 3	RT 23+61.26 — RT 34+50	END RAMP "RT"	1088.74	0.206
BEGIN RAMP L	RL 34+51.09 — RL 60+89.90	END RAMP L	2638.81	0.500
BEGIN RAMP P	RP 34+50 — RP 51+40.61	END RAMP P	1690.61	0.320
BEGIN RAMP K	RK 10+00 — RK 37+65.51	END RAMP K	2765.51	0.524
BEGIN RAMP M	RM 10+00 — RM 40+23.71	END RAMP M	3023.71	0.573
		LENGTH OF N.Y.S. THRUWAY INTERCHANGE	11341.14	2.148

PLUS ROUTE 7 INTERCHANGE

DESCRIPTION	STATION TO STATION	DESCRIPTION	L.F. (AVG.)	MILES
RAMP C BEGIN PAVING	RC 11+00 — RC 23+36.82	EXIT RAMP	1236.82	0.234
RAMP D BEGIN PAVING	RD 11+00 — RD 23+44.42	ENTRANCE RAMP	1244.42	0.236
		LENGTH OF ROUTE 7 INTERCHANGE	2481.24	0.470

PLUS ROUTE 7

DESCRIPTION	STATION TO STATION	DESCRIPTION	L.F. (AVG.)	MILES
LIMIT OF WORK	RS 32+00 — RS 44+70	BEGIN PAVING	1270.00	0.240
BEGIN PAVING	RS 44+70 — RS 46+42.20 = SB 46+41.75	EQUALITY	172.20	0.033
EQUALITY	RS 46+42.20 = SB 46+41.75 — SB 71+66.24	BEGIN BRIDGE # 1	2524.49	0.478
BEGIN BRIDGE # 1	SB 71+66.24 — SB 73+78.75	END BRIDGE # 1	212.51	0.040
END BRIDGE # 1	SB 73+78.75 — SB 94+75	END PAVING	2096.25	0.397
END PAVING	SB 94+75 — SB 95+00	LIMIT OF WORK	25.00	0.005
		LENGTH OF ROUTE 7	6300.45	1.193

PLUS SIDE ROADS

DESCRIPTION	STATION TO STATION	DESCRIPTION	L.F. (AVG.)	MILES
BURDECK RD.	BR 10+20 — BR 15+75	MEET EXISTING PAVEMENT	555.00	0.105
OLD DUANESBURG RD.	ODW 10+21.93 — ODW 14+50	MEET EXISTING PAVEMENT	428.07	0.081
RISOLI LANE	R 10+00 — R 13+65	MEET EXISTING PAVEMENT	365.00	0.069
		LENGTH OF SIDE ROADS	1348.07	0.255

SUMMARY

MAINLINE I-88

CONTRACT LENGTH	8506.66 L.F.	1.611 MILES
PROJECT LENGTH	4596.66 L.F.	0.871 MILES
PLUS ROUTE 7 INTERCHANGE	2481.24 L.F.	0.470 MILES
PLUS ROUTE 7	6300.45 L.F.	1.193 MILES
PLUS N.Y.S. THRUWAY INTERCHANGE	11341.14 L.F.	2.148 MILES
PLUS SIDE ROADS	1348.07 L.F.	0.255 MILES

DRAINAGE STRUCTURE TABLE

LOCATION	DESCRIPTION
SB 54+40 LT	BUILD TYPE "H" DROP INLET 30' LT AND CONNECT TO CATCH BASIN AT SB 50+40 24' LT WITH 6' OF 12" CSP.
SB 58+20 RT	BUILD TYPE "H" DROP INLET 32' RT AND CONNECT TO DROP INLET AT SB 58+58 32' RT WITH 33.5' OF 12" CSP.
SB 58+58 RT	BUILD TYPE "H" DROP INLET 32' RT AND CONNECT TO DROP INLET AT SB 59+08 32' RT WITH 45' OF 12" CSP.
SB 59+08 RT	BUILD TYPE "H" DROP INLET 32' RT AND CONNECT TO CATCH BASIN AT SB 59+65 24' LT WITH 76.5' OF 18" RCP, CLASS III.
SB 64+60 LT	BUILD TYPE "H" DROP INLET 40' LT AND CONNECT TO DROP INLET AT SB 63+54 45' LT WITH 104' OF 12" CSP.
ODW 10+58 LT	BUILD TYPE "H" DROP INLET 20' LT AND CONNECT TO DROP INLET AT SB 64+60 40' LT WITH 90' OF 12" CSP.
ODW 10+90 LT	BUILD TYPE "H" DROP INLET 20' LT AND CONNECT TO DROP INLET AT ODW 10+68 20' LT WITH 29' OF 12" CSP.
ODW 14+50 LT	BUILD TYPE "H" DROP INLET 15' LT AND CONNECT TO EXISTING 18" CSP.
SB 65+60 RT	BUILD TYPE "H" DROP INLET 55' RT AND CONNECT TO EXISTING 12" CMP.
TP 770+20 RT	BUILD TYPE "V" DROP INLET 55' RT AND CONNECT TO MANHOLE AT TP 770+20 100' LT WITH 153' OF 24" RCP, CLASS III.
TP 770+20 LT	BUILD TYPE "A" MANHOLE 100' LT AND CONNECT TO DITCH AT TP 770+20 136' LT WITH 30.5' OF 24" RCP, CLASS III, WITH END SECTION LT.
TP 770+40 LT	BUILD TYPE "A" MANHOLE 110' LT AND CONNECT TO MANHOLE AT TP 770+20 100' LT WITH 25' OF 6" DIP.
TP 770+60 LT	BUILD TYPE "A" MANHOLE 105' LT AND CONNECT TO MANHOLE AT TP 770+20 100' LT WITH 40' OF 8" DIP.
TP 770+60 RT	BUILD TYPE "A" MANHOLE 60' RT AND CONNECT TO MANHOLE AT TP 770+60 105' LT WITH 165' OF 8" DIP.
TP 770+70 LT	BUILD TYPE "A" MANHOLE 90' LT AND CONNECT TO MANHOLE AT TP 773+00 60' RT WITH 225.25' OF 24" RCP, CLASS III.
TP 773+00 RT	BUILD TYPE "A" MANHOLE 60' RT AND CONNECT TO DITCH AT TP 773+25 190' RT WITH 139' OF 24" RCP, CLASS III, WITH END SECTION LT.
TP 773+00 RT	BUILD TYPE "C" CATCH BASIN 50' RT AND CONNECT TO MANHOLE AT TP 773+00 60' RT WITH 10' OF 18" RCP, CLASS III.
TP 771+20 RT	BUILD TYPE "C" CATCH BASIN 55' RT AND CONNECT TO MANHOLE AT TP 773+00 60' RT WITH 165' OF 24" RCP, CLASS III.

REVISIONS

TABLE OF LENGTHS, TABLE OF R.O.W. ACQUISITIONS,

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
MT-5	N/A	4/79	1

DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	43	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY

TABLE OF CENTERLINE - BASELINE OFFSETS

H.C.L. OR C.L. STA.	B.L. STATION	OFFSET	SIDE	BASELINE COORDINATES NORTH	BASELINE COORDINATES EAST	CL OR H.C.L. COORDINATES NORTH	CL OR H.C.L. COORDINATES EAST
EASTBOUND							
EB 704+00.00	AGS 725+75.79	198.378	RT	1013397.092	577782.608	1012900.225	577807.041
PC EB 704+94.58	AGS 726+69.34	184.501	RT	1013108.617	577875.450	1012925.521	577898.172
PI CURVE 250	AGS 731+21.22	117.475	RT	1013164.282	578323.884	1013047.700	578338.339
PT EB 714+08.07	AGS 735+53.48	123.384	RT	1013303.842	578732.707	1013187.322	578773.288
TS EB 732+88.22	AGS 754+27.06	169.311	RT	1013920.038	580502.056	1013760.148	580557.745
SC EB 734+88.22	AGS 756+27.03	172.467	RT	1013985.805	580690.900	1013822.935	580747.628
PI CURVE 260	AGS 762+03.07	326.353	RT	1014279.727	581183.719	1014027.614	581390.951
CS EB 748+11.45	AGS 768+77.94	309.102	RT	1014708.271	581705.075	1014469.484	581901.352
ST EB 750+11.45	AGS 770+77.92	306.254	RT	1014835.253	581859.558	1014598.666	582054.027
WESTBOUND							
WB 703+80.00	AGS 725+68.42	151.970	RT	1013096.184	577775.288	1012945.371	577794.005
PC WB 705+07.47	AGS 726+94.57	133.695	RT	1013111.724	577900.478	1012979.047	577916.941
PI CURVE 25	AGS 731+70.81	71.991	RT	1013177.986	578371.323	1013110.000	578395.000
PT WB 714+98.65	AGS 736+66.33	84.138	RT	1013340.957	578839.277	1013261.500	578866.950
TS WB 732+52.42	AGS 754+19.57	127.114	RT	1013917.575	580494.983	1013797.534	580536.794
SC WB 734+52.42	AGS 756+19.54	130.270	RT	1013983.342	580683.827	1013860.321	580726.677
PI CURVE 26	AGS 762+10.62	284.167	RT	1014284.524	581189.556	1014065.000	581370.000
CS 747+81.66	AGS 768+85.50	266.917	RT	1014713.068	581710.911	1014506.869	581880.401
ST 749+81.66	AGS 770+85.47	264.069	RT	1014840.050	581865.394	1014636.052	582033.076
RAMP C							
RC 10+00.00	AGS 768+00.30	102.219	RT	1014658.966	581645.092	1014580.000	581710.000
PC RC 12+35.90	AGS 770+35.95	113.128	RT	1014808.601	581827.134	1014721.208	581898.969
PI CURVE C1	AGS 771+96.41	120.556	RT	1014910.494	581951.095	1014817.362	582027.646
PT RC 15+56.98	AGS 773+55.68	141.430	RT	1015011.631	582074.136	1014902.373	582163.942
PC RC 16+43.55	AGS 774+41.51	152.679	RT	1015066.134	582140.442	1014948.186	582237.392
PI CURVE C2	AGS 778+77.78	209.857	RT	1015343.161	582477.467	1015181.042	582610.723
PT PC 25+21.82	AGS 783+17.66	199.751	RT	1015622.483	582817.283	1015468.171	582944.122
RAMP D							
PC RD 10+00.00	AGS 767+93.42	769.900	RT	1014654.595	581639.775	1014059.834	582128.655
PI CURVE D1	AGS 768+03.46	552.847	RT	1014660.976	581647.537	1014233.891	581998.691
PT RD 13+76.10	AGS 770+12.83	494.711	RT	1014793.920	581809.274	1014411.747	582123.411
PC RD 16+34.26	AGS 772+61.58	425.637	RT	1014951.875	582001.438	1014623.063	582271.714
PI CURVE D2	AGS 776+05.47	330.143	RT	1015170.246	582267.102	1014915.204	582476.740
PT RD 23+44.42	AGS 779+62.28	321.946	RT	1015396.820	582542.747	1015148.110	582747.179
TOLL PLAZA							
TP 763+88.32	AGS 784+59.05	258.635	RT	1015709.087	582922.643	1015509.287	583086.874
TP 775+88.32	AGS 796+53.73	231.073	RT	1016470.878	583849.419	1016292.370	583996.149
RAMP K							
RK 10+00.00	AGS 796+52.68	185.085	RT	1016470.207	583848.603	1016327.226	583966.131
PC RK 13+98.43	AGS 800+51.00	175.934	RT	1016723.143	584156.318	1016587.231	584268.035
PI CURVE K1	AGS 801+97.53	172.569	RT	1016816.187	584269.514	1016682.876	584379.093
PT RK 16+90.55	AGS 803+41.71	198.947	RT	1016907.737	584380.891	1016754.047	584507.221
PC RK 19+69.49	AGS 801+97.53	249.151	RT	1017081.856	584592.856	1016889.495	584751.065
	TWE 30+81.33	242.445	RT	1016944.153	584987.269		
PI CURVE K2	AGS 808+22.76	286.965	RT	1017213.203	584752.513	1016991.518	584934.734
	TWE 30+23.34	40.505	RT	1017000.651	584974.195		
PT RK 23+36.06	AGS 809+28.95	105.672	RT	1017280.632	584834.545	1017198.998	584901.646
	TWE 28+13.74	25.968	RT	1017204.854	584926.944		
PC RK 25+75.73	TWE 25+74.64	9.385	RT	1017437.793	584873.044	1017435.677	584863.901
PI CURVE K3	TWE 24+74.65	2.450	RT	1017535.208	584850.503	1017534.655	584848.116
PT RK 27+75.86	TWE 23+76.61	18.342	LT	1017630.732	584828.399	1017634.867	584846.269
PC RK 29+80.07	TWE 21+69.03	38.468	LT	1017836.340	584804.133	1017839.036	584842.506
PI CURVE K4	TWE 21+26.35	40.677	LT	1017878.910	584801.142	1017881.761	584841.719
PT RK 30+65.50	TWE 20+83.63	40.338	LT	1017921.535	584798.147	1017924.363	584838.386
RK 37+65.51	TWE 13+83.65	34.791	LT	1018619.792	584749.083	1018622.231	584783.789
RAMP M							
RM 10+00.00	AGS 796+54.19	251.067	RT	1016471.170	583849.774	1016277.216	584009.200
PC RM 11+42.01	AGS 797+96.17	247.806	RT	1016561.322	583959.451	1016369.888	584116.806
PI CURVE M1	AGS 806+16.74	228.954	RT	1017082.381	584593.358	1016905.510	584738.742
	TWE 30+62.95	250.841	RT	1016962.061	584983.125		
PT RM 23+52.53	TWE 38+40.61	12.330	RT	1016212.753	585180.283	1016206.822	585169.473
RM 27+50.00	TWE 42+37.57	7.769	LT	1015864.742	585371.245	1015868.479	585378.056
HCL SHIFT							
RM 27+50.00	TWE 42+38.33	7.212	RT	1015864.074	585371.612	1015860.607	585365.288
PC RM 32+23.71	TWE 47+11.44	16.742	LT	1015449.307	585599.206	1015457.366	585613.880
PI CURVE M2	TWE 51+14.02	9.621	RT	1015122.197	585831.730	1015116.213	585824.196
PT RM 40+23.71	TWE 55+14.57	3.706	LT	1014808.562	586080.879	1014810.869	586083.779
RAMP P							
PC RP 36+70.94	TWW 37+22.56	299.964	LT	1016242.306	585378.218	1016327.188	585665.922
PI CURVE P1	TWW 38+50.68	135.392	LT	1016126.169	585431.307	1016188.174	585551.666
PCC RP 40+16.39	TWW 40+10.89	53.456	LT	1015983.752	585504.676	1016008.233	585552.197
PI CURVE P2	TWW 42+04.28	45.456	RT	1015811.830	585593.246	1015791.011	585552.838
PCC RP 44+40.61	TWW 44+21.15	32.971	RT	1015619.047	585692.563	1015603.945	585663.254
PI CURVE P3	TWW 47+65.46	41.515	RT	1015328.221	585873.639	1015302.065	585841.440
PT RP 51+40.61	TWW 51+15.97	46.351	RT	1015056.420	586094.907	1015027.166	586058.954

H.C.L. OR C.L. STA.	B.L. STATION	OFFSET	SIDE	BASELINE COORDINATES NORTH	BASELINE COORDINATES EAST	CL OR H.C.L. COORDINATES NORTH	CL OR H.C.L. COORDINATES EAST
RAMP L							
PC RL 34+51.09	TWW 35+56.34	454.186	LT	1016401.730	585331.183	1016530.252	585766.806
PI CURVE L1	TWW 37+91.16	144.625	LT	1016179.082	585404.048	1016245.316	585532.615
PCC RL 39+83.86	TWW 34+22.35	8.423	LT	1016530.245	585293.267	1016532.628	585301.345
PI CURVE L2	TWW 33+14.57	35.988	RT	1016633.620	585262.768	1016623.436	585228.251
PCC RL 42+14.13	TWW 31+98.00	36.811	RT	1016745.424	585229.782	1016735.007	585194.475
PI CURVE L3	TWW 28+50.12	39.269	RT	1017029.087	585131.341	1017067.975	585093.677
PT RL 49+08.86	TWW 25+05.10	5.397	LT	1017410.006	585033.709	1017411.534	585038.886
PC RL 53+75.20	TWW 20+38.70	25.457	RT	1017874.364	584990.795	1017872.056	584965.442
PI CURVE L4	TWW 19+81.45	29.323	RT	1017931.376	584985.608	1017928.718	584956.406
PT RL 54+89.90	TWW 19+24.08	28.598	RT	1017988.514	584980.411	1017985.921	584951.931
RL 60+89.90	TWW 13+24.13	21.012	RT	1018585.997	584926.059	1018584.093	584905.133
TRUMPET RAMPS							
RT 10+00.00	AGS 796+53.73	231.073	RT	1016470.878	583849.419	1016292.370	583996.149
PC RT 11+63.02	AGS 798+16.71	227.329	RT	1016574.358	583975.322	1016398.752	584119.674
PI CURVE T1	AGS 800+43.63	222.116	RT	1016718.460	584150.621	1016546.872	584291.663
PT RT 16+13.24	AGS 802+61.04	287.312	RT	1016856.517	584318.577	1016634.563	584501.019
PC RT 26+00.27	TWW 29+89.98	250.742	LT	1016944.941	585170.919	1017015.894	585411.413
PI CURVE T2	TWW 28+48.63	1533.316	LT	1017080.518	585130.919	1017514.405	586601.565
PT RT 34+50.00	TWW 35+72.89	465.413	LT	1016385.855	585335.866	1016517.554	585782.257
THRUWAY							
TH 6064+00.00	TWE 10+67.68	91.289	LT	1018934.981	584726.936	1018941.380	584818.001
PC TH 6075+33.24	TWE 22+00.89	100.269	LT	1017804.564	584806.366	1017811.592	584906.389
	TWW 20+93.56	89.745	RT	1017819.722	584935.765		
PI TH 1	TWE 46+25.77	516.960	RT	1015524.413	585557.993	1015275.724	585104.781
PT TH 6122+64.57	TWE 70+14.41	61.414	LT	1013824.454	587194.601	1013875.704	587228.440
	TWW 67+46.79	67.140	RT	1013931.601	587265.633		
TH 6127+64.57	TWE 75.14.41	61.770	LT	1013548.954	587611.854	1013600.501	587645.889
	TWW 72+46.78	65.009	RT	1013654.623	587681.901		
ROUTE 7							
PC RS 27+71.30	S 68+12.30	37.258	LT.	1013323.133	581758.079	1013356.013	581740.594
PI RS CURVE 2	S 70+21.55	32.617	LT.	1013421.307	581942.858	1013450.109	581927.550
PT RS 31+89.89	S 72+30.68	24.156	LT.	1013519.445	582127.532	1013540.774	582116.193
TS RS 38+75.26	S 79+15.48	3.551	RT.	1013840.804	582732.259	1013837.665	582733.919
SC RS 40+50.26	S 80+90.28	11.961	RT.	1013922.830	582886.612	1013912.264	582892.218
PI RS CURVE 3	S 82+13.62	7.731	RT.	1013973.448	582998.700	1013966.148	583001.247
CS RS 42+93.01	S 83+35.23	8.703	RT.	1014013.506	583113.527	1014005.289	583116.394
ST RS 44+68.01	S 85+10.22	6.843	RT.	1014071.146	583278.748	1014064.685	583281.002
RS 46+42.00 =	S 86+84.20	6.322	RT.	1014128.456	583443.026	1014122.487	583445.108
SB 46+41.75	S 86+84.44	14.321	RT.	1014128.532	583443.245	1014115.010	583447.962
SB 46+41.75	S 86+84.44	14.321	RT.	1014128.532	583443.245	1014115.010	583447.962
TS SB 47+73.08	S 88+15.76	13.928	RT	1014171.791	583567.244	1014158.640	583571.831
SC SB 49+48.08	S 89+90.75	12.291	RT	1014229.431	583732.468	1014217.826	583736.516
PI CURVE SB1	S 97+00.20	66.829	RT	1014510.773	584377.888	1014456.076	584416.285
CS SB 63+72.17	S 104+18.38	11.407	RT	1014923.398	584965.693	1014914.054	584972.250
ST SB 65+47.17	S 105+92.96	0.677	LT	1015023.701	585108.580	1015024.258	585108.195
TS SB 69+68.34	S 110+12.92	32.433	LT	1015264.989	585.452.307	1015291.538	585433.678
SC SB 71+43.34	S 111+86.36	45.197	LT	1015363.355	585595.136	1015401.035	585570.177
PI CURVE SB2	S 121+90.05	189.568	LT	1015806.674	586449.872	1016055.962	586364.563
CS SB 90+73.30	S 131+50.58	13.996	LT	1015897.329	587302.275	1015911.232	587383.892
ST SB 92+48.30	S 133+25.18	15.166	LT	1015873.947	587555.281	1015888.956	587557.459
SB 95+00.00	S 135+76.68	16.382	LT	1015837.846	587804.378	1015854.058	587806.728
BURDECK RD							
BR 10+00	S 124+63.03	88.20	RT.	1015977.167	586699.398	1015889.550	586689.155
PC BR 11+97.31	S 124+15.33	97.52	LT.	1015984.902	586633.240	1016081.760	586644.564
PI BR CURVE 1	S 124+57.44	214.92	LT.	1015989.792	586591.417	1016203.261	586616.375
PT BR 14+31.50	S 124+14.93	323.95	LT.	1015982.756	586651.598	1016304.510	586689.216
BR 16+00	S 124+96.79	471.23	LT.	1015973.251	586732.899	1016441.291	586787.619
RISOLI LANE							
RL 10+00	S 135+03.55	16.03	LT.	1015848.364	587731.805	1015864.225	587734.104
OLD DUANESBURG RD.							
ODW 10+00	S 105+75.04	1.248	LT.	1015013.407	585093.916	1015014.429	585093.199
PC ODW 10+29.05	S 105+73.29	30.25	LT.	1015012.403	585092.485	1015037.164	585075.104
PI ODW CURVE 1	S 105+71.61	58.21	LT.	1015011.435	585091.106	1015059.078	585057.662
PT ODW 10+77.93	S 105+97.30	69.36	LT.	1015026.198	585112.137	1015082.953	585072.289
ODW 15+00	S 109+84.51	237.31	LT.	1015248.670	585429.059	1015442.903	585292.712

CENTERLINE-BASELINE CONTROL

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
MT-6	NONE	4/79	REGION I

DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ DESIGNED BY ____ CHECKED BY ____ ESTIMATED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	N.Y.	I-88-2(10)	44R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY– DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

SUMMARY OF EARTHWORK (ITEMS 203.02 AND 203.03 ONLY)

Source	EXCAVATION			203.02	203.03
	T_e	C_r	T_u	C_T	F_T
~~I-88 M EB & WB~~	~~206087~~		~~5919~~	~~212006~~	~~5549~~
~~RAMPS~~	~~182748~~		~~15748~~	~~198496~~	~~118810~~
~~TOLL PLAZA (FAI)~~	~~4889~~		~~5163~~	~~10052~~	~~31382~~
~~ROUTE 7~~	~~32518~~		~~3305~~	~~35823~~	~~55973~~
~~THRUWAY~~	~~3697~~		~~1201~~	~~4898~~	~~4619~~
~~DRAINAGE~~	~~39921~~		~~2392~~	~~42313~~	~~229~~
~~TOLL PLAZA (STATE)~~	~~6528~~		~~2804~~	~~9332~~	~~13553~~
Totals	~~476388~~		~~36532~~	~~512920~~ 560,829.41	~~230115~~ 252,493.27

SUMMARY OF EARTHWORK (ITEM 203.01 ONLY)

Source	EXCAVATION			C_T	F_T
	T_e	C_r	T_u		
N.I.C.					
Totals					

Assumed f_e = _____ and f_r = _____

$T_A = T_e f_e + C_r f_r =$

T_A = _____ + _____ = _____ cu. yds.

Deficiency = $F_T - T_A$ =

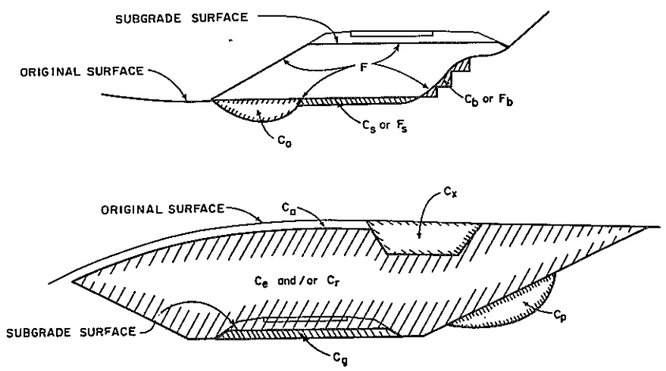
Deficiency = _____ - _____ = _____ cu. yds.

Borrow = Deficiency ÷ f_e =

Borrow = _____ ÷ _____ = _____ cu. yds.

Total 203.01 = C_T + Borrow =

Total 203.01 = _____ + _____ = _____ cu. yds.



- C_e - PORTION OF CUT ASSUMED TO BE EARTH SUITABLE FOR EMBANKMENT CONSTRUCTION, EXCLUDING C_g AND C_p.
- C_r - PORTION OF CUT ASSUMED TO BE ROCK, INCLUDING C_g IF APPLICABLE.
- C_p - EXCAVATION FROM CUT SLOPE NECESSARY TO PLACE SLOPE PROTECTION.
- C_b - EXCAVATION FOR REQUIRED BENCHING (BOTH LONGITUDINAL AND TRANSVERSE).
- C_g - EXCAVATION FOR SUBGRADE IMPROVEMENT.
- T_e - ($C_e + C_p + C_b + C_g$) TOTAL EARTH EXCAVATION ASSUMED SUITABLE FOR EMBANKMENT CONSTRUCTION.
- C_o - EXCAVATION OF UNSUITABLE MATERIAL BENEATH EMBANKMENT: SWAMP OR DUMP.
- C_a - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) IN CUT.
- C_m - EXCAVATION OF TOPSOIL (UNSUITABLE MATERIAL) UNDER EMBANKMENT.
- C_x - EXCAVATION OF UNSUITABLE MATERIAL IN CUT: SWAMP OR DUMP.
- T_u - ($C_o + C_a + C_m + C_x$) TOTAL EXCAVATION ASSUMED UNSUITABLE FOR EMBANKMENT CONSTRUCTION.
- C_T - ($T_e + T_u + C_r$) TOTAL EXCAVATION.
- F_b - FILL REQUIRED TO REPLACE BENCHES.
- F_m - FILL REQUIRED TO REPLACE TOPSOIL REMOVED BENEATH EMBANKMENTS.
- F - FILL REQUIRED TO COMPLETE EMBANKMENT TO THE SUBGRADE SURFACE AND SIDE SLOPES AFTER THE FOUNDATION HAS BEEN PREPARED.
- F_T - ($F_b + F_m + F$) TOTAL FILL REQUIRED.
- T_A - ($T_e f_e + C_r f_r$) THE VOLUME WHICH THE SUITABLE EXCAVATED MATERIAL COULD OCCUPY IN EMBANKMENT.
- f_e - SHRINKAGE FACTOR FOR EARTH.
- f_r - SWELL FACTOR FOR ROCK.

NOTES: THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT CONDITIONS AND QUANTITIES AS SHOWN ON THESE TABLES ARE ESTIMATED, AND ARE FOR THE PURPOSE OF PREPARING AN ESTIMATE. IN ANY EVENT, THESE CONDITIONS AND QUANTITIES ARE NOT TO BE DEEMED OR CONSIDERED BY THE CONTRACTOR AS A WARRANTY OR A REPRESENTATION BY THE STATE OF ACTUAL FIELD CONDITIONS TO BE ENCOUNTERED OR EXACT QUANTITIES OF WORK TO BE PERFORMED.

WHEN EXCAVATION IS PAID FOR UNDER ITEM 203.01, UNCLASSIFIED EXCAVATION AND EMBANKMENT, THE EARTHWORK FACTORS, f_e AND f_r, ARE ASSUMED, AND HAVE BEEN USED TO ESTIMATE THE QUANTITY OF BORROW OR SURPLUS MATERIAL.

EXPLANATION OF EARTHWORK DESIGN

1) EXCAVATION FOR ITEM 01203.2001 - SELECT GRANULAR SUBGRADE (MODIFIED) IS INCLUDED IN Cg.

2) NO QUANTITIES HAVE BEEN INCLUDED FOR MATERIAL FROM TRENCH AND CULVERT EXCAVATIONS WHICH MAY BE SUITABLE FOR EMBANKMENT CONSTRUCTION.

3) EXCAVATION FOR PLACEMENT OF SLOPE PROTECTION ITEM 203.08 IS NECESSARY IN THE FOLLOWING AREAS:

"MB" STA. 746+00± TO "MB" STA. 753+00± LT.
"RC" STA. 11+50± TO "RC" STA. 22+00± LT.
"RD" STA. 15+00± TO "RD" STA. 22+50± RT.
AND OTHER AREAS AS ORDERED BY THE ENGINEER

4) EXCAVATE ORGANIC MATERIAL AND BACKFILL WITH 1' OF ITEM 203.20 - SELECT GRANULAR SUBGRADE AT THE FOLLOWING LOCATIONS:

"TP" STA. 764+00± TO "TP" STA. 773+00±
AND OTHER AREAS AS ORDERED BY THE ENGINEER.

REVISIONS

EARTHWORK SUMMARY
SHEET ES-1

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
MT-7	NONE	4/78	REGION I

HQ 47a (10-74)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	45A	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY

SUBDIVISION No.	LOCATION (Station to Station)	SUITABLE EXCAVATION C_r	C_e	C_p	C_b	C_g	$T_e=C_e+C_p+C_b+C_g$	UNSUITABLE EXCAVATION C_o	C_a	C_s	C_x	$T_u=C_o+C_a+C_s+C_x$	TOTAL EXCAVATION $C_T=C_r+T_e+T_u$	EMBANKMENT F_b	F_s	F	$F_T=F_b+F_s+F$	AVAILABLE FOR EMBANKMENT (203.01 ONLY) $T_e f_e + C_r F_r$
1	I-88 ℄ STA. 743+00 — 763+88.32		189789	5181		11117	206087		5156	763		5919	212006		763	4786	5549	
2	RAMP "C"		78208	1849		1879	81936		1656			1656	83592					
3	RAMP "D"		35610	1198	125	2318	39251		1257			1257	40508	125		4596	4721	
4	TOLL PLAZA (FAI) TP763+88.32-768+76.32 772+00.32-775+88.32		4889				4889	3306	969	888		5163	10052		888	30494	31382	
5	RT RAMP (RURAL) RT 10+00 - RT 21+69		828				828		204			204	1032			61490	61490	
6	RAMP "K"		5288			930	6218		1673	1035		2708	8926		1035	6317	7352	
7	RAMP "M"		5733			429	6162		1603	1543		3146	9308		1543	20240	21783	
8	RTE 7 (RURAL) SB 46+42 - SB 71+57		21171		1026		22197		1378	886		2264	24461	1026	886	29083	30995	
9	THRUWAY GRADING TH6083+00-TH6090+00 RT		2186				2186		254	530		784	2970		530	3992	4522	
10	THRUWAY DRAINAGE DITCH		29757				29757		2073			2073	31830			98	98	
11	DRAINAGE DITCH TP772+00-RT12+00		2270				2270		319			319	2589					
12	RAMP "L"		22378			4612	26990		3113	30		3143	30133		30	29	59	
13	RAMP "P"		13965			2532	16497		2108	281		2389	18886		281	959	1240	
14	RT RAMP (URBAN) RT 23+39 - RT 34+50		3641			1225	4866		986	259		1245	6111		259	21906	22165	
15	RTE 7 (URBAN) SB74+57 - SB 94+23		8318		2003		10321		824	217		1041	11362	2003	217	22758	24978	
16	THRUWAY GRADING TH6089+00-TH6095+00 LT		1511				1511		350	67		417	1928		67	30	97	
17	TOLL PLAZA TP768+76.32-TP772+00.32 (100% STATE)		6528				6528	2754		50		2804	9332		50	13503	13553	
18	MISCELLANEOUS DRAINAGE		7894				7894						7894			131	131	
	Totals		~~439964~~	~~8228~~	~~3154~~	~~25042~~	~~476388~~	~~6060~~	~~23923~~	~~6549~~		~~36532~~	~~512920~~ 560,829.41	~~3154~~	~~6549~~	~~220412~~	~~230115~~ 252,493.27	

REVISIONS

DEFINITIONS AND NOTES ARE LOCATED ON SHEET ES-1

EARTHWORK SUMMARY
SHEET ES-2

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

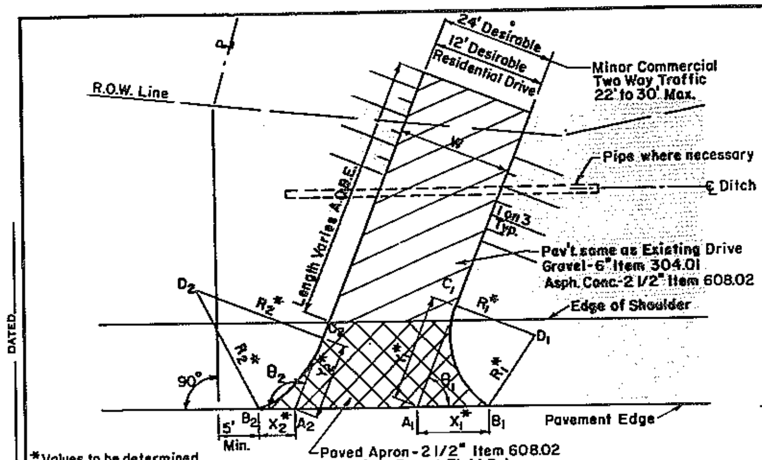
DRAWING NO.	SCALE	DATE	REGION
MT-8	NONE	4/79	1

IN CHARGE OF ____ DATED ____ DESIGNED BY ____ DATED ____ CHECKED BY ____ DATED ____ REVIEWED BY ____ DATED ____

D96243

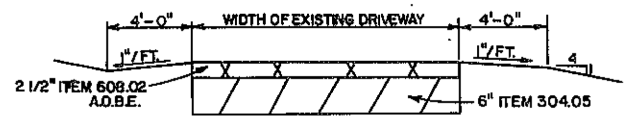
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	4621	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY–DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

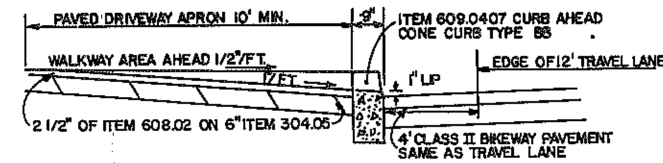


*Values to be determined from Tables 1 or 2

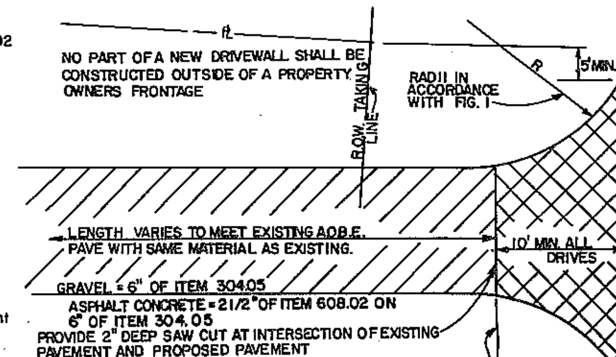
FIGURE 1 - RESIDENTIAL OR COMMERCIAL DRIVEWAY OUTLINE



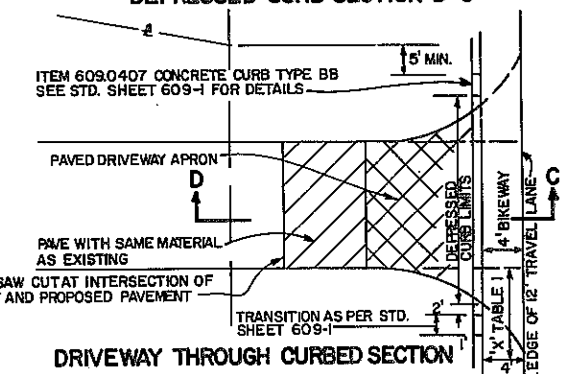
PAVED DRIVEWAY SECTION



DEPRESSED CURB SECTION D-C



DRIVEWAY PLAN



DRIVEWAY THROUGH CURBED SECTION

NOTE:
ALL DRIVEWAYS TO BE REPLACED IN ACCORDANCE WITH THE STATE OF NEW YORK POLICY AND STANDARDS FOR ENTRANCES TO STATE HIGHWAYS EFFECTIVE JANUARY 1, 1973, AS PROVIDED FOR IN ARTICLE 3, SECTION 54-a OF HIGHWAY LAW.

TABLE OF DRIVEWAYS

STATION	SIDE	TYPE	℄ CROSSING	REMARKS
ROUTE 7				
SB46+53	LT.	26' MAC. DR. (LIBRARY)	CURB	
SB49+21	LT.	12' MAC. DR.	CURB	
SB49+73	LT.	14' MAC. DR.	CURB	
SB50+56	LT.	15' MAC. DR.	CURB	
~~SB53+73~~	RT.	26' MAC. DR. (SCHOOL)	~~CURB~~	
SB54+42	LT.	23' MAC. DR.	CURB	
~~SB54+89~~ 55+46	RT.	~~41' MAC. DR.~~ 18' MAC. DR.	CURB	
SB56+35	RT.	17' MAC. DR.	CURB	
SB ~~57+50~~ 57+70	LT.	10' MAC. DR.	CURB	
SB ~~58+21~~ 58+10	RT.	10' MAC. DR.	CURB	
SB ~~56+27~~ 58+00	LT.	8' GRASS DR.	CURB	
SB58+58	RT.	11' ~~CONC. DR.~~ MAC. DR.	CURB	
SB58+76	LT.	10' MAC. DR.	CURB	
SB ~~59+22~~ 59+10	RT.	10' MAC. DR.	CURB	
SB59+61	LT.	11' MAC. DR.	CURB	
SB59+79	RT.	12' MAC. DR.	CURB	
SB60+11	LT.	11' MAC. DR.	CURB	
SB60+28	LT.	12' GRAVEL DR.	CURB	
SB60+55	RT.	11' MAC. DR.	CURB	
SB60+97	RT.	10' MAC. DR.	CURB	
SB61+11	LT.	10' MAC. DR.	CURB	
SB ~~61+72~~ 61+60	LT.	13' MAC. DR.	CURB	
SB62+29	RT.	11' STONE DR.	CURB	
SB ~~63+53~~ 63+25	RT.	10' MAC. DR.	CURB & 12" C.M.P.	20 LF W/2 E.S.
SB64+07	LT.	10' ~~GRAVEL DR.~~ MAC. DR.	—	
SB64+29	RT.	16' GRAVEL DR.	12" C.M.P.	32 L.F. W/2 E.S.
SB65+25	RT.	11' MAC. DR.	12" C.M.P.	24 L.F. W/2 E.S.
~~SB65+70~~ 65+30	RT.	10' MAC. DR.	12" C.M.P.	22 L.F. W/2 E.S.
SB83+60	RT.	16' MAC. DR.	12" C.M.P.	36 L.F. W/2 E.S.
SB86+53	LT.	20' STONE DR.	12" C.M.P.	32 L.F. W/2 E.S.
SB87+19	LT.	12' STONE DR.	12" C.M.P.	24 L.F. W/2 E.S.
~~SB88+29~~ 88+40	LT.	10' MAC. DR.	12" C.M.P.	22 L.F. W/2 E.S.
~~SB 89+31~~ 89+40	LT.	20' MAC. DR.	~~GUTTER~~	
~~SB 89+~~	~~RT.~~	~~10'~~	~~GUTTER~~	DELETED
SB 90+09	LT.	11' MAC. DR.	GUTTER	
SB 91+15	RT.	16' MAC. DR.	GUTTER	
SB 90+46	LT.	11' MAC. DR.	GUTTER	
SB 91+23	RT.	12' MAC. DR.	GUTTER	
SB 91+51	LT.	12' CONC. DR.	GUTTER	
SB 91+54	RT.	12' MAC. DR.	GUTTER	
SB 92+29	LT.	10' MAC. DR.	GUTTER	
SB 92+69	LT.	10' MAC. DR.	GUTTER	
SB 92+73	RT.	10' MAC. DR.	GUTTER	
SB 93+66	RT.	13' MAC. DR.	GUTTER	
SB 93+72	LT.	10' MAC. DR.	GUTTER	
SB 94+58	RT.	20' MAC. DR.	GUTTER	
OLD DUANESBURG RD.				
ODW 10+65	LT.	11' MAC. DR.	USE EXISTING	
ODW 11+00	LT.	11' MAC. DR.	USE EXISTING	
ODW 12+00	LT.	14' MAC. DR.	USE EXISTING	
ODW 13+10	LT.	10' MAC. DR.	USE EXISTING	
BURDECK RD.				
BR 11+30	RT.	USE OLD DUANESBURG RD.		
BR ~~12+70~~ 12+60	RT.		USE EXISTING	
BR 15+00	RT.		USE EXISTING	
BR 15+75	RT.		USE EXISTING	

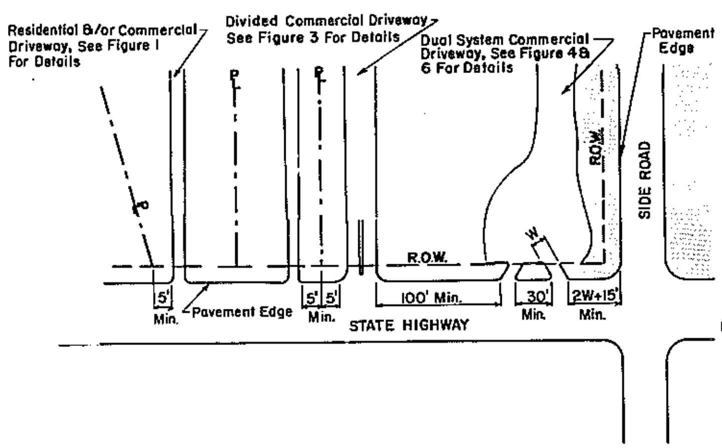
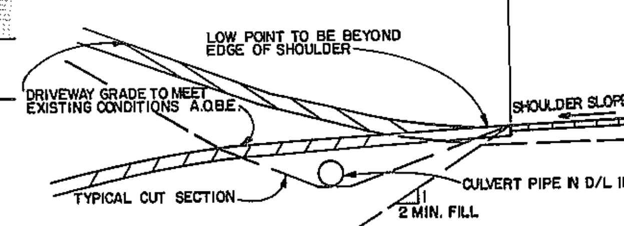
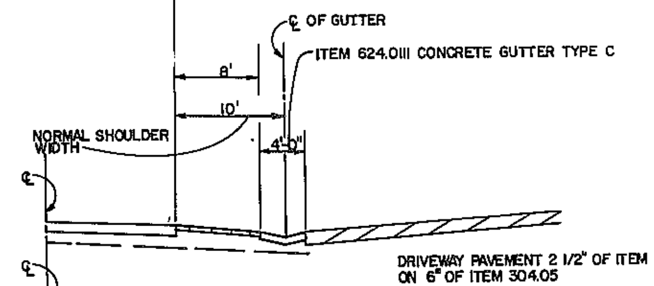


FIGURE 2 - DRIVEWAY LOCATION STANDARDS



PROFILE NORMAL SHOULDER



SECTION THROUGH GUTTER

NOTE: FOR EXISTING CONCRETE DRIVEWAYS PAVE WITH 4 1/2" OF ITEM 555.02-CLASS B CONCRETE OVER 6" OF GRAVEL ITEM 304.05.

TABLE 1
RECOMMENDED DESIGN VALUES FOR RESIDENTIAL DRIVEWAYS
(R, X AND Y IN FEET)

DRIVEWAY WIDTH (Feet)	60 R	60 X	60 Y	65 R	65 X	65 Y	70 R	70 X	70 Y	75 R	75 X	75 Y	80 R	80 X	80 Y	85 R	85 X	85 Y	90 R	90 X	90 Y
8	19.0	23.2	30.6	19.0	20.3	27.6	19.0	17.9	25.1	19.0	15.8	22.6	19.0	13.9	20.5	19.0	12.1	19.0	19.0	10.5	17.1
9	18.5	22.6	29.8	18.5	19.8	26.8	18.4	17.3	24.3	18.4	15.3	21.9	18.3	13.3	19.8	18.2	11.7	18.2	18.1	10.0	16.3
10	18.1	22.1	29.1	18.0	19.3	26.1	17.9	16.8	23.5	17.8	14.8	21.2	17.6	12.8	19.0	17.4	11.1	17.4	17.2	9.5	15.5
11	17.6	21.5	28.3	17.5	18.7	25.4	17.3	16.2	22.8	17.1	14.3	20.4	16.9	12.3	18.3	16.6	10.6	16.6	16.3	9.0	14.7
12	17.1	20.9	27.5	17.0	18.2	24.6	16.7	15.7	22.0	16.5	13.7	19.6	16.2	11.8	17.5	15.8	10.1	15.8	15.4	8.5	13.9
13	16.6	20.3	26.7	16.4	17.6	23.9	16.2	15.2	21.4	15.9	13.2	18.9	15.5	11.3	16.8	15.1	9.6	15.0	14.5	8.0	13.0
14	16.2	19.8	26.0	15.9	17.1	23.1	15.6	14.7	20.6	15.3	12.7	18.2	14.8	10.8	16.0	14.3	9.1	14.3	13.6	7.5	12.2
15	15.7	19.2	25.3	15.4	16.5	22.4	15.1	14.2	19.9	14.6	12.1	17.5	14.1	10.3	15.3	13.5	8.6	13.5	12.7	7.0	11.4
16	15.2	18.6	24.5	14.9	15.9	21.6	14.5	13.6	19.1	14.0	11.6	16.7	13.4	9.8	14.5	12.7	8.1	12.7	11.8	6.5	10.6
18	14.3	17.4	23.0	13.9	14.9	20.1	13.4	12.6	17.7	12.8	10.5	15.2	12.0	8.7	13.0	11.1	7.1	11.1	10.0	5.5	9.0
20	13.4	16.3	21.6	12.8	13.7	18.6	12.2	11.5	16.1	11.5	9.5	13.7	10.6	7.7	11.4	9.5	6.1	9.5	8.2	4.5	7.4
22	12.4	15.1	20.0	11.8	12.6	17.1	11.1	10.5	14.7	10.3	8.5	12.2	9.2	6.7	9.9	8.0	5.1	8.0	6.4	3.5	5.7
24	11.5	14.0	18.5	10.8	11.6	15.6	10.0	9.4	13.2	9.0	7.5	10.7	7.8	5.7	8.4	6.4	4.1	6.4	5.4	3.0	4.8

CORNER ANGLE (DEGREES)

DRIVEWAY WIDTH (Feet)	90 R	90 X	90 Y	95 R	95 X	95 Y	100 R	100 X	100 Y	105 R	105 X	105 Y	110 R	110 X	110 Y	115 R	115 X	115 Y	120 R	120 X	120 Y
8	19.0	10.5	17.1	19.0	9.1	15.4	19.0	7.8	13.9	19.0	6.7	12.5	19.0	5.5	11.2	19.0	4.6	9.9	19.0	3.6	8.7
9	18.1	10.0	16.3	18.0	8.6	14.5	17.8	7.3	13.0	17.5	6.1	11.6	17.2	5.0	10.1	16.7	4.1	8.7	16.0	3.1	7.3
10	17.2	9.5	15.5	16.9	8.1	13.7	16.5	6.8	12.1	16.0	5.6	10.6	15.4	4.5	9.1	14.4	3.5	7.5	15.7	3.0	7.1
11	16.3	9.0	14.7	15.9	7.6	12.8	15.3	6.3	11.2	14.6	5.1	9.6	13.5	3.9	8.0	12.5	3.0	6.5	15.7	3.0	7.1
12	15.4	8.5	13.9	14.8	7.1	12.0	14.1	5.8	10.3	13.1	4.6	8.6	11.7	3.4	6.9	12.5	3.0	6.5	15.7	3.0	7.1
13	14.5	8.0	13.0	13.8	6.6	11.1	12.8	5.3	9.3	11.6	4.0	7.6	10.3	3.0	6.0	12.5	3.0	6.5	15.7	3.0	7.1
14	13.6	7.5	12.2	12.7	6.1	10.3	11.6	4.8	8.4	10.1	3.5	6.7	10.3	3.0	6.0	12.5	3.0	6.5	15.7	3.0	7.1
15	12.7	7.0	11.4	11.7	5.6	9.4	10.4	4.3	7.5	8.6	3.0	5.7	10.3	3.0	6.0	12.5	3.0	6.5	15.7	3.0	7.1
16	11.8	6.5	10.6	10.6	5.1	8.6	9.1	3.7	6.6	8.6	3.0	5.7	10.3	3.0	6.0	12.5	3.0	6.5	15.7	3.0	7.1
18	10.0	5.5	9.0	8.5	4.1	6.9	7.3	3.0	5.3	8.6	3.0	5.7	10.3	3.0	6.0	12.5	3.0	6.5	15.7	3.0	7.1
20	8.2	4.5	7.4	6.4	3.1	5.2	7.3	3.0	5.3	8.6	3.0	5.7	10.3	3.0	6.0	12.5	3.0	6.5	15.7	3.0	7.1
22	6.4	3.5	5.7	6.3	3.0	5.1	7.3	3.0	5.3	8.6	3.0	5.7	10.3	3.0	6.0	12.5	3.0	6.5	15.7	3.0	7.1
24	5.4	3.0	4.8	6.3	3.0	5.1	7.3	3.0	5.3	8.6	3.0	5.7	10.3	3.0	6.0	12.5	3.0	6.5	15.7	3.0	7.1

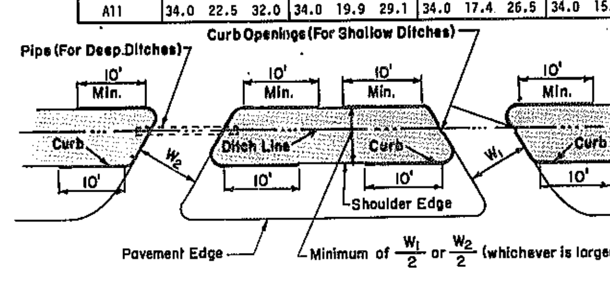
TABLE 2
RECOMMENDED DESIGN VALUES FOR COMMERCIAL DRIVEWAYS
(R, X AND Y IN FEET)

CORNER ANGLE (DEGREES)

DRIVEWAY WIDTH (Feet)	60 R	60 X	60 Y	65 R	65 X	65 Y	70 R	70 X	70 Y	75 R	75 X	75 Y	80 R	80 X	80 Y	85 R	85 X	85 Y	90 R	90 X	90 Y
All	34.0	46.2	56.6	34.0	40.9	51.2	34.0	36.3	46.4	34.0	32.3	42.2	34.0	28.7	38.5	34.0	25.4	35.1	34.0	22.5	32.0

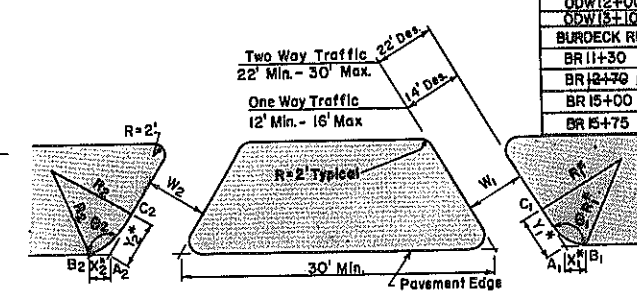
CORNER ANGLE (DEGREES)

DRIVEWAY WIDTH (Feet)	90 R	90 X	90 Y	95 R	95 X	95 Y	100 R	100 X	100 Y	105 R	105 X	105 Y	110 R	110 X	110 Y	115 R	115 X	115 Y	120 R	120 X	120 Y
All	34.0	22.5	32.0	34.0	19.9	29.1	34.0	17.4	26.5	34.0	15.1	24.0	34.0	13.0	21.7	34.0	11.1	19.4	34.0	9.3	17.3



*If the distance between driveways (measured along the pavement edge) is less than 75 feet, the entire area between driveways must be curbed (with openings as necessary for drainage purposes)

DETAIL OF A COMMERCIAL DRIVEWAY INSTALLATION ON A HIGHWAY WITH SHOULDERS (DUAL SYSTEM DRIVEWAY)
FIGURE 6



*VALUES TO BE DETERMINED FROM TABLE 2

FIGURE 4 - DUAL SYSTEM COMMERCIAL DRIVEWAY OUTLINE

REVISIONS

DRIVEWAY DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DATE	SCALE	DRAWING NO.	REGION NO.
3/79	NONE	MT-9	1

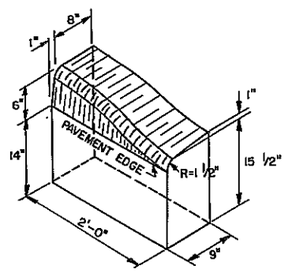
DESIGNED BY ___ DATED ___ REVIEWED BY ___ DATED ___ CHECKED BY ___ DATED ___ IN CHARGE OF ___

D96243

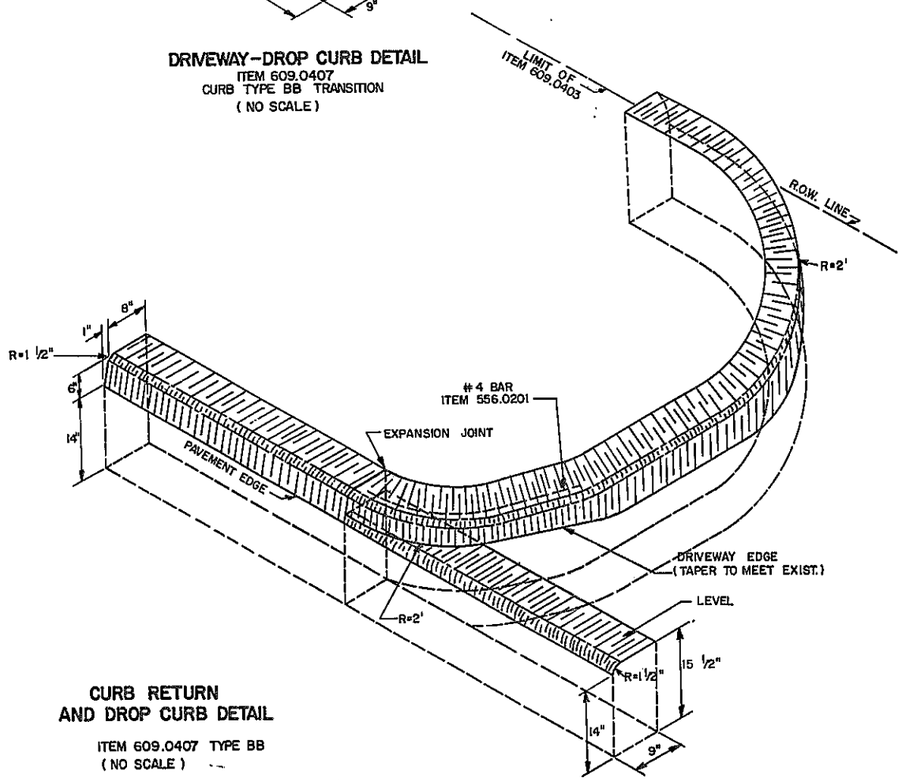
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	47A1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY

DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____



DRIVEWAY-DROP CURB DETAIL
ITEM 609.0407
CURB TYPE BB TRANSITION
(NO SCALE)



CURB RETURN AND DROP CURB DETAIL
ITEM 609.0407 TYPE BB
(NO SCALE)

ITEM 609.0407 – CONCRETE CURB TYPE BB

STATION TO STATION	L.F.	REMARKS
"RS" 44+70 TO "RS" 46+42.20 LT.	172 L.F.	
"SB" 46+41.75 TO "SB" 63+90 LT.	~~1748 L.F.~~	1654.5 L.F.
"SB" 54+33 TO "SB" 64+25 RT.	~~992 L.F.~~	1002 L.F.
DRIVEWAY "SB" 46+50 LT.	60 L.F.	
DRIVEWAY "SB" 54+42 LT.	16 L.F.	
TOTAL	~~2988 L.F.~~	2904.5 L.F.

ITEM 609.0405 – CONCRETE CURB TYPE AB

STATION TO STATION	L.F.	REMARKS
"ODW" AND ROUTE 7 INT.	147 ~~135~~ L.F.	ISLAND
ANTONIA DRIVE	81.5 ~~40~~ L.F.	
TOTAL	228.5 ~~175~~ L.F.	

DISPOSAL OF BUILDINGS

ITEM	LOCATION	TYPE
202.0101	"SB" 68+00 LT.	1 1/2 STY. FR. HOUSE
202.0102	"SB" 68+55 LT.	1 STY. FR. HOUSE
~~202.0103~~	~~"SB" 69+00 LT.~~	~~GARAGE~~
~~202.0104~~	~~"SB" 69+25 LT.~~	~~1 1/2 STY. FR. HOUSE~~

ITEM 624.0111 – CONCRETE GUTTER

STATION TO STATION	S.Y.	REMARKS
"SB" 89+10 TO "SB" 94+04 RT.	~~220 S.Y.~~	195 S.Y.
"SB" 88+72 TO "SB" 94+04 LT.	~~236 S.Y.~~	338 S.Y.
TOTAL	~~456 S.Y.~~	533 S.Y.

ITEM 607.0822 – OPTIONAL CHAIN LINK FENCING WITH TOP TENSION WIRE – 6' HIGH

STATION TO STATION	SIDE	L.F.	ALLOWANCE	TOTAL L.F.
"RD" 21+80 TO "RM" 32+00	RT.	4229.5 ~~4514~~	510 ~~100~~	4739.5 ~~4614~~
"RM" 33+00 "RM" 34+52	RT.	152	70	222
"RM" 32+83 TO "RM" 33+33	RT.	~~50~~	~~10~~	~~60~~
"RP" 46+00 "RP" 47+55	LT.	155	40	195
"RP" 45+89 TO "RP" 46+42	LT.	~~53~~	~~10~~	~~63~~
"RP" 45+25 "RL" 49+00	RT.	2882.8	370	3252.8
"RP" 46+15 TO "RL" 49+61	RT.	~~2806~~	~~95~~	~~2901~~
"TP" 770+00 TO "TP" 768+95	LT.	105	10	115
TOTAL		~~7423~~ 7524.3	~~215~~ 1000	~~7638~~ 8524.3

ITEM 607.11 RIGHT-OF-WAY FENCING

STATION TO STATION	SIDE	L.F.	ALLOWANCE	TOTAL L.F.
"WB" 760+03 TO "RK" 24+40	LT.	2875.5 ~~2900~~	340 ~~140~~	3215.5 ~~3040~~
"RL" 50+00 "RL" 53+25	RT.	388	60	448
~~"RL" 49+95 TO "RL" 53+44~~	RT.	~~407~~	~~20~~	~~427~~
Penghurst Road	RT.	72	40	112
TOTAL		~~3307~~ 3335.5	~~160~~ 440	~~3467~~ 3775.5

ITEM 05607.60 – REMOVING AND STORING CHAIN LINK FENCING

STATION TO STATION	SIDE	L.F.
"TH" 6095+85 TO "TH" 6100+50	LT.	465
"TH" 6095+85 TO "TH" 6100+60	RT.	~~570~~ 543
TOTAL		~~1035~~ 1008

ITEM 01607.60 – REMOVING AND STORING RIGHT-OF-WAY FENCING

STATION TO STATION	SIDE	L.F.
"TH" 6075+00 TO "TH" 6095+85	LT.	~~1695~~ 1925
"TH" 6081+00 TO "TH" 6095+85	RT.	~~1260~~ 1665
TOTAL		~~2955~~ 3590

REVISIONS

MISCELLANEOUS DETAILS AND TABLES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
MT-10	AS SHOWN	6/79	REGION I

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	48	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

BOX BEAM GUIDE RAILING

ITEM 606.10 – BOX BEAM GUIDE RAILING
ITEM 606.11 – BOX BEAM GUIDE RAILING (SHOP CURVED)
ITEM 606.14 – BOX BEAM GUIDE RAILING END ASSEMBLY
ITEM 15606.4801 I-BEAM BACK UP POSTS FOR GUIDE RAILING

* TO BE RESET – SEE ITEM 606.52 & ITEM 606.58

STATION TO STATION	SIDE	606.10 L.F.	606.11 L.F.	RADIUS	606.14 EA.	15606.4801
MAINLINE						
EB ~~731+98~~ 731+85 TO EB ~~733+33~~ 733+42	LT:RT	144 ~~68~~	144 ~~72~~	R=205'	4 ~~2~~	
732+34 WB ~~732+50~~ TO WB ~~734+48~~ 734+60	RT	132 ~~117~~	72	R=205'	2	
EB 745+00 TO EB ~~747+85~~ 748+00	LT	215 ~~213~~	72	R=205'	2	
746+50 WB ~~746+20~~ TO WB ~~748+42~~ 748+00	RT	149.5 ~~150~~	72	R=205'	2	
761+25 EB ~~761+31~~ TO EB ~~762+39~~ 763+50	LT	90 ~~66~~	72	R=205'	2	
762+10 WB ~~762+27~~ TO WB ~~763+48~~ 763+50	RT	66 ~~41~~	36 ~~72~~	R=205'	2	7
RAMP C						
RC 11+00 TO RC ~~16+72~~ 17+75	RT	599 ~~600~~	72	R=205'	1	3
RAMP K						
RK 10+70 TO RK ~~12+14~~ 12+10	LT	72	72	R=205'	2	
20+30 RK ~~21+00~~ TO ~~RK 23+36~~	LT		~~236~~	R=293'	1	
~~RK 23+36~~ TO RK ~~23+77~~ 24+00	LT	16 ~~43~~	258			1
25+14 RK ~~25+34~~ TO RK 28+00	LT	260 ~~268~~				1
RK 28+00 TO RK 28+72	LT		72	R=205'	1	
RAMP L						
RL 48+15 TO RL 48+87	RT		72	R=205'	1	1
RL 48+87 TO RL 48+93	RT	16 ~~8~~				
RL 50+70 TO RL 50+76	RT	16 ~~8~~				
RL 50+76 TO RL 51+48	RT		72	R=205'	1	1
TRUMPET RAMP						
14+30 RT ~~14+50~~ TO RT ~~21+05~~ 21+23	RT	590 ~~584~~	72	R=205'	1	8
23+60 RT ~~23+71~~ TO ~~RT 26+00~~	RT	~~229~~				
~~RT 26+00~~ TO RT ~~28+50~~ 30+00	RT	224	236 ~~250~~	R=293'	1	8
RT 15+50 TO RT ~~21+15~~ 21+23	LT	569 ~~565~~			1	8
23+60 RT ~~23+00~~ TO ~~RT 26+00~~	LT	~~220~~				~~8~~
~~RT 26+00 TO RT 28+00~~	LT		~~200~~	R=358'		
~~RT 28+00~~ TO RT ~~28+72~~ 28+50	LT	217	429 ~~72~~	R=205'	1	8
SB ~~64+50~~ 66+80 TO SB ~~65+62~~ 68+15 *	RT	215	~~72~~	R=205'	2 ~~1~~ *	
68+15 SB ~~65+22~~ TO SB ~~71+54~~ * 71+00	RT	335 ~~628~~			1	8
ODW 12+00 SB ~~65+38~~ TO SB ~~71+50~~ 71+00	LT	521 ~~512~~	66		1	8
~~SB 66+38 TO ODW 11+66~~	~~RT~~		~~64~~	R=35'		
~~ODW 11+66 TO ODW 12+38~~	~~RT~~		~~72~~	R=205'	~~1~~	
71+00 SB ~~73+92~~ TO SB ~~79+28~~ * 77+78	RT	378 ~~636~~			1	8
77+78 SB ~~79+28~~ TO SB ~~80+00~~ * 82+40	RT	562	~~72~~	R=205'	2 ~~1~~ *	
74+00 SB ~~73+88~~ TO ~~SB 82+00~~ ODW 1+00	LT	1029 ~~982~~	84		1	8
ODW 1+00 ~~SB 82+00~~ TO BR ~~11+10~~ 13+90	LT	144	108 ~~100~~	R=50'	2 ~~1~~	
BR 11+00 ~~SB 84+26~~ TO SB ~~85+00~~ 86+40	LT	186 ~~64~~	156		2	
~~SB 85+00 TO SB 85+72~~	~~LT~~		~~72~~	R=205'	~~1~~	
11+25 BR ~~10+34~~ TO BR ~~10+92~~ 12+20	RT	102 ~~108~~	42 ~~58~~	R=50'	2 ~~1~~	3
~~SB 80+68 TO SB 83+66~~	~~RT~~					
TOTALS		4856 LF ~~4712 LF~~	2279 LF ~~2132 LF~~		39 EA ~~29 EA~~	81 EA ~~40 EA~~

ITEM 606.47 – GUIDE POSTS WOOD

~~BR 11+10~~	~~LT~~	~~1 EA~~ 0
~~BR 10+92~~	~~RT~~	~~1 EA~~ 0
TOTALS		~~2 EA~~ 0

CONCRETE MEDIAN BARRIER

ITEM 15606.3001 – CONCRETE MEDIAN BARRIER (TYPE A)
ITEM 15606.3101 – CONCRETE MEDIAN BARRIER END SECTION (TYPE A)
ITEM 15606.3201 – HALF SECTION CONCRETE MEDIAN BARRIER

STATION TO STATION	SIDE	15606.3001 L.F.	15606.3101 EA.	15606.3201 L.F.
RT 10+00 TO RT 10+80	MEDIAN	~~2519~~* 2106.1	1	
RT 10+80 TO RL ~~36+00~~ 35+21.09	MEDIAN		1	
RL 39+85 TO RL 40+65	LT		1	
RL 40+65 TO RL ~~48+60~~ 48+64.5	LT	~~795~~ 815.2		
RL 48+60 TO RL 49+64	LT : RT			352.09 ~~208~~
RK 24+64 TO RK 25+67	RT : LT			342.71 ~~206~~
TOTAL		~~3314~~ 2921.3	~~2~~ 3	694.8 ~~414~~

* SEE DWG. NO. CB-1 FOR LOCATION AND DETAIL OF ASYMMETRIC BARRIER

BOX BEAM MEDIAN BARRIER

ITEM 606.12 – BOX BEAM MEDIAN BARRIER L.F.
ITEM 606.13 – BOX BEAM MEDIAN BARRIER (SHOP CURVED) L.F.
ITEM 606.16 – BOX BEAM MEDIAN BARRIER END ASSEMBLY – TYPE B EA.

STATION TO STATION	SIDE	606.12 L.F.	606.13 L.F.	606.16 EA.
RK 20+50 TO RK 20+68	RT			1
RK 20+68 TO RK 23+36	RT		272 ~~260~~	
RK 23+36 TO RK 24+65	RT	144 ~~129~~		
TOTAL		144 ~~129~~	272 ~~260~~	1

CORRUGATED BEAM GUIDE RAILING

ITEM 606.20 – CORRUGATED BEAM GUIDE RAILING
ITEM 606.22 – ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING

STATION TO STATION	SIDE-DIR. OF STA.	606.20 L.F.	POST SPACING	PAYMENT FACTOR	CORRECTED LENGTH	606.22 EA.
RM 10+00 TO RM 10+25	RT					1
RM 10+25 TO RM 10+50	RT	25	12'-6"	1.0	25	
RM 10+50 TO RM 10+62.5	RT	12.5	6'-3"	1.4	18	
RM 10+62.5 TO RM 11+12.5	RT	50	4'-2"	1.6	80	
RM 11+12.5 TO RM 11+25	RT	12.5	6'-3"	1.4	18	
RM 11+25 TO RM 22+25	RT	~~1100~~ 1022.5	12'-6"	1.0	1022.5 ~~1100~~	
RM 22+25 TO RM 22+50	RT					1
14+30 RM ~~14+25~~ TO RM 14+50	LT					1
RM 14+50 TO RM 22+25	LT	~~775~~ 798.5	12'-6"	1.0	798.5 ~~775~~	
RM 22+25 TO RM ~~22+50~~ 22+55						1
TH 6083+80 TO TH 6084+05	RT					1
TH 6084+05 TO TH 6084+18	RT	~~13~~ 11	~~12'-6"~~ 6'-3"	1.0	15.4 ~~13~~	
TH 6084+18 TO TH 6085+25	RT	107	6'-3"	1.4	149.8 ~~150~~	
TH 6085+25 TO TH 6085+38	RT	13	12'-6"	1.0	13	
TH 6085+38 TO TH 6085+63	RT					1
TH 6084+10 TO TH 6084+35	LT					1
TH 6084+35 TO TH 6084+48	LT	13	12'-6"	1.0	13	
TH 6084+48 TO TH 6085+55	LT	107	6'-3"	1.4	149.8 ~~150~~	
TH 6085+55 TO TH 6085+68	LT	13	12'-6"	1.0	13	
TH 6085+68 TO TH 6085+93	LT					1
TH 6099+02 TO TH 6099+27	RT					1
TH 6099+27 TO TH 6099+40	RT	13	12'-6"	1.0	13	
TH 6099+40 TO TH 6100+53	RT	~~113~~ 104.4	6'-3"	1.4	146.2 ~~159~~	
TH 6100+53 TO TH 6100+66	RT	13	12'-6"	1.0	13	
TH 6100+66 TO TH 6100+91	RT					1
TH 6099+34 TO TH 6099+59	LT					1
TH 6099+59 TO TH 6099+72	LT	13	12'-6"	1.0	13	
TH 6099+72 TO TH 6100+85	LT	~~113~~ 104.4	6'-3"	1.4	146.2 ~~159~~	
TH 6100+85 TO TH 6100+98	LT	13	12'-6"	1.0	13	
TH 6100+98 TO TH 6101+23	LT					1
SUBTOTAL					2660.4 LF ~~2730 LF~~	12 EA

ITEM 606.72 – REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING.
ITEM 606.77 – REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MALL BARRIER.

STATION TO STATION	SIDE	606.72 L.F.	606.77 EA.
SB ~~65+80~~ 66+00 TO EXISTING STRUCTURE	LT	550 ~~570~~ LF	~~1 EA~~
SB 66+05 TO EXISTING STRUCTURE	RT	540 ~~546~~ LF	~~1 EA~~
EXISTING STRUCTURE TO SB 83+40	RT	960 LF	~~1 EA~~
EXISTING STRUCTURE TO ~~BR 11+00~~ SB 85+50	LT	1101 ~~1038~~ LF	~~1 EA~~
BR 11+00 TO ~~SB 85+40~~ BR 10+35	RT : LT	160 ~~215~~ LF	~~2 EA~~
~~BR 11+50 TO BR 12+15~~	~~RT~~	~~57~~ LF	~~2 EA~~
~~BR 11+00 TO BR 11+50~~		~~50 LF~~	
TOTAL		3351 ~~3977~~ LF	0 ~~8~~ EA

ITEM 606.62 – REMOVING AND STORING CORRUGATED BEAM GUIDE RAILING.
ITEM 606.67 – REMOVING AND STORING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MALL BARRIER.

STATION TO STATION	SIDE	606.62 L.F.	606.67 EA.
RP 45+80 TO RP 47+10	LT	130 LF	1 EA
TH 6099+63 TO 6101+45	RT	182 LF	2 EA
TH 6100+21 TO 6102+03	LT	182 LF	2 EA
RK 24+50 TO RK 25+70	RT	120 LF	1 EA
RL 48+57 TO RL 49+90	LT	134 LF	1 EA
TOTAL		748 LF	7 EA

ITEM 606.64 – REMOVING AND STORING BOX BEAM GUIDE RAILING
ITEM 606.68 – REMOVING AND STORING BOX BEAM GUIDE RAILING END ASSEMBLY.

STATION TO STATION	SIDE	606.64 L.F.	606.68 EA.
RM 32+25 TO 33+44, BR 11+80	RT	158 ~~122~~ LF	1 EA
SB 68+15, 69+20, 76+80, 77+28	RT		4 EA
TOTAL		158 ~~122~~ LF	5 ~~1~~ EA

ITEM 606.52 – RESETTING BOX BEAM GUIDE RAILING – L.F.
ITEM 606.58 – RESETTING BOX BEAM GUIDE RAILING END ASSEMBLY – EA.

STATION TO STATION	STATION TO STATION	606.52	606.58
~~SB 64+50 TO SB 65+22~~	~~SB 65+90 TO SB 66+62 RT~~	0 ~~72~~	0 ~~1~~
~~SB 65+22 TO SB 70+10~~	~~SB 66+62 TO SB 71+50 RT~~	0 ~~488~~	
~~SB 70+10 TO SB 71+50~~	~~SB 73+92 TO SB 75+32 RT~~	0 ~~140~~	
~~SB 73+92 TO SB 79+28~~	~~SB 75+32 TO SB 80+68 RT~~	0 ~~536~~	
~~SB 79+28 TO SB 80+00~~	~~SB 82+66 TO SB 83+38 RT~~	0 ~~72~~	0 ~~1~~
BR 11+80 RT			
	TOTALS	0 ~~1308~~ LF	1 ~~2~~ EA

SNOW PLOWING MARKERS

ITEM 646.0801 – SNOW PLOWING MARKER – SINGLE UNIT
ITEM 646.0802 – SNOW PLOWING MARKER – DOUBLE UNIT

ITEM 646.0801 LOCATION	SIDE	ITEM 646.0802 LOCATION	SIDE
~~EB 733+38~~ EB 733+40	LT	~~EB 732+62~~ EB 732+50	LT
~~WB 732+59~~ WB 732+35	RT	~~WB 733+76~~ WB 733+80	RT
~~EB 747+05~~ EB 733+40	~~LT~~ RT	~~EB 745+72~~ EB 732+50	~~LT~~ RT
~~WB 746+20~~ ODW 12+00	RT	~~WB 747+70~~ SB 66+00	RT
~~EB 763+39~~ ODW 0+50	LT	~~EB 762+53~~ SB 66+60	LT
~~WB 762+27~~ SB 83+40	RT	~~WB 762+58~~ ODW 1+00	RT
~~RC 16+72~~ BR 12+00	RT	~~RC 11+00~~ BR 11+30	RT
~~SB 82+66~~ BR 11+00	RT	~~SB 66+62~~ BR 12+50	~~RT~~ LT
~~SB 66+38~~	~~LT~~	SB 83+00	LT
~~ODW 12+38~~	~~RT~~	~~BR 11+18~~ SB 85+10	LT
~~BR 10+92~~	~~RT~~	~~SB 85+00~~ SB 84+50	LT
TOTALS	8 ~~11~~ EA	TOTALS	11 EA

ITEM 606.48 – REMOVING AND DISPOSING OF GUIDE POSTS, EA.

LOCATION	QUANTITY
SB 53+00 TO SB 57+40	25 EA.
TOTAL	25 EA.

ITEM 01655.10 – REMOVING AND STORING FRAMES AND GRATES, EA.

D.S. NO.	LOCATION	OFFSET
10	TH 6066+83	72' RT. ℄
11	TH 6070+77	60' LT.
12	TH 6074+57	60' LT.
13	TH 6078+24	65' LT.
17	TH 6084+41	70' LT.
20A	TH 6088+20	70' LT.
21A	TH 6092+40	70' LT.
24	TH 6096+45	70' LT.
25	TH 6101+77	70' LT.
26	TH 6101+77	70' RT.
27	TH 6105+42	70' LT.
28	TH 6105+42, 70' RT	70' RT.
TOTAL	~~12 EA.~~ 13 EA.	

REVISIONS

MISCELLANEOUS TABLES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
MT-11	NONE	7/79	REGION 1

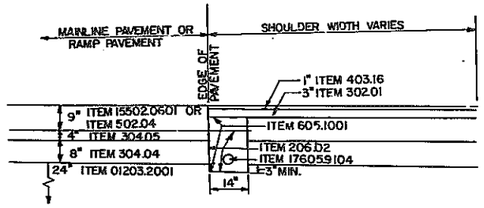
DATE ___ CHECKED BY ___ DRAFTED BY ___ CHECKED BY ___ ESTIMATED BY ___ CHECKED BY ___ DESIGNED BY ___ IN CHARGE OF ___

HC 47-2 (5/76)

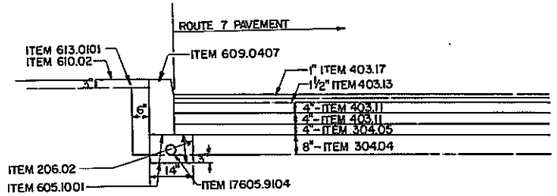
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	4921	284

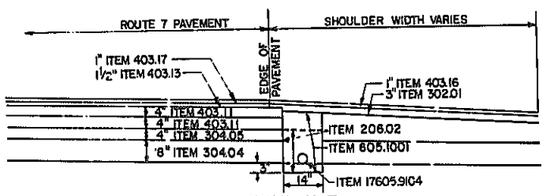
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART 1, S.H.880
SCHENECTADY COUNTY



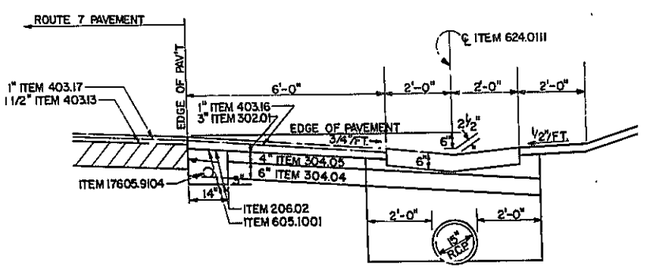
DETAIL U-1
UNDERDRAIN INSTALLATION ADJACENT TO CONCRETE PAVEMENT
SCALE ½"=1'-0"



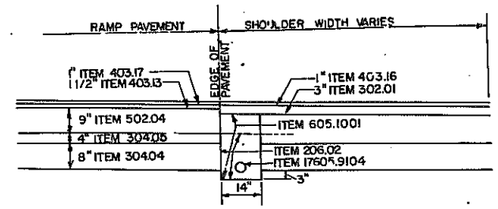
DETAIL U-2
UNDERDRAIN INSTALLATION WITH TYPE 'BB' CURB
SCALE: ½" = 1'-0"



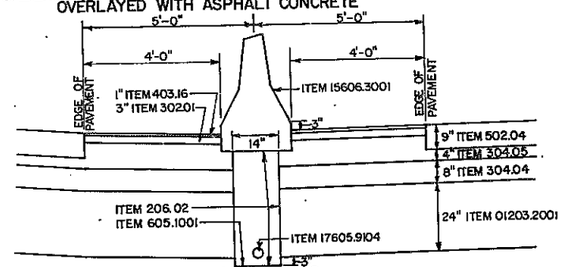
DETAIL U-3
UNDERDRAIN INSTALLATION ADJACENT TO ASPHALT CONCRETE PAVEMENT
SCALE: ½" = 1'-0"



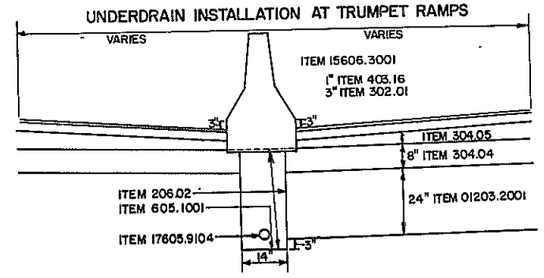
DETAIL U-4
UNDERDRAIN INSTALLATION WITH TYPE 'C' CONCRETE GUTTER
SCALE: ½" = 1'-0"



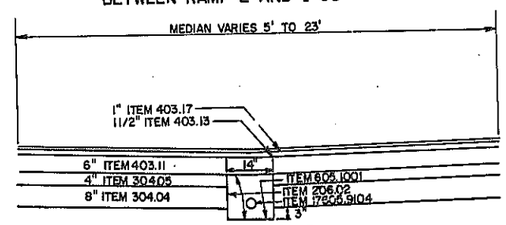
DETAIL U-5
UNDERDRAIN INSTALLATION ADJACENT TO CONCRETE PAVEMENT OVERLAYED WITH ASPHALT CONCRETE



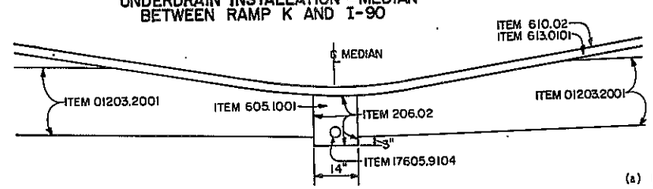
DETAIL U-6
UNDERDRAIN INSTALLATION AT TRUMPET RAMPS



DETAIL U-7
UNDERDRAIN INSTALLATION-MEDIAN BETWEEN RAMP L AND I-90



DETAIL U-8
UNDERDRAIN INSTALLATION-MEDIAN BETWEEN RAMP K AND I-90



DETAIL U-9
MEDIAN UNDERDRAIN I-88 MAINLINE

NOTES APPLICABLE TO ALL UNDERDRAIN INSTALLATION DETAILS

1. ITEM 304.05 SHALL BE PLACED TO THE GRADE OF THE BOTTOM OF THE PAVEMENT FOR MINIMUM WIDTH OF 2 FT. BEYOND THE EDGE OF PAVEMENT PRIOR TO THE EXCAVATION FOR THE UNDERDRAIN FOR INSTALLATION DETAILS U-1, U-3, AND U-5.
   ITEM 304.05 SHALL BE COMPLETED PRIOR TO THE EXCAVATION FOR THE UNDERDRAIN IN DETAILS U-2, U-4, AND U-8.
   ITEM 304.04 SHALL BE COMPLETED PRIOR TO THE EXCAVATION FOR THE UNDERDRAIN IN DETAILS U-7
   ITEM 304.05 SHALL BE COMPLETED TO THE LEVEL AT THE BOTTOM OF THE CONCRETE MEDIAN BARRIER PRIOR TO THE EXCAVATION FOR THE UNDERDRAIN IN DETAIL U-6
   ITEM 01203.2001 SHALL BE COMPLETED PRIOR TO THE EXCAVATION FOR UNDERDRAIN IN DETAIL U-9.
2. NO DEDUCTION SHALL BE MADE FOR PREVIOUSLY INSTALLED MATERIAL WHICH IS EXCAVATED FOR UNDERDRAIN INSTALLATION.
3. OUTLETS TO A DITCH OR DROP INLET SHALL BE SPACED AT APPROXIMATELY 600 FT. INTERVALS.
4. THE OUTLET AT A DITCH SHALL BE APPROXIMATELY 1 FT. ABOVE THE DITCH INVERT.
5. THE PIPE USED FOR OUTLETS SHALL NOT BE PERFORATED.
6. FOR CURB AND CONCRETE GUTTER DETAILS SEE S.S. 609-1 AND DRAWING NOS. TY-14 AND TY-15
7. THE SAME TRENCH WIDTH (14") SHALL APPLY FOR OUTLET PIPES.
8. ITEM 605.1001 UNDERDRAIN FILTER, TYPE II SHALL BE PLACED WITH THE OUTLET PIPES TO A DEPTH OF 6" OVER THE PIPE.

REVISION TABLES
ITEM # 17605.9104

ITEM 17605.9104 - CORR. POLYETHYLENE PIPE OR TUBING 4" DIAMETER					
LOCATION	SIDE DIR OF STATION	L.F.	INSTALLATION DETAIL NO.	OUTLETS TO DITCH NO.	OUTLETS TO DITCH L.F.
MAINLINE					
EB 742+00 - 750+15	LT	815	U-1	2	38 ~~52~~
EB 750+15 - 755+30	RT	515	U-1	1	34 ~~26~~
EB 758+95 - 763+88	RT	493	U-1.(c)(a)	1	30 ~~55~~
WB 742+00 - 755+40	LT	1340	U-1	3	54 ~~60~~
WB 760+30 - 763+50	LT	320	U-1 (a)(c)	1	30 ~~35~~
EB 743+00 - 746+30	MEDIAN	330	U-9	0	--
EB 747+~~75~~ 25 - 763+88	MEDIAN	463 ~~1413~~	U-9 (b)	0	--
RAMP C					
RC 11+00 - 15+50	RT	450	U-3 (a)	1	13 ~~10~~
RC 15+50 - 18+52	LT	302	U-3 (a)	1	16 ~~20~~
RC 18+52 - 23+35	LT	483	U-1 (a)	1	~~24~~
RC 20+50 - 21+50	LT	224		0	
RAMP D					
RD 11+00 - 19+83	RT	883	U-3 (a)	2	46 ~~44~~
RD 19+83 - 23+36	RT	353	U-1 (a)	1	21 ~~24~~
RAMP K					
RK 10+00 - 13+30	LT	330	U-1	1	25 ~~20~~
RK 14+00 - 17+60	RT	342 ~~360~~	U-1 (a)	1 ~~2~~	12 ~~20~~
RK 17+60 - 24+15	LT	655	U-1 (a)	2	43 ~~30~~
RK 24+15 - 25+50	RT	135	U-1	2 ~~1~~	40 ~~10~~
RK 25+50 - 28+75	RT	325	U-8	0	--
RK 28+75 - 37+65	LT	890	U-5 (a)	2	100 ~~66~~
RK 21+80 WINGWALLS	LT & RT	217 ~~40~~	—	—	—
RAMP M					
RM 10+00 - 27+50	RT	1750	U-1 (a)	3	74 ~~89~~
RM 27+50 - 40+24	RT	1274	U-5	3 ~~2~~	73 ~~26~~
RAMP L					
RL 34+51 - 50+50	RT	1599	U-1 (a)	3	36 ~~51~~
RL 50+50 - 60+90	RT	1040	U-5 (a)	2	24 ~~34~~
RL 34+51 - 36+00	LT	149	U-6	1	18 ~~30~~
RL 39+83 - ~~40+50~~ 49+10	LT	927 ~~870~~	U-7	0	--
DWRR BRIDGE	LT & RT	224		0	
RAMP P					
RP 35+65 - 42+15	LT	650	U-1 (a)	2 ~~1~~	34 ~~17~~
RP 42+15 - 51+40	LT	925	U-5 (a)	2	37 ~~34~~
TRUMPET RAMPS					
RT 10+90 - 16+83	MEDIAN	593	U-6	0	--
RT 15+00 - 20+46	RT	546	U-1 (a)	1	15
RT 16+93 - 20+46	LT	353	U-1	1	15 ~~12~~
RT 24+00 - 25+23	LT	123	U-1	1	12
RT 24+00 - 34+50	RT	1050	U-1 (a)	2	43 ~~26~~
RT 25+23 - 34+50	MEDIAN	927	U-6	0	--
TOLL PLAZA					
TP 763+88 - 775+88	RT & LT	2326 ~~2400~~	U-1 (a)(c)	6 ~~2~~	264 ~~110~~
ROUTE 7					
SB ~~44+69~~ ~~45+42~~ - 63+90	LT	2232 ~~1710~~	U-2	--	--
SB 63+72 - 64+26	RT	54	U-2	1	--
SB 63+90 - 71+26	LT	736	U-3	--	--
SB 64+25 - 71+25	RT	700	U-3	1	10 ~~20~~
SB 74+20 - 89+60	RT	1540	U-3	3	50 ~~60~~
SB 89+60 - 94+00	RT	437 ~~440~~	U-4	--	--
SB 88+74 - 94+00	LT	524 ~~526~~	U-4	--	--
	TOTAL	31,764 ~~30624~~		TOTAL	1241 ~~942~~

(a) FOR UNDERDRAIN AT LOCATIONS REQUIRING HEAVY DUTY SHOULDERS (SEE DWG. NOS. TY-5, TY-11, AND TY-12), TOP PAYMENT LINE FOR ITEM 605.1001 IS BOTTOM OF ITEM 403.11 COURSES.

(b) SEE DWG. NOS. PF-1 AND PF-2 FOR MEDIAN UNDERDRAIN ELEVATIONS FOR STA. EB 758+00 TO EB 763+00.

(c) SLOPE UNDERDRAIN TO DRAIN AS ORDERED BY THE ENGINEER WHERE PROFILE IS FLAT.

UNDERDRAIN DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
D-1	1/2"=1'-0"	3/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	50	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

DRAINAGE STRUCTURE TABLE

STR. NO.	LOCATION	DESCRIPTION
1	RC 16+85	48 LF OF 24" RCP CLASS III WITH END SECT. LT & RT
1A	EB 746+30	BUILD MEDIAN DI TYPE V WITH #22 FRAME & GRATE AND ~~72~~ 70.3 LF OF 18" RCP CLASS III, WITH END SECT. LT.
2	RD 17+82 SKEW 30° RT AH	~~68~~ 64 LF OF 24" RCP CLASS III WITH END SECT. LT & RT
3	EB 758+00	BUILD MEDIAN DI, TYPE V WITH NO. 22 FRAME & GRATE AND ~~68~~ 58.2 LF OF 24" RCP, CLASS III, WITH END SECT. RT
4	RK 12+22 SKEW 10° RT. AH.	~~174~~ 186 LF 48" CSP, 14 GA, 2-2/3" X 1/2" CORR, OR 16 GA. 3" X 1" CORR, PAVED INV., OR 48" CAP, 12 GA. CROSSING M/L WITH CSP OR CAP END SECT LT & RT. 50 LF OF LGT STONE LINED APRON AT INLET & OUTLET
5	RT 15+06	BUILD TYPE V DI WITH A NO. 22 FRAME AND GRATE AND ~~44~~ 42.17 LF OF 24" RCP CLASS III WITH END SECT. RT OUTLET TO 12'± X 18'± LGT STONE LINED APRON RT
6	RD 21+80 SKEW 60° LT. AH.	112 LF OF 5' X 10' PRECAST BOX CULVERT WITH HEADWALLS AND WINGWALLS LT & RT. 144 LF OF 6' TO 10' WIDE LGT STONE LINED DITCH AT INLET, FR. EXIST. 6' X 6' CULV. UNDER R.R., AND 75' LF OF 10' TO 12' WIDE LGT STONE LINED DITCH AT OUTLET TO DS#7.
7	RT 20+66 SKEW 15° LT AH	196 LF OF TWIN 78" CSP, 8 GA, 2 2/3" X 1/2" CORR, OR 10 GA, 3" X 1" CORR, OR 10 GA 6" X 2" CORR, PAVED INV. OR TWIN 78" CASPP .150 THK, WITH CUT-OFF WALLS AND RIP-RAP LT. & RT.
8	RM 20+65 SKEW 45° RT AH	150 LF OF TWIN 78" CSP 8 GA 2 2/3" X 1/2" CORR, OR 12 GA, 3" X 1" CORR, OR 12 GA 6" x 2" CORR, PAVED INV., OR TWIN 78" CASPP, .100 THK, WITH CUT-OFF WALLS AND RIP-RAP LT & RT. 248 LF OF 12' WIDE LGT STONE LINED DITCH, FROM DS#7 AT INLET AND 985 LF OF 12' WIDE LGT STONE LINED DITCH TO DS#9 AT OUTLET.
9	SB 70+64 SKEW 24° LT AH	240 LF OF TWIN 84" CSP, 10 GA, 3 X 1 CORR, OR 10 GA, 6" X 2" CORR.; OR 8 GA, 2 2/3" X 1/2" CORR, PAVED INV. OR TWIN 84" CASPP .175 THK, WITH CUT-OFF WALLS AND RIP-RAP LT & RT. OUTLET TO 12' WIDE LGT STONE LINED DITCH FOR 1085 LF TO EXISTING DITCH ABOVE NORMANSKILL CREEK.
9A	SB 70+30	130 LF OF 54" CSP, 10 GA, 3" X 1" CORR, OR 10 GA, 2 2/3" X 1/2" CORR, OR 54" CAP, 10 GA WITH CSP OR CAP END SECT. EXTEND INTO EXISTING 5' X 5' BOX CULVERT UNDER RTE 7. UPON COMPLETION OF NEW DRAINAGE STRUCTURE #9, REMOVE END SECTION AND 30 LF OF 54" PIPE AND PLUG REMAINING PORTION OF PIPE WITH CLASS B CONCRETE FOR STRUCTURES, ITEM 555.02. REMOVE 50+ LF OF EXISTING 5' X 5' BOX CULVERT ON SOUTH SIDE OF RTE 7 UNDER ITEM 203.02 AND PLUG REMAINING PORTION WITH CLASS B CONCRETE FOR STRUCTURES, ITEM 555.02.
10	TH [illegible] 72' RT	REMOVE EXISTING CATCH BASIN UNDER ITEM 203.02 AND BACKFILL UNDER ITEM 203.03. PLUG EXISTING 24" RCP WITH CLASS B CONC. FOR STRUCTURES UNDER ITEM 555.02.
11	TH 6070+77 60' LT	REMOVE EXISTING CATCH BASIN UNDER ITEM 203.02. EXTEND EXISTING 24" RCP WITH 16 LF OF NEW 24" RCP CLASS III. CONNECT PIPES WITH CONC. COLLAR AND INSTALL END SECT AT NEW 4' WIDE RAMP L ROADWAY DITCH.
12	TH 6074+57 60' LT	REMOVE EXISTING CATCH BASIN 60' LT UNDER ITEM 203.02. EXTEND EXISTING 24" RCP WITH 20 LF OF NEW 24" RCP CLASS III. CONNECT PIPES WITH CONC. COLLAR AND INSTALL END SECT LT AT NEW 4' WIDE RAMP L ROADWAY DITCH.
13	TH 6078+24 65' LT	REMOVE EXISTING CATCH BASIN AND 10± LF OF EXIST. 24" RCP UNDER ITEM 203.02. INSTALL NEW MEDIAN DI, TYPE H, WITH NO. 8 FRAME & GRATE. CONNECT TO EXISTING 24" RCP. INSTALL ~~48~~ 49.5 LF OF NEW 24" RCP, CLASS III, SKEW 30° RT AH, FROM NEW MEDIAN DI, WITH END SECT. AT 4' ROADWAY DITCH, RL 50+65, RT.
14	TH 6078+24 100' RT	REMOVE EXISTING HEADWALL UNDER ITEM 203.02. EXTEND EXISTING 24" RCP WITH 20 LF OF NEW 24" RCP CLASS III WITH CONC. COLLAR, AND END SECT. AT 6' LGT STONE LINED DITCH RT.
14A	TH 6078+24 60' RT	CONSTRUCT TYPE H DI WITH #8 FRAME AND GRATE 60' RT. CONNECT TO EXISTING 24" RCP.
15	RL 47+50	CONSTRUCT MEDIAN DI, TYPE B, WITH DOUBLE FRAME AND GRATE #8, 26' LT. CONNECT TO NEW 4' ROADWAY DITCH RT. WITH 36 LF OF 24" RCP CLASS III AND END SECT. RT.
16	RL 44+73	CONSTRUCT NEW MEDIAN DI, TYPE B, WITH A DOUBLE FRAME AND GRATE #8, 26' LT AND CONNECT TO RAMP L ROADWAY DITCH WITH 36 LF 24" RCP, CLASS III AND END SECT. RT.
17	TH 6084+41	REMOVE EXISTING CATCH BASIN AND 14± LF OF EXISTING 24" RCP, 70' LT. CONSTRUCT NEW MEDIAN DI, TYPE B, WITH A DOUBLE FRAME AND GRATE NO. 8, 58' LT. CONNECT TO EXIST. 24" RCP. INSTALL ~~46~~ 46.6 LF OF 24" RCP CLASS III FROM DS#16 TO DS#17.
18	RL 43+30	CONSTRUCT MEDIAN DI TYPE B WITH A DOUBLE FRAME AND GRATE #8, 26' LT. INSTALL 36 LF OF 24" RCP CLASS III FROM NEW DI TO ROADWAY DITCH AT RAMP L 43+30 WITH END SECT. RT. INSTALL ~~90~~ 88.6 LF OF 24" RCP, CLASS III FROM DI #18 TO DI #17.

DRAINAGE STRUCTURE TABLE

STR. NO.	LOCATION	DESCRIPTION
19	TH 6084+41 RT	REMOVE EXISTING HEADWALL, 100' RT AND 44 LF OF EXISTING 24" RCP. CONSTRUCT MAN HOLE, TYPE A, 56'± RT. CONNECT MAN HOLE TO EXISTING 24" RCP.
20	TH 6086+00 RT	CONSTRUCT MANHOLE, TYPE A 58 RT. CONNECT TO DS#19 WITH ~~16~~ 14.4 LF OF 24" RCP CLASS III AND ~~108~~ 104 LF OF 24" RCP, CLASS III TO 12' LGT STONE LINED DITCH WITH END SECT. RT.
20A	TH 6088+20 LT	PLUG EXISTING 24" RCP, 70' LT. WITH ITEM 555.02, CLASS B CONCRETE FOR STRUCTURES. FILL D.I. UNDER ITEM 203.03
21	TH 6092+40 RT	REMOVE EXIST. HEADWALL 125' RT AND EXTEND EXISTING 24" RCP WITH A CONC. COLLAR & 96 LF 24" RCP CLASS III AND END SECT. AT 12' LGT STONE LINED DITCH RT.
21A	TH 6092+40 LT	PLUG EXISTING 24" RCP, 70' LT. WITH ITEM 555.02, CLASS B CONCRETE FOR STRUCTURES. FILL D.I. UNDER ITEM 203.03
22	TH 6095+00	INSTALL ~~244~~ 234 LF OF 42" RCP, CLASS V, WITH END SECT. LT. & END SECT. RT AT 12' LGT STONE LINE DITCH. 150± LF OF PIPE TO BE JACKED UNDER THRUWAY UNDER ITEM 650.02.
23	RP 40+60	INSTALL ~~60~~ 56 LF OF 24" RCP, CLASS III WITH END SECT LT & RT.
24	TH 6096+45 LT	PLUG EXISTING 24" RCP, 70' LT. WITH ITEM 555.02, CLASS B CONCRETE FOR STRUCTURES. FILL D.I. UNDER ITEM 203.03
25	TH 6101+77 LT	REMOVE EXISTING CATCH BASIN 70' LT UNDER ITEM 203.02. EXTEND EXISTING 24" RCP WITH A CONC. COLLAR AND ~~20~~ 16.7 LF OF NEW 24" RCP CLASS III AND END SECT LT AT 4' WIDE ROADWAY DITCH, RP 47+13 LT.
26	TH 6101+77 RT	REMOVE EXISTING CATCH BASIN 70' RT UNDER ITEM 203.02. BUILD NEW DI TYPE H WITH NO. 8 FRAME AND GRATE, 83 RT. EXTEND EXISTING 24" RCP WITH A CONC. COLLAR AND 18 LF OF NEW 24" RCP CLASS III TO NEW DI. REMOVE 20 LF OF 24" CSP AND CONNECT TO NEW DI.
27	TH 6105+42 LT	REMOVE EXISTING CATCH BASIN, 70' LT UNDER ITEM 203.02. CONSTRUCT NEW DI TYPE H WITH A NO. 8 FRAME GRATE, 80' LT. EXTEND EXISTING 24" RCP WITH A CONC. COLLAR AND 16 LF OF NEW 24" RCP, CLASS III TO NEW DI.
28	TH 6105+42 RT	REMOVE EXISTING CATCH BASIN 70' RT UNDER ITEM 203.02. BUILD NEW DI, TYPE H, WITH NO. 8 FRAME AND GRATE, 80' RT. EXTEND EXISTING 24" RCP WITH A CONC. COLLAR AND 16 LF OF NEW 24" RCP CLASS III TO NEW DI.
29	RT 26+70 SKEW 15° LT AH	INSTALL 120 LF OF 30" RCP CLASS III WITH END SECT. LT. & RT.
30	RT 28+50	BUILD TYPE H DI WITH #8 FRAME & GRATE AND 48 LF OF 24" RCP, CLASS III, & END SECT. RT.
31	RT 31+90	BUILD TYPE H DI WITH #8 FRAME & GRATE AND 36 LF OF 24" RCP CLASS III & END SECT RT.
32	RT 34+50	BUILD TYPE H DI WITH #8 FRAME AND GRATE AND 40 LF OF 24" RCP, CLASS III, & END SECT. RT.
33	RL 37+85	INSTALL 48 LF OF 36" RCP, CLASS III WITH END SECT. LT & RT.
34	"SB" 48+65	INSTALL ~~76~~ 78 LF OF 35" x 24" C.S.P.A. PAVED INVERT, 2 2/3 x 1/2 CORR., 16 GA. OR 35" x 24" C.A.P. 2 2/3 x 1/2 CORR. 14 GA. WITH END SECTIONS LEFT AND RIGHT. BUILD TYPE 'C' CURB TYPE CATCH BASIN 24' LT.
35	"SB" 49+60	BUILD TYPE "A" CURB TYPE CATCH BASIN 24' LT AND CONNECT TO CATCH BASIN AT 'SB' 50+40 24' LT WITH 78 L.F. OF 12" R.C.P. CLASS III.
36	"SB" 50+40	BUILD TYPE "A" CURB TYPE CATCH BASIN 24' LT AND CONNECT TO CATCH BASIN AT 'SB' 52+74 24' LT WITH ~~234~~ 229 L.F. OF 12" R.C.P. CLASS III.
37	"SB" 52+85	INSTALL 92 L.F. OF 30" R.C.P. CLASS III, SKEWED 28° RIGHT AHEAD WITH END SECTIONS LEFT AND RIGHT. BUILD TYPE "C" CURB TYPE CATCH BASIN 24' LT.
38	"SB" 53+15	REMOVE EXISTING 2'x3' BOX CULVERT.
39	"SB" 54+15	BUILD TYPE 'A' CURB TYPE CATCH BASIN 24' LEFT AND CONNECT TO CATCH BASIN AT 'SB' 55+70 24' LT WITH ~~154~~ 158 L.F. OF 12" R.C.P. CLASS III.
40	"SB" 55+70	BUILD TYPE 'A' CURB TYPE CATCH BASIN 24' LEFT AND CONNECT TO CATCH BASIN AT "SB" 57+20, 24' LT WITH ~~150~~ 147 L.F. OF 12" RCP CLASS III.
41	"SB" 57+20	BUILD TYPE D, CURB TYPE CATCH BASIN, 24' LT AND CONNECT TO CATCH BASIN AT SB 58+00, 24' LT, WITH ~~80~~ 76 LF OF 24" RCP CLASS III.
42	"SB" 58+00	BUILD TYPE "D" CURB TYPE CATCH BASIN 24' LEFT AND CONNECT TO CATCH BASIN AT "SB" 58+81, 24' LT WITH ~~80~~ 77 L.F. OF 24" R.C.P. CLASS III.
43	"SB" 58+81	BUILD TYPE "D" CURB TYPE CATCH BASIN 24' LEFT AND CONNECT TO CATCH BASIN AT "SB" 59+55 24' LT WITH ~~84~~ 80 LF OF 24" R.C.P. CLASS III.
44	"SB" 59+65	BUILD TYPE 'D' CURB TYPE CATCH BASIN 24' LEFT AND CONNECT TO CATCH BASIN AT "SB" 60+40 WITH ~~74~~ 72 L.F. OF 24" R.C.P. CLASS III.

DRAINAGE STRUCTURE TABLE

STR. NO.	LOCATION	DESCRIPTION
45	"SB" 60+40	BUILD TYPE 'E' CURB TYPE CATCH BASIN 24' LEFT AND CONNECT TO CATCH BASIN AT "SB" 61+88, 24' LEFT WITH 144 L.F. OF 27" R.C.P. CLASS III.
46	"SB" 61+88	BUILD TYPE 'E' CURB TYPE CATCH BASIN 24' LEFT AND CONNECT TO DROP INLET AT "SB" 61+92, 38' LEFT WITH ~~14~~ 12 L.F. OF 27" R.C.P. CLASS III.
47	"SB" 58+40, 38' LT.	BUILD TYPE 'A' DROP INLET 38' LEFT AND CONNECT TO DROP INLET AT "SB" 59+12, 38' LEFT WITH ~~72~~ 70 L.F. OF 12" R.C.P. CLASS III.
48	"SB" 59+12, 38' LT.	BUILD TYPE 'A' DROP INLET 38' LEFT AND CONNECT TO DROP INLET AT "SB" 60+50, 38' LEFT WITH ~~138~~ 135 L.F. OF 12" R.C.P. CLASS III.
49	"SB" 60+50, 38' LT.	BUILD TYPE 'A' DROP INLET 38' LEFT AND CONNECT TO DROP INLET AT "SB" 61+92 34' LEFT WITH ~~134~~ 136 L.F. OF 12" R.C.P. CLASS III.
50	"SB" 61+92, 38' LT.	BUILD TYPE 'AA' DROP INLET 34' LEFT AND CONNECT TO DROP INLET AT "SB" 63+54, 45' LT WITH ~~162~~ 157 LF OF 27" R.C.P. CLASS III.
51	"SB" 63+54, 45' LT.	BUILD TYPE 'AA' DROP INLET 45' LT AND CONNECT TO DROP INLET AT "SB" 66+05 68' LT WITH ~~239~~ 240 L.F. OF 27" R.C.P. CLASS III.
52	"SB" 65+95, 68' LT	BUILD TYPE 'AA' DROP INLET, 68' LT AND OUTLET WITH ~~250~~ 243.5 LF OF 30" RCP CLASS III WITH RCP END SECT INTO 4' BOTTOM LIGHT STONE LINED DITCH AT "SB" 68+40±, 92' LT.
53	"BR" 10+60	INSTALL ~~64~~ 68 L.F. OF 24" R.C.P. CLASS III WITH END SECTIONS LEFT AND RIGHT. REMOVE EXISTING 24" R.C.P.
54	"SB" 85+60	INSTALL 7? L.F. OF 35"x24" C.S.P.A., PAVED INVERT, 2 2/3 x 1/2 CORR., 16 GA. OR 35"x24" C.A.P.A. 2 2/3 x 1/2 CORR., 14 GA. WITH END SECTIONS LEFT AND RIGHT.
55	"SB" 85+72	REMOVE EXISTING 24" R.C.P. AND DROP INLET.
56	"SB" 88+70	INSTALL ~~70~~ 66 LF OF 28"x20" CSPA, PAVED INVERT, 2 2/3" x 1/2" CORR., 16 GA OR 28"x20" CAPA, 14 GA WITH TYPE 'C' DROP INLET, 35' LT AND CSPA END SECT. RT.
57	"SB" 89+62	INSTALL 62 L.F. OF 15" R.C.P. CLASS III AND CONNECT TO TYPE 'C' GUTTER TYPE DROP INLET AT "SB" 89+62, 21' RT.
58	"SB" 90+73	BUILD TYPE 'C' GUTTER TYPE DROP INLET 18' RT. AND CONNECT TO DROP INLET AT "SB" 89+62 WITH ~~110~~ 107 L.F. OF 15" R.C.P. CLASS III.
59	"SB" 94+04 RT	BUILD TYPE 'C' GUTTER TYPE DROP INLET 18' RT. AND CONNECT TO DROP INLET AT "SB" 90+73 WITH 325 LF OF 15" R.C.P. CLASS III.
60	"SB" 94+04 LT	BUILD TYPE 'C' GUTTER TYPE DROP INLET 18' LT. AND CONNECT TO DROP INLET AT "SB" 94+04, 18' RT WITH ~~34~~ 36 LF OF 15" R.C.P. CLASS III.
61	"RL" 10+40	REMOVE EXISTING 10" C.I.P. AND DROP INLETS LT & RT. PLACE ~~20~~ 2.1 L.F. OF 15" R.C.P. CLASS III FROM D.I. AT "SB" 94+04, 18' LT. TO NEW TYPE 'H' D.I. AT "RL" 10+40, 15' LT. CONNECT TYPE 'H' D.I. AT "RL" 10+40, 15' RT. WITH ~~30~~ 27.5 L.F. OF 15" R.C.P CLASS III.
62	"RL" 13+62	CONSTRUCT NEW TYPE 'H' D.I. AT "RL" 13+62, 13' RT. AND CONNECT TO D.I. AT "RL" 10+40, 15' RT. WITH ~~320~~ 317 L.F. OF 15" R.C.P. CLASS III. REMOVE EXISTING D.I. AT "RL" 13+62, 15' RT.
*		

* NOTE: FOR REMAINDER OF DRAINAGE STRUCTURE TABLE SEE SHEET # 42.

NOTE: ALL ALUMINUM PIPE SURFACES, WHEN ALUMINUM HAS BEEN CHOSEN, SHALL BE COATED WITH ZINC CHROMATE WHERE IN CONTACT WITH CONCRETE. THE ZINC CHROMATE COATING SHALL BE IN COMPLIANCE WITH MATERIALS SPECIFICATION 708-04 AND ALL COATING COSTS SHALL BE INCLUDED IN THE COST BID FOR THE APPROPRIATE ITEM.

REVISIONS

DRAINAGE STRUCTURE TABLE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
D-2	N/A	6/79	REGION I

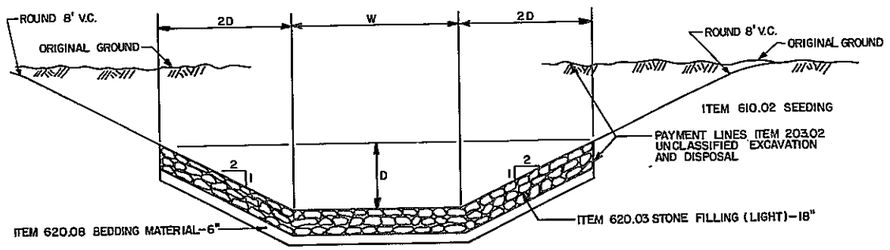
DATE — CHECKED BY — DRAFTED BY — CHECKED BY — ESTIMATED BY — CHECKED BY — DESIGNED BY — IN CHARGE OF

HC 47-2 (5/76)

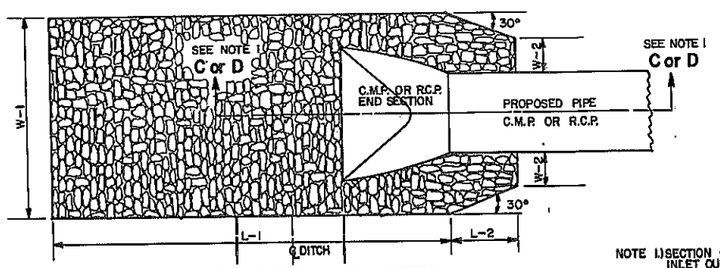
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	5121	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY,
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

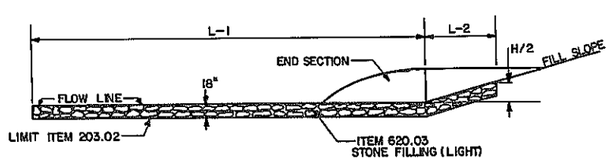


TYPICAL STONE LINED DRAINAGE DITCH

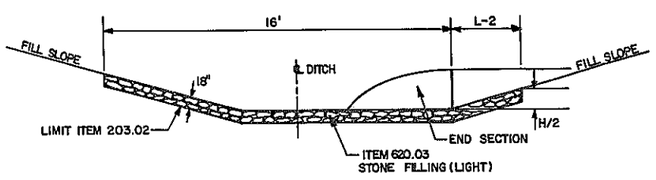


LIGHT STONE LINED APRON DETAIL
INLET AND / OR OUTLET

NOTE 1) SECTION C-C IS TO BE USED WHEN THE INLET OUTLET IS IN A ROADSIDE DITCH. SECTION D-D IS TO BE USED WHEN THE INLET OUTLET IS NOT IN A ROADSIDE DITCH.



SECTION C-C



SECTION D-D

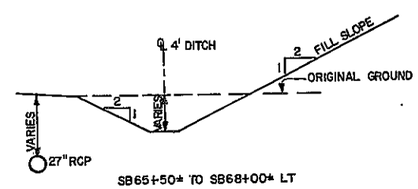
STONE LINED DITCHES

LOCATION		PIPE END TREATMENT	DIMENSIONS				REMARKS
STATION	NO.-INLET/OUTLET		DEPTH (D)	(2b)	WIDTH (W)	LENGTH (L)	
SB 52+85	DS#37-INLET	END SECT	2'-6"	5'	4'	27' ~~50'~~	LGT. STONE DITCH
N. OF D&H.RR.	— INLET EXIST. 6X6 CULV.	HEADWALL	4'	8'	6'	800' ~~880'~~	LGT. STONE DITCH
R.R. TO RK21+80	DS#6 INLET	CUT-OFF WALL & RIP RAP	4'	8'	6' TO 10'	144'	48'@ 6', 48' TRANSITION & 48' @ 10' LGT. STONE DITCH
RK21+80 TO RT 20+66	DS#6 OUTLET TO DS# 7 INLET	CUT-OFF WALL & RIP RAP	4'	8'	10' TO 12'	75'	25'@10', 25' TRANSITION, & 25'@ 12' LGT. STONE DITCH
RT 20+66 TO RM 20+65	DS#7 OUTLET TO DS#8 INLET	CUT-OFF WALL & RIP RAP	4'	8'	12'	248'	LGT. STONE DITCH
RM 20+65 TO SB70+64	DS# 8 OUTLET TO DS# 9 INLET	CUT-OFF WALL & RIP RAP	4'	8'	12'	985'	LGT. STONE DITCH.
SB70+64	DS#9 OUTLET TO EXIST. STREAM	CUT-OFF WALL & RIP RAP	4'	8'	12'	1085'	LGT. STONE DITCH
TH6088+20 RT.	OUTLET DITCH TO NEW 12' WIDE DITCH	EXISTING HEADWALL	2'-6"	5'	4'	85'	LGT. STONE DITCH
TH6096+45 RT.	OUTLET DITCH TO NEW 12' WIDE DITCH	EXISTING HEADWALL	2'-6"	5'	4'	24' ~~32'~~	LGT. STONE DITCH
SB 68+40 LT.	DS#52 OUTLET	END SECT.	2'-6"	5'	4'	270' ~~250'~~	LGT. STONE DITCH
SB 66+65 RT.	—	—	4'	8'	6'	355' ~~340'~~	LGT. STONE DITCH

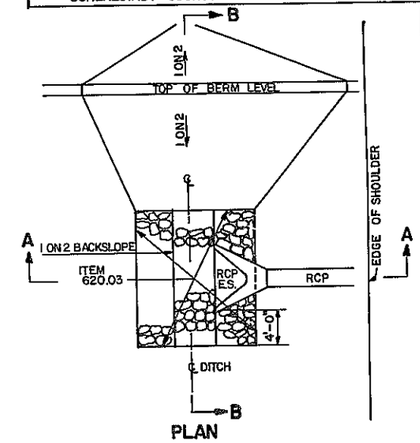
STONE LINED APRONS

LOCATION		PIPE END TREATMENT	DIMENSIONS: SEE LEGEND					REMARKS
STATION	NO.-INLET/OUTLET		L-1	L-2	W-1	W-2	H/2	
RK 12+22	DS#4 INLET & OUTLET	END SECT.	46'	4'	14'	4'	2'	LGT. STONE APRON
RT 15+06	DS#5 OUTLET	END SECT.	16'	2'	12'	2'	1'	LGT. STONE APRON
SB 48+65	DS#34 INLET & OUTLET	END SECT.	16'	4'	12'	3'	1'	LGT. STONE APRON
SB 52+85	DS #37 OUTLET	END SECT.	15'	6'	12'	2'-6"	1'-3'	LGT. STONE APRON
~~SB 19+90~~	~~DS#53 OUTLET~~	~~END SECT.~~	~~46'~~	~~2'~~	~~14'~~	~~2'~~	~~2'~~	~~LGT. STONE APRON~~
~~SB 85+00~~	~~DS#54 INLET & OUTLET~~	~~END SECT.~~	~~16'~~	~~4'~~	~~20'~~	~~3'~~	~~1'~~	~~LGT. STONE APRON~~
~~SB 88+70~~	~~DS#56 OUTLET~~	~~END SECT.~~	~~16'~~	~~4'~~	~~12'~~	~~2'~~	~~1'~~	~~LGT. STONE APRON~~
~~SB 89+62~~	~~DS#57 INLET~~	~~END SECT.~~	~~46'~~	~~4'~~	~~14'~~	~~1'~~	~~1'~~	~~LGT. STONE APRON~~

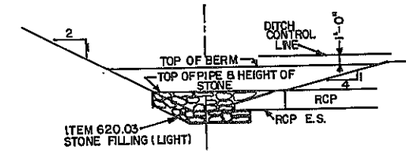
L-1 = LENGTH OF APRON FROM END OF PIPE, NOT INCLUDING END SECTION.
L-2 = HORIZONTAL LENGTH OF STONE LAYING ON SLOPE.
W-1 = WIDTH OF APRON
W-2 = DIAMETER SPAN OF PIPE
H/2 = 1/2 DIAMETER OR 1/2 RISE OF PIPE



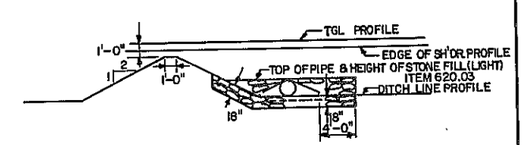
SB65+50* TO SB68+00* LT



PLAN



SECTION A-A



SECTION B-B

TYPICAL DITCH LINE DIVERSION BERM

STA. TH 6070+77 LT - DS # 11
STA. TH 6074+57 LT. - DS # 12
STA. RL 37+85 RT - DS # 33

REVISIONS

STONE LINED DITCH DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

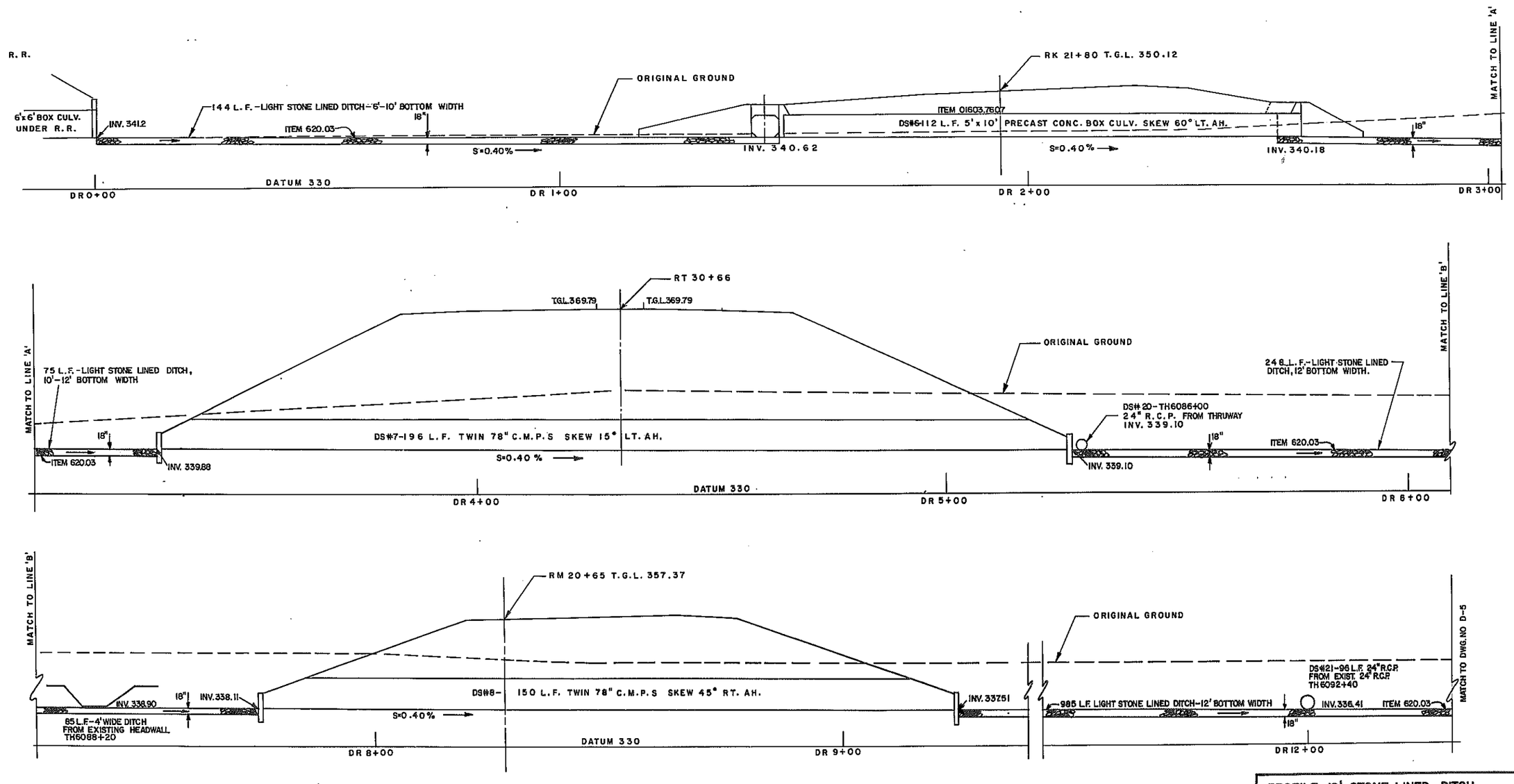
DRAWING No.	SCALE	DATE	REGION
D-3	NONE	4/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	52	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY,
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



PROFILE - 12' STONE LINED DITCH

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

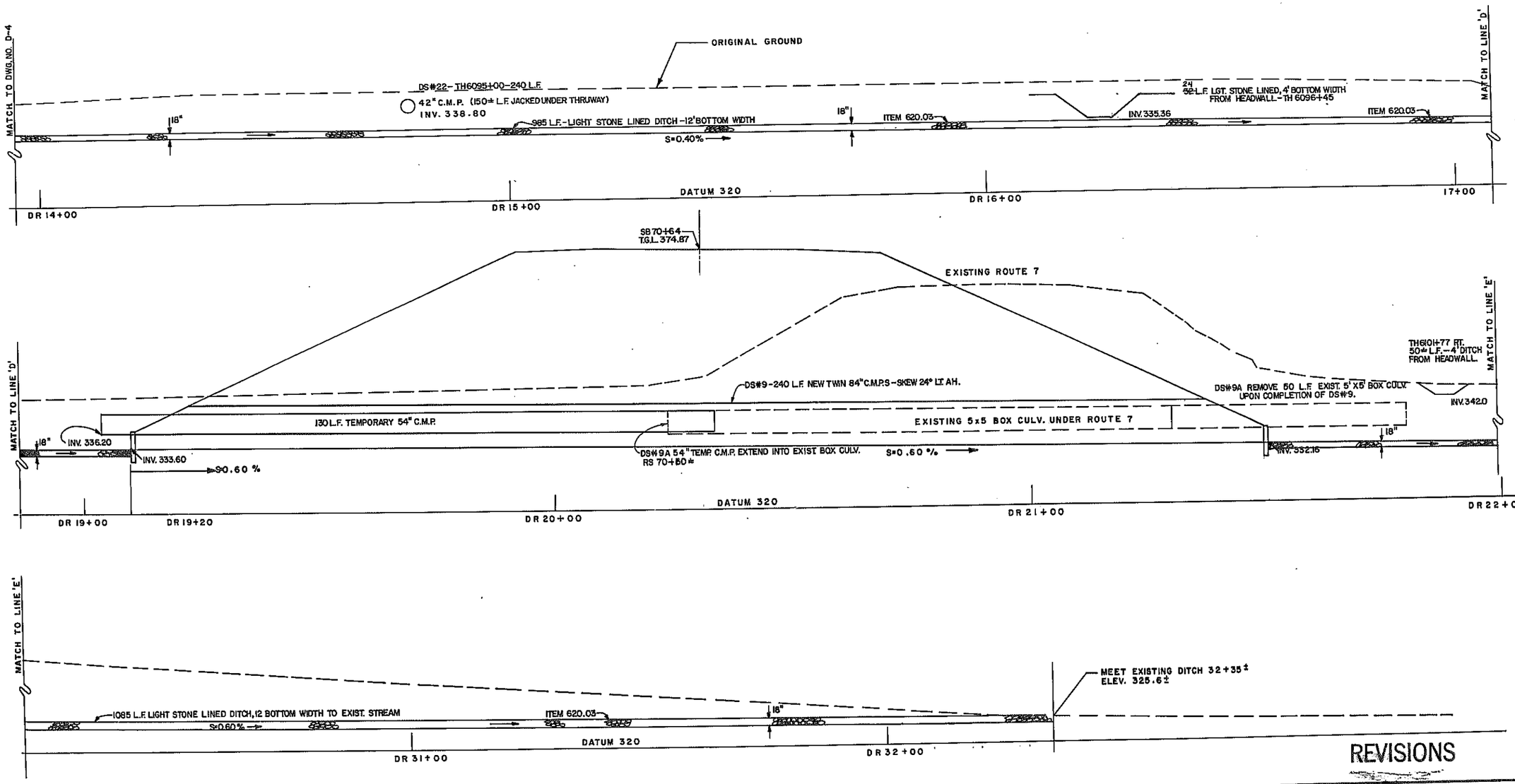
DRAWING No.	SCALE	DATE	REGION
D-4	1"=10'	4/79	REGION I

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
RC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	53A1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



REVISIONS

PROFILE-12' STONE LINED DITCH

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

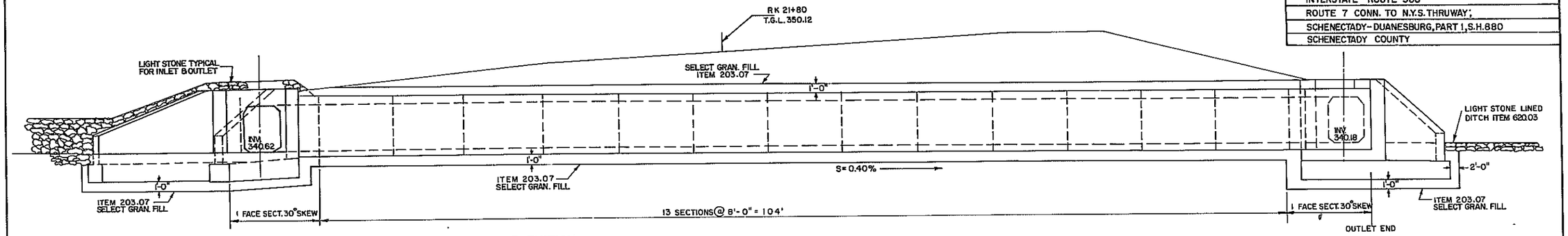
DRAWING No.	SCALE	DATE	
D-8	1"=10'	4/79	REGION I

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

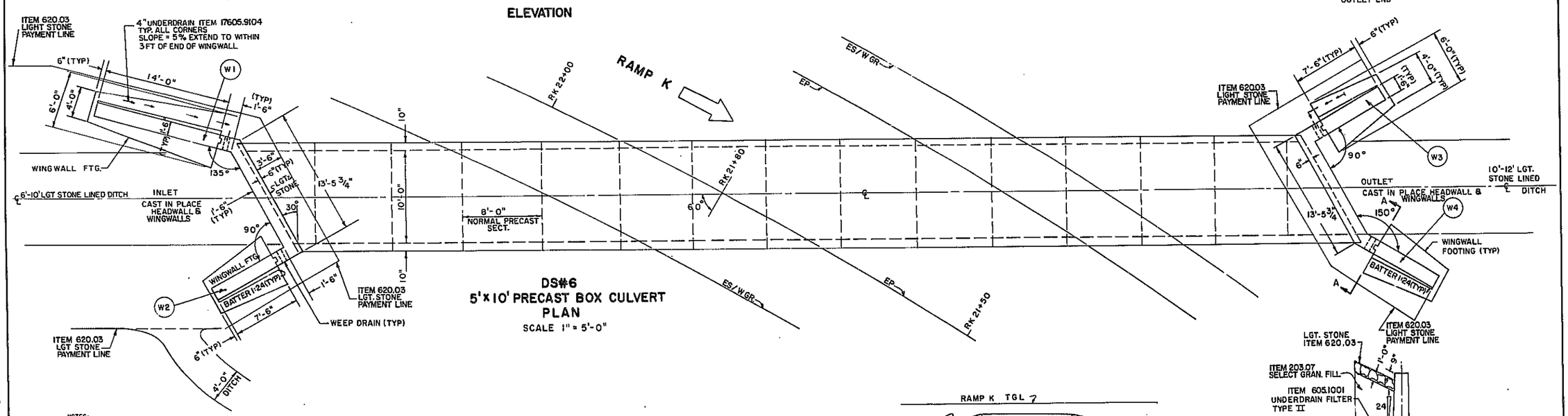
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	54	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



ELEVATION



DS#6
5'x10' PRECAST BOX CULVERT
PLAN
SCALE 1" = 5'-0"

NOTES:

WINGWALLS

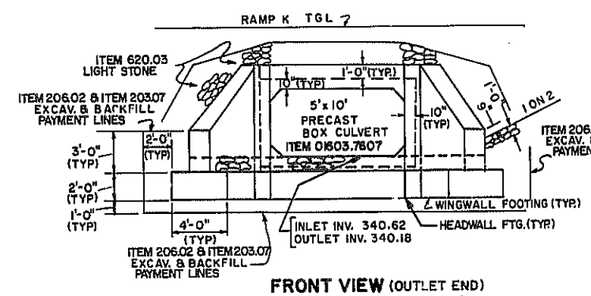
DESIGN OF WINGWALLS HAS OBTAINED FROM NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD RETAINING WALL DETAILS AS FOLLOWS:

- LEVEL SURCHARGE 1T/FT^2 MAXIMUM FOOTING PRESSURE AND 0.5 COEFFICIENT OF SLIDING FRICTION.
- REINFORCING BAR COVER SHALL BE 3" MINIMUM.
- SPLICES IN REINFORCING BARS SHALL HAVE A MINIMUM OVERLAP OF 24 BAR DIAMETERS.
- KEYWAYS SHALL BE USED IN ALL CONSTRUCTION, CONTRACTION AND EXPANSION JOINTS: AND SHALL TERMINATE 1 FOOT FROM THE END OF THE JOINT. THE SIDES OF THE KEYWAYS SHALL BE TAPERED. THE KEYWAY DIMENSIONS SHALL BE APPROX. 1/3 THE WIDTH OF THE JOINT WIDTH, AND 1/6 THE WIDTH OF THE JOINT IN DEPTH. NOMINALLY SIZED LUMBER MAY BE USED IN THE CONSTRUCTION OF KEYWAYS.
- TYPE D POLYVINYL CHLORIDE WATERSTOPS SHALL BE USED TO SEAL ALL CONSTRUCTION AND CONTRACTION JOINTS LOCATED ABOVE THE TOP OF THE FOOTING. WHERE TYPE D WATER STOPS CANNOT BE USED, DUE TO CONFIGURATION OF THE JOINT, TYPE A OR TYPE CA MAY BE USED AS APPROPRIATE.
- WITH APPROVAL OF THE ENGINEER, CONSTRUCTION JOINTS WILL BE ALLOWED AT LOCATIONS OTHER THAN THOSE SHOWN ON THE PLANS.

- PLACEMENT OF BACKFILL BEHIND THE WINGWALLS MAY COMMENCE AFTER THE COMPRESSIVE STRENGTH OF THE CONCRETE IN THE WINGWALL HAS REACHED 2,500 PSI.
- MATERIAL PLACED AGAINST THE REAR FACE OF THE WINGWALLS SHALL EXTEND TO WITHIN 9" MINIMUM, OF THE TOP OF THE WALL
- CONCRETE AND REINFORCING BARS USED IN HEADWALLS AND WINGWALLS SHALL MEET THE REQUIREMENTS OF AND BE PAID FOR, UNDER ITEMS 555.01-CONCRETE FOR STRUCTURES, CLASS A, AND 556.0201 - UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES, RESPECTIVELY.

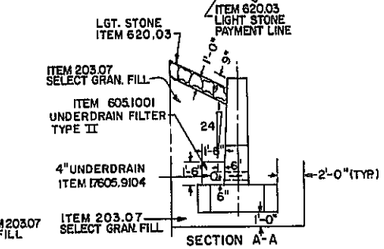
PRECAST BOX CULVERT

END SECTIONS SHALL BE PROVIDED WITH REINFORCEMENT EXTENDING A MINIMUM OF 18" BEYOND THE END OF THE UNIT. THIS REINFORCEMENT MAY BE PROVIDED BY PROTRUDING LONGITUDINAL REINFORCEMENT, BY PLACING DOWELS, OR A COMBINATION OF THE TWO METHODS. DOWELS, IF USED, SHALL BE EMBEDDED 30 BAR DIAMETERS. THE AREA OF EXPOSED REINFORCEMENT SHALL BE 0.21 in^2 TIMES THE PERIMETER DISTANCE OF THE UNIT IN FEET. EXPOSED REINFORCEMENT SHALL BE #4 OR #5 BARS, OR A COMBINATION OF THE TWO: AND SHALL BE EQUALLY SPACED AROUND THE FULL PERIMETER OF THE UNIT. THE COST OF EXPOSED REINFORCEMENT SHALL BE INCLUDED IN THE PRICE BID FOR THE PRECAST CONCRETE BOX ITEMS.
ALL END SECTIONS AND JOINTS SHALL BE DETAILED ON THE SHOP DRAWINGS SUBMITTED TO THE DEPARTMENT FOR APPROVAL.



FRONT VIEW (OUTLET END)
(INLET END VIEW SIMILAR)
SCALE 1" = 5'-0"

NOTE: FOR WINGWALL DETAILS SEE DWG. NO. D-7, D-8.



DS # 6 RK 21+80

PRECAST CONCRETE BOX CULV.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

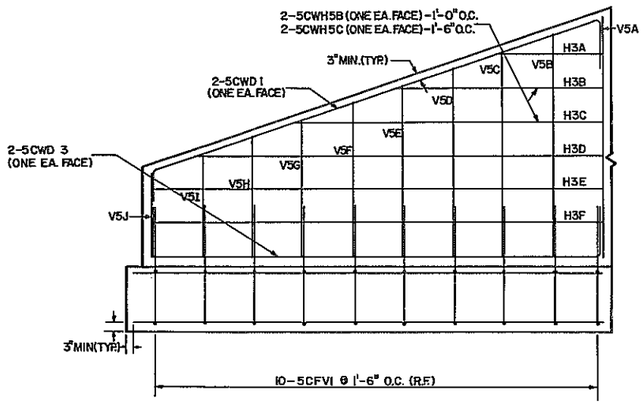
DRAWING No.	SCALE	DATE	REGION
D-6	1" = 5'-0"	1/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

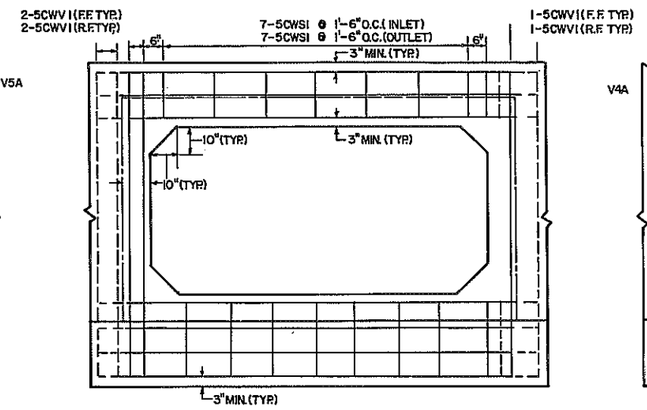
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	55	284

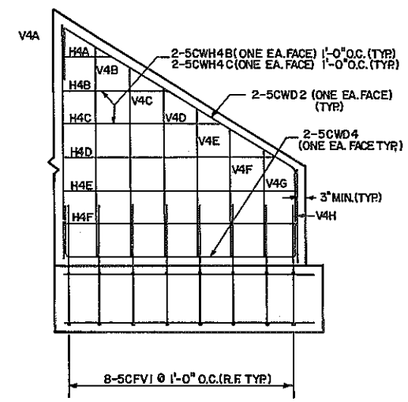
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



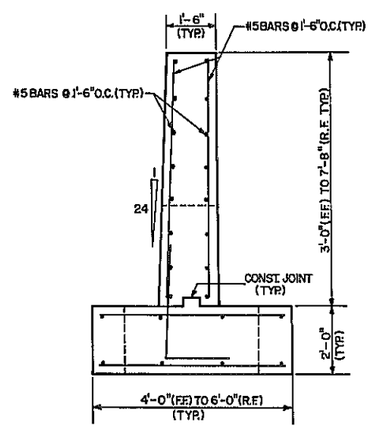
INLET-LT. WINGWALL ELEVATION
(W1)



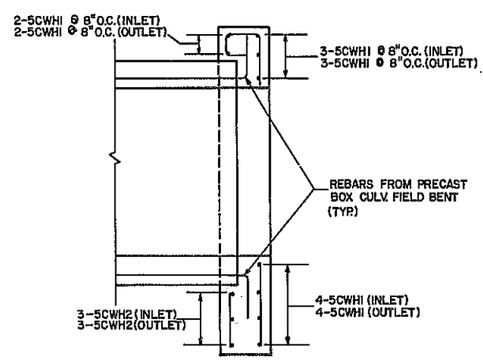
HEADWALL ELEVATION
(TYPICAL)



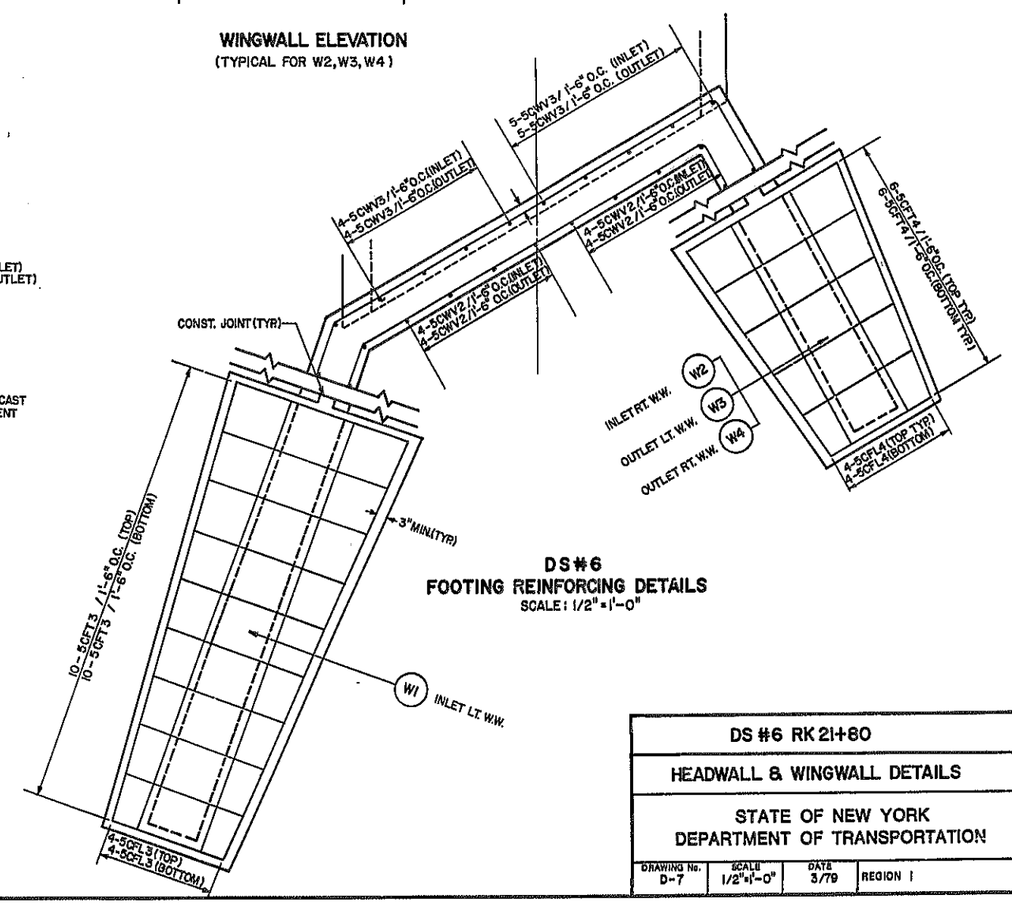
WINGWALL ELEVATION
(TYPICAL FOR W2, W3, W4)



WINGWALL SECTION
(TYPICAL)



HEADWALL REINFORCED SECTION
(TYPICAL INLET & OUTLET)



DS #6
FOOTING REINFORCING DETAILS
SCALE: 1/2" = 1'-0"

DS #6 RK 21+80

HEADWALL & WINGWALL DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
D-7	1/2" = 1'-0"	3/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	562	284

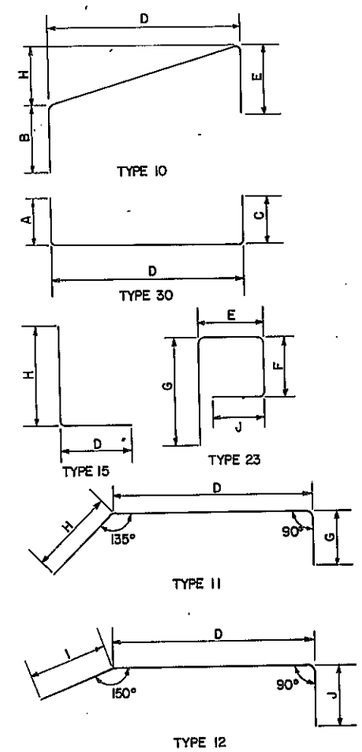
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

DS #6 INLET-CAST IN PLACE HEADWALL & WINGWALLS

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	I	J	WEIGHT
INLET WINGWALL FOOTING - W1															
5CFT3	5	20	4'-6"(AVG)	STR	VARIES		3'-6"	TO 5'-6"							93.87
5CFL3	5	8	13'-6"	STR											112.64
5CFV1	5	10	5'-6"	15				2'-0"				3'-6"			57.37
	7	8	2'-0"	STR.								SUBTOTAL			263.88
INLET WINGWALL FOOTING - W2															32.71
5CFT4	5	12	4'-6"(AVG)	STR	VARIES		3'-6"	TO 5'-6"							56.32
5CFL4	5	8	7'-6"	STR											62.58
5CFV1	5	8	5'-6"	15				2'-0"				3'-6"			45.89
	7	8	2'-0"	STR.								SUBTOTAL			164.79
INLET HEADWALL															16.35
5CWS1	5	7	3'-10"	23					1'-0"	0'-8"	1'-6"			0'-8"	27.99
5CWH1	5	7	14'-6"	11				11'-9"			1'-6"	1'-3"			105.86
5CWH2	5	7	17'-6"	11				13'-3"			2'-6"	1'-9"			128.50
5CWV1	5	6	9'-2"	STR											57.37
5CWV2	5	8	2'-4"	STR											19.47
5CWV3	5	9	1'-6"	STR											14.08
												SUBTOTAL			353.27
INLET WINGWALL ELEVATION-W1															
5CWD1	5	2	16'-6"	10		1'-0"		13'-4"	1'-6"			4'-6"			34.42
5CWD3	5	2	16'-4"	30											34.07
5CWH3A	5	2	3'-3"	STR											6.78
5CWH3B	5	2	6'-3"	STR											13.04
5CWH3C	5	2	9'-3"	STR											19.30
5CWH3D	5	2	12'-3"	STR											25.55
5CWH3E	5	4	13'-6"	STR											28.16
5CWV5A	5	2	7'-2"	STR											14.95
5CWV5B	5	2	6'-8"	STR											13.91
5CWV5C	5	2	6'-2"	STR											12.86
5CWV5D	5	2	5'-8"	STR											11.82
5CWV5E	5	2	5'-2"	STR											10.78
5CWV5F	5	2	4'-8"	STR											9.73
5CWV5G	5	2	4'-2"	STR											8.69
5CWV5H	5	2	3'-8"	STR											7.65
5CWV5I	5	2	3'-2"	STR											6.61
5CWV5J	5	2	2'-8"	STR											5.56
												SUBTOTAL			263.88
INLET WINGWALL ELEVATION-W2															
5CWD2	5	2	11'-0"	10											22.95
5CWD4	5	2	9'-4"	30											19.47
5CWH4A	5	2	1'-6"	STR											3.13
5CWH4B	5	2	3'-2"	STR											6.61
5CWH4C	5	2	4'-9"	STR											9.91
5CWH4D	5	2	6'-4"	STR											13.21
5CWH4E	5	2	7'-0"	STR											14.60
5CWV4A	5	2	7'-0"	STR											14.60
5CWV4B	5	2	6'-4"	STR											13.21
5CWV4C	5	2	5'-8"	STR											11.82
5CWV4D	5	2	5'-0"	STR											10.43
5CWV4E	5	2	4'-6"	STR											9.39
5CWV4F	5	2	3'-10"	STR											8.00
5CWV4G	5	2	3'-2"	STR											6.61
5CWV4H	5	2	2'-8"	STR											5.56
												SUBTOTAL			169.50
TOTAL INLET															~~1215.52~~ 1247.86

DS #6 OUTLET-CAST IN PLACE HEADWALL & WINGWALLS

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	H	I	J	WEIGHT
OUTLET WINGWALL FOOTING - W3															
5CFT4	5	12	4'-6"(AVG)	STR	VARIES		3'-6"	TO 5'-6"							56.32
5CFL4	5	8	7'-6"	STR											62.58
5CFV4	5	8	5'-6"	15				2'-0"				3'-6"			45.89
												SUBTOTAL			164.79
OUTLET WINGWALL FOOTING - W4															
5CFT4	5	12	4'-6"(AVG)	STR	VARIES		3'-6"	TO 5'-6"							56.32
5CFL4	5	8	7'-6"	STR											62.58
5CFV1	5	8	5'-6"	15				2'-0"				3'-6"			45.89
												SUBTOTAL			164.79
OUTLET HEADWALL															
5CWS1	5	7	3'-10"	23					1'-0"	0'-8"	1'-6"			0'-8"	27.99
5CWH1	5	6	14'-6"	12				11'-9"					1'-3"	1'-6"	90.74
5CWH2	5	7	17'-6"	12				13'-3"					1'-9"	2'-6"	128.50
5CWV1	5	6	9'-2"	STR											57.37
5CWV2	5	8	2'-4"	STR											19.47
5CWV3	5	9	1'-6"	STR											14.08
												SUBTOTAL			338.15
OUTLET WINGWALL ELEVATION-W3															
5CWD2	5	2	11'-0"	10		1'-6"		6'-10"	1'-6"		-	4'-3"			22.95
5CWD4	5	2	9'-4"	30	1'-6"		1'-0"	6'-10"							19.47
5CWH4A	5	2	1'-6"	STR											3.13
5CWH4B	5	2	3'-2"	STR											6.61
5CWH4C	5	2	4'-9"	STR											9.91
5CWH4D	5	2	6'-4"	STR											13.21
5CWH4E	5	2	7'-0"	STR											14.60
5CWV4A	5	2	7'-0"	STR											14.60
5CWV4B	5	2	6'-4"	STR											13.21
5CWV4C	5	2	5'-8"	STR											11.82
5CWV4D	5	2	5'-0"	STR											10.43
5CWV4E	5	2	4'-6"	STR											9.39
5CWV4F	5	2	3'-10"	STR											8.00
5CWV4G	5	2	3'-2"	STR											6.61
5CWV4H	5	2	2'-8"	STR											5.56
												SUBTOTAL			169.50
OUTLET WINGWALL ELEVATION-W4															
5CWD2	5	2	11'-0"	10		1'-6"		6'-10"	1'-6"			4'-3"			22.95
5CWD4	5	2	9'-4"	30	1'-6"		1'-0"								19.47
5CWH4A	5	2	1'-6"	STR											3.13
5CWH4B	5	2	3'-2"	STR											6.61
5CWH4C	5	2	4'-9"	STR											9.91
5CWH4D	5	2	6'-4"	STR											13.21
5CWH4E	5	2	7'-0"	STR											14.60
5CWV4A	5	2	7'-0"	STR											14.60
5CWV4B	5	2	6'-4"	STR											13.21
5CWV4C	5	2	5'-8"	STR											11.82
5CWV4D	5	2	5'-0"	STR											10.43
5CWV4E	5	2	4'-6"	STR											9.39
5CWV4F	5	2	3'-10"	STR											8.00
5CWV4G	5	2	3'-2"	STR											6.61
5CWV4H	5	2	2'-8"	STR											5.56
												SUBTOTAL			169.50
TOTAL OUTLET															1006.73
TOTAL INLET & OUTLET															~~2222.25~~ 2254.59



REVISIONS

BAR LIST DS#6

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

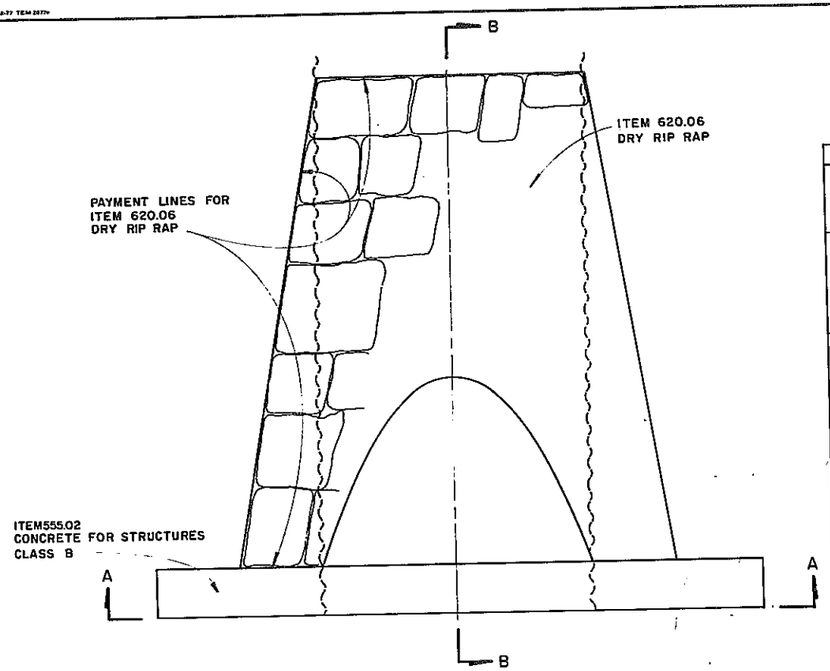
DRAWING No.	SCALE	DATE	REGION
D-8	NONE	3/79	REGION 1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	57.01	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



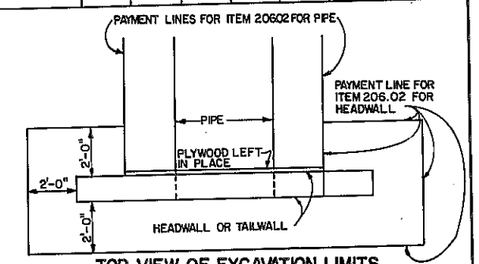
PLAN OF HEADWALL WITH C.S.P.A.

HEADWALL TABLE

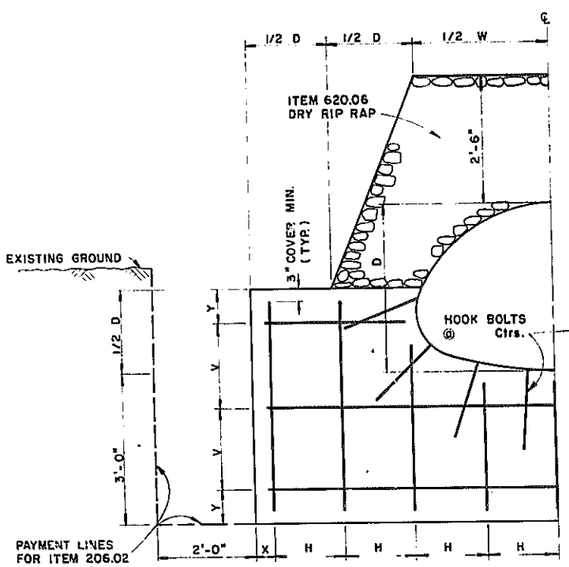
PIPE SIZE	NO.	LOCATION	HEADWALL LENGTH	HEADWALL HEIGHT	HORIZONTAL BARS ITEM 556.0201 NO.	HORIZONTAL BARS ITEM 556.0201 LENGTH	VERTICAL BARS ITEM 556.0201 NO.	VERTICAL BARS ITEM 556.0201 LENGTH	ITEM 656.01 HOOK BOLTS	ITEM 555.02 CONCRETE CLASS B	ITEM 620.06 RIPRAP	D	W	1/2D	H	V	X	Y
TWIN 78"	2	INLET DS#7 RT 20+66 OUTLET	29'-3"	6'-3"	10 4 6	5'-0" 3'-9" 2'-6"	2 2 2 1	28'-9" 6'-9" 6'-3" 4'-6" 2'-9"	7 EA. PIPE =14 AT 1'-6" CTR.	5.6 C.Y.	12.04 ~~12.1~~ C.Y.	6'-6"	—	3'-3"	18"	21"	4 1/2"	6"
			29'-3"	6'-3"	10 4 6	5'-0" 3'-9" 2'-6"	2 2 2 1	28'-9" 6'-9" 6'-3" 4'-6" 2'-9"	7 EA. PIPE =14 AT 1'-6" CTR.	5.6 C.Y.	12.05 ~~12.1~~ C.Y.	6'-6"	—	3'-3"	18"	21"	4 1/2"	6"
TWIN 78"	2	INLET DS#8 RM 20+65 OUTLET	29'-3"	6'-3"	10 4 6	5'-0" 3'-9" 2'-6"	2 2 2 1	28'-9" 6'-9" 6'-3" 4'-6" 2'-9"	7 EA. PIPE =14 AT 1'-6" CTR.	5.6 C.Y.	12.07 ~~12.1~~ C.Y.	6'-6"	—	3'-3"	18"	21"	4 1/2"	6"
			29'-3"	6'-3"	10 4 6	5'-0" 3'-9" 2'-6"	2 2 2 1	28'-9" 6'-9" 6'-3" 4'-6" 2'-9"	7 EA. PIPE =14 AT 1'-6" CTR.	5.6 C.Y.	12.07 ~~12.1~~ C.Y.	6'-6"	—	3'-3"	18"	21"	4 1/2"	6"
TWIN 84"	2	INLET DS#9 SB 70+64 OUTLET	31'-6"	6'-6"	2 2 5 2	3'-0" 8'-3" 6'-6" 3'-0"	13 4 4	6'-0" 3'-0" 2'-6"	7 EA. PIPE =14 AT 1'-6" CTR.	6.16 ~~6.2~~ C.Y.	15.34 ~~15.6~~ C.Y.	7'-0"	—	3'-6"	18"	17"	9"	5"
			31'-6"	6'-6"	2 2 5 2	3'-0" 8'-3" 6'-6" 3'-0"	13 4 4	6'-0" 3'-0" 2'-6"	7 EA. PIPE =14 AT 1'-6" CTR.	6.2 C.Y.	15.34 ~~15.6~~ C.Y.	7'-0"	—	3'-6"	18"	17"	9"	5"

GENERAL NOTES:

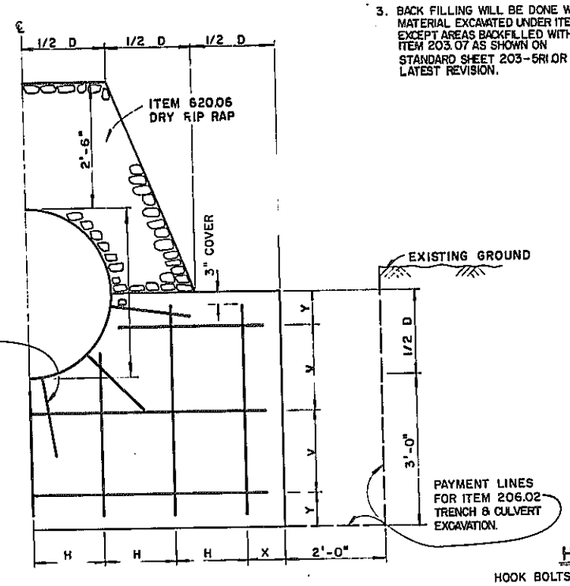
1. PAYMENT FOR BAR REINFORCEMENT UNDER ITEM 556.0201.
2. PAYMENT FOR HOOK BOLTS UNDER ITEM 656.01.
3. BACK FILLING WILL BE DONE WITH SUITABLE MATERIAL EXCAVATED UNDER ITEM 206.02 EXCEPT AREAS BACKFILLED WITH ITEM 203.07 AS SHOWN ON STANDARD SHEET 203-5R1 OR LATEST REVISION.



TOP VIEW OF EXCAVATION LIMITS

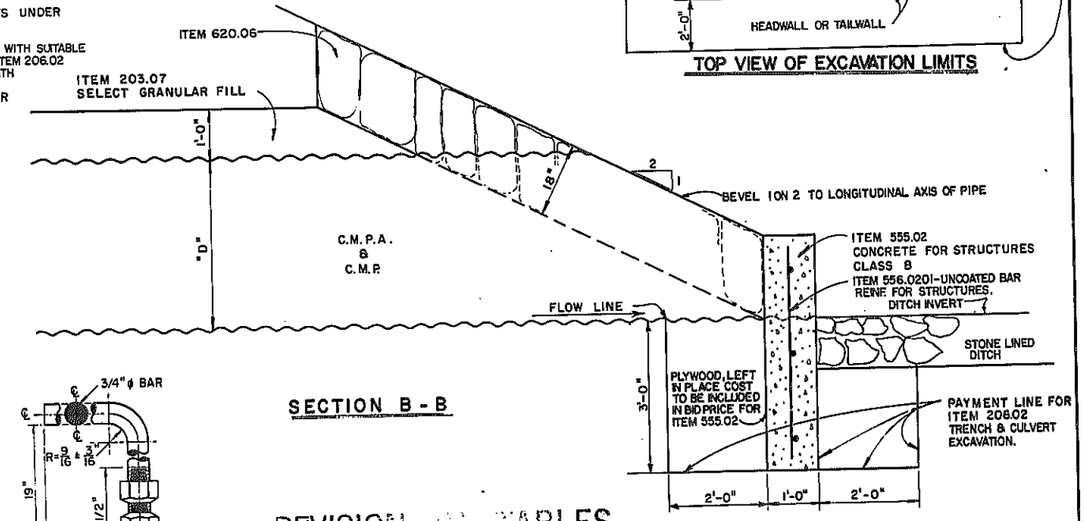


HALF SECTION A-A
C.S.P.A.

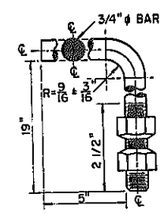


HALF SECTION A-A
C.S.P.

NOTE: EACH HALF SECTION SYMMETRICAL ABOUT ℄



SECTION B-B



HOOK BOLT DETAIL
HOOK BOLTS & NUTS FOR IMBEDMENT IN HEADWALLS
- ITEM 656.01 -

NOTE: COST OF MATERIAL AND INSTALLATION TO BE INCLUDED IN BID PRICE FOR FOR ITEM 656.01.

REVISION OF TABLES
ITEMS

CUT-OFF WALL DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

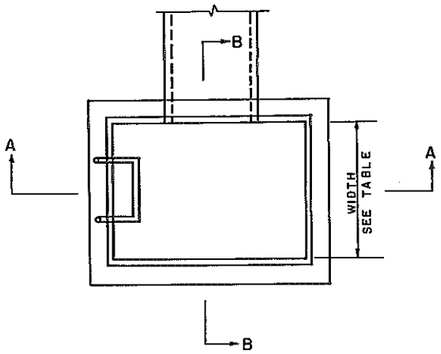
DRAWING No.	SCALE	DATE	
D-9	NOT TO SCALE	3/79	REGION 1

DATE
CHECKED BY
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

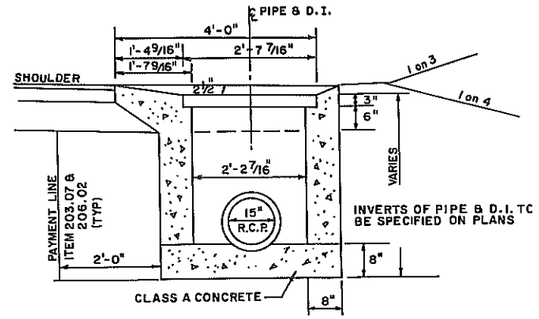
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	58	284

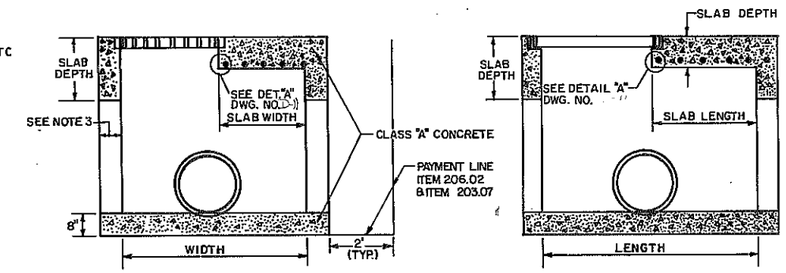
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY – DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



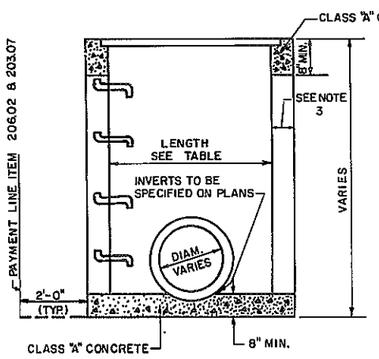
PLAN



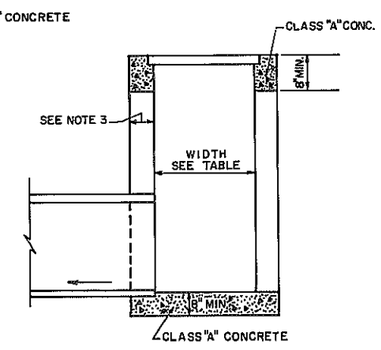
SECTION A-A
SCALE 3/4" = 1'-0"



RETICULINE AND RECTANGULAR TYPE DROP INLETS (WITH SLAB)

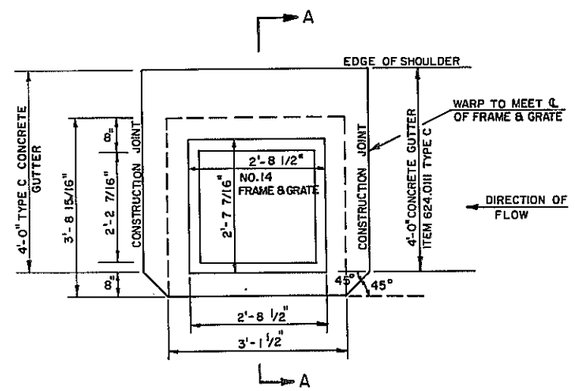


SECTION A-A

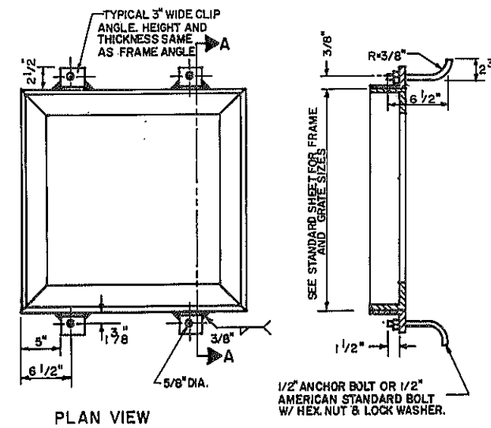


SECTION B-B

RETICULINE AND RECTANGULAR TYPE DROP INLETS

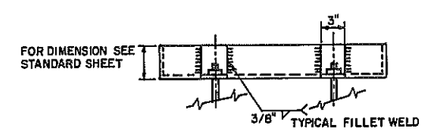


GUTTER TYPE 'C' DROP INLET
ITEM 09604.0503
SCALE 3/4" = 1'-0"
SEE NOTES 9 & 10



PLAN VIEW

SECTION A-A



SIDE VIEW
ANCHORS FOR FRAMES

NOTE :
WHERE FRAME AND GRATE ARE SUBJECT TO VEHICULAR TRAFFIC, THEY SHALL BE ANCHORED AS SHOWN. COST OF LABOR AND MATERIALS FOR ANCHORING FRAME TO BE INCLUDED IN PRICE BID FOR FRAMES AND GRATES.

DETAIL FOR ANCHORING STEEL FRAMES TO CATCH BASINS AND DROP INLETS

GENERAL NOTES

1. SHEETING IS REQUIRED FOR ALL EARTH EXCAVATION DEEPER THAN 5'-0" UNLESS SPECIFICALLY ORDERED BY THE ENGINEER. PAYMENT WILL BE PROVIDED BY ITEM 552.05, SAFE OPERATION SHEET PILING.
2. ALL PIPES SHALL BE LAID EVEN WITH OR CUT FLUSH WITH THE INSIDE WALL OF THE STRUCTURE.
3. WALL THICKNESSES
   a. CONCRETE CONSTRUCTION
      0'-16' DEEP – 8" THICK.
      OVER 16' DEEP – 12" THICK.
   b. CONCRETE BLOCK CONSTRUCTION
      0-10' DEEP – 8" THICK.
      10'-16' DEEP – 12" THICK.
      OVER 16' DEEP – 16" THICK.
4. ALL CONCRETE CAST-IN-PLACE TO BE CLASS "A"
5. FOR FRAME AND GRATE SIZES AND DETAILS, SEE STANDARD SHEETS 655-3, 655-4, 655-5, AND 655-6, OR LATEST REVISION.
6. PAYMENT FOR RETICULINE AND RECTANGULAR GRATES AND FRAMES SHALL BE MADE UNDER ITEM 655.02, FRAMES AND GRATES (FABRICATED).
7. REBARS WILL BE PAID FOR UNDER ITEM 556.0201 BAR REINFORCEMENT FOR STRUCTURES.
8. LADDER RUNGS ARE REQUIRED FOR ALL D.I.'S GREATER THAN 4'-0" IN DEPTH FOR DETAIL SEE DWG. NO. D-11.

DROP INLETS

ITEM NUMBER	TYPE	FRAME	WIDTH	SLAB WIDTH	LENGTH	SLAB LENGTH	SLAB DEPTH	WIDTH BAR REINFORCEMENT SIZE	WIDTH BAR REINFORCEMENT LENGTH	WIDTH BAR REINFORCEMENT QUANT. & SPAC.	LENGTH BAR REINFORCEMENT SIZE	LENGTH BAR REINFORCEMENT LENGTH	LENGTH BAR REINFORCEMENT QUANT. & SPAC.	REBARS
01604.0501	A	1	1'-6 15/16"	—	1'-10 1/2"	—	—	—	—	—	—	—	—	—
09604.0502	B	(2)-8	5'-11 1/2"	—	3'-6 1/2"	—	—	—	—	—	—	—	—	—
01604.0508	H	8	1'-9 7/16"	—	3'-6 1/2"	—	—	—	—	—	—	—	—	—
01604.0522	V	22	2'-9 15/16"	—	3'-11 1/2"	—	—	—	—	—	—	—	—	—
01604.0523	AA	22	3'-2"	4"	3'-11 1/2"	—	10 1/4"	#6	5'-6"	4 @ 2 1/2"	—	—	—	33.0#
09604.0503	C	14	2'-7 7/16"	—	2'-3 1/2"	—	—	—	—	—	—	—	—	—

DRAINAGE STRUCTURE DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

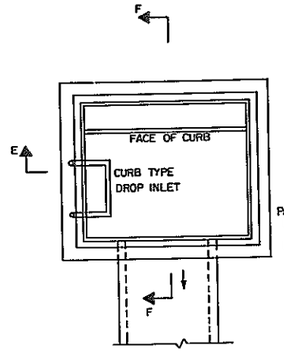
DRAWING No.	SCALE	DATE	REGION
D-10	AS SHOWN	4/79	REGION I

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

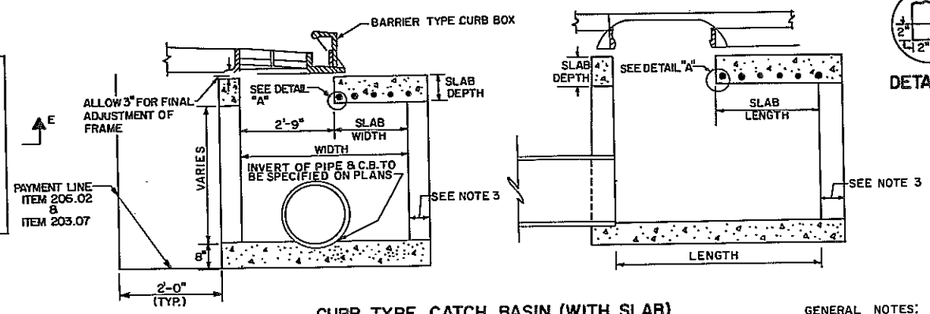
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	59(1)	284

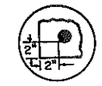
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.-880
SCHENECTADY COUNTY



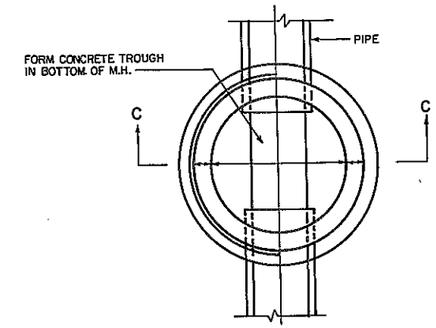
PLAN



CURB TYPE CATCH BASIN (WITH SLAB)
ITEM 01604.0211
ITEM 01604.0212



DETAIL "A"



PLAN VIEW
NOT TO SCALE

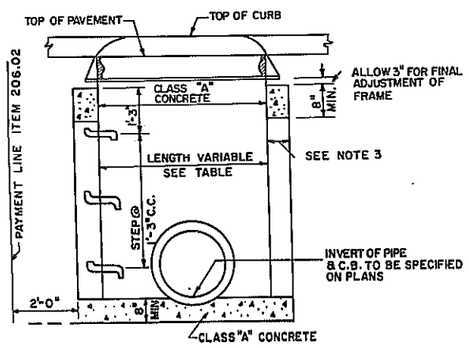
GENERAL NOTES:

1. SHEETING IS REQUIRED FOR ALL EARTH EXCAVATION DEEPER THAN 5'-0" UNLESS SPECIFICALLY ORDERED BY THE ENGINEER. PAYMENT WILL BE PROVIDED UNDER ITEM 552.05, SAFE OPERATION SHEET PILING.
2. ALL PIPES SHALL BE LAID EVEN WITH OR CUT FLUSH WITH THE INSIDE WALL OF THE STRUCTURE.
3. WALL THICKNESS:

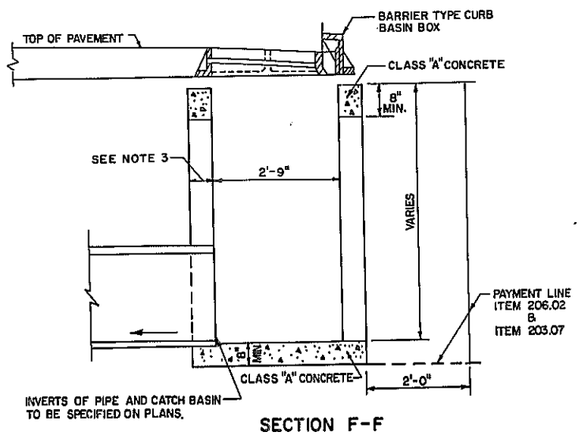
CONCRETE CONSTRUCTION	CONCRETE BLOCK CONSTRUCTION
0'-16' DEEP - 8" THICK	0-10' DEEP - 8" THICK
OVER 16'-12" THICK	10'-16' DEEP - 12" THICK
	OVER 16' DEEP - 16" THICK

4. ALL CONCRETE CAST - PLACE TO BE CLASS "A"
5. GALVANIZED STEEL RETICULINE GRATE WITH CAST IRON FRAME WITH CURB BOX TO BE USED WITH STRUCTURE SEE STANDARD SHEET 655-7R OR LATEST REVISION
6. PAYMENT FOR FRAME AND GRATE FOR CURB TYPE CATCH BASINS SHALL BE MADE UNDER ITEM 15655.03.
7. REBARS WILL BE PAID FOR UNDER ITEM 556.0201, UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES.
8. RUNGS ARE REQUIRED FOR ALL CATCH BASINS GREATER THAN 4'-0" IN DEPTH. THEY SHALL BE MADE FROM APPROVED MATERIALS AND PLACED 15" ON CENTER. ALL BENDS SHALL BE SHAPED WITH A 1" RADIUS TO THE CENTER OF THE BAR.
9. PAYMENT FOR MANHOLE FRAME AND COVER TO BE MADE UNDER ITEM 655.01 FRAMES AND GRATES (CASTINGS).
10. FROM SS 655 7R-1 THE FOLLOWING FRAME, CURB BOX AND GRATE ASSEMBLY SHALL APPLY.

TYPE A D.I.:	F-1	FRAME
	CU-1	CURB BOX
	G-1	GRATE
TYPE D D.I.:	F-2	FRAME
TYPE E D.I.:	CU-2	CURB BOX
	G-2	GRATE
TYPE C D.I.:	F-3	FRAME
	CU-3	CURB BOX
	G-3	GRATE

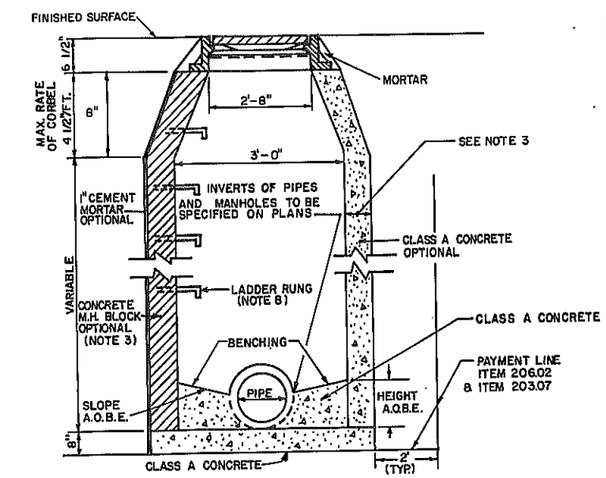


SECTION E-E



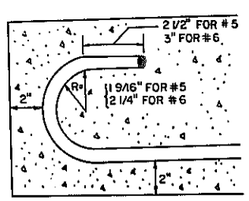
SECTION F-F

CURB TYPE CATCH BASIN
ITEM 01604.0201
ITEM 01604.0203

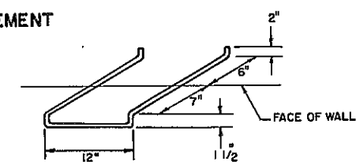


SECTION C-C
MANHOLE – ITEM 01604.0401

TYPE A
DS # 19-TH6084+41 RT
DS#20-TH6086+00 RT
TP 770+20 LT
TP 770+40 LT
TP 770+60 LT & RT
TP 770+70 LT
TP 773+00 RT



STANDARD A.C.I. HOOK
FOR ALL C.B. REINFORCEMENT



DETAIL OF LADDER RUNG
SPACE 15" o.c.
INCLUDED IN THE PRICE BID FOR CATCH BASIN OR DROP INLET
SEE NOTE 8

CURB TYPE CATCH BASINS

ITEM NUMBER	TYPE	WIDTH	SLAB WIDTH	LENGTH	SLAB LENGTH	SLAB DEPTH	WIDTH BAR REINFORCEMENT SIZE	WIDTH BAR REINFORCEMENT LENGTH	WIDTH BAR REINFORCEMENT QUAN. & SPACING	LENGTH BAR REINFORCEMENT SIZE	LENGTH BAR REINFORCEMENT LENGTH	LENGTH BAR REINFORCEMENT QUAN. & SPACING	REBARS
01604.0201	A	2'-9"	—	2'-2 1/2"	—	—	—	—	—	—	—	—	—
01604.0203	C	2'-9"	—	3'-10 1/2"	—	—	—	—	—	—	—	—	32.6#
01604.0211	D	3'-2"	5"	3'-01/2"	—	10 3/4"	#6	5'-5"	4@3"	—	—	—	31.7#
01604.0212	E	3'-8"	11"	3'-01/2"	—	9 1/4"	#5	5'-07/8"	6@3"	—	—	—	

REVISIONS

DRAINAGE DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
D-11	AS SHOWN	4/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
TC 47-2 (5/76)

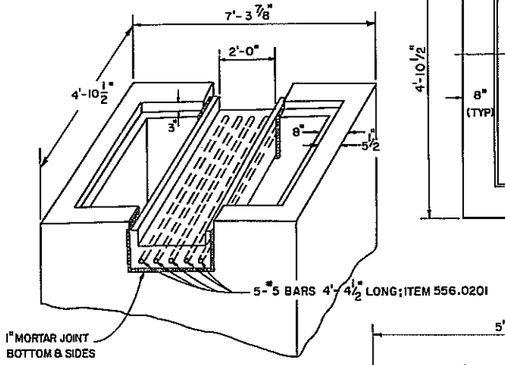
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	60	284

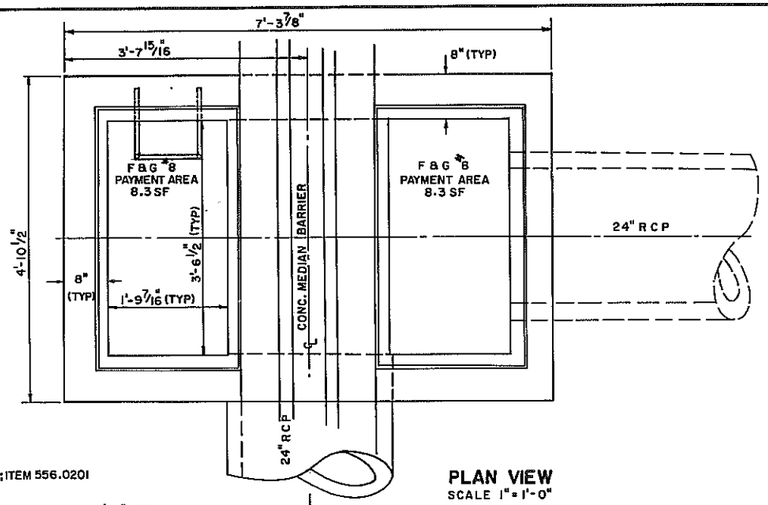
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

GENERAL NOTES:

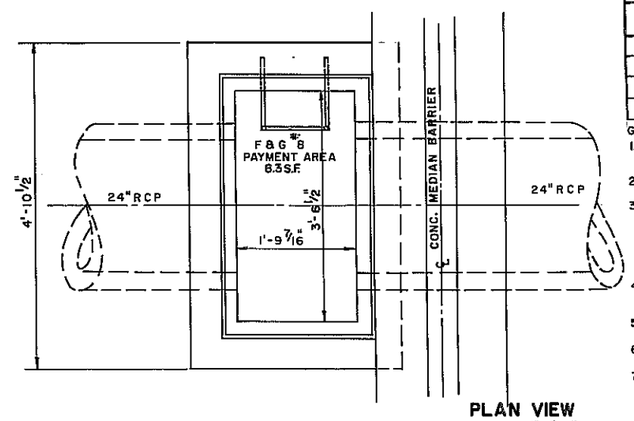
1. SHEETING IS REQUIRED FOR ALL EARTH EXCAVATION DEEPER THAN 5'-0" UNLESS SPECIFICALLY ORDERED BY THE ENGINEER. PAYMENT WILL BE PROVIDED BY ITEM 552.05 SAFE OPERATION SHEET PILING
2. ALL PIPES SHALL BE LAID EVEN OR CUT FLUSH WITH INSIDE WALL OF STRUCTURE
3. ALL CONCRETE CAST IN PLACE SHALL BE CLASS A
   WALL THICKNESS
   a. CONC. CONSTRUCTION
      0'-16' DEEP - 8" THICK
      OVER 16' DEEP - 12" THICK
   b. BLOCK CONSTRUCTION
      0'-10' DEEP - 8" THICK
      10'-16' DEEP - 12" THICK
      10'-16' DEEP - 16" THICK
4. ASPHALT FILLER FOR CONC. MEDIAN BARRIER TO MEET SPECIFICATIONS FOR MATERIAL ITEM 702.05 AND BE INCLUDED IN PRICE BID FOR D.I.
5. LADDER RUNGS ARE REQUIRED FOR ALL D.I.'S GREATER THAN 4'-0" IN DEPTH. FOR DETAILS SEE DWG. NO. D-11
6. REBARS TO BE PAID FOR UNDER ITEM 556.0201, UNCOATED BAR REINFORCEMENT FOR STRUCTURES
7. PAYMENT FOR RETICULINE OR RECTANGULAR FRAMES AND GRATES SHALL BE MADE UNDER ITEM 655.02 FRAMES & GRATES (FABRICATED)



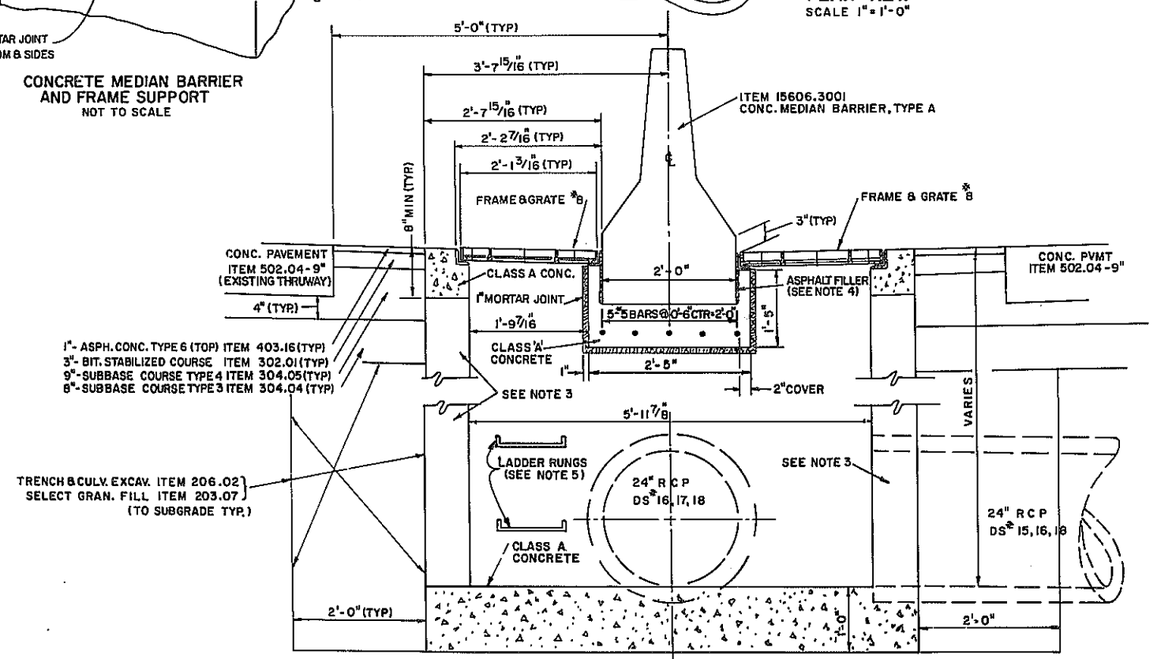
CONCRETE MEDIAN BARRIER AND FRAME SUPPORT
NOT TO SCALE



PLAN VIEW
SCALE 1" = 1'-0"

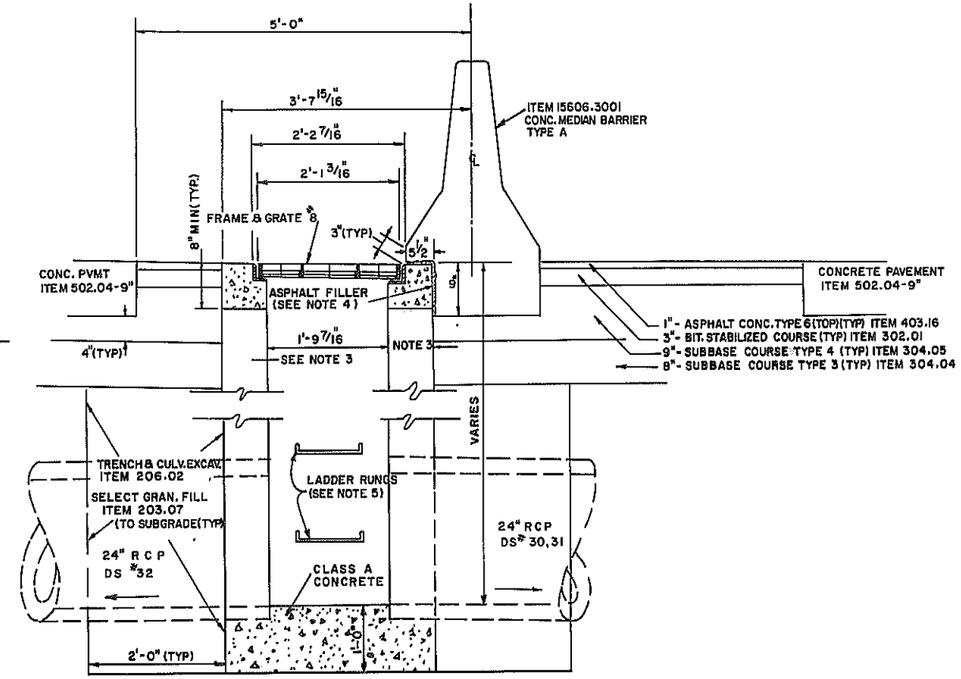


PLAN VIEW
SCALE 1" = 1'-0"



ELEVATION
SCALE 1" = 1'-0"

DROP INLET - TYPE B (DOUBLE DI)
ITEM 09604.0502
DS #15 - RL 47+50 - 26' LT
DS #16 - RL 44+72.72 - 26' LT
DS #17 - TH 6084+41 - 58' LT
DS #18 - RL 43+30 - 26' LT



ELEVATION
SCALE 1" = 1'-0"

DROP INLET TYPE H (SINGLE DI)
ITEM 01604.0508
DS #30 - RT 28+50
DS #31 - RT 31+90
DS #32 - RP 35+27

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
BC 47-2 (5/76)

DRAINAGE DETAILS

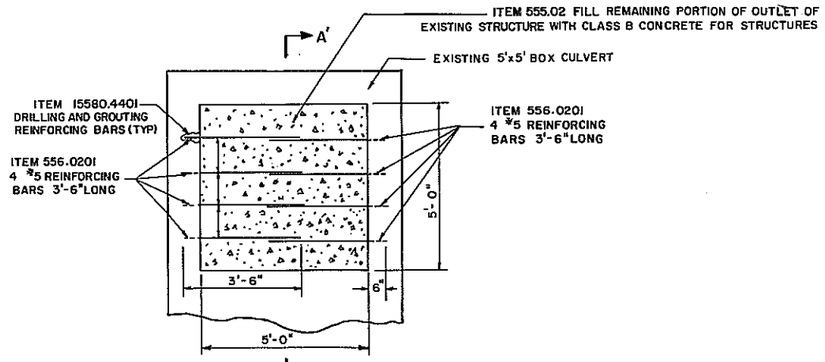
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
D-12	1" = 1'-0"	4/79	1

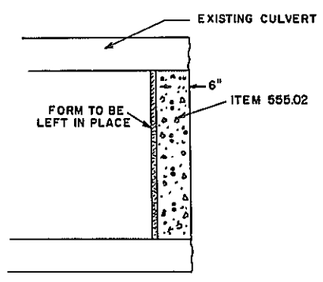
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	61	264

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



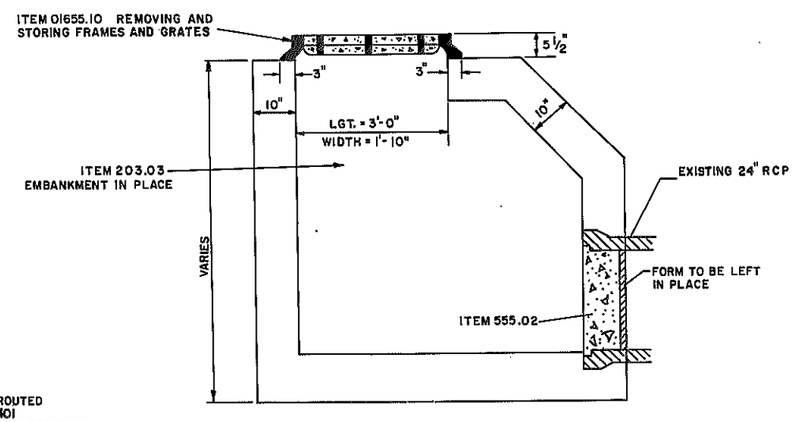
ELEVATION
SCALE 1/2" = 1'-0"



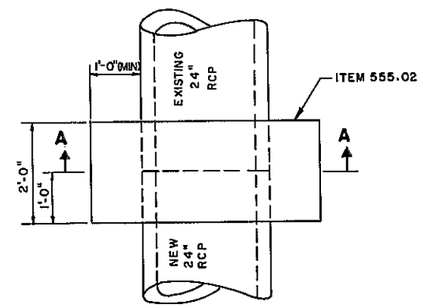
SECTION A'-A'

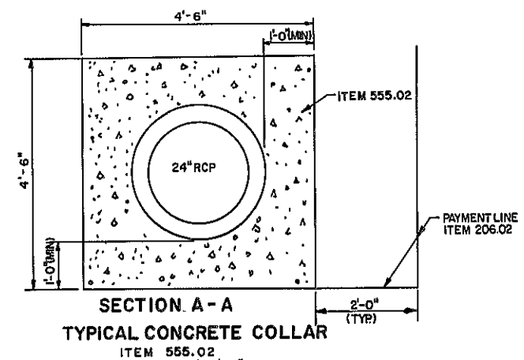
NOTE: 1. REINFORCING BARS TO BE DRILLED AND GROUTED INTO EXISTING WALLS UNDER ITEM 15580.4401
2. REINFORCING BARS TO BE PAID FOR UNDER ITEM 556.0201 UNCOATED BAR REINFORCEMENT FOR STRUCTURES
3. WINGWALLS AT INLET AND WINGWALLS AND 50±L.F. OF STRUCTURE AT OUTLET TO BE REMOVED UNDER ITEM 203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL

DETAIL TO PLUG EXISTING 5'x5' BOX CULVERT
DS#9A - SB70+30



TYPICAL PLUG FOR EXISTING DI
ITEM 555.02
SCALE 3/4" = 1'-0"
DS #20A - TH 6088 + 20 LT
DS #21A - TH 6092 + 40 LT
DS #24 - TH 6096 + 45 LT





SECTION A-A
TYPICAL CONCRETE COLLAR
ITEM 555.02
SCALE 3/4" = 1'-0"
DS #11 TH 6070 + 77 LT
DS #12 TH 6074 + 57 LT
DS #14 TH 6078 + 24 RT
DS #21 TH 6092 + 40 RT
DS #25 TH 6101 + 77 LT
DS #26 TH 6101 + 77 RT
DS #27 TH 6105 + 42 LT
DS #28 TH 6105 + 42 RT

MISC. DRAINAGE DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
D-13	AS SHOWN	4/79	REGION 1

DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

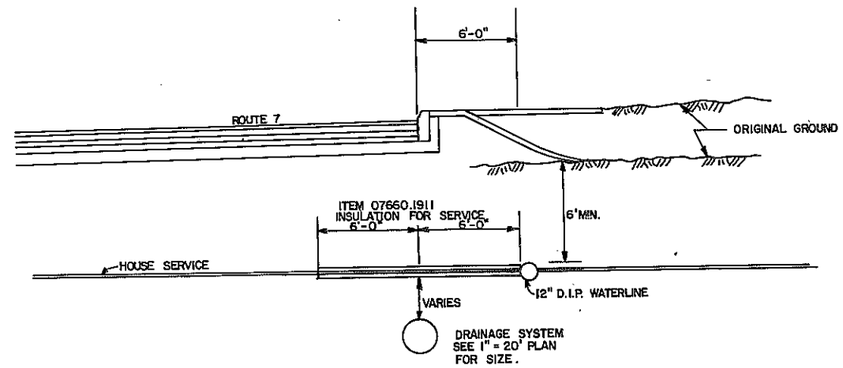
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	62A1	[illegible]

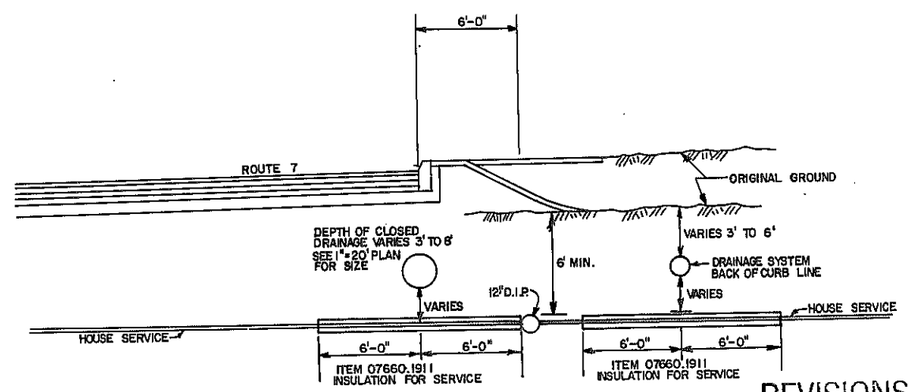
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY

MUNICIPAL WATER MAIN RELOCATION

LOCATION AND DESCRIPTION	QUANTITY
1. 12" D.I.P. WATER MAIN RS 46+20 TO SB 66+76 LT	
ITEM 203.07	~~972.77~~ ~~980~~ CY
ITEM 206.02	~~376.71~~ ~~3950~~ CY
ITEM 552.05	~~37,870.75~~ ~~37100~~ SF
ITEM 555.02	~~43.5~~ ~~5~~ CY
ITEM 603.2117	~~34~~ ~~36~~ LF
ITEM 08660.061212	~~[illegible]~~ ~~2056~~ LF
ITEM 08660.070112; SB 57+40±; SB 63+10±, LT	2 EA
ITEM 08660.10; SB 46+54 LT; SB 49+90 LT	2 EA
ITEM 15660.13; RS 46+30; SB 49+95; SB 55+50, SB 59+75; SB 65+30 LT	5 EA
ITEM 08660.1725	1 EA
2. 6" D.I.P. WATER MAIN FROM 12" D.I.P. WATER MAIN AT SB 63+46± LT TO TOLL PLAZA UTILITY BLDG.	
ITEM 203.07	~~491.67~~ ~~400~~ CY
ITEM 206.02	~~2612.05~~ ~~2370~~ CY
ITEM 552.05	~~24,676.45~~ ~~23900~~ SF
ITEM 552.02	~~2.23~~ ~~2~~ CY 2.23
ITEM 08660.0606	~~1444.5~~ ~~1400~~ LF
ITEM 08660.070106; SB 63+18± LT	~~1~~ EA
3. 6" D.I.P. WITH SLEEVED PORTION FROM 12" D.I.P. MAIN TO 6" D.I.P. MAIN AT SB 63+46± LT AND RT	
ITEM 203.07	~~4614~~ ~~45~~ CY
ITEM 206.02	~~176.81~~ ~~160~~ CY
ITEM 552.05	~~2193~~ ~~1500~~ SF
ITEM 555.02	1 CY
ITEM 603.2117	60 LF
ITEM 08660.0606	~~102.5~~ ~~70~~ LF
ITEM 08660.070106; SB 63+18± LT	1 EA
4. 6" D.I.P. WITH SLEEVED PORTION FROM 12" D.I.P. MAIN TO EXISTING 6" SERVICE TO SHALMONT SCHOOL AT SB 57+50±	
ITEM 203.07	~~2435~~ ~~40~~ CY
ITEM 206.02	~~1748~~ ~~735~~ CY
ITEM 552.05	~~8132~~ ~~1260~~ SF
ITEM 555.02	1 CY
ITEM 603.2117	~~54.5~~ ~~56~~ LF 54.50
ITEM 08660.0606	~~194.1~~ ~~74~~ LF
ITEM 08660.070106; SB 57+50± LT	1 EA
ITEM 07660.1911	14 LF
5. 6" D.I.P. WATER MAIN SB 83+44 TO SB 89+45 RT	
ITEM 203.07	~~2033~~ ~~200~~ CY
ITEM 206.02	~~830.65~~ ~~700~~ CY
ITEM 552.05	~~9886.36~~ ~~9950~~ SF
ITEM 555.02	1 CY
ITEM 08660.0606	~~606~~ ~~602~~ LF
ITEM 15660.13; SB 83+44	1 EA
ITEM 08660.070106; SB 89+40 RT ~~83+44~~	~~2~~ 4 EA
6. 6" D.I.P. WATER MAIN SB ~~63+46~~ TO SB 66+00± RT	
ITEM 203.07	~~4276.95~~ CY
ITEM 206.02	~~247.46~~ ~~285~~ CY
ITEM 552.05	~~5345.42~~ ~~3400~~ SF
ITEM 08660.0606	~~253.1~~ ~~400~~ LF
ITEM 01660.1403 SB 66+~~00~~ 76	1 EA
7. 10" D.I.P. WATER MAIN TO BE LOWERED AT SB 89+45	
ITEM 203.07	~~63.72~~ ~~35~~ CY
ITEM 206.02	~~147.48~~ ~~155~~ CY
ITEM 552.05	~~1262~~ ~~1050~~ SF
ITEM 555.02	3 CY
ITEM 02603.0524	~~47.50~~ LF
ITEM 08660.0610 ~~15660.13~~ GR11+50RT	~~76.50~~ LF - 16A.
ITEM 07660.1911 ~~08660.1718~~	12 LF - 16A.
8. EXTEND EXISTING 21" CMP SLEEVE UNDER THRUWAY AND RELOCATE PORTION OF 12" MAIN UNDER DITCH AT TH 6098+20± RT	
ITEM 203.07	~~704.4~~ ~~80~~ CY
ITEM 206.02	~~2146.3~~ ~~310~~ CY
ITEM 552.05	~~2440~~ ~~3300~~ SF
ITEM 555.02	~~6.48~~ ~~2.5~~ CY
ITEM 02603.0517	14 LF
ITEM 08660.061212	~~134~~ ~~160~~ LF
ITEM 08660.1725	1 EA
9. EXTEND EXISTING 21" CMP SLEEVE UNDER THRUWAY AND RELOCATE PORTION OF 12" MAIN UNDER DITCH AT TH 6098+20± LT	
ITEM 203.07	~~463.50~~ CY
ITEM 206.02	~~1692.50~~ ~~170~~ CY
ITEM 552.05	~~1835~~ ~~1750~~ SF
ITEM 555.02	~~4.4~~ ~~2.5~~ CY
ITEM 02603.0517	10 LF
ITEM 08660.061212	~~94.5~~ ~~100~~ LF
~~ITEM 08660.1116~~	~~1 EA~~
ITEM 08660.1725	1 EA
10. RELOCATE 8" PVC WATER MAIN FROM 12" C.I.P. ON OLD DUANESBURG ROAD NORTH TO EDGECOMB STEEL COMPANY	
ITEM 203.07	~~821.24~~ ~~830~~ CY
ITEM 206.02	~~3972.16~~ ~~3450~~ CY
ITEM 552.05	~~27062.2~~ ~~28500~~ SF
ITEM 555.02	4 CY
ITEM 603.2114	345 LF
ITEM 01660.71	~~2061.1~~ ~~2070~~ LF
11. ADJUST VALVE BOX AT 94+26± LT	
ITEM 08660.10	1 EA
12. REESTABLISH HOUSE SERVICES	
ITEM 04660.12	~~28~~ ~~26~~ EA
ITEM 07660.1911	~~180~~ ~~200~~ LF
13. WATER MAIN SPECIALS	
ITEM 08660.8060	12,740 ~~4500~~ LBS.



HOUSE SERVICE ABOVE DRAINAGE LINE



HOUSE SERVICE BELOW DRAINAGE LINE

REVISIONS

HOUSE SERVICE CONNECTION AND WATER LINE TABLES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
U-1	1/4" = 1'-0"	7/79	REGION 1

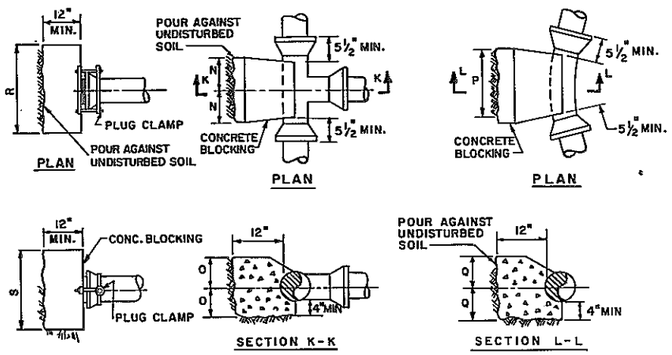
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

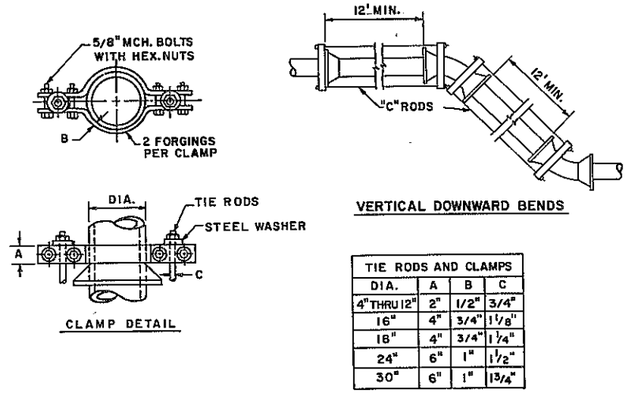
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	63	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY,
SCHENECTADY – DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY

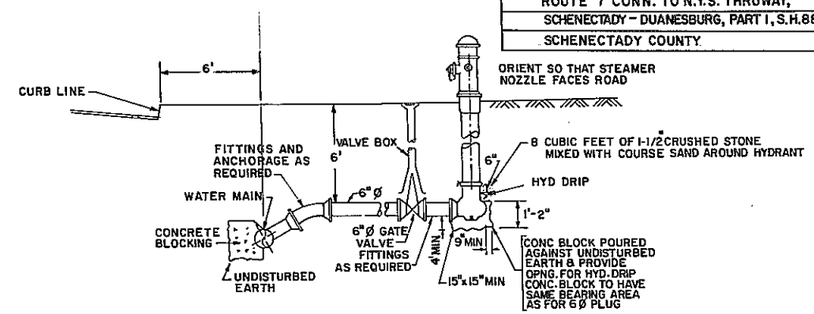


THRUST BLOCK DETAILS
NO SCALE

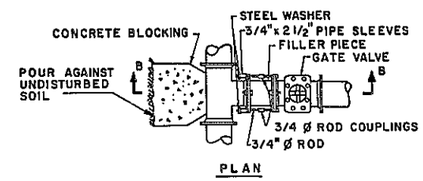


TIE RODS AND CLAMPS			
DIA.	A	B	C
4" THRU 12"	2"	1/2"	3/4"
16"	4"	3/4"	1 1/8"
18"	4"	3/4"	1 1/4"
24"	6"	1"	1 1/2"
30"	6"	1"	1 3/4"

STRAPPING DETAILS
NO SCALE

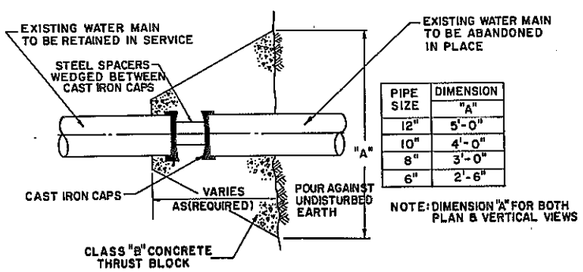


DETAILS OF HYDRANT INSTALLATION
ITEM 15660.13 RELOCATING HYDRANT ASSEMBLY COMPLETE



THRUST BLOCKS FOR TEES, HORIZONTAL & VERTICAL BENDS & PLUGS & CAPS										
DESCRIPTION	DIMENSION	4"Ø	6"Ø	8"Ø	10"Ø	12"Ø	14"Ø	16"Ø	18"Ø	24"Ø
TEES	N	0'-6"	0'-9"	1'-0"	1'-2"	1'-6"	1'-9"	2'-0"	2'-3"	3'-0"
	O	0'-5"	0'-8"	0'-4"	1'-2"	1'-4"	1'-6"	1'-9"	2'-0"	2'-9"
HOR.& VERT. UPWARD 90° BENDS	P	1'-2"	1'-9"	2'-6"	3'-0"	3'-6"	3'-9"	3'-9"	5'-0"	6'-6"
	Q	0'-6"	0'-10"	1'-0"	1'-3"	1'-7"	2'-0"	2'-3"	2'-6"	3'-5"
HOR.& VERT. UPWARD 45° BENDS	P	1'-0"	1'-6"	1'-8"	2'-0"	2'-6"	3'-0"	3'-6"	3'-8"	5'-0"
	Q	0'-4"	0'-6"	0'-10"	1'-0"	1'-2"	1'-4"	1'-6"	1'-10"	2'-6"
HOR.& VERT. UPWARD 22 1/2° BENDS	P	0'-9"	1'-0"	1'-4"	1'-6"	1'-10"	2'-0"	2'-4"	2'-8"	3'-6"
	Q	0'-3	0'-4"	0'-6"	0'-9"	0'-10"	1'-0"	1'-2"	1'-3"	1'-9"
HOR.& VERT. UPWARD 11 1/4° BENDS	P	0'-6"	0'-8"	1'-0"	1'-0"	1'-3"	1'-6"	1'-8"	2'-0"	2'-9"
	Q	0'-3"	0'-4"	0'-5"	0'-7"	0'-8"	0'-9"	0'-10"	0'-11"	1'-2"
PLUGS	R	0'-10"	1'-6"	2'-0"	2'-4"	2'-8"	3'-6"	4'-0"	4'-6"	6'-0"
	S	1'-0"	1'-4"	1'-10"	2'-4"	3'-0"	3'-0"	3'-6"	4'-0"	5'-6"

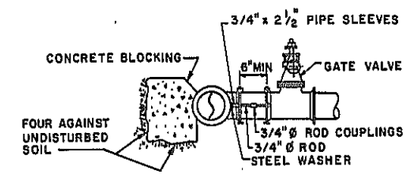
THRUST BLOCKS DESIGNED FOR 200 LB. PER SQ. IN. TEST PRESSURE & 3000 LB. PER SQ. FT. SOIL PRESSURE

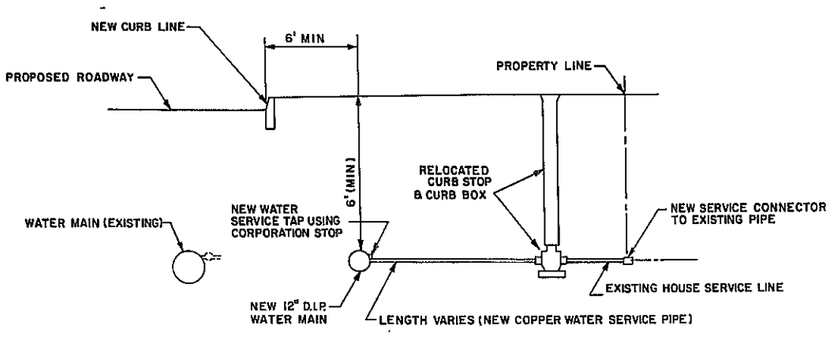


PIPE SIZE	DIMENSION "A"
12"	5'-0"
10"	4'-0"
8"	3'-0"
6"	2'-6"

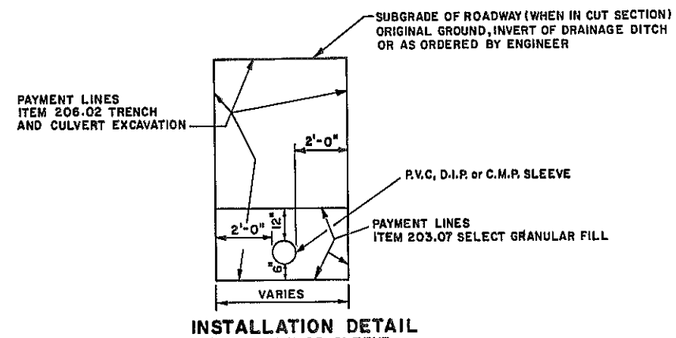
NOTE: DIMENSION "A" FOR BOTH PLAN & VERTICAL VIEWS

CUT AND CAP WATER LINES





REESTABLISH WATER SERVICE HOUSE CONNECTION
ITEM 04660.12



INSTALLATION DETAIL
WATERMAIN OR SLEEVE
P.V.C., D.I.P. OR C.M.P.

