

INDEX OF DRAWINGS		
DWG. NO.	TITLE OF DRAWING	SHT. NO.
1	TITLE SHEET	1
2	DETAILED INDEX OF DRAWINGS AND WORK TO BE DONE	2
3	GENERAL NOTES	3
4	COMBINED ESTIMATE OF QUANTITIES	4
COMMON DETAILS		
C1	EXCAVATION AND BACKFILL	5
C2	ABUTMENT REINFORCING ELEVATION AND SECTION	6
C3	ABUTMENT STEM REINFORCING	7
C4	WINGWALL ELEVATIONS AND SECTIONS	8
C5	WINGWALL SECTIONS AND FOOTING REINFORCING	9
C6	PROPOSED PIER PLAN AND ELEVATION - 1	10
C7	PROPOSED PIER PLAN AND ELEVATION - 2	11
C8	PROPOSED PIER PLAN AND ELEVATION - 3	12
C9	PROPOSED PIER REINFORCEMENT - 1	13
C10	PROPOSED PIER REINFORCEMENT - 2	14
C11	PROPOSED PIER REINFORCING DETAILS	15
C12	PROPOSED PIER FOOTING REINFORCEMENT PLANS	16
C13	PROPOSED PIER FOOTING & PEDESTAL REINFORCEMENT	17
C14	PROPOSED PIER PILE LAYOUTS	18
C15	MULTI-ROTATIONAL FIXED BEARING DETAILS	19
C16	GIRDER ELEVATION AND DETAILS	20
C17	BOLTED SPLICE DETAILS AND CAMBER DIAGRAM	21
C18	PROPOSED FRAMING PLAN AND DIAPHRAGM DETAILS	22
C19	MOMENT SHEAR AND LOAD TABLES	23
C20	CONCRETE BARRIER AND PROTECTIVE SCREENING LAYOUT	24
C21	BOX BEAM GUIDE RAIL TRANS. TO SINGLE SLOPE CONC. BARRIER	25
C22	CONC. BARRIER TRANS. TO HW BOX BEAM END CONN. DETAILS	26
C23	COMMON DETAILS BOXBEAM GUIDE RAIL TRANS. TO CONC. BARRIER	27
C24	PROTECTIVE SCREENING DETAILS	28
C25	DECK REINFORCING DETAILS	29
C26	APPROACH SLAB DETAILS	30
C27	STANDARD BARBEND DETAILS	31
A1-A20	MP 317.46 - GRAVEL ROAD BRIDGE REPLACEMENT DETAILS	32-51
B1-B14	MP 319.19 - BLACK BROOK ROAD BRIDGE REPLACEMENT DETAILS	52-65
D1-D14	MP 321.08 - BIRDSEY ROAD BRIDGE REPLACEMENT DETAILS	66-79
E1-E14	MP 324.16 - NINE FOOT ROAD BRIDGE REPLACEMENT DETAILS	80-93
F1-F14	MP 324.79 - GRANGE HALL ROAD BRIDGE REPLACEMENT DETAILS	94-107
MPT1-MPT6	TRAFFIC SAFETY SHEETS & DETOURS	108-113

SYRACUSE DIVISION
PLANS FOR THE
REPLACEMENT OF FIVE BRIDGES

AT
M.P. 317.46 BIN 5510400 M.P. 324.16 BIN 5510480
M.P. 319.19 BIN 5510430 M.P. 324.79 BIN 5510490
M.P. 321.08 BIN 5510450

IN
SENECA COUNTY
113 SHEETS TAS 98-8B

TYPE OF CONSTRUCTION:
BRIDGE REPLACEMENTS WITH RELATED APPROACH WORK.

STANDARD SHEETS:
M606-3, M606-6, M606-15,
M607-2, M609-3, M619-3, M619-4, M619-5

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS ADOPTED JANUARY 2, 1995 INCLUDING CURRENT ADDITIONS AND MODIFICATIONS, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE PROPOSAL.

BRIDGE MAINTENANCE GUIDELINES

UPON COMPLETION OF THIS PROJECT, THE BRIDGE STRUCTURES REPAIRED, REHABILITATED OR RECONSTRUCTED HEREUNDER SHALL BE MAINTAINED IN ACCORDANCE WITH THE CURRENT AASHTO MANUAL FOR BRIDGE MAINTENANCE, AND THE NEW YORK STATE THRUWAY AUTHORITY MAINTENANCE DIRECTIVES: MD 98-3, COMPREHENSIVE BRIDGE MANAGEMENT PROGRAM, AND MD 95-5, BRIDGE INSPECTION PROGRAM.

SPECIAL MAINTENANCE REQUIREMENTS: NONE

NOTES:

WARNING: IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW FOR ANY PERSON UNLESS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER AN ITEM ON THESE PLANS IN ANY WAY. IF ALTERATIONS TO THESE PLANS ARE REQUIRED, THE ALTERATIONS SHALL BE MADE IN ACCORDANCE WITH ARTICLE 145 - SUBSECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

SIGNATURES HEREON HAVE BEEN AFFIXED BY PERSONS ACTING IN THEIR OFFICIAL CAPACITY AS INDICATED.

MAINTENANCE JURISDICTION

100% MUNICIPALITY
APPROACH GUIDE RAILING, APPROACH PAVEMENT, APPROACH SLAB AND SHOULDERS AND WEARING COURSE.
M.P. 317.46, 321.08 AND 324.16 - SENECA COUNTY
M.P. 319.19 - TOWN OF TYRE
M.P. 324.79 - TOWN OF JUNIUS

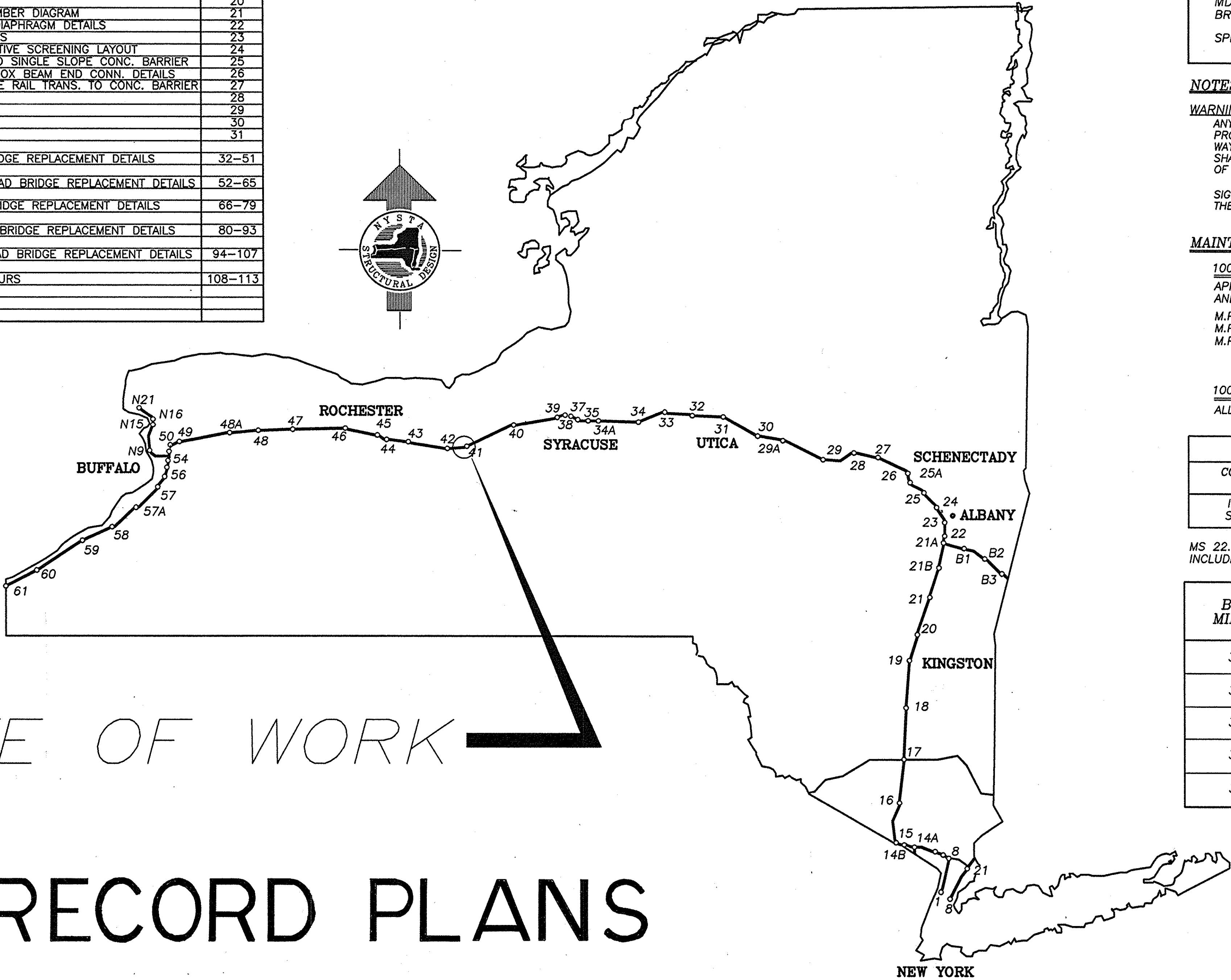
100% AUTHORITY
ALL OTHER BRIDGE ELEMENTS NOT LISTED ABOVE.

LOAD RATING TABLE

CONTROLLING MEMBER	INVENTORY LOAD RATING	OPERATING LOAD RATING
INTERIOR STRINGER	MS 23 (32 MTONS)	MS 48 (68 MTONS)

MS 22.5 LIVE LOADING - WORKING STRESS DESIGN.
INCLUDES FUTURE WEARING COURSE OF 1.2 kPa

BRIDGE MILEPOST	WORK LIMIT		CONTRACT LIMIT	
	FROM STA.	TO STA.	EQUALITY STA. (m)	
			LEFT	RIGHT
317.46	0+111	0+780	0+331.35	13+912.60
319.19	0+172	0+795		
321.08	0+080	0+737		
324.16	0+100	0+734		
324.79	0+100	0+814		



SITE OF WORK

RECORD PLANS

CONTRACTOR'S NAME: TIOGA CONSTRUCTION CO., INC.
AWARD DATE: 5/26/98
COMPLETION DATE: 11/19/99
FINAL ACCEPTANCE DATE: 12/17/99
INSPECTION FIRM'S NAME: PASSERO ASSOC., P.C.
RESIDENT ENG./EIC: JOHN C. HOFFMAN
FINAL COST TOTAL: \$3,481,818.52

FISCAL SHARE	COST(S)

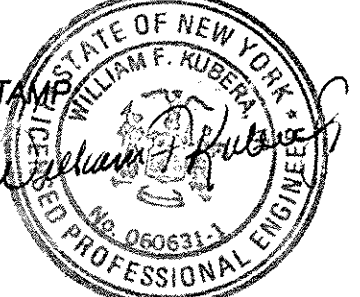
INSPECTION FIRM CONSULTANT STAMP:

RECOMMENDED BY: [Signature] 3/24/98 DATE
DIRECTOR, OFFICE OF FACILITIES DESIGN
RECOMMENDED BY: [Signature] 3/25/98 DATE
DIRECTOR, OFFICE OF TRAFFIC ENGINEERING
RECOMMENDED BY: [Signature] 3/25/98 DATE
DIRECTOR, OFFICE OF CONTRACTS AND CONSTRUCTION MANAGEMENT
RECOMMENDED BY: [Signature] 3/24/98 DATE
SUPERINTENDENT OF THRUWAY MAINTENANCE
APPROVED BY: [Signature] 3/25/98 DATE
CHIEF ENGINEER