WATER MAIN DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

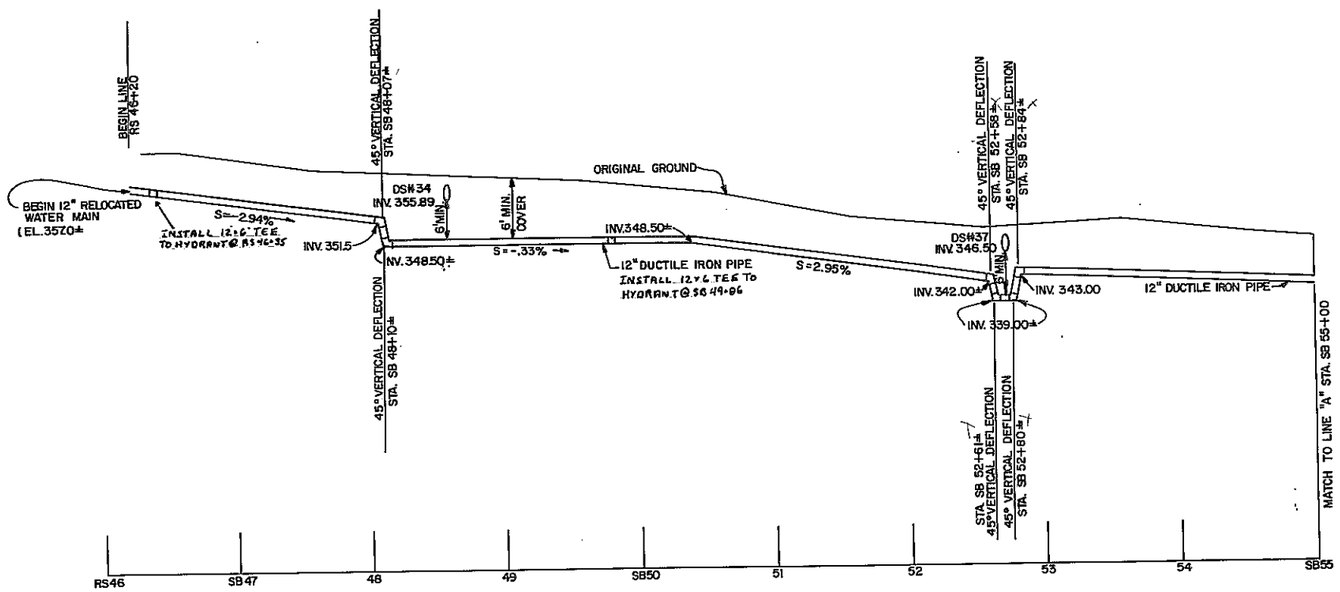
DRAWING No.	SCALE	DATE	REGION
U-2	NO SCALE	7/79	1

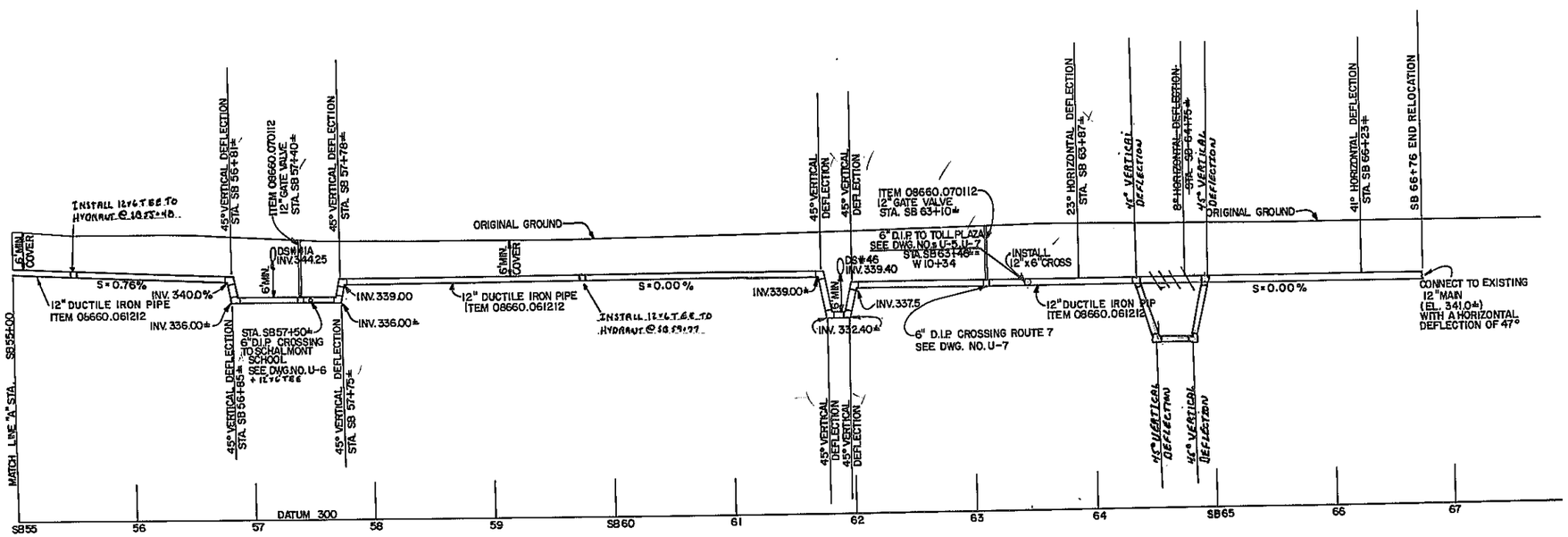
DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HE 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	6421	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY





REVISIONS

RELOCATED 12" WATERMAIN ALONG NORTH OF ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
U-3	HORIZ. 1"=50' VERT. 1"=10'	6/79	REGION I

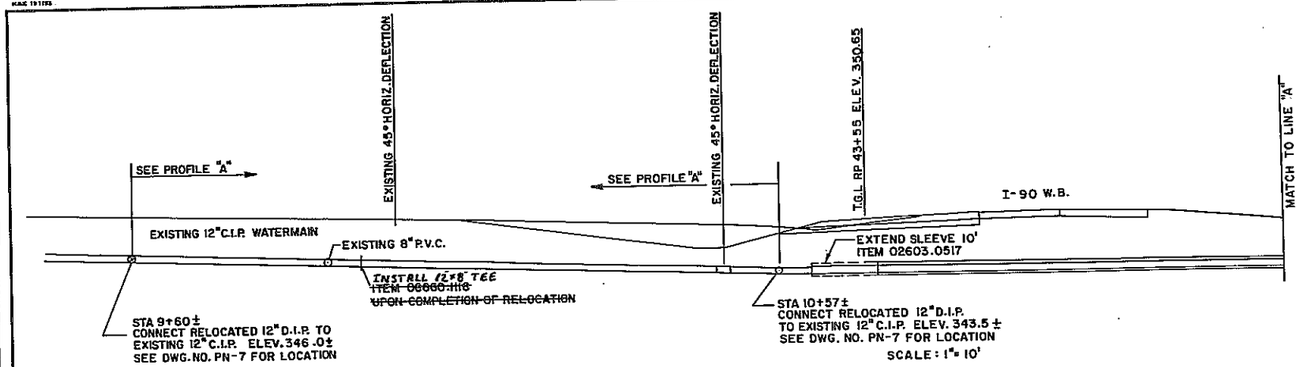
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

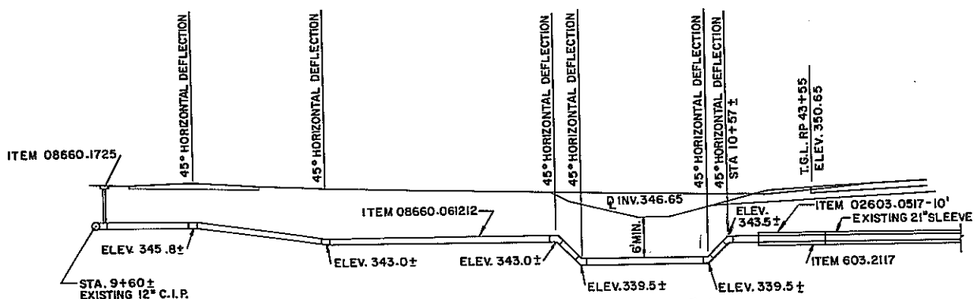
HC 47-2 (5/76)

D96243

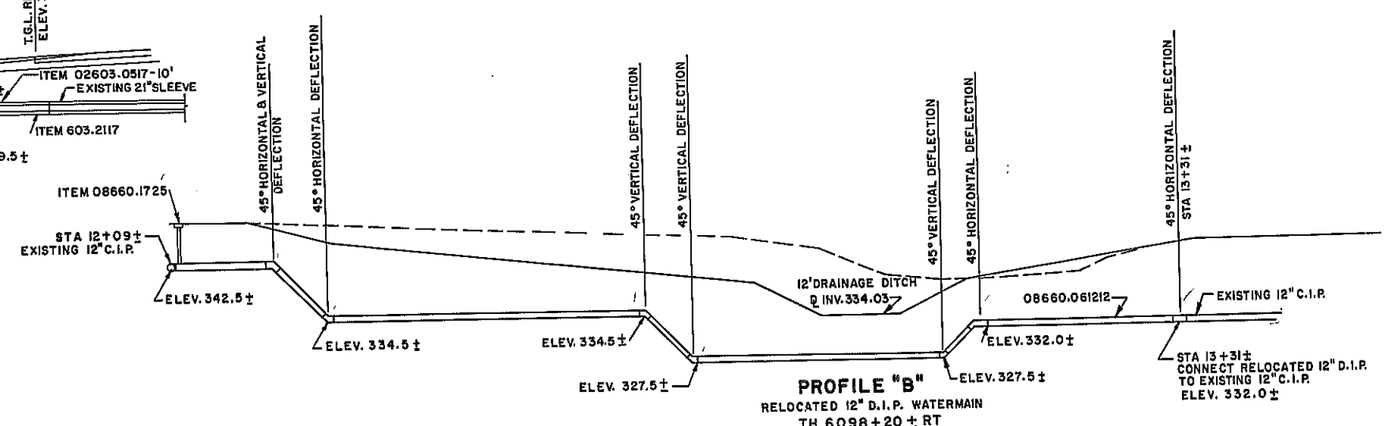
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	65R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

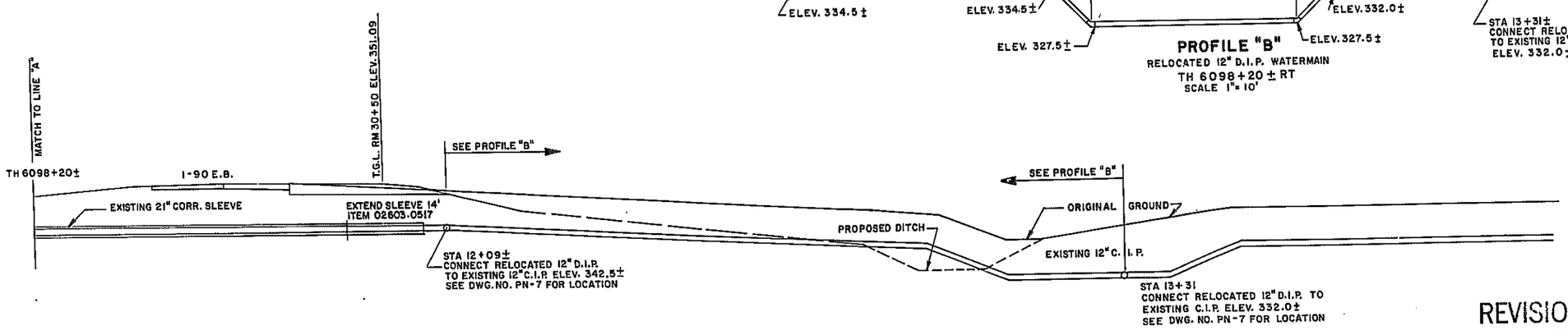




PROFILE "A"
RELOCATED 12" D.I.P. WATERMAIN
TH 6098+20± LT.
SCALE: 1" = 10'



PROFILE "B"
RELOCATED 12" D.I.P. WATERMAIN
TH 6098+20± RT
SCALE 1" = 10'



EXISTING 12" C.I.P. UNDER THRUWAY
TH 6098+20±

REVISIONS

WATER MAIN PROFILES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
U-4	1" = 10'	7/79	1

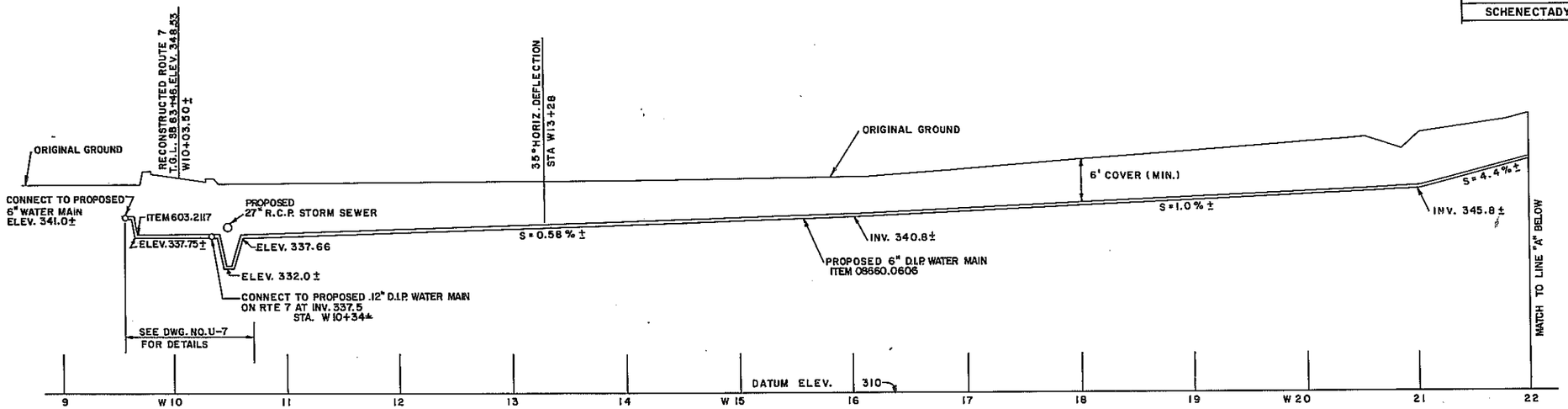
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

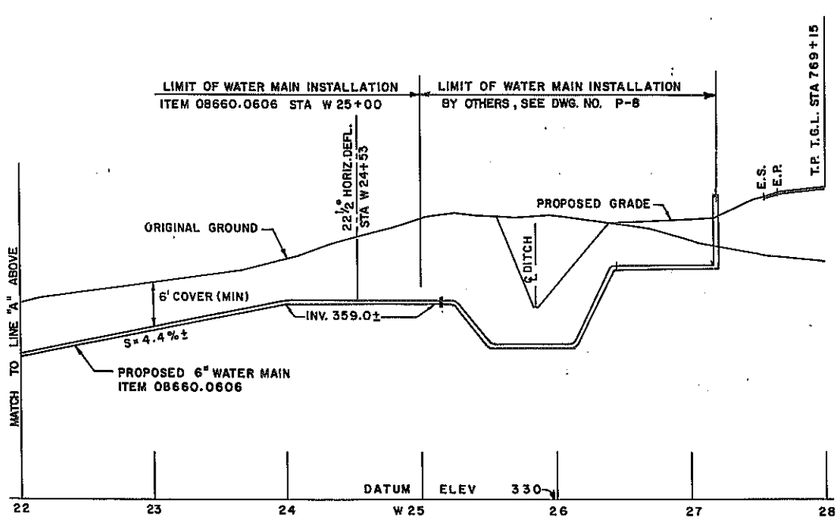
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	66	284

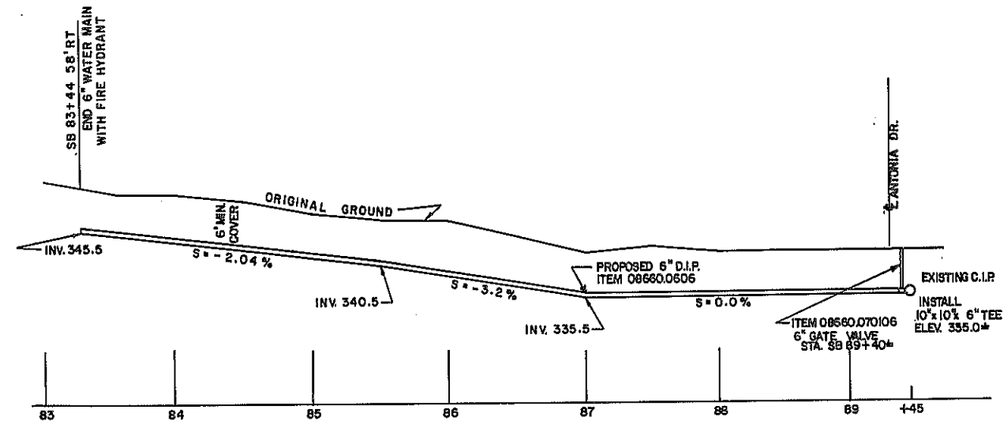
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



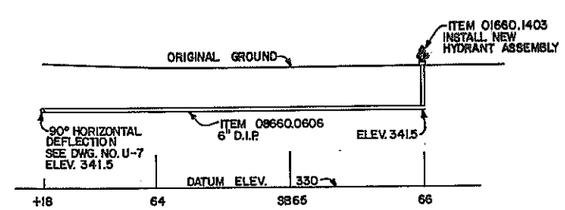
6" D.I.P. ROUTE 7 TO TOLL PLAZA



6" D.I.P. ROUTE 7 TO TOLL PLAZA



6" D.I.P. SB 83+44 TO SB 89+45, RT.



6" D.I.P. SB 63+46 TO SB 66+00, RT.

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF

HE 47-2 (5/76)

WATER MAIN PROFILES

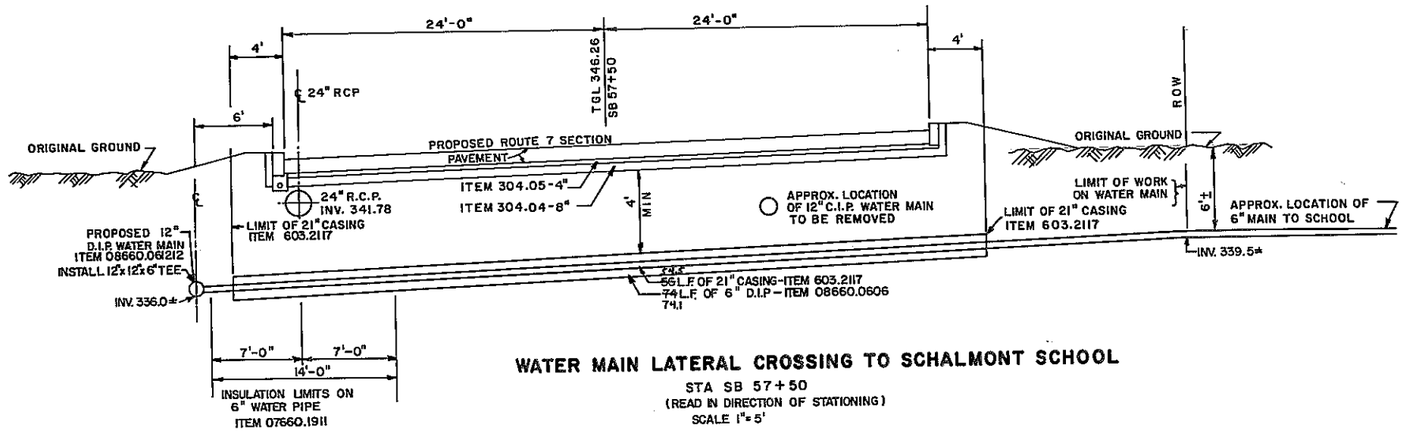
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
U-5	1"=50' HORIZ. 1"=10' VERT.	7/79	1

D96243

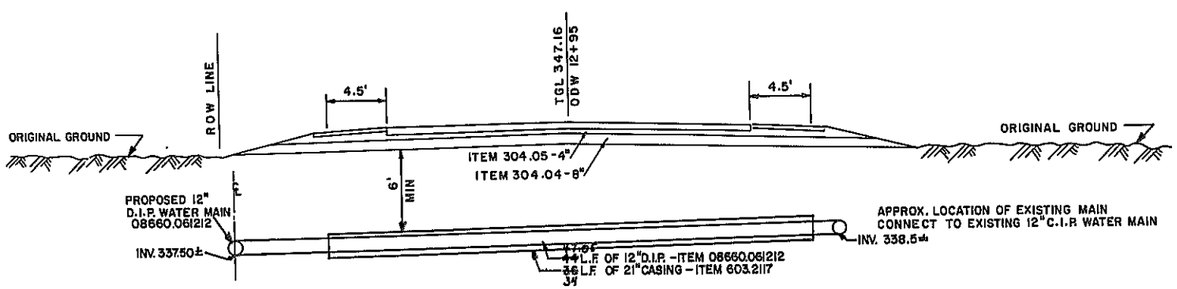
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	67(1)	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



WATER MAIN LATERAL CROSSING TO SCHALMONT SCHOOL

STA SB 57+50
(READ IN DIRECTION OF STATIONING)
SCALE 1" = 5'



WATER MAIN CROSSING OF OLD DUANESBURG ROAD

SKEW 42° ODW 12+95
SCALE 1" = 5'

REVISIONS

WATER MAIN CASING SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

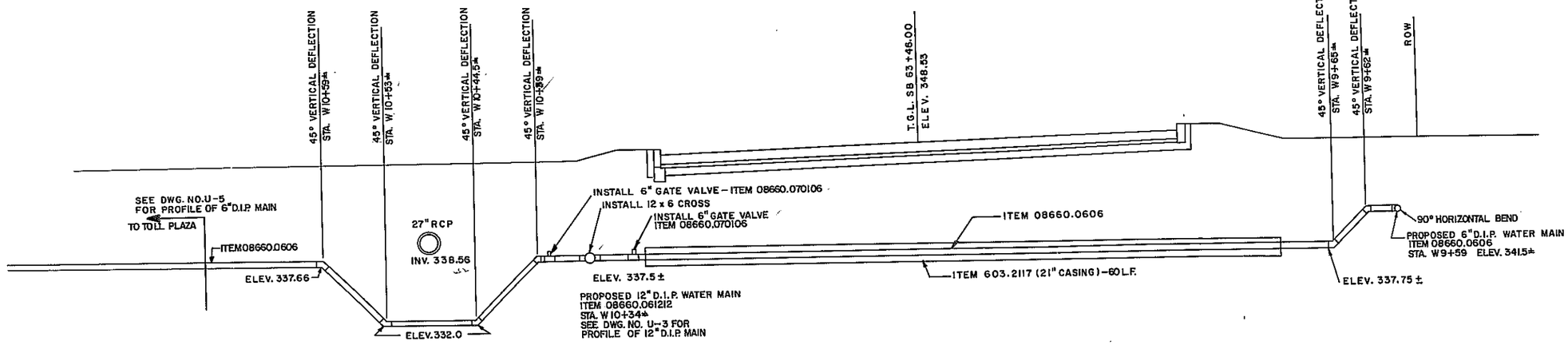
DRAWING No.	SCALE	DATE	REGION
U-6	1" = 5'	7/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

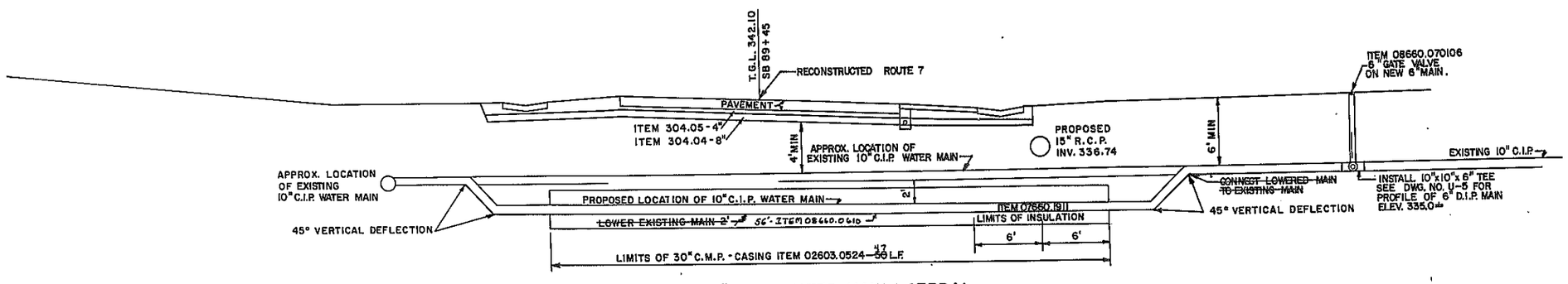
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1-88-2(10)	6821	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



WATER MAIN CROSSING ROUTE 7

SB 63+46
(READ IN DIRECTION OF STATIONING)



~~EXISTING~~ NEW 10" C.I.P. WATER MAIN LATERAL TO BE LOWERED

"SB" 89+45
(READ IN DIRECTION OF STATIONING)

REVISIONS

WATER MAIN CASING SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
U-7	1" = 5'	7/79	1

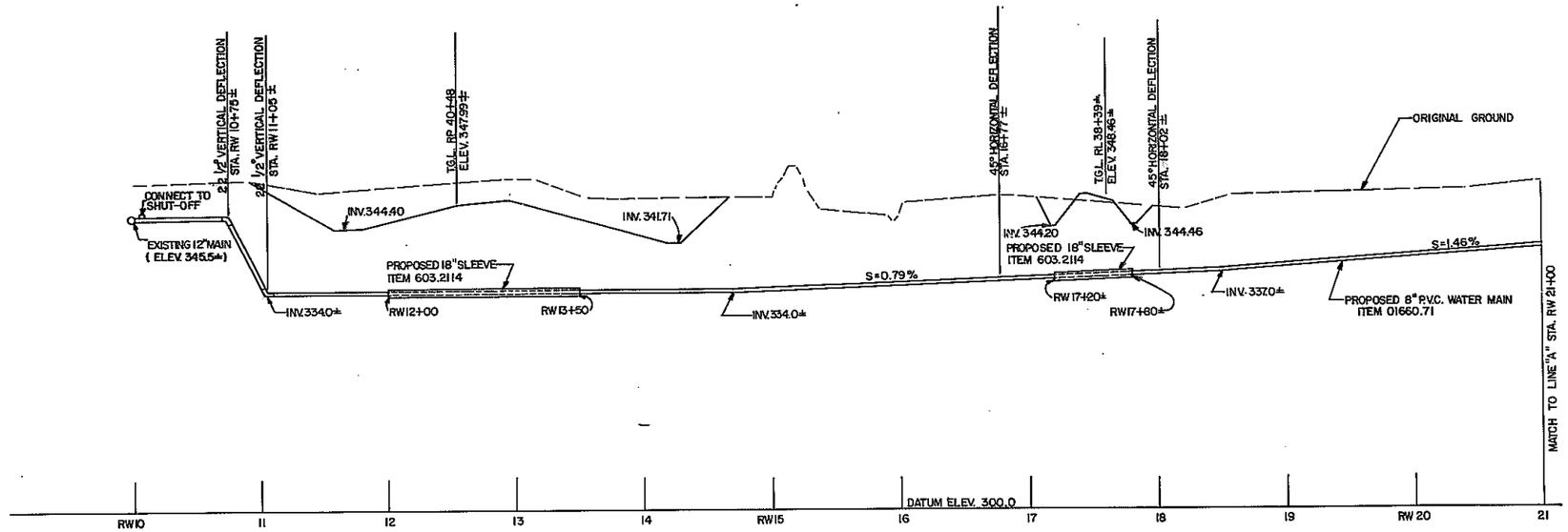
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

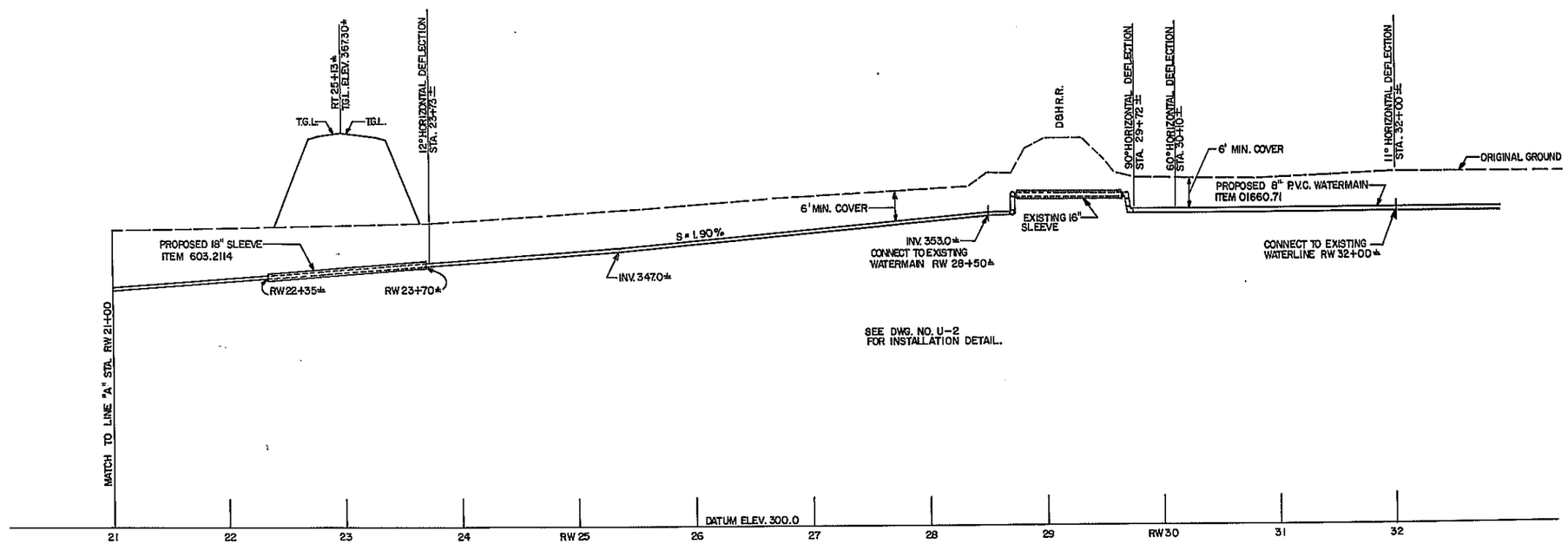
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	69	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY





RELOCATED 8" P.V.C. WATERLINE
OLD DUANESBURG RD. TO EDGECOMB STEEL

RELOCATED 8" P.V.C. WATER MAIN
OLD DUANESBURG RD. TO EDGECOMB STEEL

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
U-8	HORIZ. 1" = 50' VERT. 1" = 10'	6/79	REGION I

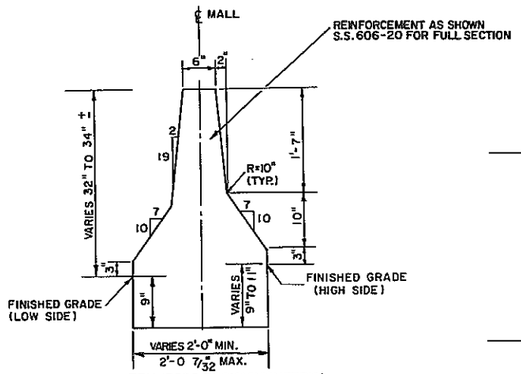
DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF

HC 47-2 (5/76)

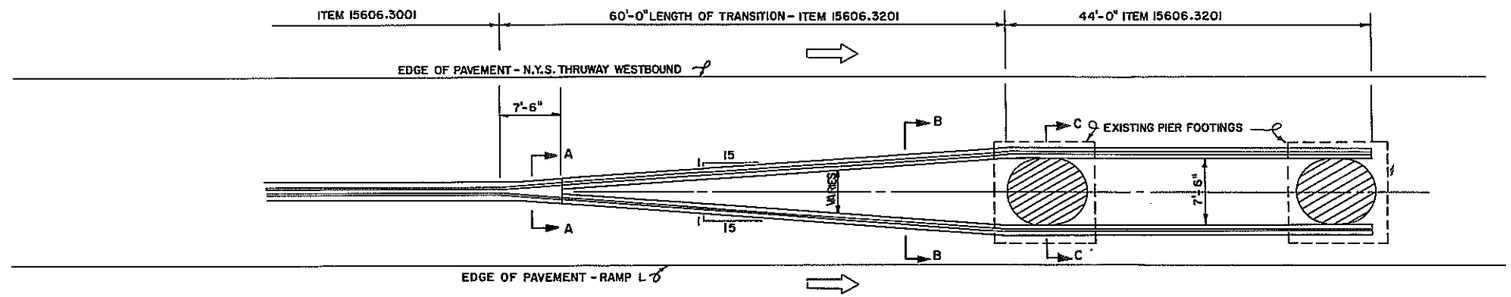
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	70	284

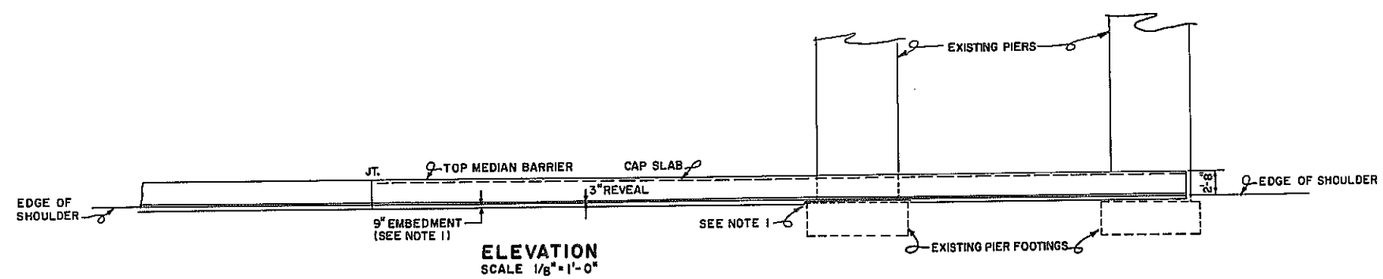
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



ITEM 15606.3001 (ASYMMETRIC)
CONCRETE MEDIAN BARRIER RAMP RT & RL
"RT" STA 10+80.00 TO "RT" STA 17+54.96
"RT" STA 24+85.14 TO "RT" STA 34+50.00
SCALE 1" = 1'-0"



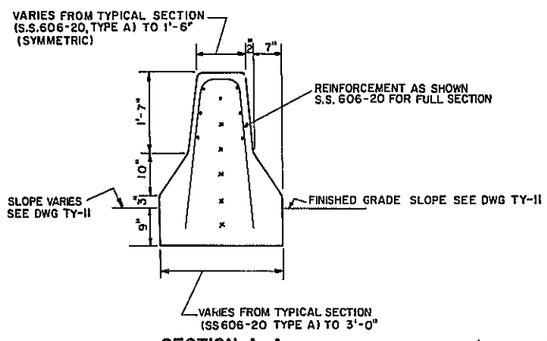
PLAN



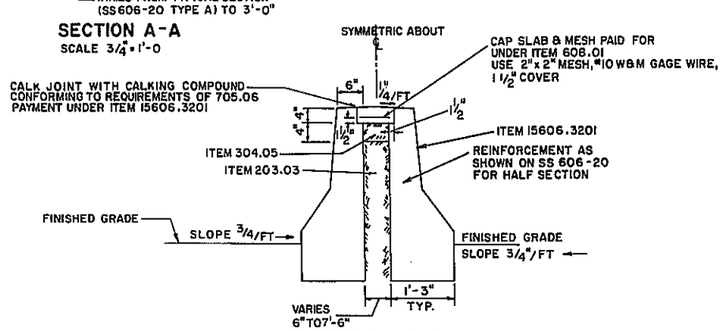
ELEVATION
SCALE 1/8" = 1'-0"

CONCRETE MEDIAN BARRIER TRANSITION AT D.&H.R.R. BRIDGE PIERS - RAMP L

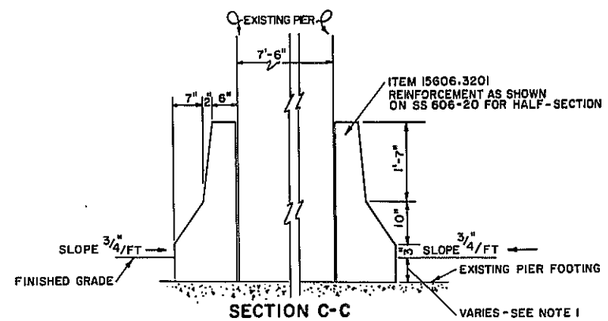
NOTES:
1. ELEVATION OF EXISTING PIER FOOTING ON RAMP 'L' ALLOWS LESS THAN "9" EMBEDMENT OF CONCRETE MEDIAN BARRIER. ACTUAL EMBEDMENT VARIES ALONG FOOTING.
2. CONCRETE MEDIAN BARRIER TRANSITION SHALL BE PAID FOR UNDER ITEM 15606.3201
3. CAP SLAB SHALL BE POURED AFTER ITEM 304.05 BACKFILL HAS BEEN PROPERLY PLACED & COMPACTED AS SIDEWALK TYPE CONSTRUCTION. ROUND TOP CORNERS OF CAP SLAB TO 1" AND CAULK JOINTS WITH COMPOUND CONFORMING TO SECTION 705.06



SECTION A-A
SCALE 3/4" = 1'-0



SECTION B-B
SCALE 3/4" = 1'-0"



SECTION C-C
SCALE 3/4" = 1'-0"

CONCRETE MEDIAN BARRIER AND PIER PROTECTION DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

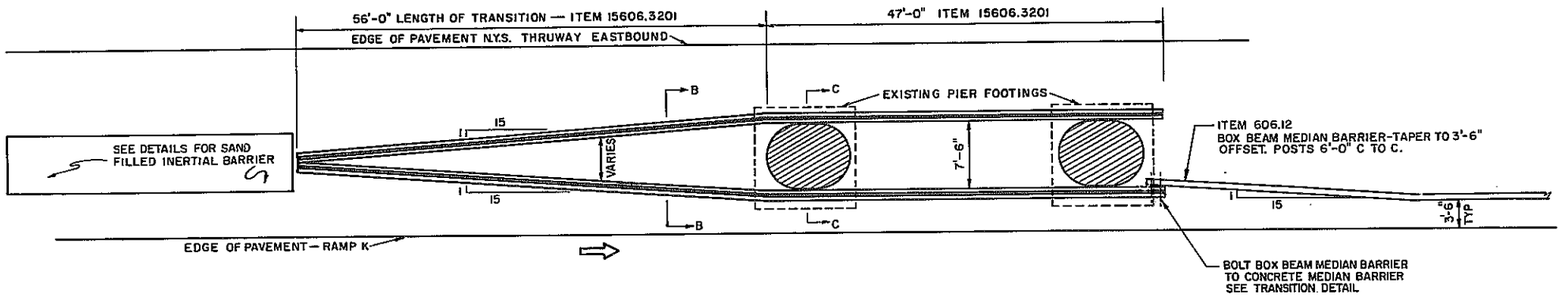
DRAWING No.	SCALE	DATE	REGION
CB-1	AS SHOWN	4/79	REGION 1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

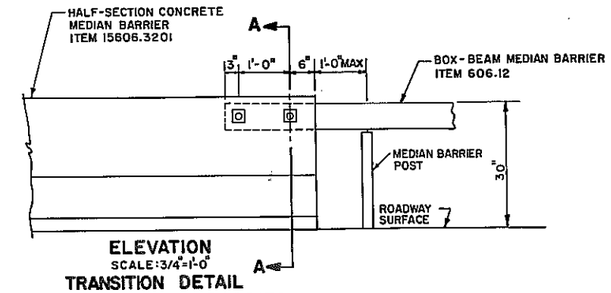
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	71	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

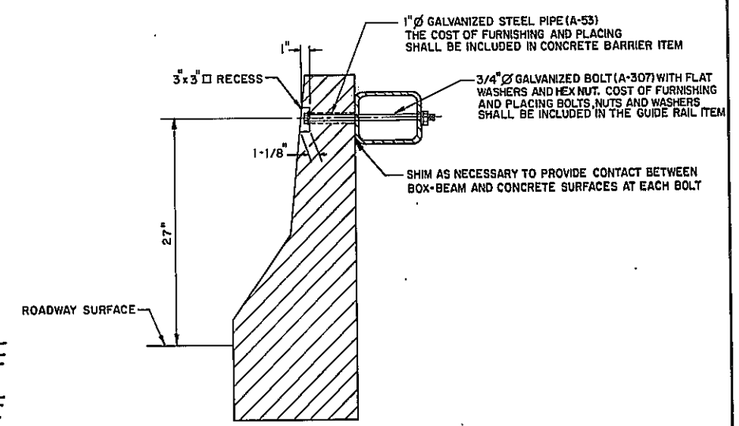


PLAN
CONCRETE MEDIAN BARRIER TRANSITION AT D. & H.R.R. BRIDGE PIERS - RAMP K
SCALE 1/8" = 1'-0"

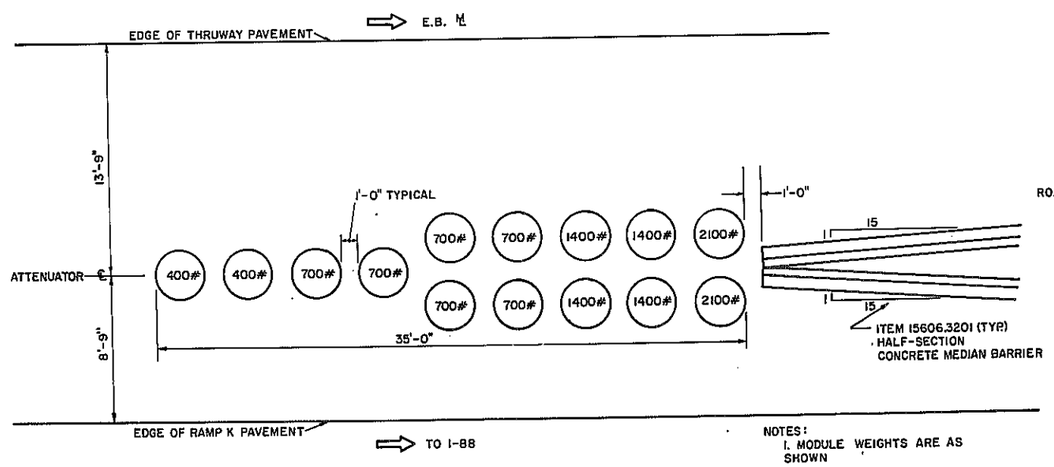
NOTE:
1. FOR SECTIONS B-B AND C-C SEE DETAIL AT RAMP L - DWG. CB-1.
2. ELEVATION SIMILAR TO RAMP L.
3. CAP SLAB SHALL BE POURED AFTER ITEM 304.05 BACKFILL HAS BEEN PROPERLY PLACED & COMPACTED AS SIDEWALK CONSTRUCTION. ROUND TOP CORNERS OF CAP SLAB TO 1" & CALK JOINTS WITH COMPOUND CONFORMING TO SECTION 705.06



ELEVATION
SCALE: 3/4" = 1'-0"
TRANSITION DETAIL
CONCRETE MEDIAN BARRIER
TO BOX-BEAM MEDIAN BARRIER



SECTION A-A
SCALE: 1-1/2" = 1'-0"
TRANSITION DETAIL



DETAILS OF SAND FILLED INERTIAL BARRIER
RAMP K AT D. & H. R.R. BRIDGE
SCALE: 1/4" = 1'-0"

NOTES:
1. MODULE WEIGHTS ARE AS SHOWN
2. ITEM NUMBERS ARE:

400# MODULE	15654.110201
700# MODULE	15654.1202
1400# MODULE	15654.1302
2100# MODULE	15654.1402

CONCRETE MEDIAN BARRIER
PIER PROTECTION DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

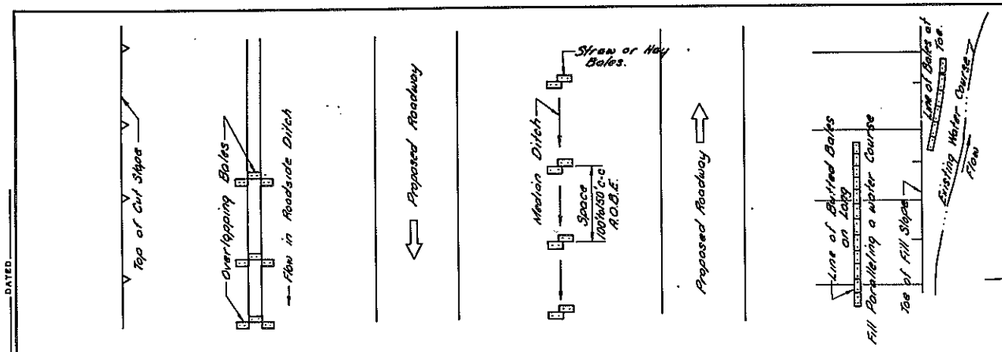
DRAWING No.	SCALE	DATE	REGION
CB-2	AS SHOWN	4/79	

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HE 47-2 (5/76)

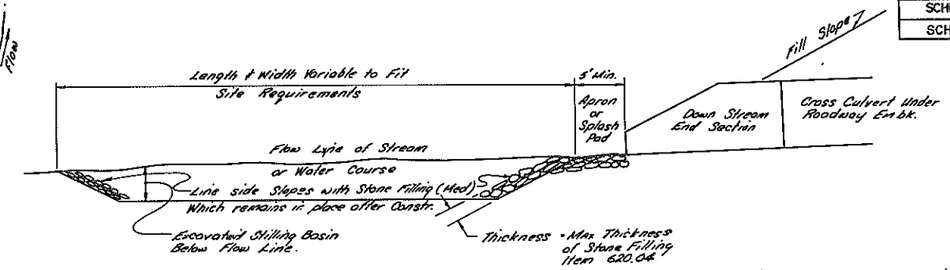
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	72	284

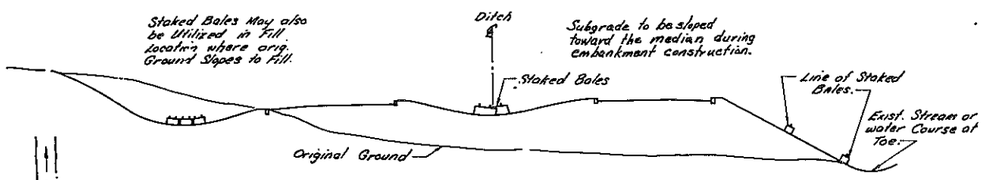
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



PLAN

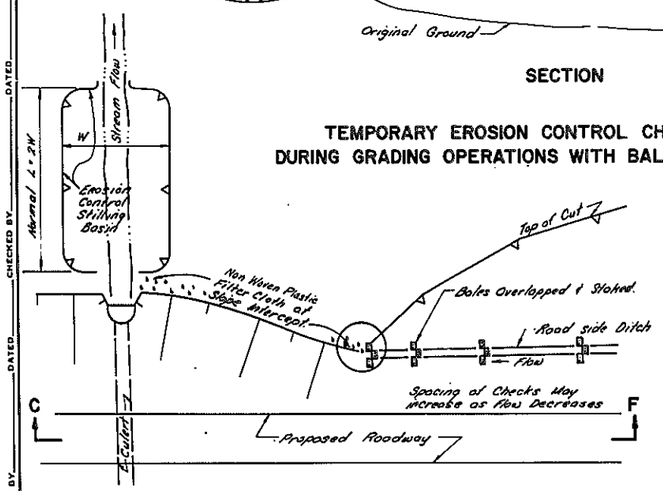


EROSION CONTROL STILLING BASIN

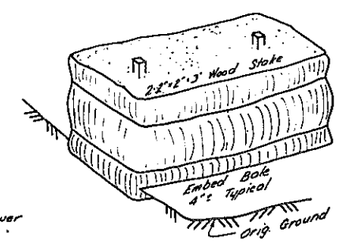


SECTION

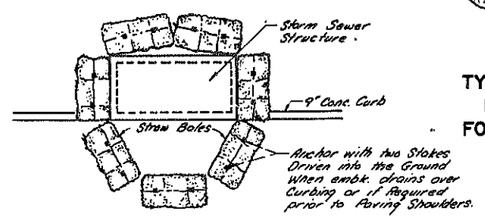
TEMPORARY EROSION CONTROL CHECKS
DURING GRADING OPERATIONS WITH BALED HAY OR STRAW



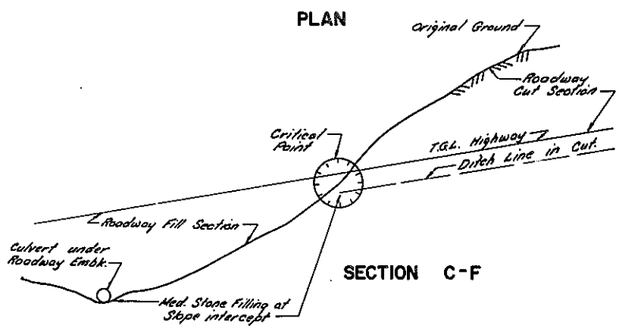
PLAN



TYPICAL BALE OF
HAY OR STRAW
FOR EROSION CHECK

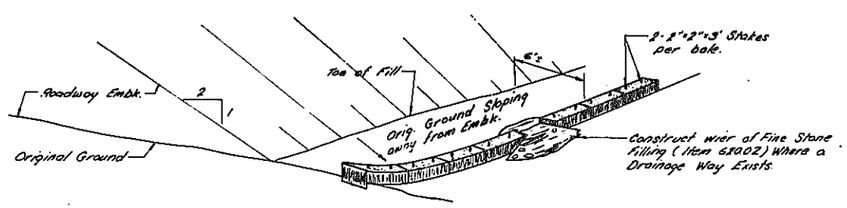


TEMPORARY CHECK AT
STORM SEWER INLETS



SECTION C-F

EROSION CONTROL AT CUT TO FILL SLOPE TRANSITION



BUTTED BALES AT TOE OF FILL

TYPICAL EROSION CONTROL MEASURES
IN ACCORDANCE WITH ITEM 209.01

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
PC-1	AS SHOWN	11/76	I

HC 476 (10-74)

DRAWING 44-131 27235

IN CHARGE OF ____ DESIGNED BY ____ DATED ____ CHECKED BY ____ DATED ____ REVIEWED BY ____ DATED ____

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	73	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY

GENERAL NOTES FOR SOIL EROSION & POLLUTION ABATEMENT

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT THROUGHOUT THE DURATION OF THIS CONTRACT IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO PROTECT THE WATERS OF THE MOHAWK KILL CREEK AND ITS TRIBUTARIES FROM WATER BORNE SEDIMENT OR POLLUTANTS ORIGINATING FROM ANY WORK DONE ON, OR IN SUPPORT OF THIS PROJECT.

IN ORDER TO ACCOMPLISH THIS THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 209 OF THE N.Y.S.D.O.T. STANDARD SPECIFICATIONS AND PERFORM THE FOLLOWING WORK:

1) THE SUBGRADE IS TO BE SLOPED TOWARD THE MEDIAN DURING EMBANKMENT CONSTRUCTION.

2) PLACE TEMPORARY DITCH CHECKS IN ALL ROADWAY AND OUTLET DITCHES AT 100 FOOT INTERVALS IMMEDIATELY UPON COMPLETION OF EXCAVATION OR INSTALL THE APPROPRIATE FINAL DITCH LININGS AS SHOWN IN THE PLANS OR ORDERED BY THE ENGINEER.

3) PROVIDE TEMPORARY CHANNELS LINED WITH PLASTIC OR SUITABLE MATERIAL WHILE CONSTRUCTING PERMANENT CULVERT CROSSINGS. INSTALL OR CONSTRUCT AS SHOWN ON THE PLAN OR ORDERED BY THE ENGINEER CULVERT INLET TRAPS, SEDIMENT BASINS OR POOLS AND DAMS. THESE APPURTENANCES SHALL BE PROVIDED AS AN INTEGRAL PART OF CONSTRUCTING A CULVERT AND SHALL BE MAINTAINED AND REPLACED AS REQUIRED. UPON COMPLETION OF CONTRACT CONSTRUCTION, ALL TRAPS, BASINS, POOLS AND DAMS SHALL BE REMOVED BY THE CONTRACTOR UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

4) THE CONTRACTOR SHALL TRIM AND SEED ALL CUT SLOPES AS SOON AS A MAXIMUM OF 40' OF CUT SLOPE IS COMPLETED OR AS ORDERED BY THE ENGINEER.

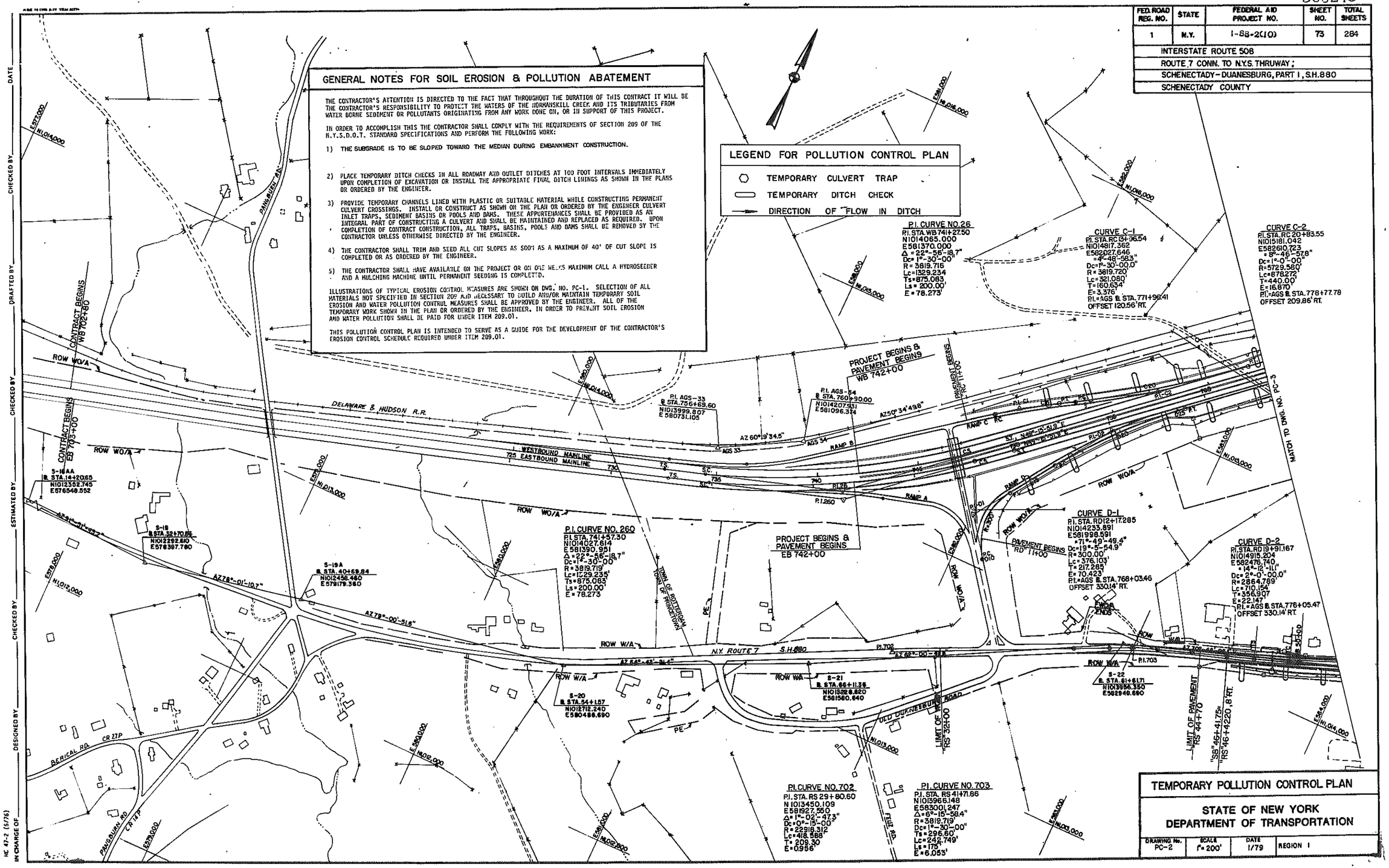
5) THE CONTRACTOR SHALL HAVE AVAILABLE ON THE PROJECT OR ON ONE WEEKS MAXIMUM CALL A HYDROSEEDER AND A MULCHING MACHINE UNTIL PERMANENT SEEDING IS COMPLETED.

ILLUSTRATIONS OF TYPICAL EROSION CONTROL MEASURES ARE SHOWN ON DWG. NO. PC-1. SELECTION OF ALL MATERIALS NOT SPECIFIED IN SECTION 209 AND NECESSARY TO BUILD AND/OR MAINTAIN TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL MEASURES SHALL BE APPROVED BY THE ENGINEER. ALL OF THE TEMPORARY WORK SHOWN IN THE PLAN OR ORDERED BY THE ENGINEER, IN ORDER TO PREVENT SOIL EROSION AND WATER POLLUTION SHALL BE PAID FOR UNDER ITEM 209.01.

THIS POLLUTION CONTROL PLAN IS INTENDED TO SERVE AS A GUIDE FOR THE DEVELOPMENT OF THE CONTRACTOR'S EROSION CONTROL SCHEDULE REQUIRED UNDER ITEM 209.01.

LEGEND FOR POLLUTION CONTROL PLAN

- TEMPORARY CULVERT TRAP
- TEMPORARY DITCH CHECK
- DIRECTION OF FLOW IN DITCH



TEMPORARY POLLUTION CONTROL PLAN

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PC-2	1" = 200'	1/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF

HC 47-2 (5/76)

D96243

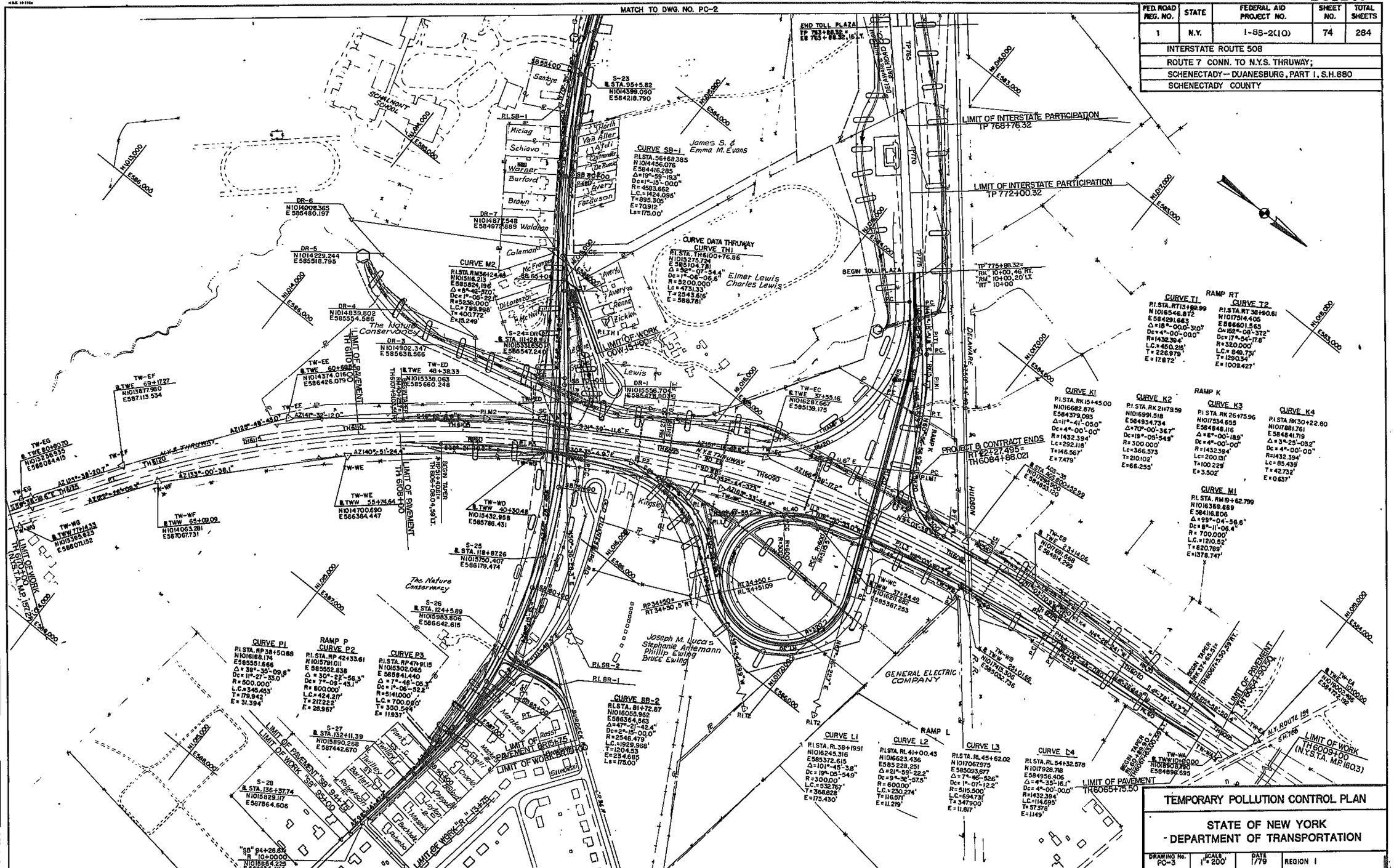
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	74	284

INTERSTATE ROUTE 508

ROUTE 7 CONN. TO N.Y.S. THRUWAY;

SCHENECTADY – DUANESBURG, PART I, S.H. 880

SCHENECTADY COUNTY



TEMPORARY POLLUTION CONTROL PLAN

STATE OF NEW YORK
- DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
PC-3	1" = 200'	1/79	REGION 1

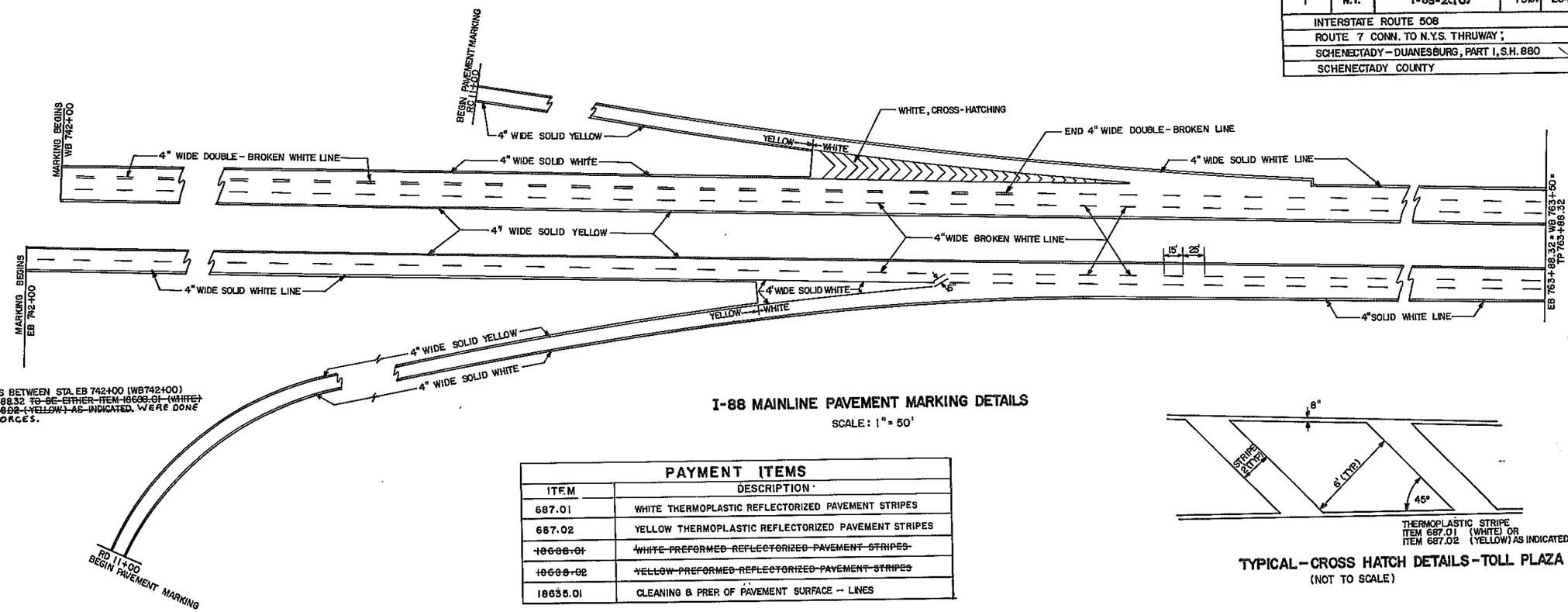
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	7521	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



NOTE: ALL MARKINGS BETWEEN STA. EB 742+00 (WB742+00) AND TP 763+88.32 ~~TO BE EITHER ITEM 18688.01 (WHITE) OR ITEM 18688.02 (YELLOW) AS INDICATED.~~ WERE DONE BY STATE FORCES.

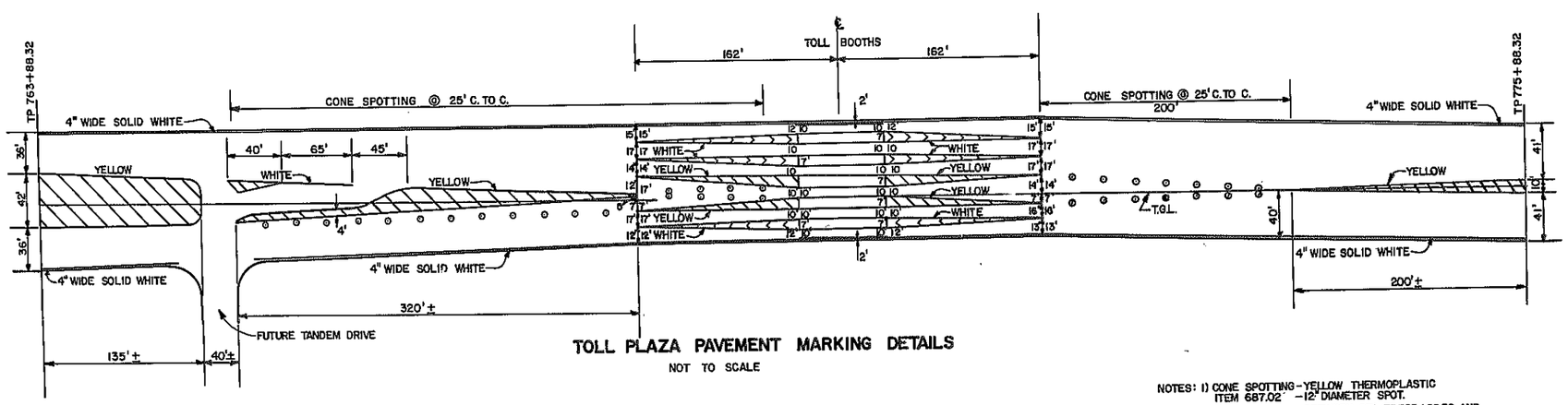
I-88 MAINLINE PAVEMENT MARKING DETAILS

SCALE: 1" = 50'

PAYMENT ITEMS	
ITEM	DESCRIPTION
687.01	WHITE THERMOPLASTIC REFLECTORIZED PAVEMENT STRIPES
687.02	YELLOW THERMOPLASTIC REFLECTORIZED PAVEMENT STRIPES
~~18688.01~~	~~WHITE PREFORMED REFLECTORIZED PAVEMENT STRIPES~~
~~18688.02~~	~~YELLOW PREFORMED REFLECTORIZED PAVEMENT STRIPES~~
18635.01	CLEANING & PREP. OF PAVEMENT SURFACE - LINES

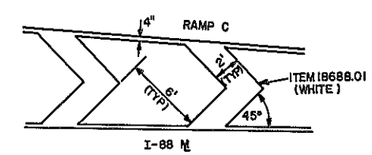
TYPICAL-CROSS HATCH DETAILS-TOLL PLAZA

(NOT TO SCALE)



TOLL PLAZA PAVEMENT MARKING DETAILS

NOT TO SCALE



CROSS-HATCH DETAILS RAMP C & I-88 GORE

(NOT TO SCALE)

NOTES: 1) CONE SPOTTING-YELLOW THERMOPLASTIC ITEM 687.02 -12" DIAMETER SPOT.
2) ALL MARKINGS BETWEEN STA. TP 763+88.32 AND TP 775+88.32 TO BE EITHER ITEM 687.01 OR ITEM 687.02 . AS INDICATED.
3) ITEM 18635.01 TO BE USED ON ALL PORTLAND CEMENT CONCRETE PAVEMENT PRIOR TO APPLICATION OF STRIPING.

REVISIONS

PAVEMENT MARKING DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PM-1	AS SHOWN	7/79	REGION I

DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

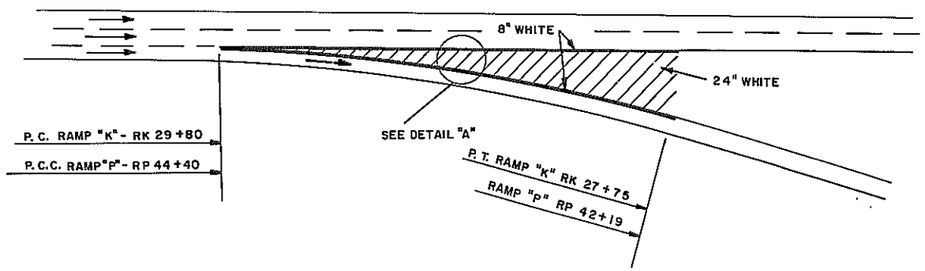
RE 47-2 (5/76)

D96243

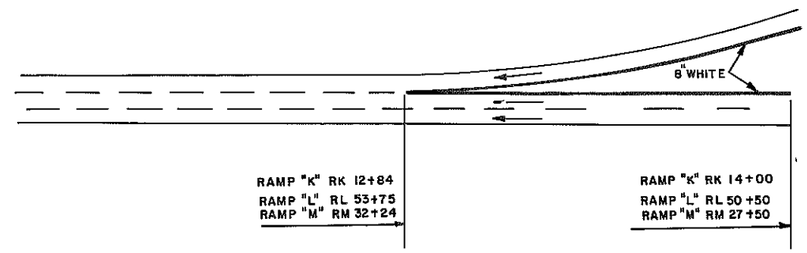
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-~~88~~-2(10)	76~~21~~	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

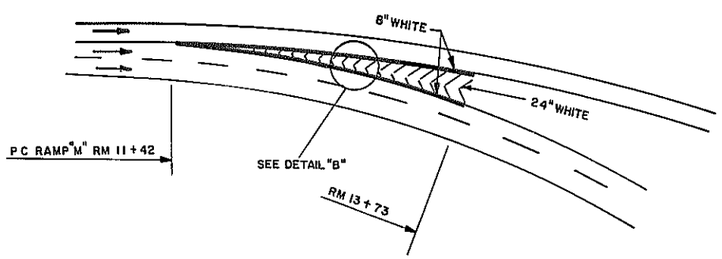
NOTES:
1. ALL GORE STRIPING TO BE ITEM 687.01 - N.A.
2. SEE DETAIL "C" FOR LOCATION OF PAVEMENT MARKINGS AT EDGE OF RAMP PAVEMENT
3. CONVENTIONAL EDGE STRIPING AND LANE MARKINGS ALONG RAMPS "RT", "K", "L", "M" AND "P" AND ALONG THE THRUWAY MAINLINE TO BE DONE BY OTHERS. ~~THIS ITEM INCLUDES ONLY THE 8" WIDE EDGE STRIPING AND CROSS - HATCHING WITHIN LIMITS INDICATED~~
4. ITEM 186350I TO BE USED ALONG PORTLAND CEMENT CONCRETE SECTION OF GORES FOR RAMPS M AND K AT RAMP RT. N.A.
5. ALL STRIPING AND MARKINGS EAST OF STA. TP 775+88.32 WERE DONE BY THRUWAY FORCES.



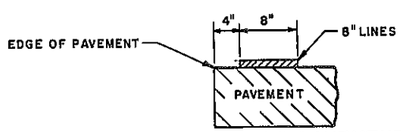
DIVERGING RAMPS AT THRUWAY MAINLINE



MERGING RAMPS AT THRUWAY MAINLINE AND RAMP "RT"

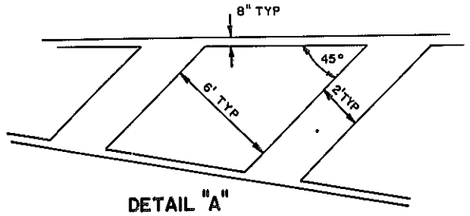


DIVERGING RAMP AT RAMP "RT"

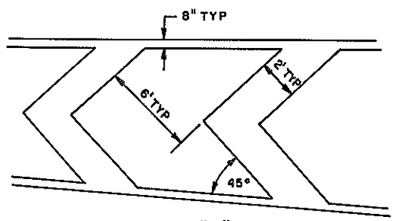


LOCATION OF PAVEMENT MARKINGS AT EDGE OF PAVEMENT

DETAIL "C"
NOT TO SCALE



DETAIL "A"
NOT TO SCALE



DETAIL "B"
NOT TO SCALE

PAYMENT ITEMS	
ITEM	DESCRIPTION
~~687.01~~	~~WHITE THERMOPLASTIC REFLECTIVE PAVEMENT STRIPES~~
~~186350I~~	~~CLEANING & PREP. OF PAVEMENT SURFACE — LINES~~

REVISIONS

PAVEMENT MARKING DETAILS - GORES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

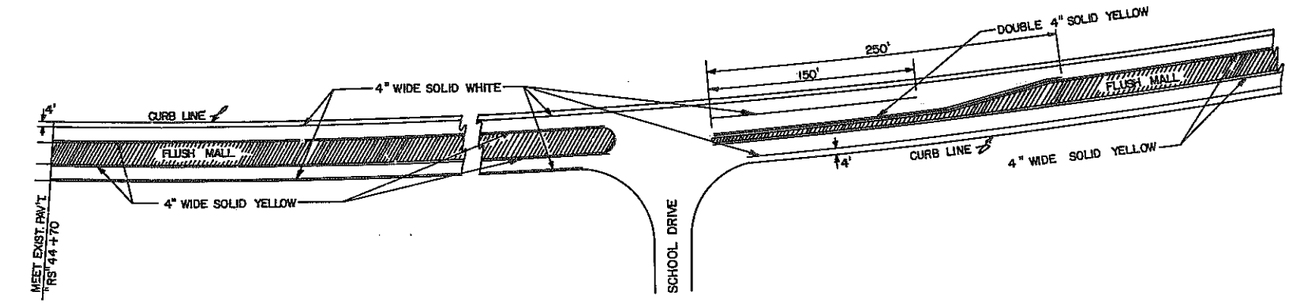
DRAWING No.	SCALE	DATE	REGION
PM - 2	NONE	7/79	1

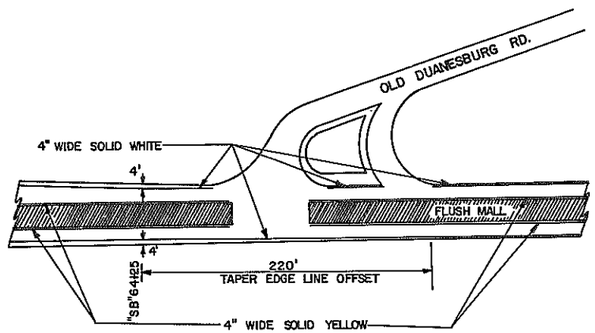
DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
BC 47-2 (5/76)

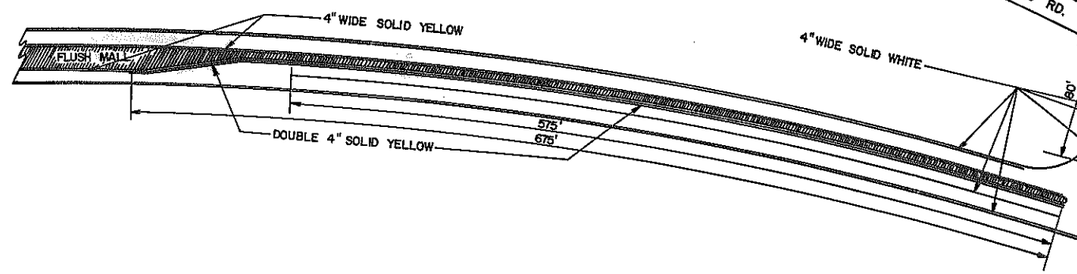
D96243

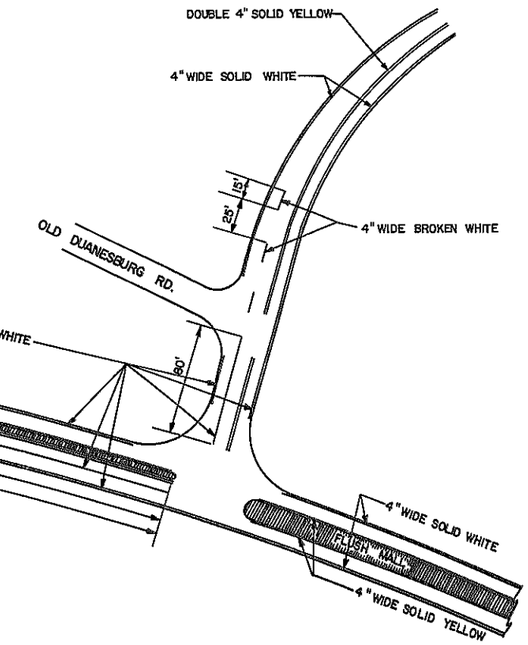
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	77	284

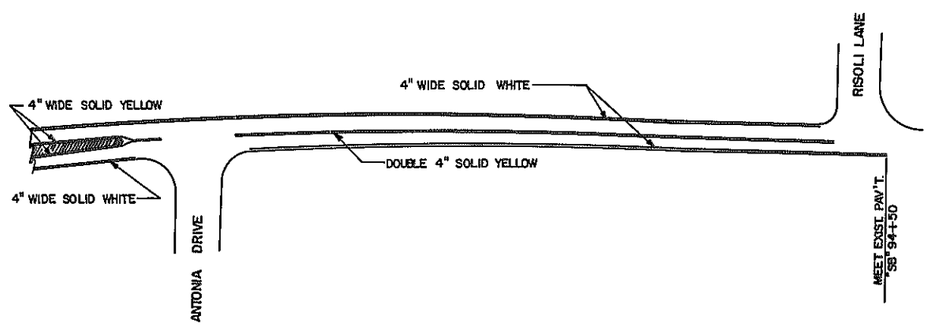
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY–DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY











ITEM NO.	DESCRIPTION	PAY UNIT
687.01	WHITE THERMOPLASTIC REFLECTORIZED PAVEMENT STRIPES	L.F.
687.02	YELLOW THERMOPLASTIC REFLECTORIZED PAVEMENT STRIPES	L.F.

PAVEMENT MARKING DETAILS– ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PM-3	1"=50'	7/79	REGION I

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF

RE 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	78 R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY – DUANESBURG, PART I, S.H. 880
SCHENECTADY CO.

SCHEDULE A

LOCATION AND QUANTITY OF PAYMENT ITEMS

STATION TO STATION	SIDE	ITEM	QUANITY & UNIT	REMARKS
CLEARING&GRUBBING SB 45+00 TO SB95+00 INCLUSIVE I-88 M.L., EB742+00 TO 763+88.32	L&R	201.0601	L.S.NEC.	ALL AREAS WITHIN THE LIMITS OF WORK WHERE VEGETATION, STUMPS, TREES (OTHER THAN THOSE TREES SPECIFIED UNDER ITEM614.03"TREE REMOVAL"AND OTHER OBJECTS OR DEBRIS IN CONFLICT WITH PROPOSED WORK AREAS AND A.O.B.E. NECESSARY CLEARING & GRUBBING OF EASEMENT AREAS SHALL BE PAID UNDER ITEM 201.0601
N.Y.S. THRUWAY TOLL PLAZA	L&R			
RAMPS RC,RD,RK, RL,RM,RP,RT	L&R			
APPLYING SOIL CONDITIONERS	L&R	610.01	~~6.4~~ 5.64 TONS	ALL AREAS SPECIFIED TO RECEIVE THE CROWN-VETCH SEED MIXTURE AND A.O.B.E.
SEE STATIONS FOR 610.02 SPECIAL NOTE				
SEEDING	L&R	610.02	~~42~~ 54.87 AC.	ALL DISTURBED AREAS WITHIN THE LIMITS OF WORK A.O.B.E.
FOR LIMITS SEE ITEM 201.0601				
TP 769+00 - 775+68 RT 15+00 TO 21+50 RT 23+50 TO 29+00 RT 32+00 TO 34+50 RM 10+00 TO 22+50 RL 34+51 TO 61+00 RP 34+50 TO 51+00 RK 20+00 TO 24+00	R L&R ↓ R L L&R		SPECIAL NOTE	CROWNVETCH SEED MIXTURE SPECIFIED IN SCH."D" SHALL BE SUBSTITUTED FOR THE NORMAL SEED MIXTURE ON ALL SLOPES 1 ON 3 OR GREATER WITHIN THESE AREAS, A.O.B.E.
PLANTING	L&R	611.	~~32~~ 101 EA.	AS SHOWN ON THE PLANS AND A.O.B.E.
TOPSOIL	L&R	613.0101	~~9600~~ 14055.3 C.Y.	AS SHOWN ON THE PLANS AND A.O.B.E.
~~SELECTIVE THINNING~~ ~~STA. 760 TO 768~~ ~~RT 23+50 TO 34+51~~ ~~RL 34+50 TO 43+10~~	~~L&R~~	~~614.02~~	~~6.5 AC~~	~~AS INDICATED BY STA. THIN TO 50' FROM THE FACE OF THE WOODS AND A.O.B.E.~~
WATERING PLANTS	L&R	615.03	~~3~~ 6.18 MGAL.	ALL TREES, SHRUBS AND SOD. A.O.B.E.
* SODDING	L&R	612.01	~~434~~ 195.8 S.Y.	SEE TYPICAL SECTIONS AND BRIDGE PLANS
TREE REMOVAL	L&R	614.03	~~42~~ 38 EA.	AS INDICATED BY STATION A.O.B.E.

STATION TO STATION	SIDE	ITEM	STATION TO STATION	SIDE	ITEM
STA. 47+66	L	614.0344	STA. 68+74	L	.0334
48+18	L	.0394	68+81	L	.0334
48+66	L	.0394	68+88	L	.0334
49+38	L	.0354	68+90	L	.0344
51+30	L	.0394	68+94	L	.0334
51+85	L	.0394	69+00	L	.0344
52+28	L	.0394	69+30	L	.0354
52+74	L	.0364	69+62	L	.0334
~~54+28~~ 55+90	R	.0394	69+90	L	.0334
~~55+47~~	~~R~~	~~.0354~~	69+91	L	.0334
~~55+70~~	~~R~~	~~.0354~~	70+32	L	.0354
~~55+94~~	~~R~~	~~.0354~~	~~70+54~~	~~L~~	~~.0354~~
~~56+16~~	~~R~~	~~.0354~~	70+50	L	.0334
~~56+62~~ 60+90	~~R~~L	.0394	66+75	L	.0364
~~57+13~~ 64+25	~~R~~L	.0344			
~~57+71~~ 70+80	~~R~~L	.0344			
~~65+19~~ 68+72	~~R~~L	.0334			
~~65+24~~	~~L~~	~~.0344~~			
65+57	L	.0344			
65+74	L	.0334			
65+87	L	.0334			
66+00	L	.0344			
66+05	L	.0344			
66+12	L	.0344			
66+46	L	.0344			
66+59	L	.0384			
66+82	L	.0364			
67+44	L	.0364			
67+83	L	.0354			
68+70	L	.0344			

* ITEM OUT OF ORDER

SCHEDULE B

DETAIL SPECIFICATIONS FOR 1978 D.O.T. STANDARD SPECIFICATIONS

SPECIFICATION SECTION	DESCRIPTION
201.0601	CLEARING AND GRUBBING AREAS: SEE SCHEDULE "A" 201.0601
-3.03A	BACKFILL MATERIAL FOR STUMP HOLES SHALL BE TOPSOIL AS APPROVED FOR ITEM 613.0101. SEEDING MATERIALS AND SEEDING FOR BACKFILLED STUMP HOLES SHALL BE AS SPECIFIED FOR ITEM 610.02 SEEDING
610.01 -1.01 2.02	APPLYING SOIL CONDITIONERS AREAS: SEE SCHEDULE "A" 610.01 LIMESTONE: 713-02 RATE: (1) ONE TON PER ACRE SEASON: APRIL 1 TO NOVEMBER 1
610.02 -1.02	SEEDING AREAS: SEE SCHEDULE "A" 610.02 AND SPECIAL NOTE SCHEDULE "A" 610.02
-2.02	SEEDS: 713-04 SEE SCHEDULE "D" AND SPECIAL NOTE SCHEDULE "D" FERTILIZER: 713-03 TYPE NO. 3 (10-6-4) MULCH: 713-19 STRAW MULCH ANCHORAGE: CHEMICAL MULCH BINDER AS APPROVED BY THE REGIONAL LANDSCAPE ARCHITECT
3.02A	SEASON: APRIL 1 TO JUNE 15 AND AUGUST 15 TO OCTOBER 1 UNLESS OTHERWISE APPROVED BY THE REGIONAL LANDSCAPE ARCHITECT
-3.02C	RATE OF SEED: 70LBS. P.L.S. PER ACRE, SEE SPECIAL NOTE: SCHEDULE "D" AND SCHEDULE "A" FOR AREAS WITH A RATE OF SEED OF 60LBS.P.L.S. PER ACRE RATE OF FERTILIZER: 80LBS. OF NITROGEN PER ACRE
-3.02D	RATE OF MULCH: 2 TO 3 TONS PER ACRE TO COVER GROUND TO THE SATISFACTION OF THE E.I.C. RATE OF MULCH ANCHORAGE: CHEMICAL MULCH BINDERS AT THE MANUFACTURER'S RECOMMENDED RATES
611 -1.01 2.01 -2.02	PLANTING LOCATIONS: SEE SCHEDULE "A" 611. PLANTS: 713 06 SEE SCHEDULE "C" PLANTING MATERIALS: TOPSOIL: 713-01 FERTILIZER: 713-03 TYPE NO.3(10-6-4) AND TYPE NO. 8 BONEMEAL OR APPROVED SUBSTITUTE ORGANIC: 713-16 HUMUS OR PEAT MULCH: 713 05 WOODCHIPS. SEE SPECIAL NOTE SCHEDULE "B" WRAPPING: 713-08 PAPER WATER: 712-01
3.01A	PLANTING SEASON: (UNLESS OTHERWISE APPROVED BY THE REGIONAL LANDSCAPE ARCHITECT) SPRING: APRIL 10 TO MAY 20 FALL: DECIDUOUS OCT.1 TO NOV. 15
-3.02E	713-03 TYPE NO.3(10-6-4) SHALL BE SPREAD OVER THE AREA OF THE PLANT PIT AFTER PLANTING AT THE RATE OF 1 LBS. PER S.Y. OF PLANT PIT AREA 713-03 TYPE NO.8(BONEMEAL)SHALL BE MIXED WITH THE PLANTING SOIL AT THE RATE OF 5LBS.PER C.Y. OF BACKFILL.(RATE OF SUBSTITUTE SHALL BE APPROVED BY THE REGIONAL LANDSCAPE ARCHITECT)
3.03C	DEPTH OF WOODCHIP MULCH: 3 INCHES OVER ALL TREE PITS
-3.05	ALL PLANTS SHALL BE WATERED AT BI-WEEKLY INTERVALS FROM APRIL 1 TO OCT. 1 AT THE RATE SPECIFIED UNDER ITEM 615.03 WATERING PLANTS AND SOD, UNLESS OTHERWISE DIRECTED.
613.0101	TOPSOIL AREAS: SEE SCHEDULE "A" 613.0101 TOPSOIL THICKNESS: 3 INCHES
~~614.02~~ ~~-1.02~~	~~SELECTIVE THINNING~~ ~~AREAS: SEE SCHEDULE "A" 614.02~~ ~~MATERIALS: TORDON 101R OR APPROVED EQUAL, PLUS AN APPROVED DYE~~
614.03 1.03	TREE REMOVAL LOCATIONS AND SIZES SEE SCHEDULE "A"614.03, SCHEDULE"C" AND A.O.B.E.
3.03A	NOTE: BACKFILL MATERIAL FOR STUMP HOLES SHALL BE TOPSOIL AS APPROVED FOR ITEM 613.0101, SEEDING MATERIALS AND SEEDING FOR BACKFILLED STUMP HOLES SHALL BE SPECIFIED FOR ITEM610.02SEEDING

SCHEDULE C

DETAIL SPECIFICATIONS FOR PLANTS

PLANT ITEM NUMBER	QUANTITY	GENUS & SPECIES	SYMBOL	COMMON NAME	SIZE	ROOTS	BALL DIA. ROOT SPRD.	PIT	SOURCE	REMARKS
				MAJOR DECIDUOUS TREES						
611 0104 63	8			RED MAPLE	2½"-3"	B:B			NG	
611 0110 63	8			SUGAR MAPLE	2½"-3"	B:B			NG	
611 0126 63	11			GREEN ASH	2½"-3"	B:B			NG	
611 0133 64	2	GLEDITSIA TRIACANTHOS, SHDMSTR., SKYL. IMP., OR EQUAL	GTS	SHDMSTR., SKYL., IMP 2 OR EQUAL HONEY LOCUST	2 -3"	B&B	28"	52"	NG	SPECIMEN QUAL.
611 0341 43	3			AUSTRIAN PINE	4'-5'	B:B			NG	
611 0341 63	29			AUSTRIAN PINE	6'-7'	B:B			NG	
611 0344 63	10			SCOTS PINE	6'-7'	B:B			NG	
				DECIDUOUS SHRUBS						HEDGE MATER.
611 0490 62	3	VIBURNUM DENTATUM	VD	ARROWWOOD VIBURNUM	3-4'HT	B&B	12"	24"	NG	
611 0496 62	2	VIBURNUM SIEBOLDI	VS	SIEBOLD VIBURNUM	3-4'HT	B&B	12"	24"	NG	
				EVERGREEN SHRUBS						
611 0540 31	4	AZALEA YEDOENSIS VAR. POUKHANENSIS	AZ	AZALEA POUKHANENSIS	18-24"	B&B	10"	20"	NG	
611 0542 41	2	RHODODENDRON CATAWBIENSE VAR. ROSEUM ELEGANS	RE	RHODODENDRON VAR. ROSEUM ELEGANS	2½-3'HT	B&B	14"	28"	NG	
611 0551 31	19	TAXUS CUSPIDATA	TC	JAPANESE SPREADING YEW	18-24"	B&B	10"	20"	NG	

PLANT ITEM NUMBER	QUANTITY	DESCRIPTION	TREE REMOVAL
614 0334	~~10~~ 11	TREE REMOVAL OVER 12" TO 18"DBH	(STUMPS COMPLETELY GRUBBED)
614 0344	~~12~~ 11	TREE REMOVAL OVER 18" TO 24"DBH	(STUMPS COMPLETELY GRUBBED)
614 0354	~~3~~ 4	TREE REMOVAL OVER 24" TO 36"DBH	(STUMPS COMPLETELY GRUBBED)
614 0364	~~2~~ 4	TREE REMOVAL OVER 36" TO 48" DBH	(STUMPS COMPLETELY GRUBBED)
614 0384	1	TREE REMOVAL OVER 60" TO 72"DBH	(STUMPS COMPLETELY GRUBBED)
614 0394	7	TREE REMOVAL EXISTING STUMPS	(STUMPS COMPLETELY GRUBBED)

–SCHEDULE "B" CONTINUED–

SPECIFICATION SECTION	DESCRIPTION
615.03 -3.05	WATERING PLANTS AND SOD LOCATIONS: SEE SCHEDULE "A" 615.03 PLANTS SHALL BE WATERED AS SPECIFIED IN 611-3.05(SCHEDULE "B") AT THE RATE OF 10GALLONS PER TREE PER WATERING AND AT THE RATE OF 5GALLONS PER SHRUB PER WATERING, UNLESS OTHERWISE DIRECTED
* 612.01 -1.01 -2.01C -3.01A -3.01H	SODDING AREAS: SEE SCHEDULE "A" 612.01 SOD: 713-14 TYPE "B" SEASON: APRIL 1 TO JUNE 15 AND AUGUST 1 TO OCTOBER 1. UNLESS OTHERWISE APPROVED BY THE REGIONAL LANDSCAPE ARCHITECT. SOD SHALL BE WATERED UNDER ITEM 615.03 A MINIMUM OF 4 WEEKS AFTER INSTALLATION A.O.B.E.

* ITEM OUT OF ORDER

→ SPECIAL NOTE: THE CONTRACTOR'S ATTENTION IS DIRECTED TO DRAWING NO. L-2 SHRUB BED DETAIL, FOR SCREENED GRAVEL MULCH USED IN THIS AREA.

→ SPECIAL NOTE: THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE DRAWING NO. L-2, RODENT PROTECTION DETAIL, AND NOTE. RODENT PROTECTION SHALL BE PROVIDED FOR ALL MAJOR, MINOR DECIDUOUS TREES AND EVERGREEN TREES, DECIDUOUS SHRUBS AND EVERGREEN SHRUBS. THE COST OF RODENT PROTECTION SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 611.–

REVIEWED AND APPROVED BY:
J. Scott Lewandon
REGIONAL LANDSCAPE ARCHITECT
7/18/79
DATE

KEY TO ABBREVIATIONS

B&B – BALLED AND BURLAPPED	NG – NURSERY GROWN
B&P – BALLED AND PLATFORMED	PG – POT GROWN (CONTAINER GROWN)
BR – BARE ROOT	DBH – DIAMETER BREAST HIGH (4'–6" ABOVE GROUND)
C – COLLECTED	
FG – FIELD GROWN	P.L.S. – PURE LINE SEED
P – PLANTATION GROWN	

SCHEDULE D

DETAIL SPECIFICATIONS FOR SEEDS

A - MIN. GERMINATION C - POUNDS PURE LIVE SEED PER ACRE
B - MIN. % GERMINATION AND HARD SEED

NAME	VARIETY	A	B	C
RED FESCUE (FESTUCA RUBRA)	COMMERCIAL	85		30
KENTUCKY BLUEGRASS (POA PRATENSIS)	COMMERCIAL	75		[illegible]
PERENNIAL RYEGRASS (LOLIUM PERENNE)	COMMERCIAL	90		15
TOTAL LBS.P.L.S./AC.				70

SPECIAL NOTE: THE FOLLOWING SEED MIXTURE SHALL BE USED ON ALL SLOPES 1 ON 3 OR GREATER BETWEEN STA.TP769+00 TO 775+68, RT15+00 TO 21+50, RT23+50 TO 29+00, RT32+00 TO 34+50, RM10+00 TO 22+50, RL34+51 TO 61+00, RP 34+50 TO 51+00, RK20+00 TO 24+00

NAME	VARIETY	A	B	C
RED FESCUE (FESTUCA RUBRA)	COMMERCIAL	85		30
PERENNIAL RYEGRASS (LOLIUM PERENNE)	COMMERCIAL	90		15
CROWN VETCH (CORONILLA VARIA)	COMMERCIAL	55	80	15
TOTAL LBS.P.L.S./AC.				60

SUMMARY

PAY ITEM	TOTAL QUANTITY	NAME OF PAY ITEM
201.0601	L.S.NEC.	CLEARING AND GRUBBING
610.01	~~6.4~~ TON 5.64	APPLYING SOIL CONDITIONERS
610.02	~~42~~ ACRE 54.87	SEEDING
611.01	~~2~~ EA. 29	PLANTING MAJOR DEC. TREES
611.03	42 EA.	
611.04	5 EA.	PLANTING DEC. SHRUBS
611.05	25 EA.	PLANTING EVERGREEN SHRUBS
613.0101	~~9600~~ C.Y. 14055.3	TOPSOIL
~~614.02~~	~~6.5 AC.~~	~~SELECTIVE THINNING~~
614.03	~~42~~ EA. 38	TREE REMOVAL
615.03	~~3~~ MGAL. 6.18	WATERING PLANTS & SOD
612.01	~~434~~ S.Y. 195.8	SODDING *

* ITEM OUT OF ORDER

REVISIONS

LANDSCAPE DEVELOPMENT SHEET

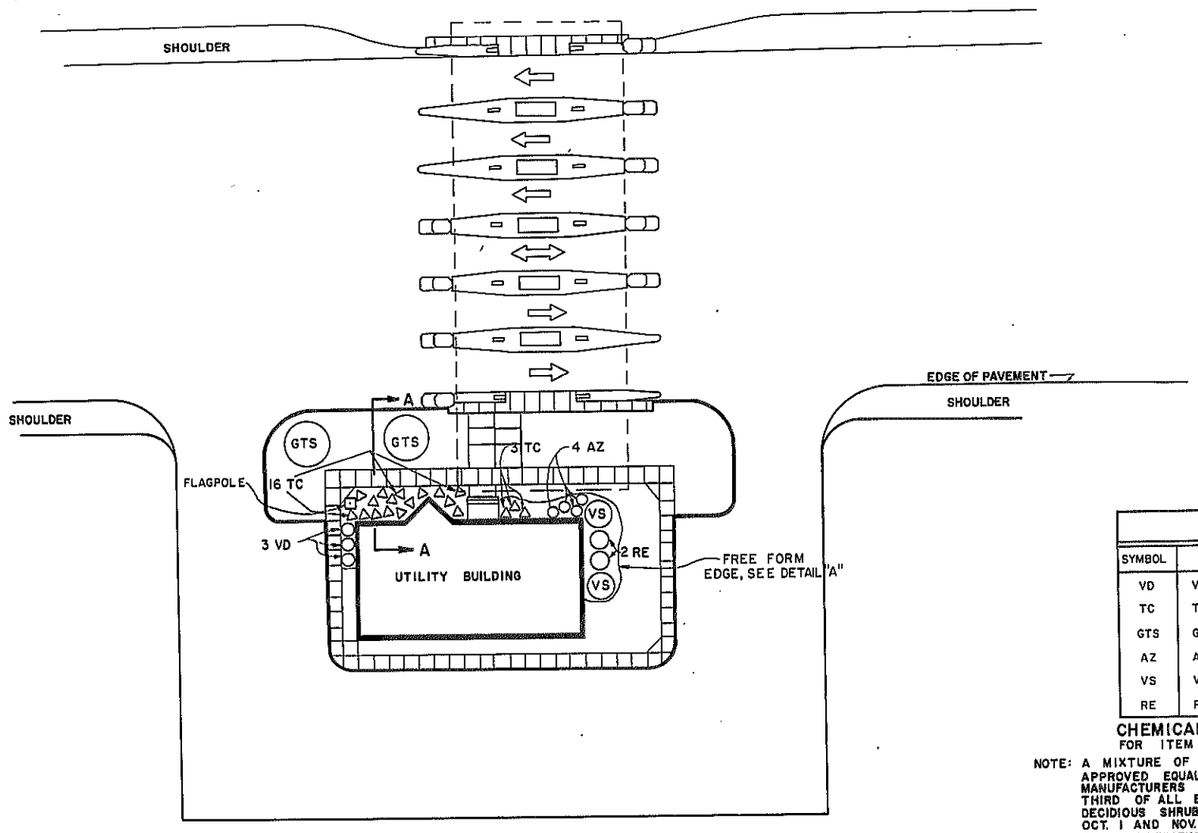
DWG. NO. L-1

HC 47-2 (5/76)

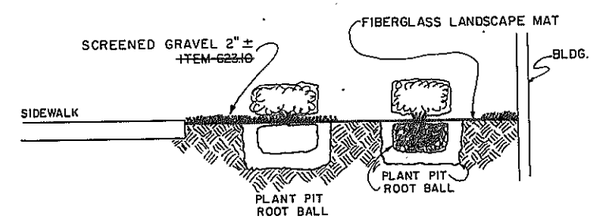
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	79(1	284

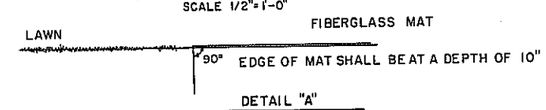
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S THRUWAY
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



NOTE: THE COST OF THE FIBERGLASS LANDSCAPE MAT SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 611.04 & 611.05



SECTION A–A
SCALE 1/2"=1'-0"

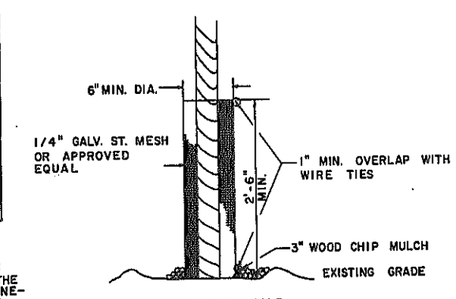


DETAIL "A"
SCALE 1/2"=1'-0"

PLANT KEY		
SYMBOL	BOTANICAL NAME	QUANTITY
VD	VIBURNUM DENTATUM	3
TC	TAXUS CUSPIDATA	19
GTS	GLEDITSIA TRIACANTHOS SPECIMEN	2
AZ	AZALEA POUKHANENSIS	4
VS	VIBURNUM SIEBOLDI	2
RE	RHODODENDRON CATAWBIENSE	2

CHEMICAL RODENT PROTECTION
FOR ITEM 611.04 AND .05

NOTE: A MIXTURE OF ARASAN 42-S AND RHOPLEX AC-33 OR APPROVED EQUALS SHALL BE MIXED AND APPLIED AT THE MANUFACTURERS RECOMMENDED RATES TO THE LOWER ONE-THIRD OF ALL EVERGREEN TREES, EVERGREEN SHRUBS AND DECIDIOUS SHRUBS. THIS MIXTURE SHALL BE APPLIED BETWEEN OCT. 1 AND NOV. 1. THE MIXTURE SHALL BE APPLIED WHEN THE TEMPERATURE IS ABOVE 40°F AND WHEN WEATHER CONDITIONS WOULD ALLOW PROPER APPLICATION A.O.B.E. THE COST OF THE CHEMICAL RODENT PROTECTION SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 611.04 AND .05



NOT TO SCALE

RODENT PROTECTION DETAIL

FOR ITEM 611.01
NOTE: THE COST OF THE RODENT PROTECTION SHALL BE INCLUDED IN THE BID PRICE FOR ITEM 611.01

REVISIONS

UTILITY BUILDING
LANDSCAPE PLAN

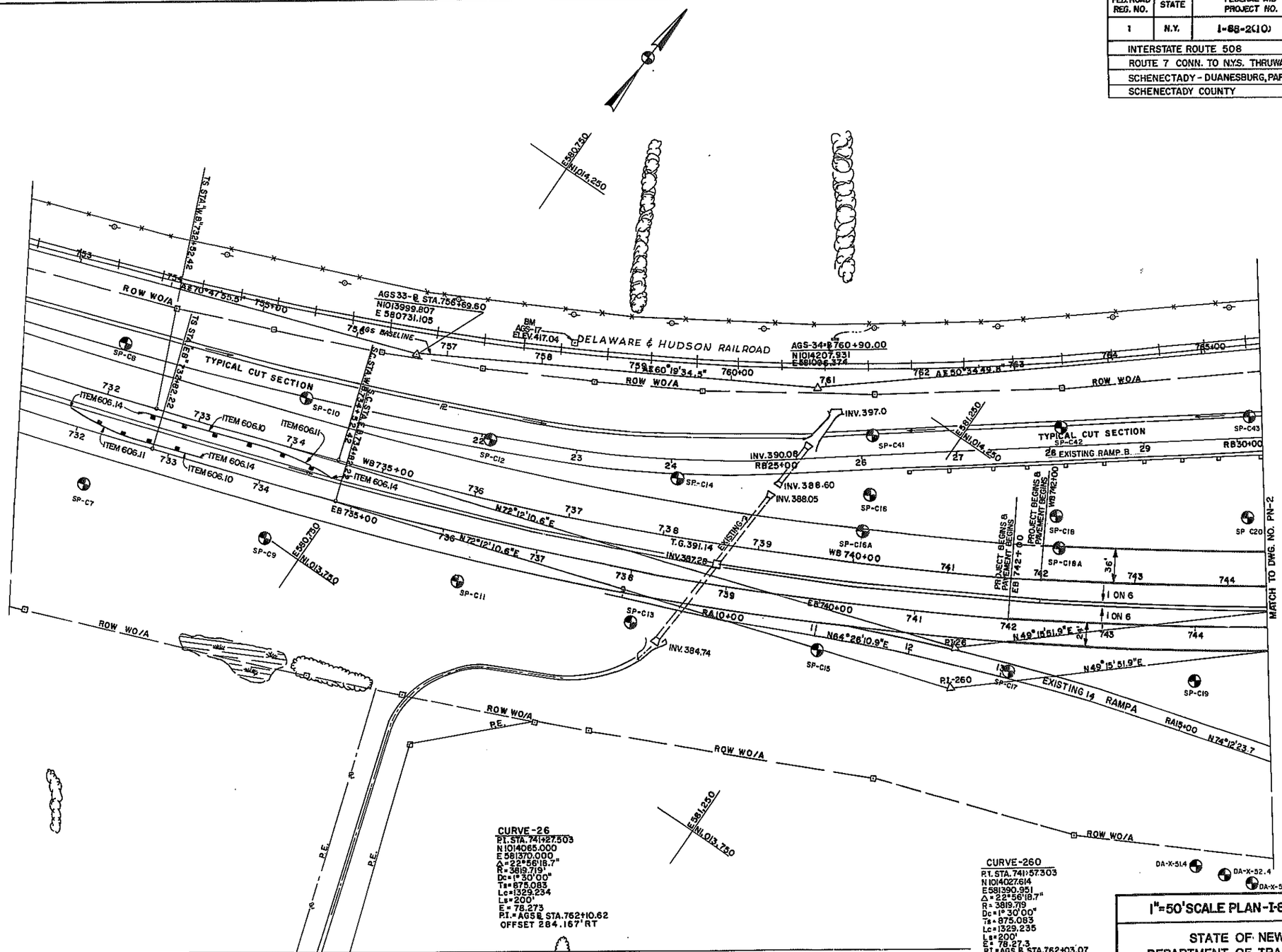
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DWG. NO.	SCALE	DATE	
L-2	AS SHOWN	7/79	REGION 1

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	80	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART 1, S.H.880
SCHENECTADY COUNTY



CURVE-26
P.I. STA. 741+27.503
N 1014065.000
E 581370.000
Δ = 22°56'18.7"
R = 3819.719'
Dc = 1°30'00"
Ts = 875.083
Lc = 1329.234
Ls = 200'
E = 78.273
P.I. = AGS ℄ STA. 762+10.62
OFFSET 284.167' RT

CURVE-260
P.I. STA. 741+57.303
N 1014027.614
E 581390.951
Δ = 22°56'18.7"
R = 3819.719
Dc = 1°30'00"
Ts = 875.083
Lc = 1329.235
Ls = 200'
E = 78.27.3
P.I. = AGS ℄ STA. 762+03.07
OFFSET 326.352' RT

1" = 50' SCALE PLAN - I-88 MAINLINE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

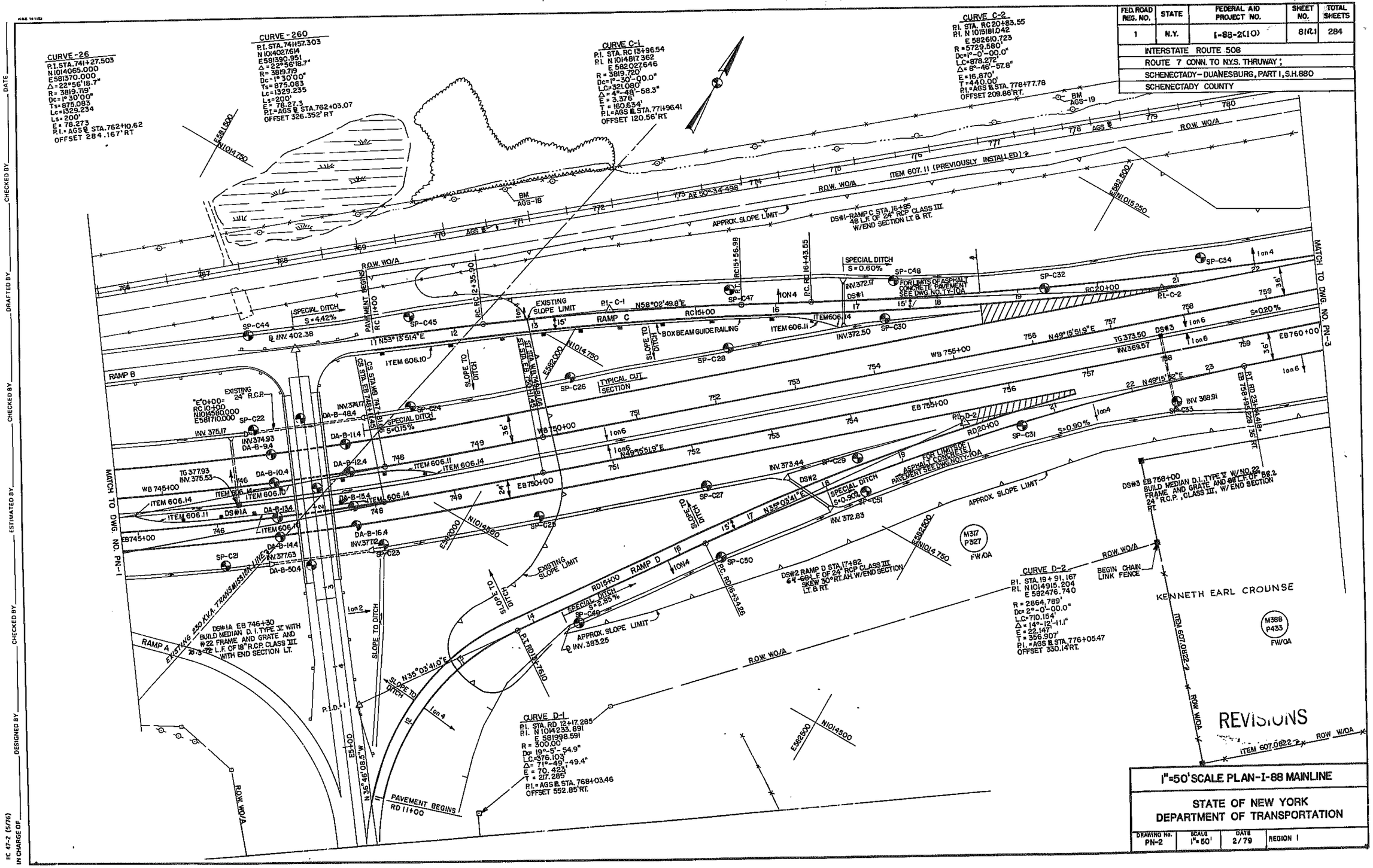
DRAWING No.	SCALE	DATE	REGION
PN-1	1" = 50'	4/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HE 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	81(2)	284

INTERSTATE ROUTE 506
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



1"=50' SCALE PLAN-I-88 MAINLINE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PN-2	1"=50'	2/79	1

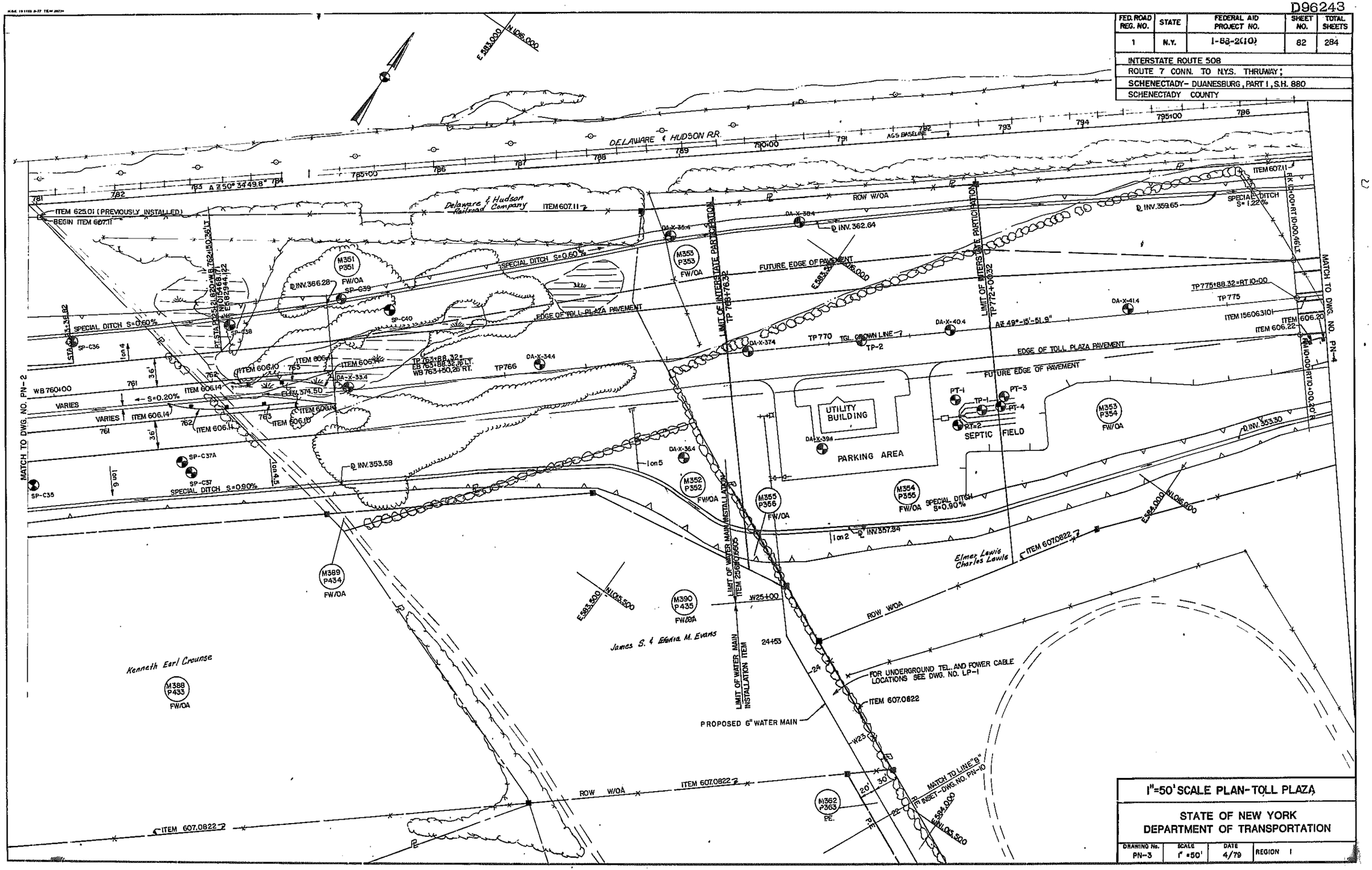
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	82	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY- DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



1"=50' SCALE PLAN-TOLL PLAZA

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

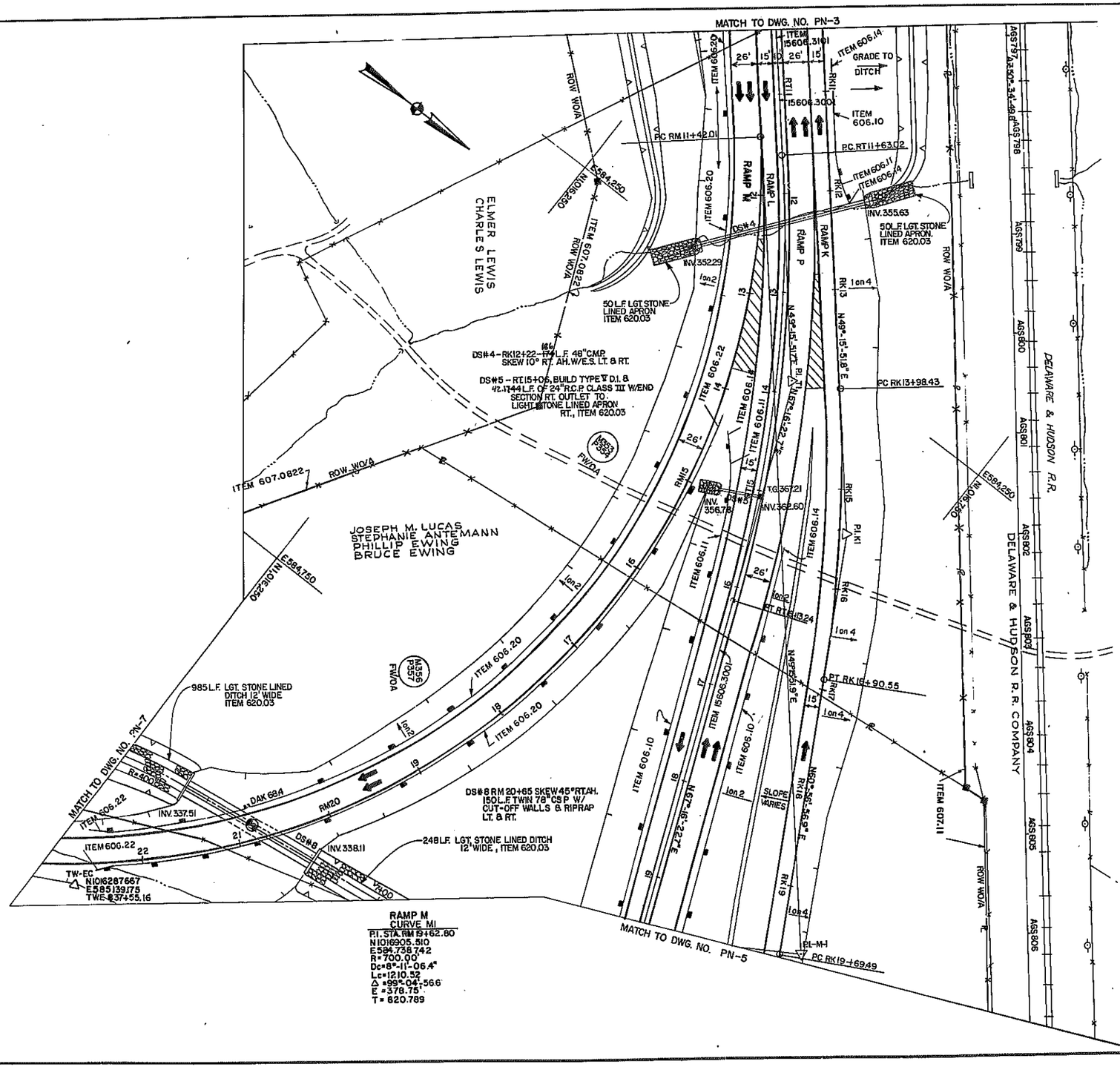
DRAWING No.	SCALE	DATE	REGION
PN-3	1" =50'	4/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
57-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	8321	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



RAMP K
CURVE K1
P.I. STA. RK15+45.00
N1016682.876
E584379.093
Δ = 11°-41'-05.0"
Dc = 4°-00'-00"
R = 1432.394'
Lc = 292.118'
T = 146.567'
E = 7.479'

RT RAMP
CURVE T1
P.I. STA. RT 13+89.99
N1016546.872
E584291.663
= 18°-00.0'-31.0"
Dc = 4°-00'-00.0"
R = 1432.394'
Lc = 450.215'
T = 226.979'
E = 17.872'

RAMP M
CURVE M1
P.I. STA. RM 19+62.80
N1016905.510
E584756.742
R = 700.00'
Dc = 8°-11'-06.4"
Lc = 1210.52
Δ = 99°-04'-56.6"
E = 378.75'
T = 820.789

REVISIONS

1" = 50' SCALE PLAN I-88-I-90 INTERCHANGE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PN-4	1" = 50'	3/79	I

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
IIC 47-2 (5/76)

D96243

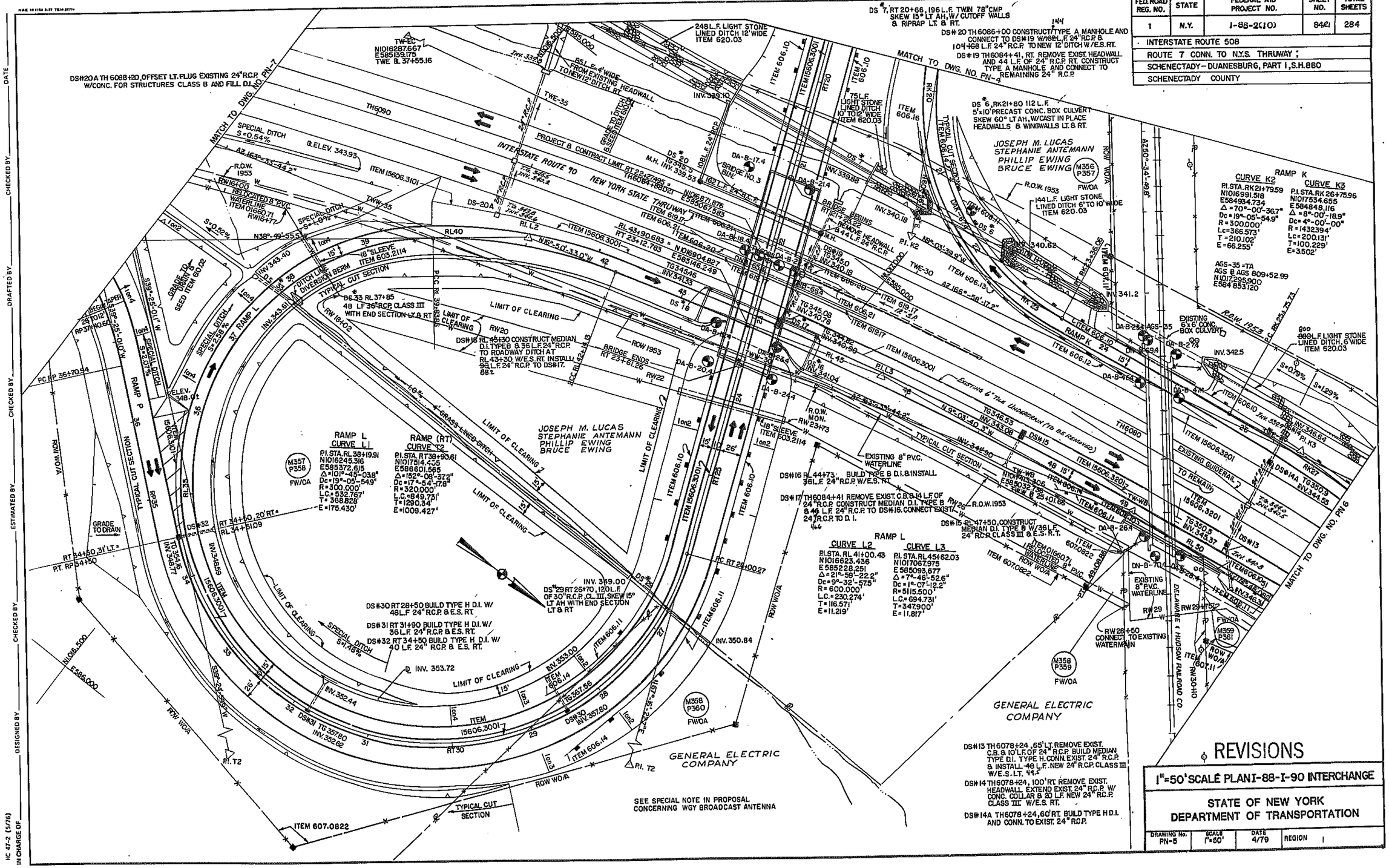
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	8421	284

INTERSTATE ROUTE 508

ROUTE 7 CONN. TO N.Y.S. THRUWAY ;

SCHENECTADY - DUANESBURG, PART I, S.H. 880

SCHENECTADY COUNTY



REVISIONS

1" = 50' SCALE PLAN I-88-I-90 INTERCHANGE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PN-5	1" = 50'	4/79	1

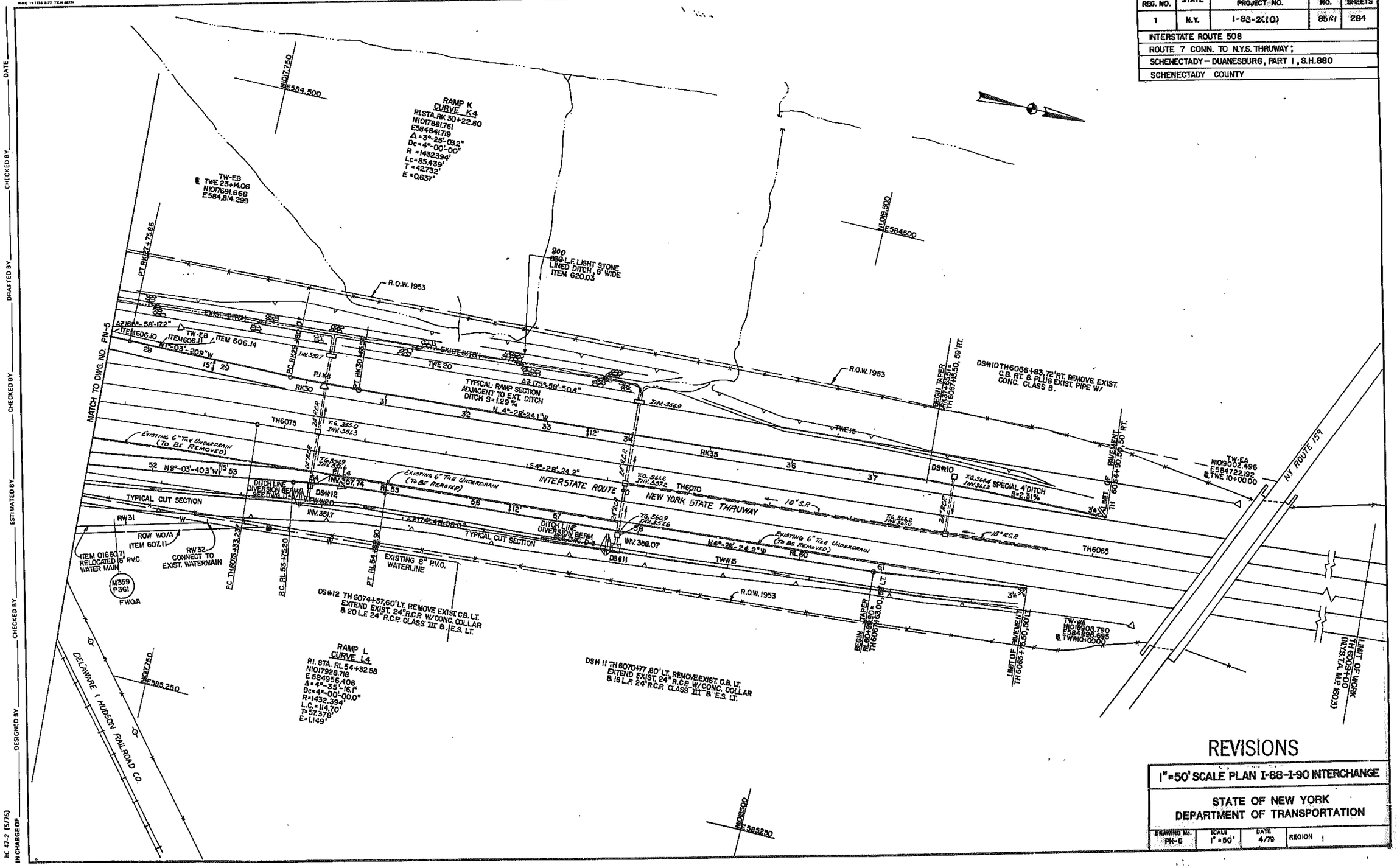
DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
CHECKED BY
IN CHARGE OF

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	85/21	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



REVISIONS

1" = 50' SCALE PLAN I-88-I-90 INTERCHANGE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PN-6	1" = 50'	4/79	1

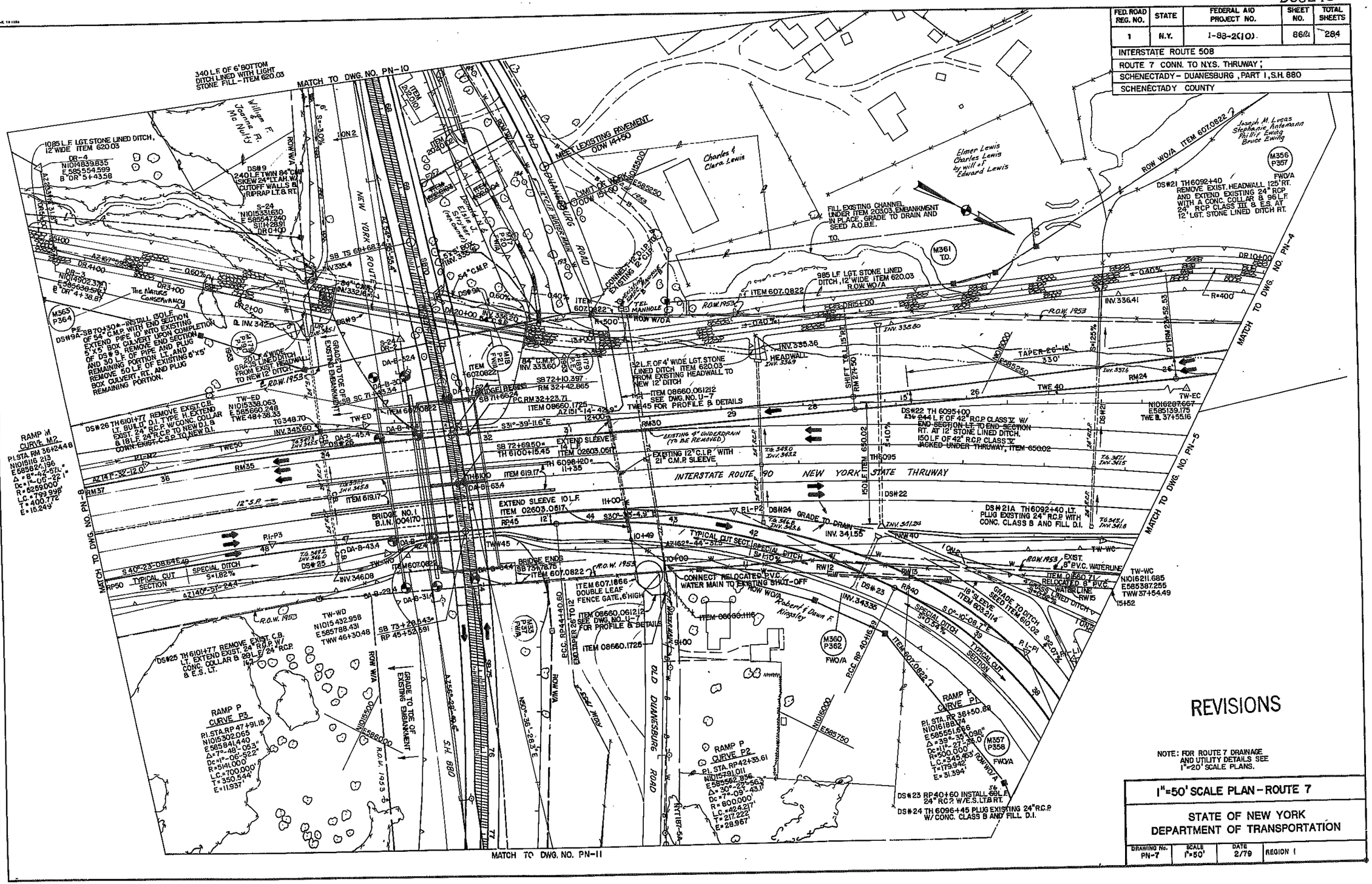
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/75)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	86(a)	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY- DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



REVISIONS

NOTE: FOR ROUTE 7 DRAINAGE AND UTILITY DETAILS SEE 1"=20' SCALE PLANS.

1"=50' SCALE PLAN - ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PN-7	1"=50'	2/79	REGION 1

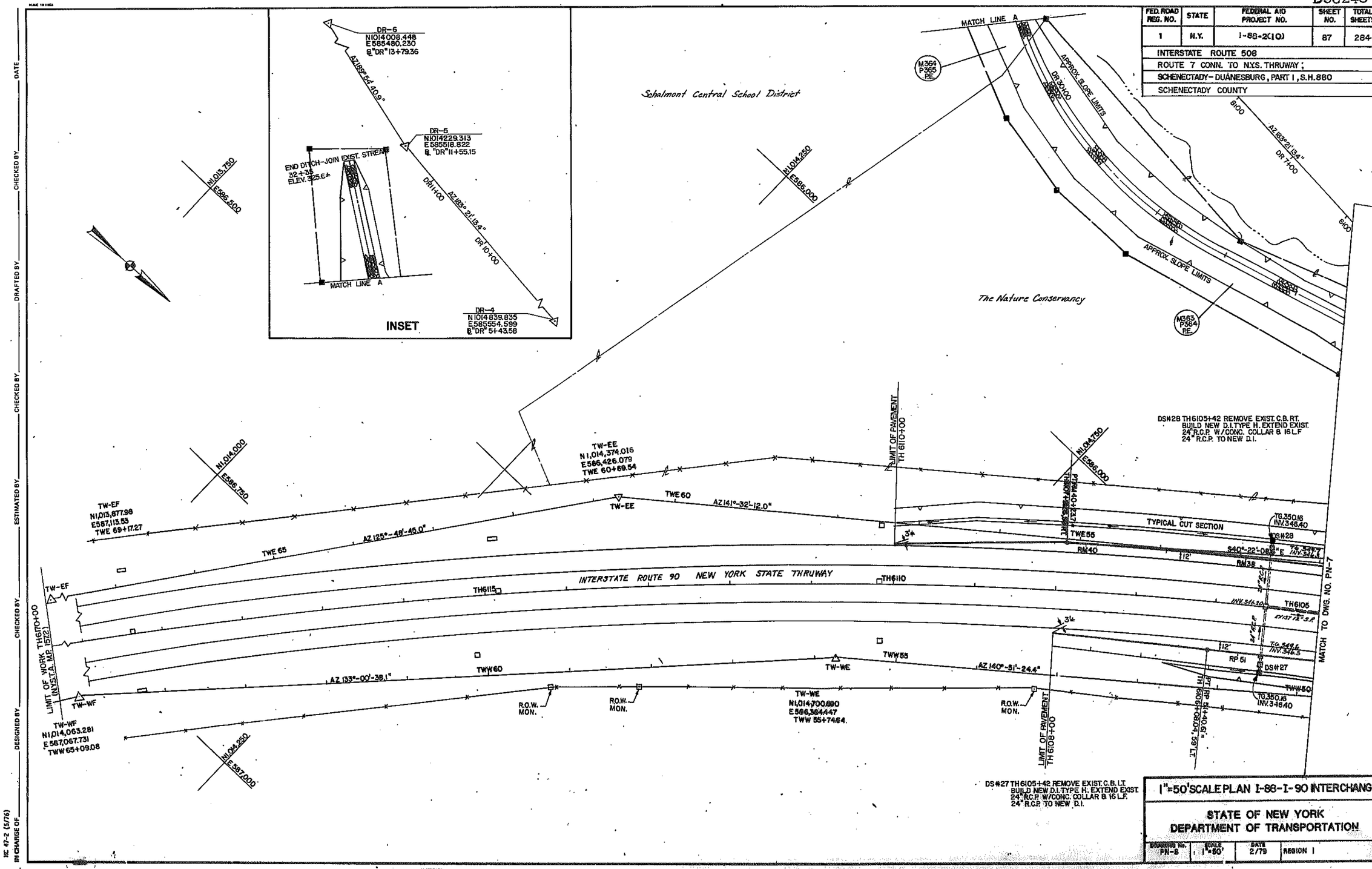
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ DESIGNED BY ____ CHECKED BY ____ IN CHARGE OF ____

NC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	87	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY - DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



1"=50' SCALE PLAN I-88-I-90 INTERCHANGE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PN-5	1"=50'	2/79	REGION 1

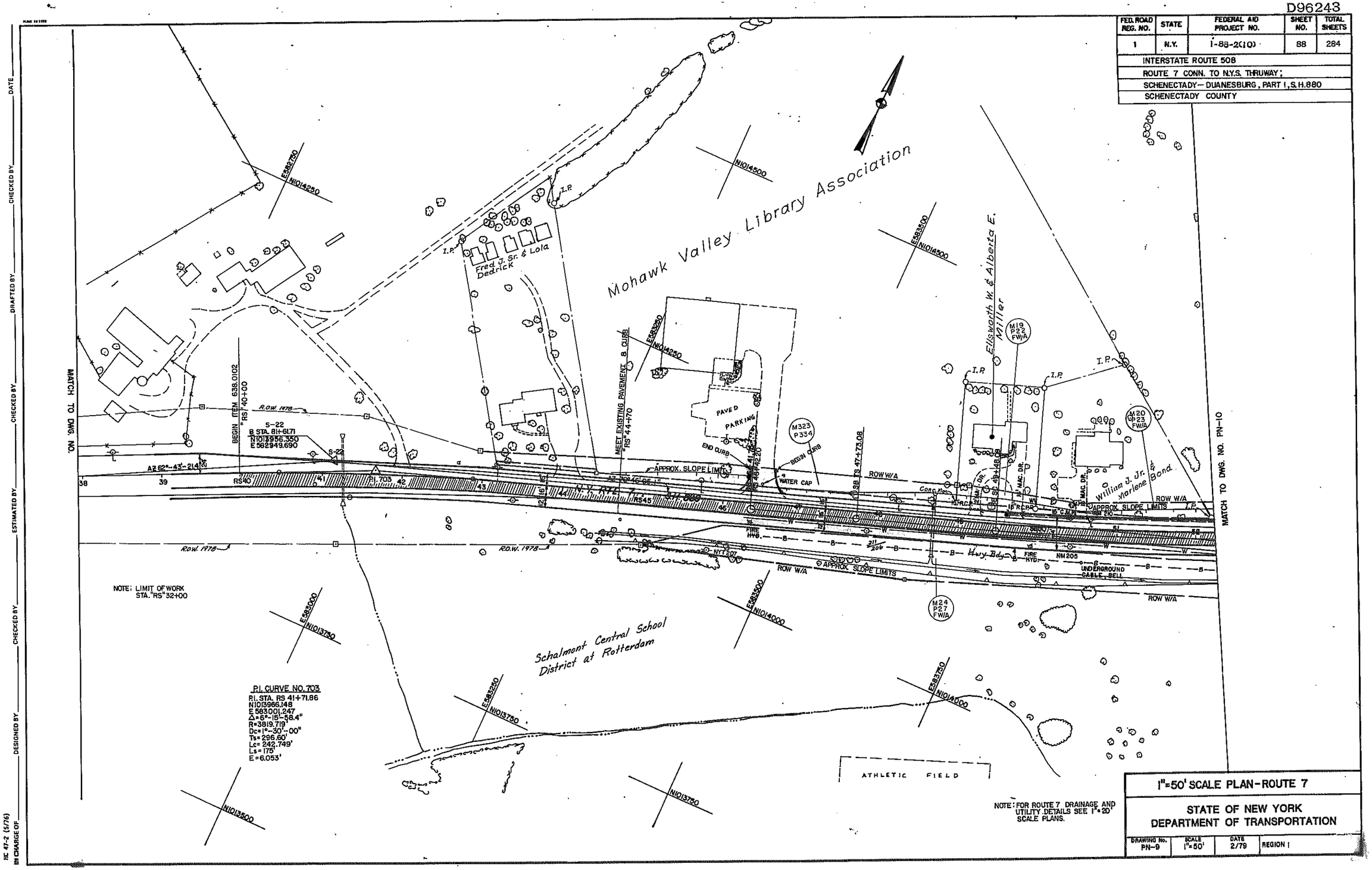
DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF

NE 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	88	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY—DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



1"=50' SCALE PLAN-ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PN-9	1"=50'	2/79	REGION I

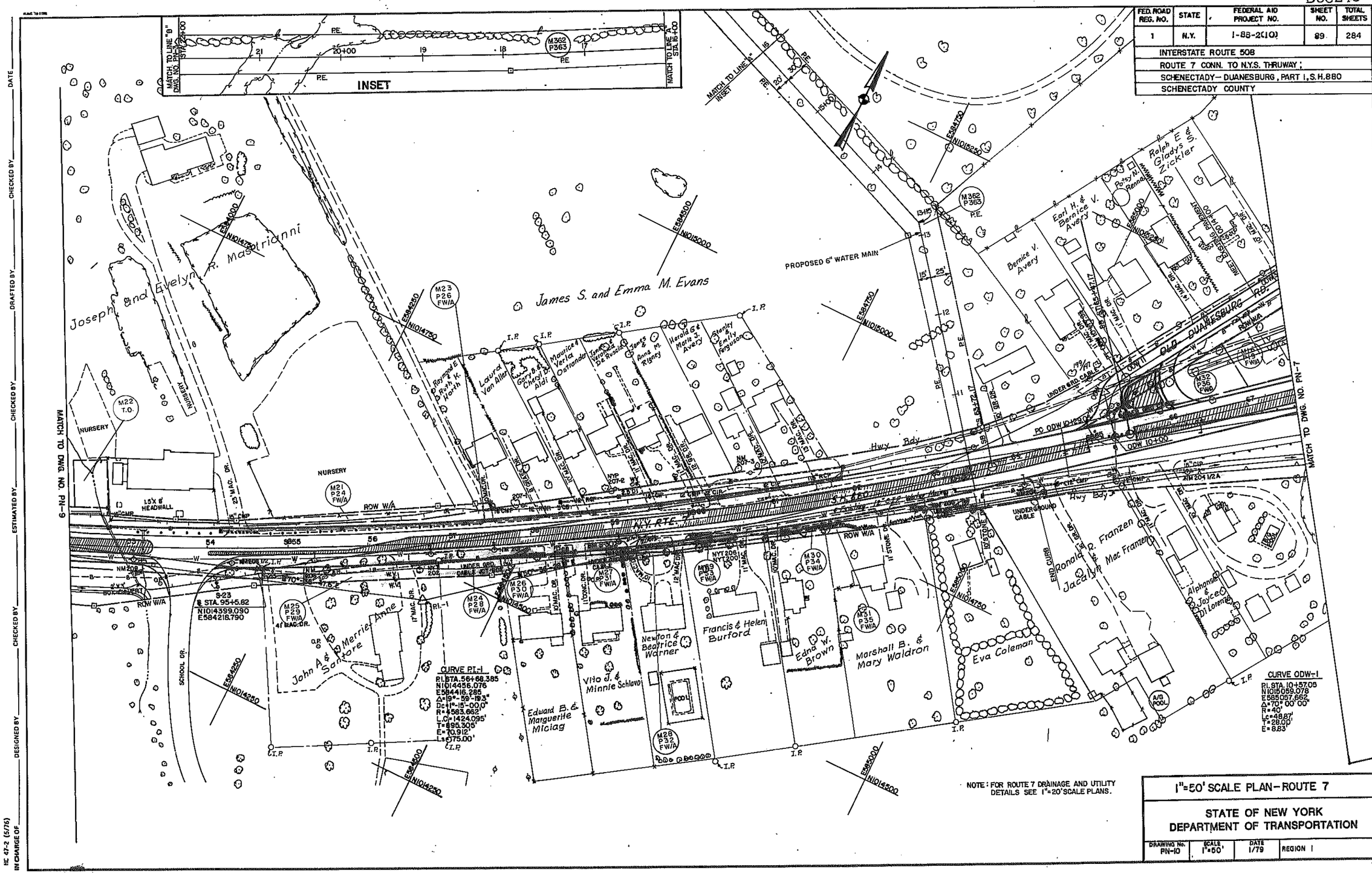
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HE 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	89	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



NOTE: FOR ROUTE 7 DRAINAGE AND UTILITY DETAILS SEE 1"=20' SCALE PLANS.

1"=50' SCALE PLAN-ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PN-10	1"=50'	1/79	1

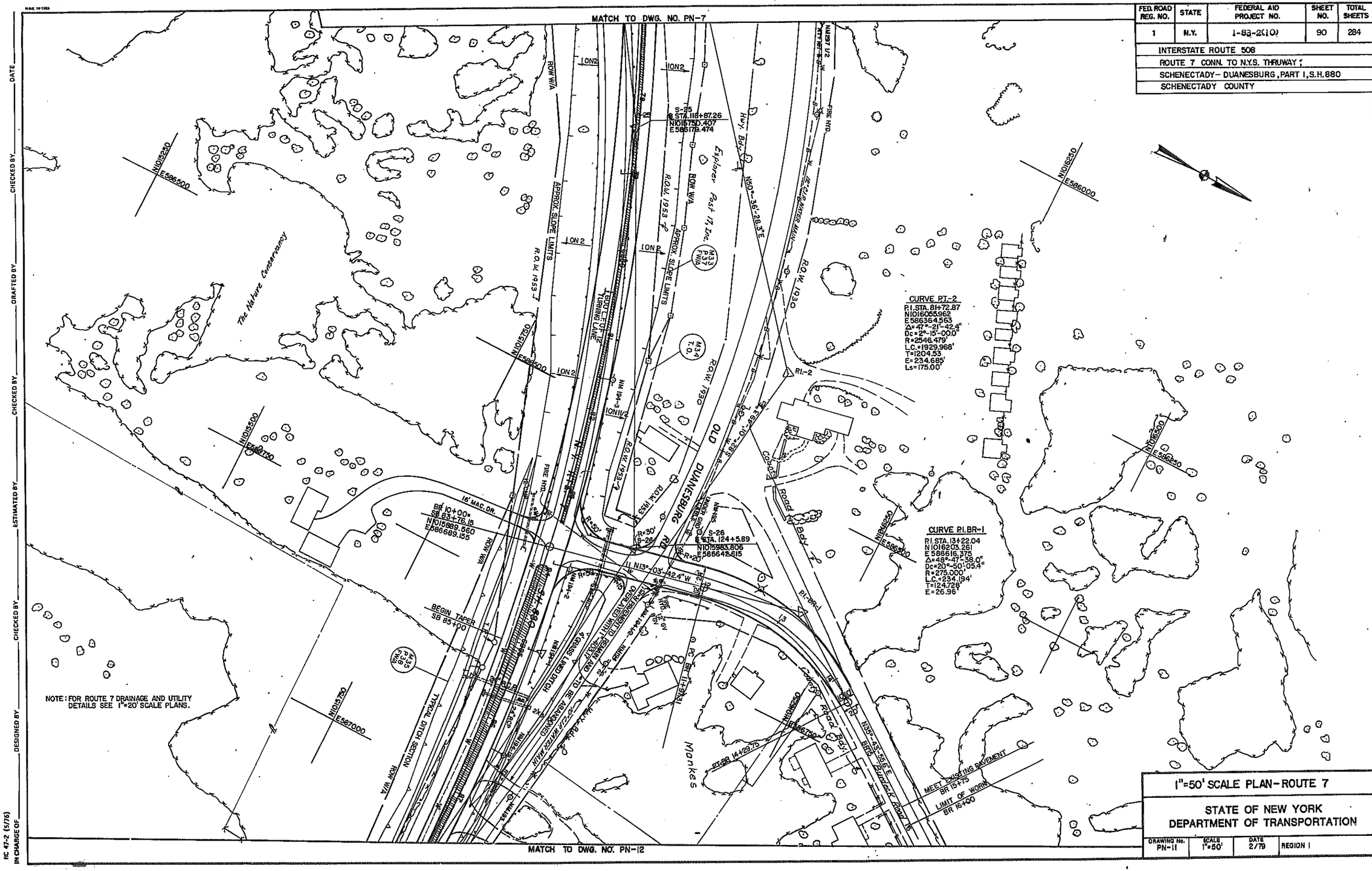
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

EC 47-2 (5/75)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	90	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



1"=50' SCALE PLAN-ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
PN-11	1"=50'	2/79	REGION I

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
FC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	91	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

1"=50' SCALE PLAN - ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
PN-12	1"=50'	2/79	REGION I

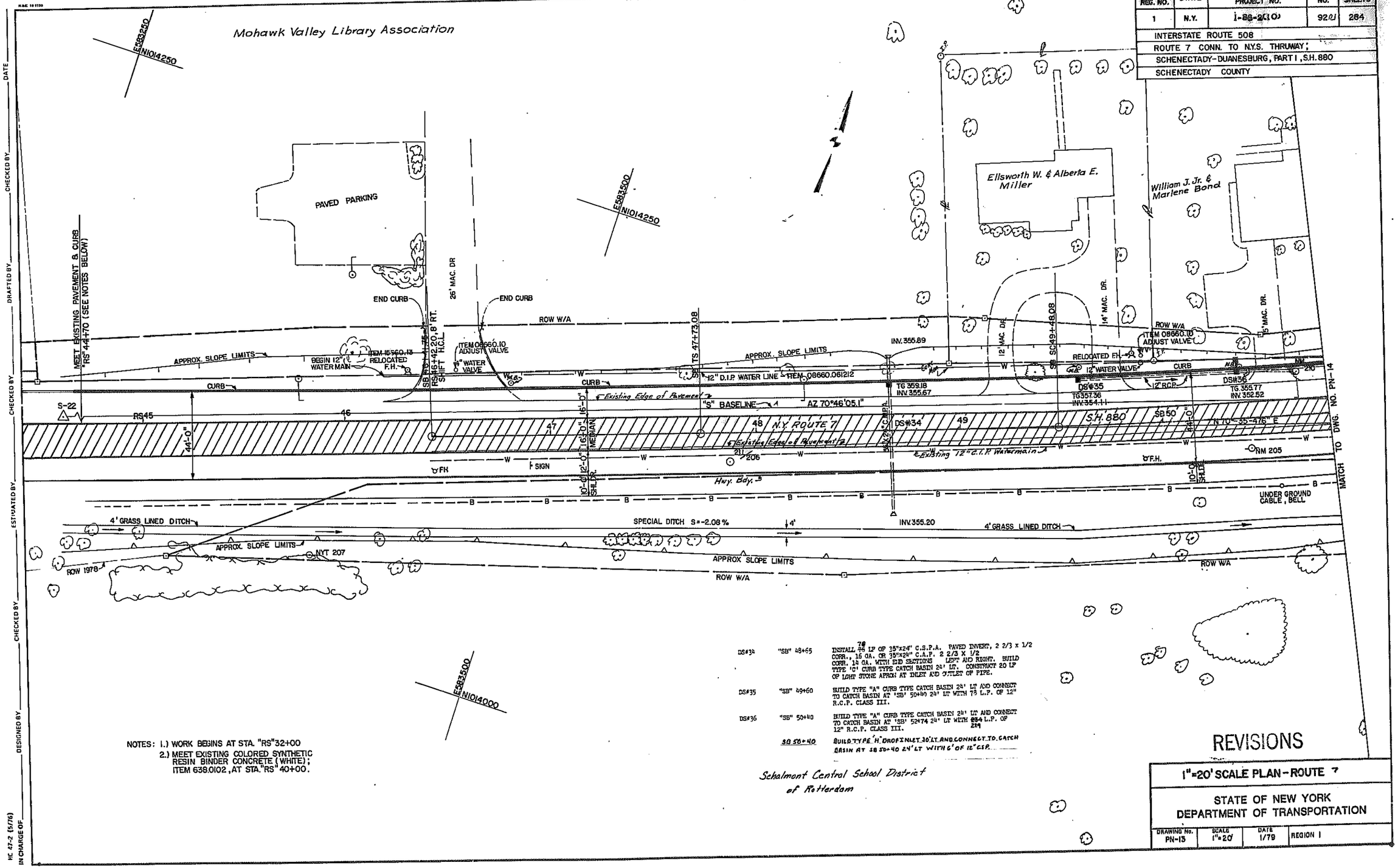
DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF

FE 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	92A	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



DS#34	"SB" 48+65	INSTALL 78 LF OF 35"x24" C.S.P.A. PAVED INVERT, 2 2/3 x 1/2 CORR., 16 GA. OR 35"x24" C.A.P. 2 2/3 X 1/2 CORR. 14 GA. WITH END SECTIONS LEFT AND RIGHT. BUILD TYPE "C" CURB TYPE CATCH BASIN 24' LT. CONSTRUCT 20 LF OF LIGHT STONE APRON AT INLET AND OUTLET OF PIPE.
DS#35	"SB" 49+60	BUILD TYPE "A" CURB TYPE CATCH BASIN 24' LT AND CONNECT TO CATCH BASIN AT "SB" 50+40 24' LT WITH 78 L.F. OF 12" R.C.P. CLASS III.
DS#36	"SB" 50+40	BUILD TYPE "A" CURB TYPE CATCH BASIN 24' LT AND CONNECT TO CATCH BASIN AT "SB" 52+74 24' LT WITH ~~234~~ 214 L.F. OF 12" R.C.P. CLASS III.
	SB 50+40	BUILD TYPE "H" DROP INLET 30' LT AND CONNECT TO CATCH BASIN AT SB 50+40 24' LT WITH 6' OF 12" CSP.

Schalmont Central School District of Rotterdam

NOTES: 1.) WORK BEGINS AT STA. "RS" 32+00
2.) MEET EXISTING COLORED SYNTHETIC RESIN BINDER CONCRETE (WHITE); ITEM 638.0102, AT STA. "RS" 40+00.

REVISIONS

1" = 20' SCALE PLAN - ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

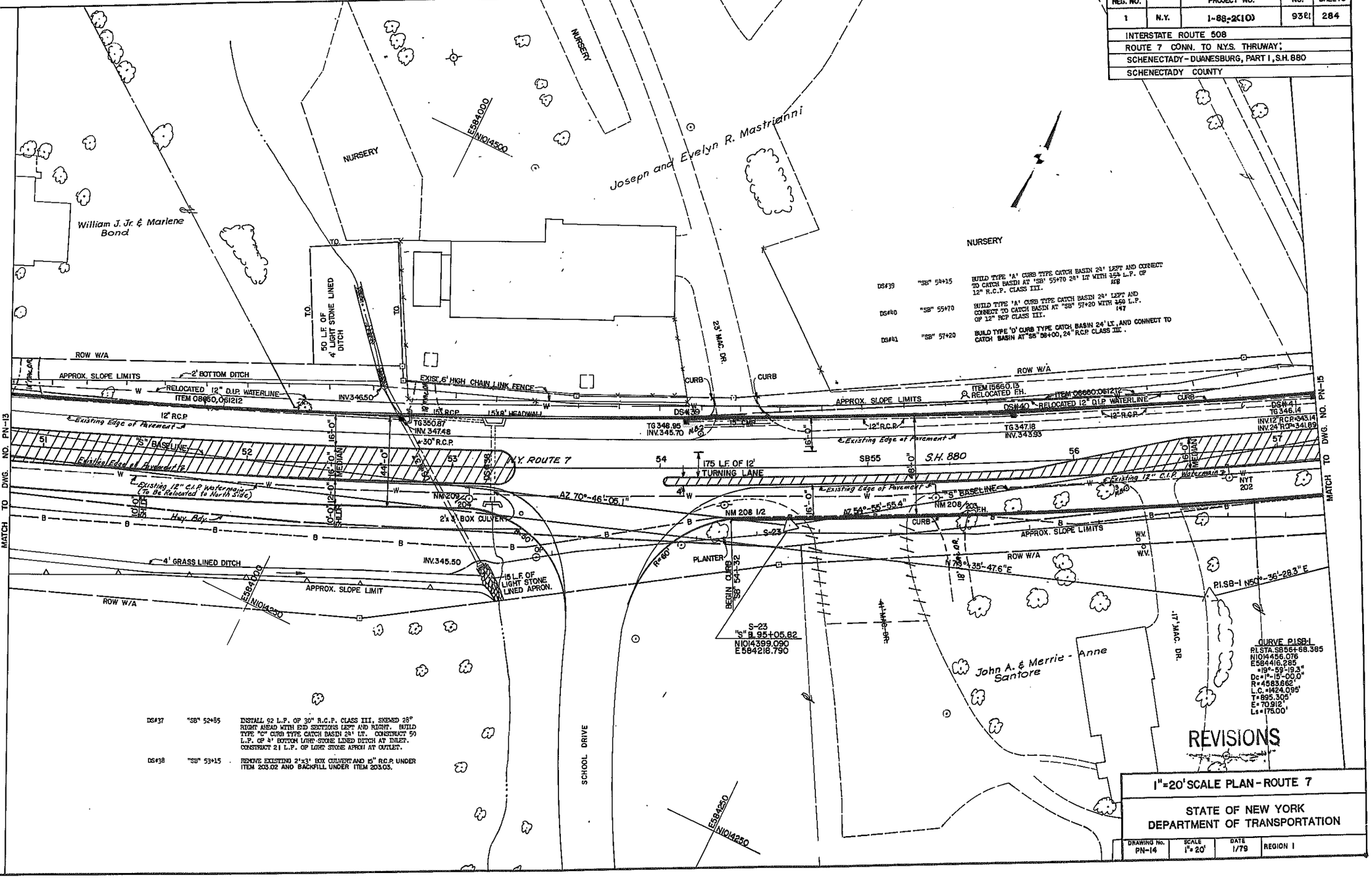
DRAWING No.	SCALE	DATE	
PN-13	1" = 20'	1/79	REGION 1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	93	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



DS#37	"SB" 52+85	INSTALL 92 L.F. OF 30" R.C.P. CLASS III, SKEWED 28° RIGHT AHEAD WITH END SECTIONS LEFT AND RIGHT. BUILD TYPE "C" CURB TYPE CATCH BASIN 24' LT. CONSTRUCT 59 L.F. OF 4' BOTTOM LIGHT STONE LINED DITCH AT INLET. CONSTRUCT 21 L.F. OF LIGHT STONE APRON AT OUTLET.
DS#38	"SB" 53+15	REMOVE EXISTING 2'x3' BOX CULVERT AND 15" R.C.P. UNDER ITEM 203.02 AND BACKFILL UNDER ITEM 203.03.
DS#39	"SB" 54+15	BUILD TYPE 'A' CURB TYPE CATCH BASIN 24' LEFT AND CONNECT TO CATCH BASIN AT 'SB' 55+70 24' LT WITH 154/158 L.F. OF 12" R.C.P. CLASS III.
DS#40	"SB" 55+70	BUILD TYPE 'A' CURB TYPE CATCH BASIN 24' LEFT AND CONNECT TO CATCH BASIN AT "SB" 57+20 WITH 159/147 L.F. OF 12" RCP CLASS III.
DS#41	"SB" 57+20	BUILD TYPE 'D' CURB TYPE CATCH BASIN 24' LT. AND CONNECT TO CATCH BASIN AT "SB" 58+00, 24" R.C.P. CLASS III.

1"=20' SCALE PLAN - ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PN-14	1"=20'	1/79	1

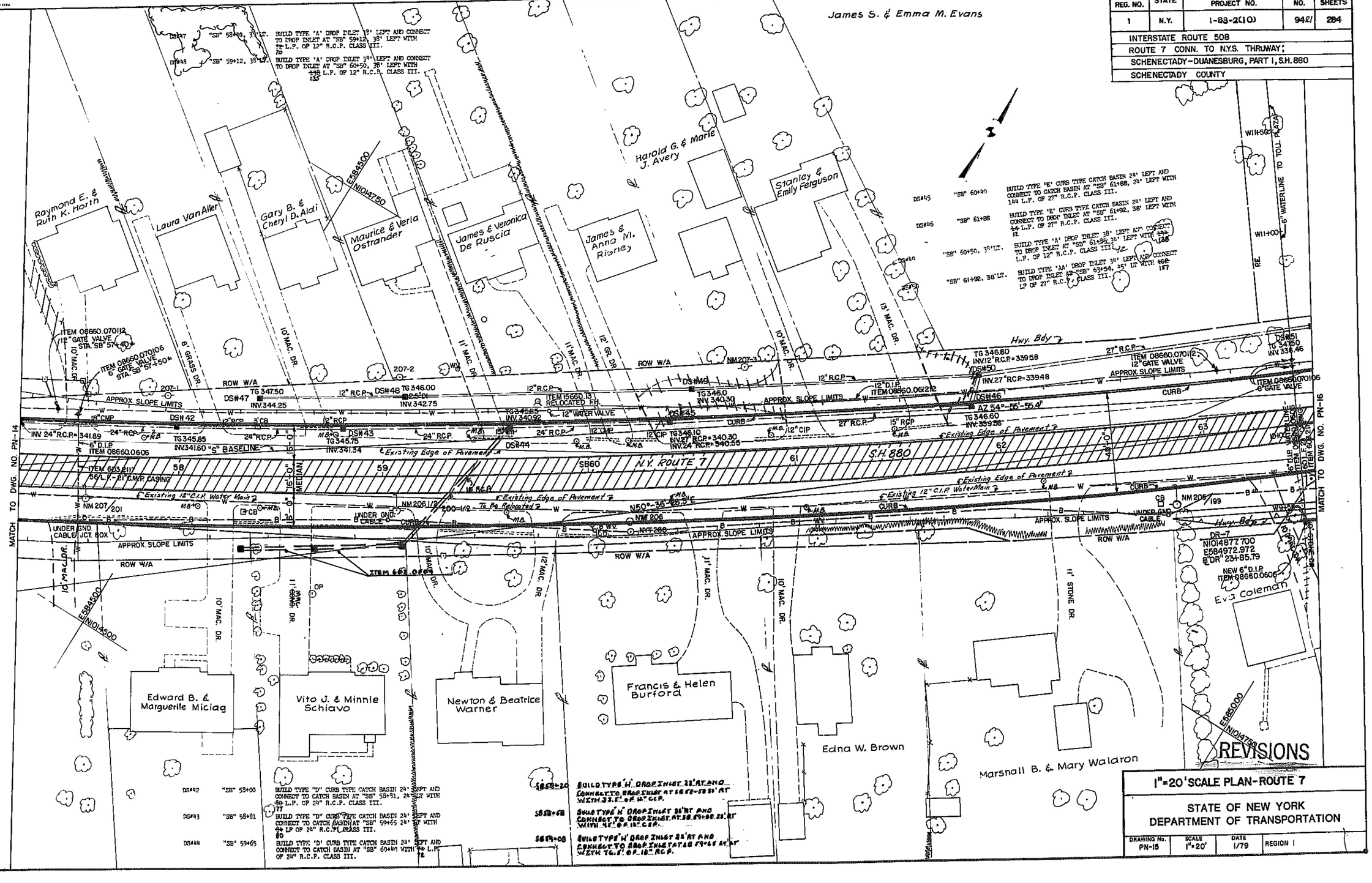
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	94A1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



1"=20' SCALE PLAN-ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PN-15	1"=20'	1/79	REGION I

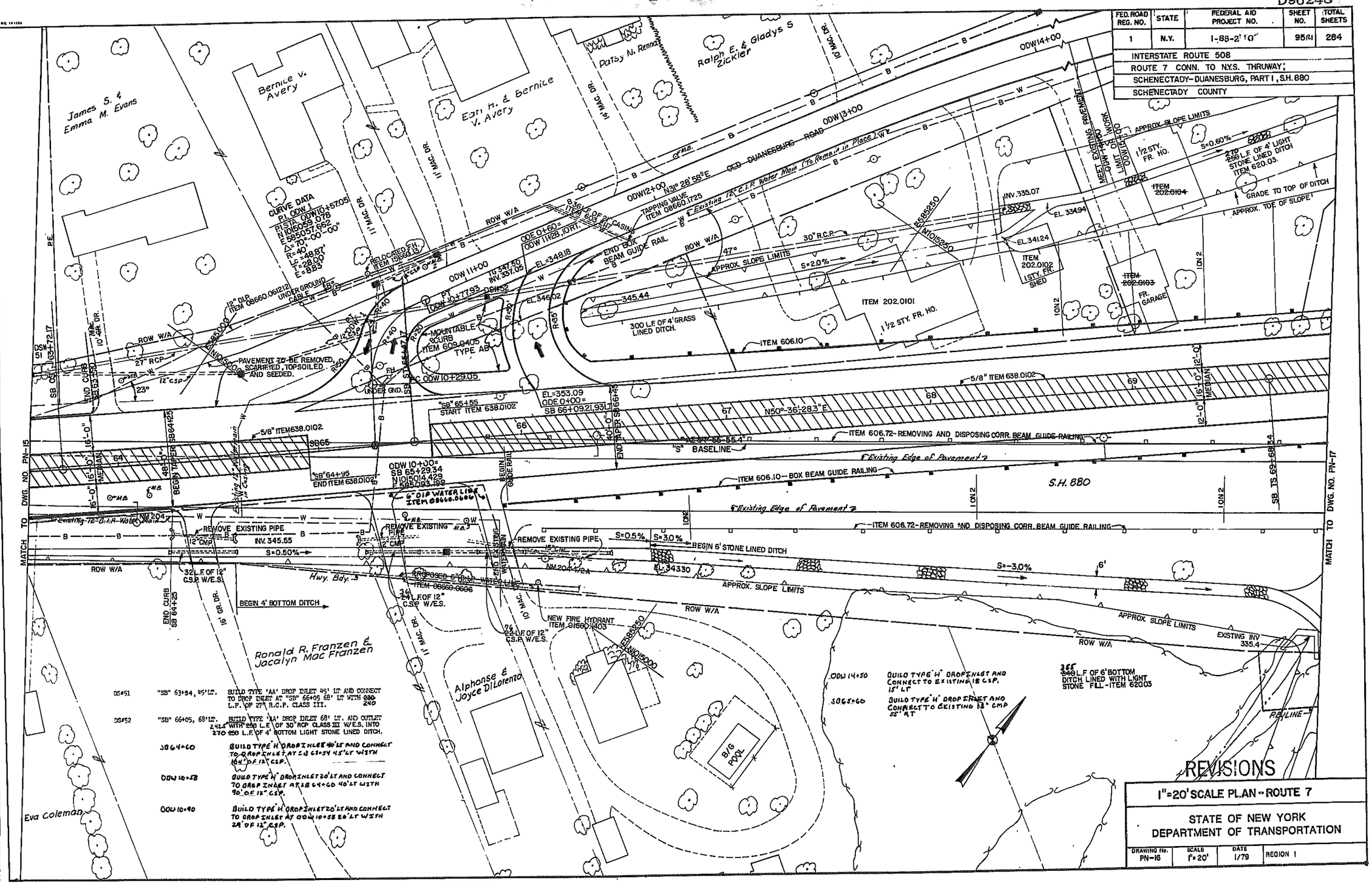
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 37-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2' 10"	95(2)	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

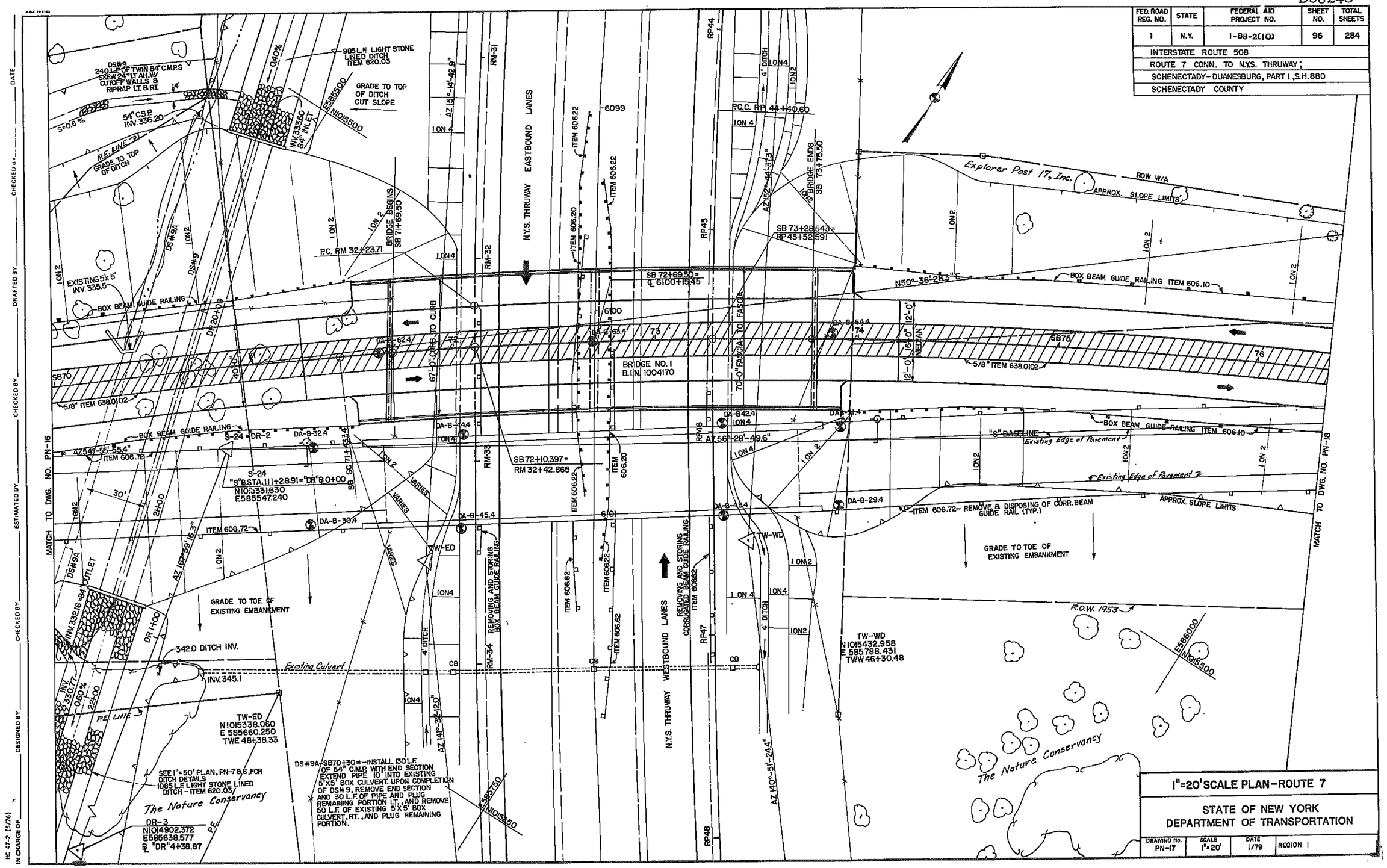


DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	96	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



1" = 20' SCALE PLAN - ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

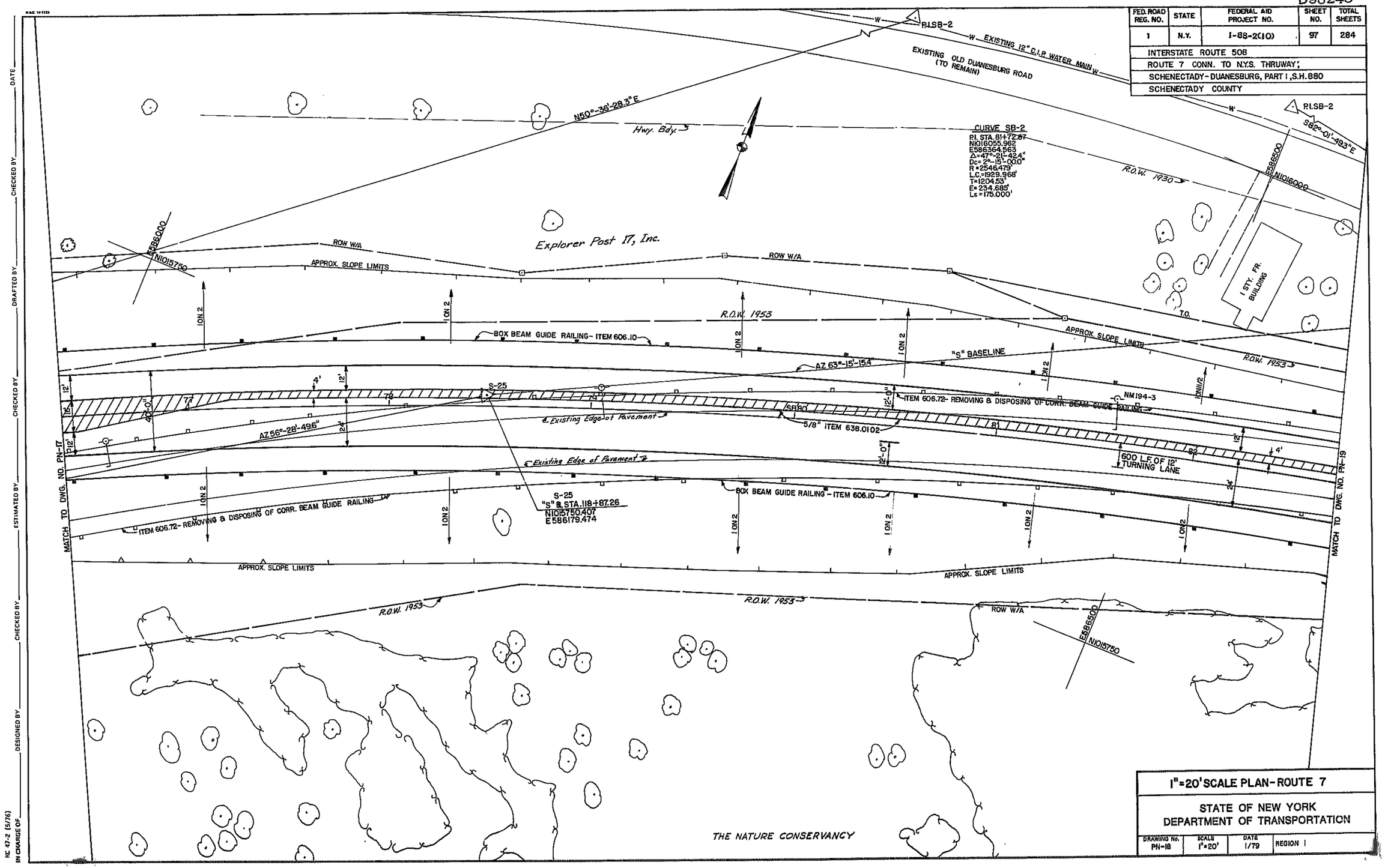
DRAWING No.	SCALE	DATE	REGION
PN-17	1" = 20'	1/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	97	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



1"=20' SCALE PLAN-ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PN-16	1"=20'	1/79	1

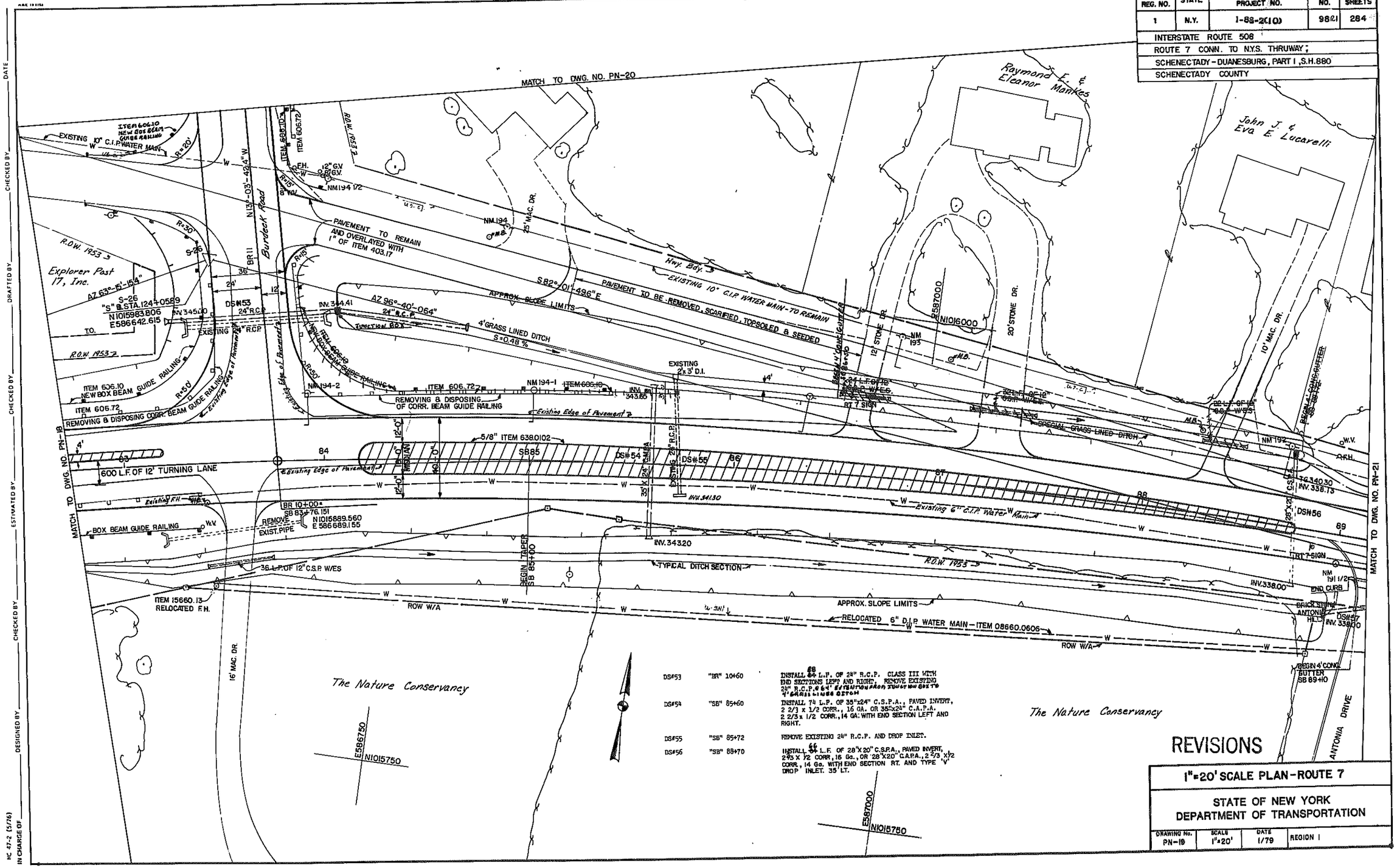
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	98(2)	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



DS#53	"BR" 10+60	INSTALL 68 L.F. OF 24" R.C.P. CLASS III WITH END SECTIONS LEFT AND RIGHT. REMOVE EXISTING 24" R.C.P. & 64' EXTENSION BOX TO 4' GRASS LINED DITCH
DS#54	"SB" 85+60	INSTALL 78 L.F. OF 35"x24" C.S.P.A., PAVED INVERT, 2 2/3 x 1/2 CORR., 16 GA. OR 35"x24" C.A.P.A. 2 2/3 x 1/2 CORR., 14 GA. WITH END SECTION LEFT AND RIGHT.
DS#55	"SB" 85+72	REMOVE EXISTING 24" R.C.P. AND DROP INLET.
DS#56	"SB" 88+70	INSTALL 66 L.F. OF 28"X20" C.S.P.A., PAVED INVERT, 2 2/3 X 1/2 CORR, 16 Ga., OR 28"X20" C.A.P.A., 2 2/3 X 1/2 CORR., 14 Ga. WITH END SECTION RT. AND TYPE "V" DROP INLET. 35' LT.

REVISIONS

1" = 20' SCALE PLAN - ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PN-19	1" = 20'	1/79	REGION I

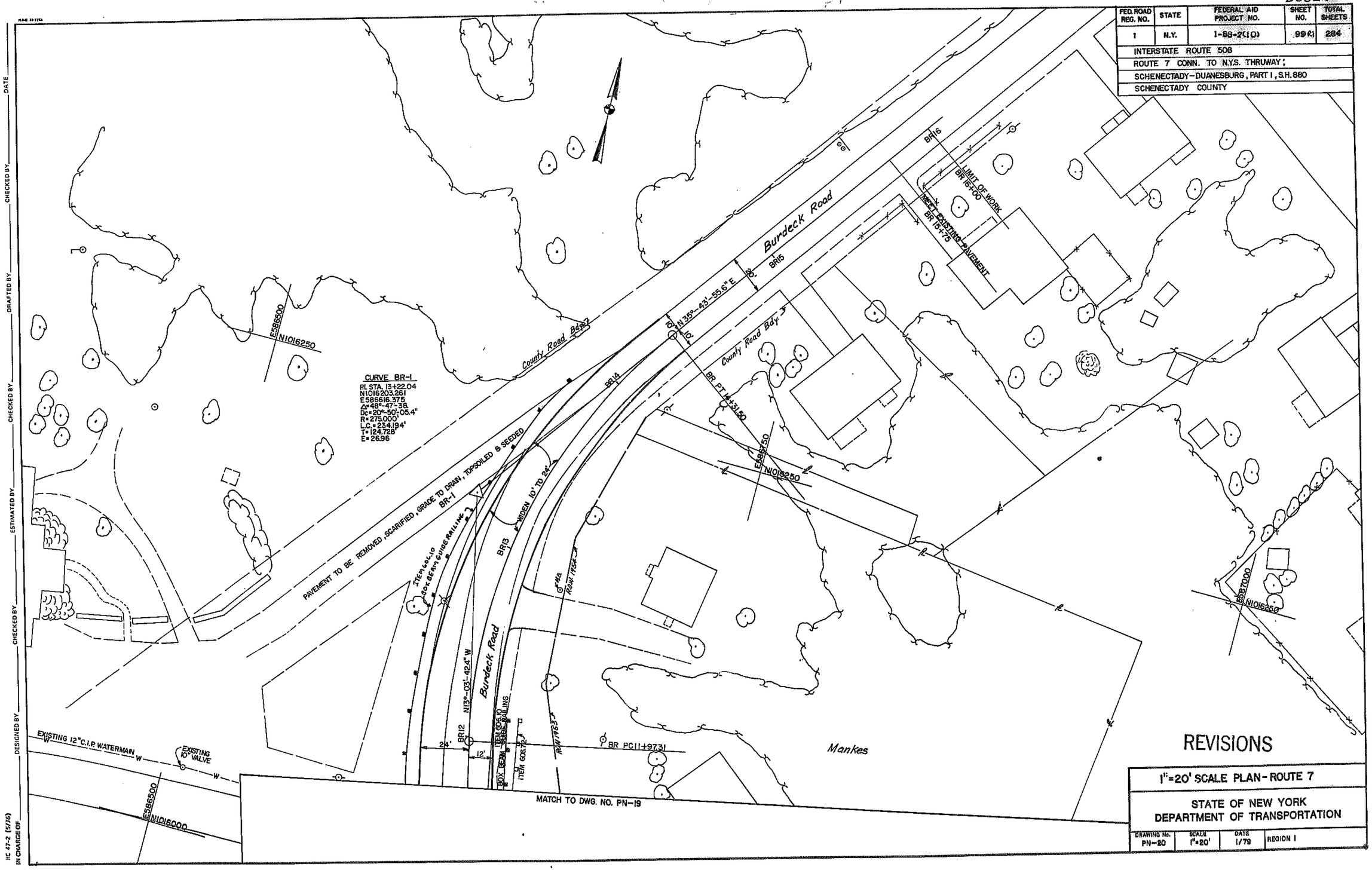
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	99(1)	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



REVISIONS

1"=20' SCALE PLAN-ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PN-20	1"=20'	1/79	REGION I

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

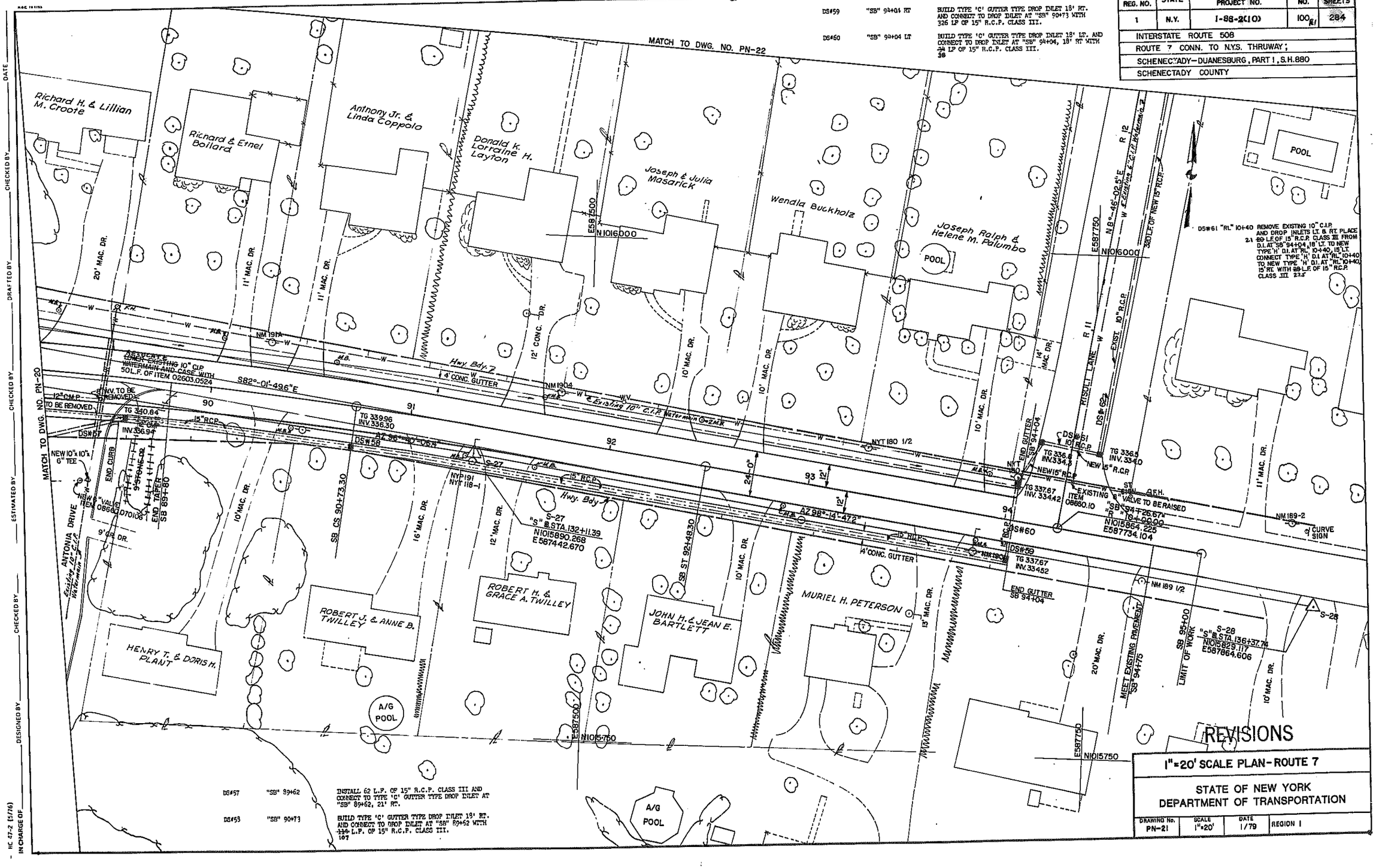
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	100	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY

DS#59 "SB" 94+04 RT — BUILD TYPE 'C' GUTTER TYPE DROP INLET 18' RT. AND CONNECT TO DROP INLET AT "SB" 90+73 WITH 326 LF OF 15" R.C.P. CLASS III.

DS#60 "SB" 94+04 LT — BUILD TYPE 'C' GUTTER TYPE DROP INLET 18' LT. AND CONNECT TO DROP INLET AT "SB" 94+04, 18' RT WITH ~~34~~ 36 LF OF 15" R.C.P. CLASS III.



1"=20' SCALE PLAN-ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
PN-21	1"=20'	1/79	REGION I

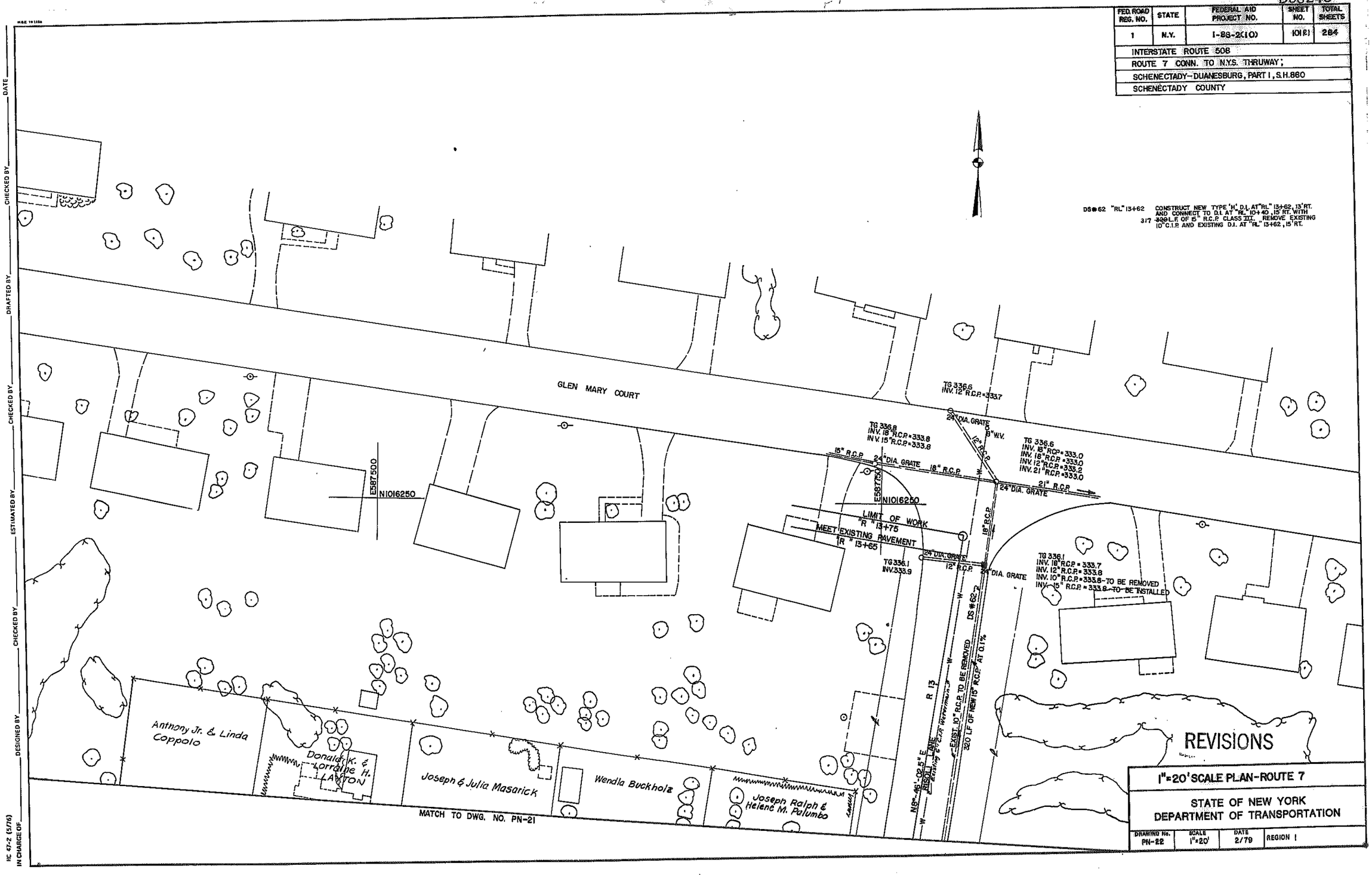
DATE ___ CHECKED BY ___ DRAFTED BY ___ CHECKED BY ___ ESTIMATED BY ___ CHECKED BY ___ DESIGNED BY ___ IN CHARGE OF ___

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	101(2)	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.860
SCHENECTADY COUNTY



REVISIONS

1" = 20' SCALE PLAN-ROUTE 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

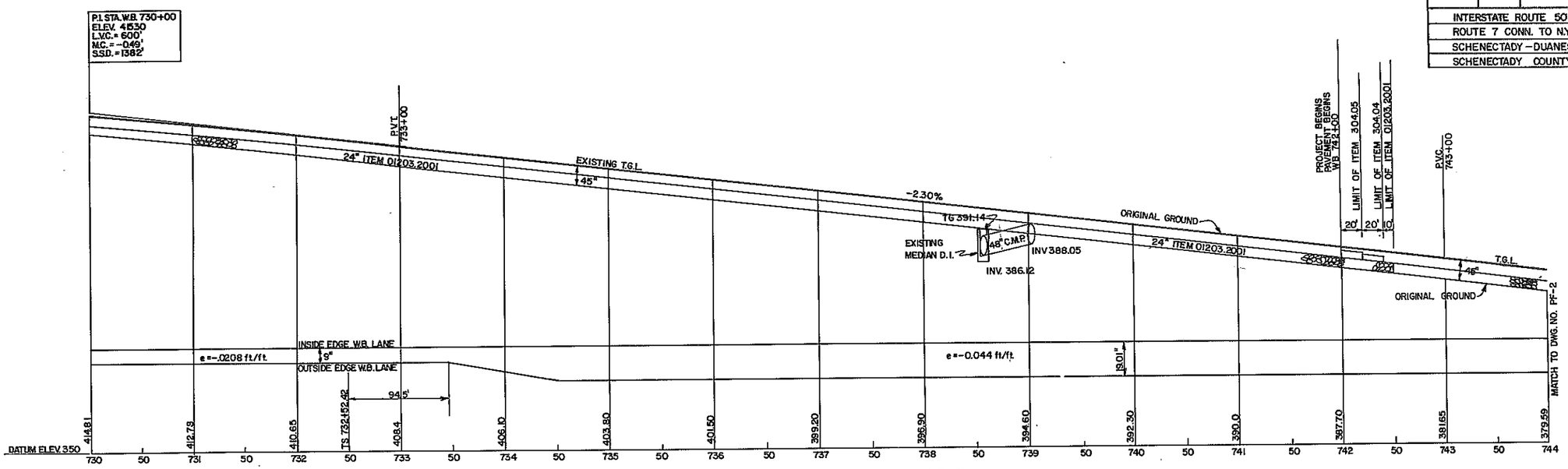
DRAWING No.	SCALE	DATE	REGION
PN-22	1" = 20'	2/79	1

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HBZ 191186
IIC 47-2 (5/76)

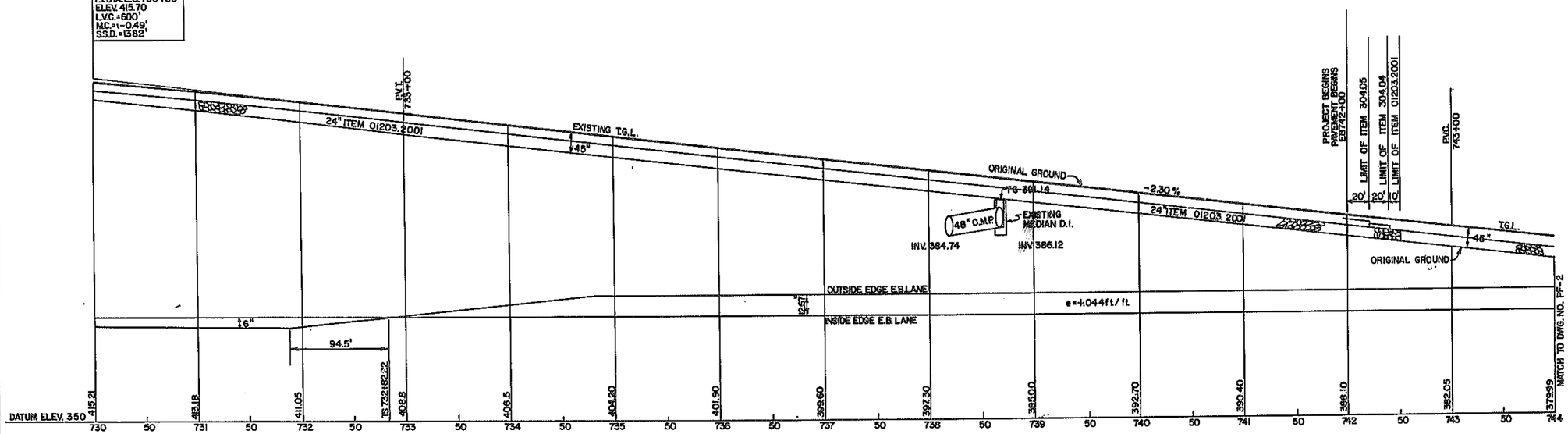
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	102	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY-



MAINLINE WESTBOUND PROFILE



MAINLINE EASTBOUND PROFILE

MAINLINE PROFILE STA. 731+00 TO 744+00

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PF-1	HORIZ. 1" = 50' VERT. 1" = 10'	2/79	1

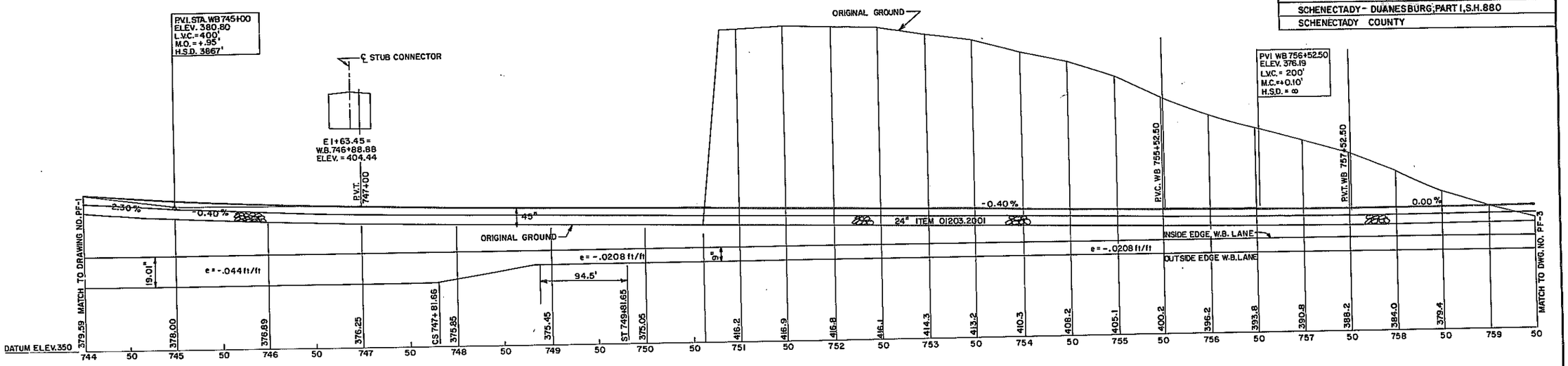
DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF

TSC 47-2 (5/76)

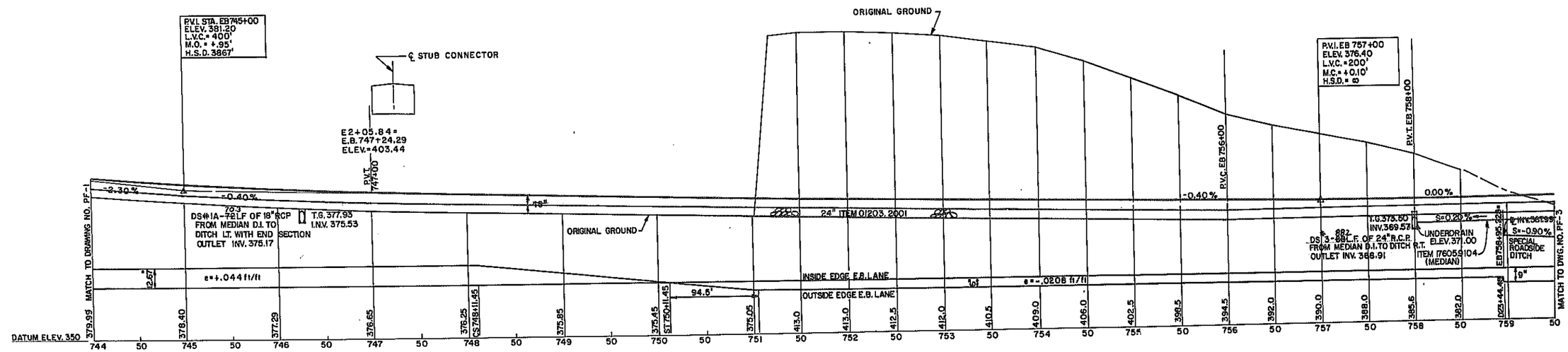
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	105(2)	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG; PART I, S.H. 880
SCHENECTADY COUNTY



MAINLINE WESTBOUND PROFILE



MAINLINE EASTBOUND PROFILE

REVISIONS

MAINLINE PROFILE STA. 744+00 TO 759+50

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PF-2	HORIZ. 1" = 50' VERT. 1" = 10'	1/78	REGION 1

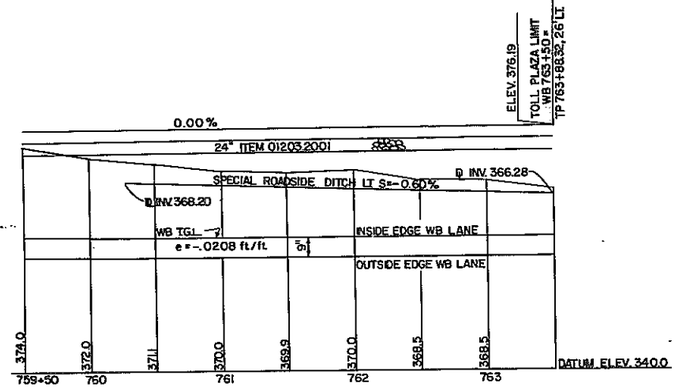
DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF

HC 47-2 (5/76)

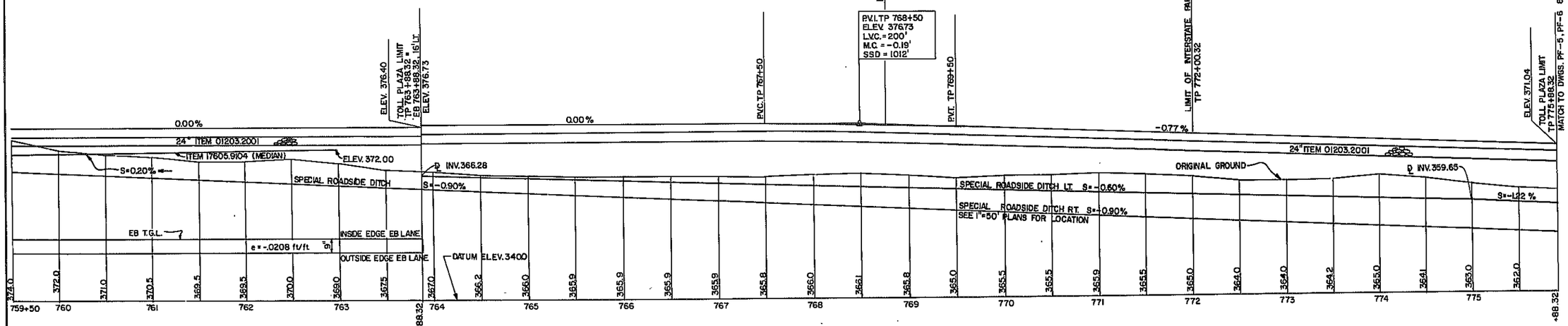
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	104	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



MAINLINE WESTBOUND PROFILE



MAINLINE EASTBOUND PROFILE

TOLL PLAZA PROFILE

NOTE: ORGANIC MATERIAL SHALL BE EXCAVATED AND BACKFILLED WITH 1' OF ITEM 203.20 SELECT GRANULAR SUBGRADE BETWEEN "TP" STA. 764+00± AND "TP" STA. 775+00± AND OTHER AREAS AS ORDERED BY THE ENGINEER.