PREPARED BY:
BRYANT ASSOCIATES, P.C.
ENGINEERS - SURVEYORS

FOR SHEETS
32 THRU 51

SIGNATURE:
CONSULTANT STAMP



INDEX OF DRAWINGS


DWG. NO.	TITLE OF DRAWING	SHT. NO.
1	TITLE SHEET	1
2	DETAILED INDEX OF DRAWINGS AND WORK TO BE DONE	2R1
3	GENERAL NOTES	3
4	COMBINED ESTIMATE OF QUANTITIES	4R1
COMMON DETAILS		
C1	EXCAVATION AND BACKFILL	5R1
C2	ABUTMENT REINFORCING ELEVATION AND SECTION	6
C3	ABUTMENT STEM REINFORCING	7R1
C4	WINGWALL ELEVATIONS AND SECTIONS	8
C5	WINGWALL SECTIONS AND FOOTING REINFORCING	9
C6	PROPOSED PIER PLAN AND ELEVATION - 1	10R1
C7	PROPOSED PIER PLAN AND ELEVATION - 2	11R1
C8	PROPOSED PIER PLAN AND ELEVATION - 3	12R1
C9	PROPOSED PIER REINFORCEMENT - 1	13
C10	PROPOSED PIER REINFORCEMENT - 2	14
C11	PROPOSED PIER REINFORCING DETAILS	15
C12	PROPOSED PIER FOOTING REINFORCEMENT PLANS	16
C13	PROPOSED PIER FOOTING & PEDESTAL REINFORCEMENT	17R1
C14	PROPOSED PIER PILE LAYOUTS	18R1
C15	MULTI-ROTATIONAL FIXED BEARING DETAILS	19R1
C16	GIRDER ELEVATION AND DETAILS	20R1
C17	BOLTED SPLICE DETAILS AND CAMBER DIAGRAM	21R1
C18	PROPOSED FRAMING PLAN AND DIAPHRAGM DETAILS	22R1
C19	MOMENT SHEAR AND LOAD TABLES	23
C20	CONCRETE BARRIER AND PROTECTIVE SCREENING LAYOUT	24R1
C21	BOX BEAM GUIDE RAIL TRANS. TO SINGLE SLOPE CONC. BARRIER	25R1
C22	CONC. BARRIER TRANS. TO HW BOX BEAM FND CONN. DETAILS	26
C23	COMMON DETAILS BOXBEAM GUIDE RAIL TRANS. TO CONC. BARRIER	27
C24	PROTECTIVE SCREENING DETAILS	28R1
C25	DECK REINFORCING DETAILS	29
C26	APPROACH SLAB DETAILS	30R1
C27	STANDARD BARBEND DETAILS	31
BRG-1+2 PIER BEARING TIE-DOWN RETROFIT DETAILS 1 AND 2 19F2+19F3		
MP 317.46 - GRAVEL ROAD BRIDGE REPLACEMENT DETAILS		
A1	EXISTING PLAN AND ELEVATION	32
A2	PROPOSED PLAN AND ELEVATION	33
A3	ESTIMATE OF QUANTITIES	34R1
A4	PROFILES	35
A5	EXISTING AND PROPOSED BRIDGE AND HIGHWAY SECTIONS	36
A6	EXCAVATION AND EMBANKMENT PLAN	37
A7	EXCAVATION AND EMBANKMENT SECTIONS	38
A8	EXISTING SUBSTRUCTURES - REMOVALS	39
A9	PROPOSED ABUTMENT PLAN AND ELEVATION	40R1
A10	ABUTMENT REINFORCING DETAILS	41
A11	MISCELLANEOUS ABUTMENT DETAILS	42
A12	PREFORMED FABRIC BEARING DETAILS (@ ABUTMENTS)	43
A13	MULTI-ROTATIONAL FIXED BEARING DETAILS (@ PIER)	44R1
A14	DECK SLAB - PLAN & DETAILS	45
A15	APPROACH SLAB - PLAN & DETAILS	46R1
A16	REINFORCING STEEL SCHEDULE - 1	47
A17	REINFORCING STEEL SCHEDULE - 2	48
A18	HAUNCH TABLE	49R1
A19	EXISTING AND PROPOSED GUIDE RAIL LAYOUT	50
A20	BRIDGE CLOSURE PLAN	51
MP 319.19 - BLACK BROOK ROAD BRIDGE REPLACEMENT DETAILS		
B1	EXISTING PLAN AND ELEVATION	52
B2	PROPOSED PLAN AND ELEVATION	53
B3	ESTIMATE OF QUANTITIES	54R1
B4	PROFILES	55
B5	EXISTING AND PROPOSED BRIDGE AND HIGHWAY SECTIONS	56
B6	EXISTING SOUTH ABUTMENT REMOVAL DETAILS	57
B7	EXISTING NORTH ABUTMENT REMOVAL DETAILS	58
B8	PROPOSED ABUTMENT PLAN AND ELEVATION	59R1
B9	EXISTING PIER REMOVAL DETAILS	60
B10	REINFORCING STEEL SCHEDULE - 1	61
B11	REINFORCING STEEL SCHEDULE - 2	62
B12	HAUNCH TABLE	63R1
B13	EXISTING AND PROPOSED GUIDE RAIL LAYOUT	64
B14	BRIDGE CLOSURE PLAN	65

DWG. NO.	MP 321.08 - BIRDSEY ROAD BRIDGE REPLACEMENT DETAILS	SHT. NO.
D1	EXISTING PLAN AND ELEVATION	66
D2	PROPOSED PLAN AND ELEVATION	67
D3	ESTIMATE OF QUANTITIES	68R1
D4	PROFILES	69
D5	EXISTING AND PROPOSED BRIDGE AND HIGHWAY SECTIONS	70
D6	EXISTING SOUTH ABUTMENT REMOVAL DETAILS	71
D7	EXISTING NORTH ABUTMENT REMOVAL DETAILS	72
D8	PROPOSED ABUTMENT PLAN AND ELEVATION	73R1
D9	EXISTING PIER REMOVAL DETAILS	74
D10	REINFORCING STEEL SCHEDULE - 1	75
D11	REINFORCING STEEL SCHEDULE - 2	76
D12	HAUNCH TABLE	77R1
D13	EXISTING AND PROPOSED GUIDE RAIL LAYOUT	78
D14	BRIDGE CLOSURE PLAN	79
MP 324.16 - NINE FOOT ROAD BRIDGE REPLACEMENT DETAILS		
E1	EXISTING PLAN AND ELEVATION	80
E2	PROPOSED PLAN AND ELEVATION	81
E3	ESTIMATE OF QUANTITIES	82R1
E4	PROFILES	83
E5	EXISTING AND PROPOSED BRIDGE AND HIGHWAY SECTIONS	84
E6	EXISTING SOUTH ABUTMENT REMOVAL DETAILS	85
E7	EXISTING NORTH ABUTMENT REMOVAL DETAILS	86
E8	PROPOSED ABUTMENT PLAN AND ELEVATION	87R1
E9	EXISTING PIER REMOVAL DETAILS	88
E10	REINFORCING STEEL SCHEDULE - 1	89
E11	REINFORCING STEEL SCHEDULE - 2	90
E12	HAUNCH TABLE	91R1
E13	EXISTING AND PROPOSED GUIDE RAIL LAYOUT	92
E14	BRIDGE CLOSURE PLAN	93
MP 324.79 - GRANGE HALL ROAD BRIDGE REPLACEMENT DETAILS		
F1	EXISTING PLAN AND ELEVATION	94R1
F2	PROPOSED PLAN AND ELEVATION	95
F3	ESTIMATE OF QUANTITIES	96R1
F4	PROFILES	97
F5	EXISTING AND PROPOSED BRIDGE AND HIGHWAY SECTIONS	98
F6	EXISTING SOUTH ABUTMENT REMOVAL DETAILS	99
F7	EXISTING NORTH ABUTMENT REMOVAL DETAILS	100
F8	PROPOSED ABUTMENT PLAN AND ELEVATION	101R1
F9	EXISTING PIER REMOVAL DETAILS	102
F10	REINFORCING STEEL SCHEDULE - 1	103
F11	REINFORCING STEEL SCHEDULE - 2	104
F12	HAUNCH TABLE	105R1
F13	EXISTING AND PROPOSED GUIDE RAIL LAYOUT	106
F14	BRIDGE CLOSURE PLAN	107
TRAFFIC SAFETY SHEETS & DETOURS		
MPT1	TWO LANE THRUWAY TRAFFIC CONTROL PLAN	108
MPT2	THRUWAY TRAFFIC PLANS FOR MISCELLANEOUS OPERATIONS	109
MPT3	MOVABLE AND SHORT TERM LANE CLOSURES	110
MPT4	DETOUR PLAN 1	111
MPT5	DETOUR PLAN 2	112
MPT6	DETOUR PLAN 3	113

WORK TO BE DONE

- 1998 - REPLACE BRIDGES AT MP'S 317.46 & 324.16⁷⁹ AND PERFORM RELATED APPROACH WORK.
- 1999 - REPLACE BRIDGES AT MP'S 319.19, 321.08 & 324.79¹⁶ AND PERFORM RELATED APPROACH WORK.

INDEX OF DRAWINGS REVISED

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT SENECA COUNTY			
TITLE OF DRAWING DETAILED INDEX AND WORK TO BE DONE			
		CONTRACT NUMBER: TAS 98-8B	
		DATE: 3/98	
		DRAWING NUMBER: 2	

ALSO SEE COMMON NOTES

CHECKED BY:

DRAFTED BY:

DESIGNED BY:

IN CHARGE OF: *Rick Adams*

GENERAL NOTES

- DESIGN SPECIFICATIONS: CURRENT NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH ALL INTERIM SPECIFICATIONS AND MODIFICATIONS AND 1981 NEW YORK STATE STEEL CONSTRUCTION MANUAL, INCLUDING CURRENT ADDITIONS AND MODIFICATIONS, EXCEPT AS MODIFIED BY THE NEW YORK STATE THRUWAY AUTHORITY STRUCTURES DESIGN MANUAL - SECOND EDITION.
 - LIVE LOAD: MS22.5. THE LOAD RATINGS ARE IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION FOR HIGHWAY BRIDGE DESIGN - LIVE LOAD CRITERIA.
 - CONCRETE DATA: THE MINIMUM CONCRETE COMPRESSIVE STRENGTH SHALL BE 35 MPa - "HP" AT 28 DAYS.
 - REINFORCING DATA: BAR REINFORCEMENT SHALL BE ASTM A615M-95 GRADE 400, MEETING THE REQUIREMENTS OF MATERIAL SPECIFICATION 709-01.
 - RECORD PLANS: RECORD PLANS COVERING PREVIOUS WORK WILL BE AVAILABLE FOR REVIEW BY ALL PROSPECTIVE BIDDERS AT THE AUTHORITY HEADQUARTERS IN ALBANY PRIOR TO THE LETTING DATE; REFER TO CONTRACT(S) OT 52-8, TAS 91-61B.
 - SUBSURFACE EXPLORATIONS HAVE BEEN MADE FOR THIS PROJECT AT LOCATIONS INDICATED ON THE GENERAL PLAN. BORING LOGS AND OTHER SUBSURFACE INFORMATION MADE AVAILABLE FOR THE INSPECTION OF BIDDERS WHEN OBTAINED WITH REASONABLE CARE AND RECORDED IN GOOD FAITH BY THE AUTHORITY.
 - THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT NO SPOIL AREA FOR SURPLUS MATERIALS IS AVAILABLE FOR THIS CONTRACT WITHIN THE AUTHORITY'S RIGHT-OF-WAY. THEREFORE, ALL MATERIAL TO BE REMOVED FROM THE JOB SITE SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE AUTHORITY'S PROPERTY. ALL COSTS ASSOCIATED WITH THE SPOIL AREA AND REMOVAL OF SPOIL MATERIAL SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.
 - THE CONTRACTOR SHALL HAVE AN ENGINEER LICENSED IN THE STATE OF NEW YORK PREPARE AND STAMP A SET OF PLANS AND ALL CALCULATIONS FOR THE FOLLOWING WORK:
 - * STRUCTURAL LIFTING
 - * JACKING FRAMES
 - * DEMOLITION AND REMOVAL OF STRUCTURES
 - * SUPERSTRUCTURE ERECTION
 - * LATERAL STABILITY OF ORDERS AND TEMPORARY SUPPORTS OF ANY CANTILEVERED SLABS DURING ANY STAGE OF CONSTRUCTION.
- PLANS AND CALCULATIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL AS DESCRIBED IN THE SHOP DRAWING SUBMITTAL PROCEDURE INCLUDED IN THE CONTRACT DOCUMENTS. AT LEAST TWO WORKING DAYS PER DRAWING, WITH A MINIMUM OF TEN WORKING DAYS MUST BE ALLOWED FOR EACH SET OF DRAWINGS SUBMITTED FOR THE AUTHORITY'S REVIEW. NO WORK MAY BEGIN UNTIL THE RESPECTIVE SUBMITTALS ARE APPROVED. ALL COSTS FOR PREPARING THESE PLANS AND CALCULATIONS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.
- WHEN PLACING NEW CONCRETE, ALL CONCRETE-TO-CONCRETE SURFACES SHALL RECEIVE AN APPLICATION OF EPOXY BONDING COMPOUND CONFORMING TO MATERIAL SPECIFICATION 721-03. IF ONE OF THESE SURFACES IS ORIGINAL CONCRETE, THE SURFACE SHALL ALSO BE SANDBLASTED TO THE SATISFACTION OF THE ENGINEER. ALL COSTS ASSOCIATED WITH APPLYING THIS EPOXY BONDING COMPOUND SHALL BE INCLUDED IN THE CONCRETE ITEMS. IN CASES WHERE THE EPOXY BONDING COMPOUND WOULD CURE PRIOR TO PLACING THE FRESH CONCRETE (AS DETERMINED BY THE E.I.C.), A 1:1 CEMENT MORTAR GROUT SHALL BE USED IN ITS PLACE.
 - ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH NFPA-70 (NATIONAL ELECTRICAL CODE).
 - ALL REINFORCING BAR CHAIRS AND SUPPORTS SHALL HAVE PLASTIC SHOES.

RECONSTRUCTION NOTES

- THE CONTRACTOR SHALL EXAMINE AND VERIFY, IN THE FIELD, ALL CONDITIONS AND DIMENSIONS. DIMENSIONS OF THE EXISTING STRUCTURES SHOWN ON THESE PLANS ARE FOR GENERAL REFERENCE ONLY. THEY HAVE BEEN TAKEN FROM THE ORIGINAL CONSTRUCTION OR SUBSEQUENT REHABILITATION DRAWINGS AND ARE NOT GUARANTEED. THE CONTRACTOR SHALL TAKE ALL SUCH FIELD MEASUREMENTS TO ASSURE PROPER FIT OF THE FINISHED WORK, AND THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR THEIR ACCURACY. IF FIELD CONDITIONS AND DIMENSIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL USE THE FIELD CONDITIONS AND DIMENSIONS AND MAKE THE APPROPRIATE CHANGES TO THOSE SHOWN ON THE PLANS, AS APPROVED BY THE ENGINEER. WHEN SHOP DRAWINGS BASED ON FIELD MEASUREMENTS ARE SUBMITTED FOR APPROVAL, THE FIELD MEASUREMENTS MADE SHALL BE INDICATED ON THE SHOP DRAWINGS SUBMITTED FOR REFERENCE OF THE REVIEWER.
- THERE SHALL BE NO CLAIM AGAINST THE AUTHORITY MADE BY THE CONTRACTOR FOR WORK PERTAINING TO MODIFICATIONS, AS MAY BE REQUIRED, DUE TO ANY DIFFERENCE BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND DIMENSIONS ON THE CONTRACT PLANS. THE CONTRACTOR WILL BE PAID AT THE UNIT BID PRICE FOR THE ACTUAL QUANTITIES OF MATERIALS USED OR FOR THE WORK PERFORMED, AS INDICATED BY THE VARIOUS ITEMS IN THE CONTRACT.

- THE CONTRACTOR SHOULD NOTE THAT ADDITIONAL WORK MAY BE REQUIRED AS THE CONTRACT PROGRESSES, WHICH IS NOT SHOWN OR NOTED ON THE PLANS. THIS WORK SHALL BE PERFORMED BY THE CONTRACTOR, AS ORDERED BY THE ENGINEER, AND PAYMENT SHALL BE MADE AT THE BID PRICE FOR THE APPROPRIATE ITEMS.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THAT FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGE TO THE EXISTING FACILITY CAUSED BY HIS OPERATIONS AND SHALL REPAIR ALL DAMAGE WITHOUT COST TO THE AUTHORITY, AND TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE AUTHORITY, WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF THE AUTHORITY, THE DAMAGED MATERIAL SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

REMOVAL, EXCAVATION AND BACKFILL NOTES

- THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY SUPPORTS, BRACING AND OTHER DEVICES REQUIRED OR DIRECTED BY THE ENGINEER TO PROTECT THE SAFETY OF THE ADJACENT STRUCTURES, ROADWAY AND UTILITIES.
- ALL EXCAVATIONS TO BE PLATED SHALL UTILIZE A MINIMUM 25 mm THICK PLATE. ALSO, THE EDGE OF THE PLATE FACING ONCOMING TRAFFIC SHALL BE BEVELED. THE PLATE SHALL BE SECURELY FASTENED DOWN TO THE SATISFACTION OF THE ENGINEER AND SHALL BE STRUCTURALLY CAPABLE OF CARRYING ALL IMPOSED LOADS.
- DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT DROP WASTE CONCRETE, DEBRIS OR OTHER MATERIAL TO ROADWAYS BELOW THE BRIDGE EXCEPT WHERE THE PLANS OR SPECIFICATIONS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL. PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED. IF MATERIAL FALLS ON THE AREA BELOW AND ADJACENT TO THE BRIDGE, IT SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR ON A REGULAR BASIS.
- THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS AND OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE APPROPRIATE ITEMS OF THE CONTRACT.
- EXCAVATION BELOW THE PROPOSED BOTTOM OF THE NEW FOOTING ELEVATION WILL NOT BE ALLOWED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER. BACKFILL OF UNAUTHORIZED EXCAVATIONS BELOW OR BEYOND PAYMENT LINES WILL BE AT THE CONTRACTOR'S EXPENSE. BACKFILL MATERIAL WILL BE CONCRETE FOR STRUCTURES CLASS A, ITEM 25555.01M, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- CARE SHALL BE EXERCISED IN EXCAVATING THE LAST 300 mm OF MATERIAL TO AVOID DISTURBING OR SOFTENING THE MATERIAL BELOW THE BOTTOM OF THE FOOTING ELEVATION. THE EXCAVATION SHALL BE PROGRESSSED CONTINUOUSLY TO COMPLETION, THE FOOTING PLACED, FORMS REMOVED AND BACKFILL MATERIAL PLACED AND COMPACTED WITHOUT DELAY.
- ALL EMBANKMENTS OF SELECT STRUCTURAL FILL, ITEM 203.21M, SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY AS DEFINED UNDER SUBSECTION 203-3.12 - COMPACTION.
- CARE SHALL BE TAKEN TO RETAIN NATURAL GROWTH AND PREVENT DAMAGE TO TREES WITHIN AND OUTSIDE THE LIMITS OF CONSTRUCTION, AND NOT SCHEDULED FOR REMOVAL. ANY DAMAGE CAUSED TO THIS NATURAL GROWTH
- SHALL BE RESTORED AT THE EXPENSE OF THE CONTRACTOR AS DIRECTED BY THE ENGINEER.
- THE COST OF FURNISHING AND PLACING WATER USED FOR SOD GUTTERS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE SODDING ITEM.
- THE COST OF ALL JOINT MATERIAL WILL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- HIGHWAY EMBANKMENT MATERIAL, SELECT STRUCTURAL FILL, ITEM 203.21M, AND/OR UNDERDRAIN FILTER MATERIAL, ITEM 605.0901M, 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 MATERIALS.
- THE INSTALLATION OF SELECT STRUCTURE FILL, ITEM 203.21M, AS SHOWN ON THE STRUCTURAL PLANS, SHALL BE COMPLETED IMMEDIATELY FOLLOWING THE COMPLETION OF ABUTMENTS OR WALLS.

SUBSTRUCTURE NOTES

- FOOTING ELEVATIONS MAY HAVE TO BE ADJUSTED SLIGHTLY DEPENDING ON THE ELEVATION OF BEDROCK. WHERE SOUND ROCK IS FOUND 0.6m OR LESS BELOW THE PLANNED ELEVATIONS OF THE BOTTOM OF FOOTING, BACKFILL OF CONCRETE FOR STRUCTURES CLASS A, ITEM 25555.01M, SHALL BE INSTALLED TO THE BOTTOM OF FOOTING ELEVATION SHOWN ON THE PLANS. BACKFILL CONCRETE MAY BE POURED MONOLITHICALLY WITH THE FOOTING CONCRETE. WHERE SOUND ROCK IS FOUND MORE THAN 0.6 METER BELOW PLANNED ELEVATIONS OF THE BOTTOM OF FOOTING, THE CHIEF ENGINEER OR HIS DESIGNATED REPRESENTATIVE SHALL BE SO ADVISED AND A REDESIGN OF THE SUBSTRUCTURE MAY BE MADE.

- THE CONTRACTOR, WITH THE APPROVAL OF THE CHIEF ENGINEER OR HIS DESIGNATED REPRESENTATIVE, 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.
- ALL EXPOSED EDGES OF CONCRETE ARE TO BE CHAMFERED 25 mm UNLESS OTHERWISE NOTED.
- PENETRATING SEALER FOR CONCRETE, ITEM 25559.1696M, SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES OF THE SUBSTRUCTURES.
- ALL FORMING HARDWARE SUCH AS TIES AND "ALL THREADS" THAT ARE TO REMAIN IN THE CONCRETE SHALL BE ELECTROPLATED OR MADE OF A NON-FERROUS MATERIAL TO PREVENT CORROSION.

SUPERSTRUCTURE NOTES

- WELDING: WELDING SHALL CONFORM TO THE 1981 NEW YORK STATE STEEL CONSTRUCTION MANUAL, INCLUDING ALL APPENDA UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR SHALL NOTE THE FOLLOWING EQUIVALENCY OF THE EXISTING STRUCTURAL STEEL DESIGNATIONS TO THE DESIGNATIONS DESCRIBED IN THE 1996 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES (16TH EDITION):
- ALL UPDATED SPECIFICATIONS REFERENCED TO THE STEEL DESIGNATIONS BY AASHTO AND ASTM SHALL APPLY TO THE NEW STRUCTURAL STEEL USED ON THIS PROJECT.

OLD AASTO GRADE	NEW ASTM A709M GRADE	OLD AASTO GRADE	NEW AASHTO M270M GRADE	MIN. YIELD (MPa)	MIN. T.S. (MPa)
A36M	250	M183M	250	250	400
A572M	345	M223M	345	345	450
A588M	345W	M222M	345W	345	485
A852M	485W	M313M	485W	485	620
A514M	690	M244M	690	690	760
				620	690
A514M	690W	M244M	690W	690	760
				620	620

- STRUCTURAL STEEL: STRUCTURAL STEEL SHALL BE ASTM HPS485W, UNLESS OTHERWISE NOTED.
- SHOP DRAWINGS SHALL BE PREPARED AND SUBMITTED IN ACCORDANCE WITH THE NEW YORK STATE STEEL CONSTRUCTION MANUAL, EXCEPT AS MODIFIED BY THE SHOP DRAWING SUBMITTAL PROCEDURE INCLUDED IN THE CONTRACT DOCUMENTS, FOR THE FOLLOWING:
 - * STRUCTURAL STEEL
 - * BEARINGS
 - * BRIDGE RAILINGS
 - * PRECAST BARRIER
- ALL DECK FORMS USED SHALL BE EITHER REMOVABLE FORMS OR STAY-IN-PLACE FORMS.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT NO SEALER WAS APPLIED TO THE STRUCTURAL SLAB WHEN ORIGINALLY CONSTRUCTED OR REHABILITATED. THEREFORE, SOME DIFFICULTY MAY BE ENCOUNTERED WHEN REMOVING THE EXISTING WEARING COURSE AND SIDEWALKS FROM THE STRUCTURAL DECK.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND ADVISE THE AUTHORITY OF THE TYPE, SIZE AND WEIGHT OF ALL VEHICLES HE INTENDS TO USE ON THE STRUCTURE(S) DURING CONSTRUCTION BASED ON THE CONDITION OF THE EXISTING STRUCTURE(S). THIS DETERMINATION SHALL BE MADE BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK EMPLOYED AND PAID BY THE CONTRACTOR.

THE DETERMINATION BY THIS PROFESSIONAL ENGINEER IS TO BE SUBMITTED TO THE AUTHORITY 14 DAYS PRIOR TO THE USE OF ANY VEHICLES ON THE STRUCTURE(S) WITH ALL RESTRICTIONS ENUMERATED BY HIM/HER BEING STRICTLY ADHERED TO.

IN THE EVENT THAT THE CONTRACTOR/SUBCONTRACTOR FAILS TO COMPLY WITH THE INSTRUCTIONS OF THE PROFESSIONAL ENGINEER FOR THE USE OF ANY VEHICLE, THE WORK WILL BE IMMEDIATELY SUSPENDED UNTIL CORRECTIVE PROCEDURES SATISFACTORY TO THE PROFESSIONAL ENGINEER AND THE AUTHORITY ARE EMPLOYED.

COSTS OF ALL DAMAGE, DIRECT OR INDIRECT, SHALL BE BORNE AND SUSTAINED BY THE CONTRACTOR.

- PENETRATING SEALER FOR CONCRETE, ITEM 25559.1696M, SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES ON THE SUPERSTRUCTURE INCLUDING THE APPROACH SLAB, BUT EXCLUDING THE UNDERSIDE OF THE DECK BETWEEN THE DRIP EDGES.
- THE CONTRACTOR SHALL VERIFY THE LENGTH OF THE ANCHOR BOLT REQUIRED FOR ATTACHMENT OF THE PROTECTIVE SCREENING BASE PLATE.
- CLEANING OF WEATHERING STRUCTURAL STEEL:

IN THE FIELD

THE OUTSIDE SURFACE OF THE FASCIA GIRDERS SHALL BE CLEANED SO THAT ALL DIRT, GREASE, PAINT OR OTHER FOREIGN MATERIAL IS REMOVED AT THE COMPLETION OF THE BRIDGE CONSTRUCTION. THE PURPOSE OF THE CLEANING IS TO RETURN THE FASCIA SURFACES TO THE CONDITION IN WHICH THEY LEFT THE FABRICATION SHOP. THE COST FOR THIS WORK SHALL BE INCLUDED UNDER THE VARIOUS ITEMS OF THE CONTRACT.

- ALL DECK OVERHANG FORM SUPPORTS SHALL BE PROTECTED TO PREVENT DAMAGE TO THE PAINTED AND/OR BARE STEEL SURFACES.