TOLL PLAZA PROFILE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

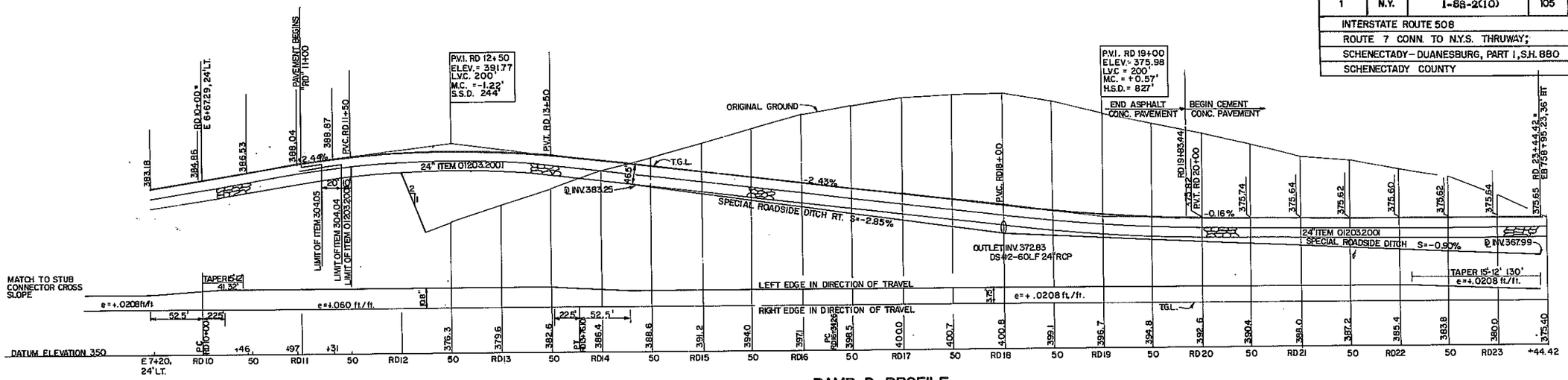
DRAWING No.	SCALE	DATE	REGION
PF-3	VERT. 1" = 10' HORIZ. 1" = 50'	4/79	I

DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

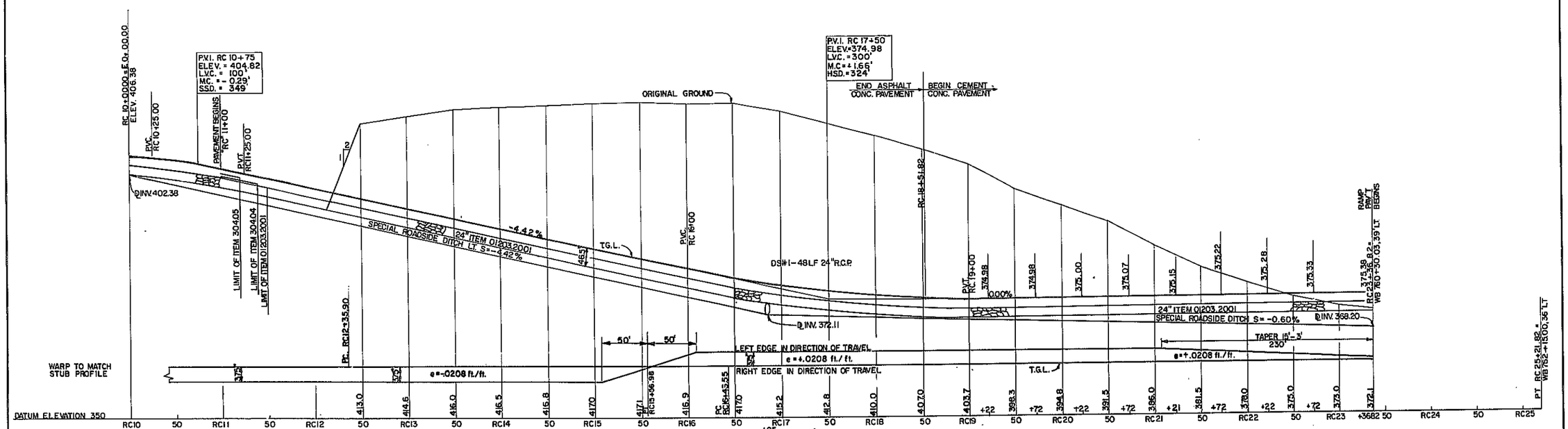
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	105	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



RAMP D PROFILE

SCALE: 1" = 50' HORIZONAL
1" = 10' VERTICAL



RAMP C PROFILE

1" = 50' HORIZONAL
1" = 10' VERTICAL

PROFILES RAMP C & D

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
PF-4	VERT. 1" = 10' HORIZ. 1" = 50'	1/78	REGION 1

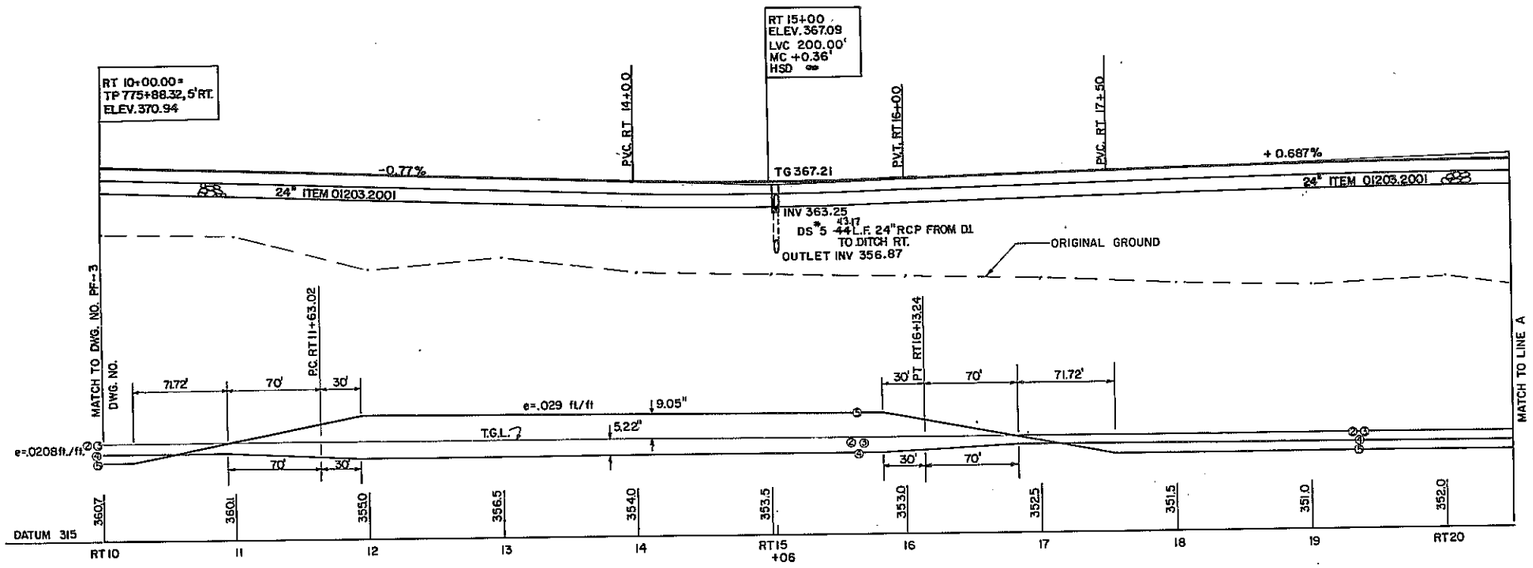
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

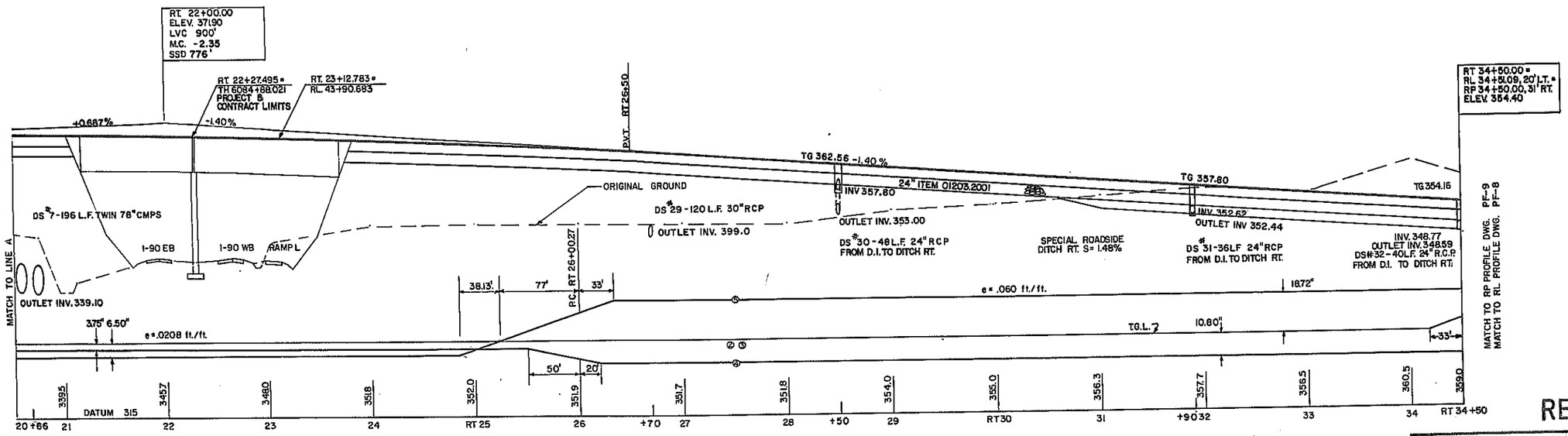
HC 47-2 (5/76)

D96243

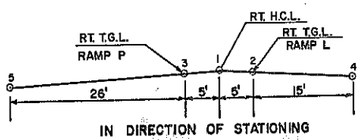
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	106R)	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY- DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY





RT (RAMPS P&L)



REVISIONS

RT PROFILE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
PF-5	HORZ. 1"=50' VERT. 1"=10'	4/79	REGION 1

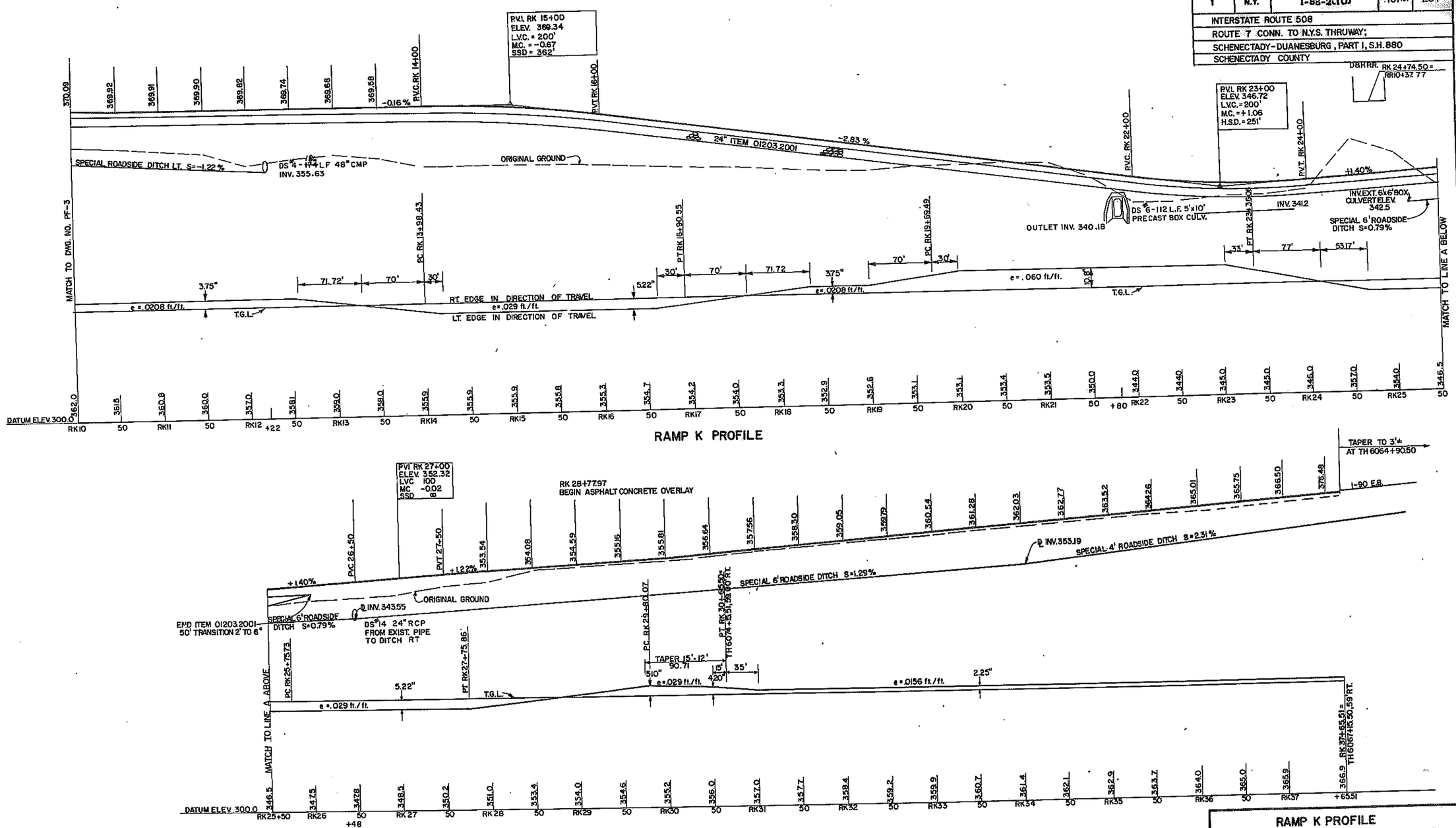
DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	107(2)	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



RAMP K PROFILE

RAMP K PROFILE

REVISIONS

RAMP K PROFILE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

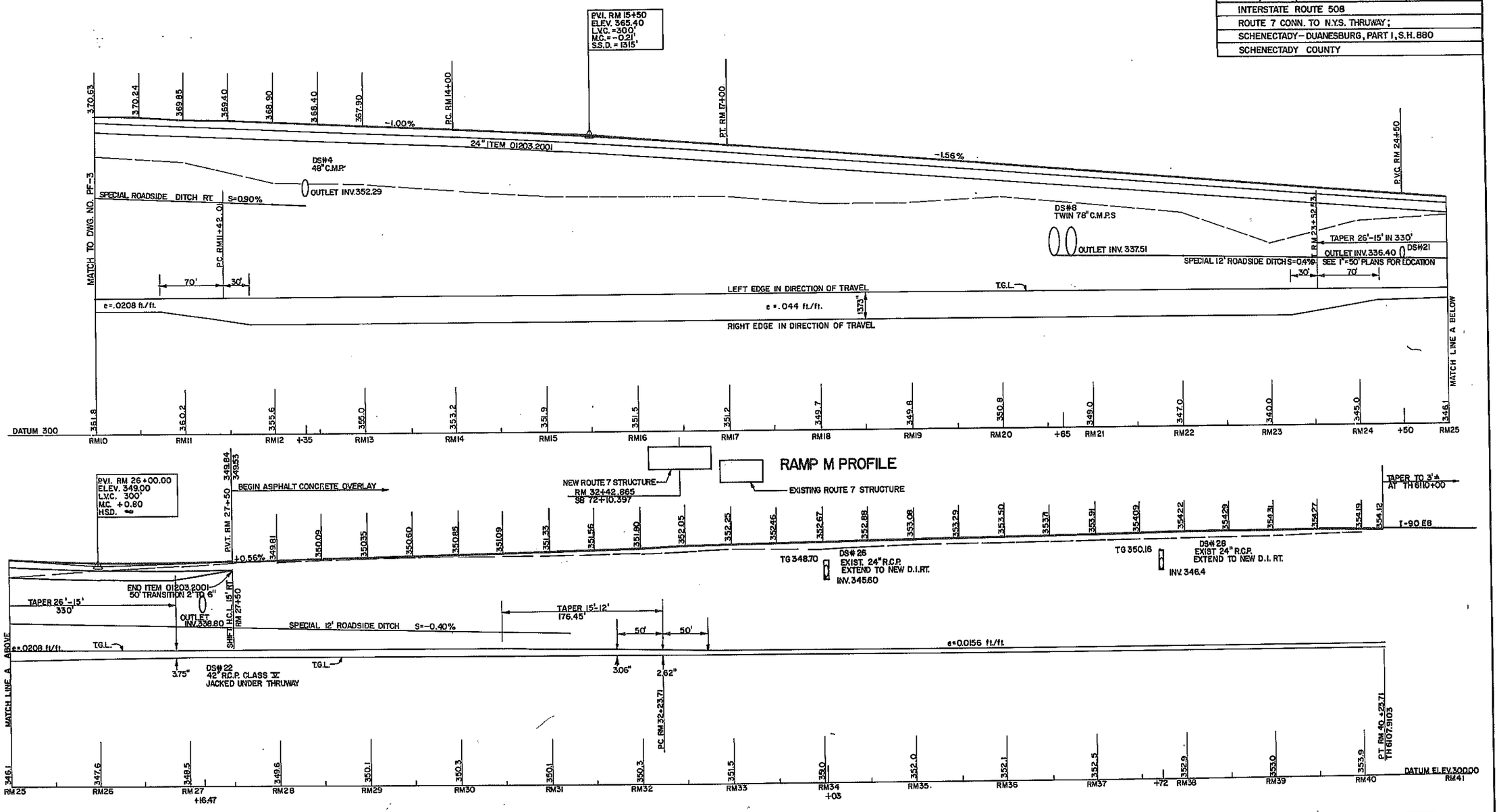
DRAWING No.	SCALE	DATE	REGION
PF-6	1"=50' HORIZ. 1"=10' VERT.	4/79	1

DATE
DATE
CHECKED BY
DRAFTED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
FC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	108	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY–DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



RAMP M PROFILE

RAMP M PROFILE

RAMP M PROFILE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PF-7	HORIZ: 1" = 50' VERT: 1" = 10'	4/79	I

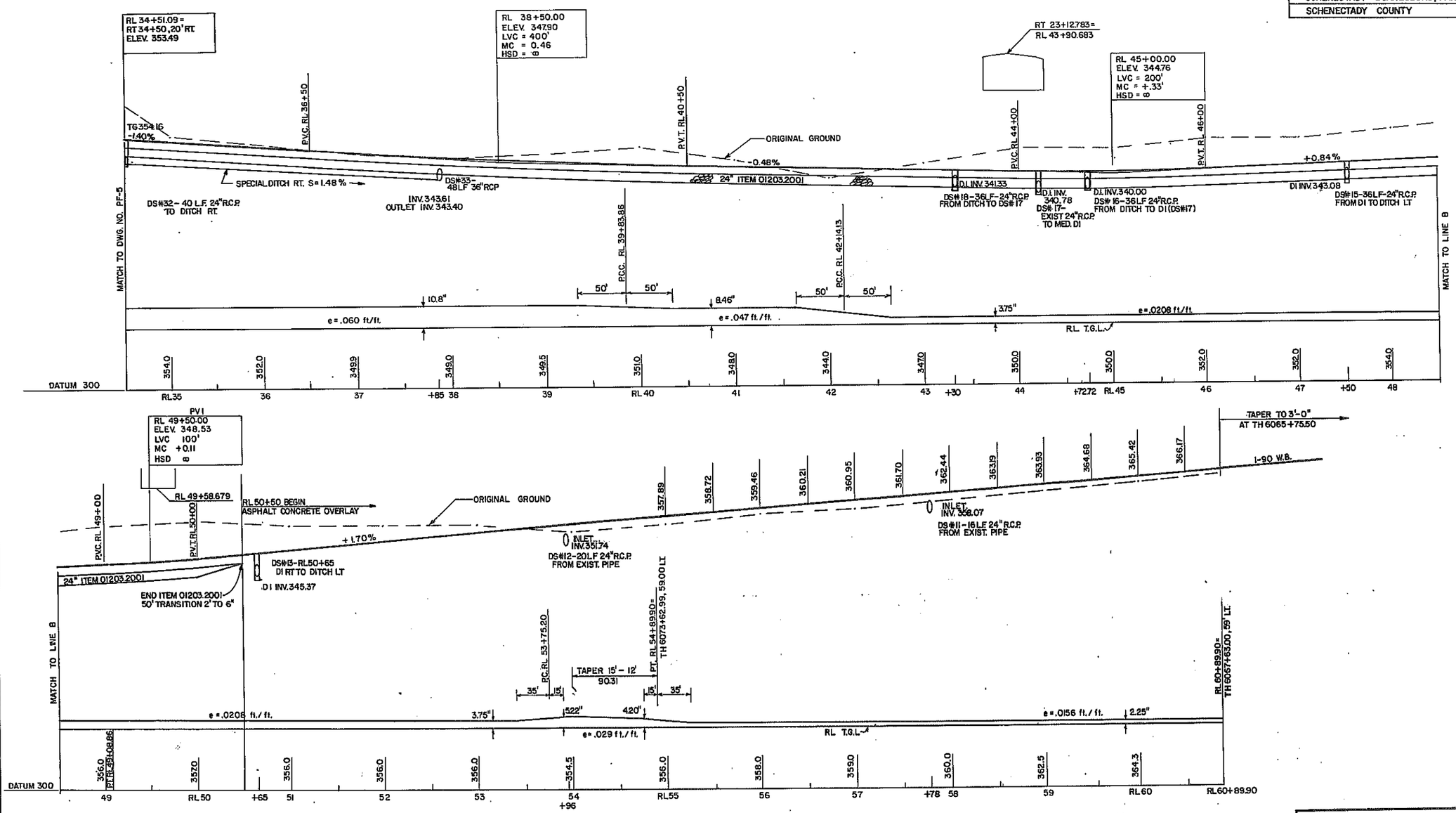
DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF

IE 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	109	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



RAMP L PROFILE

RAMP L PROFILE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
PF-8	HORZ. 1" = 50' VERT. 1" = 10'	4/79	1

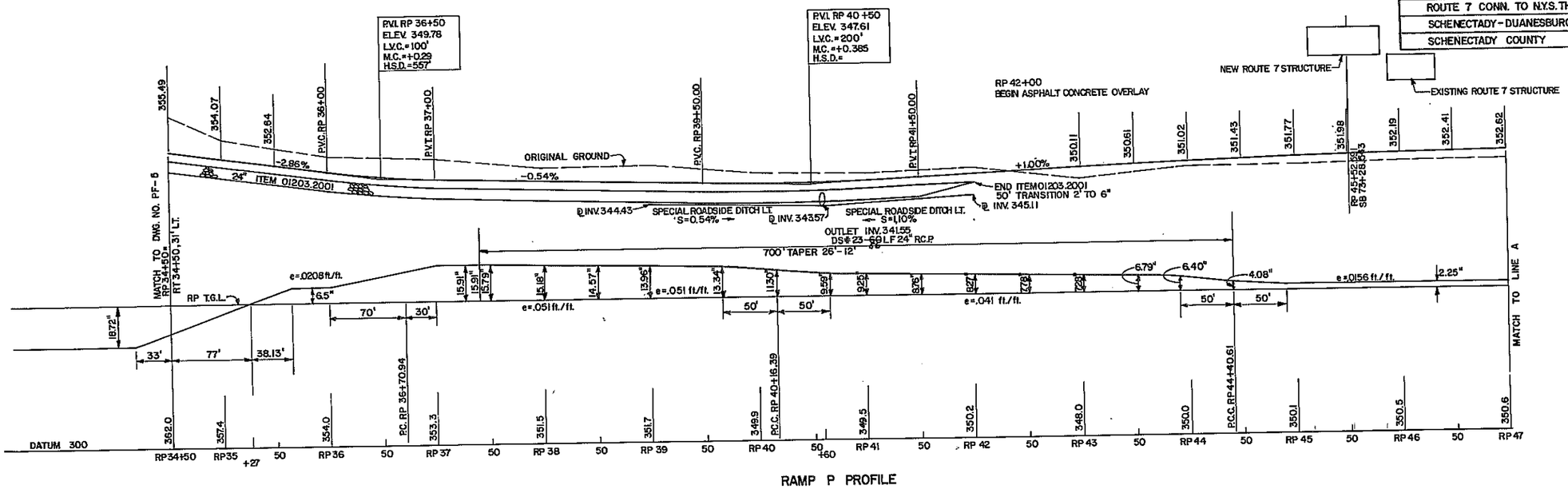
DATE
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF

HC 47-2 (5/76)

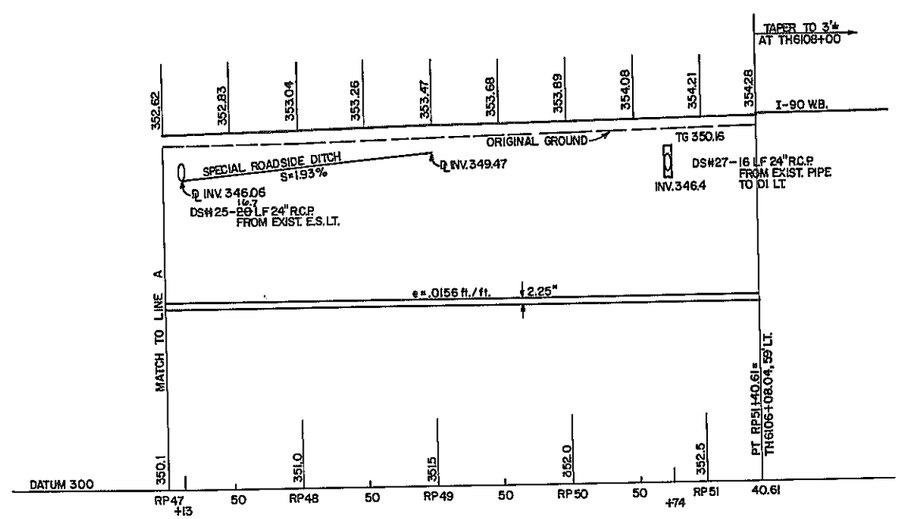
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	110R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



RAMP P PROFILE



RAMP P PROFILE

REVISIONS

RAMP P PROFILE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
PF-9	HORIZ. 1"=50' VERT. 1"=10'	9/78	REGION 1

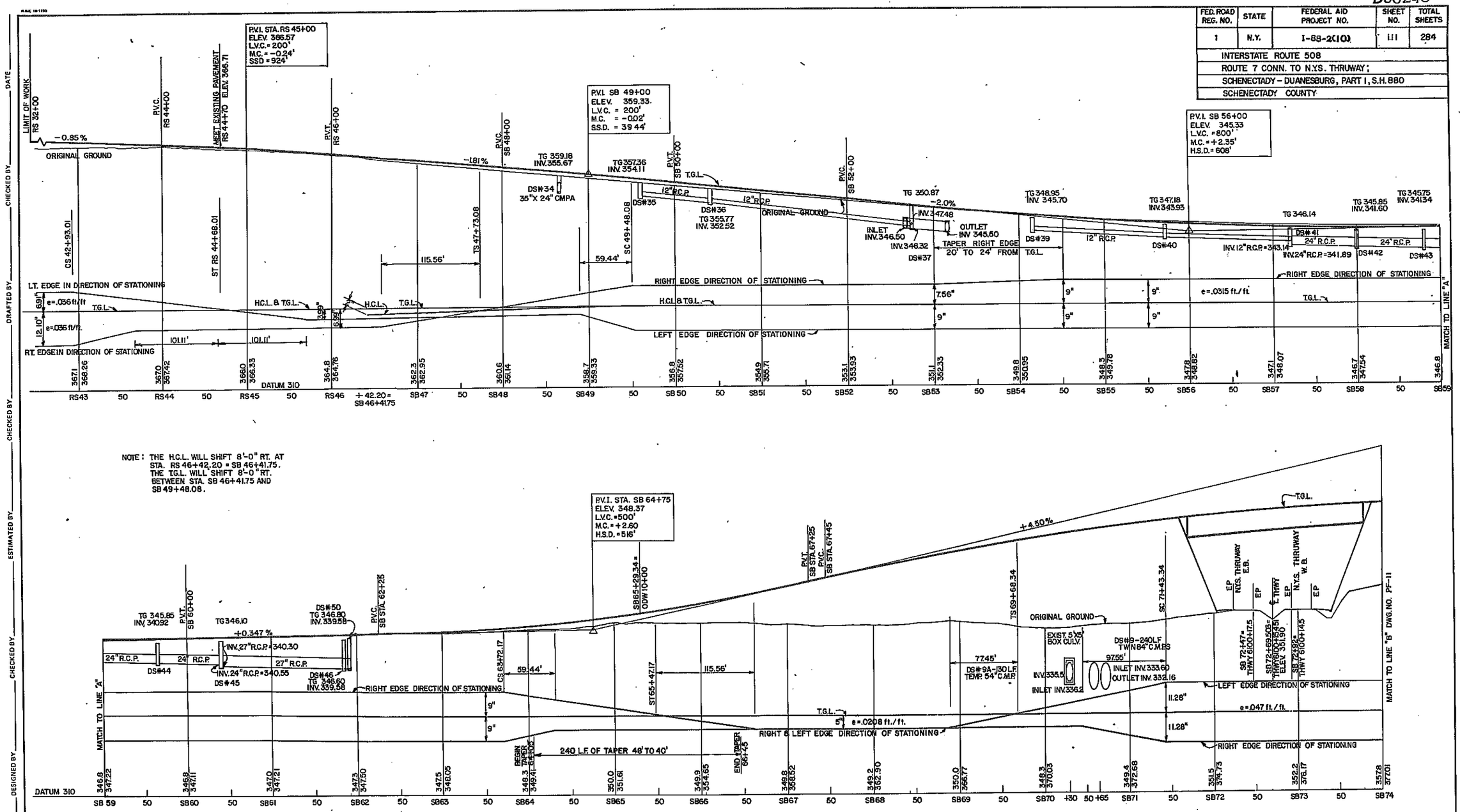
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HE 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	111	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



RELOCATED ROUTE 7 PROFILE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
PF-10	HORIZ. 1" = 50' VERT. 1" = 10'	3/79	REGION 1

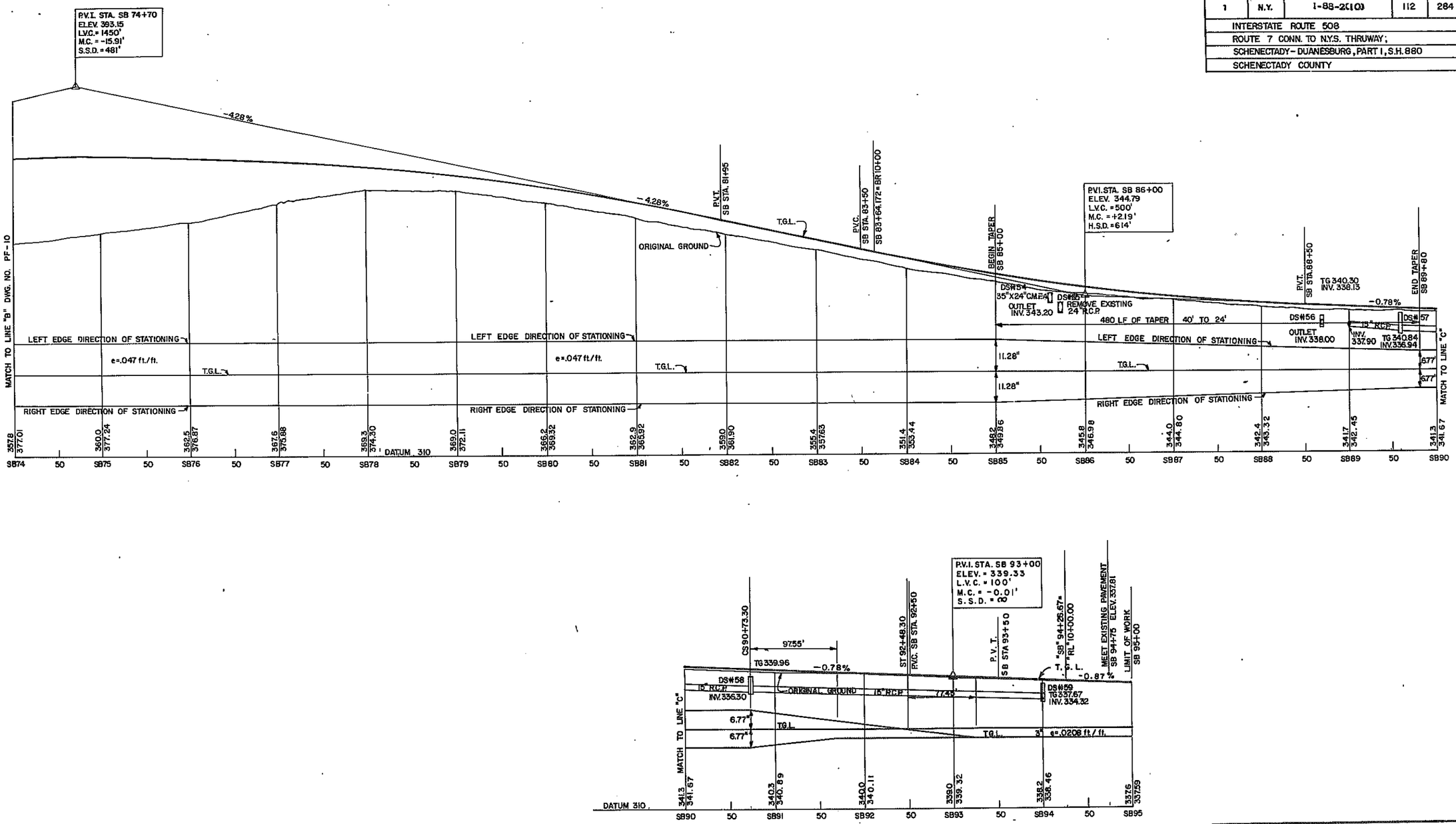
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	112	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



RELOCATED ROUTE 7 PROFILE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
PF-11	HORIZ. 1"=50' VERT. 1"=10'	1/79	REGION 1

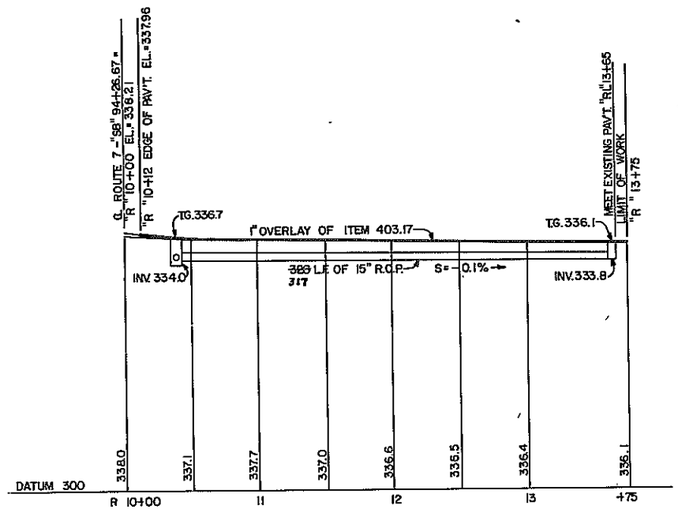
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ CHECKED BY ____ ESTIMATED BY ____ DESIGNED BY ____ IN CHARGE OF ____

RE 47-2 (5/76)

D96243

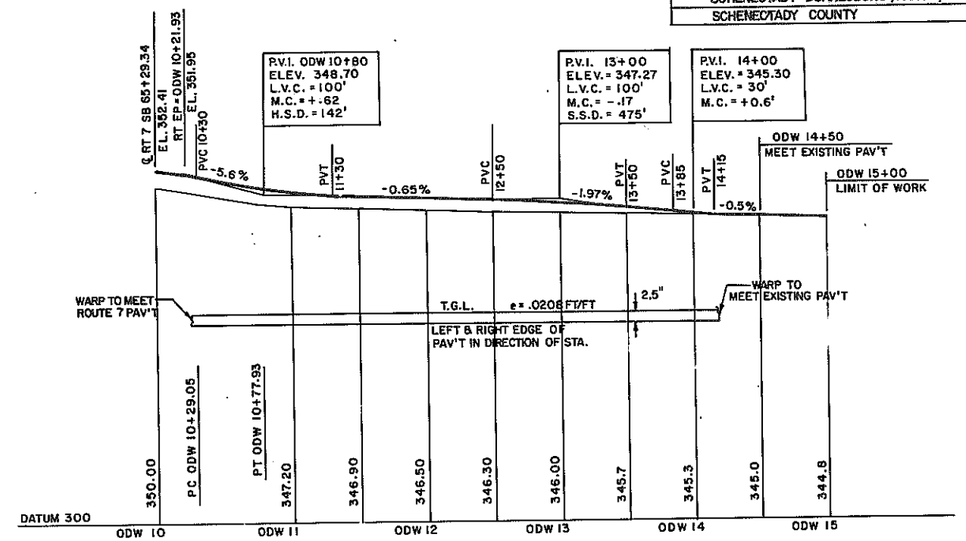
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	113R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



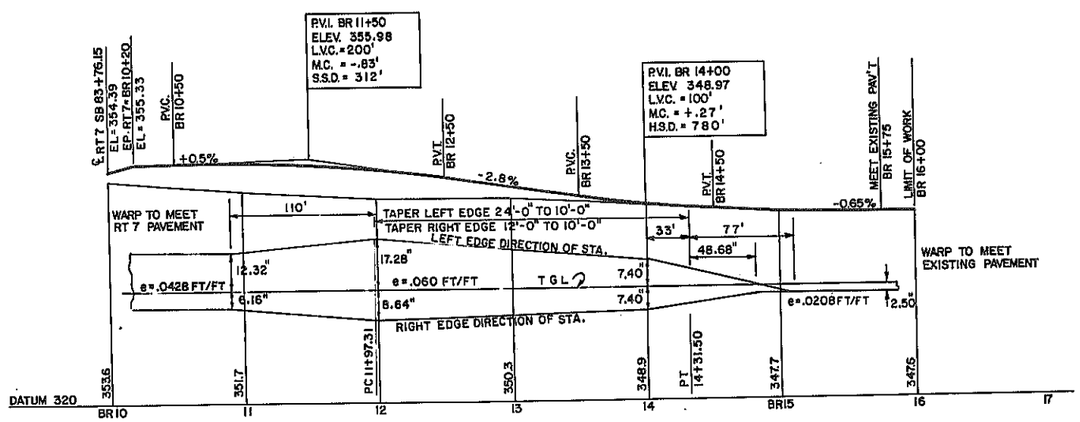
RISOLI LANE PROFILE

SCALE: 1"=50' HORIZ.
1"=10' VERT.



OLD DUANESBURG ROAD CONNECTOR (WEST)

SCALE: 1"=10' VERTICAL
1"=50' HORIZONTAL



BURDECK ROAD PROFILE

REVISIONS

1"=50' SCALE PROFILE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
PF-12	HORIZ. 1"=50' VERT. 1"=10'	4/79	REGION 1

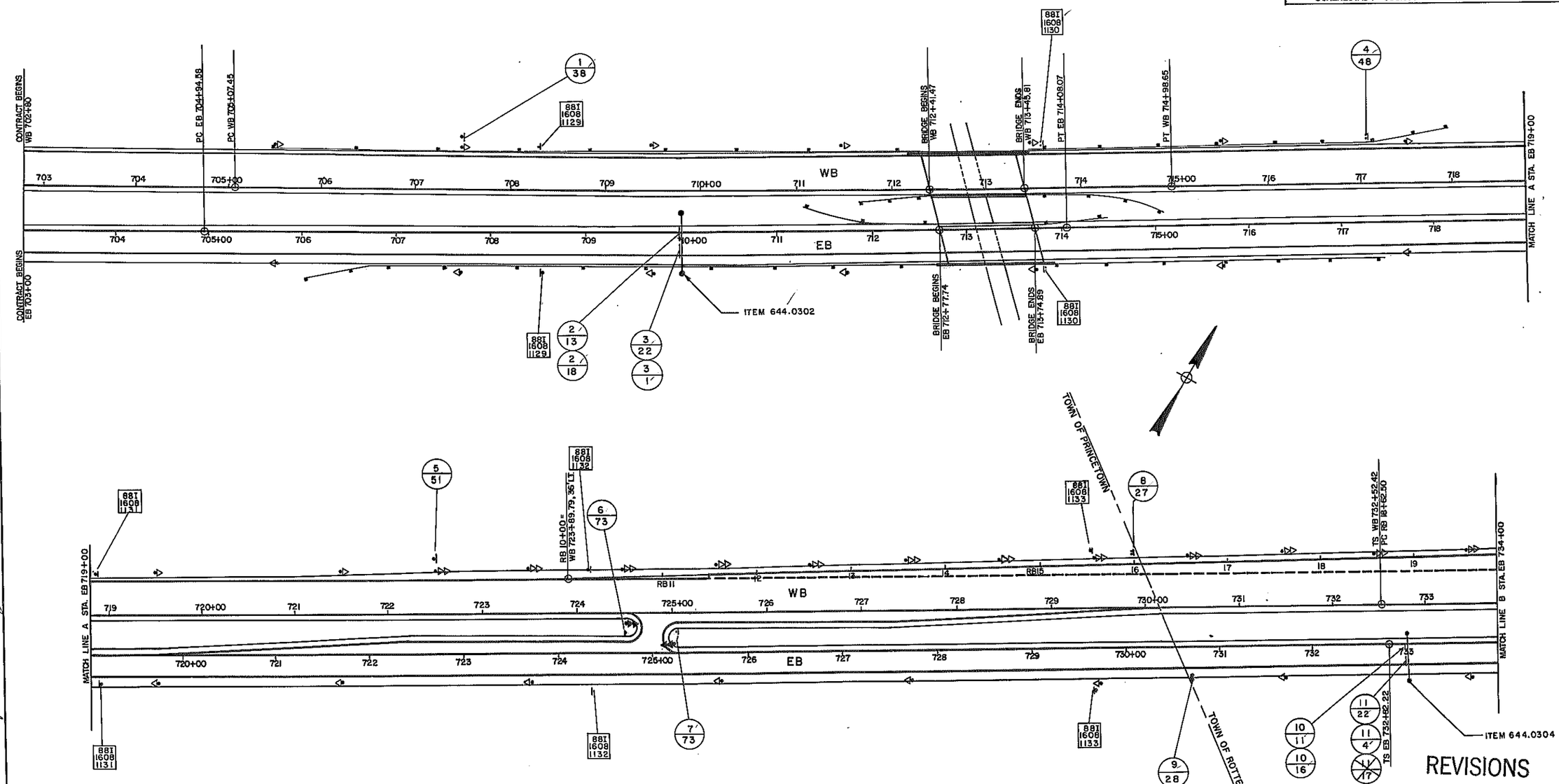
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY ____ DESIGNED BY ____ IN CHARGE OF ____

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	114R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



REVISIONS

SIGN & DELINEATOR LOCATIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
SOL-1	1"=50'	4/79	REGION 1

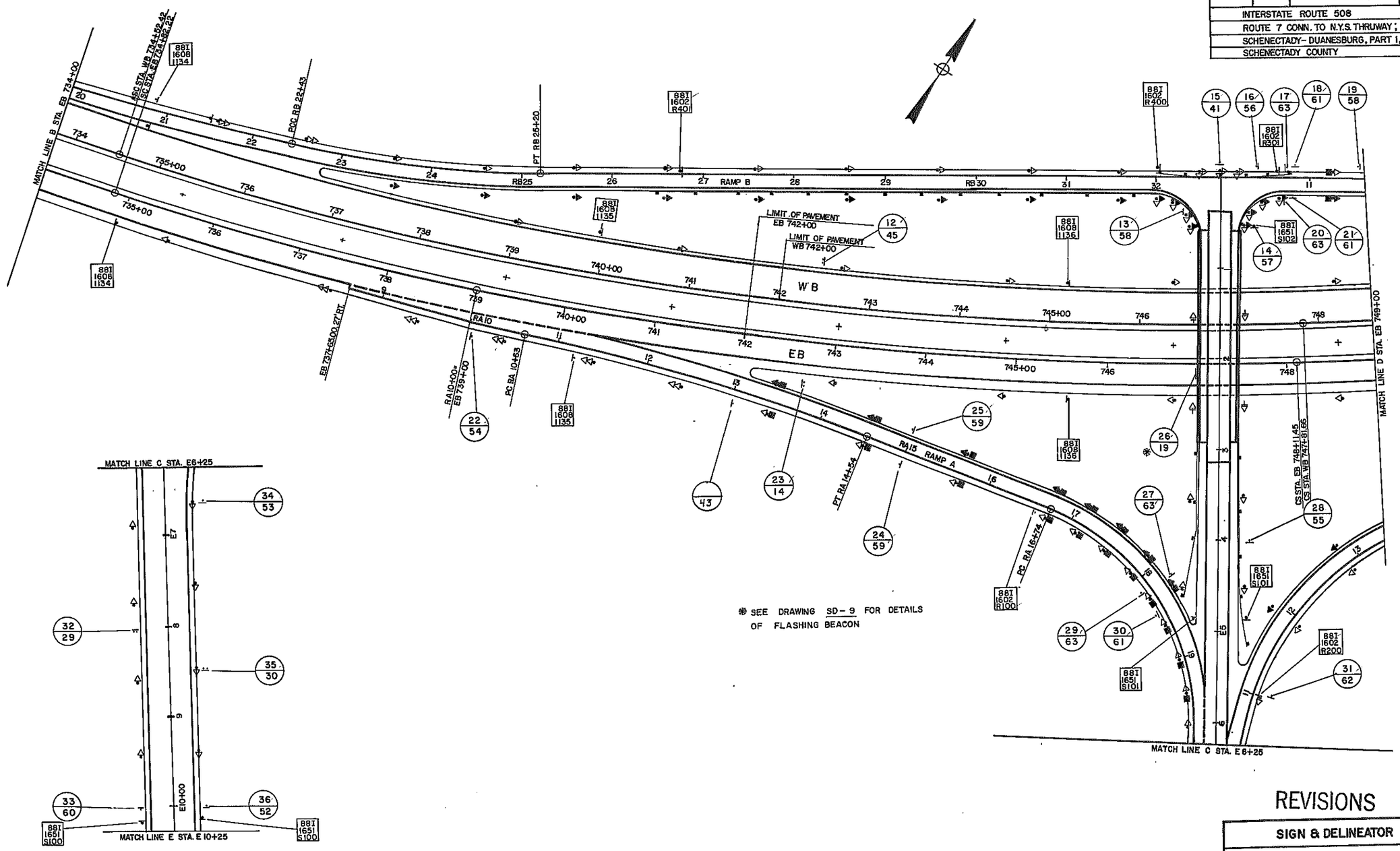
DATE 7/79 CHECKED BY DRAFTED BY CHECKED BY ESTIMATED BY CHECKED BY DESIGNED BY IN CHARGE OF

BC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	115R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY- DUANESBURG, PART 1, S.H.880
SCHENECTADY COUNTY



* SEE DRAWING SD-9 FOR DETAILS OF FLASHING BEACON

REVISIONS

SIGN & DELINEATOR LOCATION

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

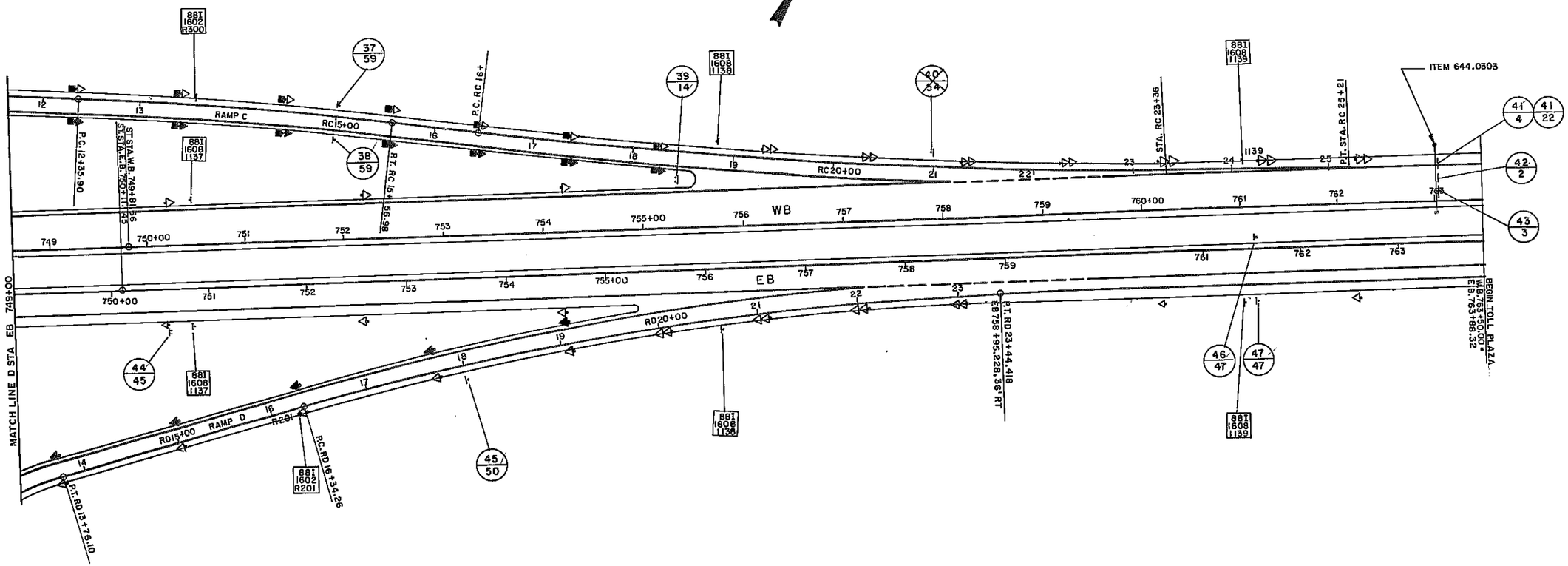
DRAWING No.	SCALE	DATE	
SDL-2	1"=50'	4/79	REGION 1

DATE 7/79
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	116R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



REVISIONS

SIGN AND DELINEATOR LOCATIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

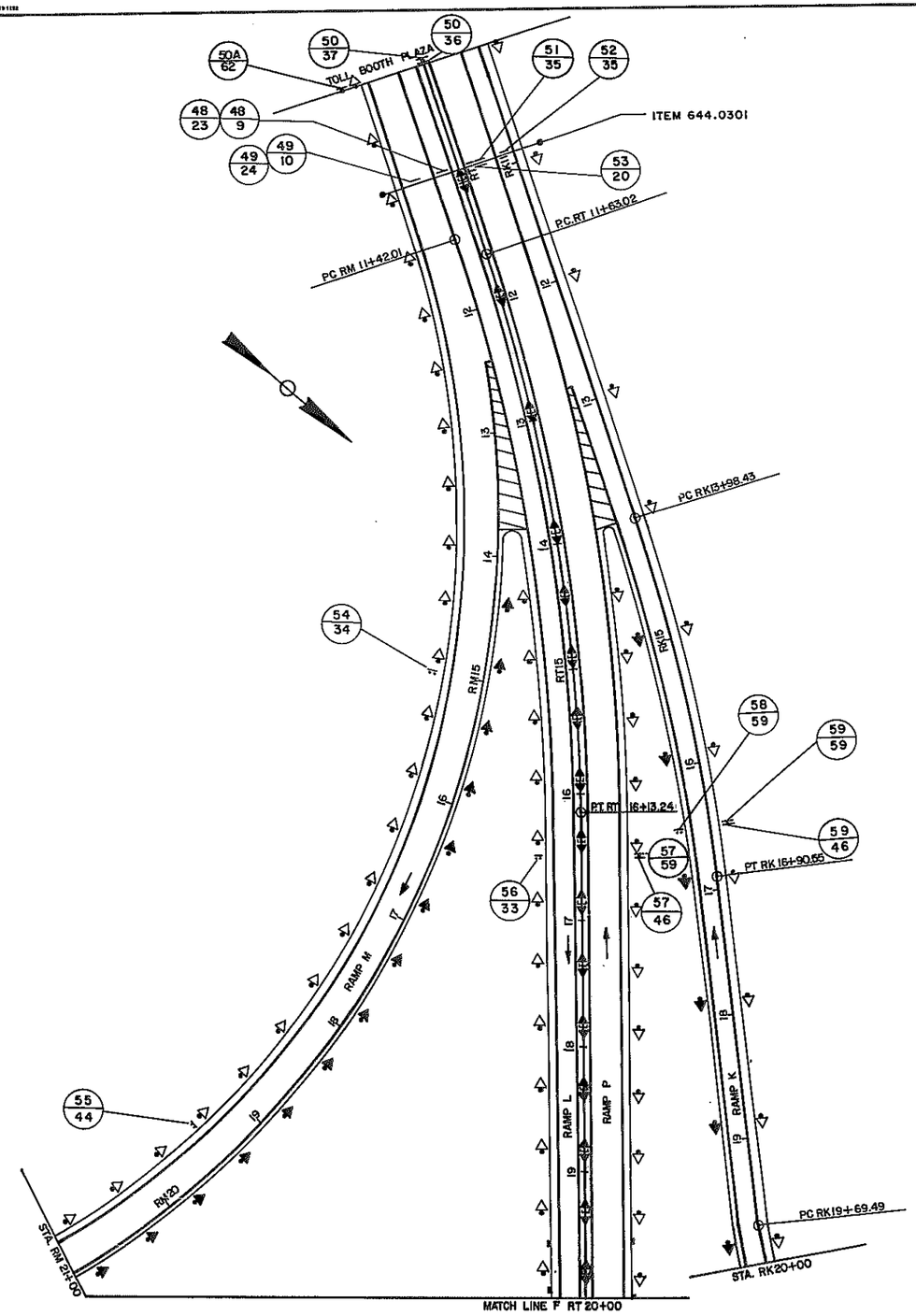
DRAWING No.	SCALE	DATE	REGION
SDL-3	1"=50'	4/79	REGION 1

DATE 7/79
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	117	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



SIGN & DELINEATOR LOCATIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

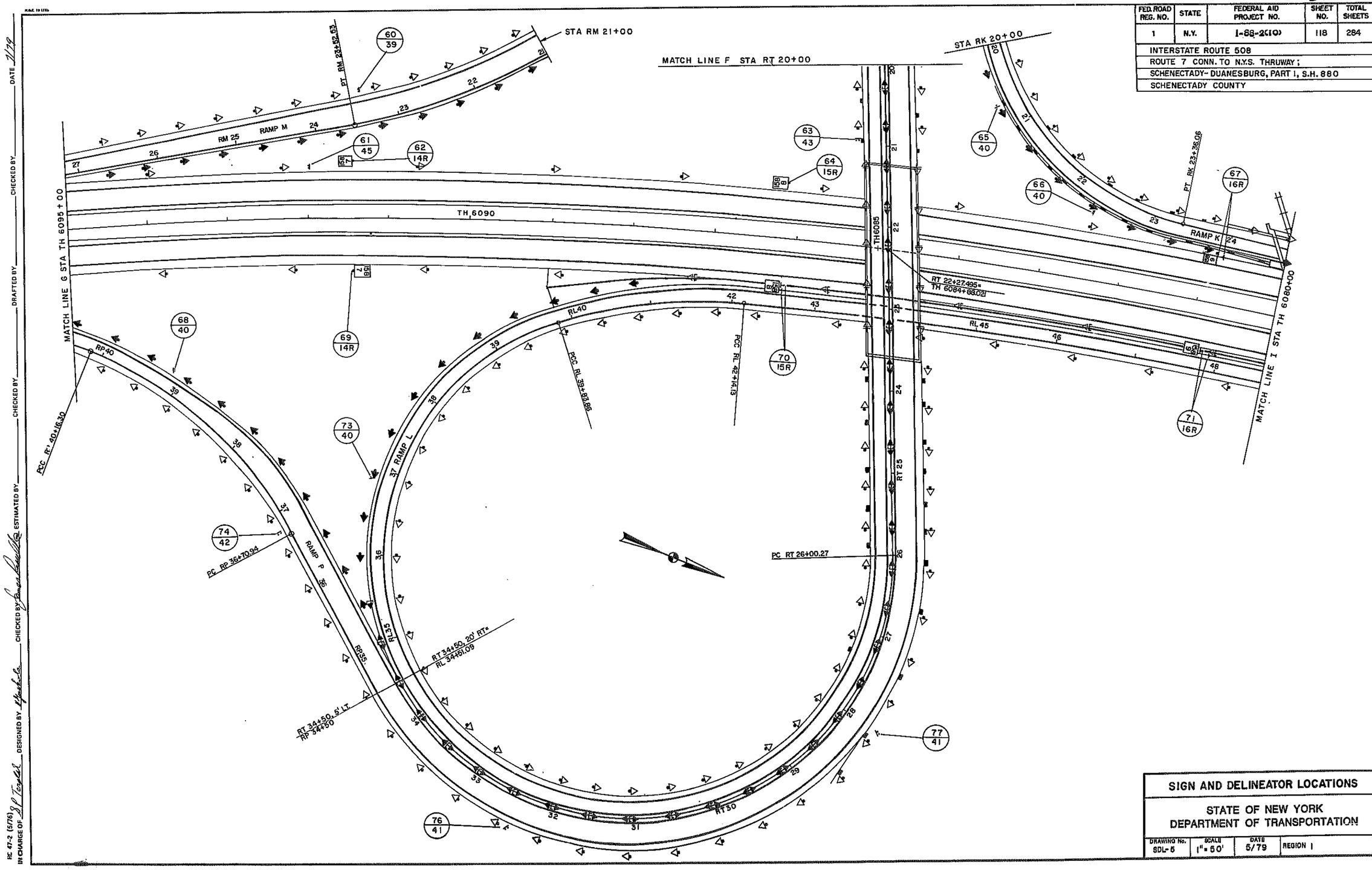
DRAWING No.	SCALE	DATE	REGION
SDL-4	1"=50'	5/79	1

IC 47-2 (5/76) IN CHARGE OF DESIGNED BY CHECKED BY ESTIMATED BY DRAFTED BY CHECKED BY CHECKED BY DATE 7/78

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	118	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



SIGN AND DELINEATOR LOCATIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

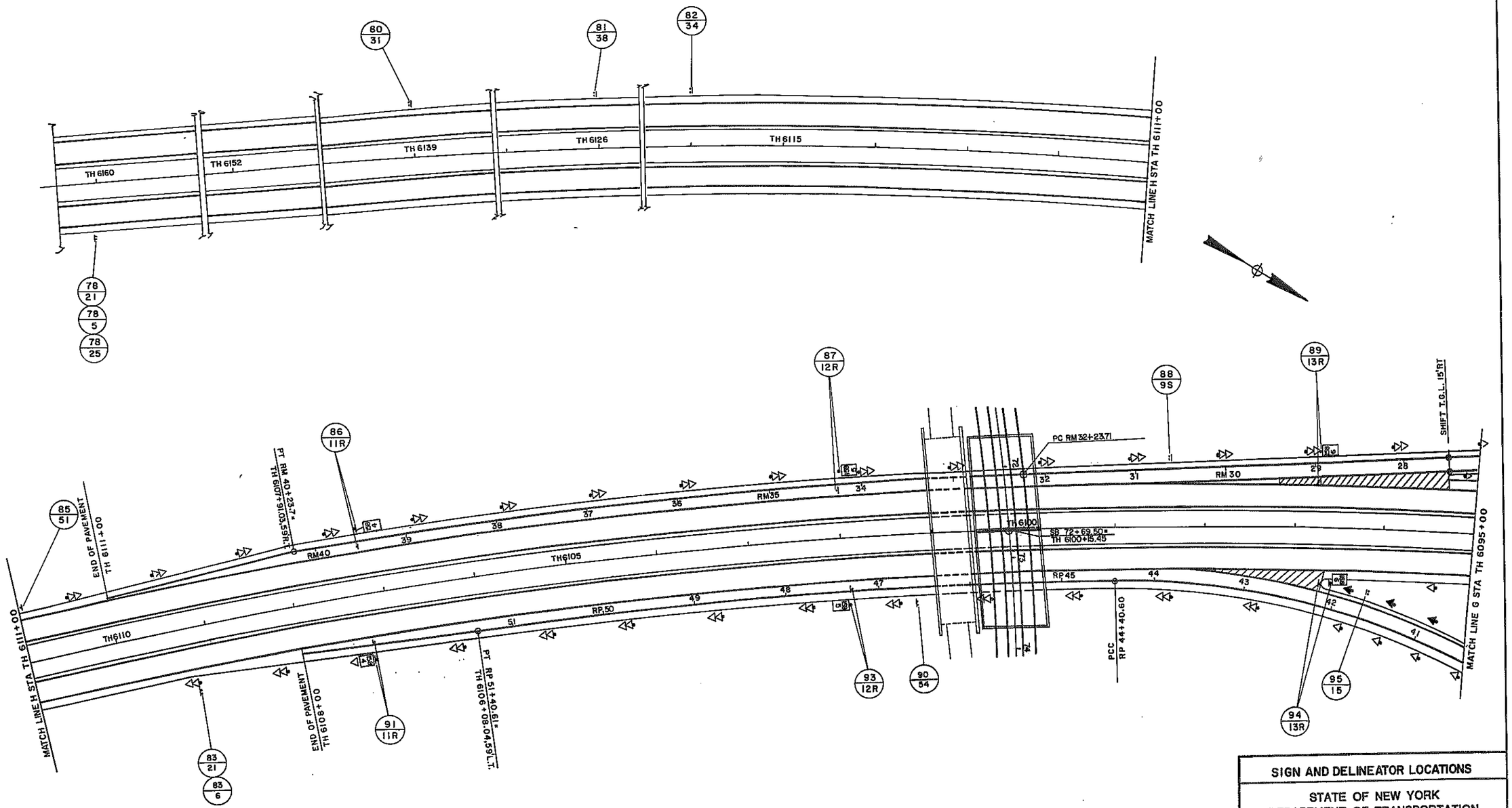
DRAWING No.	SCALE	DATE	REGION
SDL-5	1" = 50'	5/79	1

DATE 7/79
CHECKED BY
DRAFTED BY
CHECKED BY
DESIGNED BY
CHECKED BY
ESTIMATED BY
IN CHARGE OF
RC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	119	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY - DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



SIGN AND DELINEATOR LOCATIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

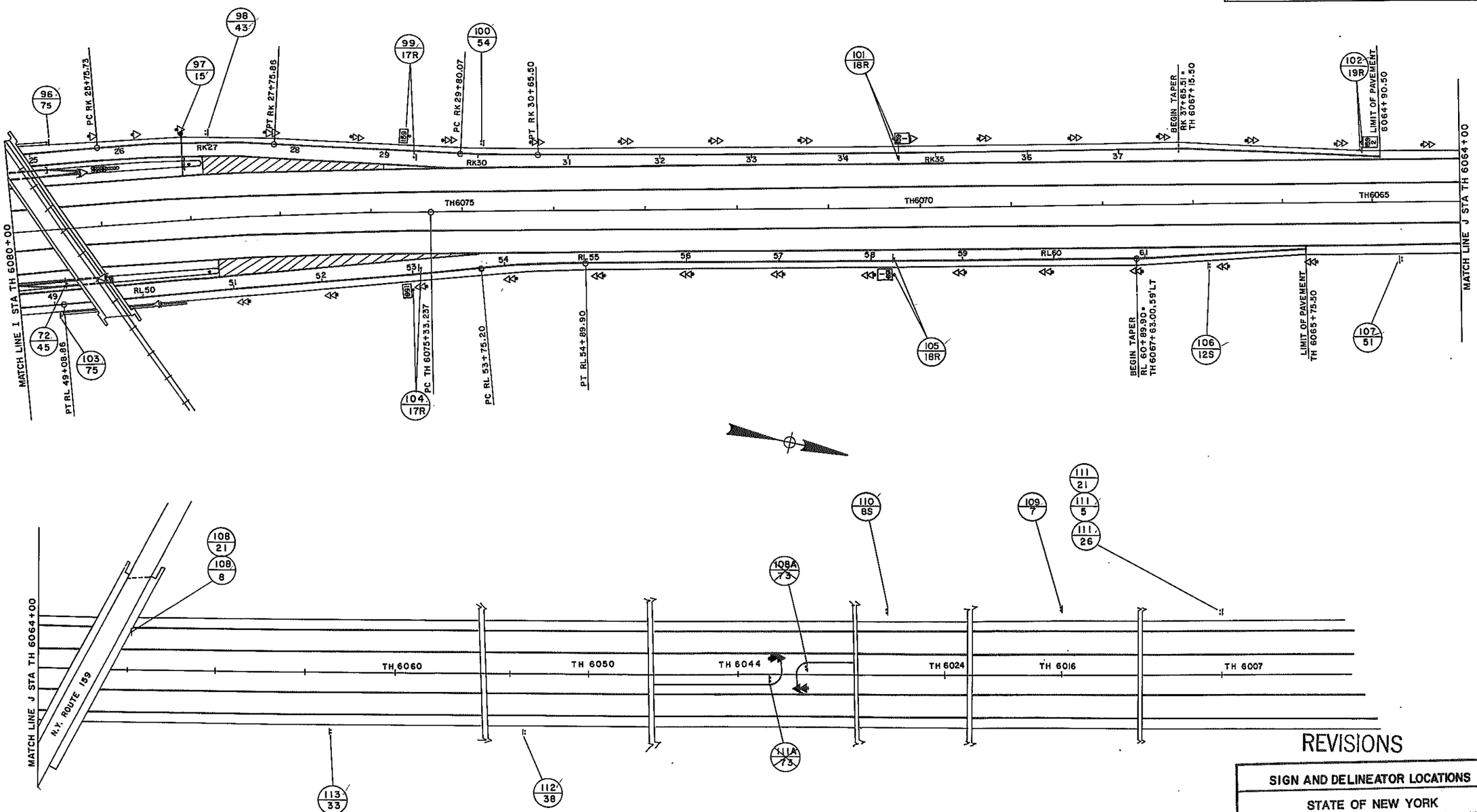
DRAWING No.	SCALE	DATE	REGION
SDL-6	1" = 50'	4/79	1

DATE 7/79
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
ESC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	120R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



REVISIONS

SIGN AND DELINEATOR LOCATIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

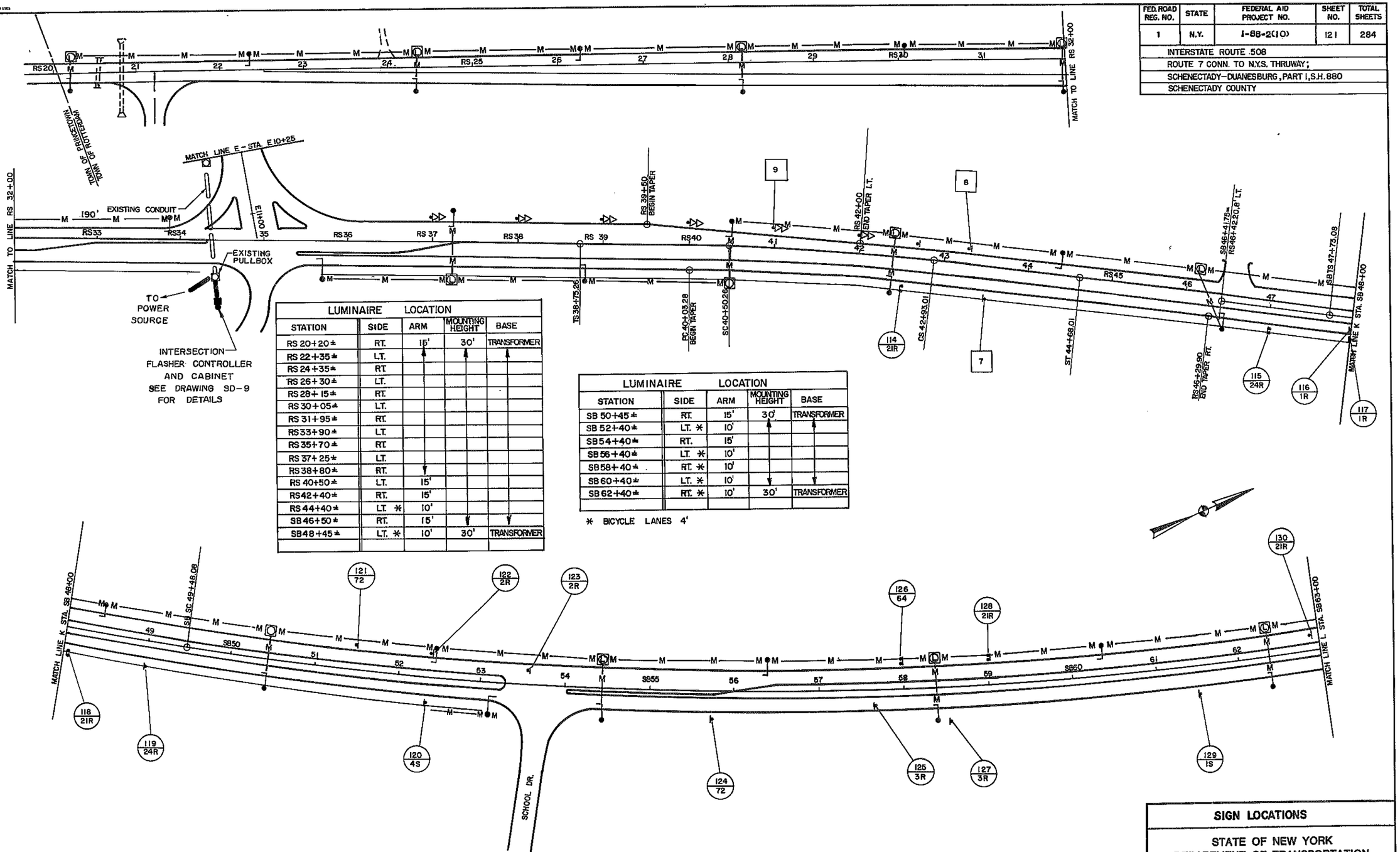
DRAWING No.	SCALE	DATE	REGION
SDL-7	1" = 50'	5/79	I

DATE 2/79
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	121	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



LUMINAIRE LOCATION				
STATION	SIDE	ARM	MOUNTING HEIGHT	BASE
RS 20+20±	RT.	15'	30'	TRANSFORMER
RS 22+35±	LT.			
RS 24+35±	RT.			
RS 26+30±	LT.			
RS 28+15±	RT.			
RS 30+05±	LT.			
RS 31+95±	RT.			
RS 33+90±	LT.			
RS 35+70±	RT.			
RS 37+25±	LT.			
RS 38+80±	RT.			
RS 40+50±	LT.	15'		
RS 42+40±	RT.	15'		
RS 44+40±	LT. *	10'		
SB 46+50±	RT.	15'		
SB 48+45±	LT. *	10'	30'	TRANSFORMER

LUMINAIRE LOCATION				
STATION	SIDE	ARM	MOUNTING HEIGHT	BASE
SB 50+45±	RT.	15'	30'	TRANSFORMER
SB 52+40±	LT. *	10'		
SB 54+40±	RT.	15'		
SB 56+40±	LT. *	10'		
SB 58+40±	RT. *	10'		
SB 60+40±	LT. *	10'		
SB 62+40±	RT. *	10'	30'	TRANSFORMER

* BICYCLE LANES 4'

DATE 7/79
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
TE 47-2 (5/76)

SIGN LOCATIONS

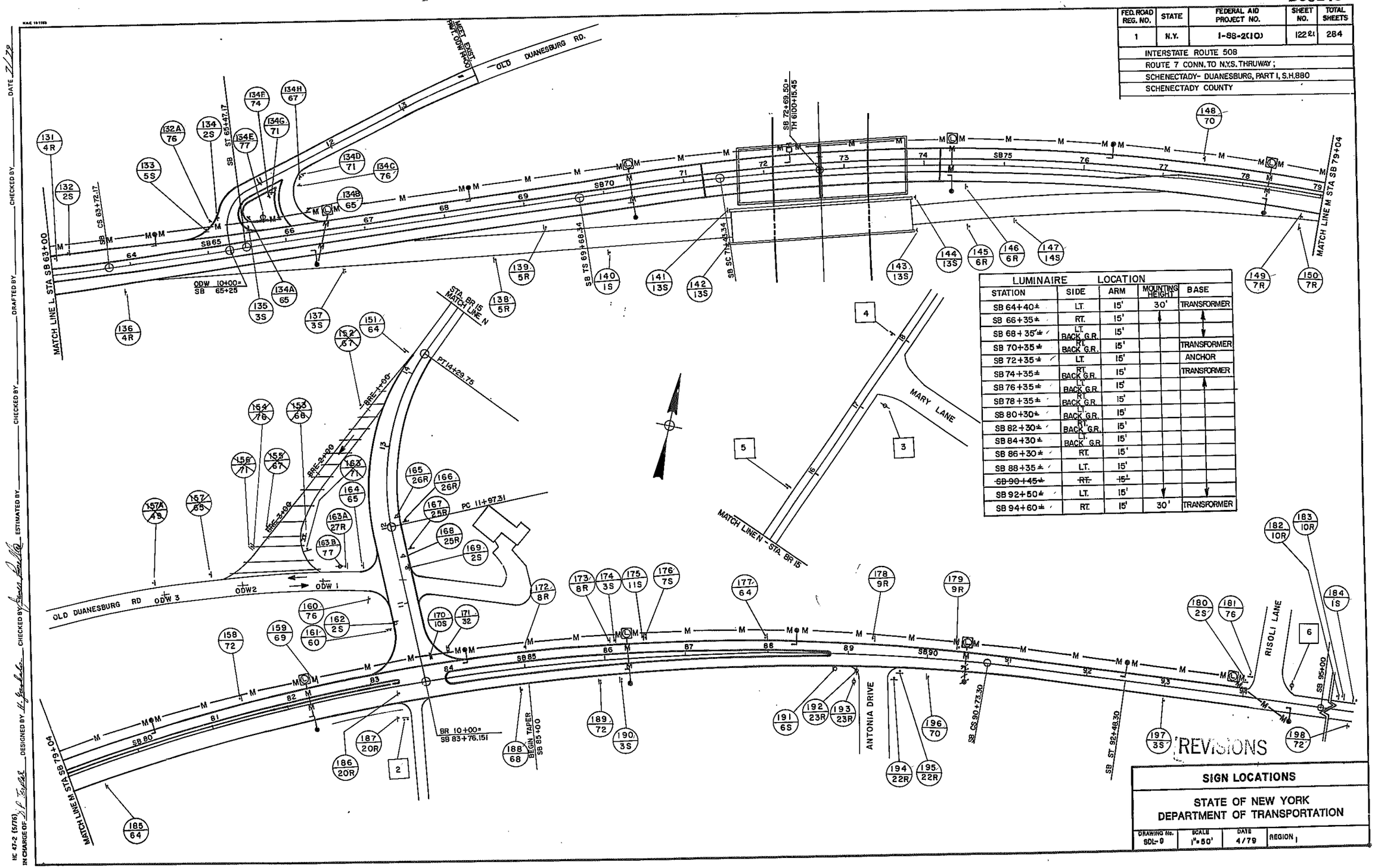
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
SDL-8	1"=50'	4/79	REGION 1

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	122	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY- DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



LUMINAIRE LOCATION				
STATION	SIDE	ARM	MOUNTING HEIGHT	BASE
SB 64+40±	LT.	15'	30'	TRANSFORMER
SB 66+35±	RT.	15'	↓	↕
SB 68+35±	LT. BACK G.R.	15'		
SB 70+35±	RT. BACK G.R.	15'		TRANSFORMER
SB 72+35±	LT.	15'		ANCHOR
SB 74+35±	RT. BACK G.R.	15'		TRANSFORMER
SB 76+35±	LT. BACK G.R.	15'		
SB 78+35±	RT. BACK G.R.	15'		
SB 80+30±	LT. BACK G.R.	15'		
SB 82+30±	RT. BACK G.R.	15'		
SB 84+30±	LT. BACK G.R.	15'		
SB 86+30±	RT.	15'		
SB 88+35±	LT.	15'		
~~SB 90+45±~~	~~RT.~~	~~15'~~		
SB 92+50±	LT.	15'		
SB 94+60±	RT.	15'	30'	TRANSFORMER

REVISIONS

SIGN LOCATIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

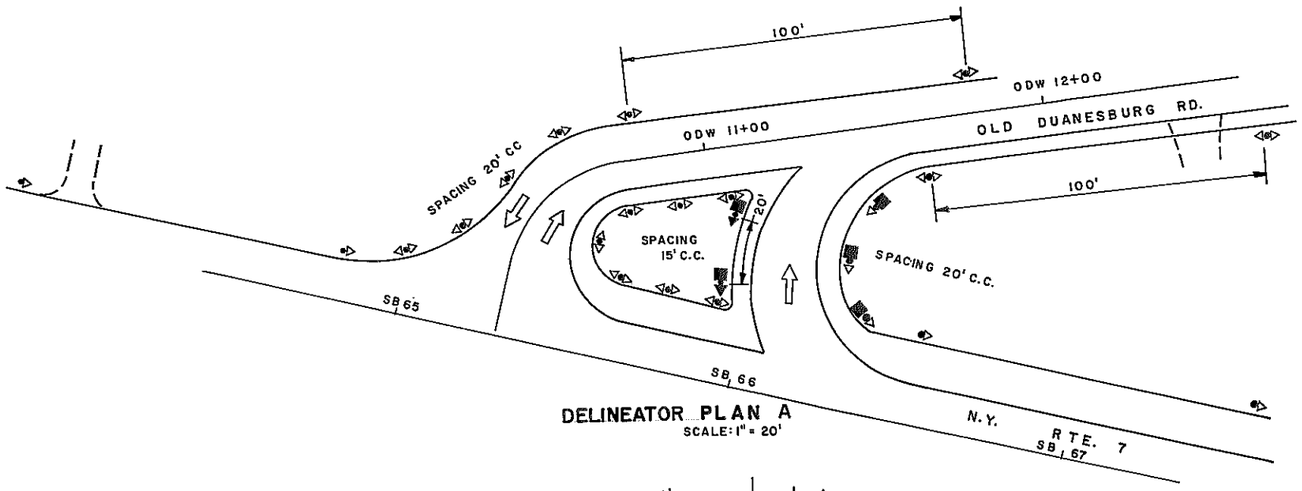
DRAWING No.	SCALE	DATE	REGION
SOL-9	1"=50'	4/79	1

DATE 7/79
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
IIC 47-2 (5/76)

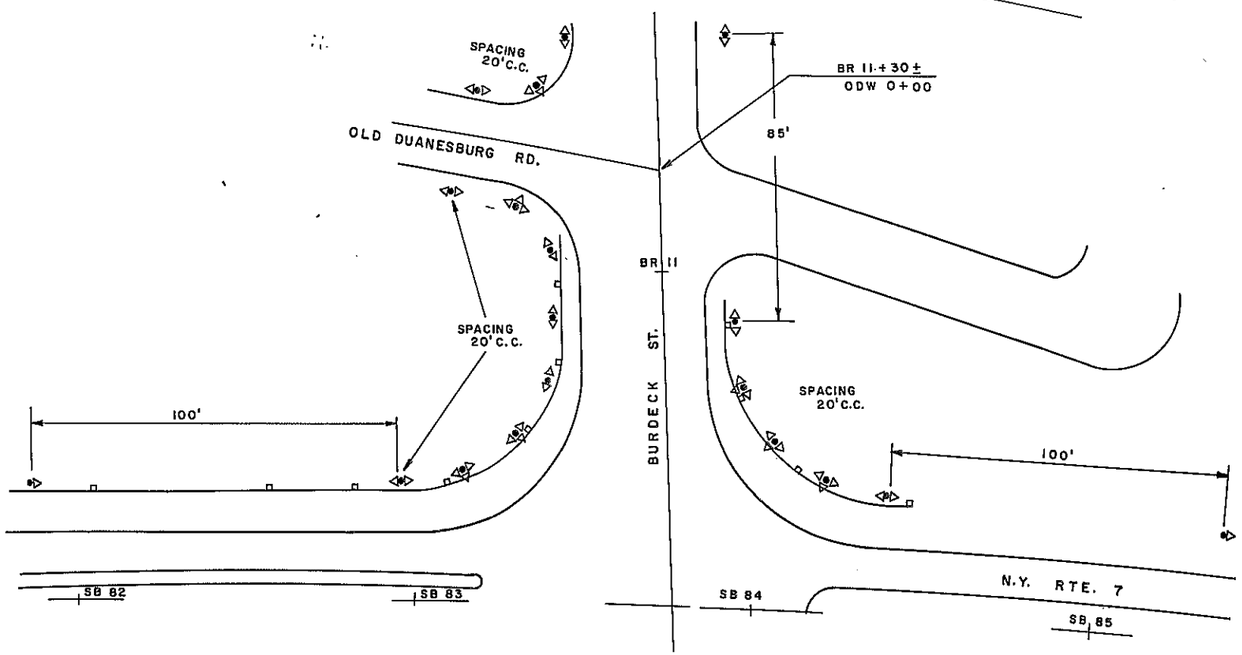
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	123	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



DELINEATOR PLAN A
SCALE: 1" = 20'



DELINEATOR PLAN B.
SCALE: 1" = 20'

DELINEATOR LOCATION

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
SDL-10	1" = 20'	7/79	1

DATE 7/79
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
BE 47-2 (5/76)

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	124 R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, SH. 880
SCHENECTADY COUNTY

SIGN TEXT DATA SHEET

SIGNS TO BE INSTALLED

ITEM NO.	LOCATION NO.	TEXT NO.	TEXT	LETTER SIZE	APPROX. SIZE OF SIGN	M.U.T.C.D. NO.	COLOR BACKGROUND	COLOR CHARACTERS	TYPE OF MOUNTING
645.14	3	1	(7) Rotterdam Schenectady ½ MILE	45"X36" SHIELD 16" L.C. 12" L.C. 10" CAPS SERIES "E"	15.5'X ~~10.5'~~ 11.5'	D6	G-Refl.	W-Refl.	O.H.
645.14	42	2	SLOW MOVING VEHICLES ↓	TYPE IV SERIES "D" 12" CAPS TYPE "C" ARROW 26.7"X 18.4"	8'X 9.5'		W-Refl.	B-Refl.	O.H.
645.14	43	3	(88) WEST Binghamton ↓ ↓	36"X36" SHIELD 16" U.C. 12" L.C. SERIES "E" TYPE "C" ARROWS 32"X 22"	17.0'X 10'	D6	G-Refl.	W-Refl.	O.H.
645.14	11,41	4	(7) Rotterdam Schenectady ↗	45"X36" SHIELD 16" U.C. 12" L.C. ARROW 22.2"X25"X60° SERIES "E"	19'X ~~9'~~ 10'	D6 AND D5	G-Refl.	W-Refl.	O.H.
645.07 645.35(4)	78,111	5	(88) (7) Schenectady Binghamton 1 MILE	36"X36", 45"X36" SHIELDS 20" U.C. 15" L.C. 12" CAPS SERIES "E"	18.5'X 13.5'	D4	G-Refl.	W-Refl.	GR. MTD.
645.07 645.35(2)	83	6	(88) (7) Schenectady Binghamton ↗	36"X36", 45"X36" SHIELDS 20" U.C. 15" L.C. 20"X20"X45° ARROW SERIES "E"	18.5'X 14'	D5	G-Refl.	W-Refl.	GR. MTD.
645.07 645.31(2)	109	7	Rotterdam Oneonta EXIT 25A	13.3" U.C. 10.0" L.C. 10" & 15" CAPS SERIES "E"	11'X 6.5'	D7A-2	G-Refl.	W-Refl.	GR. MTD.
645.14	108	8	(88) (7) Schenectady Binghamton ↗	36"X36", 45"X36" SHIELDS 16" U.C. 12" L.C. SERIES "E" 22.2"X25"X60° ARROW	19'X 9.5'	D6 AND D5	G-Refl.	W-Refl.	O.H. BRIDGE
645.14	48	9	(90) WEST Buffalo ↓	24"X 24" SHIELD 10" CAPS 13.3" U.C. 10.0" L.C. SERIES "E" 18"X26" ARROW	~~9'~~ 13.5'X 8'	D6-0	G-Refl.	W-Refl.	O.H.
645.14	49	10	(90) EAST Albany ↗	24"X 24" SHIELD 10" CAPS 13.3" U.C. 10" L.C. SERIES "E" 10"X15"X60° ARROW	~~10'~~ X6' 12'	D6-0	G.-Refl.	W-Refl.	O.H.
645.14	10	11	(90) Albany Buffalo ↓ ↓	36"X36" SHIELD 36" Dia. T'way 16.0" U.C. 12.0" L.C. 32"X 22" TYPE "C" ARROWS SERIES "E"	17'X 12'	D6-0	G-Refl.	W-Refl.	O.H.
645.14	2	13	(90) Thruway	36"X36" SHIELD 16.0" U.C. 12.0" L.C. SERIES "E"	15'X 5'	D6	G-Refl.	W-Refl.	O.H.

SIGNS TO BE INSTALLED

ITEM NO.	LOCATION NO.	TEXT NO.	TEXT	LETTER SIZE	APPROX. SIZE OF SIGN	M.U.T.C.D. NO.	COLOR BACKGROUND	COLOR CHARACTERS	TYPE OF MOUNTING
645.07 645.30(4)	23,39	14	EXIT X X ↗	12" & 18" CAPS SERIES "E" 18"X45° ARROW	7.5'X5'	D6-G-2	G-Refl.	W-Refl.	GR. MTD.
645.30(2) 645.07 645.14	95,97	15	EXIT 25 A ↗	12" & 18" CAPS SERIES "E" 18"X45° ARROW	9.5'X5'	D6-G-3	G-Refl.	W-Refl.	95 GR. MTD. 97 O.H.
645.14	10	16	TOLL BOOTHS ½ MILE	12" & 18" CAPS SERIES "D"	11'X5'	W175-O	Y-Refl.	B-Refl.	O.H.
~~645.14~~	~~11~~	~~17~~	~~LAST EXIT BEFORE THRUWAY~~	~~12" CAPS SERIES "D"~~	~~14'X6'~~	~~W175-O~~	~~Y-Refl.~~	~~B-Refl.~~	~~O.H.~~
645.14	2	18	TOLL BOOTHS 1 MILE	12" & 18" CAPS SERIES "D"	11'X5'	W175-O	Y-Refl.	B-Refl.	O.H.
645.14	26	19	STOP AHEAD GET TICKET	12" CAPS SERIES "D"	10.5'X5'	W175-O	Y-Refl.	B-Refl.	O.H. BRIDGE
645.14	53	20	STOP AHEAD PAY TOLL	12" CAPS SERIES "D"	10.5'X5'	W175-O	Y-Refl.	B-Refl.	O.H.
645.16	78,83,108,111	21	EXIT 25A	10" & 15" CAPS SERIES "E"	~~13.5'~~ 11'X2.5'	D10-3	G-Refl.	W-Refl.	SEC. PANEL
645.16	3,11,41	22	EXIT X X	10" & 15" CAPS SERIES "E"	8.5'X 2.5'	D10-2	G-Refl.	W-Refl.	SEC. PANEL
645.16	48	23	EXITS 26-61	10" & 15" CAPS SERIES "E"	~~12.5'~~ 13.5'X 2.5'	D10-4	G-Refl.	W-Refl.	SEC. PANEL
645.16	49	24	EXITS 1-25	10" & 15" CAPS SERIES "E"	12.0'X2.5'	D10-4	G-Refl.	W-Refl.	SEC. PANEL
645.16	78	25	NEXT EXIT 5 MILES	10" CAPS SERIES "E"	15.5'X 2.5'	D11-1	G-Refl.	W-Refl.	SEC. PANEL
645.16	111	26	NEXT EXIT 7 MILES	10" CAPS SERIES "E"	15.5'X 2.5'	D11-1	G-Refl.	W-Refl.	SEC. PANEL
645.07	8	27	TOWN OF Princetown	TYPE IV 6" CAPS 8" U.C. / 6" L.C. SERIES "D"	5.5'X3'	D72	G-Refl.	W-Refl.	GR. MTD.
645.07	9	28	TOWN OF Rotterdam	TYPE IV 6" CAPS 8" U.C. / 6" L.C. SERIES "D"	5.5'X 3'	D72	G-Refl.	W-Refl.	GR. MTD.
645.07 645.30(2)	32	29	← ROTTERDAM 2 ← SCHENECTADY 4 DUANESBURG 8 →	TYPE IV 8" CAPS SERIES "D" ARROWS 8"X12"	~~10'~~ X5.3' 10.5'	D3A	G-Refl.	W-Refl.	GR. MTD.
645.07	35	30	← BINGHAMTON 120 ALBANY 12 ↗ BUFFALO 265 ↗	TYPE IV 8" CAPS SERIES "D" ARROWS 8"X12"	11'X5.3'	D3A	G-Refl.	W-Refl.	GR. MTD.
645.07 645.31(2)	80	31	Albany 10 New York 158	TYPE IV 13.3" U.C. 10.0" L.C. SERIES "E"	14.5'·5'	D16-2	G-Refl.	W-Refl.	GR. MTD.
645.07	171	32	BURDECK ST	TYPE IV 4" AND 2" CAPS SERIES "D"	3.5'·1.0'	D18	G-Refl.	W-Refl.	GR. MTD. BACK TO BACK

NOTES:
1. LETTERS, NUMERALS, SYMBOLS AND BORDERS OR ANY PARTS OF THESE SHALL HEREAFTER BE REFERRED TO AS "CHARACTERS"

LOCATION OF SIGNS

LOCATION NO.	TEXT NO.	STATION	SIDE
3	1	EB 710+00	O.H.
42	2	WB 763+00	O.H.
43	3	WB 763+00	O.H.
11	4	EB 733+00	O.H.
41	4	WB 763+00	O.H.
78	5	TH 6160+05	L.T.
111	5	TH 6007+00	L.T.
83	6	TH 6109+20	L.T.
109	7	TH 6016+00	L.T.
108	8	TH 6063+00	O.H. BRIDGE
48	9	RT 10+90	O.H.
49	10	RT 10+90	O.H.
10	11	EB 733+00	O.H.
2	13	EB 710+00	O.H.
23	14	EB 742+65	RT.
39	14	WB 755+35	LT.
95	15	TH 6096+15	LT.
97	15	~~RK 27+170~~ 26+50	C.S.M.
10	16	EB 733+00	O.H.
~~11~~	~~17~~	~~EB 733+00~~	~~O.H.~~
2	18	EB 710+00	O.H.
26	19	EB 747+00	O.H. BRIDGE
53	20	RT 10+90	O.H.
78	21	TH 6160+05	L.T.
83	21	TH 6109+20	L.T.
108	21	TH 6063+00	O.H. BRIDGE
111	21	TH 6007+00	L.T.
3	22	EB 710+00	O.H.
11	22	EB 733+00	O.H.
41	22	WB 763+00	O.H.
48	23	RT 10+90	O.H.
49	24	RT 10+90	O.H.
78	25	TH 6160+05	LT.
111	26	TH 6007+00	LT.
8	27	RB 16+00	LT.
9	28	EB 730+70	RT.
32	29	E 8+00	RT.
35	30	E 8+50	LT.
80	31	TH 6139+00	LT.
171	32	SB 84+00	LT.

LEGEND

SYMBOL	DESCRIPTION
W	WHITE OR SILVER
G	GREEN
Y	YELLOW
B	BLACK
BL.	BLUE
R	RED
REFL.	REFLECTORIZED
NON.REFL.	NON REFLECTORIZED

SYMBOL	DESCRIPTION
CAPS	CAPITAL LETTERS
U.C.	UPPER CASE LETTERS
L.C.	LOWER CASE LETTERS
D	DEMOUNTABLE TYPE CHARACTERS
N.D.	NON DEMOUNTABLE CHARACTERS

SYMBOL	DESCRIPTION
GR. MTD.	GROUND MOUNTED
O.H.	OVERHEAD MOUNTED
C.S.M.	CANTILEVER MOUNTED SINGLE MAST ARM
C.D.M.	CANTILEVER MOUNTED DOUBLE MAST ARM
C.C.M.	CANTILEVER CENTER MOUNTED

SYMBOL	DESCRIPTION
⊮	APPROX. LOCATION OF SIGN
(T)	LOCATION TEXT
F.S.	FRACTION SQUARE
S.P.	SINGLE POST
D.P.	DOUBLE POST

REVISIONS

SIGN TEXT DATA

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
SD-1	NONE	5/79	1

IN CHARGE OF S P Tompkins DESIGNED BY [illegible] CHECKED BY [illegible] REVIEWED BY [illegible] DATE 7/79

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	125R	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

SIGN TEXT DATA SHEET

SIGNS TO BE INSTALLED

ITEM NO.	LOCATION NO.	TEXT NO.	TEXT	LETTER SIZE	APPROX. SIZE OF SIGN	M.U.T.C.D. NO.	COLOR BACKGROUND	COLOR CHARACTERS	TYPE OF MOUNTING
645.2480	56,113	33	WEST 90	SEE N.Y.S. M. U. T. C. D.	30"X15" 36"X36"	M40A M35-2	SEE N.Y.S. M. U. T. C. D.		GR. MTD.
645.2480	54,82	34	EAST 90		30"X15" 36"X36"	M39A M35-2			GR. MTD.
645.2090	51,52	35	DO NOT ENTER		48"X48"	R51B			O.H.
645.2150	50	36			24"X24"	R20			GR. MTD.
645.2120	50	37			24"X30"	R122A-R			
645.2050	1,81,112	38	STATE SPEED LIMIT XX		48"X60"	R5B			
645.2310	60	39			36"X36"	W58A-C			
645.2060	65,66,68,73	40			48"X24"	W7			
645.2060	15,76,77	41			48"X24"	W7			
645.2410	74	42	XX M.P.H.		36"X36" 36"X36"	W2A-L W161B			
645.2410	63, ,98	43	XX M.P.H.		36"X36" 36"X36"	W2A-R W161B			
645.2310	54	44	SINGLE LANE		36"X36"	W60A			
645.2430	12,44,61,72	45	MERGE		48"X48" 42"X30"	W23B-R W24B			
645.2310 645.2062	57,59	46	STOP AHEAD PAY TOLL		36"X36" 48"X24"	W45 W80-2A			
645.2480	46,47	47	END 88		30"X15" 36"X36"	M49A M35-2			
645.2480	4	48	WEST 88	SEE N.Y.S. M. U. T. C. D.	30"X15" 36"X36"	M40A M35-2	SEE N.Y.S. M. U. T. C. D.		GR. MTD.

SIGNS TO BE INSTALLED

ITEM NO.	LOCATION NO.	TEXT NO.	TEXT	LETTER SIZE	APPROX. SIZE OF SIGN	M.U.T.C.D. NO.	COLOR BACKGROUND	COLOR CHARACTERS	TYPE OF MOUNTING
~~645.2310~~	~~157A~~	~~49~~	CHILDREN PLAY	SEE N.Y.S. M. U. T. C. D.	~~36"X36"~~	~~174~~	SEE N.Y.S. M. U. T. C. D.		GR. MTD.
645.2310 645.2062	45	50	STOP AHEAD GET TICKET		36"X36" 48"X24"	W45 W80-2A			
645.2080	5,85,107	51	EMERGENCY STOPPING ONLY		48"X36"	P19			
645.2150	36	52	PEDESTRIANS BICYCLES HORSES PROHIBITED		24"X24"	R133			
645.2840	34	53	WEST 88 90		30"X15" 36"X36" 30"X18"	M40A M34A-2 M41A-L	36"X36" 36"DIA. 30"X18" 30"X18"	M34A-2 M56MOD. M44A-R M44A-R	
645.2050	22,48,90,100	54	EXIT XX M.P.H.		48"X60"	W52			
645.2410	28	55	XX M.P.H.		36"X36" 24"X24"	W/A-L W161A			
645.2025	16	56	STOP		36"X36"	R2B			
645.2480	14	57	WEST 88		30"X15" 36"X36" 30"X18"	M40A M34A-2 M43A-H			
645.2610	13,19	58	7		24"X24" 24"X15"	M3-2 M13H			
645.2080	24,25,37,38,57,58,59	59	WRONG WAY		48"X36"	R53B			
645.2760	33,161	60	EAST 7 WEST 7		24"X12" 24"X12" 24"X24" 24"X24" 24"X15" 24"X15"	M19,M20 M3-2,M3-2 M13H,M13H			
645.2100	18,21,30	61	ONE WAY		48"X18"	R50A-L			
645.2050	31,50A	62	RAMP XX M.P.H.		48"X60"	W51			
645.2260	17,20,27,29	63	DO NOT ENTER	SEE N.Y.S. M. U. T. C. D.	36"X36"	R51A	SEE M. U. T. C. D.		GR. MTD.

NOTES:
1. LETTERS, NUMERALS, SYMBOLS AND BORDERS OR ANY PARTS OF THESE SHALL HEREAFTER BE REFERRED TO AS "CHARACTERS"
2. SPEEDS INDICATED BY "XX" TO BE ESTABLISHED BY REGIONAL TRAFFIC ENGINEER.

REVISIONS

LOCATION OF SIGNS

LOCATION NO.	TEXT NO.	STATION	SIDE
56	33	RT 16+50	RT.
113	33	TH 6060+75	LT.
54	34	RM 15+00	RT.
82	34	TH 6116+00	RT.
51	35	RT 10+90	O.H.
52	35	RT 10+90	O.H.
50	36	RT 10+00	MALL.
50	37	RT 10+00	MALL.
1	38	WB 707+50	LT.
81	38	TH 6126+00	RT.
112	38	TH 6050+75	LT.
60	39	RM 23+40	RT.
65	40	RK 20+80	RT.
66	40	RK 22+40	RT.
68	40	RP 39+15	RT.
73	40	RL 36+95	LT.
15	41	RB 32+70	LT.
76	41	RP 32+40	LT.
77	41	RT 28+00	LT.
74	42	RP 36+80	LT.
63	43	RT 20+95	RT.
98	43	RK 27+00	LT.
55	44	RM 19+40	RT.
12	45	WB 742+45	LT.
44	45	EB 750+55	RT.
61	45	TH 6092+00	RT.
72	45	TH 6079+55	LT.
57	46	RT 16+50	LT.
59	46	RK 16+50	LT.
46	47	EB 761+50	EB-LT.
47	47	EB 761+50	RT.
4	48	WB 717+00	LT.
~~157A~~	~~49~~	~~OBW-3+10~~	~~RT.~~
45	50	RD 18+00	RT.
5	51	WB 722+50	LT.
85	51	TH 6111+00	RT.
107	51	TH 6064+70	LT.
36	52	E 10+00	LT.
34	53	E 7+65	LT.
22	54	RA 10+00	RT.
~~48~~	~~54~~	~~RC 21+00~~	~~LT.~~
90	54	RP 47+40	LT.
100	54	RK 30+05	LT.
28	55	E 4+00	LT.
16	56	RC 11+65	RT.
14	57	E 0+50	LT.
13	58	E 0+40	RT.
19	58	RC 10+40	RT.
	43	RA 13+00	RT

LEGEND

SYMBOL	DESCRIPTION
W	WHITE OR SILVER
G	GREEN
Y	YELLOW
B	BLACK
BL.	BLUE
R	RED
REFL.	REFLECTORIZED
NON.REFL.	NON REFLECTORIZED

SYMBOL	DESCRIPTION
CAPS	CAPITAL LETTERS
U.C.	UPPER CASE LETTERS
L.C.	LOWER CASE LETTERS
D	DEMOUNTABLE TYPE CHARACTERS
N.D.	NON DEMOUNTABLE CHARACTERS

SYMBOL	DESCRIPTION
GR. MTD.	GROUND MOUNTED
O.H.	OVERHEAD MOUNTED
C.S.M.	CANTILEVER MOUNTED SINGLE MAST ARM
C.D.M.	CANTILEVER MOUNTED DOUBLE MAST ARM
C.C.M.	CANTILEVER CENTER MOUNTED

SYMBOL	DESCRIPTION
⊮	APPROX. LOCATION OF SIGN
⊕	LOCATION TEXT
F.S.	FRACTION SQUARE
S.P.	SINGLE POST
D.P.	DOUBLE POST

SIGN TEXT DATA

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
SD - 2	NONE	5/79	1

REVISIONS

DATE 7/77 REVIEWED BY ____ DATE ____ CHECKED BY Donald Fuller DATE ____ DESIGNED BY ____ DATE ____ IN CHARGE OF J. P. Tonkin

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	126R.1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

SIGN TEXT DATA SHEET

SIGNS TO BE INSTALLED

ITEM NO.	LOCATION NO.	TEXT NO.	TEXT	LETTER SIZE	APPROX. SIZE OF SIGN	M.U.T.C.D. NO.	COLOR BACKGROUND	COLOR CHARACTERS	TYPE OF MOUNTING
645.2310	126, 151, 185, 177	64		SEE N.Y.S. M.U.T.C.D.	36"X36"	W46	SEE N.Y.S. M.U.T.C.D.		GR. MTD.
645.2290	~~157~~, 164, 134A 134B	65	DEAD END		24"X24"	W160			
~~645.2900~~ ~~645.2902~~	~~153~~	~~66~~	~~ONE WAY~~ ~~ONE WAY~~		~~36"X12"~~ ~~36"X12"~~	~~R50-R~~ ~~R50-L~~			BACK TO BACK
645.2900	~~155~~, ~~152~~, 134H,	67	ONE WAY		36"X12"	R50-L			GR. MTD.
645.2620	188	68	EAST 7		24"X12" 24"X24"	M19 M3-2			
645.2620	159	69	WEST 7		24"X12" 24"X24"	M20 M3-2			
645.2600	148, 196	70	7		24"X24"	M3-2			
645.2120	~~156~~, ~~163~~, 134G, 134D,	71	DO NOT ENTER		30"X30"	R51			
645.2280	121, 124, 158, 189, 198	72	SPEED LIMIT XX		36"X48"	R5			
645.2090	6, 7, ~~188A~~, ~~111A~~	73			48"X48"	R20C			
645.2900	134F	74	ONE WAY		36"·12"	R50-R			
645.4003	96, 103	75			12"X54"	W190-R			
645.2020	~~154~~, 160, 181, 132A, 134C,	76	STOP		30"X30"	R2			
645.07	134E, 163B,	77	OLD DUANESBURG RD	TYPE IV 4" AND 2" CAPS SERIES "D"	66"x8"	D18	G-REFL.	W-REFL.	BACK TO BACK
645.14	187A	78	ONLY		30"x36"	R25-R			O.H.
645.14	187B, 187C	79	ONLY		30"x36"	R25-L			O.H.
645.14	187D	80	ONLY	SEE N.Y.S. M.U.T.C.D.	30"x36"	R25-C	SEE N.Y.S. M.U.T.C.D.		O.H.

ITEM NO.	LOCATION NO.	TEXT NO.	TEXT	LETTER SIZE	APPROX. SIZE OF SIGN	M.U.T.C.D. NO.	COLOR BACKGROUND	COLOR CHARACTERS	TYPE OF MOUNTING

LOCATION OF SIGNS

LOCATION NO.	TEXT NO.	STATION	SIDE
~~154~~	~~76~~	~~EBR 16+95~~	~~RT.~~
160	76	ODW 0+50	LT.
181	76	SB 94+05	LT.
132A	76	ODW 10+25	LT.
134C	76	ODW 11+30	25'-RT.
163B	77	ODW 0+75	RT.
134E	77	SB 65+75	LT.
134G	71	ODW 11+10	RT.
134D	71	ODW 11+55	RT.
187A	78	SEE N.Y.S. ROUTE 7 AND BURDECK RD. SIGNAL	
187B	79		
187C	79		
187D	80		

LOCATION OF SIGNS

LOCATION NO.	TEXT NO.	STATION	SIDE
24	59	RA 15+00	RT.
25	59	RA 15+00	LT.
37	59	RC 15+00	LT.
38	59	RC 15+00	RT.
57	59	RT 16+50	LT.
58	59	RK 16+50	RT.
59	59	RK 16+50	LT.
33	60	E10+00	RT.
161	60	BR 10+70	LT.
18	61	RC 11+15	RT.
21	61	RC 11+15	LT.
30	61	RA 18+45	RT.
31	62	RD 11+00	RT.
50A	62	RT 10+00	RT.
17	63	RC 11+25	RT.
20	63	RC 11+25	LT.
27	63	RA 18+20	LT.
29	63	RA 18+20	RT.
126	64	SB 58+00	LT.
151	64	BR 14+15	LT.
185	64	SB 79+50	RT.
177	64	SB 88+00	LT.
~~157~~	~~65~~	~~ODW 3+10~~	~~RT.~~
164	65	ODW 0+50	RT.
134A	65	SB 65+60	LT.
~~153~~	~~66~~	~~EBR 16+50~~	~~LT.~~
~~155~~	~~67~~	~~EBR 16+70~~	~~RT.~~
~~152~~	~~67~~	~~EBR 15+20~~	~~RT.~~
188	68	SB 84+90	RT.
159	69	SB 82+40	LT.
148	70	SB 77+50	LT.
196	70	SB 90+10	RT.
~~156~~	~~71~~	~~EBR 16+95~~	~~RT.~~
~~163~~	~~71~~	~~EBR 16+70~~	~~LT.~~
121	72	SB 51+50	LT.
124	72	SB 55+80	RT.
158	72	SB 81+40	LT.
189	72	SB 85+90	RT.
198	72	SB 97+00	RT.
6	73	EB 724+70	EB-LT.
7	73	WB 725+05	WB-RT.
~~188A~~	~~73~~	~~TH 6043+25~~	~~LT. MAIL~~
~~111A~~	~~73~~	~~TH 6043+65~~	~~RT. MAIL~~
134F	74	ODW 11+00	RT.
96	75	RK 25+25	LT.
103	75	RL 49+05	RT.
134B	65	SB 66+30	LT.
134H	67	ODW 11+45	LT.

NOTES:
1. LETTERS, NUMERALS, SYMBOLS AND BORDERS OR ANY PARTS OF THESE SHALL HEREAFTER BE REFERRED TO AS CHARACTERS.

REVISIONS

LEGEND

SYMBOL	DESCRIPTION
W	WHITE OR SILVER
G	GREEN
Y	YELLOW
B	BLACK
BL.	BLUE
R	RED
REFL.	REFLECTORIZED
NON.REFL	NON REFLECTORIZED

SYMBOL	DESCRIPTION
CAPS	CAPITAL LETTERS
U.C.	UPPER CASE LETTERS
L.C.	LOWER CASE LETTERS
D	DEMOUNTABLE TYPE CHARACTERS
N.D.	NON DEMOUNTABLE CHARACTERS

SYMBOL	DESCRIPTION
GR. MTD.	GROUND MOUNTED
O.H.	OVERHEAD MOUNTED
C.S.M.	CANTILEVER MOUNTED SINGLE MAST ARM
C.D.M.	CANTILEVER MOUNTED DOUBLE MAST ARM
C.C.M.	CANTILEVER CENTER MOUNTED

SYMBOL	DESCRIPTION
⊥	APPROX. LOCATION OF SIGN
⊕	LOCATION TEXT
F.S.	FRACTION SQUARE
S.P.	SINGLE POST
D.P.	DOUBLE POST

SIGN TEXT DATA

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
SD-3	NONE	5/79	1

REVISIONS

DATE 7/79 REVIEWED BY ____ DATE ____ CHECKED BY ____ DATE ____ DESIGNED BY ____ IN CHARGE OF ____

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	127	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

SIGN TEXT DATA SHEET

SIGNS TO BE RELOCATED

ITEM NO.	LOCATION NO.	TEXT NO.	TEXT	APPROX. SIZE OF SIGN	TYPE OF MOUNTING
647.10	116 TO 117	1R	7 / 1605 / 1140		
647.10	122 TO 123	2R	1141		
647.10	125 TO 127	3R	1142		
647.10	131 TO 136	4R	1143		
647.10	138 TO 139	5R	1144		
647.10	145 TO 146	6R	1145		
647.10	149 TO 150	7R	1146		
647.10	173 TO 172	8R	1147		
647.10	178 TO 179	9R	1148		
647.10	182 TO 183	10R	1149		
647.10	86 TO 86 91 TO 91	11R	158 / .4		
647.10	87 TO 87 93 TO 93	12R	.5		
647.10	89 TO 89 94 TO 94	13R	.6		
647.10	62 TO 62 69 TO 69	14R	.7		
647.10	64 TO 64 70 TO 70	15R	.8		
647.10	67 TO 67 71 TO 71	16R	.9		
647.10	99 TO 99 104 TO 104	17R	159 / .0		
647.10	101 TO 101 105 TO 105	18R	.1		
647.10	102 TO 102	19R	.2		
647.10	186 TO 187	20R	TIPPECANOE BRANCH VNCY		
647.10	114 TO 118 128 TO 131	21R			
647.10	194 TO 195	22R	STOP		
647.10	192 TO 193	23R	ANTONIA DR.		
647.10	115 TO 119	24R			
647.11	168 TO 167	25R	XX MPH		
647.11	165 TO 166	26R	SPEED LIMIT XX		
647.10	163A TO 163A	27R	SLOW CHILDREN AT PLAY		

SIGNS TO BE REMOVED

ITEM NO.	LOCATION NO.	TEXT NO.	TEXT	APPROX. SIZE OF SIGN	TYPE OF MOUNTING
647.04	184, 129A, 140	1S		30"X30"	
647.04	132, 134, 180, 169 162	2S	STOP	30"X30"	
647.05	135, 190, 174 137, 197	3S	SPEED LIMIT XX	48" X 36"	
647.04	120	4S	ROUGH ROAD	30"X30"	
647.04	133	5S	DEAD END	30"X30"	
647.04	191	6S	7	24"X24"	
647.04	176	7S	7	24"X 24" 24"X 15"	
647.07	110	8S	ALBANY 12 NEW YORK 160	10.5' X 4.0'	
647.05	88	9S	EMERGENCY STOPPING ONLY	4.5' X 3.0'	
647.04	170	10S	BURDECK RD.		
647.04	175	11S	YIELD	30"X 30"	
647.05	106	12S	STATE SPEED LIMIT XX	60"X 48"	
647.04	141, 142, 143, 144	13S		54"X 12"	
647.04	147	14S		30"X 30"	

SIGNS TO BE LEFT IN PLACE

ITEM NO.	LOCATION NO.	TEXT NO.	TEXT	APPROX. SIZE OF SIGN	TYPE OF MOUNTING
		1			
		2	PRIVATE ROAD DO NOT ENTER		
		3	MARY LANE		
		4	20 MPH		
		5	SPEED LIMIT 35		
		6	RISOLI LANE		
		7	7		
		8	JCT 88		
		9	88 WEST TO 7		

SIGN TEXT DATA

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

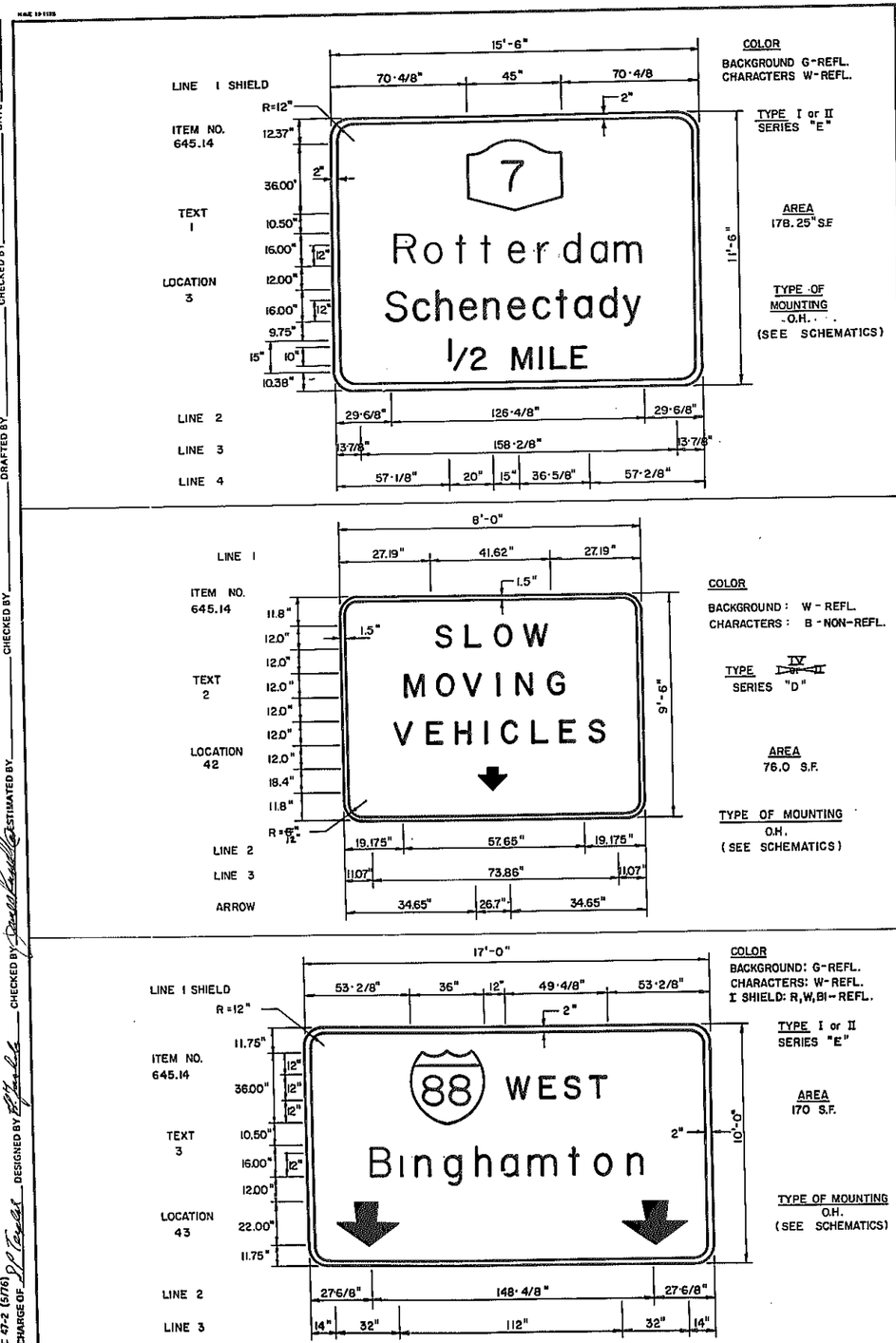
DRAWING No.	SCALE	DATE	REGION
SD — 4	NONE	5/79	REGION I

DATE 7/79
CHECKED BY
DRAFTED BY R.M.
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	128R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



REVISIONS

SIGN FACE DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

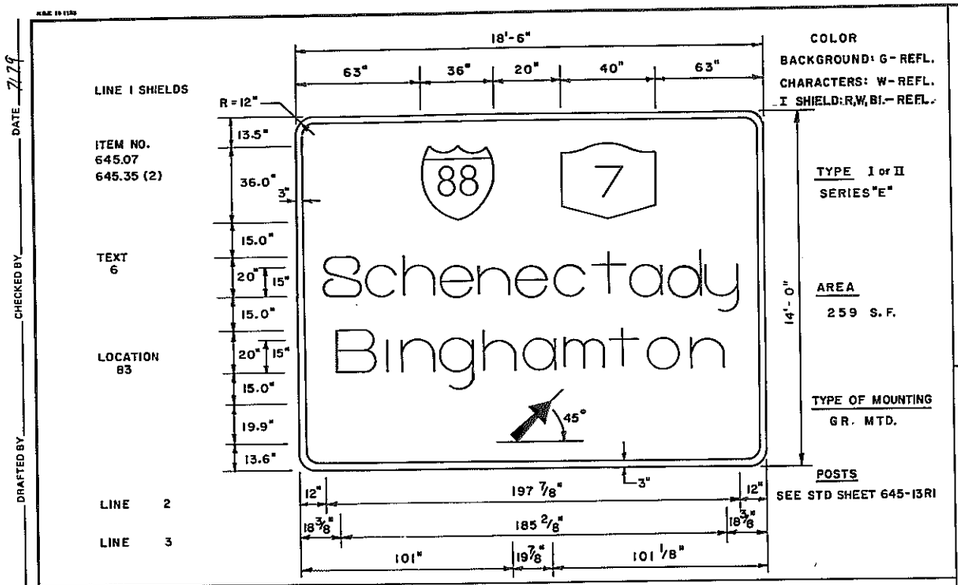
DRAWING No.	SCALE	DATE	REGION
SD - 5			

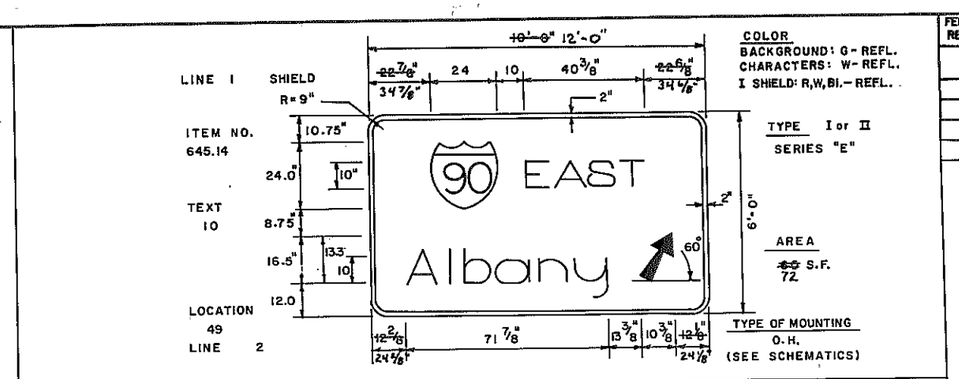
DATE 7/72
CHECKED BY
DRAFTED BY
CHECKED BY
DESIGNED BY
CHECKED BY
IN CHARGE OF
IE 47-2 (5/76)

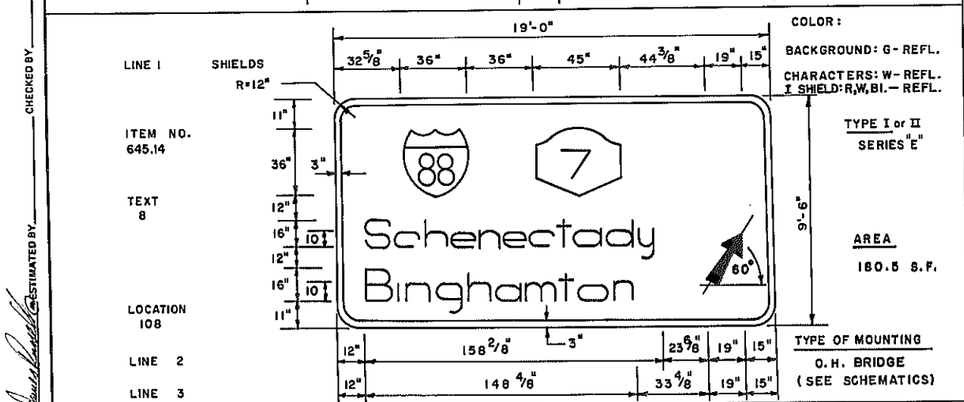
D96243

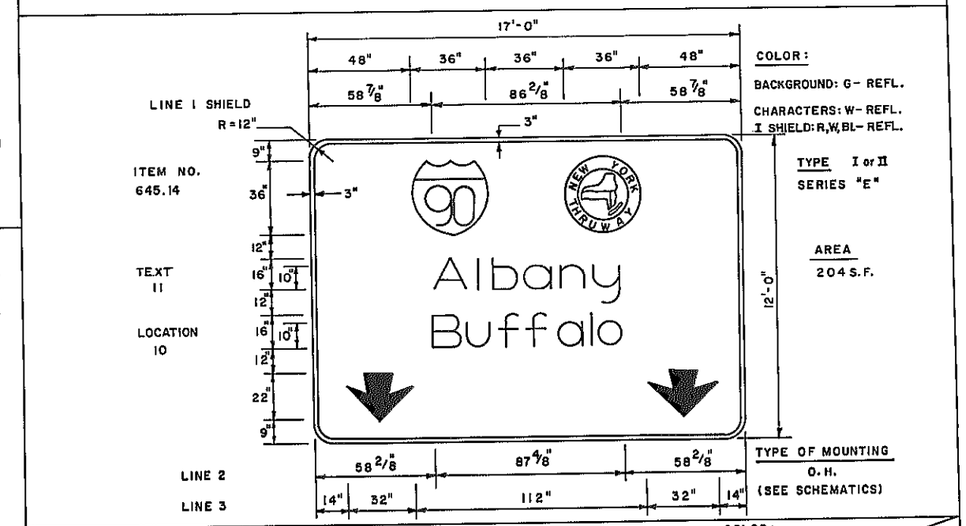
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	129R1	284

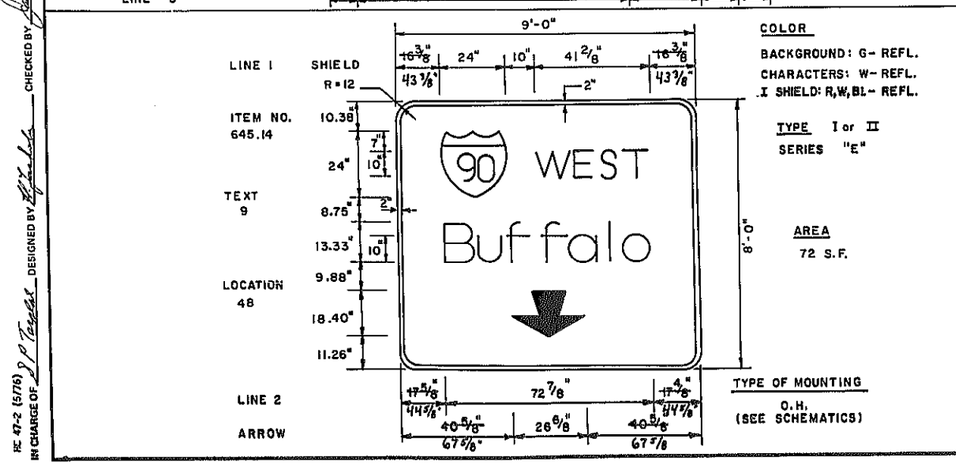
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

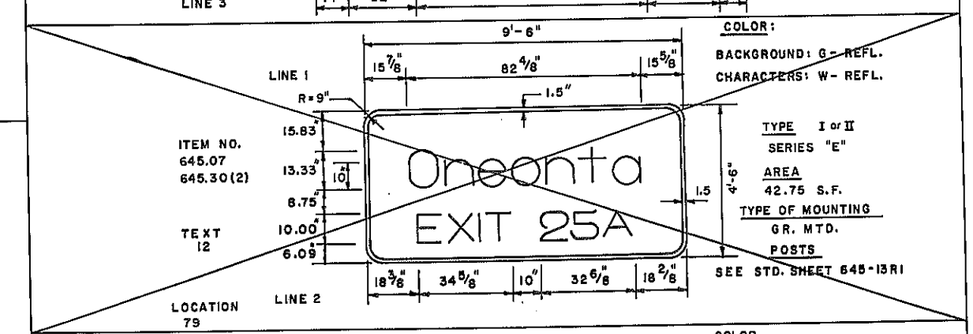


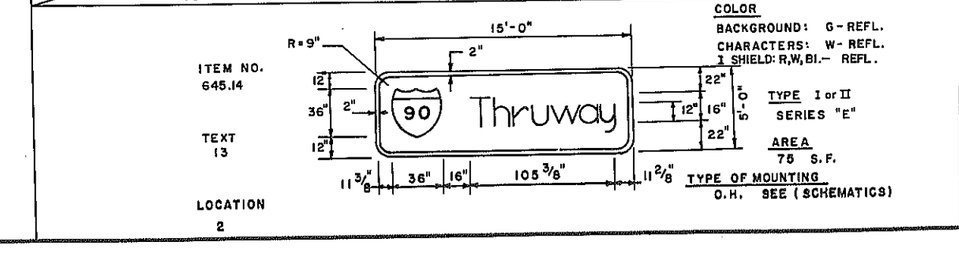












REVISIONS

SIGN FACE DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
SD-6			

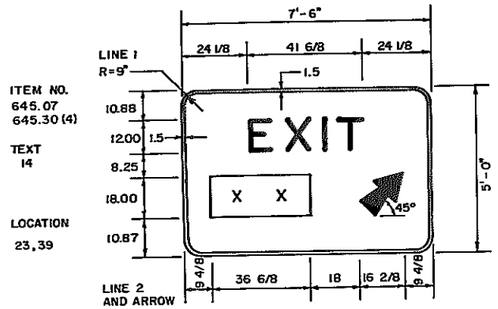
DATE 7-79
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HE 47-2 (5/76)

16

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	130A1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENETADY COUNTY



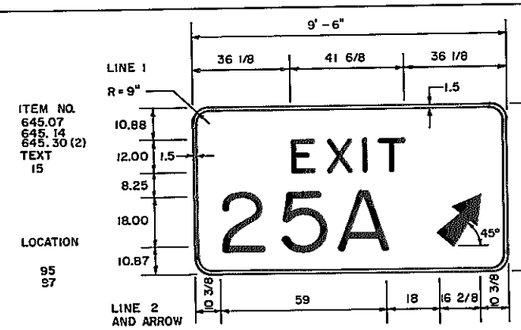
COLOR
BACKGROUND: G-REFL.
CHARACTERS: W-REFL.

TYPE I OR II
SERIES "E"

AREA
37.5 S.F.

TYPE OF MOUNTING
GR. MTD.

POSTS
SEE STD. SHEET 645-13R1



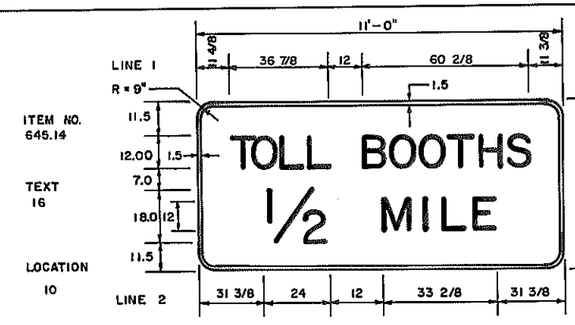
COLOR
BACKGROUND: G-REFL.
CHARACTERS: W-REFL.

TYPE I OR II
SERIES "E"

AREA
47.5 S.F.

TYPE OF MOUNTING
GR. MTD. (LOC. 95)
O.H. (LOC. 97 - SEE C.S.M.)

POSTS (LOCATION 95)
SEE STD. SHEET
645-13R1

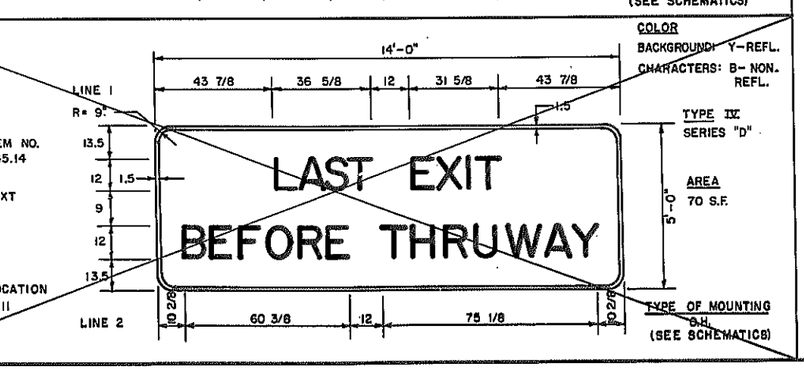


COLOR
BACKGROUND: Y-REFL.
CHARACTERS: B- NON. REFL.

TYPE IV
SERIES "D"

AREA
55 S.F.

TYPE OF MOUNTING
O.H.
(SEE SCHEMATICS)

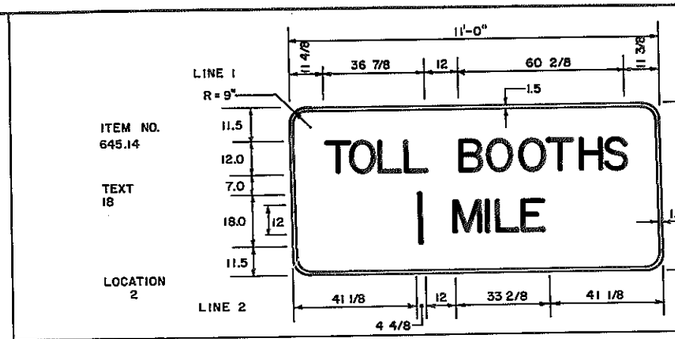


COLOR
BACKGROUND: Y-REFL.
CHARACTERS: B- NON. REFL.

TYPE IV
SERIES "D"

AREA
70 S.F.

TYPE OF MOUNTING
O.H.
(SEE SCHEMATICS)

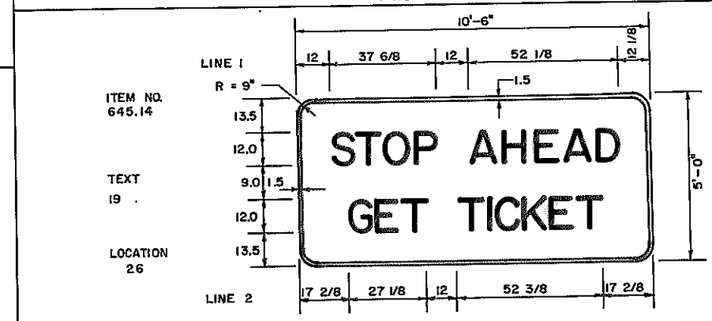


COLOR
BACKGROUND: Y-REFL.
CHARACTERS: B- NON. REFL.

TYPE IV
SERIES "D"

AREA
55 S.F.

TYPE OF MOUNTING
O.H.
(SEE SCHEMATICS)

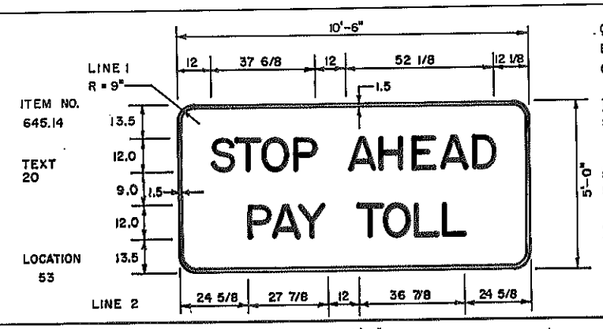


COLOR
BACKGROUND: Y-REFL.
CHARACTERS: B- NON. REFL.

TYPE IV
SERIES "D"

AREA
52.5 S.F.

TYPE OF MOUNTING
O.H.
BRIDGE

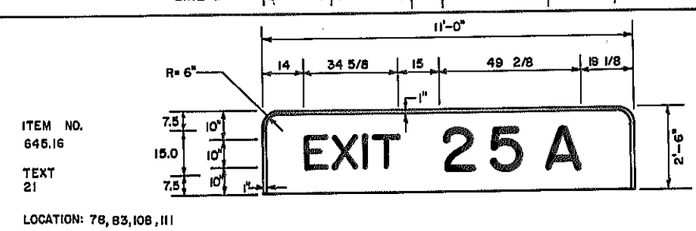


COLOR
BACKGROUND: Y-REFL.
CHARACTERS: B- NON. REFL.

TYPE IV
SERIES "D"

AREA
52.5 S.F.

TYPE OF MOUNTING
O.H.
(SEE SCHEMATICS)



LOCATION: 78, 83, 108, 111

COLOR
BACKGROUND: G-REFL.
CHARACTERS: W-REFL.

TYPE I OR II
SERIES "E"

AREA
27.5 S.F.

TYPE OF MOUNTING
SECONDARY PANEL

REVISIONS

SIGN FACE DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

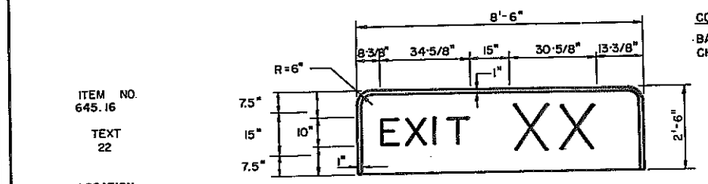
DRAWING No.	SCALE	DATE	REGION
SD - 7			

DATE 7/79
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
RC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	131R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.T. THRUWAY;
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



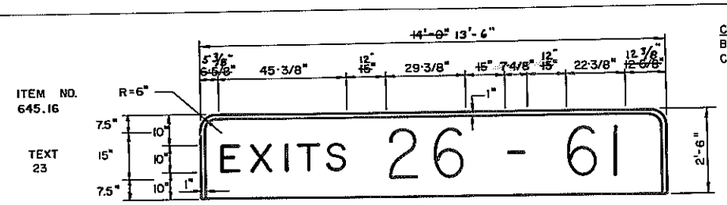
ITEM NO. 645.16
TEXT 22
LOCATION 3, 11, 41

COLOR
BACKGROUND: G - REFL.
CHARACTERS: W - REFL.

TYPE I or II
SERIES "E"

AREA
21.25 S.F.

TYPE OF MOUNTING
SECONDARY PANEL



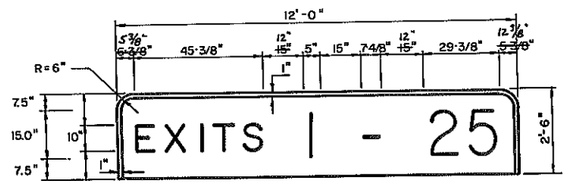
ITEM NO. 645.16
TEXT 23
LOCATION 48

COLOR
BACKGROUND: G-REFL.
CHARACTERS: W-REFL.

TYPE I or II
SERIES "E"

AREA
~~37.5~~ S.F.
33.75

TYPE OF MOUNTING
SECONDARY PANEL



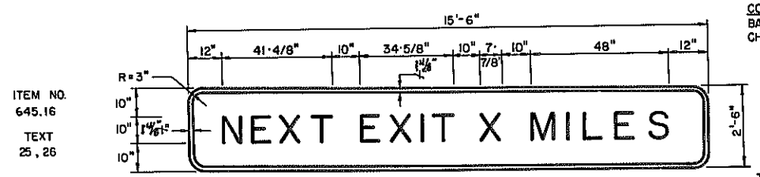
ITEM NO. 645.16
TEXT 24
LOCATION 49

COLOR
BACKGROUND: G - REFL.
CHARACTERS: W - REFL.

TYPE I or II
SERIES "E"

AREA
30 S.F.

TYPE OF MOUNTING
SECONDARY PANEL



ITEM NO. 645.16
TEXT 25, 26
LOCATION: 78, 111

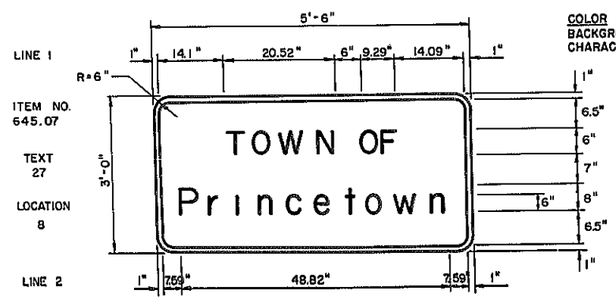
FOR TEXT 25, THIS NUMERAL IS 5; FOR TEXT 26 THIS NUMERAL IS 7.

COLOR
BACKGROUND: G - REFL.
CHARACTERS: W - REFL.

TYPE I or II
SERIES "E"

AREA
38.75 S.F.

TYPE OF MOUNTING
SECONDARY PANEL



ITEM NO. 645.07
TEXT 27
LOCATION 8

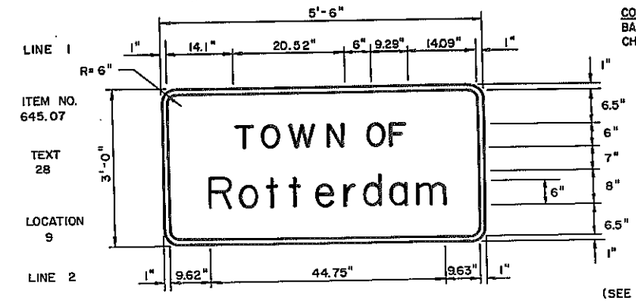
COLOR
BACKGROUND: G - REFL.
CHARACTERS: W - REFL.

TYPE IV
SERIES "D"

AREA
16.5 S.F.

TYPE OF MOUNTING
GR. MTD.

POSTS
SEE STD. SHEET 645-13R1



ITEM NO. 645.07
TEXT 28
LOCATION 9

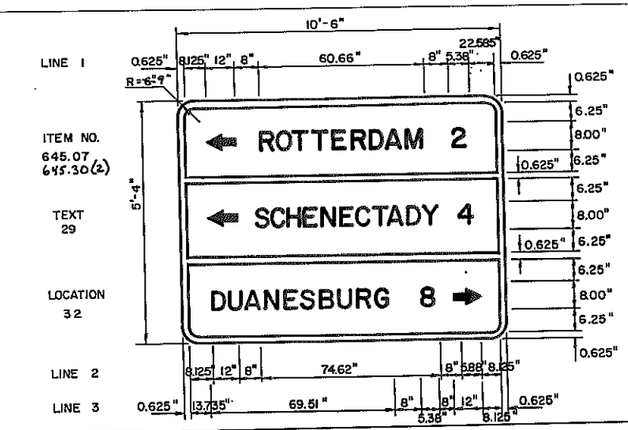
COLOR
BACKGROUND: G - REFL.
CHARACTERS: W - REFL.

TYPE IV
SERIES "D"

AREA
16.5 S.F.

TYPE OF MOUNTING
GR. MTD.

POSTS
(SEE STD. SHEET 645-13R1)



ITEM NO. 645.07 645.30(2)
TEXT 29
LOCATION 32

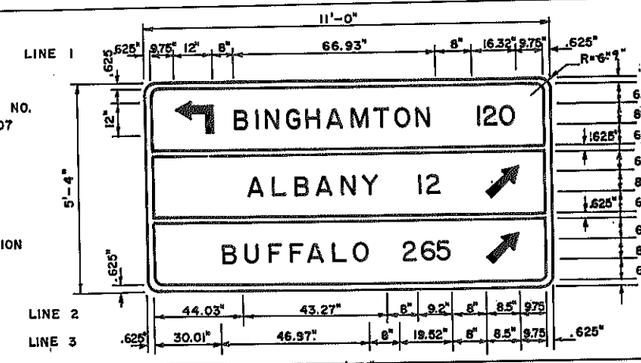
COLOR
BACKGROUND: G - REFL.
CHARACTERS: W - REFL.

TYPE IV
SERIES "D"

AREA
56.0 S.F.

TYPE OF MOUNTING
GR. MTD.

POSTS
SEE STD. SHEET 645-13R1



ITEM NO. 645.07
TEXT 30
LOCATION 35

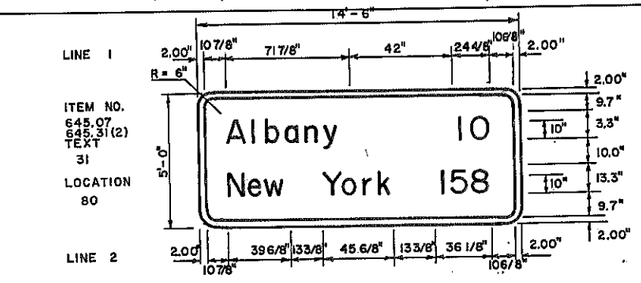
COLOR
BACKGROUND: G- REFL.
CHARACTERS: W-REFL.

TYPE IV
SERIES "D"

AREA:
58.3 S.F.

TYPE OF MOUNTING
GR. MTD.

POSTS
SEE STD. SHEET 645-13R1



ITEM NO. 645.07 645.31(2)
TEXT 31
LOCATION 80

COLOR
BACKGROUND: GREEN-REFL.
CHARACTERS: WHITE-REFL.

TYPE IV
SERIES "D"
AREA 16.5 S.F.

TYPE OF MOUNTING
GR. MTD.

POSTS
SEE STD. SHEET 645-13R1

REVISIONS

SIGN FACE DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

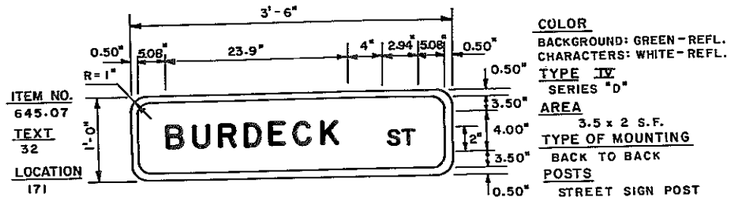
DRAWING No.	SCALE	DATE	REGION
SD - 8			

DATE 7/79
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
RE 47-2 (5/75)

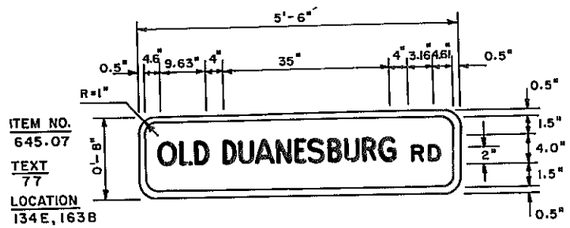
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	132(1)	284

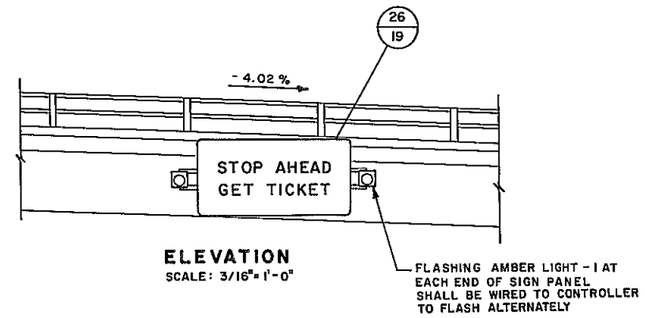
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



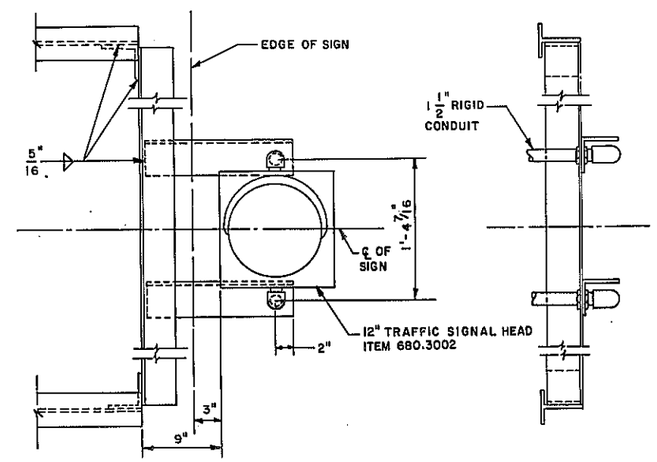
COLOR
BACKGROUND: GREEN - REFL.
CHARACTERS: WHITE - REFL.
TYPE IV
SERIES "D"
AREA
3.5 x 2 S.F.
TYPE OF MOUNTING
BACK TO BACK
POSTS
STREET SIGN POST



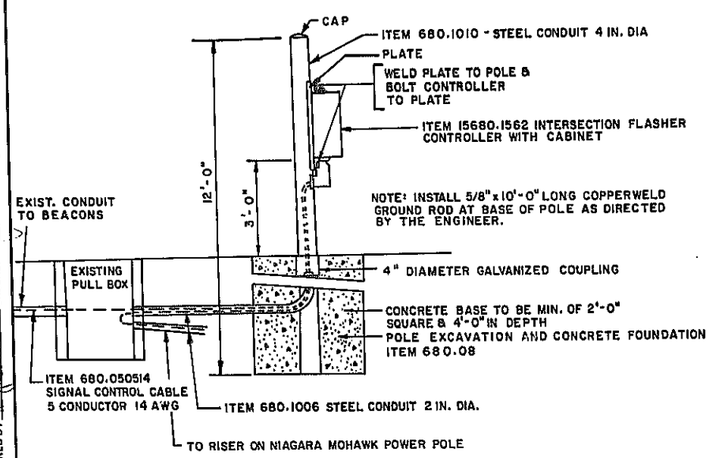
COLOR
BACKGROUND: GREEN - REFL.
CHARACTERS: WHITE - REFL.
TYPE IV
SERIES "D"
AREA
3.7 x 2 S.F.
TYPE OF MOUNTING
BACK TO BACK
POSTS
STREET SIGN POST



ELEVATION
SCALE: 3/16" = 1'-0"



MOUNTING OF FLASHING BEACON DETAIL
NOT TO SCALE



FLASHER CONTROLLER INSTALLATION DETAIL

TABLE OF QUANTITIES

ITEM	UNIT	QUANTITY
206.03	L.F.	~~46~~ 100.
680.050208	L.F.	~~85~~ 1.3.
680.050514	L.F.	1010 ~~1100~~.
680.08	C.Y.	1.18 1.
680.1006	L.F.	~~46~~ 100.
680.1010	L.F.	8 ~~12~~.
08680.1027	EA	1.
15680.1562	EA	1.
680.3002	EA	2.

NOTES:
1. THE BRACKETS FOR THE SIGN AND FLASHING BEACONS HAVE BEEN INSTALLED UNDER A PREVIOUS CONTRACT ALONG WITH CONDUIT TO THE SOUTH SIDE OF ROUTE 7.
2. THE CONTRACTOR SHALL INSTALL A 4" DIA. STEEL CONDUIT (ITEM 680.1010) AND INSTALL AN INTERSECTION FLASHER CONTROLLER WITH CABINET (ITEM 15680.1562) AS SHOWN ON DETAIL.
3. THE CONTRACTOR SHALL INSTALL A 2" DIA. RISER ON AN EXISTING POLE TO BE DETERMINED BY NIAGARA MOHAWK POWER CORP.
4. THE CONTRACTOR SHALL CONNECT THE FLASHER CONTROLLER TO THE FLASHING BEACON WITH 5 CONDUCTOR 14AWG SIGNAL CONTROL CABLE (ITEM 680.050514) RUN THROUGH THE EXISTING 2" DIA STEEL CONDUIT
5. THE PRICE BID FOR THE TRAFFIC SIGNAL HEADS (ITEM 680.3002) SHALL INCLUDE THE COST OF ATTACHING THE HEADS TO THE EXISTING BRACKETS
6. THE PRICE BID FOR THE INTERSECTION FLASHER AND CONTROLLER SHALL INCLUDE THE COST OF ATTACHING IT TO THE 4 IN. DIA. CONDUIT

REVISIONS

SIGN FACE & FLASHING BEACON DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

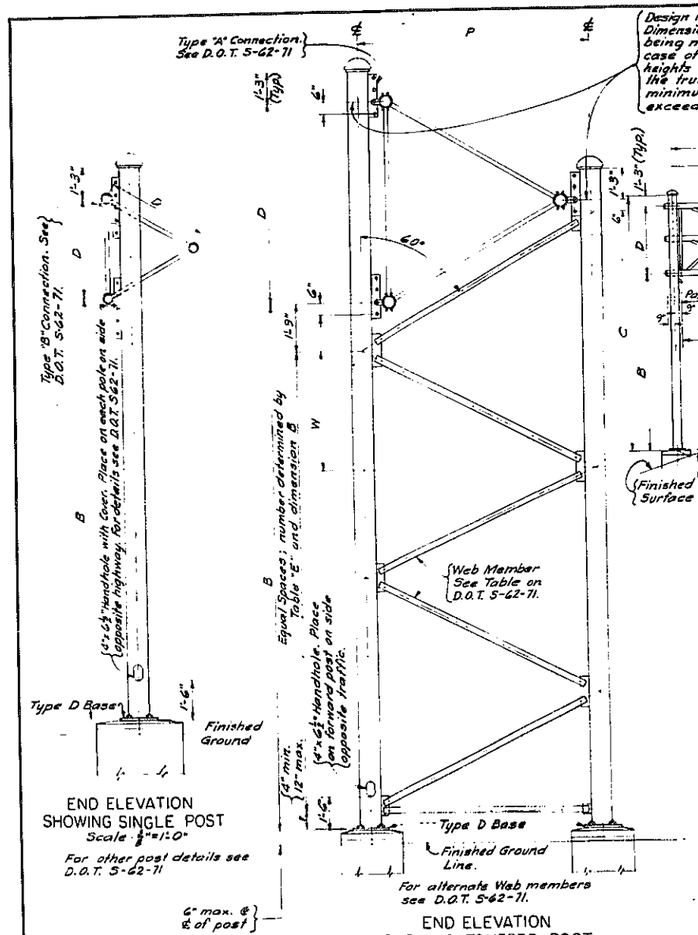
DRAWING No.	SCALE	DATE	REGION
SD-9	NO SCALE	7/79	1

DATE 7/79
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
IC 47-2 (5/76)

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	133(1)	284

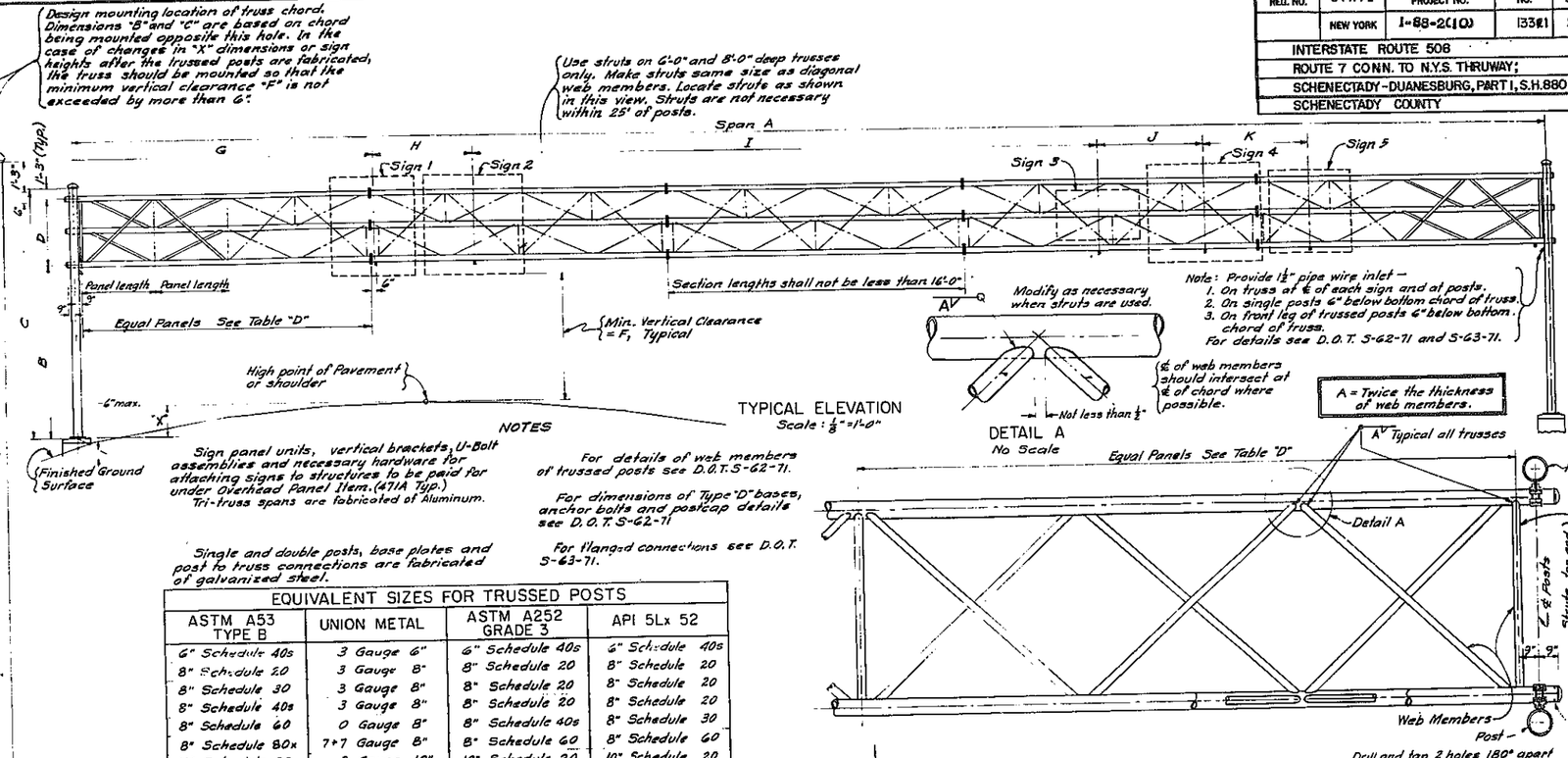
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



END ELEVATION
SHOWING SINGLE POST
Scale: $\frac{1}{8}$"=1'-0"

For other post details see D.O.T. S-62-71

END ELEVATION
SHOWING TRUSSED POST
Scale: $\frac{1}{8}$"=1'-0"



Note: Provide 1½" pipe wire inlet —
1. On truss at ℄ of each sign and at posts.
2. On single posts 6" below bottom chord of truss.
3. On front leg of trussed posts 6" below bottom chord of truss.
For details see D.O.T. S-62-71 and S-63-71.

TYPICAL ELEVATION
Scale: $\frac{1}{8}$"=1'-0"

DETAIL A
No Scale

PLAN
Scale: $\frac{1}{8}$"=1'-0"

NOTES

Sign panel units, vertical brackets, U-Bolt assemblies and necessary hardware for attaching signs to structures to be paid for under Overhead Panel Item. (471A Typ.)
Tri-truss spans are fabricated of Aluminum.

For details of web members of trussed posts see D.O.T. S-62-71.

For dimensions of Type "D" bases, anchor bolts and postcap details see D.O.T. S-62-71

For flanged connections see D.O.T. S-63-71.

Single and double posts, base plates and post to truss connections are fabricated of galvanized steel.

EQUIVALENT SIZES FOR TRUSSED POSTS

ASTM A53 TYPE B	UNION METAL	ASTM A252 GRADE 3	API 5Lx 52
6" Schedule 40s	3 Gauge 6"	6" Schedule 40s	6" Schedule 40s
8" Schedule 20	3 Gauge 8"	8" Schedule 20	8" Schedule 20
8" Schedule 30	3 Gauge 8"	8" Schedule 20	8" Schedule 20
8" Schedule 40s	3 Gauge 8"	8" Schedule 20	8" Schedule 20
8" Schedule 60	0 Gauge 8"	8" Schedule 40s	8" Schedule 30
8" Schedule 80x	7+7 Gauge 8"	8" Schedule 60	8" Schedule 60
10" Schedule 20	3 Gauge 10"	10" Schedule 20	10" Schedule 20
10" Schedule 30	3 Gauge 10"	10" Schedule 20	10" Schedule 20
10" Schedule 40s	3 Gauge 11"	10" Schedule 30	10" Schedule 2
10" Schedule 60x	0 Gauge 11"	10" Schedule 60x	10" Schedule 40s
10" Schedule 80	7+3 Gauge 10"	10" Schedule 60x	10" Schedule 60x
12" Schedule 20	3 Gauge 12"	12" Schedule 20	12" Schedule 20
12" Schedule 30	3 Gauge 12"	12" Schedule 30	12" Schedule 20
12" Schedule s	0 Gauge 12"	12" Schedule 30	12" Schedule 20
12" Schedule 40	0 Gauge 12"	12" Schedule 30	12" Schedule 30
12" Schedule x	7+7 Gauge 12"	12" Schedule 40	12" Schedule s
12" Schedule 60	7+3 Gauge 12"	12" Schedule x	12" Schedule s
12" Schedule 80	3+3 Gauge 12"	12" Schedule 60	12" Schedule x

METHOD OF OBTAINING CAMBER

Washers having the same O.D. as flanges and with holes punched for bolts may be used to obtain camber.

TYPICAL CAMBER DIMENSION

CAMBER DETAILS

SPAN A	CAMBER	SPAN A	CAMBER
Up to 50'	2"	125' to 150'	8"
50' to 75'	3"	150' to 170'	9"
75' to 100'	4"	170' to 190'	10"
100' to 125'	6"	190' to 210'	12"

ITEM NO.	LOC NO.	TEXT NUMBERS	ITEM 64406 REQ'D (5)	SPAN A	LEFT POST TYPE (1)	LEFT POST PIPE SIZE (2)	LEFT POST B	LEFT POST C	LEFT POST X_L (3)	LEFT POST PEDESTAL & FTG. CODE (4)	P	RIGHT POST TYPE (1)	RIGHT POST PIPE SIZE (2)	RIGHT POST B	RIGHT POST C	RIGHT POST X_R (3)	RIGHT POST PEDESTAL & FTG. CODE (4)	F
644.0301	48,49,51,52,53	23,9,24,10,35,20	YES	124.0'	T	2@8" SCHEDULE 20 STEEL	24.3'	31.6'	4.5'	7Q/7U	7'-2"	T	2@8" SCHEDULE 20 STEEL	25.0'	32.3'	5.2'	7Q/7U	17.5'
644.0302	2,3	13,16,22,1	NO	56.0'	T	2@10" SCHEDULE 20 STEEL	22.4'	31.7'	2.4'	7Q/10U	9'-2 3/4"	T	2@10" SCHEDULE 20 STEEL	23.2'	32.5'	3.2'	7Q/10U	17.5'
644.0303	44,22,43	4,22,2,3	NO	78.5	T	2@10" SCHEDULE 20 STEEL	20.3'	29.6'	0.8'	8Q/10U	9'-2 3/4"	T	2@10" SCHEDULE 20 STEEL	25.9'	35.2'	6.4'	8Q/10U	17.5'
644.0304	10,11	11,16,22,4,17	NO	55.0'	T	2@10" SCHEDULE 20 STEEL	24.2'	33.5'	1.5'	10Q/10U	9'-2 3/4"	T	2@10" SCHEDULE 20 STEEL	24.2'	33.5'	1.5'	10Q/10U	17.5'

ITEM NO.	TRUSS D	TRUSS CHORD SIZE	TRUSS WEB SIZE	SIGN 1 G-1	SIGN 1 BRACKET CODE	SIGN 2 H	SIGN 2 BRACKET CODE	SIGN 3 I	SIGN 3 BRACKET CODE	SIGN 4 J	SIGN 4 BRACKET CODE	SIGN 5 K	SIGN 5 BRACKET CODE
644.0301	6'	3@4.0" O.D. x 0.25 WALL ALUMINUM	2.50" O.D. x 0.188" ALUMINUM	23.5'	2-V4-D	20.5'	2-V4-D	30.5'	3-V6-D	28.5'	3-V4-D		
				36.5	2-V4-B2	BACK 7 SIDE OF THE TRUSS							
644.0302	8'	3@6" O.D. x 0.25 WALL ALUMINUM	4.00" O.D. x 0.188" ALUMINUM	18.25	3-V6-D	16.0'	3-V6-D						
644.0303	8'	3@6" O.D. x 0.25 WALL ALUMINUM	4.00" O.D. x 0.188" ALUMINUM	25.00'	4-V6-D	17.25	2-V6-D	15.25'	4-V6-D				
644.0304	8'	3@6" O.D. x 0.25 WALL ALUMINUM	4.00" O.D. x 0.188" ALUMINUM	24.25'	4-V6-D	19.00	4-V 7-D						
					LENGTH AS REQUIRED		LENGTH AS REQUIRED						

① S=Single Post.
T=Trussed Post.

② The pipe sizes listed in this column are for ASTM A53 steel. See the table "Equivalent Post Sizes" on this sheet when using another type of steel. Tapered posts may be used. See the applicable notes on D.O.T. S-60-71.

③ This dimension to be verified by the Contractor in the field.

④ See the current Standard Sheet "Footings for Sign Assemblies with Single Posts" in this case the single entry will specify the size of circular or rectangular footing to be used.
See the current Standard Sheet "Footings for Sign Assemblies with Trussed Posts" In this case the first designation is for the pedestal and the second designation is for the rectangular footing.

⑤ Item 492 is a Sign Structure Dampener. For details see D.O.T. S-49-71.

⑥ The number and arrangement of panels in each section must be such that the web members in each face of the tri-truss form a continuous trussing in the structure from post to post.

TABLE "D" ⑥

D	Panel Lengths Min.	Panel Lengths Max.
4'-0"	3'-6"	4'-4"
6'-0"	5'-3"	6'-9"
8'-0"	7'-2"	8'-10"

TABLE "E"

P	"W" Min.	"W" Max.
5'-2"	2'-4"	2'-10"
7'-2"	3'-4"	3'-10"
9'-2¾"	4'-4"	4'-10"

REVISIONS

SPAN-TYPE STRUCTURES

D.O.T. S-61-75 DRAWING NO. SS-1 OF

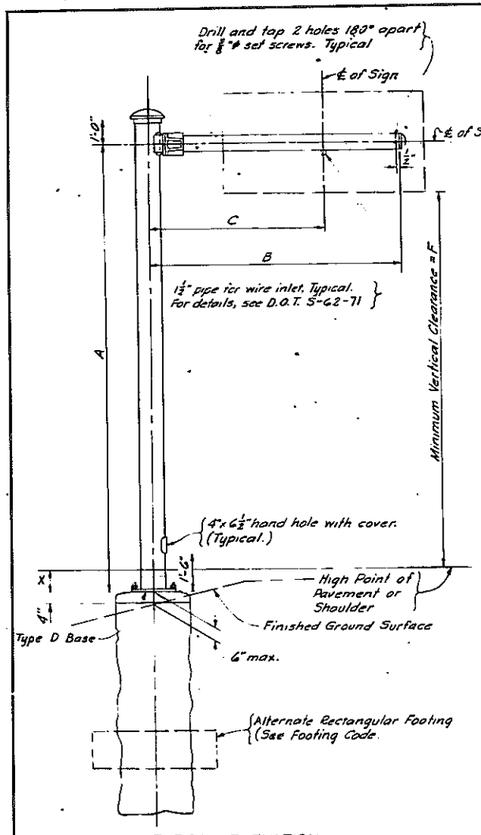
PROJECT ENGINEER K. Marriott
IN CHARGE OF
DESIGNED BY Perry-Sesiak-Henkin
DESIGN CHECKED BY Sesiak-Perry
DETAILED BY M. Lackner
DETAIL CHECKED BY M. Scott

DRAWING CONTROLS CORP. BY PRINT 100% LISTED BELOW CODE 01 10443

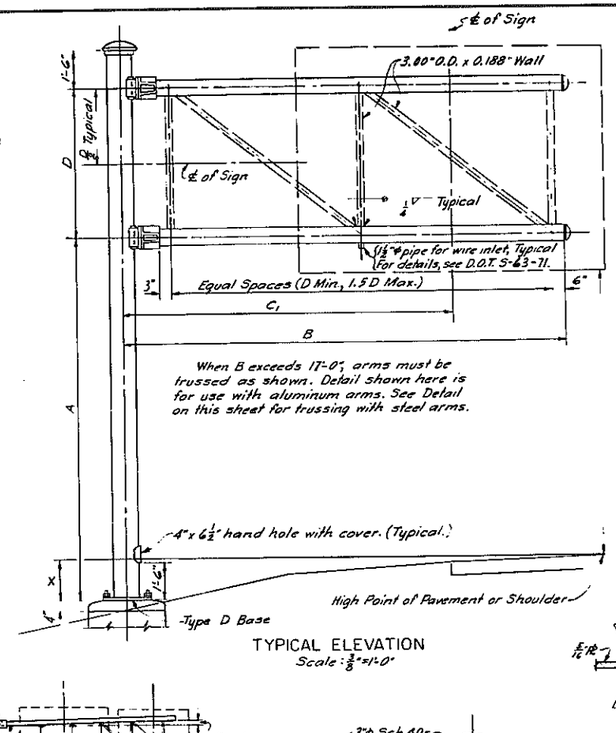
D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	134	285

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



TYPICAL ELEVATION
Scale: 3/8"=1'-0"



TYPICAL ELEVATION
Scale: 3/8"=1'-0"

NOTES

For footing codes, details and payment items for footings, footing excavation and backfill, see the current Standard Sheet "Footings for Sign Assemblies with Single Posts."

For Base ℞ and anchor bolt details, see D.O.T. S-62-71

All posts are to be galvanized steel. Arms are to be aluminum or galvanized steel as indicated in the table below.

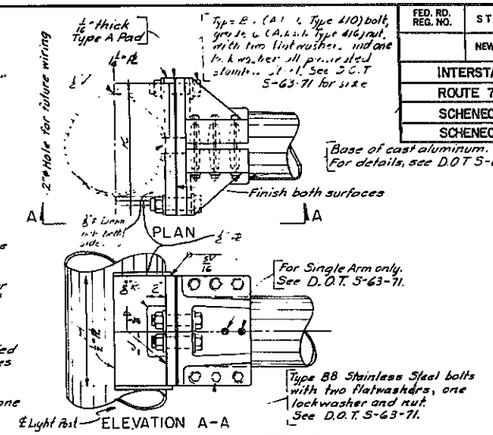
After sign is erected, it may be necessary to adjust leveling nuts slightly to make allowance for deflection in post.

Tapered poles and/or arms may be used for the structures shown on this sheet. They must be of a material satisfactory to the Deputy Chief Engineer, Structures. Modify connections to fit taper. Large end of tapered sections must have the same O.D. as the pipe specified in the table. A table of Equivalent Post sizes is shown on this sheet.

All welding and other fabricating to be done before galvanizing.

For details of caps, see D.O.T. S-62-71 and D.O.T. S-63-71.

For aluminum arm clamps, see D.O.T. S-63-71.



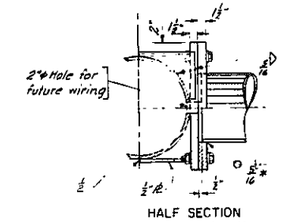
ELEVATION A-A
POST-ARM CONNECTION DETAILS FOR ALUMINUM ARMS
Scale: 1½"=1'-0"

TABLE FOR ALUM. ARM

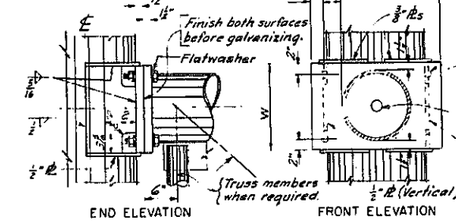
NOM SIZE OF ARM	J	H	K
4"	2"	8"	9½"
6"	2½"	11"	12⅝"
8"	3"	14"	16½"

TABLE FOR GALV. STEEL ARM

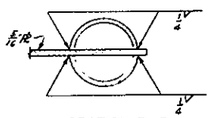
NOM. SIZE OF ARM	L	W
8"	18⅜"	11⅝"
10"	20¾"	13¾"
12"	22¾"	15¾"



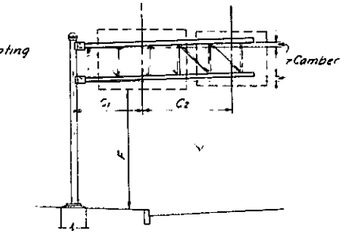
HALF SECTION
*Use 3/8" weld with Sch. 40s pipe.



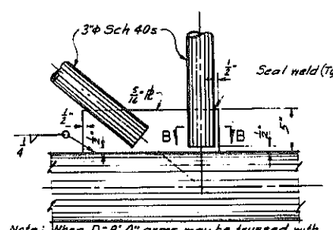
END ELEVATION
FRONT ELEVATION
POST-ARM CONNECTION DETAILS FOR GALVANIZED STEEL ARMS
Scale: 1"=1'-0"



SECTION B-B
Not to Scale



TYPICAL INSTALLATION
Scale 3/8"=1'-0"



Note: When D=8'-0", arms may be trussed with ∠ 5"x5"x5/16", bolted as shown on D.O.T. S-62-71.
TRUSSING DETAILS FOR STEEL ARMS
Scale: 1½"=1'-0"

EQUIVALENT SIZES FOR SINGLE POSTS AND CANTILEVER ARMS

ASTM A53 GrB	UNION METAL	ASTM A252 Gr 3	API 5L x 52
6"φ Sch. 40s	3 Gauge 6" O.D.	6"φ Sch 40s	6"φ Sch 40s
8"φ Sch 20	3 Gauge 8" O.D.	8"φ Sch 20	8"φ Sch 20
8"φ Sch. 30	3 Gauge 8" O.D.	8"φ Sch 20	8"φ Sch 20
8"φ Sch 40s	3 Gauge 8" O.D.	8"φ Sch 20	8"φ Sch 20
10"φ Sch 20	3 Gauge 10" O.D.	10"φ Sch 20	10"φ Sch 20
10"φ Sch. 30	3 Gauge 10" O.D.	10"φ Sch 20	10"φ Sch 20
12"φ Sch 20	3 Gauge 12" O.D.	12"φ Sch 20	12"φ Sch 20
12"φ Sch. 30	3 Gauge 12" O.D.	12"φ Sch 30	12"φ Sch 20
14"φ Sch 10	3 Gauge 12" O.D.	14"φ Sch 10	14"φ Sch 10
14"φ Sch 20	3 Gauge 14" O.D.	14"φ Sch 10	14"φ Sch 10
14"φ Sch 30s	3 Gauge 14" O.D.	14"φ Sch 20	14"φ Sch 10
14"φ Sch 40	0 Gauge 14" O.D.	14"φ Sch 30s	14"φ Sch 20
16"φ Sch 10	3 Gauge 16" O.D.	16"φ Sch. 10	16"φ Sch 10
16"φ Sch 30s	3 Gauge 16" O.D.	16"φ Sch 20	16"φ Sch 10
16"φ Sch 40x	0 Gauge 16" O.D.	16"φ Sch 40x	16"φ Sch 30s
18"φ Sch 10	3 Gauge 18" O.D.	18"φ Sch. 10	18"φ Sch 10
18"φ Sch 20	3 Gauge 18" O.D.	18"φ Sch 10	18"φ Sch 10
18"φ Sch. x	0 Gauge 18" O.D.	18"φ Sch 30	18"φ Sch. s
20"φ Sch 30x	0 Gauge 20" O.D.	20"φ Sch 30x	20"φ Sch 20s

ITEM NO.	LOC. NO.	TEXT NO.	POST (GALV. STEEL) A	D	PIPE SIZE	ARMS C_1	C_2	B	MATERIAL	SIZE	BRACKET CODE	CAMBER	FOOTING CODE	SIGN SIZE	X**	F
644.0100	97	15	19.55'	4.0'	12"φ SCH.20	32.6'	—	36.25'	ALUMINUM	6"O.D.x0.313	3-V3-D	23"	IK/IN	9.5'x 5'	1.55	17.5'

** This dimension is to be verified by Contractor in the field. A minus figure indicates top of footing is higher than high point of pavement or shoulder.

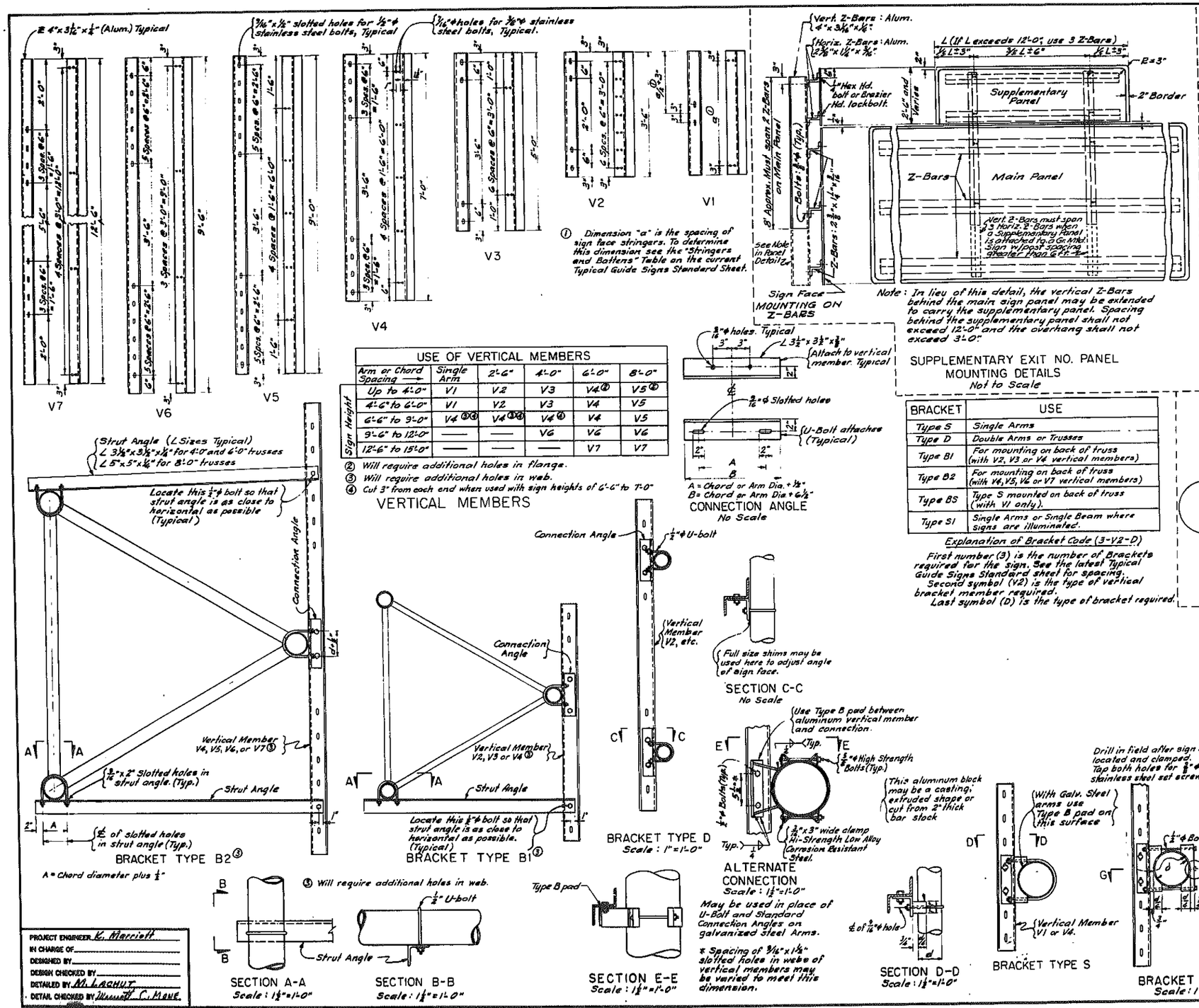
PROJECT ENGINEER K. Marriott
IN CHARGE OF
DESIGNED BY Sosiak — Perry
DESIGN CHECKED BY Perry — Sosiak
DETAILED BY M. Lachut
DETAIL CHECKED BY M. Sosiak M. Lachut 4/3/74 2/74

SINGLE CANTILEVER SIGN STRUCTURES
D.O.T. S-60-74
DRAWING NO. SS-20F

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	135	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



USE OF VERTICAL MEMBERS

Sign Height \ Arm or Chord Spacing →	Single Arm	2'-6"	4'-0"	6'-0"	8'-0"
Up to 4'-0"	V1	V2	V3	V4 ②	V5 ②
4'-6" to 6'-0"	V1	V2	V3	V4	V5
6'-6" to 9'-0"	V4 ③④	V4 ③④	V4 ④	V4	V5
9'-6" to 12'-0"	—	—	V6	V6	V6
12'-6" to 15'-0"	—	—	—	V7	V7

② Will require additional holes in flange.
③ Will require additional holes in web.
④ Cut 3" from each end when used with sign heights of 6'-6" to 7'-0"

VERTICAL MEMBERS

A = Chord or Arm Dia. + ½"
B = Chord or Arm Dia. + 6½"
CONNECTION ANGLE
No Scale

BRACKET	USE
Type S	Single Arms
Type D	Double Arms or Trusses
Type B1	For mounting on back of truss (with V2, V3 or V4 vertical members)
Type B2	For mounting on back of truss (with V4, V5, V6 or V7 vertical members)
Type BS	Type S mounted on back of truss (with V1 only).
Type S1	Single Arms or Single Beam where signs are illuminated.

Explanation of Bracket Code (3-V2-D)

First number (3) is the number of Brackets required for the sign. See the latest Typical Guide Signs Standard sheet for spacing.
Second symbol (V2) is the type of vertical bracket member required.
Last symbol (D) is the type of bracket required.

NOTES

All vertical members, connection angles and strut angles are to be aluminum.
Except as otherwise shown, all bolting material shown on this sheet to be Type 88 Stainless steel.
Use a lockwasher under each nut or use an approved stop nut. Use a flat washer under each head. With slotted holes use a flat washer under the lockwasher.
Sign panel units, vertical bracket, U-bolt assemblies, and necessary hardware for attaching signs to structure to be paid for under Overhead Panel Item 471A. (Typical)

The number of holes shown are the minimum required. The 9/16"x1½" slotted holes in the web may be placed at 6" centers for the entire length of the member. The two 9/16" holes in the flange may be placed at 1'-6" centers for the length of the member.

PROJECT ENGINEER K. Marriott
IN CHARGE OF
DESIGNED BY
DESIGN CHECKED BY
DETAILED BY M. LACHUT
DETAIL CHECKED BY Howard C. MANE

SIGN BRACKETS
SIGN STRUCTURE DAMPENER

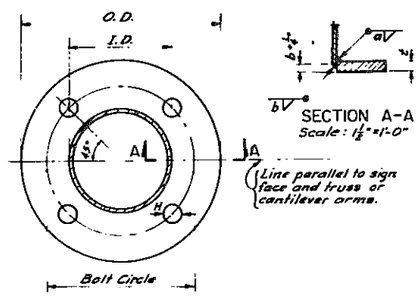
DOTS-49-71

DRAWING NO. SS-3 OF

D96243

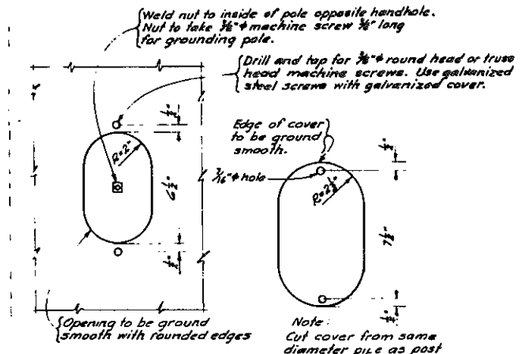
FED. RD. REG. NO.	STATE	FEDERAL-AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	136	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



TYPE D BASES
Scale: 1½"=1'-0"

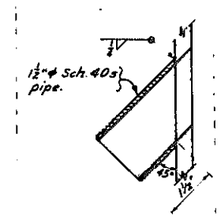
SECTION A-A
Scale: 1½"=1'-0"



HANDHOLE

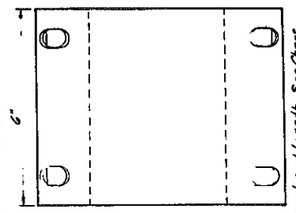
HANDHOLE DETAIL
Scale: 3"=1'-0"

COVER

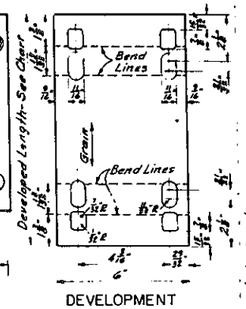


POST
WIRE INLET DETAIL
Scale: Half Size

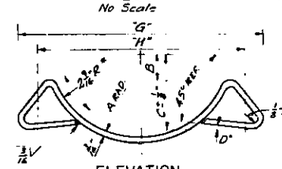
Provide standard 1½" galvanized cap when inlet is not to be wired as part of this contract.



PLAN
No Scale



DEVELOPMENT
No Scale



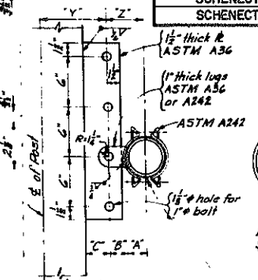
ELEVATION
No Scale

* Radius within limits of ear, typical all clamps.

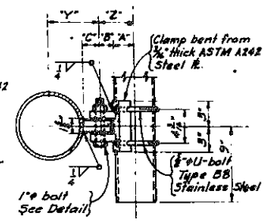
When bolting through clamps, tighten nuts by turn of the nut method.

CHORD DIAM.	DEVELOPED LENGTH	DIMENSIONS A	B	C	D	G	H	BOLT LENGTH
3	10 5/8"	1 15/16"	1/2"	1 15/16"	7"	5 1/2"	4 3/8"	4"
4	11 1/8"	2 1/4"	23/32"	2 1/32"	1 1/2"	6 3/16"	5 3/16"	5"
5	11 7/8"	2 11/16"	13/16"	2 7/32"	7"	7 1/4"	5 23/32"	5"
6	13 7/16"	3"	31/32"	2 7/16"	5"	8 1/8"	6 23/32"	6"
8	16 1/8"	4 1/16"	1 3/32"	3/4"	3 1/2"	10 5/32"	8 15/16"	7"

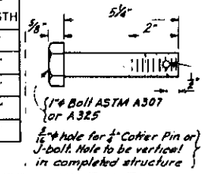
CLAMP DETAILS



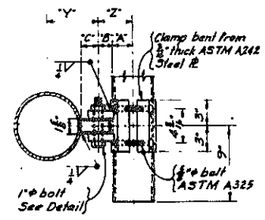
ELEVATION
Scale 1½"=1'-0"



PLAN OF ALTERNATE CONNECTION TYPE A
Scale: 1½"=1'-0"



BOLT DETAIL
No Scale



PARTIAL PLAN
Scale: 1½"=1'-0"

D	"Y"	"Z"
4'-0"	6"	4 3/32"
6'-0"	7 1/8"	4 11/16"
8'-0"	8 1/8"	5 11/16"

"D"	Chord Diam.	"B"	Post Diam.	"C"
4'-0"	3"	2 23/32"	6"	2 9/16"
	4"	2 29/32"	8"	1 9/16"
	5"	1 29/32"		
6'-0"	4"	2 29/32"	8"	2 9/16"
	5"	2 29/32"	10"	1 9/16"
	6"	1 29/32"		
8'-0"	6"	2 29/32"	10"	2 9/16"
	8"	1 29/32"	12"	1 9/16"

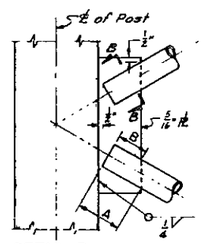
"A" = ⅓ Chord Diameter
"B" = "Z" - (½ Chord Diameter)
"C" = "Y" - (½ Post Diameter)

Type "A" Connection to be galvanized steel.

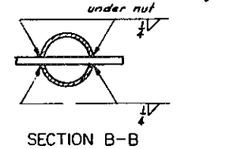
TYPE "A" CONNECTION FOR TRUSSED POSTS

TYPE D BASES

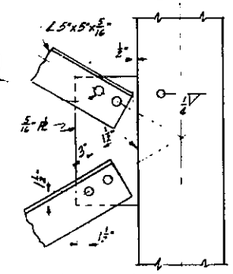
POST	BASE PL O. D.	BASE PL I. D.	MIN. t	BOLT CIRCLE	BOLT DIA.	HOLE DIA.	WELD a	WELD b
6 Sch. 40s	14.0"	6 5/8"	1 1/8"	11 1/2"	1 3/8"	1 5/8"	5/16"	1/4"
6 Sch. 80s	14.0"	6 5/8"	1 3/8"	11 1/2"	1 1/2"	1 3/4"	1/2"	3/8"
8 Sch. 20	17.0"	8 5/8"	1 1/4"	13"	1 3/8"	2"	3/16"	1/4"
8 Sch. 30	17.0"	8 5/8"	1 1/4"	13"	1 3/8"	2"	7/16"	1/4"
8 Sch. 40s	17.0"	8 5/8"	1 3/8"	13"	1 3/8"	2"	5/8"	5/16"
8 Sch. 60	18.0"	8 5/8"	1 1/2"	14"	2"	2 1/4"	1/2"	3/8"
8 Sch. 80x	18.0"	8 5/8"	1 7/8"	14"	2"	2 1/4"	5/8"	1/2"
10 Sch. 20	20.0"	10 3/4"	1 3/8"	16"	1 3/4"	2"	7/16"	1/4"
10 Sch. 30	20.0"	10 3/4"	1 3/4"	16"	2"	2 1/4"	3/4"	1/2"
10 Sch. 40s	20.0"	10 3/4"	1 7/8"	16"	2"	2 1/4"	5/8"	5/16"
10 Sch. 60x	21.0"	10 3/4"	1 15/16"	17"	2 1/4"	2 1/2"	5/8"	1/2"
10 Sch. 80	21.0"	10 3/4"	2 1/8"	17"	2 1/2"	2 3/4"	3/4"	1/2"
12 Sch. 20	24.0"	12 3/4"	1 1/2"	19"	2"	2 1/4"	3/16"	1/4"
12 Sch. 30	24.0"	12 3/4"	1 3/4"	19"	2 1/4"	2 1/2"	7/16"	5/16"
12 Sch. s	24.0"	12 3/4"	1 7/8"	19"	2 1/4"	2 1/2"	7/16"	3/8"
12 Sch. 40	25.0"	12 3/4"	1 15/16"	20"	2 1/4"	2 1/2"	1/2"	3/8"
12 Sch. x	25.0"	12 3/4"	2 1/8"	20"	2 1/2"	2 3/4"	5/8"	1/2"
12 Sch. 60	25.0"	12 3/4"	2 1/2"	20"	2 3/4"	3"	3/4"	1/2"
12 Sch. 80	25.0"	12 3/4"	2 3/4"	20"	2 3/4"	3"	7/8"	5/8"
14 Sch. 10	25.0"	14"	1 3/4"	20"	2"	2 1/4"	3/8"	1/4"
14 Sch. 20	25.0"	14"	1 3/4"	20"	2 1/4"	2 1/2"	3/8"	3/16"
14 Sch. 30x	27.0"	14"	1 15/16"	22"	2 1/4"	2 1/2"	1/2"	3/8"
14 Sch. 40	27.0"	14"	2 1/8"	22"	2 1/2"	2 3/4"	5/8"	7/16"
16 Sch. 10	27.0"	16"	1 3/4"	22"	2 1/2"	2 1/2"	3/8"	1/4"
16 Sch. 30s	29.0"	16"	2 1/8"	23 1/2"	2 1/2"	2 3/4"	1/2"	3/8"
16 Sch. 40x	29.0"	16"	2 3/8"	23 1/2"	3"	3 1/4"	3/8"	1/2"
18 Sch. 10	30.0"	18"	1 7/8"	24 1/2"	2 1/2"	2 1/2"	3/8"	1/4"
18 Sch. 20	30.0"	18"	2 1/8"	24 1/2"	2 3/4"	3"	7/16"	5/16"
18 Sch. x	32.0"	18"	2 3/8"	26"	3"	3 1/4"	5/8"	1/2"
20 Sch. 30x	33.0"	20"	2 1/2"	28"	3 1/4"	3 1/2"	5/8"	1/2"



DETAIL B
No Scale

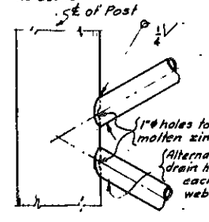


SECTION B-B
No Scale

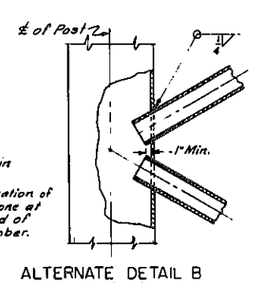


Outstanding legs on top and on side away from traffic. Heads of bolts on side towards traffic.

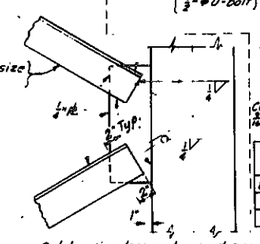
ALTERNATE CONNECTION
(For 9'-2¾" Post Spacing Only)
No Scale



ALTERNATE DETAIL B
No Scale



ALTERNATE DETAIL B
No Scale

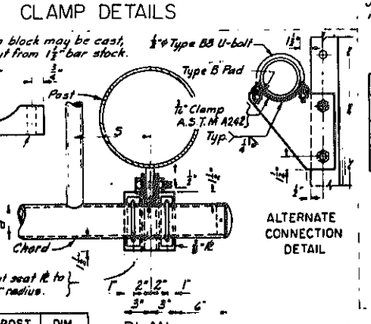


Outstanding legs on top and on side away from traffic

ALTERNATE CONNECTION
(For 9'-2¾" and 7'-2" spacing)
No Scale

P	DIAGONALS * PIPE SIZE	DIAGONALS * ANGLE SIZE	WELD LENGTH A+B
5'-2"	2½" Sch. 40s	(Do not use)	6"
7'-2"	2½" Sch. 40s	4"x4"x½"	6"
9'-2¾"	3" Sch. 40s	5"x5"x5/16"	7"

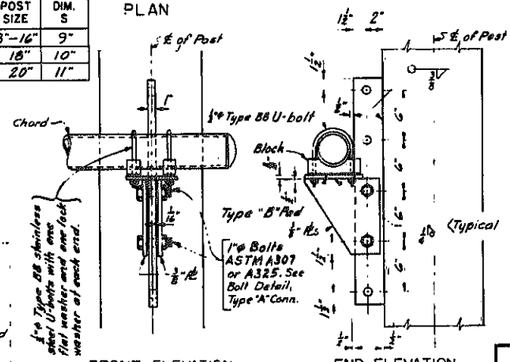
* Use pipe when assembly is to be single dip galvanized.
Use welded angles when assembly is to be double dip galvanized.
Use bolted angles only when assembly cannot be double dip galvanized.



ALTERNATE CONNECTION DETAIL

POST SIZE	DIM. S
8"-16"	9"
18"	10"
20"	11"

PLAN



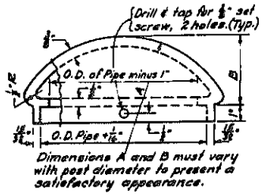
FRONT ELEVATION

END ELEVATION

Type "B" Connection to be galvanized steel.

TYPE "B" CONNECTION FOR SINGLE POST
No Scale

Tighten nuts on U-bolts to 40ft-lbs. torque.



Dimensions A and B must vary with post diameter to present a satisfactory appearance.

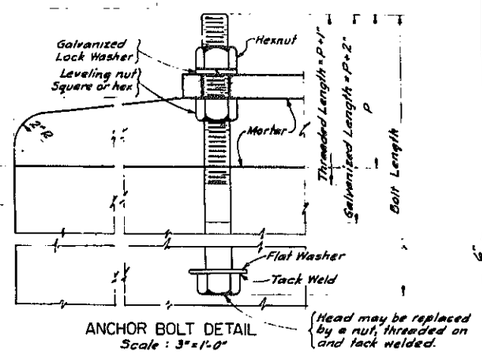
ELEVATION

CAP FOR POSTS
No Scale

Cap may be galvanized steel casting or aluminum casting.

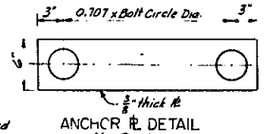
ANCHOR BOLTS

BOLT DIA	BOLT LENGTH ①	P
1 3/8"	4'-2"	8"
1 1/2"	4'-6"	9"
1 3/4"	5'-1"	9"
2"	5'-10"	10"
2 1/4"	6'-6"	10"
2 1/2"	7'-2"	10"
2 3/4"	7'-10"	11"
3"	8'-6"	11"
3 1/4"	9'-2"	12"



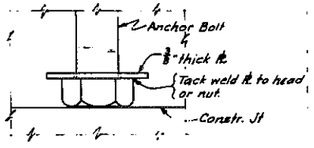
ANCHOR BOLT DETAIL
Scale: 3"=1'-0"

① When used with pedestals on rectangular footings these anchor bolts may be shortened if necessary so that the lower end rests on the top of the rectangular footing. ⅜" thick anchor plates will be required, see detail at right.



ANCHOR PL DETAIL
No Scale

To be used with rectangular footings when nominal bolt length exceeds height of pedestal plus ("P"-4").



DETAIL OF ANCHOR BOLT WITH PLATE
No Scale

PROJECT ENGINEER K. Marriott
IN CHARGE OF
DESIGNED BY Henkin - Perry
DESIGN CHECKED BY Sesiak
DETAILED BY H. Lechner
DETAIL CHECKED BY K. Marriott

BASES, CAPS AND CONNECTION DETAILS

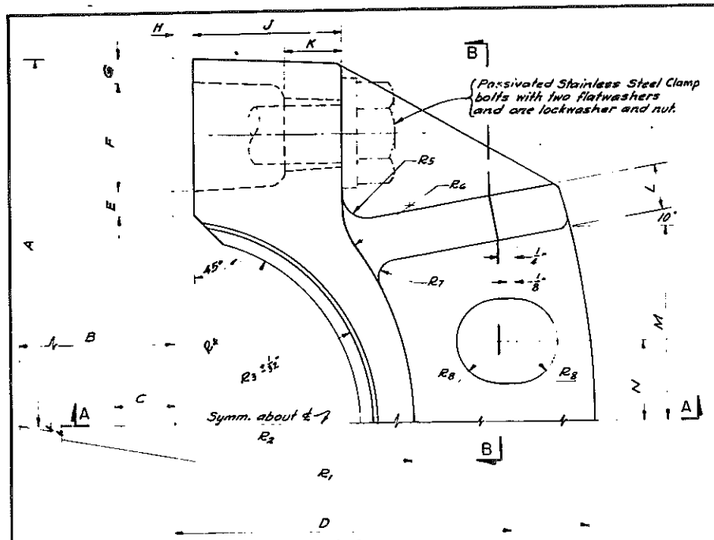
D.O.T. S-62-71

DRAWING NO. SS-4 OF

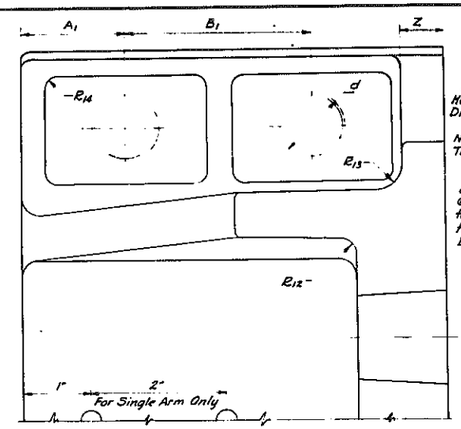
D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	137	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

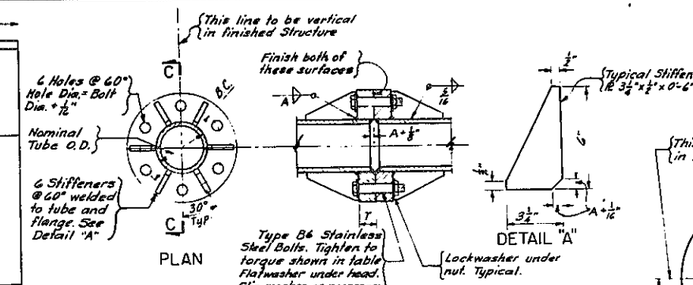


PLAN OF 4, 6, 8, 10 INCH ARM CONNECTION
No Scale



SECTION B-B FOR 4 & 6 INCH ARM CONNECTION
No Scale

Note
All fillets and radii not shown are ⅛" minimum. Use 3° draft.



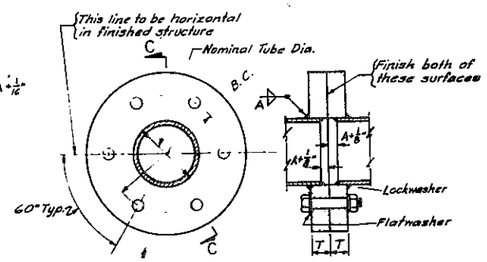
PLAN

DETAIL "A"

SECTION G-G

All bolts are Type B6 stainless steel.

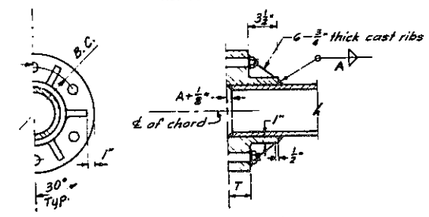
TYPE B FLANGE CONNECTION
FABRICATED
Not to Scale



PLAN

SECTION C-C

TYPE A FLANGE CONNECTION
Scale: 3" = 1'-0"
All bolts are Type B6 Stainless steel.

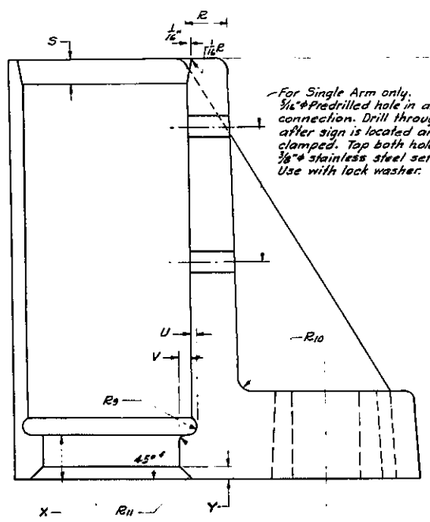


All bolts are Type B6 stainless steel.

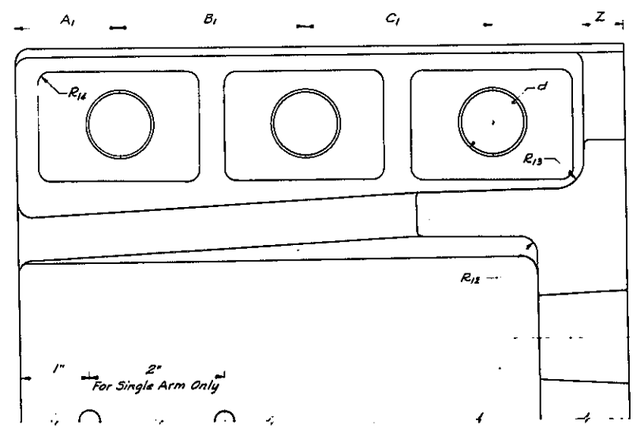
TYPE B FLANGE CONNECTION
CAST
Not to Scale

TYPE A FLANGE CONNECTION *						
CHORD SIZE	FLANGE "A"	FLANGE O.D.	FLANGE "T"*	BOLT DIA.	BOLT CIRCLE	BOLT TORQUE FT. LBS.
3" × 5/16"	5/16"	7"	3/8"	1/2"	5"	40
3" × 1/4"	1/4"	7"	3/8"	1/2"	5"	40
3" × 5/16"	5/16"	7"	3/8"	1/2"	5"	40
4" × 1/4"	1/4"	8½"	7/8"	5/8"	6½"	60
4" × 5/16"	5/16"	8½"	7/8"	5/8"	6½"	60
4" × 3/8"	3/8"	8½"	7/8"	5/8"	6½"	60
5" × 5/16"	5/16"	9½"	1"	5/8"	7½"	60
5" × 3/8"	3/8"	9½"	1"	5/8"	7½"	60
6" × 1/4"	1/4"	11½"	1¼"	3/4"	9"	75
6" × 5/16"	5/16"	11½"	1¼"	3/4"	9"	75
6" × 3/8"	3/8"	11½"	1¼"	3/4"	9"	75
8" × 1/4"	1/4"	13½"	1¼"	3/4"	11"	75
8" × 5/16"	5/16"	13½"	1¼"	3/4"	11"	75
8" × 3/8"	3/8"	13½"	1¼"	3/4"	11"	75

* Cast flanges may be used. All dimensions will be the same except that the thickness "T" shall be ⅛" greater in each case.



SECTION A-A
No Scale



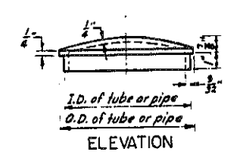
SECTION B-B FOR 8, 10 INCH ARM CONNECTION
No Scale

	R_1	R_2	R_3	R_4	R_5	R_6	R_7	R_8	R_9	R_{10}	R_{11}	R_{12}	R_{13}	R_{14}	d	Clamp Bolts ①	Torque Ft. lbs.
4" Diameter	7 7/8"	3 1/8"	2"	1 13/16"	1/4"	1 1/4"	3/16"	1/2"	1/8"	1/4"	1/16"	3/16"	1/4"		11/16"	3/8"	60
6" Diameter	12"	3 13/32"	3"	2 15/16"	3/8"	1	1/4"	5/8"	3/8"	1/4"	1/16"	3/8"	3/8"	7/16"	1"	3/8"	75
8" Diameter	16 5/8"	5 3/4"	4"	3 3/4"	1"		1/2"	3/4"	3/8"	3/8"	1/4"	3/8"	3/8"	7/16"	1"	3/8"	75
10" Diameter	16 31/32"	7"	5"	4 3/4"	1"		1/2"	3/4"	3/8"	3/8"	1/4"	1/2"	1/2"	3/8"	1 1/8"	1"	100

① Clamp bolts shall be Type 88 Stainless steel.

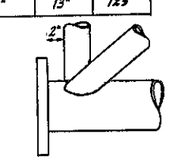
	A	B	C	D	E	F	G	H	J	K	L	M	N	R	S	T	U	V	W	X	Y	Z	A_1	B_1	C_1	Flange Bolts ②	Torque Ft. Lbs.
4" Diameter	4 1/16"	3 1/8"	3 5/32"	3 1/8"	3/8"	1 3/16"	3/8"	5/8"	1 11/16"	3/8"	3/8"	2 7/16"	3 3/16"	17/32"	1/4"	4 1/4"	1/2"	3/8"	1"	5/8"	3/8"	5/8"	1 1/8"	1 1/8"		3/4"ϕ	75
6" Diameter	5 3/4"	5 11/16"	5 11/16"	5"	3/8"	1 9/16"	3/8"	5/8"	2 1/4"	3/8"	1/2"	2 3/4"	1 3/8"	13/32"	3/8"	4 3/4"	1/2"	3/8"	1 1/8"	11/16"	3/8"	3/4"	1 1/2"	2 1/8"		1"ϕ	100
8" Diameter	6 5/8"	8"	1"	6 3/4"	3/8"	1 11/16"	3/8"	3/4"	2 3/4"	3/8"	3/4"	3 1/2"	1 3/8"	3/8"	1/4"	8 3/4"	3/4"	3/8"	1 1/8"	11/16"	3/8"	3/4"	1 3/4"	3 1/16"	3 1/16"	1 1/4"ϕ	125
10" Diameter	7 7/8"	6 13/16"	1 1/2"	7 1/2"	3/8"	1 13/16"	3/8"	3/4"	3 1/2"	1 1/4"	1 1/4"	4 11/16"	2 7/8"	3/8"	1/4"	10 1/2"	3/4"	3/8"	2"	11/16"	3/8"	3/4"	1 13/16"	3 11/16"	3 11/16"	1 1/2"ϕ	150

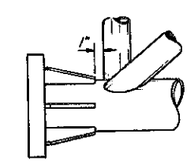
② Flange bolts shall be Type B6 Stainless steel.



ELEVATION
CAP FOR ARMS
No Scale

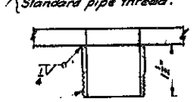
Alternate caps may be submitted to the Deputy Chief Engineer for approval.





TYPICAL CONNECTION AT FLANGE
No Scale

1½"ϕ Sch. 40 Aluminum pipe with Standard pipe thread.



WIRE INLET DETAIL FOR TRUSS OR CHORD
Scale - Half Size

PROJECT ENGINEER L. Marriott
IN CHARGE OF
DESIGNED BY Perry
DESIGN CHECKED BY Sorek
DETAILED BY M. Lachini
DETAIL CHECKED BY

ALUMINUM COMPONENTS AND CONNECTION DETAILS

D.O.T. S-63-71 DRAWING NO. SS-5 OF

D96243

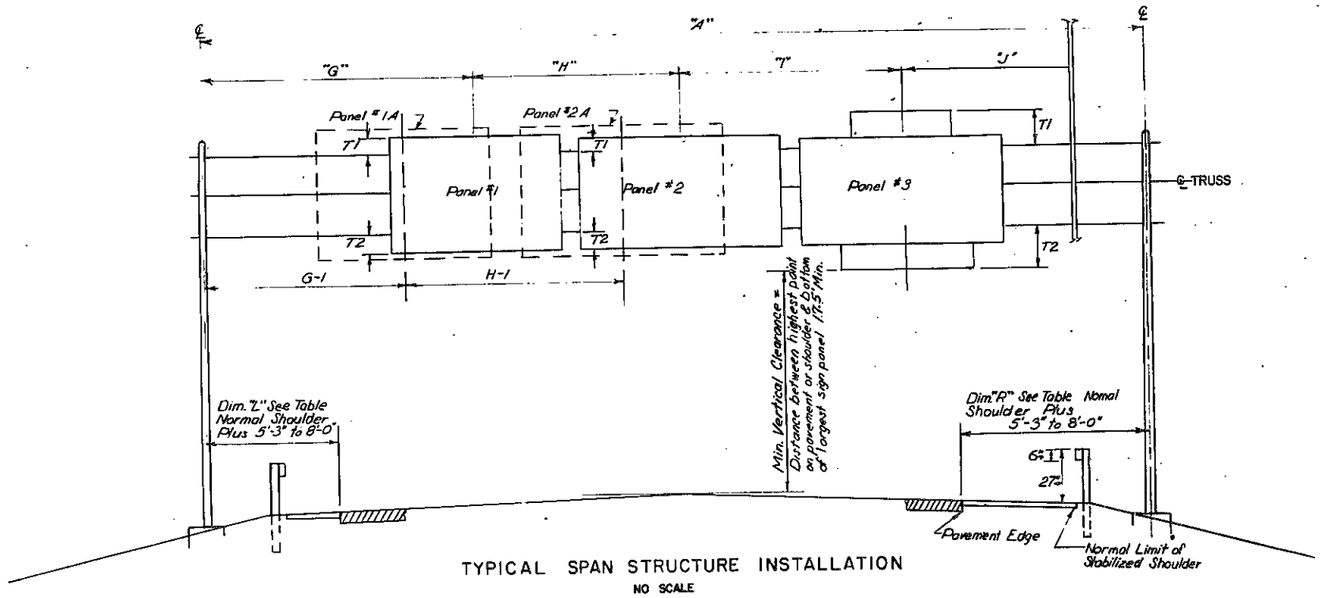
FED. ROAD REG. NO.	STATE	FED. AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	138R1	284

INTERSTATE ROUTE 508

ROUTE 7 CONN. TO N.Y.S. THRUWAY;

SCHENECTADY - DUANESBURG, PART I, S.H.880

SCHENECTADY COUNTY



TYPICAL SPAN STRUCTURE INSTALLATION

NO SCALE

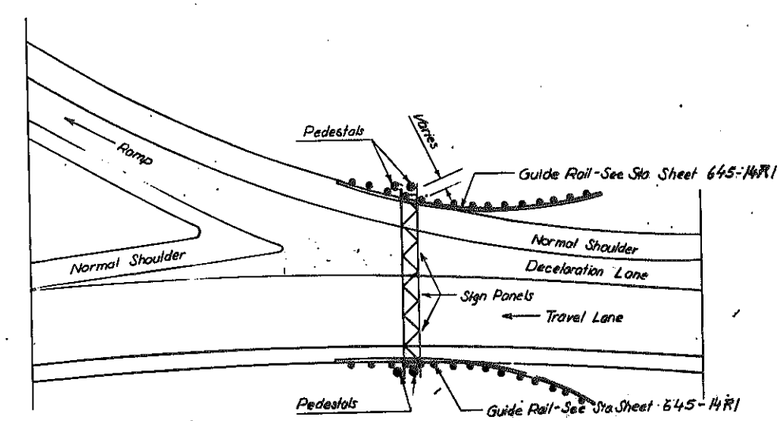
NOTE:
DURING THE COURSE OF HIGHWAY CONSTRUCTION IT IS SOMETIMES NECESSARY TO VARY SLIGHTLY FROM THE CONSTRUCTION PLANS. IT SHALL THEREFORE BECOMES THE RESPONSIBILITY OF THE CONTRACTOR ERECTING THE SIGN STRUCTURE TO VERIFY THE AUTHENTICITY OF THE SECTIONS SHOWN ON THIS SHEET.

TABLE OF STRUCTURES

PANEL 1 T1	PANEL 1 T2	PANEL 2 T1	PANEL 2 T2	PANEL 3 T1	PANEL 3 T2	PANEL 4 T1	PANEL 4 T2	DIM "L"	DIM "R"	ITEM NO	STATION	LENGTH "A"	DIM "G"	DIM "H"	DIM "I"	DIM "J"	PANEL SIZES #1	PANEL SIZES #2	PANEL SIZES #3	PANEL SIZES #4
℄	℄	℄	℄	2.2'	2.3'	1.2'	1.3'	16.0'	16.0'	644.0301	RT 11+00	124.0'	23.5'	20.5'	30.5'	28.5'	4'x4' 12.5'	4'x4' 8.5'	~~12'x2.5'~~ ~~14'x8'~~	12'x2.5' 12'x6.0'
0.7'	1.3'	3.5'	2.5'	—	—	—	—	14.0'	18.0'	644.0302	EB 710+00	56.0'	18.25'	16.0'	—	—	~~15.6'x5'~~ 11.0'x5'	~~9.5'x2.5'~~ 15.5'x11.5', 8'x9.5'	—	—
℄	℄	℄	℄	2.6' 2.9'	1.4' 1.6'	—	—	12.5'	30.0'	644.0303	WB 763+00	78.5'	25'	17.25'	15.25'	—	17.0'x10'	~~9.5'x12'~~ 8.5'	8.5' ~~2.5'x2.5'~~ 19.0'x~~9.5'~~ ~~10'~~	—
3.8'	5.2'	4.8'	4.7'	—	—	—	—	12.5'	18.75'	644.0304	EB 733+00	55.0'	24.25'	19.00'	—	—	17.0'x12' 11.0'x5'	~~2.5'x2.5'~~ 19.0'x10' 14.0'x5'	—	—

REVERSE SIDE

PANEL 1A T1	PANEL 1A T2							DIM "L"	DIM "R"	ITEM NO	STATION	"A"	"G-1"	"H-1"	"I-1"	"J-1"				
℄	℄	—	—	—	—	—	—	16.0'	16.0'	644.0301	RT 11+00	124.0'	36.5'	—	—	—	10.5'x5'			



TYPICAL LOCATION AND BOX BEAM TYPE GUIDE RAILING PROTECTION FOR OVERHEAD SIGN STRUCTURE

NO SCALE

REVISIONS

IN CHARGE OF J. H. Nelson
DESIGNED BY H. Gerhardt V James Russell
ESTIMATE BY H. Gerhardt V
TRACED BY Arthur Quintschenko V

SCHEMATIC SIGN STRUCTURE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

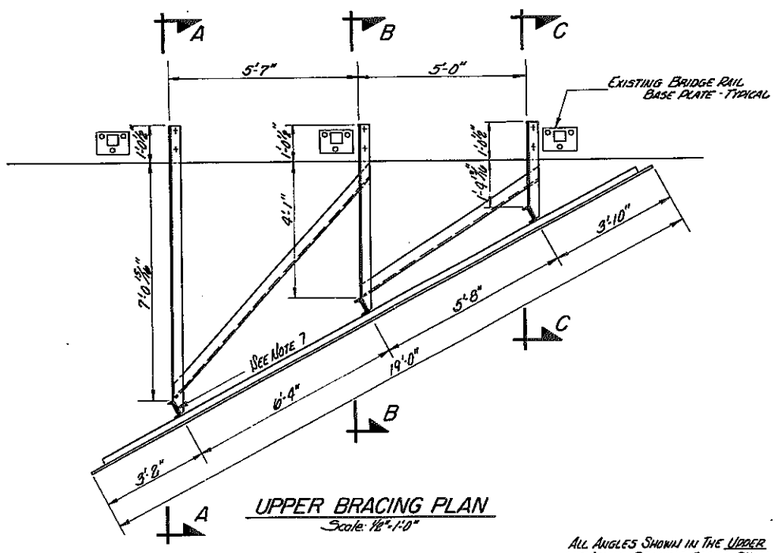
DRAWING NO.	SCALE	DATE	REVISION 1
SS-6	NO SCALE	7/75	

Schematic

D96243

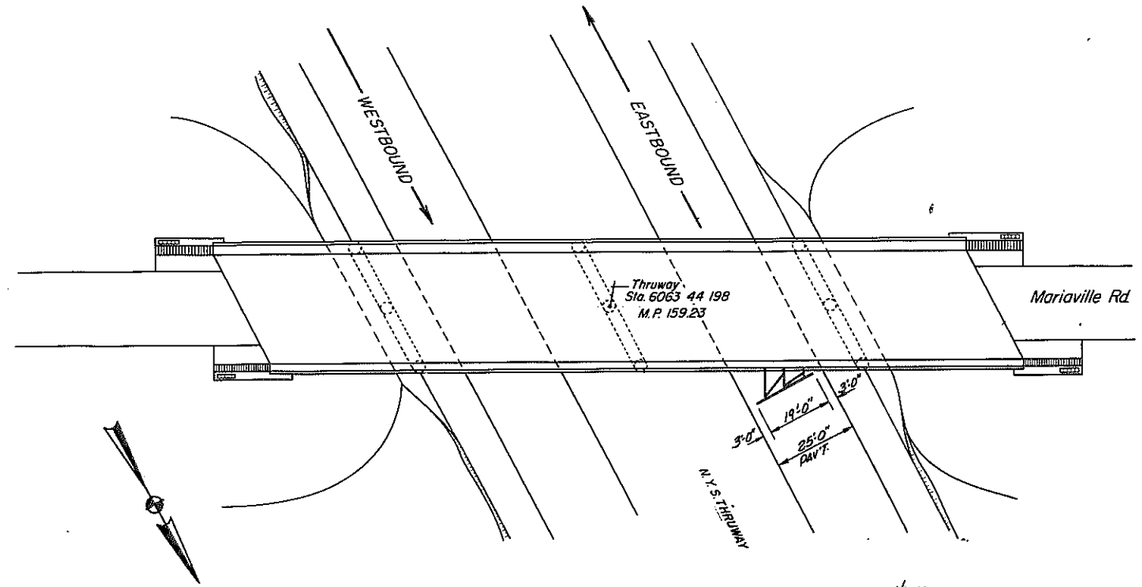
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	139	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

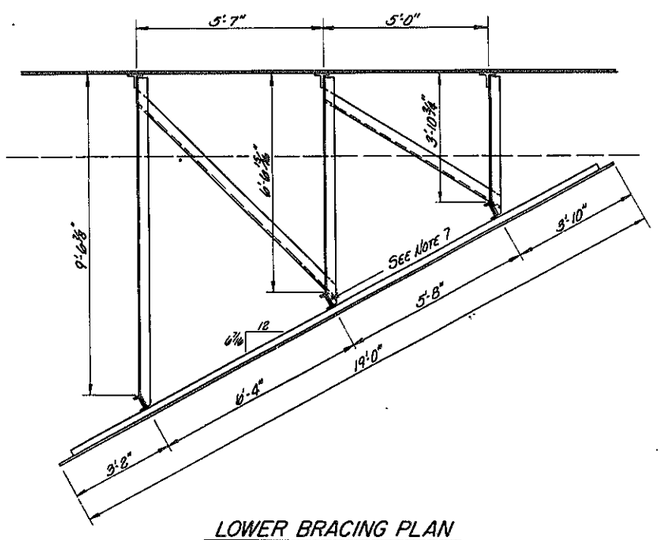


UPPER BRACING PLAN
Scale: 1/2"=1'-0"

All Angles Shown in the Upper and Lower Bracing Plans Shall Be 4"x4"x5/16".



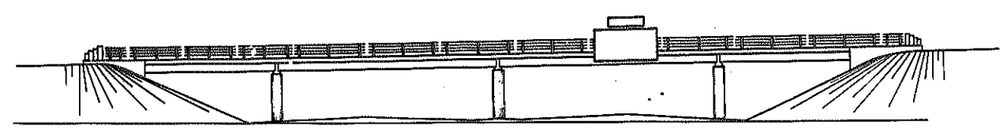
PLAN
Scale: 1"=20'.



LOWER BRACING PLAN
Scale: 1/2"=1'-0"

Notes:

1. All steel shall be ASTM A36
2. All holes shall be 11/16"ϕ for 5/8"ϕ ASTM A325 High Strength Bolts.
3. All nuts, bolts and washers shall be hot dip galvanized.
4. All welds shall be 5/16" fillet welds unless otherwise noted.
5. For sections A-A, B-B and C-C see Drawing No.
6. All steel shall be painted 2 coats after erection.
7. V cut, bend and weld the vertical leg of the angle for connection to the vertical channel. (Typical to all connections to vertical channels.)



ELEVATION
Scale: 1"=20'

BRIDGE MOUNTING DETAILS FOR OVERHEAD SIGN

STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
SS-7	AS SHOWN	5/79	REGION I

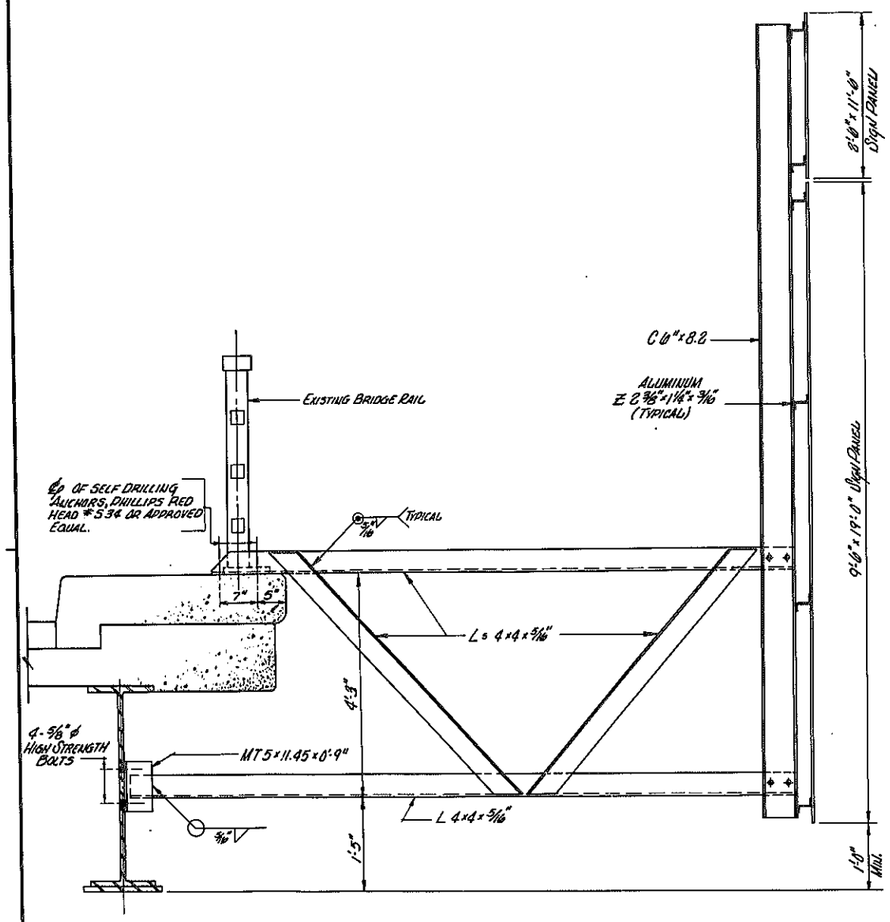
DATE ____ CHECKED BY ____ DRAFTED BY ____ CHECKED BY ____ ESTIMATED BY ____ CHECKED BY 6/79 DESIGNED BY H.O. IN CHARGE OF J.P. Taylor

HE 47-2 (5/76)

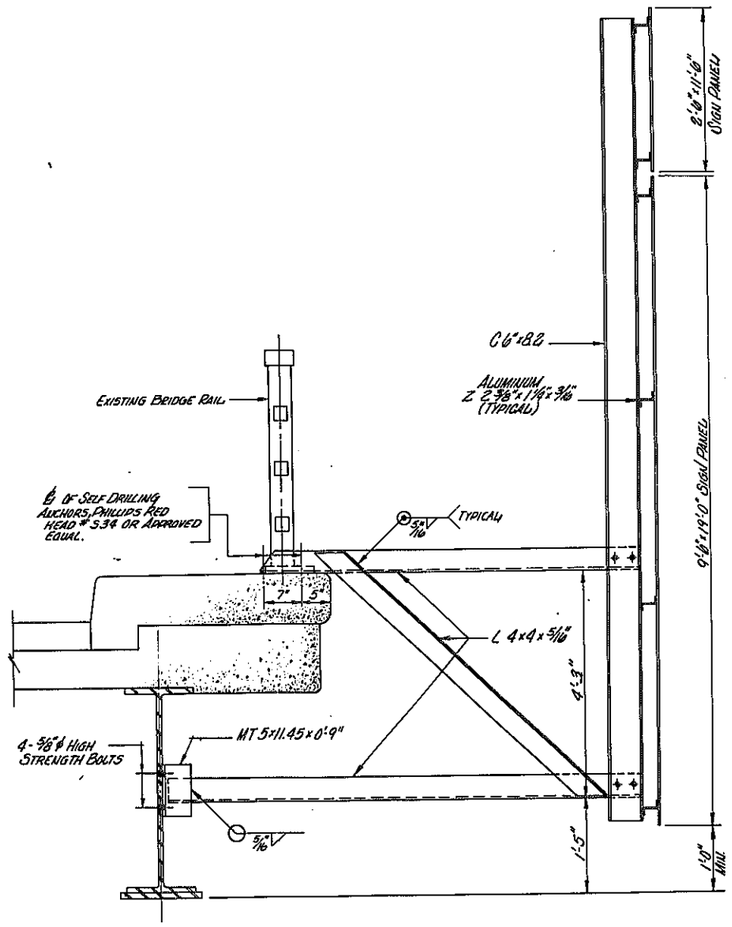
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	140	284

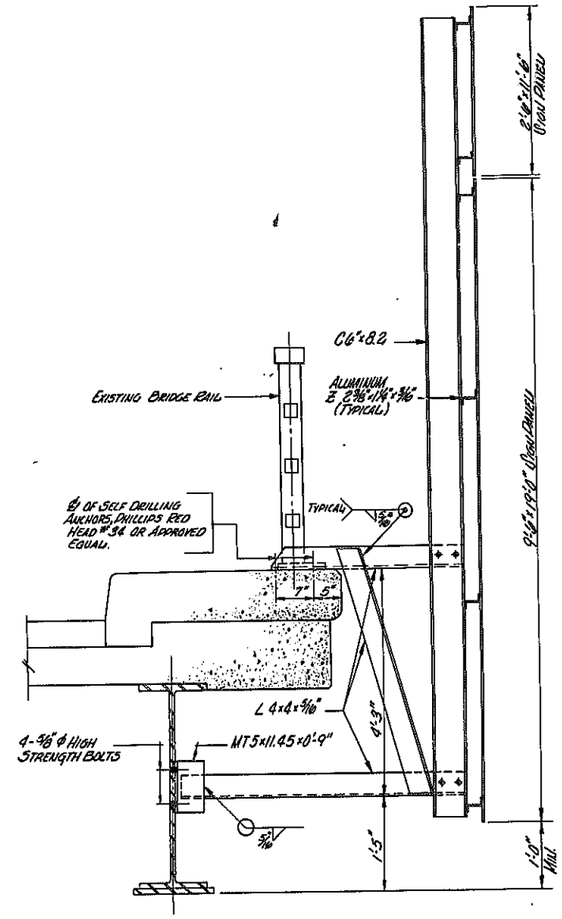
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



SECTION A-A
Scale 1"=1'-0"



SECTION B-B
Scale 1"=1'-0"



SECTION C-C
Scale 1"=1'-0"

BRIDGE MOUNTING DETAILS FOR OVERHEAD SIGN

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
SS-8	1"=1'-0"	5/79	REGION 1

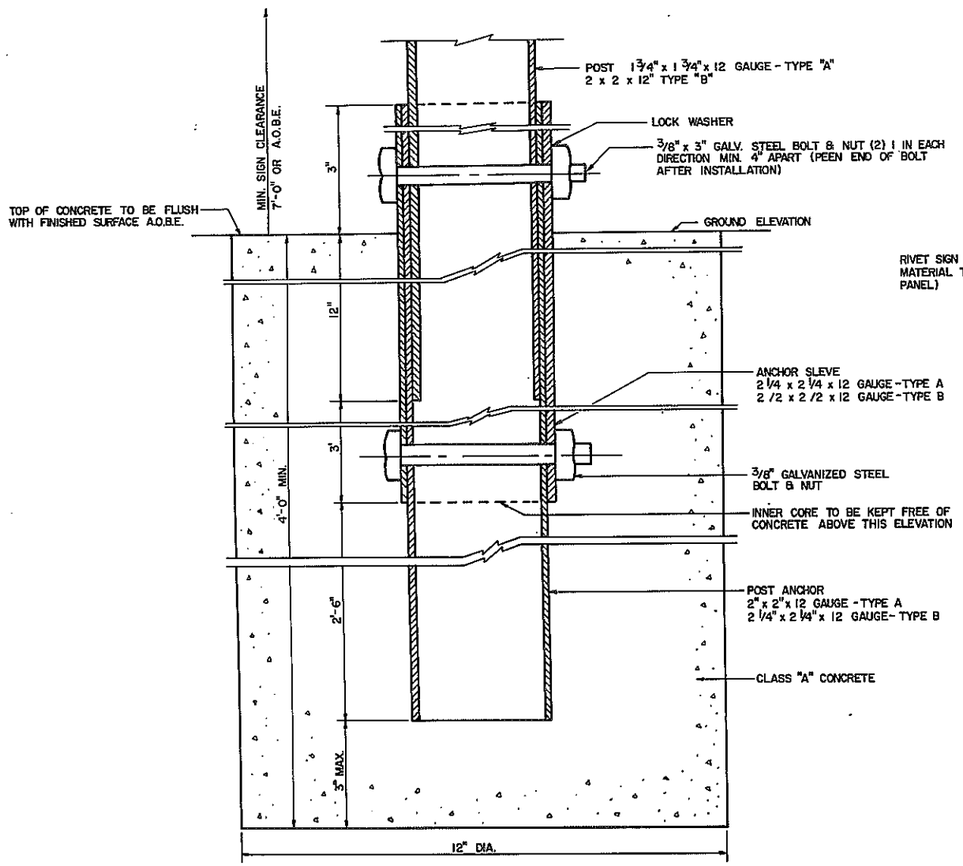
DATE

IC 47-2 (5/76)
IN CHARGE OF J.P. Tomlak DE

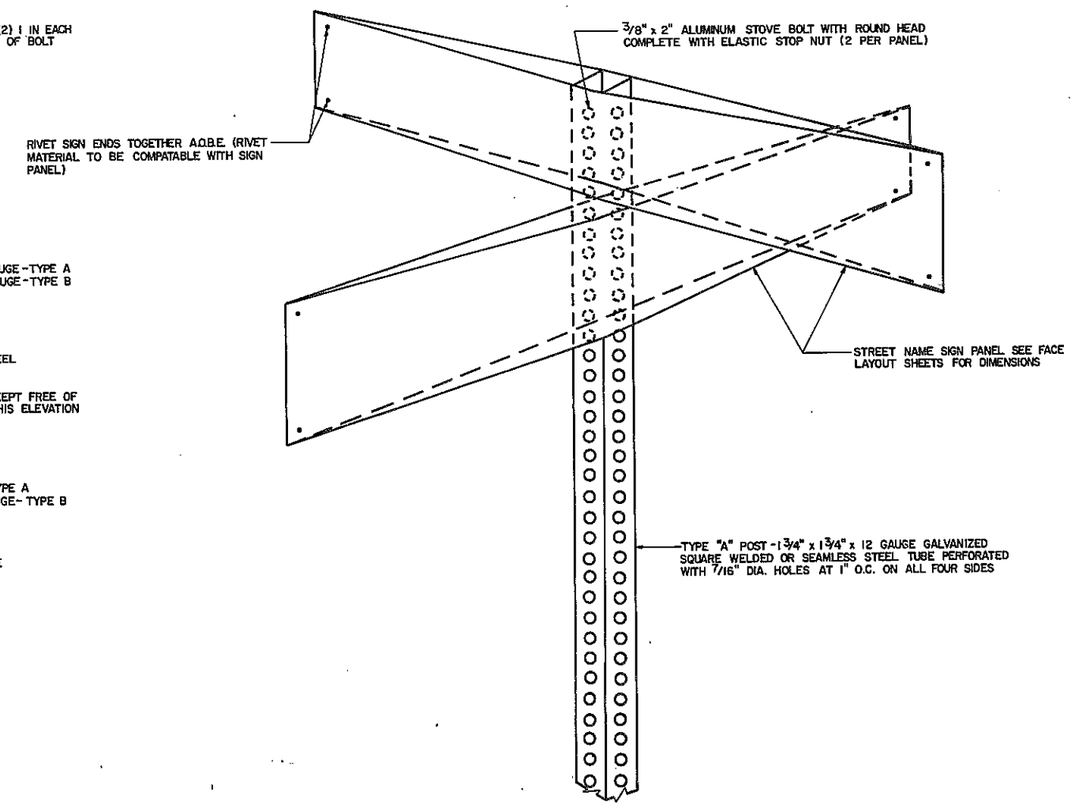
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	141	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



FOUNDATION DETAIL FOR TUBULAR SIGN POST



MOUNTING DETAIL FOR STREET NAME SIGN

IN CHARGE OF S P Topelli
DESIGNED BY M.O. DATED 6/79
CHECKED BY Dave Kimball DATED 7/25
REVIEWED BY DATED

STREET NAME SIGN DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
SS-9	NONE	7/79	I

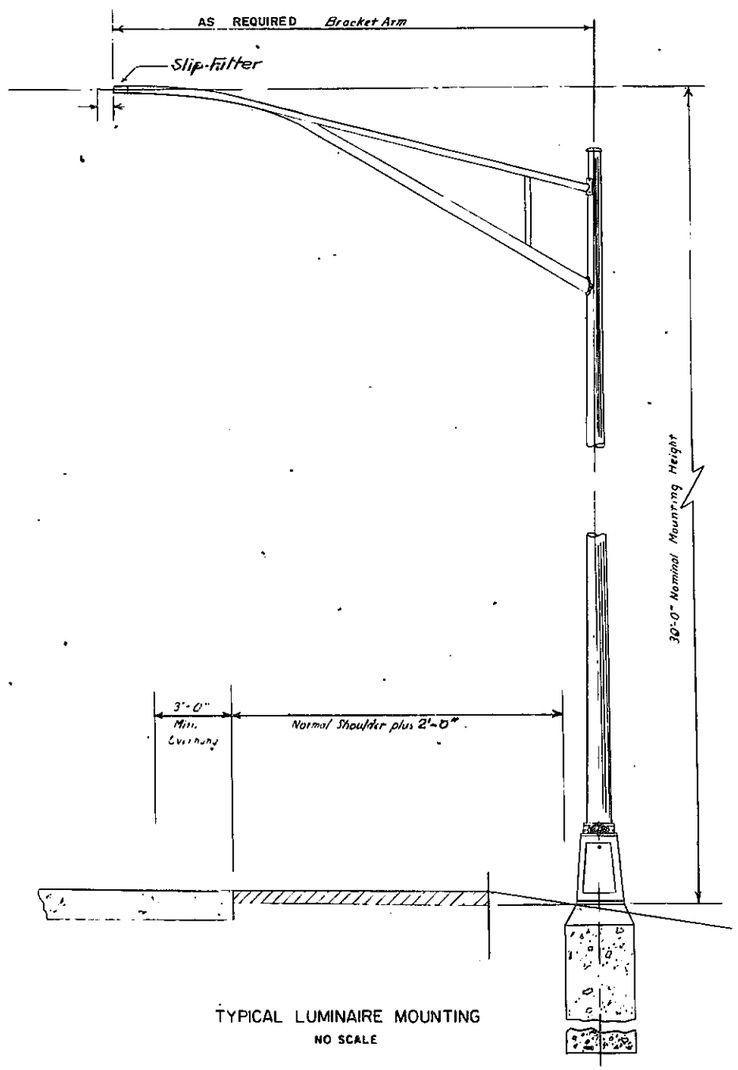
HC 476 (1974)

24

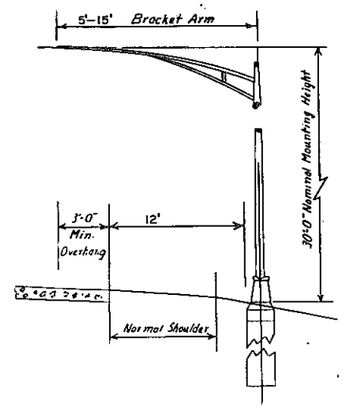
D96243

FED. ROAD REG. NO.	STATE	FED. AID PROJECT NO.	SHEET NO.	
1	N.Y.	I-88-2(10)	142	

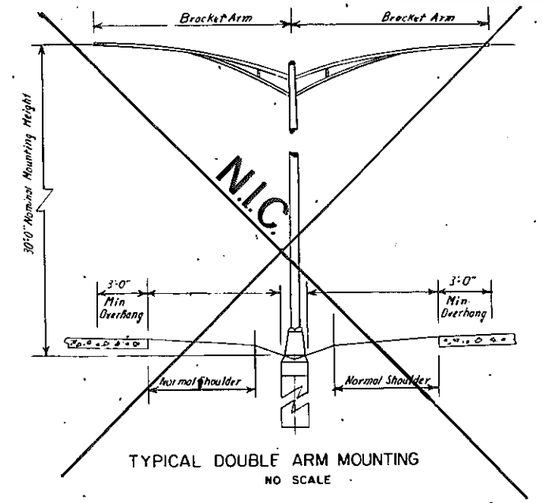
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



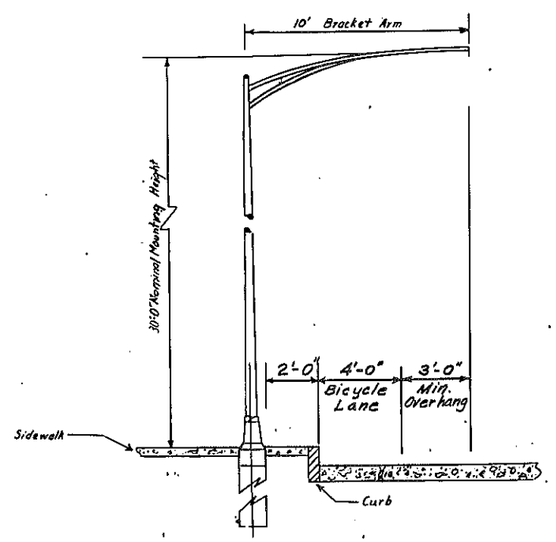
TYPICAL LUMINAIRE MOUNTING
NO SCALE



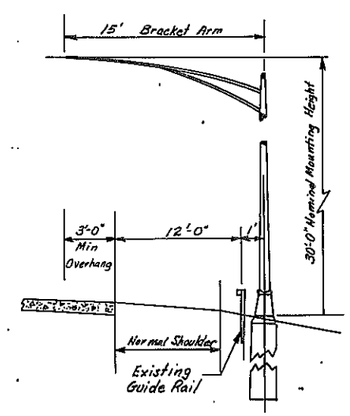
TYPICAL SINGLE ARM MOUNTING
NO SCALE



TYPICAL DOUBLE ARM MOUNTING
NO SCALE



NON MOUNTABLE
CURB
LUMINAIRE MOUNTING
NO SCALE



SINGLE ARM MOUNTING
NO SCALE

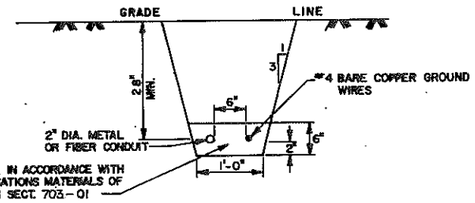
IN CHARGE OF J. K. Kolar
DESIGNED BY K. Jaskolka / A. Conway
ESTIMATE BY K. Jaskolka / S. Kolar
TRACED BY J. Davis / A. Jaskolka

L'D-1 LIGHTING DETAILS

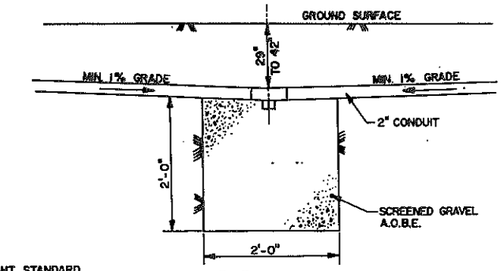
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	143	284

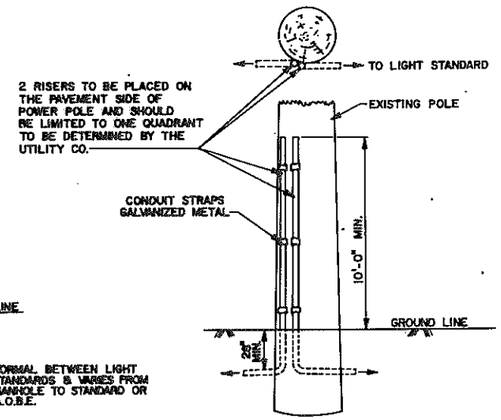
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



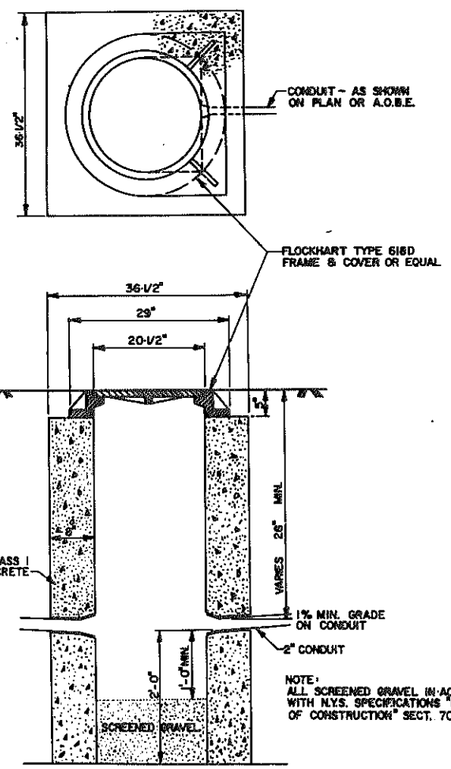
CONDUIT TRENCH
WHERE GROUND WIRE IS REQUIRED
NOT TO SCALE



"T" DRAIN
WHERE NECESSARY TO DRAIN AT A POINT OTHER THAN A PULLBOX OR A.O.B.E.
NOT TO SCALE

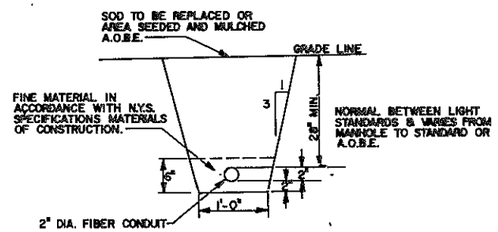


STANDARD PLACEMENT OF RISERS
NOT TO SCALE

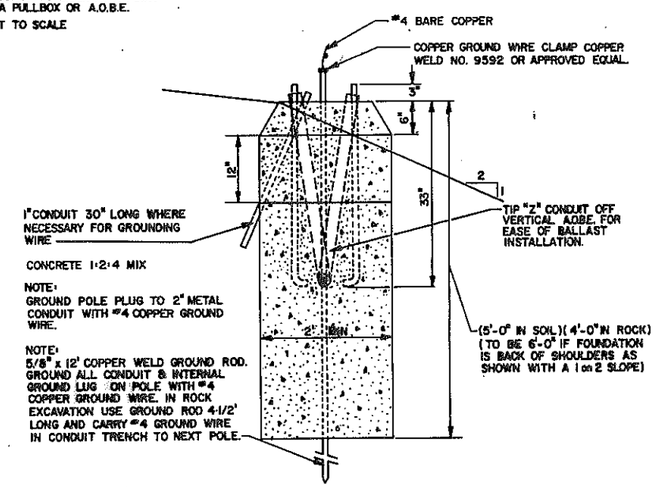


NOTE:
ALL SCREENED GRAVEL IN ACCORDANCE WITH N.Y.S. SPECIFICATIONS "MATERIALS OF CONSTRUCTION" SECT. 703-02

TYPICAL PULL BOX
NOT TO SCALE

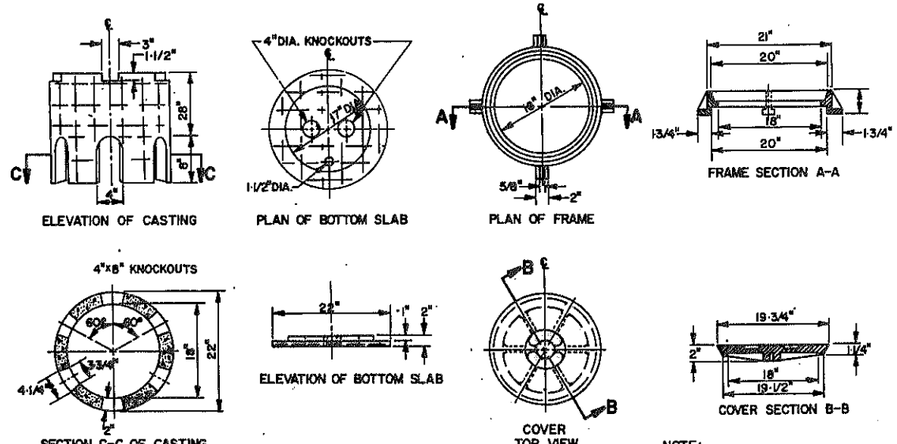


CONDUIT TRENCH
NOT TO SCALE



NOTE:
GROUND POLE PLUG TO 2" METAL CONDUIT WITH #4 COPPER GROUND WIRE.

NOTE:
5/8" x 12' COPPER WELD GROUND ROD. GROUND ALL CONDUIT & INTERNAL GROUND LUG ON POLE WITH #4 COPPER GROUND WIRE. IN ROCK EXCAVATION USE GROUND ROD 4-1/2' LONG AND CARRY #4 GROUND WIRE IN CONDUIT TRENCH TO NEXT POLE.



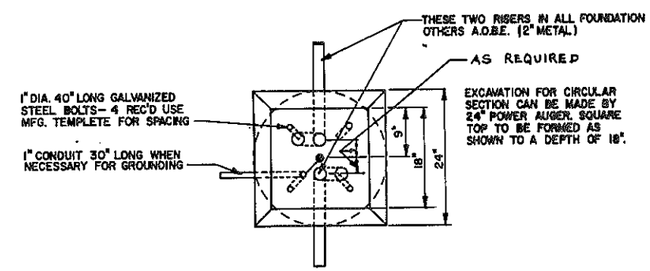
ELEVATION OF CASTING
PLAN OF BOTTOM SLAB
PLAN OF FRAME
FRAME SECTION A-A
SECTION C-C OF CASTING
ELEVATION OF BOTTOM SLAB
COVER TOP VIEW
COVER SECTION B-B

NOTE: FURNISH CONCRETE PLUGS FOR EACH KNOCKOUT IN CASTING AND BOTTOM SLAB.

PRECAST PULL BOX
(FOR LOCATIONS OTHER THAN ROADWAYS AND BRIDGE STRUCTURES.)
NOT TO SCALE

NOTE:
MATERIAL FOR FRAMES & GRATES SHALL CONFORM TO A.S.T.M. SPECIFICATION FOR GRAY IRON CASTINGS SERIAL DESIGNATION 48-36-CLASS NO. 30.

COVERS SHALL HAVE AN ABRASIVE GRAIN INCORPORATED IN THE WEARING SURFACE AT THE TIME OF CASTING.



CONCRETE LIGHT STANDARD FOUNDATION
NOT TO SCALE

DATED ___ REVIEWED BY ___ DATED ___ CHECKED BY ___ DATED ___ DESIGNED BY ___ DATED ___ IN CHARGE OF ___

LIGHTING DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
LD-2	NONE	7/79	1

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	144R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

DELINEATOR LOCATIONS - I-88-STUB CONNECTOR-INTERCHANGE

STATION TO STATION	RADIAL SPACING	ITEM 646.0601 WHITE	ITEM 646.0601 YELLOW	ITEM 646.0602 WHITE RED	ITEM 646.0602 YELLOW RED	ITEM 646.0603 WHITE WHITE	ITEM 646.0603 WHITE YELLOW	ITEM 646.0606 WHITE	ITEM 646.0606 YELLOW	ITEM 646.0607 WHITE
EB 703+70 - 733+70	200'	15 ~~16~~	-	-	-	-	-	-	-	-1
EB 735+56		1	-	-	-	-	-	-	-	-
EB 737+44 - 738+44	100'	-	-	-	-	-	-	2	-	-
EB 743+02 - 746+72	185'	3	-	-	-	-	-	2 -	-	-
EB 748+59 - 754+59	200'	3 4	-	-	-	-	-	1 -	-	-
EB 758+59 - 762+59	200'	3	-	-	-	-	-	1 -	-	-
WB 703+50 - 721+50	200'	10	-	-	-	-	-	2 -	-	-
WB 722+50 - 723+50	100'	-	-	-	-	-	-	2	-	-
WB 739+00 - 746+40	185'	4 5	-	-	-	-	-	2 -	-	-
WB 748+21 - 754+21	200'	4	-	-	-	-	-	2 -	-	-
WB 762+21		-	-	-	-	-	-	1	-	-
E 1+55 - 2+55 LT&RT	100'	-	-	-	-	-	-	-	-	4
E 3+55 - 4+55 LT&RT	100'	4	-	-	-	-	-	-	-	-
E 6+63 - 9+39 LT	92'	4	-	-	-	-	-	-	-	-
E 6+05 - 9+45 RT	85'	5	-	-	-	-	-	-	-	-
RA 10+44 - 12+44 RT	100'	-	-	-	-	-	-	3	-	-
RA 13+44 - 16+74 LT&RT	110'	-	-	4	4	-	-	-	-	-
RA 17+12 - 18+26 LT&RT	38'	-	-	4	4	-	-	-	-	-
RA 18+64 - 19+40 RT	38'	-	-	3	-	-	-	-	-	-
RB 10+60 - 22+60 LT	100'	-	-	-	-	-	-	13	-	-
RB 23+60 - 31+60 LT&RT	100'	9	9	-	-	-	-	-	-	-
RC 11+27 - 15+55 LT&RT	107'	6 -	5 -	5	5	-	-	-	-	-
RC 16+46 - 18+28 LT&RT	91'	4 -	3 -	3	3	-	-	-	-	-
RC 19+28 - /24+28 LT	100'	-	-	-	-	-	-	6	-	-
RD 10+97 RT		1	-	-	-	-	-	-	-	-
RD 11+90 - 13+76 LT&RT	93'	3	3	-	-	-	-	-	-	-
RD 15+05 - 16+34 LT&RT	129'	2	2	-	-	-	-	-	-	-
RD 17+72 - 19+10 LT&RT	138'	3 2	3 2	-	-	-	-	-	-	-
RD 20+10 - 23+10 RT	100'	-	-	-	-	-	-	4	-	-
RB 32+50 - RC 10+20 LT	20'					3	-	-	-	-
RC 10+65 - E 0+55	20'	-	-	-	-	-	4	-	-	-
RB 32+05 - E 0+55	20'	-	-	-	-	-	4	-	-	-
TURNAROUND EB 725		-	-	-	-	-	-	-	2	-

DELINEATOR LOCATIONS- THRUWAY INTERCHANGE

STATION TO STATION	RADIAL SPACING	ITEM 646.0601 WHITE	ITEM 646.0601 YELLOW	ITEM 646.0602 DOUBLE WHITE	ITEM 646.0607 WHITE	ITEM 646.0607 YELLOW	ITEM 646.0609 BACK TO BACK WHITE		
RM 10+00 - RM 13+92	49'	9	-	-	-	-	-		
RM 14+41 - RM 26+66	49'	24 26	26	-	-	-	-		
RM 27+15	49'	1	-	-	-	-	-		
RM 28+13 - TH 6110+50	98'	-	-	15 ~~16~~ -	-	-	-		
RK 10+00 - RK 13+92	98'	4 5	-	1 -	-	-	-		
RK 14+90 - RK 19+80	98'	5 6	6 7	1 -	-	-	-		
RK 20+29 - RK 23+72	49'	6 8	8	2 -	-	-	-		
RK 24+21	49'	-	-	-	1	-	-		
RK 24+70	49'	-	-	-	1	1	-		
RK 25+19	49'	-	-	-	1 -	1	-		
RK 25+68 - RK 26+66	49'	3	-	-	-	-	-		
RK 27+64 - RK 33+52	98'	-	-	7	-	-	-		
RK 34+50*	98'	1	-	-	-	-	-		
RK 35+48 - TH 6064+44	98'	-	-	6	-	-	-		
TH 6043+24	-	-	-	-	-	‡	-		
TH 6043+65	-	-	-	-	-	+	-		
RT 10+98 - RT 13+92	98'	-	-	-	-	-	6 4		
RT 14+41 - RT 20+78	49'	28	-	-	-	-	14		
RT 21+27 - RT 23+23	49'	-	-	-	10	-	8 5		
RT 23+72 - RT 34+50	49'	46	-	-	-	-	23		
RL 35+00	49'	1	-	-	-	-	+		
RL 35+49	49'	1	-	-	2 -	+	-		
RL 35+98 - RL 40+88	49'	10 11	11 12	-	2 -	-	-		
RL 41+37 - RL 42+35	49'	3	-	-	2 -	-	-		
RL 43+33 - RL 48+23	98'	6	-	-	-	-	-		
RL 50+19	98'	-	-	-	1	-	-		
RL 51+17 - TH 6065+56	98'	-	-	13	-	-	-		
RP 34+99	49'	1		-	-	-	-		
RP 35+48 - RP 41+85	49'	14	11 12	-	-	-	-		
RP 42+83 - TH 6106+32	98'	-	-	12 ~~10~~	-	-	-		
TH 6107+30	98'	1	-	-	-	-	-		
TH 6108+28 - TH 6109+26	98'	-	-	2	-	-	-		
TH 6095+40 - TH 6088+84WB	164'	5	-	-	-	-	-		
TH 6087+20 - TH 6079+00WB	164'	-	-	-	6	-	-		
TH 6077+82WB	-	1	-	-	-	-	-		
TH 6095+17EB	-	1	-	-	-	-	-		
TH 6093+96 - TH 6082+48EB	164'	5 6	-	-	-	-	-		
TH 6079+20EB	-	-	-	-	-	-	-		
TH 6077+99EB	-	1	-	-	-	-	-		

*RELOCATE $\frac{158}{1}$ PANEL ON POST ABOVE SINGLE WHITE DELINEATOR (10/188)

‡RELOCATE $\frac{158}{4}$ PANEL ON POST ABOVE SINGLE WHITE DELINEATOR (61/118)

DELINEATOR LOCATIONS- ROUTE 7

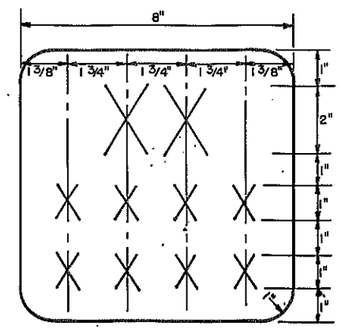
STATION TO STATION	ITEM 646.0601 WHITE	ITEM 646.0602 WHITE WHITE	ITEM 646.0602 WHITE RED	ITEM 646.0602 YELLOW RED	ITEM 646.0604 WHITE
RTE.7 @ OLD DUANESBURG RD.	4	16 ~~15~~	~~3~~	2	-
RTE.7 @ BURDECK RD.	2	8	-	-	9

NOTE: SEE 1"=20' SCALE DELINEATOR LOCATION PLAN FOR SPACING.

NOTE: BRACKET MOUNTED DELINEATORS SHALL BE MOUNTED AS SHOWN ON STANDARD SHEET 646-4 AND SHALL BE ATTACHED TO THE MEDIAN BARRIER AND ABUTMENTS WITH TWO EXPANDING CONCRETE ANCHOR BOLTS. THE COST OF THE ANCHOR BOLTS SHALL BE INCLUDED IN THE PRICE BID FOR THE DELINEATOR ITEM.

ITEM 646.0701 - REFERENCE MARKER 4' MOUNT HEIGHT

LEGEND LINE 1	LEGEND LINE 2	LEGEND LINE 3	LOCATION WESTBOUND	LOCATION EASTBOUND
MAINLINE				
88I	1608	1129	STA 708+32	STA 708+53
88I	1608	1130	STA 713+60	STA 713+81
88I	1608	1131	STA 718+88	STA 719+09
88I	1608	1132	STA 724+16	STA 724+37
88I	1608	1133	STA 729+44	STA 729+66
88I	1608	1134	STA 734+72	STA 734+94
88I	1608	1135	STA 739+96	STA 740+26
88I	1608	1136	STA 745+21	STA 745+57
88I	1608	1137	STA 750+48	STA 750+86
88I	1608	1138	STA 755+76	STA 756+14
88I	1608	1139	STA 761+04	STA 761+42
RAMPS			LOCATION	SIDE
88I	1602	R100	STA RA 16+56	RT
88I	1602	R200	STA RD 11+00	RT
88I	1602	R201	STA RD 16+28	RT
88I	1602	R300	STA RC 13+56	LT
88I	1602	R301	STA RC 10+66	LT
88I	1602	R400	STA RB 32+05	LT
88I	1602	R401	STA RB 26+77	LT
SERVICE ROAD			LOCATION	SIDE
88I	1651	S100	STA E 10+50	LT & RT
88I	1651	S101	STA E 4+87	LT & RT
88I	1651	S102	STA E 0+55	LT & RT



LOCATION MARKER FACE LAYOUT DETAIL
NO SCALE

NOTE: ALL LETTERS AND/OR NUMBERS ARE SERIES D.

REVISIONS

TABLES OF DELINEATOR LOCATIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
DLT-1	NONE	7/79	REGION 1

DATE 7/79 CHECKED BY DRAFTED BY CHECKED BY ESTIMATED BY CHECKED BY DESIGNED BY IN CHARGE OF

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	145	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY- DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

GENERAL NOTES:

1. ALL SIGNAL HEADS MOUNTED ON THE SPAN WIRE SHALL BE MOUNTED SO THAT ALL THE RED LENSES ARE AT THE SAME ELEVATION, EXCEPT THAT UNDER NO CIRCUMSTANCES SHALL THE REQUIRED PIPE EXTENTIONS EXCEED 30" IN LENGTH.
2. LEAD-INS FROM ALL LOOPS AND MAGNETIC DETECTORS SHALL BE TAGGED OR DIAGRAMMED IN THE CONTROLLER CABINET TO IDENTIFY THE LOOPS OR MAGNETIC DETECTORS THAT THEY SERVE.
3. A CARD SHALL BE PLACED ON THE INSIDE DOOR OF CONTROLLER CABINETS LISTINGS ALL THE COMPONENT PARTS BY SERIAL NUMBER WITH THE DATE OF INSTALLATION AND DATE OF OFFICAL OPERATION.
4. TERMINAL BLOCKS PROVIDED IN CONTROLLER CABINETS SHALL BE OF THE BINDER HEAD SCREW TYPE AND SHALL BE MOUNTED WITH THE SCREW HEADS ONTHE FRONT FACE OF THE BLOCKS FACING THE OPPOSITE WALL OF THE CABINET.
5. THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN EACH SIGNAL IN CONTINUOUS ACTUATED OPERATION AS SPECIFIED BY THE TABLE OF OPERATION FOR 30 DAYS BEFORE IT WILL BE ACCEPTED.
6. EACH PHASE SHALL HAVE ITS OWN GROUND WIRE.
7. THE CONTRACTOR SHALL PROVIDE A SIX FOOT SLACK IN THE POWER CABLE AND NEATLY STORE THIS SLACK WITHIN THE TRAFFIC SIGNAL POLE FOR POSSIBLE FUTURE POWER METER INSTALLATION.
8. ALL SIGNAL EQUIPMENT TO BE REMOVED WILL BECOME PROPERTY OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION, UNLESS OTHERWISE NOTED. NO ITEM OF EXISTING EQUIPMENT OR MATERIAL WILL BE DISPOSED OF. THE CONTRACTOR WILL STORE THE REMOVED EQUIPMENT A.O.B.E. UNTIL PICKED UP BY STATE MAINTENANCE FORCES.
9. IN THE EVENT THAT UNSUITABLE MATERIAL SUCH AS SILTS, SOFT CLAYS OR ORGANIC SOILS IS ENCOUNTERED IN THE EXCAVATION FOR POLE FOUNDATIONS, THE REGIONAL SOILS ENGINEER SHALL BE REQUESTED TO INVESTIGATE THE GIVEN FOUNDATION DESIGN.
10. IN AREAS WHERE SIGNAL POLES AND/OR CABINET BASES ARE TO BE REMOVED THE DISTURBED GROUND SHALL BE RESTORED TO A CONDITION MATCHING THE ADJACENT AREA. MATERIALS REQUIRED SHALL BE A.O.B.E. PAYMENT FOR WORK AND MATERIALS IS TO BE INCLUDED IN THE COST OF ITEM 680.23 OR 680.24.
11. THE LOCATION OF UNDERGROUND UTILITIES HAVE NOT BEEN SHOWN ON THE PLANS. THE CONTRACTOR SHALL SATISFY HIMSELF OF EXISTING CONDITIONS AND SUPPORT AND PROTECT IN A SUITABLE MANNER ALL LINES ENCOUNTERED IN THE TRENCHING AND EXCAVATION OPERATIONS.
12. THE COST OF THE CONDUIT WITHIN THE POLE FOUNDATION SHALL BE INCLUDED IN THE PRICE BID FOR THE FOUNDATION.
13. PAVEMENT MARKINGS, EXCEPT WHERE OTHERWISE INDICATED ON THE CONTRACT PLANS, WILL BE APPLIED BY NEW YORK STATE MAINTENANCE FORCES UPON COMPLETION OF THE PROJECT.
14. POLE MOUNTED CONTROLLERS SHALL BE MOUNTED ON THE BACKSIDE OF THE POLE OPPOSITE THE NEAREST EDGE OF PAVEMENT.
15. WHERE ONE CONDUIT IS TOO SMALL TO PERMIT THE PASSAGE OF THE REQUIRED WIRES, TWO CONDUITS SHALL BE INSTALLED.
16. WHERE NEW MAGNETIC DETECTORS ARE TO BE INSTALLED ALONG WITH NEW PULLBOXES, THE PULLBOXES ARE TO BE ORIENTED WITH THEIR LONG SIDES PARALLEL TO THE DIRECTION OF THE INCOMING 3" PVC CONDUIT.
17. WHERE NEW MAGNETIC DETECTORS ARE TO BE INSTALLED AND THE 3" PVC CONDUIT RUN INTO EXISTING PULLBOXES, THE WALLS OF THE PULLBOXES WILL BE CHIPPED OUT, IF NECESSARY, TO AN EXTENT TO BE DETERMINED BY THE ENGINEER SO THAT THE MAGNETIC PROBES CAN BE INSERTED INTO THE PVC CONDUIT EASILY AND WITH NO DAMAGE TO THE PROBES. THE COST OF MODIFYING PULLBOXES WILL BE INCLUDED UNDER ITEM 680.23-MODIFY AND REMOVE TRAFFIC SIGNAL EQUIPMENT.
18. UNLESS OTHERWISE NOTED, THE STATE OF NEW YORK SHALL HAVE MAINTENANCE JURISDICTION OVER ALL SIGNALS IN THIS CONTRACT UPON COMPLETION OF THEIR INSTALLATION AND OFFICIAL ACCEPTANCE.
19. THE CONTRACTOR WILL NOT BE PERMITTED TO CLOSE DOWN ANY TRAFFIC LANES DURING PEAK HOURS (7AM-9AM AND 4PM-6PM), AND AS OTHERWISE NOTED, UNLESS WRITTEN PERMISSION IS GRANTED IN ADVANCE FROM THE REGIONAL TRAFFIC ENGINEER.
20. PRECAST PULLBOXES OF APPROVED DESIGN MAY BE USED OUTSIDE THE ROADWAY AREA. PULLBOX DEPTHS SHALL BE AS REQUIRED BY FIELD CONDITIONS. PULLBOXES OF VARIOUS DEPTHS MAY BE REQUIRED AT A SINGLE INTERSECTION. PRECAST PULLBOXES THAT ARE NOT OF ADEQUATE DEPTH TO MEET THESE CONDITIONS SHALL NOT BE USED.
21. THE CONTRACTORS RESPONSIBILITY TO MAINTAIN A TRAFFIC SIGNAL SHALL INCLUDE MAINTAINING VEHICLE DETECTORS ON A VEHICLE ACTUATED INSTALLATION. IF A VEHICLE DETECTOR BECOMES INOPERABLE, THE CONTRACTOR SHALL REPAIR IT, REPLACE IT, OR IF A NEW COMPATABLE DETECTOR IS CALLED FOR ON THE PLANS, HE MAY, WITH THE WRITTEN PERMISSION OF THE E.I.C., CONNECT THE NEW DETECTOR INTO THE EXISTING SYSTEM.
22. NEW ANCHOR BASE SIGNAL POLES AND FOUNDATIONS:
    - A) THE CONCRETE POLE FOUNDATION SHALL CURE FOR A MINIMUM OF 14 DAYS BEFORE THE POLES SHALL BE INSTALLED.
    - B) THE CONCRETE POLE FOUNDATION SHALL CURE FOR A MINIMUM OF 28 DAYS BEFORE THE SPAN WIRE AND SIGNAL HEADS SHALL BE INSTALLED.
    - C) THE DEPTH OF THE CONCRETE POLE FOUNDATION SHALL BE AS SPECIFIED ON TRAFFIC SIGNAL MOUNTING SHEET. THE DEPTH OF THE FOUNDATION SHALL BE INCREASED, IF NECESSARY, TO PROVIDE A MINIMUM OF 6 INCHES COVER UNDER THE ANCHOR BOLTS SUPPLIED WITH THE POLE.
    - D) THE COST OF THE ANCHOR BOLTS AND STEEL REINFORCING SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 680.08 - POLE EXCAVATION AND CONCRETE FOUNDATION.
    - E) POLES SHALL MEET THE REQUIREMENTS OF "TYPE A", SECTION 724.03, OF THE STANDARD SPECIFICATIONS.
    - F) FOOTING CODES GIVEN ON SIGNAL PLAN SHEETS REFER TO SIGNAL MOUNTING SHEET. FOOTINGS SHALL BE 4'-0" DIAMETER, UNLESS OTHERWISE STATED ON THE PLANS OR A.O.B.E..
23. UNDER ITEM 680.08 "POLE EXCAVATION AND CONCRETE FOUNDATION", THE QUANTITY PAID FOR SHALL BE THE VOLUME OF CONCRETE SHOWN ON THE TABLE OF POLE FOUNDATIONS ON THE TYPICAL TRAFFIC SIGNAL MOUNTING DETAILS. AN AUGER WITH A MINIMUM DIAMETER OF 4' SHALL BE USED FOR THE EXCAVATION. IF SLOUGHING OF THE SIDES IS NOT ANTICIPATED OR EXPERIENCED THE CONCRETE SHALL BE PLACED IN DIRECT CONTACT WITH UNDISTURBED SOIL. IF SLOUGHING OF THE SIDES IS ANTICIPATED OR EXPERIENCED THE CONTRACTOR MAY USE PERMANENT SHEET PILING OR TUBULAR FORMS. WHEN THESE FORMS ARE USED THEY SHALL BE LEFT IN PLACE AND ANY VOIDS ON THE OUTSIDE SHALL BE FILLED WITH CONCRETE TO ONE FOOT BELOW FINISHED GRADE OR BACKFILLED WITH SELECT GRANULAR FILL A MINIMUM OF 24" BEHIND THE FORMS IN ACCORDANCE WITH SECTION 203-3.15 OF THE STANDARD SPECS. THE COST OF THE ADDITIONAL CONCRETE, SHEET PILING, FORMS, AND GRANULAR FILL SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 680.08.
24. REMOVAL OF EXISTING SIGNAL POLES AND FOUNDATIONS: ALL SIGNAL POLES AND FOUNDATIONS SHALL BE REMOVED AS DETAILED BELOW. UNLESS OTHERWISE NOTED ON THE PLANS OR ORDERED BY E.I.C., THE CONTRACTOR SHALL HAVE THE OPTION OF A OR B.
    - A) COMPLETE REMOVAL OF POLE AND FOUNDATIONS
        - I) AFTER REMOVAL, EMBEDDED TYPE POLES SHALL HAVE ALL THE CONCRETE REMOVED FROM THE BASE, OR THE BASE CUT OFF AND DISPOSED OF.
        - II) AFTER REMOVING AN ANCHOR BASE TYPE POLE FROM THE BASE, THE ENTIRE BASE SHALL BE REMOVED FROM THE GROUND AND DISPOSED OF.
    - B) POLE REMOVED AND FOUNDATION LEFT IN PLACE:
        - I) EMBEDDED TYPE POLES SHALL BE CUT OFF A MINIMUM OF 6 INCHES BELOW GRADE OR A.O.B.E..
        - II) ANCHOR BASE TYPE POLES SHALL BE REMOVED FROM THE BASE AND THE ANCHOR BOLTS SHALL BE CUT OFF A MINIMUM OF 6 INCHES BELOW GRADE OR A. O. B. E..
        - III) FOR BOTH TYPES OF POLES, THE FOUNDATION SHALL BE CHIPPED DOWN A MINIMUM OF 6 INCHES BELOW GRADE OR A.O.B.E.. ALL HOLES IN THE BASE SHALL BE FILLED WITH CONCRETE. THE AREA SHALL THEN BE RESTORED AS PER NOTE 10 ABOVE.
    - C) THE COST OF ALL WORK INVOLVED IN A AND B ABOVE SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 680.23 - MODIFY AND REMOVE TRAFFIC SIGNAL EQUIPMENT, OR ITEM 680.24 - REMOVE TRAFFIC SIGNAL EQUIPMENT.
25. AT LOCATIONS WHERE A 3-COLOR TRAFFIC SIGNAL IS TO BE INSTALLED WHERE NO 3-COLOR SIGNAL EXISTS, THE SIGNAL SHALL BE PLACED IN FLASHING OPERATION FOR ONE WEEK PRIOR TO 3-COLOR OPERATION. THIS WEEK SHALL NOT BE COUNTED TOWARD THE DAYS NECESSARY TO MEET THE FUNCTIONAL TEST REQUIREMENT (SECTION 680-3.24), NOR TOWARD THE 30 DAYS NECESSARY FOR SIGNAL ACCEPTANCE (NOTE 5).
26. NORMALLY, GEOMETRIC IMPROVEMENTS AT A SIGNALIZED INTERSECTION ARE AN INTEGRAL PART OF THE SIGNAL DESIGN, AND THEREFORE THIS WORK SHALL NOT BE COMPLETED UNTIL THE NEW SIGNAL IS IN PLACE AND OPERATIONAL. THE CONTRACTOR SHALL WORK WITH THE E.I.C. AND THE REGIONAL TRAFFIC ENGINEER TO COORDINATE THE GEOMETRIC WORK WITH THE SIGNAL WORK.
27. AT EACH FIRE HOUSE SIGNAL THE WIRE FROM THE FIRE HOUSE TO THE CONTROLLER SHALL BE SUPPLIED BY THE RESPECTIVE FIRE COMPANY. THE CONTRACTOR SHALL INSTALL THIS WIRE AND MAKE THE CONNECTIONS TO THE CONTROLLER. THE COST OF THIS WORK SHALL BE INCLUDED IN PRICE BID FOR THE CONTROLLER.
28. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY THAT WILL SUPPLY POWER TO THE TRAFFIC SIGNAL EQUIPMENT AT EACH INTERSECTION WITHIN 30 DAYS OF THE CONTRACT AWARD. THE UTILITY COMPANY WILL THEN DETERMINE AT WHAT LOCATION THE POWER SERVICE WILL BE PROVIDED. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS OF THE NEW YORK BOARD OF FIRE UNDERWRITERS IN THEIR SIGNAL SYSTEM INSTALLATIONS AND EACH INSTALLATION MUST PASS A FIRE UNDERWRITERS INSPECTION BEFORE THE SERVICE CONNECTION WILL BE MADE BY THE UTILITY COMPANY.
29. UNDER NO CONDITIONS SHALL THE CONTRACTOR TAP IN HIS OWN SERVICE CONNECTION. ALL SERVICE CONNECTIONS SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANY.
30. THE LOCATION OF THE RISER(S) ON UTILITY POLES SHALL BE DETERMINED BY THE UTILITY COMPANY.
31. 'ROAD WORK AHEAD' SIGNS SHALL BE INSTALLED ON ALL LEGS OF AN INTERSECTION WHILE THE CONTRACTOR IS WORKING AT THAT INTERSECTION. ADDITIONAL CONSTRUCTION SIGNS WILL BE INSTALLED AS REQUIRED BY THE M.U.T.C.D. OR A.O.B.E..
32. BALANCE ADJUSTERS AND SWIVEL BALANCERS WILL BE INSTALLED AT EACH HEAD OR COMBINATION OF HEADS.

LIGHTING DESIGN DATA

LUMINAIRE	G.E. M400, REFRACTOR: 510 REFLECTOR: 35-231865-04
LAMP	250 WATT H.P.S. G.E. LU50
LIGHT OUTPUT	27,500 LUMENS
MAINTENANCE FACTOR	0.8
ILLUMINATION	1.0 F.C. AVERAGE
OVERHANG ON PAV'T	3 FT.
VERTICAL CLEARANCE	30 FT.
LIGHT STANDARD TYPE	ALUMINUM ROUND
ILLUMINATION RATIO	1:3 AVERAGE MAINTAINED
CURVE NUMBER	G.E. 35-175820

LEGEND (LIGHTING)

	ALUMINUM LIGHT STANDARDS 30' MOUNTING HEIGHT 4'-15' BRACKETS
	PULLBOX (LIGHTING)
—M—	GALVANIZED STEEL CONDUIT (2")
	LIGHT STANDARD, BRIDGE MOUNTING
	CAST IRON JUNCTION BOX (BRIDGE)

LEGEND

SYMBOL PROPOSED	SYMBOL EXISTING	DESCRIPTION	SYMBOL PROPOSED	SYMBOL EXISTING	DESCRIPTION
		SIGNAL POLE			WOODEN GUIDE POST
		GROUND MOUNTED CONTROLLER			TRAFFIC SIGN
		POLE MOUNTED CONTROLLER			PED. PUSH BUTTON & ASSOCIATED PHASE
		SPAN WIRE ASSEMBLY			THERMOPLASTIC REFLECTORIZED PAVT. STRIPES.
		CONDUIT 2" DIAMETER			INDUCTANCE LOOP
		PULLBOX (TRAFFIC SIGNALS & NUMBER)			STOP LINE (BY OTHERS)
		TRAFFIC SIGNAL HEAD - 1 WAY			DETECTOR NUMBER (MICROPROCESSOR ONLY)
		TRAFFIC SIGNAL HEAD - 2 WAY			POST MOUNT FOR DELINEATOR OR SNOW PLOW MARKER
		TRAFFIC SIGNAL HEAD - 3 WAY			BAND OR BRACKET MOUNT FOR DELINEATOR
		TRAFFIC SIGNAL HEAD - 4 WAY			WHITE DELINEATOR PANEL, 3" x 3"
		PROGRAMMED SIGNAL HEAD - 1 WAY			YELLOW DELINEATOR PANEL, 3" x 3"
		PROGRAMMED SIGNAL HEAD - 2 WAY			RED DELINEATOR PANEL, 3" x 3"
		PHASE			GREEN SNOW PLOW MARKER PANEL, 3" x 3"
		SIGNAL FACE & NUMBER			BRACKET MOUNT. DELINEATOR
—S—		MESSENGER CABLE INSTALLATION			
—CT—		CABLE TV ATTACHMENT			
		MAGNETIC DETECTOR IN 3" PVC CONDUIT			
		MAGNETIC DETECTOR, SINGLE LANE TYPE			
		UTILITY POLE			

TRAFFIC SIGNAL GENERAL NOTES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	
TSGN	NO SCALE	7/79	REGION I

DATE 7/79 CHECKED BY ___ DRAFTED BY ___ CHECKED BY ___ ESTIMATED BY ___ CHECKED BY ___ DESIGNED BY ___ IN CHARGE OF ___ HE 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	146(1)	284
INTERSTATE ROUTE 508				
ROUTE 7 CONN. TO N.Y.S. THRUWAY;				
SCHENECTADY – DUANESBURG, PART I, S.H. 880				
SCHENECTADY COUNTY				

TABLE OF INDUCTANCE LOOP DESIGN

PHASE	NO. OF LOOPS	LOOP SIZE	TURNS	IND. LOOP DET. MODULES
ØB	1	6' x 80'	2	1
ØC	1	6' x 80'	2	1

TABLE OF MAGNETIC DETECTORS

PHASE	MAGNETIC DETECTOR PROBES	3" CONDUIT	MAGNETIC AMPLIFIER UNITS
ØA (WEST)	1	20 L.F.	1
ØA (EAST)	1	20 L.F.	1
ØA' (EAST)	1	20 L.F.	1

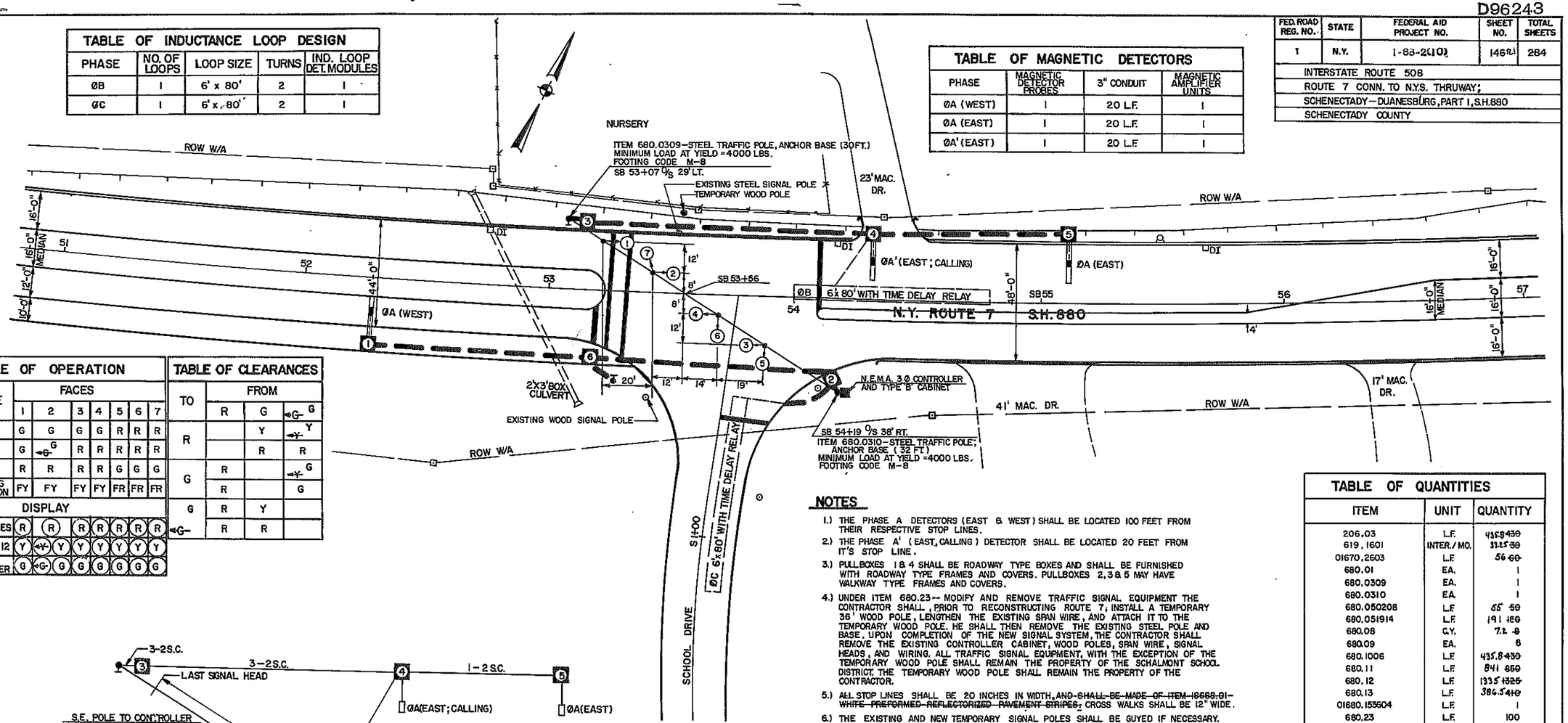
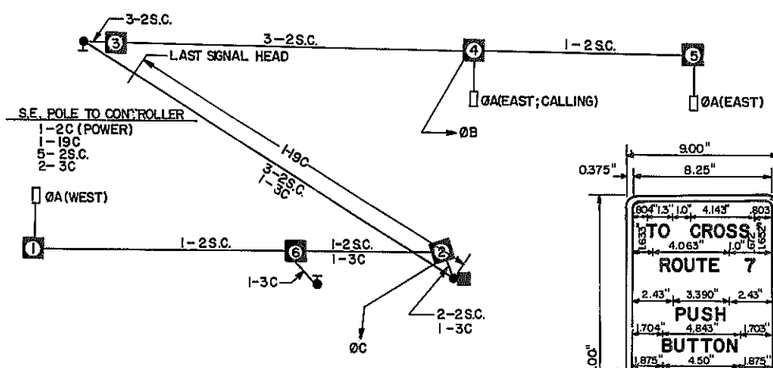


TABLE OF OPERATION

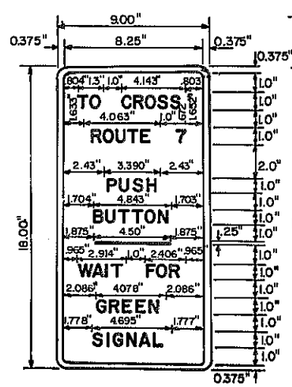
PHASE	FACES 1	2	3	4	5	6	7
ØA	G	G	G	G	R	R	R
ØB	G	G	R	R	R	R	R
ØC	R	R	R	R	G	G	G
FLASHING OPERATION	FY	FY	FY	FY	FR	FR	FR
DISPLAY							
ALL LENSES SHALL BE 12 INCH DIAMETER	R	R	R	R	R	R	R
	Y	Y	Y	Y	Y	Y	Y
	G	G	G	G	G	G	G

TABLE OF CLEARANCES

TO	FROM R	G	G
R		Y	Y
		R	R
G	R		G
	R		G
G	R	Y	
	R	R	



WIRING DIAGRAM
NOT TO SCALE



COLOR
BACKGROUND: WHITE
CHARACTERS: BLACK

M.U.T.C.D. NO.
R 68W MODIFIED

MOUNTING:
POLE MOUNTED

LETTER SERIES:
"D"

NOTE: PAYMENT SHALL BE INCLUDED IN ITEM 680.46– PEDESTRIAN PUSHBUTTON AND SIGN.

PEDESTRIAN PUSH BUTTON SIGN DETAIL

NOTES

1.) THE PHASE A DETECTORS (EAST & WEST) SHALL BE LOCATED 100 FEET FROM THEIR RESPECTIVE STOP LINES.

2.) THE PHASE A' (EAST, CALLING) DETECTOR SHALL BE LOCATED 20 FEET FROM IT'S STOP LINE.

3.) PULLBOXES 1 & 4 SHALL BE ROADWAY TYPE BOXES AND SHALL BE FURNISHED WITH ROADWAY TYPE FRAMES AND COVERS. PULLBOXES 2, 3 & 5 MAY HAVE WALKWAY TYPE FRAMES AND COVERS.

4.) UNDER ITEM 680.23– MODIFY AND REMOVE TRAFFIC SIGNAL EQUIPMENT THE CONTRACTOR SHALL, PRIOR TO RECONSTRUCTING ROUTE 7, INSTALL A TEMPORARY 36' WOOD POLE, LENGTHEN THE EXISTING SPAN WIRE, AND ATTACH IT TO THE TEMPORARY WOOD POLE. HE SHALL THEN REMOVE THE EXISTING STEEL POLE AND BASE. UPON COMPLETION OF THE NEW SIGNAL SYSTEM, THE CONTRACTOR SHALL REMOVE THE EXISTING CONTROLLER CABINET, WOOD POLES, SPAN WIRE, SIGNAL HEADS, AND WIRING. ALL TRAFFIC SIGNAL EQUIPMENT, WITH THE EXCEPTION OF THE TEMPORARY WOOD POLE SHALL REMAIN THE PROPERTY OF THE SCHALMONT SCHOOL DISTRICT. THE TEMPORARY WOOD POLE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

5.) ~~ALL STOP LINES SHALL BE 20 INCHES IN WIDTH, AND SHALL BE MADE OF ITEM 18688.01– WHITE PREFORMED REFLECTORIZED PAVEMENT STRIPES.~~ CROSS WALKS SHALL BE 12" WIDE.

6.) THE EXISTING AND NEW TEMPORARY SIGNAL POLES SHALL BE GUYED IF NECESSARY.

7.) THE 3Ø NEMA CONTROLLER, ITEM 01680.153604, SHALL INCLUDE THE TIMING MODULE, 2 VEHICLE ACTUATED PHASE MODULES, 1 CONFLICT MONITOR, 2 INDUCTIVE LOOP DETECTORS, 1 SOLID-STATE FLASHER, 3 MAGNETIC AMPLIFIERS, 1 TYPE "B" CABINET, 3 SOLID STATE SWITCH PACKS, & 2 TIME DELAY RELAYS. THE MAGNETIC AMPLIFIER FOR THE ØA' (EAST) DETECTOR SHALL ONLY OPERATE DURING THE YELLOW AND RED INTERVALS OF THE CYCLE FOR PHASE A AND SHALL ONLY REGISTER CALLS IF THE ØA (EAST) IS NOT ACTUATED. ITEM 01680.15 SHALL ALSO INCLUDE 1 VEHICLE & PEDESTRIAN ACTUATED PHASE MODULE, 1 OVER LAP MODULE AND ANY OTHER EQUIPMENT NECESSARY TO PROVIDE THE OPERATION AS SHOWN.

8.) THE PEDESTRIAN PUSH BUTTONS SHALL BE ASSOCIATED WITH PHASE C.

TABLE OF QUANTITIES

ITEM	UNIT	QUANTITY
206.03	L.F.	~~435~~ 8430
619.1601	INTER./MO.	~~33~~ 25 30
01670.2603	L.F.	~~56~~ 60
680.01	EA.	1
680.0309	EA.	1
680.0310	EA.	1
680.050208	L.F.	~~65~~ 50
680.051914	L.F.	~~191~~ 180
680.08	C.Y.	~~7.2~~ 8
680.09	EA.	6
680.1006	L.F.	~~435~~ 8430
680.11	L.F.	~~841~~ 860
680.12	L.F.	~~1335~~ 1325
680.13	L.F.	~~384.5~~ 410
01680.153604	L.F.	1
680.23	L.F.	100
680.3032	EA.	1
680.3035	EA.	2
680.3072	EA.	1
~~18688.01~~	~~L.F.~~	~~0.600~~
10680.4404	EA.	3
680.1010	L.F.	~~7~~ 12
680.46	EA.	2
680.050314	L.F.	~~363~~ 350
15680.94	EA	1

REVISIONS

TRAFFIC SIGNAL PLAN
N.Y. ROUTE 7 AT SCHALMONT SCHOOL

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
TS-1	1"=20'	5/79	1

DATE 7/79
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1-88-2(10)	147R.1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

TABLE OF OPERATION

PHASE	FACES 1	2	3	4	5	6
Ø0	G	G	R	R	R	R
Ø1	R	R	G	G	R	R
Ø3	←G R	R	R	R	R	R –G→
Ø0+1	G	G	G	G	R	R
Ø0+3	←G G	G	R	R	R	R –G→
Ø4	R	R	R	R	G	G
FLASHING OPERATION	FY	FY	FY	FY	FR	FR
DISPLAY						
ALL LENSES	(R)	(R)	(R)	(R)	(R)	(R)
ARE 12 INCH	(←Y)	(Y)	(Y)	(Y)	(Y)	(Y) (Y→)
DIAMETER	(←G)	(G)	(G)	(G)	(G)	(G) (G→)

TABLE OF CLEARANCES

TO	FROM R	G	R	R	G
R	R	Y	R –Y→	←Y R	←Y Y
	R	R	R	R	R
G	R	G	R –G→	←Y R	←Y G
	R	G	R –G→	R	G
R –G→	R	Y –G→	R –G→	—	—
	R	R –G→	R –G→	—	—
R ←G–	R	Y	—	—	←G Y
	R'	R	—	—	←G R
←G–G	R	G	–	←G R	—
	R	G	–	←G R	—

NOTE: THE CLEARANCE FROM G TO R ON FACE 6 WILL BE Y ~~Y~~ FOR THE FIRST CLEARANCE AND R FOR THE SECOND CLEARANCE.

TABLE OF MAGNETIC DETECTORS

PHASE	MAGNETIC DETECTOR PROBES	3" CONDUIT	DUAL MAGNETIC AMPLIFIER UNITS
Ø0 (5)	1	23 L.F.	1
Ø1 (6)	1	47 L.F.	

TABLE OF INDUCTANCE LOOP DESIGN

PHASE	NO. OF LOOPS	LOOP SIZE	TURNS	DUAL LOOP DET. MODULES
Ø3 (1)	1	6'x 80'	2	1
Ø4 (2)	1	6'x 70'	2	
Ø4 (3)	1	6'x 70'	2	

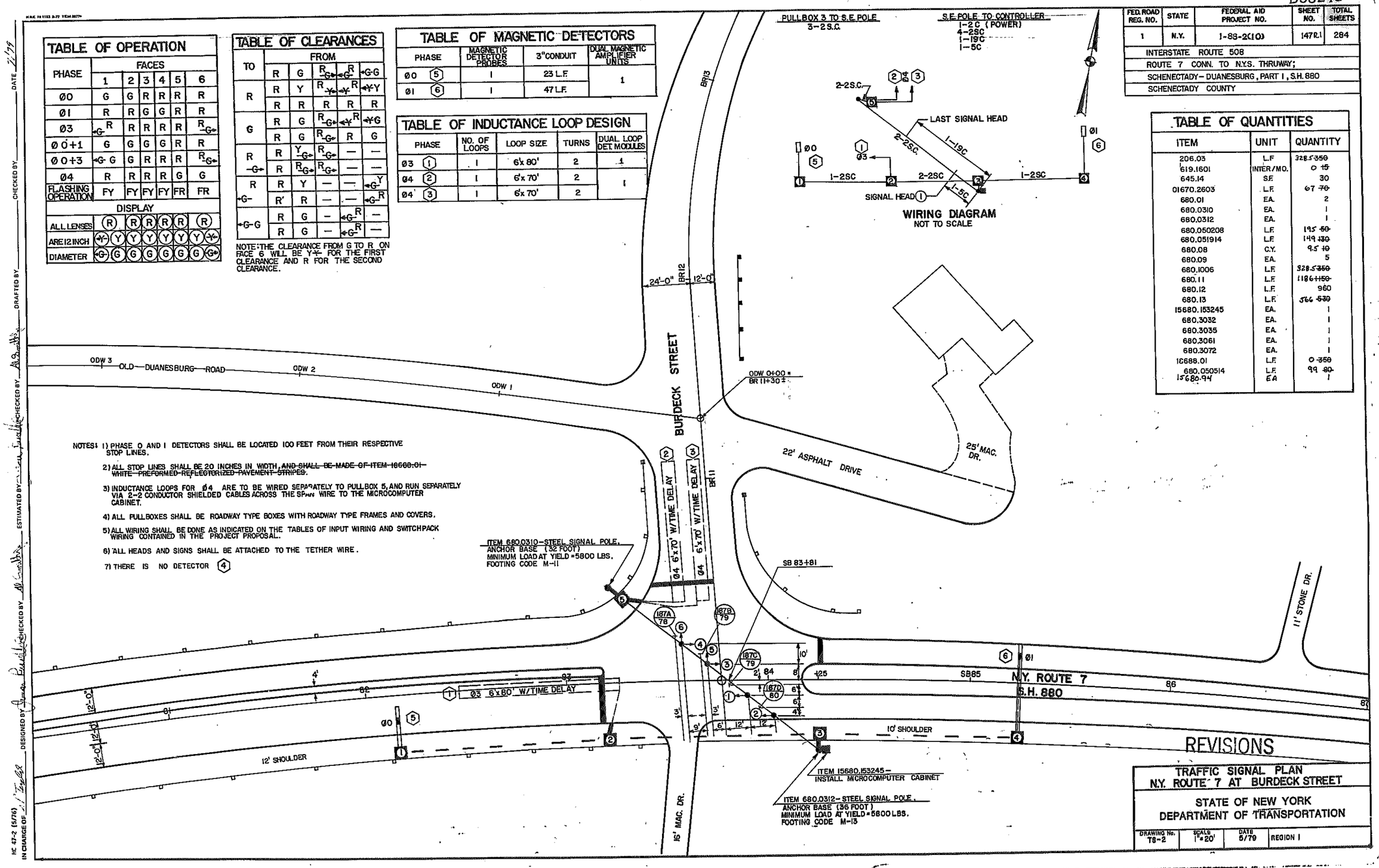


TABLE OF QUANTITIES

ITEM	UNIT	QUANTITY
206.03	L.F.	328.5 ~~350~~
619.1601	INTER/MO.	0 ~~15~~
645.14	S.F.	30
01670.2603	L.F.	67 ~~70~~
680.01	EA.	2
680.0310	EA.	1
680.0312	EA.	1
680.050208	L.F.	195 ~~50~~
680.051914	L.F.	149 ~~130~~
680.08	C.Y.	9.5 ~~10~~
680.09	EA.	5
680.1006	L.F.	328.5 ~~350~~
680.11	L.F.	1186 ~~1150~~
680.12	L.F.	960
680.13	L.F.	566 ~~630~~
15680.153245	EA.	1
680.3032	EA.	1
680.3035	EA.	1
680.3061	EA.	1
680.3072	EA.	1
16688.01	L.F.	0 ~~350~~
680.050514	L.F.	99 ~~80~~
15680.94	EA	1

REVISIONS

TRAFFIC SIGNAL PLAN
N.Y. ROUTE 7 AT BURDECK STREET

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
TS-2	1" = 20'	5/79	REGION 1

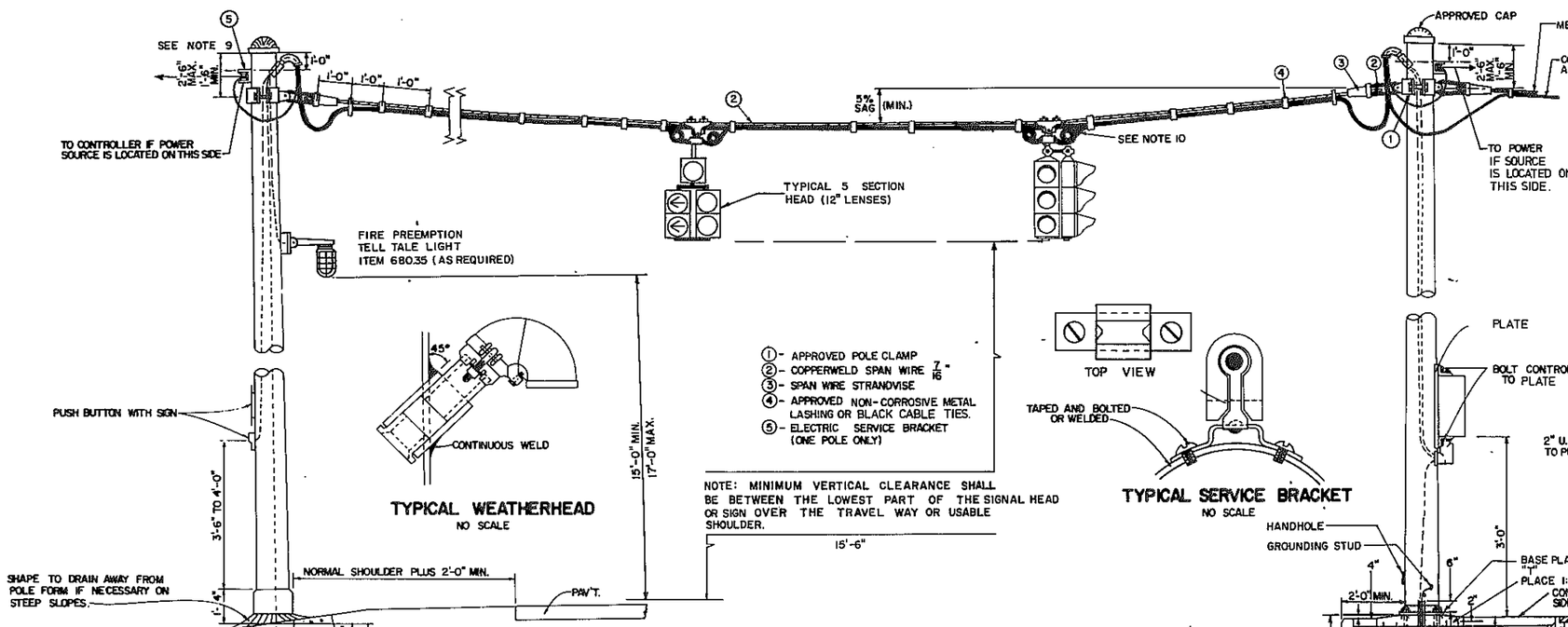
DATE 5/79 CHECKED BY DRAFTED BY CHECKED BY ESTIMATED BY CHECKED BY DESIGNED BY IN CHARGE OF

HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT No.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	148	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

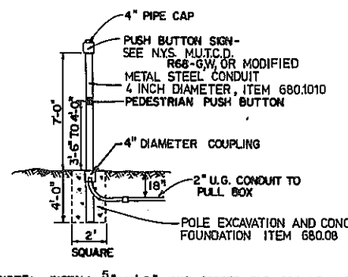


TYPICAL TRAFFIC SIGNAL INSTALLATIONS

NO SCALE

NOTES.

1. THE TRAFFIC SIGNAL INSTALLATIONS AND FEATURES INDICATED ON THIS SHEET ARE TYPICAL ONLY. IT MAY BE NECESSARY TO MAKE MODIFICATIONS FOR INDIVIDUAL INSTALLATIONS. WHEN INSTALLING TRAFFIC SIGNALS, THE FEATURES OF THESE TYPICAL INSTALLATIONS SHALL BE INCORPORATED AS MUCH AS PRACTICABLE ACCORDING TO THE INSTRUCTION OF THE ENGINEER.
2. WEATHERHEADS AND SERVICE BRACKETS SHALL BE LOCATED AND INSTALLED AS SHOWN ABOVE.
3. WHEN DEPTH OF EXCAVATION EXCEEDS 5'-0" TEMPORARY SHEET PILING SHALL BE USED AS DIRECTED BY THE ENGINEER. PAYMENT FOR TEMPORARY SHEET PILING WILL BE INCLUDED IN THE PRICE BID FOR TRAFFIC SIGNAL ITEMS. DURING BACKFILL OPERATIONS THE SHEETING MAY BE PULLED IF PERMITTED BY THE ENGINEER WHEN THE TOP OF THE FILL REACHES 5'-0" BELOW THE FINISHED GROUND SURFACE.
4. ALL SIGNAL POLES SHALL HAVE HAND HOLES AS PROVIDED BY THE MANUFACTURER OF APPROVED POLES.
5. ALL POLES SHALL BE RAKED 5 INCHES FOR THE FIRST 120' SPAN THEN 1" FOR EACH ADDITIONAL 20' OR A.O.B.E. POLE LENGTHS WILL BE AS SPECIFIED UNDER SPECIAL SPECIFICATIONS FOR THAT ITEM.
6. CONDUIT WILL BE AS SPECIFIED IN THE SPECIFICATIONS FOR THAT ITEM.
7. SIGNAL HEADS WILL BE ADJUSTED FOR ALIGNMENT AS ORDERED BY THE ENGINEER.
8. MINIMUM CLEARANCE AT ANY POINT BETWEEN THE PAVEMENT OR USABLE SHOULDER SHALL BE 15.5 FEET.
9. POLE SIZES SHALL BE AS SPECIFIED UNDER THE RESPECTIVE ITEMS. ALL POLES SHALL BE CUT FROM THE TOP WHEN CUTTING IS REQUIRED.
10. THE CONNECTION BETWEEN SIGNAL HEADS AND THE CONDUCTOR CABLE RUNNING TO THE HEADS SHALL BE MADE WITH APPROVED STRANDED WIRE ONLY.
11. EMBEDDED POLES WILL BE SET IN A CONCRETE BASE CONSISTING OF A MINIMUM OF 3 CUBIC YARDS OF APPROVED CONCRETE.
12. PRIOR TO PERFORMING ANY WORK INVOLVING TRAFFIC SIGNALS THE CONTRACTOR WILL NOTIFY IN WRITING, AT LEAST 72 HOURS IN ADVANCE, THE ENGINEER IN CHARGE AND THE OFFICE OF THE REGIONAL TRAFFIC ENGINEER.
13. DURING THE COURSE OF CONSTRUCTION IT IS NECESSARY TO VARY SLIGHTLY FROM THE CONSTRUCTION PLANS. IT SHALL THEREFORE BECOME THE CONTRACTORS RESPONSIBILITY TO VERIFY THE POLE LENGTH REQUIRED.
14. WHERE UNDISTURBED EARTH CANNOT BE ENCOUNTERED FOR FOUNDATIONS, THE CONCRETE SHALL BE POURED IN ACCORDANCE WITH THE DIRECTIONS AND ORDERS OF THE ENGINEER.
15. ALL ATTACHMENTS TO TRAFFIC SIGNAL POLES SHALL BE INSTALLED AFTER ERECTING THE POLE & ATTACHMENT OF SPAN & ADJUSTMENT OF SIGNAL HEAD CLEARANCE.



NOTE: INSTALL 5/8" x 10'-0" LONG COPPERWELD GROUND ROD AT BASE OF POLE AS DIRECTED BY THE ENGINEER.

PUSH BUTTON POLE

NO SCALE

NOTE: THE PRICE OF THE STEEL REINFORCING AND THE ANCHOR BOLTS IS TO BE INCLUDED IN THE AMOUNT BID FOR ITEM 680.08 POLE EXCAVATION AND CONCRETE FOUNDATION.

TABLE OF ANCHOR BASE FOOTINGS

CODE NO.	MOMENT(FT-K) TOP OF EARTH	TYPE M - 4' - 0" @ FOOTING MIN. EMBEDMENT	VERT REINFORCING	CONCRETE VOLUME
2	50 & UNDER	5'-0"	8-#5 bars	2.3C.Y.
3	60	5'-6"	8-#5 bars	2.6C.Y.
4	70	6'-0"	12-#5 bars	2.8C.Y.
5	80	6'-6"	12-#5 bars	3.0C.Y.
6	90	6'-9"	12-#5 bars	3.1C.Y.
7	100	7'-0"	16-#5 bars	3.3C.Y.
8	120	7'-9"	16-#5 bars	3.6C.Y.
9	140	8'-6"	16-#5 bars	4.0C.Y.
10	160	9'-0"	16-#5 bars	4.2C.Y.
11	180	9'-9"	16-#5 bars	4.5C.Y.
12	200	10'-3"	16-#6 bars	4.8C.Y.
13	220	10'-9"	16-#6 bars	5.0C.Y.
14	250	11'-9"	16-#7 bars	5.5C.Y.
15	275	12'-6"	16-#7 bars	5.8C.Y.
16	300	13'-0"	16-#8 bars	6.1C.Y.
17	350	14'-4"	16-#8 bars	6.7C.Y.

SPECIAL NOTE:

THIS SHEET INDICATES AN ASSORTMENT OF TYPICAL TRAFFIC SIGNAL DETAILS USED IN TRAFFIC SIGNAL SYSTEMS.

THE ACTUAL DETAILS USED FOR THIS CONTRACT SHALL BE AS REQUIRED UNDER THE RESPECTIVE ITEM.

TYPICAL TRAFFIC SIGNAL MOUNTINGS AND MISCELLANEOUS DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
TS-3	NO SCALE	10/78	1

DATED 7/77 REVIEWED BY DATED CHECKED BY DATED 7/77 DESIGNED BY S P Tucker

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	149	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

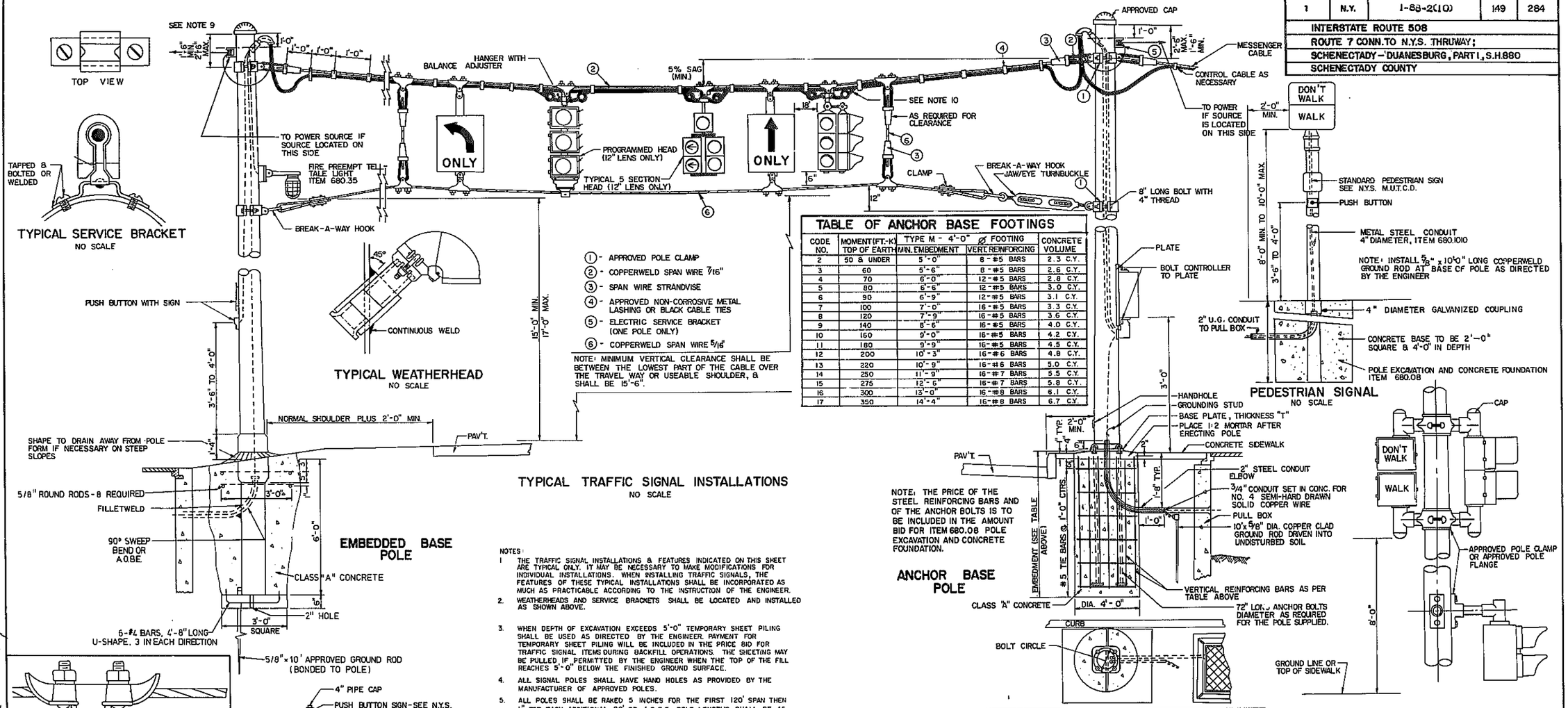


TABLE OF ANCHOR BASE FOOTINGS				
CODE NO.	MOMENT (FT.-K) TOP OF EARTH	TYPE M - 4'-0" ⌀ FOOTING MIN. EMBEDMENT	VERT. REINFORCING	CONCRETE VOLUME
2	50 & UNDER	5'-0"	8 - #5 BARS	2.3 C.Y.
3	60	5'-6"	8 - #5 BARS	2.6 C.Y.
4	70	6'-0"	12 - #5 BARS	2.8 C.Y.
5	80	6'-6"	12 - #5 BARS	3.0 C.Y.
6	90	6'-9"	12 - #5 BARS	3.1 C.Y.
7	100	7'-0"	16 - #5 BARS	3.3 C.Y.
8	120	7'-9"	16 - #5 BARS	3.6 C.Y.
9	140	8'-6"	16 - #5 BARS	4.0 C.Y.
10	160	9'-0"	16 - #5 BARS	4.2 C.Y.
11	180	9'-9"	16 - #5 BARS	4.5 C.Y.
12	200	10'-3"	16 - #6 BARS	4.8 C.Y.
13	220	10'-9"	16 - #6 BARS	5.0 C.Y.
14	250	11'-9"	16 - #7 BARS	5.5 C.Y.
15	275	12'-6"	16 - #7 BARS	5.8 C.Y.
16	300	13'-0"	16 - #8 BARS	6.1 C.Y.
17	350	14'-4"	16 - #8 BARS	6.7 C.Y.

1 - APPROVED POLE CLAMP
2 - COPPERWELD SPAN WIRE 7/16"
3 - SPAN WIRE STRANDVISE
4 - APPROVED NON-CORROSIVE METAL LASHING OR BLACK CABLE TIES
5 - ELECTRIC SERVICE BRACKET (ONE POLE ONLY)
6 - COPPERWELD SPAN WIRE 5/16"

NOTE: MINIMUM VERTICAL CLEARANCE SHALL BE BETWEEN THE LOWEST PART OF THE CABLE OVER THE TRAVEL WAY OR USEABLE SHOULDER, & SHALL BE 15'-6".

TYPICAL TRAFFIC SIGNAL INSTALLATIONS
NO SCALE

NOTES:

1. THE TRAFFIC SIGNAL INSTALLATIONS & FEATURES INDICATED ON THIS SHEET ARE TYPICAL ONLY. IT MAY BE NECESSARY TO MAKE MODIFICATIONS FOR INDIVIDUAL INSTALLATIONS. WHEN INSTALLING TRAFFIC SIGNALS, THE FEATURES OF THESE TYPICAL INSTALLATIONS SHALL BE INCORPORATED AS MUCH AS PRACTICABLE ACCORDING TO THE INSTRUCTION OF THE ENGINEER.
2. WEATHERHEADS AND SERVICE BRACKETS SHALL BE LOCATED AND INSTALLED AS SHOWN ABOVE.
3. WHEN DEPTH OF EXCAVATION EXCEEDS 5'-0" TEMPORARY SHEET PILING SHALL BE USED AS DIRECTED BY THE ENGINEER. PAYMENT FOR TEMPORARY SHEET PILING WILL BE INCLUDED IN THE PRICE BID FOR TRAFFIC SIGNAL ITEMS DURING BACKFILL OPERATIONS. THE SHEETING MAY BE PULLED IF PERMITTED BY THE ENGINEER WHEN THE TOP OF THE FILL REACHES 5'-0" BELOW THE FINISHED GROUND SURFACE.
4. ALL SIGNAL POLES SHALL HAVE HAND HOLES AS PROVIDED BY THE MANUFACTURER OF APPROVED POLES.
5. ALL POLES SHALL BE RAKED 5 INCHES FOR THE FIRST 120' SPAN THEN 1" FOR EACH ADDITIONAL 20' OR A.O.B.E. POLE LENGTHS SHALL BE AS SPECIFIED UNDER SPECIAL SPECIFICATIONS FOR THAT ITEM.
6. CONDUIT WILL BE AS SPECIFIED IN THE SPECIFICATIONS FOR THAT ITEM.
7. SIGNAL HEADS WILL BE ADJUSTED FOR ALIGNMENT AS ORDERED BY THE ENGINEER.
8. MINIMUM CLEARANCE AT ANY POINT BETWEEN THE PAVEMENT OR USEABLE SHOULDER SHALL BE 15 5 FEET.
9. POLE SIZES SHALL BE AS SPECIFIED UNDER THE RESPECTIVE ITEM. ALL POLES SHALL BE CUT FROM THE TOP WHEN CUTTING IS REQUIRED.
10. THE CONNECTION BETWEEN SIGNAL HEADS & THE CONDUCTOR CABLE RUNNING TO THE HEADS SHALL BE MADE WITH APPROVED STRANDED WIRE ONLY.
11. EMBEDDED POLES WILL BE SET IN A CONCRETE BASE CONSISTING OF A MINIMUM OF 3 CUBIC YARDS OF APPROVED CONCRETE.
12. PRIOR TO PERFORMING ANY WORK INVOLVING TRAFFIC SIGNALS THE CONTRACTOR WILL NOTIFY IN WRITING, AT LEAST 72 HOURS IN ADVANCE, THE ENGINEER IN CHARGE & THE OFFICE OF THE REGIONAL TRAFFIC ENGINEER.
13. DURING THE COURSE OF CONSTRUCTION IT IS NECESSARY TO VARY SLIGHTLY FROM THE CONSTRUCTION PLANS IT SHALL THEREFORE BECOME THE CONTRACTORS RESPONSIBILITY TO VERIFY THE POLE LENGTH REQUIRED.
14. WHERE UNDISTURBED EARTH CANNOT BE ENCOUNTERED FOR FOUNDATIONS, THE CONCRETE SHALL BE POURED IN ACCORDANCE WITH THE DIRECTIONS & ORDERS OF THE ENGINEER.
15. ALL ATTACHMENTS TO TRAFFIC SIGNAL POLES SHALL BE INSTALLED AFTER ERECTING THE POLE & ATTACHMENT OF SPAN & ADJUSTMENT OF SIGNAL HEAD CLEARANCE.

NOTE: THE PRICE OF THE STEEL REINFORCING BARS AND OF THE ANCHOR BOLTS IS TO BE INCLUDED IN THE AMOUNT BID FOR ITEM 680.08 POLE EXCAVATION AND CONCRETE FOUNDATION.

SPECIAL NOTE:
THIS SHEET INDICATES AN ASSORTMENT OF TYPICAL TRAFFIC SIGNAL DETAILS USED IN TRAFFIC SIGNAL SYSTEMS.

THE ACTUAL DETAILS USED FOR THIS CONTRACT SHALL BE AS REQUIRED UNDER THE RESPECTIVE ITEM.

TYPICAL TRAFFIC SIGNAL MOUNTING

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

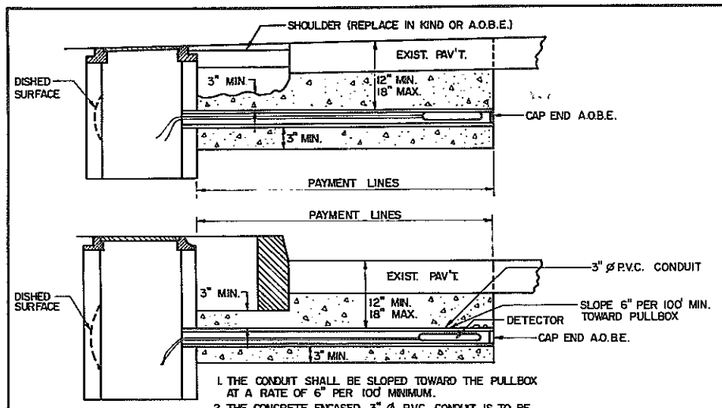
DRAWING No.	SCALE	DATE	REGION
TS-4	NONE	10/78	1

DATE 7/77
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

D96243

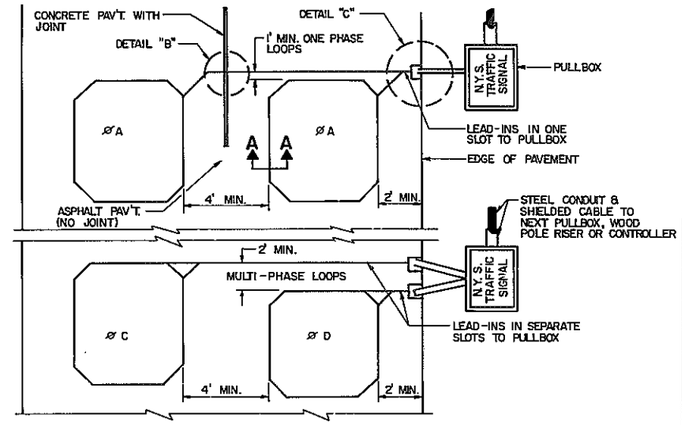
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	150	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY

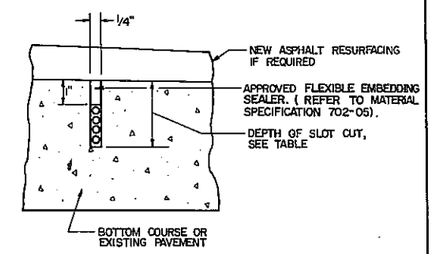


1. THE CONDUIT SHALL BE SLOPED TOWARD THE PULLBOX AT A RATE OF 6" PER 100' MINIMUM.
2. THE CONCRETE ENCASED 3" Ø P.V.C. CONDUIT IS TO BE INSTALLED & PAID FOR UNDER ITEM 01670.2603.
3. WHERE EXIST. PULLBOXES WILL BE USED, THE REAR OF THE BOX IS TO BE DISHED AS INDICATED TO ALLOW INSTALLATION & REMOVAL OF THE PROBE.

MAGNETIC DETECTOR INSTALLATION

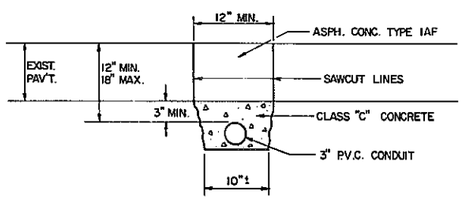


DEPTH OF SLOT CUT	
NO. OF TURNS	DEPTH OF SLOT CUT *
1	1 1/8 INCH
2	1 1/4 INCH
3	1 3/8 INCH
4	1 1/2 INCH
5	1 5/8 INCH
6	1 3/4 INCH
* TOLERANCE IS ± 1/8"	



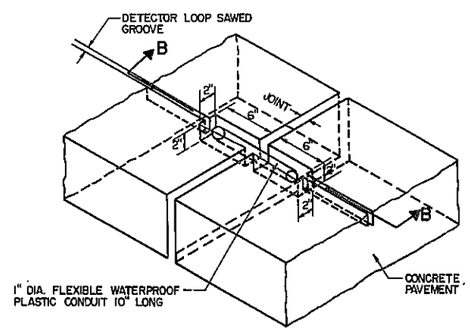
NOTE:
WHERE CONSTRUCTION OF NEW ASPHALT PAVEMENT IS INVOLVED ON A PROJECT, THE INDUCTION LOOPS SHOULD BE INSTALLED IN THE BASE COURSE OF THE NEW PAVEMENT.

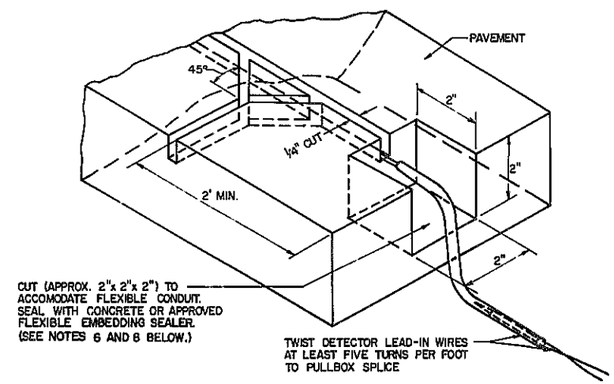
SECTION A-A

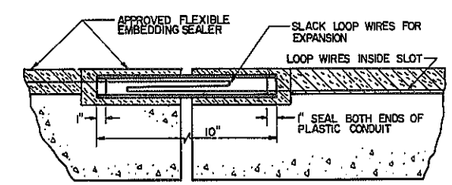


NOTE:
THE CEMENT CONCRETE SHALL CURE 72 HOURS BEFORE TRAFFIC & EQUIPMENT IS ALLOWED OVER IT.

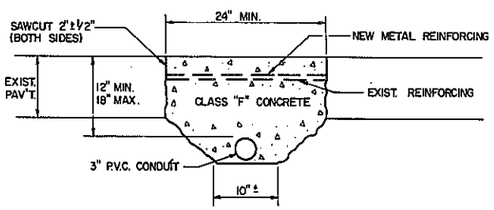
ASPHALT CONCRETE DETAIL







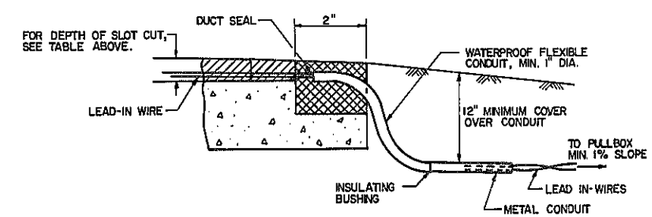
SECTION B-B
DETAIL "B"
CONCRETE PAVEMENT JOINT



NOTES:
1. THE EXIST. CONC. PAV'T. SHALL BE REMOVED IN A MANNER THAT WILL NOT DAMAGE THE EXISTING METAL REINFORCEMENT. THE EXISTING METAL REINFORCEMENT MAY BE CUT IN THE CENTER & BENT BACK TO FACILITATE EXCAVATION. IT SHALL BE BENT BACK TO ORIGINAL POSITION & SPLICED WITH NEW METAL REINFORCEMENT LAPPED 12" ON EACH SIDE OF THE CUT.
2. THE CEMENT CONCRETE SHALL CURE 72 HOURS BEFORE TRAFFIC & EQUIPMENT IS ALLOWED OVER IT.

CEMENT CONCRETE DETAIL

NOTES FOR LOOP WIRE & SHIELDED CABLE:
1. ALL SAWED CHANNELS SHALL BE STRAIGHT & TO THE PRESCRIBED WIDTH, DEPTH & LENGTH DIMENSIONS.
2. CORNER CUTS SHALL BE MADE ON 45° ANGLE & FROM 8" TO 12" ALONG THE INVOLVED SIDES OF THE LOOP.
3. FILTERED COMMPRESSED AIR OF 125 LBS. PER SQUARE INCH SHALL BE USED TO BLOW THE SLOT CLEAR OF FOREIGN MATERIAL & MOISTURE.
4. ALL DETECTOR LEAD-INS FROM THE PULLBOX TO THE SENSOR UNIT SHALL BE CONTINUOUS (NON-SPLICED) RUNS OF SHIELDED LEAD-IN CABLE.
5. THE LOOP WIRE SHALL BE A CONTINUOUS LENGTH OF ITEM 680.11 COMMENCING AT THE CURBSIDE PULLBOX, MAKING THE DESIRED NUMBER OF TURNS AS SHOWN ON THE PLAN & RETURNING TO THE CURBSIDE PULLBOX.
6. THE FLEXIBLE EMBEDDING SEALER USED FOR INSTALLING ELECTRONIC INDUCTIVE LOOP VEHICLE DETECTORS SHALL BE AN ASPHALT CEMENT CONFORMING TO MATERIALS DESIGNATION 702-05, ASPHALT FILLER.
7. ALL WIRING, SPLICING & CONNECTIONS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OR A.O.B.E.
8. WHEN INSTALLING FLEXIBLE EMBEDDING SEALER, IT SHALL BE HEATED SUFFICIENTLY TO RENDER IT A VISCOSITY SUFFICIENT TO ALLOW THE FLOW TO BE SELF-LEVELING AND TO ENABLE TOTAL ENCAPSULATION OF THE LOOP WIRES. THE HEATED MATERIAL SHALL BE CONTINUOUSLY MONITORED TO INSURE THAT THE HEAT RANGE BE HELD BETWEEN 170°F AND 325°F.



DETAIL "C"
ELECTRONIC INDUCTIVE LOOPS
VEHICLE DETECTOR

TRAFFIC SIGNAL DETECTORS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING No.	SCALE	DATE	REGION
TS - 5	NONE	7/79	REGION 1

DATE 7/79
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
CHECKED BY
DESIGNED BY
IN CHARGE OF
HC 47-2 (5/76)

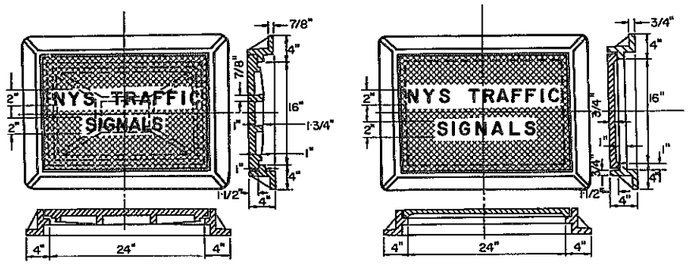
37

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	151	284

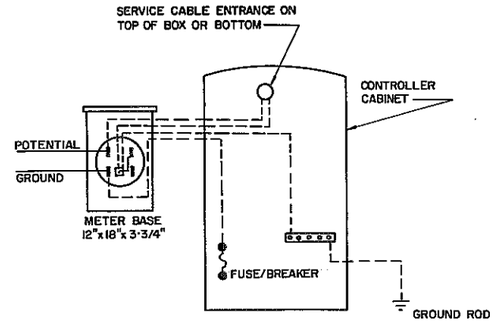
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY – DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

TRAFFIC SIGNAL PULLBOX FRAME AND GRATE DETAILS

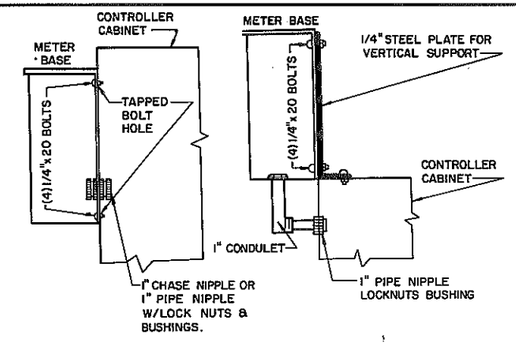


ROADWAY TYPE
WEIGHT OF FRAME 165* #
WEIGHT OF COVER 130* #

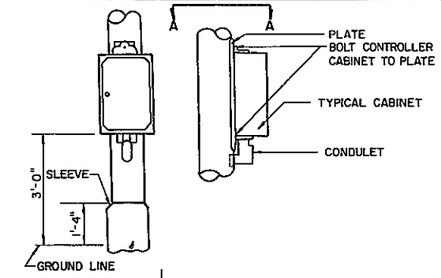
WALKWAY TYPE
WEIGHT OF FRAME 140* #
WEIGHT OF COVER 100* #



METER BASE INSTALLATION & WIRING



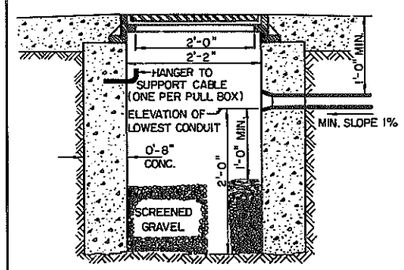
SIDE MOUNT TOP MOUNT



TYPICAL SIGNAL CONTROLLER POWER SUPPLY METER BASE

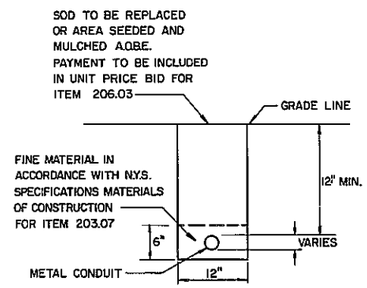
(NOT TO SCALE)

WHEN SHOWN ON THE CONTRACT PLANS, THE CONTRACTOR SHALL ATTACH A UTILITY SUPPLIED METER BASE AS SHOWN ON THE PLANS OR AS SPECIFIED BY THE ENGINEER THE ADDITIONAL LENGTH OF POWER CABLE PROVIDED ABOVE SHALL BE EXTENDED THROUGH THE CONTROLLER CABINET WALL INTO THE METER BASE AND BACK TO THE CONTROLLER CIRUIT BREAKER. ALL METER BASE FITTINGS AS SHOWN ON THE DRAWING SHALL BE WEATHER TIGHT. NO DIRECT PAYMENT SHALL BE MADE FOR THE INSTALLATION OF THE METER BASE BUT THE COST FOR THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE CONTROLLER.



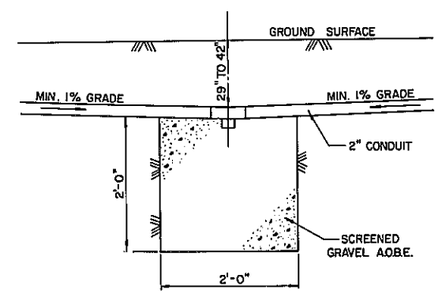
PULLBOX DETAIL

NO SCALE



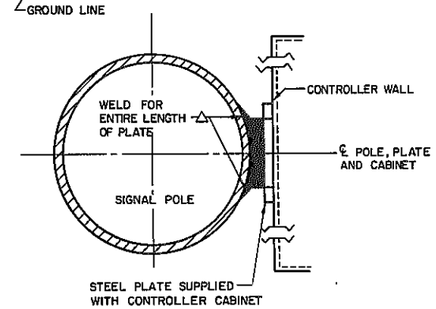
CONDUIT TRENCH

NO SCALE



"T" DRAIN

WHERE NECESSARY TO DRAIN AT A POINT OTHER THAN A PULLBOX OR A.O.B.E.



SECTION A-A

TYPICAL POLE MOUNTED CONTROLLER

NO SCALE

SPECIAL NOTES REGARDING CONTROLLER CABINETS

THIS SHEET INDICATES DIFFERENT CABINET MOUNTING USED IN TRAFFIC SIGNAL SYSTEMS

THE ACTUAL CONTROLLER CABINET MOUNTING USED IN THIS CONTRACT SHALL BE AS SPECIFIED UNDER THE RESPECTIVE ITEM.

NOTES:

TYPICAL INSTALLATION FEATURES INDICATED HEREON SHALL BE INCORPORATED AS BEST AS CAN BE ADAPTED TO FIT THE INDIVIDUAL SIGNAL INSTALLATION.

ALL ATTACHMENTS TO PRIVATELY OWNED POLES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER OR OWNERS.

ANCHOR BOLTS SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

WHERE SIZE OF ONE CONDULET IS TOO SMALL TO PERMIT PASSAGE OF REQUIRED WIRES, TWO CONDULETS SHALL BE USED.

THE TYPE OF CABINET USED SHALL BE AS INDICATED UNDER THE SPECIAL SPECIFICATION FOR THE TRAFFIC SIGNAL CONTROLLER.

PAYMENT FOR CABINETS SHALL BE INCLUDED UNDER THE TRAFFIC SIGNAL CABINET ITEMS.

PULL BOXES LOCATED IN ROADWAY AREAS SHALL BE IN ACCORDANCE WITH THE DETAILS INDICATED. FRAME AND COVER SHALL BE "FLOCKHART TYPE "E" NO. 61208" OR EQUAL, PULL BOXES LOCATED OUTSIDE OF THE ROADWAY AREA OR IN THE SIDEWALK AREA MAY BE PRECAST CONCRETE OF APPROVED DESIGN. FRAME AND COVER SHALL BE "FLOCKHART TYPE "E" NO. 61253" OR EQUAL. ALL COVERS SHALL BE LETTERED WITH "N.Y.S. TRAFFIC SIGNALS". IN TWO INCH (2") LETTERS.

PULL BOXES SHALL BE LOCATED BACK OF THE EDGE OF THE SHOULDER OR CURB LINE IF POSSIBLE. IF PLACED IN SHOULDER OR SIDEWALK AREA THE COVER SHALL BE FLUSH WITH THE SHOULDER OR SIDEWALK SURFACE. ALL PULL BOXES SHALL BE CONSTRUCTED WITH THEIR LONGEST SIDE PARALLEL WITH THE LONGEST CONDUIT RUN.* IF OPEN GRAVEL IS FOUND ONE FOOT (1') BELOW THE ELEVATION OF THE LOWEST CONDUIT ENTERING THE PULL BOX, THE PULL BOX MAY BE RAISED ONE FOOT (1') AND THE SCREENED GRAVEL OMITTED.

CONDUITS SHALL BE LAID TRUE TO GRADE AND DRAINED TO THE PULL BOXES. CONDUIT ENDS SHALL BE FITTED WITH APPROVED CONDUIT BUSHING OR PROPERLY REAMED. ALL CONDUIT RUNS SHALL BE RODDED AND ALL OBSTRUCTIONS REMOVED. ONE (1) NO. 6 STEEL GALVANIZED DRAGWIRE SHALL BE INSTALLED IN ALL CONDUIT RUNS. ENDS OF CONDUITS NOT USED SHALL BE CLOSED WITH APPROVED CAPS OR PLUGS.

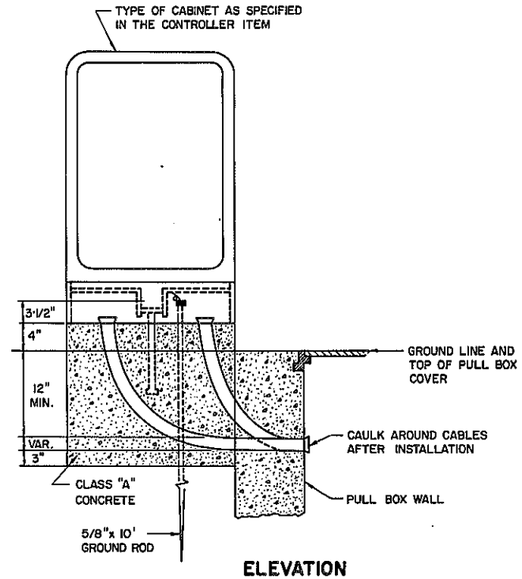
WHERE EXISTING PAVEMENT OR SIDEWALK IS DISTURBED FOR THE INSTALLING OF CONDUIT THE EXCAVATION SHALL BE BACKFILLED PROPERLY WITH MATERIAL MEETING THE REQUIREMENTS OF ITEM 203.07 AND THE PAVEMENT RESTORED WITH CONCRETE OR ASPHALT CONCRETE (ACCORDING TO THE EXISTING PAVEMENT TO THE SATISFACTION OF THE ENGINEER.) PAYMENT SHALL BE INCLUDED IN THE PRICE BID FOR THE RESPECTIVE CONDUIT ITEMS.

EXCAVATION IN GRASS AREAS:

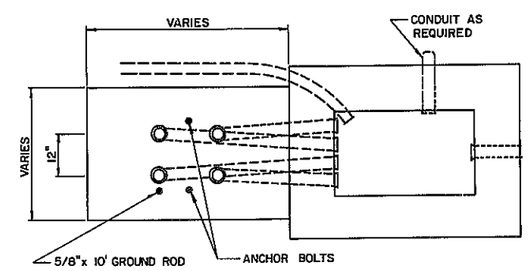
WHEN EXCAVATING IN GRASSED AREAS, THE CONTRACTOR WILL BE REQUIRED TO REMOVE AND REPLACE EXISTING SOD WHERE ORDERED BY THE ENGINEER. OTHERWISE RESEEDING WILL BE REQUIRED. THE COST OF SUCH RESODDING AND RESEEDING WILL BE INCLUDED IN THE PRICES BID FOR OTHER CONTRACT ITEMS.

ALL SCREENED GRAVEL SHALL MEET THE N.Y.S.D.O.T. SPECIFICATIONS - "MATERIAL DESIGNATION 703-0203."

WHERE MAGNETIC DETECTORS ARE USED, THE PULLBOXES SHALL BE CONSTRUCTED WITH THIER LONGEST SIDE PARALLEL TO THE DETECTOR PROBE.



ELEVATION



PLAN

GROUND MOUNTED CONTROLLER NOTES:

1. LOCATE GROUND ROD AND UPPER CONDUIT ENDS SO THERE IS WORKING ACCESS AREA FOR CABLE, ETC.
2. PULLBOX BASE DIMENSIONS VARY ACCORDING TO APPROVED SUPPLIER.
3. THE PULLBOX MAY BE LOCATED AT EITHER END OR SIDE OF THE CONCRETE BASE FOR THE BEST LOCATION ADVANTAGE.
4. THE VERTICAL SIDES OF THE CONTROLLER BASE SHALL BE FLUSH WITH THE SIDES OF THE CABINET.

TYPICAL GROUND MOUNTED CONTROLLER DETAILS

NO SCALE

PULL BOX DETAILS & TYPICAL CONTROLLER MOUNTINGS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

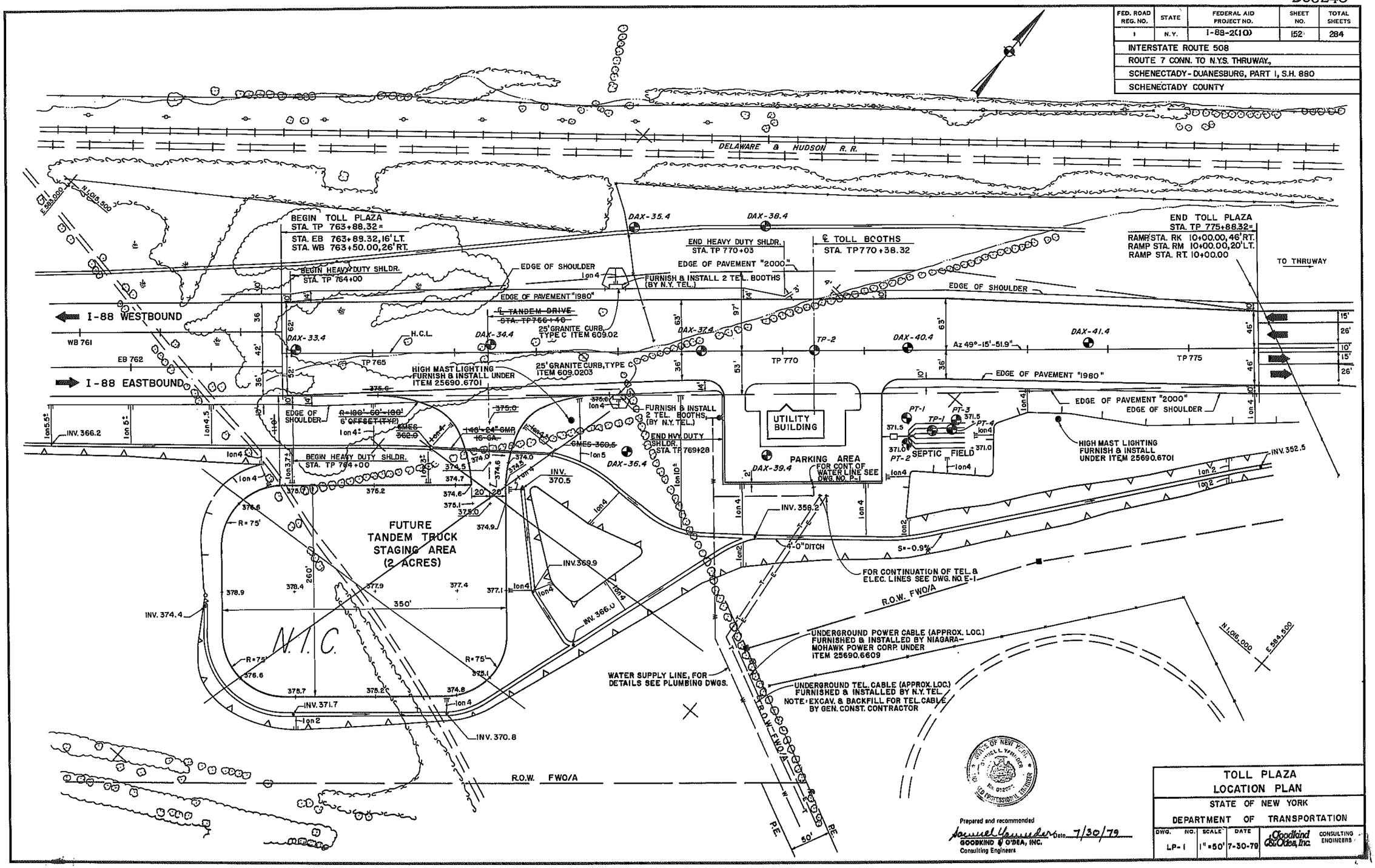
DRAWING No.	SCALE	DATE	
TS-.6	NONE	7/79	REGION I

DATE 7/79 CHECKED BY CHECKED BY DRAFTED BY CHECKED BY ESTIMATED BY DESIGNED BY CHECKED BY IN CHARGE OF HC 47-2 (5/76)

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	152	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY,
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



Prepared and recommended
Samuel Goodkind Date 7/30/79
GOODKIND & O'DEA, INC.
Consulting Engineers

STATE OF NEW YORK
SAMUEL GOODKIND
No. 012077
LICENSED PROFESSIONAL ENGINEER

TOLL PLAZA LOCATION PLAN

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

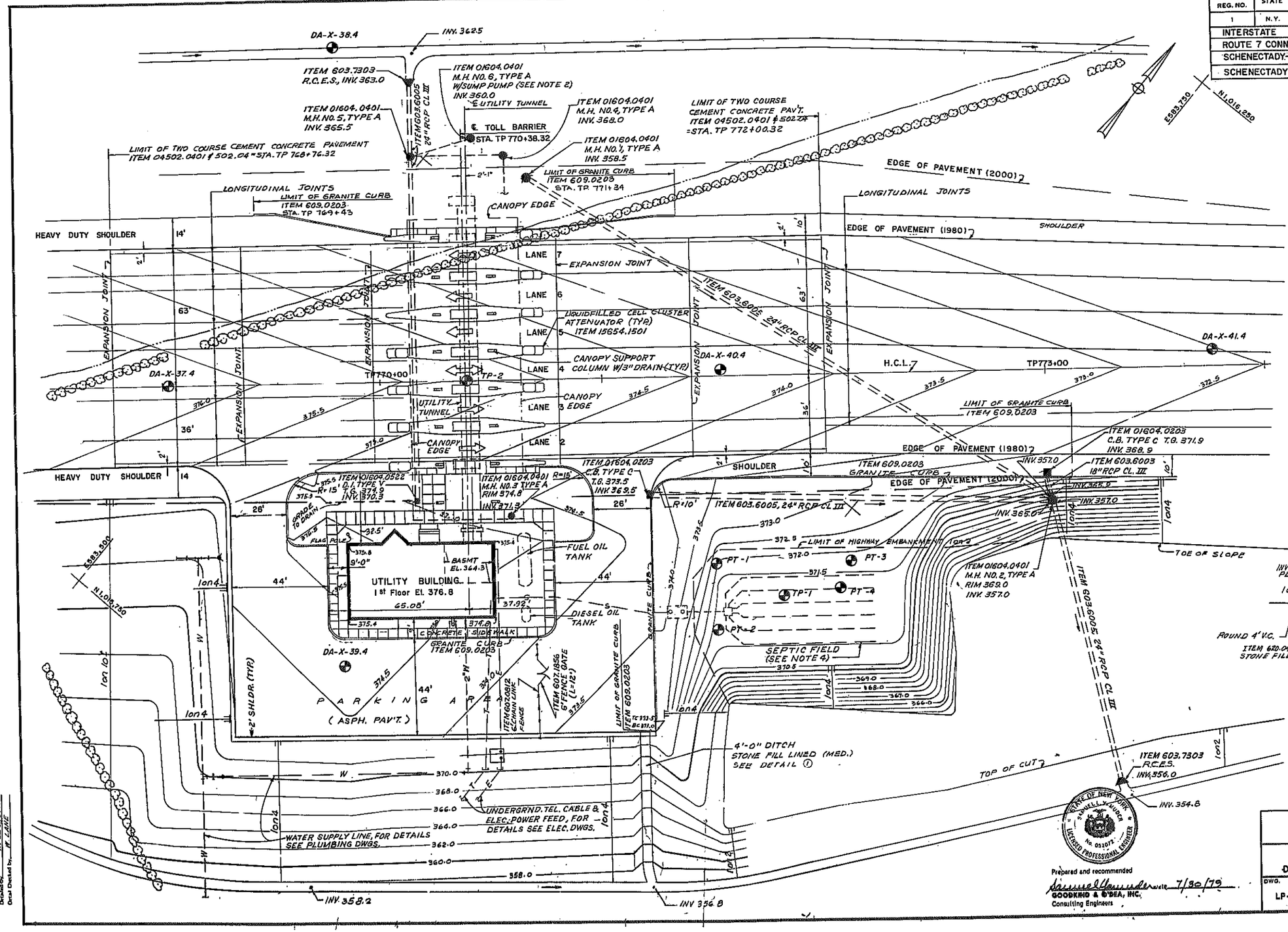
DWG. NO.	SCALE	DATE	
LP-1	1" = 50'	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

In Charge of R. HREUTER
Designed by N. SPAVENTA
Design Checked by R. HREUTER
Detailed by N. DA COSTA
Detail Checked by W. LANE

D96243

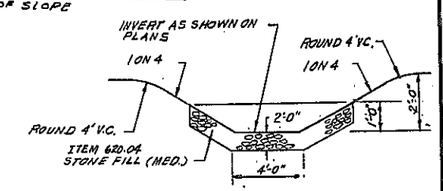
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	153 R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



NOTES

1. FURNISH & INSTALL ALL MANHOLES, DROP INLETS & CATCH BASINS UNDER THE APPROPIATE HIGHWAY ITEMS AS NOTED.
2. FURNISH & INSTALL SUMP PUMP IN M.H. NO. 6 UNDER ITEM 25690.6605 PLUMBING WORK. FOR DETAILS, SEE DWG. NO. P-1.
3. FURNISH & INSTALL ALL TREADLE, TRENCH, CANOPY & FLOOR DRAINS. UNDER ITEM 25690.6605, PLUMBING WORK. FOR DETAILS SEE DWG. NO. P-5.
4. FURNISH & INSTALL SEPTIC FIELD UNDER ITEM 25690.6605 FOR DETAILS SEE DWG. NO. P-3.



STONE FILL LINED DITCH (NOT TO SCALE)
DETAIL 1

NOTE: PAVEMENT JOINT DETAILS REVISED AS REQUESTED BY N.Y.S.T.A.

REVISIONS

STATE OF NEW YORK
SAMUEL L. VANDER
No. 051077
LICENSED PROFESSIONAL ENGINEER

Prepared and recommended
Samuel L. Vander date 7/30/79
GOODKIND & O'DEA, INC.
Consulting Engineers

TOLL PLAZA SITE PLAN

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

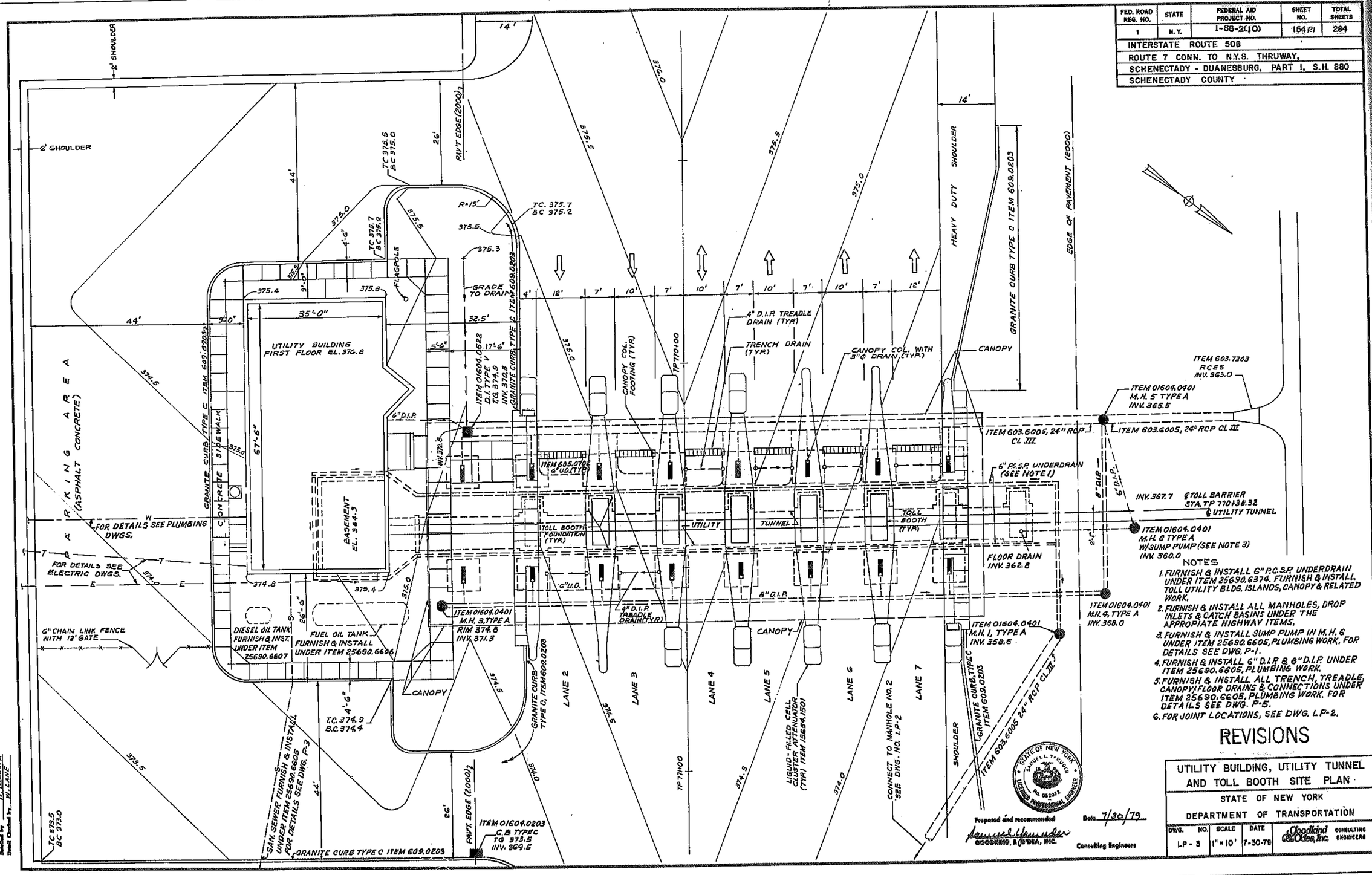
DWG. NO.	SCALE	DATE	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS
LP-2	1" = 20'	7-30-79	

In Charge of R. KREUTZER
Designed by M. SCANDURA
Design Checked by R. KREUTZER
Detailed by N. DA COSTA
Detail Checked by W. LANE

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	154(2)	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY,
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



NOTES

1. FURNISH & INSTALL 6" P.C.S.P. UNDERDRAIN UNDER ITEM 25690.6374. FURNISH & INSTALL TOLL UTILITY BLDG. ISLANDS, CANOPY & RELATED WORK.
2. FURNISH & INSTALL ALL MANHOLES, DROP INLETS & CATCH BASINS UNDER THE APPROPIATE HIGHWAY ITEMS.
3. FURNISH & INSTALL SUMP PUMP IN M.H. 6 UNDER ITEM 25690.6605, PLUMBING WORK. FOR DETAILS SEE DWG. P-1.
4. FURNISH & INSTALL 6" D.I.P. & 8" D.I.P. UNDER ITEM 25690.6605, PLUMBING WORK.
5. FURNISH & INSTALL ALL TRENCH, TREADLE, CANOPY, FLOOR DRAINS & CONNECTIONS UNDER ITEM 25690.6605, PLUMBING WORK. FOR DETAILS SEE DWG. P-5.
6. FOR JOINT LOCATIONS, SEE DWG. LP-2.

REVISIONS

Prepared and recommended
Samuel L. Yancuder
GOODKIND & O'DEA, INC.
Consulting Engineers

Date 7/30/79

UTILITY BUILDING, UTILITY TUNNEL AND TOLL BOOTH SITE PLAN

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

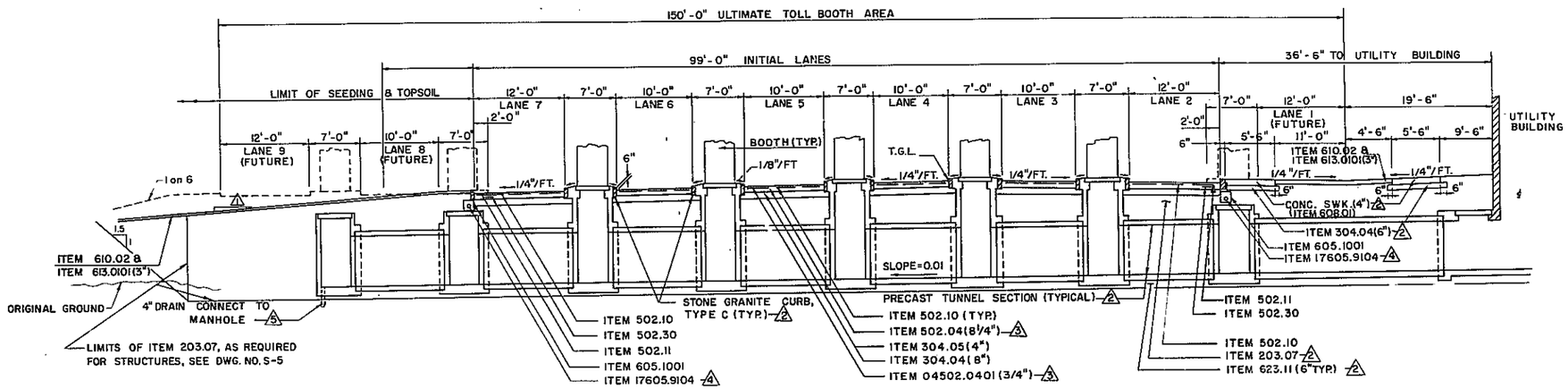
DWG. NO.	SCALE	DATE	
LP-3	1" = 10'	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

In Charge of R. NIEUTZER
Designed by N. SPAVENTA
Checked by R. NIEUTZER
Detailed by H. DeCOSTA
Detail Checked by W. LANE

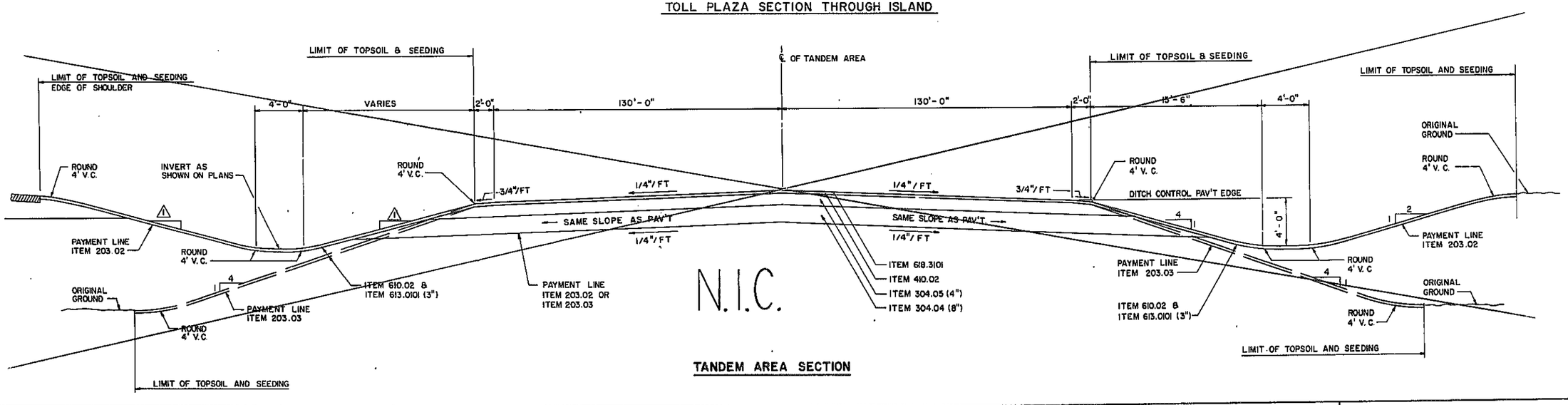
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO	TOTAL SHEETS
1	N.Y.	I-88-2(10)	155	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY-DUANESBURG, PART I, S.H.880
SCHENECTADY COUNTY



TOLL PLAZA SECTION THROUGH ISLAND



TANDEM AREA SECTION

ITEM NO.	DESCRIPTION
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL
203.03	EMBANKMENT IN PLACE
304.04	SUBBASE COURSE — TYPE 3
304.05	SUBBASE COURSE — TYPE 4
410.02	BITUMINOUS SURFACE TREATMENT (DOUBLE COURSE FOR PAVEMENT)
04502.0401	EMERY CONCRETE SURFACE COURSE
502.04	CEMENT CONCRETE PAVEMENT REINFORCED CLASS C
502.10	METAL REINFORCEMENT FOR CONCRETE PAVEMENT (10' WIDE OR GREATER)
502.11	METAL REINFORCEMENT FOR CONCRETE PAVEMENT (LESS THAN 10' WIDE)
502.30	LONGITUDINAL JOINT TIES

ITEM NO.	DESCRIPTION
605.1001	UNDERDRAIN FILTER TYPE II
17605.9104	CORRUGATED POLYETHYLENE UNDERDRAIN PIPE (4" DIAM.)
610.02	SEEDING
613.0101	TOPSOIL
618.3101	ASPHALT EMULSION (RS-2)
203.07	SELECT GRANULAR FILL
623.11	CRUSHED GRAVEL, SEE DRAWING NO. S-5

NOTES

1. SLOPE VARIES AS NOTED ON PLANS
2. ALL WORK FOR THIS ITEM SHALL BE PAID FOR UNDER ITEM 25690.6374
3. LIMITS OF TWO COURSE CEMENT CONCRETE PAVEMENT ITEMS 04502.0401 & 502.04 FROM STA. TP 768+76.32 TO TP 772+00.32
4. OUTLET UNDERDRAIN AT INTERVALS OF 600 FT.
5. SEE PLUMBING DRAWING P-1

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

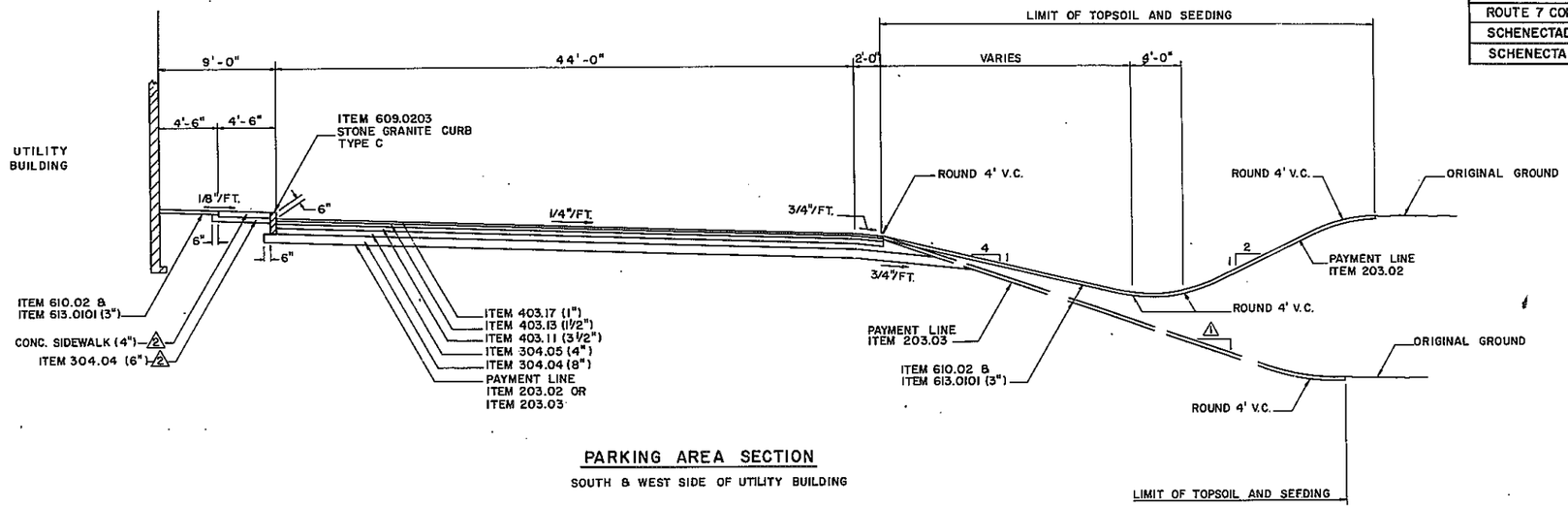
DWG. NO.	SCALE	DATE	COMPANY
1-1	NONE	7-30-79	Goodkind & O'Dea, Inc.

In Charge of R. HREUTER
Designed by N. SPAVENTA
Design Checked by R. HREUTER
Detailed by
Detail Checked by

D96243

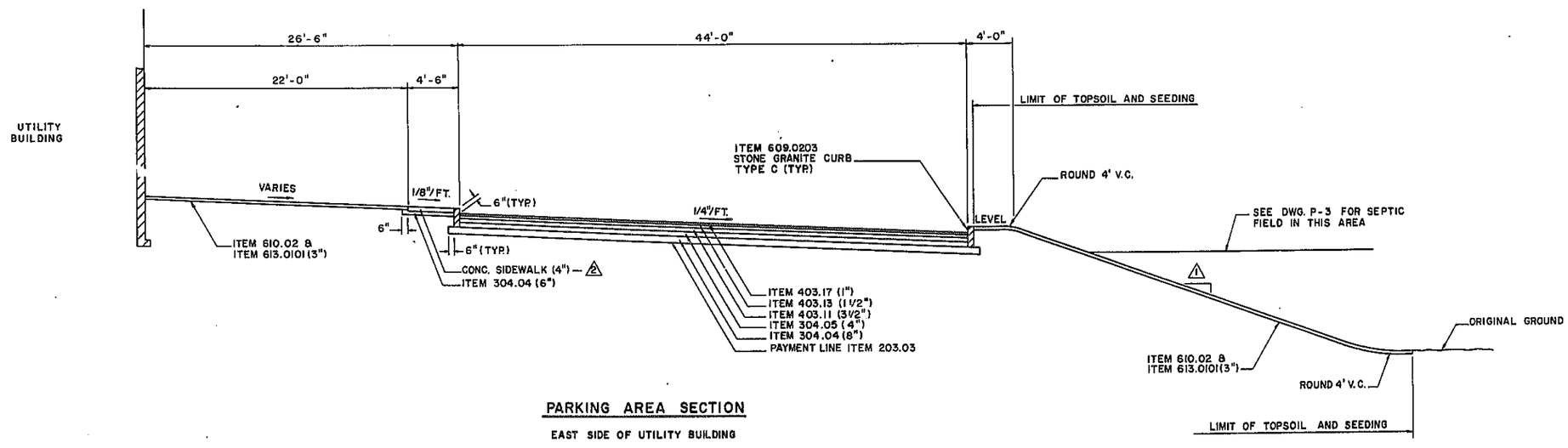
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	156	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



PARKING AREA SECTION

SOUTH & WEST SIDE OF UTILITY BUILDING



PARKING AREA SECTION

EAST SIDE OF UTILITY BUILDING

ITEM NO.	DESCRIPTION
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL
203.03	EMBANKMENT IN PLACE
304.04	SUBBASE COURSE - TYPE 3
304.05	SUBBASE COURSE - TYPE 4
403.11	ASPHALT CONCRETE - TYPE 1 BASE COURSE
403.13	ASPHALT CONCRETE - TYPE 3 BINDER COURSE
403.17	ASPHALT CONCRETE - TYPE 6F TOP COURSE (HIGH FRICTION)
610.02	SEEDING
613.0101	TOPSOIL

ITEM NO.	DESCRIPTION

NOTES

1. SLOPE VARIES AS NOTED ON PLANS
2. ALL WORK FOR THIS ITEM SHALL BE PAID FOR UNDER ITEM 25690.6374, TOLL UTILITY BUILDING, ISLANDS, CANOPY AND RELATED WORK.

TYPICAL SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

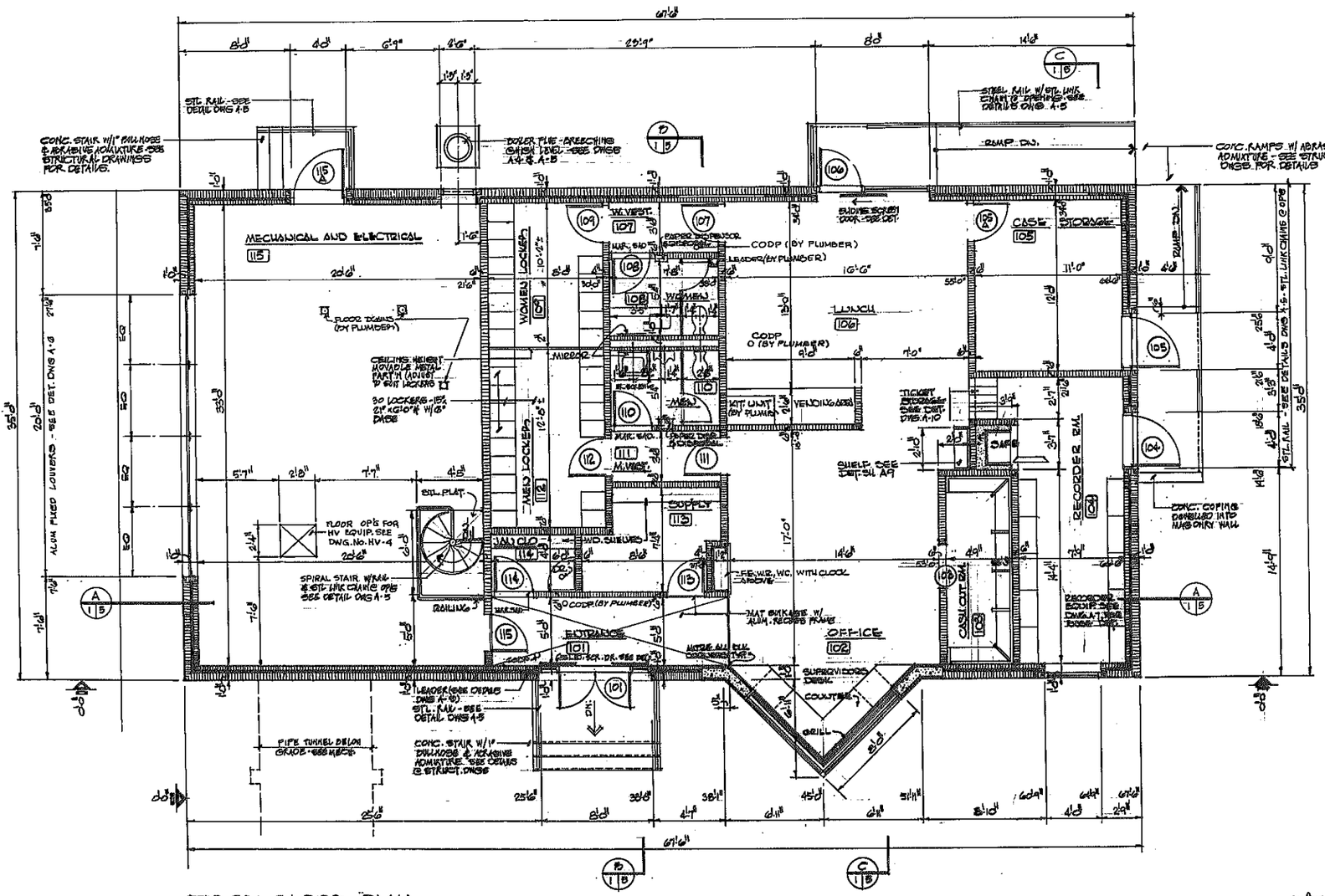
DWG. NO.	SCALE	DATE	
T-2	NONE	7-30-79	Goodkind & O'Dea, Inc.

In Charge of R. KIRCHER
Designed by H. SANCHEZ
Design Checked by R. KREUTZER
Detailed by W. DA COSTA
Detail Checked by W. LAKE

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	157	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



FIRST FLOOR PLAN
SCALE: 1/4"=1'-0" (FIRST FLOOR ELEV. 376.8 DATUM 0'-0")

ARCHITECTURAL SYMBOLS & ABBREVIATIONS

SECTION LETTER OR DETAIL NO.
ARCHITECTURAL SHEET WHERE SECTION IS DRAWN
FIRST ARCHITECTURAL SHEET WHERE SECTION IS CUT.

CONCRETE, CERAMIC TILE, WOOD (ROUGH), METAL SECTION, INSULATION, GRAVEL
CONCRETE BLOCK, VINYL TILE, WOOD (FINISH), METAL (ELEVATION), PLYWOOD, PLYWD W/PLAST
EARTH

AC.	ACOUSTIC	GALV.	GALVANIZED	PERIM.	PERIMETER
A.F.F.	ABOVE FINISHED FLOOR	GL.	GLASS	PTD.	PAINTED
ALUM.	ALUMINUM			PVC	POLYVINYL CHLORIDE
BIT.	BITUMINOUS	H.	HIGH	PWS	PLASTIC WALL SURFACING
BLK., BL	BLOCK	H.M.	HOLLOW METAL	R	RISER
BLK'G	BLOCKING	H.P.	HIGH POINT	RAD.	RADIUS
		HORIZ.	HORIZONTAL	RD.	ROOF DRAIN
CER.	CERAMIC	JT	JOINT	REINF	REINFORCING
CLO.	CLOSET			REQ'D	REQUIRED
CLG.	CEILING	KIT.	KITCHEN	RETARD.	RETARDANT
CONC.	CONCRETE			RM.	ROOM
CONN.	CONNECTION	LAM.	LAMINATE	S.D.	SOAP DISPENSER
CONT.	CONTINUOUS	LDR.	LEADER	SECT.	SECTION
CR.	COURSE	L.P.	LOW POINT	S.T.D.	SANITARY TAMPON DISPENSER
				SS	STAINLESS STEEL
DET.	DETAIL	M.	MEN	STL	STEEL
DIV.	DIVIDER	MAR. SAD.	MARBLE SADDLE	STRUCT.	STRUCTURAL
DN.	DOWN	MAT.	MATERIAL	SURF.	SURFACE
DR.	DRAIN	MAX.	MAXIMUM		
DWG.	DRAWING	MECH.	MECHANICAL	TDW.	TOP OF WALL
		MET.	METAL	T.P.H.	TOILET PAPER HOLDER
EA.	EACH	MIN.	MINIMUM	TYP.	TYPICAL
EL., ELEV.	ELEVATION	M.O.	MASONRY OPENING		
ELECT.	ELECTRIC	MTD.	MOUNTED	V.A.T.	VINYL ASBESTOS TILE
EQ.	EQUAL			VENT.	VENTILATION
EQUIP.	EQUIPMENT	N.I.C.	NOT IN CONTRACT	VIN.	VINYL
EXP.	EXPANSION	No	NUMBER		
				W.	WOMEN
F.E.	FIRE EXTINGUISHER	O.C.	ON CENTERS	W/	WITH
FIN.	FINISHED	OPG.	OPENING	WD.	WOOD
FL.	FLOOR	OWJ.	OPEN WEB JOIST	W.R.	WASTE RECEPTICAL
FLG'HG	FLASHING				
		PAN.	PANEL		
		PART'N	PARTITION		
GA.	GAUGE				

NOTES!

1. FOR ADDITIONAL INFORMATION ON INTERIOR WALL OPGS ABOVE HUNG CEILING SEE MECH. DWGS.
2. CONC. PADS @ MECH. & ELECT. ROOMS ARE TO BE BUILT ONLY FROM APPROVED SHOP DRAWINGS, CERTIFIED BY MANUFACTURER.
3. FOR ADDITIONAL INFORMATION ON BLKD OPGS IN MECH. & ELECT. ROOMS, SEE STRUCTURAL DRAWINGS
4. ALL BLOCK IN EXTERIOR WALLS TO BE SOLID BLOCK UNLESS OTHERWISE NOTED.
5. FOR ADDITIONAL INFORMATION ON SIDEWALKS, DRAINAGE & CURB DETAILS, SEE SITE DWGS.
6. ALL INTERIOR BLOCK WALLS TO EXTEND UP TO UNDERSIDE OF ROOF DECK UNLESS OTHERWISE NOTED.

In Charge of B.K.
Designed by A.P.
Design Checked by N.S.
Detailed by W.L.
Detail Checked by N.O.

Prepared and recommended
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7/30/79

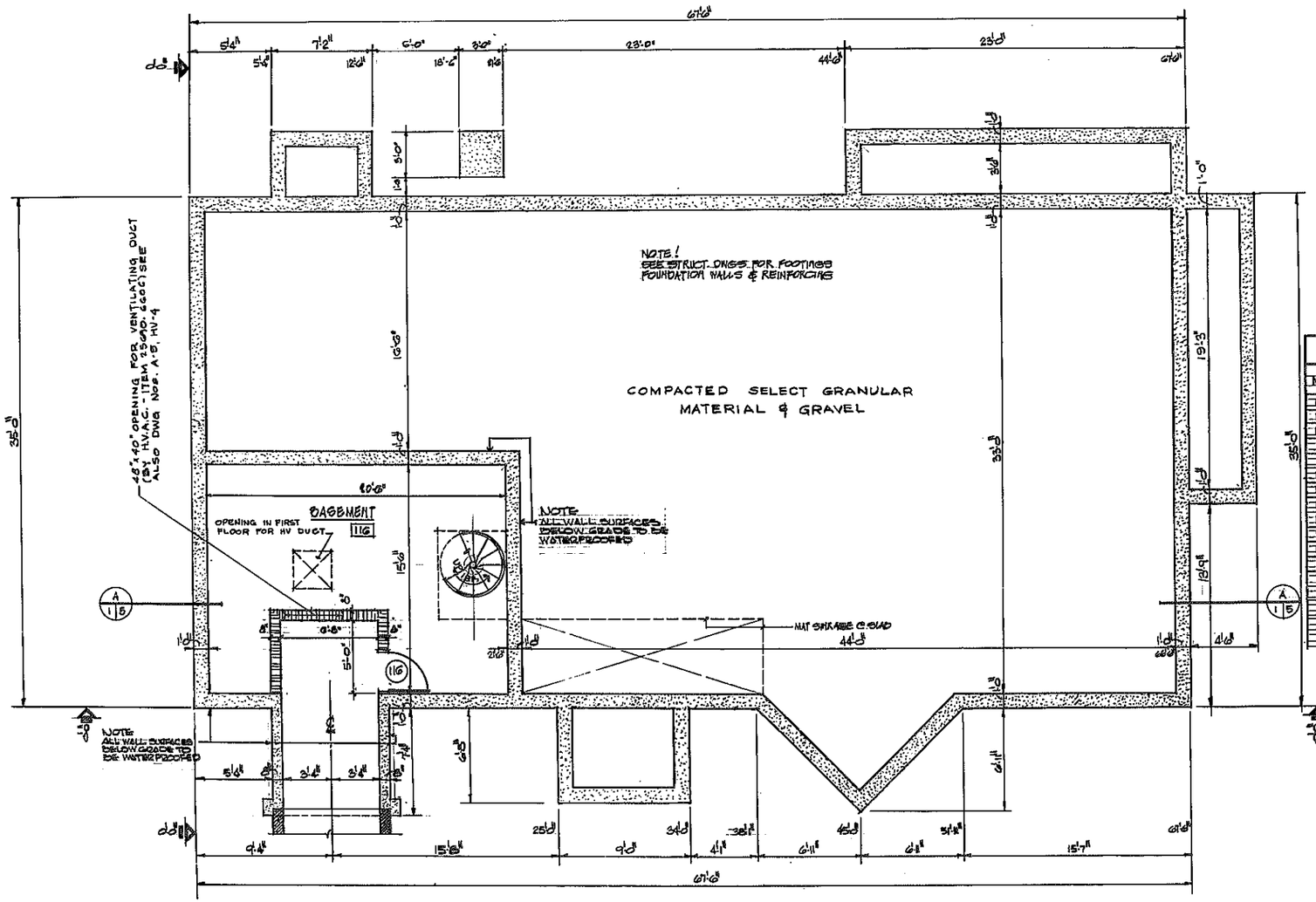
UTILITY BUILDING
FIRST FLOOR PLAN
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DWG. NO.	SCALE	DATE	CONSULTING ENGINEERS
A-1	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc.

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	158	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



BASEMENT & FOUNDATION PLAN
SCALE: 1/4"=1'-0" (BASEMENT FLOOR EL. 364.5)

FINISH SCHEDULE

NO.	ROOM or SPACE TITLE	FLOOR	BASE	WALLS	CEILING	REMARKS
101	ENTRANCE	MAT	VINYL	CONC. BLK.	AC. TILE	FLOOR SLAB RECESSED 7/8" FOR MAT
102	OFFICE	VAT	VINYL	CONC. BLK.	AC. TILE	
103	CASH OUT RM.	VAT	VINYL	CONC. BLK.	AC. TILE	
104	RECORDER'S RM.	VAT	VINYL	CONC. BLK.	AC. TILE	
105	CASE STORAGE	VAT	VINYL	CONC. BLK.	AC. TILE	
106	LUNCH	VAT	VINYL	CONC. BLK.	AC. TILE	
107	WOMEN'S VESTIBULE	VAT	VINYL	CONC. BLK.	AC. TILE	
108	WOMEN'S TOILET	CER. TILE	CER. TILE	CER. TILE	AC. TILE	MOISTURE RESISTANT AC. TILE
109	WOMEN'S LOCKER RM.	VAT	VINYL	CONC. BLK.	AC. TILE	
110	MEN'S TOILET	CER. TILE	CER. TILE	CER. TILE	AC. TILE	MOISTURE RESISTANT AC. TILE
111	MEN'S VESTIBULE	VAT	VINYL	CONC. BLK.	AC. TILE	
112	MEN'S LOCKER	VAT	VINYL	CONC. BLK.	AC. TILE	
113	SUPPLY	VAT	VINYL	CONC. BLK.	AC. TILE	
114	JANITOR'S CLOSET	CER. TILE	CER. TILE	CER. TILE	AC. TILE	MOISTURE RESISTANT AC. TILE
115	MECHANICAL & ELECTRICAL RM.	CONC.	CONC. BLK.	CONC. BLK.	EXP. STL.	CONC. SURFACES TREAT W/ DUST RETARD
116	BASEMENT	CONC.	CONC.	CONC.	CONC.	CONC. SURFACES TREAT W/ DUST RETARD

*ALL WALL SURFACES TO RECEIVE PLASTIC WALL SURFACING

Prepared and Recommended
Goodkind & O'Dea, Inc.
Consulting Engineers
Date 7/30/79

UTILITY BUILDING
BASEMENT & FOUNDATION PLAN

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

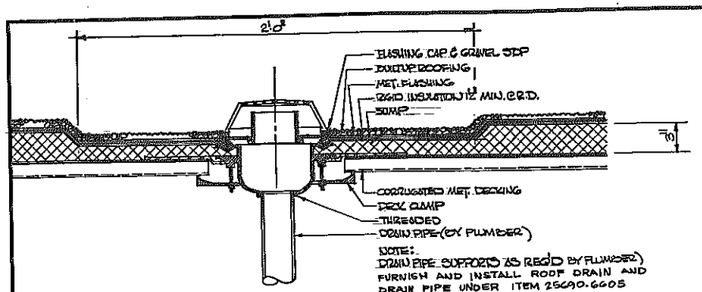
DWG. NO.	SCALE	DATE	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS
A-2	AS SHOWN	7-30-79	

In Charge of R.K.
Designed by A.P.
Design Checked by N.S.
Detailed by N.J.
Detail Checked by N.D.

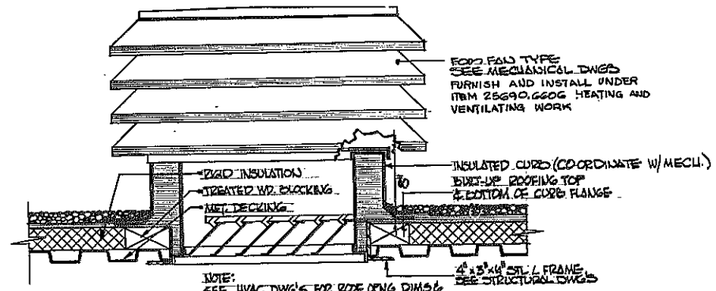
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	15921	284

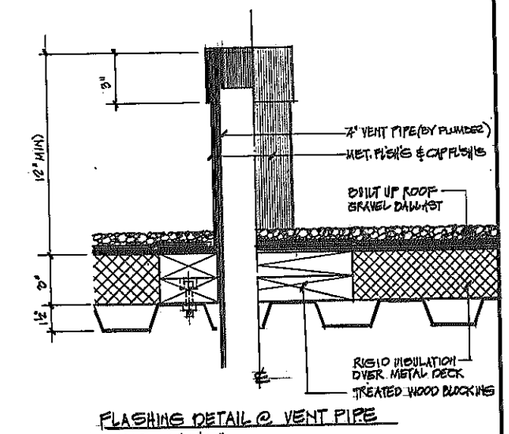
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



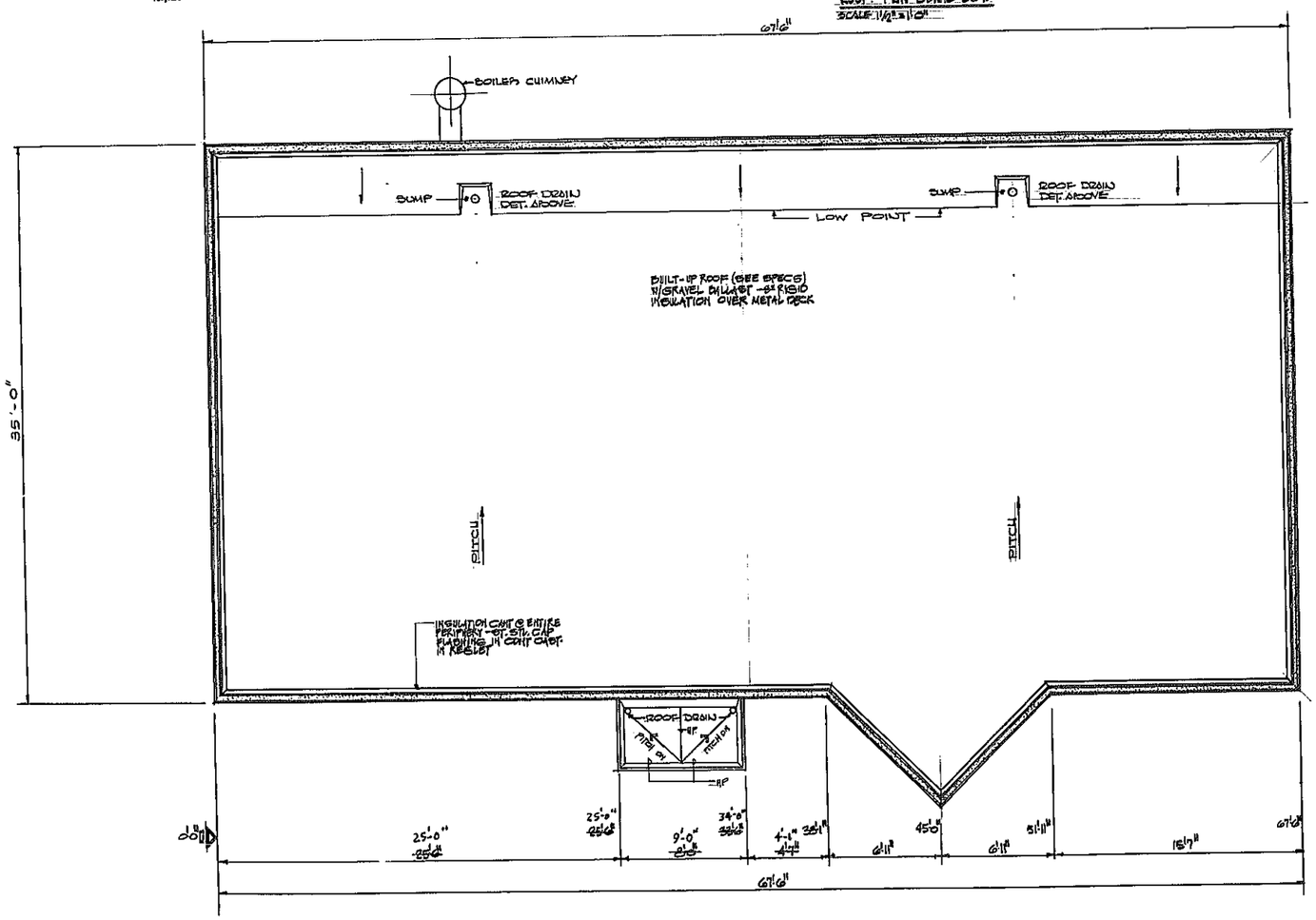
TYPICAL ROOF DRAIN DETAIL
N.T.S.



ROOF FAN CURB DET.
SCALE: 1½" = 1'-0"



FLASHING DETAIL @ VENT PIPE
SCALE = 3" = 1'-0"



ROOF PLAN
SCALE 1/8" = 1'-0"

REVISIONS

UTILITY BUILDING
ROOF PLAN & DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DWG. NO.	SCALE	DATE	
A-3	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

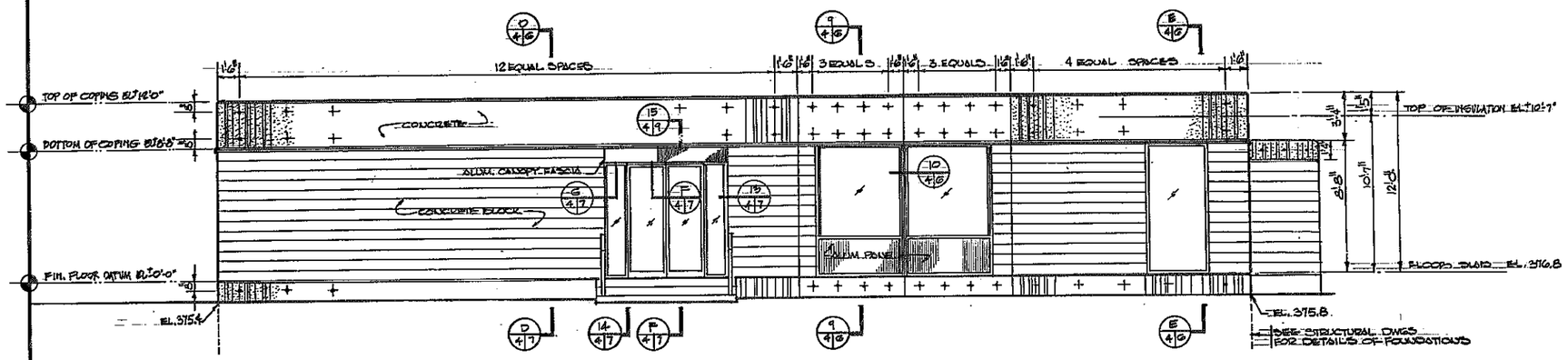
Proposed and Recommended
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7/30/79

In Charge of R.K.
Designed by A.P.
Detailed Checked by N.S.
Detailed by W.L.
Detail Checked by N.O.

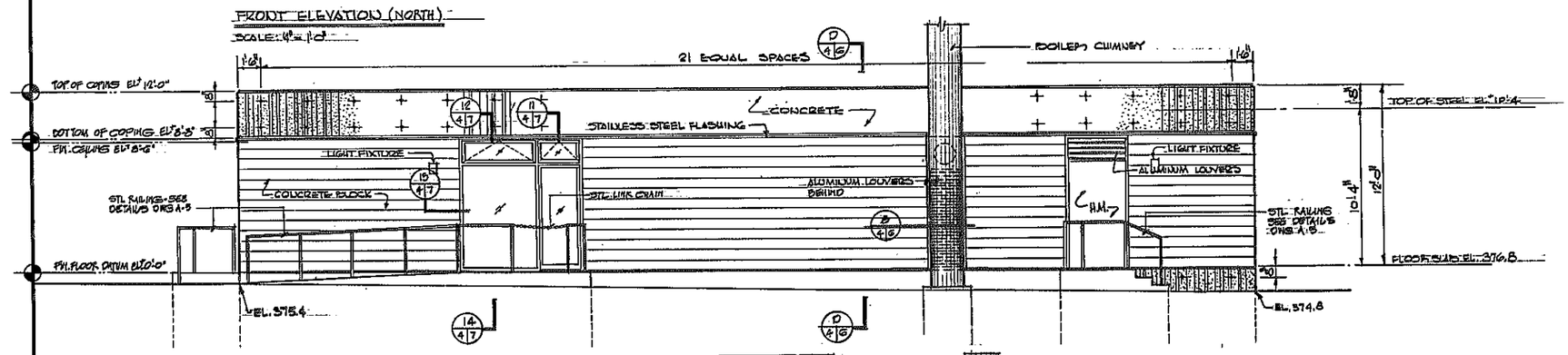
D96243

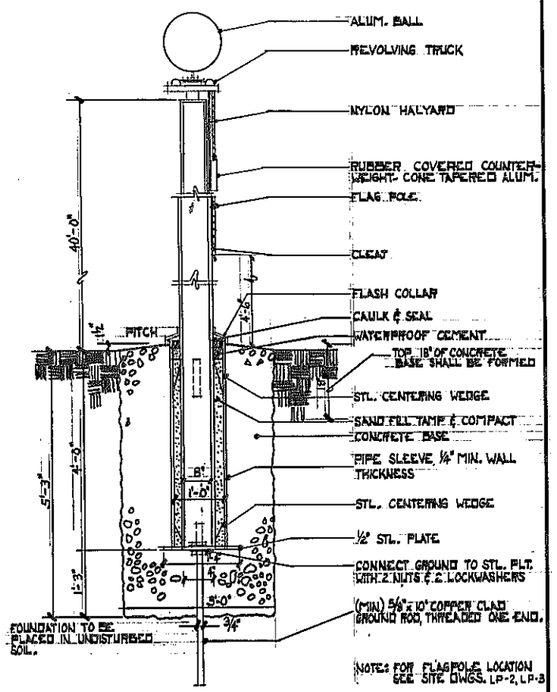
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	160	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY--DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



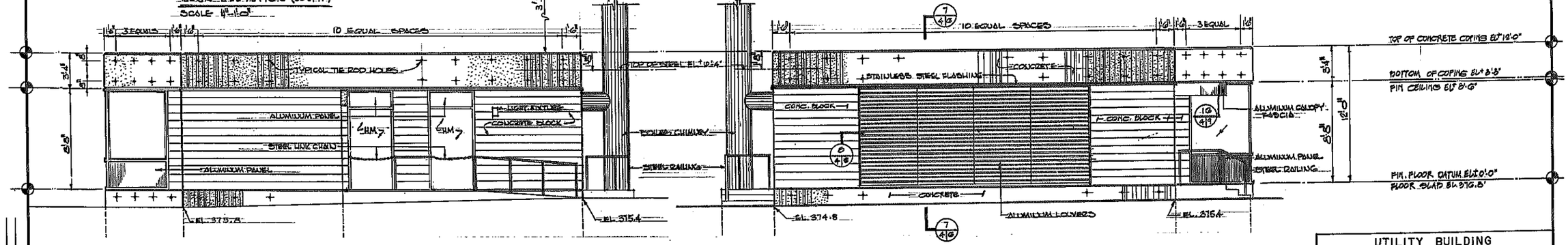
FRONT ELEVATION (NORTH)
SCALE: 1/4" = 1'-0"





FLAGPOLE DETAIL
SCALE: 3/4" = 1'-0"

REAR ELEVATION (SOUTH)
SCALE 1/4" = 1'-0"



SIDE ELEVATION (WEST)
SCALE: 1/4" = 1'-0"

SIDE ELEVATION (EAST)
SCALE: 1/4" = 1'-0"

Prepared and recommended
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7/30/79

UTILITY BUILDING
ELEVATIONS & FLAGPOLE DETAIL

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

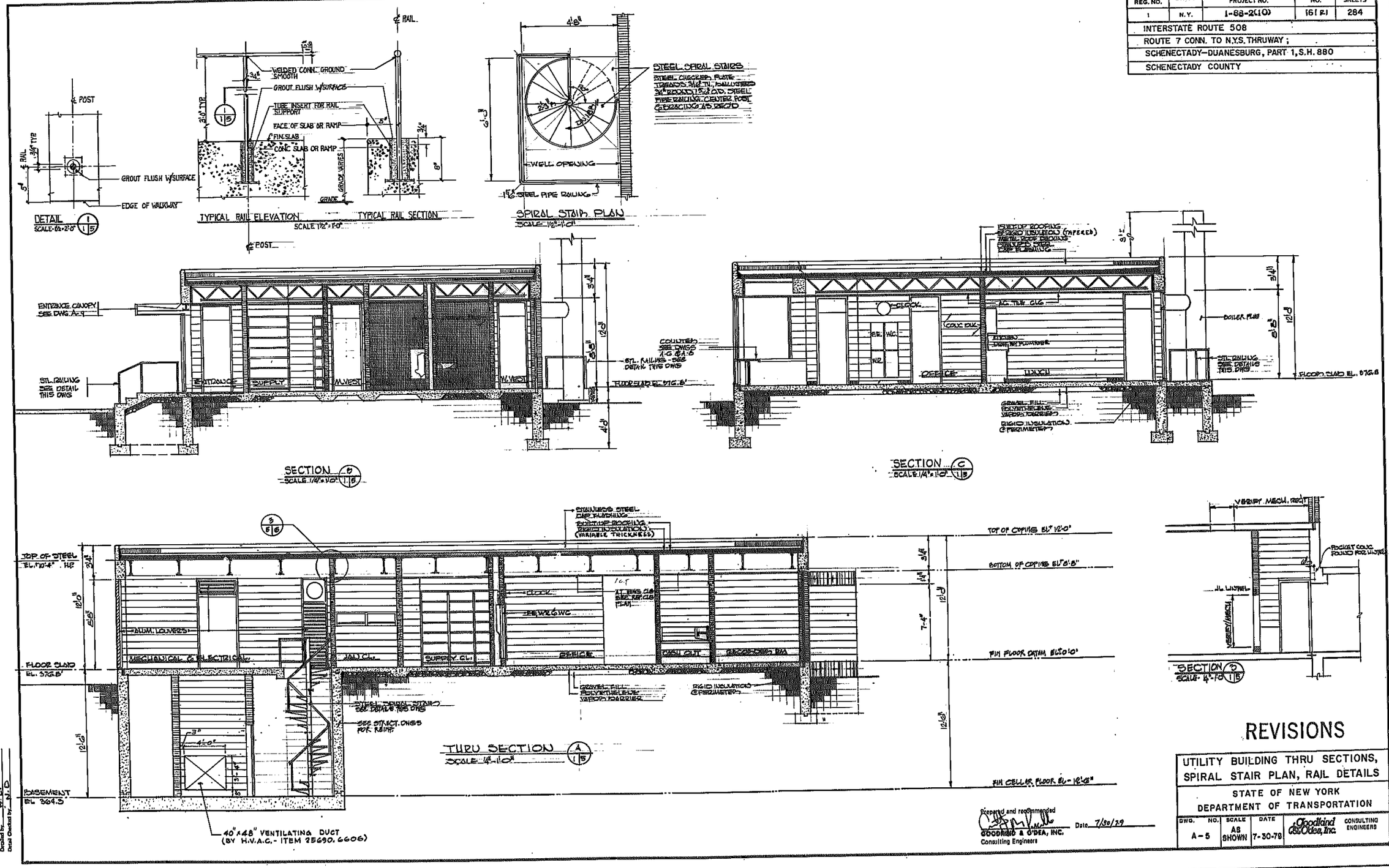
DWG. NO.	SCALE	DATE	
A-4	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

In Charge of R.K.
Designed by A.P.
Design Checked by N.S.
Detailed by W.L.
Detail Checked by N.D.

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	161 A1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



Accepted and recommended
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7/30/79

REVISIONS

UTILITY BUILDING THRU SECTIONS, SPIRAL STAIR PLAN, RAIL DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DWG. NO.	SCALE	DATE	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS
A-5	AS SHOWN	7-30-79	

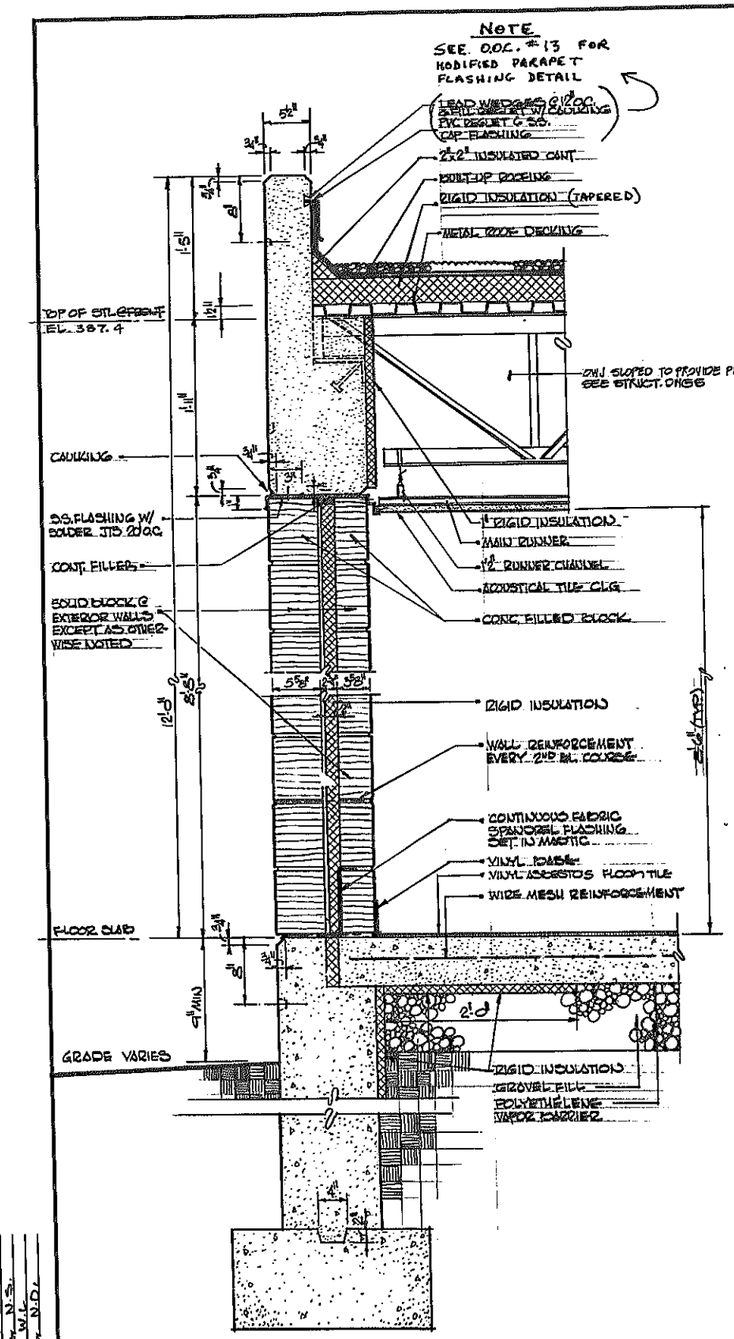
In Charge of R.K.
Designed by A.P.
Design Checked by N.S.
Detailed by W.L.
Detail Checked by M.D.

D96243

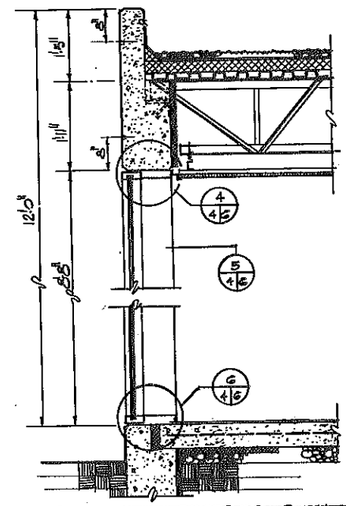
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	162 R.1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

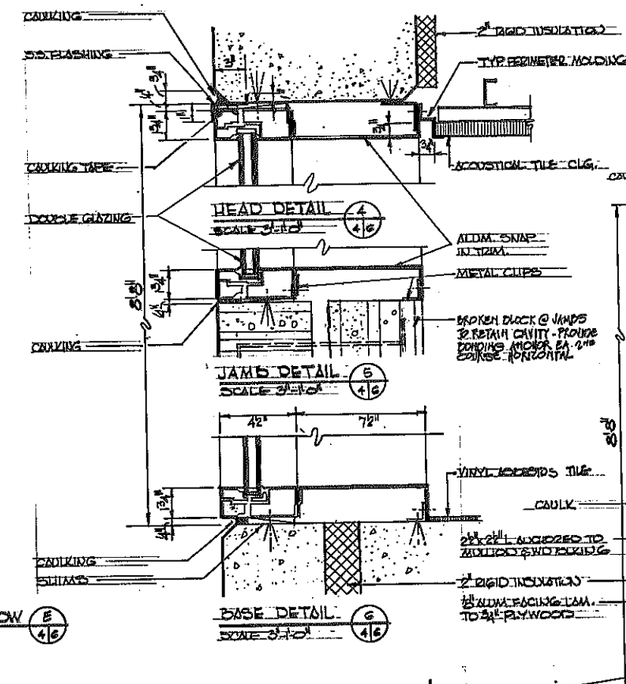
NOTE
SEE D.O.C. #13 FOR MODIFIED PARAPET FLASHING DETAIL



TYPICAL EXTERIOR WALL SECTION (D/4/6)
SCALE: 1½"=1'0"



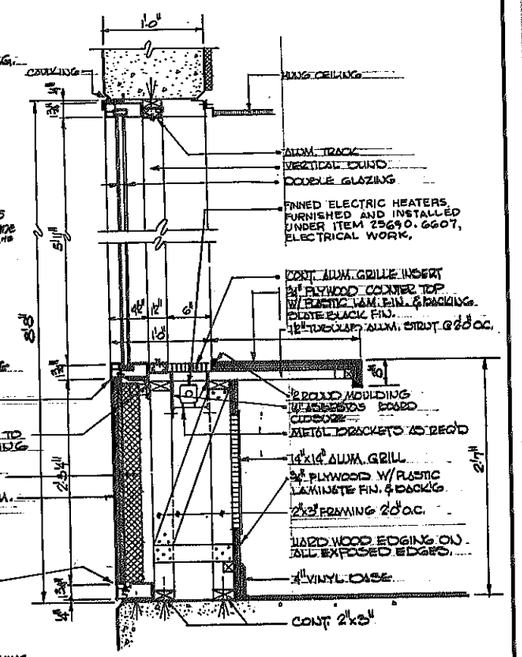
SECTION THRU RECORDER ROOM WINDOW (E/4/6)
SCALE: 3/4"=1'0"



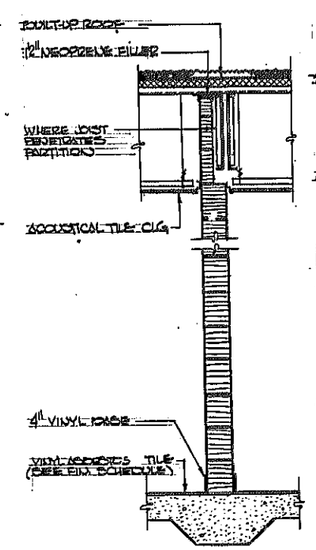
HEAD DETAIL (4/4/6)
SCALE: 3"=1'0"

JAMB DETAIL (5/4/6)
SCALE: 3"=1'0"

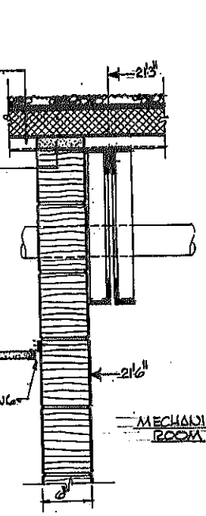
BASE DETAIL (6/4/6)
SCALE: 3"=1'0"



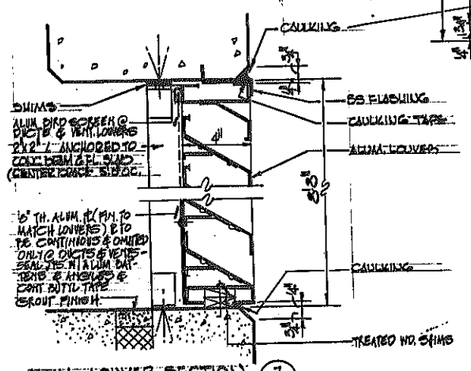
SECTION @ SUPERVISORS COUNTER (D/4/6)
SCALE: 1½"=1'0"



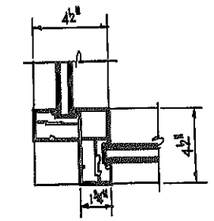
TYPICAL INTERIOR WALL SECTION
SCALE: 3/4"=1'0"



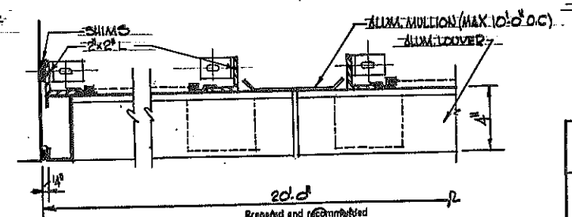
SECTION (3/5/6)
SCALE: 1½"=1'0"



ALUM. LOUVER SECTION (7/4/6)
SCALE: 3"=1'0"



CORNER DETAIL (10/4/6)
SCALE: 3"=1'0"



HORZ. LOUVER SECT. (8/4/6)
SCALE: 3"=1'0"

Prepared and recommended
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7/30/79

REVISIONS

UTILITY BUILDING
WALL SECTIONS & DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

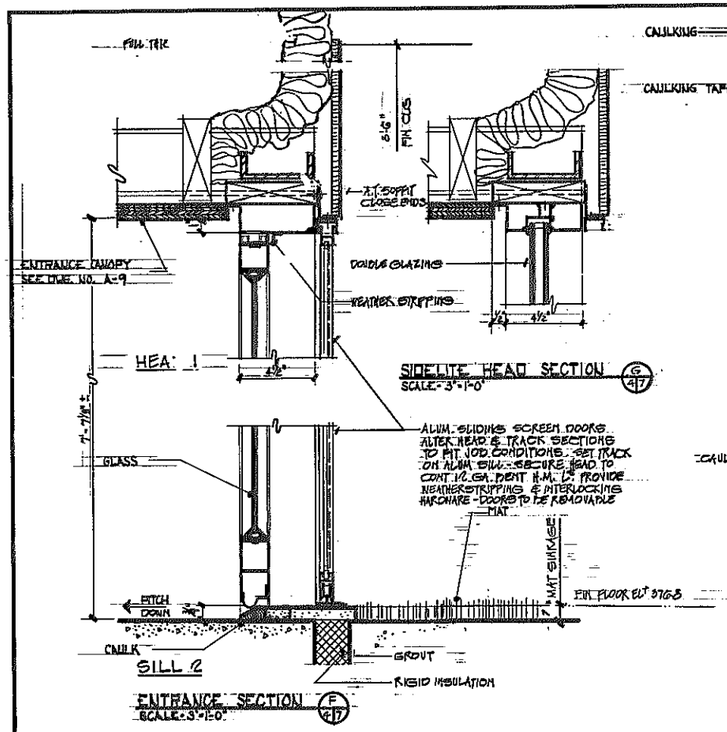
DWG. NO.	SCALE	DATE	
A-6	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

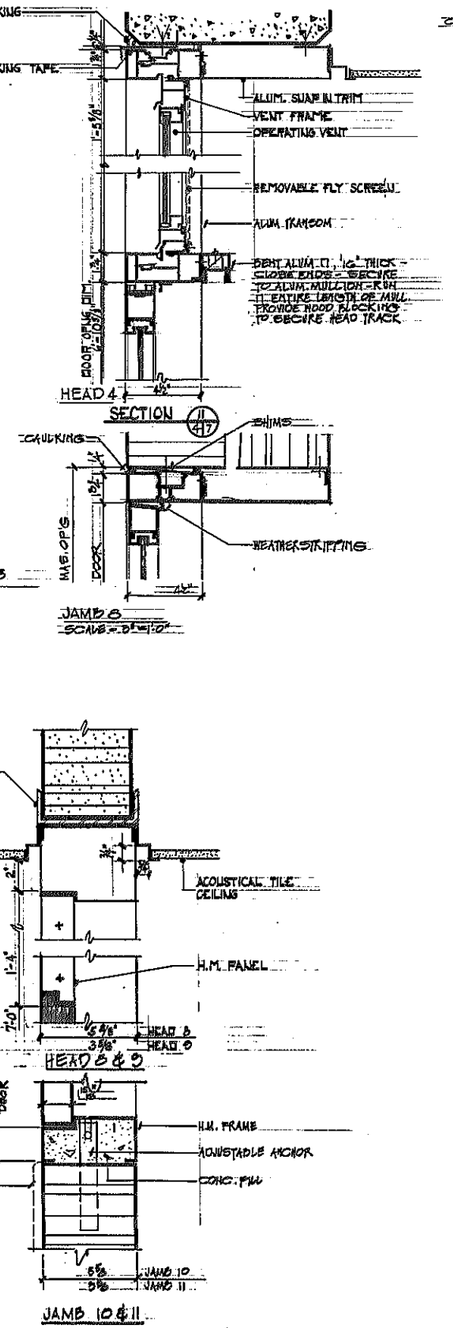
In Charge of R.L.S.
Designed by A.P.
Design Checked by N.S.
Detailed by W.K.
Detail Checked by N.D.

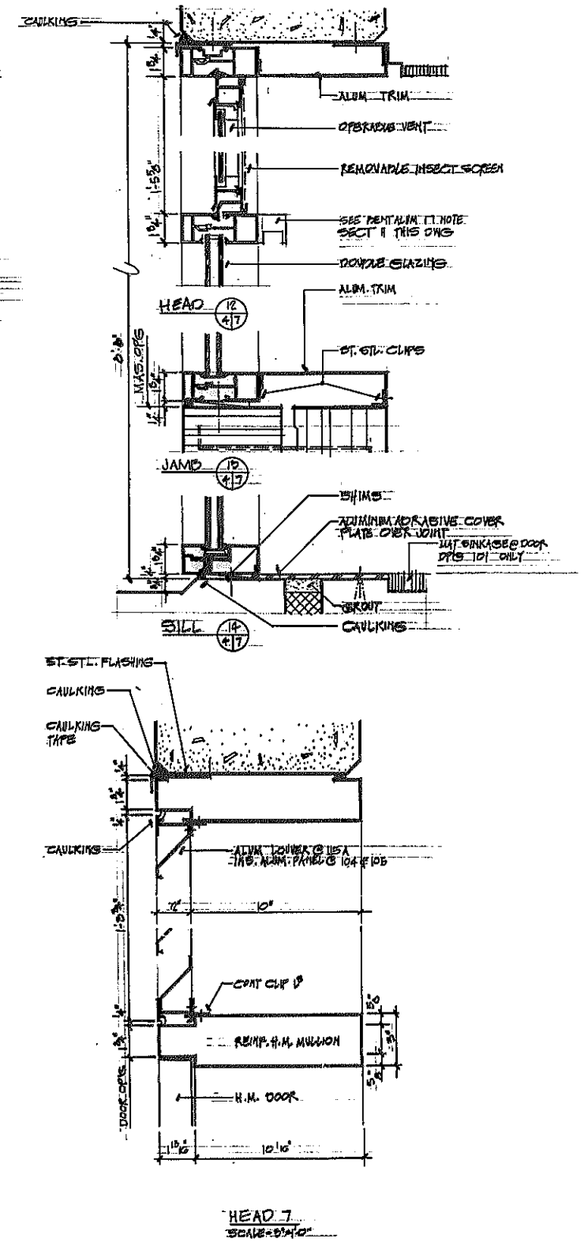
D96243

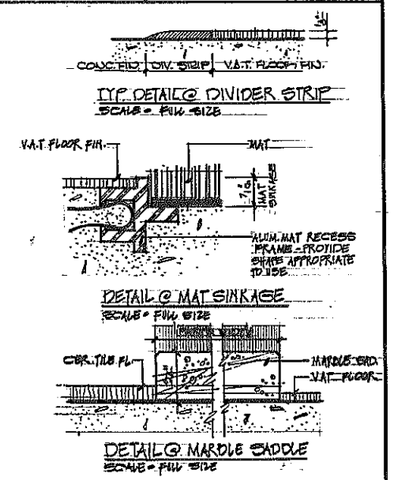
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	163	284

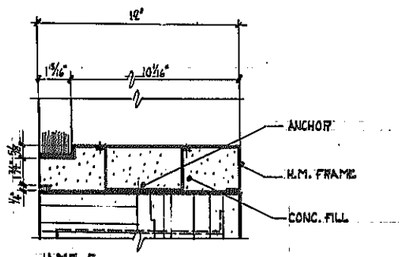
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

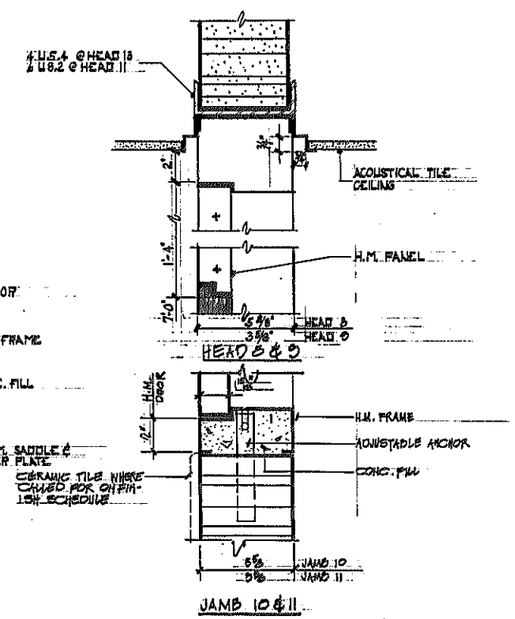


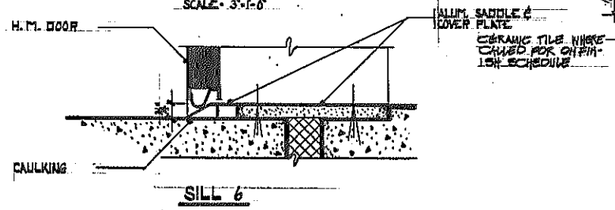












In Charge of R.K.
Designed by A.P.
Design Checked by N.S.
Detailed by W.L.
Detail Checked by N.D.

Prepared and recommended
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7/30/79

UTILITY BUILDING
SECTIONS & DETAILS

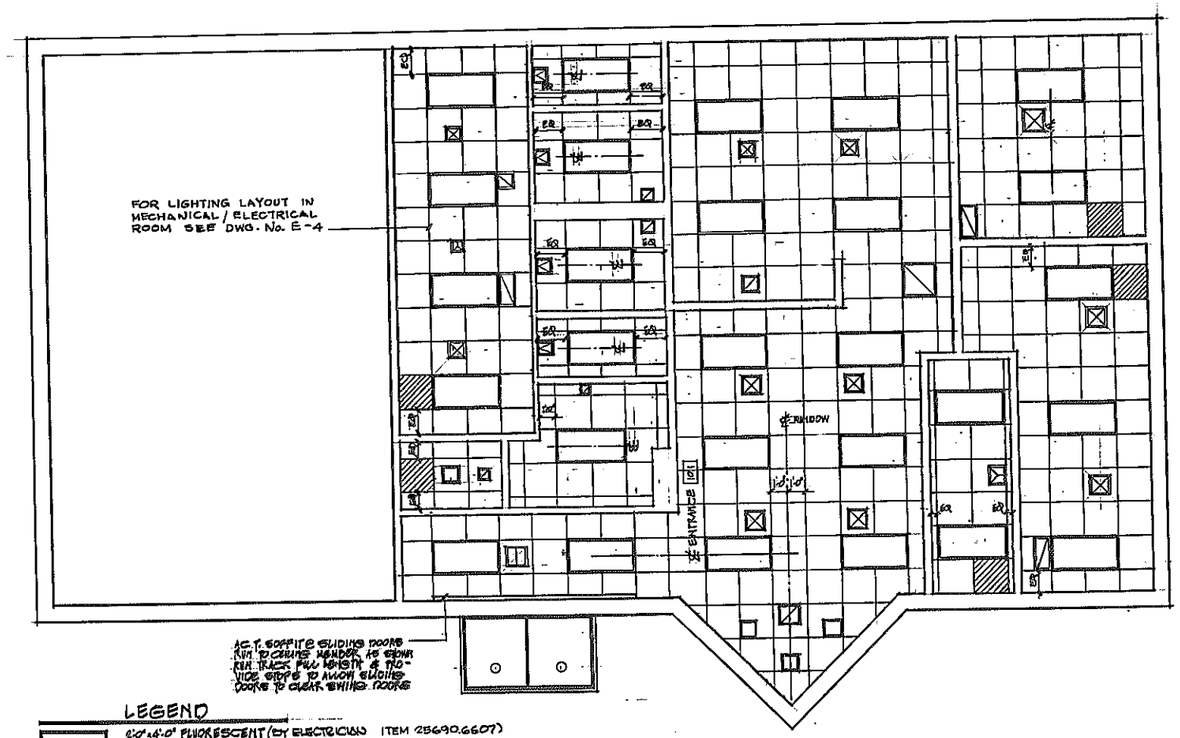
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DWG. NO.	SCALE	DATE	
A-7	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

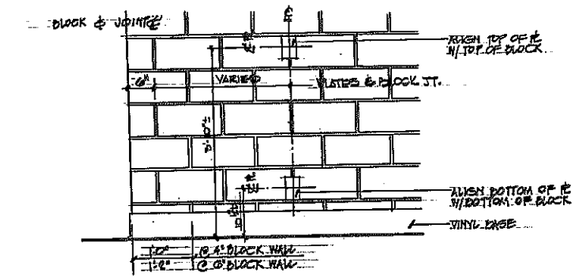
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	164(R)	284

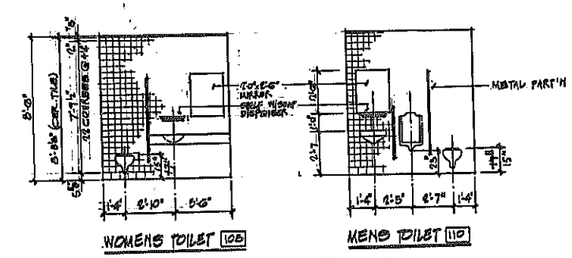
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



REFLECTED CEILING PLAN
SCALE = 1/4" = 1'-0"



CORNER DETAIL & COVER PLATE LOCATION
SCALE = 3/4" = 1'-0"

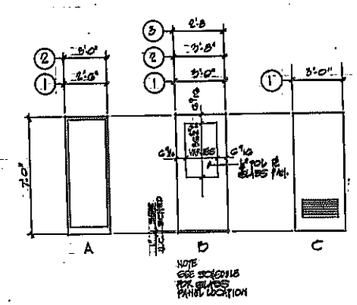


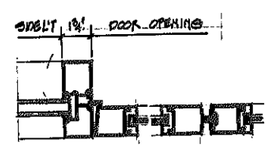
ELEVATIONS @ WET WALLS
SCALE = 1/2" = 1'-0"

NOTE: PLUMBING FIXTURES FURNISH & INSTALL UNDER ITEM 25690.6605 PLUMBING WORK

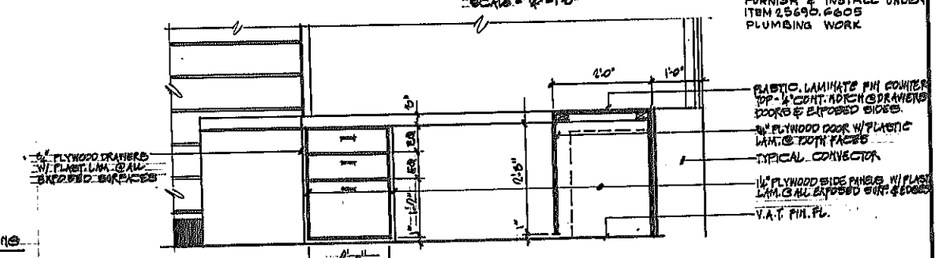
LEGEND

- 2'-0" x 4'-0" FLUORESCENT (BY ELECTRICIAN ITEM 25690.6607)
- 1'-0" x 1'-0" INCANDESCENT (BY ELECTRICIAN ITEM 25690.6607)
- INCANDESCENT DOWNLIGHT (BY ELECTRICIAN ITEM 25690.6607)
- FULL TILE
- AIR SUPPLY DIFFUSER (BY HVAC ITEM 25690.6606)
- AIR EXHAUST REGISTER (BY HVAC ITEM 25690.6606)





ALUMINUM & GLASS-JAMB D
SCALE = 3" = 1'-0"



DETAIL @ SUPERVISORS DESK
SCALE = 3/4" = 1'-0"

DOOR SCHEDULE

DOOR No	DOOR OPE	FRAME HEAD	FRAME JAMB	FRAME MAT.	DOOR TYPE	DOOR MAT.	SILL OR SKODDA	HARDWARE SET	HARDWARE LOCK	REMARKS
101	2'-2"x7'-5"	1	3	ALUM	A-1	GLASS	2	1		PAIR OF DOORS
104	3'-8"x7'-0	7	5	H.M.	B-2	H.M.	6	2		
105	3'-8"x7'-0"	7	5	H.M.	B-2	H.M.	6	2		
105A	3'-0"x7'-0"	8	10	H.M.	D-1	H.M.	–	3		
106	3'-0"x7'-0"	4	8,9	ALUM.	A-2	GLASS	2	4		
107	3'-0"x7'-0"	8	10	H.M.	C-1	H.M.	–	5		PROVIDE 1/4" POL. & GLASS PANEL @ DOOR
108	3'-0"x7'-0"	8	10	H.M.	C-1	H.M.	12	5		
109	3'-0"x7'-0"	9	11	H.M.	D-1	H.M.	–	5		PROVIDE 1/4" POL. & GLASS PANEL @ DOOR
110	3'-0"x7'-0"	8	10	H.M.	C-1	H.M.	12	5		
111	3'-0"x7'-0"	8	10	H.M.	C-1	H.M.	–	5		PROVIDE 1/4" POL. & GLASS PANEL @ DOOR
112	3'-0"x7'-0"	9	11	H.M.	D-1	H.M.	–	5		PROVIDE 1/4" POL. & GLASS PANEL @ DOOR
113	3'-0"x7'-0	8	10	H.M.	D-1	H.M.	–	6		
114	3'-0"x7'-0"	8	10	H.M.	D-1	H.M.	12	6		DOOR UNDERCUT
115	3'-0"x7'-0"	8	10	H.M.	D-1	H.M.	1 1/2" x 1/2" ALUM.	3		GLASS D. DOOR, NO GLASS.
115A	3'-8"x7'-0"	7	5	H.M.	D-2	H.M.	6	2		
116	6'-8"x7'-0"	12.5	12	H.M.	D-D	H.M.	–	3		DOUBLE DOOR, HAS ANCHOR, SILL & SEALS. SEE ITEM 25690.6605 PLUMBING WORK.