UTILITY NOTES

- LOCATION OF UTILITIES, PUBLIC AND/OR PRIVATE, INDICATED AS EXISTING AND/OR TO BE CONSTRUCTED AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED IN THE FIELD. ADDITIONAL UTILITY LINES, WHETHER ABANDONED OR IN SERVICE, MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONDUCT HIS OPERATIONS AND TAKE THE NECESSARY PRECAUTIONS TO PREVENT INTERFERENCE WITH OR DAMAGE TO THESE OR OTHER FACILITIES DURING THE COURSE OF CONSTRUCTION.
- IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, HE/SHE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CEASE HIS/HER WORK OPERATION UNTIL SERVICE IS RESTORED.
- THE METHOD OF REMOVAL OF EXISTING ROADWAY OR SHOULDER PAVEMENT IN THE IMMEDIATE VICINITY OF UNDERGROUND UTILITIES SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

MAINTENANCE AND PROTECTION OF TRAFFIC NOTES

- MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE COMPLIED WITH THROUGHOUT THE LENGTH AND DURATION OF THE CONTRACT IN ACCORDANCE WITH "THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND THE CONTRACT DOCUMENTS.
- DISTANCES SHOWN ARE APPROXIMATE ONLY AND MAY BE REVISED BY THE ENGINEER-IN-CHARGE TO MEET FIELD CONDITIONS (DRIVEWAYS, HIGHWAY ALIGNMENT, ETC.).
- THE SIGNING SHOWN IS A MINIMUM ONLY. ADDITIONAL SIGNING MAY BE REQUIRED TO MEET TRAFFIC AND/OR FIELD CONDITIONS.
- WHERE THE EXISTING PAVEMENT MARKINGS ARE IN CONFLICT WITH THE DETOUR TRAFFIC PATTERNS, THEY SHALL BE REMOVED TO THE SATISFACTION OF THE ENGINEER-IN-CHARGE. WHEN THE WORK IS COMPLETED AND THE DETOUR IS REMOVED, THE CONTRACTOR SHALL REPLACE THE MARKING IN KIND UNDER THE APPROPRIATE ITEM.
- DURING NON-WORKING HOURS, ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED AT LEAST 10.0 METERS FROM THE EDGE OF THE PAVEMENT OR BE BEYOND THE DEFLECTION DISTANCE OF A GUIDE RAIL SYSTEM APPROVED BY THE ENGINEER.


MISCELLANEOUS NOTES

- THE CONTRACTOR IS ADVISED THAT ADDITIONAL "NOTES" WILL BE FOUND ON SUBSEQUENT SHEETS OF THE CONTRACT PLANS AND SUCH "NOTES", WHILE PERTAINING TO THE SPECIFIC SHEETS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.
- WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THE AREA SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THOSE ITEMS.
- IT WILL BE THE CONTRACTOR'S OBLIGATION AND RESPONSIBILITY TO USE METHODS AND EQUIPMENT WHICH WILL INSURE THE SATISFACTORY COMPLETION OF THE REQUIRED WORK.
- PROTECTION OF THE PUBLIC: THE CONTRACTOR SHALL MAINTAIN AND PROTECT AUTHORITY TRAFFIC IN ACCORDANCE WITH ITEM 619.01M, THE TRAFFIC CONTROL SHEETS AND PERTINENT PROVISIONS OF THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (1983 EDITION). THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF SECTION 107, LEGAL RELATIONS AND RESPONSIBILITY TO THE PUBLIC, OF THE STANDARD SPECIFICATIONS DATED JANUARY 2, 1995 INCLUDING CURRENT ADDITIONS AND MODIFICATIONS.
- IF THE CONTRACTOR IS APPROVED TO PERFORM NIGHTTIME OPERATIONS, THE WORK AREA SHALL BE ILLUMINATED FOR PROPER INSPECTION, SAFETY AND PERFORMANCE OF WORK.

NOAS-BUILT REVISIONS

1/24/92		<i>klf</i>	
DATE	DESCRIPTION	BY	SYM.

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS	
LOCATION OF PROJECT SENECA COUNTY	
TITLE OF DRAWING GENERAL NOTES	
	CONTRACT NUMBER: TAS 98-8B
	DATE: 3/98
	DRAWING NUMBER: 3

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

IN CHARGE OF: *XX* *Richard D. ...*
DESIGNED BY: *XX*
DRAFTED BY: *XX*
CHECKED BY: *XX*
FLY-BRIDGES COMMON EST

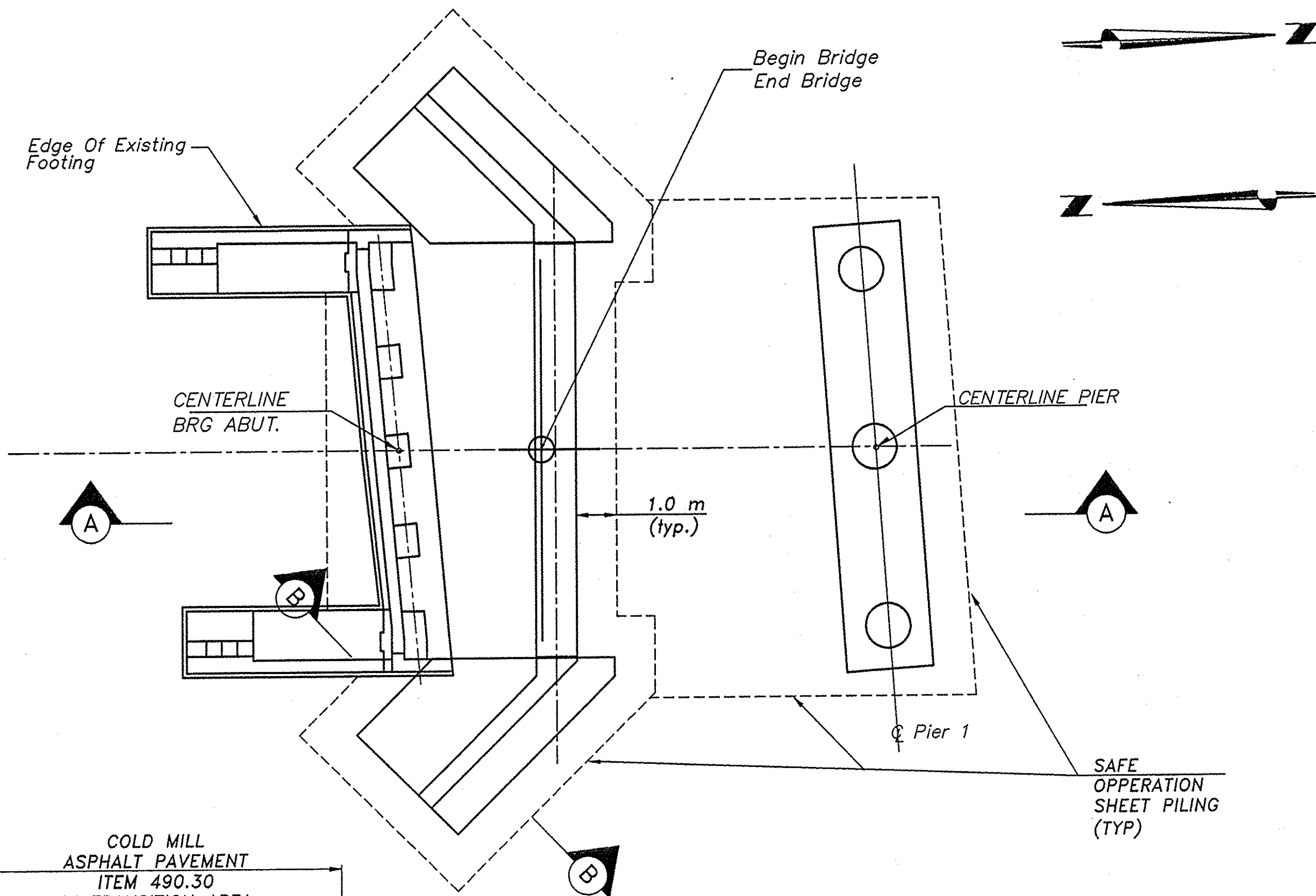
COMBINED ESTIMATE OF QUANTITIES				
ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
202.1201M	REMOVE EXISTING SUPERSTRUCTURE	LS	NEC	100.00
202.1202M	REMOVE EXISTING SUPERSTRUCTURE	LS	NEC	100.00
202.1203M	REMOVE EXISTING SUPERSTRUCTURE	LS	NEC	100.00
202.1204M	REMOVE EXISTING SUPERSTRUCTURE	LS	NEC	100.00
202.1205M	REMOVING EXISTING SUPERSTRUCTURES	LS	NEC	100.00
202.19M	REMOVAL OF SUBSTRUCTURES	CM	542.0	762.14
900.9808	A-SILT FENCE	M	—	177.42
203.02M	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	721.0	773.99
203.03M	EMBANKMENT IN PLACE	CM	360.0	360.00
901.9808	A-INSTALL PIER BEARING TIE-DOWN BRACKETS	EA	—	50.00
17203.0801M	SLCT GRANLR FLL, SLP PROT STRS	CM	215.0	407.20
902.9808	A-GEOTEXTILE BEDDING	SM	—	549.76
203.21M	SELECT STRUCTURE FILL	CM	3526.0	3147.44
903.9808	FA-RESET R.O.W. FENCING AT GRANGE # GRAVEL ROADS	LS	—	100.00
206.01M	STRUCTURE EXCAVATION	CM	4342.0	4244.01
207.03M	GEOTEXTILE UNDERDRAIN	SM	27.0	17.36
209.01M	TEMP. SOIL EROSION AND WATER POLLUTION CONTROL	FLS	1.0	0.00
304.03M	SUBBASE COURSE TYPE 2	CM	497.0	465.78
403.11M	ASPHALT CONCRETE TYPE 1 BASE COURSE	MT	254.0	292.88
403.13M	ASPHALT CONCRETE—TYPE 3 BINDER COURSE	MT	146.0	261.33
403.17M	ASPH CONC — TYPE 6F TOP COURSE (HIGH FRICTION)MARSHALL DESIGN	MT	248.0	298.71
403.21M	ASPHALT CONCRETE—TRUING & LEVELING COURSE	MT	28.0	13.23
407.01M	TACK COAT	L	467.0	223.82
904.9808	A-INSTALL ABUTMENT END DIAPHRAGMS AT GRAVEL ROAD	LS	—	100.00
490.30M	MISC. COLD MILL OF BIT CONC.	SM	1460.0	1252.65
905.9808	FA-AUGER & INSTALL H-PILES AT N&S ABUTMENTS - BLACK BROOK ROAD	LS	—	100.00
25502.5001M	SAWCUTTING OF ASPHALT CONCRETE	M	270.0	511.63
906.9808	A-RADAR DETECTORACTIVATOR	LS	—	100.00
551.09M	FURNISHING EQUIPMENT FOR DRIVING PILES	LS	NEC	100.00
551.1001M	STEEL BEARING PILES (HP 250 X 62)	M	1830.0	1561.68
551.11M	CAST-IN-PLACE CONC. PILES	M	584.0	339.73
551.14M	DYNAMIC PILE TESTING	EA	14.0	15.00
552.05M	SAFE OPERATE SHEET PILING	SM	1424.0	0.00
907.9808	A-PILE SPLICES	EA	—	22.00
25555.0101M	CONCRETE FOR STRUCTURES—CLASS HP	CM	1506.0	1486.71
908.9808	A-PROT. SCREENING FOR BRIDGES, ALTERNATE POST MOUNTING	EA	—	114.00
25555.0466M	HI PERF. CONC. FOR STRUC CL HP (ST SLAB W/ INT WEAR SUR BFR)	SM	3219.0	3219.00
25555.0468M	HP CONC FOR STRUCT, CLASS HP (STR APP SLAB W/INT WEAR SURF)	SM	520.0	520.00
556.03M	STUD SHEAR CONNEX. FOR BRIDGES	EA	12 450.0	13170.00
909.9808	A-ADDITIONAL SIGN SERIES	LS	—	100.00
25556.99M	GALV. BAR REINFORCEMENT FOR STR	KG	246 335.0	250356.03
910.9808	FA-RESET ROW FENCING AT BLACK BROOK BIRDSEY & NINE FOOT ROADS	LS	—	100.00
558.01M	TRANSVR SAWCUT GROOVE STR SLAB	SM	3244.0	3244.00
911.9808	A-PLANTING VIBURNUM TOMENTOSUM	EA	—	80.00
25559.1696M	PROT. SEAL OF STRUC. CONCRETE	SM	6398.0	6398.00
912.9808	FA-SOUTH ABUTMENT CONTRACTION JOINT REPAIR AT GRAVEL ROAD	LS	—	100.00
25564.519801M	TRANS. & ERECTION OF STRUCT. STEEL	LS	NEC	100.00
25564.519802M	TRANS. & ERECTION OF STRUCT. STEEL	LS	NEC	100.00
25564.519803M	TRANS. & ERECTION OF STRUCT. STEEL	LS	NEC	100.00
25564.519804M	TRANS. & ERECTION OF STRUCT. STEEL	LS	NEC	100.00
25564.519805M	TRANS. & ERECTION OF STRUCT. STEEL	LS	NEC	100.00
565.1722M	TYPE M.R. FIXED BEARINGS	EA	25.0	25.00