REVISIONS

UTLITY BUILDING REFLECTED CEILING PLAN, & MISCELLANEOUS DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DWG. NO.	SCALE	DATE	Goodkind & O'Dea, Inc.	CONSULTING ENGINEERS
A-8	AS SHOWN	7-30-79		

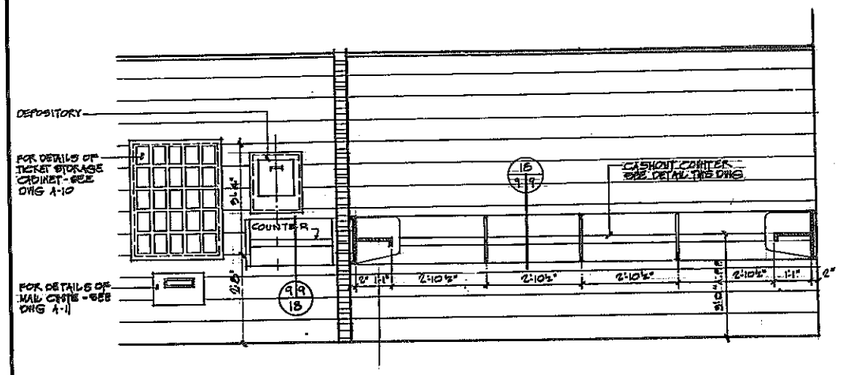
Prepared and recommended
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7/30/79

In Charge of R.K.
Designed by A.P.
Design Checked by N.S.
Detailed by W.L.
Detail Checked by N.D.

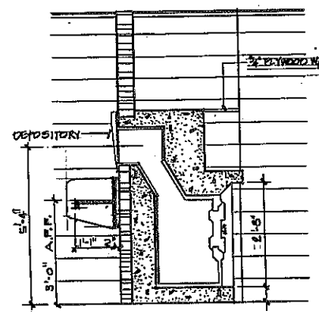
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	165 R1	284

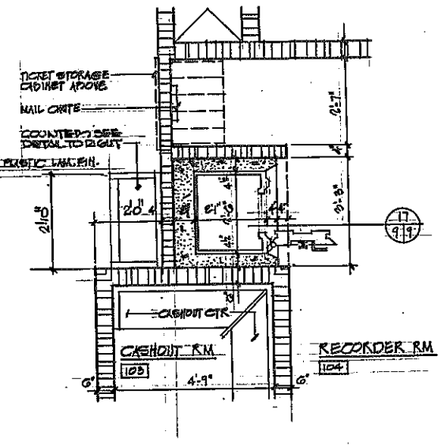
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



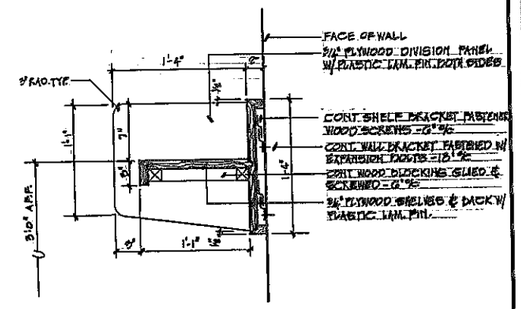
ELEVATION @ SAFE, TICKET STORAGE CABINET & CASHOUT COUNTER.
SCALE = 1/2" = 1'-0"



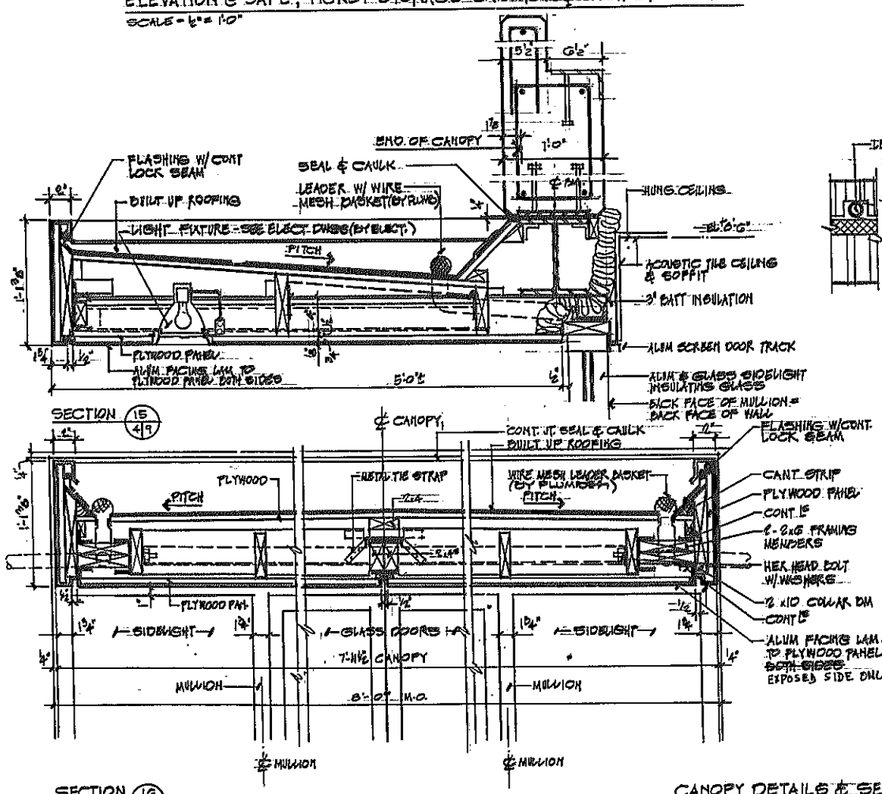
SAFE 17 9/9
SCALE = 1/2" = 1'-0"



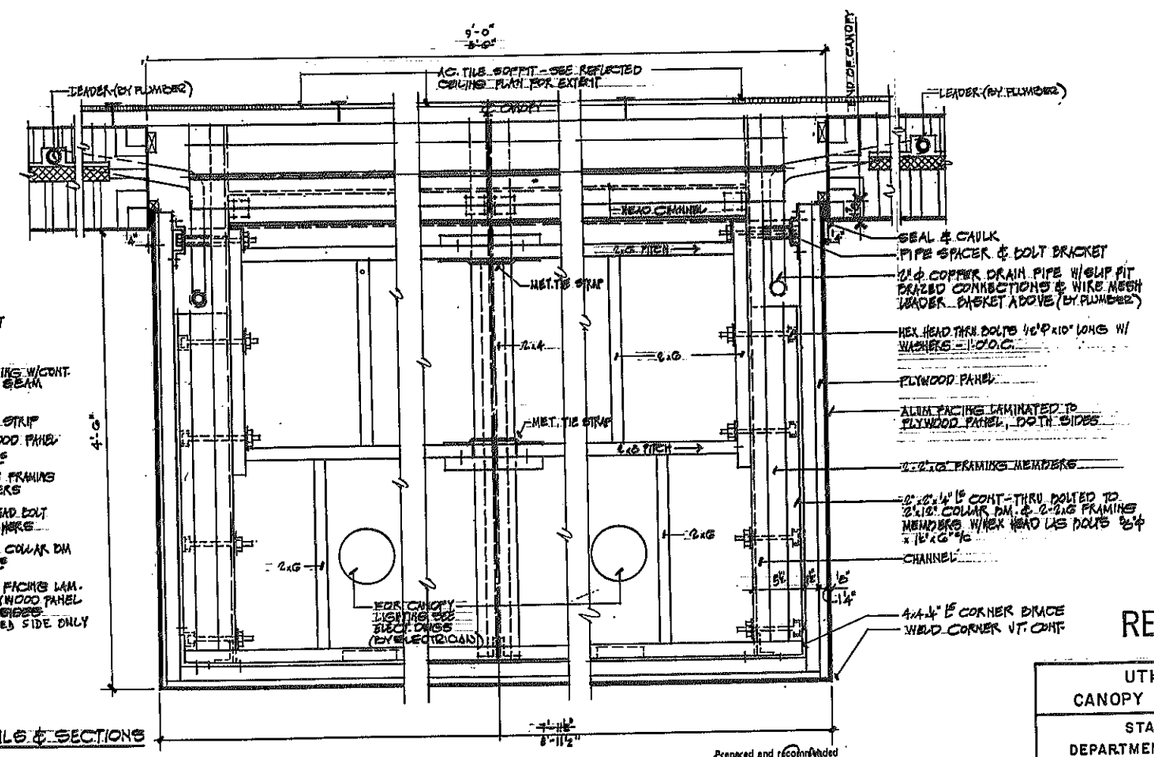
PART PLAN @ OFFICE AREA
SCALE = 1/2" = 1'-0"



CASHOUT COUNTER 10 9/9
SCALE = 1/2" = 1'-0"



CANOPY DETAILS & SECTIONS
SCALE = 1/2" = 1'-0"
NOTE:
CANOPY IS SYMMETRICAL ABOUT CENTER LINE. FOR ADDITIONAL INFO. SEE STRUCT DWGS.



PLAN

Prepared and recommended
Goodkind & O'Dea, Inc.
Consulting Engineers
Date 7/30/79

REVISIONS

UTILITY BUILDING
CANOPY DETAILS & SECTIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

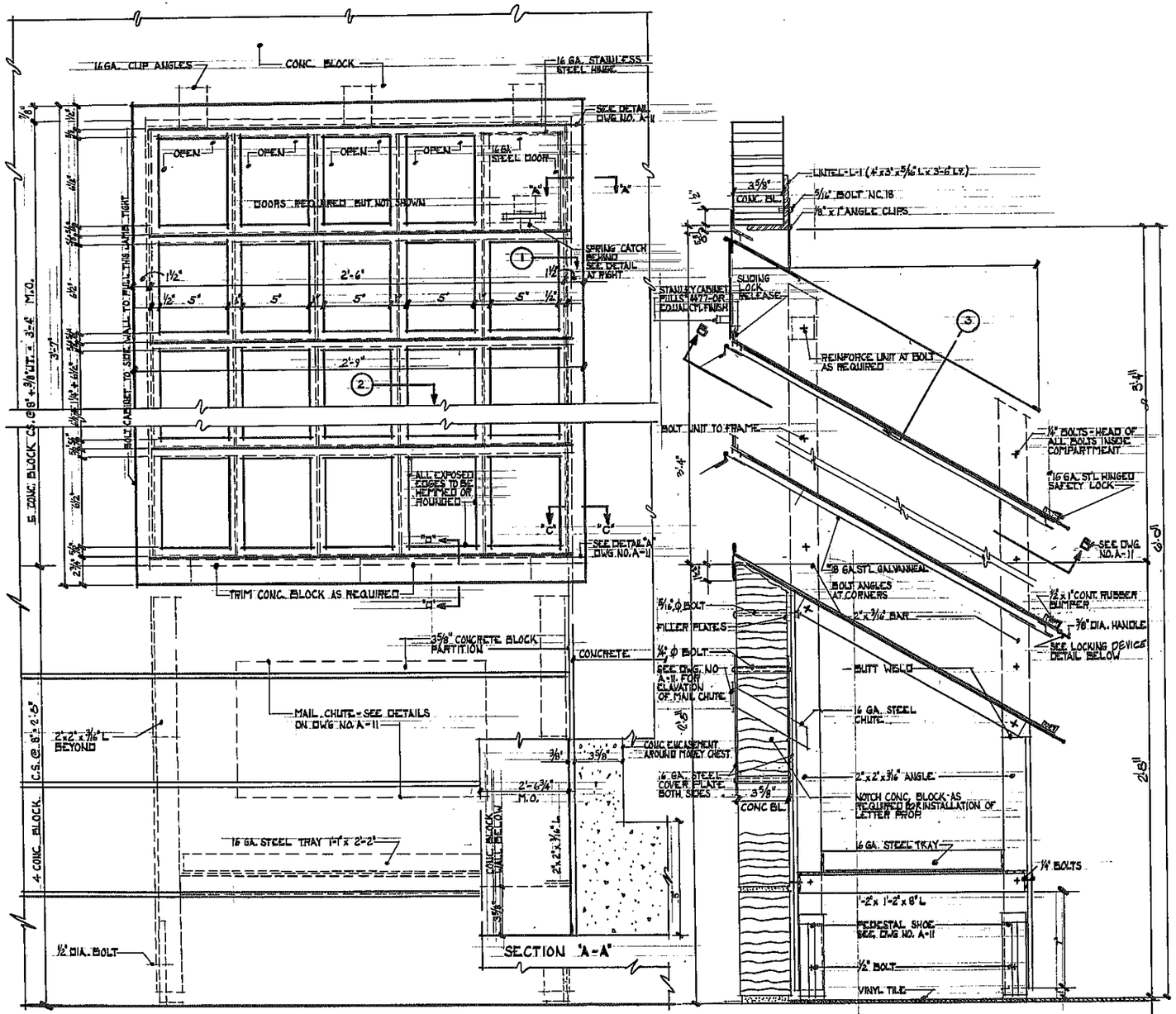
DWG. NO.	SCALE	DATE	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS
A-9	AS SHOWN	7-30-79	

In Charge of R.K.
Designed by A.P.
Design Checked by N.S.
Detailed by W.L.
Detail Checked by N.D.

D96243

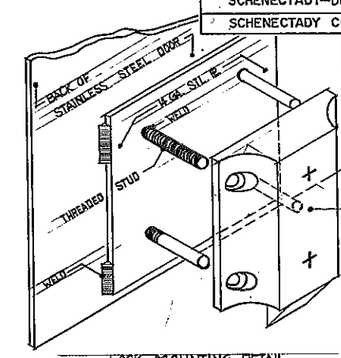
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	166	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

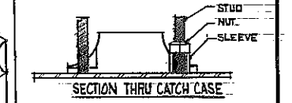


OFFICE ELEVATION
SCALE - 3" = 1'-0"
TICKET STORAGE CABINET

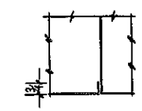
TYPICAL SECTION
SCALE = 3" = 1'-0"



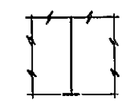
LOCK MOUNTING DETAIL



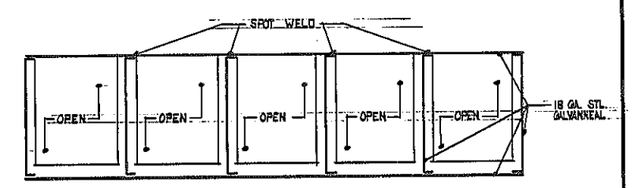
SECTION THRU CATCH CASE



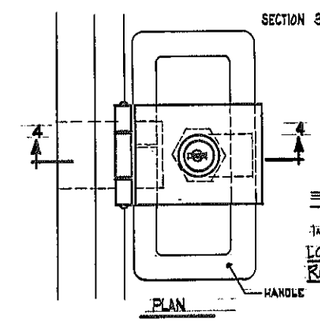
SECTION 1



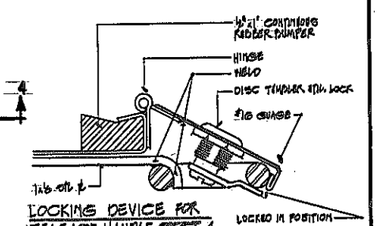
SECTION 2



SECTION 3



PLAN



LOCKING DEVICE FOR RELEASE HANDLE - SECT. 4

NOTE!
ALL WORK ON THIS DWG TO BE DONE UNDER ITEM 25G90.G37 TOLL UTILITY BUILDING, ISLANDS, CANOPY AND RELATED WORK UNLESS OTHERWISE NOTED.

Prepared and Recommended
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7/30/79

UTILITY BUILDING
TICKET STORAGE CABINET DETAILS
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

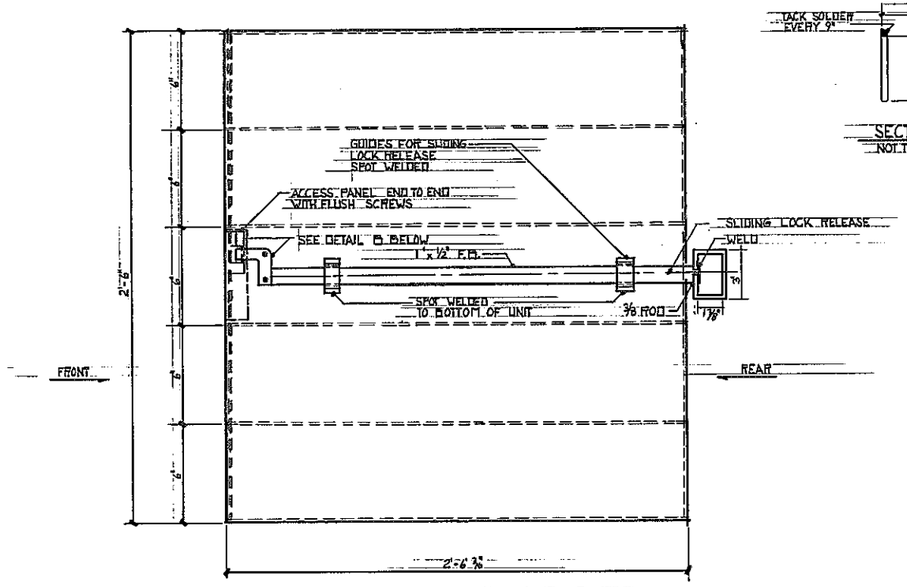
DWG. NO.	SCALE	DATE	
A-10	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

In Charge of R.K.
Designed by A.P.
Design Checked by N.S.
Drafted by W.L.
Detail Checked by N.D.

D96243

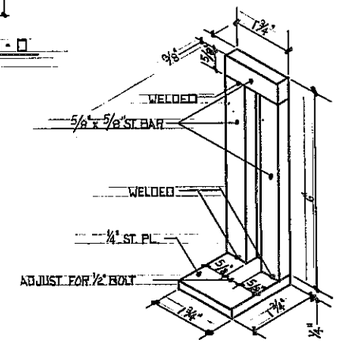
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	167	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

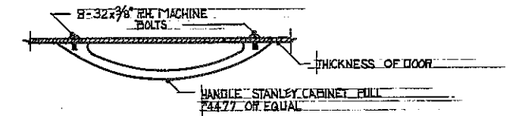


REFLECTED PLAN B-B
SCALE = 3" = 1'-0"

SECTION D-D
NOT TO SCALE

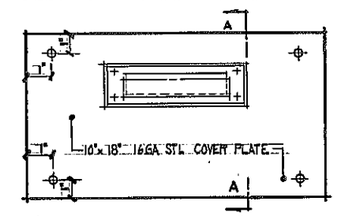


DETAIL OF PEDESTAL SHOE
SCALE = 1/2 FULL SIZE

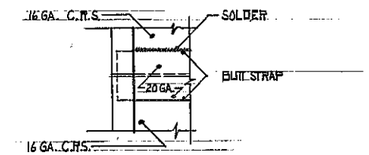


DETAIL SHOWS HOW HANDLE IS FASTENED TO THE DOOR
PLAN VIEW

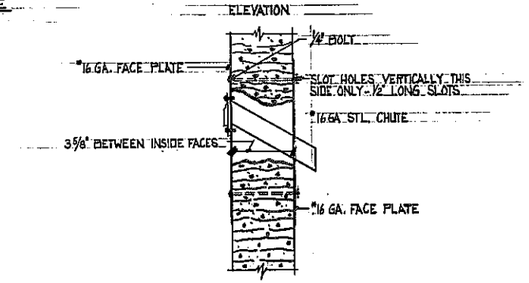
SEE SPECS FOR LETTER BOX PLATE



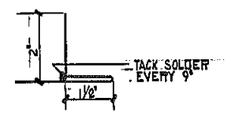
ELEVATION



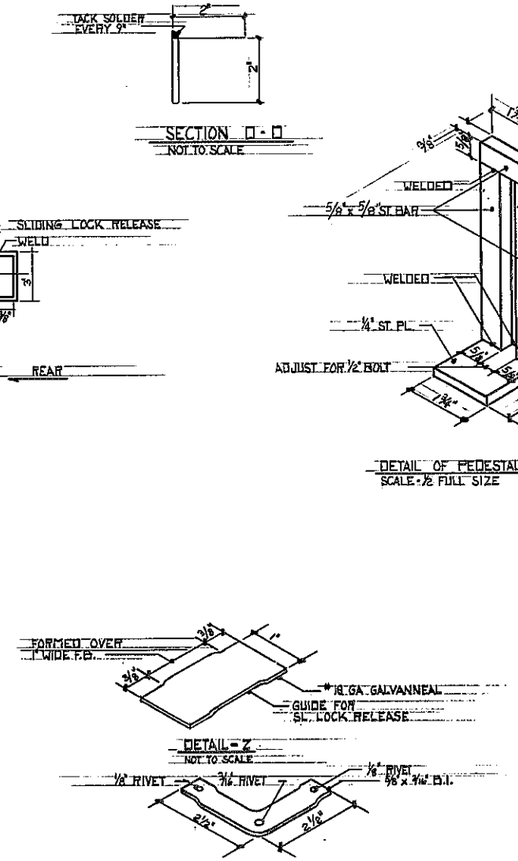
REAR ELEVATION OF PANEL SHOWING BUTT STRAP AT SEAM
DETAIL - C
NOT TO SCALE
SEE SHEET A-10 FOR LOCATION



SECTION A-A
DETAIL OF MAIL CHUTE FOR TICKET STORAGE CABINET
SCALE = 3" = 1'-0"

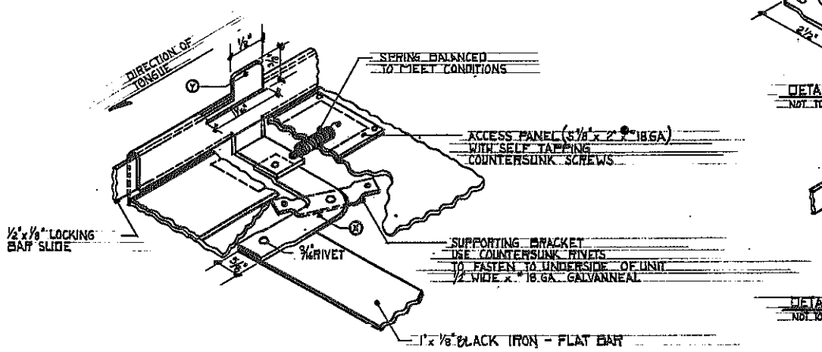


SECTION C-C
NOT TO SCALE

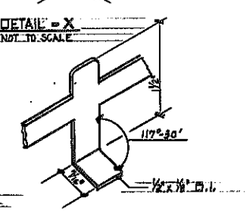


DETAIL - Z
NOT TO SCALE

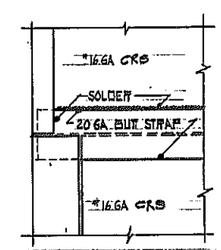
DETAIL - X
NOT TO SCALE



DETAIL - B
OF SLIDING DEVICE
NOT TO SCALE



DETAIL - Y
NOT TO SCALE



REAR ELEVATION OF PANEL SHOWING BUTT STRAP AT SEAM
DETAIL - A
NOT TO SCALE
SEE SHEET A-10 FOR LOCATION

Recommended and Approved
GOODLAND & O'DEA, INC.
Consulting Engineers
Date 7/30/79

UTILITY BUILDING
MISCELLANEOUS EQUIPMENT DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

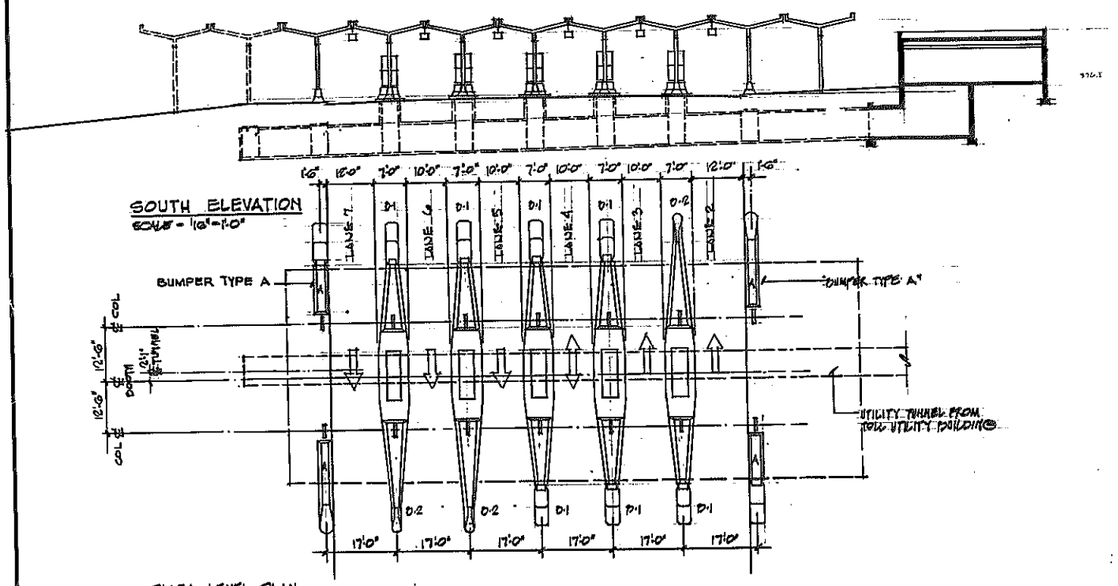
DWG. NO.	SCALE	DATE	
A-11	AS SHOWN	7-30-79	Goodland & O'Dea, Inc. CONSULTING ENGINEERS

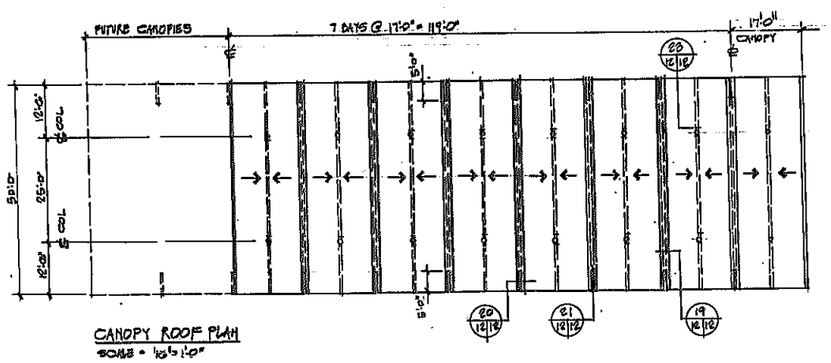
In Charge of R.V.
Designed by A.P.
Quantities Checked by N.S.
Detailed by W.L.
Detail Checked by N.O.

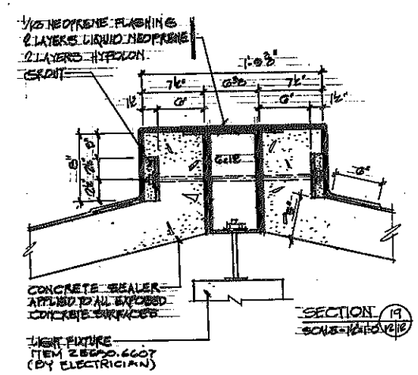
D96243

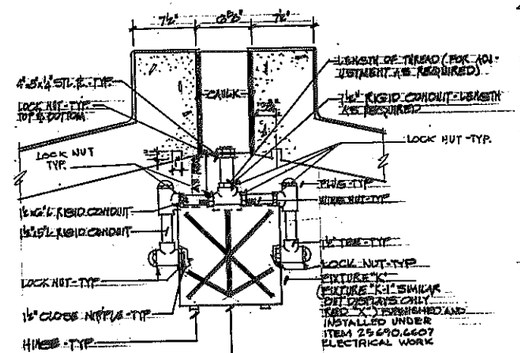
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	168R1	284

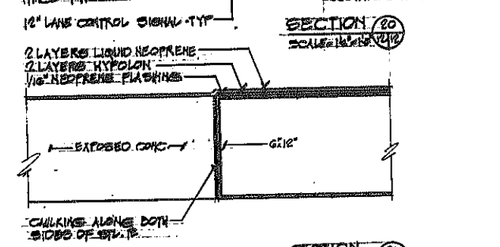
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY--DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

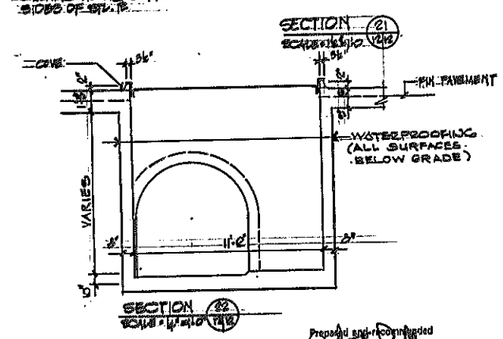


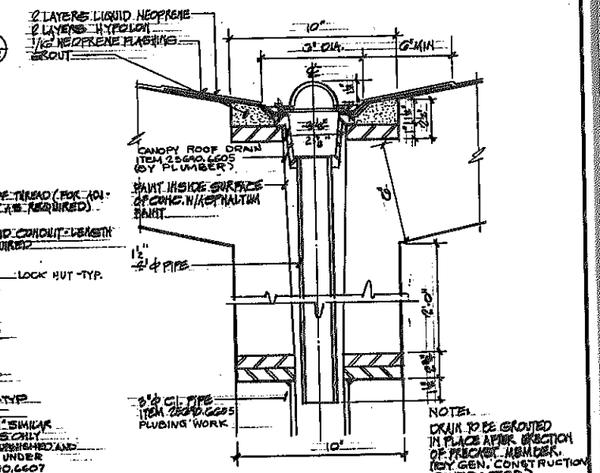


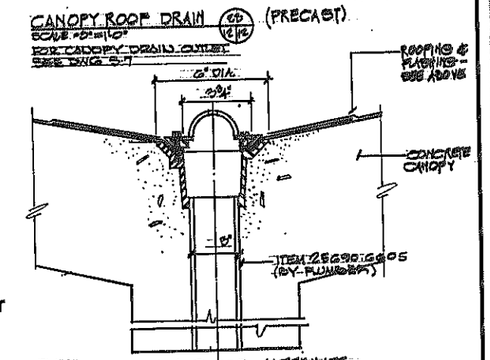












REVISIONS

Prepared and Recommended
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7/30/79

TOLL PLAZA
CANOPY PLANS & DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

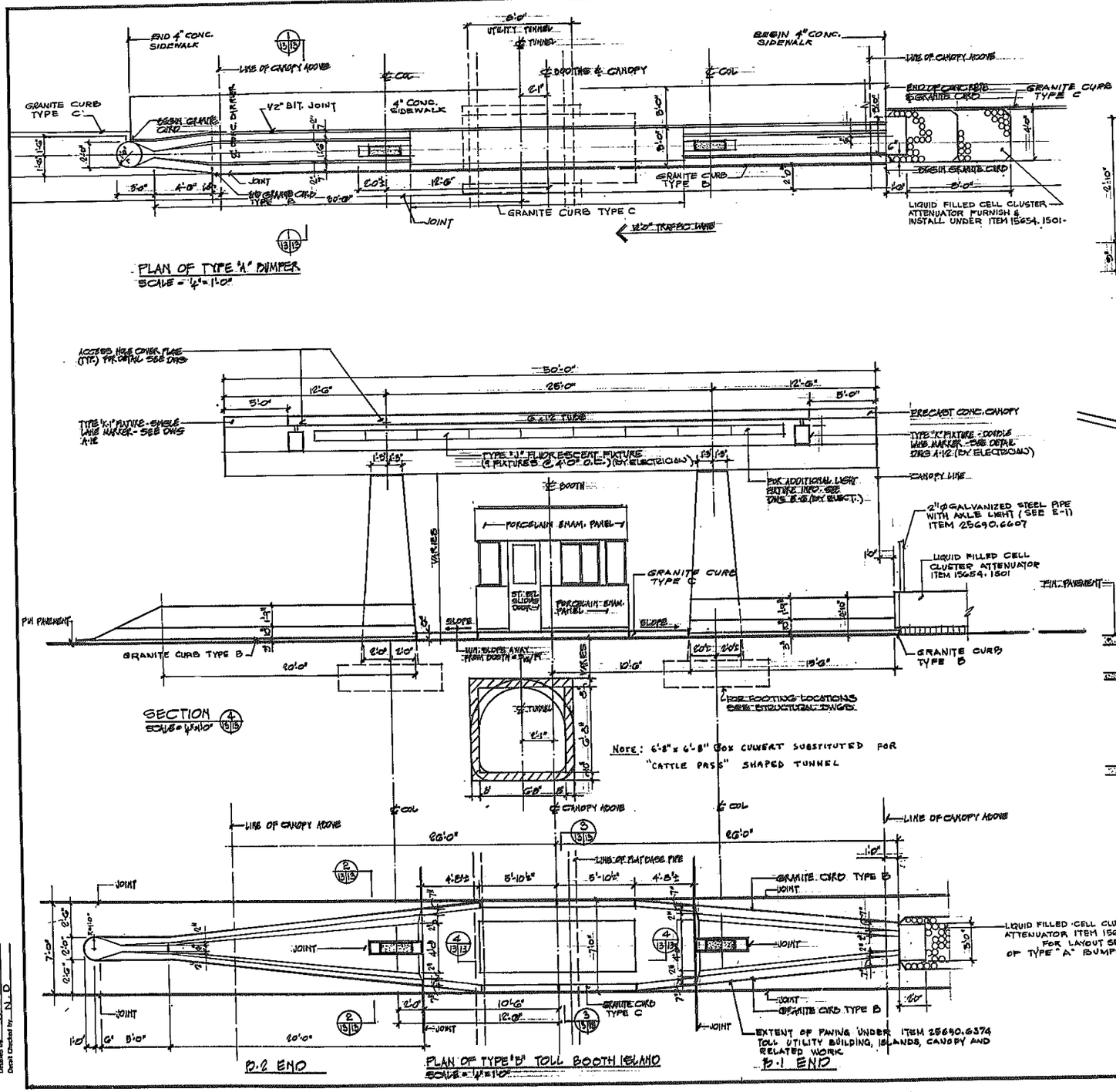
DWG. NO.	SCALE	DATE	CONSULTING ENGINEERS
A-12	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc.

In Charge of R.K.
Designed by A.P.
Design Checked by N.S.
Detailed by W.L.
Detail Checked by N.D.

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	169 Q.1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



REVISIONS

DETAIL NUMBER
SHEET DET. LOCATED — SHEET DETAIL APPEARS

Prepared and recommended
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7/30/79

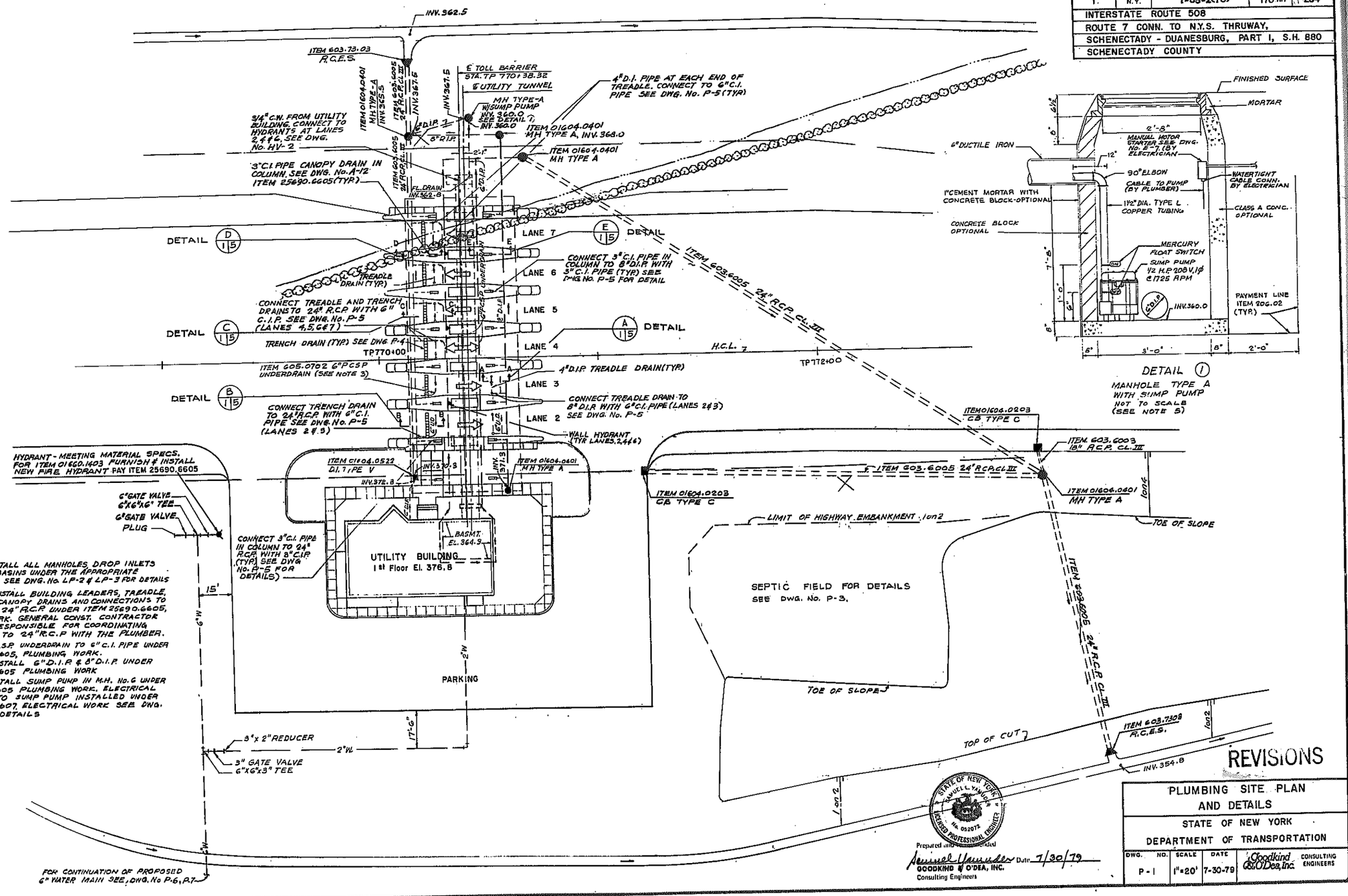
TOLL PLAZA ISLAND PLANS & DETAILS				
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION				
DWG. NO.	SCALE	DATE	Goodkind & O'Dea, Inc.	CONSULTING ENGINEERS
A-13	AS SHOWN	7-30-79		

In Charge of R.K.
Designed by A.P.
Design Checked by N.S.
Detailed by W.L.
Detail Checked by N.D.

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	170 P.1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY,
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



NOTES:
1. FURNISH & INSTALL ALL MANHOLES, DROP INLETS AND CATCH BASINS UNDER THE APPROPRIATE HIGHWAY ITEMS SEE DWG. No. LP-2 & LP-3 FOR DETAILS
2. FURNISH & INSTALL BUILDING LEADERS, TREADLE, TRENCH AND CANOPY DRAINS AND CONNECTIONS TO 8" D.I.P. AND 24" R.C.P. UNDER ITEM 25690.6605, PLUMBING WORK. GENERAL CONST. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING CONNECTIONS TO 24" R.C.P. WITH THE PLUMBER.
3. CONNECT 6" P.C.S.P. UNDERDRAIN TO 6" C.I. PIPE UNDER ITEM 25690.6605, PLUMBING WORK.
4. FURNISH & INSTALL 6" D.I.P. & 8" D.I.P. UNDER ITEM 25690.6605 PLUMBING WORK
5. FURNISH & INSTALL SUMP PUMP IN M.H. No. 6 UNDER ITEM 25690.6605 PLUMBING WORK. ELECTRICAL CONNECTION TO SUMP PUMP INSTALLED UNDER ITEM 25690.6607, ELECTRICAL WORK SEE DWG. No. E-7 FOR DETAILS

REVISIONS

STATE OF NEW YORK — SAMUEL L. TAYLOR — No. 052072 — LICENSED PROFESSIONAL ENGINEER

Prepared under the supervision of
Samuel L. Taylor Date 7/30/79
GOODKIND & O'DEA, INC.
Consulting Engineers

PLUMBING SITE PLAN AND DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

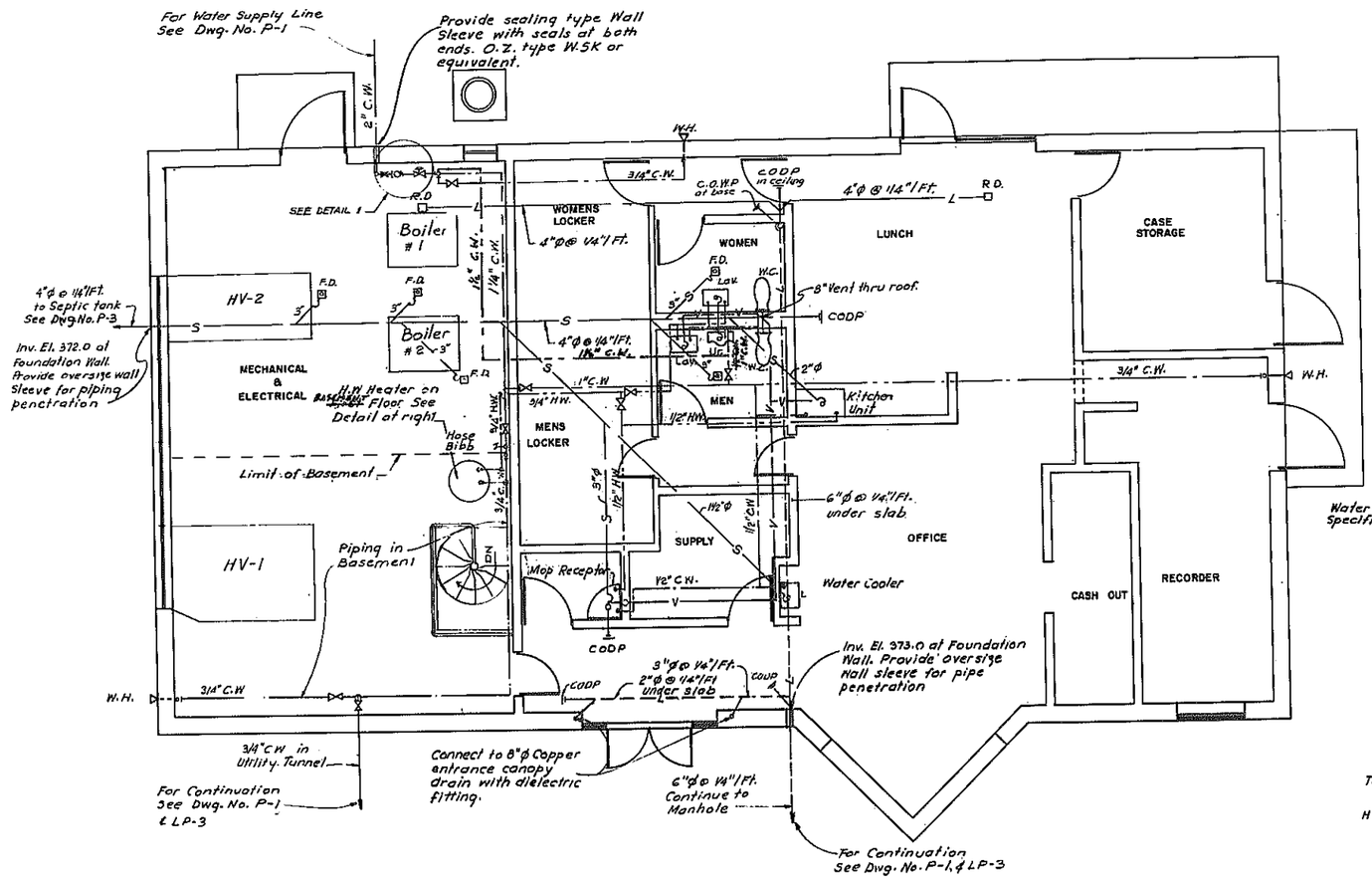
DWG. NO.	SCALE	DATE	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS
P-1	1"=20'	7-30-79	

In Charge of R. WEUTZER
Designed by N. SPAVENTA
Design Checked by R. WEUTZER
Detailed by M. DA COSTA
Detail Checked by M. LANE

D96243

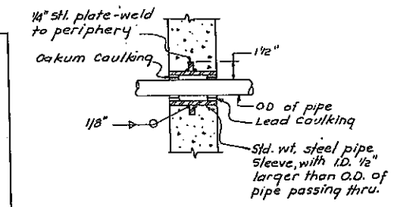
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	171/21	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY.,
SCHENECTADY – DUANESBURG, PART I, S.H. 860
SCHENECTADY COUNTY



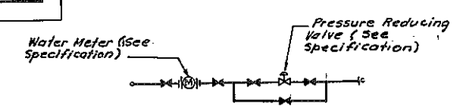
FLOOR PLAN · EL. 376.8

SCALE: 1/4"=1'-0"



SLEEVES THRU FOUNDATION WALL

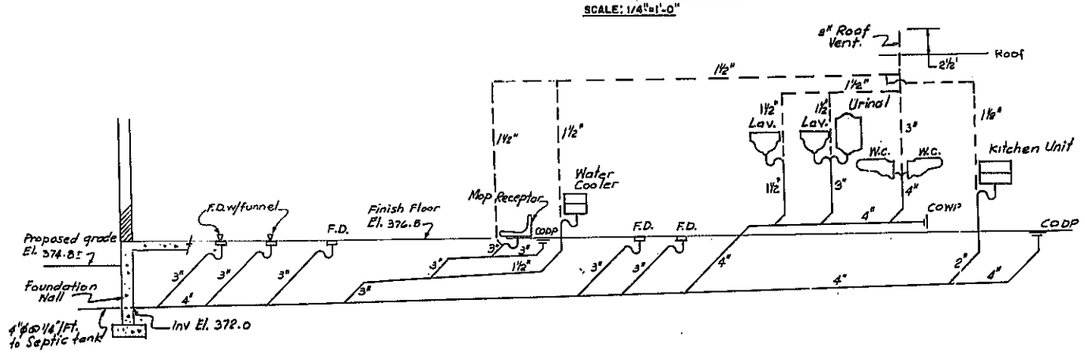
NOT TO SCALE



DETAIL I

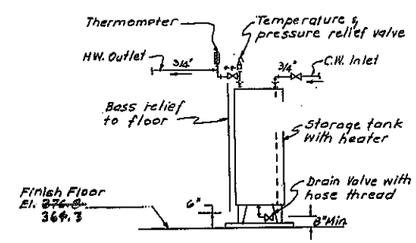
SYMBOLS AND ABBREVIATIONS

SYMBOL	DESCRIPTION
W.H.	Wall Hydrant
S	Soil
V	Vent
	Globe Valve
	Pressure Regulating Valve
	Gate Valve
(Dn) (Up)	Elbow Outlet
	Union
L	Storm leader or drain
CW	Cold Water
HW	Hot Water
CODP	Cleanout Deck Plate
COWP	Cleanout Wall Plate
FD	Floor drain
RD	Roof drain
	Pipe underground
	Hose Bibb



RISER DIAGRAM

NOT TO SCALE



ELECTRIC HOT WATER TANK

NOT TO SCALE

FIXTURE SYMBOLS AND BRANCH PIPING SCHEDULE

FIXTURE ABBREVIATION	SYMBOL PLAN	SYMBOL RISER	WASTE OR SOIL	VENT	C.W.	H.W.
W.C. Water Closet			4"	3"	1/2"	–
Lav or Sink Lavatory			1 1/2"	1 1/2"	1/2"	1/2"
Ur. Urinal			2"	1 1/2"	1/2"	–
F.D. Floor Drain		funnel	3"	–	–	–
Mop Receptor			2"	–	1/2"	1/2"
Water Cooler			1 1/2"	1 1/2"	1/2"	–

STATE OF NEW YORK · SAMUEL L. YANKUSKEY · No. 052072 · LICENSED PROFESSIONAL ENGINEER

Prepared and recommended

Samuel Yankuskey Date 7/30/79

GOODKIND & O'DEA, INC.
Consulting Engineers

REVISIONS

UTILITY BUILDING
PLUMBING PLAN & DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

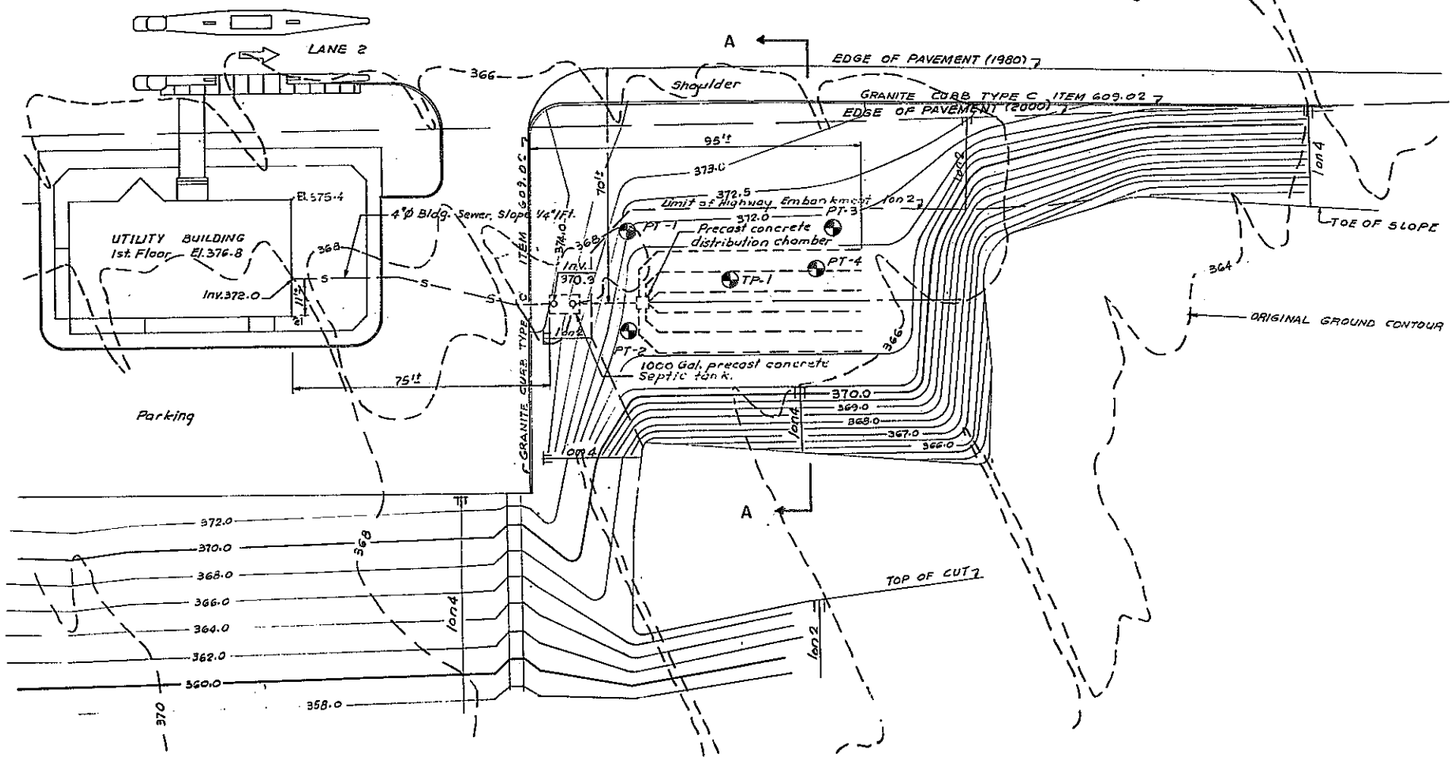
DWG. NO.	SCALE	DATE	
P-2	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

In Charge of R. HAEUSLER
Designed by K. SAKAVENTA
Designed by R. HAEUSLER
Designed by K. DeCOSTA
Detail Checked by K. LANE

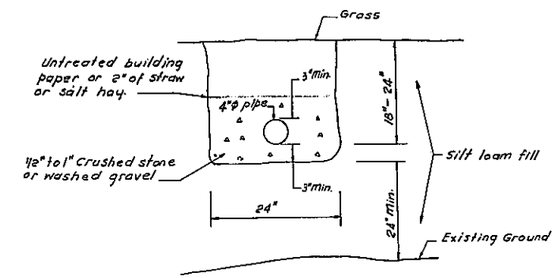
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	172	284

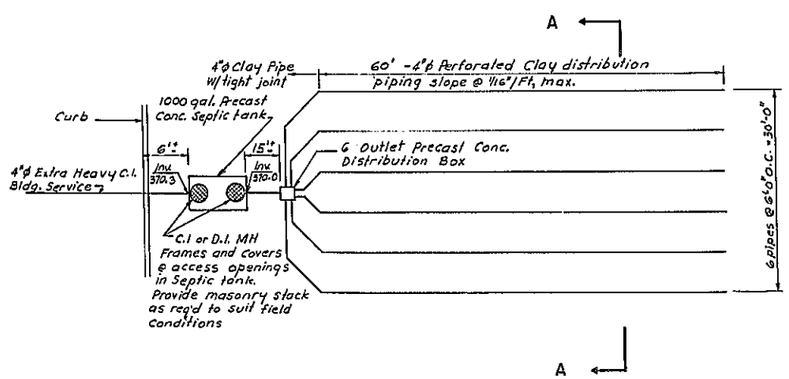
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART I, S. H. 880
SCHENECTADY COUNTY



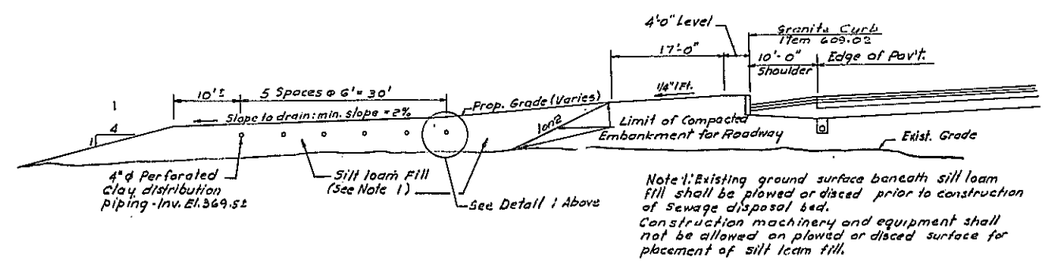
SANITARY DISPOSAL SYSTEM
SITE PLAN & GRADING
SCALE: 1"=20'



DETAIL 1



PIPING PLAN
N.T.S.



SECTION A - A
N.T.S.

STATE OF NEW YORK · SAMUEL L. VANDER · No. 052072 · LICENSED PROFESSIONAL ENGINEER

Prepared and recommended
Samuel Vander Date 7/30/79
GOODKIND & O'DEA, INC.
Consulting Engineers

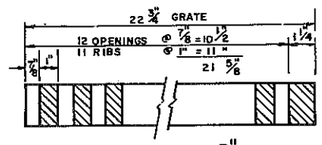
In Charge of	R. KREDITZER
Designed by	K. SPARENTA
Design Checked by	R. KREDITZER
Drafted by	K. LACUTA
Detail Checked by	K. LANE

SEPTIC SYSTEM
PLAN & DETAIL
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

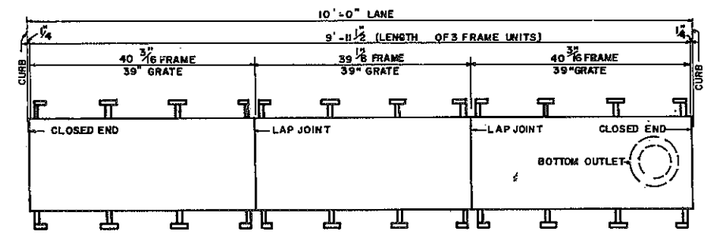
DWG. NO.	SCALE	DATE	
P - 3	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

D96243

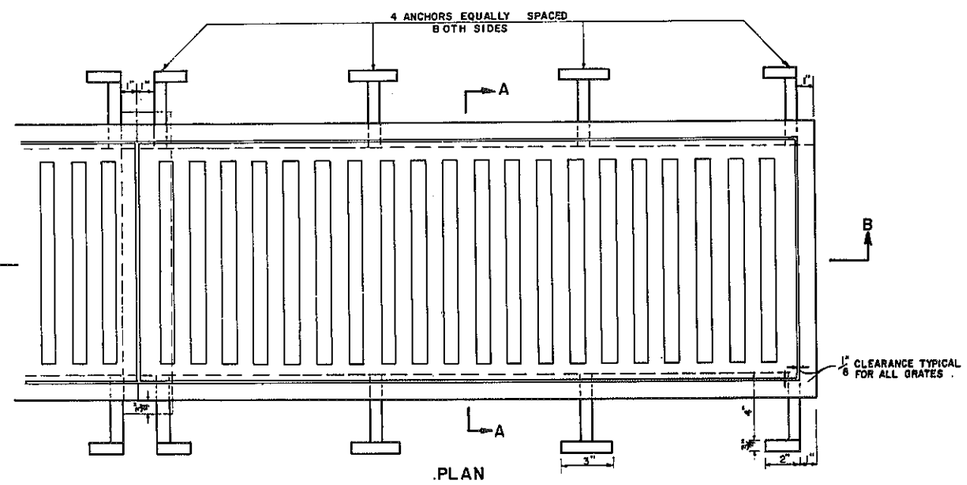
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	I-88-2(10)	173	284
INTERSTATE ROUTE 508				
ROUTE 7 CONN. TO N.Y.S. THRUWAY				
SCHENECTADY-DUANESBURG, PART I, S.H. 880				
SCHENECTADY COUNTY				



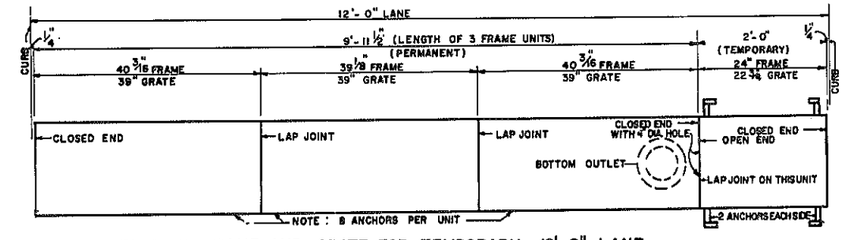
SECTION OF 22 3/4" GRATE



PLAN OF FRAME AND GRATE FOR PERMANENT 10'-0" LANE



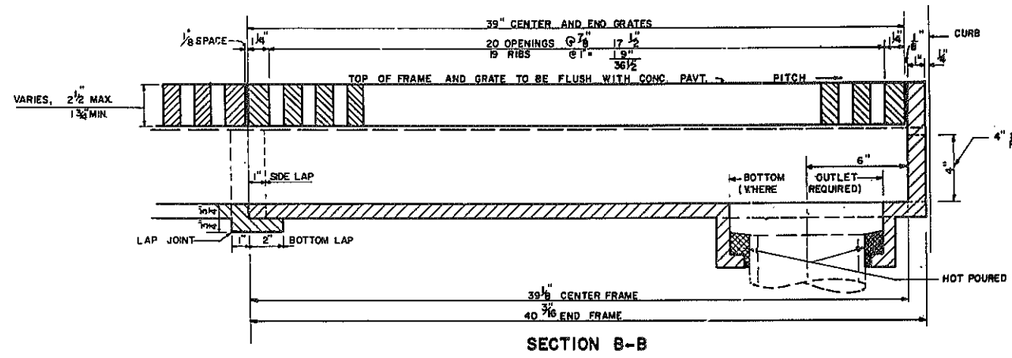
PLAN



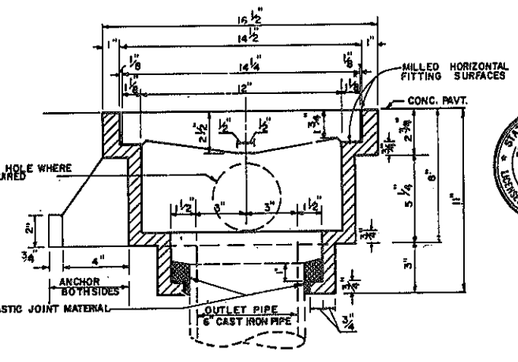
PLAN OF FRAME AND GRATE FOR TEMPORARY 12'-0" LANE

TYPICAL LAYOUTS OF TRENCH DRAINS

SCALE 1" = 1'-0"



SECTION B-B



SECTION A-A

TYPICAL DETAILS OF TRENCH DRAIN

SCALE 3" = 1'-0"

NOTE: 1. TRENCH DRAIN, 6" C.I.P. AND CONNECTIONS TO CROSS DRAINS TO BE PAID FOR AND INSTALLED UNDER ITEM 25690.6605. PLUMBING WORK

STATE OF NEW YORK · SAMUEL L. YARNELL · No. 052072 · LICENSED PROFESSIONAL ENGINEER

Prepared and recommended

Samuel Yarnell

GOODKIND & O'DEA, INC.

Consulting Engineers

Date 7/30/79

TRENCH DRAIN DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DWG. NO.	SCALE	DATE		
P-4	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc.	CONSULTING ENGINEERS

Designed by R.K.
Made by N.S.
Traced by H.O
Checked by M.L

D96243

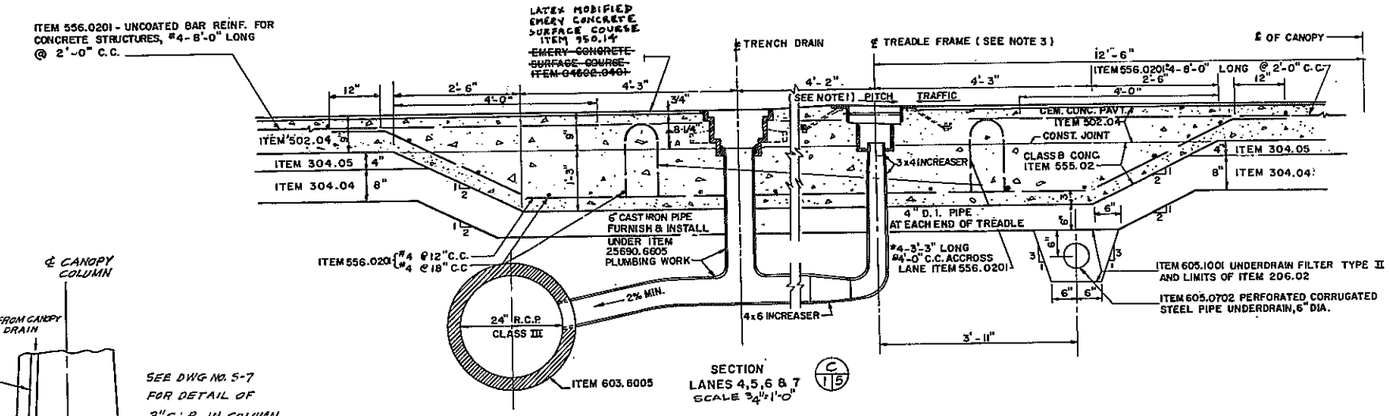
FED ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO	TOTAL SHEETS
1	N Y	I-88-2(10)	(74 A)	284

INTERSTATE ROUTE 508

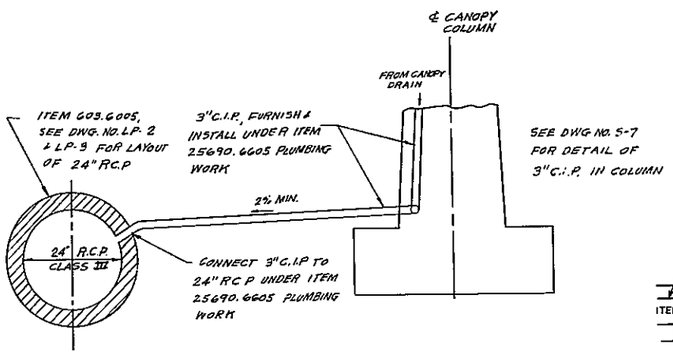
ROUTE 7 CONN. TO N.Y.S. THRUWAY

SCHENECTADY-DUANESBURG, PART 1, S.H. 880

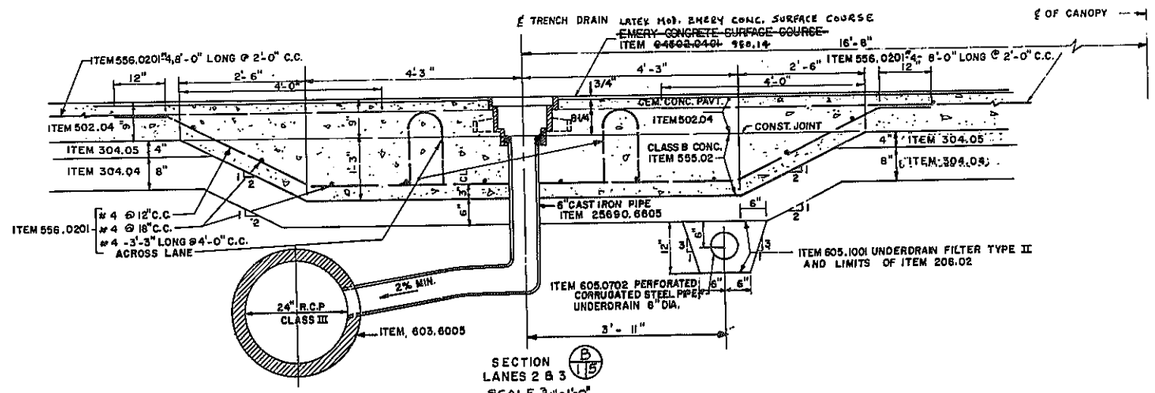
SCHENECTADY COUNTY



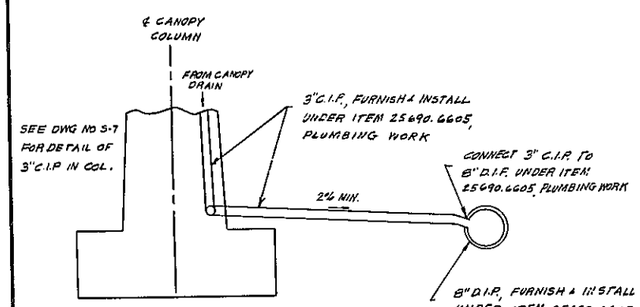
SECTION LANES 4,5,6 & 7 (C/15)
SCALE 3/4" = 1'-0"



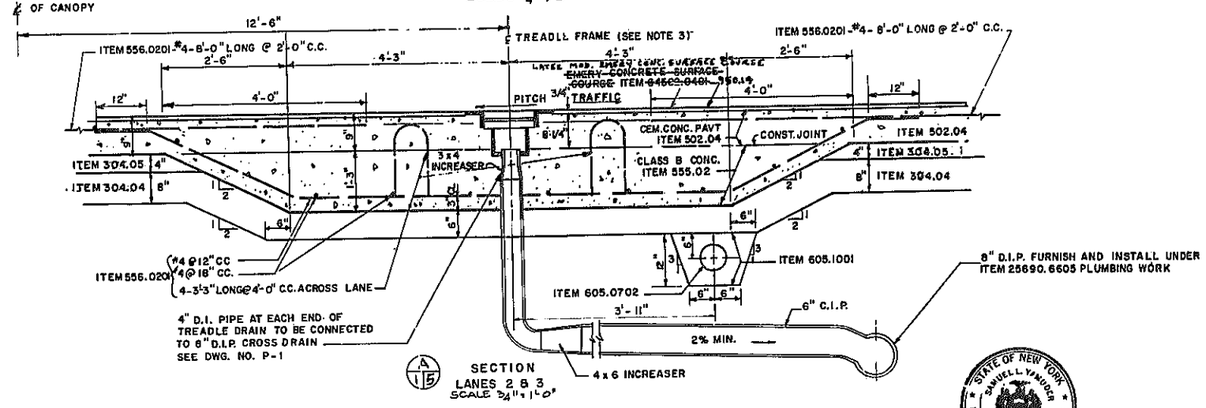
SECTION (D/15)
N.T.S.
WEST CANOPY SUPPORT COLUMN DRAIN (TYP.)



SECTION LANES 2 & 3 (B/15)
SCALE 3/4" = 1'-0"



SECTION (E/15)
N.T.S.
EAST CANOPY SUPPORT COLUMN DRAIN (TYP.)



SECTION LANES 2 & 3 (A/15)
SCALE 3/4" = 1'-0"

NOTES

1. FURNISH & INSTALL ALL TRENCH TREADLE AND CANOPY DRAINS UNDER ITEM 25690.6605, PLUMBING WORK
2. FURNISH & INSTALL ALL CONNECTIONS OF TRENCH DRAINS, TREADLE DRAINS, CANOPY DRAINS, 6" P.C.S.P UNDERDRAIN, TO 8 D.I.P. AND 24" R.C.P. CROSS DRAINS, UNDER ITEM 25690.6605. PLUMBING WORK - FOR DETAILS SEE DWG NO P-1
3. TREADLE FRAME FURNISHED & INSTALLED UNDER ITEM 25690.6342, FURNISH & INSTALL TOLL EQUIPMENT.
4. FOR ONE WAY LANES PITCH TREADLE FRAME 3/8" / FT RELATIVE TO PROFILE AND OPPOSITE TO TRAFFIC. FOR REVERSIBLE LANE SET TREADLE FRAME FLUSH WITH PROFILE
5. FOR CONTINUATION OF UNDERDRAIN SEE DWG NO. LP-3
6. THE 4" D.I.P. TO BE INCLUDED IN ITEM 25690.6342 FURNISH & INSTALL TOLL EQUIPMENT.

STATE OF NEW YORK · SAMUEL L. VENUDER · No. 052072 · LICENSED PROFESSIONAL ENGINEER

Prepared and recommended
Samuel L. Venuder Date 7/30/79
GOODKIND & O'DEA, INC.
Consulting Engineers

REVISIONS

TRENCH DRAIN & TREADLE FRAME INSTALLATION DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

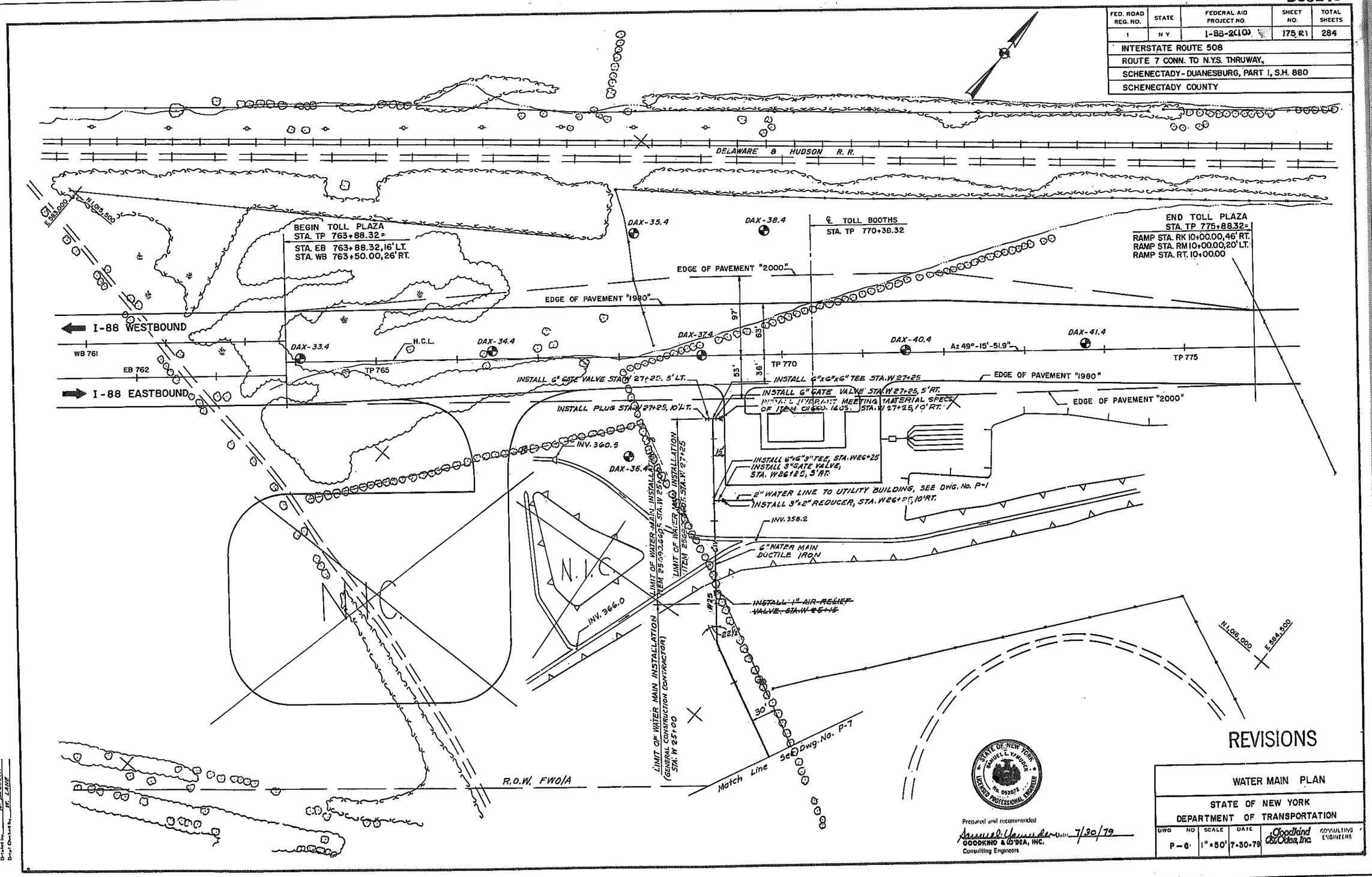
DWG. NO	SCALE	DATE		
P-5	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc.	CONSULTING ENGINEERS

In Charge of Z. KREUTZER
Designed by N. SPAVENTA
Design Checked by R. KREUTZER
Detailed by N. DA COSTA
Detail Checked by W. LANE

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N Y	I-88-2(10)	175 R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY,
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



REVISIONS

Prepared and recommended
Samuel L. Vanvender Date 7/30/79
GOODKIND & O'DEA, INC.
Consulting Engineers

STATE OF NEW YORK
SAMUEL L. VANVENDER
No. 052072
LICENSED PROFESSIONAL ENGINEER

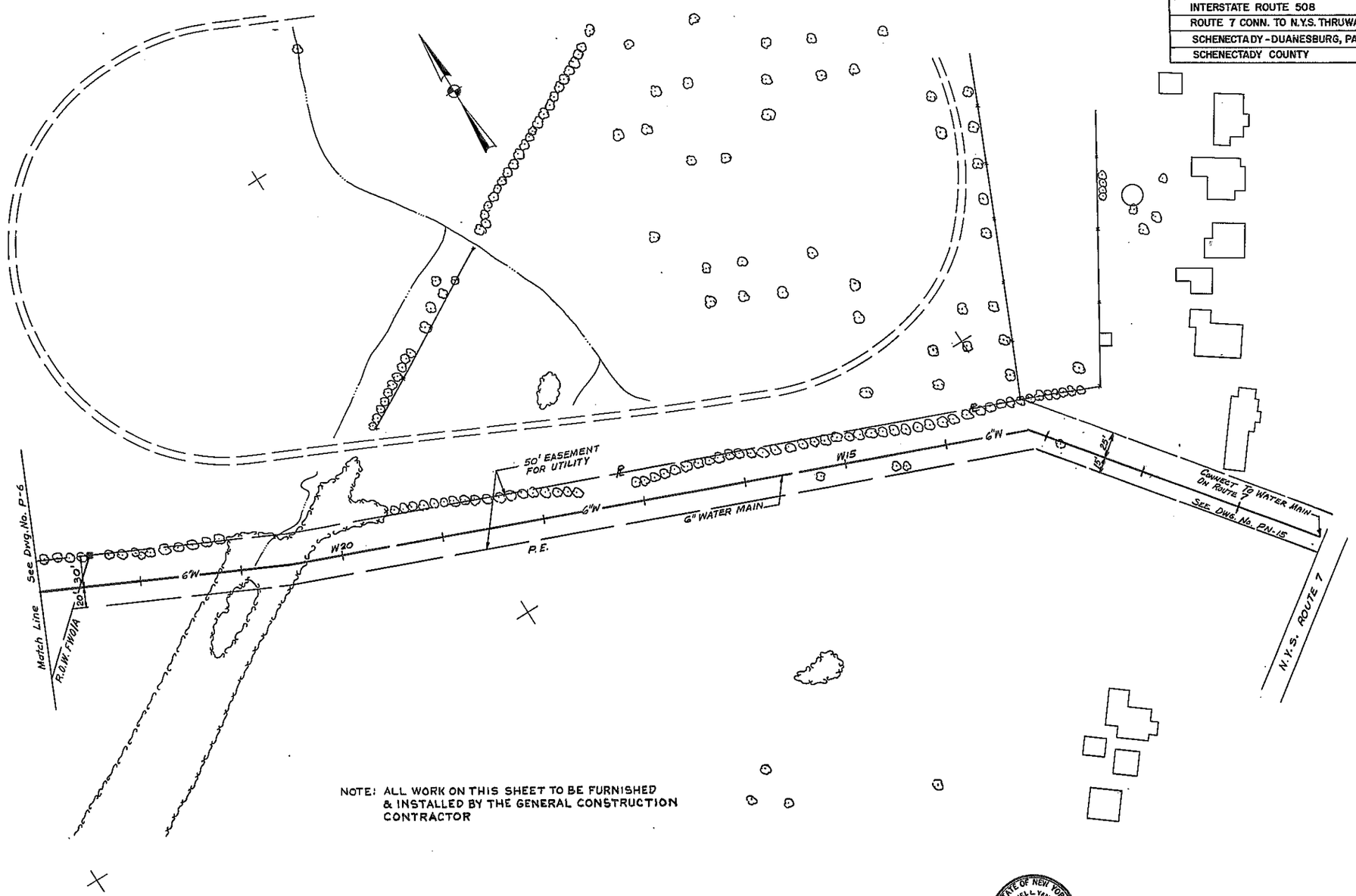
WATER MAIN PLAN			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
DWG NO	SCALE	DATE	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS
P-6	1" = 50'	7-30-79	

In Charge of R. HREUTZER
Designed by H. SPAVENTA
Drawn by R. HREUTZER
Checked by M. DeCOSTA
Date by W. LANE

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	176	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY,
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



NOTE: ALL WORK ON THIS SHEET TO BE FURNISHED & INSTALLED BY THE GENERAL CONSTRUCTION CONTRACTOR

STATE OF NEW YORK
SAMUEL L. VANNUCCI
No. 052072
LICENSED PROFESSIONAL ENGINEER

Prepared and recommended
Samuel L. Vannucci Date 7/30/79
GOODKIND & O'DEA, INC.
Consulting Engineers

In Charge of R. HREUZER
Designed by H. SPAVENTA
Designed Checked by R. HREUZER
Detailed by M. DE COSTA
Detail Checked by W. LAUE

WATER MAIN PLAN

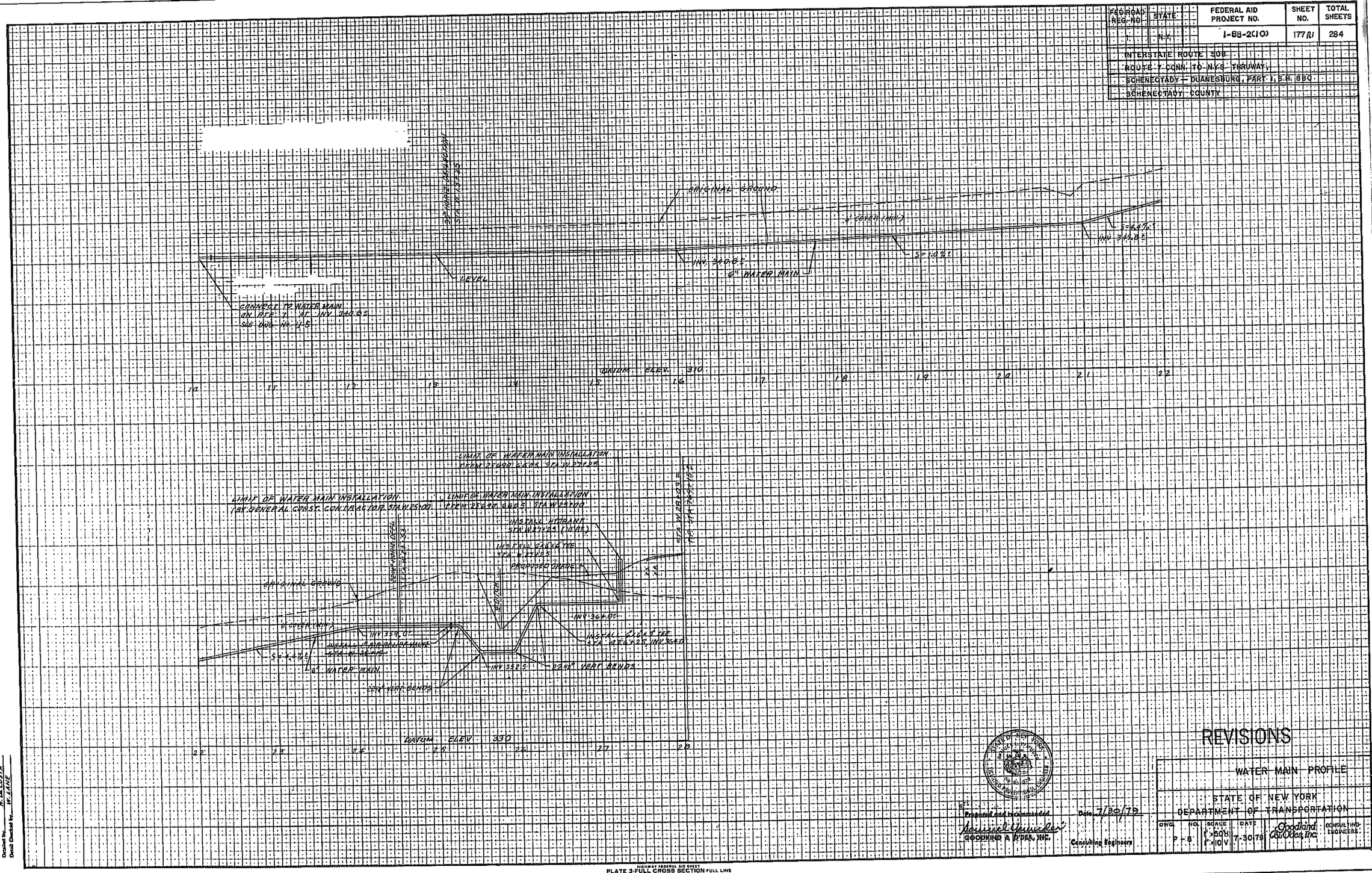
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DWG. NO.	SCALE	DATE	
P-7	1"=50'	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

D96243

FEDROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	I-88-2(10)	177 RI	284

INTERSTATE ROUTE 308
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY — DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



REVISIONS

WATER MAIN PROFILE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

Prepared and Recommended
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7/30/79

DWG. NO.	SCALE	DATE	CONSULTING ENGINEERS
P-8	1"=50' H 1"=10' V	7-30-79	Goodkind & O'Dea, Inc.

In Charge of R. KRUTTER
Designed by N. SPARKHUL
Design Checked by R. KRUTTER
Detailed by N. CARLTA
Detail Checked by W. LANE

HIGHWAY FEDERAL AID SHEET
PLATE 3-FULL CROSS SECTION-FULL LINE
WELDING POST
PRINTED IN U.S.A.

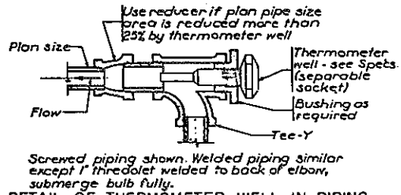
D96243

FED. RD. REG. NO	STATE	FEDERAL AID PROJECT NO	SHEET NO	TOTAL SHEETS
1	NEW YORK	I-88-2(10)	178	284

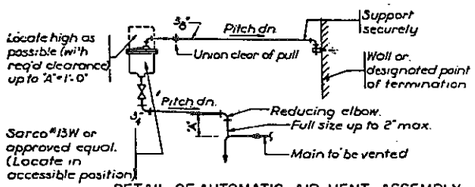
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

SYMBOLS AND ABBREVIATION

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
HWS	Hot Water Supply		Duct size, width × depth or diameter
HWR	Hot Water Return		Supply Air Duct
HWRR	Hot Water Reverse Return		Outside air Duct
FOR	Fuel Oil Return		Return or Exhaust Duct
FOS	Fuel Oil Supply		Automatic Damper
HV-1	Heating and Ventilating Unit No. 1		Splitter Damper
EF-1	Exhaust Fan No. 1		Manual Damper
P-1	Pump No 1		Direction of Air flow
			Fire Damper with access door
HC-1	Heating Coil No. 1		Elbow with turning vanes
VIV	Valve in Vertical		Air Scoop Branch; deflector
OAI	Outside Air Intake		Flexible Connection
FA	Free area at face of louver or damper		Air enters
	Reducer or increaser		Air leaves
	Check Valve		Air flow thru Door louver
	Globe Valve or Radiator Valve	TR	Top Register
	Gate Valve	TG	Top Grille
	Pressure Relief Valve	BR	Bottom Register
	Lubricated Plug Valve or Balancing Cock	WMS	Wire Mesh Screen
	Str.-thru Auto. Valve Assembly see detail		Drop in duct single line 45° or 90°
	3-way Auto Valve Assembly see detail		Duct single line
	Drain Valve, 3/4" min		Acoustical lining
	Strainer Assembly see detail	CD	Ceiling Diffuser and direction of blow
	Pressure Gage Assembly see detail	CR	Ceiling Register
	Thermometer	CFM or ℓ	Cubic feet per minute
	Thermostat	LWCO	Low Water Cut-off
	Direction of flow	DOR	Diesel Oil Return
	Union, screwed	DOS	Diesel Oil Supply
	Anchor		
	Pipe Guide		
V	Vent line		
	Automatic Air Vent Assembly see detail		
M	Manual Air Vent Assembly see detail		



DETAIL OF THERMOMETER WELL IN PIPING
Not to scale
SYMBOL: For location see specs.



DETAIL OF AUTOMATIC AIR VENT ASSEMBLY
Not to scale
SYMBOL:

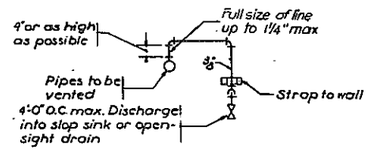
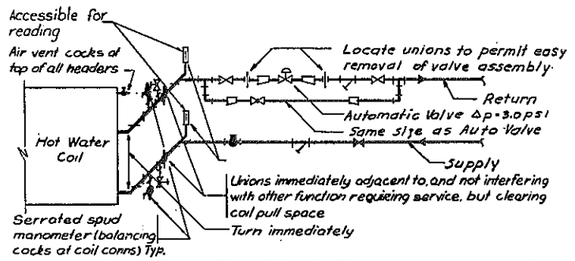
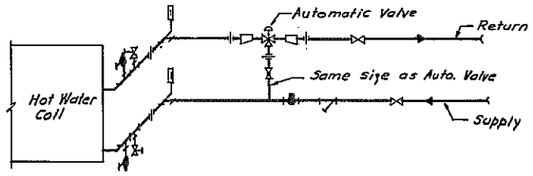


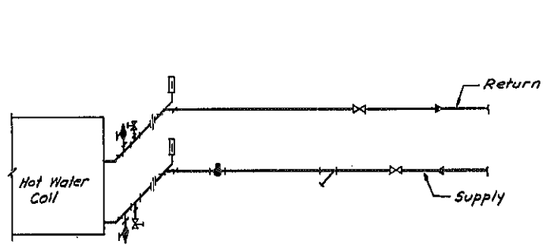
DIAGRAM OF MANUAL AIR VENT ASSEMBLY
Not to scale
SYMBOL:



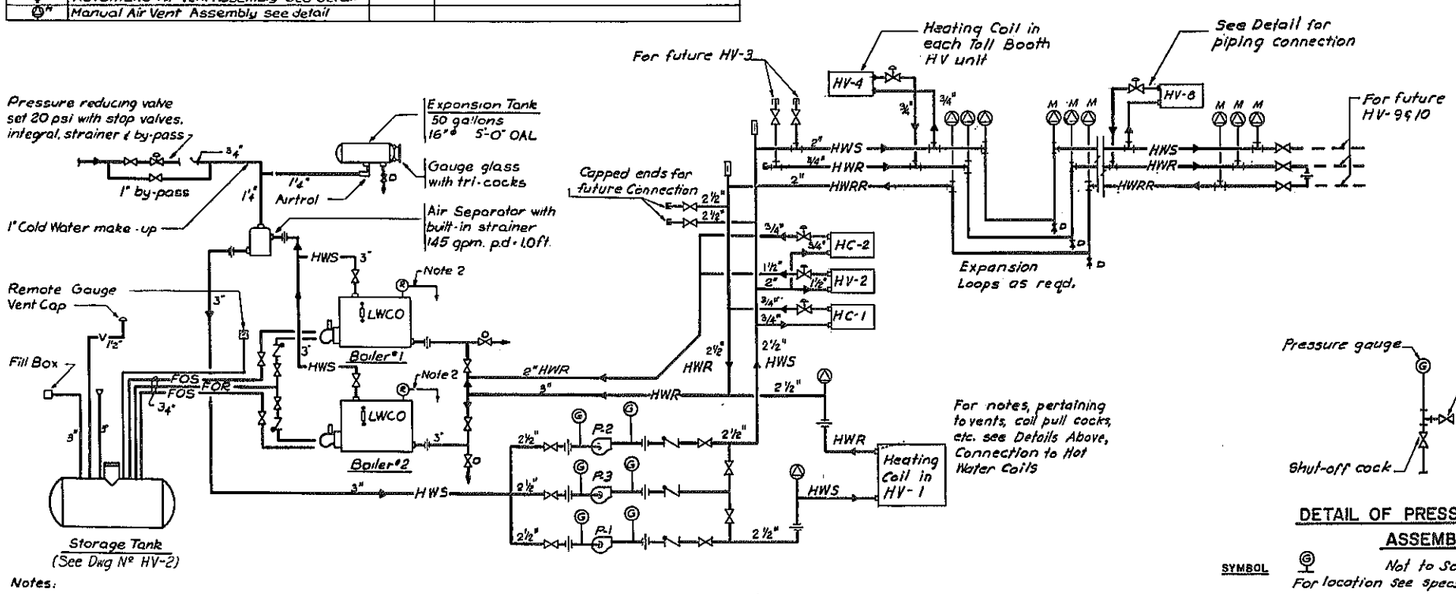
CONNECTIONS TO HOT WATER COILS HC-1 & HC-2
Not to scale



CONNECTIONS TO HOT WATER COILS HV-3 – HV-10

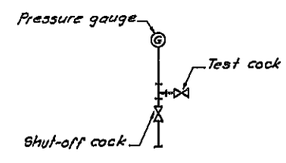


CONNECTIONS TO HOT WATER COILS HV-1 & HV-2



Notes:
1. For pipe sizes not indicated see Dwg No HV-2 & HV-4
2. Pipe discharge lines from relief valves to a safe location.

HEATING FLOW DIAGRAM
Not to Scale



DETAIL OF PRESSURE GAUGE ASSEMBLY
Not to Scale
SYMBOL
For location see specs.

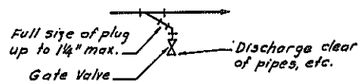


DIAGRAM OF STRAINER ASSEMBLY
Not to Scale
SYMBOL

Prepared and Recommended
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7/21/79

HEATING AND VENTILATING DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

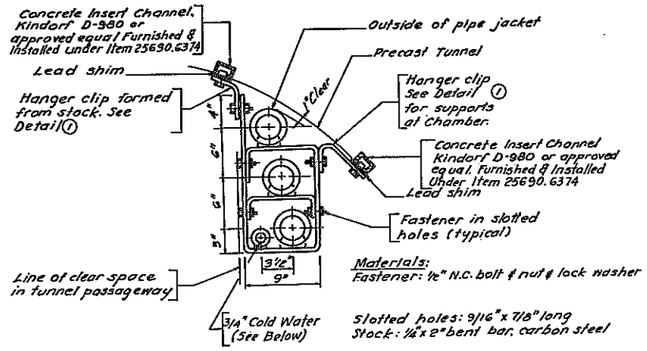
DWG. NO.	SCALE	DATE	CONSULTING ENGINEERS
HV-1	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc.

Designed by R. Rosenfeld
Made by R. K.
Traced by N. D.
Checked by N. S.

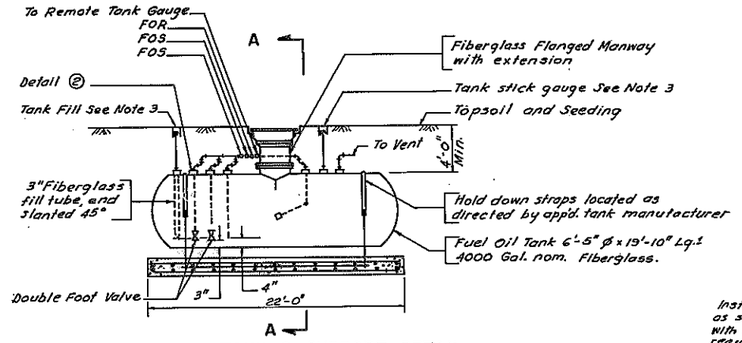
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	179	284

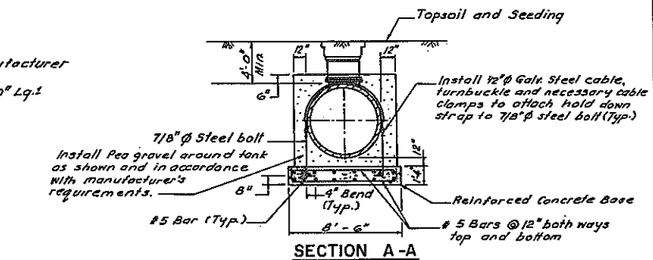
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



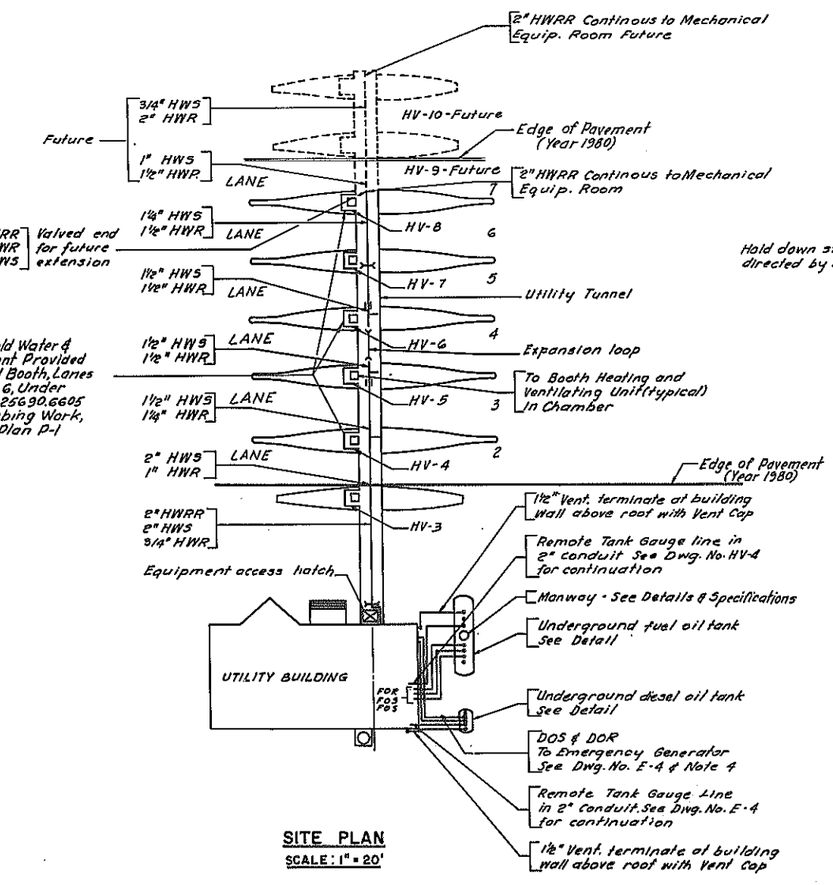
PIPE HANGERS IN TUNNEL
SCALE: 1½" = 1'-0"



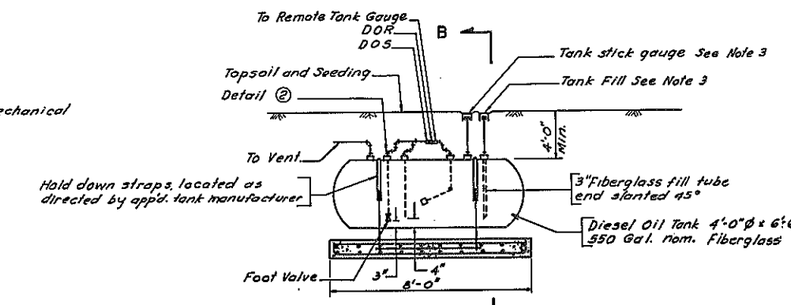
FUEL OIL TANK & SUPPORT DETAIL
N.T.S.



SECTION A-A
N.T.S.

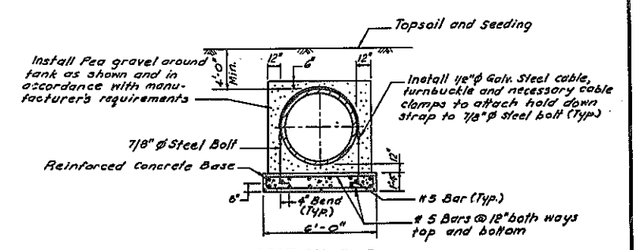


SITE PLAN
SCALE: 1" = 20'



DIESEL OIL TANK & SUPPORT DETAIL
N.T.S.

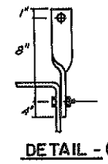
NOTE:
DIESEL OIL TANK TO BE FURNISHED AND INSTALLED UNDER ITEM 25690.6607 ELECTRICAL WORK



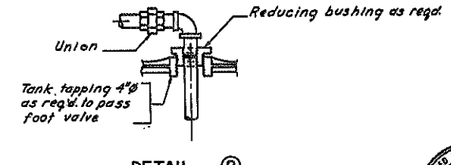
SECTION B-B
N.T.S.

NOTES:

1. SUPPORT PIPE EXPANSION LOOPS FROM BELOW WITH PIPE STANDS. FASTEN STANDS TO TUNNEL FLOOR 205/8"ø DRILLED IN EXPANSION ANCHORS.
2. ANCHOR PIPES TO CAST IN PLACE CONCRETE CONSTRUCTION ONLY WITH 1/2" THICK STEEL PLATE REINFORCED WITH 1/2" THICK COUNTERFORTS. FASTENERS SHALL BE 403/4"ø ANCHOR BOLTS. (NOT USED)
3. ALL PIPES TERMINATING AT GRADE SHALL BE PROTECTED BY FLUSH BOTTOMLESS BOXES WITH 2" TO 4" CLEARANCE BETWEEN THE TOP OF THE CAP AND BOTTOM OF FLUSH BOX COVER.
4. SIZE AND LOCATION OF DIESELOIL SUPPLY LINES TO EMERGENCY GENERATOR DIACRAMATIC ONLY. OBTAIN NECESSARY INFORMATION FROM APPROVED GENERATOR MANUFACTURER.



DETAIL - ①
HANGER CLIP AT CHAMBER
SCALE: 1½" = 1'-0"



DETAIL - ②
SUCTION TAPPING
SCALE: 1½" = 1'-0"

Prepared and Recommended
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7/30/79

SITE PLAN AND DETAILS
HEATING AND VENTILATING
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

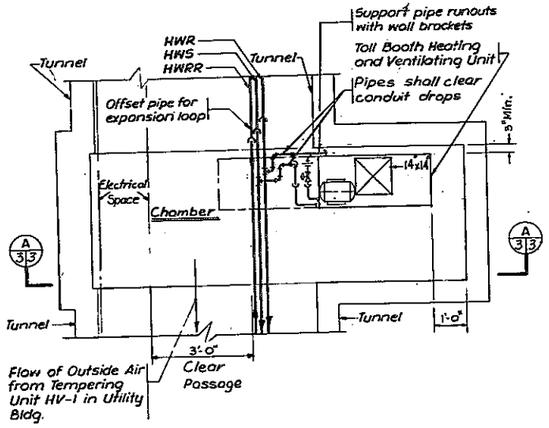
DWG. NO.	SCALE	DATE	
HV-2	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

In Charge of: R. KOBUTZER
Designed by: A. Kasacek
Design Checked by: R. KABUTZER
Detailed by: M. DA COSTA
Detail Checked by: M. LANE

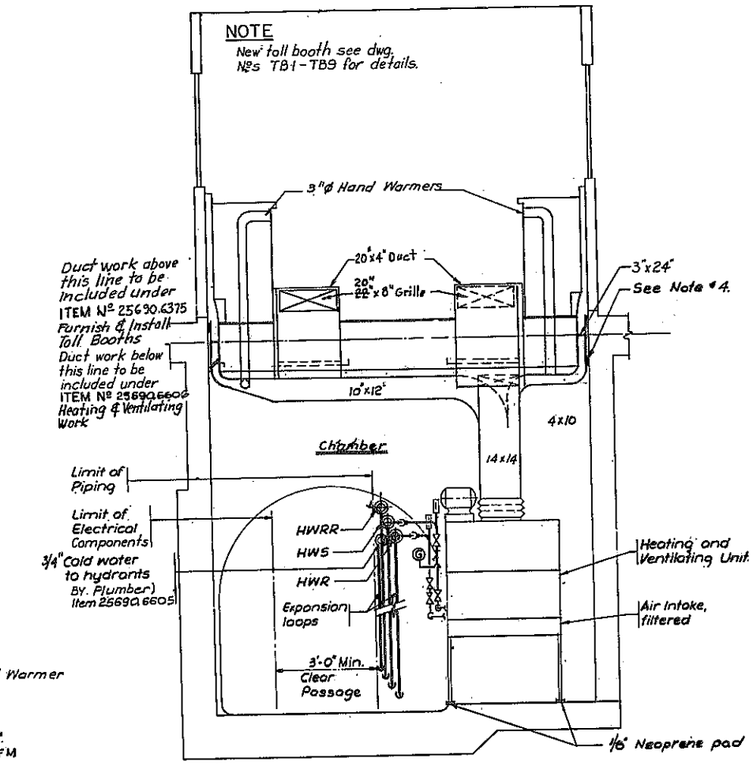
D96243

FED./RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	I-88-2(10)	180 R.1	284

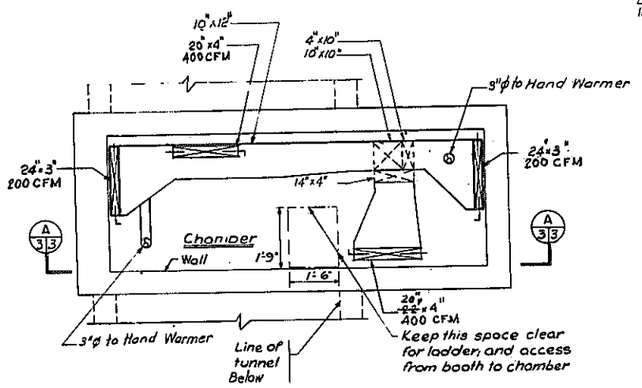
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY,
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



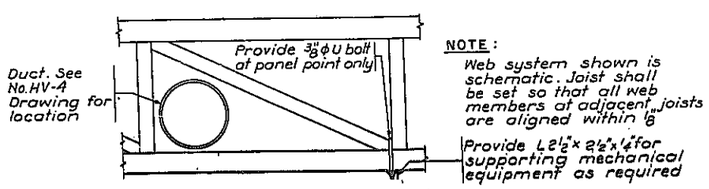
CHAMBER FLOOR PLAN
Scale: 1/2" = 1'-0"



SECTION A 3 3
Scale: 1/2" = 1'-0"



CHAMBER CEILING PLAN
Scale: 1/2" = 1'-0"



NOTE:
Web system shown is schematic. Joist shall be set so that all web members at adjacent joists are aligned within 1/8"

DETAIL FOR MECH. EQUIPMENT
N.T.S.

1. For symbols, piping, details, sizes and capacity of equipment see Dwg. HV-1 and Equipment Schedule.
2. For detail of pipe support in tunnel and chamber, see Dwg. HV-2
3. For location of expansion loops, see Dwg. HV-2
4. Support ducts from overhead angles 2 1/2" x 2 1/2" x 1/4". Support ducts adjacent to walls with brackets made from angles 2 1/2" x 2 1/2" x 1/4". Fasten angles to concrete with 1/4" drilled-in fasteners
5. Contractor shall submit shop drawings of all duct work for approval.

EQUIPMENT SCHEDULE

BOILER SCHEDULE (Typical for 2)

Gross Input = 10.25 gph no. 2. oil = 1435 mbh
Gross Output = 1166 mbh
Net IBR Output = 1014 mbh

HEATING AND VENTILATING UNIT SCHEDULE

Unit No.	Total CFM	ESP "H_2O	Blower HP	Ent'g Air	Leav'g Air	Heating MBH**		Face & Bypass
HV-1	9600	0.75	5	-5°F	65°F	725		Yes
HV-2	3100	1.00	1-1/2	-5°F	80°F	285		Yes
HV-3*	1200	0.75	1/2	60°F	100°F	52		No

* Typical for each booth
** At 180°F entering water temperature

HEATING COIL SCHEDULE

Unit No.	Total CFM	Ent'g Air	Leav'g Air	Heating MBH	Max. Face Velocity	
HC-1	250	70°F	125°F	14.9	800	
HC-2	400	70°f	90°F	8.6	800	

PUMP SCHEDULE

Unit No.	Total GPM	Total Head	Motor HP		Item Served
P-1	72.5	30'	1 HP		HV 1
P-2	72.5	30'	1 HP		HV 2 - HV 10, HC 1 & HC 2
P-3	72.5	30'	1 HP		Standby

EXHAUST FAN SCHEDULE

Unit No.	Total CFM	SP "H_2O	Motor HP	Max Sones		Items Served
EF-1	2,800	1/2	1/2	8		HV 2
EF-2	250	1/2	1/12	5		Toilet
EF-3	400	1/4	1/12	5		Kitchenette
EF-4	700	1/4	1/8	5		Supervisor
EF-5	8,000	1/8	3/4	8		Em. Gen.

Prepared and recommended
Goodkind & O'Dea, INC.
Consulting Engineers
Date 7/27/79

REVISIONS

TOLL BOOTHS
HEATING AND VENTILATION
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

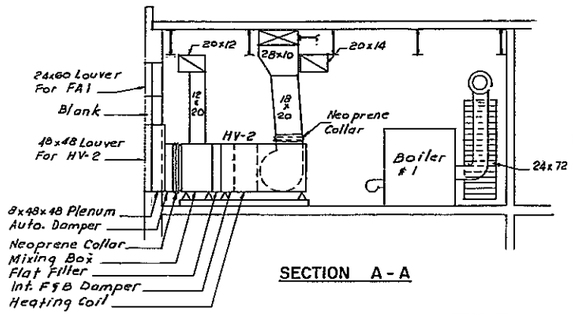
DWG. NO.	SCALE	DATE		
HV-3	1/2" = 1'-0"	7-30-79	Goodkind & O'Dea, Inc.	CONSULTING ENGINEERS

Designed by R. Kreutzer
Made by R. Kreutzer
Traced by R. DeCosta
Checked by R. Lane

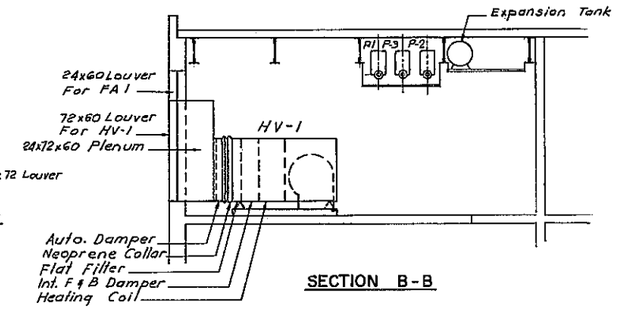
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	181	284

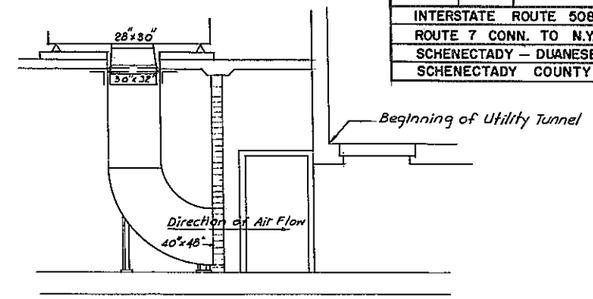
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY — DUANESBURG, PART, I S.H. 880
SCHENECTADY COUNTY



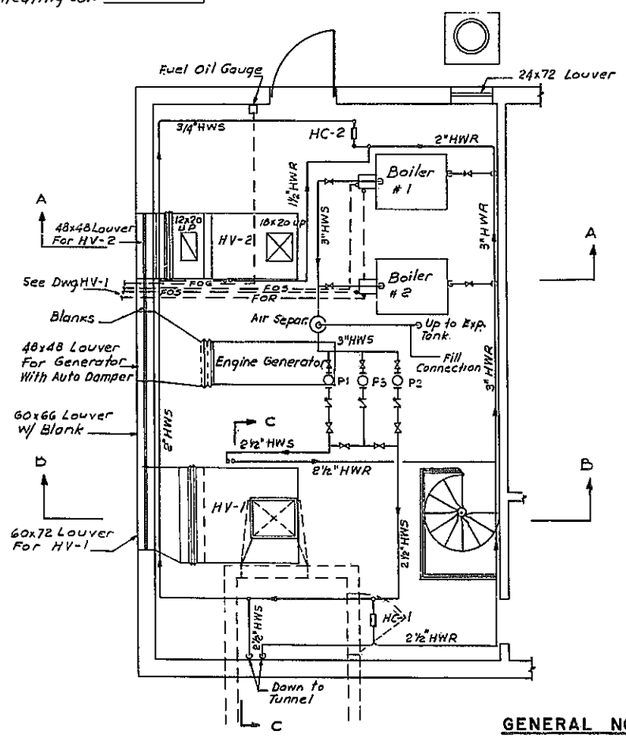
SECTION A-A



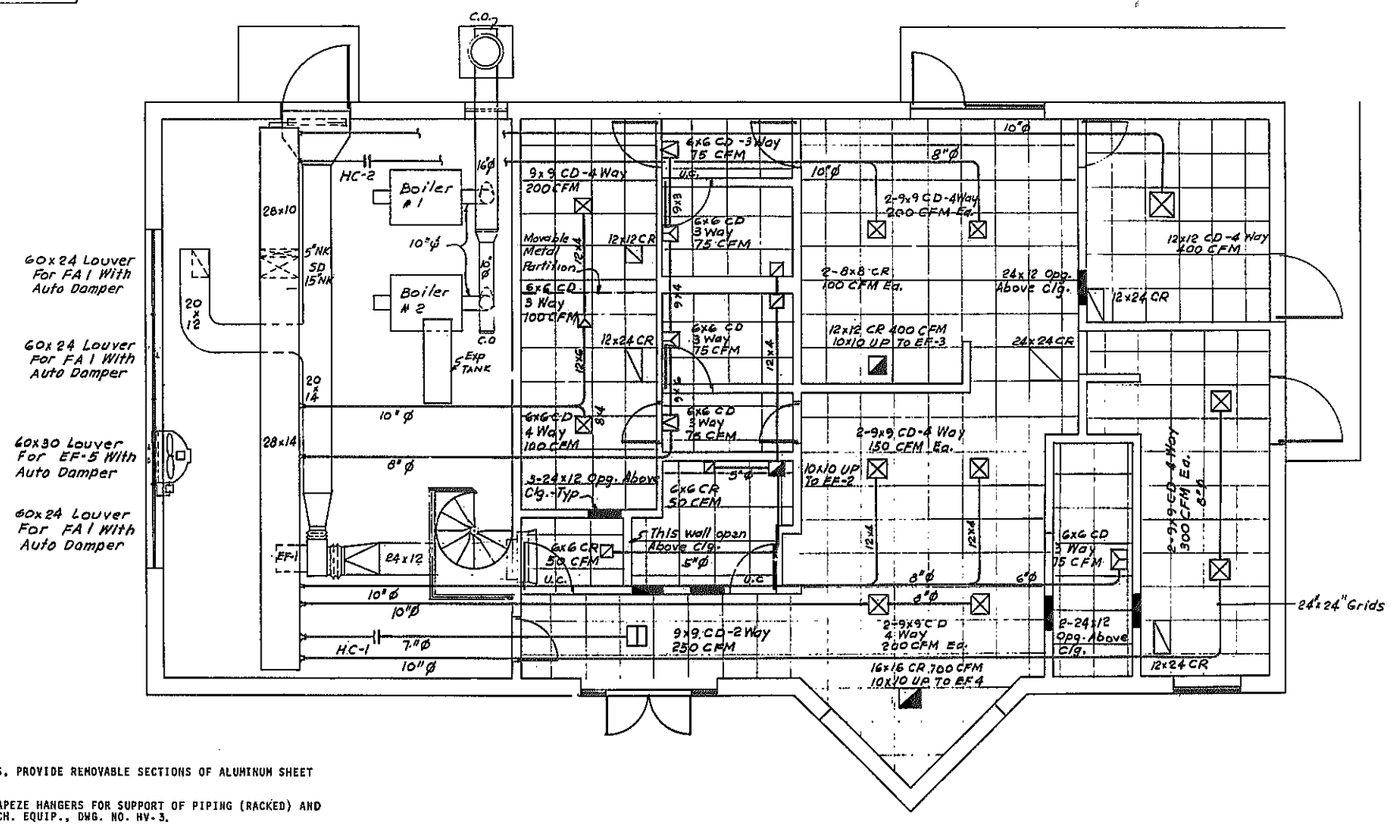
SECTION B-B



SECTION C-C



PART FLOOR PLAN



CEILING PLAN

GENERAL NOTES

1. AT UNUSED SECTIONS OF LOUVERS, PROVIDE REMOVABLE SECTIONS OF ALUMINUM SHEET METAL SAFING.
2. FOR METHODS OF CONNECTING TRAPEZE HANGERS FOR SUPPORT OF PIPING (RACKED) AND EQUIPMENT, SEE DETAIL FOR MECH. EQUIP., DWG. NO. HV-3.
3. ALL ROUND DUCTS SHALL RUN IN OPEN SPACE THRU JOIST CONSTRUCTION. SEE DETAIL FOR MECH. EQUIP., DWG. NO. HV-3.
4. FOR SYMBOLS, PIPING, DIAGRAMS AND CAPACITY OF EQUIPMENT SEE DWGS. HV-1 & 3.
5. CONTRACTOR TO SUBMIT SHOP DRAWINGS OF ALL COMPONENTS FOR APPROVAL.
6. SEE REFLECTED CEILING PLAN. DRAWING A-8 FOR LOCATION OF REGISTERS IN CEILING.

R. KREUTZER
In Charge of A. Rosenberg
Designed by
Design Checked by N. SPAVENTA
Detailed by N. DECOSTA
Detail Checked by W. LANE

LICENSED PROFESSIONAL ENGINEER WILLIAM ROSS FIELD LIC. NO. 43133 STATE OF NEW YORK

Prepared and recommended
Goodkind & O'Dea, Inc.
Consulting Engineers
Date 7/27/79

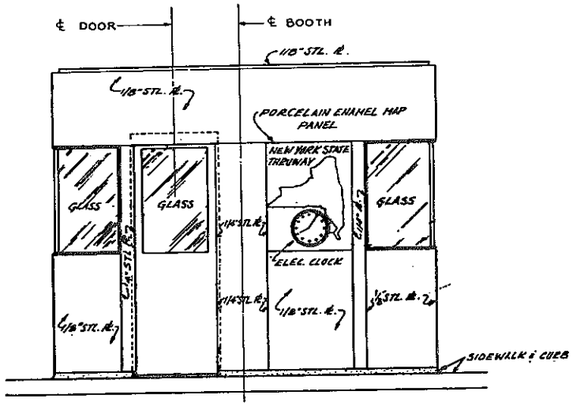
UTILITY BUILDING
HEATING AND VENTILATING

DWG. NO.	SCALE	DATE	
HV-4	1/4"=1'-0"	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

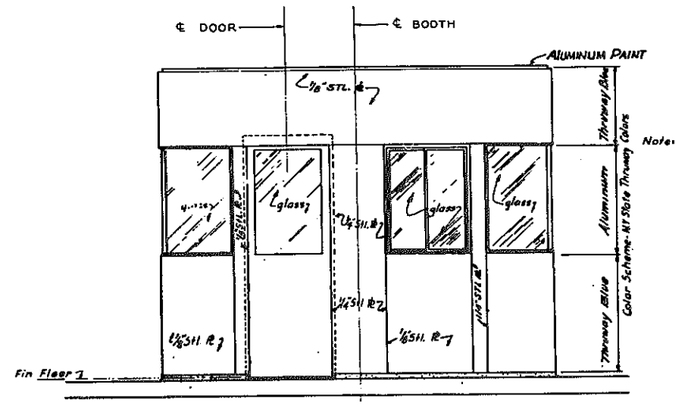
D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	I-88-2(10)	182 (2)	284

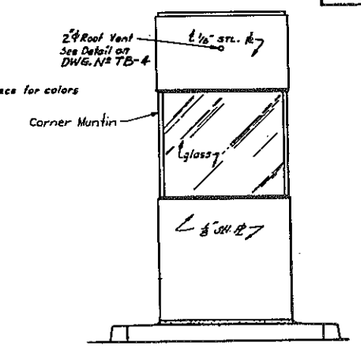
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



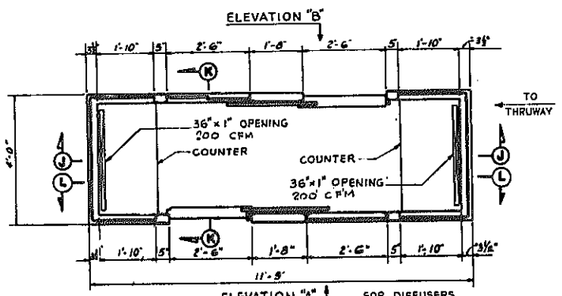
ELEVATION "A"



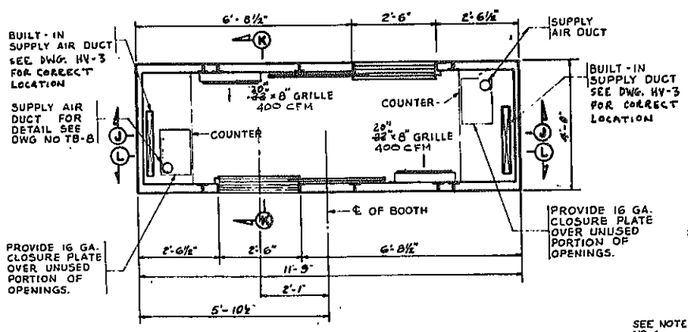
ELEVATION "B"



END ELEVATION

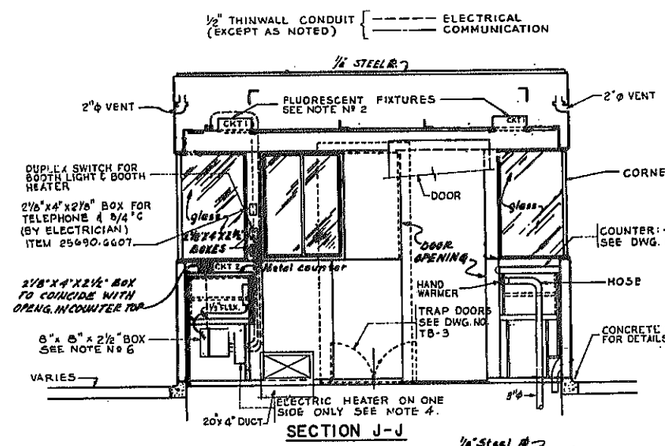


PLAN OF BOOTH AT WINDOWS

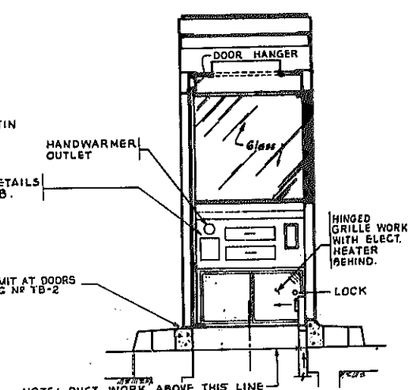


PLAN OF BOOTH BELOW WINDOWS

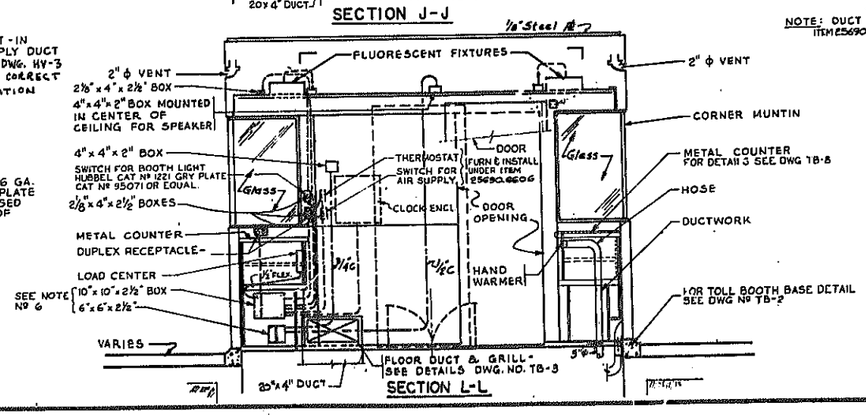
FOR OPENINGS AT FLOOR LEVEL SEE DWG. NO. TB-3 PLAN OF BOOTH BELOW WINDOWS.



SECTION J-J



SECTION K-K



SECTION L-L

NOTES:

1. ELEVATIONS OF TOLL BOOTH SHOWN PRIOR TO APPLICATIONS OF PORCELAIN ENAMEL PANELS.
2. BOOTH CEILING FIXTURE, SHALL BE RECESSED FLUORESCENT, W/ EDGE DETAIL APPROPRIATE FOR CEILING, 4-20W. COOL WHITE LAMPS PER FIXTURE. *WITH RADIO INTERFERENCE SUPPRESSORS.*
3. FLEXIBLE METALIC CONDUIT SHALL BE WATERPROOF TYPE
4. *ELECTRIC HEATER, 2KW-208 V, 1 PHASE WITHOUT* FRONT GRILL, GASKET & RETAINING FRAME. HEATER SHALL BE POSITIONED SO THAT CONTROL KNOB & PUSH BUTTONS PROTRUDE THE NORMAL DISTANCE FROM FACE OF STAINLESS GRILL OF COUNTER WHICH SHALL BE PROVIDED WITH NECESSARY CUTOUT.
5. ALL WORK ON THIS SHEET TO BE DONE UNDER ITEM 25690.6575 FURNISH & INSTALL TOLL BOOTHS EXCEPT AS NOTED
6. COVERS FOR 10"ϕ, 8"ϕ & 6"ϕ BOXES TO BE SEGMENTED & HINGED SO THAT CONDUITS MAY BE TERMINATED ON THE 3" FIXED STRIP WITH ACCESS TO WIRING FROM REMAINDER OF COVER.

REVISIONS

TYPICAL DOUBLE BOOTH

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

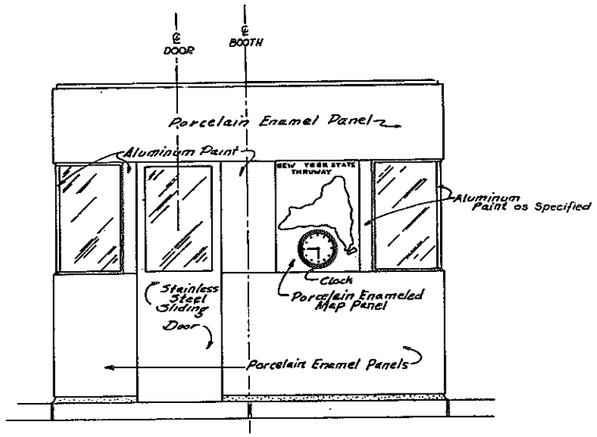
DWG. NO.	SCALE	DATE	Goodland & Odea, Inc. CONSULTING ENGINEERS
TB-1	1/2"=1'-0"	7-30-79	

Designed by N. SAVENTA
Made by R. HAEUTZER
Traced by N. DAGATA
Checked by W. LANE

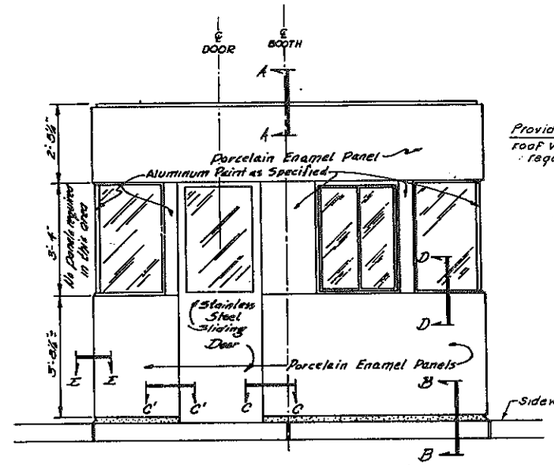
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	183	284

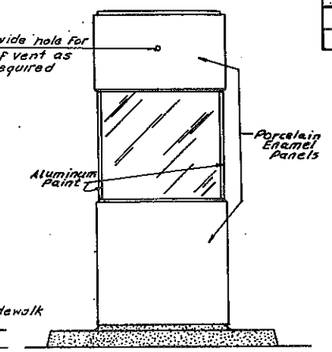
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



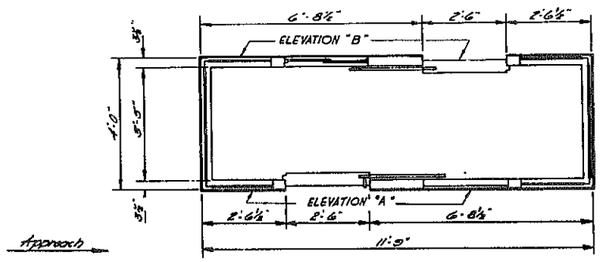
EXIT LANE ELEVATION
SCALE 1/2" = 1'-0"



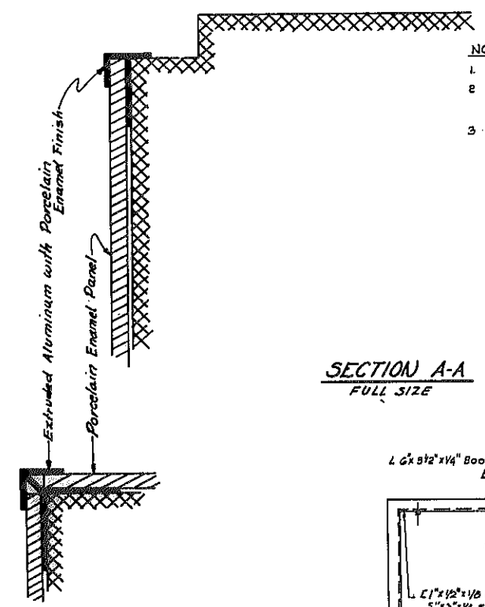
ENTRANCE LANE ELEVATION
SCALE 1/2" = 1'-0"



END ELEVATION
SCALE 1/2" = 1'-0"



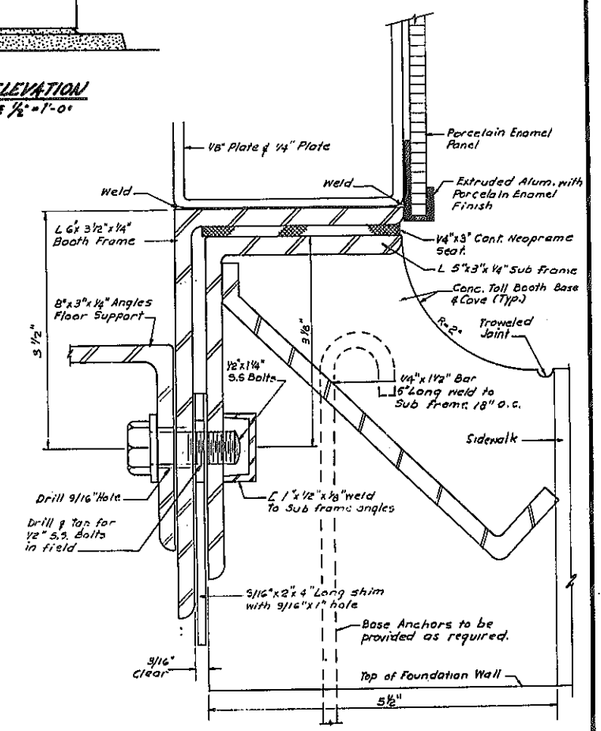
PLAN OF BOOTH AT WINDOWS
SCALE 1/2" = 1'-0"



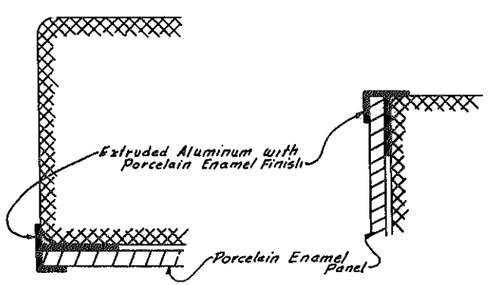
SECTION A-A
FULL SIZE

NOTES:

1. SEE DWG. No. TB-1 FOR GENERAL NOTES.
2. ALL WORK ON THIS SHEET TO BE DONE UNDER ITEM 25690.6375 FURNISH & INSTALL BOOTHS.
3. SUB FRAME ASSEMBLY TO BE FURNISHED UNDER ITEM 25690.6375 "FURNISH AND INSTALL TOLL BOOTHS" AND INSTALLED UNDER ITEM 25690.6374 TOLL UTILITY BUILDING, ISLANDS, CANOPY AND RELATED WORK.



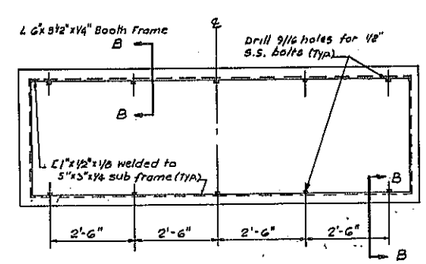
TOLL BOOTH BASE & COVE
SECTION B-B
FULL SIZE



SECTION C-C
SECTION C'-C
(Opposite Hand)
FULL SIZE

SECTION D-D
FULL SIZE

SECTION E-E
FULL SIZE



PLAN OF DOUBLE BOOTH FRAME AND SUB FRAME

PORCELAINIZED PANEL & TRIM

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

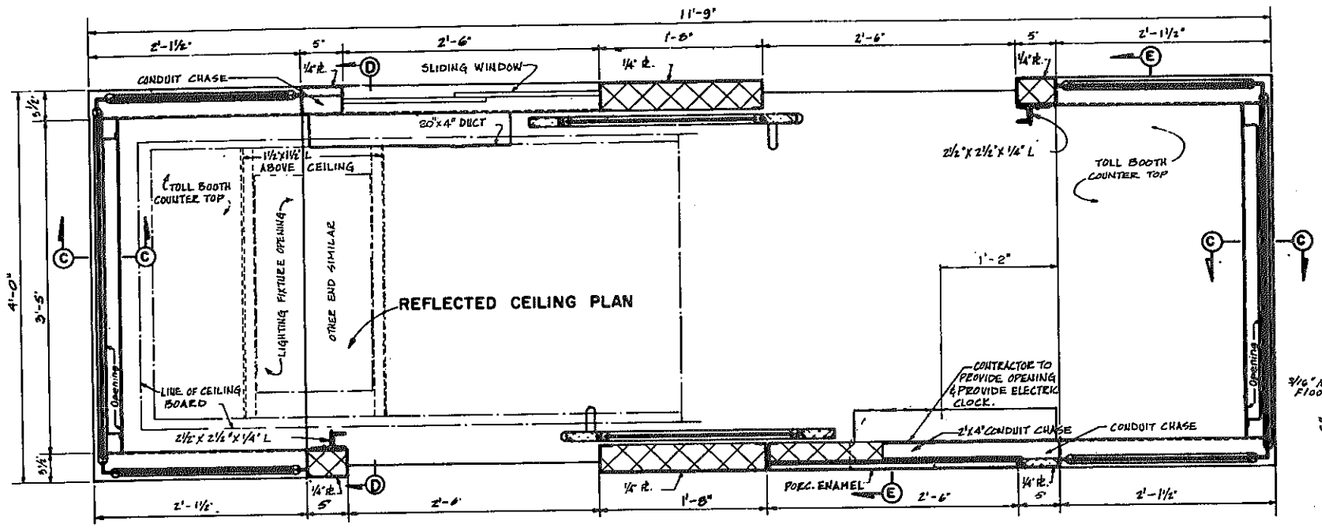
DWG. NO.	SCALE	DATE	CONSULTING ENGINEERS
TB-2	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc.

Designed by R. HREFUTZER
Made by N. SPAVENTA
Traced by M. DaCOSTA
Checked by W. LANE

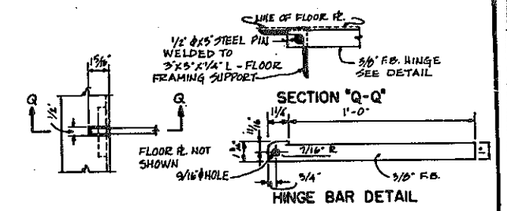
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	184R1	284

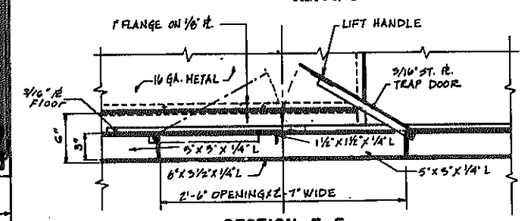
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



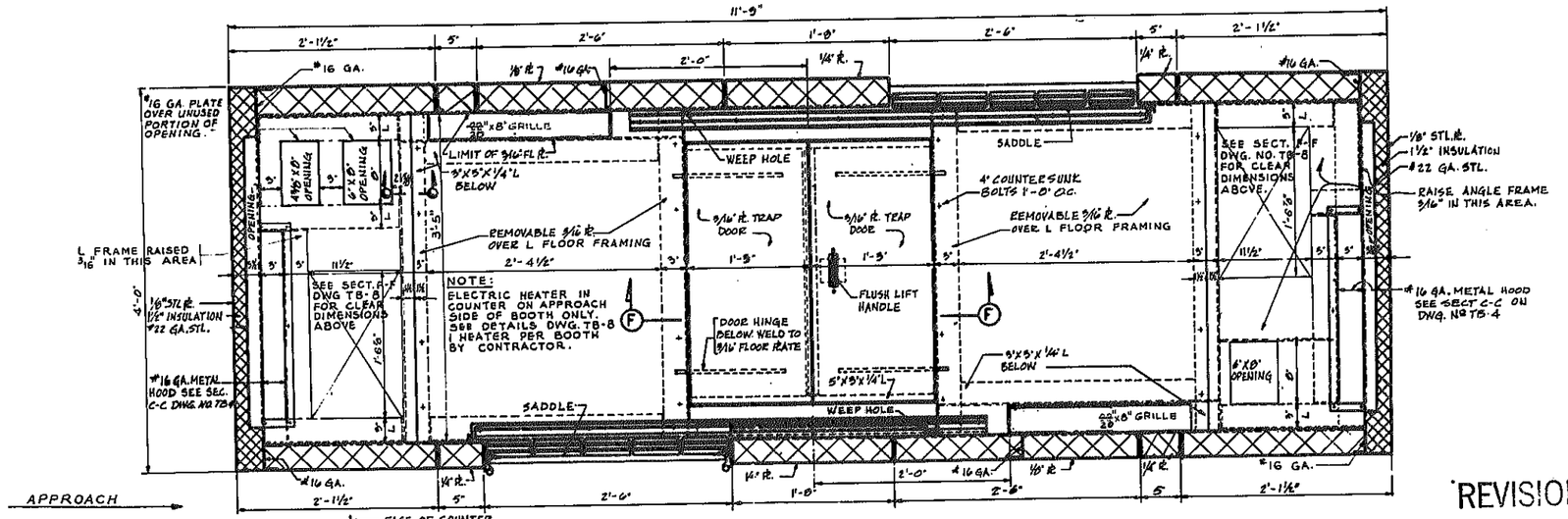
PLAN OF BOOTH THRU WINDOWS
Scale: 1½"=1'-0"



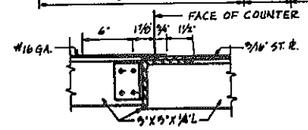
HINGE DETAILS
Scale: 3"=1'-0"



SECTION F-F
Scale: 1½"=1'-0"



PLAN OF BOOTH BELOW WINDOWS
Scale: 1½"=1'-0"



SECTION L-L

NOTE:
1. FOR SECTIONS C-C, D-D & E-E SEE DWG. NO TB-4
2. ALL NO. 16 GAGE STEEL STIFFENERS IN EXTERIOR BOOTH WALLS SHALL HAVE 2" WIDE INTERIOR LEGS.
3. ELECTRICAL CONDUIT AND/OR WIRING IN BOOTH WALLS NOT SHOWN ON THIS SHEET. FOR LOCATIONS OF ELECTRICAL BOXES & CONDUIT SEE DRAWING NO. TB-1.
4. FOR CONDUIT CHASES, SEE SECTION C-C & D-D ON DWG. NO. TB-4.
5. FOR GENERAL NOTES SEE DWG NO TB-1.
6. ALL WORK ON THIS SHEET TO BE DONE UNDER ITEM 25690.0375, FURNISH & INSTALL TOLL BOOTHS

REVISIONS

DETAIL PLANS OF DOUBLE BOOTHS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

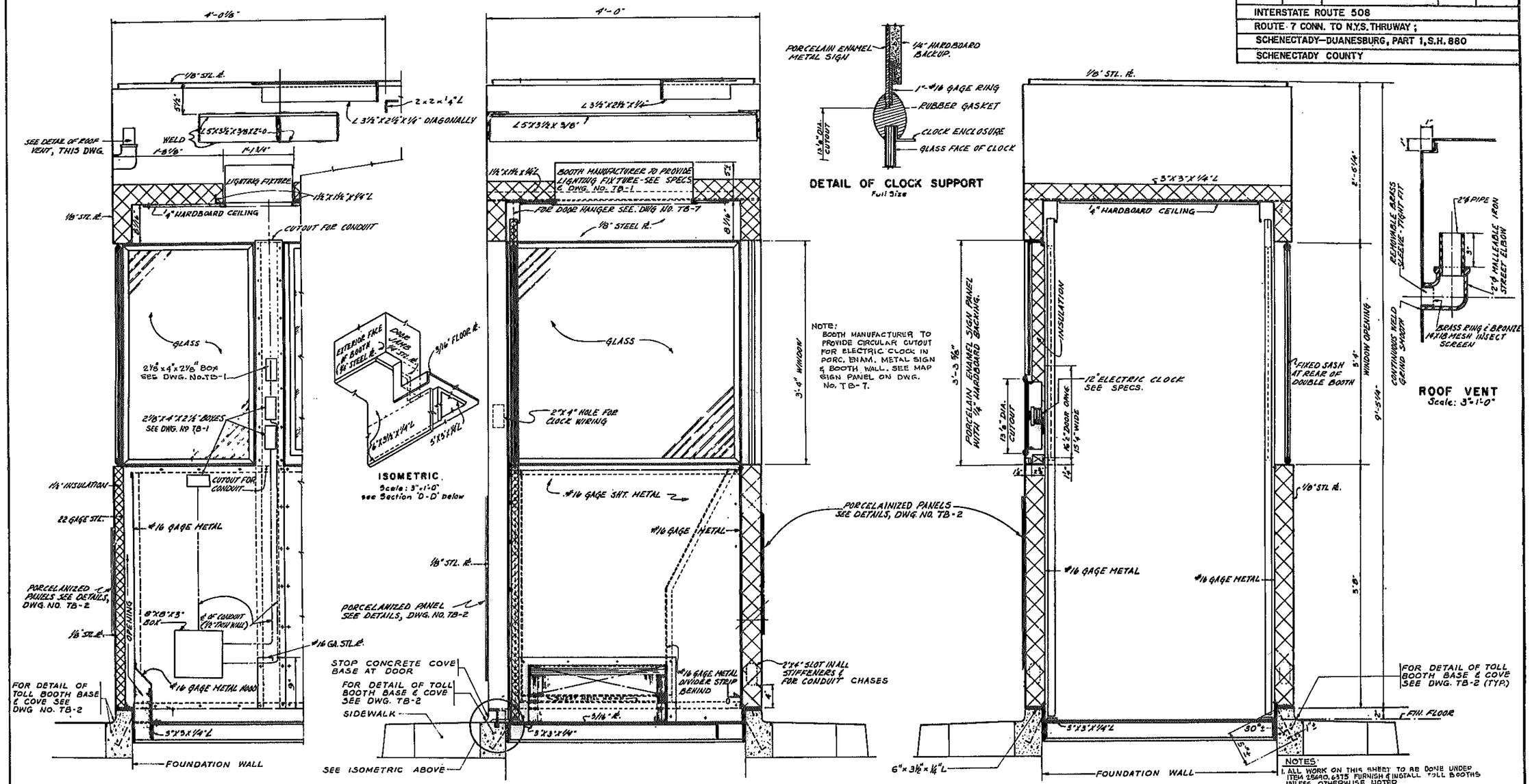
DWG. NO.	SCALE	DATE	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS
TB-3	AS SHOWN	7-30-79	

Designed by P. HEUTZER
Made by N. SPAVENTA
Traced by N. DA COSTA
Checked by M. LANE

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	185	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



NOTES:
1. ALL WORK ON THIS SHEET TO BE DONE UNDER ITEM 25640.6375 FURNISH & INSTALL TOLL BOOTHS UNLESS OTHERWISE NOTED
2. SEE DWG. No. TB-1 FOR GENERAL NOTES.

Designed by B. KREUTZER
Made by N. SPAVENTA
Traced by W. LANE
Checked by N. DACOSTA

TOLL BOOTH DETAIL
SECTIONS

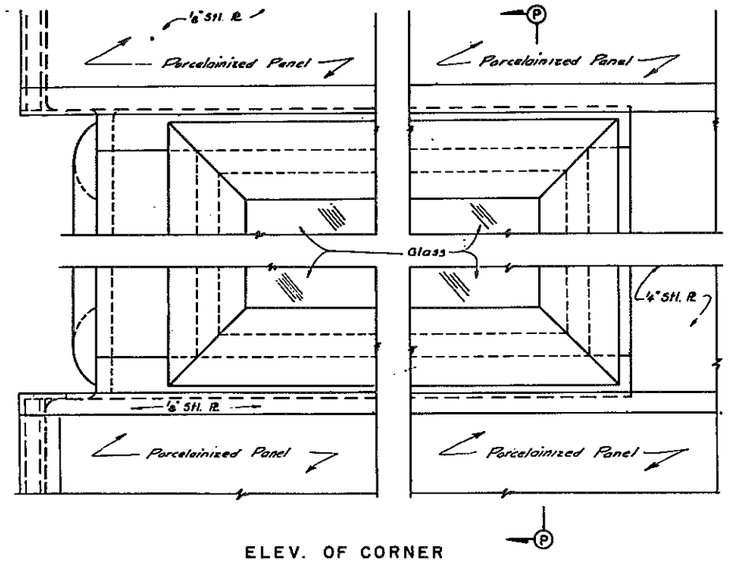
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DWG. NO.	SCALE	DATE	
TB-4	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

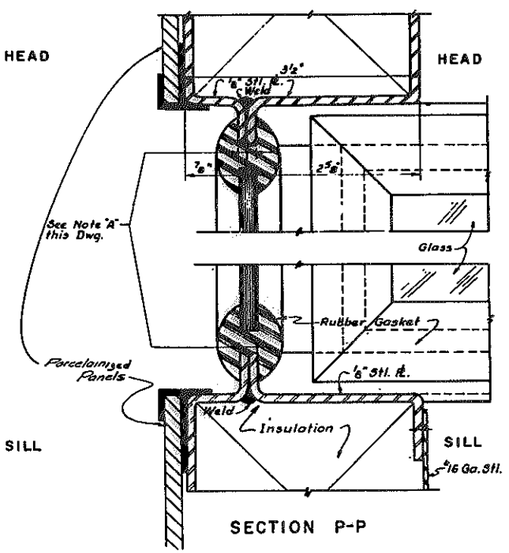
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	186	284

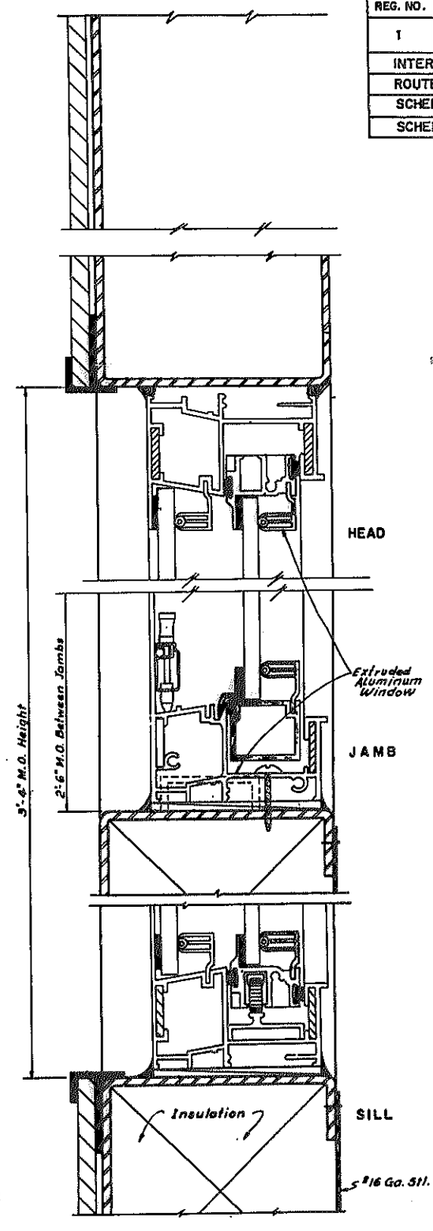
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



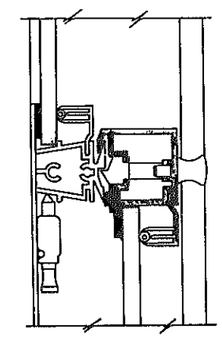
ELEV. OF CORNER
WINDOW OF TOLL BOOTH



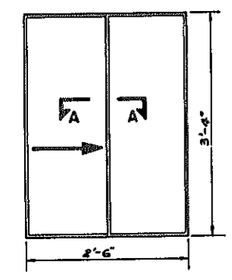
SECTION P-P



DETAIL OF SLIDING
WINDOW OF TOLL BOOTH
Full Size

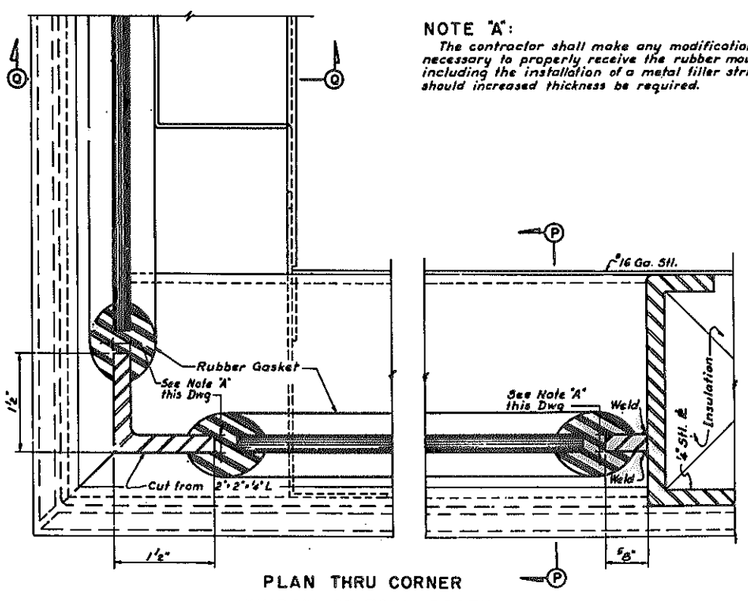


SECTION A-A

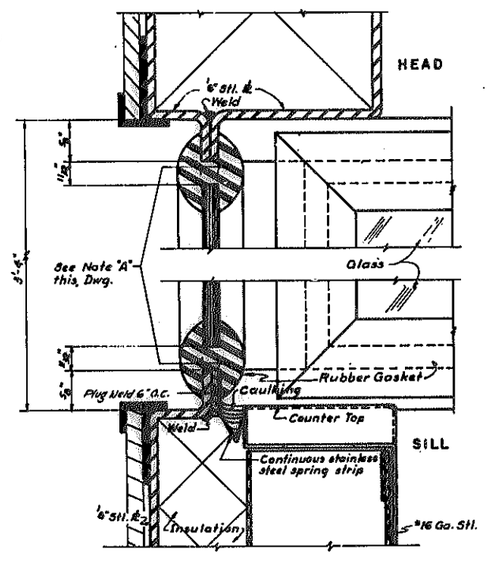


ELEVATION OF
SLIDING WINDOW

NOTE "A":
The contractor shall make any modifications necessary to properly receive the rubber moulding; including the installation of a metal filler strip should increased thickness be required.



PLAN THRU CORNER
WINDOW OF TOLL BOOTH
Full Size



SECTION Q-Q
Full Size

NOTE:
1. ALL WORK ON THIS SHEET TO BE DONE UNDER ITEM 25690.6375 FURNISH & INSTALL TOLL BOOTHS
2. SEE DWG. No. TB-1 FOR GENERAL NOTES.

TOLL BOOTH WINDOW DETAIL

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

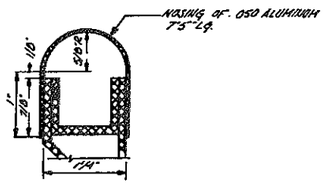
DWG. NO.	SCALE	DATE		
TB-5	AS SHOWN	7-30-79	Goodkind & Olden, Inc.	CONSULTING ENGINEERS

Designed by R. KREUTZER
Made by H. SPAVENTA
Traced by W. LANE
Checked by H. Da COSTA

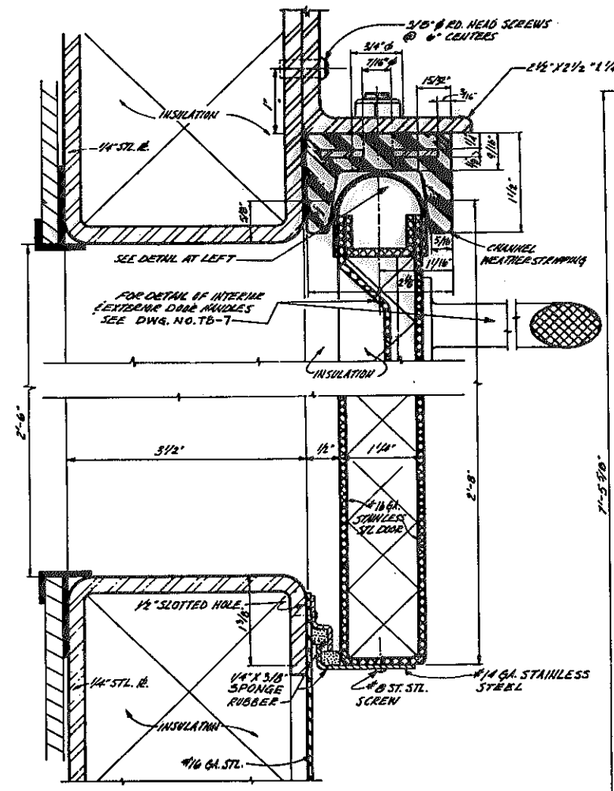
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	187	284

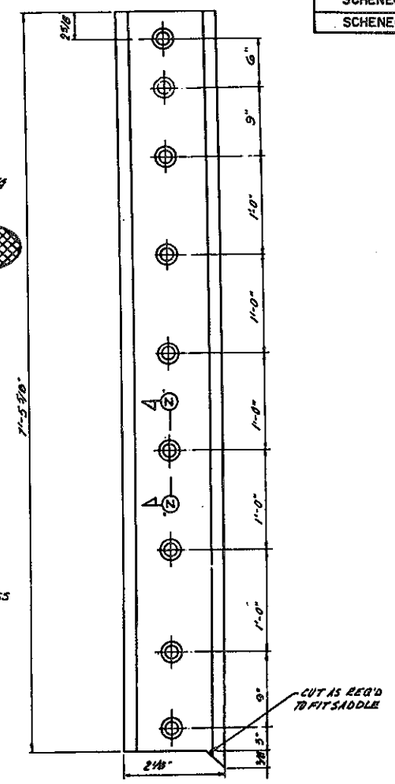
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



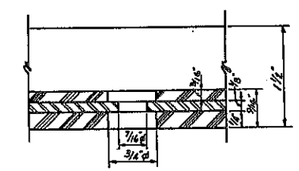
DETAIL OF DOOR NOSING



DOOR JAMB
SCALE: FULL SIZE

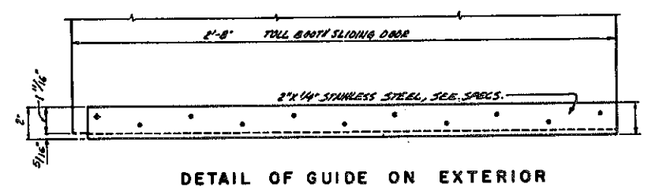


ELEV. OF CHANNEL WEATHER STRIPPING
Not to Scale



SECTION "Z-Z"
Scale: Full Size

DETAILS FOR WEATHER STRIPPING OF ALL SLIDING DOORS



DETAIL OF GUIDE ON EXTERIOR OF TOLL BOOTH SLIDING DOOR,
SCALE 3"=1'-0"

NOTES:
1. SEE DWG. NO. TB-1 FOR GENERAL NOTES.
2. ALL WORK ON THIS SHEET TO BE DONE UNDER ITEM 25690.6375 FURNISH & INSTALL TOLL BOOTHS

TOLL BOOTH SLIDING DOOR CATCH AND GUIDE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

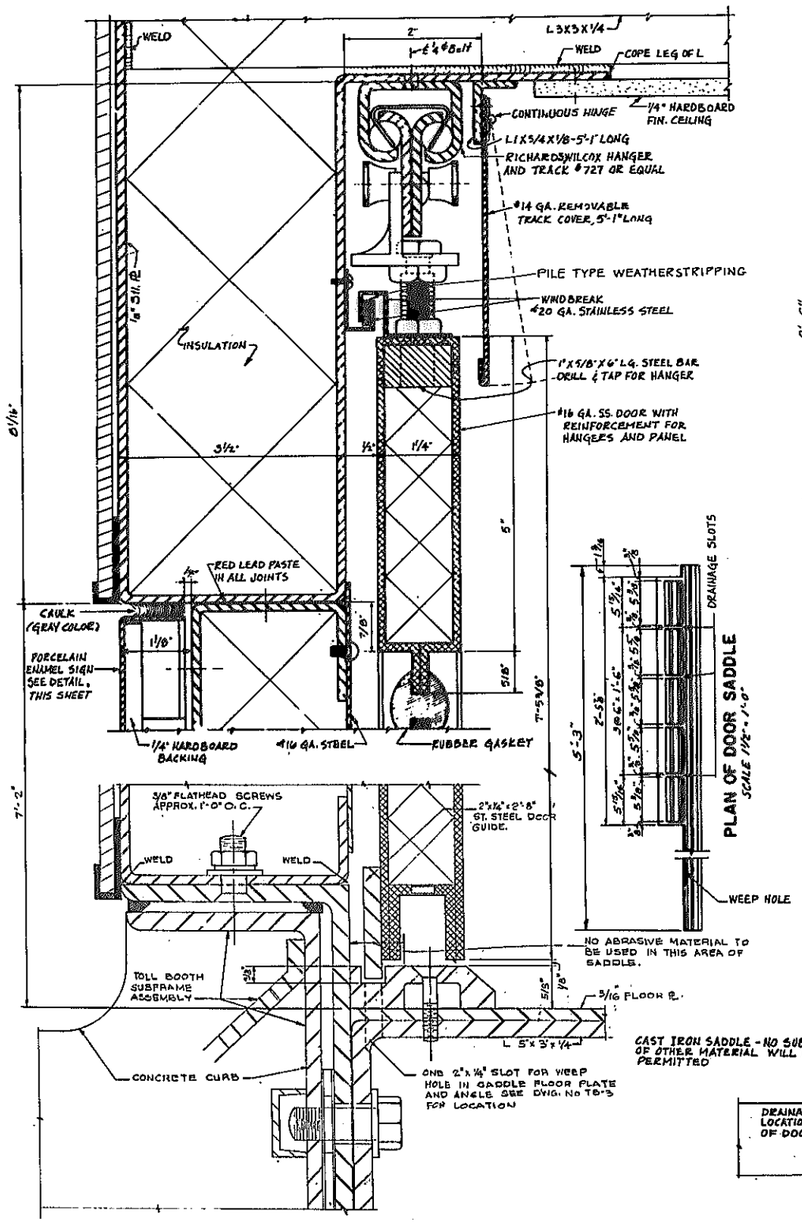
DWG. NO.	SCALE	DATE	
TB-6	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

Designed by R. KREUTZER
Made by N. SPAVENTA
Traced by W. LANE
Checked by N. DeCOSTA

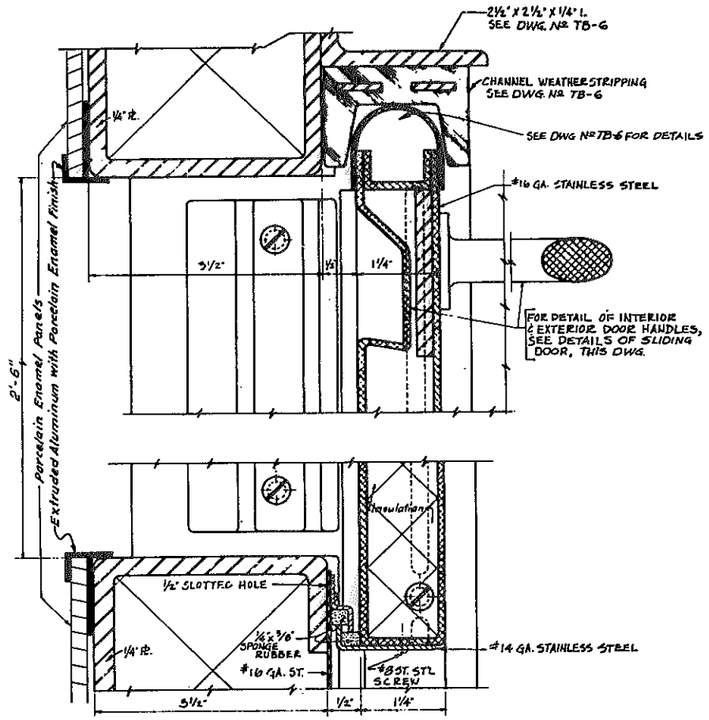
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	188	284

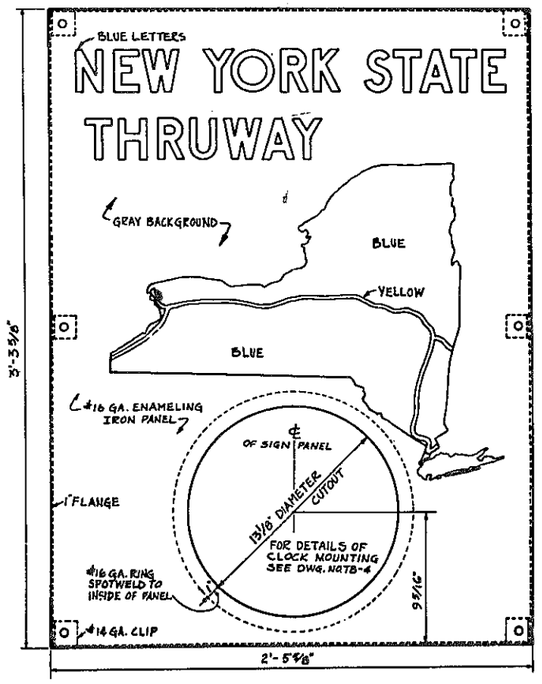
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY--DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



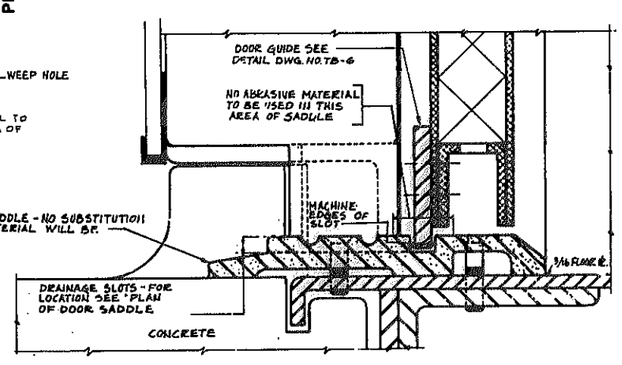
SECTION THRU SLIDING DOOR AT MAP PANEL
SCALE - FULL SIZE



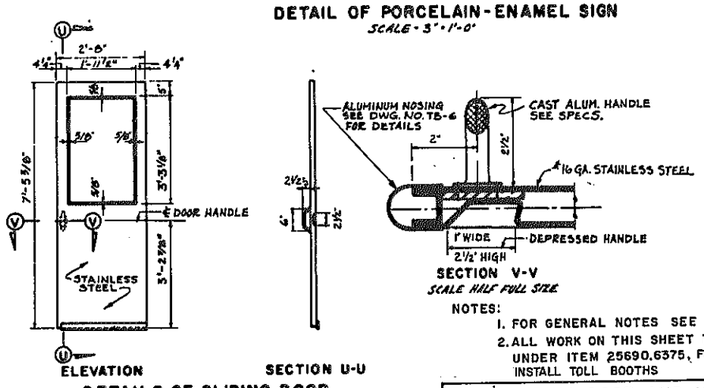
PLAN OF SLIDING DOOR AT DOOR SADDLE
SCALE - FULL SIZE



DETAIL OF PORCELAIN-ENAMEL SIGN
SCALE - 3" = 1'-0"



SECTION THRU SLIDING DOOR AT DOOR SADDLE
SCALE - FULL SIZE



DETAILS OF SLIDING DOOR
SCALE 1/2" = 1'-0"

NOTES:
1. FOR GENERAL NOTES SEE DWG. NO. TB-1
2. ALL WORK ON THIS SHEET TO BE DONE UNDER ITEM 25690.6375, FURNISH & INSTALL TOLL BOOTHS

SLIDING DOOR AND MAP PANEL DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

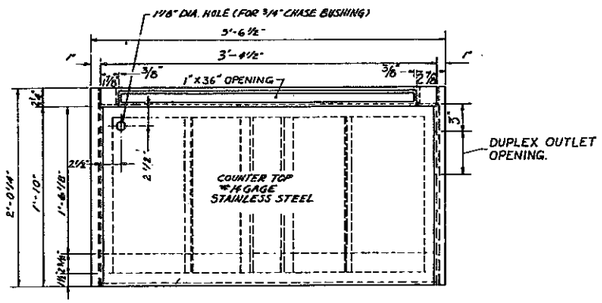
DWG. NO.	SCALE	DATE	
TB-7	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

Designed by R. HREUTZER
Made by M. SPAVENTA
Traced by M. LANE
Checked by M. DA COSTA

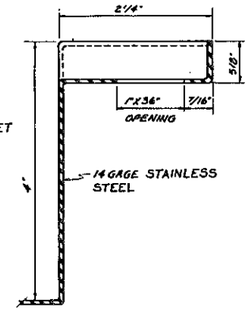
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	189	284

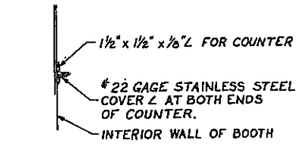
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



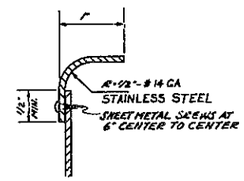
PLAN



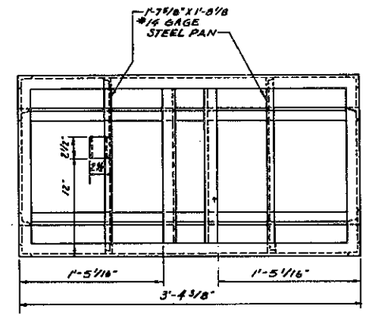
SECTION D-D
FULL SIZE



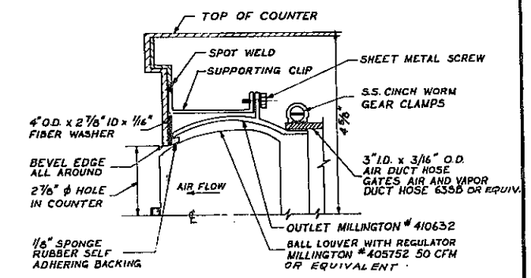
SECTION H-H



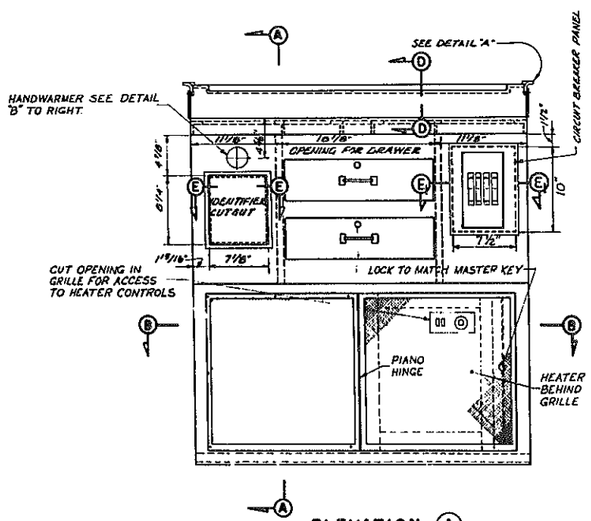
DETAIL "A"
FULL SIZE



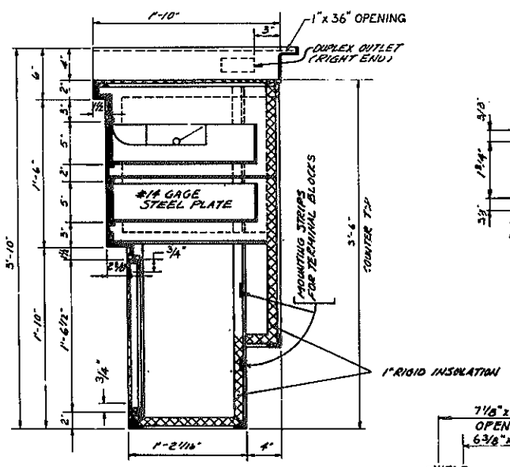
PLAN



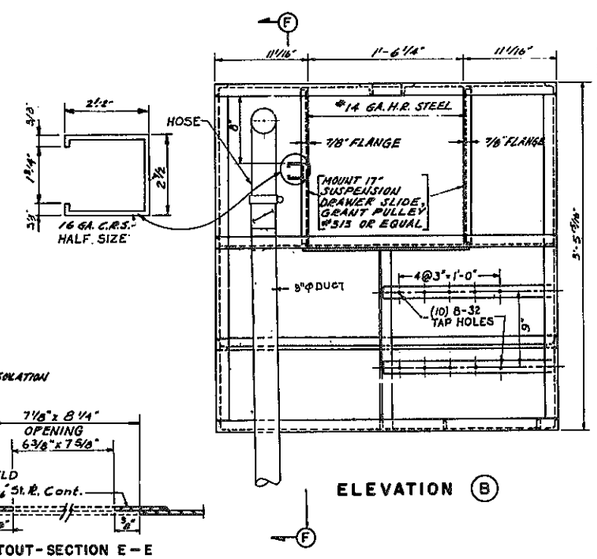
DETAIL "B"
SCALE: NONE



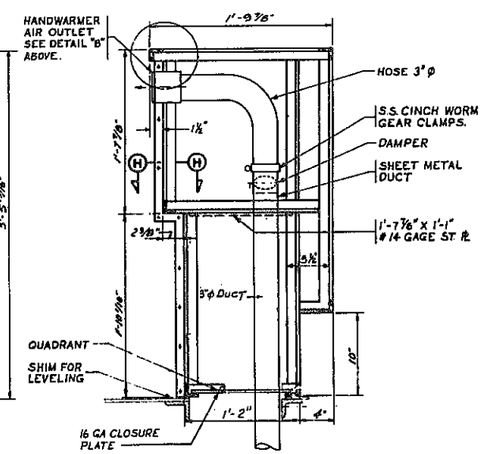
ELEVATION (A)



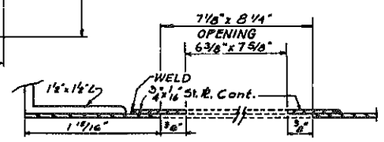
SECTION A-A



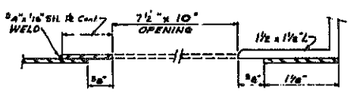
ELEVATION (B)



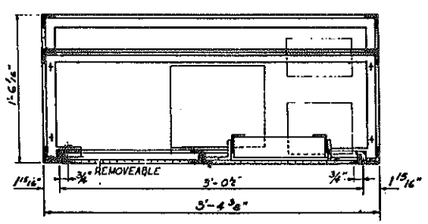
SECTION F-F



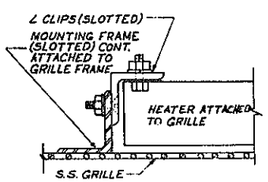
IDENTIFIER CUTOUT-SECTION E–E
FULL SIZE



LOAD CENTER-SECTION E_1 – E_1
FULL SIZE



SECTION B-B



COUNTER DETAILS
Scale: 1 1/2"=1'-0" & As Noted

NOTES:

1. #14 GAGE STAINLESS STEEL TOP FRONT, FRONT OF CASH DRAWERS AND 2 CASH TRAYS
2. 1 1/2" x 1 1/2" x 1/8" ANGLE CONSTRUCTION UNLESS NOTED.
3. SIDES AND REAR CLOSURE OF COUNTER TO BE ON BOOTH.
4. ALL ANGLE CONNECTIONS TO BE WELDED.
5. ALL WORK ON THIS SHEET TO BE DONE UNDER ITEM 25690.6375 FURNISH & INSTALL TOLL BOOTHS, EXCEPT AS NOTED.
6. FOR GENERAL NOTES SEE DWG No. TB-1

DETAILS OF TOLL BOOTH COUNTER

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

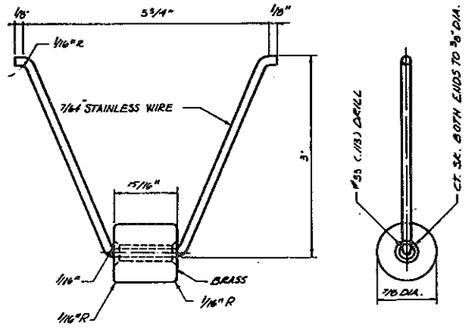
DWG. NO.	SCALE	DATE	
TB-6	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

Designed by R. KREUTZER
Made by N. SPAVENTA
Traced by W. LANE
Checked by N. DA COSTA

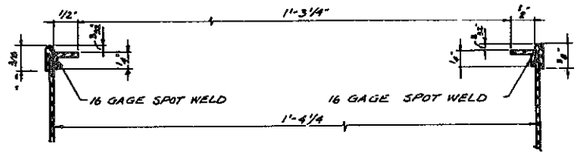
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1-88-2(10)	190	284

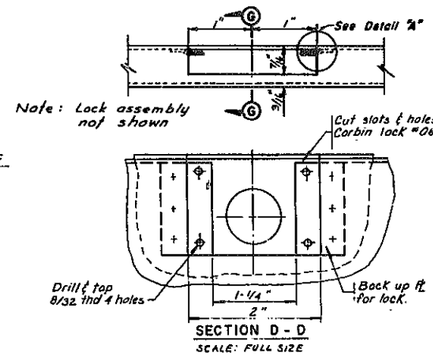
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



CASH TRAY MONEY WEIGHT AND BRACKET
Cadmium Plate Finish
SCALE: FULL SIZE

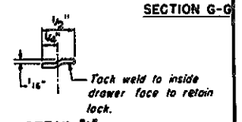


SECTION E–E
SCALE: FULL SIZE
SECTION F–F



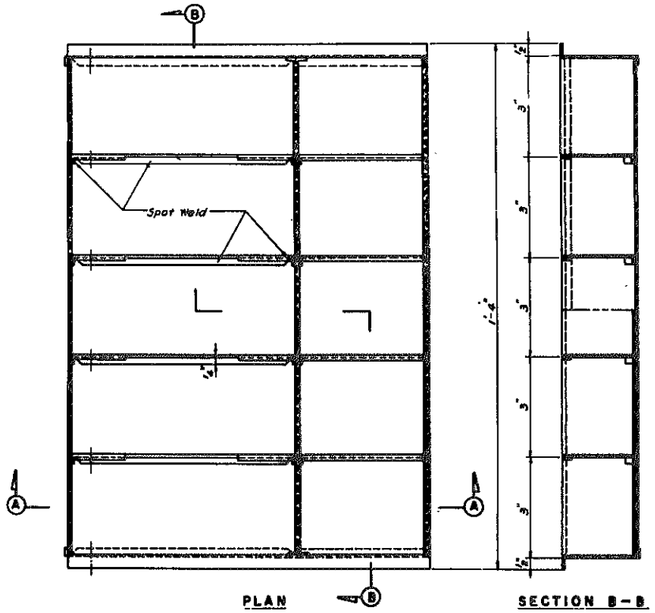
SECTION D - D
SCALE: FULL SIZE

SECTION G-G

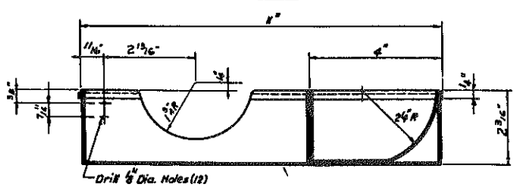


DETAIL "A"
LOCK RETAINER BAR
2 Required per drawer
Material: #14 ga. C.R.S., 2" long.

NOTE: Lock required Corbin #0666. (To be furnished by others.)

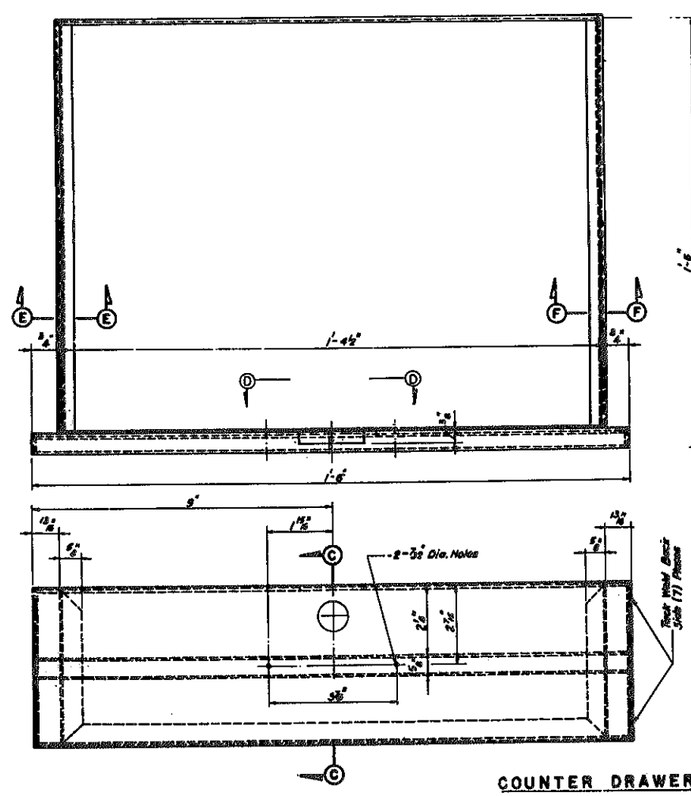


PLAN
SECTION B–B

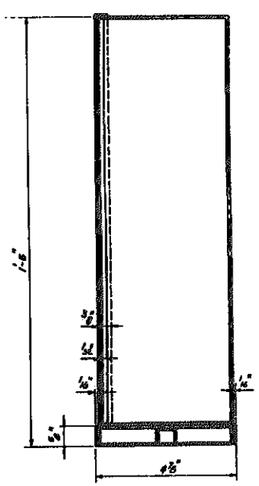


SECTION A–A

CASH TRAY
#22 Gage Stainless Steel
SCALE: HALF FULL SIZE



COUNTER DRAWER
#14 Gage C.R.S. with Stainless Steel Front
SCALE: HALF FULL SIZE



SECTION C–C

NOTES:
1. Drawers attached to counter with 17" suspension drawer slides, Grant Pulley #313 or equal SEE DWG. NO. TB-8
2. SEE DWG. NO. TB-1 FOR GENERAL NOTES.
3. ALL WORK ON THIS SHEET TO BE DONE UNDER ITEM 25C90.65TS FURNISH & INSTALL TOLL BOOTHS UNLESS OTHERWISE NOTED.

DETAILS OF TOLL BOOTH COUNTER CASH DRAWERS AND TRAYS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

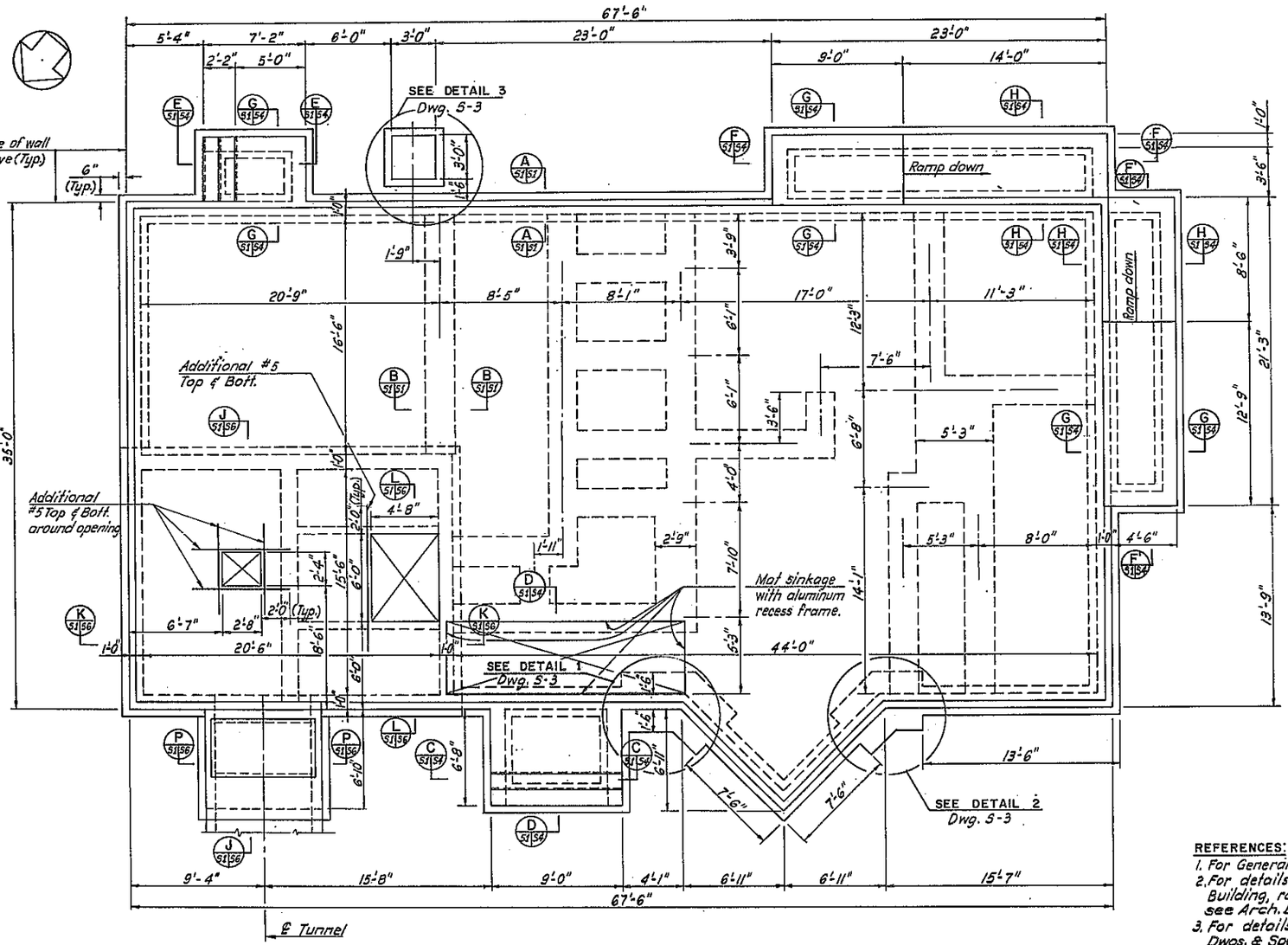
DWG. NO.	SCALE	DATE	CONSULTING ENGINEERS
TB-9	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc.

Designed by R. KREUTZER
M&QS by N. SPAVENTA
Traced by W. LANE
Checked by N. DA COSTA

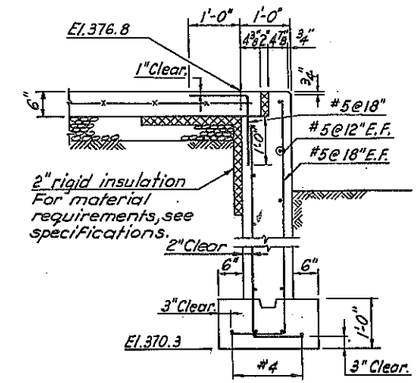
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	191	284

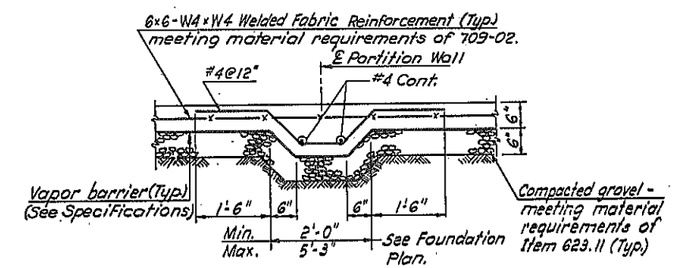
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART 1 S.H. 880
SCHENECTADY COUNTY



FOUNDATION PLAN
Scale: 1/4"=1'-0"



SECTION A
Scale: 3/4"=1'-0"



SECTION B
Scale: 3/4"=1'-0"

REFERENCES:

1. For General Notes, see Dwg. No. S-5.
2. For details of sidewalks around the Building, railing details and drainage details, see Arch. Dwgs. & Toll Booth Layout Plan.
3. For details of chimney, see Architectual Dwgs. & Specifications.
4. Sizes of pads in Mechanical and Electrical rooms are approximate. Build only from approved Shop Dwgs., certified by the Manufacturer.
5. For location and details of insulation see Architectural Dwgs.
6. For utility penetrations, see Electrical & Mechanical Dwgs.

NOTES:

1. All stairs shall have 1/4" radius nosing.

Prepared and recommended Date 8/3/79
GOODKIND & O'DEA, INC. Consulting Engineers

FOUNDATION PLAN
UTILITY BUILDING

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

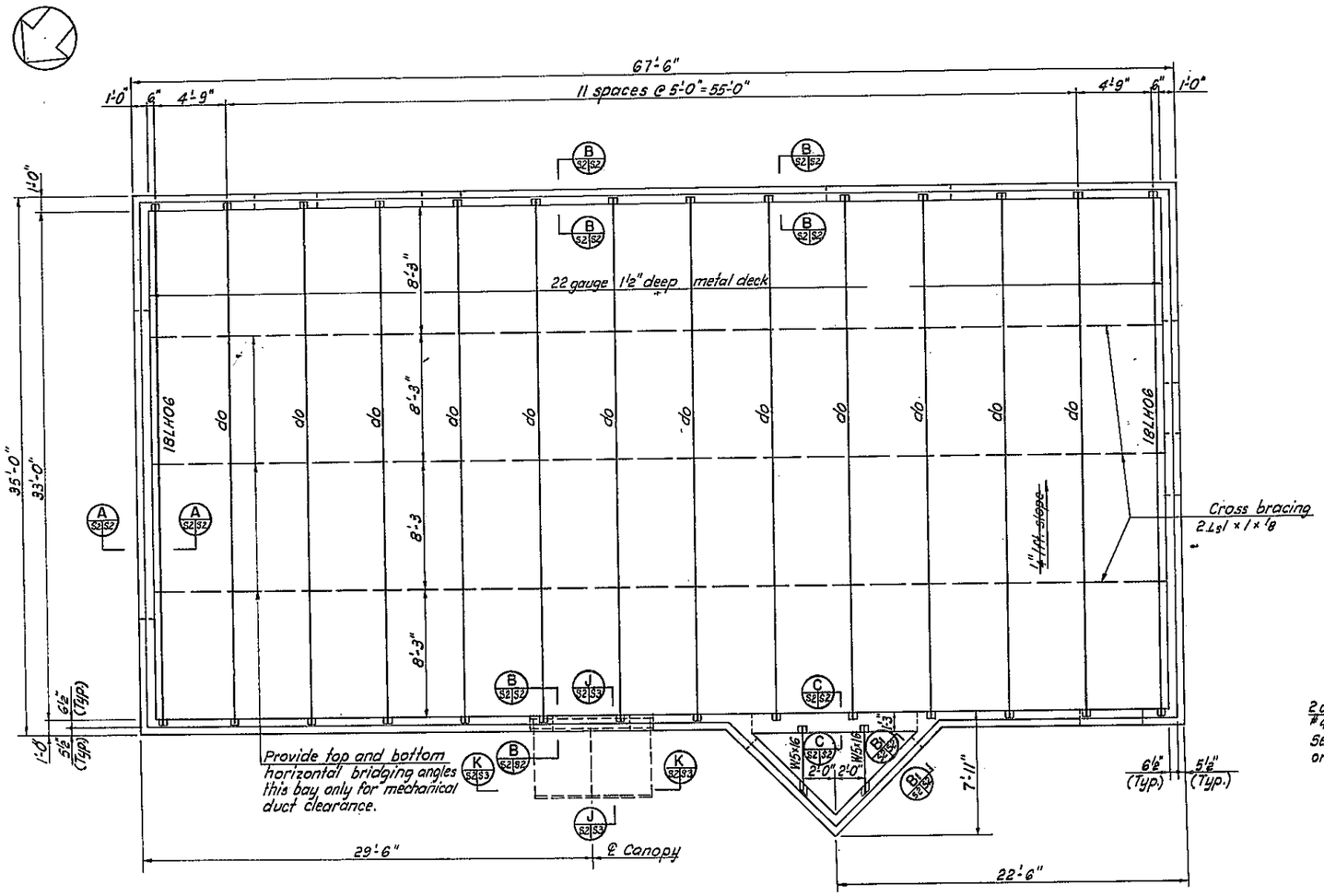
DWG. NO.	SCALE	DATE	
S-1	AS NOTED	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

Peter Chu
In Charge of P. Chu
Designed by J.V. Gramer
Designed by R.A. Seitz
Designed by L. Volkoff
Detail Checked by P. Chu

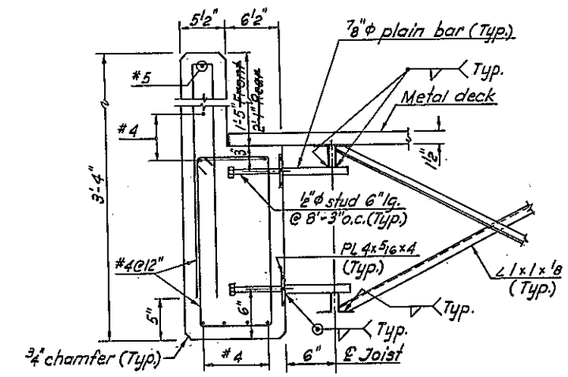
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	192 R1	284

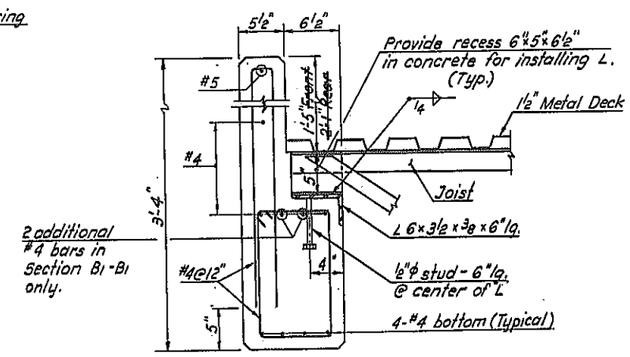
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO. N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG PART 1 S.H. 880
SCHENECTADY COUNTY



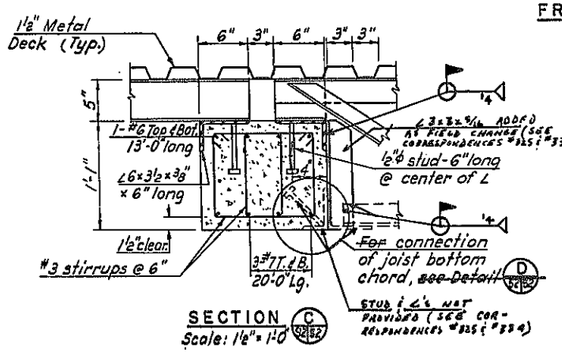
FRAMING PLAN
Scale: ¼" = 1'-0"



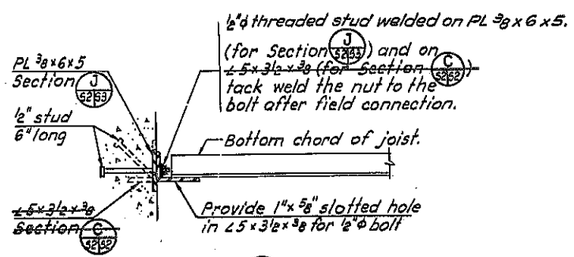
SECTION A
Scale: 1½" = 1'-0"



SECTION B
Scale: 1½" = 1'-0"



SECTION C
Scale: 1½" = 1'-0"



DETAIL D
Scale: 1½" = 1'-0"

REFERENCES:

1. For General Notes, see Dwg. No. S-5.
2. For locations of mechanical ducts, and equipment, see HV Dwgs.

REVISIONS

Prepared and recommended Date 8/3/79
Donald Goodkind
GOODKIND & O'DEA, INC. Consulting Engineers

ROOF FRAMING PLAN AND SECTIONS
UTILITY BUILDING

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

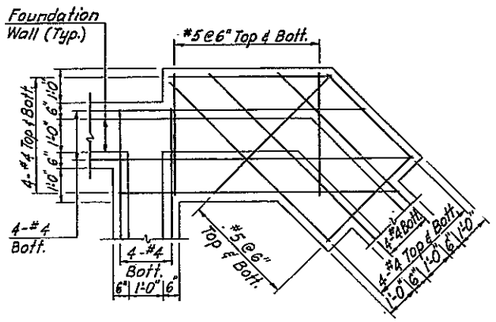
DWG. NO.	SCALE	DATE	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS
S-2	AS NOTED	7-30-79	

In Charge of Peter Chu
Designed by T.C. Granger
Design Checked by R.C. Stutz
Detailed by L. Volkoff
Detail Checked by P. Chu

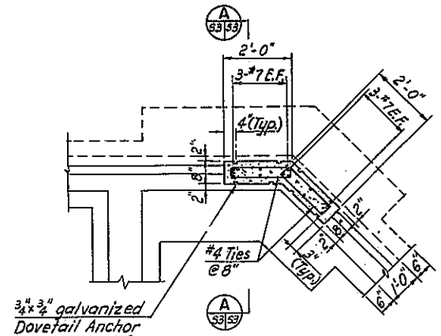
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	193	284

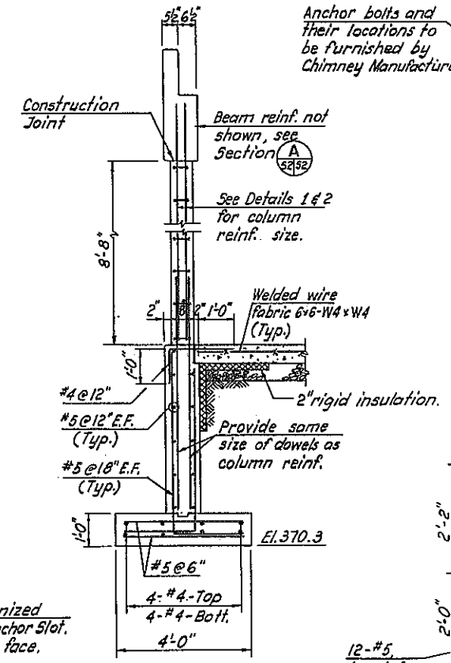
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

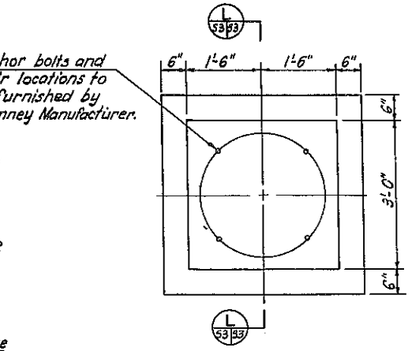


TYPE I FOOTING
Scale: 1/2" = 1'-0"

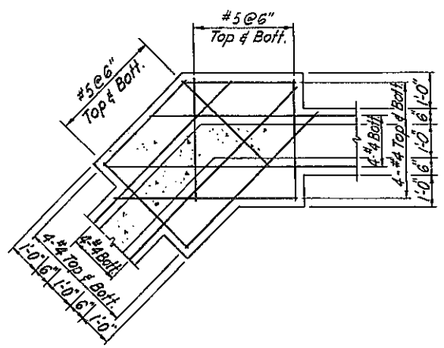


DETAIL 1
Scale: 1/2" = 1'-0"

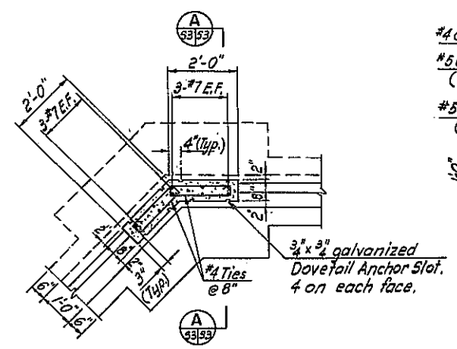




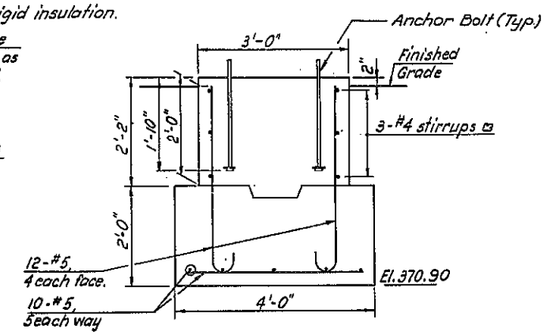
DETAIL 3
Scale: 3/4" = 1'-0"



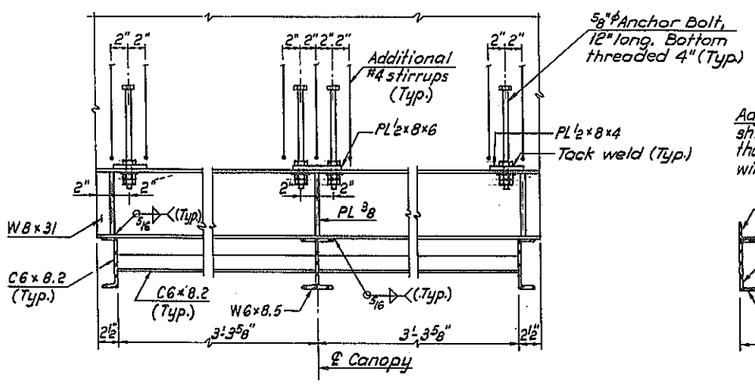
TYPE II FOOTING
Scale: 1/2" = 1'-0"



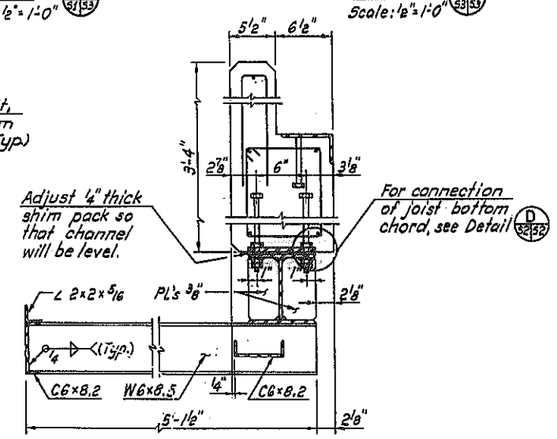
DETAIL 2
Scale: 1/2" = 1'-0"



SECTION L
Scale: 3/4" = 1'-0"



SECTION K
Scale: 1 1/2" = 1'-0"



SECTION J
Scale: 1 1/2" = 1'-0"

REFERENCES:

1. For General Notes, see Dwg. No. S-5.
2. For Chimney Details, see Architectual Dwgs. & Specifications.

Prepared and recommended: Date 8/2/79
GOODKIND & O'DEA, INC. Consulting Engineers

FOOTING DETAILS AND ENTRANCE CANOPY SECTIONS
UTILITY BUILDING

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

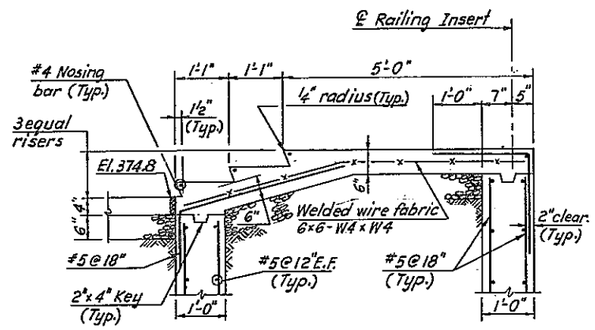
DWG. NO.	SCALE	DATE	
S-3	AS NOTED	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

Is Charge of P. Chen
Designed by J. Granger
Design Checked by R.C.S. Smith
Details by J. Walker
Details Checked by P. Chen

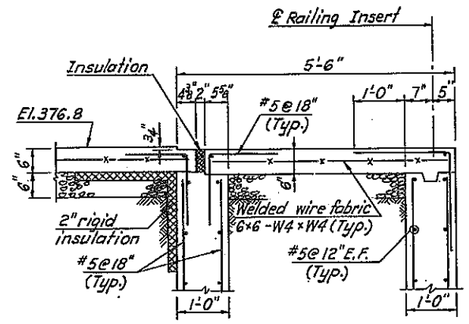
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	194	284

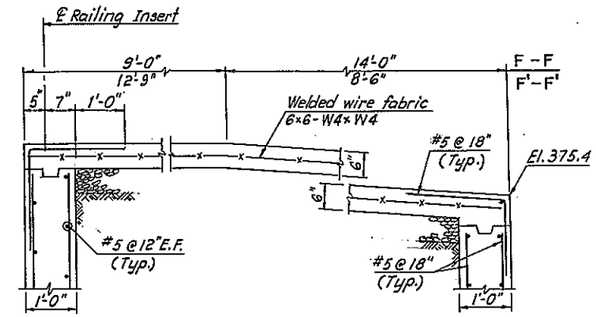
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



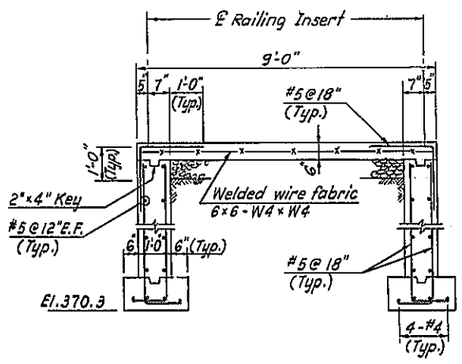
SECTION E (S1/S4)
Scale: ¾" = 1'-0"



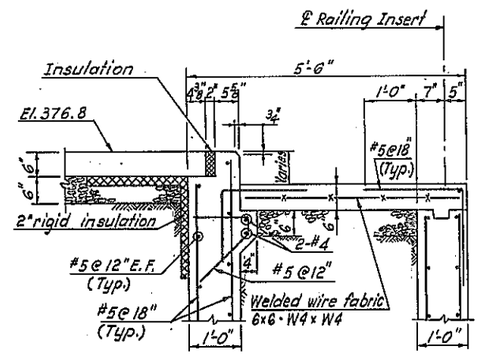
SECTION G (S1/S4)
Scale: ¾" = 1'-0"



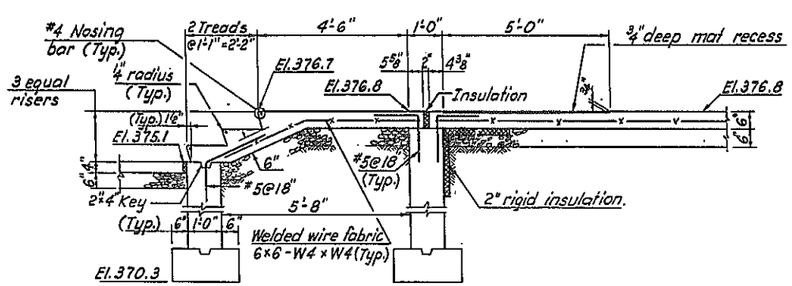
SECTION F (S1/S4)
Scale: ¾" = 1'-0"
SECTION F' (S1/S4)
(Similar)



SECTION C (S1/S4)
Scale: ½" = 1'-0"



SECTION H (S1/S4)
Scale: ¾" = 1'-0"



SECTION D (S1/S4)
Scale: ½" = 1'-0"

NOTE:
Footings for foundation walls of Sections E (S1/S4), F (S1/S4), G (S1/S4) & H (S1/S4) are same as those shown in Section C (S1/S4)

REFERENCES:
1. For General Notes, see Dwg. No. S-5.
2. For Details of Railing Inserts, see Architectural Dwg. No. A-5.

Prepared and recommended Date 8/3/79
Donald Goodkind
GOODKIND & O'DEA, INC. Consulting Engineers

RAMP AND STAIR SECTIONS
UTILITY BUILDING
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

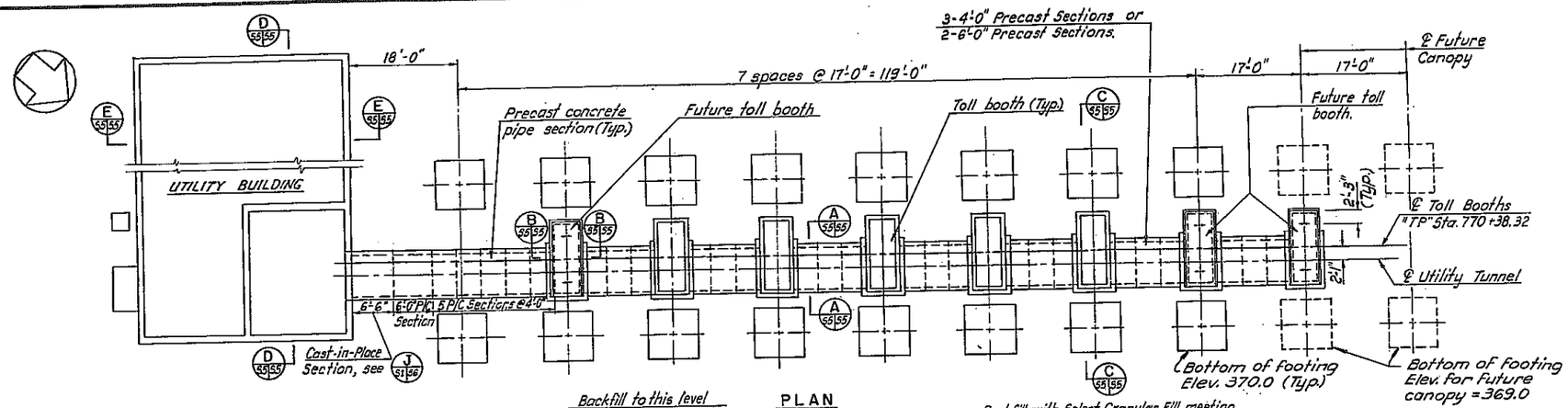
DWG. NO.	SCALE	DATE	
S-4	AS NOTED	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

Peter C. Chen
In Charge of: H. Granger
Design Engineer: R.C. Seitz
Design Checked by: Y. Volkoff
Detailed by: P. Chen
Detail Checked by:

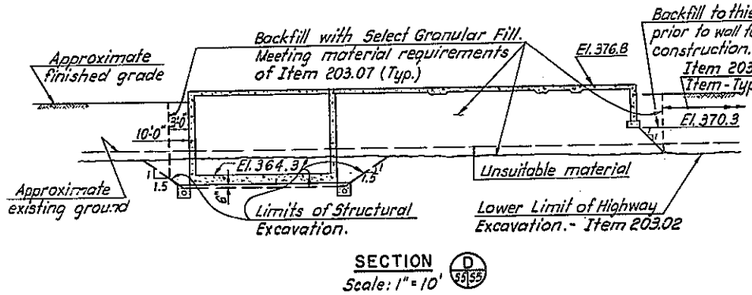
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	185	284

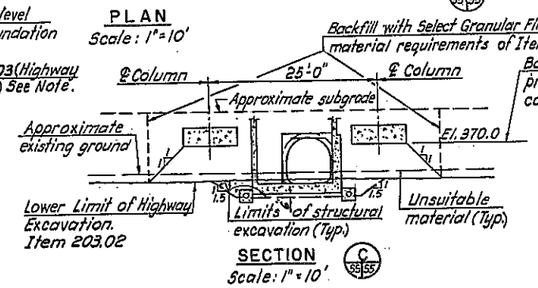
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



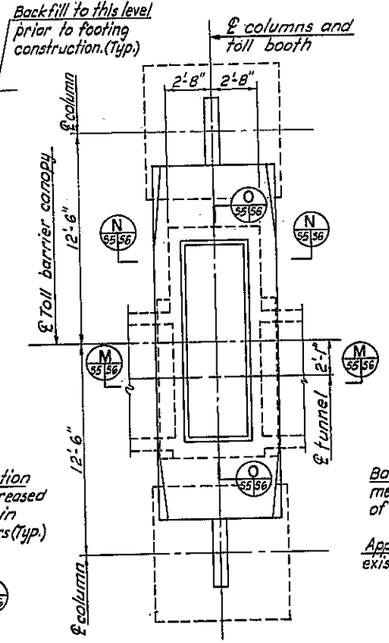
PLAN
Scale: 1" = 10'



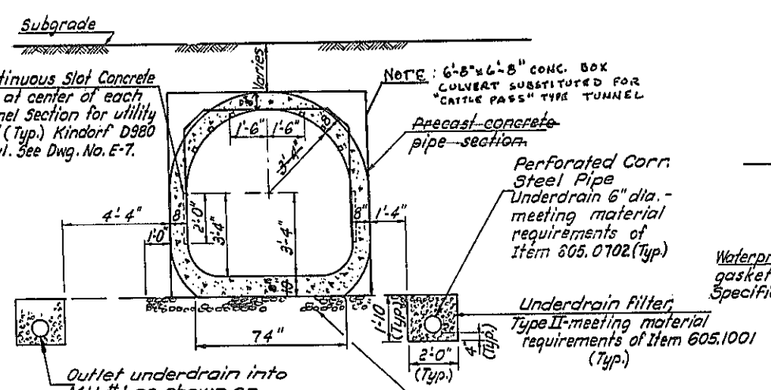
SECTION
Scale: 1" = 10'



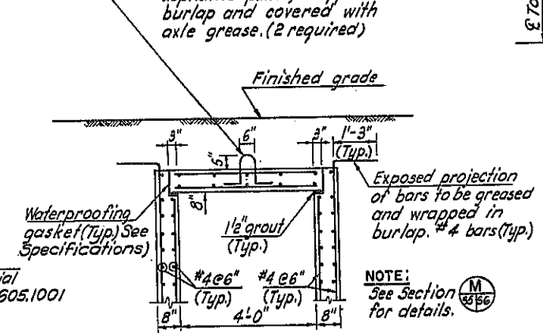
SECTION
Scale: 1" = 10'



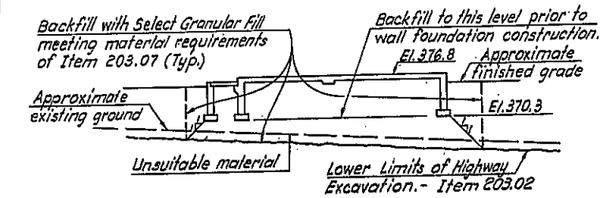
BOOTH FOUNDATION PLAN
Scale: 1/4" = 1'-0"



SECTION
Scale: 3/8" = 1'-0"



SECTION
Scale: 1/2" = 1'-0"



SECTION
Scale: 1" = 10'

GENERAL NOTES

- DESIGN CONFORMS TO APPLICABLE PORTIONS OF FOLLOWING STANDARDS.
  1. AMERICAN CONCRETE INSTITUTE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" ACI (318:77).
  2. NEW YORK STATE DEPARTMENT OF TRANSPORTATION " STANDARD SPECIFICATION FOR HIGHWAY BRIDGES " AS AMENDED.
  3. AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION & ERECTION OF STRUCTURAL STEEL FOR BUILDING", PART I FEB.12,1969, AS AMENDED.
  4. AMERICAN WELDING SOCIETY " STRUCTURAL WELDING CODE " AWS D 1.1-78 AND "RECOMMENDED PRACTICES FOR REINFORCEMENT STEEL, METAL INSERTS AND CONNECTION IN REINFORCED CONCRETE CONSTRUCTION ", AWS D12-1.
- MATERIAL AND CONSTRUCTION SPECIFICATIONS: NEW YORK STATE DEPARTMENT OF TRANSPOTATION " STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS " JANUARY 3, 1978 AND ADDENDUM NO.1 .
- DESIGN LOADS:
  LIVE LOAD : 45 PSF ON ROOF OF BUILDING AND CANOPY
  300 PSF ON ENTIRE FLOOR OF BUILDING
  WIND LOAD:: 15 PSF ON BUILDING AND CANOPY
- ALL REINFORCING STEEL SHALL CONFORM TO ALL REQUIREMENTS OF ASTM DESIGNATION A615 , GRADE 60. ALL WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ALL REQUIREMENTS OF ASTM DESIGNATION A185.
- STRUCTURAL STEEL AND EMBEDDED ITEMS SHALL CONFORM TO ALL REQUIREMENTS OF ASTM DESIGNATION A36 EXCEPT AS OTHERWISE NOTED.
- UNLESS OTHERWISE SHOWN , ALL SPLICES IN REINFORCING STEEL SHALL BE 36 BAR DIAMETERS.
- BASEMENT WALLS SHALL BE ADEQUATELY BRACED AT TOP AND BOTTOM UNTIL FLOOR SYSTEMS AND SLABS ON GRADE HAVE BEEN CONSTRUCTED AND HAVE REACHED SUFFICIENT STRENGTH.
- CONSTRUCTION JOINTS IN EXTERIOR EXPOSED CONCRETE SURFACES OTHER THAN SHOWN WILL NOT BE PERMITTED.
- ALL CONCRETE SHALL HAVE ULTIMATE COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS EXCEPT THAT CONCRETE USED IN THE CONSTRUCTION OF THE PRECAST CONCRETE TOLL BOOTH CANOPY SHALL HAVE ULTIMATE COMPRESSIVE STRENGTH OF 5000 PSI AT 28 DAYS.
- SPECIAL CARE SHALL BE EXERCISED IN CONNECTING CANOPY ROOF UNITS TO COLUMNS SO AS TO PREVENT ANY DAMAGE TO THE PROTRUDING 2" ϕ DRAIN IN ROOF UNITS. STEEL PLATES SHALL BE ACCURATELY ALIGNED BEFORE FIELD WELDING.
- UNLESS OTHERWISE SHOWN, CONCRETE COVER TO REINFORCING STEEL SHALL BE 1 1/2" FOR BEAMS AND COLUMNS 1" FOR SLABS, 2" FOR EXPOSED WALLS, 3" FOR CONCRETE PLACED DIRECTLY ON GROUND AND 2" FOR FORMED CONCRETE SURFACE EXPOSED TO EARTH.
- ALL DOWELS SHALL BE TIED IN PLACE PRIOR TO PLACING CONCRETE.
- ALL EXPOSED CONCRETE CORNERS SHALL BE PROVIDED WITH 1/2" CHAMFERS UNLESS OTHERWISE SHOWN.
- DETAILED PROCEDURE FOR WELDING REINFORCING STEEL SHALL BE SUBMITTED FOR APPROVAL BEFORE COMMENCEMENT OF WELDING.