COMBINED ESTIMATE OF QUANTITIES				
ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
25565.2203M	PREFORMED FABRIC BEARINGS	EA	10.0	10.00
25569.02M	PERM. CONC. BARRIER CLASS HP	M	643.0	655.92
570.0901M	ENV. GROUND PROTECTION	LS	NEC	0.00
570.0902M	ENV. GROUND PROTECTION	LS	NEC	0.00
570.0903M	ENV. GROUND PROTECTION	LS	NEC	0.00
570.0904M	ENV. GROUND PROTECTION	LS	NEC	0.00
570.0905M	ENV. GROUND PROTECTION	LS	NEC	0.00
571.0101M	TREAT. & DISP. OF PAINT REM. WASTE	CM	1.0	0.00
605.1001M	UNDERDRAIN FILTER TYPE 2	CM	260.0	188.66
605.1502M	PERF COR POLYETHYLENE UNDRDRN TUBING 150 mm DIAMETER	M	43.0	38.00
606.10M	BOX BEAM GUIDE RAILING	M	36.0	52.12
606.13M	BOX BM. G.R. END ASSEM. TYPE II	EA	1.0	1.00
606.16M	CORRUGATED BEAM GUIDE RAILING	M	1792.0	1802.13
606.22M	ANCHORAGE UNIT FOR CORR. BM. G.R.	EA	19.0	19.00
606.51M	RESETTING CORR. BEAM GUIDE RAILING	M	580.0	566.64
606.71M	REM. & DISP. CORR. BM. G.R.	M	1448.0	1390.49
606.73M	REM. & DISP. BOX BM. GUIDE RAILING	M	565.0	546.01
606.7510M	REM. & DISP. CONC. BARR. HALF SEC.	M	245.0	225.78
606.7920M	REM. & DISP. BX. BM. END ASSEMBLY	EA	10.0	10.00
606.81M	G.R. TRANS. CORR. BM. TO BOX BM.	EA	19.0	19.00
606.8801M	BOX BM. G.R. TRANS. TO CONC. BARR.	EA	20.0	20.00
25607.0611M	PROTECTIVE SCREENING BRIDGES	M	576.0	571.00
609.0201M	STONE CURB — GRANITE (TYPE A)	M	106.0	94.65
611.034163M	PLANTING PINUS NIGRA	EA	40.0	40.00
611.046342M	PLANTING RHUS AROMATICA	EA	560.0	560.00
611.049662M	PLANTING VIBURNUM TOMENTOSUM	EA	80.0	0.00
619.01M	BASIC MAINTENANCE & PROTECTION OF TRAFFIC	LS	NEC	100.00
619.02M	CONSTRUCTION SIGNS	LS	NEC	100.00
619.0303M	FLASHING ARROW BOARDS	LS	NEC	100.00
619.0413M	TYPE III CONSTRUCT. BARRICADES	M	88.0	73.10
619.0502M	LIGHTING FOR CONST. BARRICADES	M	60.0	66.62
25619.1701M	TEMPORARY CONCRETE BARRIER	M	975.0	1340.00
25619.1704M	CONCRETE BARRIER MARKERS	EA	40	48.00
25637.070102M	ENGINEER'S OFFICE — TYPE C	MOS	20.0	19.00
25697.01M	INTERIM PAYMENTS	LS	NEC	0.00
699.04M	MOBILIZATION	LS	NEC	100.00

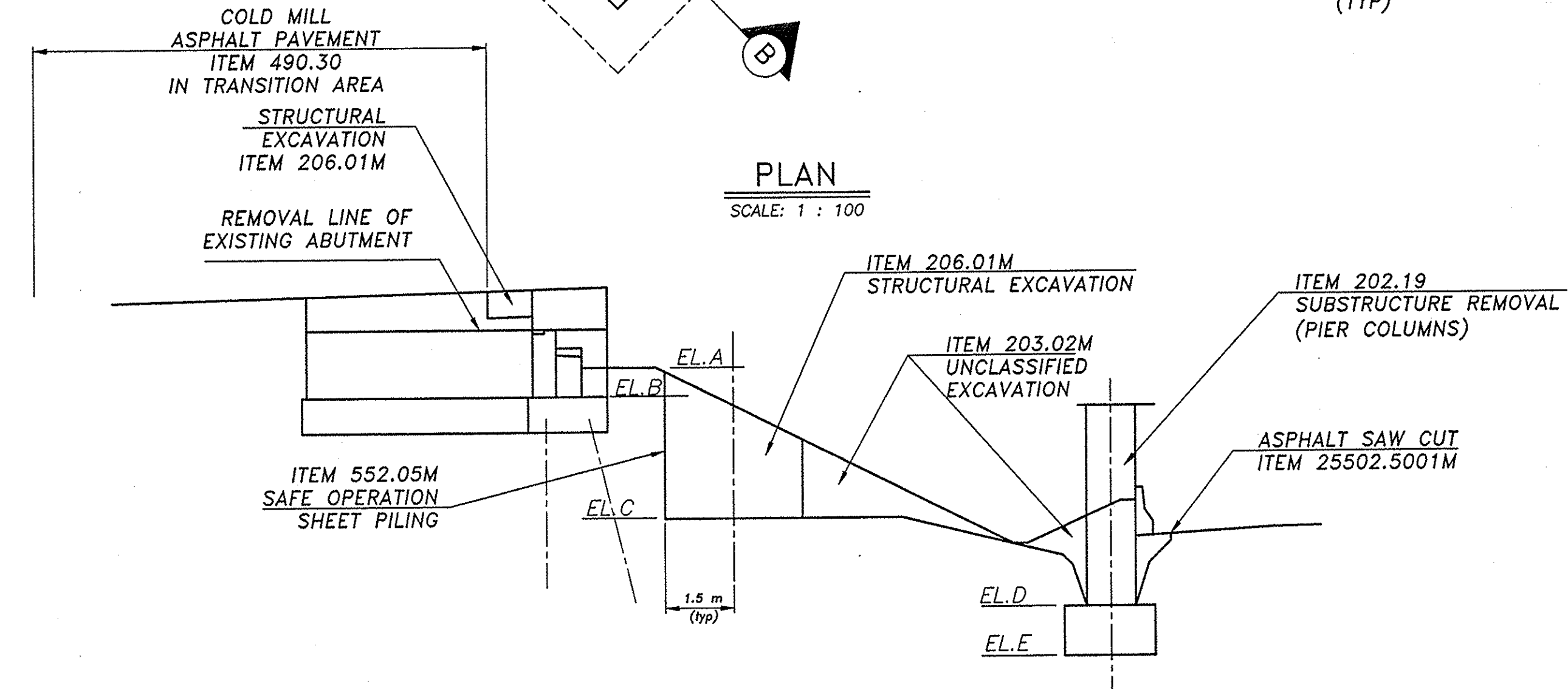
FINAL QUANTITIES SHOWN
NEW ITEMS LISTED

DATE	DESCRIPTION	BY	SYM.
12/1/00	NEW YORK STATE THRUWAY AUTHORITY	XX	
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT SENECA COUNTY			
TITLE OF DRAWING COMBINED ESTIMATE OF QUANTITIES			
CONTRACT NUMBER: TAS 98-8B		DATE: 3/98	
DRAWING NUMBER: 4			

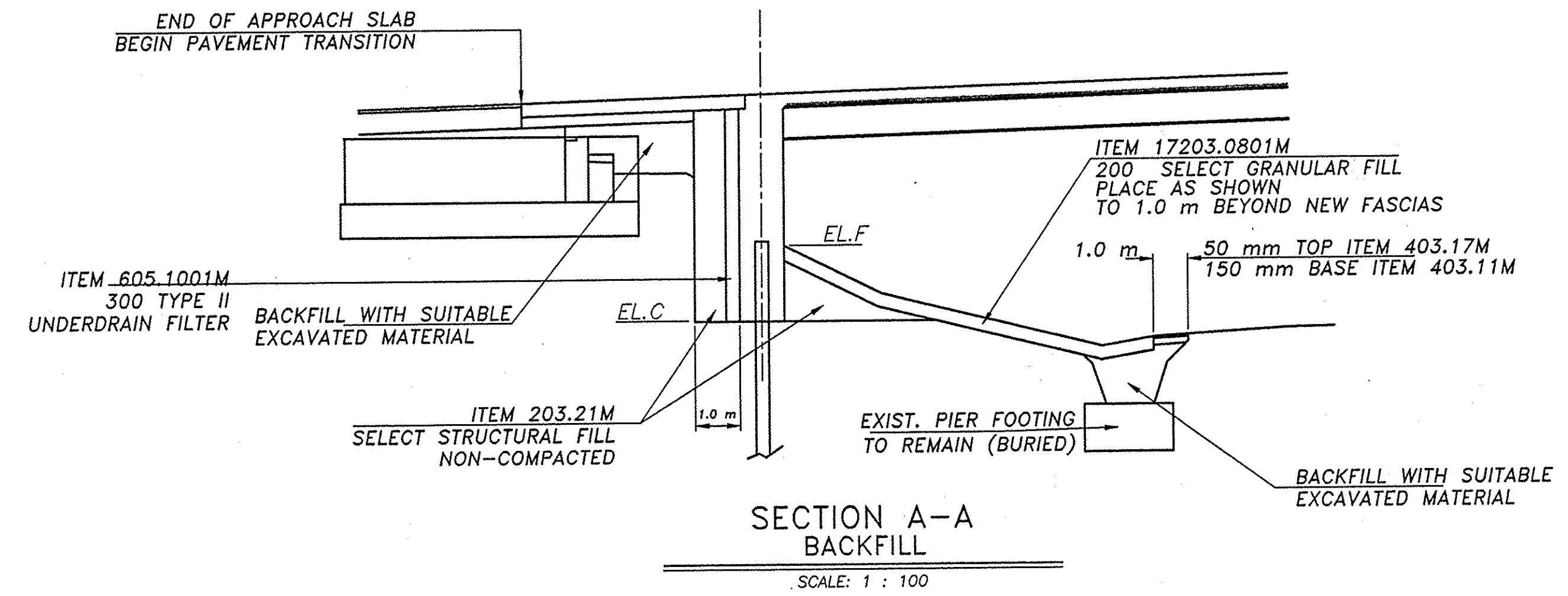
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IN CHARGE OF: *[Signature]*