NOTE:
Highway embankment material and Item 203.07 shall be placed simultaneously in contact on both sides of the Vertical Payment Line.

REVISIONS

Prepared and recommended Date 8/3/79
Donell Goodkind
GOODKIND & O'DEA, INC. Consulting Engineers

FOUNDATION PLAN
UTILITY TUNNEL

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

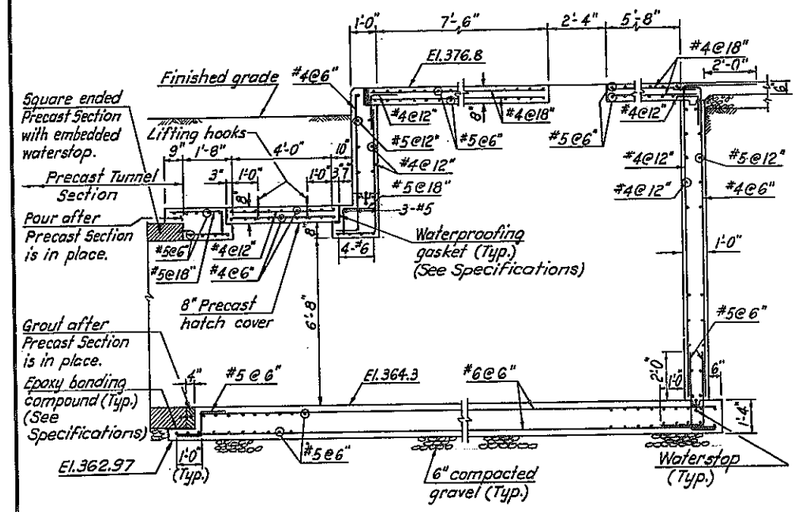
DWG. NO.	SCALE	DATE	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS
S-5	AS NOTED	7-30-79	

In Charge of Peter Chen
Designed by H. Granger
Design Checked by R. C. Seitz
Detailed by L. Tolkoff
Detail Checked by P. Chen

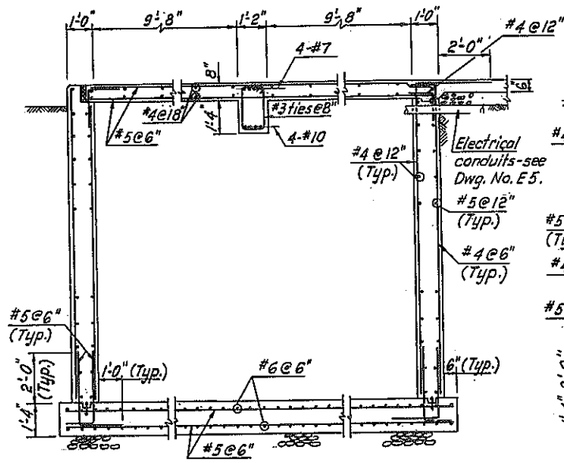
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	196R1	284

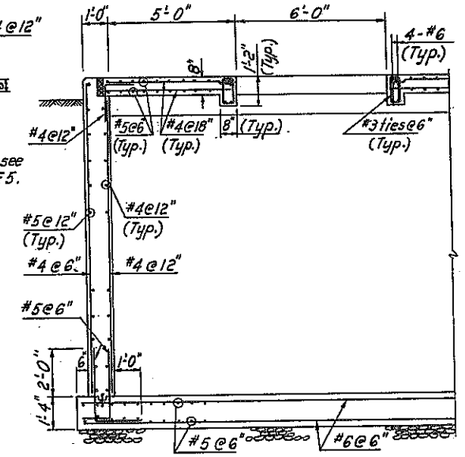
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



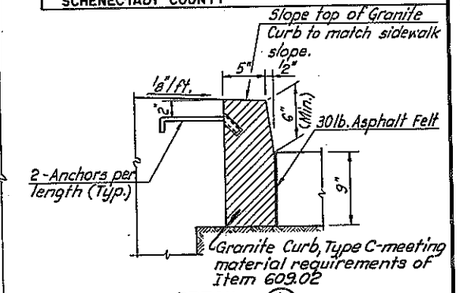
SECTION J 51/56
Scale: 3/8" = 1'-0"



SECTION K 51/56
Scale: 3/8" = 1'-0"



SECTION L 51/56
Scale: 3/8" = 1'-0"

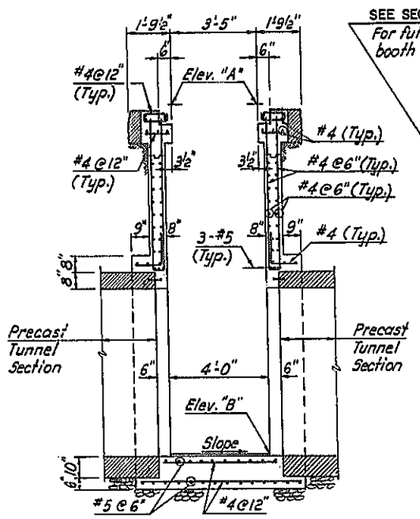


DETAIL 1 56/56
Scale: 1½" = 1'-0"

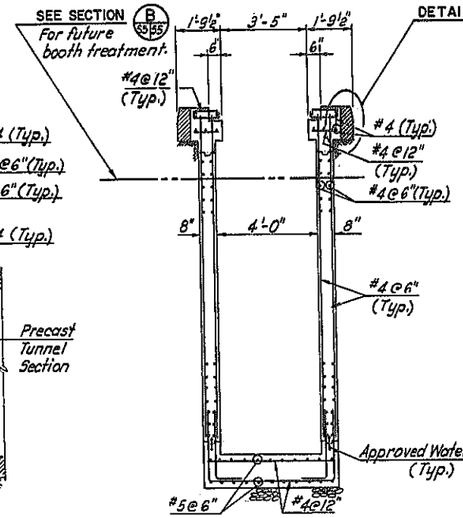
TABLE OF ELEVATIONS		
BOOTH *	ELEV. "A"	ELEV. "B"
*1	See Note 3	364.00
2	375.44	363.83
3	375.79	363.66
4	375.58	363.49
5	375.23	363.32
6	374.87	363.15
7	See Note 3	362.98
8	See Note 3	362.81

*The booth closest to the Toll Utility Building is Booth #1.

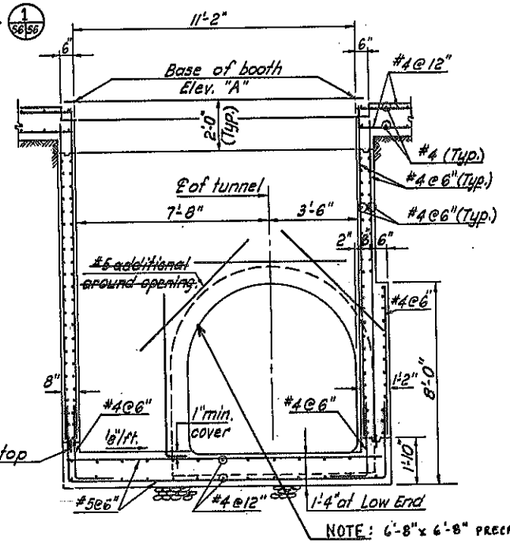
NOTE:
All construction joints below grade level, in basement and toll booth walls shall be provided with approved waterstops.



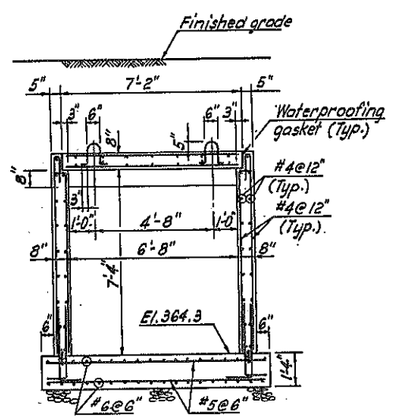
SECTION M 55/56
Scale: 3/8" = 1'-0"



SECTION N 55/56
Scale: 3/8" = 1'-0"



SECTION O 55/56
Scale: 3/8" = 1'-0"



SECTION P 51/56
Scale: 3/8" = 1'-0"

REFERENCES:
1. For General Notes, see Dwg. No. S-5.
2. For future booth treatment, see Section B 55/55 Dwg. No. S-5.
3. For Details of toll booth base, see Toll Booth Dwgs.

NOTE:
See Dwg. TB-2 for Toll Booth Sub-Frame Assembly, to be Furnished under Item 25690.6375, "Furnish and install Toll Booth" and installed under Item 25690.6374, "Toll Utility Building, Islands, Canopy and related work.

Prepared and recommended Date 8/7/79
GOODKIND & O'DEA, INC. Consulting Engineers

REVISIONS

BASEMENT SECTIONS-UTILITY BUILDING & UTILITY TUNNEL SECTIONS
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

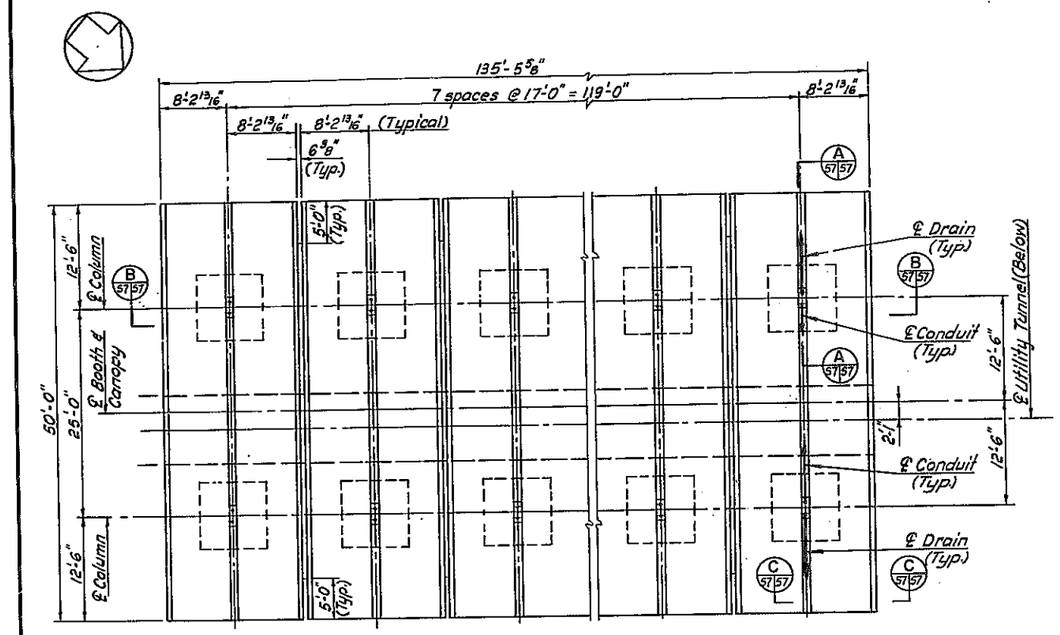
DWG. NO.	SCALE	DATE	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS
S-6	AS NOTED	7-30-79	

In Charge of T.C. Granger
Designed by R. Castitz
Design Checked by J. Valkoff
Detailed by
Detail Checked by P. Chen

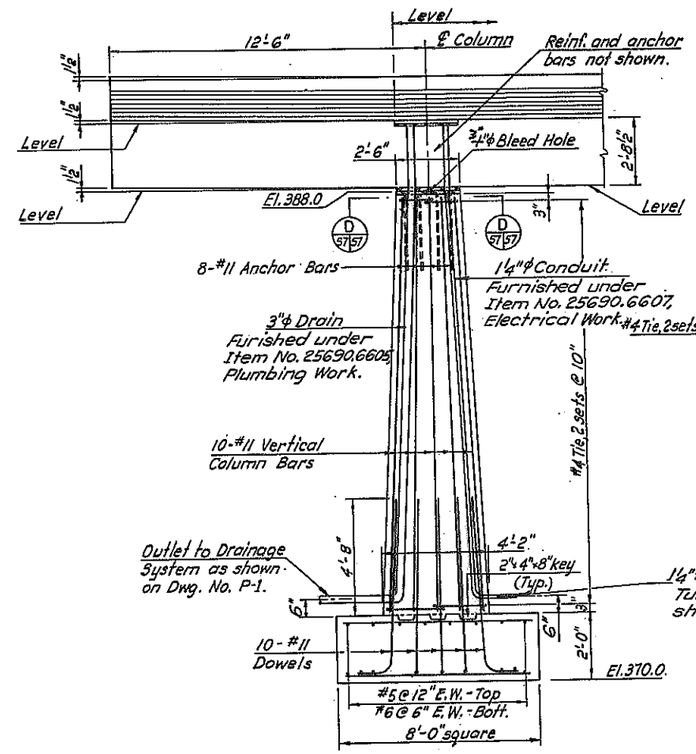
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	197(2)	284

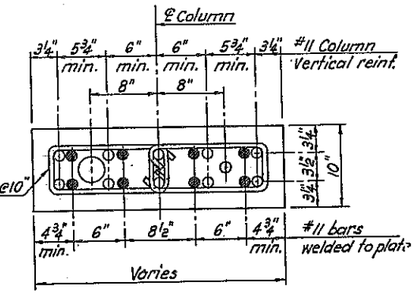
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



ROOF PLAN
Scale: 1/8" = 1'-0"

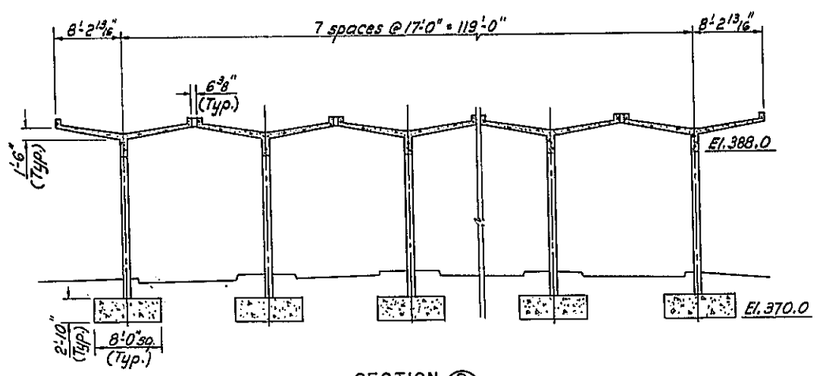


SECTION A
Scale: 3/8" = 1'-0"

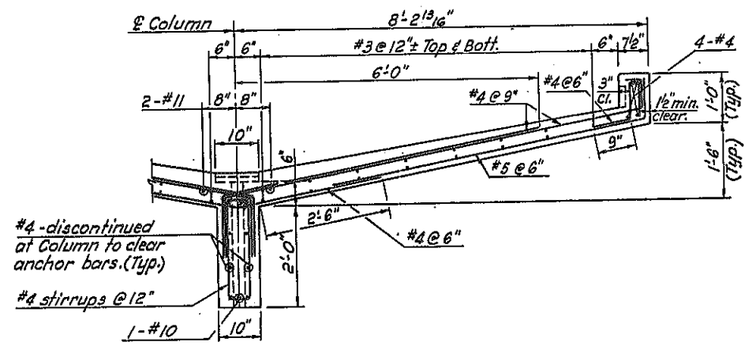


SECTION D
Scale: 1 1/2" = 1'-0"

NOTE:
Special care shall be excercised in placing concrete in canopy columns so that no void or segregation will occur under the steel plate.



SECTION B
Scale: 1/8" = 1'-0"



SECTION C
(PRECAST TEE)
Scale: 3/4" = 1'-0"

REFERENCES:
1. For General Notes, see Dwg. No. S-5.
2. Refer to Order on Contract #21 for details of corrective measures taken on canopy - column system

REVISIONS

Prepared and recommended Date 8/3/79
GOODKIND & O'DEA, INC. Consulting Engineers

TOLL PLAZA PLAN AND DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

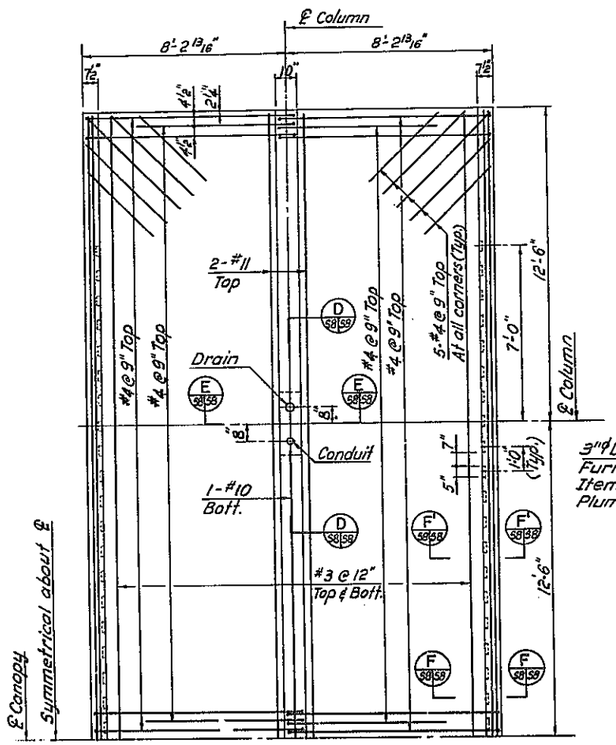
DWG. NO.	SCALE	DATE	
S-7	AS NOTED	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

In Charge of: P. Chen
Designed by: J. Kocabiyik
Design Checked by: L. Polkowski
Detailed by: J. Kocabiyik
Detail Checked by: P. Chen

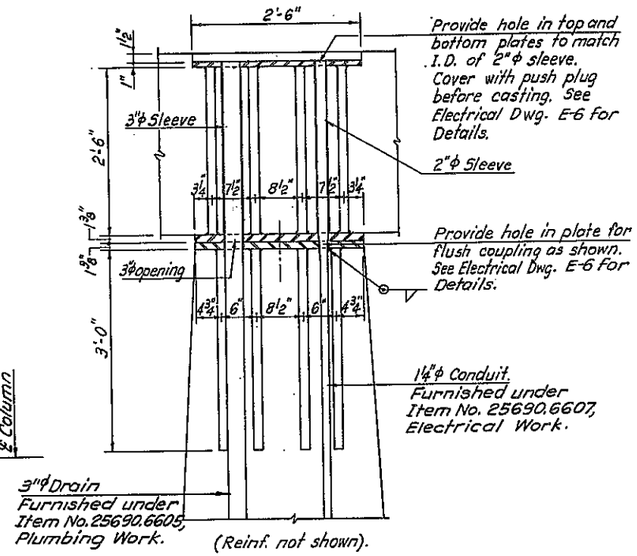
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	198R	284

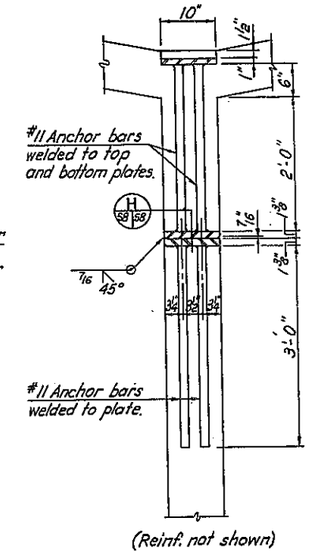
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



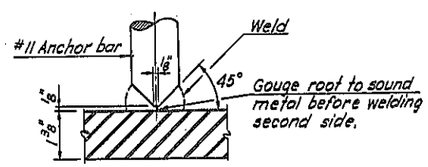
HALF PLAN
Scale: 3/8" = 1'-0"



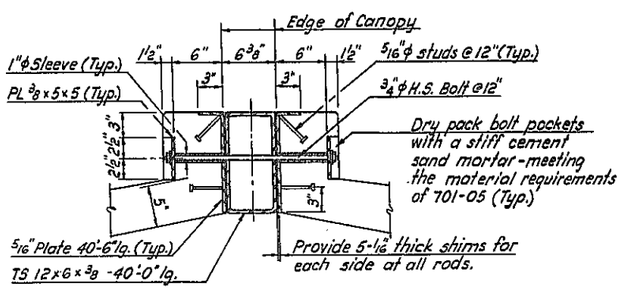
SECTION D
Scale: 1" = 1'-0"



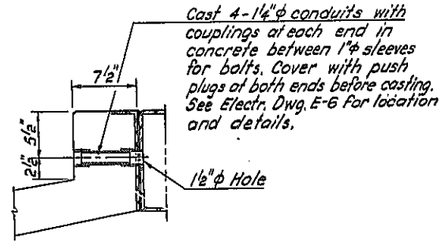
SECTION E
Scale: 1" = 1'-0"



SECTION H
Half size



SECTION F
Scale: 1½" = 1'-0"



SECTION F'
Scale: 1½" = 1'-0"

NOTE:

The longitudinal edges of the precast concrete roof units shall be supported against deflection during erection and until the units have been connected together. In addition the roof units shall be laterally braced prior to connection.

REFERENCES:

1. For General Notes, see Dwg. No. S-5.
2. For Details of 3"ϕ drain connection, see Plumbing Dwgs.
3. For 1¼"ϕ Conduit details, see Electrical Dwgs.
4. For location of drainage system, see Plumbing Dwgs.
5. REFER TO ORDER ON CONTRACT # 21 FOR DETAILS OF CORRECTIVE MEASURES TAKEN ON CANOPY - COLUMN SYSTEM

REVISIONS

Prepared and recommended Date 8/3/79
GOODKIND & O'DEA, INC. Consulting Engineers

TOLL CANOPY HALF PLAN AND DETAILS
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

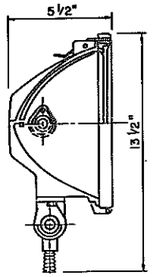
DWG. NO.	SCALE	DATE		
S-8	AS NOTED	7-30-79	Goodkind & O'Dea, Inc.	CONSULTING ENGINEERS

In Charge of P. C. Chen
Designed by T. C. Cooper
Design Checked by R. Sohl
Detailed by E. Volkoff
Detail Checked by P. Chen

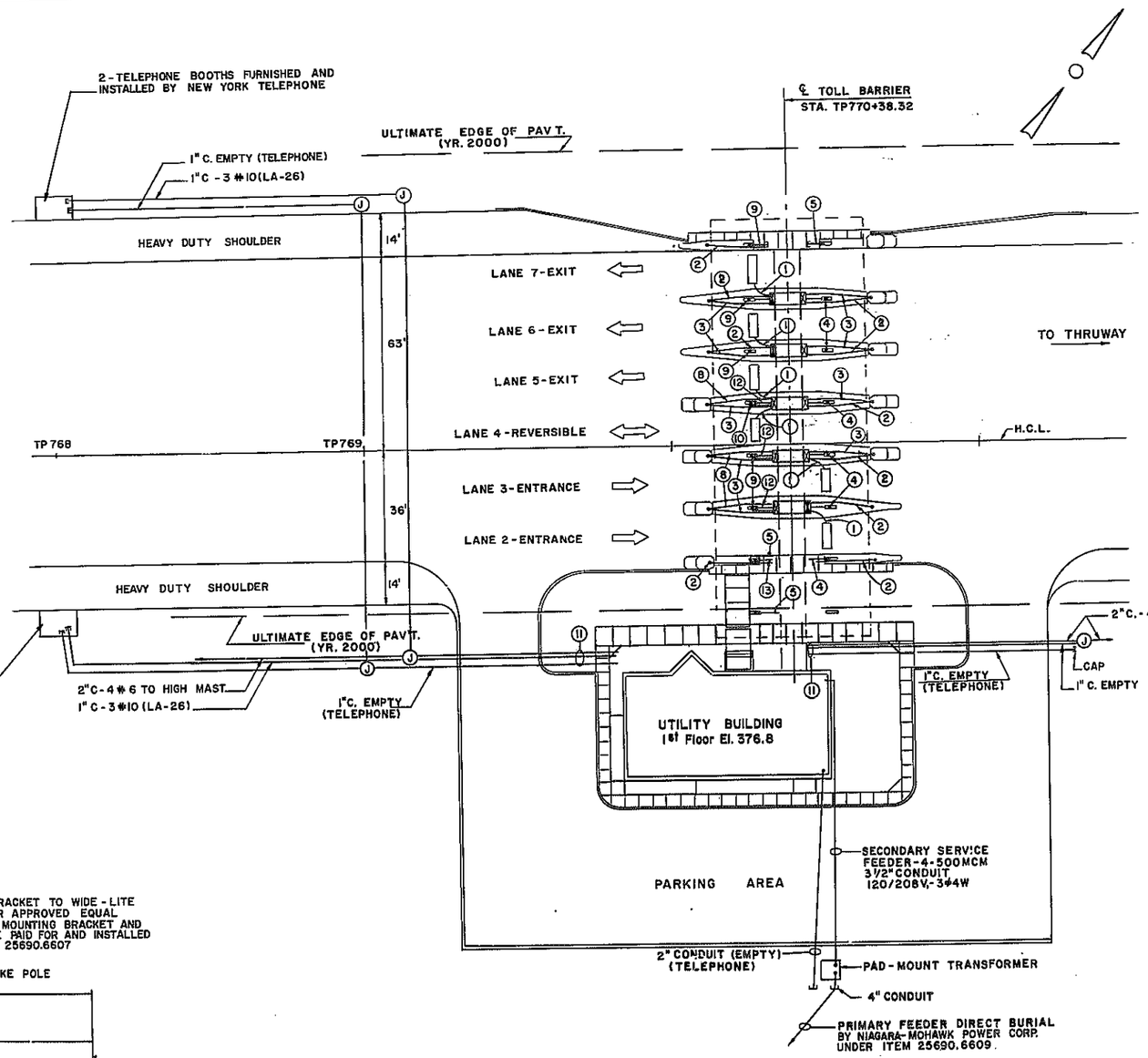
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	199	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY.



AXLE LIGHT DETAIL A
LAMP FIXTURE TYPE - C

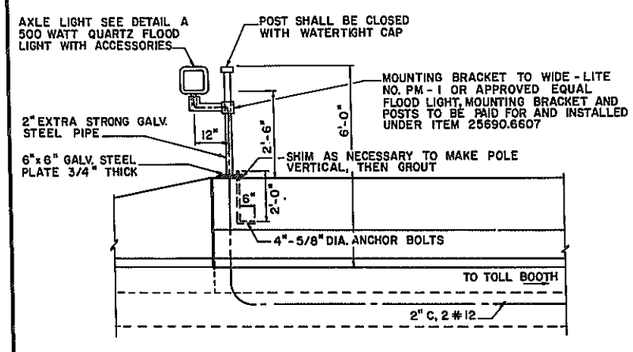


LEGEND - THIS SHEET ONLY

- TREADLE FURNISHED AND INSTALLED UNDER ITEM 25690.6342, FURNISH AND INSTALL TOLL EQUIPMENT SEE DWG. NO. E-13
- CONDUIT AND CABLE AS NOTED.
- (J) CONCRETE JUNCTION BOX, SEE DWG NO. E-3.
- ACTIVE COUNTER IN TOLL BOOTH
- INACTIVE COUNTER IN TOLL BOOTH (NO TOLL EQUIPMENT REQUIRED)

CONDUIT AND WIRE KEY

1. 2"C., TREADLE WIRES AS REQ'D. SEE DWG. E-13.
2. 2"C., EMPTY
3. 3/4"C., EMPTY
4. 1 1/4"C, 3 #12 TO CANOPY LIGHTS TYPICAL FOR EAST COLUMNS, EXCEPT AS NOTED.
5. 1 1/4" C - EMPTY LANE CONTROL SIGNALS OR CANOPY LIGHTS - FUTURE
6. 2"C-4#2
7. 2"C-4#2 AND SIGNAL WIRES AS REQ'D.
8. 2"C-2#10-CONNECT TO QUARTZ LIGHT. (SEE DETAIL AT LEFT)
9. 1 1/4"C-4#12 TRAFFIC SIGNALS - ONE WAY.
10. 1 1/4"C-6#12-TRAFFIC SIGNALS - REVERSIBLE
11. EXTEND INTO TUNNEL AND TO APPROPRIATE WIREWAY.
12. 1"C - 3 #12 - OVERHEIGHT DETECTOR (SEE DETAIL DWG. NO. E-6)
13. 1"C - EMPTY - OVERHEIGHT DETECTOR - FUTURE



AXLE LIGHT INSTALLATION DETAIL

In Charge of R. KREUTZER
Designed by B. SCHWARTZ
Design Checked by N. SPAVENTA
Detail Drawn by N. DA COSTA
Detail Checked by W. LANE

Prepared and recommended
Bernard W. Schwartz Date 7-30-79
GOODKIND & O'DEA, INC.
Consulting Engineers

TOLL PLAZA PLAN AND DETAILS

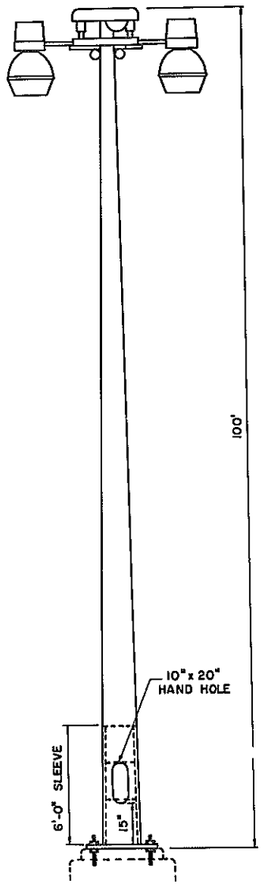
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DWG. NO.	SCALE	DATE	CONSULTING ENGINEERS
E-1	NONE	7-30-79 9-14-79 REVISED	Goodkind & O'Dea, Inc.

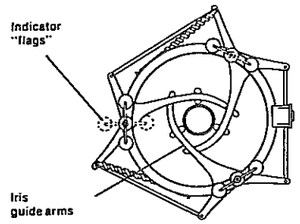
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	200 (L)	284

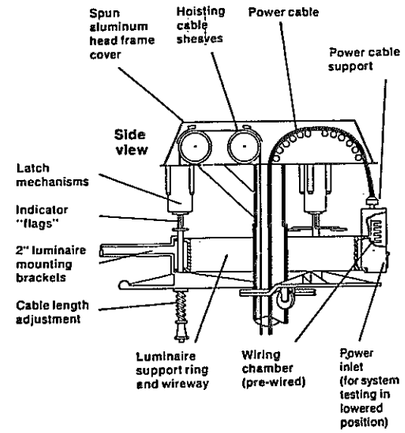
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

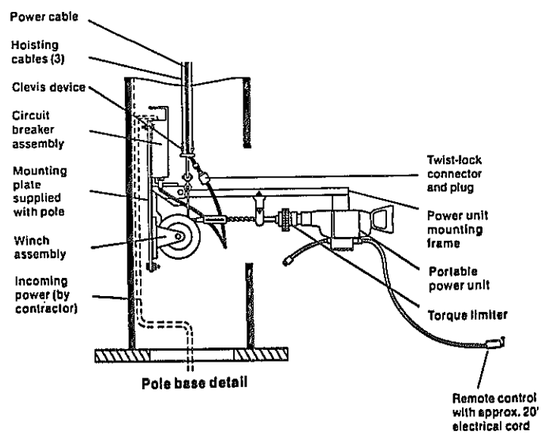


HIGH MAST SYSTEM
ITEM NO 25690.6701
N.T.S.

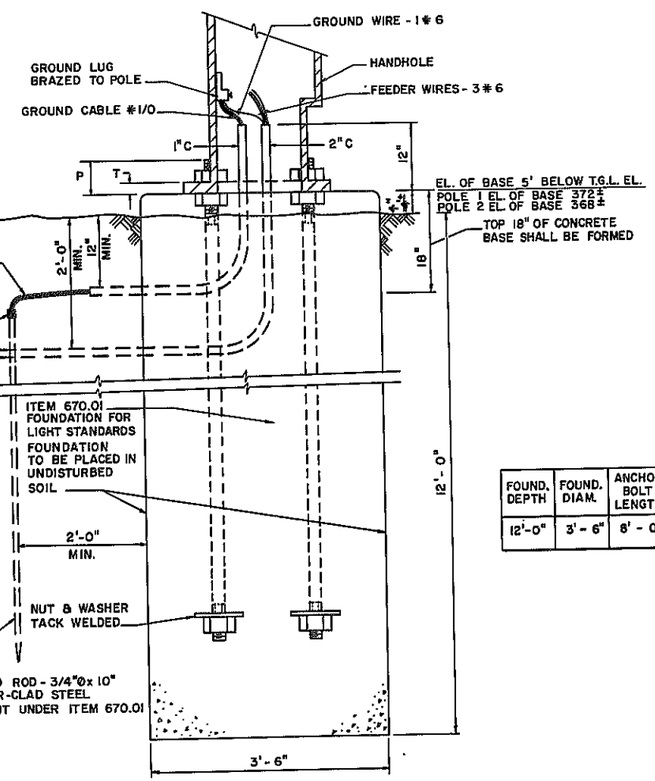


Top view (mounting ring)

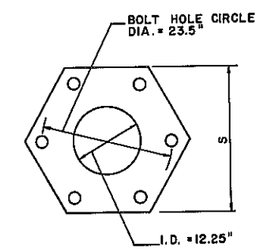




Pole base detail



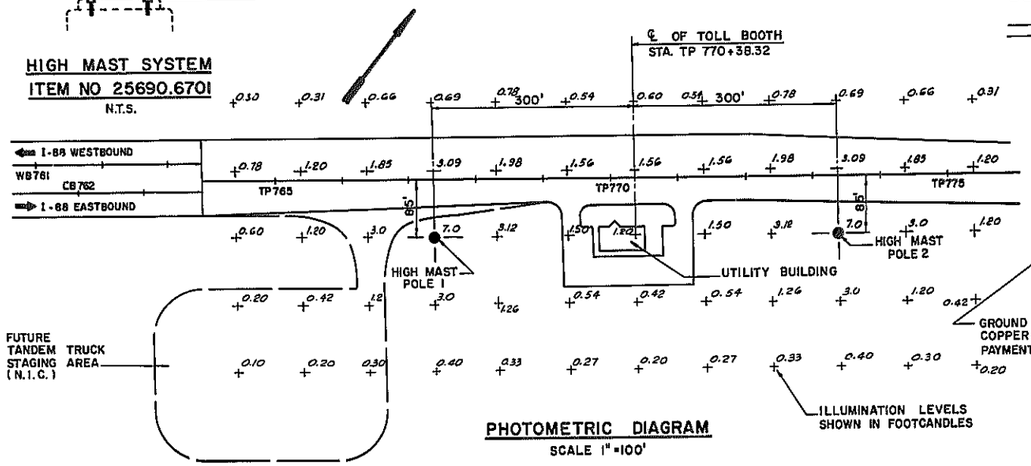
SECTION A-A
N.T.S.
THIS FOUNDATION FOR USE WITH HIGH MAST SYSTEM



POLE BASE
N.T.S.

NOTE: ANCHOR BOLTS AND NUTS ARE TO BE FURNISHED UNDER ITEM 25690.6701 HIGH MAST SYSTEM AND INSTALLED UNDER ITEM 670.01, "FOUNDATION FOR LIGHT STANDARDS."

FOUND. DEPTH	FOUND. DIAM.	ANCHOR BOLT LENGTH	ANCHOR BOLT DIAM.	NUMBER OF ANCHOR BOLTS	"P"	"T"	"S"	VERTICAL BARS	HORIZONTAL BARS
12'-0"	3'-6"	8'-0"	1 3/4"	6	3.5"	1.6"	25.75"	16 - #7 BARS 11'-7" LONG STR.	12 - #5 BARS 10'-0" LONG RD.



PHOTOMETRIC DIAGRAM
SCALE 1" = 100'

REVISIONS

Prepared and recommended
Bernard H. Schwartz Date 7-30-79
GOODKIND & O'DEA, INC.
Consulting Engineers

HIGH MAST SYSTEM AND TYPICAL FOUNDATION DETAILS
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

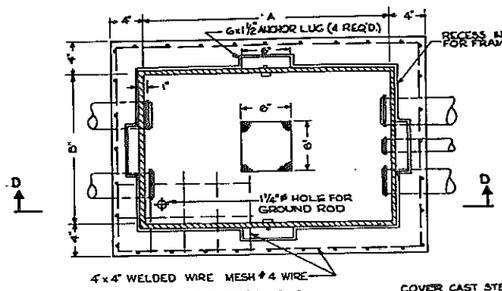
DWG. NO.	SCALE	DATE	
E-2	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

In Charge of R. HAEUTIER
Designed by B. SCHWARTZ
Design Checked by N. SPAVENTA
Detailed by K. DA COSTA
Detail Checked by H. LANE

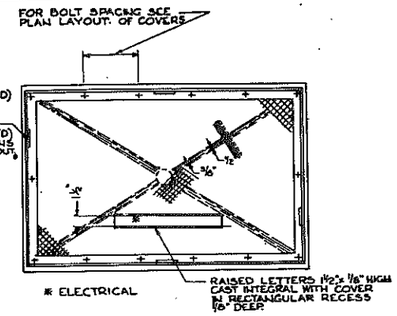
D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	I-88-2(10)	201-R1	284

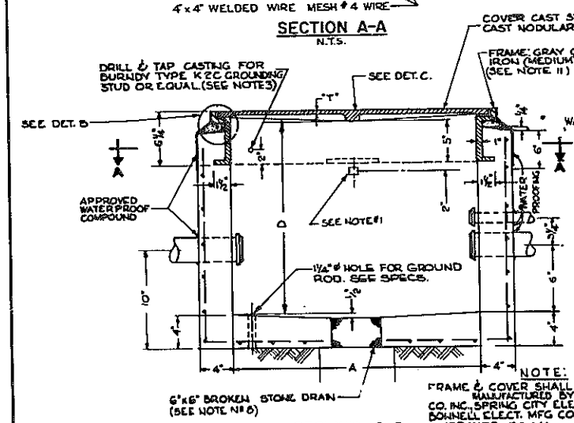
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY,
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



SECTION A-A
N.T.S.

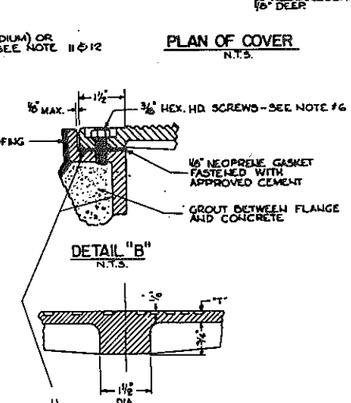


PLAN OF COVER
N.T.S.



SECTION D-D
N.T.S.

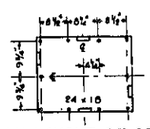
NOTE:
FRAME & COVER SHALL BE AS MANUFACTURED BY O.Z. ELECT. MFG. CO. INC., SPRING CITY ELECT. MFG. CO., BONNELL ELECT. MFG. CO. INC. OR APPROVED EQUAL



DETAIL "B"
N.T.S.

DETAIL "C"
N.T.S.

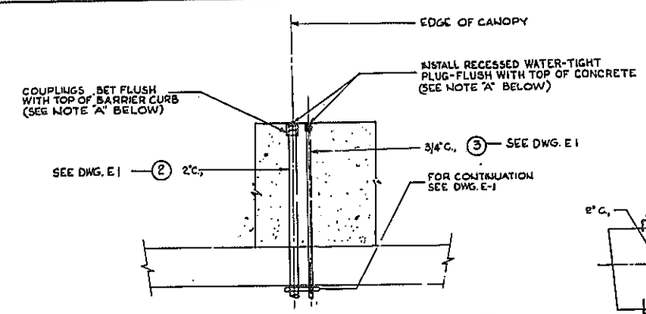
BOX NO.	TYPE	LENGTH A	WIDTH B	DEPTH D	MURRAY CAT. NO OR EQUAL STANCHIONS	HANGERS	INSERTS	"T"
2-R	24IB	24"	18"	2'-2"	RF 108	RG 107	RX004M	1"



PLAN LAYOUT OF COVER SHOWING BOLT SPACING AND LIFTING SLOT LOCATIONS
N.T.S.

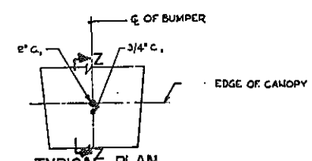
SYMBOL LIST - APPLIES TO DWG. NO'S E-4 & E-5 ONLY

- L.A: 27,29 — HOMERUN CONDUIT TO LIGHTING PANEL LA CONTAINING 2 CIRCUITS
- CONDUIT CONCEALED ABOVE FLOOR LEVEL. WITHOUT FURTHER DESIGNATION, CONDUIT CONTAINS 2 WIRES.
- INDICATES NUMBER OF WIRES WHEN MORE THAN 2 WIRES. N INDICATES NEUTRAL WIRE.
- CONDUIT CONCEALED BELOW FLOOR LEVEL. WITHOUT FURTHER DESIGNATION, CONDUIT CONTAINS 2 WIRES.
- CONDUIT EXPOSED TO VIEW, TIGHT TO WALL AS HIGH AS POSSIBLE OR AGAINST CEILING CONSTRUCTION - COVER PLATE FITTINGS. WITHOUT FURTHER DESIGNATION, CONDUIT CONTAINS 2 WIRES.
- E — CONDUIT CONTAINS WIRES FED FROM EMERGENCY SERVICE.
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN.
- LA — SURFACE-MOUNTED LIGHTING PANEL LA.
- PA — SURFACE-MOUNTED POWER PANEL PA.
- Sa — WALL TOGGLE SWITCH - S.P.S.T. - LETTER INDICATES FIXTURE (S) CONTROLLED.
- S3 — WALL TOGGLE SWITCH, 3 WAY
- POWER RECEPTACLE, 30A - 3P - 4W, - 120/208V (MATCH KITCHEN UNIT)
- Sp — WALL TOGGLE SWITCH - S.P.S.T. - WITH PILOT LIGHT
- MOTORIZED DAMPER
- WALL RECEPTACLE, DUPLEX, 15A, 125V GROUNDING TYPE MOUNT 1'-6" A.F.F. UNLESS OTHERWISE NOTED.
- W.P. — WEATHER PROOF WALL RECEPTACLE, SINGLE 15A, 125V GROUNDING TYPE WITH GROUND FAULT INTERRUPTER DEVICE (SEE SPECS.)
- CLOCK & CLOCK RECEPTACLE (SEE SPECS.)
- a — WALL SWITCH CONTROLLING OUTLET GROUP "a" MOUNT 4'-0" A.F.F.
- UTILITY TELEPHONE OUTLET: FACE PLATE WITH BUSHED HOLE AS REQUIRED BY TELEPHONE COMPANY, ORIENTATION AND HEIGHT, SAME AS FOR RECEPTACLE.
- RECESSED FLUORESCENT LIGHTING FIXTURE.
- b — PENDENT-MOUNTED INCANDESCENT, TYPE "C" CONTROLLED BY SWITCH "b" ON CIRCUIT NUMBER 3.
- BRACKET INCANDESCENT LIGHTING FIXTURE TYPE AS NOTED BY LETTER.
- PA-1 — 7½ HP MOTOR, DISCONNECT, AND STARTER. WIRE COMPLETELY TO PANEL INDICATED PA-1 THRU STARTER AND DISCONNECT SWITCH (SEE SPECS.) ON CIRCUIT NUMBER 1. ALSO INTERLOCK CIRCUITS WHERE CALLED FOR.
- MAGNETIC MOTOR STARTER. MOUNT 5'-0" A.F.F. UNLESS OTHERWISE NOTED.
- MANUAL MOTOR STARTER SURFACE-MOUNTED. MOUNT WITH ℄ 5'-0" A.F.F. MOUNT MANUFACTURER'S INSTRUCTION PLATE ON FACE PLATE.
- WALL MOUNTED COMMUNICATIONS HAND SET.



DETAIL OF CONDUIT FOR FUTURE EQUIPMENT
N.T.S.

SECTION Z-Z



TYPICAL PLAN
N.T.S.

NOTE "A" WHERE SIGN POST IS INSTALLED ON APPROACH SIDE, CONDUITS ARE TO TERMINATE INSIDE BASE AND BE BONDED TOGETHER AND TO BASE - SEE DWG. NO E-1. DETAILS AS SHOWN APPLIES TO TERMINATIONS WHERE NO POST IS PRESENTLY TO BE INSTALLED. THE 3/4" AND 2" CONDUIT CAN BE USED FOR THE WIRE FOR THE QUARTZ FLOODLIGHT IF APPROVED BY THE ENGINEER.

NOTES:

1 — ONLY ONE STANCHION IN CENTER OF EACH SIDE OF BOX.

2 — CONDUITS TO RIDE FREELY THROUGH BOXES FOR ALLOWANCE OF EXPANSION AND CONTRACTION.

3 — CONCRETE SHALL BE CLASS A

4 — FRAME AND COVER SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION

5 — FOR SIZE AND NO. OF CONDUITS ENTERING BOX, SEE CONTRACT PLANS.

6 — ALL NUTS, BOLTS, SCREWS, ETC. SHALL BE STAINLESS STEEL.

7 — FRAME AND COVER SHALL BE NEATLY FINISHED. THE THICKNESSES AS GIVEN SHALL BE UNIFORM THROUGH OUT FOR BOTH FRAME AND COVER. ACCEPTANCE OF COMPLETE ASSEMBLY SHALL BE SUBJECT TO THE APPROVAL OF THE FIELD REPRESENTATIVE.

8 — A 1 CU. FT. BROKEN STONE DRY WELL SHALL BE PROVIDED UNDER BOX DRAIN. ADDITIONALLY, 4" CORR. POLY UNDERDRAIN WAS INSTALLED AT JCT. BOXES TO PREVENT GROUNDWATER ACCUMULATING IN BOXES

9 A HANGER SHALL BE PROVIDED FOR EACH STANCHION ARM HOLE.

10 MANUFACTURERS UNUSED KNOCKOUTS SHALL BE PLUGGED.

11 CAST STEEL COVER SPEC. SHALL BE ASTM A-27-62, GRADE 70-40. CAST IRON FRAME SPEC. SHALL BE ASTM A-48-60.T CLASS 30.

12 AS AN ALTERNATE, COVER MAY BE CAST NODULAR IRON PER ASTM A339-55, GRADE 60-45-10

13 BOND CONDUITS TOGETHER, TO FRAME ℄, TO GROUND ROD WITH #8 BARE GROUND WIRE.

ROADWAY TYPE CONCRETE JUNCTION BOX
N.T.S.

REVISIONS

Prepared and recommended
Bernard H. Schwartz Date 7-30-79
GOODKIND & O'DEA, INC.
Consulting Engineers

SYMBOL LIST AND DETAILS FOR ROADWAY TYPE CONC. JUNCTION BOX

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

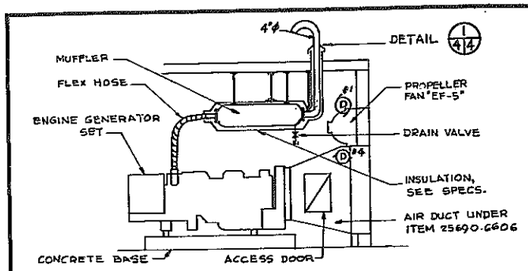
DWG. NO.	SCALE	DATE		
E-3	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc.	CONSULTING ENGINEERS

Designed by B. SCHWARTZ
Made by B. HAEUTZER
Traced by N. DA COSTA
Checked by N. SANVENTA

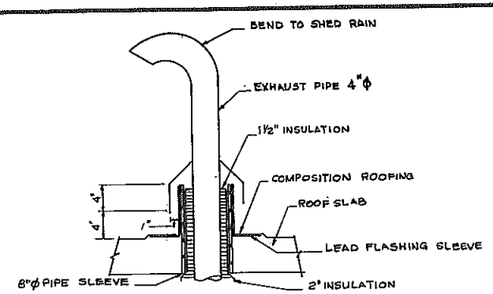
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	202 & 1	284

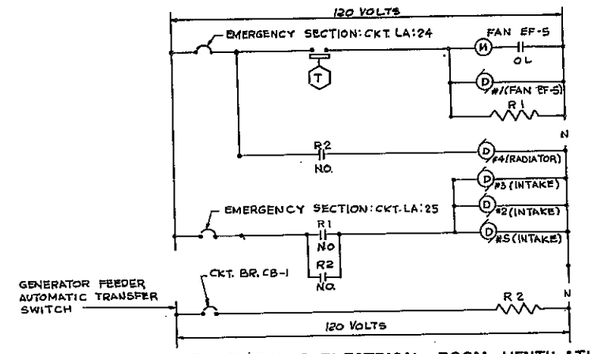
INTERSTATE ROUTE 508
ROUTE 7 CONNECTOR TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



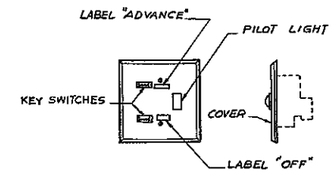
SECTION - A/4/4



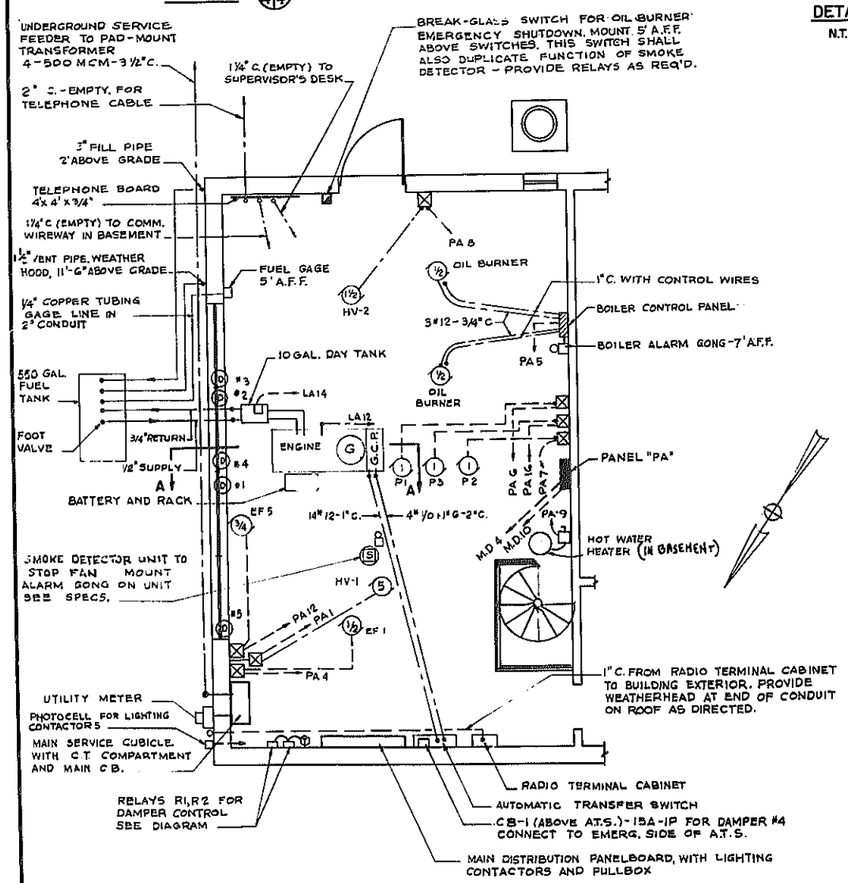
DETAIL - 1/4/4
N.T.S.



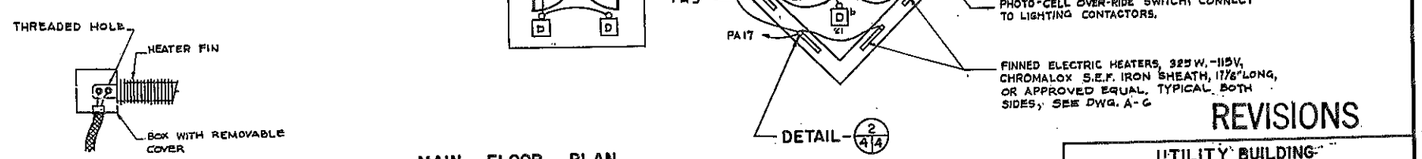
MECHANICAL & ELECTRICAL ROOM VENTILATION WIRING DIAGRAM
N.T.S.



CLOCK CONTROL UNIT
N.T.S.



PART FLOOR PLAN
SCALE: 1/4" = 1'-0"



DETAIL - 2/4/4
N.T.S.
(shown with front cover removed)

MAIN FLOOR PLAN
SCALE: 1/4" = 1'-0"

NOTE: TYPES A & B LIGHT FIXTURES WERE MODIFIED IN ORDER TO BE COMPATIBLE WITH SUSPENDED CEILING

Prepared and recommended
Bernard H. Schwartz Date 7-30-79
GOODKIND & O'DEA, INC.
Consulting Engineers

REVISIONS

UTILITY BUILDING
ELECTRICAL POWER & LIGHTING PLAN
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

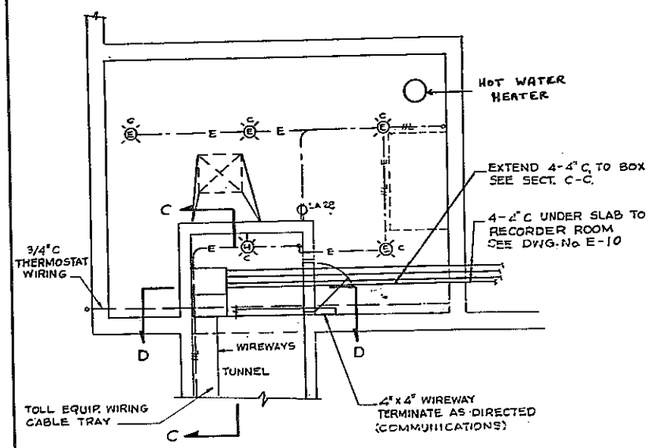
DWG. NO.	SCALE	DATE	
E-4	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

In Charge of R. KREULER
Designed by B. SCHWARTZ
Design Checked by N. SPIVOUTS
Detailed by N. DA COSTA
Detail Checked by W. LANE

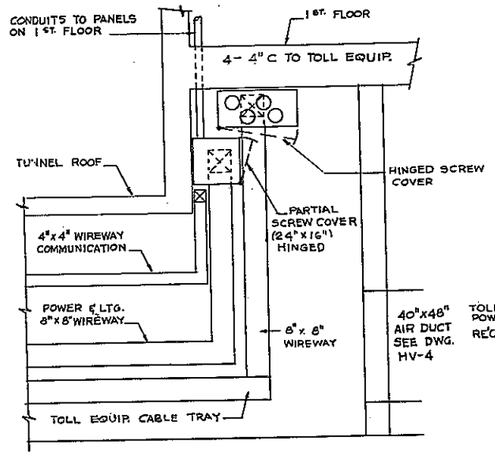
D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	I-88-2(10)	203 R.1	284

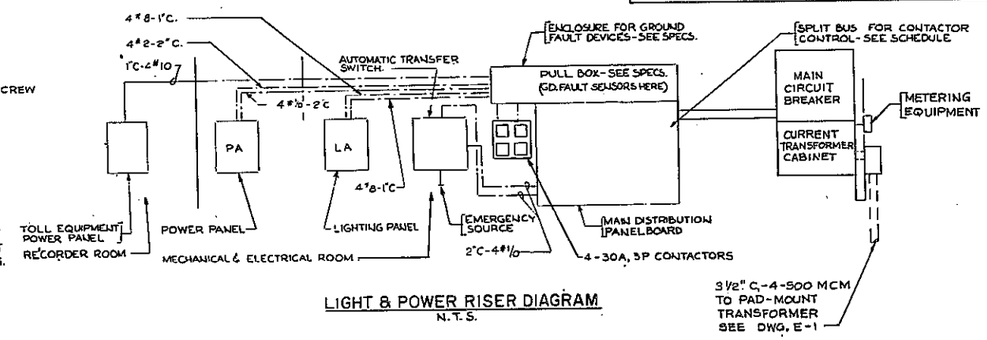
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY,
SCHENECTADY-DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY



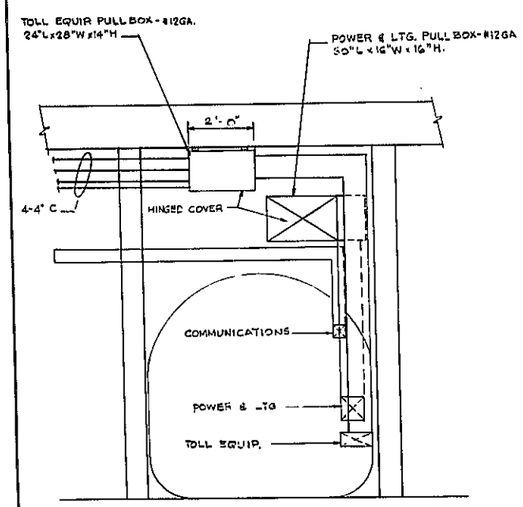
BASEMENT PLAN
SCALE 1/4" = 1'-0"



SECTION C-C
SCALE 1/2" = 1'-0"



LIGHT & POWER RISER DIAGRAM
N.T.S.



SECTION D-D
SCALE 1/2" = 1'-0"

TOLL EQUIP. POWER PANEL		
CKT	SIZE	SERVES
1	IP-20A	POWER SUPPLY "A"
2	IP-20A	POWER SUPPLY "B"
3	IP-20A	SPARE
4	IP-20A	SPARE

POWER PANEL "PA" SCHEDULE

CKT.	SERVICES	HP (KW)	FULL RUN AMPS	CIRCUIT BREAKER POLES	CIRCUIT BREAKER SIZE	CIRCUIT BREAKER TRIP	REMARKS	
1	H.V-1	5	17.5	3	100	40	3 #8	EMERGENCY SECTION
2	SUMP PUMP	1/2	5.0	2	100	15	3 #10	
3	2 UH 2@ 325	.75	6.25	1	100	15		
4	EF-1	(1/2)	3.0	2-1	100	15		
5	F.O BURNERS (2)	1	9.0	2-1	100	20	4 #10	
6	PUMP - P-1	1	4.2	3	100	15		
7	PUMP - P-2	1	4.2	3	100	15		
8	H.V-2	1 1/2	6.0	3	100	15		
9	H.W HEATER	(2)	10.0	2	100	20		
10	EF-2, EF-3	1/6	4.4	1	100	15		
11	EF-4	1/8	3.0	1	100	15		
12	EF-5	3/4	3.0	3	100	15		
13-14	SPARES	-	-	1	100	—		
15				3	100			
16	PUMP (SPARE) P-3	1	4.2	3	100	15		NORMAL SECTION
17	2 UH 2@ 325	.75	6.25	1	100	15		
18	VENDG. MCHN.	(3)	15.0	2	100	30	3 #10	
19	KITCHEN UNIT	(6.0)	30.0	2	100	40	3 # 8	
20	SPARE	—	—	3	100	20		
21-22	SPARES	—	—	1	100	15		

MAIN DISTRIBUTION PANELBOARD SCHEDULE

	FEEDER	AMPS PER PHASE	ULTIMATE CONNEC. KVA	CIRCUIT BREAKER SIZE	POLES	AMPS TRIP	FEEDER SIZE PHASE	NEUT. (GND)	COND.	REMARKS	TO
NORMAL SECTION	1.	10.4	6.6	100	3	30	#6	#6	1 1/2"		SITE LIGHTING (THRU 30A CONTACTORS)
	2	10.4	6.6	100	3	30	#6	#6	1 1/2"		SITE LIGHTING
	3	14.0	4.8	100	3	30	#6	#6	1 1/2"		CANOPY LIGHTING
	4	109.0	28.0	225	3	150	#1/0	#1/0	2"		POWER PANEL "PA"
	5	50.0	18.0	225	3	100	#2	—	1 1/4"		TOLL BOOTH ELECTRIC HTRS.
	6	13.0	4.6	100	3	50	#8	#8	1"		LIGHTING PANEL "LA"
	SUB-FEEDER	95.5	34.1	225	3	150	#1/0	#1/0	2"	TO AUTOMATIC TRANSFER SWITCH	
	SPARE	—	—	100	3						
	SPARE	—	—	100	3						
	TOTAL - NORMAL -		47.5								
EMERGENCY SECTION	7.	12	3.0	100	3	50	#10	#10	1"		TOLL EQUIP. POWER PANEL
	8	10	3.5	100	3	50	#6	—	1"		BOOTH H.V. UNITS
	9	6.0	2.0	100	3	20	#8	#8	1"		LIGHTING PANEL "LA"
	10	43.0	15.2	100	3	100	#2	#2	1 1/2"		POWER PANEL "PA"
	11	20.0	7.0	100	3	50	#6	#6	1 1/2"		TOLL BOOTH PANELS
	12	8.0	1.0	100	1	20	#12	#12	3/4"		TUNNEL LTG. & RECEPTACLES.
	2 SPARES	—	--	100 / 100	3 / 3	—	—	—	—		
	13	7.0	2.4	100	3	30	#8	#8	1"	RUN WITH FOR #3	CANOPY LTG - THRU 30A CONTACTOR
	TOTAL - EMERG.		34.1								
	TOTAL - PLAZA		81.6								

LIGHTING PANEL "LA" SCHEDULE

	CIRCUIT NUMBER	TRIP AMPS	DESCRIPTION OF LOAD	NO. OUTS. LTG	NO. OUTS. REC	LOAD VA	VA PER PHASE A	B	C	LOAD VA	NO. OUTS REC	NO. OUTS LTG	DESCRIPTION OF LOAD	TRIP AMPS	CIRCUIT NUMBER
NORMAL SECTION	1	15	LTG.-STORAGE & RECORDER RM.	2	-	200	600			700	-	3	LTG.- OFFICE & JAN. CLOSET	15	2
	3		SPARE	-	-	—		300		300	-	3	LTG.- OFFICE		4
	5		REC. - KITCHEN, & OFFICE	-	-	—			600	600	-	4	LTG.- MECH. & ELEC. RM.		6
	7		REC.-STORAGE & RECORDER RM.	-	2	500	600			300	1	-	REC.- SERVICE MODULE		8
	9		REC.- RECORDER RM. & OUTDOOR	-	2	500		500		-	2	-	REC.- JAN CLOSET & ME. RM.		10
	11		REC.- OFFICE & MENS ROOM	-	3	500			700	200	1	-	IMMERSION HTR.		12
	13		REC.- M. & E. RM. & OUTDOOR	-	2	500	500						DAY TANK		14
	15		SPARE					—					SPARE		16
	17									—					18
EMERG. SECTION	19	15	LTG.-CASE STOR. & REC. RM.	3	-	300	750			450	-	5	LTG.- OFFICE	15	20
	21		LTG.- OFFICE LUNCH ROOM	4	-	375		825		450	-	3	LTG.- MECH. & ELEC. RM.		22
	23		REC.- OFFICE & M. & E. RM.	-	3	500			800	1 -	-	-	VENTILATION CONTROL		24
	25		VENTILATION CONTROL	-	-	—	—				-	2	TEL. BOOTHS		26
	27		LIGHTING TUNNEL	15	4	975		975			6	-	REC. TUNNEL		28
	29		CLOCK CONTROL CIRC.	-	-	—			300	300	-	3	LTG. SUPPLY CL. & TOILETS		30
	31		LTG LOCKERS	3	-	300	300			—	-	-	SPARE		32
	33		SPARE	-	-	—				—	-	-	SPARE		34

Prepared and recommended
Bernard H. Schwartz Date 7-30-79
GOODKIND & O'DEA, INC.
Consulting Engineers

REVISIONS

BASEMENT-UTILITY BUILDING AND DISTRIBUTION DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

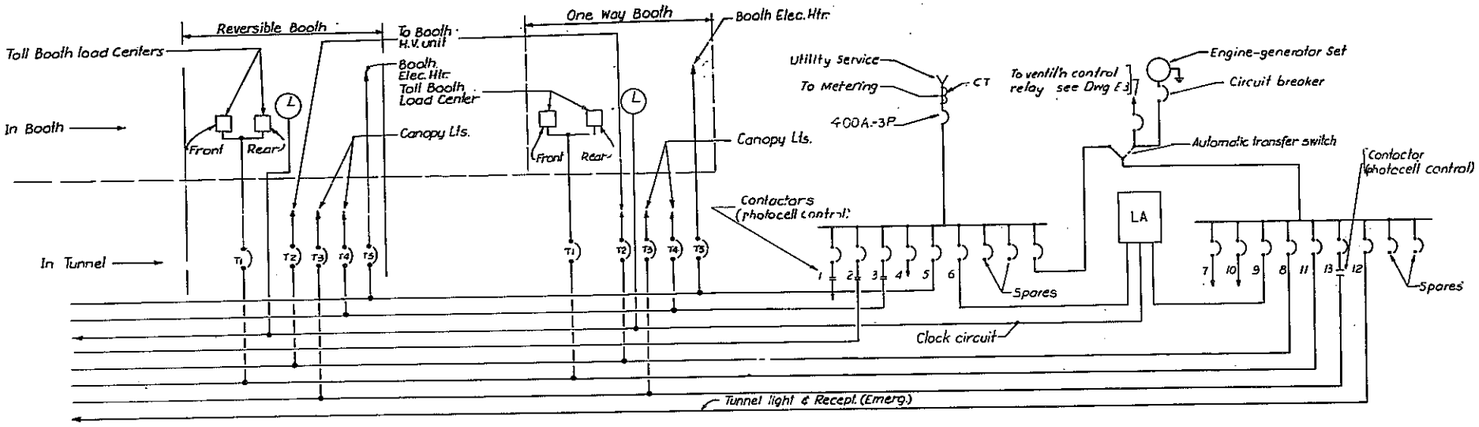
DWG. NO.	SCALE	DATE	
E-5	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

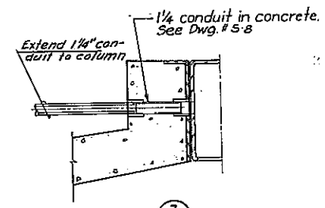
Designed by B. SCHWARTZ
Made by R. KREUTZER
Traced by N. DACOSTA
Checked by N. SPAVENTA

D96243

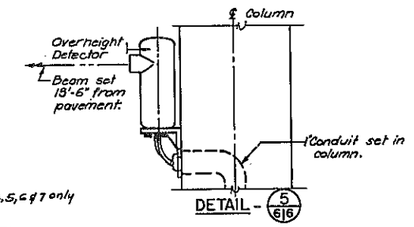
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	204R1	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY--DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

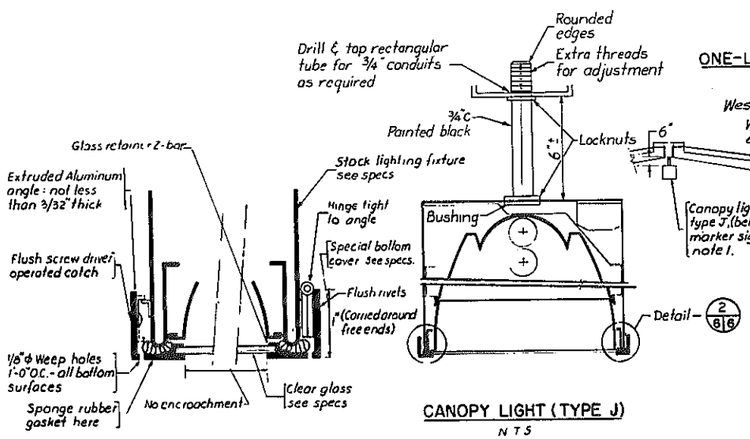




DETAIL - 3/6&6
N.T.S.



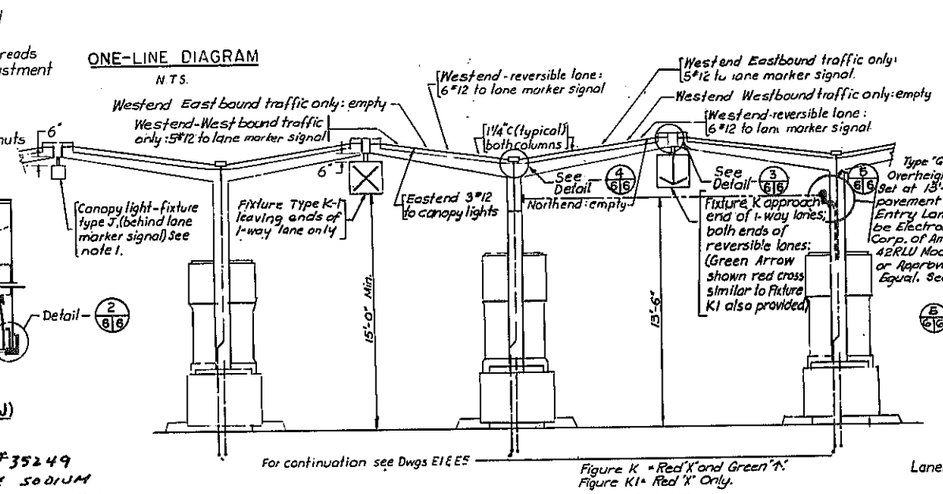
DETAIL - 5/6&6



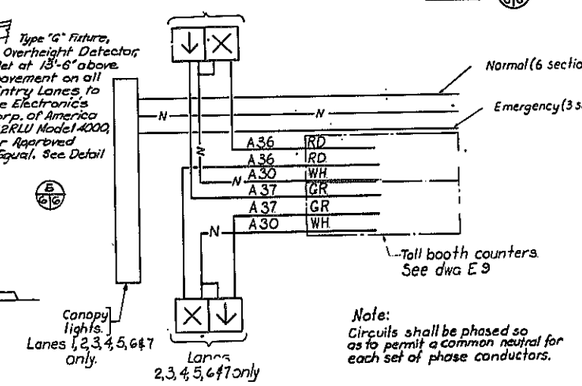
DETAIL - 2/6&6
N.T.S.

CANOPY LIGHT (TYPE J)
N.T.S.

NOTE: A PARAMOUNT #35249 150W HIGH PRESSURE SODIUM FIXTURE WAS SUBSTITUTED FOR THE TYPE "J" FIXTURE



PARTIAL ELEVATION OF TOLL PLAZA CANOPY
LOOKING SOUTH - TYPICAL
Scale 1/4" = 1'-0"



Note:
Circuits shall be phased so as to permit a common neutral for each set of phase conductors.

CANOPY LIGHT AND LANE MARKER SIGNAL WIRING DIAGRAM.
(Typical for reversible lanes)
Note - At one-way lanes ▨ at approach end, ⊠ at leaving end.

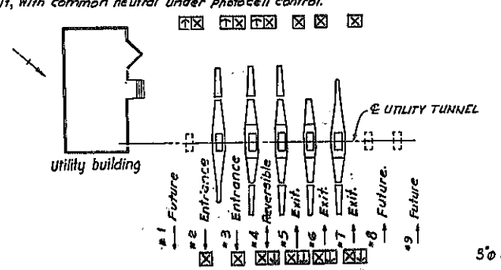
TOLL BOOTH LOAD CENTERS			
NO.	RATING	SERVES	
B1	1P-15A	Booth Light	
B2	1P-20A	Axle Light (See Dwg. E-1)	✳
B3	1P-15A	Booth receptacle	
B4	1P-20A	Spare	
B5	1P-15A	Intercom. Loudspeaker	△
B6	1P-20A	Spare	
B7	1P-15A	Thermostat Controls	△
B8	1P-20A	Spare	

△ - Spare in rear counter.
✳ - Entrance lanes only.

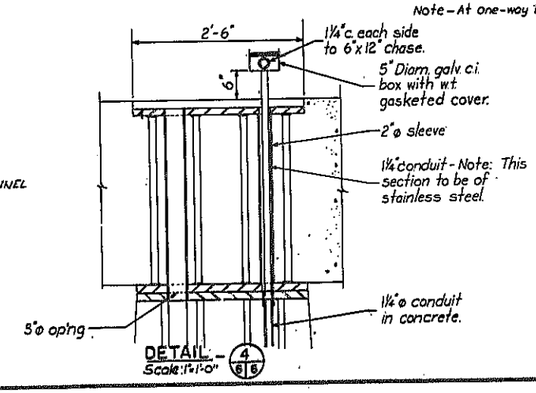
TUNNEL CIRCUIT BREAKER SCHEDULE		
NO.	RATING	SERVES
T1	3P 30A	Toll booth Load Centers #
T2	3P 20A	Ventilation Unit #
T3	1P 15A	Canopy Ltg. (Emergency)
T4	1P 15A	Canopy Ltg. (Normal.)
T5	2P 20A	Toll booth Heater *

* Spare for lanes 1, 7 & 8 only

Note:
Fixture "J" shall be continuous row of 9 4'-0" lengths as indicated on Dwg. No. A-13. Mount at height indicated on that Dwg. Typical for Lanes 1,2,3,4,5,6 & 7. Sections shall be wired 1 & 6 on "normal" circuit 3 on emergency circuit, with common neutral under photocell control.



PLAN OF TOLL PLAZA
N.T.S.
For dimensions see Dwg. E-1



DETAIL - 4/6&6
Scale: 1" = 1'-0"

DETAIL NUMBER
SHEET DETAIL LOCATED
SHEET DETAIL APPEARS

Prepared and recommended
Bernard H. Schwartz Date 7-30-79
GOODKIND & O'DEA, INC.
Consulting Engineers

REVISIONS

TOLL PLAZA
MISCELLANEOUS DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

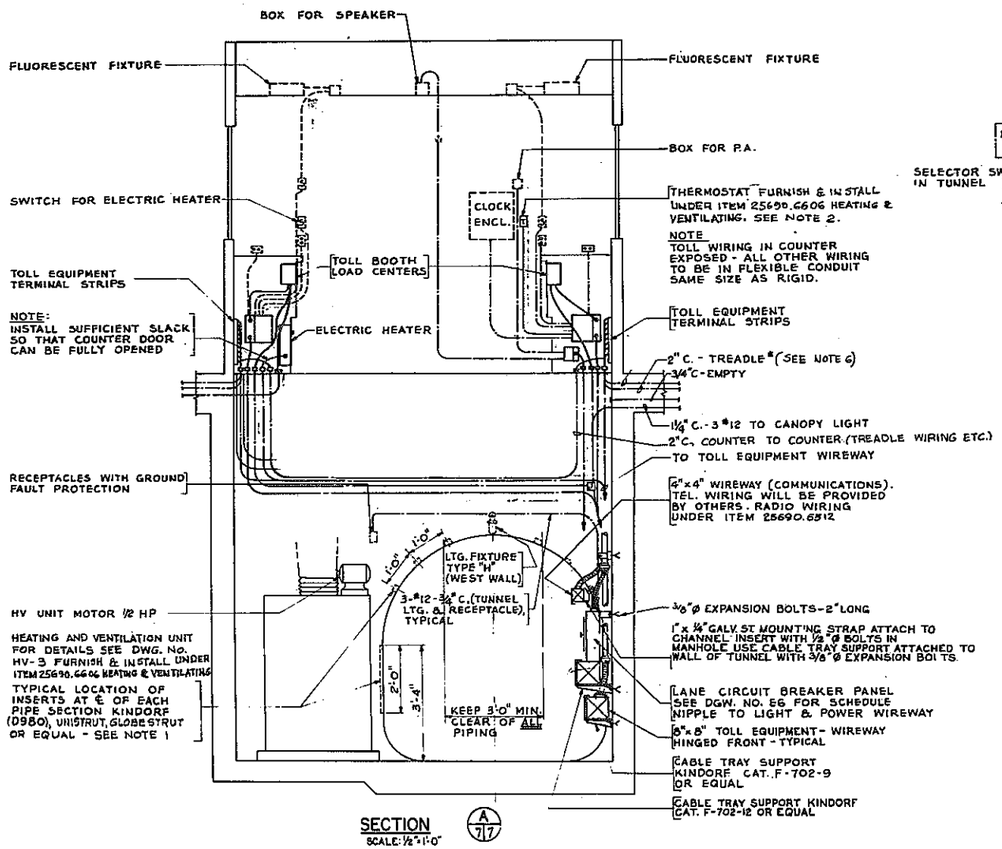
DWG. NO.	SCALE	DATE	
E-6	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

Designed by B. SCHWARTZ
Made by R. NEUTZER
Traced by N. DA COSTA
Checked by N. SPAVENTA

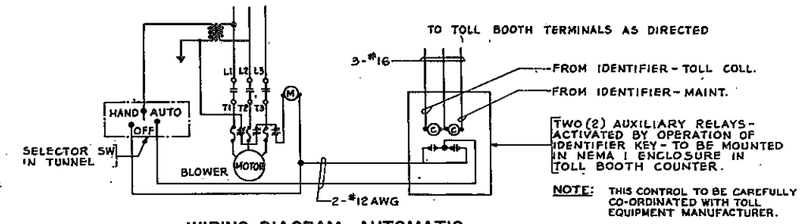
D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	205	284

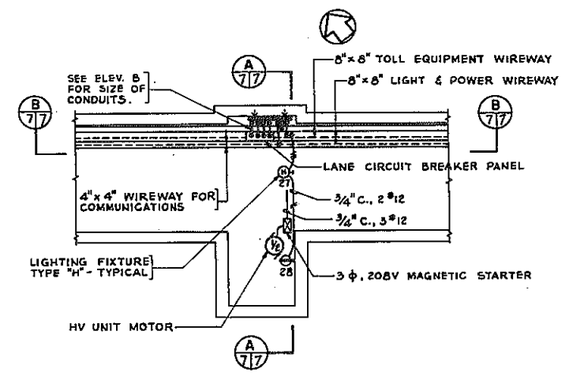
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



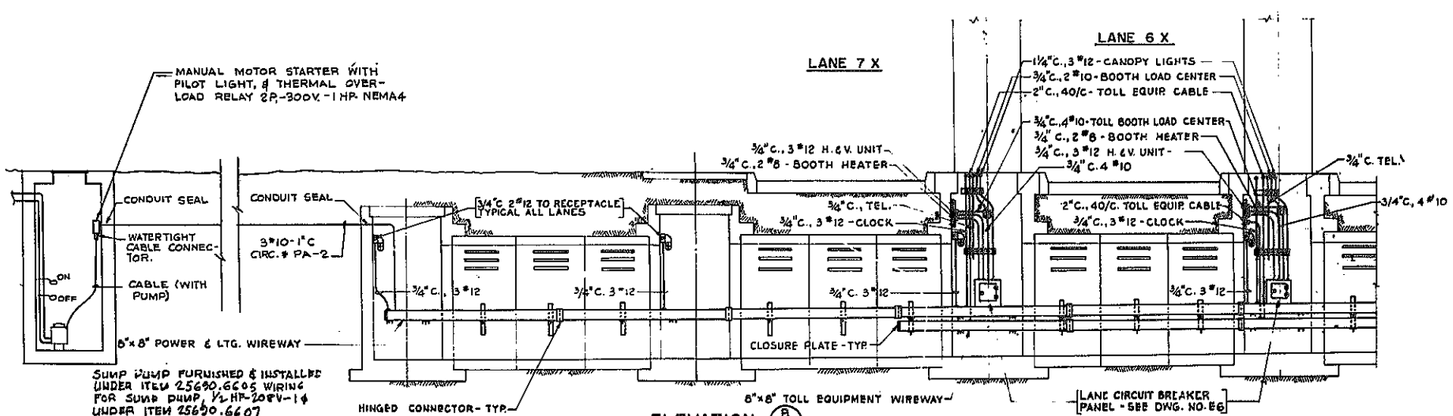
SECTION (A 7/7)
SCALE: 1/2"=1'-0"



WIRING DIAGRAM - AUTOMATIC BLOWER MOTOR CONTROL
N.T.S.



TYPICAL PARTIAL PLAN OF TUNNEL
SCALE: 1/4" = 1'-0"



ELEVATION (B 7/7)
SCALE: 1/4" = 1'-0"
(TYPICAL SECTION THRU TUNNEL)

NOTES

1. - SECURE CABLE TRAYS AND WIREWAYS TO INSERTS PROVIDED UNDER ITEM 25690.6374 PROVIDE ADAPTERS AS REQUIRED. SEE SPECS. FOR ADDITIONAL INFORMATION.
2. - THERMOSTAT CONTROL WIRING (LOW VOLTAGE): CONNECT THERMOSTAT TO VALVE MOTOR AND TRANSFORMER (SEE DWG. HV-3) UNDER ITEM 25690.6607, ELECTRICAL WORK
3. - CONDUIT SHALL NOT TOUCH DUCTS OR BE SUPPORTED FROM THEM.
4. - FOR LEGEND SEE SHEET E-3.
5. - BOND CONDUITS & WIREWAYS TOGETHER.
6. - SEE DWG. E-1 FOR LOCATION AT EACH BOOTH & PLAN OF TOLL PLAZA ON DWG E-6

Prepared and recommended
Bernard H. Schwartz Date 7-30-79
GOODKIND & O'DEA, INC.
Consulting Engineers

TOLL PLAZA
UTILITY TUNNEL DETAILS
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

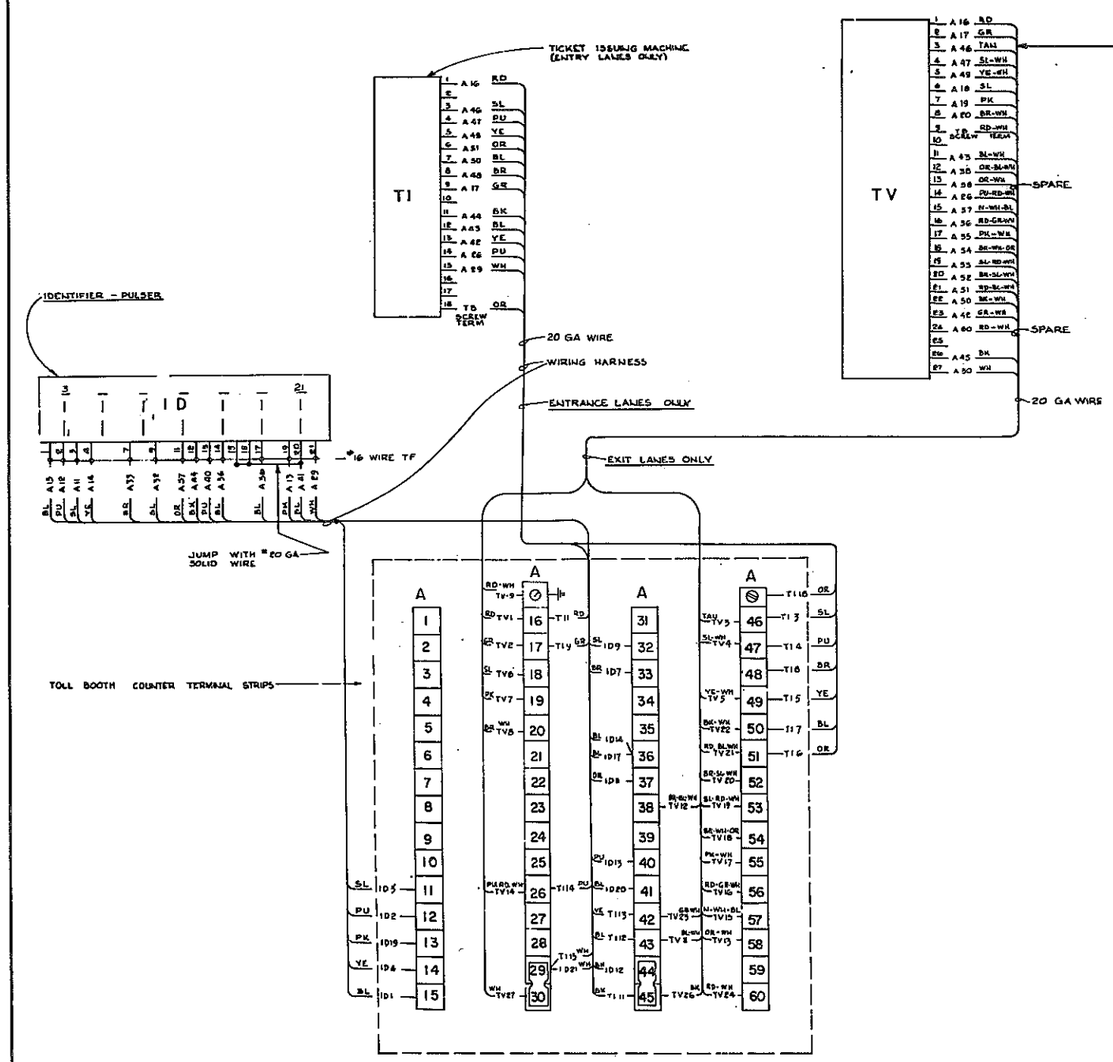
DWG. NO.	SCALE	DATE	
E-7	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

Designed by B. SCHWARTZ
Made by R. HREUTZER
Traced by N. DA COSTA
Checked by N. SANVENTA

D96243

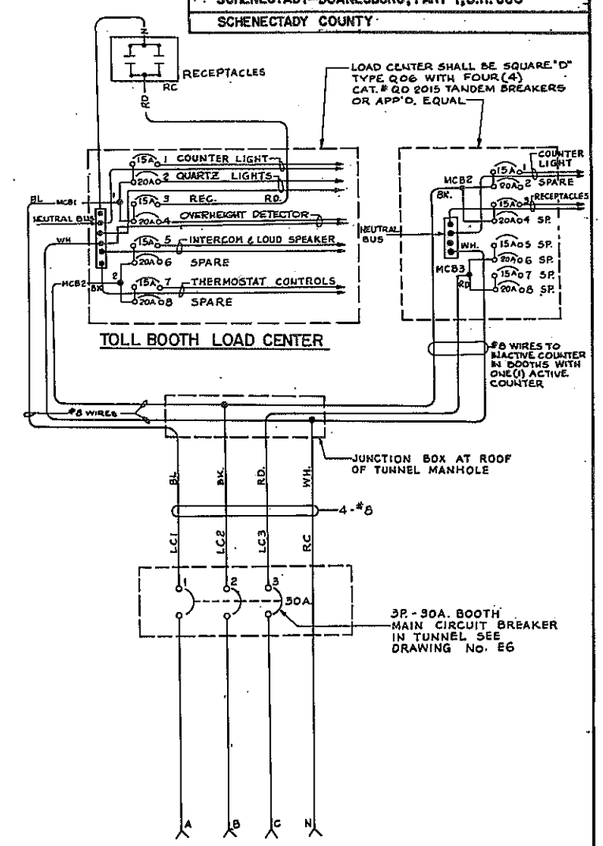
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	206	284

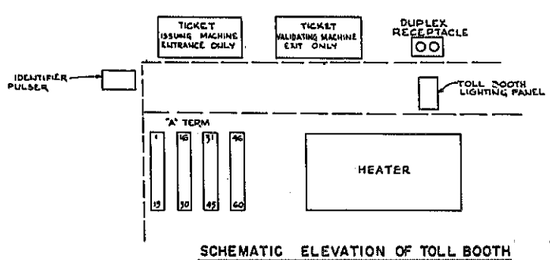
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



FRONT TOLL BOOTH LOAD CENTER				
CIR.	RATING	PART SUPPLIED	CONN LOAD	REMARKS
1	IP-15A	COUNTER LIGHT	100 W	(4-20W FLUOR)
2	IP-20A	QUARTZ LIGHT	500 W	*
3	IP-15A	RECEPTACLES	——	
4	IP-20A	OVERHEIGHT DETCTR	——	
5	IP-15A	INTERCOM LOUD SPEAKER	50 W	△
6	IP-20A	SPARE	——	
7	IP-15A	THERMOSTAT CONTROLS	——	△
8	IP-20A	SPARE	——	

* ENTRANCE LANES ONLY
△ SPARE IN REAR COUNTER





SCHEMATIC ELEVATION OF TOLL BOOTH COUNTER
N. T. S.

Designed by B. SCHWARTZ
Made by R. KREUTZER
Traced by M. DA COSTA
Checked by N. SPAVENTA

Prepared and recommended
Bernard H. Schwartz Date 7-30-79
GOODKIND & O'DEA, INC.
Consulting Engineers

TOLL BOOTH EQUIPMENT WIRING

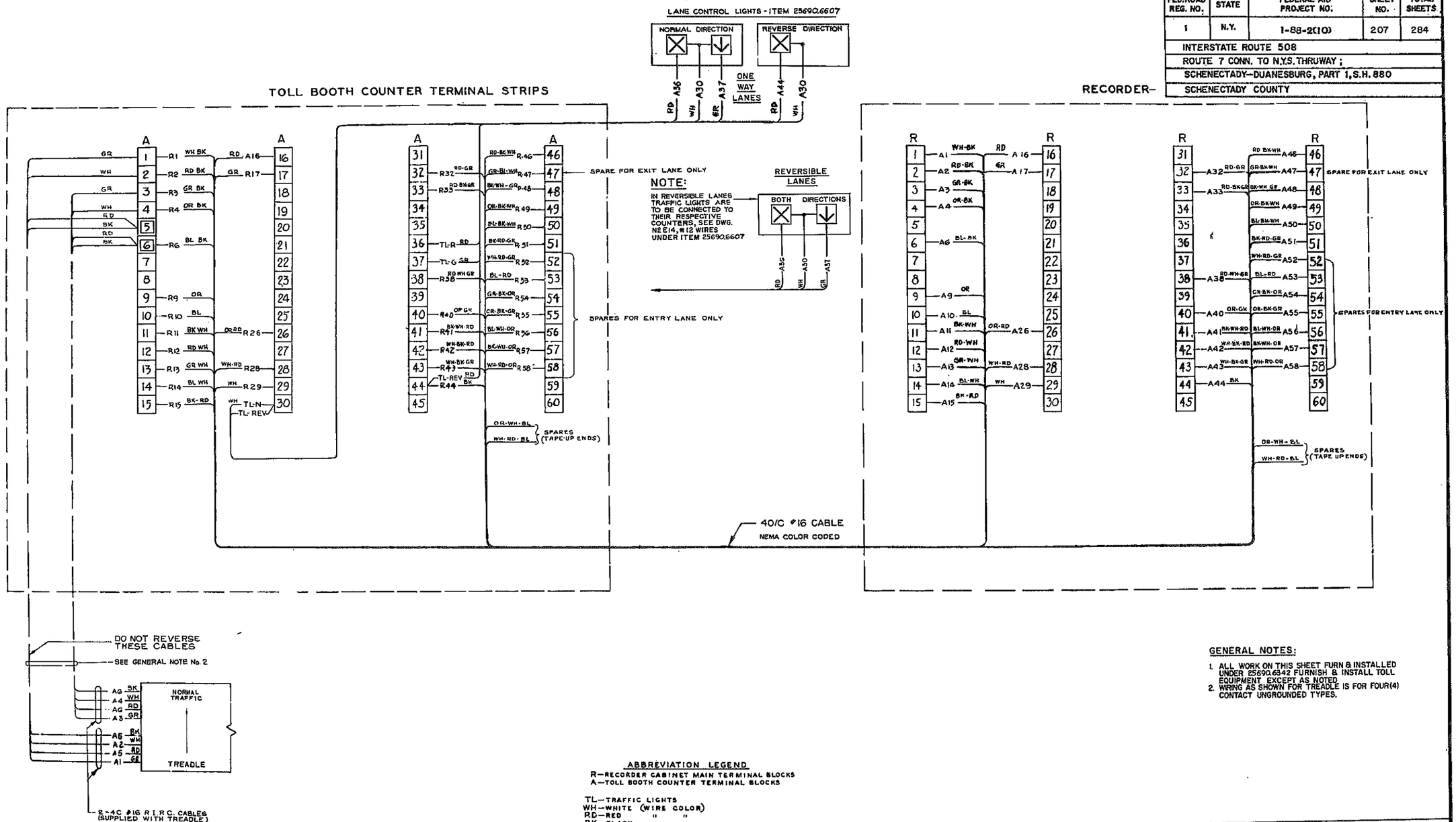
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DWG. NO.	SCALE	DATE	
E-8	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1-88-2(10)	207	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



NOTE:
WIRING FOR TREADLE AS SHOWN APPLIES TO 4/C NON GROUNDED TREADLES.

ABBREVIATION LEGEND
R—RECORDER CABINET MAIN TERMINAL BLOCKS
A—TOLL BOOTH COUNTER TERMINAL BLOCKS

TL—TRAFFIC LIGHTS
WH—WHITE (WIRE COLOR)
RD—RED " "
BK—BLACK " "
GR—GREEN " "
BL—BLUE " "
OR—ORANGE " "

GENERAL NOTES:
1. ALL WORK ON THIS SHEET FURN & INSTALLED UNDER 25690.6342 FURNISH & INSTALL TOLL EQUIPMENT EXCEPT AS NOTED.
2. WIRING AS SHOWN FOR TREADLE IS FOR FOUR(4) CONTACT UNGROUNDED TYPES.

Prepared and recommended
Bernard H. Schwartz Date 7-30-79
GOODKIND & O'DEA, INC.
Consulting Engineers

TOLL EQUIPMENT WIRING DIAGRAM
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

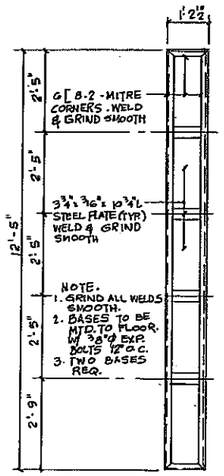
DWG. NO.	SCALE	DATE	
E-9	NONE	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

Designed by B. SCHWARTZ
Made by R. HAEUTZER
Traced by N. DA COSTA
Checked by N. SPAVENTA

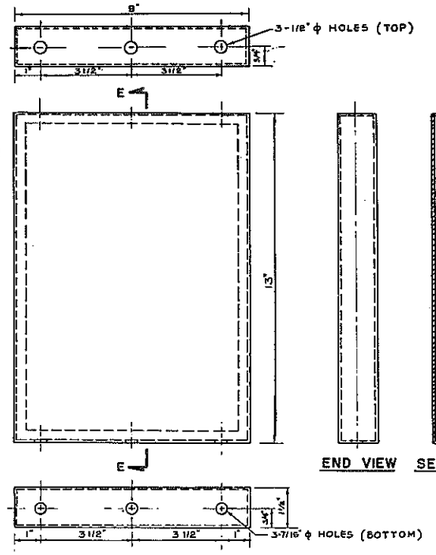
D96243

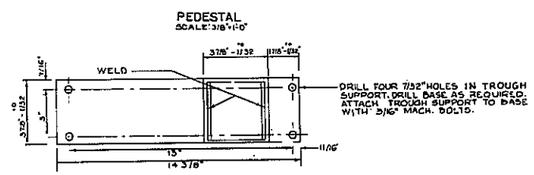
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	NEW YORK	I-88-2(10)	208	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

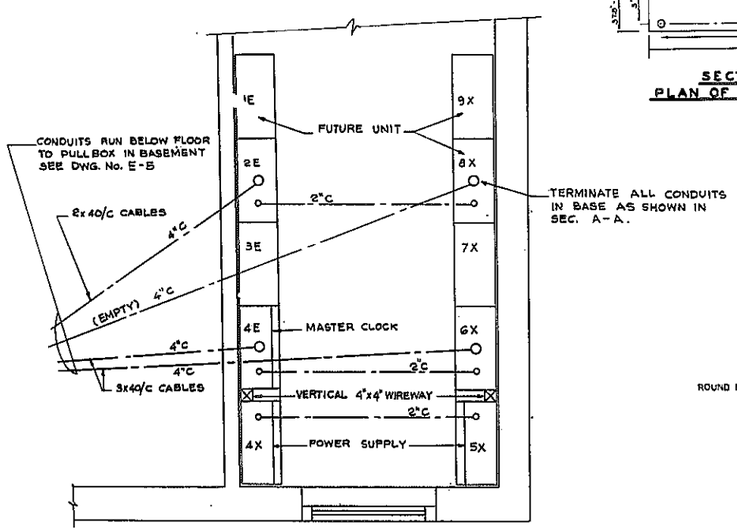


RECORDER BASES
(SEE NOTES 2 & 3)
SCALE 1/2" = 1'-0"

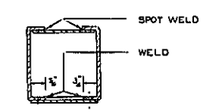




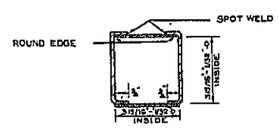
SECTION B-B
PLAN OF TROUGH SUPPORT TWO (2) REQ'D
(SCALE: 3" = 1'-0")



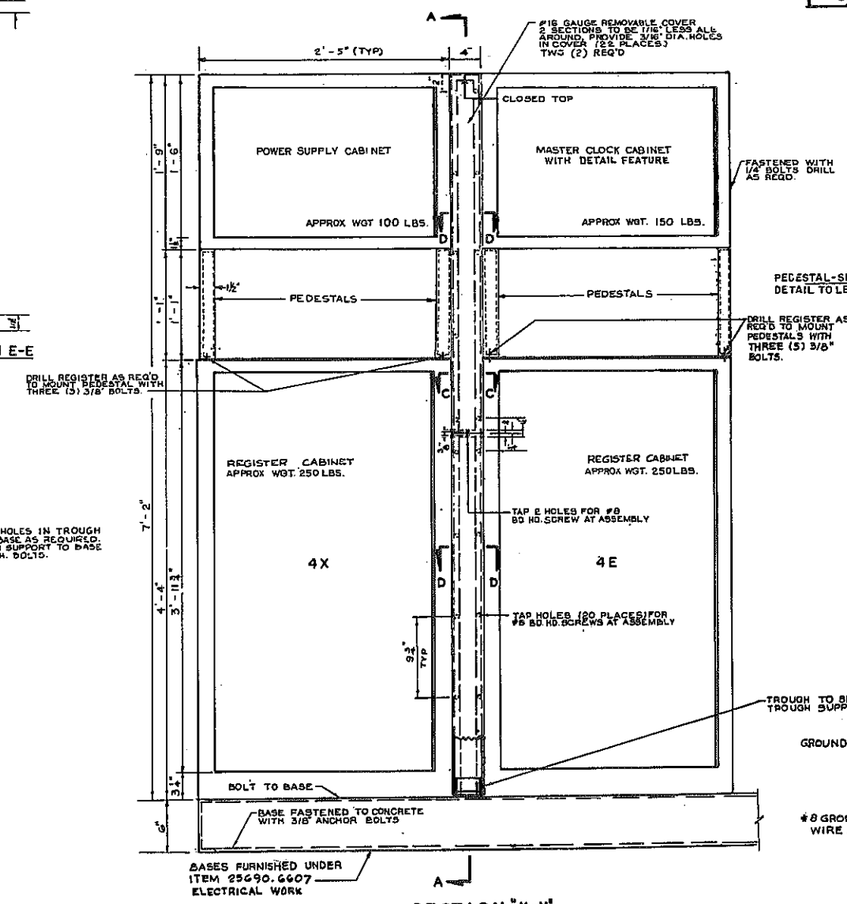
RECORDER ROOM
TOLL EQUIPMENT LAYOUT
SCALE: 1½" = 1'-0"



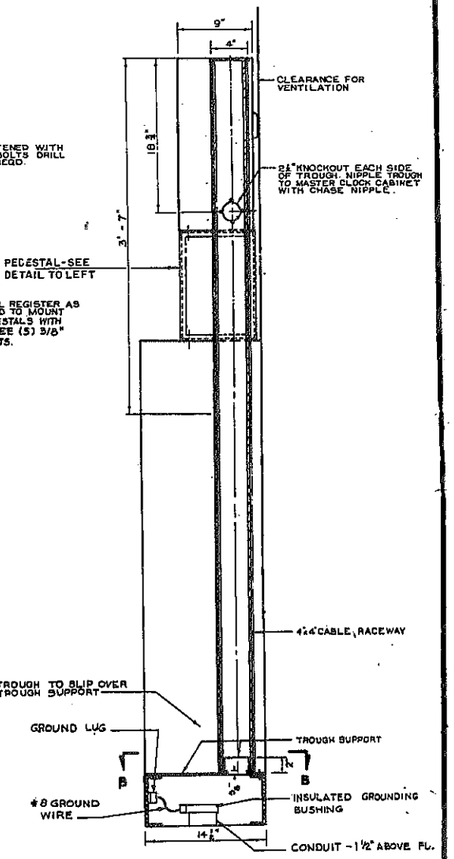
SECTION C-C
(SCALE: 3" = 1'-0")



SECTION D-D
(SCALE: 3" = 1'-0")



SECTION "X-X"
SHOWING TYPICAL MOUNTING DETAILS FOR TOLL EQUIPMENT UNITS IN RECORDER ROOM
SCALE: 1½" = 1'-0"



SECTION A-A
SCALE: 1½" = 1'-0"

NOTE:
1. WITH EXCEPTION OF BASE, ALL WORK ON THIS SHEET WILL BE FURNISHED AND INSTALLED UNDER ITEM 25690.06342
2. BASE SHALL EXTEND TO INCLUDE FUTURE UNITS. PROVIDE #12 GA. SCREW COVERS OVER OPENINGS ON BASE FOR FUTURE UNITS
3. RECORDER BASES WILL BE FURNISHED UNDER ITEM-25690.6607, ELECTRICAL WORK

Prepared and recommended
Bernard H. Schmitt Date 7-30-79
GOODKIND & O'DEA, INC.
Consulting Engineers

RECORDER DETAILS
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

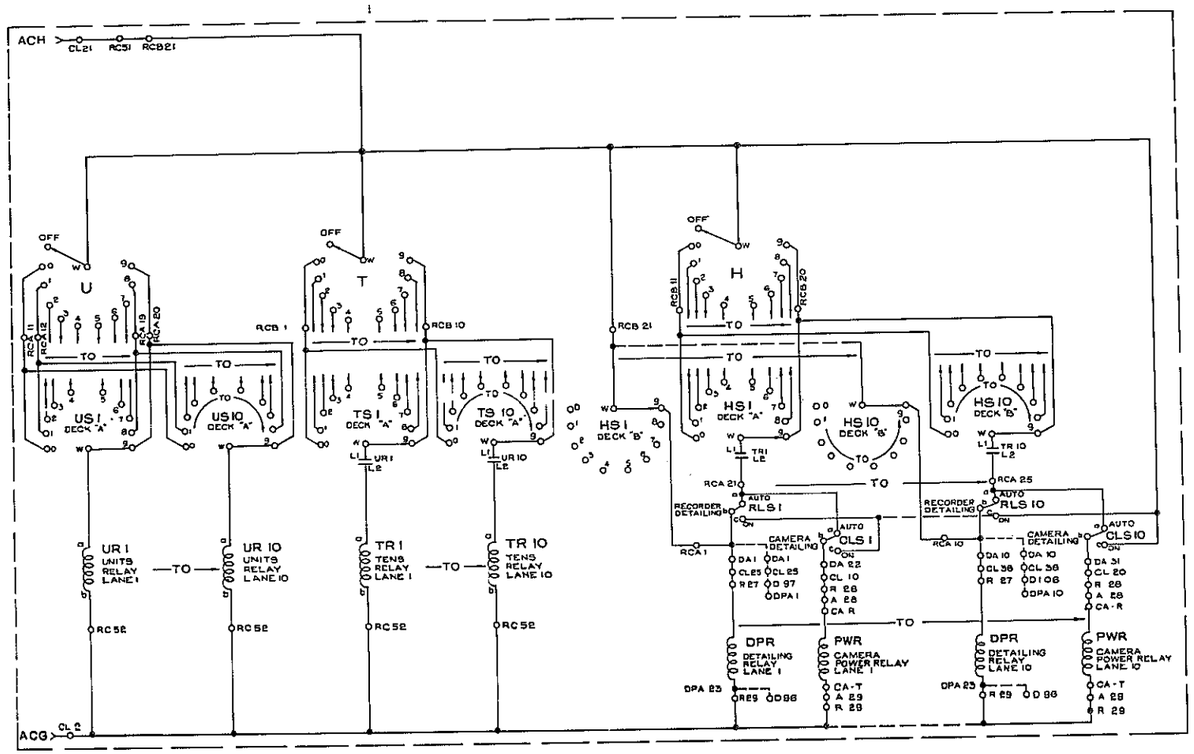
DWG. NO.	SCALE	DATE	
E-10	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

Issue by ..... M. Da COSTA
Traced by ..... M. Da COSTA
Checked by ..... M. SPANGLER

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	20921	284

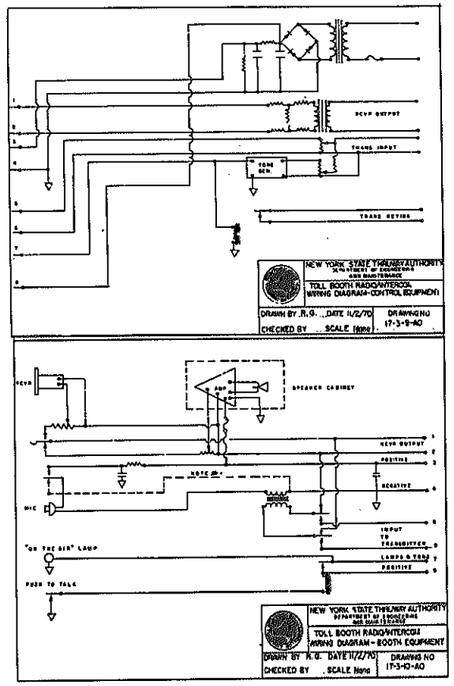
INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

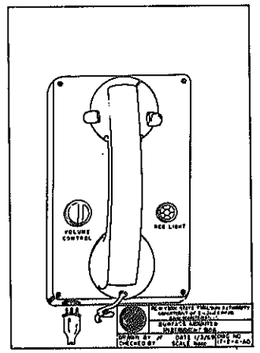


COLLECTOR DETAILING SCHEMATIC WIRING DIAGRAM

N.T.S.

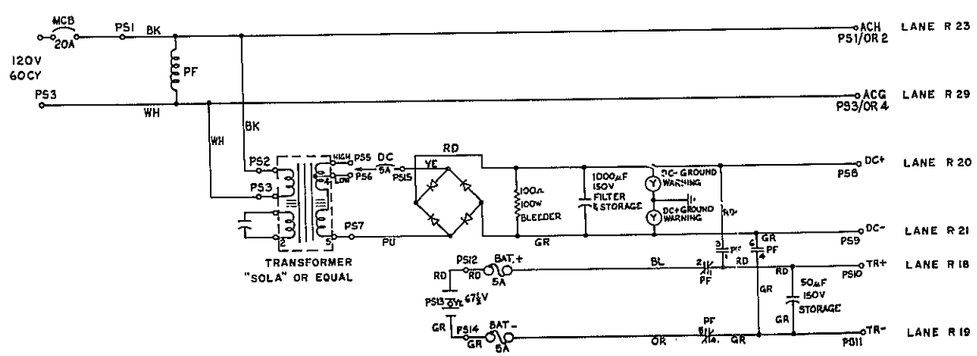
ALL WORK ITEM 25690.6342
FURNISH & INSTALL TOLL EQUIPMENT





RADIO INTERCOM COMMUNICATION SYSTEM
ALL WORK ITEM 25690.6512

NOTE: THE ITEM ORIGINALLY INCLUDED IN THE CONTRACT FOR A RADIO INTERCOM COMMUNICATION SYSTEM (25690.6512) INADVERTENTLY OMITTED THE RADIO & ANTENNA FROM THE SPECIFICATIONS. ORDER ON CONTRACT #1 (CONTRACT D96246) CORRECTED THIS OVERSIGHT BY DELETING ITEM 25690.6512 AND INCORPORATING NEW ITEM 25690.6590.



POWER SUPPLY CABINET SCHEMATIC

N.T.S.

ALL WORK ITEM 25690.6342 FURNISH & INSTALL TOLL EQUIPMENT

Prepared and recommended
Bernard H. Schwartz Date 7-30-79
GOODKIND & O'DEA, INC.
Consulting Engineers

REVISIONS

RADIO INTERCOM POWER SUPPLY & COLLECTOR DETAILING SCHEMATICS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DWG. NO.	SCALE	DATE		CONSULTING ENGINEERS
E-11	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc.	

Designed by B. SCHWART
Made by R. HREITZER
Traced by N. DA COSTA
Checked by N. SPANENTA

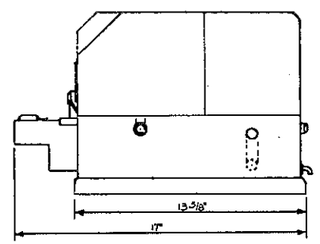
BRUNING 44-142 10349

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	I-88-2(10)	210	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY ;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

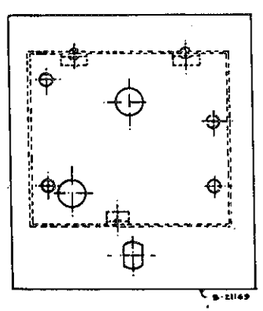
NOTE: ONE EXIT VALIDATOR TO BE FURNISHED AND INSTALLED UNDER ITEM 25690.6342 FOR EACH EXIT LANE ~ SEE CONTRACT SPECIFICATIONS.



SIDE VIEW

EXIT VALIDATOR *APPROX W'G'T 100 lbs.*

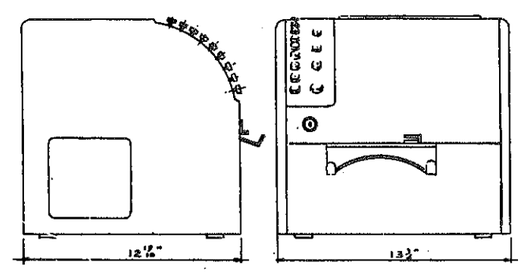
SCALE 1/4 SIZE



ELEVATION
SCALE 1/2 FULL

IDENTIFIER PULSER
COVER ASSEMBLY
APPROX W.G.T. 10 lbs.

NOTE: ONE IDENTIFIER TO BE FURNISHED AND INSTALLED UNDER ITEM 25690.6342 IN EACH ACTIVE COUNTER.
INSTALL BLANK PLATE IN INACTIVE COUNTERS ALSO UNDER ITEM 25690.6342
SEE TOLL BOOTH DRAWINGS & CONTRACT SPECIFICATIONS.



SIDE VIEW FRONT VIEW
SCALE 1/4 SIZE

TICKET ISSUING MACHINE
APPROX. W'G'T 85 lbs.

NOTE: ONE TICKET ISSUING MACHINE TO BE FURNISHED AND INSTALLED UNDER ITEM 25690.6342 FOR EACH ENTRANCE LANE. ~ SEE CONTRACT SPECIFICATIONS.

NOTE: ALL WORK ON THIS SHEET INCLUDED UNDER ITEM 25690.6342, FURNISH AND INSTALL TOLL EQUIPMENT, EXCEPT AS NOTED

Prepared and recommended
Bernard H. Le Quay Jr. Date 7-30-79
GOODKIND & O'DEA, INC.
Consulting Engineers

TOLL EQUIPMENT DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

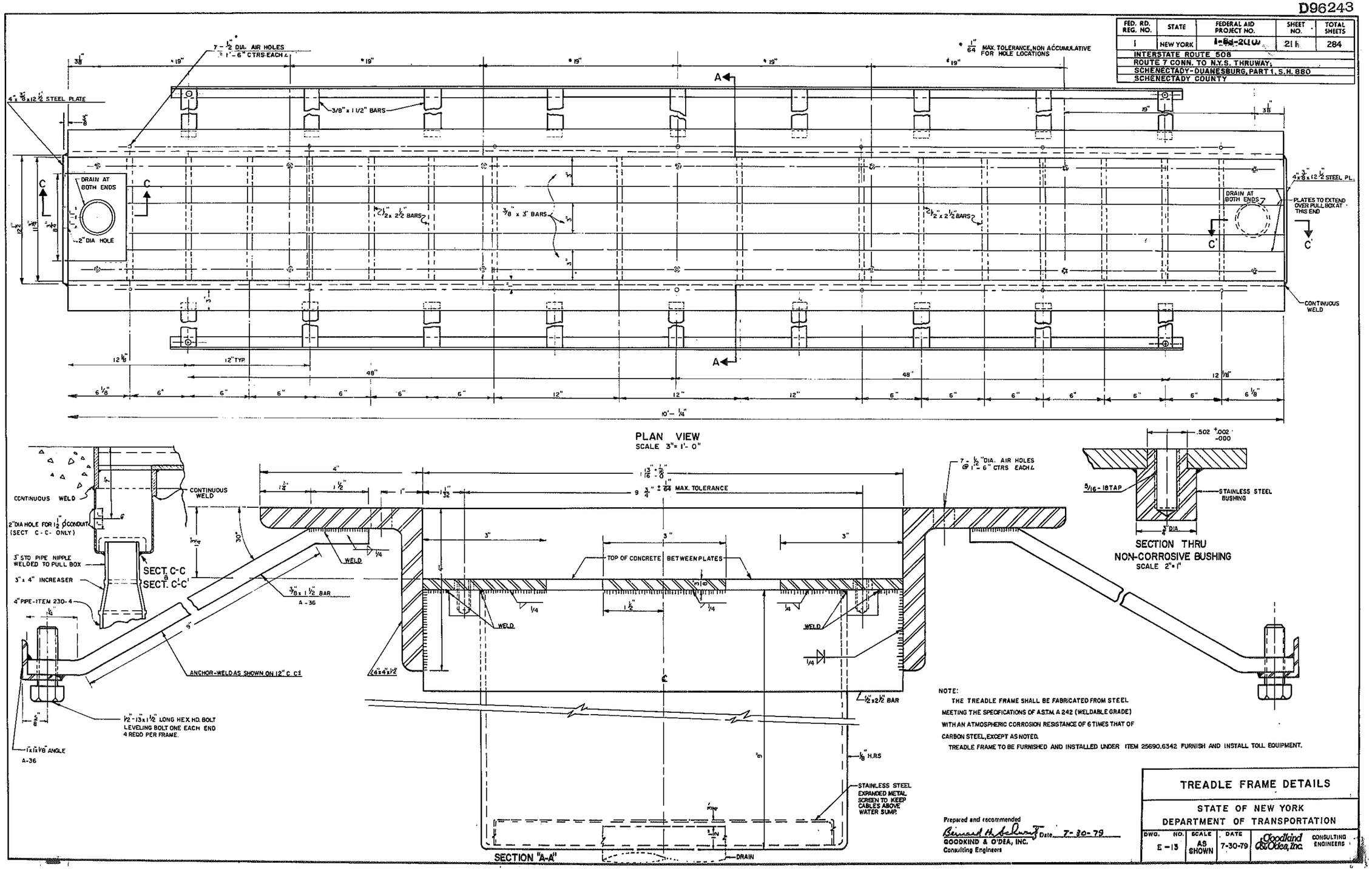
DWG. NO.	SCALE	DATE	
E-12	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

Designed by B. SCHWARTZ
Made by R. HREUTZER
Traced by N. DeCOSTA
Checked by N. SPANGNA

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	I-88-2(10)	211	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY,
SCHENECTADY-DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



NOTE:
THE TREADLE FRAME SHALL BE FABRICATED FROM STEEL MEETING THE SPECIFICATIONS OF A.S.T.M. A 242 (WELDABLE GRADE) WITH AN ATMOSPHERIC CORROSION RESISTANCE OF 6 TIMES THAT OF CARBON STEEL, EXCEPT AS NOTED.
TREADLE FRAME TO BE FURNISHED AND INSTALLED UNDER ITEM 25690.6342 FURNISH AND INSTALL TOLL EQUIPMENT.

Prepared and recommended
Bernard H. Schwartz Date 7-30-79
GOODKIND & O'DEA, INC.
Consulting Engineers

Designed by B. SCHWARTZ
Made by R. HAEUTZER
Traced by N. DA COSTA
Checked by N. SPAVENTA

TREADLE FRAME DETAILS

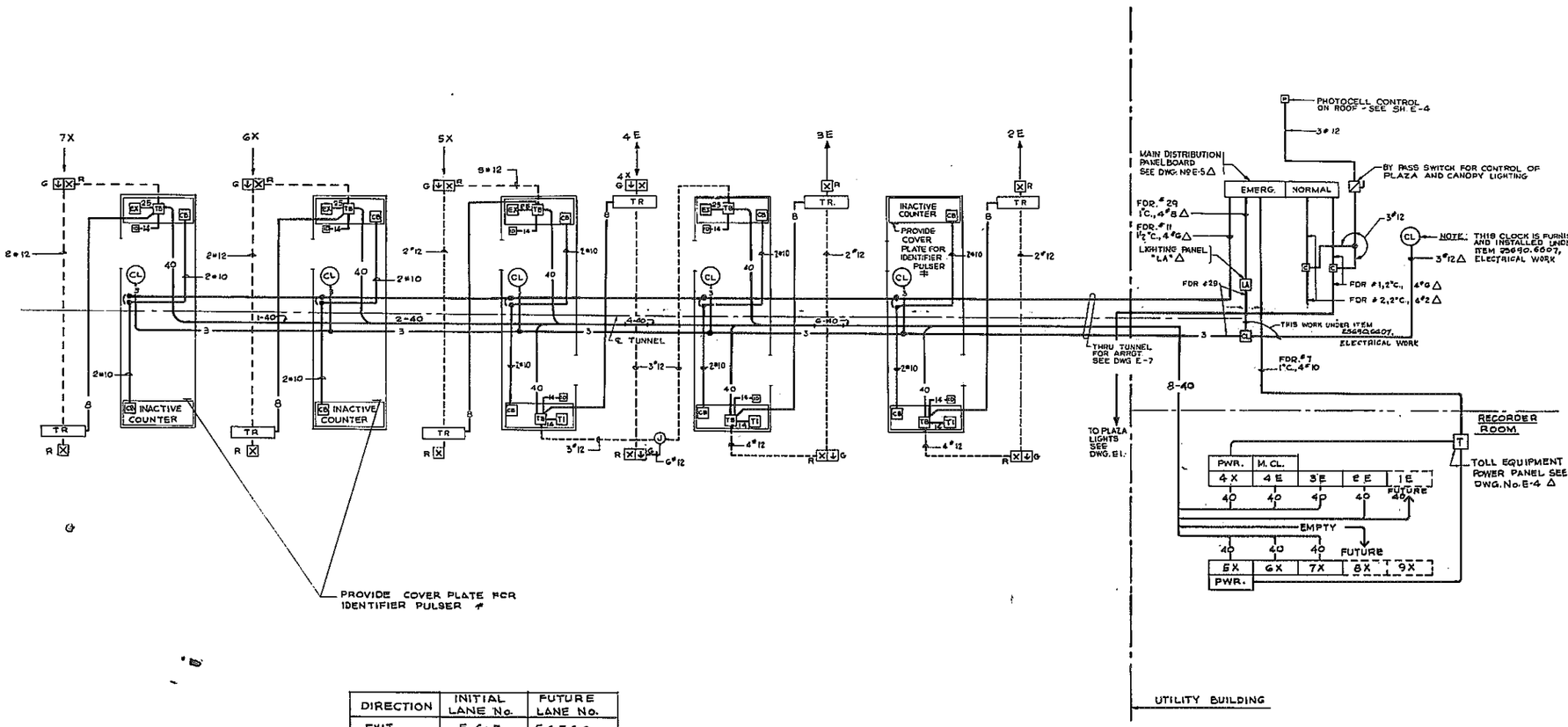
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DWG. NO.	SCALE	DATE	
E-13	AS SHOWN	7-30-79	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS

D96243

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	I-88-2(10)	212	284

INTERSTATE ROUTE 508
ROUTE 7 CONN. TO N.Y.S. THRUWAY;
SCHENECTADY–DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY



DIRECTION	INITIAL LANE No.	FUTURE LANE No.
EXIT	5, 6, 7	5, 6, 7, 8, 9
REVERSIBLE	4	4
ENTRANCE	2, 3	1, 2, 3

LEGEND - THIS SHEET ONLY

TB	—	TOLL BOOTH COUNTER ‡ TERMINAL BLOCK	SEE DWG. E-7
TI	—	TICKET ISSUING MACHINE ‡	" " E-12
EX	—	EXIT VALIDATING MACHINE ‡	" " E-12
CL	—	CLOCK CONTROL UNIT △	" " E-4
A	—	AXLE LIGHT △	" " E-1
ID	—	IDENTIFIER PULSER ‡	" " E-12
CB	—	TOLL BOOTH PANEL SEE SCHEDULE ON DWG. E9	▲ " " TB-8
BP	—	BY PASS SWITCH △	" " E-4
3E OR 4X	—	RECORDERS ‡	" " E-10
TR	—	TREADLE ‡	" " E-13
PWR/MCL	—	POWER SUPPLY & MASTER CLOCK UNIT ‡	" " E-10
R X G OR X R	—	LANE CONTROL SIGNALS △	" " E-6
E	—	3P. 30A. MAGNETIC CONTACTOR △	" " E-4
CL	—	CLOCK ▲ (EXCEPT AS NOTED)	" " TB-4
—40—	—	INDICATES NO. OF WIRES IN TOLL EQUIPMENT CABLES SUPPLIED & INSTALLED UNDER ITEM 25690.6542	
- - - -	—	CONDUITS AND/OR CABLES IN CANOPY △	
———	—	CONDUITS &/OR CABLES IN EARTH, TOLL BOOTH, OR TUNNEL △	
‡	—	FURNISHED AND INSTALLED UNDER ITEM 25690.6542	
▲	—	FURNISHED AND INSTALLED UNDER ITEM 25690.6375	
△	—	FURNISHED AND INSTALLED UNDER ITEM 25690.6607	

NOTE: SEE LIGHT & POWER RISER DIAGRAM ON DRAWING No. E-5.

Prepared and recommended
Bernard H. de Quesada Jr.
GOODKIND & O'DEA, INC.
Consulting Engineers
Date 7-30-79

TOLL EQUIPMENT RISER DIAGRAM

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DWG. NO.	SCALE	DATE	Goodkind & O'Dea, Inc. CONSULTING ENGINEERS
E-14	NONE	7-30-79	

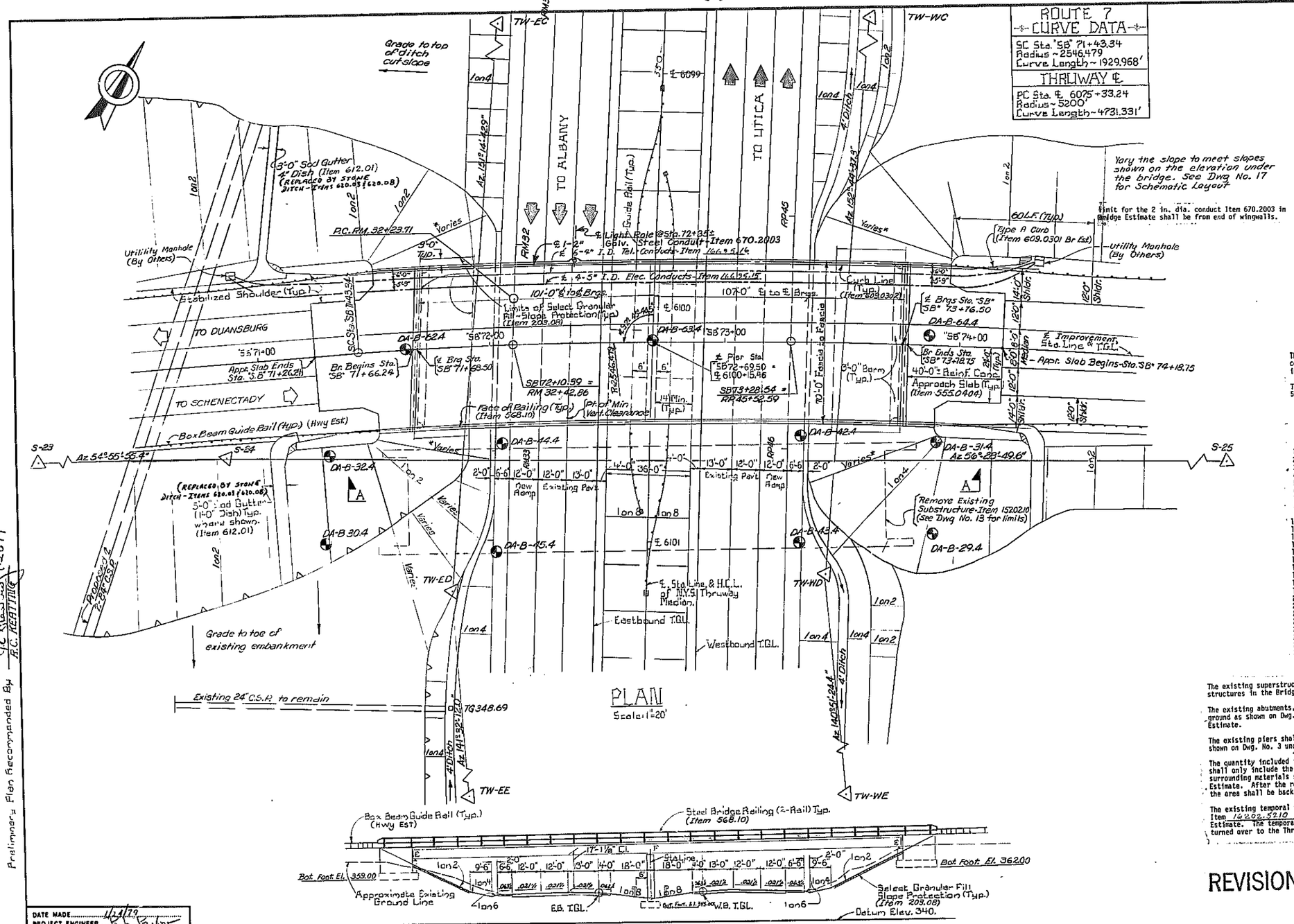
In Charge of R. HREUTZER
Designed by B. SCHWARTZ
Design Checked by H. SPAVENTA
Detailed by H. DA COSTA
Detail Checked by H. LANE

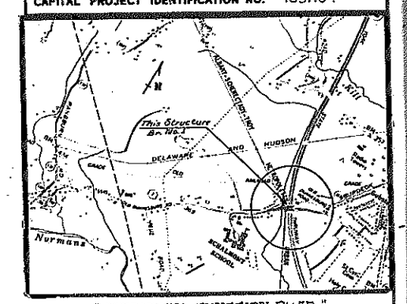
D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	213 R1	284

INTERSTATE ROUTE 508 (I-88)
I-90 N.Y.S. THRUWAY INTERCHANGE
SCHENECTADY CO.

CAPITAL PROJECT IDENTIFICATION NO. 1357.04





"ROTTERDAM JUNCTION QUAD."

LOCATION PLAN

Scale: 1" = 2000'

The limits for the utilities in the Bridge Estimate shall be from center to center of manholes. The manholes shall be furnished and installed by the utility companies. The location shall be A.O.B.E.

The existing bridge railing shall be removed and stored under Item 587.02 Bridge Railing Removal and Storage in the Bridge Estimate

INDEX:

1. Plan and Elevation
2. Profiles and Sections
3. Estimate of Quantities & General Notes
4. Subsurface Profile
5. Embankments
6. West Abutment
7. West Abutment
8. West Abutment
9. Pier
10. Pier
11. East Abutment
12. East Abutment
13. East Abutment & Substructure Removal
14. Superstructure - Transverse Sect. & Framing Plan
15. Superstructure - Slab Reinforcement
16. Superstructure - Welded Plate Girder Details
17. Superstructure - Miscellaneous Details
18. Tables and Camber Diagram
19. Miscellaneous Details
20. Approach Slab
21. Armored Joint Details
22. Bearings Details
23. Shoulder Details
24. Steel Bridge Railing - Two Rail
25. Bar List
26. Bar List
27. Bar List

The existing superstructure shall be removed under Item 202.12 - Removing Existing Superstructures in the Bridge Estimate.

The existing abutments, including piles, shall be removed to one (1) foot below finish ground as shown on Dwg. No. 13 under Item 15202.10 Removal of Substructures in the Bridge Estimate.

The existing piers shall be completely removed down to the top of the existing footing as shown on Dwg. No. 3 under Item 15202.10 Removal of Substructures in the Bridge Estimate.

The quantity included in Item 15202.10 - Removal of Substructures in the Bridge Estimate shall only include the actual amount of concrete and piles removed. The removal of the surrounding materials shall be included in the Unclassified Excavation in the Highway Estimate. After the removal of the Pier Columns down to the top of the existing footings, the area shall be backfilled with highway embankment included in the highway estimate.

The existing temporal supports under the west span shall be removed and stored under Item 142202.5210 Dismantling and Storing Existing Temporary Supports in the Bridge Estimate. The temporary support materials shall become the property of the State to be turned over to the Thruway Authority at a later date.

BIN 1084170

● Denotes Borings

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

ROUTE 7 BRIDGE OVER NEW YORK STATE THRUWAY

DRAWING NO. 1 OF 27

DATE MADE 12/4/79
PROJECT ENGINEER
IN CHARGE OF
DESIGNED BY
DESIGN CHECKED BY
DETAILED BY
DETAIL CHECKED BY

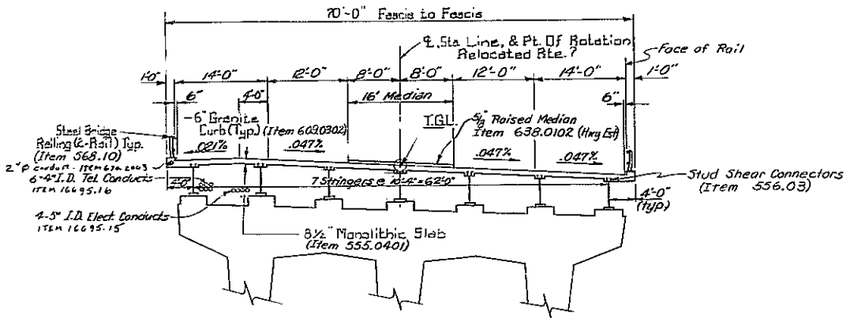
Preliminary Plan Recommended By — A.C. REATTINO — 12-6-79

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	219	281

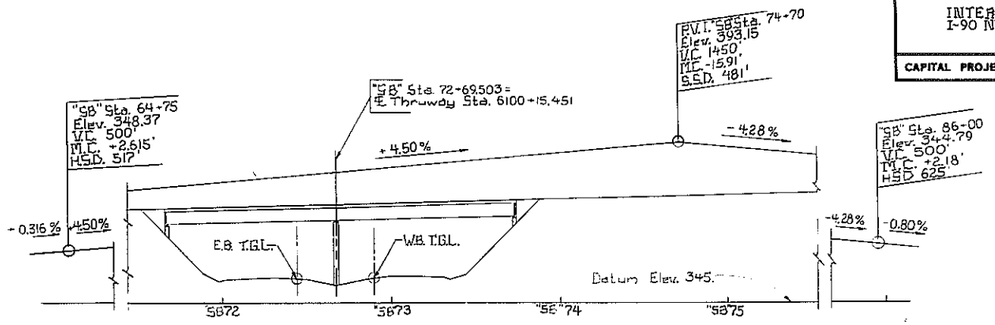
INTERSTATE ROUTE 508 (I-88)
I-90 N.Y.S. THRUWAY INTERCHANGE
SCHENECTADY CO.

CAPITAL PROJECT IDENTIFICATION NO. 1357.04



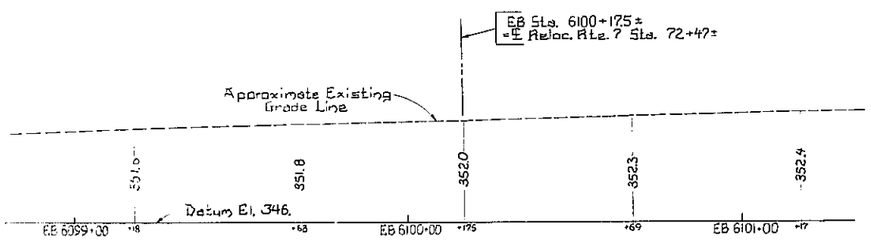
TYPICAL BRIDGE SECTION

Scale: 1"=10'-0"



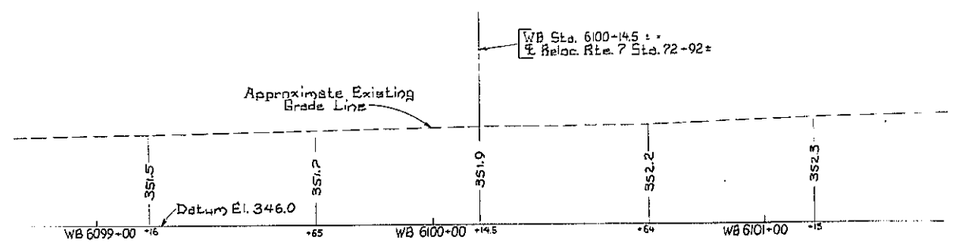
℄ PROFILE-RELOCATED ROUTE 7

Scale: 1" = 40'-0" Hor.
1" = 20'-0" Vert.



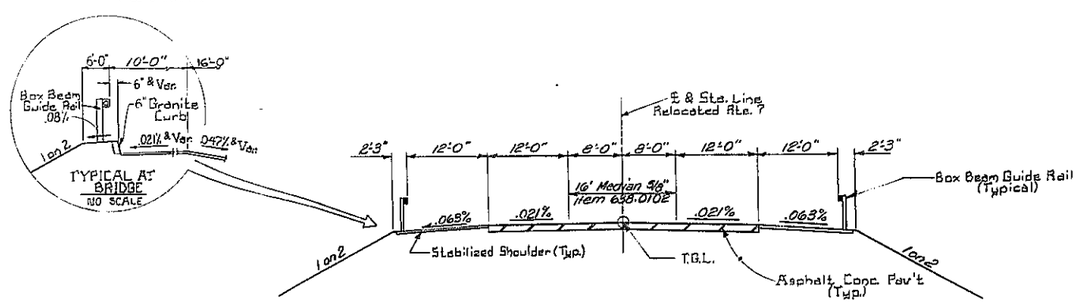
EXISTING EASTBOUND THRUWAY PROFILE

Scale: 1" = 4'-0" Vert.
1" = 20'-0" Horiz.



EXISTING WESTBOUND THRUWAY PROFILE

Scale: 1" = 4'-0" Vert.
1" = 20'-0" Horiz.



TYPICAL HIGHWAY SECTION RTE. 7

Scale: 1" = 10'-0"

DATE MADE
PROJECT ENGINEER
IN CHARGE OF T.D. Quinn
DESIGNED BY
DESIGN CHECKED BY
DETAILED BY
DETAIL CHECKED BY

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

ROUTE 7 BRIDGE OVER NEW YORK STATE THRUWAY

DRAWING NO. 2 OF 27

5

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	215 R1	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED SUBSTR	ESTIMATED SUPER	ESTIMATED MISC	ESTIMATED TOTAL	FINAL	Telephone	Electric
202.12	Removing Existing Superstructures	LS			Nec.	Nec.	188		
203.08	Select Granular Fill, Slope Protection	CY	137			137	188		
203.21	Select Structure Fill	CY	2800			2800	2249		
206.01	Structure Excavation	CY	1740			1740	1015		
552.04	Temporary Steel Sheet Piling	SF			541	541	1188		
552.05	Safe Operation Sheet Piling	SF	4783			4783	0		
555.01	Concrete for Structures, Class A	CY		17		17	17		
555.02	" " " , Class B	CY	514			514	512		
555.0401	" " " , Class E (Integral	—		—		—	—		
—	Wearing Surface Bottom Formwork Required)	SF		14665		14665	14,665		
555.0404	Concrete for Structures, Class E (Structural	—			—	—	—		
	Approach Slab-Integral Wearing Surface)	SF			4454	4454	4454		
556.0201	Uncoated Bar Reinforcement for Concrete Structures	Lb.	39,851	51,736	33 074	124,661	127,674		
556.0202	Epoxy Coated Bar Reinforcement for Structures	Lb.	459	57,246		57,705	58,002		
556.03	Stud Shear Connectors for Bridges	Ea.		3,360		3,360	3,360		
558.01	Bituminous Material	SF	2,500			2500	2,208		
559.01	Epoxy Protective Coating	SF	1,346			1346	1,360		
564.01	Structural Steel	Lb.		363455		367,540	376,888	2510	1675
565.0301	Bridge Bearing (Low Steel Expansion)	Ea.	14			14	14		
565.0404	" " " " Fixed)	Ea.	7			7	7		
567.35	Armored Joint System with Compression Seal (Type A5)	LF		141		141	142		
568.10	Steel Bridge Railing (Two Rail)	LF		503		503	503		
587.02	Bridge Railing Removal & Storage	LF			400	400	436		
605.0702	Steel Pipe Underdrain (4⅝" Semi Circular or 6"	—	—			—	—		
—	Perforated Corrugated)	LF	238			238	346		
605.0901	Underdrain Filter Type I	CY	119			119	102		
609.0301	Stone Curb - Bridge (Type A)	LF		150		150	160		
609.0302	" " " (Type F1)	LF		68		68	419		
609.0303	" " " (Type G1)	LF			426	426	68		
619.01	Basic Maintenance & Protection of Traffic	LS			Nec.	Nec.	12		
634.03	Concrete Cylinder Curing Box	Ea.			0.33	0.33	0.33		
637.09	Engineer's Office (Type E)	Mo.			4	4	4		
699.01	Mobilization	LS			Nec.	Nec.	6		
16695.15	Installing Electrical Ducts	LS				Nec.	0		Nec
16695.16	" Telephone "	LS				Nec.	0	Nec	
15202.10	Removal of Substructures	CY			410	410	260		
15570.25	Clean Controlled Oxidizing Structural Steel	LS		Nec.		Nec.	50		
612.01	Sodding	SY			174	174	49		
615.03	Watering Plants and Sod	MGAL			0.20	0.20	2.09		
16202.5210	Dismantling and Storing Existing Temporary Supports	LS			Nec.	Nec.	100		
619.02	Construction Signs	LS			Nec.	Nec.	12		
634.01	Survey and Stakeout	LS			Nec.	Nec.	12		
18635.01	Cleaning and Preparation of Pavement Surface-Lines	LF		25		25	0		
687.01	White Thermoplastic Reflect Pavement Stripes	LF			450	450	0		
687.02	Yellow Thermoplastic Reflect Pavement Stripes	LF			450	450	0		
670.1001	Alum Light Stds Suft. Mtg Ht 4' To 15' Bracket	Ea			1	1	1		
670.2003	2 in Galv Steel Conduit	LF			250	250	253		
670.40	Cast Iron Junction Boxes	Ea			1	1	1		
16695.19	INSTALL ELECTRICAL CONDUIT (CO. FURNISHED)	LF				1275	912		1275
16695.20	INSTALL TELEPHONE CONDUIT (CO. FURNISHED)	LF				1900	1368		1900
950.04	FURNISH & INSTALL POST CAST HEADER ANCHORAGE (F.S. #4)	LS		100			100		
950.06	ADDITIONAL COSTS FOR CHANGES IN BRIDGE STEEL	LS		100			100		

ALL STEEL SHALL BE A588 WEATHERING STEEL (UNPAINTED)

GENERAL NOTES:

Design Specifications: New York State Department of Transportation, Standard Specifications for Highway Bridges dated April 1, 1976.

Live Load: HS20-44 or two 24,000 lb. axles spaced 4'-0" on centers.

Material and Construction Specifications: Standard Specifications, Construction and Materials, New York State Department of Transportaion Design and Construction Division, dated January 3, 1978, with current additions and modifications.

The cost of furnishing and placing water used for Select Structure Fill, Item 203.21, will be paid for under Items 203.1601 (included in Highway Estimate.)

The cost of furnishing and placing water used for Sod Gutters will be paid for under Item 615.03 (included in Bridge Estimate).

The cost of all joint material will be included in the price bid for the various items of the Contract, except as otherwise specified.

All concrete anchor studs which are attached to the various steel details shall meet the requirements listed in Subsection 709-05, Stud Shear Connectors. Payment for furnishing and placing the concrete anchors will be included in the unit price bid for the item to which the anchors are attached.

All exposed concrete shall be covered with polyethylene sheeting or other material approved by the Engineer. The covering shall remain until the completion of the Contract or A.O.B.E. The cost of the covering shall be included in the Structural Concrete Item.

SUPERSTRUCTURE NOTES

The structural slab for this structure shall be formed using permanent corrugated metal forms for concrete decks.

All structural steel, including bracing, stiffeners and bearings shall be A588 Weathering Steel (unpainted).

The top bars in the deck slab shall be epoxy coated and shall be paid for under Item 556.0202.

All anchor bolts, nuts and washers shall be galvanized in accordance with the requirements of 1973 Material Specification 719-01.

When bolted connections are shown, bolts shall be 7/8 - inches diameter high-strength bolts, unless otherwise specified.

After all superstructure beams have been erected, elevations shall be taken on the top of the beam at the center-line of web at each centerline of bearing, center of the span and at other locations.

SUBSTRUCTURE NOTES

Unsuitable material, including topsoil, shall be removed beneath substructures placed on fills less than 20 feet in height measured from the original ground surface to the theoretical grade line and replaced with the item shown on the Plans.

All embankments of Select Structural Fill, Item 203.21 shall be compacted to 100 percent of standard proctor maximum density as defined under Subsection 203-3.12 - Compaction.

Embankment in Place, Item 203.03, and Select Structure Fill, Item 203.21, shall be placed simultaneously, in contact, on both sides of the vertical payment line. Sheeting or other means shall not be used to separate the two materials.

The installation of Select Structure Fill, Item 203.21, as shown on the Structural Plans, shall be completed immediately following the completion of abutments or walls.

Bituminous Material, Item 558.01, shall be applied to the backs of all abutments and wingwalls above top of footings where fill is in contact with the walls.

Epoxy Protective Coating for Concrete, Item 559.01 shall be applied to the following surfaces:

ABUTMENTS: All exposed pedestal surfaces, bridge seats, including the area under the bearings, exposed vertical surfaces of backwall, and curtainwalls facing the superstructure.

SOLID PIERS: All pedestal, surfaces, including the area under the bearings, and top surface of pier between pedestals, including the edge chamfer at top edge of pier.

The Contractor, with the permission of the Deputy Chief Engineer (Structures) may elect to introduce construction joints in the abutments at locations not shown on the Plans. These construction joints shall be provided with shear keys and waterstops. Vertical construction joints introduced in the backwall should preferably be placed midway between the pedestals.

EXISTING STRUCTURE NOTES

The existing superstructure shall be removed under Item 202.12 - Removing Existing Superstructures in Bridge Estimate.

The existing Bridge Railing shall be removed and storage under Item 587.02 Bridge Railing Removal and Storage.

The Existing Abutments, including the existing piles, shall be removed down to 1 (one) foot below finished ground. The Piers shall be completely removed down to the top of the existing footings. The Abutments and Piers shall be removed under Item 15202.10 - Removal of Substructures in the Bridge Estimate. The quantity removed under Item 15202.10 in the Bridge Estimate shall only include the concrete removed. The surrounding material removed and the material required for Back Fill shall be included in the Highway Estimate. See Dwg. No. 13 for Removal Limits.

The temporary supports under the west span of the existing bridge shall be removed and stored on the site to be turned over to the Thruway Authority at a later date under Item - Dismantling and Storing Existing Temporary Supports.

FOUNDATION NOTES

The Abutments and Piers shall be supported on spread foundations placed on undisturbed natural soil or compacted Select Structure Fill, Item No. 203.21 and shall be designed for a maximum allowable bearing pressure of 2.5 Tons per square foot.

Excavation below planned footing elevation will not be allowed without written permission from the Engineer. Back Fill of unauthorized excavations below or beyond payment lines will be at the Contractor's expense. Back Fill material will be Class B Concrete unless otherwise directed by the Engineer.

The approach embankments for both the East and West Abutments shall be constructed to Elevation 370.00 at the East Abutment and Elevation 364.00 at the West Abutment. The construction of these approach embankments shall include the Abutment areas. A waiting period of one (1) month shall be observed with the approach embankments at these elevations prior to the excavation and construction of the Abutments.

After constructing both Abutments and backfilling to roadway subgrade, a two-week waiting period shall be observed before pouring the pedestals to their final elevations.

The Engineer shall set a grade stake at the end of each wingwall and at the station line to monitor the settlement at each approach embankment during the one (1) month waiting period that has to be observed at each abutment. Readings on these grade stakes shall be taken at least twice a week and the results transmitted to the Soil Mechanics Bureau. After receiving this information, the Soil Mechanics Bureau shall advise the Deputy Chief Engineer (Structures) on whether any extra precautionary measures have to be taken due to excessive embankment settlement.
Any cost incurred from these precautionary measures shall be covered in the extra work provisions of the Standard Specifications.

UTILITY NOTES

Under ITEM ~~16695.15~~ 16695.19 - Installing Electrical Ducts - the Contractor shall install 4 (four) 5 inch (I.D.) Figerblass Conduits. Niagara Mohawk Power Corporation shall supply all required materials, including the conduits, the tie down U bolts, the required conduit seats to be placed on the bridge diagrams, the iron pipes to be placed in the abutment backwall, all adapters, couplings and expansion joints required to install the ducts.

Under ITEM ~~16695.16~~ 16695.20 - Installing Telephone Ducts - the Contractor shall install 6 (six) 4 inch I.D. Fiberglass Conduits. New York Telephone Co. shall supply all required materials, including the conducts, the iron pipes to be placed in the abutment backwall the pre-engineered duct support system, all adapters, couplings and expansion joints required to install the ducts.

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY

ESTIMATE

PROJ. ENG. [signature] | DATE MADE
SQUAD [signature] | DRAWING NO. 3 OF 27

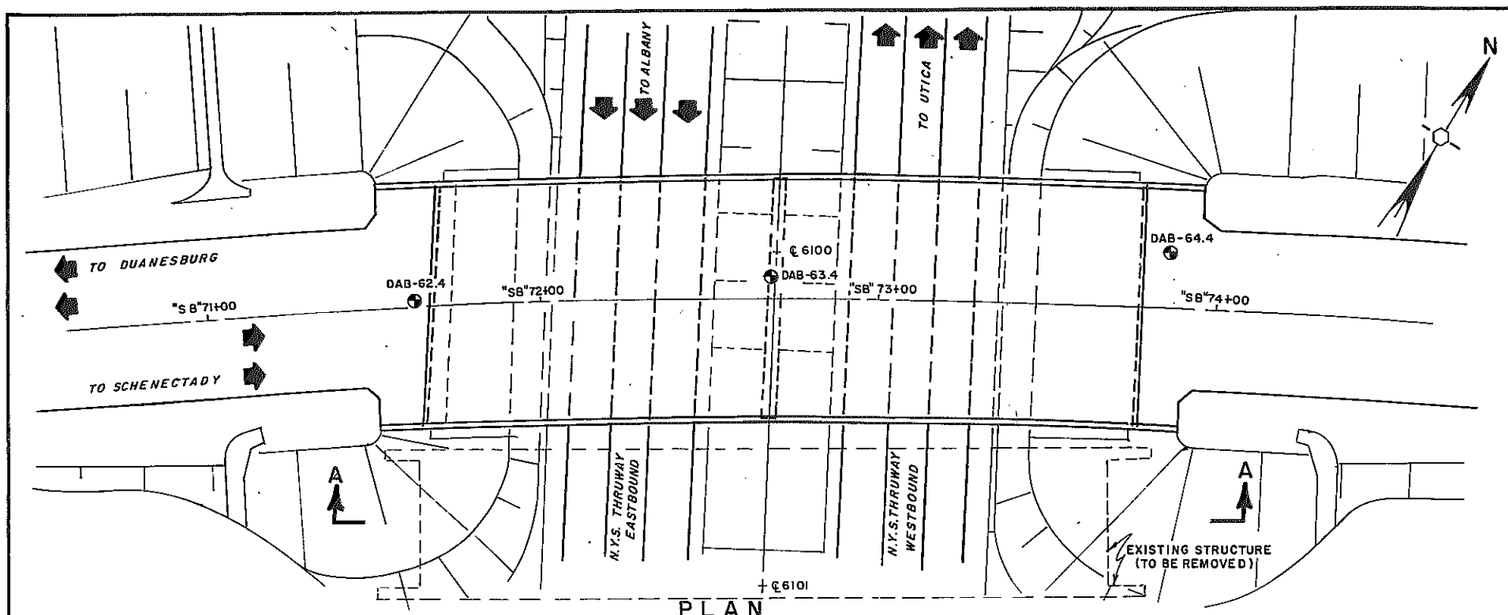
DESIGNED BY ___ DESIGN CHECKED BY ___ DETAILED BY Ronald E Crowd DETAIL CHECKED BY ___

D96243

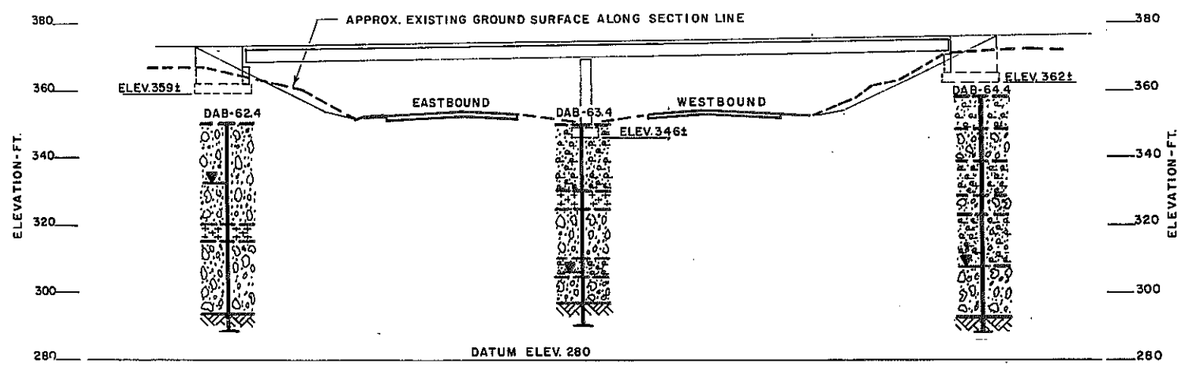
FED. RD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	216	289

INTERSTATE ROUTE 508 (I-88)
I-90 N.Y.S. THRUWAY INTERCHANGE

CAPITAL PROJECT IDENTIFICATION NUMBER: 1357.04



PLAN
SCALE: 1"=20'



SECTION A-A
BORINGS PROJECTED PERPENDICULAR TO SECTION LINE
SCALE: 1"=20'

REFERENCE PLANS

Preliminary Structure Plans Used for Analysis were

Prepared By: The Structures Design and Construction Subdivision

Scale: 1" = 20' Date: 9/14/76

Prepared By: C.R. Kleinke
Drawn By: J. Muir
Dwg. Reviewed By: D. Quinn
Checked By: R.R. Walton

GENERAL NOTES

The subsurface explorations shown hereon were made between 11/14/77 to 11/4/78 by the Regional Soils Section.
1) General soil and rock (where encountered) strata descriptions and indicated boundaries are based on an engineering interpretation of all available subsurface information by the Soil Mechanics Bureau and may not necessarily reflect the actual variation in subsurface conditions between borings and samples. Detailed data and field interpretations of conditions encountered in individual borings are shown on the subsurface exploration logs.
2) The observed water levels and/or conditions indicated on the subsurface profiles are as recorded at the time of exploration. These water levels and/or conditions may vary considerably, with time, according to the prevailing climate, rainfall or other factors and are otherwise dependent on the duration of and methods used in the explorations program.
3) Sound engineering judgment was exercised in preparing the subsurface information presented hereon. This information was prepared and is intended for State design and estimate purposes only. Its presentation on the plans or elsewhere is for the purpose of providing intended users with access to the same information available to the State. This subsurface information interpretation is presented in good faith and is not intended as a substitute for personal investigation, independent interpretations or judgment of the Contractor.
4) All structure details shown hereon are for illustrative purposes only and may not be indicative of the final design conditions shown in the contract plans.
5) Footing elevations shown are as indicated at the time of this drawing's preparation.

LEGEND

The following tables summarize the descriptive information used on this profile.

Density (Non Plastic Soils)	No. of blows per foot of penetration of 2 inch O.D. (1-1/2 inch I.D.) sampler using a 300 lb. drop hammer, 18 inch fall
Very Loose	0-3
Loose	4-8
Medium Compact	9-20
Compact	21-35
Very Compact	over 35
Consistency (Plastic Soils)	
Very Soft	0-2
Soft	3-6
Firm	7-12
Stiff	13-20
Hard	over 20

The system for describing soil materials shown on this drawing is detailed in "Soil Description Procedure" Official Issuance No. 7.41-5 STP 2/76 prepared by the New York State Department of Transportation Soil Mechanics Bureau.

SYMBOLS

DRILL HOLE DAB-

OBSERVED WATER LEVEL

Loose to Compact
Brown and Gray Gravelly Silt, Clayey with Cobbles

Medium Compact to Compact
Brown and Gray Sandy Gravel with Cobbles

Medium Compact to Compact
Brown and Gray Gravelly Silt, Sandy with Cobbles

LEDGE ROCK

R1 - REVISION 1: REVISED ELEVATION OF DRILL HOLE DAB-64.4

APPROVED MARCH 7 1979
L. H. Moore
DIRECTOR
SOIL MECHANICS BUREAU

REGION NO. 1
COUNTY SCHENECTADY
DWG. NO. 1 SM 2146 R1

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DESIGN AND CONSTRUCTION DIVISION

GENERAL SUBSURFACE PROFILE FOR ROUTE 7 BRIDGE OVER NEW YORK STATE THRUWAY

DRAWING NO 4 OF 27

1357.04

K&E TEM 2284

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	217	284
ROUTE 7 CONN. TO N.Y.S. THRUWAY SCHENECTADY - RUNNESBURG, PART 1, S.H. 880 SCHENECTADY COUNTY				
CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75				

FOUNDATION NOTES.

The walls shall be supported on spread foundations placed on undisturbed natural soil and shall be designed for a maximum allowable bearing pressure of 2.5 Tons per square foot.

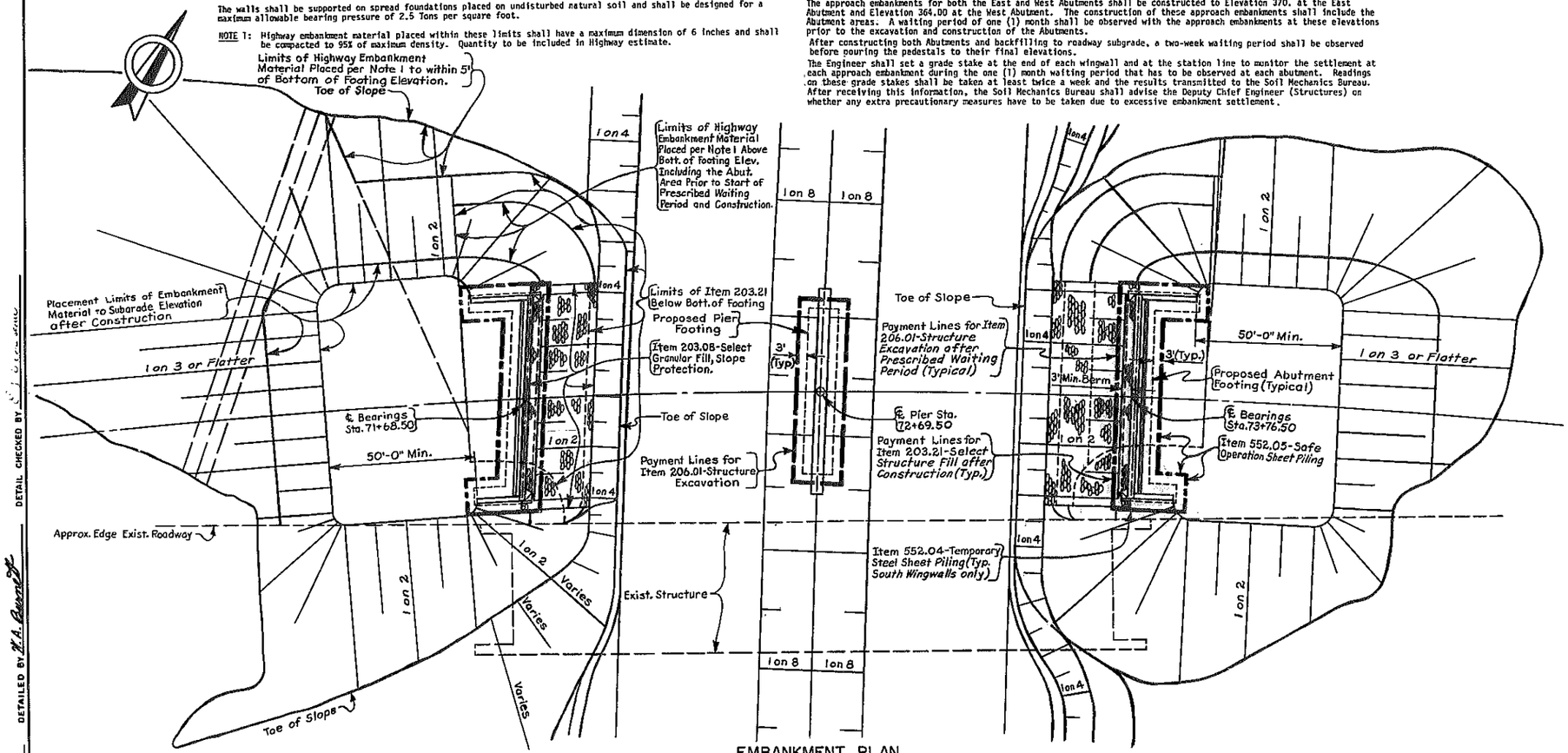
NOTE 1: Highway embankment material placed within these limits shall have a maximum dimension of 6 inches and shall be compacted to 95% of maximum density. Quantity to be included in Highway estimate.

NOTE 2: Highway embankment material and Item 203.21 shall be placed simultaneously, in contact on both sides of the vertical payment lines.

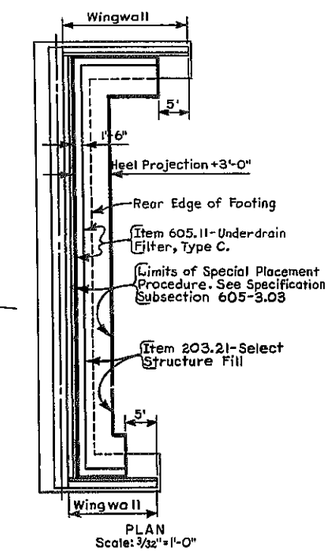
The approach embankments for both the East and West Abutments shall be constructed to Elevation 370. at the East Abutment and Elevation 364.00 at the West Abutment. The construction of these approach embankments shall include the Abutment areas. A waiting period of one (1) month shall be observed with the approach embankments at these elevations prior to the excavation and construction of the Abutments.

After constructing both Abutments and backfilling to roadway subgrade, a two-week waiting period shall be observed before pouring the pedestals to their final elevations.

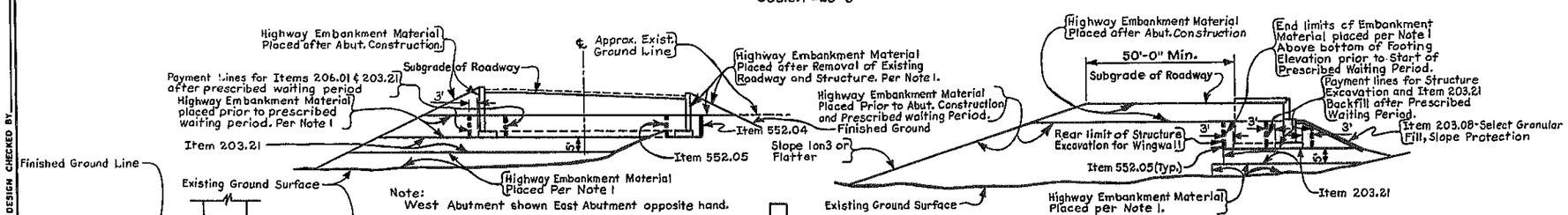
The Engineer shall set a grade stake at the end of each wingwall and at the station line to monitor the settlement at each approach embankment during the one (1) month waiting period that has to be observed at each abutment. Readings on these grade stakes shall be taken at least twice a week and the results transmitted to the Soil Mechanics Bureau. After receiving this information, the Soil Mechanics Bureau shall advise the Deputy Chief Engineer (Structures) on whether any extra precautionary measures have to be taken due to excessive embankment settlement.



EMBANKMENT PLAN
Scale: 1"=20'-0"



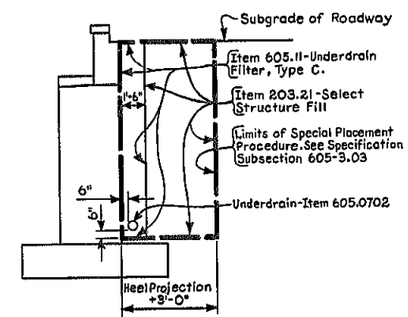
PLAN
Scale: 3/32"=1'-0"



Note:
West Abutment shown East Abutment opposite hand.

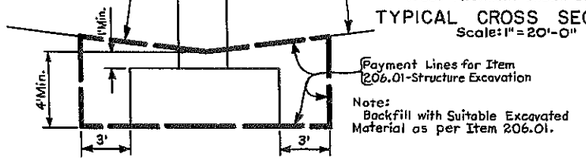
TYPICAL CROSS SECTION
Scale: 1"=20'-0"

TYPICAL CENTERLINE SECTION
Scale: 1"=20'-0"



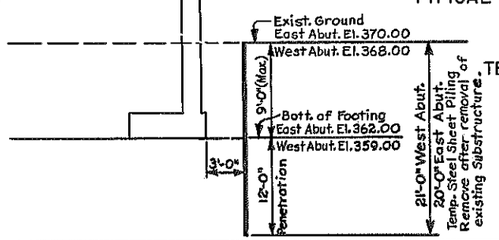
CROSS SECTION
Scale: 1/4"=1'-0"

STRUCTURE BACKFILL PLACEMENT LIMITS FOR POROUS DRAINAGE AGGREGATE



Note:
Backfill with Suitable Excavated Material as per Item 206.01.

EXCAVATION AND BACKFILL AT PIER
Scale: 1/4"=1'-0"



TEMPORARY STEEL SHEET PILING
(ITEM 552.04)
Not to Scale
Min. Sect. Mod. = 12.9 in³/Lin. Ft.
Min. Thickness = 3/8"

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER NEW YORK STATE THRUWAY

EMBANKMENT, EXCAVATION AND BACKFILL

PROJ. ENG. Z. Jacobs — DATE MADE
SQUAD C. J. Brosseau — DRAWING NO. 5 OF 27

DESIGNED BY C. J. Brosseau — DESIGN CHECKED BY — DETAILED BY Z. A. Bennett — DETAIL CHECKED BY

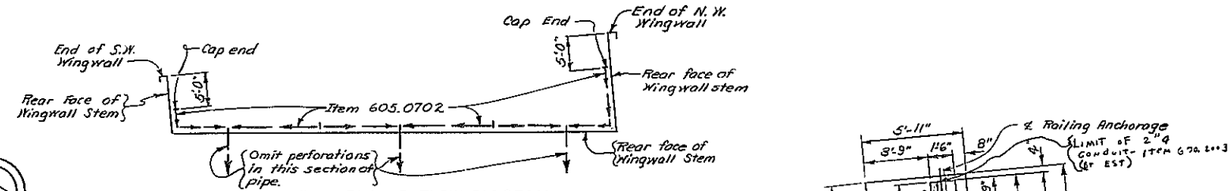
D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	216	284

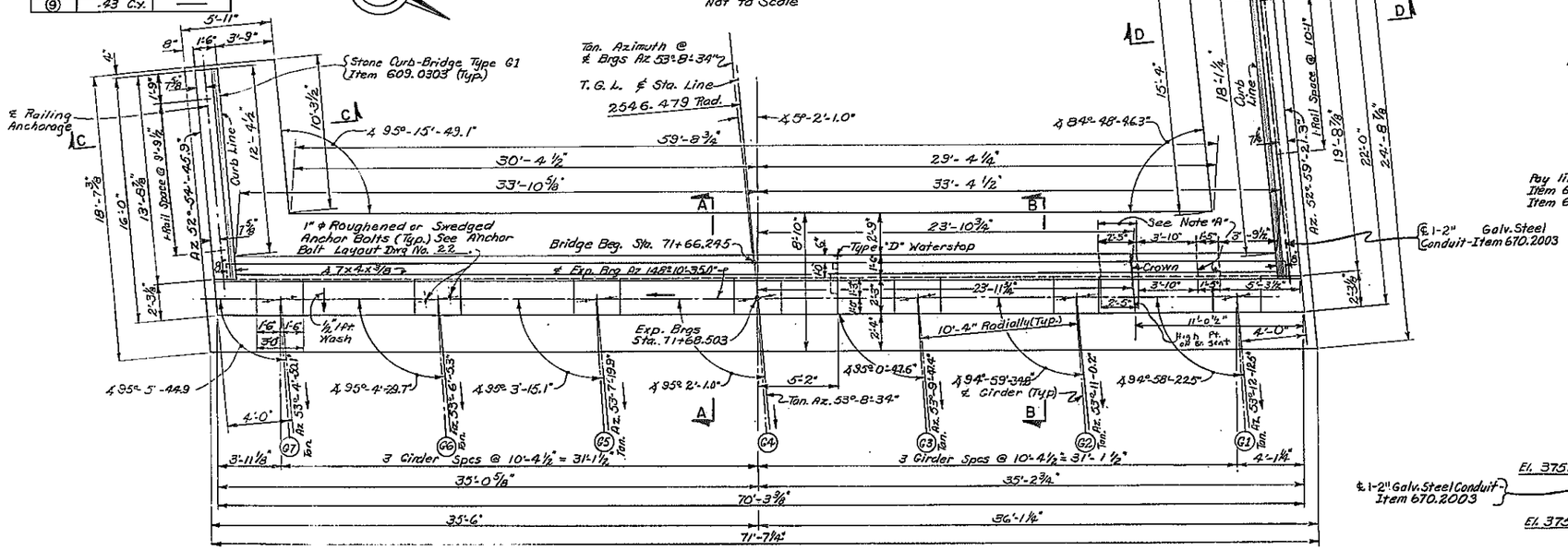
I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04

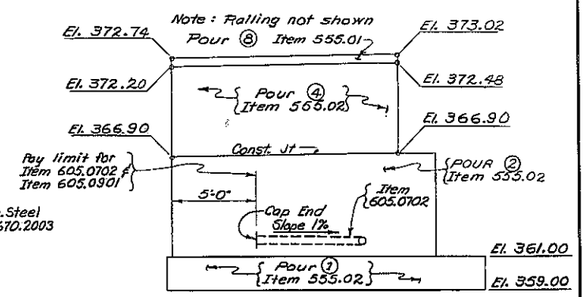
POUR TABLE		
POUR	ITEM 555.01	ITEM 555.02
①	—	58.06 C.Y.
②	—	43.33 C.Y.
③	—	43.07 C.Y.
④	—	14.79 C.Y.
⑤	—	14.28 C.Y.
⑥	1.15 C.Y.	—
⑦	1.0 C.Y.	—
⑧	.3 C.Y.	—
⑨	.43 C.Y.	—



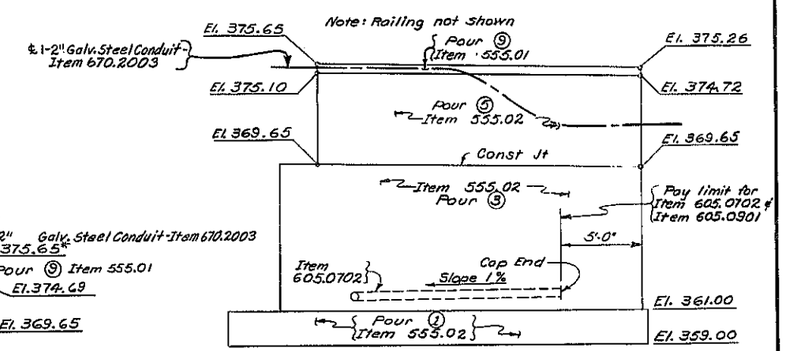
UNDERDRAIN PLAN & FLOW DIAGRAM
Not to Scale



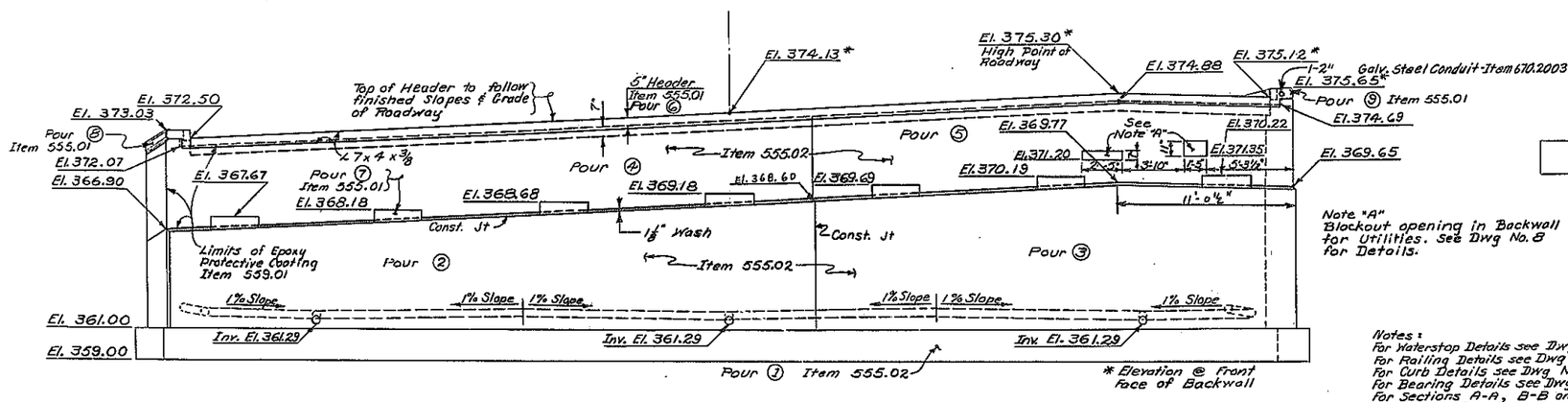
PLAN-WEST ABUTMENT
Scale: ¼" = 1'-0"



S.W. WINGWALL
Scale: ½" = 1'-0"



N.W. WINGWALL
Scale: ¼" = 1'-0"



ELEVATION-WEST ABUTMENT
Scale: ¼" = 1'-0"

Note "A" Blockout opening in Backwall for Utilities. See Dwg No. 8 for Details.

Notes:
For Waterstop Details see Dwg No. 19
For Railing Details see Dwg No. 24
For Curb Details see Dwg No. 19
For Bearing Details see Dwg No. 22
For Sections A-A, B-B and C-C see Dwg No. 7
For Pedestal Details see Dwg No. 8
For Joint Details see Dwg No. 21
For Anchor Bolt Detail see Dwg No. 22
For Design Purposes Foundation Pressure does not exceed 2½ T.S.F.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
WEST ABUTMENT

PROJ. ENG. [illegible] | DATE MADE
SQUAD [illegible] | DRAWING NO. 6 OF 27

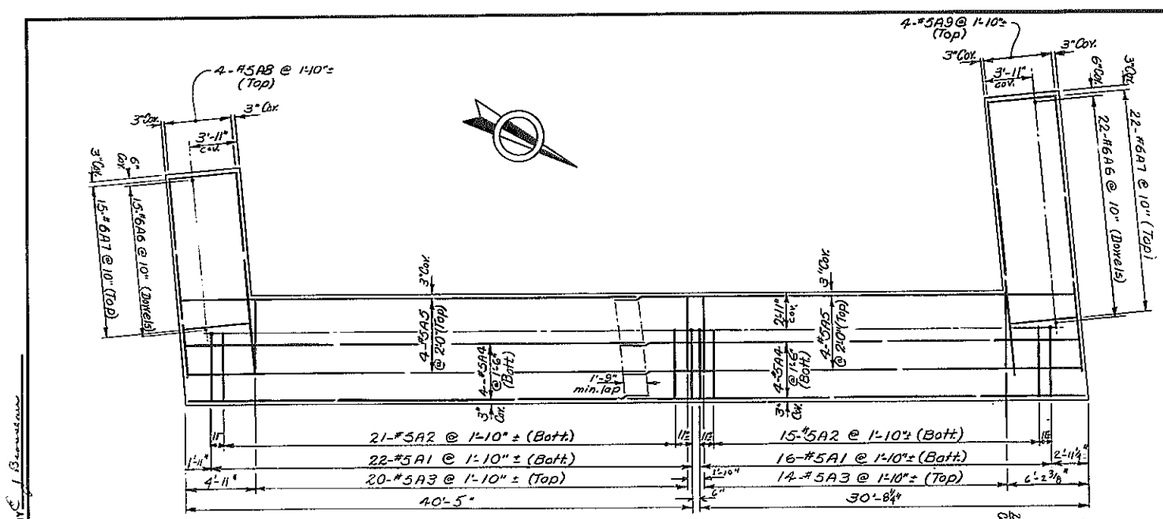
DESIGNED BY R. D. Kasper | DESIGN CHECKED BY E. J. Strausser | DETAILED BY J. Durant | DETAIL CHECKED BY E. J. Strausser

D96243

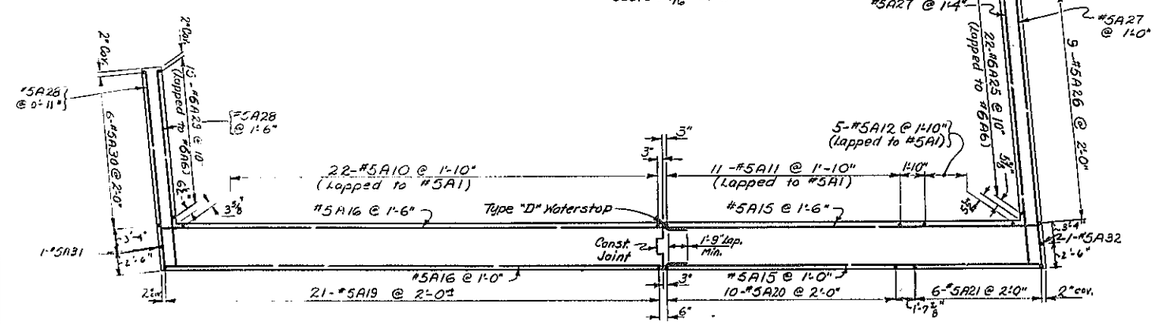
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	219	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

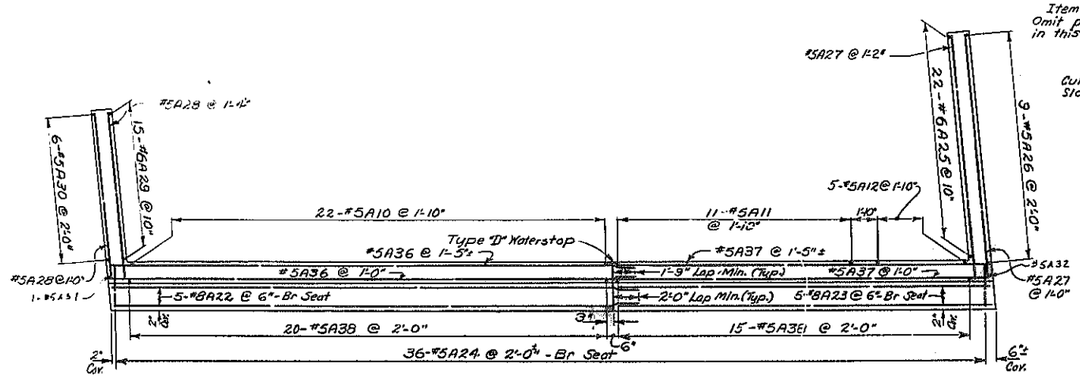
CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75



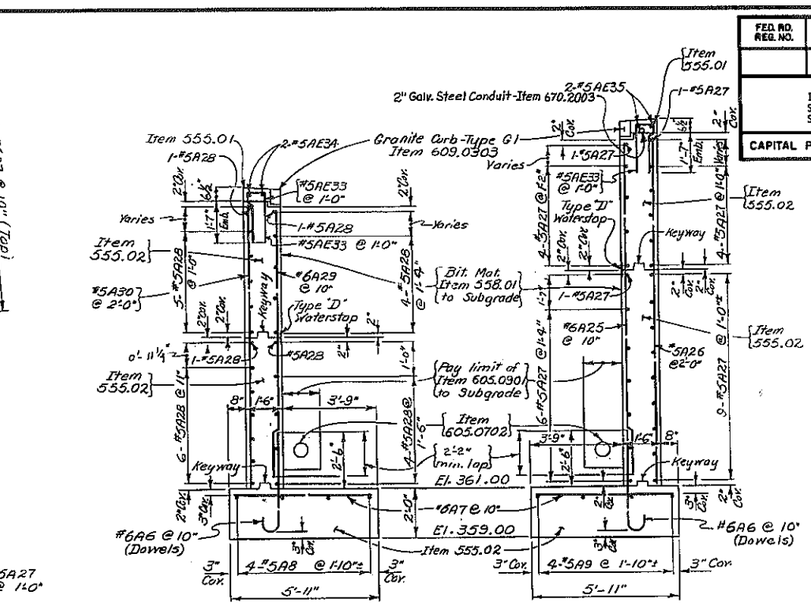
FOOTING REINFORCEMENT PLAN
Scale: 3/16" = 1'-0"



STEM AND LOWER WINGWALL REINFORCEMENT
Scale: 3/16" = 1'-0"

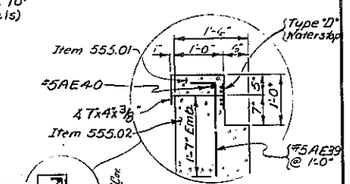


BACKWALL AND UPPER WINGWALL REINFORCEMENT
Scale: 3/16" = 1'-0"

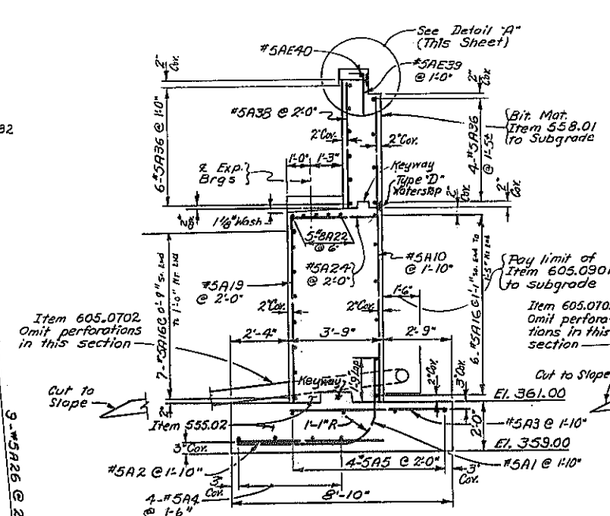


SECTION C-C
Scale: 3/8" = 1'-0"

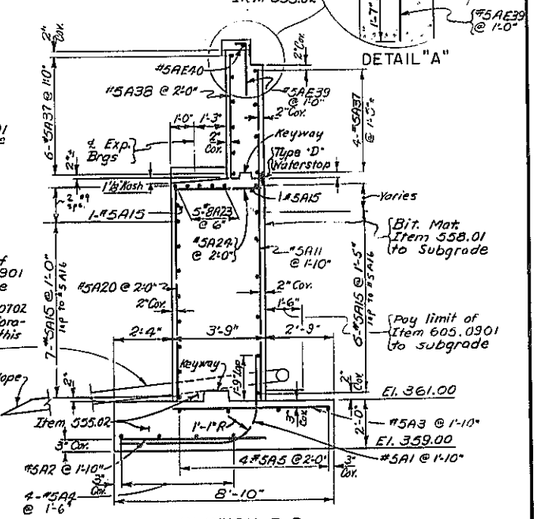
SECTION D-D
Scale: 3/8" = 1'-0"



DETAIL "A"



SECTION A-A
Scale 3/8" = 1'-0"



SECTION B-B
Scale: 3/8" = 1'-0"

Notes:
For "Top Of Wingwall Detail" see Dwg No. 19
For "Keyway Details", "Type D Waterstop", and Granite Curb-Type G-1" See Dwg No. 19

All footing reinforcement shall have a cover of 3" unless shown, otherwise all other reinforcement shall have a cover of 2" unless shown otherwise.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
WEST ABUTMENT

PROJ. ENG. H. Yardman | DATE MADE
BOUND, C. Kowalski | DRAWING NO. 7 OF 27

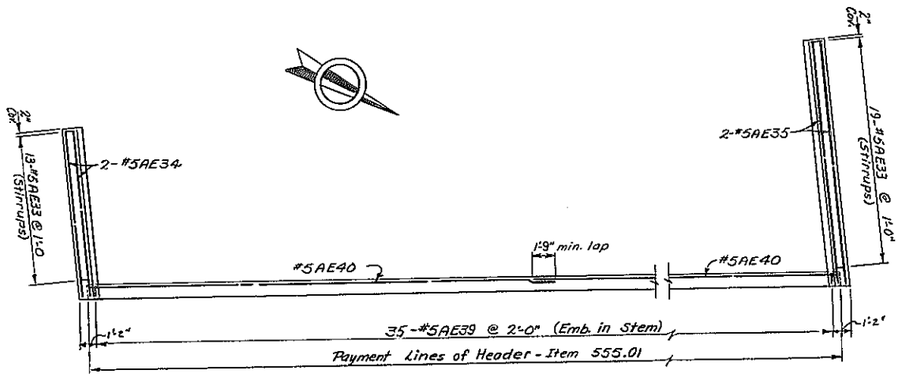
DETAILED BY J. Dumont
DESIGN CHECKED BY J. Brennan
DETAIL CHECKED BY J. Brennan
DESIGNED BY C. J. Kopp

D96243

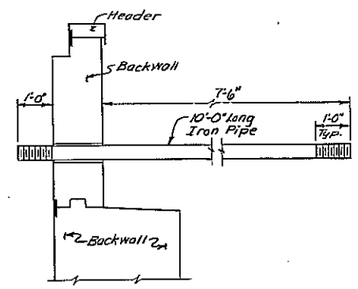
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	220R1	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

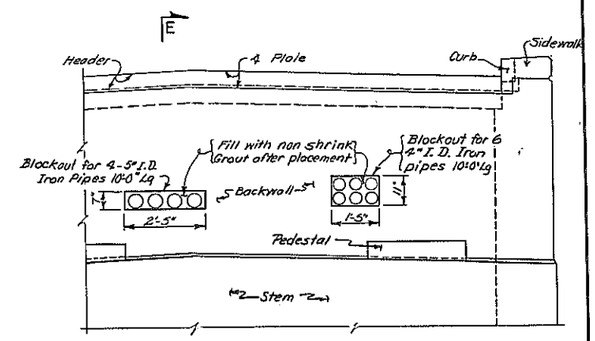
CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75



HEADER & BRUSH CURB OVERLAY REINFORCEMENT
Scale: 3/16" = 1'-0"

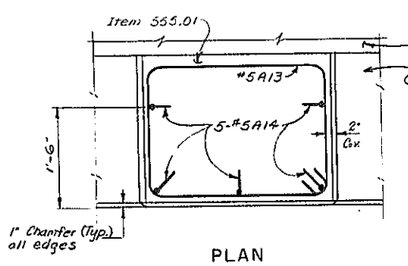


SECTION E-E
Scale: ½" = 1'-0"

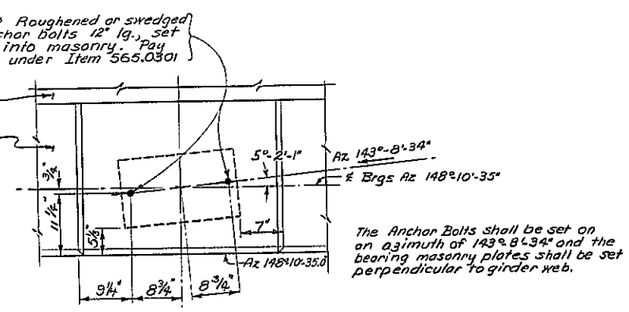


UTILITIES AT ABUTMENT
Scale: ½" = 1'-0"

Note: The Telephone Co. and The Electric Co. shall furnish the 10'-0" long Iron Pipe (threaded on both ends) to be installed under under Items ~~16695.15 and~~ 16695.19 AND 16695.20 ~~16695.16~~. The non shrink grout shall be included in the bid price for Items ~~16695.15~~ & ~~16695.16~~, 16695.19 16695.20

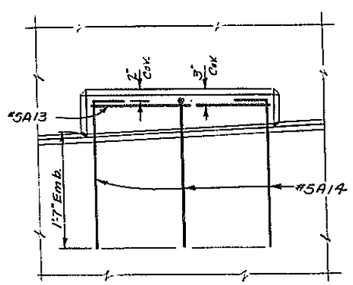


PLAN



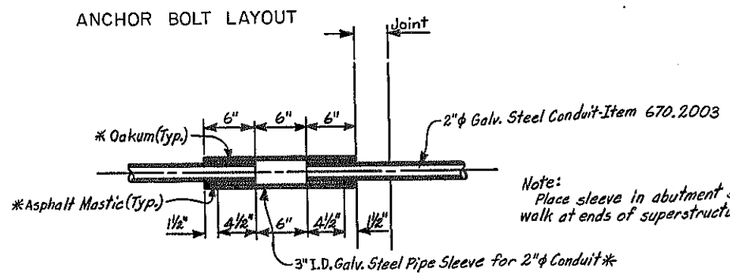
The Anchor Bolts shall be set on an azimuth of 143°8'34" and the bearing masonry plates shall be set perpendicular to girder web.

ANCHOR BOLT LAYOUT



ELEVATION

PEDESTAL DETAILS
Scale: 1" = 1'-0"



Note:
Place sleeve in abutment safety walk at ends of superstructure.

TYPICAL SLEEVE DETAIL
Scale: 1½" = 1'-0"

* Note:
Include in bid price for Item 670.2003.

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
WEST ABUTMENT

PROJ. ENG. | DATE MADE
SQUAD C. | DRAWING NO. 8 OF 27

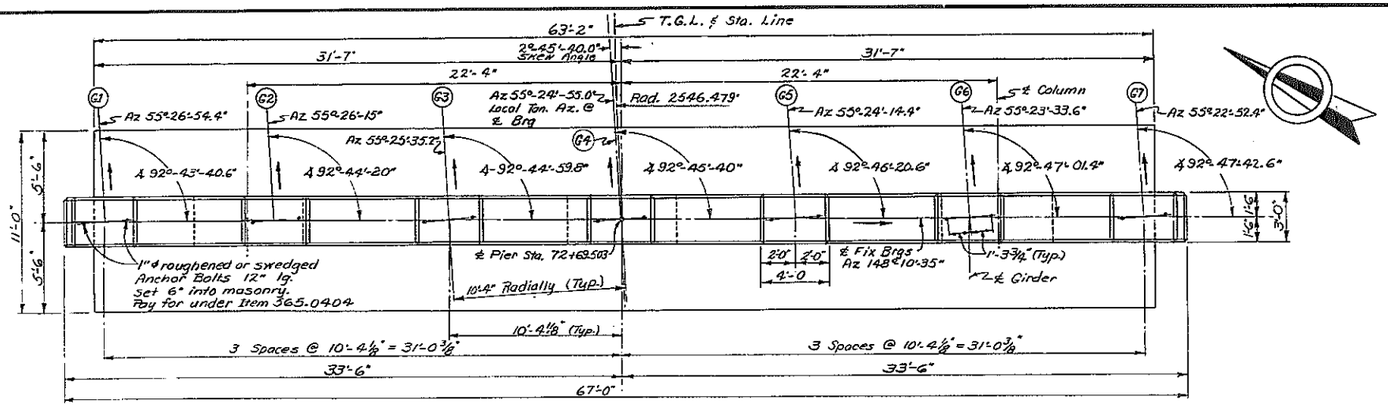
DETAIL CHECKED BY C. J. Bergeron
DETAILED BY L. Durant
DESIGN CHECKED BY C. J. Bergeron
DESIGNED BY Paul Lupson

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	1-88-2(10)	221	284

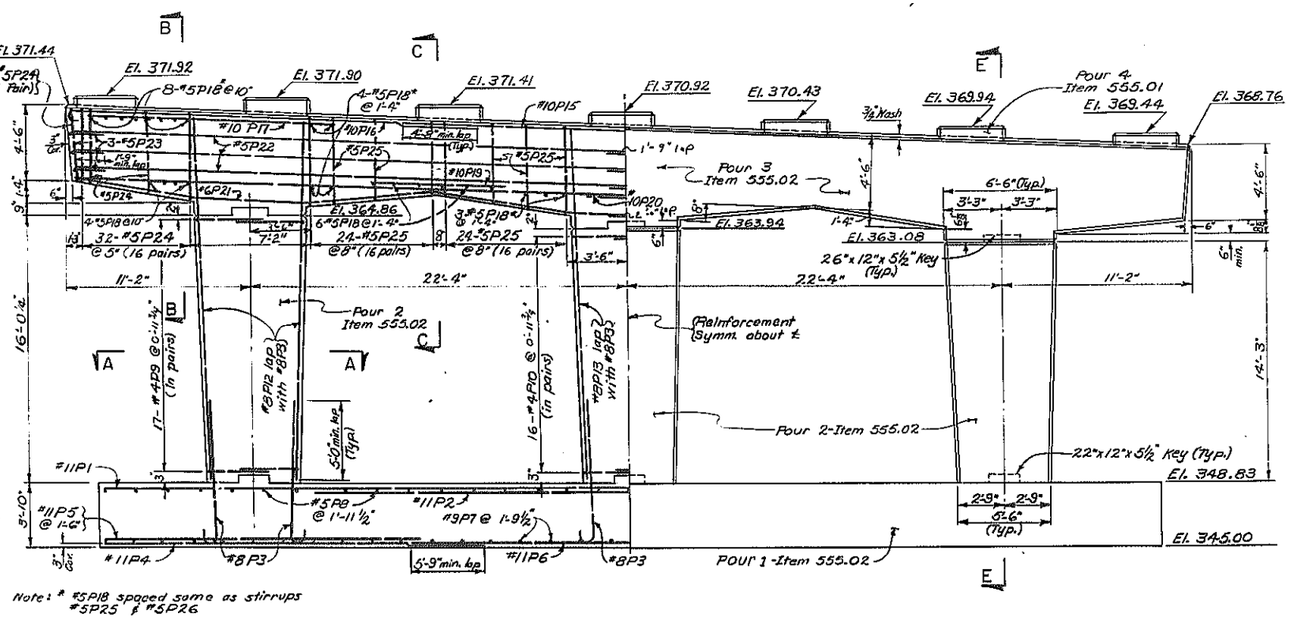
188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75

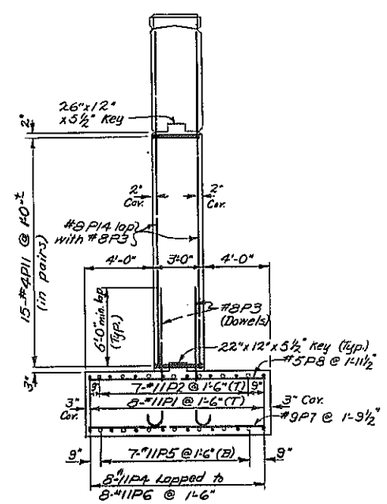


PLAN
Scale: 1/4" = 1'-0"

POUR TABLE		
POUR	ITEM 555.01	ITEM 555.02
1		98.6 C.Y.
2		30.3 C.Y.
3		39.4 C.Y.
4	2.3 C.Y.	



ELEVATION
Scale: 1/4" = 1'-0"



SECTION E-E
Scale: 1/4" = 1'-0"

Note: 7-#11P2 @ center column only

Notes:
For Bearing Details see Dwg No. 22
For Pedestal Details see Dwg No. 10
For Anchor Bolt Detail see Dwg No. 22
For Design Purposes Foundation Pressure does not exceed 2 1/2 T.S.F.

All footing reinforcement shall have a cov. of 3" unless shown otherwise, all other reinforcement shall have a cover of 2" unless shown otherwise.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
PIER

PROJ. ENG. [illegible] DATE MADE
SQUAD [illegible] DRAWING NO. 9 OF 27

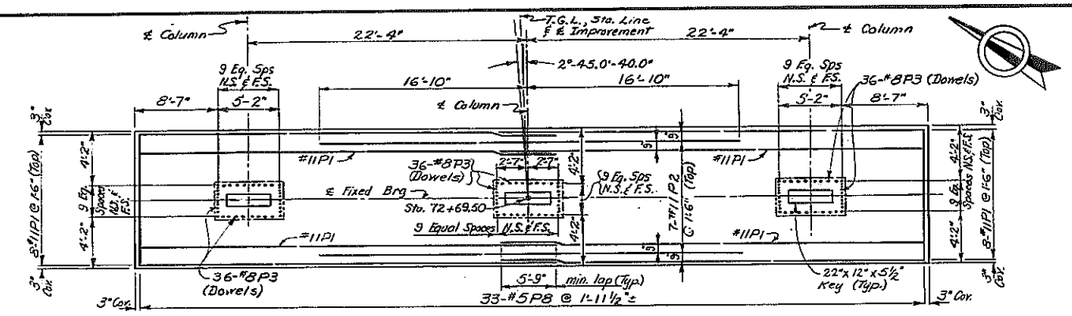
DETAILED BY J. Dumont DETAIL CHECKED BY [illegible]
DESIGN CHECKED BY [illegible]
DESIGNED BY [illegible]

D96243

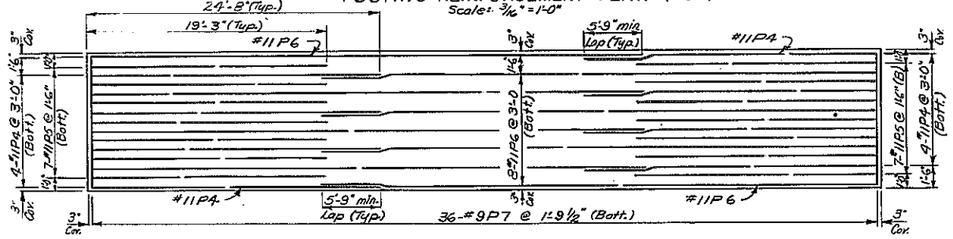
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	222	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

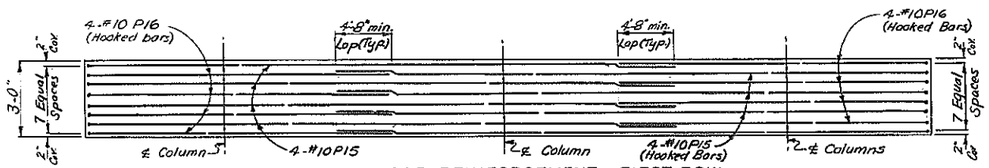
CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75



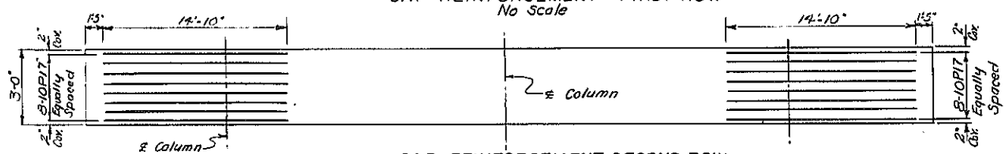
FOOTING REINFORCEMENT PLAN (TOP)
Scale: 3/16" = 1'-0"



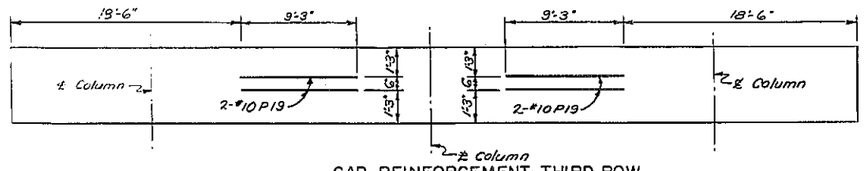
FOOTING REINFORCEMENT PLAN (BOTTOM)
Scale: 3/16" = 1'-0"



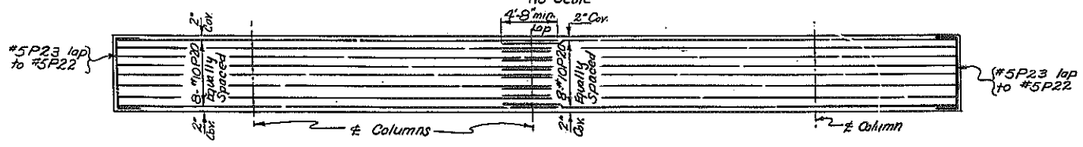
CAP REINFORCEMENT - FIRST ROW
No Scale



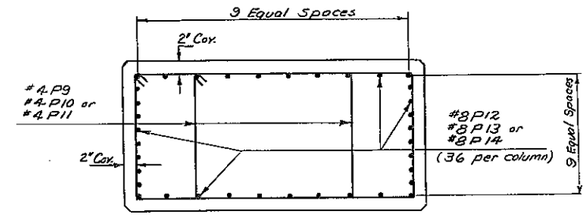
CAP REINFORCEMENT-SECOND ROW
No Scale



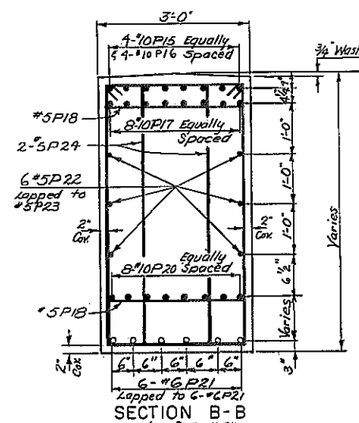
CAP REINFORCEMENT-THIRD ROW
No Scale



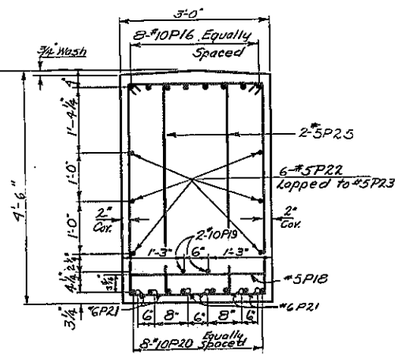
CAP REINFORCEMENT-FOURTH ROW
No Scale



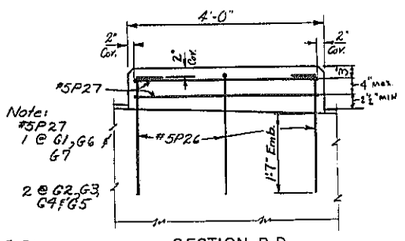
SECTION A-A
Scale: 3/16" = 1'-0"



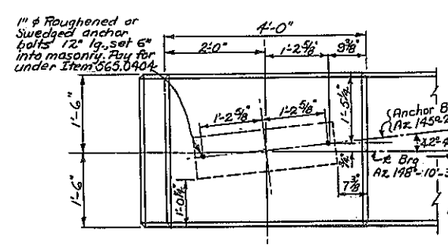
SECTION B-B
Scale: 3/4" = 1'-0"



SECTION C-C
Scale: 3/4" = 1'-0"

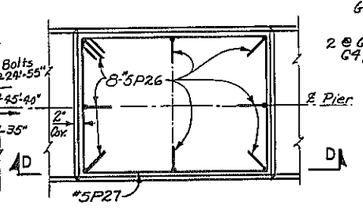


SECTION D-D
Scale 3/4" = 1'-0"



TYPICAL ANCHOR BOLT LAYOUT
Scale: 3/4" = 1'-0"

Note: The Anchor Bolts shall be set on an azimuth of 143°-24'-55" and the bearing masonry plates shall be set perpendicular to girder web.