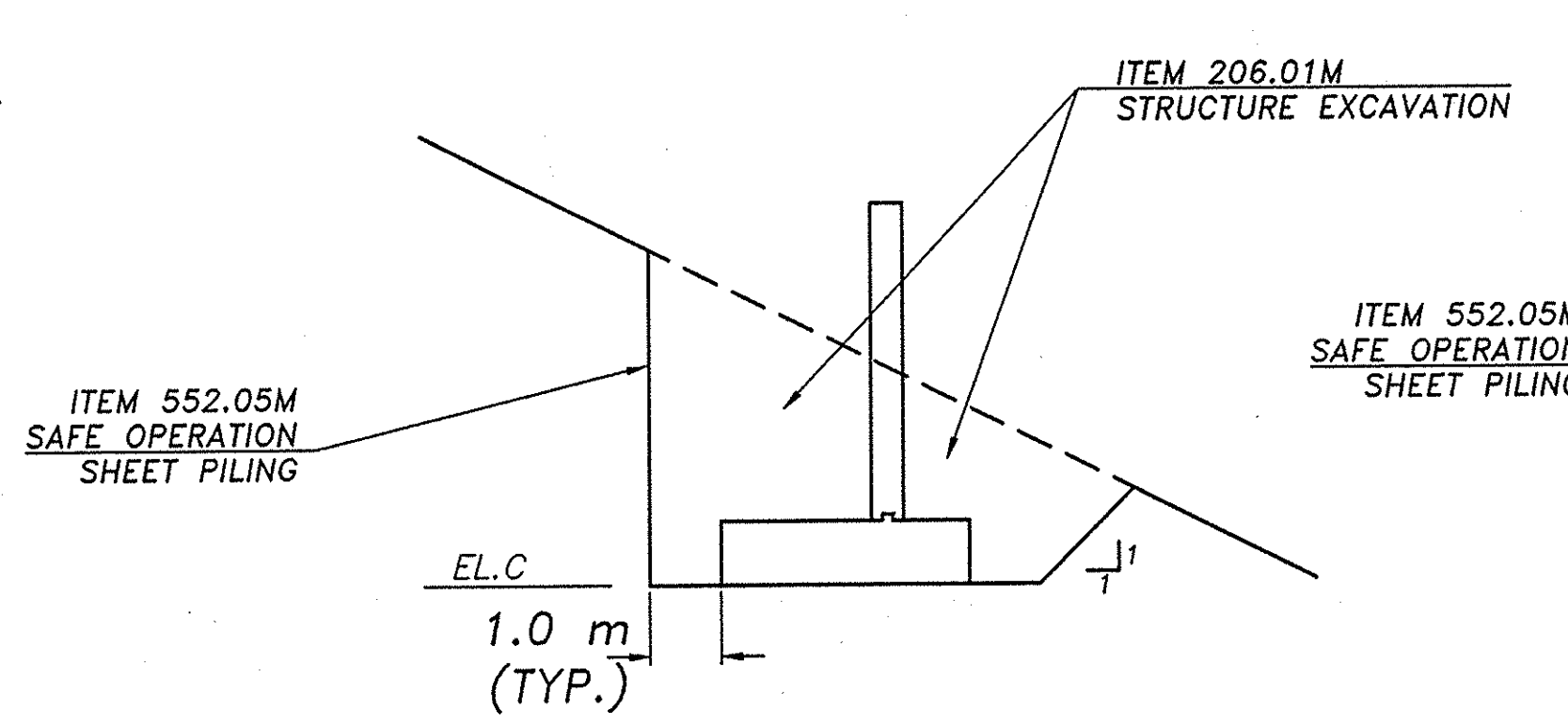
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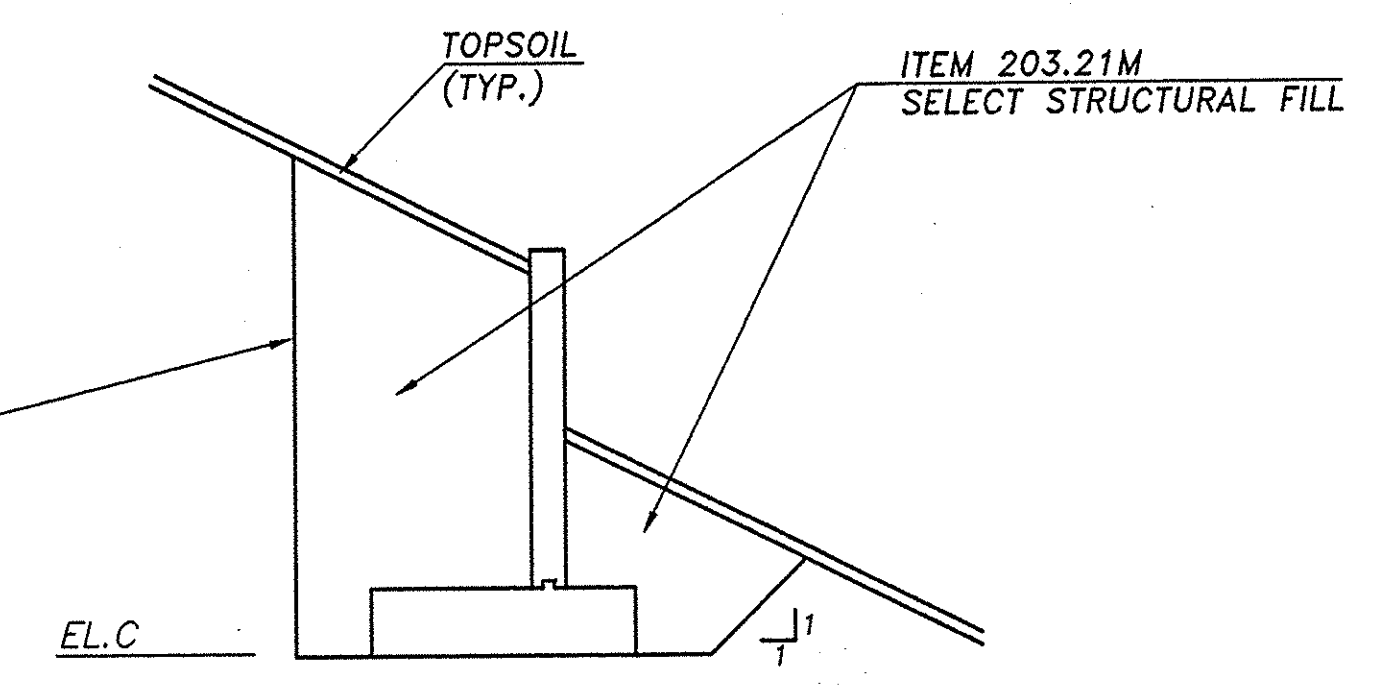
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EXCAVATION
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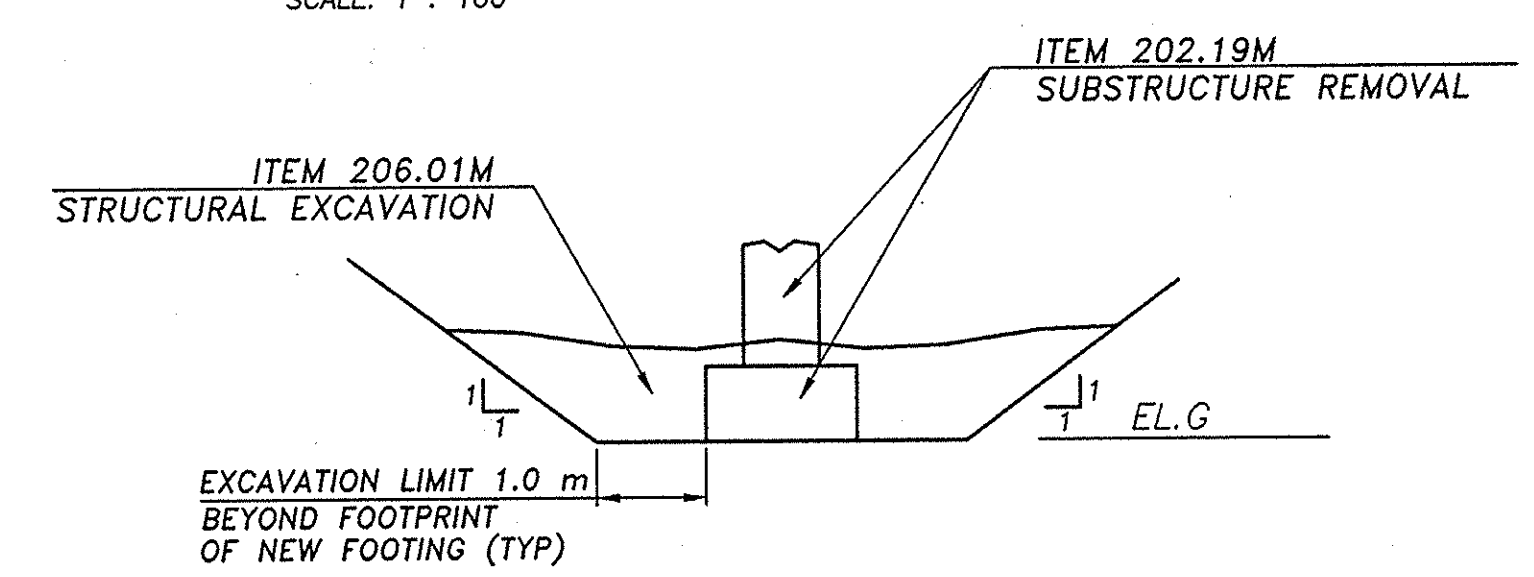
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BACKFILL
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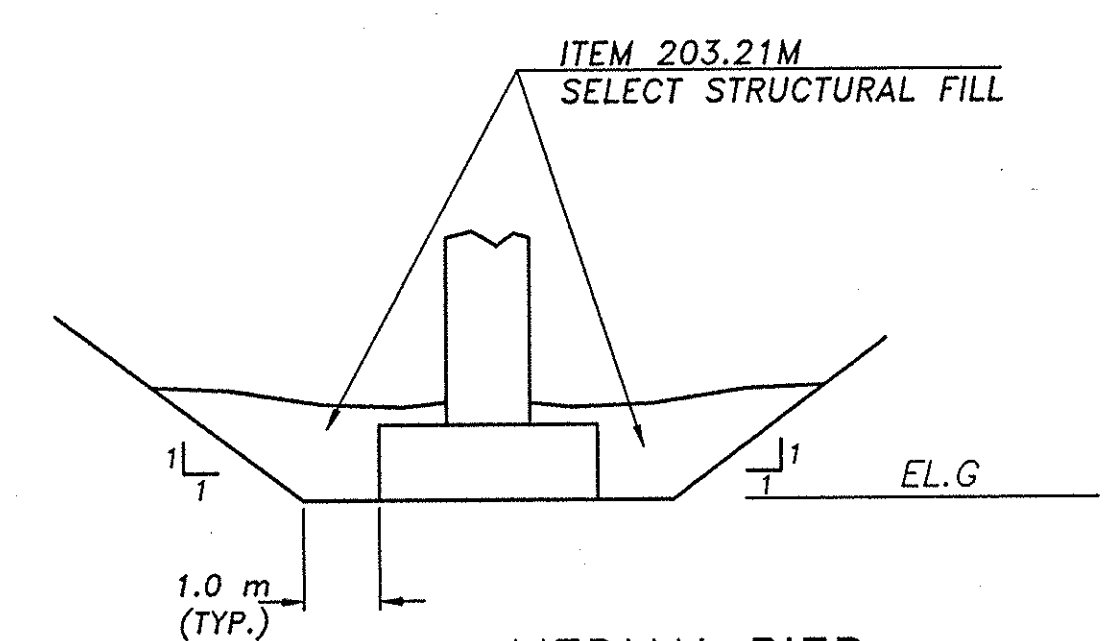
SECTION B-B
EXCAVATION
SCALE: 1 : 100



SECTION B-B
BACKFILL
SCALE: 1 : 100



MEDIAN PIER
EXCAVATION
SCALE: 1 : 100



MEDIAN PIER
BACKFILL
SCALE: 1 : 100

SUBSTRUCTURE EXCAVATION ELEVATIONS							
M.P.	A	B	C	D	E	F	G
319.19	150.0	149.574	146.50	144.932	143.865	148.5	144.23
321.08	158.3	157.825	155.0	153.50	152.43	156.5	152.43
324.16	154.9	154.467	151.70	150.266	149.199	153.2	149.35
324.79	155.6	155.201	152.40	151.269	150.202	153.9	150.04

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE
SHOWN IN METERS.

ELEV C-MP319.19 REVISED
*MP 319.19 - BLACK BROOK ROAD
MP 321.08 - BEARDSEY ROAD
MP 324.16 - NINE FOOT ROAD
MP 324.79 - GRANGE HALL ROAD

DATE	DESCRIPTION	BY	SYM.
1/24/02	Kenneth W. Mason		

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA COUNTY *

TITLE OF DRAWING
EXCAVATION AND BACKFILL



CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
C1

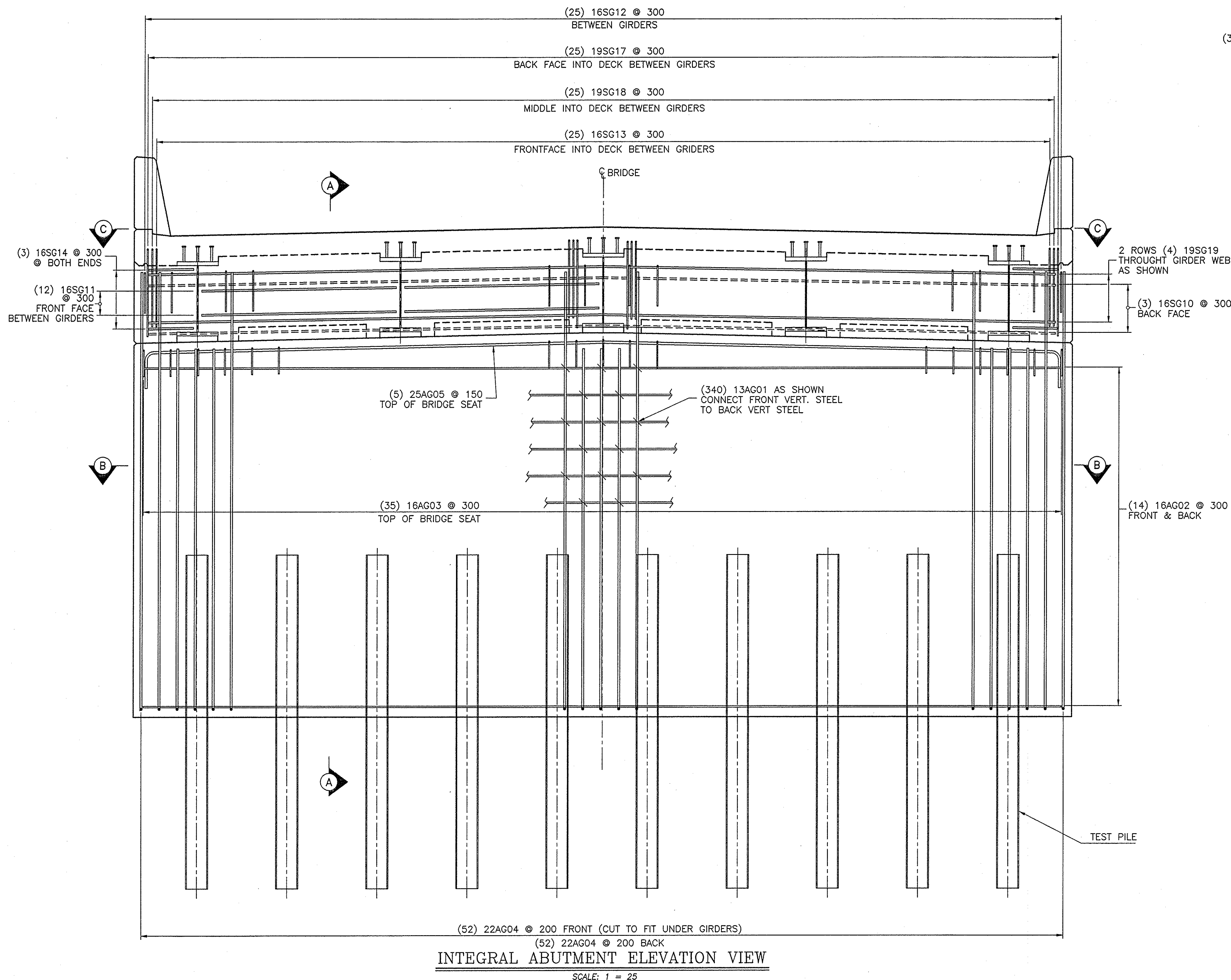
AS BRIDGES COMMON ABUTMENT

CHECKED BY: XX

DRAFTED BY: XX

DESIGNED BY: XX

IN CHARGE OF: XX

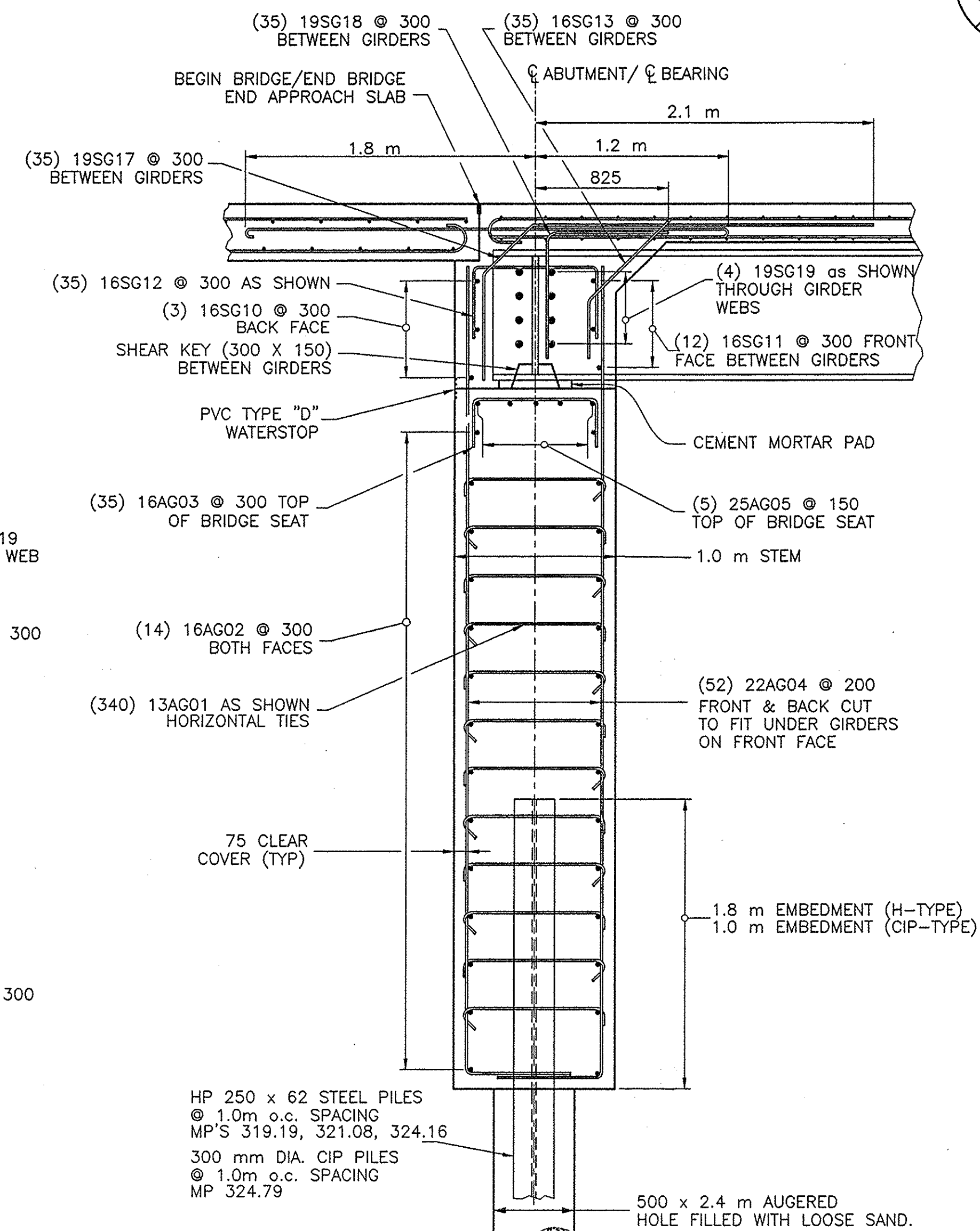


INTEGRAL ABUTMENT ELEVATION VIEW

SCALE: 1 = 25

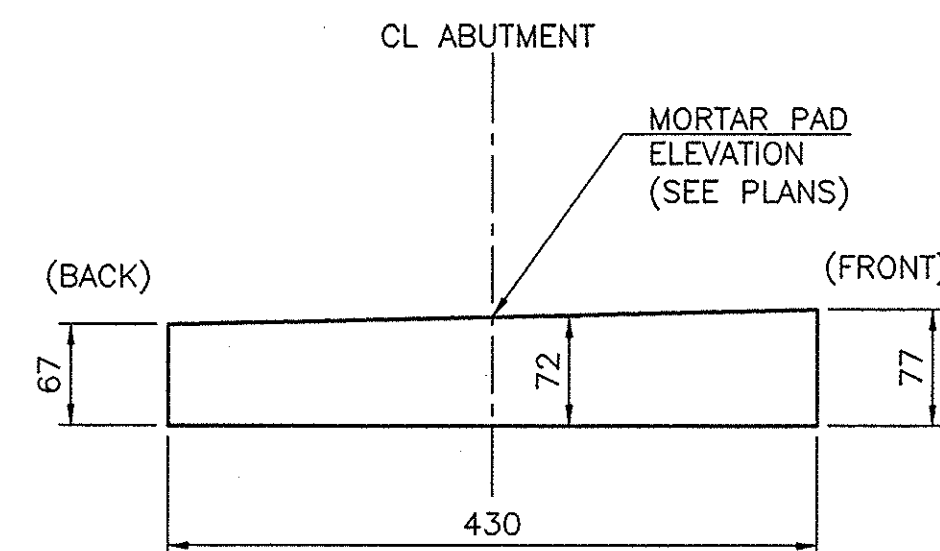
ABUTMENT PILE NOTES:

1. THE STEEL - "H" PILES SHOWN ARE DESIGNED TO SUPPORT A MAXIMUM ALLOWABLE LOAD OF 390 KILONEWTONS PER PILE AND SHALL BE DRIVEN TO ACHIEVE AN ULTIMATE CAPACITY OF 494 KILONEWTONS PER PILE (ITEM 551.1001M).
2. THE CIP PILES SHOWN ARE DESIGNED TO SUPPORT A MAXIMUM ALLOWABLE LOAD OF 390 KILONEWTONS PER PILE AND SHALL BE DRIVEN TO ACHIEVE AN ULTIMATE CAPACITY OF 445 KILONEWTONS PER PILE (ITEM 551.11M).
3. SEE ADDITIONAL NOTES ON PIER SHEETS.
4. SEE DRAWING C3 FOR CIP PILE DETAILS.



SECTION A-A

SCALE: 1 = 25



MORTAR PAD GRADE DETAIL

N. T. S.

NOTE:
SEE NEW ABUTMENT PLAN AND ELEVATION SHEETS FOR MORTAR PAD ELEVATIONS.

NOTE:
THE DETAILS ON THIS SHEET ARE COMMON TO THE BRIDGES AT MILEPOSTS 319.19, 321.08, 324.16 AND 324.79. FOR THE BRIDGE AT MP 317.46, SEE SHEETS 32-51.

NOTE:
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

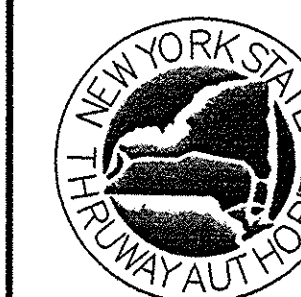
NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF MAINTENANCE AND ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