PEDESTAL REINFORCEMENT PLAN
Scale: 3/4" = 1'-0"

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
PIER

PROJ. ENG. | DATE MADE
SQUAD | DRAWING NO. 10 OF 27

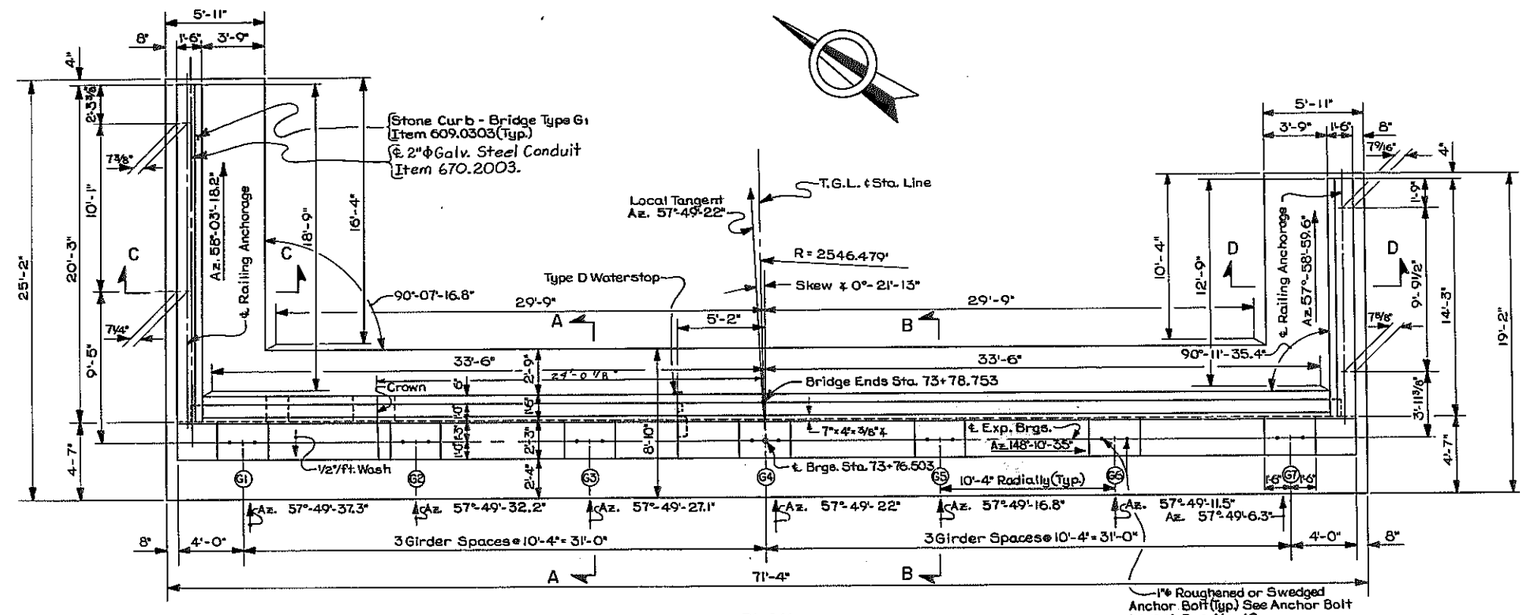
DETAILED BY J. Dunnant
DESIGN CHECKED BY C. J. Brassard
DETAIL CHECKED BY C. J. Brassard
DESIGNED BY Joseph S. Drake

D96243

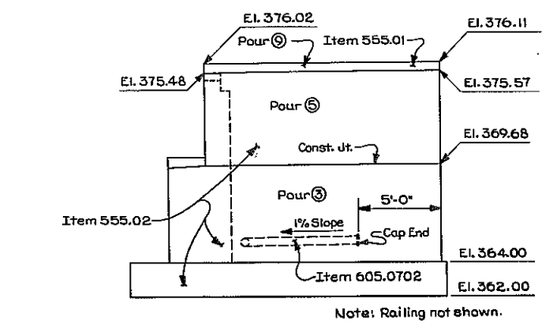
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	223	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

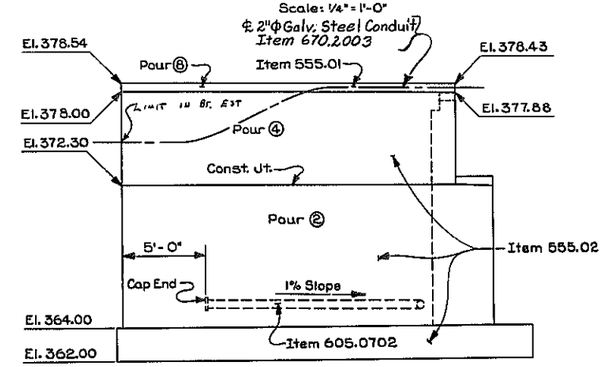
CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75



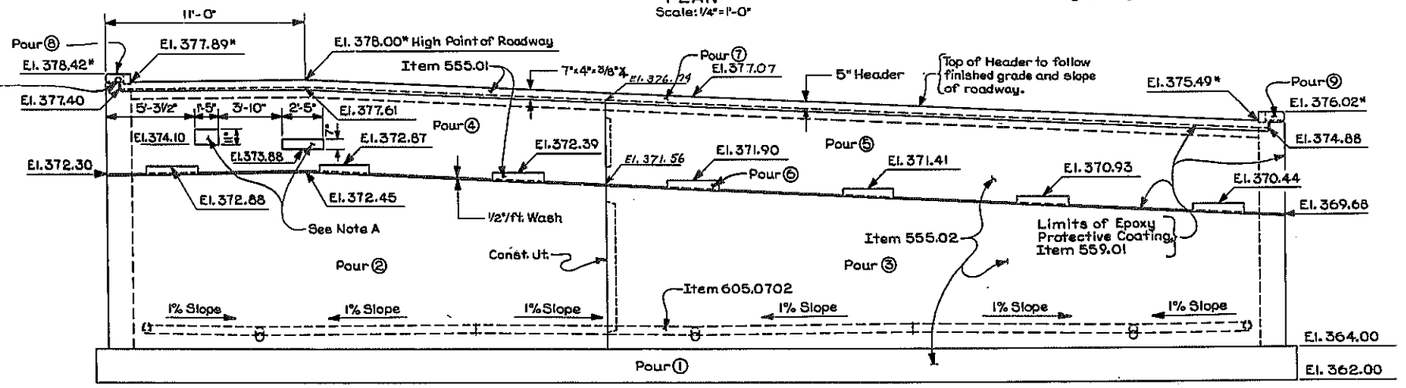
PLAN
Scale: 1/4" = 1'-0"



S.E. WINGWALL ELEVATION
Scale: 1/4" = 1'-0"

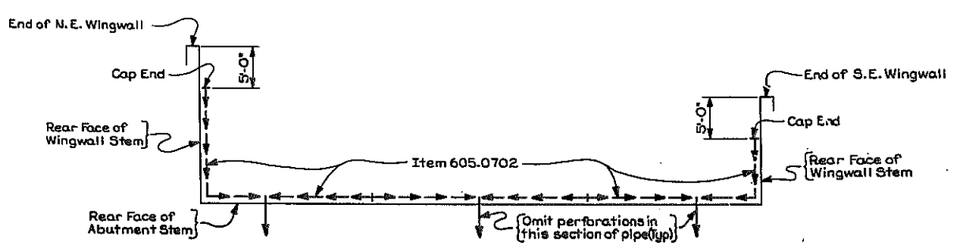


N.E. WINGWALL ELEVATION
Scale: 1/4" = 1'-0"



ELEVATION
Scale: 1/4" = 1'-0"

* Elev. @ Front Face of Backwall
Note A: Blockout opening in backwall for Utilities see Dwg. No. 8 for details.



UNDERDRAIN PLAN & FLOW DIAGRAM
Not to Scale

POUR TABLE		
Pour	Item 555.01	Item 555.02
1	—	58.4 cy
2	—	42.2 cy
3	—	40.9 cy
4	—	14.0 cy
5	—	15.0 cy
6	1.0 cy	—
7	1.1 cy	—
8	.5 cy	—
9	.4 cy	—

Notes:
For Waterstop Details See Dwg. No. 19.
For Railing Details See Dwg. No. 24.
For Curb Details See Dwg. No. 19.
For Bearing Details See Dwg. No. 22.
For Sections A-A, B-B, C-C & D-D See Dwg. No. 13.
For Design Purposes the Foundation Pressure does not exceed 2½ Tons/S.F.
For Pedestal Details See Dwg. No. 12.
For Joint Details See Dwg. No. 21.
For Anchor Bolt Details See Dwg. No. 22.
For Top of Wingwall Detail See Dwg. No. 19.

All footing reinforcement shall have a cover of 3" unless shown, otherwise, all other reinforcement shall have a cover of 2" unless shown otherwise.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
EAST ABUTMENT

PROJ. ENG. | DATE MADE
SQUAD | DRAWING NO. 11 OF 27

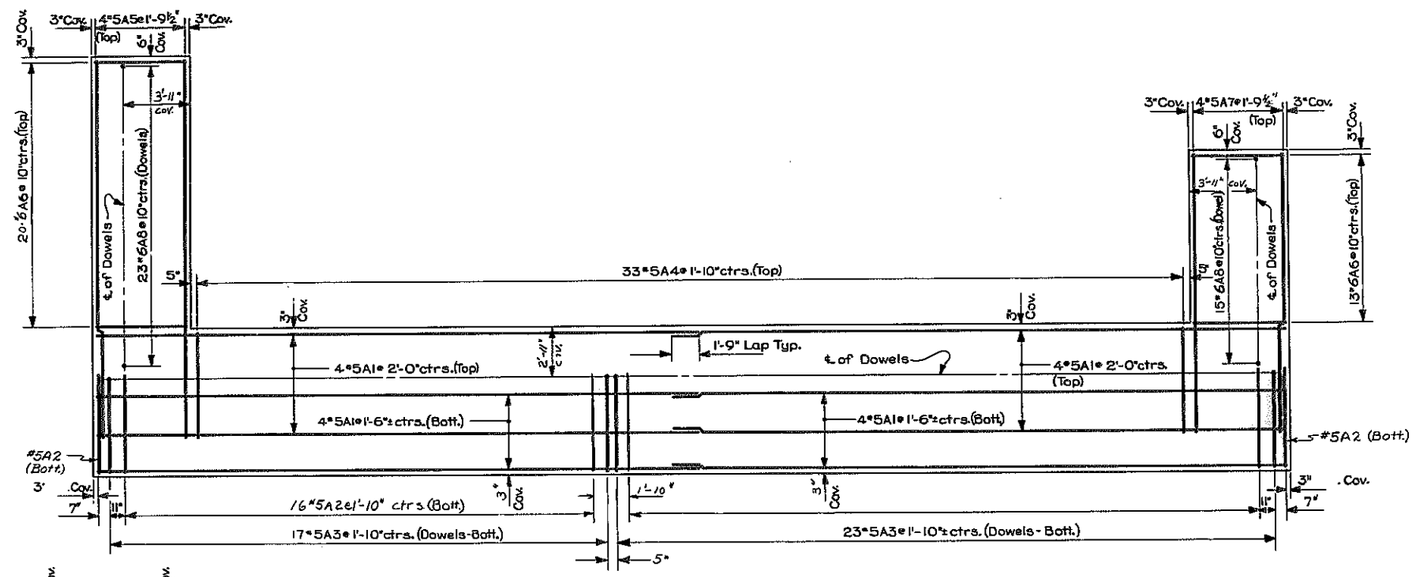
DETAIL CHECKED BY
DETAILED BY J.F. Darcy
DESIGN CHECKED BY
DESIGNED BY

D96243

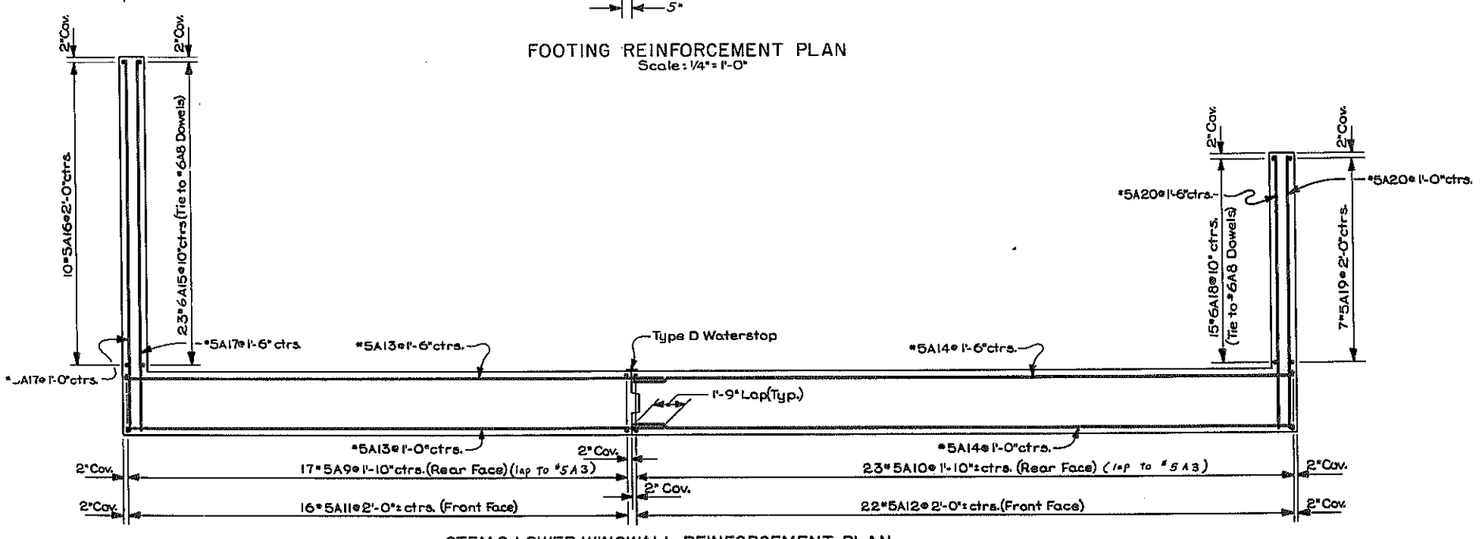
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	224	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

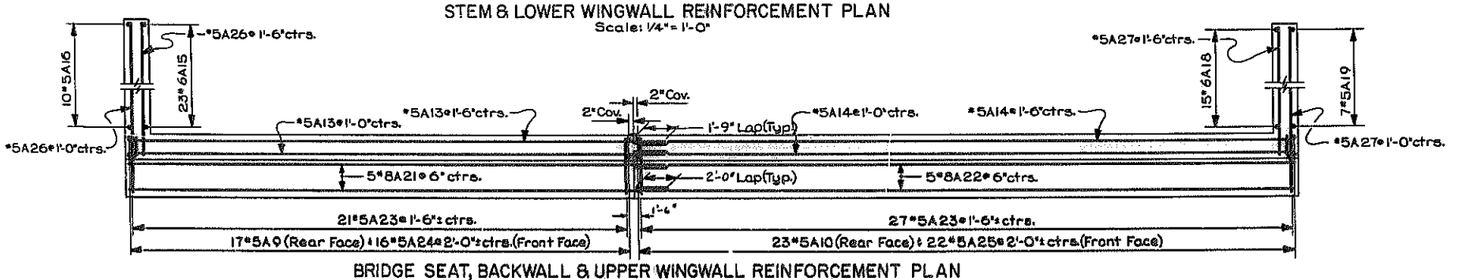
CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75



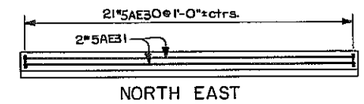
FOOTING REINFORCEMENT PLAN
Scale: 1/4" = 1'-0"



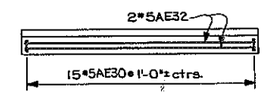
STEM & LOWER WINGWALL REINFORCEMENT PLAN
Scale: 1/4" = 1'-0"



BRIDGE SEAT, BACKWALL & UPPER WINGWALL REINFORCEMENT PLAN
Scale: 1/4" = 1'-0"

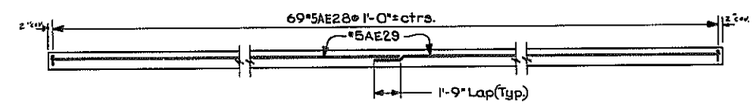


NORTH EAST

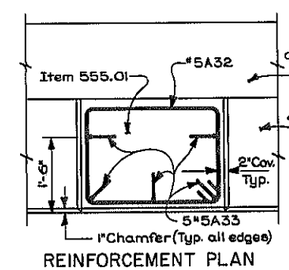


SOUTH EAST

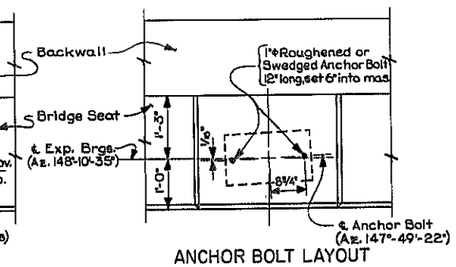
SIDEWALK REINFORCEMENT PLANS
Scale: 1/4" = 1'-0"



HEADER REINFORCEMENT PLAN
Scale: 1/4" = 1'-0"

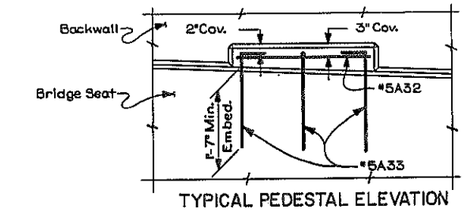


REINFORCEMENT PLAN



ANCHOR BOLT LAYOUT

Note: The Anchor Bolts shall be set on Az. 147°-49'-22" and the bearing masonry plate shall be set perpendicular to girder web.



TYPICAL PEDESTAL ELEVATION

PEDESTAL DETAILS
Scale: 3/4" = 1'-0"

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
EAST ABUTMENT

PROJ. ENG. [illegible] | DATE MADE
SQUAD [illegible] | DRAWING NO. 12 OF 27

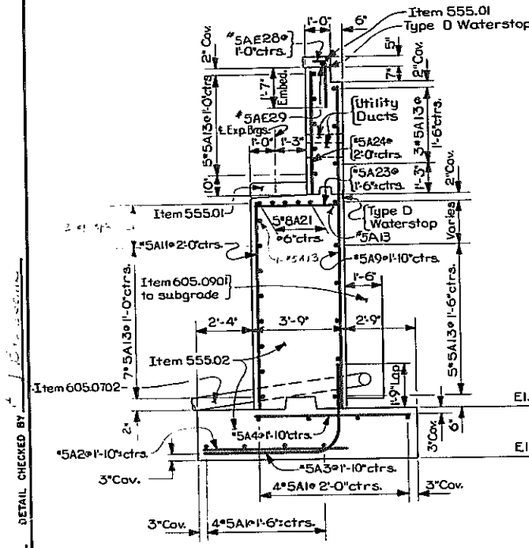
DETAILED BY J.F. Darcy
DESIGN CHECKED BY [illegible]
DETAIL CHECKED BY [illegible]
DESIGNED BY [illegible]

D96243

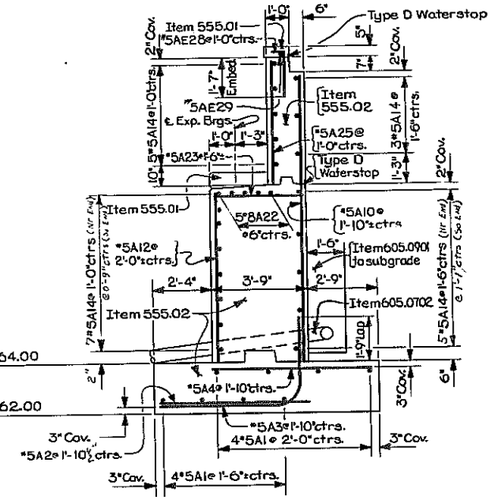
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	225R1	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

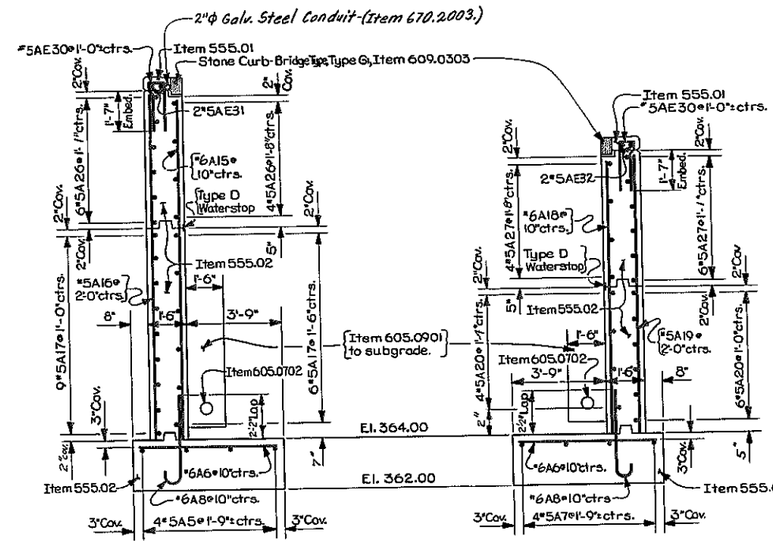
CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75



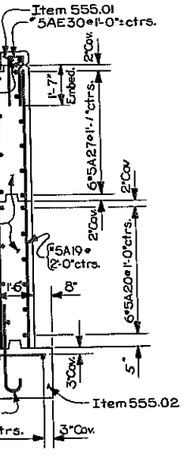
SECTION A-A
Scale: 3/8" = 1'-0"



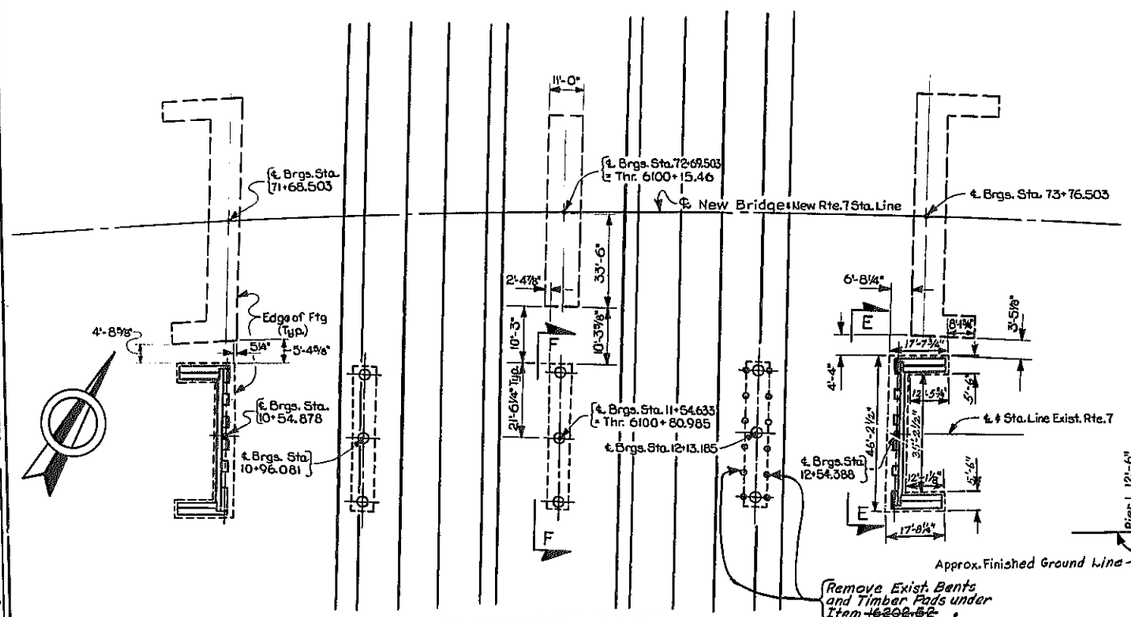
SECTION B-B
Scale: 3/8" = 1'-0"



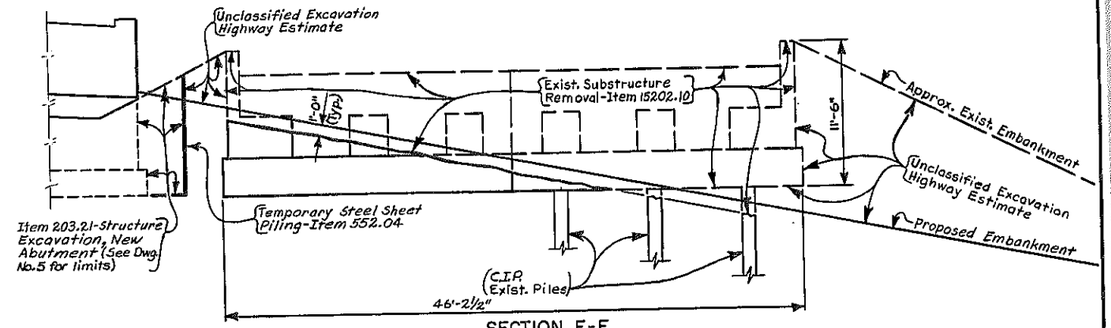
SECTION C-C
Scale: 3/8" = 1'-0"



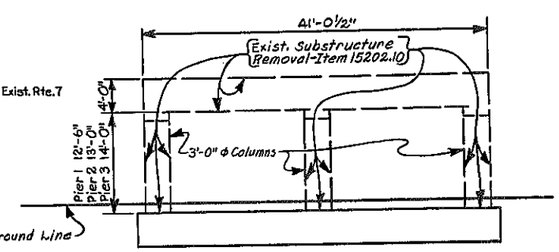
SECTION D-D
Scale: 3/8" = 1'-0"



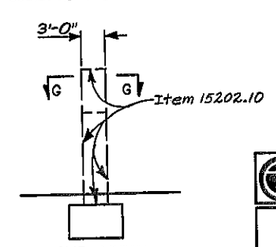
EXIST. STRUCTURE REMOVAL
Scale: 1" = 20'-0"



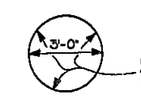
SECTION E-E
Scale: 3/16" = 1'-0"



SECTION F-F
Scale: 1/8" = 1'-0"



END VIEW
Scale: 1/8" = 1'-0"



SECTION G-G
Scale: 3/8" = 1'-0"

Limits of Substructure Removal, Item 15202.10

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
EAST ABUTMENT

PROJ. ENG. | DATE MADE
SQUAD | DRAWING NO. 13 OF 27

DESIGNED BY | DESIGN CHECKED BY | DETAILED BY J.F. Darcy | DETAIL CHECKED BY

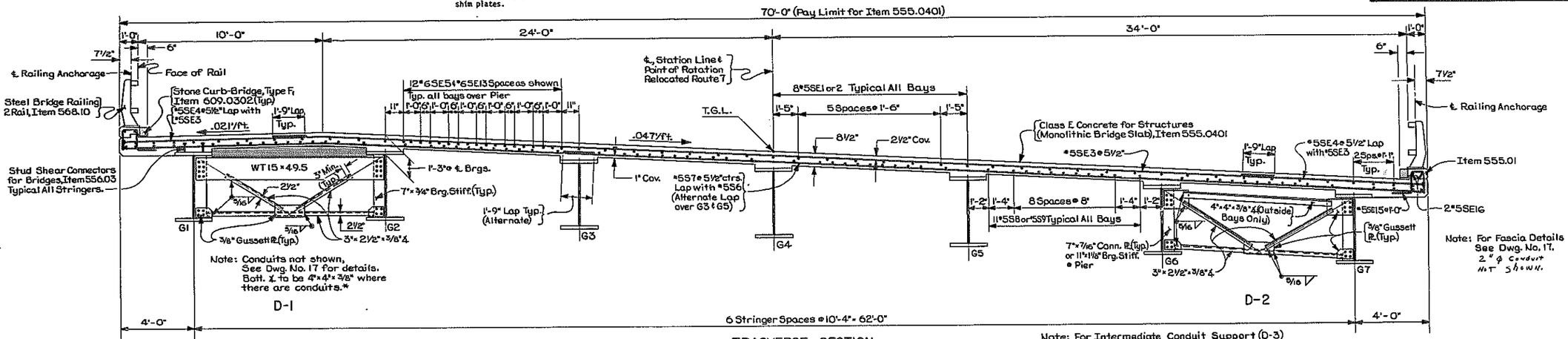
D96243

1. Where holes are indicated, connections shall be 7/8" diameter high-strength bolts.
2. Cross frames may be fabricated to fit the girders in their erected position and cambered shape, but deflected vertically under the dead load of the steel work only.
3. The Contractor may place diaphragms on either side of the bearing stiffeners or stiffener connection plates as necessary to correct alignment provided there will be no inteference with other structural details.
4. Snipe the outstanding leg of all angles and plates 1" minimum.
5. Tapered or flat shim plates may be used in the connection between skewed diaphragms and the bearing stiffeners or stiffener connection plates. Variable thicknesses of shim plates may be used. The minimum thickness of shim plate shall be 1/8" with a maximum number of three shim plates permitted at any connection. The total thickness of all shim plates used at any connection shall not exceed 1". Shim plates shall have the dimensions of the faying surface. The shim material shall conform to ASTM Designation A36, except that on unpainted structures, the shim material shall conform to ASTM Designation A588. No additional payment will be made for furnishing and placing the shim plates.
6. Both the gusset plate and flange are to be same type of steel.
7. Field welding to the gusset plate will not be permitted.

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	226	284

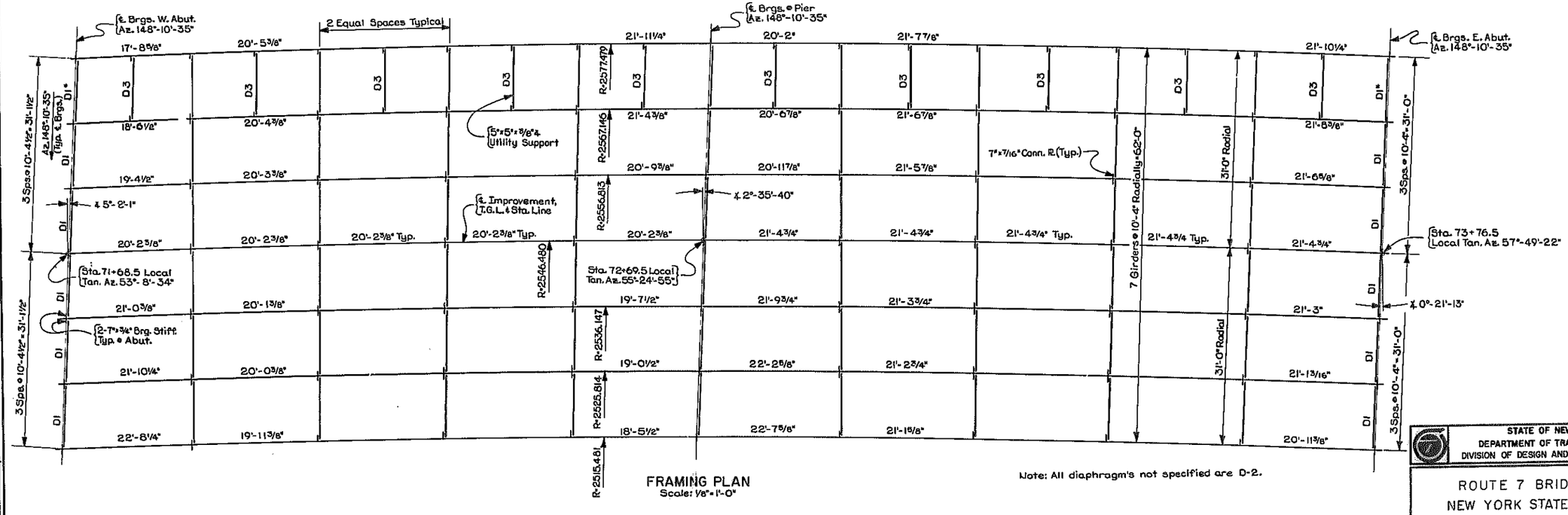
I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75



TRASVERSE SECTION
Scale: 3/8" = 1'-0"

Note: For Intermediate Conduit Support (D-3) See Dwg. No. 17.



FRAMING PLAN
Scale: 1/8" = 1'-0"

Note: All diaphragm's not specified are D-2.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY

FRAMING PLAN

PROJ. ENG. | DATE MADE
SQUAD | DRAWING NO. 14 OF 27

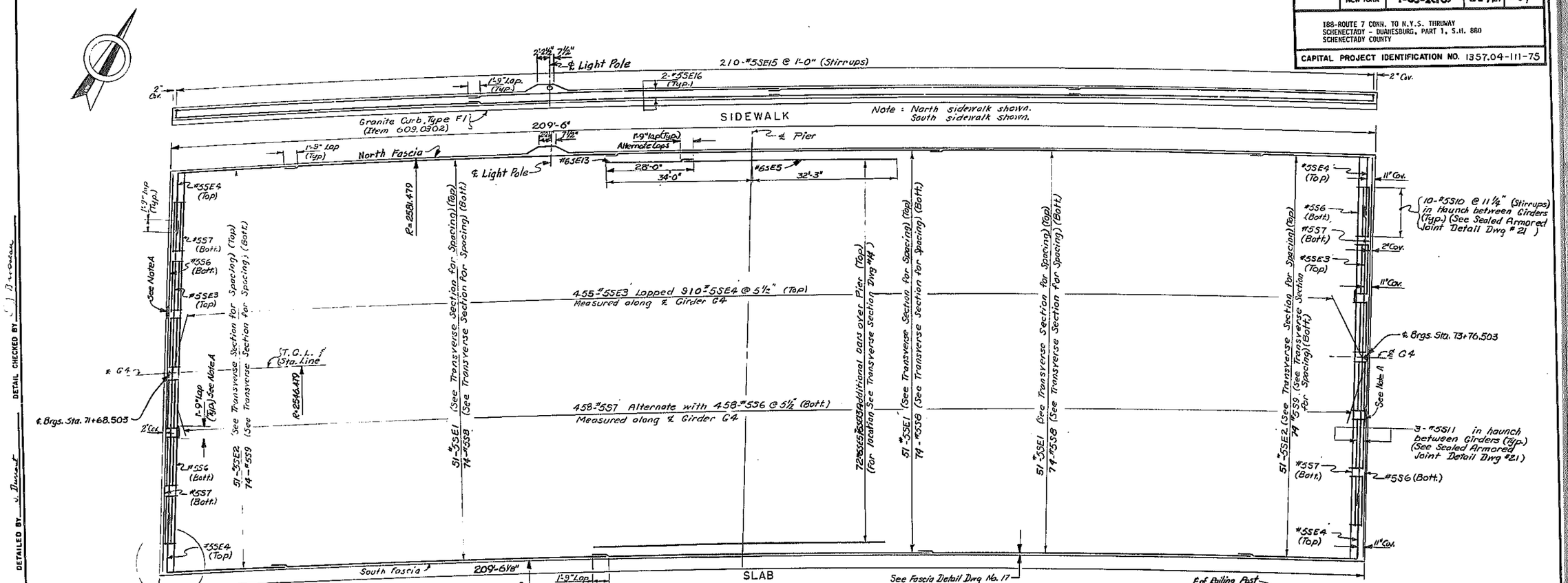
DESIGNED BY | DESIGN CHECKED BY | DETAILED BY J.F. Darcy | DETAIL CHECKED BY

D96243

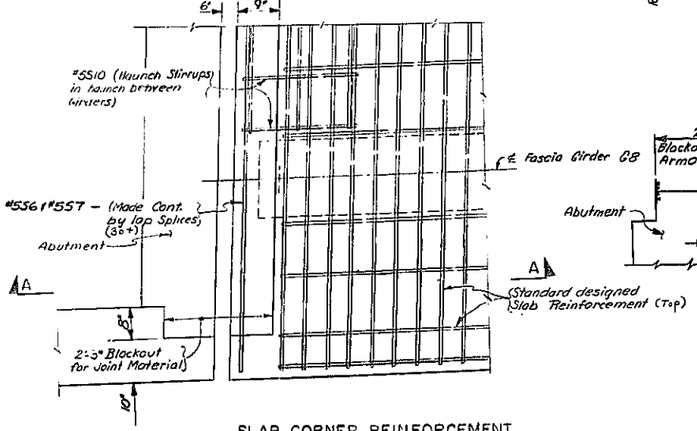
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	227R1	289

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 860
SCHENECTADY COUNTY

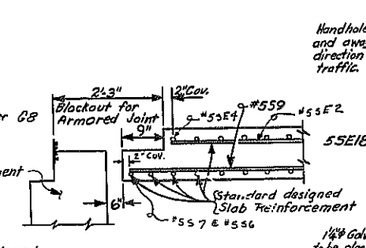
CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75



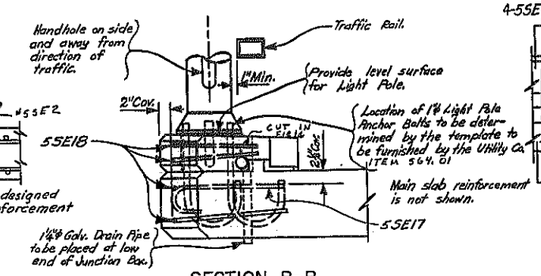
SLAB
SUPERSTRUCTURE REINFORCEMENT
Scale: ⅛" = 1'-0"



SLAB CORNER REINFORCEMENT
Scale: 3/16" = 1'-0"

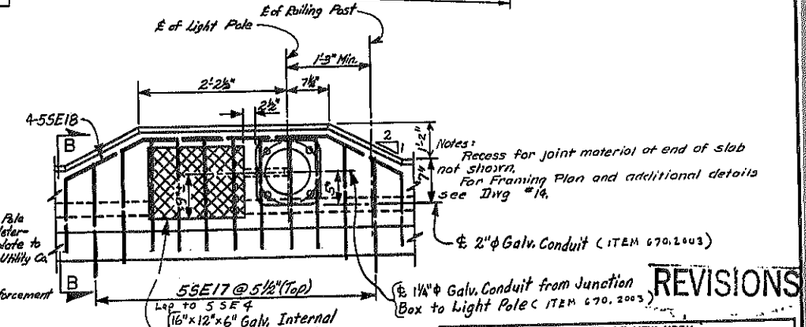


SECTION A-A
Scale: ¾" = 1'-0"



SECTION B-B
Scale: 1" = 1'-0"

Type of Light Pole to be determined by the district office. Transformer bases will not be permitted.



PLAN LIGHT POLE SUPPORT
Scale: 1" = 1'-0"

CONCRETE TABLE		
	ITEM 555.0402	ITEM 555.01
SLAB	14665 S.F.	—
SIDEWALK	—	9.1 C.Y.

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY

SLAB REINFORCEMENT

PROJ. ENG. | DATE MADE
SQUAD | DRAWING NO. 15 OF 27

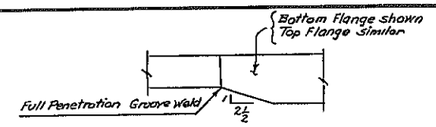
DETAILED BY | DETAIL CHECKED BY | DESIGN CHECKED BY | DESIGNED BY

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	228	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75

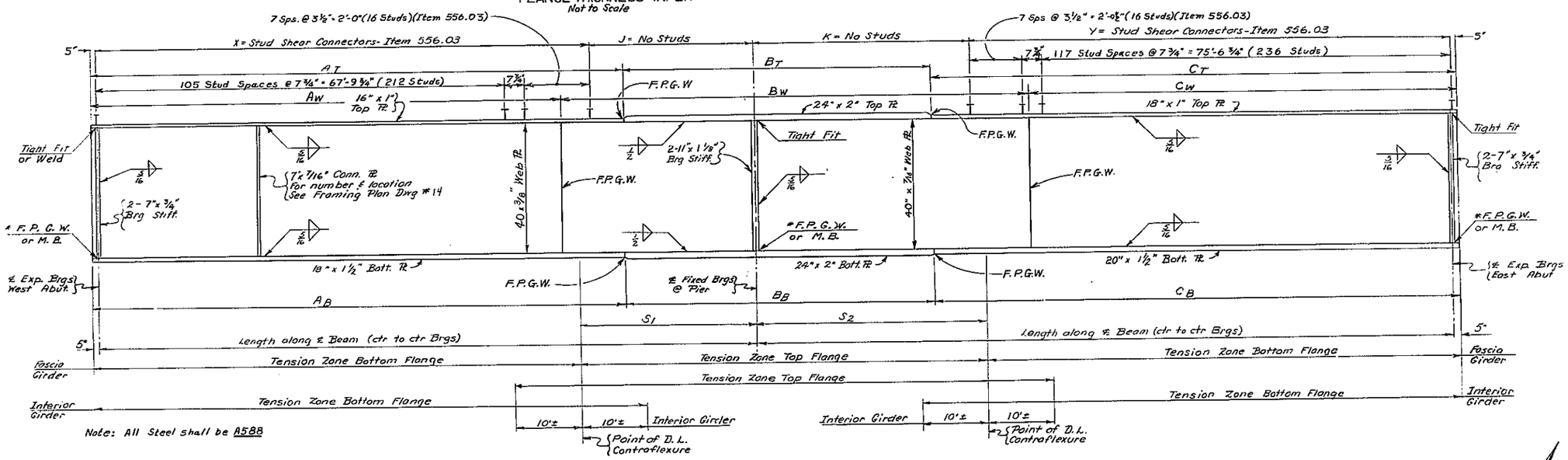


FLANGE THICKNESS TAPER
Not to Scale

WELD TABLE	
THICKERER PLATE THICKNESS	WELD SIZE
To 1½"	5/16"
over 1½" to 2¼"	½"

Note: Weld size need not exceed the thickness of the thinner part joined.

Welding Notes
* F.P.G.W. = Full Penetration Groove Weld



Note: All Steel shall be A588

SPAN 1

SPAN 2

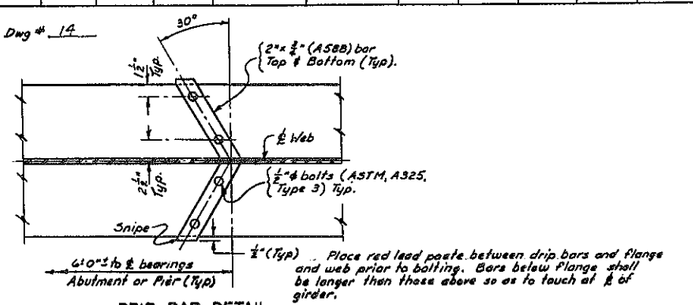
GIRDER DETAIL
Not to Scale

The ends of all girders and the bearing stiffeners shall be vertical. All connection plates may be perpendicular to the top flange.

GIRDER SCHEDULE

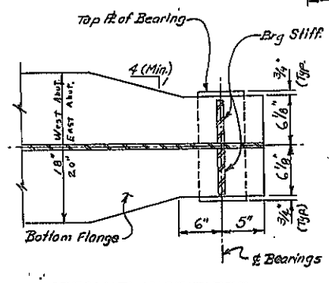
MARK	RADIUS OF CURVATURE	SPAN 1 LGTH.	SPAN 1 DIA.° SPNG	SPAN 2 LGTH	SPAN 2 DIA.° SPNG	TOTALS OF TWO SPANS	D.L. PT. OF CONTRAFLEXURE S_1	D.L. PT. OF CONTRAFLEXURE S_2	SHEAR CONNECTORS-LENGTH X	J	K	Y	TOP FLANGE LENGTH A_T	B_T	C_T	BOTTOM FLANGE LENGTH A_B	B_B	C_B	WEB ℄ LENGTH A_W	B_W	C_W
G1	2577.479	100.99		107.00		207.99	32.0	30.0	70.5	30.5	28.75	78.25	82.41	34.0	92.42	90.41	21.0	97.42	69.41	62.0	77.41
G2	2567.146	101.00		107.00		208.00	32.0	30.0	70.5	30.5	28.75	78.25	82.42	34.0	92.42	90.42	21.0	97.42	69.42	62.0	77.41
G3	2556.812	101.00		107.00		208.00	32.0	30.0	70.5	30.5	28.75	78.25	82.42	34.0	92.42	90.42	21.0	97.42	69.42	62.0	77.41
G4	2546.479	101.00		107.00		208.00	32.0	30.0	70.5	30.5	28.75	78.25	82.42	34.0	92.42	90.42	21.0	97.42	69.42	62.0	77.41
G5	2536.146	101.00		107.00		208.00	32.0	30.0	70.5	30.5	28.75	78.25	82.42	34.0	92.42	90.42	21.0	97.42	69.42	62.0	77.41
G6	2525.812	101.00		107.00		208.00	32.0	30.0	70.5	30.5	28.75	78.25	82.42	34.0	92.42	90.42	21.0	97.42	69.42	62.0	77.41
G7	2515.479	101.01		107.00		208.01	32.0	30.0	70.5	30.5	28.75	78.25	82.43	34.0	92.42	90.43	21.0	97.43	69.43	62.0	77.41

* See Framing Plan on Dwg # 14

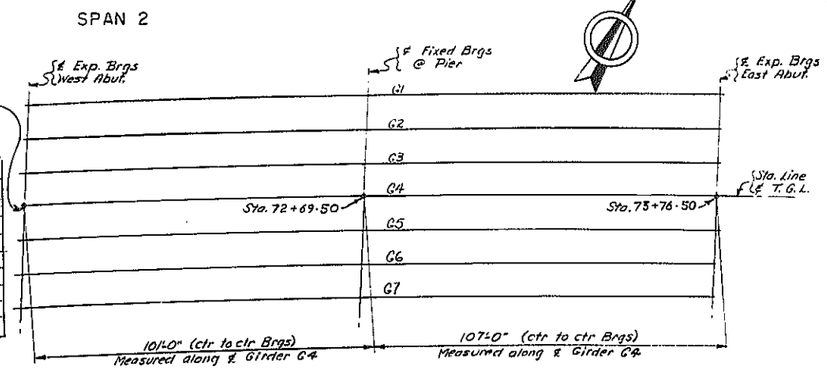


Place red lead paste between drip bars and flange and web prior to bolting. Bars below flange shall be longer than those above so as to touch at ℄ of girder.

DRIP BAR DETAIL
Not to Scale



BOTTOM FLANGE TAPER
Not to Scale



GIRDER SCHEMATIC
Not to Scale

Notes:
For Stud Shear Connector Details see Dwg #19
For Slab Haunch Table see Dwg #19
For Girder Sections see Dwg # 17
For DESIGN LOAD TABLE/GIRDER see Dwg # 18

Note to the Contractor:
Within the tension zones delineated, there shall be no welding permitted other than what is detailed on the plans. Welding for the attachment of forms, ties, etc. shall not be permitted.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY

WELDED ℄ GIRDER DETAILS

PROJ. ENG. [illegible] | DATE MADE
SQUAD [illegible] | DRAWING NO. 16 OF 27

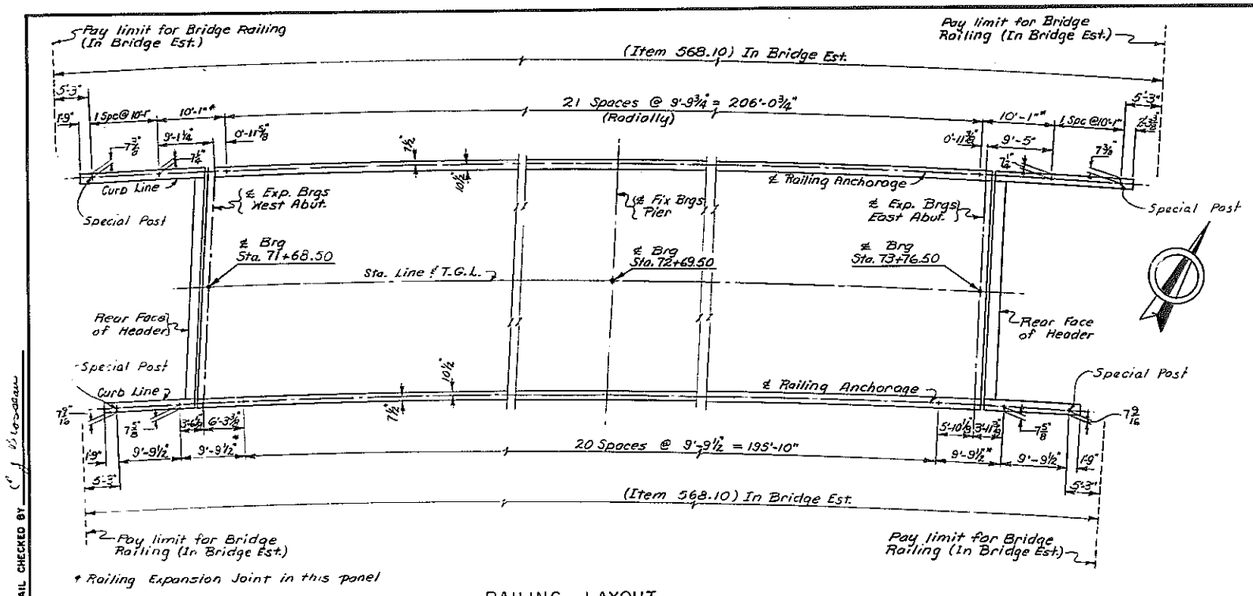
DESIGNED BY Paul Kuppen | DESIGN CHECKED BY Richard E. Ripplebe | DETAILED BY J. Dunscombe | DETAIL CHECKED BY [illegible]

D96243

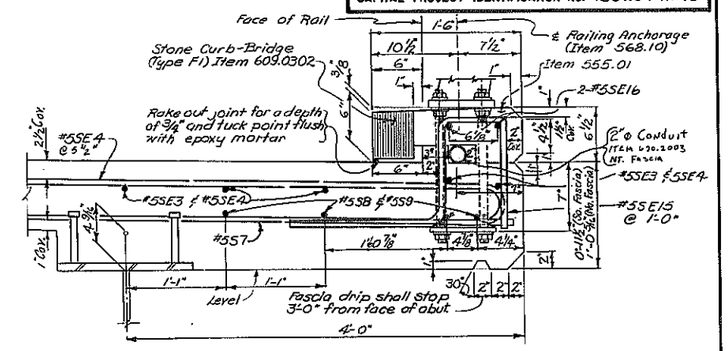
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	229	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

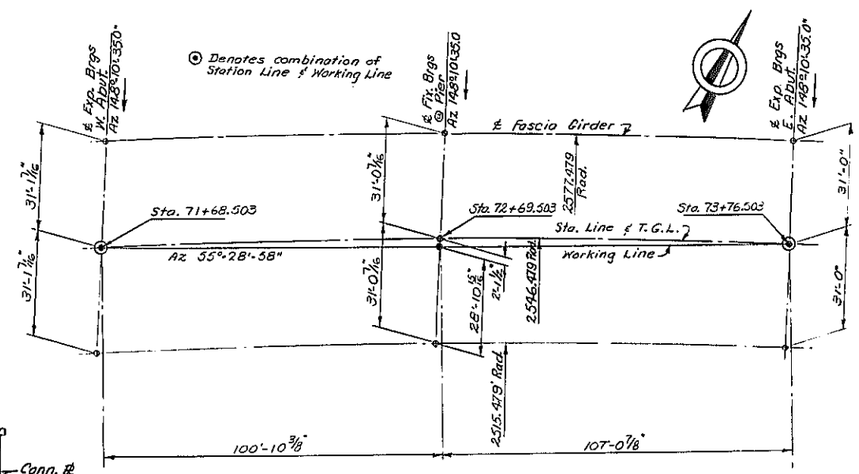
CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75



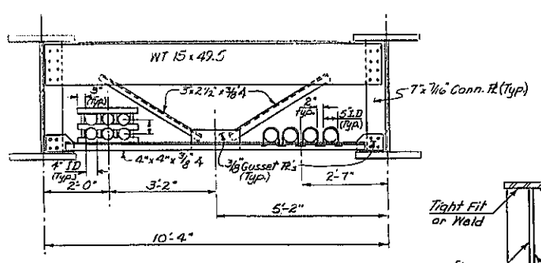
RAILING LAYOUT
No Scale



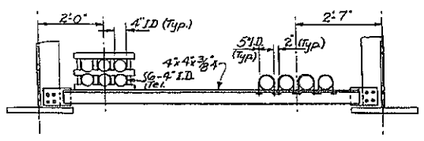
FASCIA DETAIL
Scale: 1½"=1'-0"



SCHEMATIC LAYOUT
Scale: 1"= 20'

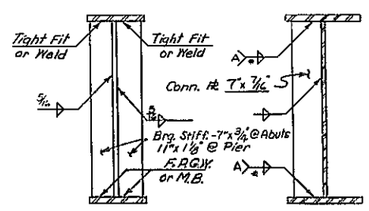


UTILITY SUPPORT AT DIAPHRAGMS
No Scale

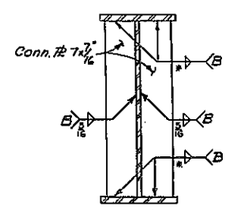


INTERMEDIATE UTILITY SUPPORT
No Scale

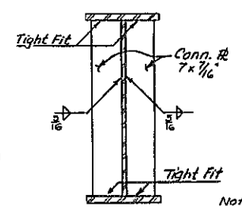
* See Weld Chart (Dwg No. 16)



BRG. STIFF. CONN PL - FASCIA GIRDER



CONN. PL - INTERIOR GIRDER



AT POINT OF D.L. CONTRAFLEXURE

Note: Limits are 10's either side of contraflexure point except on Fascia girders.

Welding Note "A"
No welding of stiffeners or connection plates to tension flanges. Plates shall be "tight fit."

Welding Note "B"
All connection plates used in pairs shall be welded to the web and be placed paint tight against both flanges or they can be connected by cutting the connection plates ½" short and then placing the connection plate tightly against the tension flange and welding the opposite end to the compression flange. Fitted Connection plates shall not be driven in place with sufficient force to distort the flange, web or connection plates.

GIRDER SECTIONS
Not to Scale

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
SUPERSTRUCTURE-MISCELLANEOUS

PROJ. ENG. N. Yorkes | DATE MADE
BOUND C. L. Brown | DRAWING NO. 17 OF 27

DESIGNED BY Paul Kryn | DESIGN CHECKED BY Richard R. Kendall | DETAILED BY J. Tunsart | DETAIL CHECKED BY

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	230	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75

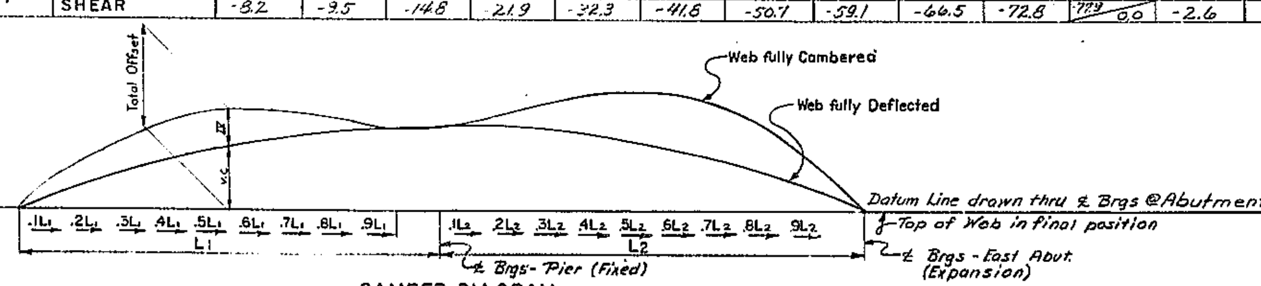
HAUNCH TABLE

GIRDERS		℄ BRGS. WEST ABUT.	0.1L₁	0.2L₁	0.3L₁	0.4L₁	0.5L₁	0.6L₁	0.7L₁	0.8L₁	0.9L₁	℄ BRGS. PIER	0.1L₂	0.2L₂	0.3L₂	0.4L₂	0.5L₂	0.6L₂	0.7L₂	0.8L₂	0.9L₂	℄ BRGS. EAST ABUT.
1	Ⓐ Req'd bottom of Slab Elevation	374.48	374.67	374.85	375.02	375.19	375.36	375.52	375.67	375.82	375.96	376.09	376.23	376.36	376.48	376.59	376.70	376.80	376.90	376.99	377.07	377.14
	Ⓑ Top of Steel Elevation (Field Meas.)																					
	Ⓒ = Ⓐ - Ⓑ																					
	Ⓓ Concrete + S.D.L. Deflection		.058	.103	.133	.141	.130	.102	.067	.029	.005		.019	.058	.109	.157	.189	.199	.183	.140	.076	
	Ⓔ Depth of Haunch req'd = Ⓒ + Ⓓ (ft.)																					
2	Ⓐ Req'd bottom of Slab Elevation	374.45	374.64	374.82	375.00	375.17	375.34	375.50	375.65	375.80	375.94	376.07	376.21	376.34	376.46	376.58	376.69	376.79	376.89	376.98	377.06	377.13
	Ⓑ Top of Steel Elevation (Field Meas.)																					
	Ⓒ = Ⓐ - Ⓑ																					
	Ⓓ Concrete + S.D.L. Deflection		.058	.103	.133	.141	.130	.102	.067	.029	.005		.019	.058	.109	.157	.189	.199	.183	.140	.076	
	Ⓔ Depth of Haunch req'd = Ⓒ + Ⓓ (ft.)																					
3	Ⓐ Req'd bottom of Slab Elevation	373.95	374.14	374.32	374.50	374.68	374.84	375.00	375.16	375.30	375.45	375.58	375.72	375.85	375.97	376.09	376.20	376.30	376.40	376.49	376.57	376.65
	Ⓑ Top of Steel Elevation (Field Meas.)																					
	Ⓒ = Ⓐ - Ⓑ																					
	Ⓓ Concrete + S.D.L. Deflection		.058	.103	.133	.141	.130	.102	.067	.029	.005		.019	.058	.109	.157	.189	.199	.183	.140	.076	
	Ⓔ Depth of Haunch req'd = Ⓒ + Ⓓ (ft.)																					
4	Ⓐ Req'd bottom of Slab Elevation	373.44	373.64	373.82	374.00	374.18	374.34	374.51	374.66	374.81	374.95	375.09	375.23	375.36	375.48	375.60	375.71	375.82	375.91	376.00	376.09	376.16
	Ⓑ Top of Steel Elevation (Field Meas.)																					
	Ⓒ = Ⓐ - Ⓑ																					
	Ⓓ Concrete + S.D.L. Deflection		.058	.103	.133	.141	.130	.102	.067	.029	.005		.019	.058	.109	.157	.189	.199	.183	.140	.076	
	Ⓔ Depth of Haunch req'd = Ⓒ + Ⓓ (ft.)																					
5	Ⓐ Req'd bottom of Slab Elevation	372.94	373.14	373.32	373.50	373.68	373.85	374.01	374.17	374.32	374.46	374.60	374.74	374.87	374.99	375.11	375.22	375.33	375.43	375.52	375.60	375.67
	Ⓑ Top of Steel Elevation (Field Meas.)																					
	Ⓒ = Ⓐ - Ⓑ																					
	Ⓓ Concrete + S.D.L. Deflection		.058	.103	.133	.141	.130	.102	.067	.029	.005		.019	.058	.109	.157	.189	.199	.183	.140	.076	
	Ⓔ Depth of Haunch req'd = Ⓒ + Ⓓ (ft.)																					
6	Ⓐ Req'd bottom of Slab Elevation	372.44	372.63	372.82	373.00	373.18	373.35	373.51	373.67	373.82	373.97	374.11	374.25	374.38	374.51	374.62	374.74	374.84	374.94	375.03	375.11	375.17
	Ⓑ Top of Steel Elevation (Field Meas.)																					
	Ⓒ = Ⓐ - Ⓑ																					
	Ⓓ Concrete + S.D.L. Deflection		.058	.103	.133	.141	.130	.102	.067	.029	.005		.019	.058	.109	.157	.189	.199	.183	.140	.076	
	Ⓔ Depht of Haunch req'd = Ⓒ + Ⓓ (ft.)																					
7	Ⓐ Req'd bottom of Slab Elevation	[illegible]	[illegible]	372.32	372.50	372.68	372.85	373.02	373.18	373.33	373.47	373.61	373.75	373.89	374.02	374.13	374.25	374.35	374.45	374.54	374.63	374.70
	Ⓑ Top of Steel Elevation (Field Meas.)																					
	Ⓒ = Ⓐ - Ⓑ																					
	Ⓓ Concrete + S.D.L. Deflection		.058	.103	.133	.141	.130	.102	.067	.029	.005		.019	.058	.109	.157	.189	.199	.183	.140	.076	
	Ⓔ Depth of Haunch req'd = Ⓒ + Ⓓ (ft.)																					

Note: When calculating the depth of haunch Ⓔ, the algebraic value of Ⓒ must be used.

GIRDERS 1 THRU 7 — CAMBER TABLE	℄ BRGS WEST ABUT.	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	℄ BRGS PIER	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	℄ BRGS EAST ABUT.
(I) Steel D. L. (ft.)	0	.008	.014	.013	.019	.018	.013	.008	.003	.000	.000	.003	.010	.018	.025	.031	.032	.029	.022	.012	.000
(II) Concrete D. L. (ft.)	0	.047	.084	.108	.114	.104	.081	.053	.022	.004	.000	.015	.046	.087	.126	.153	.162	.149	.114	.062	.000
(III) Superimposed D.L. (ft.)	0	.011	.019	.025	.027	.026	.021	.014	.007	.001	.000	.004	.012	.022	.031	.036	.037	.034	.026	.014	.000
(IV) Total 1 = I + II + III (ft)	0	.066	.117	.151	.160	.148	.115	.075	.032	.005	.000	.022	.078	.127	.182	.220	.231	.212	.162	.088	.000
Vertical Curve	0	.068	.116	.164	.212	.240	.278	.296	.314	.321	.329	.330	.320	.300	.280	.250	.220	.170	.120	.070	0
Total 2		.134	.233	.315	.372	.388	.393	.371	.346	.326	.329	.352	.398	.427	.462	.470	.451	.382	.282	.158	0

MOMENT AND SHEAR TABLE		℄ BRGS WEST ABUT.	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	℄ BRGS PIERS	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	℄ BRGS EAST ABUT.
D. L.	MOMENT	0	455	755	900	888	720	-396	-84	-721	-1520	-2491	-1431	-561	129	641	978	1136	1118	923	549	0
	SHEAR	52.9	37.5	22.0	6.5	-8.9	-24.4	-39.8	-55.3	-70.9	-87.4	104.8 / 108.2	89.9	72.9	56.2	39.7	23.1	6.5	-10.0	-26.6	-43.2	-59.6
S.D.L.	MOMENT	0	122	206	251	256	223	151	39	-111	-300	-528	-279	-73	89	208	282	313	301	244	144	0
	SHEAR	14.1	10.2	6.3	2.5	-1.4	-5.2	-9.1	-12.9	-16.8	-20.7	24.5 / 24.5	21.3	17.2	13.1	9.0	4.9	0.9	-3.2	-7.3	-11.4	-15.5
L.L. (+)	MOMENT	0	642	1087	1346	1462	1440	1292	1010	627	238	0	242	666	1079	1379	1537	1560	1436	1157	682	0
	SHEAR	73.4	64.1	54.8	45.6	36.9	27.9	19.7	12.2	6.5	2.6	0.0 / 77.9	73.0	66.7	59.3	51.0	42.1	32.7	22.5	14.0	8.7	7.3
L.L. (−)	MOMENT	0	-77	-155	-232	-309	-386	-464	-541	-618	-776	-1315	-731	-584	-511	-438	-365	-292	-219	-146	-73	0
	SHEAR	-8.2	-9.5	-14.8	-21.9	-32.3	-41.6	-50.7	-59.1	-66.5	-72.8	77.9 / 0.0	-2.6	-6.4	-12.4	-20.0	-28.3	-36.9	-45.9	-55.1	-64.3	-73.6



CAMBER DIAGRAM
Horiz. Scale: 1" = 30'-0"
Vert. Scale: 5" = 1'-0"

After all superstructure beams have been erected, elevations shall be taken on the top of the beam at the centerline of web at each centerline of bearing, center of the span and of other locations where theoretical bottom of slab elevations are indicated on the plans.

The depth of haunch required to position the slab forms is obtained as follows: From the listed bottom of slab elevations subtract the measured top of beam elevations. Add this result to the deflections due to slab and superimposed dead load.

The contractor shall place the concrete deck slab for this structure in conformance with the pour sequence shown on the plans.

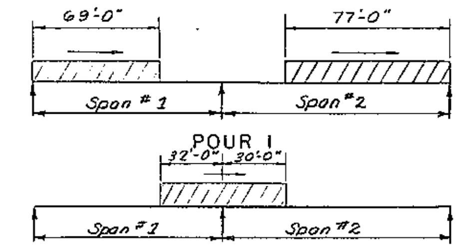
Construction joints shall be placed parallel to the skew angle and the concrete shall be placed so that the leading edge is parallel to the skew angle as near as possible.

Pour 1 contains two portions, one in each span. Both portions shall be poured in a manner such that no initial set will take place in either pour before all of the concrete in both pours (Pour 1) is placed. This may be accomplished by using appropriate amounts of retarder or by using two screed machines if the contractor so elects.

Pour 2 will not be allowed until 72 hours after completion of Pour 1.

If the contractor elects to use a different pour sequence from that shown on the plans, he must obtain written approval from the Deputy Chief Engineer (Structures) prior to setting any deck forms.

The Deputy Chief Engineer (Structures) will determine whether or not adjustment will be required for the haunch data.



POURING SEQUENCE
No Scale

POUR QUANTITY	
POUR 1	POUR 2
10325 SF	4340 S.F.

	DESIGN LOAD TABLE / GIRDER	
	UNIT	LOAD/FT
D. L.	Slab	1.10 K/FT.
	Haunch	0.056 K/FT.
	Girder	0.233 K/FT.
	S.I.P. Forms	0.165 K/FT.
	Diaphragms	0.02 K/FT.
	Utilities	0.012 K/FT.
	Total	1.586 K/FT.
S.D.L.	Safety walk	0.033 K/FT.
	Railing	0.014 K/FT.
	Future W.S.	0.192 K/FT.
	Future Parapet	0.143 K/FT.
	Total	0.382 K/FT.

Assumed Live Load (HS 20-44)

Camber Notes

D. L. I - denotes the amount of camber needed to offset the deflection due to the weight of the steel including diaphragms.

D.L. II - denotes the amount of camber needed to offset the deflection due to the weight of the concrete slab poured under pours 1 and 2.

D.L. III - denotes the amount of camber needed to offset the deflection due to the weight of the sidewalk overlays and the future wearing surface.

Total IV - is the camber due to D.L. I, D.L. II and D.L. III and is the distance from the Web Fully Deflected to the Web fully Cambered.

Total Camber is to be measured during fabrication with the stringer lying on its side.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

ROUTE 7 BRIDGE OVER NEW YORK STATE THRUWAY

TABLES

PROJ. ENG. [signature] | DATE MADE
SQUAD C. A. Blowman | DRAWING NO. 18 OF 27

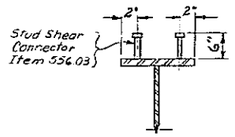
DESIGNED BY ____ DESIGN CHECKED BY ____ DETAILED BY J. Durant DETAIL CHECKED BY E. ____

D96243

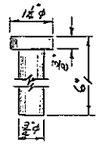
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	231	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

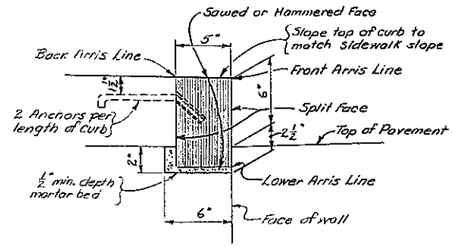
CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75



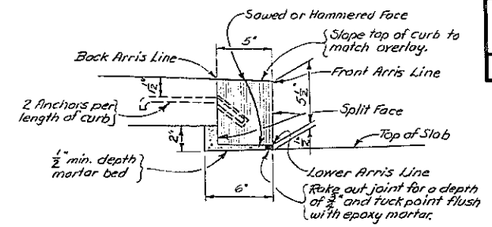
STUD SHEAR CONNECTOR DETAIL
Not to Scale



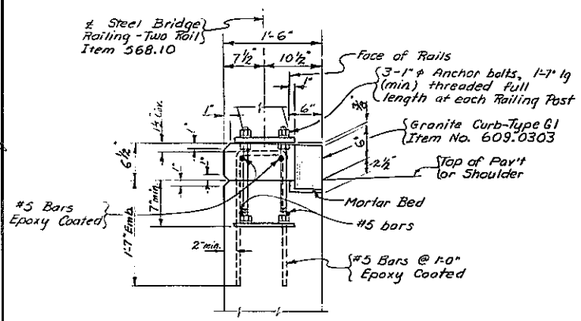
DETAIL OF STUD
Not to Scale



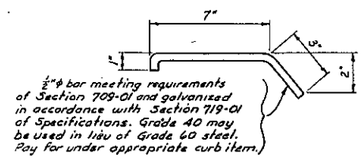
ITEM 609.0303
DETAIL OF GRANITE CURB - TYPE G1
Not to Scale



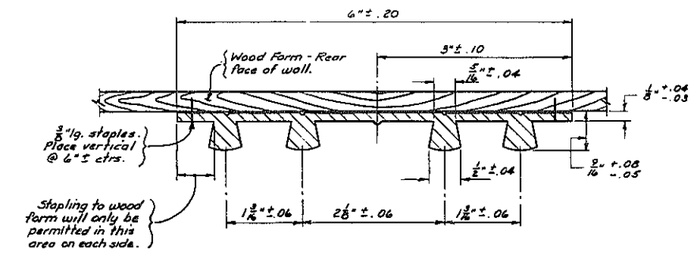
ITEM 609.0302
DETAIL OF GRANITE CURB-TYPE F1
Not to Scale



TOP OF WALL DETAIL
Scale: 1" = 1'-0"



DETAIL OF ANCHOR BAR
Not to Scale



TYPE "D" WATERSTOP

Waterstops shall conform to the requirements of Section 705-11 of the Specifications.

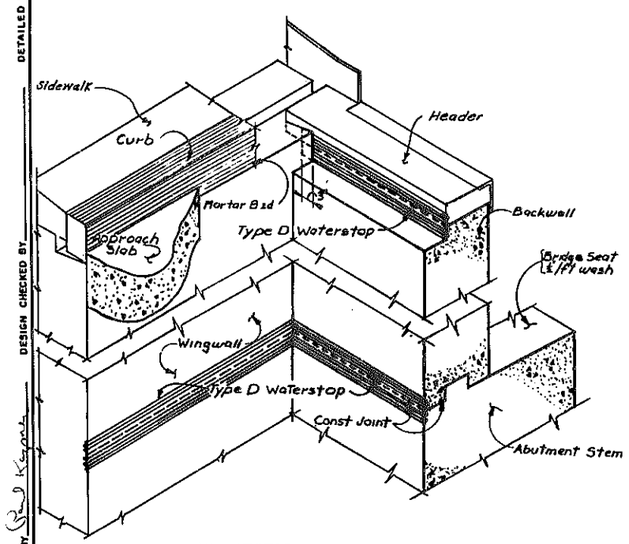
Holes must not be made in waterstop for any purpose except as required for stapling to forms.

Type "D" Waterstop shall be light gray in color.

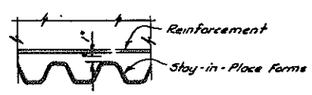
The cost of furnishing and placing waterstops shall be included in the unit price bid for the concrete items.

NOTE:
To facilitate shipping and handling of P.V.C. Waterstops, field butt splices will be permitted on straight runs of points approved by the Engineer. Shop splices shall be used at locations shown on the Contract Plans. The method and equipment used to make the field splices must be approved by the Deputy Chief Engineer (Structures)

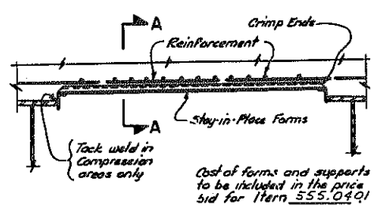
TYPE "D" WATERSTOP
Full Scale



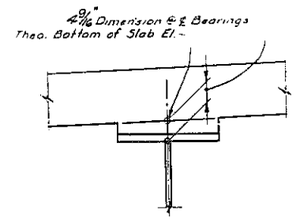
WATERSTOP LOCATION DETAILS
No Scale



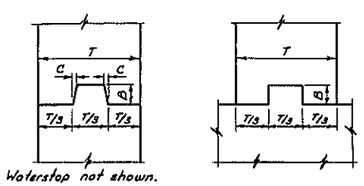
SECTION A-A
Not to Scale



DETAILS OF STAY-IN-PLACE FORMS
Not to Scale



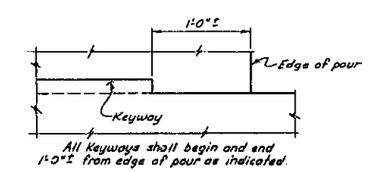
GIRDER HAUNCH DETAIL
Not to Scale



Waterstop not shown.

VERTICAL

HORIZONTAL



KEYWAY LOCATION

CONSTRUCTION & CONTRACTION JOINTS		
C	B	T/3
¼"	1½"	to 6"
½"	3½"	6" to 10"
¾"	5½"	over 10"

KEYWAY DETAILS
Not to Scale

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY

MISC. ABUT. DETAILS

PROJ. ENG. [illegible] | DATE MADE
SQUAD [illegible] | DRAWING NO. 19 OF 27

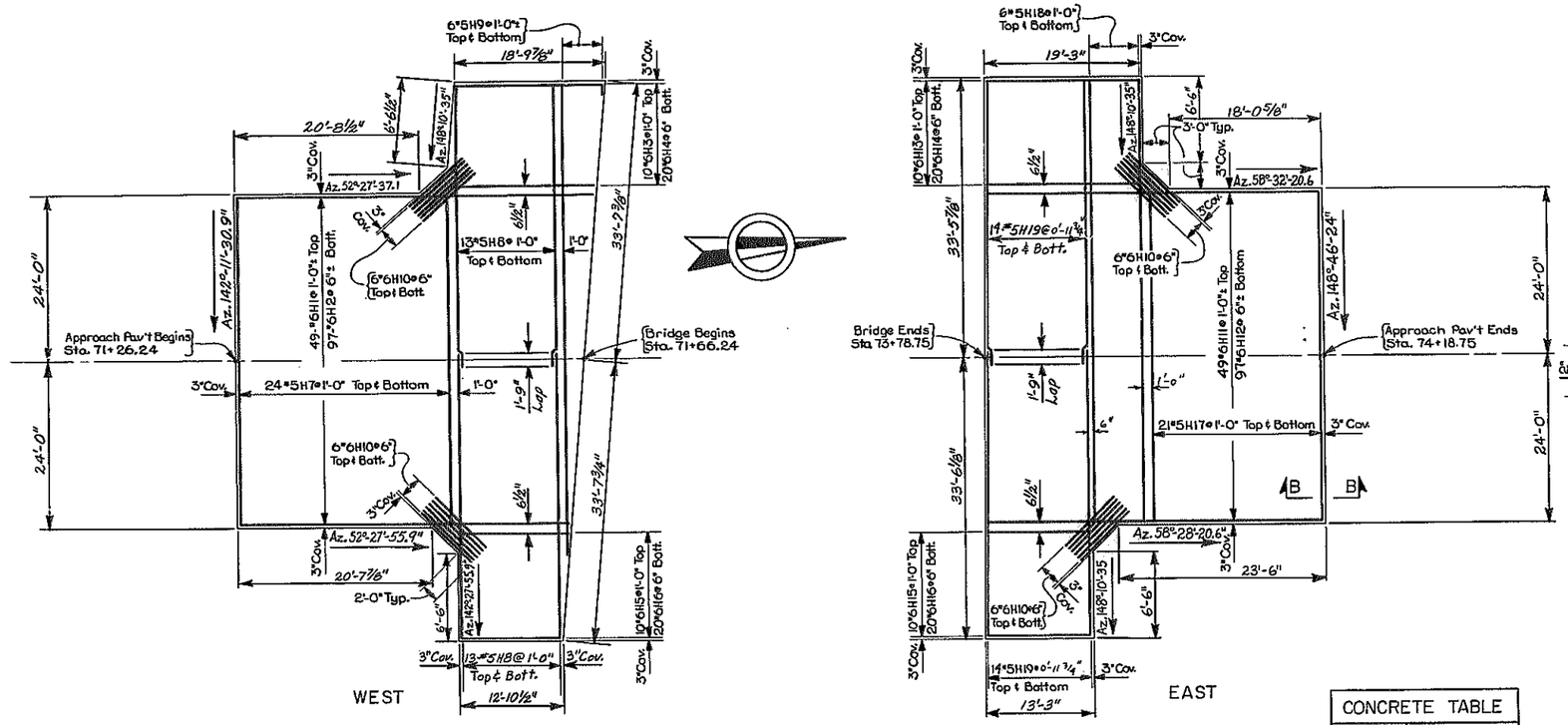
DESIGNED BY [illegible] DESIGN CHECKED BY [illegible] DETAILED BY J. Dassenoit DETAIL CHECKED BY [illegible] 12-12-2006

D96243

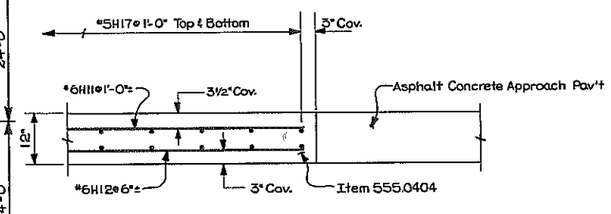
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	232	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75



APPROACH SLAB REINFORCEMENT PLAN
Scale: 1/8" = 1'-0"



SECTION B-B
Scale: 3/4" = 1'-0"

CONCRETE TABLE	
APPROACH SLAB	ITEM 555.0404
West	2225.4 S.F.
East	2228.6 S.F.

DESIGNED BY Paul Kopra DESIGN CHECKED BY ____ DETAILED BY J. F. Darcy DETAIL CHECKED BY C. J. B.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
APPROACH SLABS

PROJ. ENG. H. Jackson | DATE MADE
SQUAD C. J. B. Lavallee | DRAWING NO. 20 OF 27

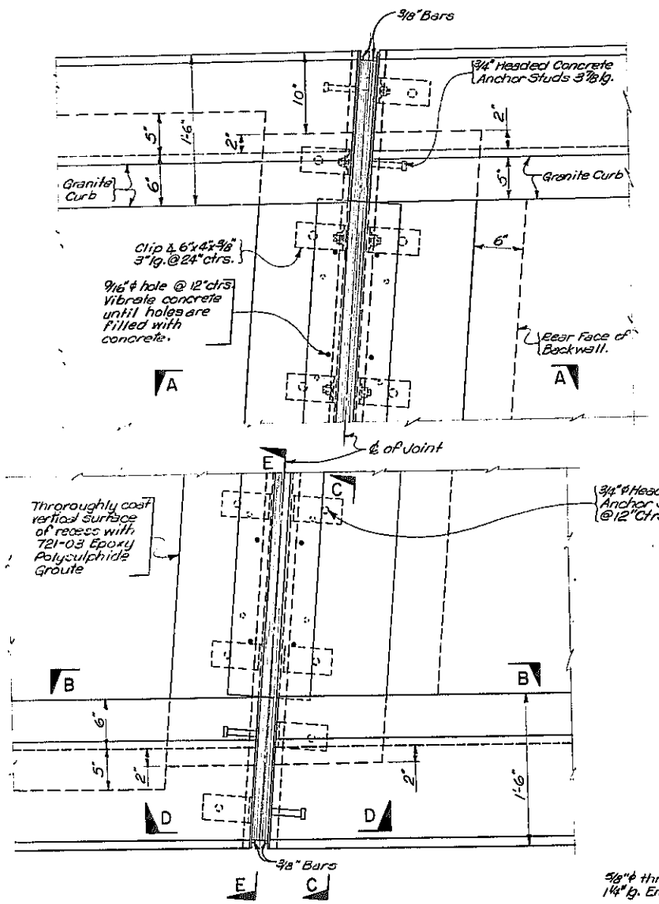
DD 178 11-78

D96243

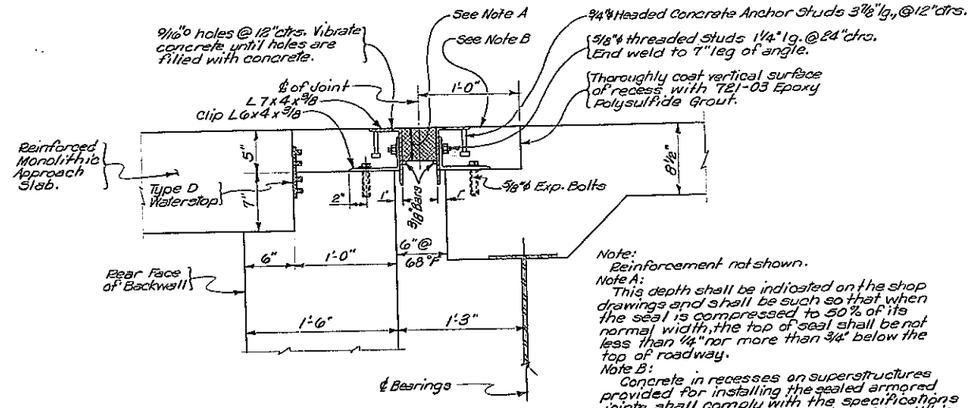
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	233 R1	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - GUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75

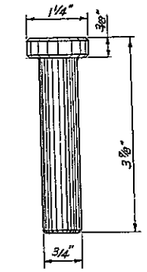


PLAN OF JOINT
Scale: 1 1/2" = 1'-0"

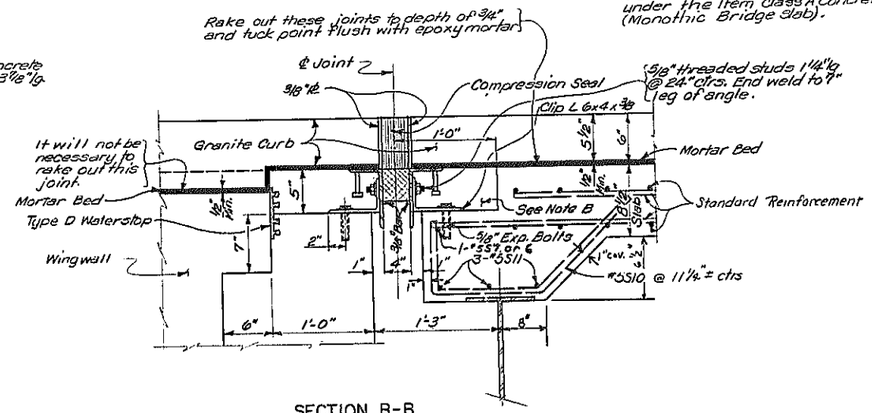


SECTION A-A
Scale: 1 1/2" = 1'-0"

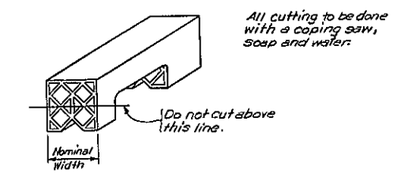
Note:
Reinforcement not shown.
Note A:
This depth shall be indicated on the shop drawings and shall be such so that when the seal is compressed to 50% of its normal width, the top of seal shall be not less than 1/8" nor more than 3/4" below the top of roadway.
Note B:
Concrete in recesses on superstructures provided for installing the sealed armored joints shall comply with the specifications for Class A Concrete for Structures (Monolithic Bridge Slabs) except that machine finishing will not be required. No additional payment will be made for furnishing and placing this concrete as this quantity lies within the limits of the area to be paid for under the Item Class A Concrete for Structures (Monolithic Bridge Slab).



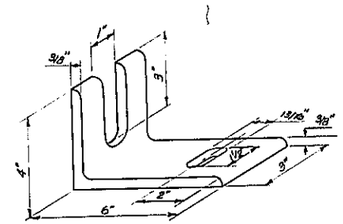
DETAIL OF HEADED CONCRETE ANCHOR STUD
Scale: 3/4" = 1'-0"



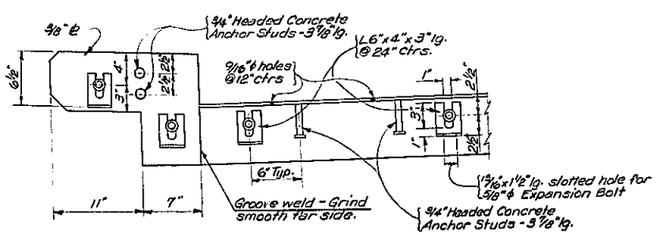
SECTION B-B
Scale: 1 1/2" = 1'-0"



CUTTING SEAL LIMITS
No Scale

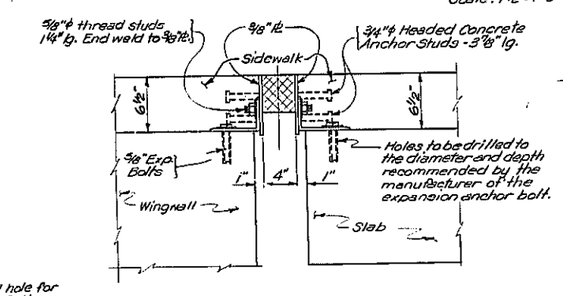


DETAIL OF CLIP ANGLE
Scale: 3/8" = 1'-0"

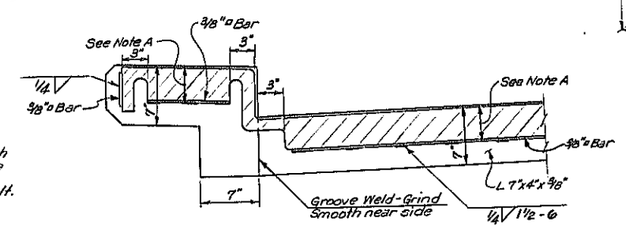


SECTION C-C
Scale: 1 1/2" = 1'-0"

NOTE: CUT 3/8" ℄ TO FIT AROUND 2" ϕ CONDUIT



SECTION D-D
Scale: 1 1/2" = 1'-0"



SECTION E-E
Scale: 1 1/2" = 1'-0"

NOTE: MECHANICAL ANCHORAGE OF POST CAST HEADER CONSISTING OF DOWELS AND TRANSVERSE BARS CONSTRUCTED AS PER DETAILS ON R.O.C. #10

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
SEALED ARMORED JOINT DETAILS

PROJ. ENG. H. Sanders — DATE MADE
SQUAD C. I. Pomeroy — DRAWING NO. 21 OF 27

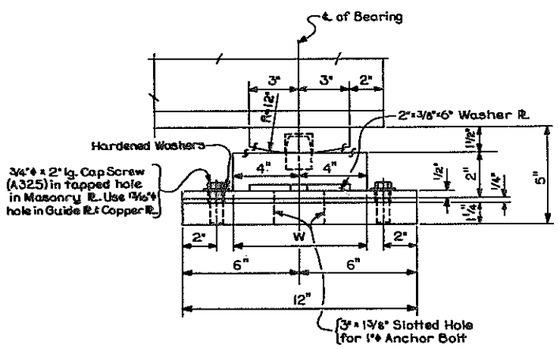
DESIGNED BY Neil Kamla — DESIGN CHECKED BY — DETAILED BY W. Chatter — DETAIL CHECKED BY

D96243

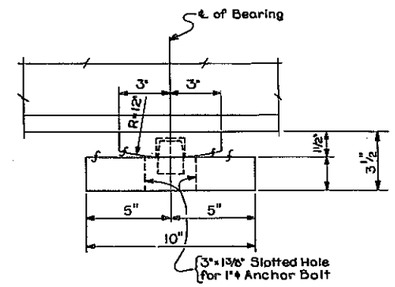
FED. RD. DIST. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	234	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

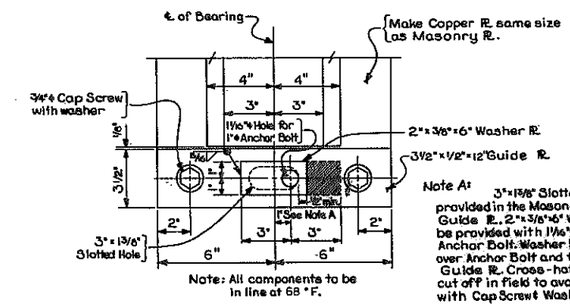
CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-75



SIDE ELEVATION



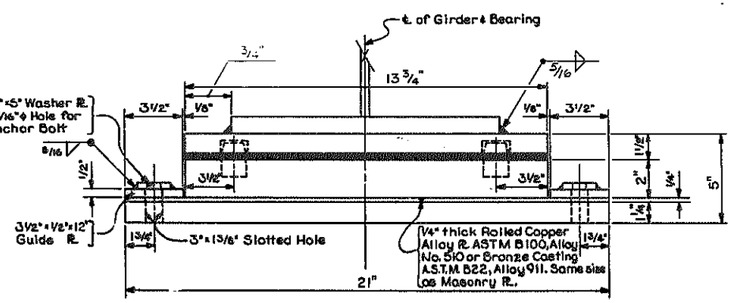
SIDE ELEVATION



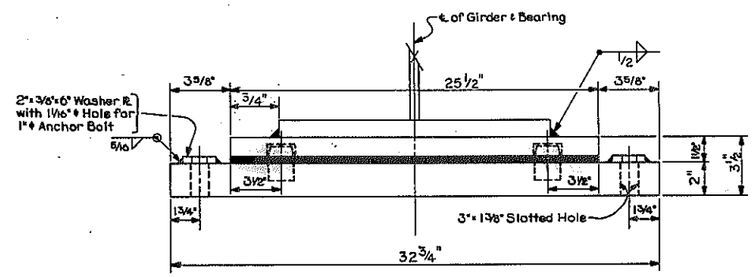
Note: All components to be in line at 68 °F.

Note A: 3"×1 3/8" Slotted Hole is to be provided in the Masonry PL. Copper PL & Guide PL. 2"×3/8"×6" Washer PL shall be provided with 1 1/16"ϕ Hole for 1"ϕ Anchor Bolt. Washer PL shall be placed over Anchor Bolt and field welded to Guide PL. Cross-hatched area to be cut off in field to avoid interference with Cap Screw & Washer when necessary.

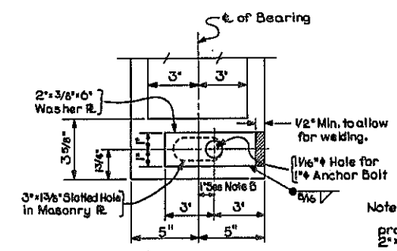
WASHER PLATE ATTACHMENT DETAIL (EXP. BRG.)



END ELEVATION
EXPANSION BEARING

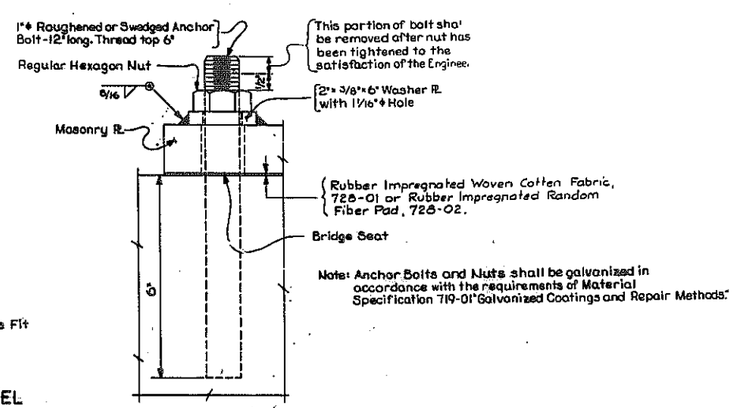


END ELEVATION
FIXED BEARING



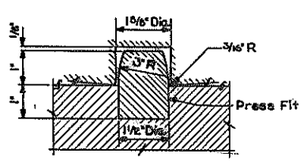
Note B: 3"×1 3/8" Slotted Hole is to be provided in the Masonry PL. The 2"×3/8"×6" Washer PL shall be provided with 1 1/16"ϕ Hole for 1"ϕ Anchor Bolt. Washer PL shall be placed over Anchor Bolt and field welded to Masonry PL. Cross-hatched area to be cut off in field when necessary.

WASHER PLATE ATTACHMENT DETAIL (FIX. BRG.)



Note: Anchor Bolts and Nuts shall be galvanized in accordance with the requirements of Material Specification 719-01 "Galvanized Coatings and Repair Methods."

ANCHOR BOLT DETAIL



TYPICAL SECTION THRU DOWEL

Note:
All material ASTM A588

DATE MADE
PROJECT ENGINEER
IN CHARGE OF
DESIGNED BY
DESIGN CHECKED BY
DETAILED BY
DETAIL CHECKED BY

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY

LOW STEEL BEARINGS
DRAWING NO. 22 OF 27

D96243

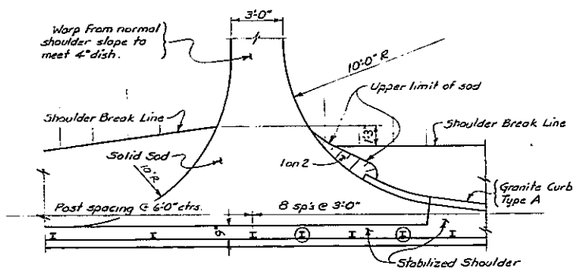
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	235	289

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

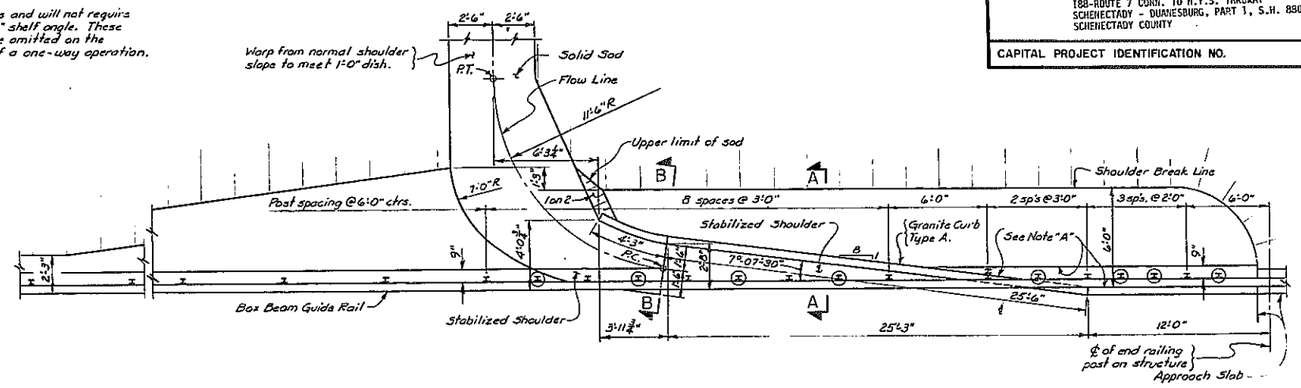
CAPITAL PROJECT IDENTIFICATION NO.

Note:
Except for sod gutter the details of the curb, guide rail and shoulder break lines are identical to those shown for the low end.

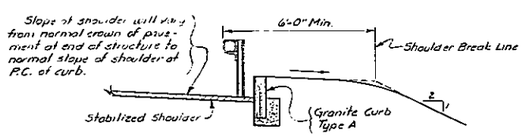
① These are backup posts and will not require use of the 5"×3½"×⅜" shelf angle. These backup posts shall be omitted on the trailing or off end of a one-way operation.



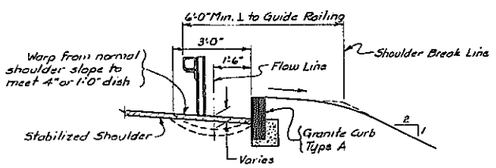
TYPE I SHOULDER – HIGH END
Scale ¼"=1'-0"



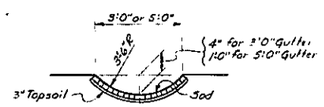
TYPE I SHOULDER – LOW END
Scale ¼"=1'-0"



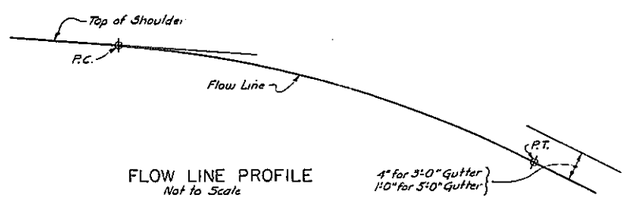
SECTION A-A
Not to Scale



SECTION B-B
Not to Scale



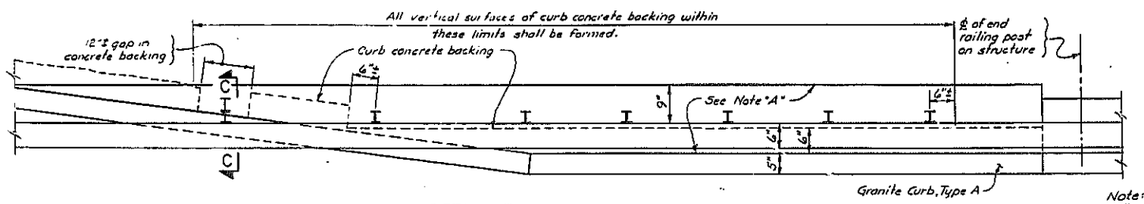
SECTION THRU GUTTER
Scale ¼"=1'-0"



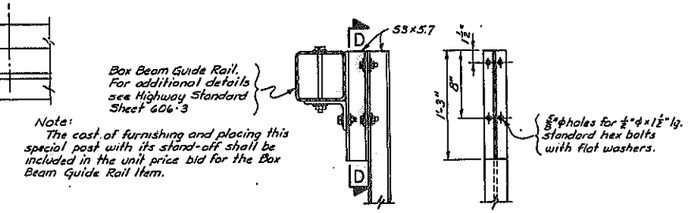
FLOW LINE PROFILE
Not to Scale

Note "A"
Pave this area with the same material as in the stabilized shoulder. Payment will be made under the stabilized shoulder item.

Notes:
For details of Granite Curb, Type A, see Highway Standard Sheet 609-1.



DETAIL OF CURB CONCRETE BACKING
Scale ⅜"=1'-0"



Note:
The cost of furnishing and placing this special post with its stand-off shall be included in the unit price bid for the Box Beam Guide Rail Item.

PARTIAL SECTION C-C
Scale 1½"=1'-0"

SECTION D-D
Scale 1½"=1'-0"

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
TYPE I SHOULDER DETAILS

PROJ. ENG. [illegible] | DATE MADE
SUPVD. [illegible] | DRAWING NO. 23 OF 27

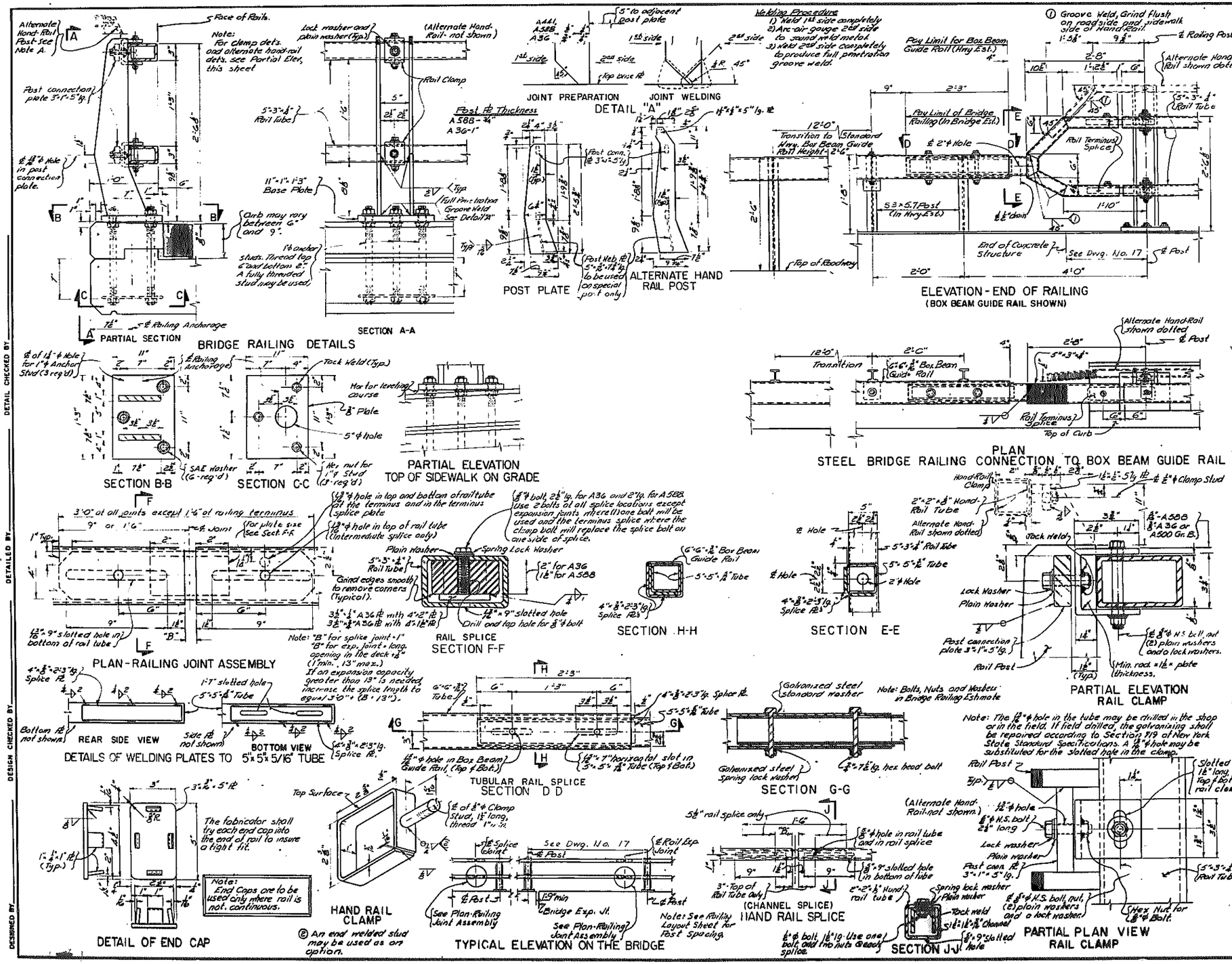
DESIGNED BY
DESIGN CHECKED BY
DETAILED BY Associate Civil Inc.
DETAIL CHECKED BY

D96243

FED RD REG NO	STATE	FEDERAL AID PROJECT NO	SHEET NO	TOTAL SHEETS
	NEW YORK	I-88-2(10)	236	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - CHARLESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITOL PROJECT IDENTIFICATION NO. 1357.04-111-75



NOTES:

All railing is to be fabricated and erected so that the rails are parallel to each other and the posts are truly vertical.

The Base Plates shall be perpendicular to the post unless otherwise noted. When the railing is to be placed on a preformed surface, the Base Plate may be parallel to the grade or may be perpendicular to the post and made level by the use of (1:1 ratio cement to sand, mortar).

Tubular steel rails, rail clamp assemblies, nuts and washers, posts, post webs, if required, post spacers, base plates, railing joint assemblies and any necessary shims and mortar leveling course shall be paid for under the railing item.

Anchor studs, nuts, washers and anchor plates shall be paid for under the railing item.

After the anchor stud nuts have been placed and tightened to the satisfaction of the Engineer, the studs shall be flame cut-off one inch above the nut and the first thread above the nut shall be damaged, as ordered by the Engineer.

Rails shall span a minimum of 3 posts. If this is impossible, the absolute minimum shall be 2 posts with one of these posts being a special post.

Materials used in the manufacture of this railing shall conform to the requirements and/or specifications listed below:

Rail Tubes - ASTM Designation A500, Grade B
Rail Clamps - ASTM Des. A500 Grade B, A36, A588, A441 and A572 Grade 50
Clamp Bolts and Nuts - ASTM Designation A325
Rail Splices - ASTM Designation A36, A588 and A-572, Grade 50
Tubular Rail Splices - ASTM Designation A500, Grade B
Channel Rail Splices - ASTM Designation A36
Splice Plates - ASTM Designation A36
3/4" Post Plates - ASTM Designation A588, A-441 and ASTM A572, Grade 50
1" Post Plates - ASTM Designation A36
Post Connection Plate - ASTM Designation A36 or A.I.S.I. Designation 1020
Base Plates - ASTM Designation A588, A-572, Grade 50
Splice Bolts, Nuts and Washers - ASTM Designation A307
Anchor Studs - ASTM Designation A449
Nuts and Washers for Anchor Studs - ASTM Designation A325
Anchor Plates - ASTM Designation A36
Post Web Plates (if required) - Same as Post Plate Material
Plate Shims - ASTM Designation A36
End Cap - ASTM Designation A36
Galvanized Railing - All components of the railing, including anchor studs, nuts and washers shall be galvanized in accordance with Material Specification 719-01. Anchor Studs shall have a Class 2A thread fit prior to galvanizing. The cut portion of the anchor studs shall be repaired according to Material Specification 719-01.

All bolts shall have a Class 2A thread fit prior to galvanizing.

Grind all edges of Post Plates and Base Plates prior to galvanizing so that all sharp edges are removed.

Railing posts shall be erected to proper line and grade before concrete under post and in back of granite curb is poured unless otherwise indicated on the Contract Plans.

Unless covered by other Specifications, all dimensions related to the fabrication of the steel railing shall have a tolerance of ± 1/16".

If the end of the bolts connecting the clamp to the post connection plate bear against the tube when in the final position, additional plain washers shall be added to prevent the end of the bolt from bearing against the tube.

Other clamp steels may be used with the approval of the Deputy Chief Engineer (Structures).

All high-strength bolts shall be torqued snug tight (approximately 100 ft. lbs.)

The hole for the bolt connecting the tube and the clamp will be located in the tube so that the tube will bear against the post plates when in the final position.

NOTE "A":

The alternate handrail is for use when the traffic railing system is used between pedestrian traffic and vehicular traffic.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
STEEL BRIDGE RAILING-TWO RAIL

PROJ. ENG. | DATE MADE
DRAWN | DRAWING NO. 21 OF 27

DETAILED BY
DESIGN CHECKED BY
DETAIL CHECKED BY
DESIGNED BY

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	237R1	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO.

MARK	SZ	NO	LENGTH	TYP	A	B	C	D	E	F	G	H	J	K	L	R	S	T	WEIGHT	
Bridge		Route 7 Over New York State Thruway																		
East Abutment																				
Footing - Pour 1																				
5A1	5	16	36-4																606	
5A2	5	40	5-10																243	
5A3	5	40	8'-8"	2		0	1-8	4-7	0	2-5	0		0	0		1-1			361	
5A4	5	33	6-3																215	
5A5	5	4	22-7																95	
6A6	6	33	5-5																~~192~~	324
5A7	5	4	16-7																68	
6A8	6	38	4'-6"	1	0-7	3-11					0		0-6						~~162~~	256
Stem Pour 2																				
5A9	5	17	AVE 12'-5"																218	
5A9	5		Length varies From 12-0 to 12-10																	
5A11	5	16	AVE 7'-9"																~~128~~	134
5A11	5		Length varies From 7-4 to 8-2																	
5A13	5	14	31-5																459	
6A15	6	23	13-6																~~321~~	466
5A16	5	10	13-8																142	
5A17	5	15	22-2																346	
8A21	8	5	31-5																419	
5A23	5	21	3-5																75	
5A33	5	15	2-6	9		0	0-6	2-0											38	
Stem - Pour 3																				
5A10	5	23	AVE 11'-2"																~~261~~	267
5A10	5		Length varies From 10-4 to 11-11																	
5A12	5	22	AVE 6'-4"																144	
5A12	5		Length varies From 5-5 to 7-3																	
5A14	5	12	39-10																498	
6A18	6	15	11-2																~~173~~	252
5A19	5	7	11-4																82	
5A20	5	10	16-2																169	
8A22	8	5	39-10																531	
5A23	5	27	3-5																96	
5A33	5	20	2-6	9		0	0-6	2-0											50	
Backwall and Wingwall - Pour 4																				
5A13	5	8	31-5																263	
5A24	5	16	5-0																82	
5A26	5	10	19-11																208	
5AE28	5	29	2-8	9		0	0-8	2-0											~~70~~	81
5AE30	5	21	4-9	9		2-0	0-9	2-0											~~101~~	104
Backwall and Wingwall - Pour 5																				
5A14	5	8	39-10																332	
5A25	5	22	4-11																112	
5A27	5	10	13-11																145	
5AE28	5	40	2-4	9		0	0-6	1-10											97	
5AE30	5	15	4-7	9		1-11	0-9	1-11											72	
Pedestals - Pour 6																				
5A32	5	7	10-2	5	0-6	2-8	1-11					0-6		0-4					74	

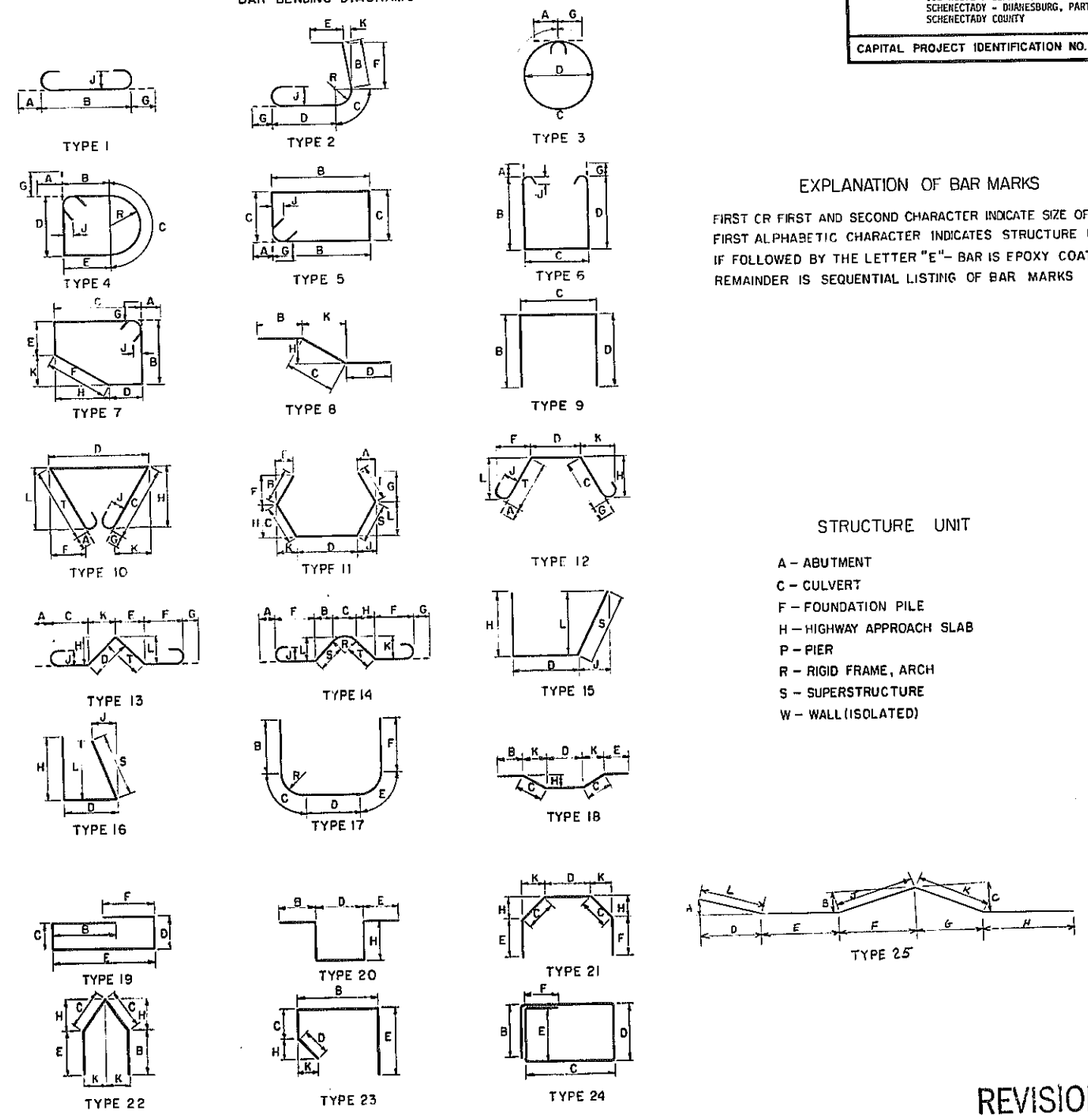
DETAIL CHECKED BY

DETAILED BY

DESIGN CHECKED BY

DESIGNED BY

BAR BENDING DIAGRAMS



BAR BENDING DIAGRAMS

ALL BAR DIMENSIONS OUT TO OUT UNLESS OTHERWISE INDICATED

EXPLANATION OF BAR MARKS

FIRST OR FIRST AND SECOND CHARACTER INDICATE SIZE OF BAR
FIRST ALPHABETIC CHARACTER INDICATES STRUCTURE UNIT
IF FOLLOWED BY THE LETTER "E" - BAR IS EPOXY COATED
REMAINDER IS SEQUENTIAL LISTING OF BAR MARKS

STRUCTURE UNIT

A - ABUTMENT
C - CULVERT
F - FOUNDATION PILE
H - HIGHWAY APPROACH SLAB
P - PIER
R - RIGID FRAME, ARCH
S - SUPERSTRUCTURE
W - WALL (ISOLATED)

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
BAR LIST

PROJ. ENG. R. Jacobson — DATE MADE
SQUAD. — DRAWING NO. 25 OF 27

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	238(2)	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO.

MARK	SZ	NO	LENGTH	TYP	A	B	C	D	E	F	G	H	J	K	L	R	S	T	WEIGHT	
Header - Pour 7																				
SAE29	5	2	34-11																73	
N.E Wingwall - Pour 8																				
SAE31		2	19-11																42	
S.E Wingwall - Pour 9																				
SAE32	5	2	13-11																29	
												Item 556.0202 East Abutment Sub Total							~~484~~	498
												Item 556.0201 East Abutment Sub Total							~~7519~~	7714
West Abutment																				
Footing - Pour 1																				
SA1	5	38	8-8"	2		0	1-8	4-7	0	2-5	0		0	0		1-1			~~363~~	344
SA2	5	36	5-10																219	
SA3	5	34	6-3																222	
SA4	5	8	36-6																306	
SA5	5	8	36-6																306	
SA6		37	4-5	1	0-7	3-10					0		0-6						~~157~~	301
SA7		37	5-5																~~209~~	301
SA8		4	16-7																69	
SA9	5	4	21-7																90	
Stem - Pour 2																				
SA10	5	22	Length varies from 10-4 to 11-10																~~268~~	254
SA16	5	14	42-0																~~530~~	613
																			~~39~~	
																			~~47~~	
SA19	5	21	Length varies from 5-8 to 7-4																145	
SA24	5	20	3-5																71	
SA28	5	12	15-8																~~171~~	196
SA29	6	15	10-10																~~189~~	244
SA30	5	6	11-0																69	
SA31	5	1	5-9																6	
SA22	-	5	42-2																~~568~~	563
SA14	-	20	2-9	9		0	6	2-3											57	
Stem - Pour 3																				
SA11	5	11	AVE 12-6																	
SA11			Length varies from 11-10 to 13-1																144	
SA12	5	5	13-0																~~35~~	68
SA15	5	12	29-9																~~436~~	465
SA20	5	10	AVE 8-6 Length varies from 7-4 to 8-7																84	
[illegible]		6	8-6																~~53~~	
[illegible]																			53	
SA25	5	22	13-3																~~306~~	452
SA26	5	9	13-6																127	
SA27	5	16	21-8																362	
SA32	5	1	8-6																9	
SA23	5	5	29-9																397	
SA14	5	15	2-9	9		0	0-6	2-3											43	
Backwall and Wingwall Pour-4																				
SA28	5	11	13-5																155	
SAE33	5	13	4-11	9		2-1	0-9	2-1											67	
SA36	5	10	42-0																~~442~~	438
SA38	5	20	4-11																~~108~~	103
SAE39	5	13	2-8	9		0	0-8	2-0											~~50~~	53

MARK	SZ	NO	LENGTH	TYP	A	B	C	D	E	F	G	H	J	K	L	R	S	T	WEIGHT	
Backwall & Wingwall Pour-5																				
SA27	5	10	19-4																201	
SAE33	5	19	4-9	9		2-0	0-9	2-0											94	
SA37	5	10	29-9																310	
SA38	5	15	4-11																~~54~~	77
SAE39	5	15	2-8	9		0	0-8	2-0											~~40~~	124
																			~~57~~	
Header - Pour-6																				
SAE40	5	2	35-0																73	
Pedestals Pour 7																				
SA13	5	7	10-2	5	0-6	2-8	1-11				0-6		0-4						74	
SW Wingwall Pour-8																				
SAE34	5	2	13-5																28	
N.W Wingwall Pour-9																				
SA 35	5	2	19-5																41	
												Item 556.0202 West Abutment Sub Total							~~393~~	396
												Item 556.0201 West Abutment Sub Total							~~7502~~	7939
Pier																				
Footing Pour-1																				
11P1	11	16	34-3																~~2862~~	2911
11P2	11	7	33-8																1252	
8P3	8	108	9-6	1	0	8-7					0-11		0-8						~~2464~~	2739
11P4	11	8	24-5																1038	
11P5	11	14	19-0																1413	
11P6	11	8	44-0																~~1725~~	1870
9P7	9	36	10-6																1285	
5P8	5	33	10-6																361	
Column Pour-2																				
4P9	4	34		5	0-5	Varies	2-8				0-5		0-3							
4P9		AVE 15-1				B Varies from 4-1 to 4-10 (2 sets of 17)													341	
4P10	4	32		5	0-5	Varies	2-8				0-5		0-3							
4P10		AVE 15-1				B Varies from 4-1 to 4-10 (2 sets of 16)													321	
4P11	4	30		5	0-5	Varies	2-8				0-5		0-3							
4P11		AVE 15-1				B Varies from 4-1 to 4-10 (2 sets of 15)													301	
8P12	8	36	21-10																2098	
8P13	8	36	20-11																2011	
8P14	8	36	20-0																1922	
Cap Beam Pour 3																				
10P15	10	8	25-11	1	1'-5	24-6					0		1'-1"						892	
10P16	10	8	48-3	1	1-5	46-10					0		1'-1"						1661	
10P17	10	16	14-10																1021	
5P18	5	50	2-8																139	
10P19	10	4	9-3																159	
10P20	10	16	35-2																~~2456~~	2421
6P21	6	6	34-1	2.5	1-4	0-8	1-4	7-3	6-6	7-11	7-11	4-3	8-0	8-0	7-4				~~619~~	307
5P22	5	12	34-3																430	
5P23	5	6	6-2	9		1-9	2-8	1-9											39	
5P24	5	68		5	0-6	1-11	Varies				0-6		0-4							
5P24			AVE 14-2				C Varies from 4-2 to 5-2 (4 sets of 19)												1005	
6P22	6	6	34-1	2.5	0-8	1-3	0-8	7-3	6-6	7-11	7-11	4-3	8-1	8-0	7-3				307	

DETAILED BY

DESIGN CHECKED BY

DETAIL CHECKED BY

DESIGNED BY

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
BAR LIST

PROJ. ENG. [illegible] | DATE MADE
SQUAD [illegible] | DRAWING NO. 26 OF 27

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	239R1	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO.

MARK	SZ	NO	LENGTH	TYP	A	B	C	D	E	F	G	H	J	K	L	R	S	T	WEIGHT	
Pier -cont																				
Cap Beam		Pour-3																		
SP25	5	96		5	0-6	2-0	Varies				0-6		0-4						~~1461~~	1435
SP25			AVE 14-4				C Varies From 4-2 to 5-2 (8 sets of 12)													
SP26	5	56	2-11	9		2-5	0-6	0											17	
Pedestals		Pour-4																		
SP27	5	11	13-8	5	0-6	3-8	2-8				0-6		0-4						~~139~~	157
												Item 556.0201 Pier Sub Total							~~29572~~	30,007
Superstructure		Slab																		
SSE1	5	155	57-6																9176	
SSE2	5	102	21-3									(3 Sets of 51)							~~2243~~	2261
SSE3	5	455	53-5																25351	
SSE4	5	910	10-7	1	0-7	10-0					0		0-5	(2 sets of 455)					~~7966~~	10045
6SE5	6	72	40-0																4326	
SS7	5	458	25-5																~~12169~~	12142
SS8	5	222	57-6									(3 sets of 74)							13314	
SS9	5	148	22-0																~~3370~~	3396
SS10	5	120	3-2	15				1-4				0-8	0-10		0-10		1-2		~~385~~	396
SS11	5	36	9-0																338	
SS12	5	4	5-5																23	
SSE15	5	420	4-3	20		0		0-8	1-7			1-0							~~1844~~	1862
6SE13	6	72	28-0																3028	
SS6	5	458	46-4																22022	
Sidewalk																				
SCE1	5	16	53-3																894	
												Item 556.0202 Superstructure Sub Total							~~56828~~	57024
												Item 556.0201 Superstructure Sub Total							~~51590~~	51741
Night Support																				
SSE17	5	11	3-4	1	0-7	2-9					0								38	
SSE18	5	4	10-4	21			2-7	2-10	1-9	1-9		1-2		2-4					43	
Approach Slabs																				
East Approach Slab																				
6H11	6	49	39-8																~~3931~~	2917
6H12	6	97	39-8																~~5863~~	5779
6H13	6	10	18-9																282	
6H14	6	20	18-9																563	
6H15	6	10	12-9																192	
6H16	6	20	12-9																383	
5H17	5	42	47-6																2081	
5H18	5	12	57-0																~~932~~	713
5H19	5	10	34-2																~~927~~	1996
6H10	6	24	8-3																297	
West Approach Slab																				
6H1	6	49																		
6H1			AVE 39-6		Varies From 36-11 to 42-0														~~2720~~	2907
6H2	6	97																		
6H2			AVE 39-6		Varies From 36-11 to 42-0														~~5385~~	5755
6H3	6	10	18-4																275	
6H4	6	20	18-4																551	

MARK	SZ	NO	LENGTH	TYP	A	B	C	D	E	F	G	H	J	K	L	R	S	T	WEIGHT	
6H5	6	10																		
6H5			AVE 12-10		Varies From 12-5 to 13-3														194	
6H6	6	20																	388	
6H6			AVE 12-10		Varies From 12-6 to 13-3														~~2375~~	2353
5H7	5	48	47-6																1853	
5H8	5	52	34-2																	
5H9	5	12																		
5H9			AVE 28-5		Varies From 1'-2" to 55-8 (2 sets of 6)														~~392~~	356
6H10	6	24	8-3																297	
												Item 556.0201 Approach Slabs Sub Total							~~28714~~	30,134
												Item 556.0201 Total							~~124,661~~	127,674
												Item 556.0202 Total							~~57,785~~	58,002

DETAILED BY _____

DESIGN CHECKED BY _____

DETAIL CHECKED BY _____

DESIGNED BY _____

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

ROUTE 7 BRIDGE OVER
NEW YORK STATE THRUWAY
BAR LIST

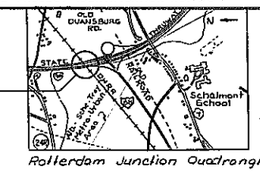
PROJ. ENG. _____ DATE MADE _____
SQUAD C 1 _____ DRAWING NO. 27 OF 27

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	240	284

INTERSTATE ROUTE 508
RT. 7 TO 190 INTERCHANGE
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-74

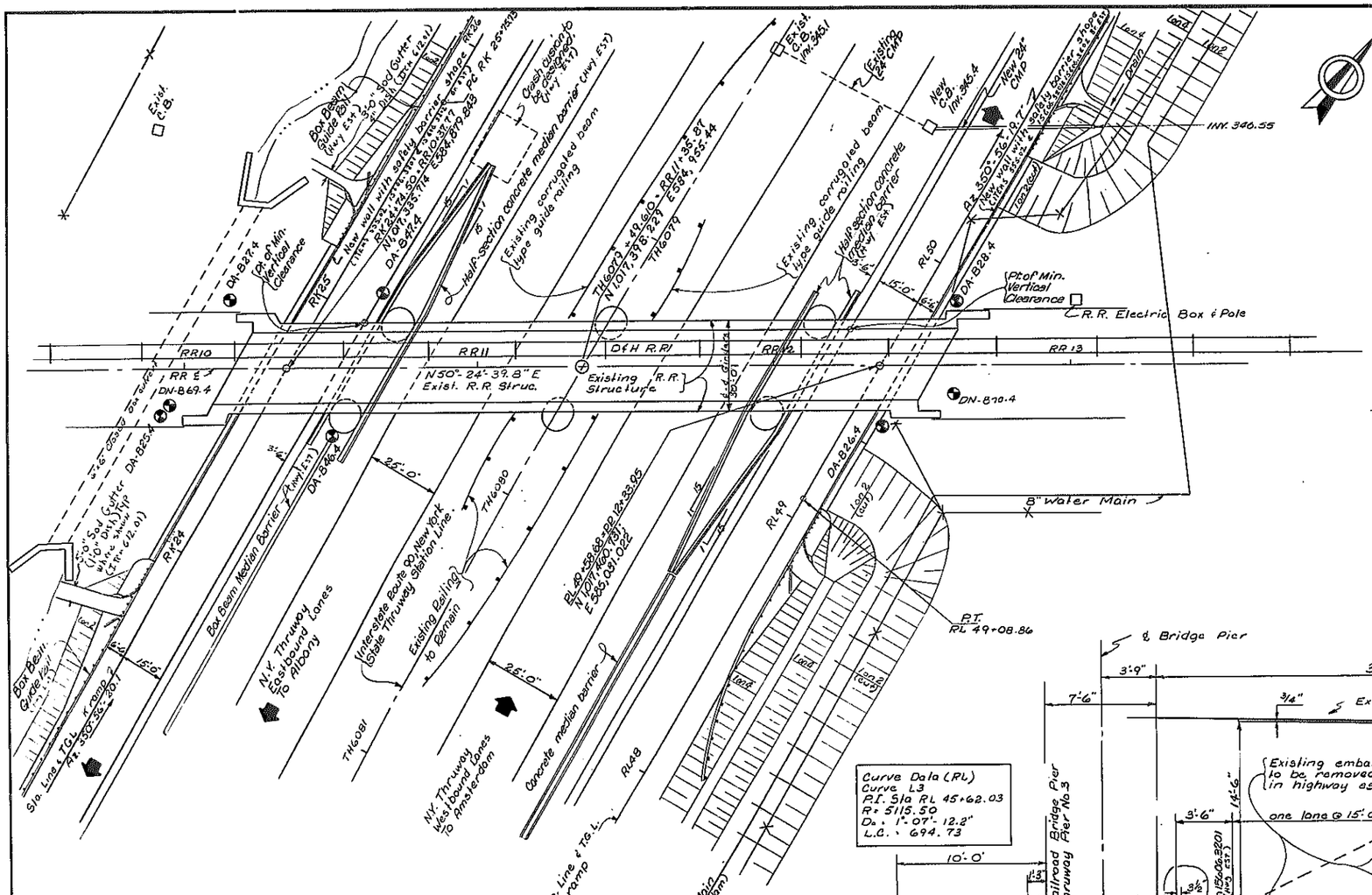


LOCATION MAP

INDEX

SHEET	TITLE
1	Plan and Elevation
2	Wall Profile
3	Estimate of Quantities and General Notes
4	Subsurface Profile
5	Sheeting Details
6	West Wall
7	West Wall
8	East Wall
9	East Wall
10	Concrete Barrier Transition
11	Concrete Barrier Transition
12	Concrete Barrier Transition

PRELIMINARY PLAN RECOMMENDED BY B. J. Massimilian



DATE MADE
PROJECT ENGINEER
IN CHARGE OF
DESIGNED BY
DESIGN CHECKED BY
DETAILED BY
DETAIL CHECKED BY

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

I-88 TO I-90 INTERCHANGE
RAMPS K AND L
UNDER DHRR BRIDGE

PLAN AND ELEVATION

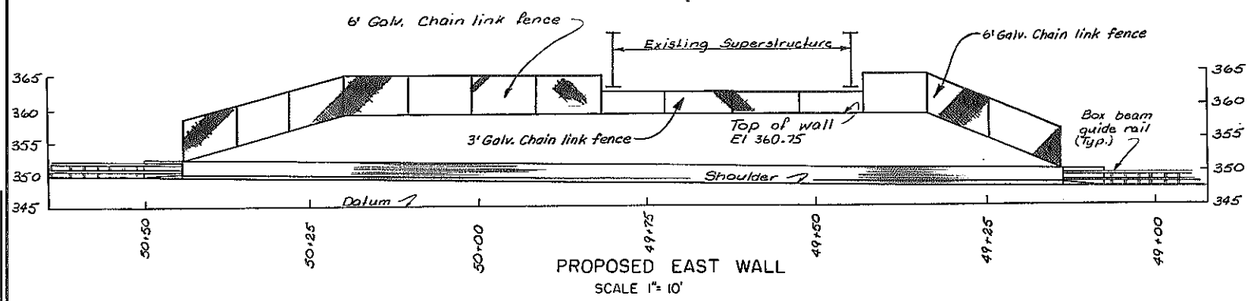
DRAWING NO. 1 OF 12

D96243

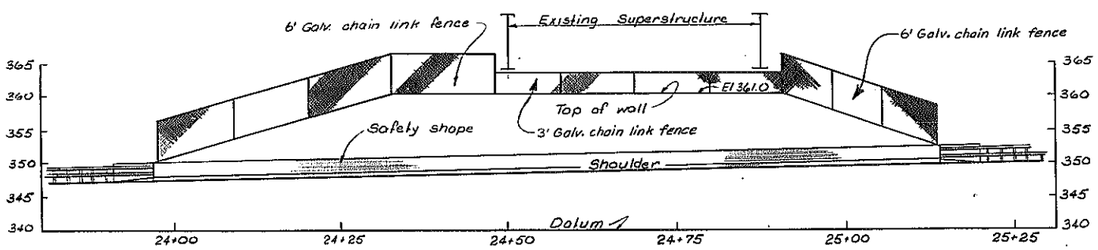
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	241	284

INTERSTATE ROUTE 508
RT. 7 TO 190 INTERCHANGE
SCHENECTADY COUNTY

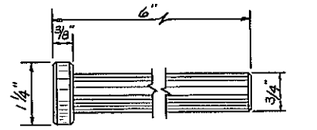
CAPITAL PROJECT IDENTIFICATION NO.



PROPOSED EAST WALL
SCALE 1" = 10'

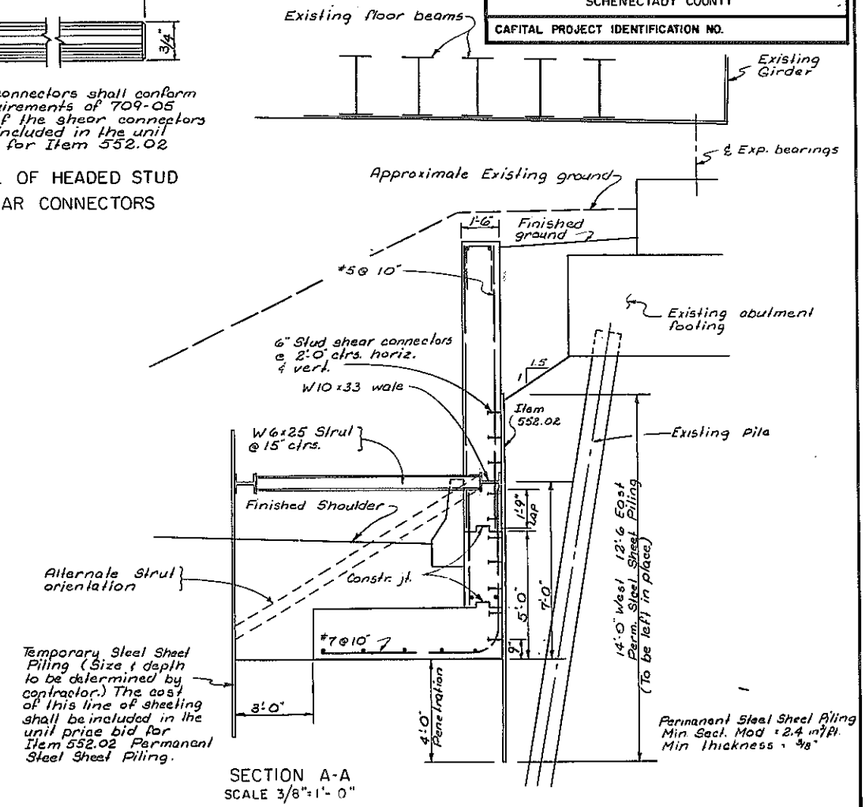


PROPOSED WEST WALL
SCALE 1" = 10'

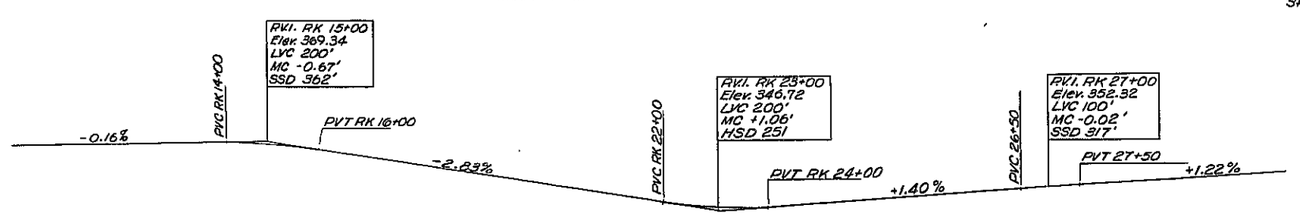


Stud shear connectors shall conform to the requirements of 709-05. The cost of the shear connectors shall be included in the unit price bid for Item 552.02

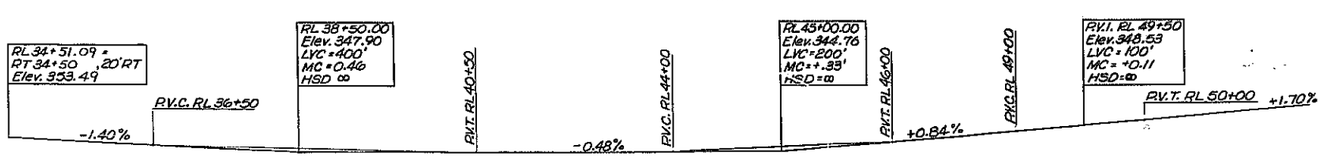
DETAIL OF HEADED STUD SHEAR CONNECTORS



SECTION A-A
SCALE 3/8" = 1'-0"



RAMP K PROFILE
Not to Scale



RAMP L PROFILE
Not to Scale

Permanent Steel Sheet Piling Installation Notes

The Contractor's attention is directed to the limited headroom that exists under the railroad structure in the vicinity of the new retaining walls.

During the sheeting installation operations the Contractor will not be allowed to disturb the foundation materials directly beneath the existing abutment footing. The existing ground may be excavated to the bottom of the footing and to a line extending from the front edge of the bottom of the footing at a 1 on 1 1/2 slope as shown in Section A-A on this sheet. Permanent steel sheet piling must be installed before the excavation can be progressed any further.

Due to the limited headroom it may be necessary to splice the sheeting components. All sheeting splices must be capable of developing the full capacity of the sheet. The splice details shall be submitted to the D.C.E.S. for approval.

If the Contractor elects to do so, he may install the sheeting by Jacking it into the ground. The sheeting may be jacked against the existing railroad superstructure. The jacking load shall not exceed 25 tons. If the Contractor elects to install sheeting by Jacking he shall submit his jacking details to the Chief Engineer, Delaware and Hudson Railway Company, for approval prior to commencement of any sheeting installation work.

Suggested construction sequence:

1. Install permanent steel sheet piling.
2. Excavate existing embankment to an elevation 6 inches below wale.
3. Install W 10X33 wale and struts. (The details shown in Section A-A assume that the struts will be installed in a horizontal position. In order to minimize the quantity of sheeting required in front of the new footing the Contractor may elect to install the strut in a different orientation. The strut spacing shall not exceed 15 feet on centers and must be capable of supporting a horizontal load of 2 kips per linear foot of sheeting. The sheeting in front of the new footing shall be steel sheeting. The size and depth of sheeting shall be determined by the Contractor.)
4. Excavate to bottom of new footing.
5. Install stud shear connectors on permanent steel sheet piling.
6. Pour new footing and lower section of new wall.
7. Remove wales, struts and temporary steel sheeting.
8. Pour upper section of new wall.

The Contractor shall submit all sheeting and bracing details, along with his proposed method of construction, to the D.C.E.S. for approval prior to commencement of any sheeting work.

The cost of all permanent steel sheet piling, temporary steel sheet piling, wales, struts, braces and connection material, stud shear connectors, and all materials and equipment necessary to install the sheeting shall be included in the unit price bid for Item 552.02, Permanent Steel Sheet Piling.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

I-88 TO I-90 INTERCHANGE
RAMPS K AND L
UNDER DH RR BRIDGE
WALL PROFILE

PROJ. ENG. [illegible] DATE MADE
SQUAD [illegible] DRAWING NO. 2 OF 12

DETAILED BY [illegible] DETAIL CHECKED BY [illegible]
DESIGN CHECKED BY [illegible]
DESIGNED BY [illegible]

D96243

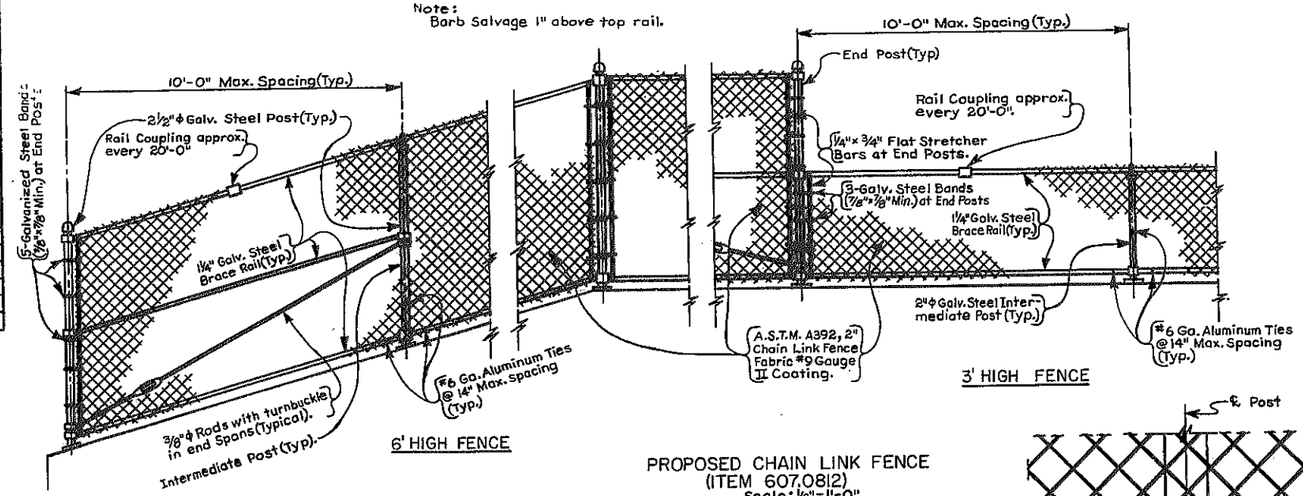
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	242.R1	289

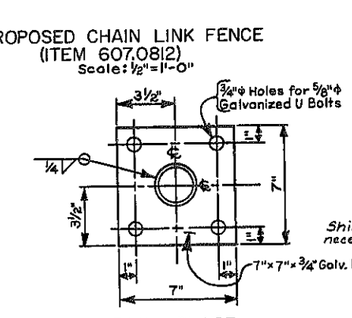
188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

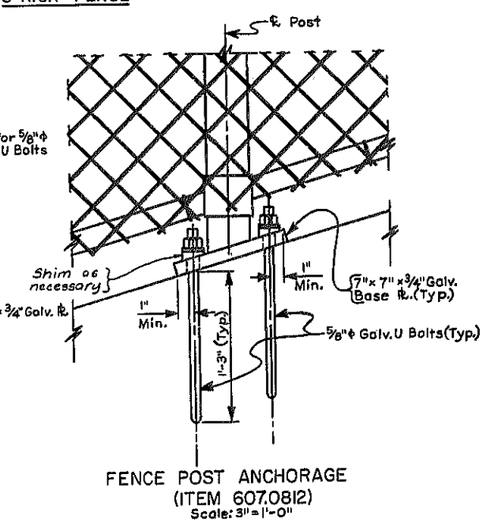
CAPITAL PROJECT IDENTIFICATION NO. 1357.04

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	EST. SUBSTR.	FINAL
203.21	Select Structure Fill	C.Y.	461	455.75
206.01	Structure Excavation	C.Y.	1810	1860.08
552.02	Permanent Steel Sheet Piling	S.F.	1470	1473.83
552.04	Temporary Steel Sheet Piling	S.F.	6009	7372.32
555.02	Concrete for Structures, Class B	C.Y.	338	338.29
556.0201	Uncoated Bar Reinforcement for Concrete Structures	Lb.	22,078	21336.21
558.01	Bituminous Material	S.F.	1669	2097.91
605.0702	Steel Pipe Underdrain 4 5/8" Semi Circular or 6" Perf. Corr.	L.F.	124	137.00
605.0901	Underdrain Filter, Type 1	C.Y.	96	89.65
15606.32.01	Half Section Concrete Median Barrier	L.F.	280	300.10
15606.32.02	Transition-Concrete Barrier to Box Beam Guide Rail	L.F.	104	104.00
607.0812	Optional Chain-Link Fencing with Top Rail-Aluminum or Aluminum Coated or	—	—	—
—	Galvanized Steel Chain-Link Fencing, 6' High	L.F.	255	370.00
612.01	Sodding	S.Y.	50	21.11
615.03	Watering Plants and Sod	M/Gal.	0.20	0
699.01	Mobilization	L.S.	Nec.	NEC.
609.0301	Stone Curb-Bridge (Type A)	LF	76	0
634.03	Conc. Cylinder Curing Box	Ea.	.66	.66







GENERAL NOTES:

Design Specifications: New York State Department of Transportation Standard Specifications for Highway Bridges dated April 1, 1976, with revisions.

Material and Construction Specifications: Standard Specifications, Construction and Materials, New York State Department of Transportation, Design and Construction Division, dated January 3, 1978, with current additions and modifications.

The cost of furnishinn and placing water used for Select Structure Fill, Item 203.21, will be paid for under Item 203.21 (included in Hwy Estimate.)

The cost of all joint material will be included in the price bid for the various items of the Contract, except as otherwise specified.

All anchor bolts, nuts and washers shall be galvanized in accordance with the requirements of 1973 Material Specification 719-01.

All concrete anchor studs which are attached to the various steel details shall meet the requirements listed in Subsection 709-05, Stud Shear Connectors. Payment for furnishing and placing the concrete anchors will be included in the unit price bid for the item to which the anchors are attached.

SUBSTRUCTURE NOTES:

All embankments of Select Structure Fill, Item 203.21 shall be compacted to 100 percent of standard Proctor maximum density as defined under Subsection 203-3.12 - Compaction.

Embankment in Place, Item 203.03, and Select Structure Fill, Item 203.21, shall be placed simultaneously, in contact on both sides of the vertical payment line Sheeting or other means shall not be used to separate the two materials.

The installation of Select Structure Fill, Item 203.21, as shown on the Structural Plans, shall be completed immediately following the completion of walls.

Bituminous Material, Item 558.01, shall be applied to the backs of all wing walls, not in contact with the steel sheet piling, above top of footings where fill is in contact with the walls.

The Contractor, with the permission of the Deputy Chief Engineer (Structures) may elect to introduce construction joints in the abutments at locations not shown on the plans. These construction joints shall be provided with shear keys and waterstops. Vertical construction joints introduced in the backwall should preferably be placed midway between the pedestals.

The cost of furnishing and placing water used for Sod Gutters will be paid for under Item 615.03 (included in Bridge Estimate).

The Contractor's attention is directed to Subsection 105-09, Work Affecting Railroads.

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

I-88 TO I-90 INTERCHANGE
RAMPS K AND L
UNDER DHRR BRIDGE
ESTIMATE OF QUANTITIES
AND GENERAL NOTES

PROJ. ENG. [illegible] DATE MADE
SQUAD [illegible] DRAWING NO. 3 OF 12

DETAILED BY [illegible]
DESIGNED BY [illegible]
DESIGN CHECKED BY
DETAIL CHECKED BY

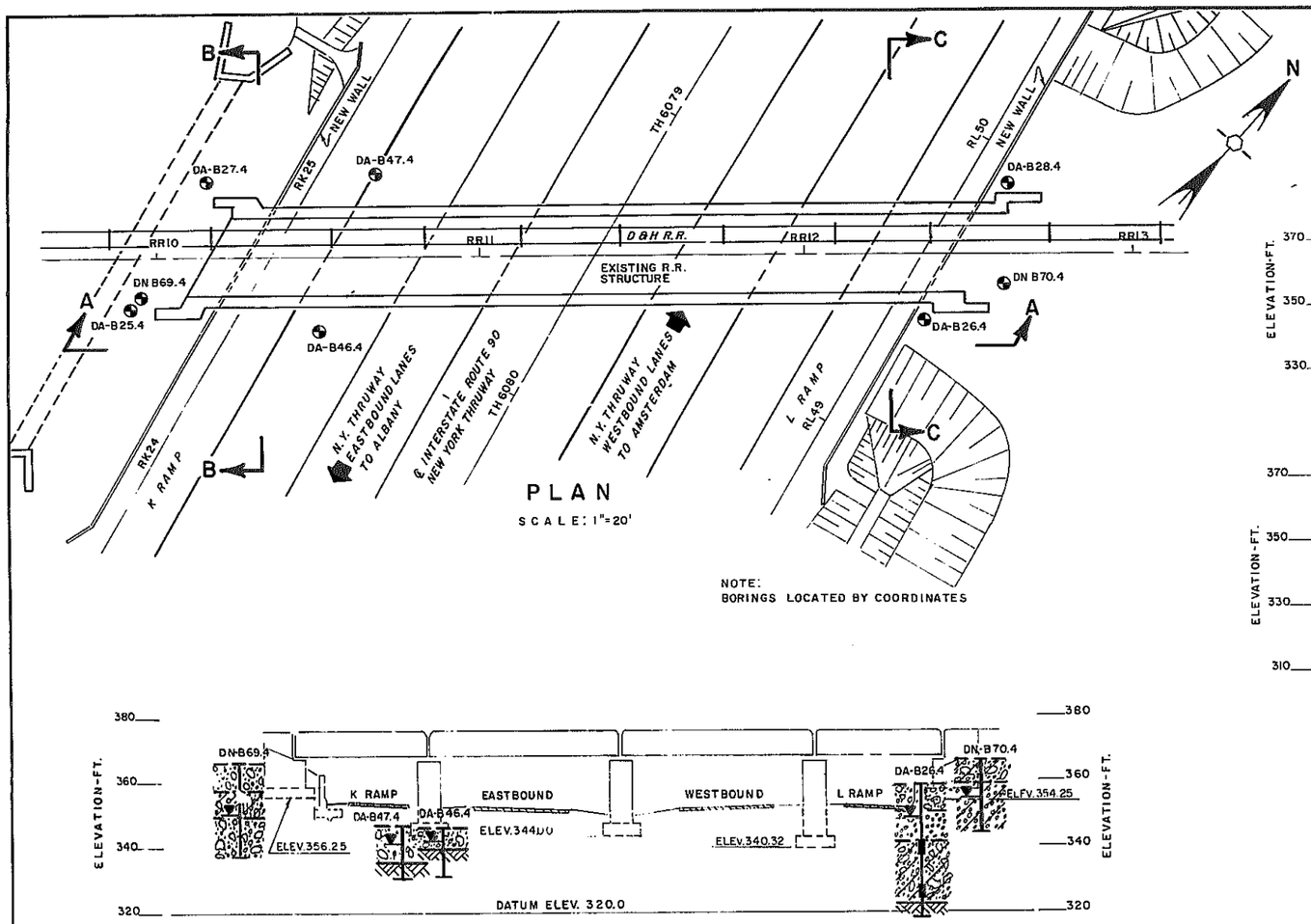
EQ 128 11-78

D96243

FED. RD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	213	284

INTERSTATE ROUTE 508
ROUTE 7 TO I-90 INTERCHANGE

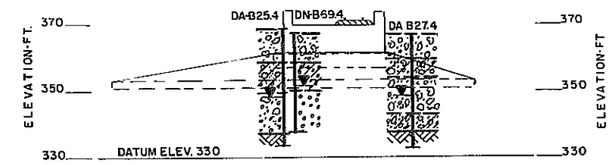
CAPITAL PROJECT IDENTIFICATION NUMBER: 1357.04



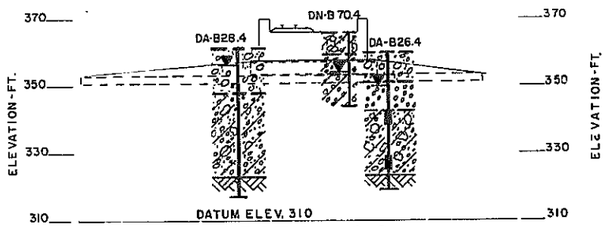
PLAN
SCALE: 1"=20'

NOTE:
BORINGS LOCATED BY COORDINATES

SECTION A-A
BORINGS PROJECTED TO FASCIA
PARALLEL TO CENTERLINE OF BEARINGS
SCALE: 1"= 20'



SECTION B-B
BORINGS PROJECTED PERPENDICULAR TO SECTION LINE
SCALE: 1"=20'



SECTION C-C
BORINGS PROJECTED PERPENDICULAR TO SECTION LINE
SCALE: 1"=20'

REFERENCE PLANS

Preliminary Structure Plans Used for Analysis were

Prepared By: The Structures Design and Construction Subdivision

Scale: 1" = 20' Date: 2/6/79

Prepared By: [illegible]
Drawn By: [illegible]
Dwg. Reviewed By: [illegible]
Checked By: [illegible]

GENERAL NOTES

The subsurface explorations shown hereon were made between 10/23/77 to 3/23/79 by the Regional Soils Section.

1) General soil and rock (where encountered) strata descriptions and indicated boundaries are based on an engineering interpretation of all available subsurface information by the Soil Mechanics Bureau and may not necessarily reflect the actual variation in subsurface conditions between borings and samples. Detailed data and field interpretations of conditions encountered in individual borings are shown on the subsurface exploration logs.
2) The observed water levels and/or conditions indicated on the subsurface profiles are as recorded at the time of exploration. These water levels and/or conditions may vary considerably, with time, according to the prevailing climate, rainfall or other factors and are otherwise dependent on the duration of and methods used in the explorations program.
3) Sound engineering judgment was exercised in preparing the subsurface information presented hereon. This information was prepared and is intended for State design and estimate purposes only. Its presentation on the plans or elsewhere is for the purpose of providing intended users with access to the same information available to the State. This subsurface information interpretation is presented in good faith and is not intended as a substitute for personal investigation, independent interpretations or judgment of the Contractor.
4) All structure details shown hereon are for illustrative purposes only and may not be indicative of the final design conditions shown in the contract plans.
5) Footing elevations shown are as indicated at the time of this drawing's preparation.

LEGEND

The following tables summarize the descriptive information used on this profile

Density (Non Plastic Soils)	No. of blows per foot of penetration of 2 inch O.D. (1-1/2 inch I.D.) sampler using a 300 lb drop hammer, 18 inch fall
Very Loose	0-3
Loose	4-8
Medium Compact	9-20
Compact	21-35
Very Compact	over 35
Consistency (Plastic Soils)	
Very Soft	0-2
Soft	3-6
Firm	7-12
Stiff	13-20
Hard	over 20

The system for describing soil materials shown on this drawing is detailed in "Soil Description Procedure" Official Issuance No. 7.41-6 STP 2/75 prepared by the New York State Department of Transportation Soil Mechanics Bureau.

SYMBOLS

DRILL HOLE — DA-B / DN-B

OBSERVED WATER LEVEL

Very Loose to Loose Brown Clayey Silt, Gravelly

Medium Compact to Very Compact Brown Clayey Silt, Gravelly

Medium Compact to Very Compact Brown and Gray Silty Sand, Gravelly with Clay

Very Loose to Loose Brown and Gray Silty Sand, Gravelly with Clay

Boulders

LEDGE ROCK

APPROVED AUG. 16 1979
L. H. Moore
DIRECTOR
SOIL MECHANICS BUREAU

REGION NO. 1
COUNTY SCHENECTADY
DWG. NO. 1 SM 2150

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DESIGN AND CONSTRUCTION DIVISION

GENERAL SUBSURFACE PROFILE FOR
I-88 TO I-90 INTERCHANGE RAMPS
K AND L UNDER DHRR BRIDGE

DRAWING NO 4 OF 12

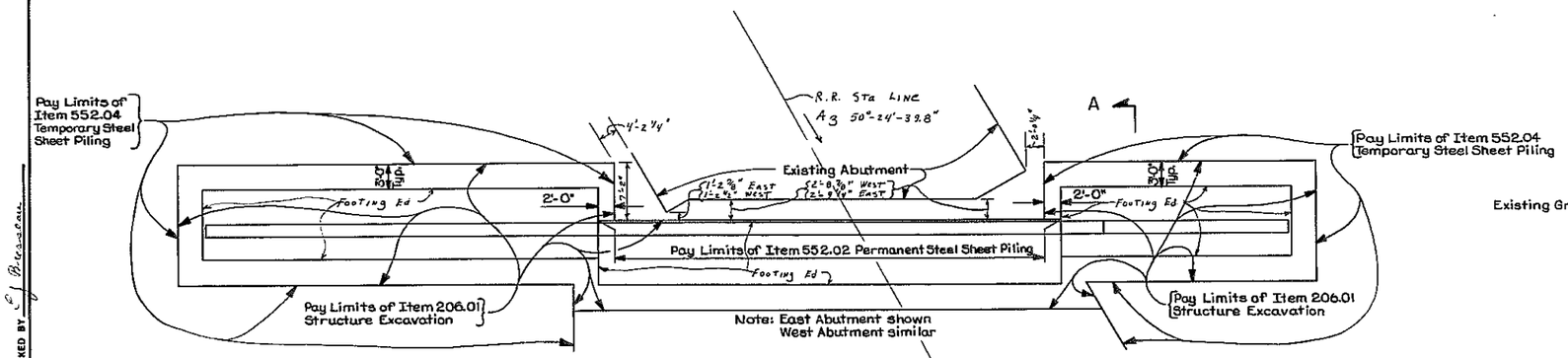
NBS TEM 2784

D96243

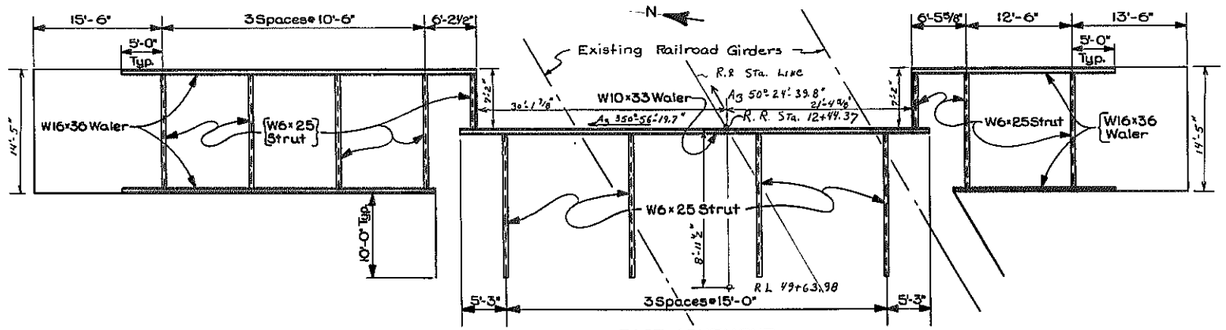
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO	TOTAL SHEETS
	NEW YORK	I-88-2(10)	244	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

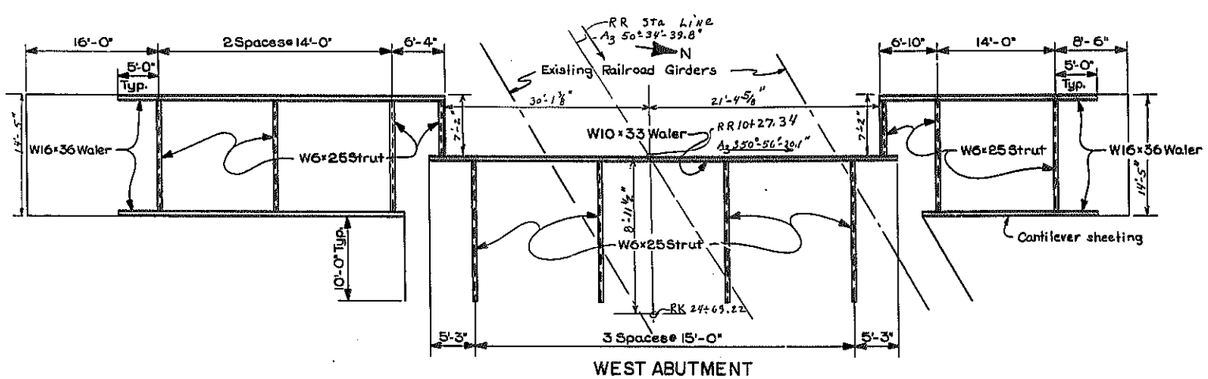
CAPITAL PROJECT IDENTIFICATION NO.



SHEETING & EXCAVATION PLAN
Scale: 1/8"=1'-0"

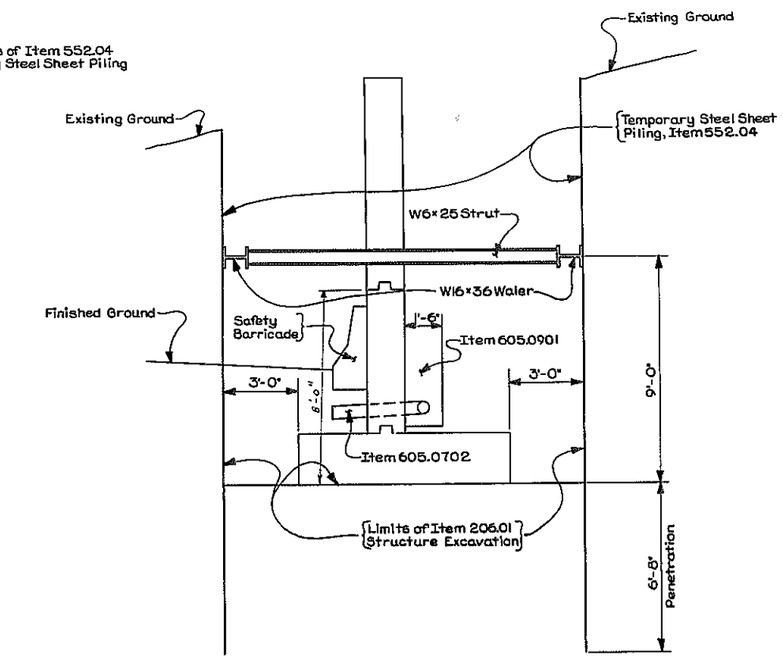


EAST ABUTMENT



WEST ABUTMENT

SHEETING SUPPORT PLAN
Scale: 1/8"=1'-0"



SECTION A-A
Scale: 3/8"=1'-0"

Notes: Temporary Steel Sheet Piling
Min. Sect. Mod. = 5.5 in³/ft.
Min. Thickness = 3/8"
Max. Height Cantilever (No Waler) = 8'-6"
Min. Penetration Depth = 6'-8"

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

I-88 TO I-90 INTERCHANGE
RAMPS K & L
UNDER D&H RR BRIDGE
SHEETING DETAILS

PROJ. ENG. J. Jackson | DATE MADE
SQUAD E. J. Brosseau | DRAWING NO. 5 OF 12

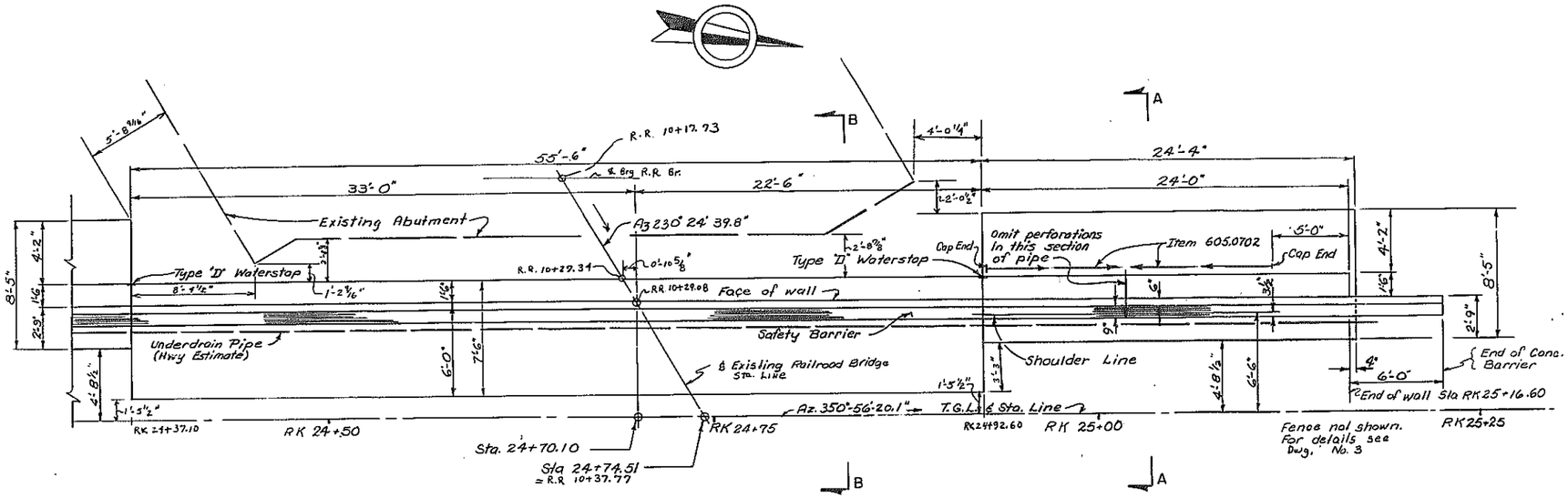
DETAILED BY J.F. Darcy
DETAIL CHECKED BY E. J. Brosseau
DESIGN CHECKED BY
DESIGNED BY E. J. Brosseau

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	245	289

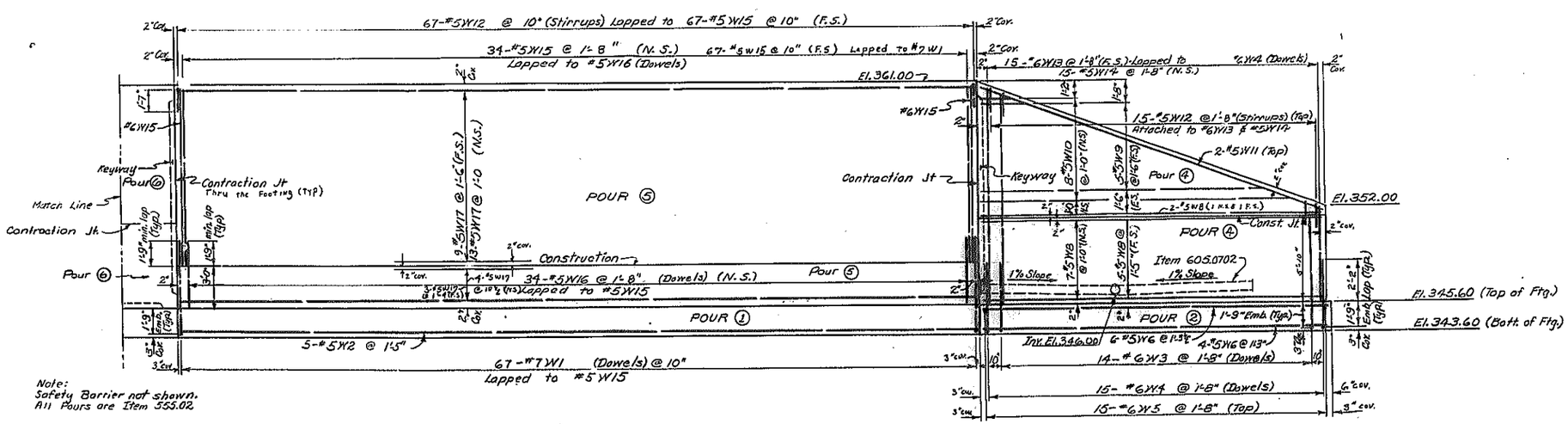
188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-74



PLAN-WEST WALL
Scale: 1/4" = 1'-0"

POUR TABLE	
POUR	ITEM 555.02
1	30.83
2	15.18
3	28.27
4	14.55
5	27.47
6	21.33



Note:
Safety Barrier not shown.
All Pours are Item 555.02

ELEVATION-WEST WALL
Scale: 1/4" = 1'-0"

For Underdrain Details see Dwg #5 of 27 on Route 7 Bridge - Sheet #217

For Design purposes the Foundation pressure does not exceed 2 1/2 T/SF.

For Sections A-A & B-B see Dwg #9
For Key Way Details see Dwg #19 of 27 on Route 7 Bridge - Sheet #231
For Waterstop Details see Dwg #9

All Footing reinforcement shall have a cover of 3" unless shown otherwise.
All other reinforcement shall have a cover of 2" unless shown otherwise.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

I-88 TO I-90 INTERCHANGE
RAMPS K AND L
UNDER DH RR BRIDGE
WEST WALL

PROJ. ENG. J. Jackson | DATE MADE
SQUAD C. J. Brown | DRAWING NO. 6 OF 12

DESIGNED BY Ronald Kaspar DESIGN CHECKED BY C. J. Brown DETAILED BY J. Dissant DETAIL CHECKED BY C. J. Brown

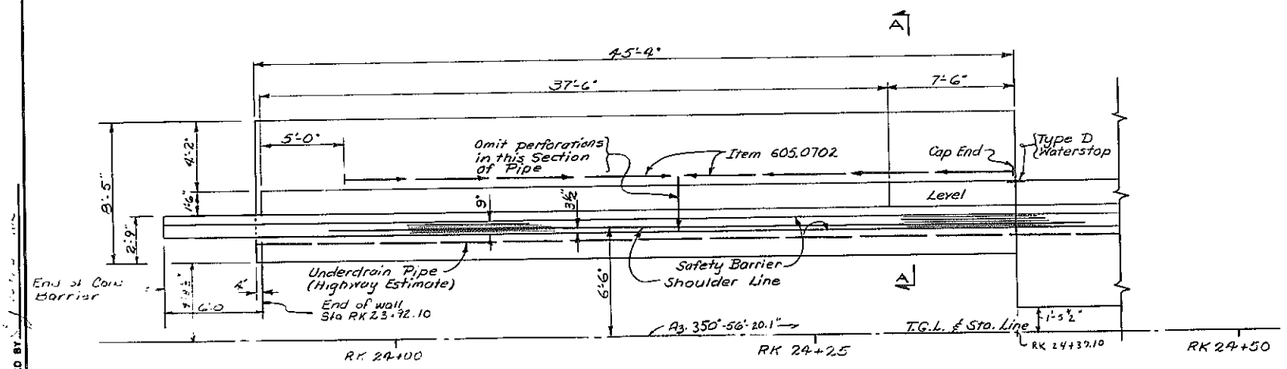
LD 175 11-78

D96243

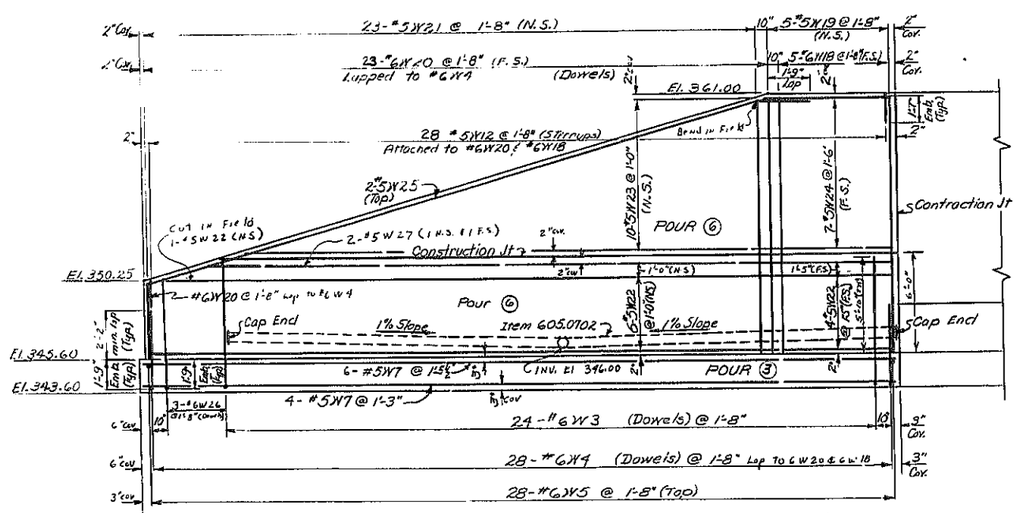
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	246R1	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-74



PLAN-WEST WALL (S.W.)
(POURS 3 & 6)
Scale: 1/4" = 1'-0"



ELEVATION-WEST WALL (S.W.)
Scale: 1/4" = 1'-0"

Note:
Safety Barrier not shown
All Pours are Item 555.02

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	J	R
West	Wa	11											
Pour	1												
7W1	7	67	13'-0"	17		0	0	5'-8"	2'-3"	5'-1"			1'-5"
5W2	5	5	55'-0"										
Pour	2												
6W3	6	14	10'-11"	17		0	0	2'-7"	2'-0"	6'-4"			1'-3"
6W4	6	15	4'-7"	1	0'-8"	3'-11"					0	0'-6"	
6W5	6	15	7'-11										
5W6	5	10	23'-10"										
Pour	3												
6W3	6	27	10'-11"	17		0	0	2'-7"	2'-0"	6'-4"			1'-3"
6W4	6	28	4'-7"	1	0'-8"	3'-11"					0	0'-6"	
6W5	6	28	7'-11"										
5W7	5	10	44'-10"										
Pour	4												
5W8	5	14	23'-8"										
5W9	5	5	AVE. 12'-3"										
5W9					Length varies			from	4'-3"	to 20'-3"			
5W10	5	8	AVE. 12'-3"										
5W10	5				Length varies			from	2'-11"	to 21'-7"			
5W11	5	2	25'-3"										
5W12	5	15	4'-4"	9		1'-7"	1'-2"	1'-7"					
6W13	6	15	AVE. 10'-9"										
6W13					Length varies			from	6'-3"	to 15'-3"			
5W14	5	15	AVE. 10'-9"										
5W14					Length varies			from	6'-3"	to 15'-3"			
Pour	5												
5W15	5	101	12'-3"										
5W16	5	39	4'-9"										
5W17	5	99	55'-2"										
5W12	5	6	4'-4"	9		1'-7"	1'-2"	1'-7"					
Pour	6												
6W18	6	5	15'-2"										
5W19	5	5	15'-2"										
6W20	6	23	AVE. 9'-9"										
6W20					Length varies			from	4'-5"	to 15'-0"			
5W21	5	23	AVE. 9'-9"										
5W21					Length varies			from	4'-5	to 15'-0"			
5W22	5	10	44'-8"										
5W23	5	10	AVE. 23'-7"										
5W23					Length varies			from	39'-4"	to 7'-9"			
5W24	5	7	AVE. 23'-7"										
5W24					Length varies			from	39'-4"	to 7'-9"			
5W25	5	2	40'-7"										
6W26	5	3	AVE. 9'-10"	17		0	0	2'-7"	2'-0"	varies			1'-3"
6W26					F varies		From	4'-9"	to 5'-9"				
5W12	5	28	4'-4"	9		1'-7"	1'-2"	1'-7"					
5W27	5	2	40'-6"										

Total Item 556.0201 West Wall ~~10,445~~ lbs. 10,434.79 Lbs.

For Bar Bending Diagrams see Dwg #25 of 27 on Route 7 Bridge - Sheet #237.

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

I-88 TO I-90 INTERCHANGE
RAMPS K AND L
UNDER DH RR BRIDGE
WEST WALL

PROJ. ENG. [illegible] | DATE MADE
SQUAD [illegible] | DRAWING NO. 7 OF 12

DESIGNED BY [illegible] DESIGN CHECKED BY [illegible] DETAILED BY [illegible] DETAIL CHECKED BY [illegible]

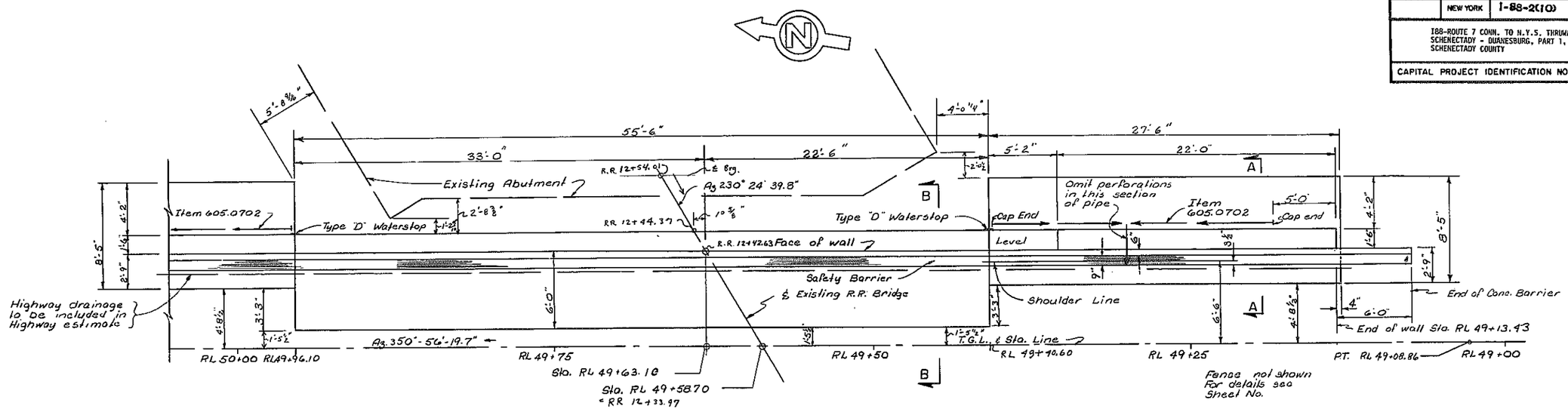
ED 328 11-78

D96243

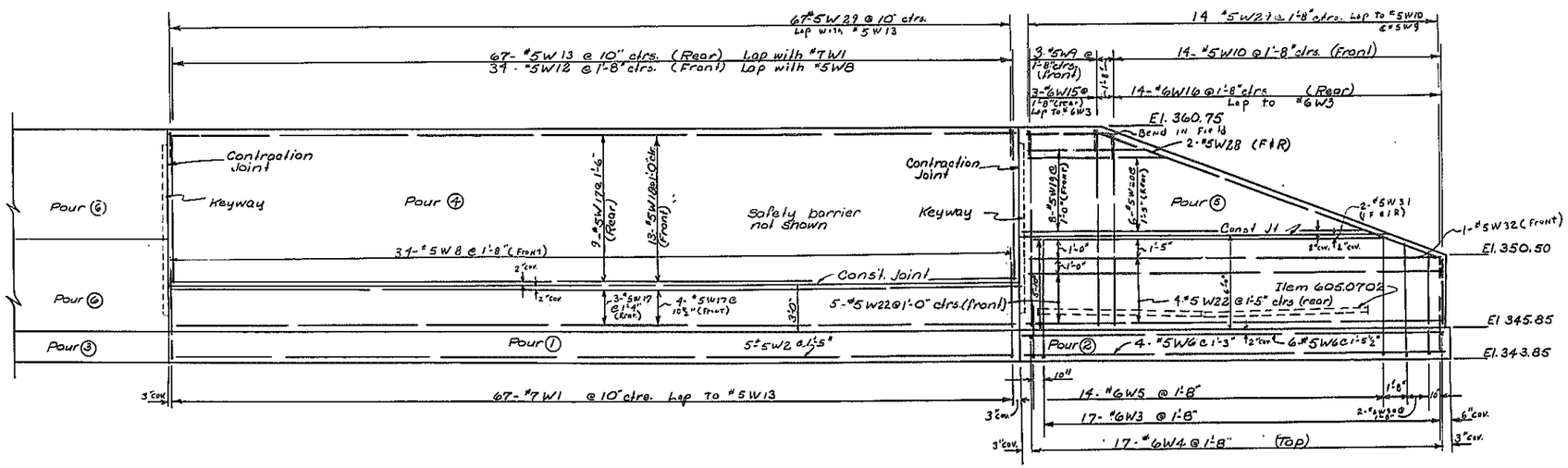
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	247	289

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO.



PLAN
SCALE 1/4"=1'-0"



ELEVATION
SCALE 1/4"=1'-0"

POUR TABLE	
POUR	ITEM 555.02
1	30.83
2	17.13
3	30.06
4	45.94
5	16.06
6	34.64

For Underdrain Details see Dwg #5 of 27 on Route 7 Bridge - Sheet # 217

For Design purposes the Foundation pressure does not exceed 2 1/2 T/SF.

For Sections A-A & B-B see Dwg #9
For Key Way Details see Dwg # 19 of 27 on Route 7 Bridge - Sheet #231
For Waterstop Details see Dwg #9

All Footing reinforcement shall have a cover of 3" unless shown otherwise.
All other reinforcement shall have a cover of 2" unless shown otherwise.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

I-88 TO I-90 INTERCHANGE
RAMPS K AND L
UNDER DH RR BRIDGE
EAST WALL

PROJ. ENG. 7/87 | DATE MADE
SQUAD | DRAWING NO. 8 OF 12

DESIGNED BY Geo. D. Kampen
DESIGN CHECKED BY
DETAILED BY Geo. D. Kampen
DETAIL CHECKED BY C. J. B. Lindsay

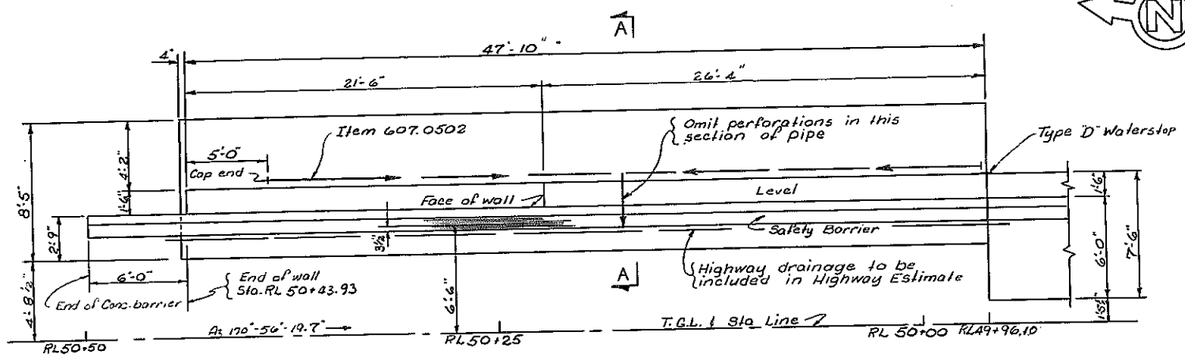
EQ 178 11-74

D96243

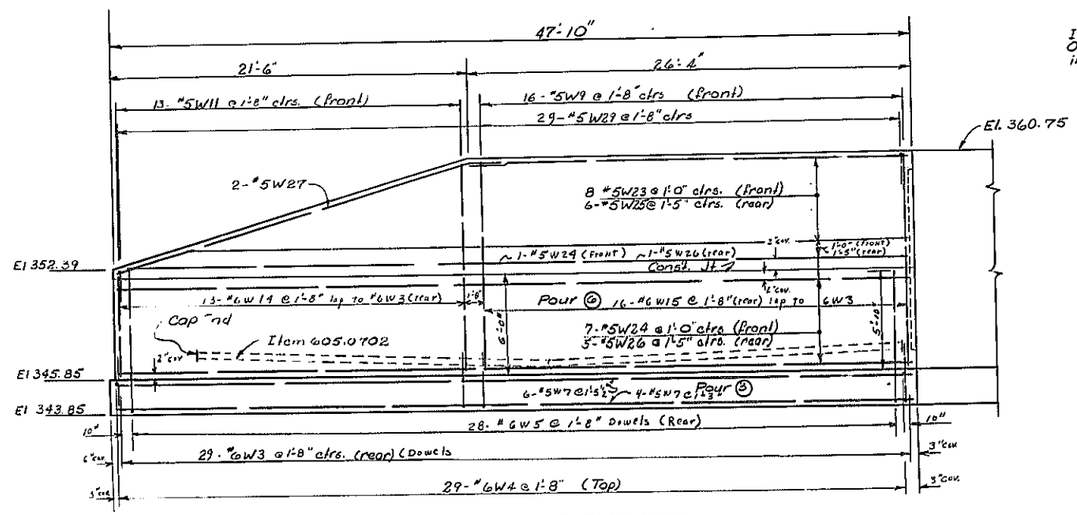
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	248 R1	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO.

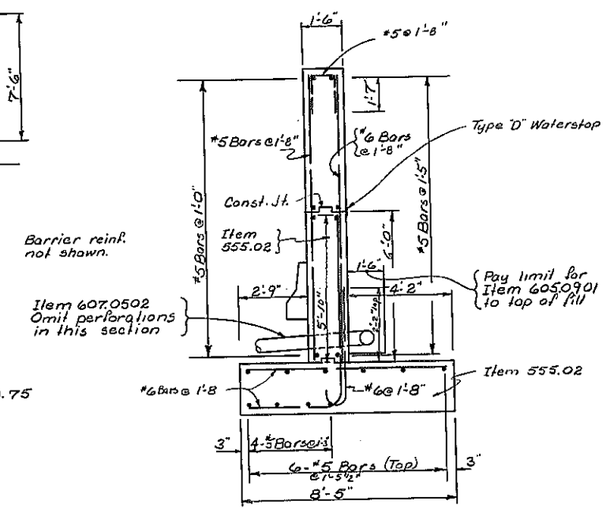


PLAN NORTHEAST WALL
SCALE 1/4"= 1'-0"

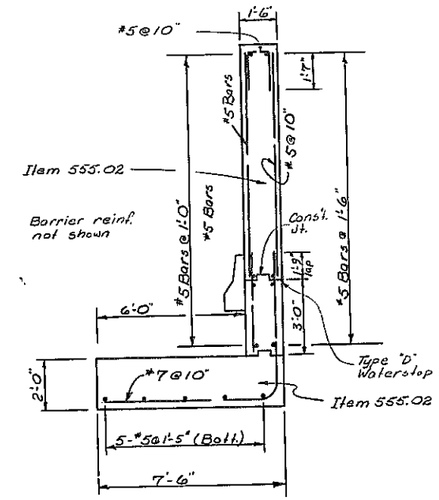


ELEVATION NORTHEAST WALL
SCALE 1/4"= 1'-0"

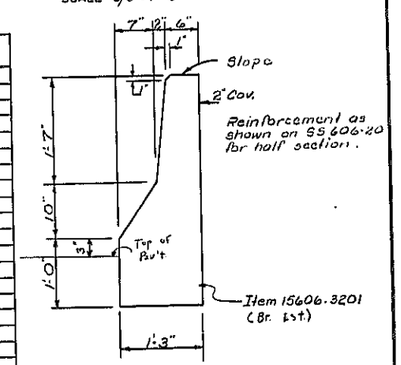
For Bar Bending Diagrams see Dwg #25 of 27 on Route 7 Bridge - Sheet #237



SECTION A-A
SCALE 3/8"= 1'-0"



SECTION B-B
SCALE 3/8"= 1'-0"

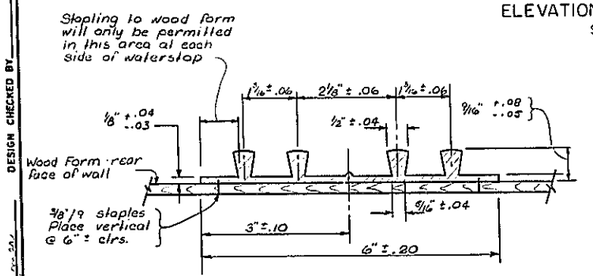


BARRIER DETAIL
SCALE 1"= 1'-0"

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	J	R
Pour 1													
7W1	7	67	13'-0"	17		0	0	5'-8"	2'-3"	5'-1"			1'-5"
5W2	5	5	55'-0"										
Pour 2													
6W3	6	17	4'-7"	1	0'-8"	3'-11"					0	0'-6"	
6W4	6	17	7'-11"										
6W5	6	14	10'-11"	17		0	0	2'-7"	2'-0"	6'-4"			1'-3"
5W6	5	10	27'-0"										
6W30	6	2	AVE 10'-5"	17		0	0	2'-7"	2'-0"	VARIES			1'-3"
Pour 3					F VARIES	FROM	3'-3" TO	6'-2"					
6W3	6	29	4'-7"	1	0'-8"	3'-11"					0	0'-6"	
6W4	6	29	7'-11"										
6W5	6	28	10'-11"	17		0	0	2'-7"	2'-0"	6'-4"			1'-3"
5W7	5	10	47'-4"										
Pour 4													
5W8	5	34	4'-9"										
6W12	6	34	11'-8"										
5W13	5	67	11'-8"										
5W17	5	9	55'-0"										

MARK	SIZE	NO.	LENGTH	TYPE	A	B	C	D	E	F	G	K	H
5W18	5	13	55'-0"										
5W29	5	67	4'-8"	9		1'-7"	1'-2"	1'-7					
Pour 5													
5W9	5	3	14'-8"										
5W10	5	14	AVE 5'-7"										
5W10					Length varies			From 4'-6"		to 14'-7"			
6W15	6	3	14'-8"										
6W16	6	14	AVE 5'-7"										
6W16					Length varies			From 14'-7"		to 4'-6"			
5W19	5	8	AVE 14'-0"										
5W19					Length varies			From 23'-6"		to 8'-6"			
5W20	5	6	AVE 15'-11"										
5W20					Length varies			From 23'-6"		to 8'-9"			
5W22	5	9	26'-10"										
5W28	5	2	29'-1"										
5W29	6	17	4'-8"	9		1'-7"	1'-2"	1'-7"					
5W31	5	2	29'-9"										
Pour 6													
5W9	5	16	14'-8"										
5W11	5	13	AVE 10'-3"										
5W11					Length varies			From 6'-4"		to 14'-2"			
6W14	6	13	AVE 10'-9"										
6W14					Length varies			From 7'-9"		to 14'-2"			
6W15	6	16	14'-8"										
5W23	5	8	AVE 36'-1"										
5W23					Length varies			From 26'-6"		to 45'-7"			
5W24	5	8	47'-6"										
5W25	5	6	AVE 35'-8"										
5W25					Length varies			From 26'-6"		to 43'-9"			
5W26	5	6	47'-6"										
5W27	5	2	29'-6"	8		0	1'-7"	22'-11"				1'-6"	7"
5W29	6	29	4'-8"	9		1'-7"	1'-2"	1'-7"					

Total Item 556.0201 East Wall = 10,901.42 lbs.



For use at construction and contraction joints.
Holes must not be made in waterstop for any purpose except as required for stapling to form.
Waterstop shall be light gray in color.

TYPE "D" WATERSTOP

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

I-88 TO I-90 INTERCHANGE
RAMPS K AND L
UNDER D H RR BRIDGE
EAST WALL

PROJ. ENG. | DATE MADE
SQUAD | DRAWING NO. 9 OF 12

DETAILED BY
DESIGN CHECKED BY
DETAIL CHECKED BY
DESIGNED BY

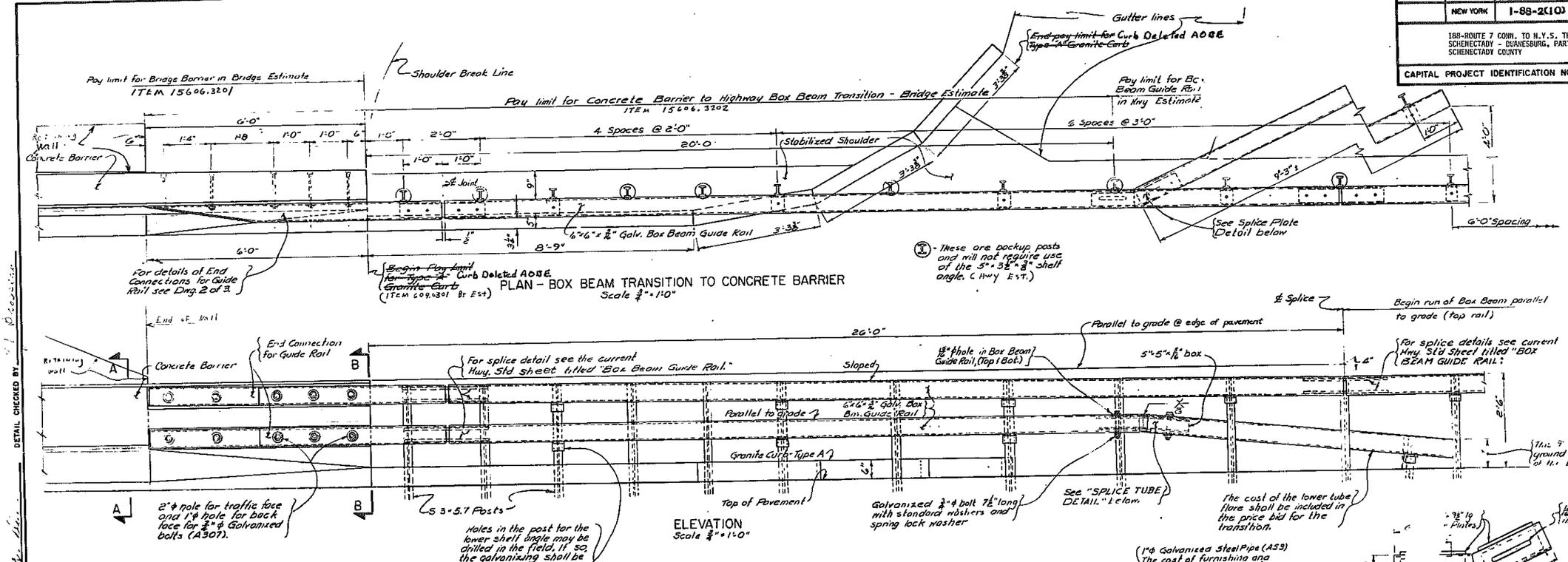
10 179 11-78

D96243

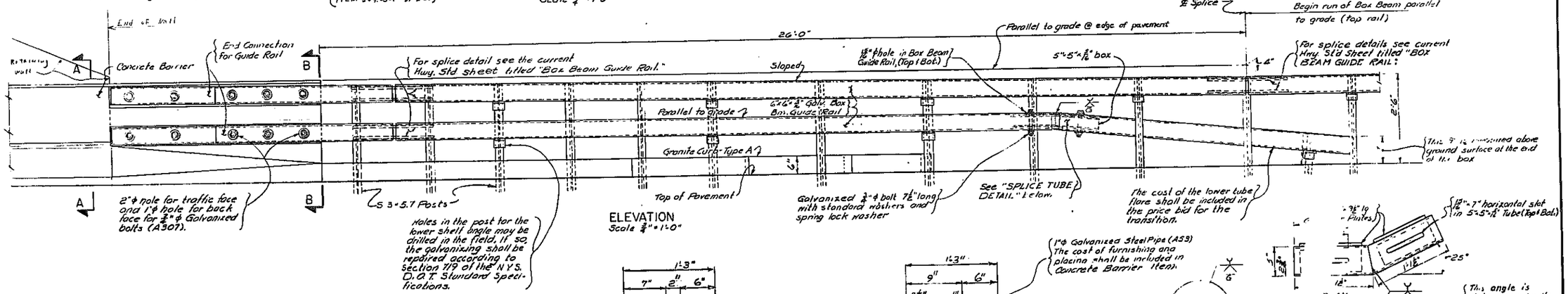
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	249R1	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 220
SCHENECTADY COUNTY

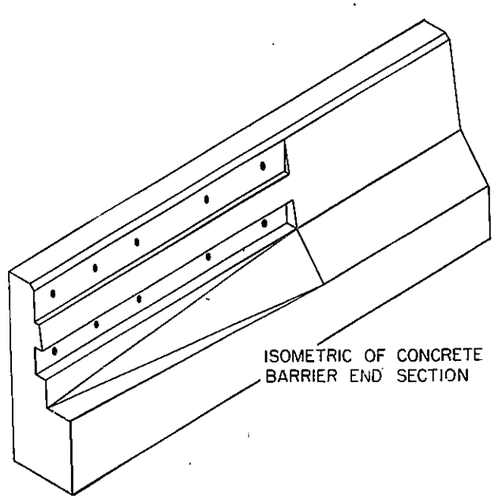
CAPITAL PROJECT IDENTIFICATION NO. 1357 04-111-74



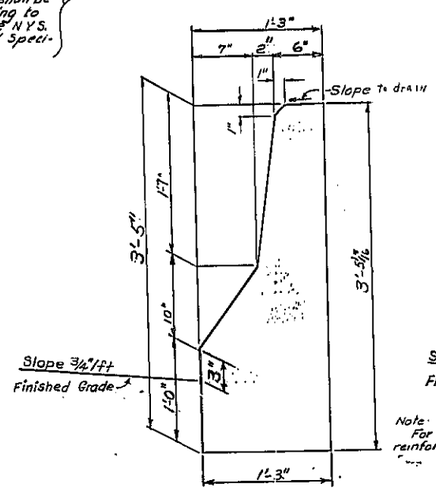
PLAN - BOX BEAM TRANSITION TO CONCRETE BARRIER
Scale ¾"=1'-0"



ELEVATION
Scale ¾"=1'-0"

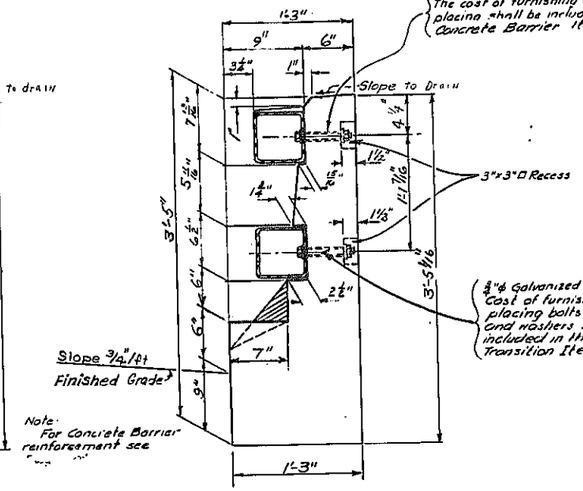


ISOMETRIC OF CONCRETE BARRIER END SECTION



SECTION A-A
Scale: 1½"=1'-0"

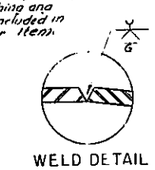
Note: For Concrete Barrier reinforcement see



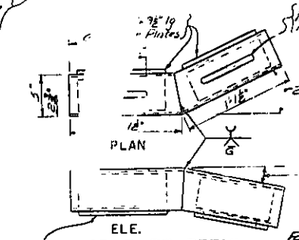
SECTION B-B
Scale: 1½"=1'-0"

1"φ Galvanized Steel Pipe (A53) The cost of furnishing and placing shall be included in Concrete Barrier Item.

¾"φ Galvanized Bolts (A307). Cost of furnishing and placing bolts with nuts and washers shall be included in the Transition Item.



WELD DETAIL



SPLICE TUBE DETAIL
Scale: 1½"=1'-0"

13/16"x7" horizontal slot in 5"x5"x3/16" Tube (Top Bolt)

This angle is determined by the 9" measurement at the end of the Box Beam. See Elevation above

1½"x7" slot in splice plates (Bottom).

For Details Of Welding Plates To 5"x5"x3/16" see current standard sheet titled STEEL BRIDGE RAILING - TWO RAIL.

Notes:
These details apply to all corners.
For post and post connection details see Dwg 2 of 3

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

CONCRETE BARRIER TRANSITION TO HIGHWAY BOX BEAM

PROJ. ENG. | DATE MADE
SQUAD | DRAWING NO. 11 OF 12

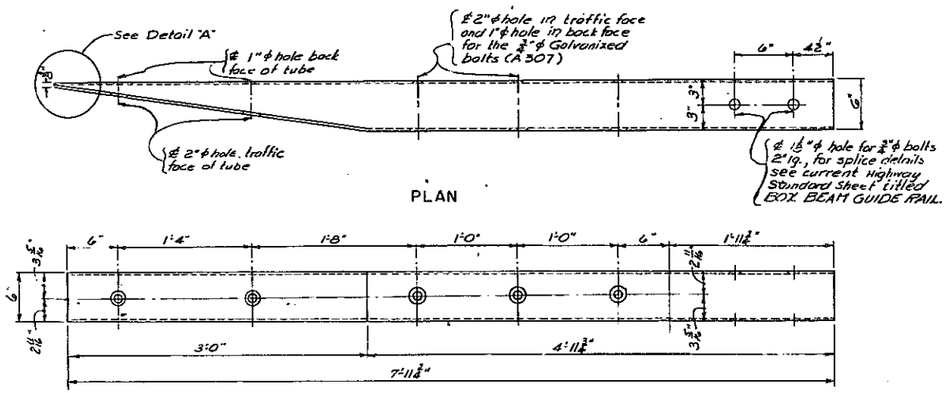
DESIGNED BY
DESIGN CHECKED BY
DETAILED BY
DETAIL CHECKED BY

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	250	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

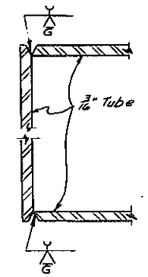
CAPITAL PROJECT IDENTIFICATION NO. 1357.04-111-74



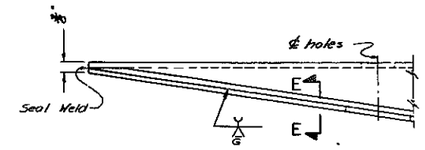
PLAN

ELEVATION

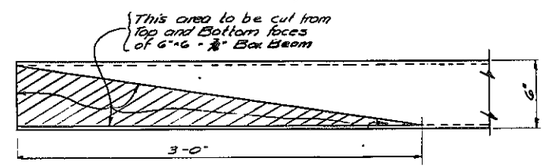
END CONN. FOR GUIDE RAIL
Scale: 1½" = 1'-0"



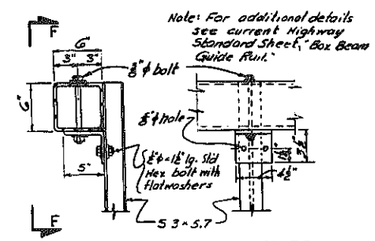
SECTION E-E
Scale: 6" = 1'-0"



DETAIL "A"
Scale: 6" = 1'-0"



CUT DETAIL END CONN.
Scale 2" = 1'-0"



ELEVATION SECTION F-F

TYPICAL RAIL CONNECTION TO POST
Scale: 1½" = 1'-0"

DESIGNED BY _____ DESIGN CHECKED BY _____ DETAILED BY Kenneth Allison DETAIL CHECKED BY C. J. Brosseau

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

CONCRETE BARRIER
TRANSITION TO HIGHWAY
BOX BEAM
REINFORCEMENT & END CONNECTION DET.

PREPARED BY J. Dunham | DATE MADE
CHECKED C. J. Brosseau | DRAWING NO. 11 OF 12

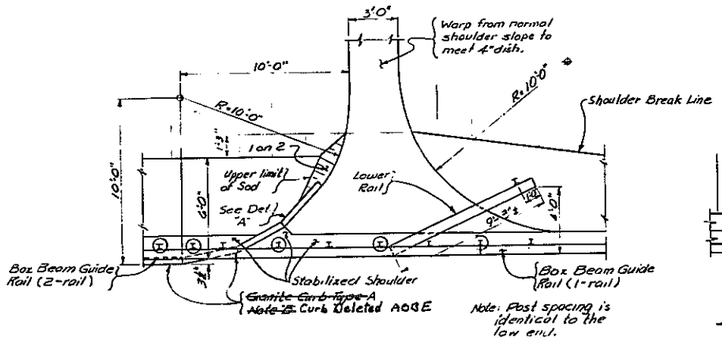
D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	1-88-2(10)	251R	284

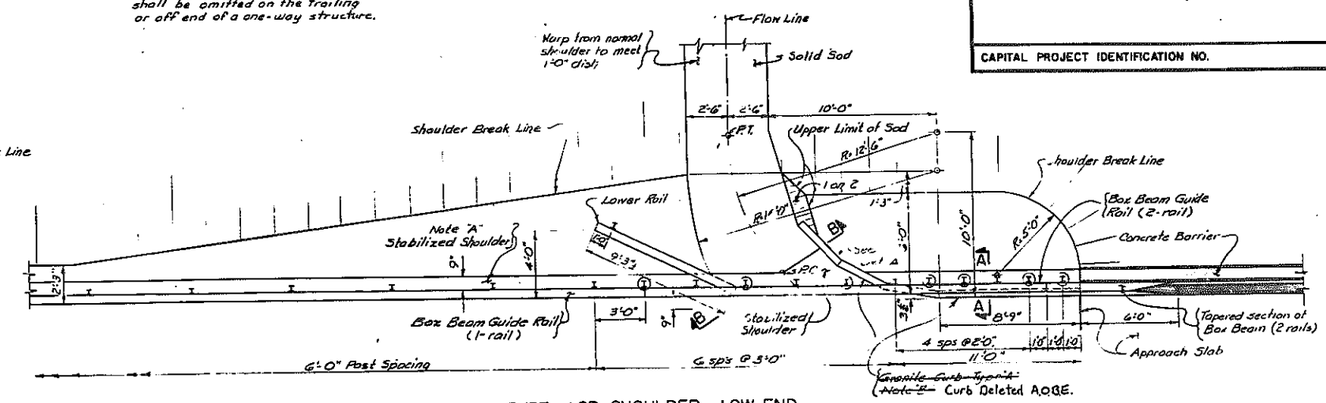
CAPITAL PROJECT IDENTIFICATION NO.

Note:
Except for the sod gutter, the details of the curb, concrete barrier, guide rail, post spacing and shoulder break lines are identical to the low end.

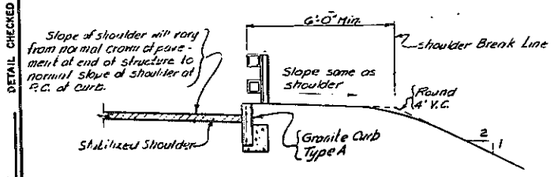
(I) These are backup posts and will not require use of the 5"×3½"×⅜" shelf angle. These backup posts shall be omitted on the trailing or off end of a one-way structure.



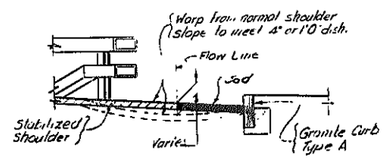
TYPE 1CB SHOULDER - HIGH END
Scale ¼"=1'-0"



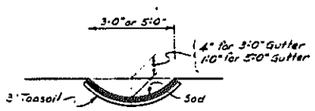
TYPE 1CB SHOULDER - LOW END
Scale ¼"=1'-0"



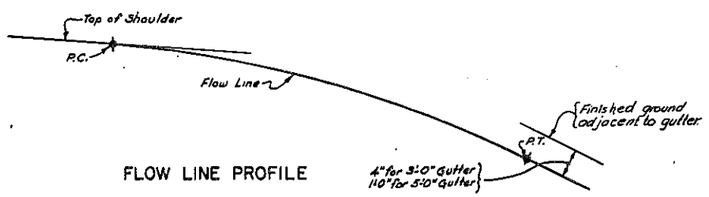
SECTION A-A



SECTION B-B



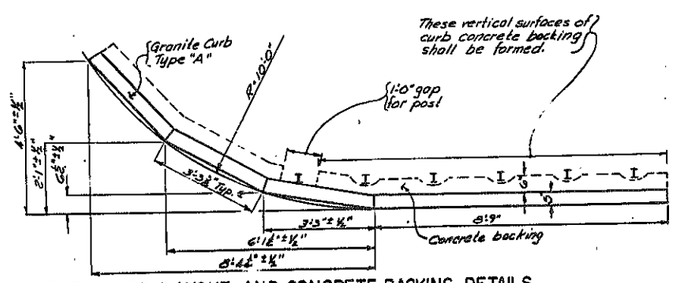
SECTION THRU GUTTER



FLOW LINE PROFILE

Notes:
"A" Pave this area with the same material as in the stabilized shoulder. Payment will be made under Stabilized Shoulder Item.

"B" For details of Granite Curb Type 'A' see current standard sheet titled CURB AND GUTTER.



CURB, CURB LAYOUT AND CONCRETE BACKING DETAILS
DETAIL 'A'

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

CONCRETE BARRIER
TRANSITION TO HIGHWAY
BOX BEAM
SHOULDER TREATMENT

PROJ. ENG. | DATE MADE
DRAWN | DRAWING NO. OF

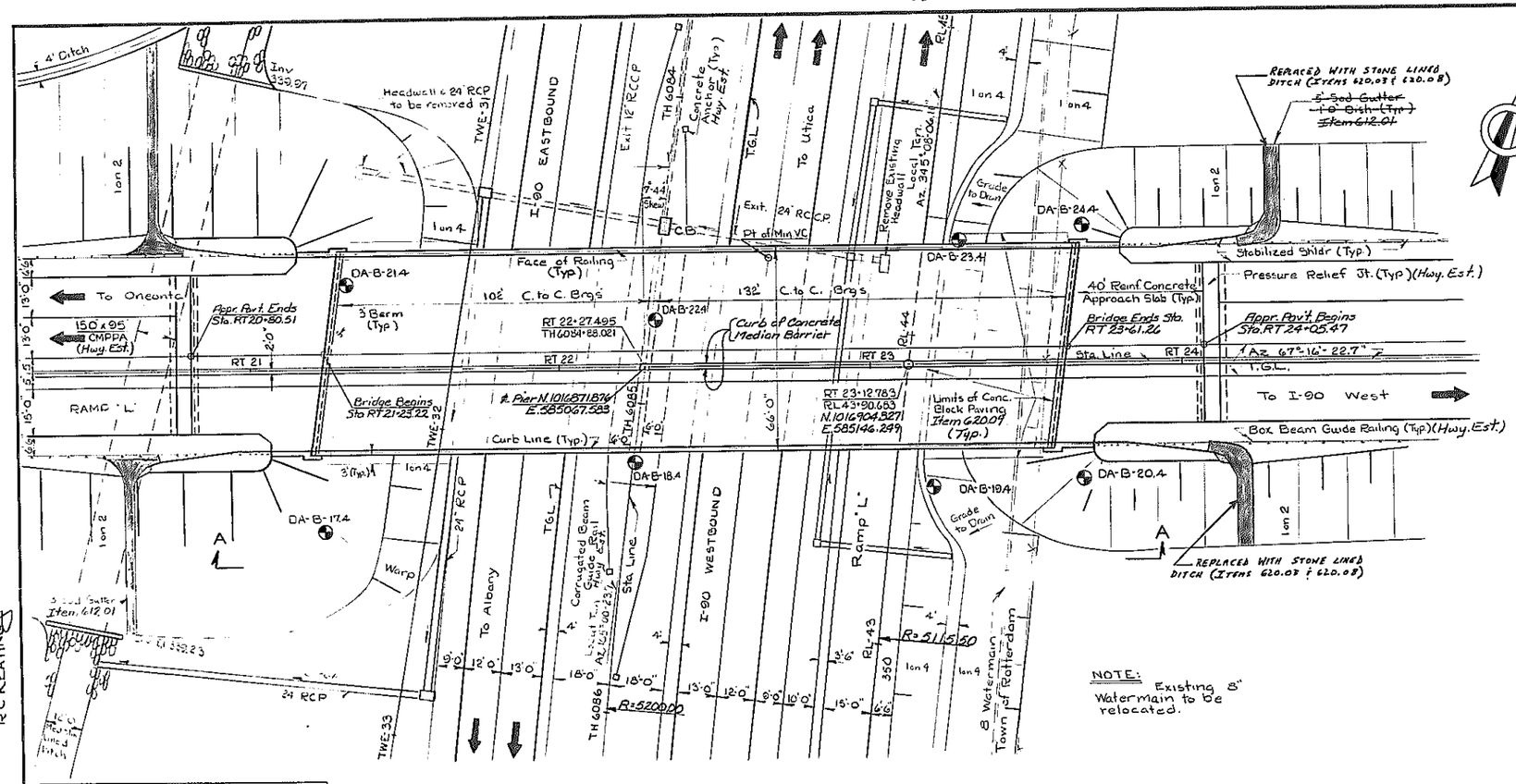
DETAIL CHECKED BY C. I. Brown
DETAILED BY
DESIGN CHECKED BY
DESIGNED BY

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	252 (1)	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

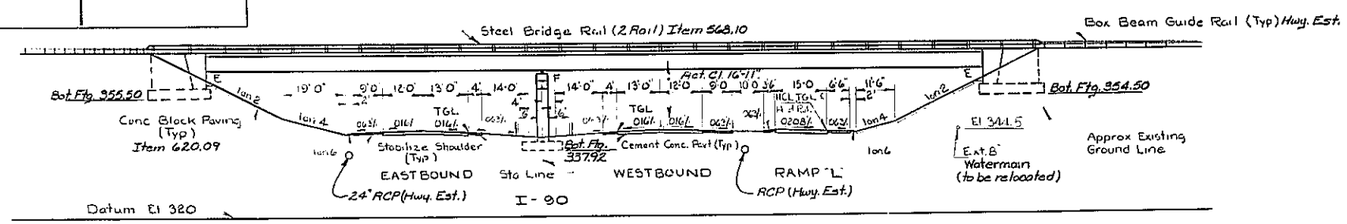
CAPITAL PROJECT IDENTIFICATION NO. 1357.04



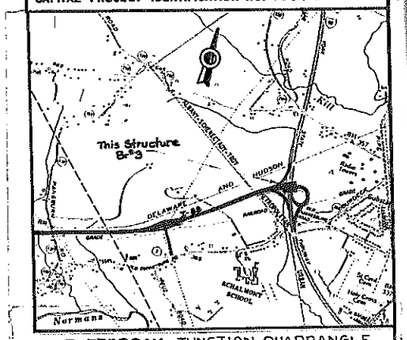
NOTE: Existing 8" Watermain to be relocated.

PLAN
Scale: 1" = 20'

CURVE DATA	
THRUWAY ℄ (TH)	RAMP L (RL)
R = 5200.0	R = 511.50
Lc = 473.331	Lc = 684.731
PC = TH 6075+33.24	PCC RL 42+14.13
Az. 173°-31'-35.8"	PT = RL 49+08.86
PT = TH 6126+20.48	Rd. Az. 350°-56'-19.7"
Δ = 52°-07'-54.4"	Δ = 70°-46'-52.6"
PI TH 6100+76.86	PI Sta. RL 45+62.03
N. 1015275.724	N. 1017027.975
E. 585104.781	E. 585093.677



ELEVATION A-A
Scale: 1" = 20



ROTTERDAM JUNCTION QUADRANGLE

LOCATION PLAN
Scale: 1" = 2000'

PIN 1357.04.111.72

SHEET	INDEX DESCRIPTION
1	GENERAL PLAN
2	GENERAL PROFILE
3	ESTIMATE OF QUANTITIES AND NOTES
4	GENERAL SUBSURFACE PROFILE
5	EMBANKMENT SHEET
6	EMBANKMENT - SECTIONS
7	WEST ABUTMENT - PLAN
8	WEST ABUTMENT - ELEVATION
9	WEST ABUTMENT - SECTIONS
10	WEST ABUTMENT - REINFORCEMENT
11	EAST ABUTMENT - PLAN
12	EAST ABUTMENT - ELEVATION
13	EAST ABUTMENT - SECTIONS
14	EAST ABUTMENT - REINFORCEMENT
15	PIER - PLAN AND ELEVATION
16	PIER - SECTIONS
17	PIER - REINFORCEMENT
18	TRANSVERSE SECTION AND FRAMING PLAN
19	SLAB REINFORCEMENT AND RAILING ELEVATION
20	GIRDER DETAILS
21	GIRDER TABLES
22	JOINT DETAILS
23	JOINT DETAILS
24	BEARING DETAILS
25	APPROACH SLAB DETAILS
26	MISCELLANEOUS DETAILS
27	MISCELLANEOUS DETAILS
28	MEDIAN BARRIER DETAILS
29	DRAINAGE DETAILS
30	RAILING DETAILS
31	BAR LIST
32	BAR LIST
33	BAR LIST

REVISIONS

⊕ = Indicates Boring Locations

B.I.N. 1071819

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

GENERAL PLAN

DRAWING NO. 1 OF 33

DATE MADE Aug 2, 1979
PROJECT ENGINEER
IN CHARGE OF Werner Carlson
DESIGNED BY
DESIGN CHECKED BY
DETAILED BY Tony Campoli
DETAIL CHECKED BY

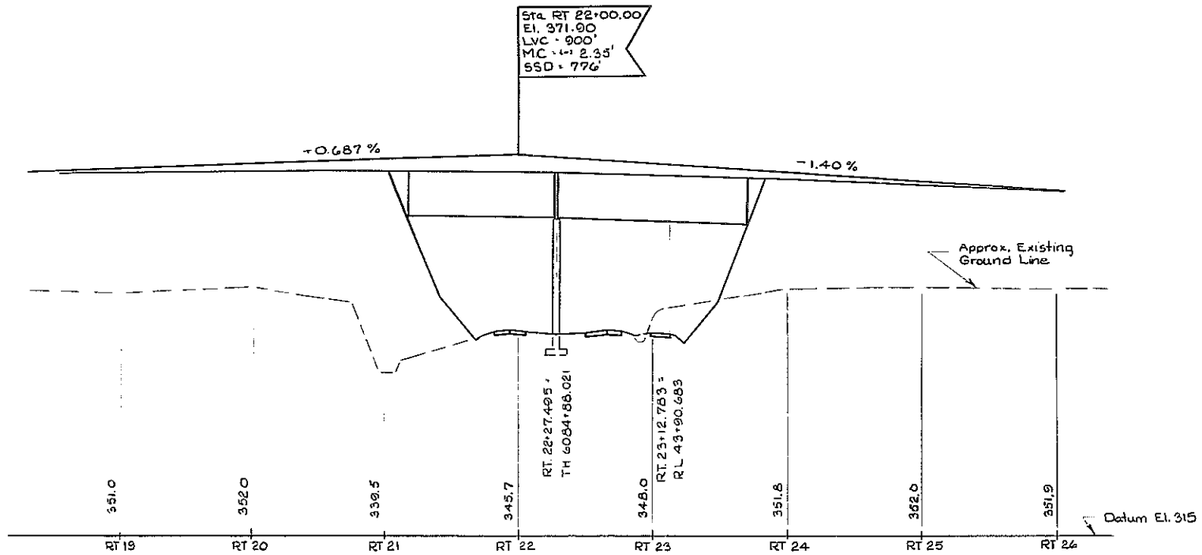
PRELIMINARY PLAN RECOMMENDED BY: RC KEATING 11-22-78

D96243

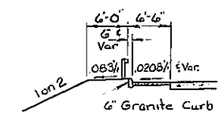
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	253	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

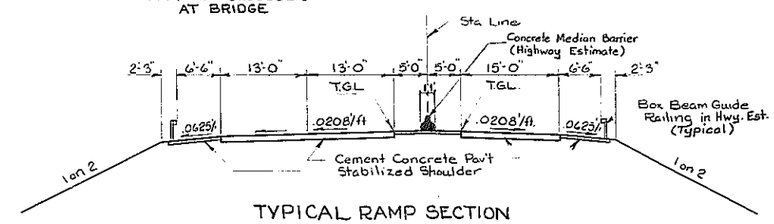
CAPITAL PROJECT IDENTIFICATION NO. 1357.04



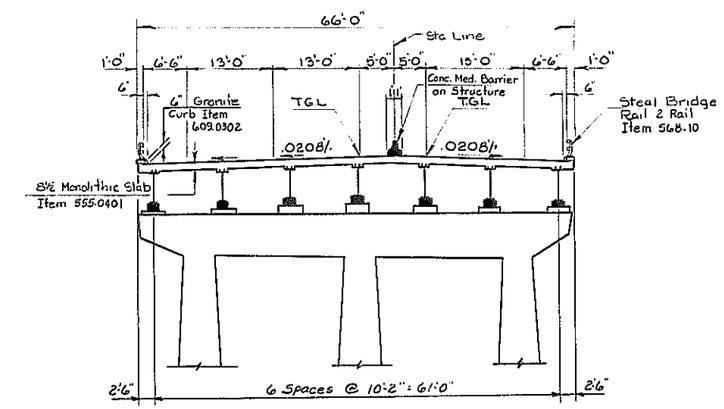
PROFILE I-88 (RAMPS P & L)
OVER I-90
Scale: Horiz. 1" = 50'
Vert. 1" = 10'



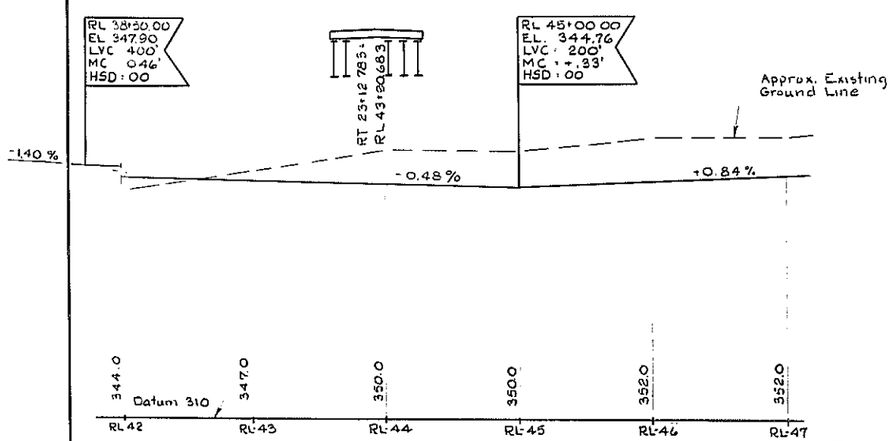
TYPICAL SHOULDER
AT BRIDGE



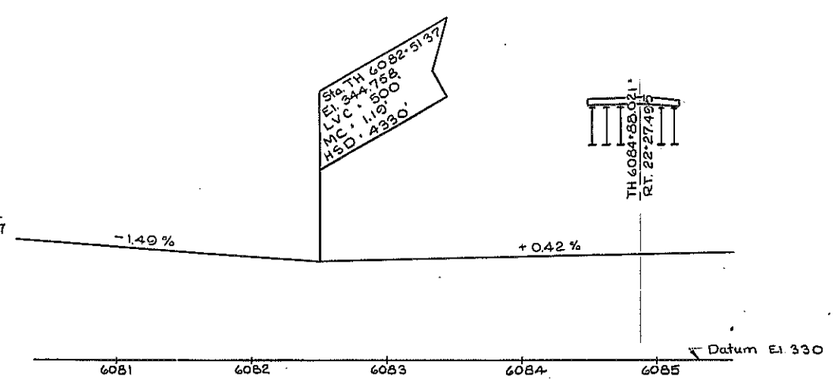
TYPICAL RAMP SECTION
AT APPROACH
Scale: 1" = 10'



TYPICAL BRIDGE SECTION
Scale 1" = 10'



PROFILE RAMP L
Scale: Horiz. 1" = 50'
Vert. 1" = 10'



PROFILE I-90
(WITH 2½" OVERLAY)
Scale: Horiz. 1" = 50'
Vert. 1" = 10'

DATE MADE Aug. 2, 1979
PROJECT ENGINEER
IN CHARGE OF Werner Oassen
DESIGNED BY
DESIGN CHECKED BY
DETAILED BY Tony Campoli
DETAIL CHECKED BY

BIN 1071819

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

GENERAL PROFILE

DRAWING NO. 2 OF 33

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	25421	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04

ESTIMATE OF QUANTITIES

ITEM NO.	DESCRIPTION	UNIT	SUBSTR. EST.	SUPER. EST.	MISC. EST.	ESTIMATED TOTALS	FINAL
203.21	Select Structure Fill	C.Y.	1820	—	—	1820	2629
206.01	Structure Excavation	C.Y.	1410	—	—	1410	1935
552.05	Safe Operation Sheet Piling	S.F.	4880	—	—	4880	1933
555.01	Concrete for Structures - Class A	C.Y.	73	35	—	108	115
555.02	Concrete for Structures - Class B	C.Y.	375	—	—	375	375
555.0401	Concrete for Structures - Class E (Structural Slab - Integral Wearing Surface - Bot. Formwork Req)	S.F.	—	15570	—	15570	15570
555.0404	Concrete for Structures - Class E (Structural Approach Slab - Integral Wearing Surface)	S.F.	—	—	5550	5550	5509
556.0201	Uncoated Bar Reinforcement for Structures	Lbs.	45025	60085	36650	141,760	143345
556.0202	Epoxy Coated Bar Reinforcement for Structures	Lbs.	—	62080	1580	63660	64068
556.03	Stud Shear Connectors For Bridges	Each	—	3038	—	3038	3038
558.01	Bituminous Material	S.F.	2050	—	—	2050	2166
559.01	Epoxy Protective Coating	S.F.	1620	—	—	1620	1743
564.01	Structural Steel	Lbs.	—	459,100	—	459,100	451795
565.0101	Bridge Bearing - Type AE 1 (High Steel Exp.)	Each	7	—	—	7	7
565.0102	Bridge Bearing - Type AE 2 (High Steel Exp.)	Each	7	—	—	7	7
565.0206	Bridge Bearing - Type AF6 (High Steel Fixed)	Each	7	—	—	7	7
567.35	Armored Jt. System with Compression Seal (Type A5)	L.F.	—	68	—	68	68
567.36	Armored Jt. System with Compression Seal (Type A6)	L.F.	—	68	—	68	68
568.10	Steel Bridge Rail (Two Rail)	L.F.	—	540	—	540	547
15570.25	Clean Controlled Oxidizing Structural Steel	L.S.	—	Nec.	—	Nec.	50
605.0702	Steel Pipe Underdrain 4⅝" Semi Circ. or 6" Perf. Corr.	L.F.	220	—	—	220	257
605.0901	Underdrain Filter - Type 1	C.Y.	100	—	—	100	92
609.0301	Stone Curb - Bridge (Type A)	L.F.	—	156	—	156	157
609.0302	Stone Curb - Bridge (Type F1)	L.F.	—	472	—	472	471
609.0303	Stone Curb - Bridge (Type G1)	L.F.	—	62	—	62	61
612.01	Sodding	S.Y.	—	—	110	110	102
615.03	Watering Plants and Sod	M.Gal.	—	—	.2	.2	1.54
619.01	Basic Maintenance & Protection of Traffic	L.S.			Nec.	Nec.	Nec.
619.02	Construction Signs	L.S.			Nec.	Nec.	Nec.
620.09	Concrete Block Paving	S.Y.	730	—	—	730	719
634.01	Survey and Stakeout	L.S.	Nec.	—	—	Nec.	Nec.
634.03	Concrete Cylinder Curing Box	Each	—	—	.33	.33	0.33
637.09	Engineer's Office, Type E	MO.	—	—	2.0	2.0	2.0
699.01	Mobilization	L.S.	—	—	Nec.	Nec.	Nec.

GENERAL NOTES:

Design Specification: New York State Department of Transportation Standard Specifications for Highway Bridges with all provisions in effect as of

Live Load: HS20-44 or two 24,000 lb. axles spaced 4'-0" on centers.

Material and Construction Specifications: Standard Specifications, Construction and Materials, New York State Department of Transportation, Design and Construction Division, dated January 3, 1978, with current additions and modifications.

The cost of water used for compaction of select fill items shall be paid for under Item 203.1601 , Applying Water.

(included in the Highway Estimate)

The cost of furnishing and placing water used for Sod Gutters will be paid for under Item 615.03 (included in Bridge Estimate).

The cost of all joint material will be included in the price bid for the various items of the Contract, unless otherwise specified on the Plans.

SUBSTRUCTURE NOTES

Unsuitable material, including topsoil, shall be removed from beneath substructures placed on fills less than 20 feet in height. The height of fill shall be measured from the original ground surface to the theoretical grade line. Replacement of the removed material shall be done with the item indicated on the Contract Plans.

All embankments of Select Structure Fill, Item 203.21 shall be compacted to 100 percent of standard Proctor maximum density as defined under Subsection 203-3.12 - Compaction.

Embankment in Place, Item 203.03 , and Select Structure Fill, Item shall be placed simultaneously, in contact, on both sides of the vertical payment line. Sheeting or other means shall not be used to separate the two materials.

The installation of Select Structure Fill, Item 203.21 , as shown on the Structural Plans, shall be completed immediately following the completion of abutments or walls.

Bituminous Material, Item 558.01 , shall be applied to the backs of all abutments and wingwalls above top of footings where fill is in contact with the walls.

Epoxy Protective Coating for Concrete, Item 559.01 , shall be applied to the following surfaces:

ABUTMENTS: All exposed pedestal surfaces, bridge seats, including the area under the bearings, exposed vertical surfaces of backwall, and curtainwalls facing the superstructure.

PIERS: All pedestal surfaces, including the area under the bearings and the top surface of pier between pedestals including the edge chamfer at top edge of pier.

The Contractor, with the permission of the Deputy Chief Engineer (Structures) may elect to introduce construction joints in the abutments at locations not shown on the Plans. These construction joints shall be provided with shear keys and waterstops. Vertical construction joints introduced in the backwall should preferably be placed midway between the pedestals.

CONSTRUCTION PROCEDURE

The approach embankments for the West and East Abutments shall be built to the roadway subgrade, including the abutment area, and a one month waiting period shall be observed prior to excavating and constructing the abutments.

A two week waiting period shall be observed after constructing the Pier and both of the abutments before pouring the pedestals for these substructures to their final elevation. However, before observing this waiting period, the ground surface shall be completed to the roadway subgrade or to the finished ground line.

The Engineer shall set a grade stake at the end of each wingwall and at the station line to monitor the settlement at each approach embankment during the one month waiting period that has to be observed at each abutment. Readings on these grade stakes shall be taken at least twice a week and the information transmitted to the Soil Mechanics Bureau. After receiving this information, the Soil Mechanics Bureau shall advise the Deputy Chief Engineer (Structures) on whether any extra precautionary measures have to be taken due to excessive embankment settlement. Any cost incurred from these precautionary measures shall be covered in the extra work provisions of the Standard Specifications.

SUPERSTRUCTURE NOTES

The structural slab for this structure shall be formed using permanent corrugated metal forms for concrete decks. (See details in Proposal.)

All exposed concrete shall be covered with polyethylene sheeting or other material approved by the Engineer. The covering shall remain until the completion of the Contract or A. O. S. E. The cost of the covering shall be included in the Structural Concrete Item.

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

ESTIMATE OF QUANTITIES AND NOTES

PROJ. ENG. G. Foreman | DATE MADE Aug 2, 1979
SQUAD G. Foreman Classen | DRAWING NO. 3 OF 33

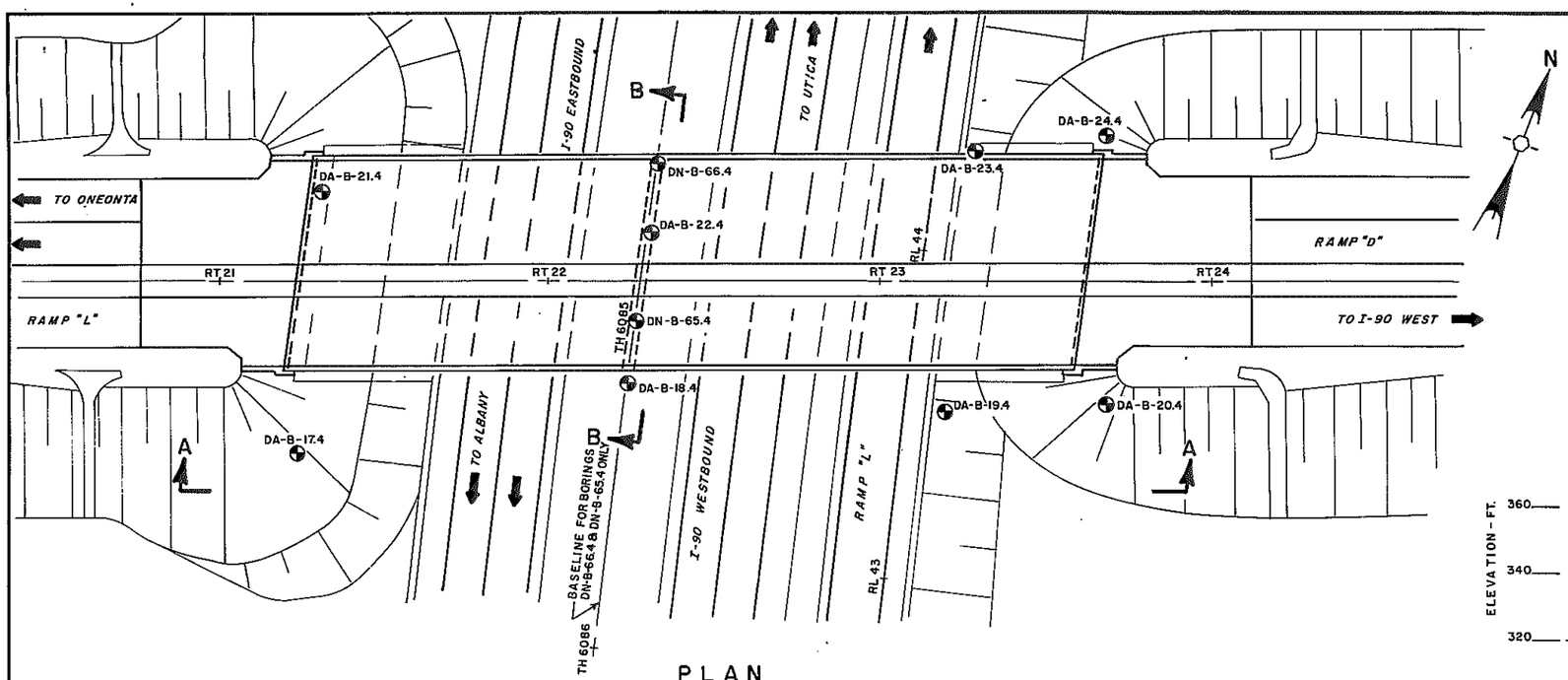
DESIGNED BY ____ DESIGN CHECKED BY ____ DETAILED BY Rod Cain DETAIL CHECKED BY ____

D96243

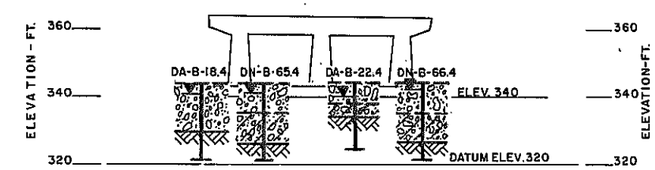
FED. RD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	255	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

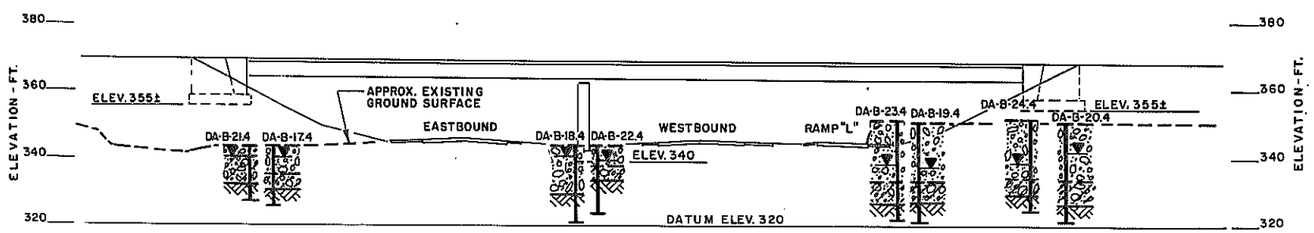
CAPITAL PROJECT IDENTIFICATION NUMBER: 1357.04



PLAN
SCALE: 1"=20'



SECTION A-A
BORINGS PROJECTED PERPENDICULAR TO SECTION LINE
SCALE: 1"=20'



SECTION A-A
BORINGS PROJECTED TO SECTION LINE PARALLEL TO CENTERLINE OF BEARINGS
SCALE: 1"=20'

Coordinates were used to locate the following borings:

DAB-17.4	DAB-20.4
DAB-18.4	DAB-21.4
DAB-19.4	DAB-22.4

REFERENCE PLANS

Preliminary Structure Plans Used for Analysis were

Prepared By: The Structures Design and Construction Sub-division

Scale: 1" = 20' Date: 8/24/78

Prepared By: [signature]
Drawn By: [signature]
Dwg. Reviewed By: [signature]
Checked By: [signature]

GENERAL NOTES

The subsurface explorations shown hereon were made between 10/28/77 to 12/7/78 by the Regional Soils Section.
1) General soil and rock (where encountered) strata descriptions and indicated boundaries are based on an engineering interpretation of all available subsurface information by the Soil Mechanics Bureau and may not necessarily reflect the actual variation in subsurface conditions between borings and samples. Detailed data and field interpretations of conditions encountered in individual borings are shown on the subsurface exploration logs.
2) The observed water levels and/or conditions indicated on the subsurface profiles are as recorded at the time of exploration. These water levels and/or conditions may vary considerably, with time, according to the prevailing climate, rainfall or other factors and are otherwise dependent on the duration of and methods used in the explorations program.
3) Sound engineering judgment was exercised in preparing the subsurface information presented hereon. This information was prepared and is intended for State design and estimate purposes only. Its presentation on the plans or elsewhere is for the purpose of providing intended users with access to the same information available to the State. This subsurface information interpretation is presented in good faith and is not intended as a substitute for personal investigation, independent interpretations or judgment of the Contractor.
4) All structure details shown hereon are for illustrative purposes only and may not be indicative of the final design conditions shown in the contract plans.
5) Footing elevations shown are as indicated at the time of this drawing's preparation.

LEGEND

The following tables summarize the descriptive information used on this profile.

	No. of blows per foot of penetration of 2 inch O.D. (1-1/2 inch I.D.) sampler using a 300 lb. drop hammer, 18 inch fall
Density (Non Plastic Soils)	
Very Loose	0-3
Loose	4-8
Medium Compact	9-20
Compact	21-35
Very Compact	over 35
Consistency (Plastic Soils)	
Very Soft	0-2
Soft	3-6
Firm	7-12
Stiff	13-20
Hard	over 20

The system for describing soil materials shown on this drawing is detailed in "Soil Description Procedure" Official Issuance No. 7.41-5 STP 2/75 prepared by the New York State Department of Transportation Soil Mechanics Bureau.

SYMBOLS

DRILL HOLE — DN-B / DA-B

OBSERVED WATER LEVEL

Loose to Medium Compact
Brown and Gray Sandy Silt, Clayey, Gravelly

Compact to Very Compact
Brown and Gray Clayey Silt, Gravelly

LEDGE ROCK

APPROVED JAN. 19 1979
L. H. Moore
DIRECTOR
SOIL MECHANICS BUREAU

REGION NO. 1
COUNTY SCHENECTADY
DWG. NO. 1 SM 2143

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DESIGN AND CONSTRUCTION DIVISION

GENERAL SUBSURFACE PROFILE FOR BRIDGE No. 3 RAMPS "P" AND "L" OVER N.Y.S. THRUWAY AND RAMP "L"

DRAWING NO 4 OF 33

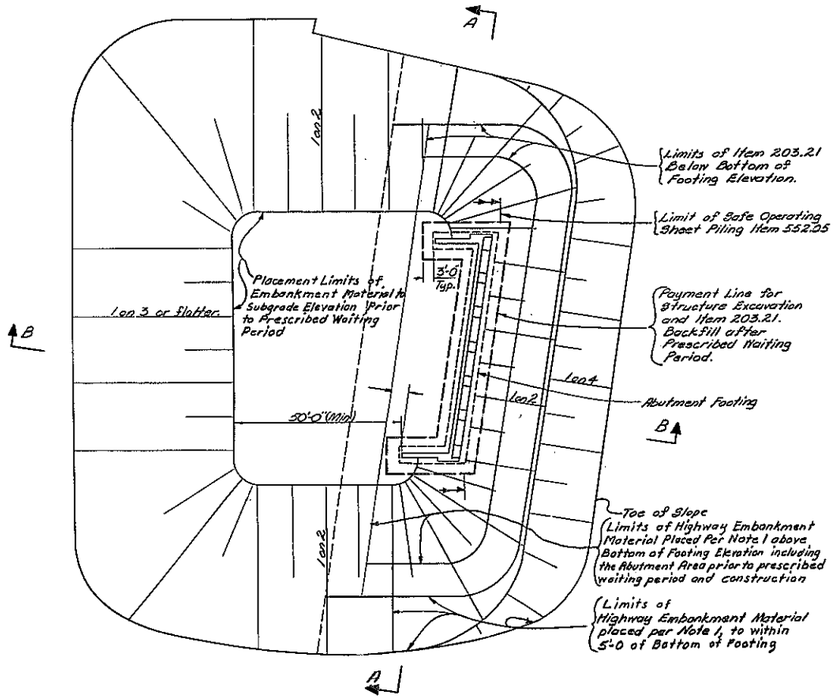
SM 35-9 (2/76)
KAB TEM 2284

D96243

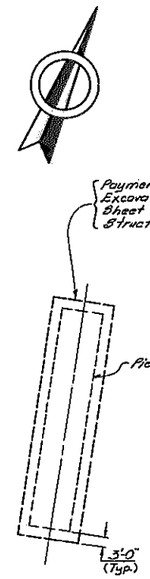
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	256	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

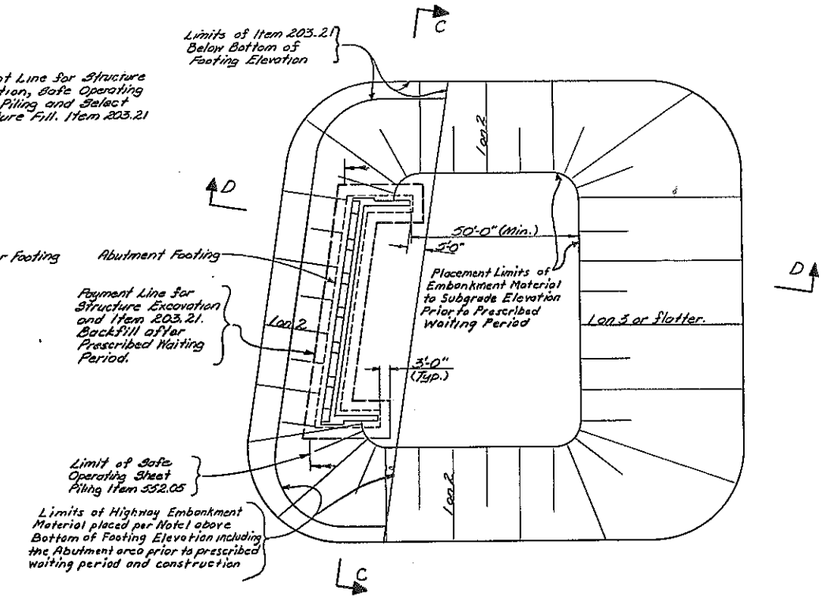
CAPITAL PROJECT IDENTIFICATION NO. 1337.04



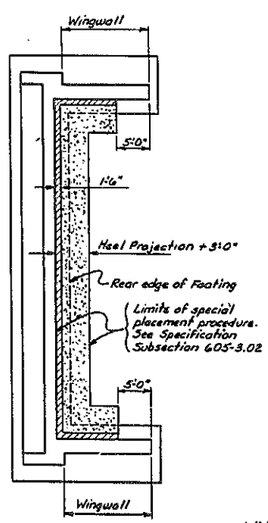
WEST ABUTMENT - PLAN
Scale: 1" = 20'-0"



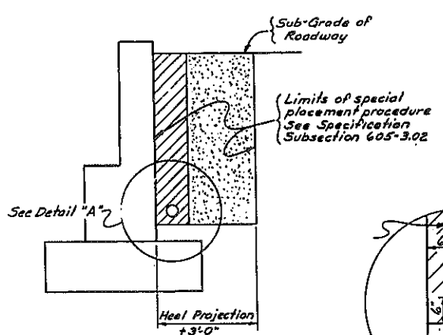
PIER - PLAN
Scale: 1" = 20'-0"



EAST ABUTMENT - PLAN
Scale: 1" = 20'-0"

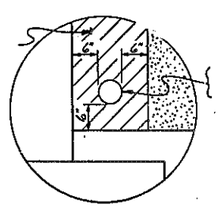


PLAN

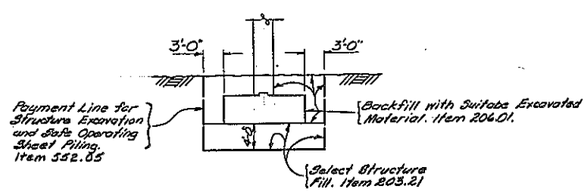


TYPICAL CROSS SECTION

LIMITS FOR POROUS DRAINAGE AGGREGATE
Not to Scale



DETAIL "A"



PIER - ELEVATION
Scale: 1" = 20'-0"

~ NOTES ~

1. Highway embankment material placed within these limits shall have a maximum dimension of 6 inches and shall be compacted to 95% of maximum density. Quantity to be included in highway estimate.
2. Unsuitable material shall be removed to the depths noted on the plans. No payment will be made for removal below these depths unless authorized writing by the Engineer after consultation with the Regional Soils Engineer. The excavation shall be backfilled with Item 203.21 unless otherwise specified.

For Sections A-A, B-B, C-C and D-D see Dwg. 6.

CONSTRUCTION PROCEDURE

The approach embankments for the West and East Abutments shall be built to the roadway subgrade, including the abutment area, and a one month waiting period shall be observed prior to excavating and constructing the abutments.

A two week waiting period shall be observed after constructing the Pier and both of the abutments before pouring the pedestals for these substructures to their final elevation. However, before observing this waiting period, the ground surface shall be completed to the roadway subgrade or to the finished ground line.

The Engineer shall set a grade stake at the end of each wingwall and at the station line to monitor the settlement at each approach embankment during the one month waiting period that has to be observed at each abutment. Readings on these grade stakes shall be taken at least twice a week and the information transmitted to the Soil Mechanics Bureau. After receiving this information, the Soil Mechanics Bureau shall advise the Deputy Chief Engineer (Structures) on whether any extra precautionary measures have to be taken due to excessive embankment settlement.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

EMBANKMENT SHEET

PROJ. ENG. G. Bierman | DATE MADE Aug. 2, 1971
BOARD Werner Lasser | DRAWING NO. 5 OF 33

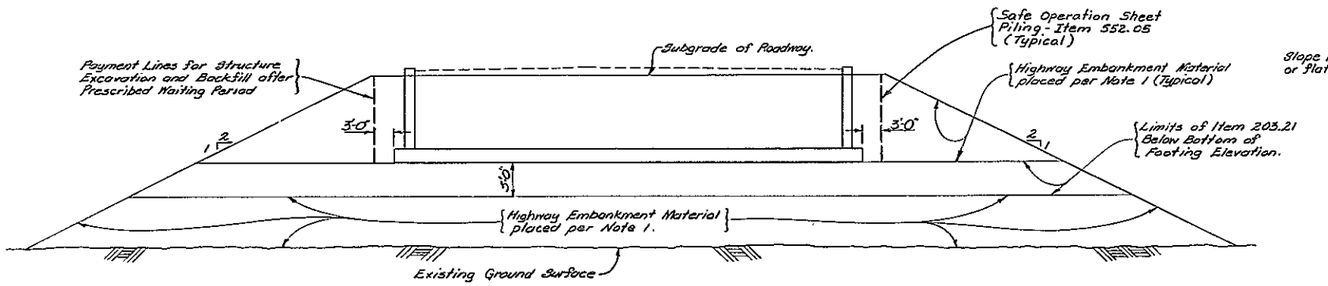
DETAILED BY C.K. McLaughlin 7/1/71 DETAIL CHECKED BY R. Cash
DESIGN CHECKED BY
DESIGNED BY
CO 178 11-70

D96243

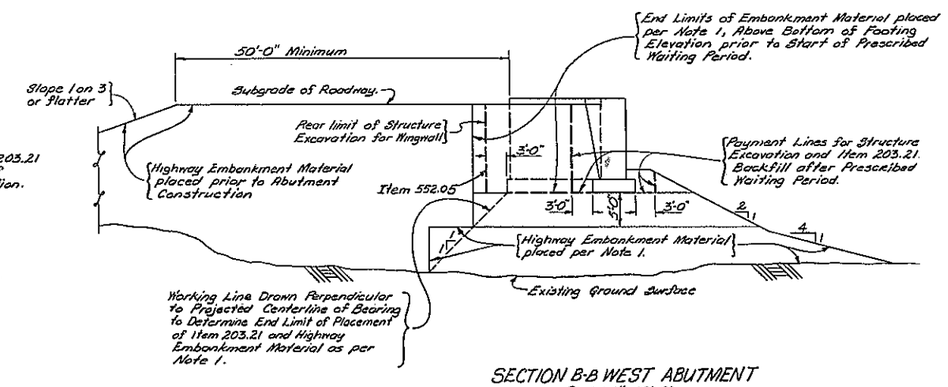
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	257	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

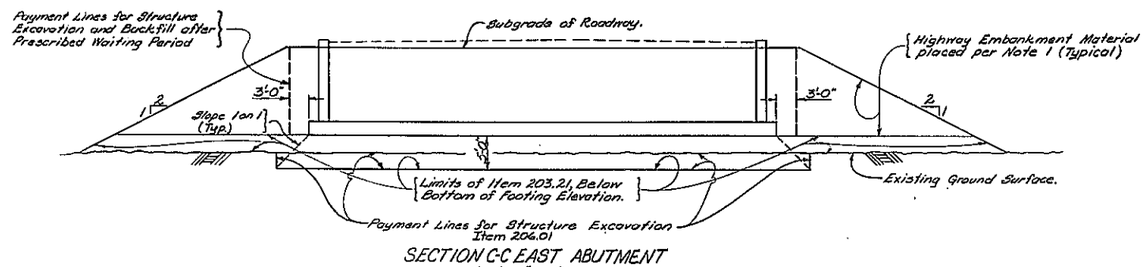
CAPITAL PROJECT IDENTIFICATION NO. 1357.04



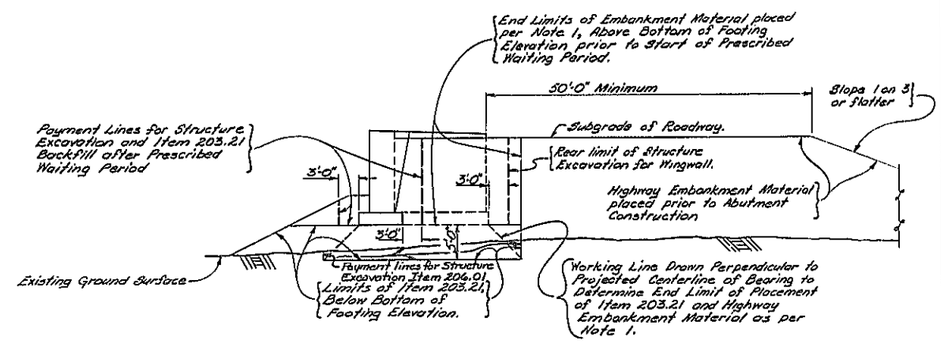
SECTION A-A WEST ABUTMENT
Scale: 1" = 10'-0"



SECTION B-B WEST ABUTMENT
Scale: 1" = 10'-0"



SECTION C-C EAST ABUTMENT
Scale: 1" = 10'-0"



SECTION D-D EAST ABUTMENT
Scale: 1" = 10'-0"

DESIGNED BY ____ DESIGN CHECKED BY ____ DETAILED BY Eric Johnson 7/13/77 DETAIL CHECKED BY R. Cuddy

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

EMBANKMENT-SECTIONS

PROJ. ENG. G. Fuhrman | DATE MADE Aug. 2, 1979
REVIEWED Dexter Walker | DRAWING NO. 6 OF 33

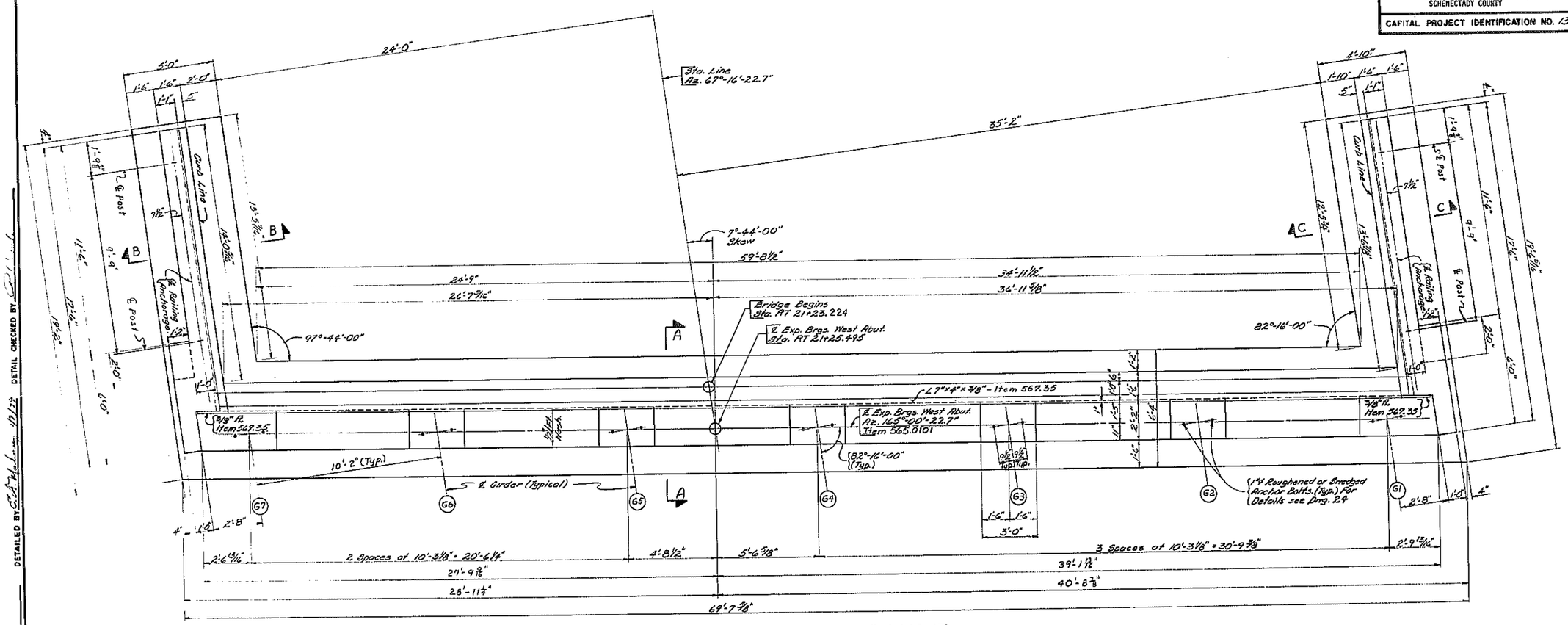
ED 370 11-70

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	258E1	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04



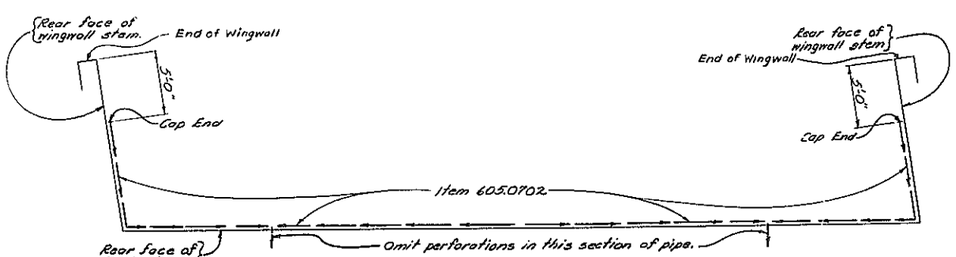
WEST ABUTMENT
Scale: 3/8" = 1'-0"

NOTES:
For Abutment Reinforcement see Drwg. 10
For Railing Details see Drwg. 30
For Railing Elevation see Drwg. 19
For Bearing Details see Drwg. 24
For Underdrain Filter Details see Drwg. 5
For Abutment Elevation see Drwg. 8
For Sections see Drwg. 9
For Design purposes the Foundation Pressure does not exceed 2½ tons per Sq. Ft.

CONCRETE & REINFORCEMENT TABLE			
POUR # & LOCATION	ITEM 555.01 CY.	ITEM 555.02 CY.	ITEM 556.0201 LB.
1-Footing	——	42.11	2084
2-Stem	——	46.25	2272
3-Backwall & Upper Wingwall	——	40.57	~~2516~~ 2469
4-Wingwall Overlays	.89	——	254
5-Header	.98	——	199
6-Pedestals	1.59	——	261

REVISION IN TABLES

ITEMS 556.0201



UNDERDRAIN PLAN & FLOW DIAGRAM
Scale: None

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

WEST ABUTMENT - PLAN

PROJ. ENG. G. F. Freeman
SQUAD Werner Carlson
DATE MADE Aug. 2, 1979
DRAWING NO. 7 OF 33

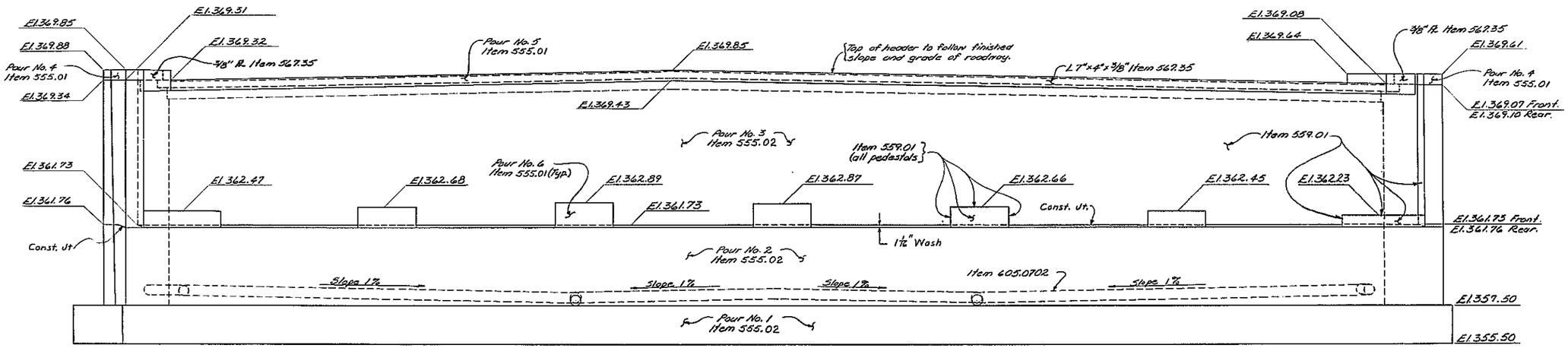
DESIGNED BY R. Cook
DESIGN CHECKED BY
DETAILED BY G.F. Freeman
DETAIL CHECKED BY

D96243

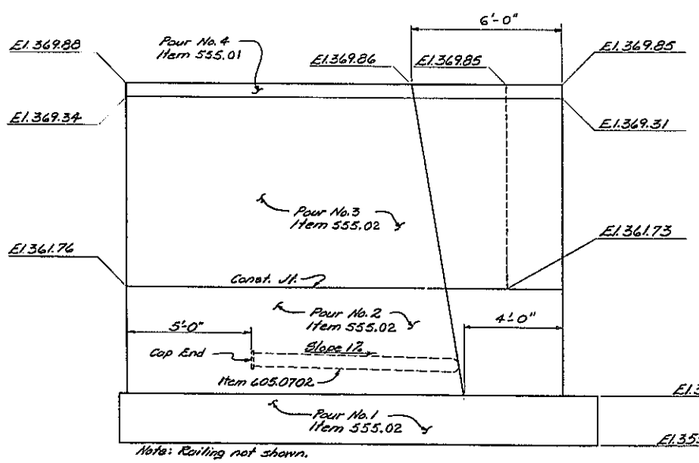
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	259	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

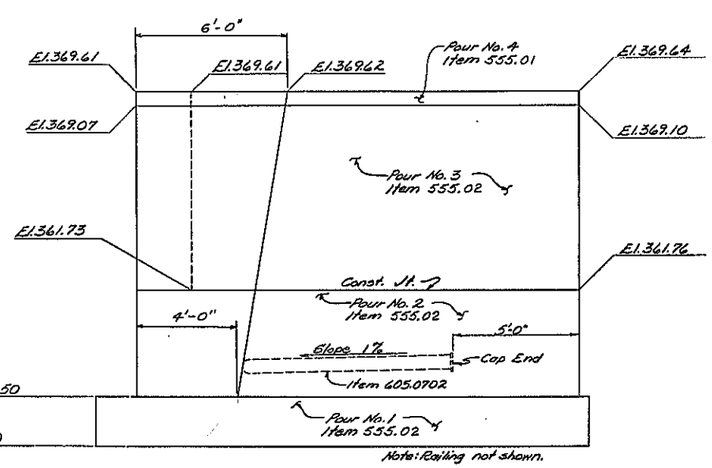
CAPITAL PROJECT IDENTIFICATION NO. 1357.04



WEST ABUTMENT - ELEVATION
Scale: 3/8" = 1'-0"



SOUTH WEST WINGWALL - ELEVATION
Scale: 3/8" = 1'-0"



NORTH WEST WINGWALL - ELEVATION
Scale: 3/8" = 1'-0"

For Notes see Drg. 7.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

WEST ABUTMENT - ELEVATION

PROJ. ENG. J. Bierman | DATE MADE Aug 2, 1979
SQUAD Warren Larson | DRAWING NO. 8 OF 38

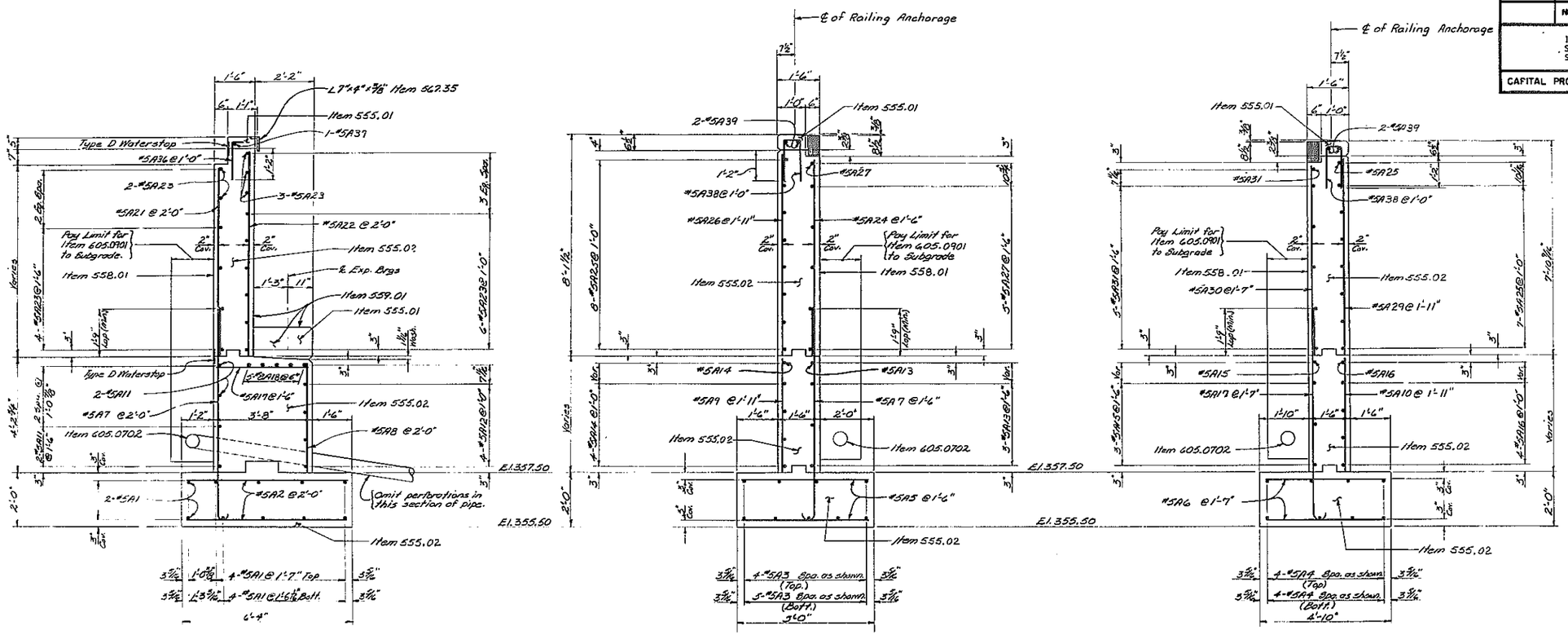
DESIGNED BY R. Cook DESIGN CHECKED BY DETAILED BY Ed Lebeau DETAIL CHECKED BY R. Cook

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	260	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04



For Notes see Dwg. 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

WEST ABUTMENT - SECTIONS

PROJ. ENG. G. Thurman — DATE MADE Aug. 2, 1979
SQUAD Wm. Olsen — DRAWING NO. 9 OF 33

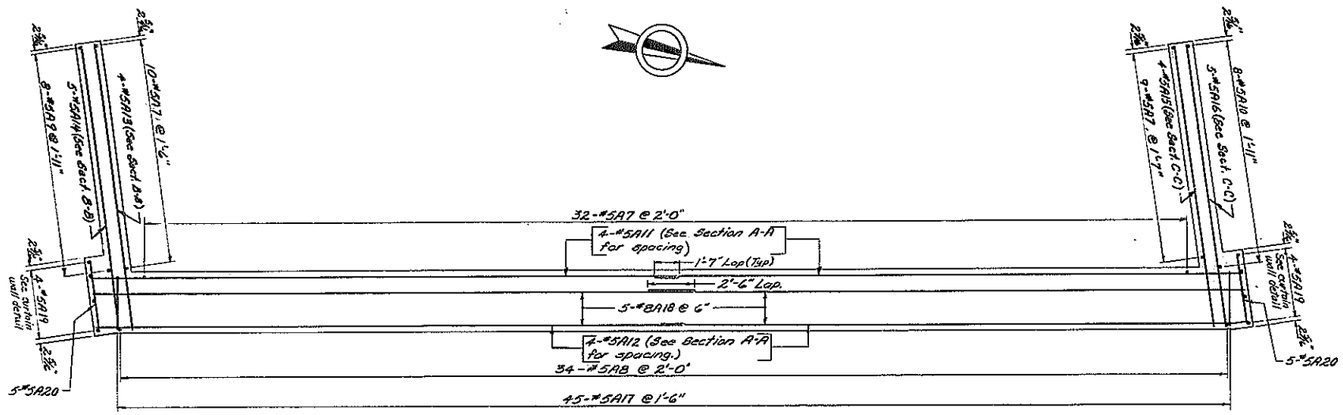
DESIGNED BY R. Cirelli — DESIGN CHECKED BY — DETAILED BY C. Hitchcock — DETAIL CHECKED BY R. Cirelli

D96243

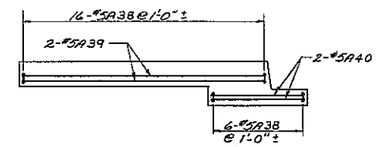
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	261	284

I 88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

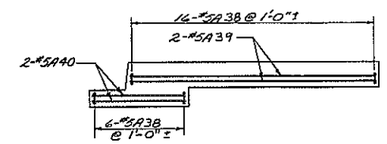
CAPITAL PROJECT IDENTIFICATION NO. 1337.04



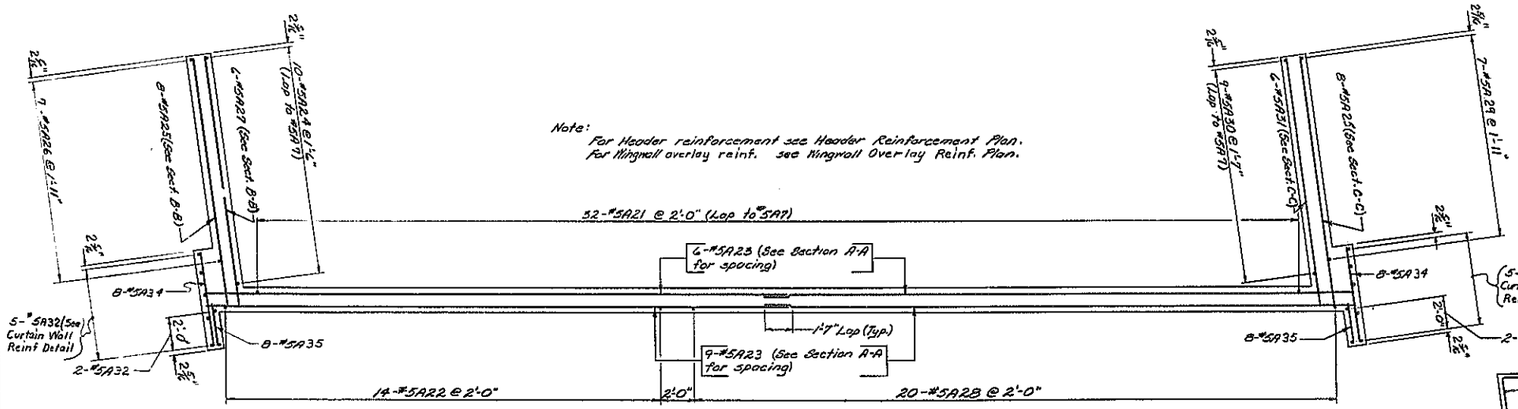
STEM REINF. PLAN - WEST ABUT.
Scale: 1/4" = 1'-0"



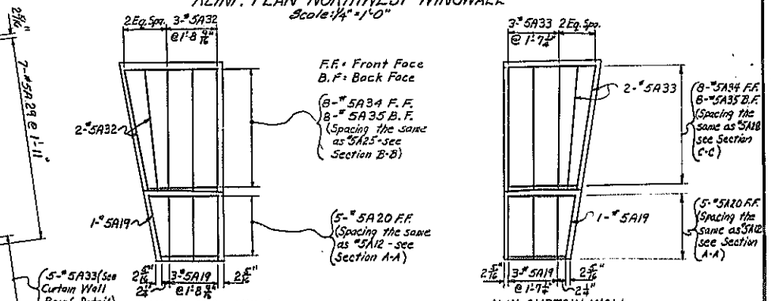
REINF. PLAN - SOUTHWEST WINGWALL
Scale: 1/4" = 1'-0"



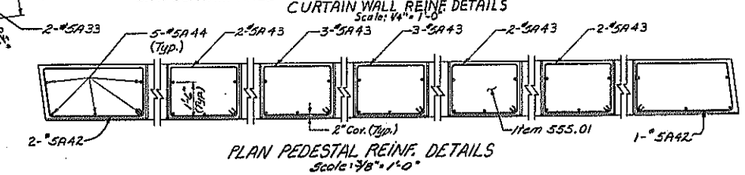
REINF. PLAN - NORTHWEST WINGWALL
Scale: 1/4" = 1'-0"



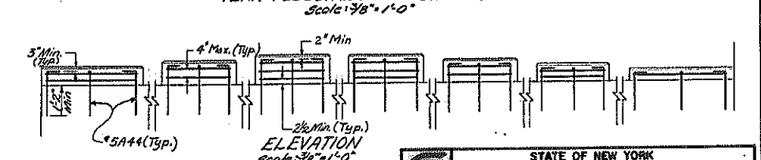
BACKWALL & UPPER WINGWALL REINFORCEMENT PLAN - WEST ABUT.
Scale: 1/4" = 1'-0"



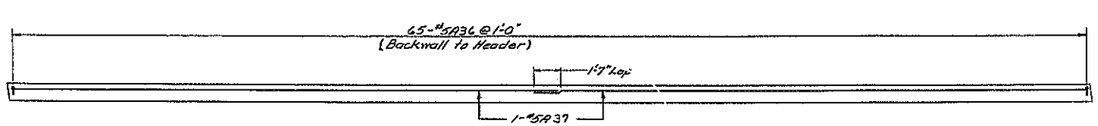
CURTAIN WALL REINF. DETAILS
Scale: 1/4" = 1'-0"



PLAN PEDESTAL REINF. DETAILS
Scale: 3/8" = 1'-0"



ELEVATION
Scale: 3/8" = 1'-0"



HEADER REINFORCEMENT - WEST ABUT.
Scale: 1/4" = 1'-0"

For Notes see Dwg. 7

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

WEST ABUTMENT - REINFORCEMENT

PROJ. ENG. G. Freeman | DATE MADE Aug. 2, 1979
SQUAD Alan Cass | DRAWING NO. 10 OF 33

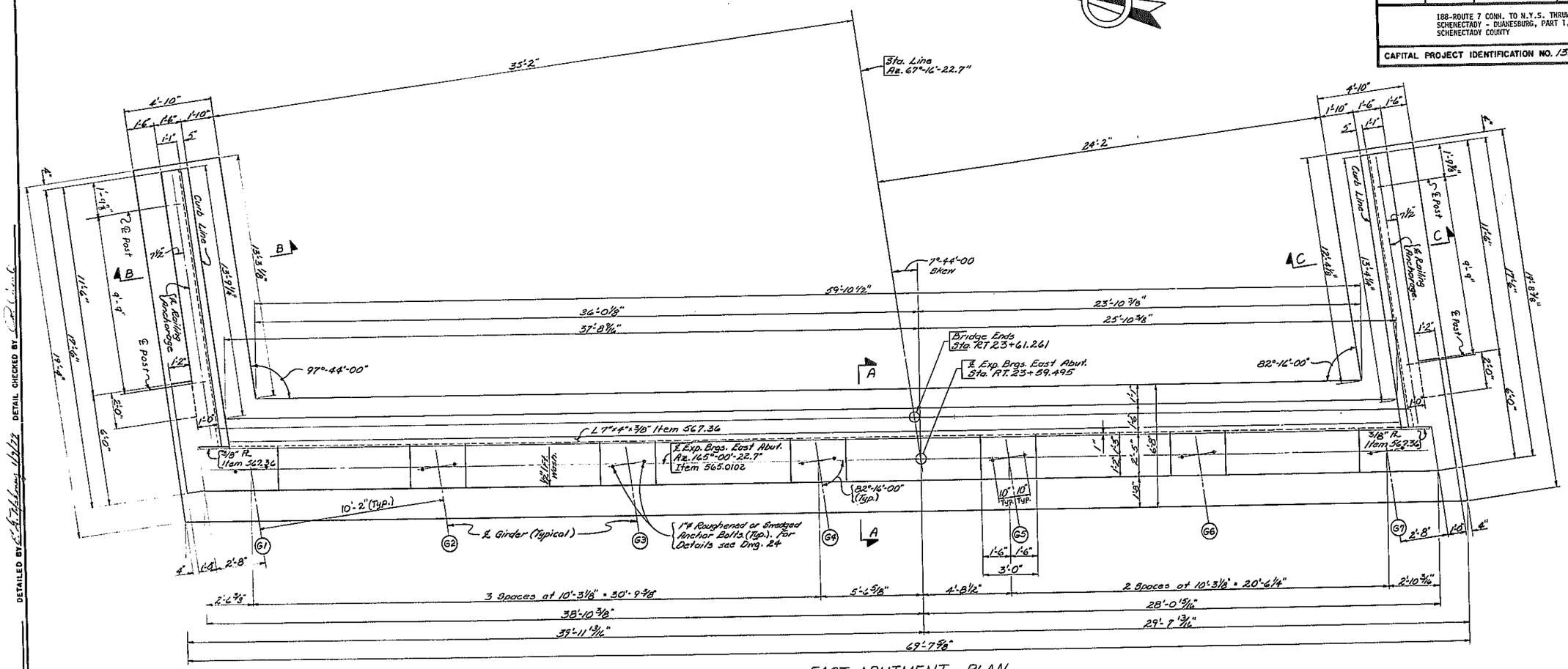
DETAILED BY C.F. Fabiano 11/29/79 DETAIL CHECKED BY R. Cirelli
DESIGN CHECKED BY
DESIGNED BY R. Cirelli

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	262(R)	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04



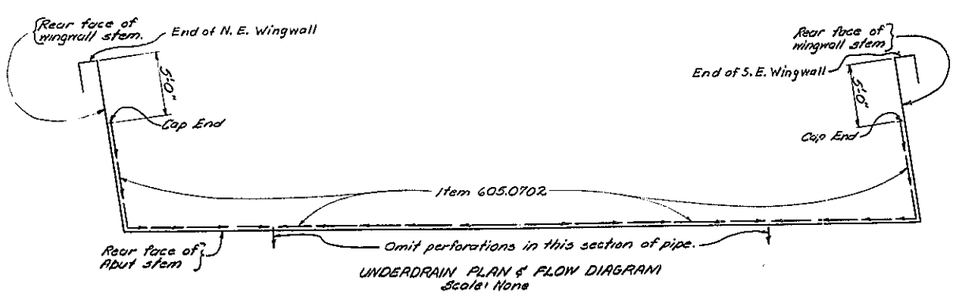
EAST ABUTMENT - PLAN
Scale: 3/8" = 1'-0"

NOTES:
For Abutment Reinforcement see Drng. 14
For Railing Details see Drng. 30
For Railing Elevation see Drng. 19
For Bearing Details see Drng. 24
For Underdrain Filter Details see Drng. 5
For Abutment Elevation see Drng. 12
For Sections see Drng. 13
For Design Purposes the Foundation pressure does not exceed 2 1/2 Tons per Sq. Ft.

CONCRETE & REINFORCEMENT TABLE			
POUR # & LOCATION	ITEM 555.01 C.Y.	ITEM 555.02 C.Y.	~~ITEM 555.02 LB.~~ ITEM 559.1201 LB.
1-Footing	——	43.55	2184 ✓
2-Stem	——	42.22	2272 ✓
3-Backwall & Upper Wingwall	——	42.47	~~2582~~ 2629
4-Wingwall Overlays	.89	——	253
5-Header	.98	——	199
6-Pedestals	1.80	——	268

REVISION IN TABLES

ITEM # 559.02.01



UNDERDRAIN PLAN & FLOW DIAGRAM
Scale: None

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS 7 AND 1
OVER N.Y.S. THRUWAY AND RAMP 1

EAST ABUTMENT - PLAN

PROJ. ENG. J. Ehrenman
SQUAD Oliver Olsen
DATE MADE Aug 2, 1979
DRAWING NO. 11 OF 33

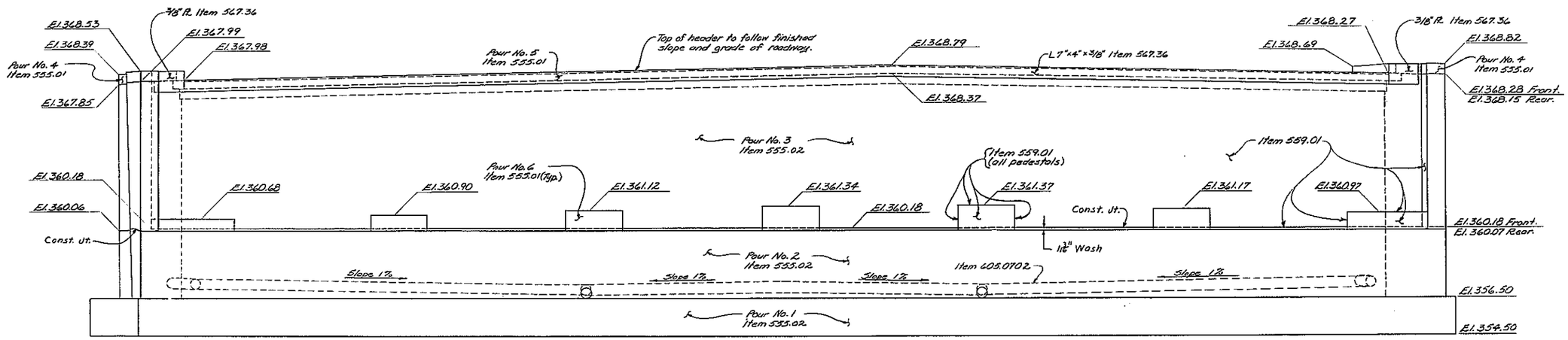
DESIGNED BY R. Chang
DESIGN CHECKED BY
DETAILED BY L. A. Fabiano
DETAIL CHECKED BY

D96243

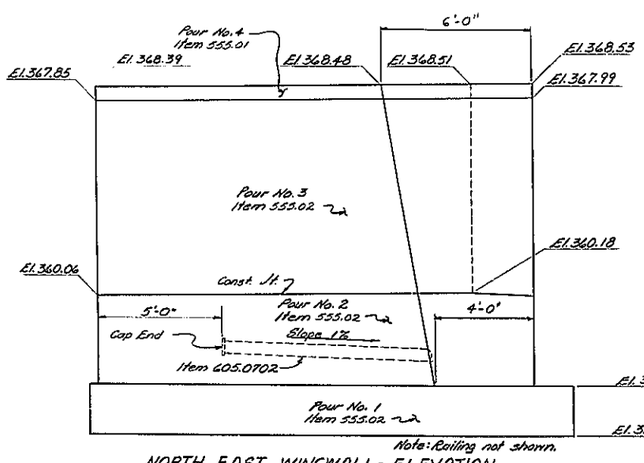
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	263	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART I, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04

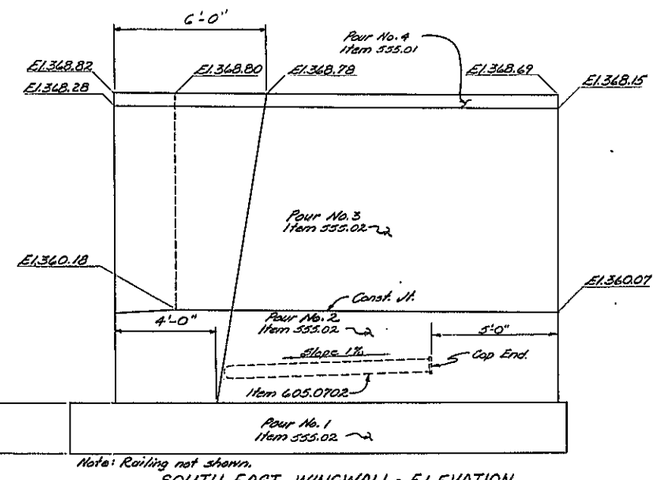


EAST ABUTMENT - ELEVATION
Scale: 3/8" = 1'-0"



Note: Railing not shown.

NORTH EAST WINGWALL - ELEVATION
Scale: 3/8" = 1'-0"



Note: Railing not shown.

SOUTH EAST WINGWALL - ELEVATION
Scale: 3/8" = 1'-0"

For Notes see Drg. 11

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

EAST ABUTMENT - ELEVATION

PROJ. ENG. G. Freeman DATE MADE Aug 2, 1979
BOARD [illegible] DRAWING NO. 12 OF 33

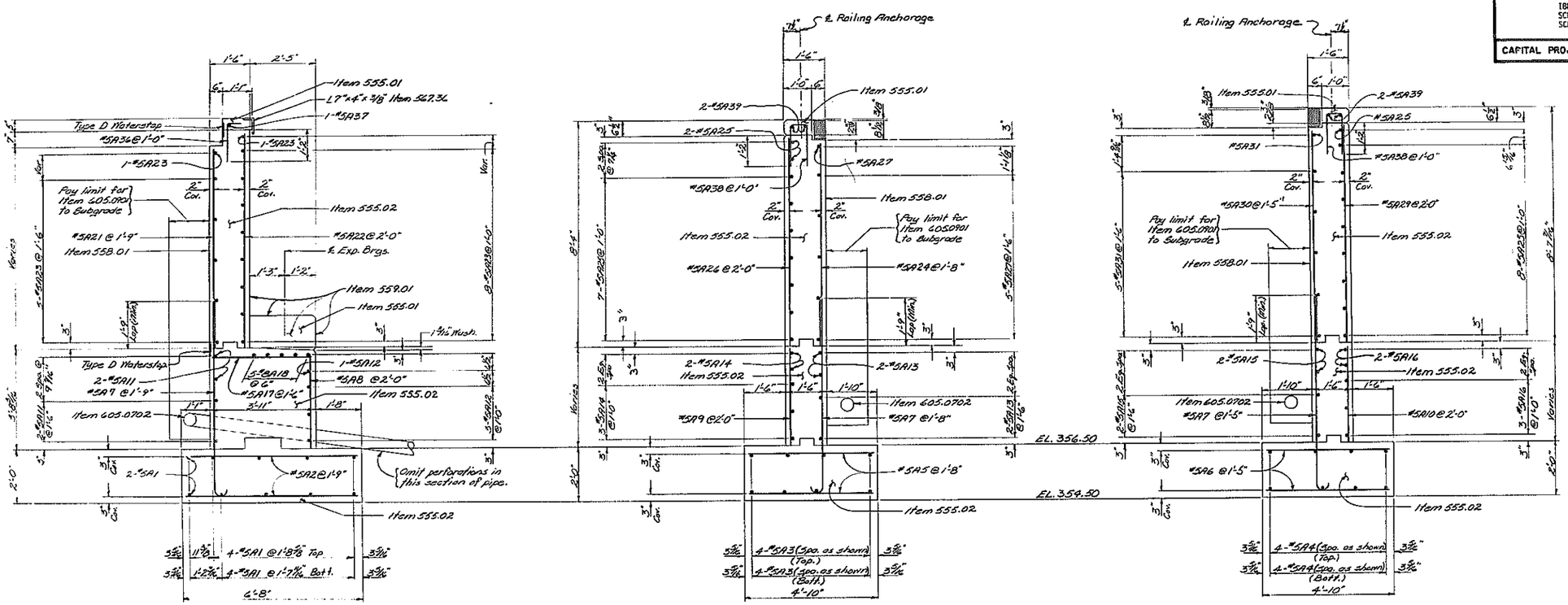
DESIGNED BY R. Crosby DESIGN CHECKED BY ____ DETAILED BY E.B. Delaney 10/1/72 DETAIL CHECKED BY R. Crosby

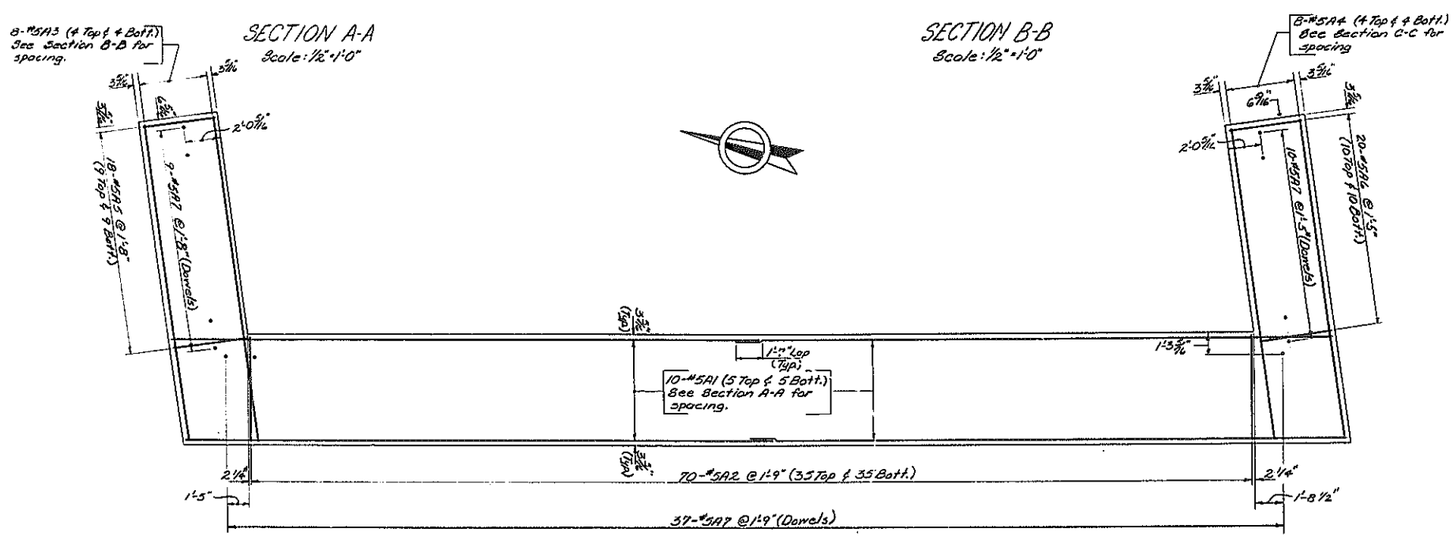
D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	264	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04





For Notes see Dwg. 11

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

EAST ABUTMENT SECTIONS

PROJ. ENG. G. Fehrenbach | DATE MADE Aug. 2, 1979
SQUAD Nam-Nolan | DRAWING NO. 13 OF 33

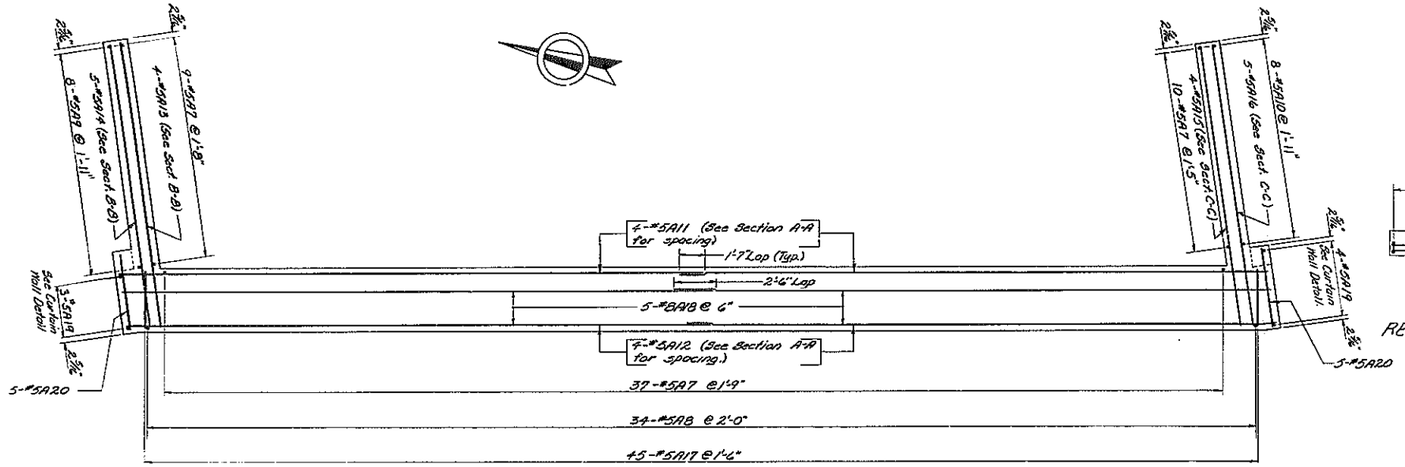
DESIGNED BY R. Cook DESIGN CHECKED BY DETAILED BY G.H. Fehrenbach 11/30/79 DETAIL CHECKED BY R. Cook

D96243

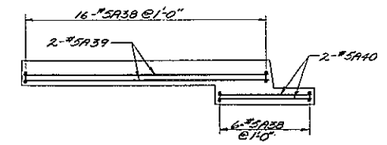
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	265	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

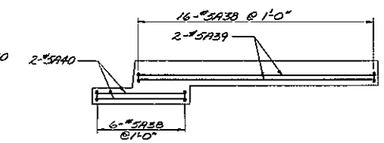
CAPITAL PROJECT IDENTIFICATION NO. 1357.04



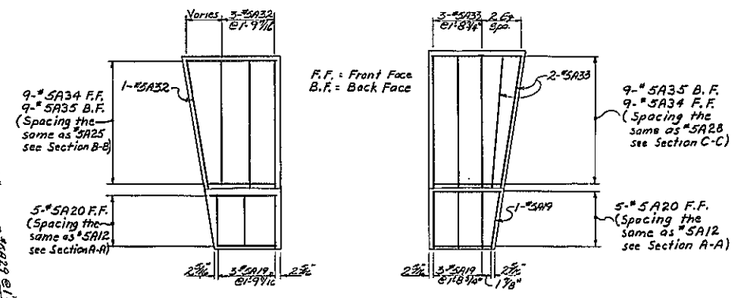
STEM REINF. PLAN - EAST ABUT.
Scale: 1/4" = 1'-0"



REINF. PLAN - NORTHEAST WINGWALL
Scale: 1/4" = 1'-0"

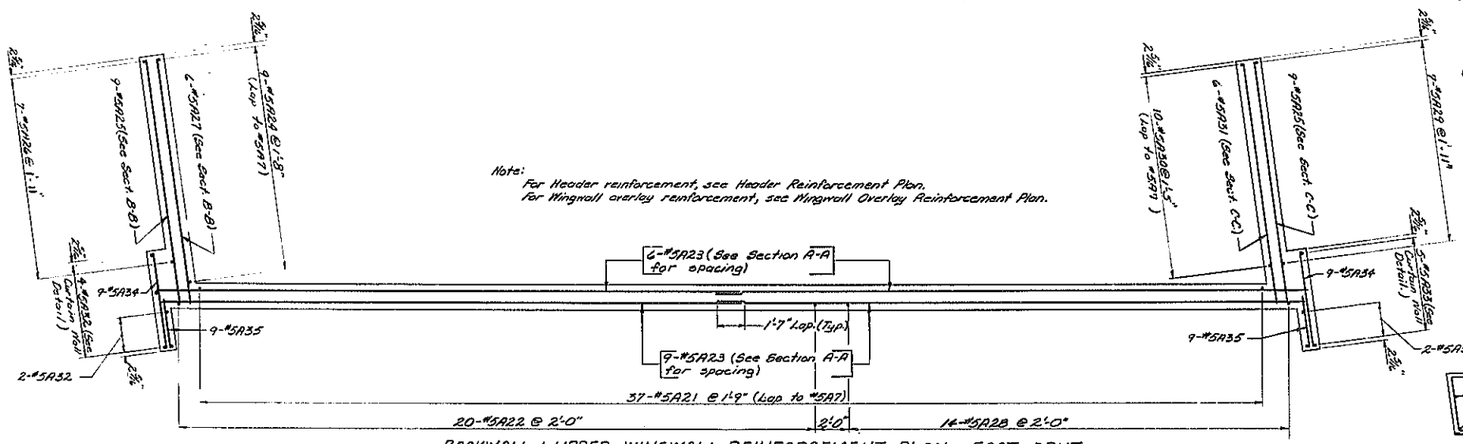


REINF. PLAN - SOUTHEAST WINGWALL
Scale: 1/4" = 1'-0"

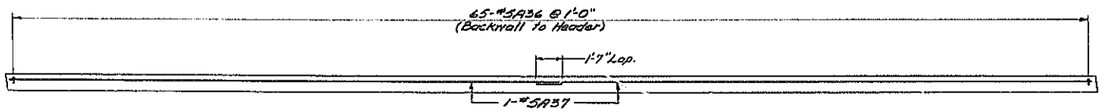


N.E. CURTAIN WALL S.E. CURTAIN WALL
CURTAIN WALL REINF. DETAILS
Scale: 1/4" = 1'-0"

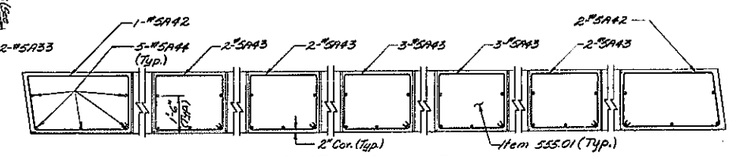
Note:
For Header reinforcement, see Header Reinforcement Plan.
For Wingwall overlay reinforcement, see Wingwall Overlay Reinforcement Plan.



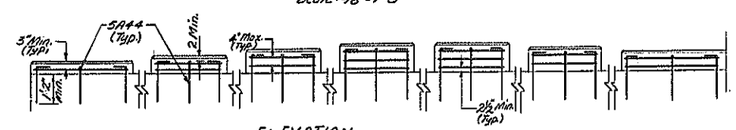
BACKWALL & UPPER WINGWALL REINFORCEMENT PLAN - EAST ABUT.
Scale: 1/4" = 1'-0"



HEADER REINFORCEMENT - EAST ABUT.
Scale: 1/4" = 1'-0"



PLAN PEDESTAL REINF. DETAILS
Scale: 3/8" = 1'-0"



ELEVATION
Scale: 3/8" = 1'-0"

For Notes see Dwg. 11

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

EAST ABUTMENT - REINFORCEMENT

PROJ. ENG. G. F. Lemmon — DATE MADE Aug 2, 1979
SQUAD (A) Hector Cabrera — DRAWING NO. 14 OF 33

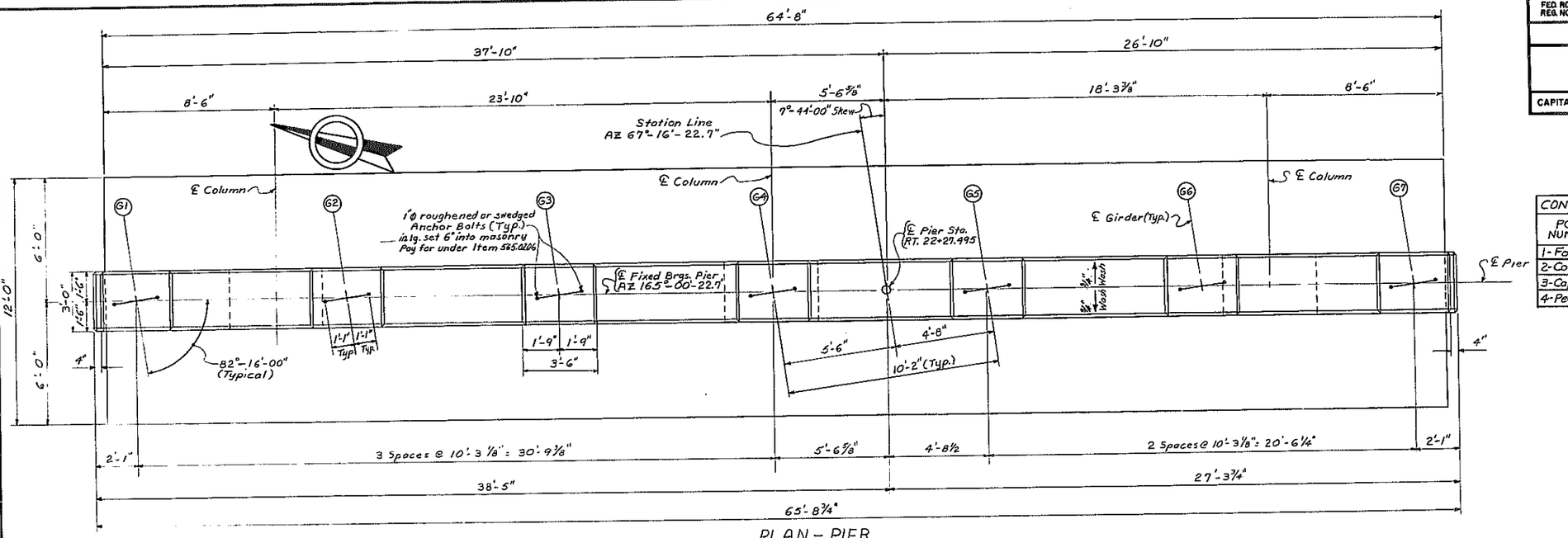
DESIGNED BY R. Cicale DESIGN CHECKED BY ____ DETAILED BY C. D. Mahoney 4/79 DETAIL CHECKED BY R. Cicale

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	1-88-2(10)	266R1	284

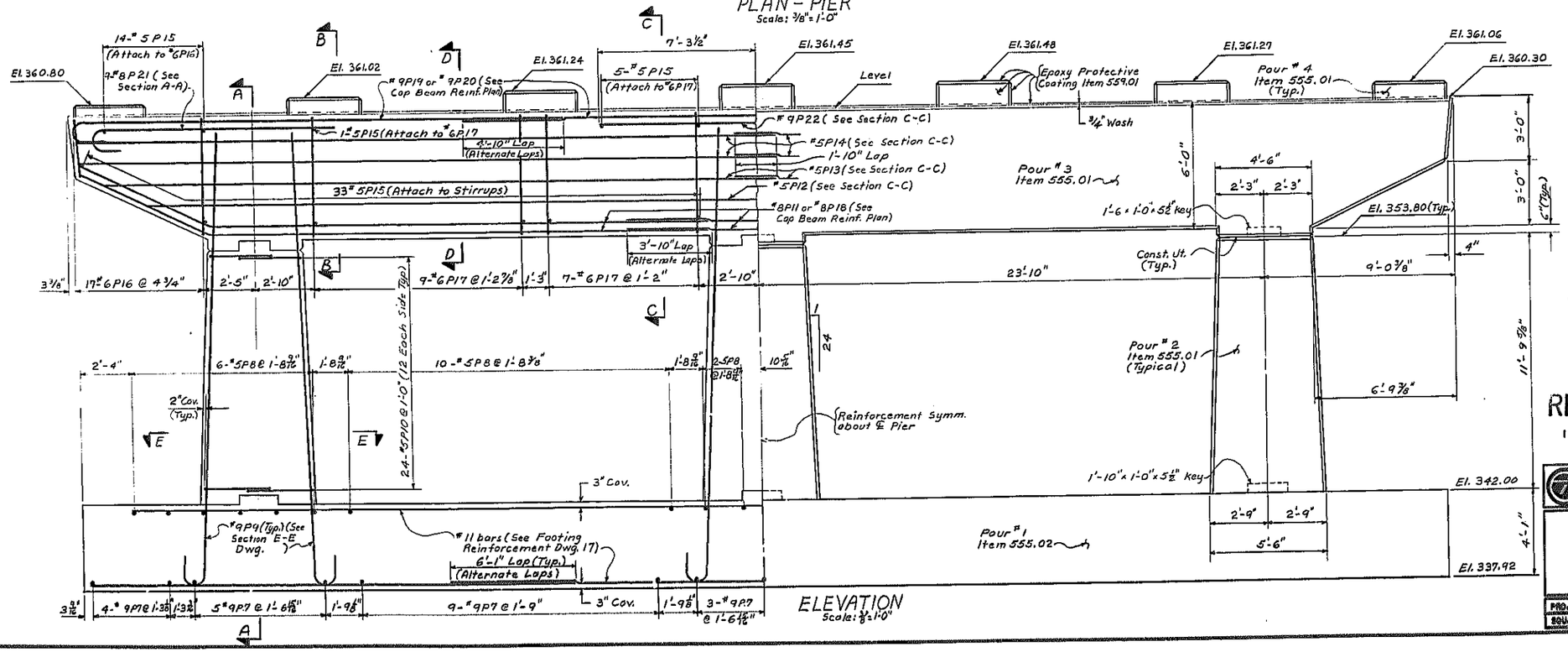
188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04



PLAN - PIER
Scale: ⅜" = 1'-0"

CONCRETE & REINFORCEMENT TABLE			
POUR NUMBER	ITEM 555.01	ITEM 555.02	ITEM ~~555.0201~~ ~~556.03.01~~
1-Footing	—	117.55	~~10,333 Lbs.~~ 18917 Lbs.
2-Columns	19.67	—	964 Lbs.
3-Cap Beam	43.74	—	~~9,996~~ Lbs.
4-Pedestals	2.42	—	407 Lbs.



ELEVATION
Scale: ⅜" = 1'-0"

Notes:
For Sections A-A, B-B, C-C & D-D see Dwg. 16.
For reinforcement see Dwg. 17.
For design purposes the foundation pressure does not exceed 2½ tons per square feet.
For Bearing Details see Dwg. 19.

REVISION IN TABLES
ITEMS 556.0201

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

PIER - PLAN AND ELEVATION

PROJ. ENG. G. P. Zimmerman
SQUAD Werner Chella
DATE MADE 11/29/79
DRAWING NO. 15 OF 33

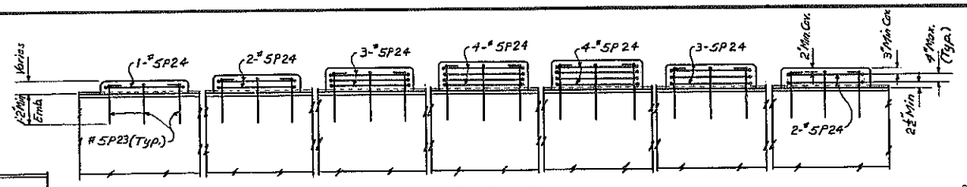
DETAILED BY
DETAIL CHECKED BY
DESIGN CHECKED BY
DESIGNED BY

D96243

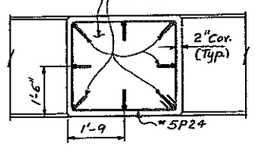
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	267	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - QUAHESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

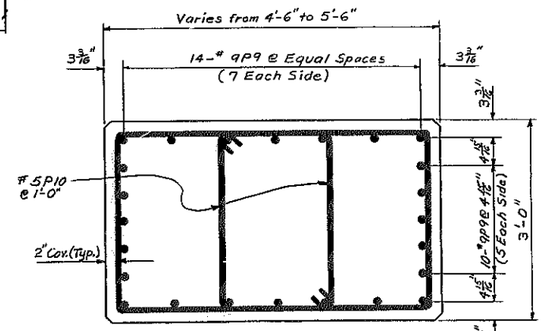
CAPITAL PROJECT IDENTIFICATION NO. 1357.04



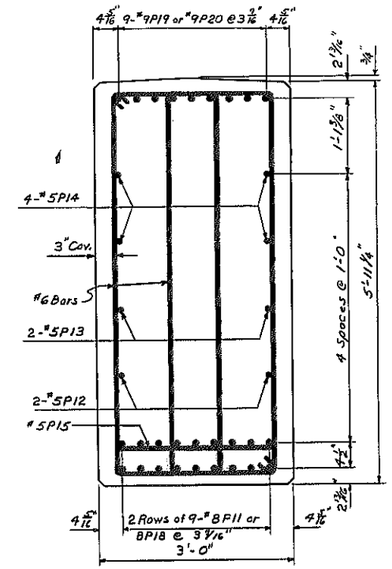
PEDESTAL ELEVATION
Scale: 3/8" = 1'-0"



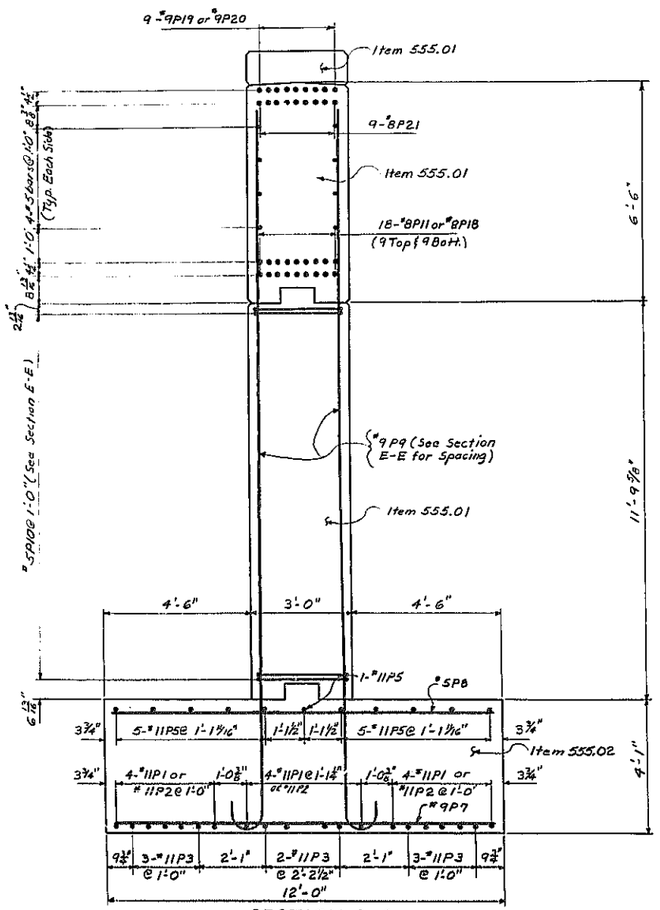
TYPICAL PEDESTAL PLAN
Scale: 1/2" = 1'-0"



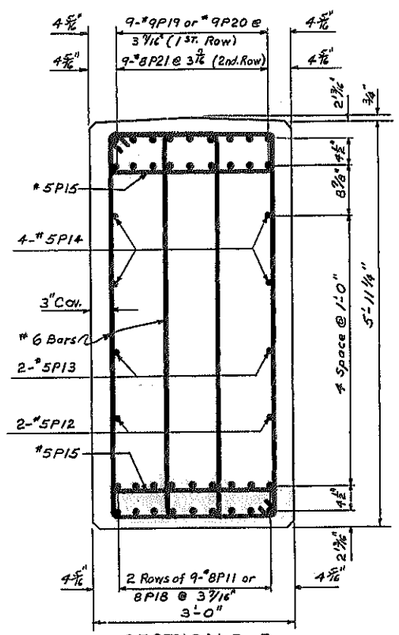
SECTION E-E
Scale: 1" = 1'-0"



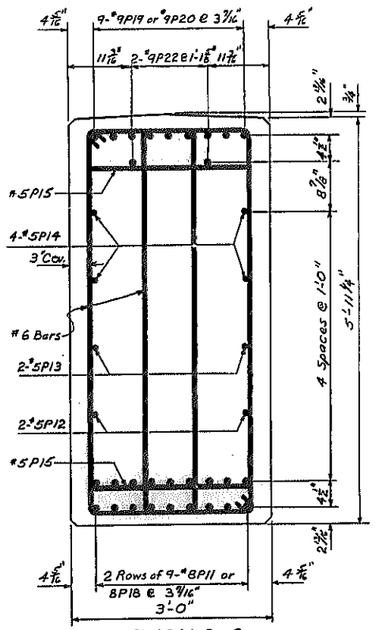
SECTION D-D
Scale: 1" = 1'-0"



SECTION A-A
Scale: 1/2" = 1'-0"



SECTION B-B
Scale: 1" = 1'-0"



SECTION C-C
Scale: 1" = 1'-0"

For Notes See Drawing 15.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

PIER - SECTIONS

PROJ. ENG. G. Freeman | DATE MADE 2/5/79
SQUAD Dennis Dassen | DRAWING NO. 16 OF 33

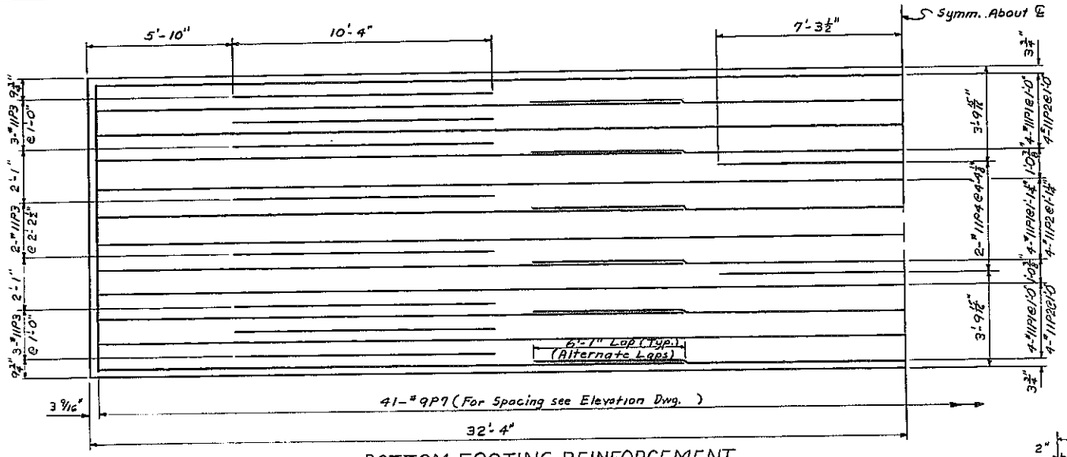
DETAILED BY Tri-Nabb DETAIL CHECKED BY
DESIGNED BY DESIGN CHECKED BY

D96243

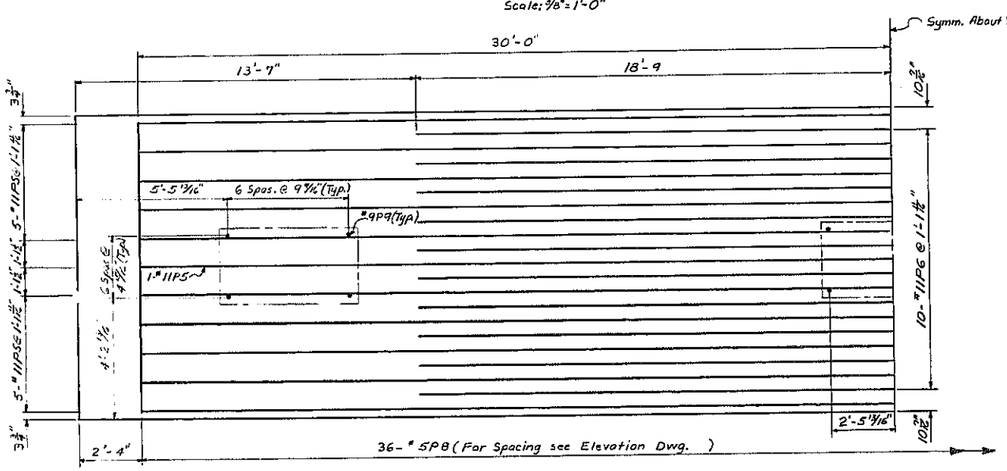
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	268 R1	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

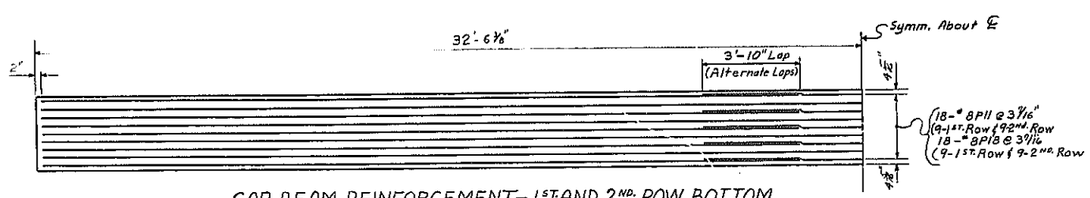
CAPITAL PROJECT IDENTIFICATION NO. 1357.04



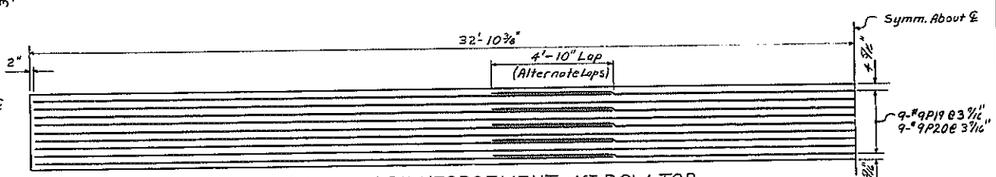
BOTTOM FOOTING REINFORCEMENT
Scale: ⅜" = 1'-0"



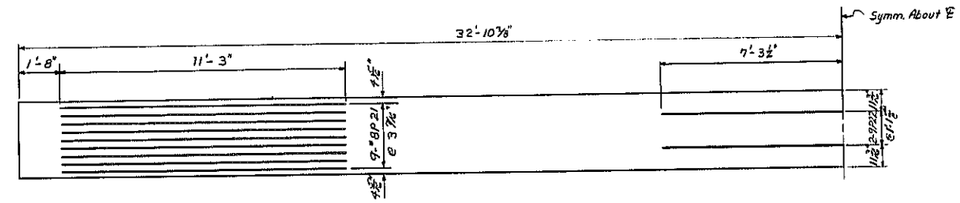
TOP FOOTING REINFORCEMENT
Scale: ⅜" = 1'-0"



CAP BEAM REINFORCEMENT-1ST. AND 2ND. ROW BOTTOM
Scale: ⅜" = 1'-0"



CAP BEAM REINFORCEMENT-1ST ROW TOP
Scale: ⅜" = 1'-0"



CAP BEAM REINFORCEMENT-2ND ROW TOP
Scale: ⅜" = 1'-0"

NOTE

TOP MAT BARS (11 P 5) EXTENDED TO END OF FOOTING (A.O.S.E.) TO MATCH BOTTOM MAT.

For Notes See Drawing 15.

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

PIER - REINFORCEMENT

PROJ. ENG. G. Gruenwald	DATE MADE 2-6-79
SQUAD Werner Clasen	DRAWING NO. 17 OF 33

DETAILED BY F. J. Wood DETAIL CHECKED BY

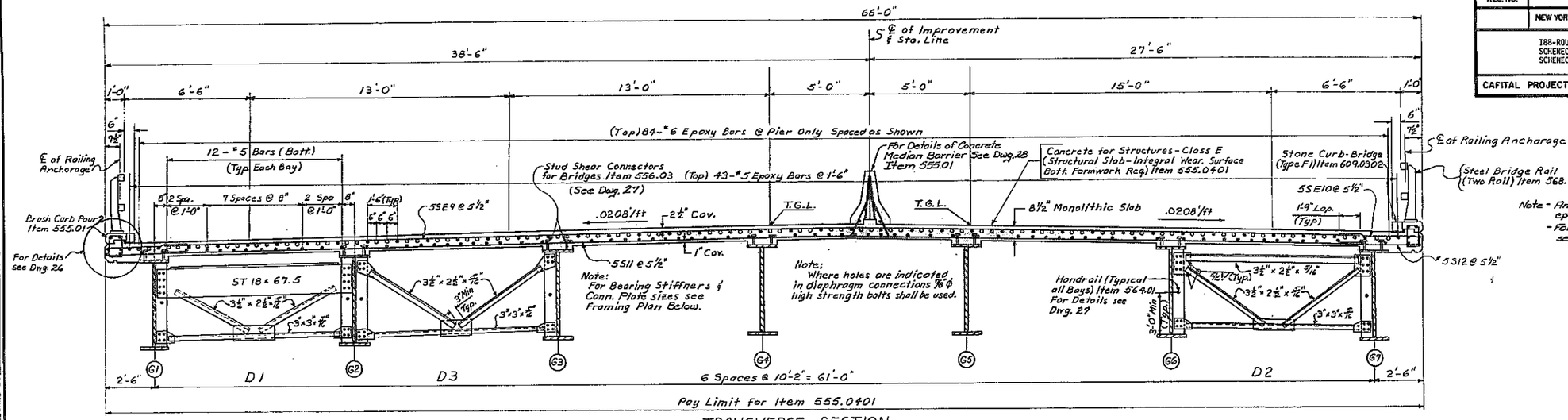
DESIGNED BY R. Clark DESIGN CHECKED BY

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	269	284

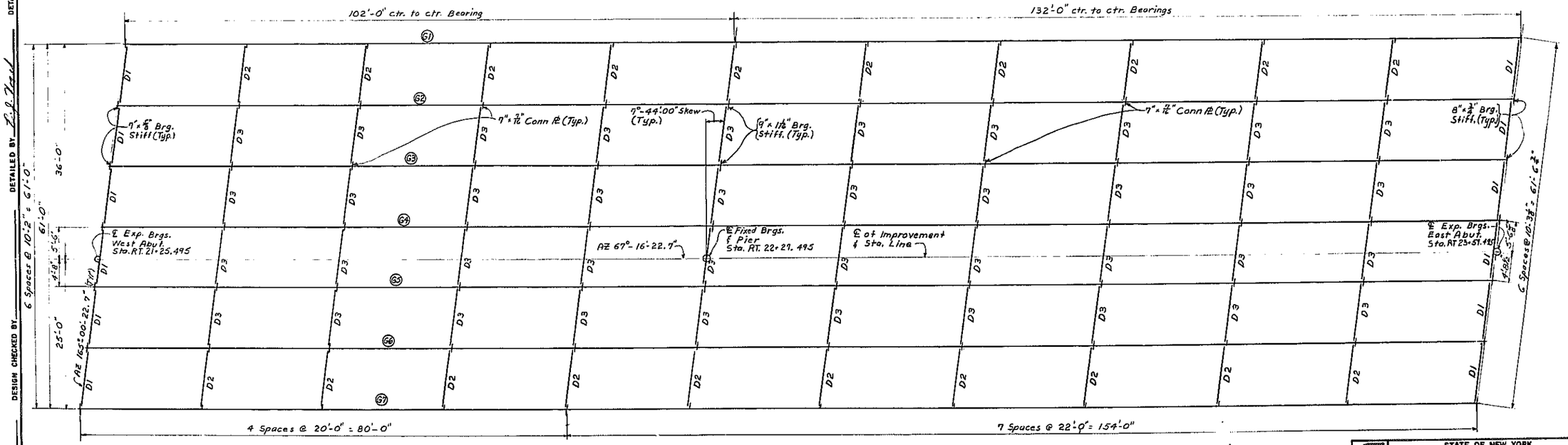
I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04



Note - An E in the bar mark means epoxy coated.
- For details of the median barrier see dwg. 28.

TRANSVERSE SECTION
Scale: 3/8" = 1'-0"



FRAMING PLAN
Scale 1/8" = 1'-0"

Note - All steel including detail steel to be unpainted ASTM A588.

NOTES FOR DIAPHRAGM DETAILS

Snipe the outstanding leg of all angles and plates 1" minimum.

Tapered or flat shim plates may be used in the connection between skewed diaphragms and the bearing stiffeners or stiffener connection plates. Variable thicknesses of shim plates may be used. The minimum thickness of shim plate shall be 1/8" with a maximum number of three shim plates permitted at any connection. The total thickness of all shim plates used at any connection shall not exceed 1". Shim plates shall have the dimensions of the faying surface. The shim material shall conform to ASTM Designation A36, except that on unpainted structures, the shim material shall conform to ASTM Designation A588. No additional payment will be made for furnishing and placing the shim plates.

Where holes are indicated, connections shall be 7/8" diameter high-strength bolts.

Cross frames may be fabricated to fit the girders in their erected position and cambered shape, but deflected vertically under the dead load of the steel work only.

The Contractor may place diaphragms on either side of the bearing stiffeners or stiffener connection plates as necessary to correct alignment provided there will be no inteference with other structural details.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

TRANSVERSE SECTION AND FRAMING PLAN

PROJ. ENG. A. Merryman | DATE MADE Aug 2, 1979
SQUAD Wenn Chasten | DRAWING NO. 18 OF 33

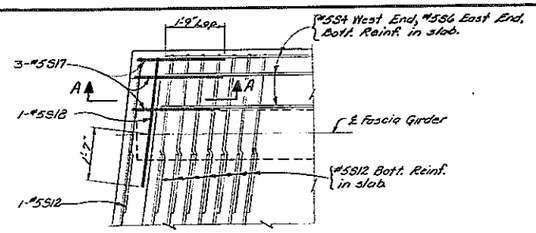
DETAIL CHECKED BY
DETAILED BY
DESIGN CHECKED BY
DESIGNED BY

D96243

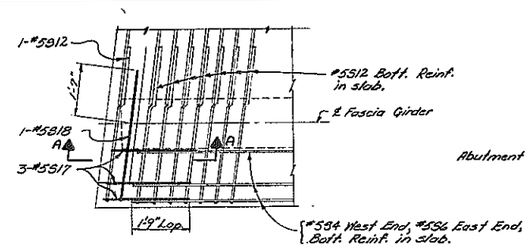
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	270	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

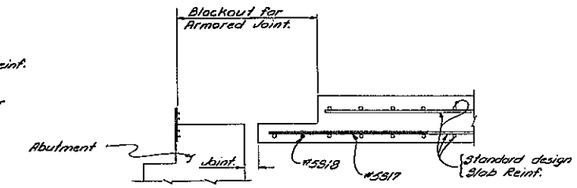
CAPITAL PROJECT IDENTIFICATION NO. 1357.04



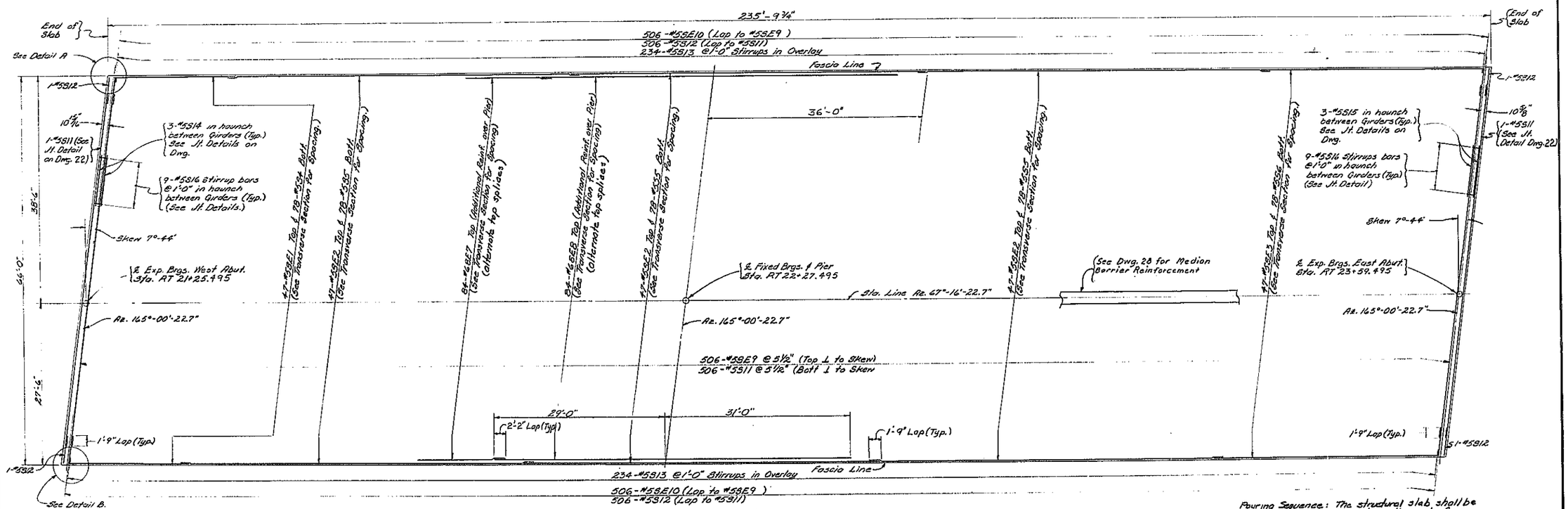
DETAIL A - WEST ABUT.
(East Abut. Similar)
Scale: 1/2" = 1'-0"



DETAIL B - WEST ABUT.
(East Abut. Similar)
Scale: 1/2" = 1'-0"

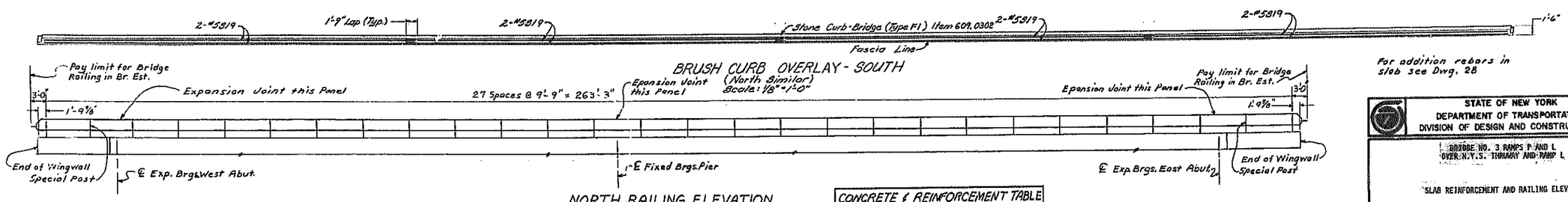


SECTION A-A
Scale: 1" = 1'-0"



SLAB REINFORCEMENT PLAN
Scale: 1/8" = 1'-0"

Pouring Sequence: The structural slab shall be poured continuously from abutment to abutment.



BRUSH CURB OVERLAY - SOUTH
(North Similar)
Scale: 1/8" = 1'-0"

For addition rebars in slab see Dwg. 28

NORTH RAILING ELEVATION
(SOUTH RAILING SIMILAR)
N.T.S.

CONCRETE & REINFORCEMENT TABLE		
556.0201 lbs.	556.0202 lbs.	555.0401 S.F.
60082	62049	18590

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRWAY AND RAMP L

SLAB REINFORCEMENT AND RAILING ELEVATION

PROJ. ENG. A. Grimmer — DATE MADE Aug 2, 1979
SUPVD. Werner Dallen — DRAWING NO. 19 OF 33

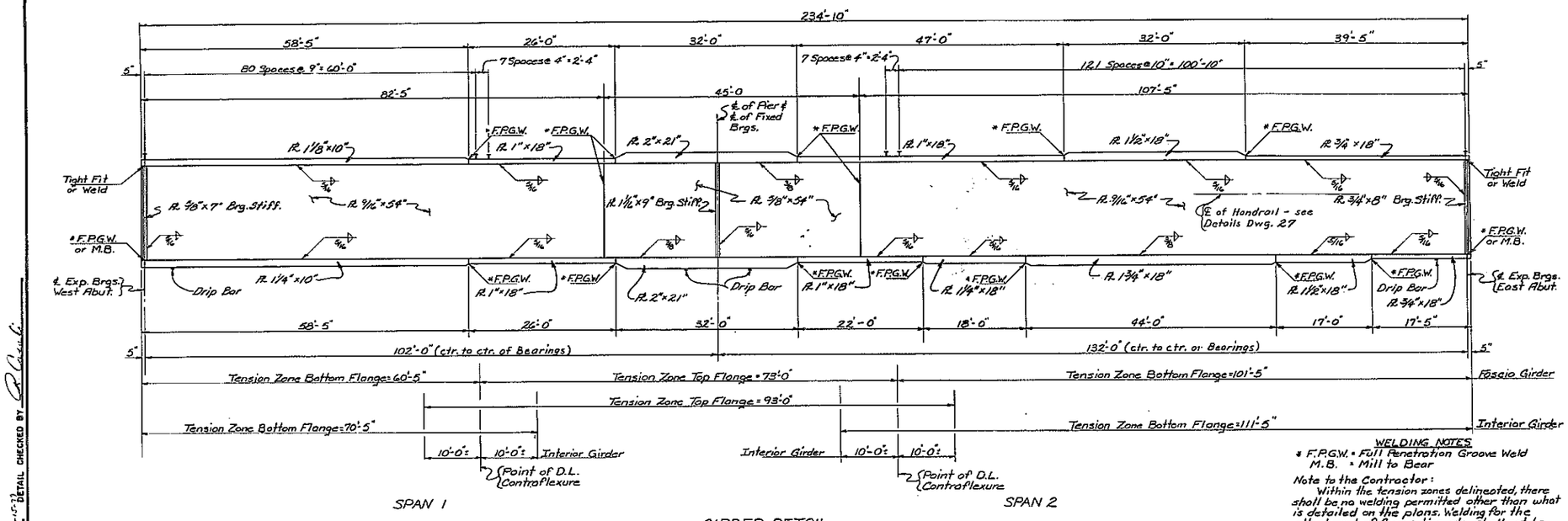
DESIGNED BY R. Ciarlo — DESIGN CHECKED BY — DETAILED BY E. Ciarlo — DETAIL CHECKED BY R. Ciarlo 10-18-78

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	271	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04.



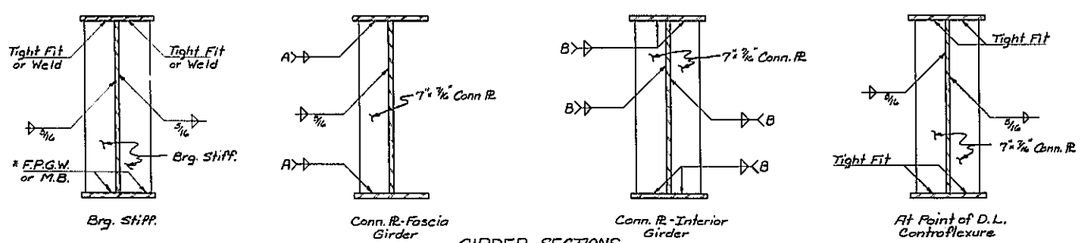
GIRDER DETAIL
Not to Scale

WELDING NOTES
* F.P.G.W. = Full Penetration Groove Weld
M.B. = Mill to Bear

Note to the Contractor:
Within the tension zones delineated, there shall be no welding permitted other than what is detailed on the plans. Welding for the attachment of forms, ties, etc. shall not be permitted.

DESIGN LOAD TABLE/GIRDER

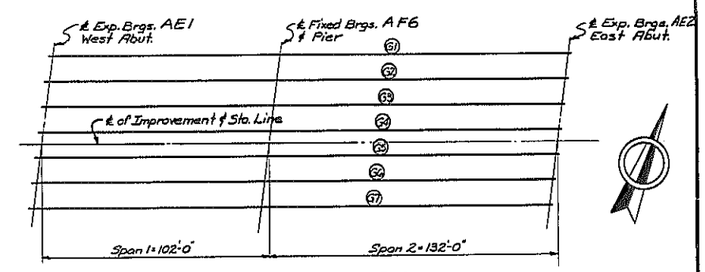
	UNIT	KIPS/FT
D.L.	SLAB	1.081
	HAUNCH	0.045
	GIRDER	0.253
	S.I.P. FORMS	0.163
	DIAPHRAGMS	0.030
	TOTAL	1.572
S.D.L.	SAFETYWALK	0.032
	RAILING	0.009
	FUTURE W.S.	0.203
	FUTURE PARAPET	0.214
	TOTAL	0.458



GIRDER SECTIONS
Not to Scale

Welding Note "A"
No welding of stiffeners or connection plates to tension flanges. Plates shall be "tight fit".

Welding Note "B"
All connection plates used in pairs shall be welded to the web and be placed point tight against both flanges. This may be accomplished by cutting the connection plates ⅛" short and then placing the connection plate tightly against the tension flange and welding the opposite end to the compression flange. Fitted connection plates shall not be driven in place with sufficient force to distort the flange, web or connection plates.



GIRDER LAYOUT PLAN
Not to Scale

Note:
For Drip Bar Detail see Dwg. 27

Notes:
For Camber Table see Dwg. 21
For Haunch Table see Dwg. 21
For Handrail Detail see Dwg. 27
For Stud Shear Connector Details see Dwg. 25
For Stay-in-Place Form Details see Dwg. 27
For Bottom Flange Taper Detail see Dwg. 27
All steel to be unpainted ASTM A588.
For Additional Notes see Dwg. 18

MOMENT & SHEAR TABLE

GIRDERS 1 THRU 7		℄ BRGS. WEST ABUTMENT	0.1L1	0.2L1	0.3L1	0.4L1	0.5L1	0.6L1	0.7L1	0.8L1	0.9L1	℄ BRGS. PIER	0.1L2	0.2L2	0.3L2	0.4L2	0.5L2	0.6L2	0.7L2	0.8L2	0.9L2	℄ BRGS. EAST ABUTMENT
D.L.	MOMENT	0	390	624	701	622	387	-5	-556	-1268	-2149	-3208	-1638	-357	653	1392	1858	2040	1941	1564	914	0
	SHEAR	45.9	30.6	15.3	0	-15.4	-30.7	-46.2	-62.0	-77.7	-95.1	112.6 / 190.3	107.6	86.8	66.3	45.7	24.6	3.2	-18.2	-38.9	-59.3	-79.3
S.D.L.	MOMENT	0	132	216	252	241	182	75	-79	-281	-531	-828	-386	-24	258	461	583	626	589	473	276	0
	SHEAR	15.2	10.6	5.9	1.2	-3.4	-8.1	-12.8	-17.5	-22.1	-26.8	31.5 / 36.5	30.5	24.4	18.4	12.3	6.3	0.2	-5.8	-11.9	-17.9	-24.0
L.L.(+)	MOMENT	0	634	1070	1320	1425	1396	1242	962	595	243	0	289	835	1344	1711	1906	1932	1773	1422	844	0
	SHEAR	63.5	62.7	53.4	44.2	35.3	26.8	19.0	11.9	6.4	2.7	0.0 / 75.9	74.3	65.8	58.6	50.8	42.3	33.3	23.7	13.8	8.2	6.4
L.L.(-)	MOMENT	0	-95	-191	-286	-382	-477	-573	-668	-763	-1060	-1625	-822	-624	-546	-468	-390	-312	-234	-156	-78	0
	SHEAR	-11.2	-11.9	-17.2	-23.4	-32.4	-41.9	-50.7	-58.8	-65.8	-71.7	-69.3 / 0.0	-2.6	-6.6	-15.2	-20.8	-28.9	-37.4	-46.0	-54.9	-63.8	-64.3

L.L. Moments and Shears include impact – Both spans.
Moments are expressed as Foot Kips.
Shears are expressed as Kips.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

GIRDER DETAILS

PROJ. ENG. W. J. Foreman | DATE MADE 1-15-79
SQUAD Wayne Clayton | DRAWING NO. 20 OF 33

DESIGNED BY R. Cassidy DESIGN CHECKED BY Fred Neal DETAILED BY Steve Quinn DETAIL CHECKED BY R. Cassidy

D96243

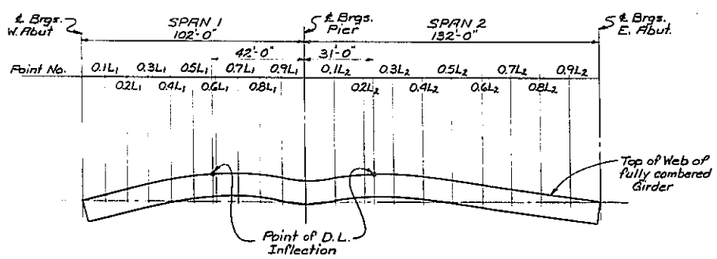
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	272	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1351.04

HAUNCH TABLE		℄ BRGS. WEST ABUTMENT	0.1L1	0.2L1	0.3L1	0.4L1	0.5L1	0.6L1	0.7L1	0.8L1	0.9L1	℄ BRGS. PIER	0.1L2	0.2L2	0.3L2	0.4L2	0.5L2	0.6L2	0.7L2	0.8L2	0.9L2	℄ BRGS. EAST ABUTMENT
GIRDER 1	(A) Req'd bottom of slab elevation	368.39	368.37	368.35	368.32	368.29	368.26	368.23	368.19	368.15	368.11	368.07	368.01	367.95	367.88	367.81	367.74	367.66	367.57	367.49	367.39	367.30
	(B) Top of steel elevation (Field Meas.)																					
	(C) = (A) - (B)																					
	(D) Concrete + S.D.L. Deflection	0	.036	.064	.078	.076	.060	.035	.009	-.009	-.012	0	.047	.123	.207	.276	.316	.323	.296	.231	.129	0
	(E) Depth of haunch req'd. = (C) + (D) (ft.)																					
GIRDER 2	(A) Req'd. bottom of slab elevation	368.61	368.58	368.56	368.54	368.51	368.48	368.44	368.41	368.37	368.33	368.29	368.23	368.17	368.10	368.03	367.96	367.88	367.79	367.71	367.62	367.52
	(B) Top of steel elevation (Field Meas.)																					
	(C) = (A) - (B)																					
	(D) Concrete + S.D.L. Deflection	0	.036	.064	.078	.076	.060	.035	.009	-.009	-.012	0	.047	.123	.207	.276	.316	.323	.296	.231	.129	0
	(E) Depth of haunch req'd = (C) + (D) (ft.)																					
GIRDER 3	(A) Req'd bottom of slab elevation	368.82	368.80	368.78	368.75	368.72	368.69	368.66	368.63	368.59	368.55	368.51	368.45	368.39	368.32	368.25	368.18	368.10	368.01	367.93	367.84	367.74
	(B) Top of steel elevation (Field Meas.)																					
	(C) = (A) - (B)																					
	(D) Concrete + S.D.L. Deflection	0	.036	.064	.078	.076	.060	.035	.009	-.009	-.012	0	.047	.123	.207	.276	.316	.323	.296	.231	.129	0
	(E) Depth of haunch req'd. = (C) + (D) (ft.)																					
GIRDER 4	(A) Req'd bottom of slab elevation	369.03	369.01	368.99	368.97	368.94	368.91	368.88	368.84	368.80	368.77	368.72	368.67	368.60	368.54	368.47	368.39	368.32	368.23	368.15	368.06	367.96
	(B) Top of steel elevation (Field Meas.)																					
	(C) = (A) - (B)																					
	(D) Concrete + S.D.L. Deflection	0	.036	.064	.078	.076	.060	.035	.009	-.009	-.012	0	.047	.123	.207	.276	.316	.323	.296	.231	.129	0
	(E) Depth of haunch req'd = (C) + (D) (ft.)																					
GIRDER 5	(A) Req'd bottom of slab elevation	369.05	369.03	369.01	368.99	368.96	368.93	368.90	368.86	368.83	368.79	368.75	368.69	368.63	368.56	368.49	368.42	368.34	368.26	368.17	368.09	367.99
	(B) Top of steel elevation (Field Meas.)																					
	(C) = (A) - (B)																					
	(D) Concrete + S.D.L. Deflection	0	.036	.064	.078	.076	.060	.035	.009	-.009	-.012	0	.047	.123	.207	.276	.316	.323	.296	.231	.129	0
	(E) Depth of haunch req'd = (C) + (D) (ft.)																					
GIRDER 6	(A) Req'd bottom of slab elevation	368.84	368.82	368.80	368.78	368.75	368.72	368.69	368.66	368.62	368.58	368.54	368.48	368.42	368.36	368.29	368.22	368.14	368.06	367.97	367.88	367.79
	(B) Top of steel elevation (Field Meas.)																					
	(C) = (A) - (B)																					
	(D) Concrete + S.D.L. Deflection	0	.036	.064	.078	.076	.060	.035	.009	-.009	-.012	0	.047	.123	.207	.276	.316	.323	.296	.231	.129	0
	(E) Depth of haunch req'd. = (C) + (D) (ft.)																					
GIRDER 7	(A) Req'd bottom of slab elevation	368.63	368.62	368.59	368.57	368.54	368.51	368.48	368.45	368.41	368.38	368.33	368.28	368.22	368.15	368.08	368.01	367.94	367.85	367.77	367.68	367.59
	(B) Top of steel elevation (Field Meas.)																					
	(C) = (A) - (B)																					
	(D) Concrete + S.D.L. Deflection	0	.036	.064	.078	.076	.060	.035	.009	-.009	-.012	0	.047	.123	.207	.276	.316	.323	.296	.231	.129	0
	(E) Depth of haunch req'd. = (C) + (D) (ft.)																					

CAMBER TABLE		℄ BRGS. WEST ABUTMENT	0.1L1	0.2L1	0.3L1	0.4L1	0.5L1	0.6L1	0.7L1	0.8L1	0.9L1	℄ BRGS. PIER	0.1L2	0.2L2	0.3L2	0.4L2	0.5L2	0.6L2	0.7L2	0.8L2	0.9L2	℄ BRGS. EAST ABUTMENT
GIRDERS 1-7	(I) Steel D.L. (ft.)	0	.002	.004	.004	.002	.000	-.003	-.005	-.006	-.006	0	.010	.023	.038	.049	.056	.056	.051	.040	.022	0
	(II) Concrete D.L. (ft.)	0	.029	.051	.062	.060	.047	.026	.006	-.008	-.010	0	.037	.096	.163	.219	.251	.258	.237	.186	.104	0
	(III) Superimposed D.L. (ft.)	0	.007	.013	.016	.016	.013	.009	.003	-.001	-.002	0	.010	.027	.044	.057	.065	.065	.059	.045	.025	0
	(IV) Vertical Curve (ft.)	0	.031	.053	.074	.090	.108	.124	.135	.141	.153	.154	.159	.159	.150	.140	.130	.114	.085	.065	.029	0
	TOTAL = (I) + (II) + (III) + (IV) (ft.)	0	.069	.121	.156	.168	.168	.156	.139	.126	.139	.154	.216	.305	.395	.465	.502	.493	.432	.336	.180	0



CAMBER DIAGRAM
N. T. S.

Note:
The camber table presumes a continuous pour from abutment to abutment. Any deviation from this pouring sequence require a different cambering and must be submitted to D.C.E.S. for approval

CAMBER NOTES

1. The total camber as tabulated is assumed to be measured vertically to the top of full camber web from a straight line drawn from the intersection of top of web and centerline of bearings at one end of the girder to the intersection of top of web and centerline of bearings at the other end of the girder.
2. The camber labeled "Vertical Curve" in the table is the camber required in the girder to cause the girder to follow the vertical curve.
3. The camber labeled "Steel D.L." in the table is the camber required in the girder to offset the deflection due to the dead load weight of the steel in the girder.
4. The camber labeled "Concrete D.L." in the table is the camber required in the girder to offset the deflection due to the dead load weight of the concrete slab.
5. The camber labeled "Superimposed D.L." in the table is the camber required in the girder to offset the deflection due to the weight of the superimposed dead load, that is, the curb, sidewalk, railing and future wearing surface.
6. Cambers listed in the table as positive are upward cambers.
7. Cambers listed in the table as negative are downward cambers.
8. The cambers are tabulated in decimals of a foot.

DESIGNED BY
DESIGN CHECKED BY
DETAILED BY
DETAIL CHECKED BY

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

GIRDER TABLES

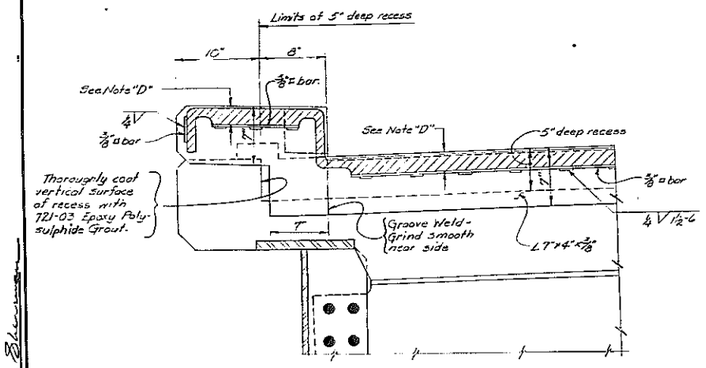
PROJ. ENG. O. Sherman | DATE MADE Aug 2, 1979
SQUAD Homer Carson | DRAWING NO. 21 OF 33

D96243

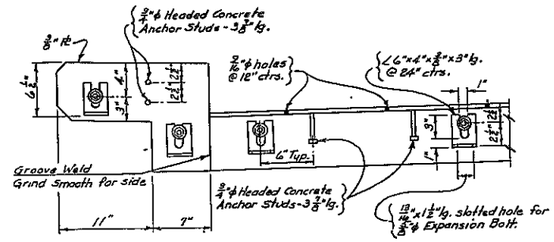
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	273R1	284

I-88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 080
SCHENECTADY COUNTY.

CAPITAL PROJECT IDENTIFICATION NO. 1357.04

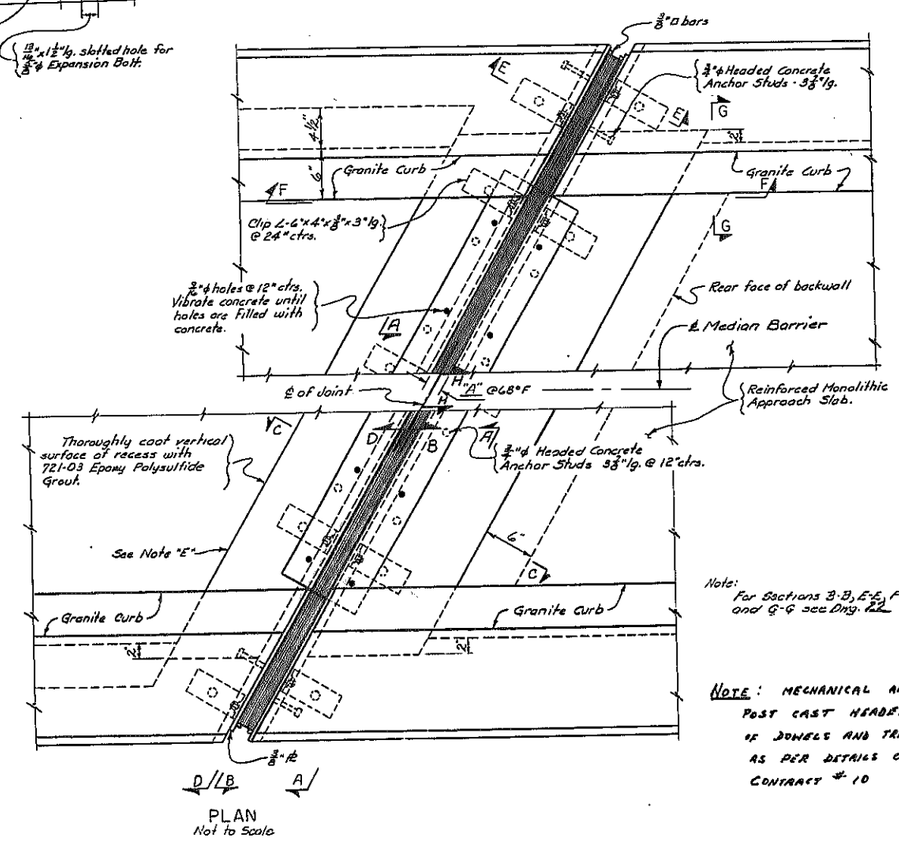


SECTION D-D
Not to Scale



SECTION A-A
ONLY STEEL SHOWN
Not to Scale

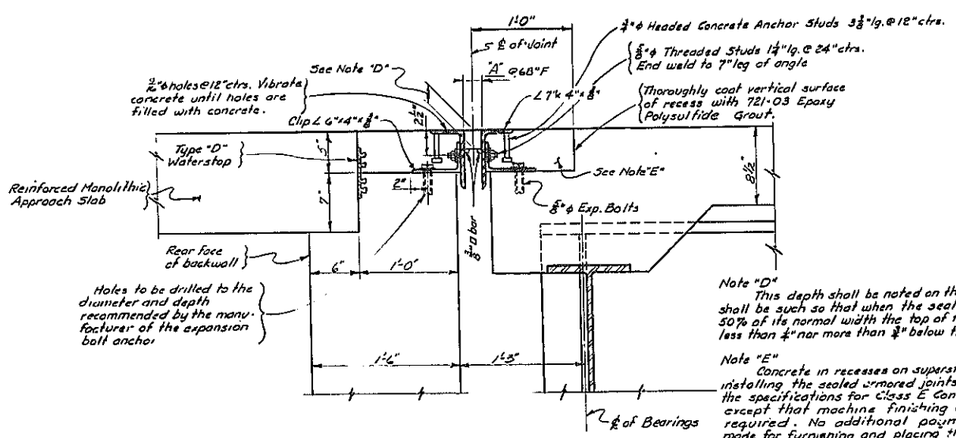
DIMENSION "A"		SEAL BEFORE COMPRESSION	ITEM NO.
EAST ABUTMENT	2 3/8"	4"	567.36
WEST ABUTMENT	2 1/16"	3 1/2"	567.35



PLAN
Not to Scale

Note:
For Sections B-B, E-E, F-F, G-G, H-H and C-C see Dwg. 22

NOTE: MECHANICAL ANCHORAGE OF POST CAST HEADER CONSISTING OF DOWELS AND TRANSVERSE BARS AS PER DETAILS ON ORDER ON CONTRACT # 10



SECTION C C
Not to Scale

Note "D"
This depth shall be noted on the shop drawings and shall be such so that when the seal is compressed to 50% of its normal width the top of the seal shall not be less than 1/4" nor more than 3/8" below the top of roadway.

Note "E"
Concrete in recesses on superstructure provided for installing the sealed armored joints shall comply with the specifications for Class E Concrete for Structures except that machine finishing will not be required. No additional payment will be made for furnishing and placing this concrete as this quantity lies within the limits of the area to be paid for under the Item Class E Concrete for Structures.

Note:
It is desirable to have the armored joint with its preformed elastic joint sealer assembled in the shop and delivered to the job site all set for installation in its preformed recess in the structural slab. In cases where the armored joint cannot be assembled in the shop, due to its excessive length causing shipping problems, the joint shall be sealed with the preformed elastic joint sealer before the structure is open to traffic, including construction traffic, and before discontinuing operation when work is suspended during the Winter.

Note:
For detail of Headed Concrete Anchor Stud, see Dwg. 22

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

JOINT DETAILS

PROJ. ENG. G. Zimmermann DATE MADE Dec. 2, 1979
BOARD Ulman Chen DRAWING NO. 22 OF 33

DESIGNED BY
DESIGN CHECKED BY
DETAILED BY
DETAIL CHECKED BY

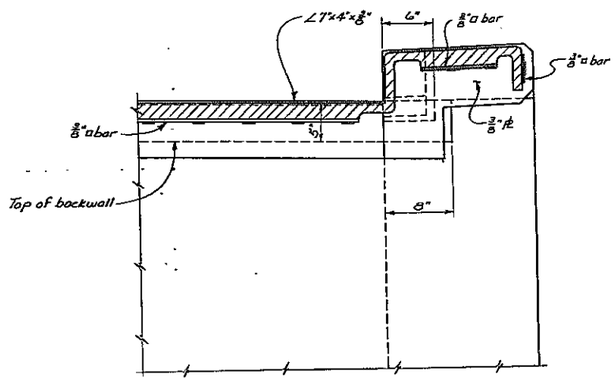
D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	274(1)	284

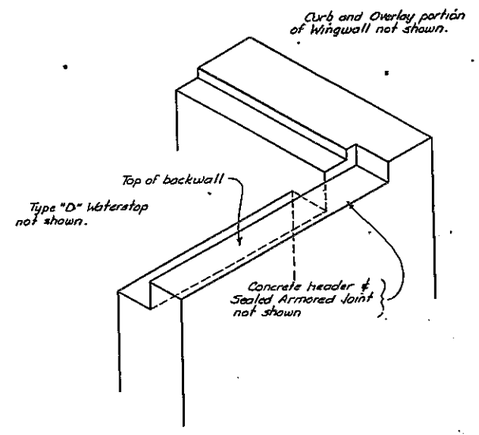
188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04

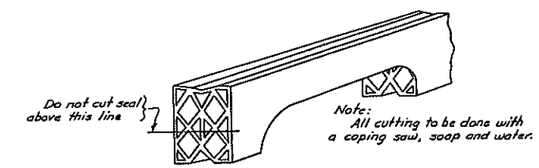
Note:
The sealer shall be supplied in one piece for the full length of joint. Splices will not be permitted when the length of this piece is less than 50 ft. For lengths up to 100 ft. one shop splice will be permitted. For lengths in excess of 100 ft. shop splices may be placed at approximately 50 ft. intervals.

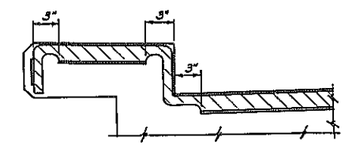


SECTION B-B
Not to Scale

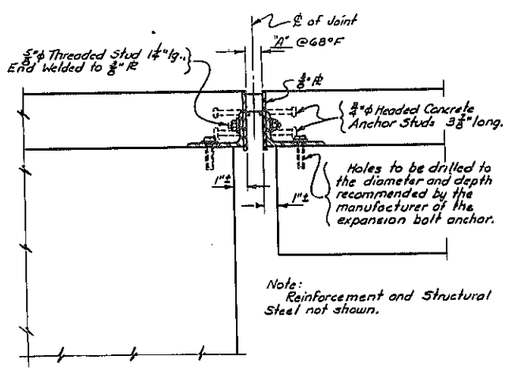


PARTIAL ISOMETRIC OF ABUTMENT

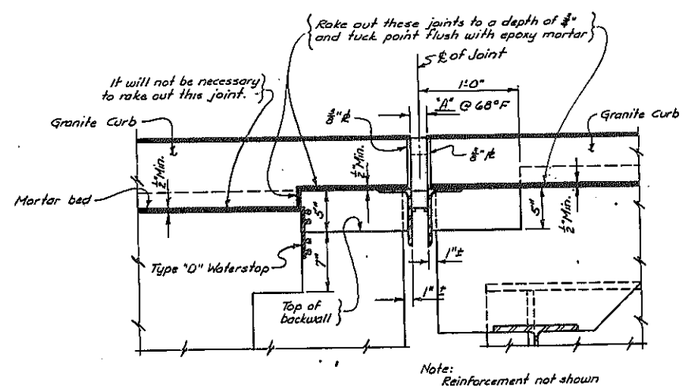




DETAILS FOR CUTTING AND BENDING SEAL
Not to Scale



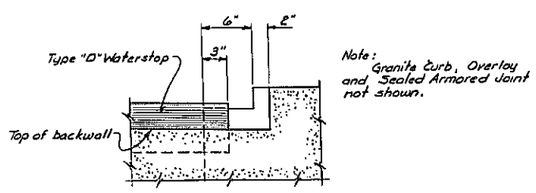
SECTION E-E
Not to Scale



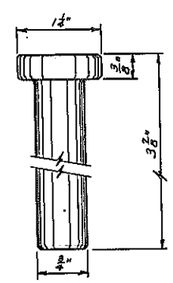
SECTION F-F
Not to Scale

NOTE: MECHANICAL ANCHORAGE OF POST CAST HEADER CONSISTING OF DOWELS AND TRANSVERSE BARS CONSTRUCTED AS PER DETAILS ON ORDER ON CONTRACT #10

Notes:
For "A" Dimension see Dwg. 22



SECTION G-G
Not to Scale



DETAIL OF HEADED CONCRETE ANCHOR STUD
Full Scale

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

JOINT DETAILS

PROJ. ENG. G. Thomas
DATE MADE Aug 2 1970
DRAWING NO. 23 OF 33

DESIGNED BY
DESIGN CHECKED BY
DETAILED BY
DETAIL CHECKED BY

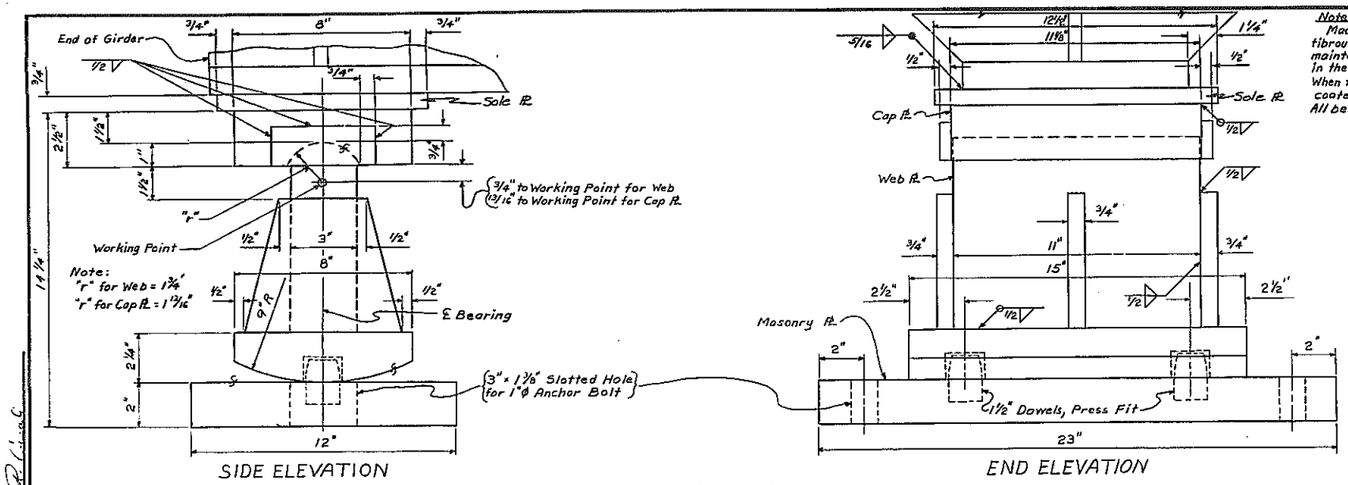
D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	275	284

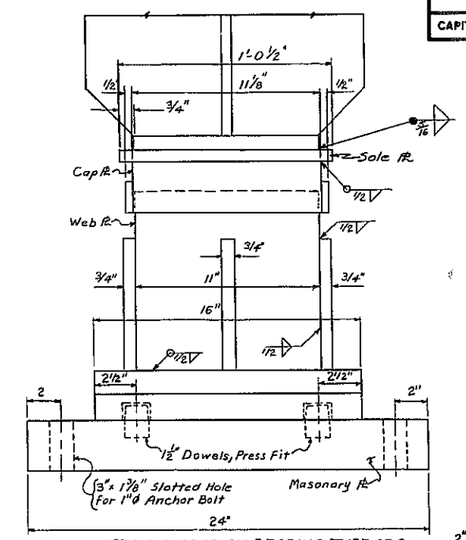
I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1359.04

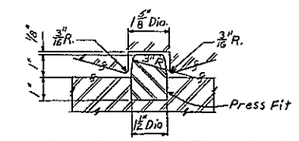
Note:
Machine-finished sliding surfaces in contact shall receive one coat of any common fibrous automotive grease as soon as machining is complete. The Contractor shall maintain all protective coatings to prevent corrosion. All protective coatings applied in the shop shall be removed immediately prior to assembly of the members in the field. When the protective coating is removed, the members shall be thoroughly cleaned and then coated with automotive grease before assembly.
All bearings steel to be unpainted A.S.T.M. A588.



EXPANSION BEARING TYPE AE1
ITEM 565.0101
Scale: 4" = 1'-0"

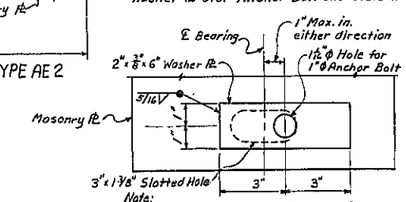


END ELEVATION EXPANSION BEARING TYPE AE2
ITEM 565.0102
Scale: 3" = 1'-0"

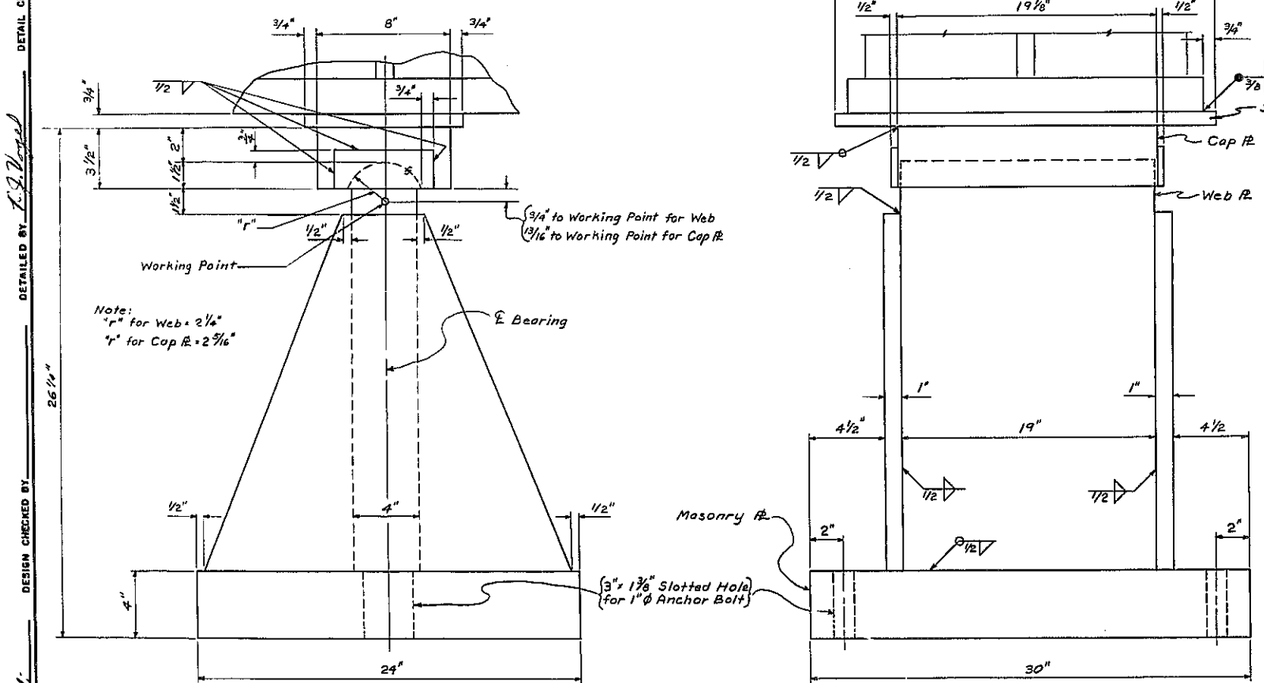


TYPICAL SECTION THRU DOWEL
Scale: 4" = 1'-0"

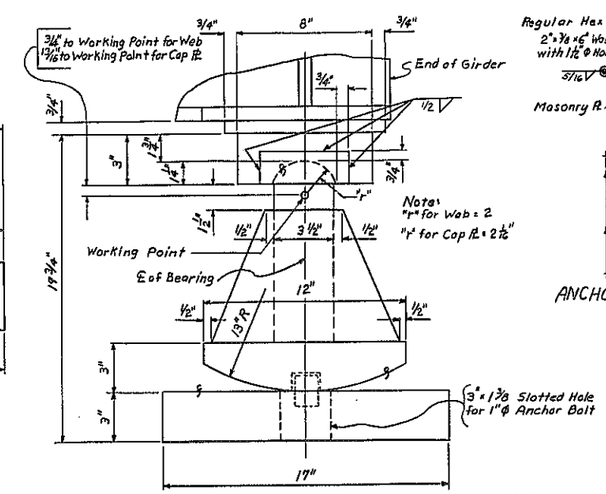
Note:
3" x 1 3/8" slotted hole is to be provided in the Masonry Pl. The 2" x 3/8" x 6" Washer Pl. is to be provided with a 1 1/2" ϕ hole for 1" ϕ Anchor Bolt. Place Washer Pl. over Anchor Bolt and field weld.



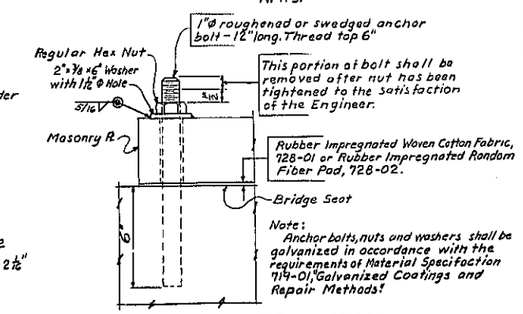
WASHER PLATE ATTACHMENT DETAIL
N.T.S.



FIXED BEARING TYPE AF6
ITEM 565.0206
N.T.S.



SIDE ELEVATION EXPANSION BEARING TYPE AE2
ITEM 565.0102
Scale: 3" = 1'-0"



ANCHOR BOLT DETAIL FOR ALL BEARINGS
N.T.S.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

BEARING DETAILS

PROJ. ENG. G. Fiorenza | DATE MADE 1-12-74
SOURCE Dave Clason | DRAWING NO. 24 OF 33

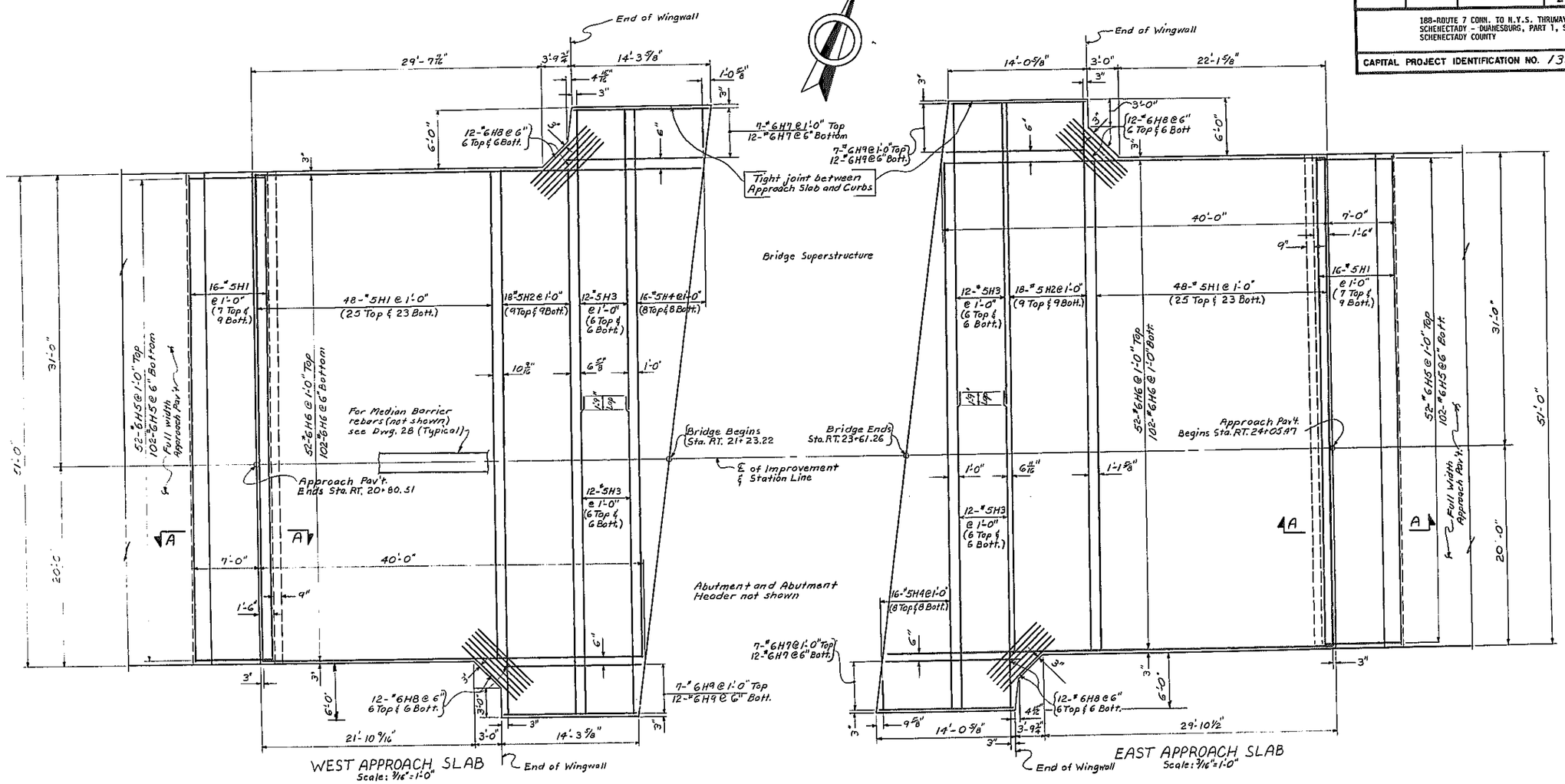
DESIGNED BY R. Clark | DESIGN CHECKED BY | DETAILED BY K.J. Wood | DETAIL CHECKED BY R. Lisac

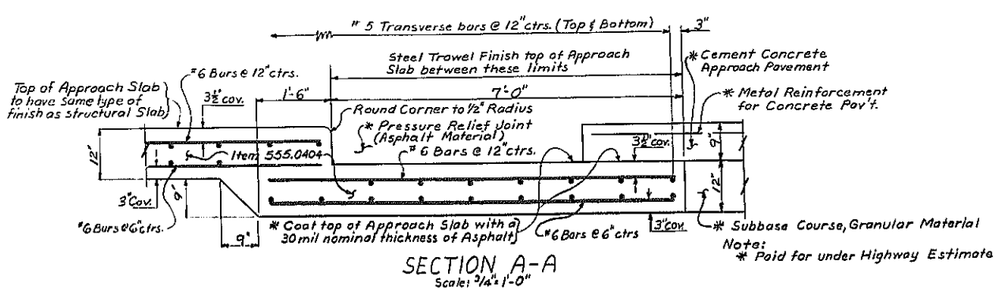
D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	276 R1	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - QUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04





LOCATION	ITEM 555.0404	ITEM 556.0201	ITEM 556.0202
West Approach Slab	2755	~~18450~~ 18345	~~671~~ 776
East Approach Slab	2754	~~18406~~ 18301	~~671~~ 801

For additional rebars (not shown this dwg.) in the approach slabs, see Dwg. 28 Concrete Median Barrier.

REVISION IN TABLES

ITEMS 556.0201 & 556.0202

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

APPROACH SLAB DETAILS

PROJ. ENG. G. Sherman | DATE MADE 11/19/74
SQUAD Dennis Hassler | DRAWING NO. 25 OF 33

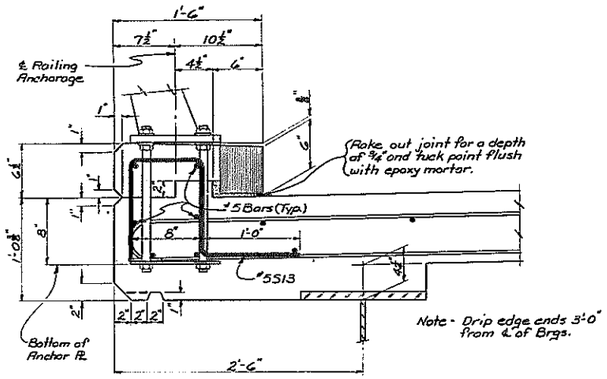
DESIGNED BY | DESIGN CHECKED BY | DETAILED BY | DETAIL CHECKED BY

D96243

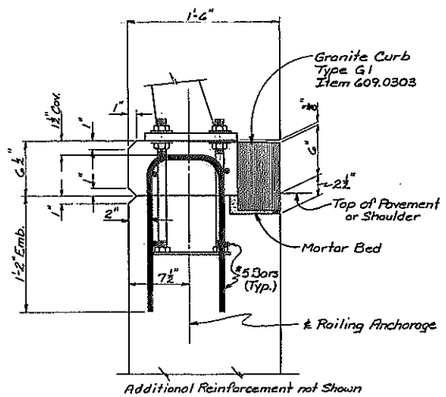
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	277	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04

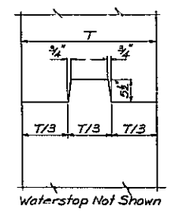


FASCIA DETAIL
Scale 1½"=1'0"

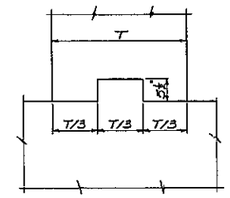


TOP OF WINGWALL DETAIL
Scale 1½"=1'0"

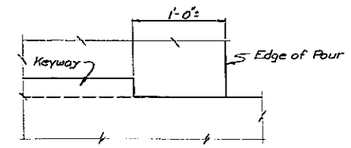
Note: All keys should begin and end 1'-0" from the edge of pour as indicated below.



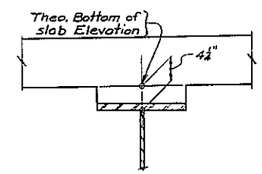
VERTICAL



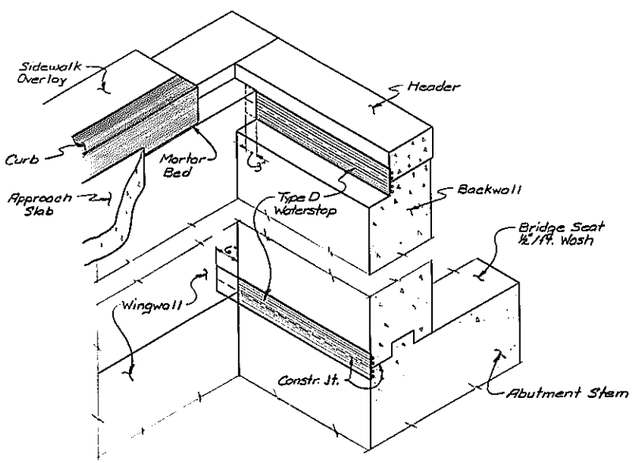
HORIZONTAL



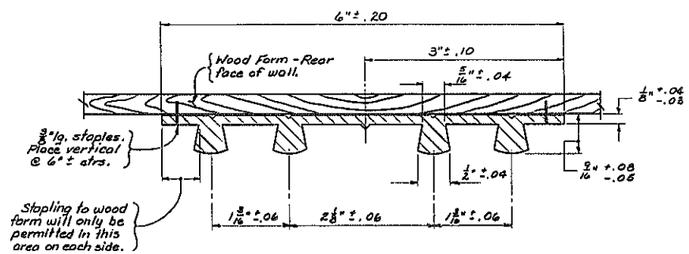
KEYWAY DETAILS
Scale 1½"=1'0"



GIRDER HAUNCH DETAIL
Not to Scale



WATERSTOP LOCATION DETAIL
Not to Scale



Waterstops shall conform to the requirements of Section 705-11 of the Specifications.

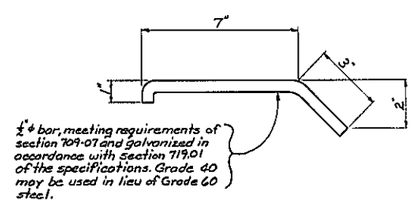
Holes must not be made in waterstop for any purpose except as required for stapling to forms.

Type "D" Waterstop shall be light gray in color.

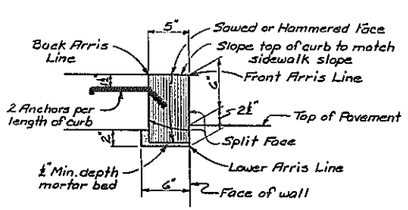
The cost of furnishing and placing waterstops shall be included in the unit price bid for the concrete items.

NOTE:
To facilitate shipping and handling of P.V.C. Waterstops, field butt splices will be permitted on straight runs at points approved by the Engineer. Shop splices shall be used at locations shown on the Contract Plans. The method and equipment used to make the field splices must be approved by the Deputy Chief Engineer (Structures).

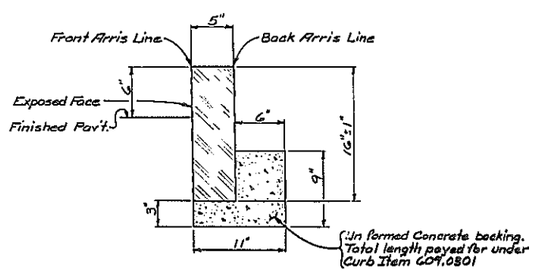
TYPE D WATERSTOP
Full Scale



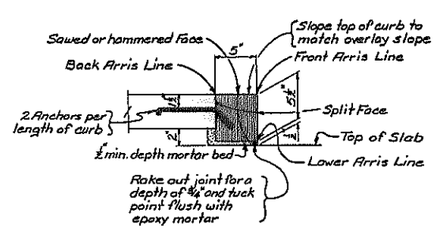
ANCHOR BAR DETAIL
Not to Scale



STONE CURB - TYPE G1
Item 609.0808
Not to Scale



STONE CURB - TYPE A
Item 609.0801
Not to Scale



STONE CURB - TYPE F1
Item 609.0802
Not to Scale

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

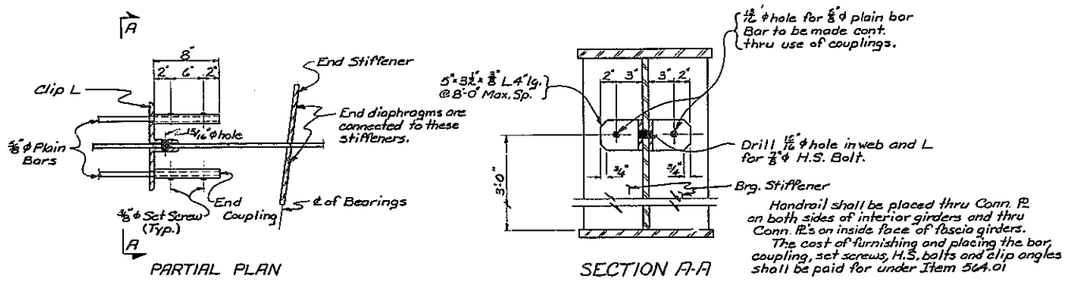
MISCELLANEOUS DETAILS

PROJ. ENG. [illegible] DATE MADE 2-8-77
SQUAD [illegible] DRAWING NO. 26 OF 33

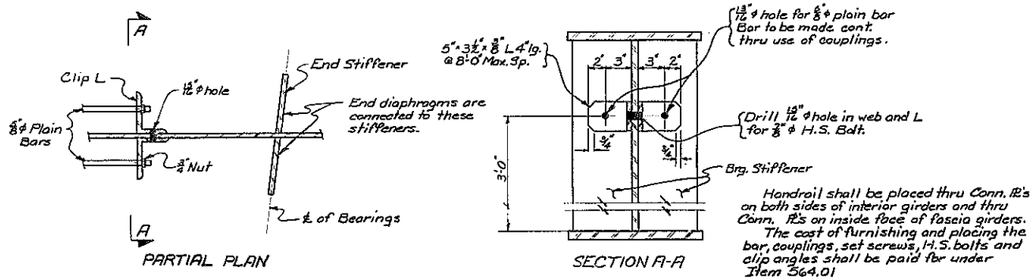
DETAIL CHECKED BY [illegible]
DESIGNED BY [illegible] DESIGN CHECKED BY [illegible] DETAILED BY [illegible]

D96243

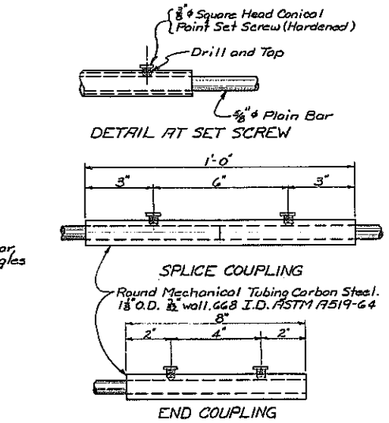
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	278	284
I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY SCHENECTADY - DUANESBURG, PART 1, S.H. 880 SCHENECTADY COUNTY				
CAPITAL PROJECT IDENTIFICATION NO. 1357.04				

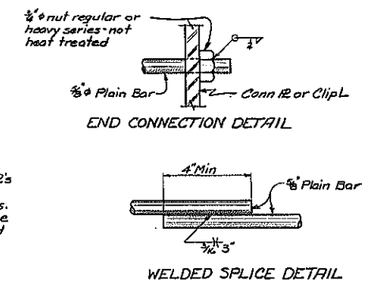


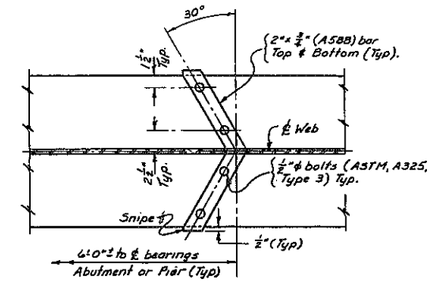
DETAILS FOR FIELD ERECTED SAFETY HANDRAIL
Not to Scale



DETAILS FOR SHOP ERECTED SAFETY HANDRAIL
Not to Scale

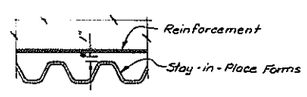




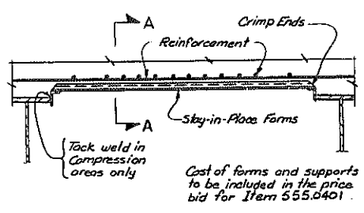


Place red lead paste between drip bars and flange and web prior to bolting. Bars below flange shall be longer than those above so as to touch at ℄ of girder.

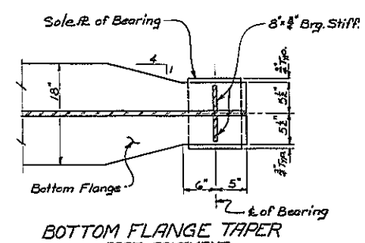
DRIP BAR DETAIL
Not to Scale



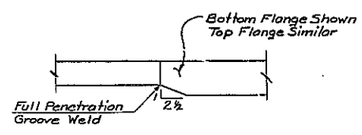
SECTION A-A
Not to Scale



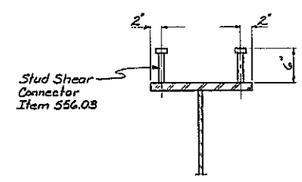
DETAILS OF STAY-IN-PLACE FORMS
Not To Scale



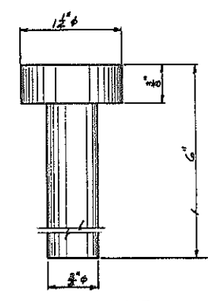
BOTTOM FLANGE TAPER
EAST ABUTMENT
Not to Scale



FLANGE THICKNESS TAPER
Not To Scale



STUD SHEAR CONNECTOR DETAIL
Not to Scale



DETAIL OF STUD
Not to Scale

DESIGNED BY _____ DESIGN CHECKED BY _____ DETAILED BY R. Canal DETAIL CHECKED BY R. Canal

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L OVER N.Y.S. THRUWAY AND RAMP L

MISCELLANEOUS DETAILS

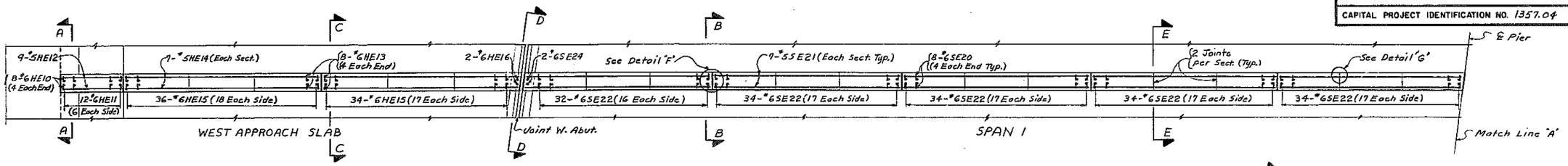
PROJ. ENG. J. Fitzsimmons | DATE MADE 2-16-79
SQUAD Thomas Larsen | DRAWING NO. 27 OF 33

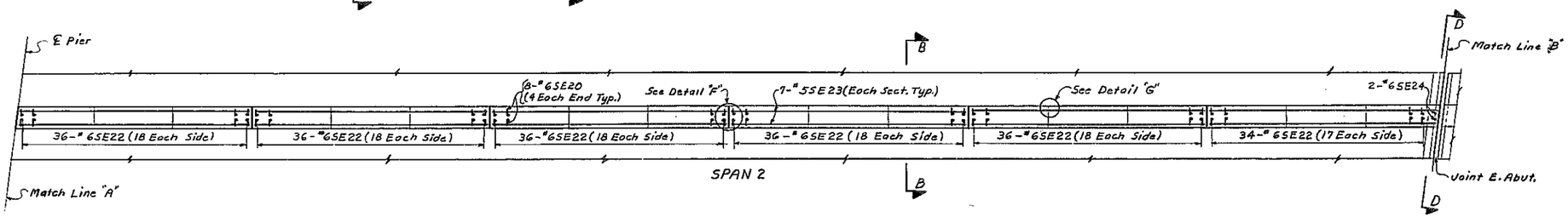
D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	279	284

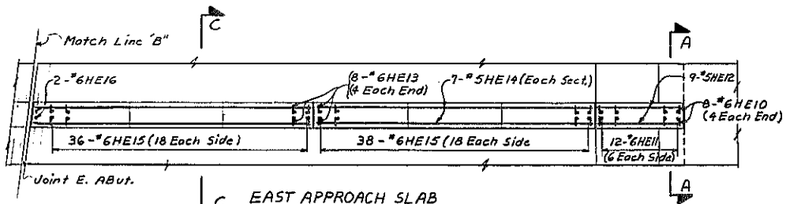
I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITAL PROJECT IDENTIFICATION NO. 1357.04

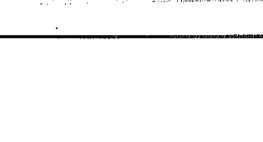




MEDIAN BARRIER REINFORCEMENT PLAN

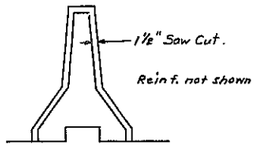


EAST APPROACH SLAB

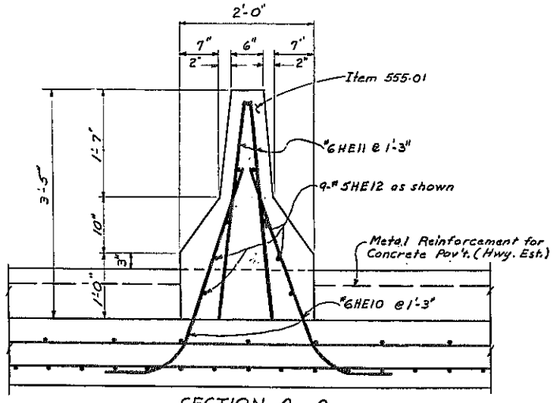


DETAIL "F"
Scale: None

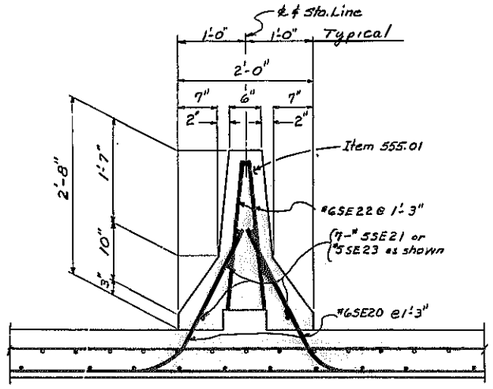
DETAIL "G"
Scale: None



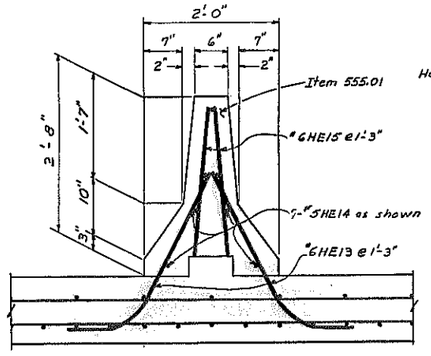
SECTION E-E
Scale: none



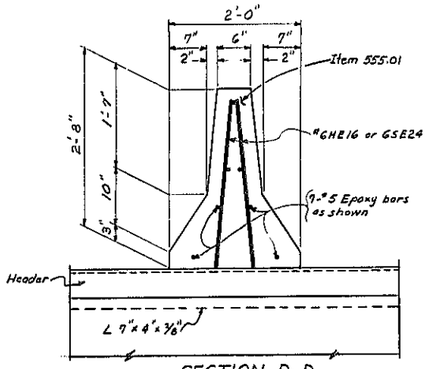
SECTION A-A
Scale: 1"=1'-0"



SECTION B-B
Scale: 1"=1'-0"



SECTION C-C
Scale: 1"=1'-0"



SECTION D-D
Scale: 1"=1'-0"

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BRIDGE NO. 3 RAMPS F AND L
OVER N.Y.S. THRUWAY AND RAMP L

MEDIAN BARRIER DETAILS

PROJ. ENG. G. Sherman	DATE MADE 7-10-79
SQUAD L. Verner Cable	DRAWING NO. 28 OF 35

DESIGNED BY R. Cook DESIGN CHECKED BY DETAILED BY L.B. Wood DETAIL CHECKED BY R. Cook

ED 178 11-78

59

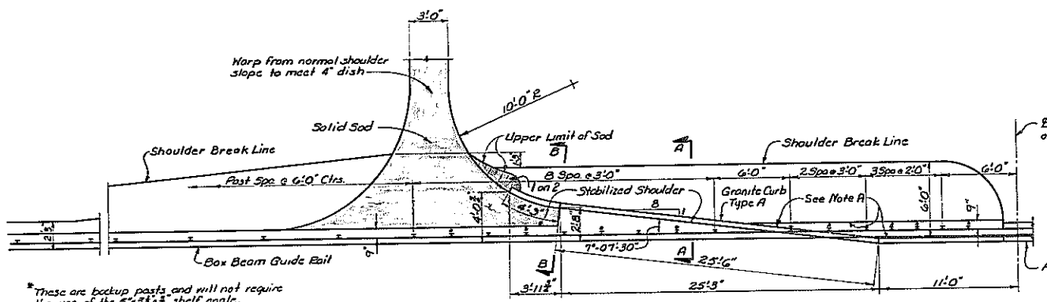
D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	280R1	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

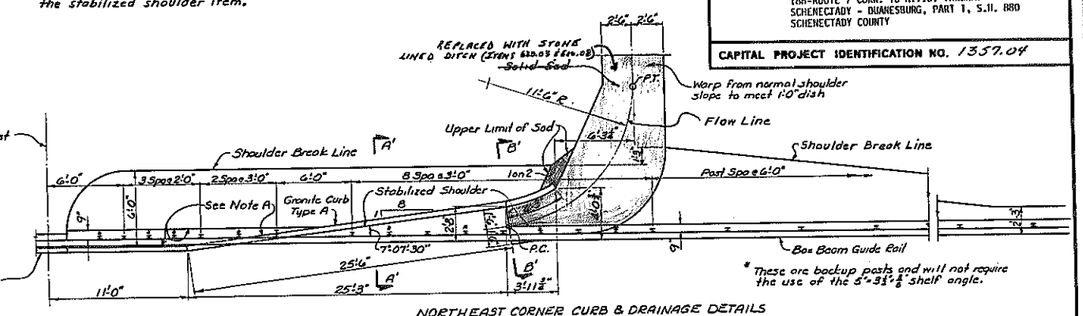
CAPITAL PROJECT IDENTIFICATION NO. 1357.04

Note A
Pave this area with the same material as in stabilized shoulder. Payment will be made under the stabilized shoulder item.



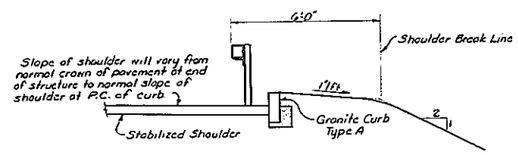
*These are backup posts and will not require the use of the 5"×3½"×⅜" shelf angle.

NORTHWEST CORNER CURB & DRAINAGE DETAILS
(SOUTHWEST CORNER SIMILAR)
Scale: 3/16" = 1'0"



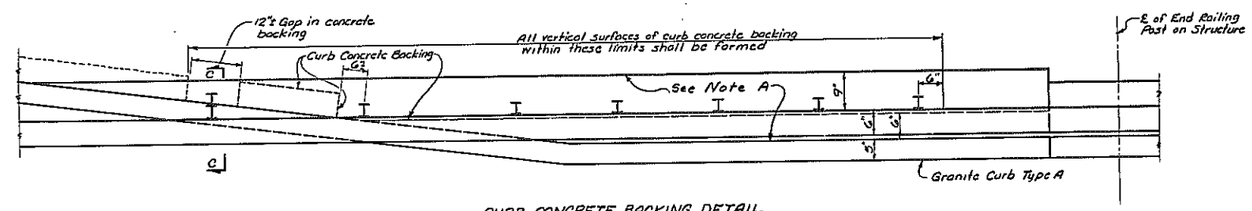
*These are backup posts and will not require the use of the 5"×3½"×⅜" shelf angle.

NORTHEAST CORNER CURB & DRAINAGE DETAILS
(SOUTHEAST CORNER SIMILAR)
Scale: 3/16" = 1'0"

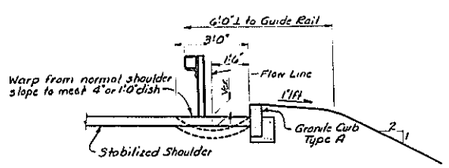


*SECTION A-A
Scale: 3/8" = 1'0"

* Section A'-A' similar

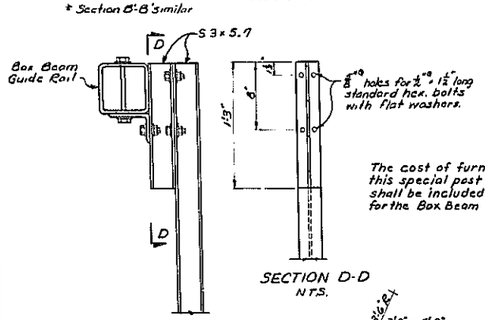


CURB CONCRETE BACKING DETAIL
Scale: 3/8" = 1'0"



*SECTION B-B
Scale: 3/8" = 1'0"

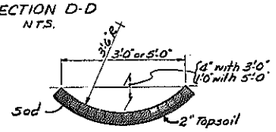
* Section B'-B' similar



The cost of furnishing and placing this special post with its stand-off shall be included in the Unit Price bid for the Box Beam Guide Rail Item.

SECTION D-D
N.T.S.

PARTIAL SECTION C-C
N.T.S.



SECTION THRU GUTTER
N.T.S.

Notes:
For Curb Details see Dwg. 26
For Railing Details see Dwg. 19 & 30

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

DRAINAGE DETAILS

DRAWING NO. 29 OF 33

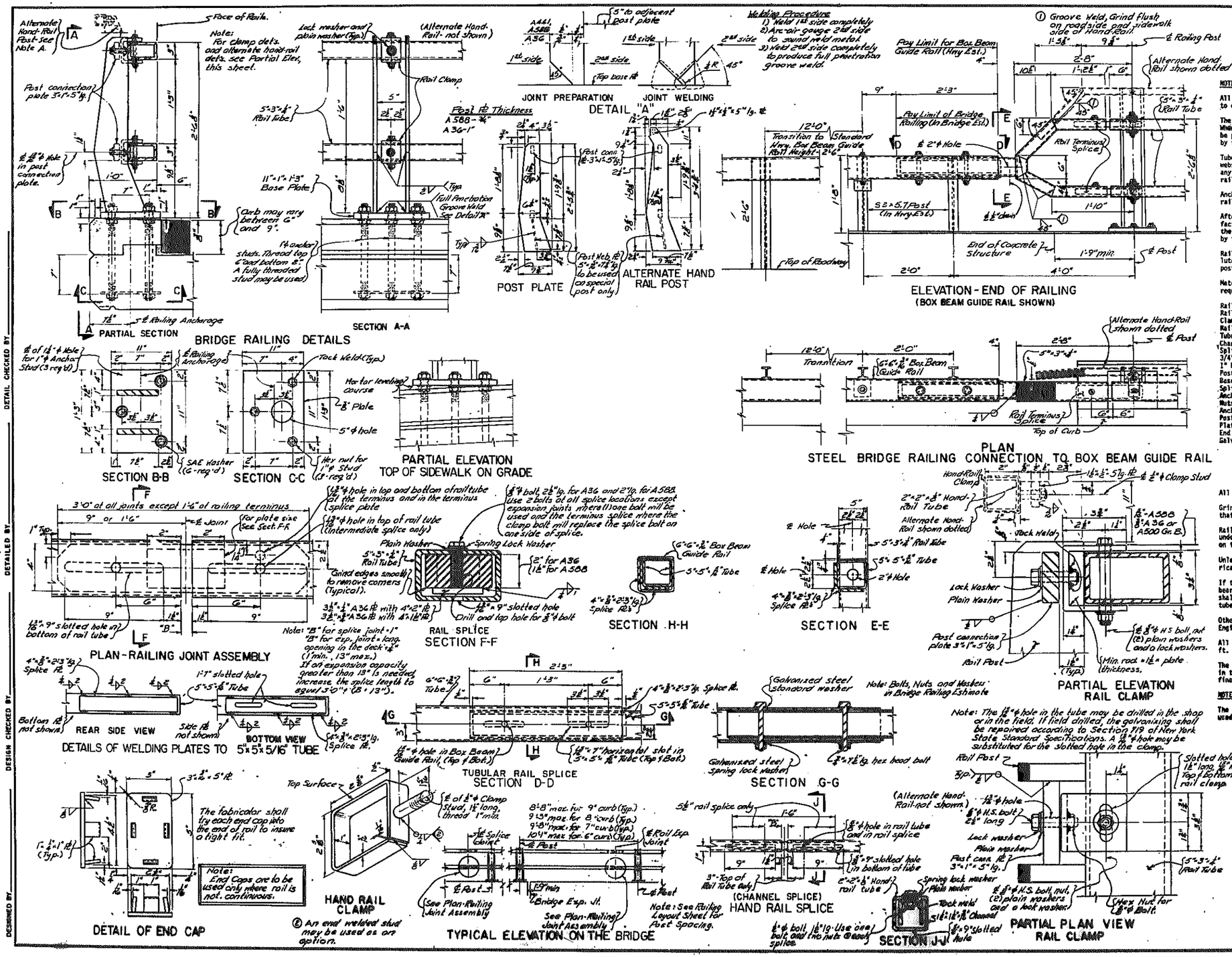
DATE MADE Aug 2, 1979
PROJECT ENGINEER
IN CHARGE OF Verne Owen
DESIGNED BY
DESIGN CHECKED BY
DETAILED BY
DETAIL CHECKED BY

D96243

FED RD REG NO	STATE	FEDERAL AID PROJECT NO	SHEET NO	TOTAL SHEETS
	NEW YORK	I-88-2(10)	281	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITOL PROJECT IDENTIFICATION NO. 1337.04



NOTES:

All railing is to be fabricated and erected so that the rails are parallel to each other and the posts are truly vertical.

The Base Plates shall be perpendicular to the post unless otherwise noted. When the railing is to be placed on a preformed surface, the Base Plate may be parallel to the grade or may be perpendicular to the post and made level by the use of (1:1 ratio cement to sand, mortar).

Tubular steel rails, rail clamp assemblies, nuts and washers, posts, post webs, if required, post spacers, base plates, railing joint assemblies and any necessary shims and mortar leveling course shall be paid for under the railing item.

Anchor studs, nuts, washers and anchor plates shall be paid for under the railing item.

After the anchor stud nuts have been placed and tightened to the satisfaction of the Engineer, the studs shall be flame cut-off one inch above the nut and the first thread above the nut shall be damaged, as ordered by the Engineer.

Rails shall span a minimum of 3 posts. If this is impossible, the absolute minimum shall be 2 posts with one of these posts being a special post.

Materials used in the manufacture of this railing shall conform to the requirements and/or specifications listed below:

Rail Tubes - ASTM Designation A500, Grade B
Rail Clamps - ASTM Des. A500 Grade B, A36, A588, A441 and A572 Grade 50
Clamp Bolts and Nuts - ASTM Designation A325
Rail Splices - ASTM Designation A36 , A588 and A572, Grade 50
Tubular Rail Splices - ASTM Designation A500, Grade B
Channel Rail Splices - ASTM Designation A36
Splice Plates - ASTM Designation A36
3/4" Post Plates - ASTM Designation A588, A441 and ASTM A572, Grade 50
1" Post Plates - ASTM Designation A36
Post Connection Plate - ASTM Designation A36 or A.I.S.I. Designation 1020
Base Plates - ASTM Designation A588 and A572, Grade 50
Splice Bolts, Nuts and Washers - ASTM Designation A307
Anchor Studs - ASTM Designation A449
Nuts and Washers for Anchor Studs - ASTM Designation A325
Anchor Plates - ASTM Designation A36
Post Web Plates (if required) - Same as Post Plate Material
Plate Shims - ASTM Designation A36
End Cap - ASTM Designation A36
Galvanized Railing - All components of the railing, including anchor studs, nuts and washers shall be galvanized in accordance with Material Specification 719-01. Anchor Studs shall have a Class 2A thread fit prior to galvanizing. The cut portion of the anchor studs shall be repaired according to Material Specification 719-01.

All bolts shall have a Class 2A thread fit prior to galvanizing.

Grind all edges of Post Plates and Base Plates prior to galvanizing so that all sharp edges are removed.

Railing posts shall be erected to proper line and grade before concrete under post and in back of granite curb is poured unless otherwise indicated on the Contract Plans.

Unless covered by other Specifications, all dimensions related to the fabrication of the steel railing shall have a tolerance of ± 1/16".

If the end of the bolts connecting the clamp to the post connection plate bear against the tube when in the final position, additional plain washers shall be added to prevent the end of the bolt from bearing against the tube.

Other clamp steels may be used with the approval of the Deputy Chief Engineer (Structures).

All high-strength bolts shall be torqued snug tight (approximately 100 ft. lbs.)

The hole for the bolt connecting the tube and the clamp will be located in the tube so that the tube will bear against the post plate when in the final position.

NOTE "A":

The alternate handrail is for use when the traffic railing system is used between pedestrian traffic and vehicular traffic.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF CONSTRUCTION

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

STEEL BRIDGE RAILING-TWO RAIL

FINAL ENG. | DATE MADE May 2, 1979
DRAWING NO. 30 OF 38

DETAILED BY
DESIGN CHECKED BY
DETAIL CHECKED BY
DESIGNED BY

D96243

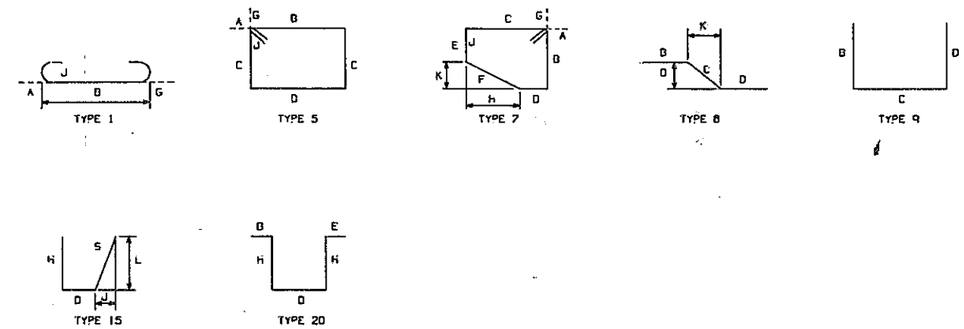
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	282	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART I, S.H. 1981
SCHENECTADY COUNTY

CAPITOL PROJECT IDENTIFICATION NO. 1357-04

BAR BENDING DIAGRAMS

All bar dimensions out to out unless otherwise indicated



MARK	NO.	LENGTH	TYP	WEIGHT	A	B	C	D	E	F	G	H	J	K	L	R	S	T
N.Y.S. THRUWAY AND RAMP L																		
WEST ABUTMENT																		
POUR 1 FOOTING																		
5A1	20	35-4	STR	737														
5A2	60	5-10	STR	365														
5A3	9	AVG. 19-0	STR	178														
5A3					LENGTH VARIES FROM 18-8 TO 19-4													
5A4	8	AVG. 18-8	STR	156														
5A4					LENGTH VARIES FROM 18-6 TO 19-0													
5A5	18	4-6	STR	84														
5A6	18	4-4	STR	81														
5A7	51	9-1	1	463	0-7	8-6					***		0-5					
SUBTOTAL PLAIN BARS				2084	THIS POUR													
POUR 2 STEM																		
5A8	34	3-4	STR	118														
5A9	8	4-1	STR	34														
5A10	8	4-1	STR	34														
5A11	8	35-1	STR	293														
5A12	8	35-1	STR	293														
5A13	4	17-8	STR	72														
5A14	5	17-2	STR	90														
5A15	4	18-11	STR	71														
5A16	5	17-1	STR	89														
5A17	45	3-4	STR	156														
5A18	10	35-6	STR	948														
5A19	8	3-10	STR	32														
5A20	10	AVG. 4-0	STR	42														
5A20					LENGTH VARIES FROM 3-8 TO 4-4 X2 SETS OF 50													
SUBTOTAL PLAIN BARS				2272	THIS POUR													
POUR 3 BACKWALL - UPPER WINGWALL																		
5A21	32	6-1	STR	203														
5A22	14	AVG. 7-3	STR	106														
5A22					LENGTH VARIES FROM 7-0 TO 7-6													
5A23	30	35-1	STR	1090														
5A24	10	7-2	STR	75														
5A25	16	14-11	STR	249														
5A26	7	7-4	STR	54														
5A27	6	15-1	STR	95														
5A28	20	AVG. 7-1	STR	149														
5A28					LENGTH VARIES FROM 6-9 TO 7-6													
5A29	7	7-1	STR	52														
5A30	9	6-11	STR	65														
5A31	6	14-9	STR	92														
5A32	7	7-4	STR	54														
5A33	7	7-1	STR	52														
5A34	16	AVG. 4-11	STR	83														
5A34					LENGTH VARIES FROM 4-5 TO 5-6 X2 SETS OF 50													
5A35	16	2-6	STR	42														
SUBTOTAL PLAIN BARS				2469	THIS POUR													
POUR 4 WINGWALL OVERLAY NW + SW																		
5A38	44	3-5	9	166		1-6	0-6	1-6										
5A39	4	14-10	STR	62														
5A40	4	5-8	STR	24														
SUBTOTAL PLAIN BARS				254	THIS POUR													
POUR 5 HEADER																		
5A36	86	1-11	9	130		1-5	0-6	***										
5A37	2	33-0	STR	69														

EXPLANATION OF BAR MARKS

First or first and second characters indicate size of bar.
First alphabetic character indicates structure unit.
If followed by the letter "E" - bar is Epoxy Coated.
If followed by the letter "G" - bar is Galvanized.
Remainder is sequential listing of bar marks.

STRUCTURE UNIT

A-Abutment
C-Culvert
F-Foundation Pile
H-Highway Approach Slab
P-Pier
R-Rigid Frame Arch
S-Superstructure
W-Wall (Isolated)

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BARLIST SHEET NO. 1

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

PROJ. ENG. J. SHERMAN — DATE MADE 2/20/74
DRAWN W. CLARKEN — DRAWING NO. 31 OF 33

DETAILED BY ____ DETAIL CHECKED BY ____
DESIGN CHECKED BY ____
DESIGNED BY ____

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	283	284

188-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITOL PROJECT IDENTIFICATION NO. 1357-04

MARK	NO.	LENGTH	TYP	WEIGHT	A	B	C	D	E	F	G	H	J	K	L	R	S	T
SUBTOTAL	PLAIN BARS			199	THIS POUR													
POUR 6 PEDESTALS																		
SA42	3	12-4	7	39	0-6	1-10	4-0	3-8	***	1-10	0-6	0-4	0-4	1-10				
SA43	12	10-0	5	125	0-6	2-8	1-10				0-6		0-4					
SA44	35	2-8	9	97		2-2	0-6	***										
SUBTOTAL	PLAIN BARS			251	THIS POUR													
EAST ABUTMENT																		
POUR 1 FOOTING																		
SA1	20	35-5	STR	739														
SA2	70	6-2	STR	450														
SA3	8	AVG. 19-3	STR	160														
SA3					LENGTH VARIES FROM 18-11 TO 19-6													
SA4	8	AVG. 18-10	STR	159														
SA4					LENGTH VARIES FROM 18-7 TO 19-2													
SA5	18	4-4	STR	81														
SA6	20	4-4	STR	90														
SA7	56	8-8	1	506	0-7	8-1					***		0-5					
SUBTOTAL	PLAIN BARS			2184	THIS POUR													
POUR 2 STEM																		
SA8	34	3-5	STR	121														
SA9	8	3-6	STR	29														
SA10	8	3-6	STR	29														
SA11	8	35-1	STR	293														
SA12	8	35-1	STR	293														
SA13	4	17-4	STR	72														
SA14	5	17-2	STR	90														
SA15	4	18-11	STR	71														
SA16	5	17-1	STR	89														
SA17	45	3-7	STR	168														
SA18	10	35-7	STR	950														
SA19	7	3-8	STR	28														
SA20	10	AVG. 4-0	STR	41														
SA20					LENGTH VARIES FROM 3-8 TO 4-3 2 SETS OF 50													
SUBTOTAL	PLAIN BARS			2272	THIS POUR													
POUR 3 BACKWALL - UPPER WINGWALL REINF																		
SA21	37	7-5	STR	285														
SA22	20	AVG. 7-7	STR	159														
SA22					LENGTH VARIES FROM 7-2 TO 8-0													
SA23	30	35-1	STR	1098														
SA24	9	7-7	STR	71														
SA25	18	14-9	STR	277														
SA26	7	7-8	STR	56														
SA27	6	14-11	STR	93														
SA28	14	AVG. 7-9	STR	113														
SA28					LENGTH VARIES FROM 7-8 TO 8-0													
SA29	7	7-10	STR	57														
SA30	10	7-8	STR	80														
SA31	6	14-7	STR	91														
SA32	6	7-10	STR	49														
SA33	7	7-8	STR	56														
SA34	18	AVG. 4-11	STR	94														
SA34					VARIES FROM 4-4 TO 5-7													
SA35	18	2-8	STR	50														
SUBTOTAL	PLAIN BARS			2629	THIS POUR													

MARK	NO.	LENGTH	TYP	WEIGHT	A	B	C	D	E	F	G	H	J	K	L	R	S	T
POUR 4 WINGWALL OVERLAY NE - SE																		
SA38	44	3-8	9	188		1-6	0-8	1-6										
SA39	4	14-7	STR	61														
SA40	4	5-8	STR	28														
SUBTOTAL	PLAIN BARS			253	THIS POUR													
POUR 5 HEADER																		
SA36	65	1-11	9	130		1-5	0-8	***										
SA37	2	33-0	STR	69														
SUBTOTAL	PLAIN BARS			199	THIS POUR													
POUR 6 PEDESTALS																		
SA42	3	12-10	7	40	0-6	2-1	4-0	3-8	***	2-1	0-6	0-4	0-8	2-1				
SA43	12	10-6	5	131	0-6	2-8	2-1				0-6		0-4					
SA44	35	2-8	9	97		2-2	0-6	***										
SUBTOTAL	PLAIN BARS			268	THIS POUR													
PIER																		
FOOTING POUR 1																		
1P1	12	47-0	STR	2998														
1P2	12	23-3	STR	1482														
1P3	18	10-4	STR	878														
1P4	2	14-7	STR	155														
1P5	11	58-3	STR	3287														
1P6	10	37-6	STR	1992														
9P7	41	11-6	STR	1603														
5P8	36	11-6	STR	432														
9P9	72	22-6	1	5508	1-3	21-3					***		0-11					
SUBTOTAL	PLAIN BARS			18333	THIS POUR													
COLUMN POUR 2																		
5P10	72	AVG. 12-10	5	984	0-6	AVG. 3-3	2-6				0-6		0-4					
5P10					D VARIES FROM 2-11 TO 3-7													
SUBTOTAL	PLAIN BARS			984	THIS POUR													
CAPBEAM POUR 3																		
8P11	18	39-2	8	1883		32-3	6-11	***				3-0		6-3				
5P12	2	55-2	STR	121														
5P13	4	32-0	STR	134														
5P14	8	33-7	STR	280														
5P15	106	2-6	STR	276														
6P16	88	AVG. 13-2	5	1345	0-10	1-8	AVG. 4-1				0-10		0-7					
8P16					C VARIES FROM 2-7 TO 5-7													
6P17	84	16-2	5	1554	0-10	1-8	5-7				0-10		0-7					
8P18	18	30-9	8	1479		23-10	6-11	***				3-0		6-3				
9P19	9	48-3	1	1476	1-3	47-0					***		0-11					
9P20	9	24-5	1	747	1-3	23-2					***		0-11					
8P21	18	12-2	1	555	0-11	11-3					***		0-8					
9P22	2	14-7	STR	99														
SUBTOTAL	PLAIN BARS			9979	THIS POUR													
PEDESTALS POUR 4																		
5P23	58	2-6	9	156		***	0-6	2-2										
5P24	19	12-6	5	251	0-6	2-6	3-2				0-6		0-6					

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BARLIST SHEET NO. 2

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

PROJ. ENG. J. SHERMAN	DATE MADE 7/20/79
SQUAD K. CLASSEN	DRAWING NO. 32 OF 53

DETAILED BY _____ DETAIL CHECKED BY _____
DESIGN CHECKED BY _____
DESIGNED BY _____

D96243

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
	NEW YORK	I-88-2(10)	284B1	284

I88-ROUTE 7 CONN. TO N.Y.S. THRUWAY
SCHENECTADY - DUANESBURG, PART 1, S.H. 880
SCHENECTADY COUNTY

CAPITOL PROJECT IDENTIFICATION NO. 1357.04

MARK	NO.	LENGTH	TYP	WEIGHT	A	B	C	D	E	F	G	H	J	K	L	R	S	T
SUBTOTAL	PLAIN BARS			407	THIS	POUR												
SUPERSTRUCTURE SLAB																		
SSE1	47	21-4	STR	1046														
SSE2	141	60-0	STR	8825														
SSE3	47	39-8	STR	1928														
SSE4	78	22-2	STR	1804														
SSE5	234	60-0	STR	14845														
SSE6	78	40-2	STR	3259														
SSE7	84	15-2	STR	1914														
SSE8	84	60-0	STR	7570														
SSE9	506	60-0	STR	31889														
SSE10	1012	5-4	1	5625	0-7	4-9					***		0-5					
SSE11	500	60-0	STR	31794														
SSE12	1016	4-9	STR	5034														
SSE13	468	3-9	20	1831		***		0-9	1-0			1-0						
SSE14	18	9-1	STR	171														
SSE15	18	8-5	STR	153														
SSE16	108	2-11	15	326				1-5				0-5	0-9		0-9		1-1	
SSE17	12	2-9	STR	34														
SSE18	4	3-11	STR	16														
SSE19	16	60-0	STR	1001														
CSE20	88	4-1	15	542				1-9				***	1-1		2-1		2-8	
SSE21	35	20-3	STR	739														
SSE22	202	2-2	STR	1243														
SSE23	42	21-10	STR	957														
SSE24	4	2-6	STR	15														
SUBTOTAL	PLAIN BARS			60082	THIS	POUR												
SUBTOTAL	EPOXY BARS			62074	THIS	POUR												
WEST APPROACH SLAB																		
SW1	84	50-8	STR	3371														
SW2	18	58-8	STR	1081														
SW3	24	32-2	STR	805														
SW4	18	AVG. 31-8	STR	524														
SW4					VARIES FROM 5-7 TO 57-2							(2 Sets of 9)						
SW5	154	8-8	STR	1504														
SW6	154	AVG. 43 0	STR	9937														
SW6					VARIES FROM 39-8 TO 48-5							(1 Set of 52 and 1 Set of 102)						
SW7	19	13-9	STR	392														
SW8	24	8-0	STR	288														
SW9	19	AVG. 14-1	STR	402														
SW9					VARIES FROM 13 9 TO 16-3							(1 Set of 7 and 1 Set of 12)						
SW10	8	5-0	15	80				1-9				***	1-0		3-1		3-3	
SWE11	12	3 3	STR	59														
SWE12	9	8-8	STR	83														
SWE13	18	4-4	15	105				1-9				***	1-2		2-4		2-7	
SWE14	14	21-5	STR	313														
SWE15	70	2-2	STR	228														
SWE16	2	2-8	STR	8														
SUBTOTAL	PLAIN BARS			18545	THIS	POUR												
SUBTOTAL	EPOXY BARS			776	THIS	POUR												
EAST APPROACH SLAB																		
SE1	84	50-8	STR	3371														
SE2	18	58-8	STR	1081														
SE3	24	32-2	STR	805														
SE4	18	AVG. 29-7	STR	498														

MARK	NO.	LENGTH	TYP	WEIGHT	A	B	C	D	E	F	G	H	J	K	L	R	S	T
SE4					VARIES FROM 3-10 TO 55-4					(2 Sets of 8)								
SE5	154	8-8	STR	1504														
SE6	154	AVG. 43-0	STR	9937														
SE6					VARIES FROM 39-8 TO 48-5					(1 Set of 52 and 1 Set of 102)								
SE7	19	13-8	STR	385														
SE8	24	8-0	STR	288														
SE9	19	AVG. 13-10	STR	396														
SE9					VARIES FROM 13-8 TO 16-3					(1 Set of 7 and 1 Set of 12)								
SE10	8	5-0	15	80				1-9				***	1-0		3-1		3-3	
SWE11	12	3-3	STR	59														
SWE12	9	8-8	STR	83														
SWE13	18	4-4	15	105				1-9				***	1-2		2-4		2-7	
SWE14	14	22-3	STR	325														
SWE15	74	2-2	STR	241														
SWE16	2	2-8	STR	8														
SUBTOTAL	PLAIN BARS			18501	THIS	POUR												
SUBTOTAL	EPOXY BARS			801	THIS	POUR												
TOTAL	PLAIN BARS			60082	IN SUPERSTRUCTURE													
TOTAL	EPOXY BARS			62074	IN SUPERSTRUCTURE													
TOTAL	PLAIN BARS			~~42611~~ 42611 ~~42684~~ **	IN SUBSTRUCTURE													
TOTAL	PLAIN BARS			~~86646~~ 86646	IN MISCELLANEOUS													
TOTAL	EPOXY BARS			~~1887~~ 1887 ~~1877~~ *	IN MISCELLANEOUS													
TOTAL	PLAIN BARS			~~141925~~ 142339	ENTIRE STRUCTURE													
TOTAL	EPOXY BARS			~~63961~~ 63961	ENTIRE STRUCTURE													

* INCLUDES 310 LBS. OF ADDITIONAL EPOXY COATED BARS IN REINFORCING CAGE ON DECK AND APPROACH SLABS AS REQUIRED BY EI 81-4 (JAN. 6, 1981) WHICH STATES: "LONGITUDINAL REINFORCING BARS SHALL BE CONTINUOUS BETWEEN JOINTS IN THE BRIDGE SUPERSTRUCTURE"

** INCLUDES ADDITIONAL BARS TO INCREASE SIZE OF UPPER MAT IN PIER FOOTING. (584 LBS) REFER TO NOTE ON SHEET # 268.

DETAIL CHECKED BY

DETAILED BY

DESIGN CHECKED BY

DESIGNED BY

REVISIONS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
DIVISION OF DESIGN AND CONSTRUCTION

BARLIST SHEET NO. 3

BRIDGE NO. 3 RAMPS P AND L
OVER N.Y.S. THRUWAY AND RAMP L

PROJ. ENG. J. SHERMAN	DATE MADE 7/20/79
SQUAD W. CLASSEN	DRAWING NO. 33 OF 33