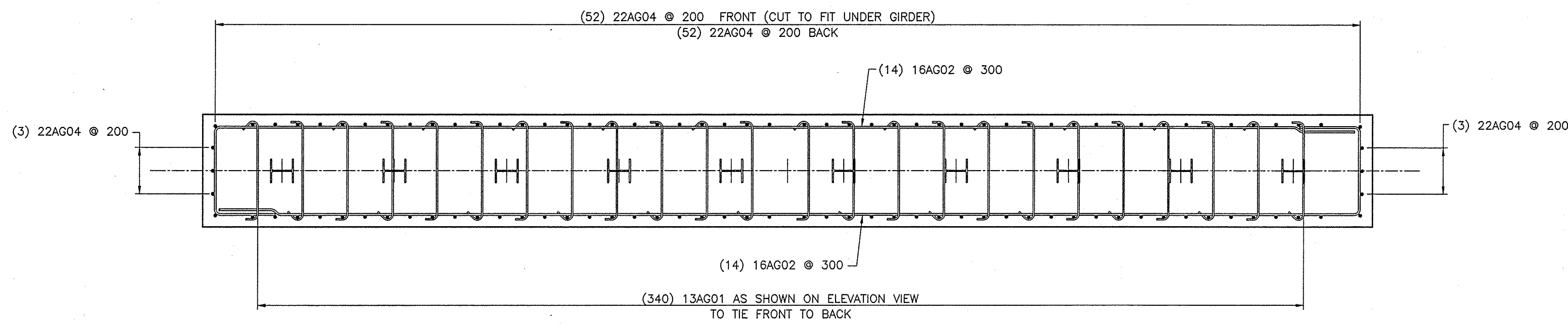
LOCATION OF PROJECT
SENECA COUNTY

TITLE OF DRAWING
ABUTMENT REINFORCING
ELEVATION AND SECTION

CONTRACT NUMBER: TAS 98-8B
DATE: 3/98
DRAWING NUMBER: C2

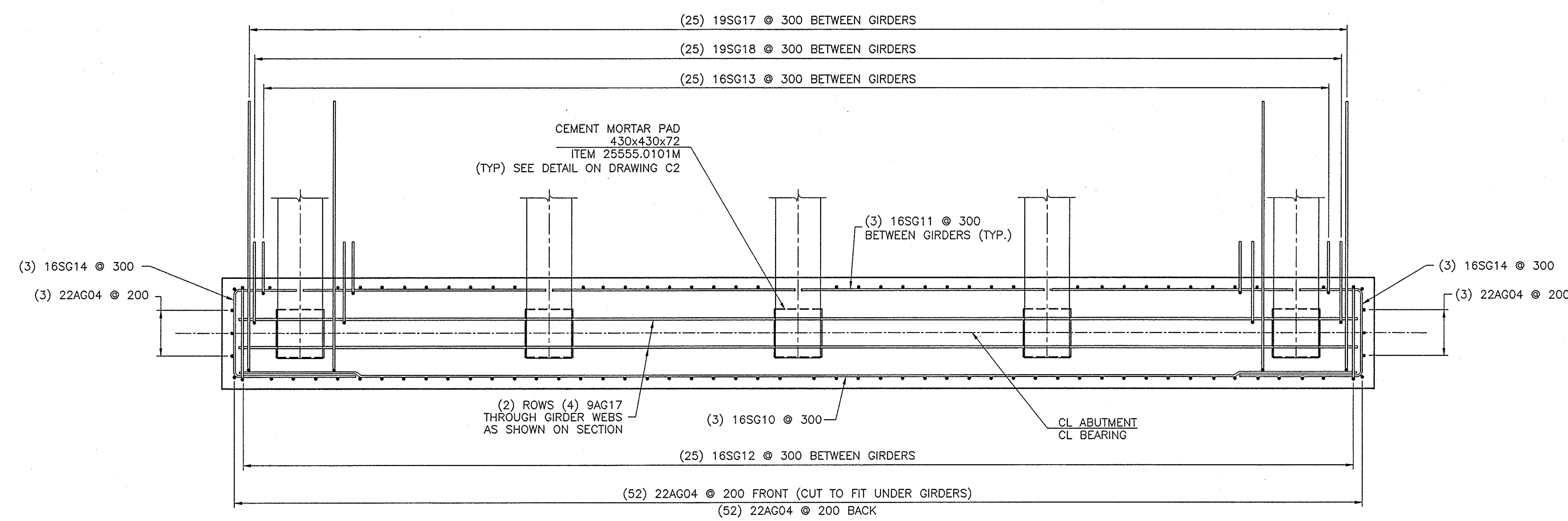


IN CHARGE OF: *Richard A. Chalkin*
DESIGNED BY: *XX*
DRAFTED BY: *XX*
CHECKED BY: *XX*
BRIDGES COMMON ABUTMENT

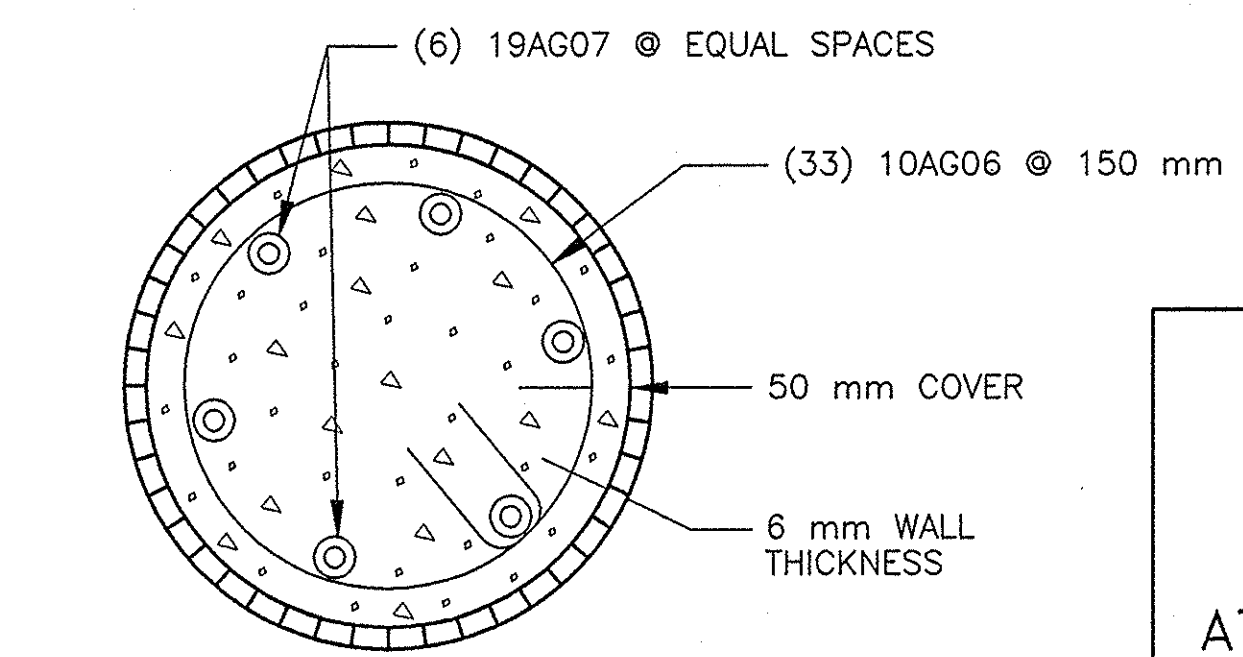


SECTION B-B
SCALE: 1 = 25

ACTUAL AVERAGE PILE TIP ELEVATIONS AT ABUTMENTS							
MP 319.19		MP 321.08		MP 324.16		MP 324.79	
SOUTH	NORTH	SOUTH	NORTH	SOUTH	NORTH	SOUTH	NORTH
137.10 140.50	139.00 140.50	146.00 141.30	147.07 148.43	129.50 134.91	129.50 130.06	137.00 144.01	137.00 143.52

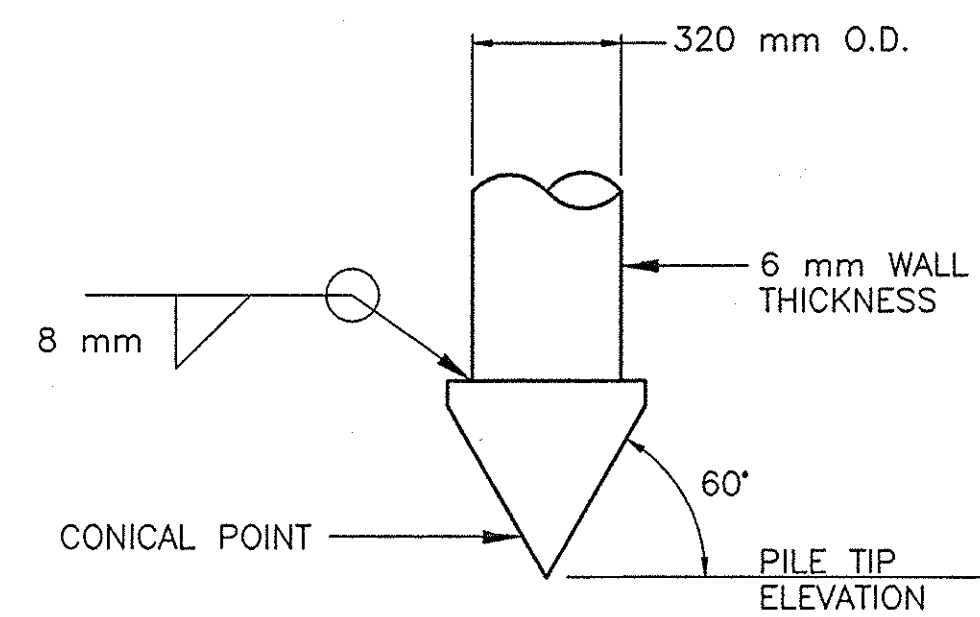


SECTION C-C
SCALE: 1 = 25

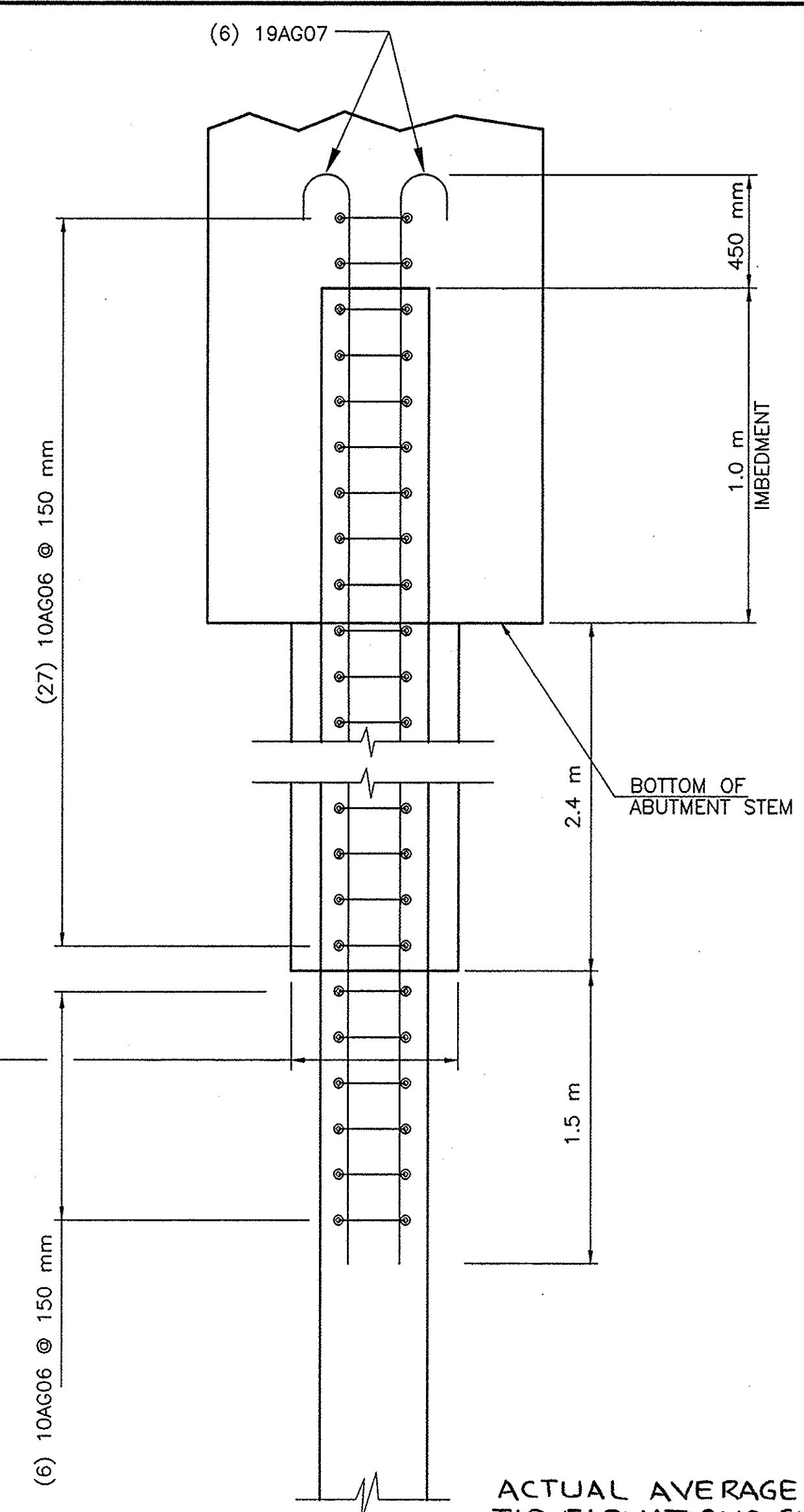


NEW CAST-IN-PLACE CONCRETE PILE SECTION
N.T.S.

NOTE:
CIP PILE DETAIL FOR
ABUTMENTS AT MP 324.79 ONLY.
STEEL H PILES SHALL BE USED
AT MP'S 319.19, 321.08 AND 342.16.



CIP PILE TIP DETAIL
N.T.S.

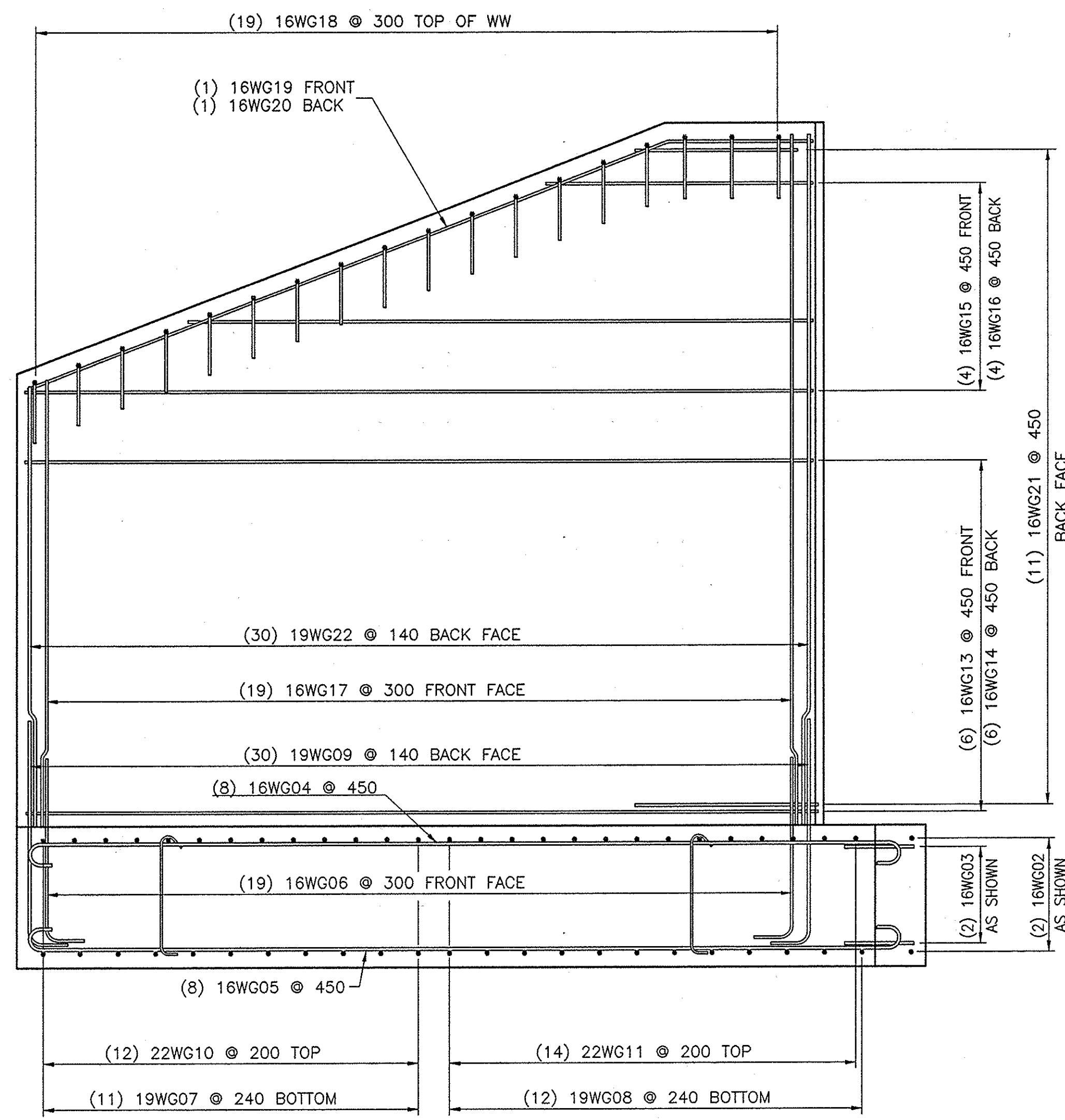


CAST-IN-PLACE PILE DETAIL
FOR ABUTMENTS AT MP 324.79
ITEM 551.11M N.T.S.

NOTE:
THE DETAILS ON THIS SHEET ARE COMMON TO THE
BRIDGES AT MILEPOSTS 319.19, 321.08, 324.16
AND 324.79. FOR THE BRIDGE AT MP 317.46, SEE
SHEETS 32-51.

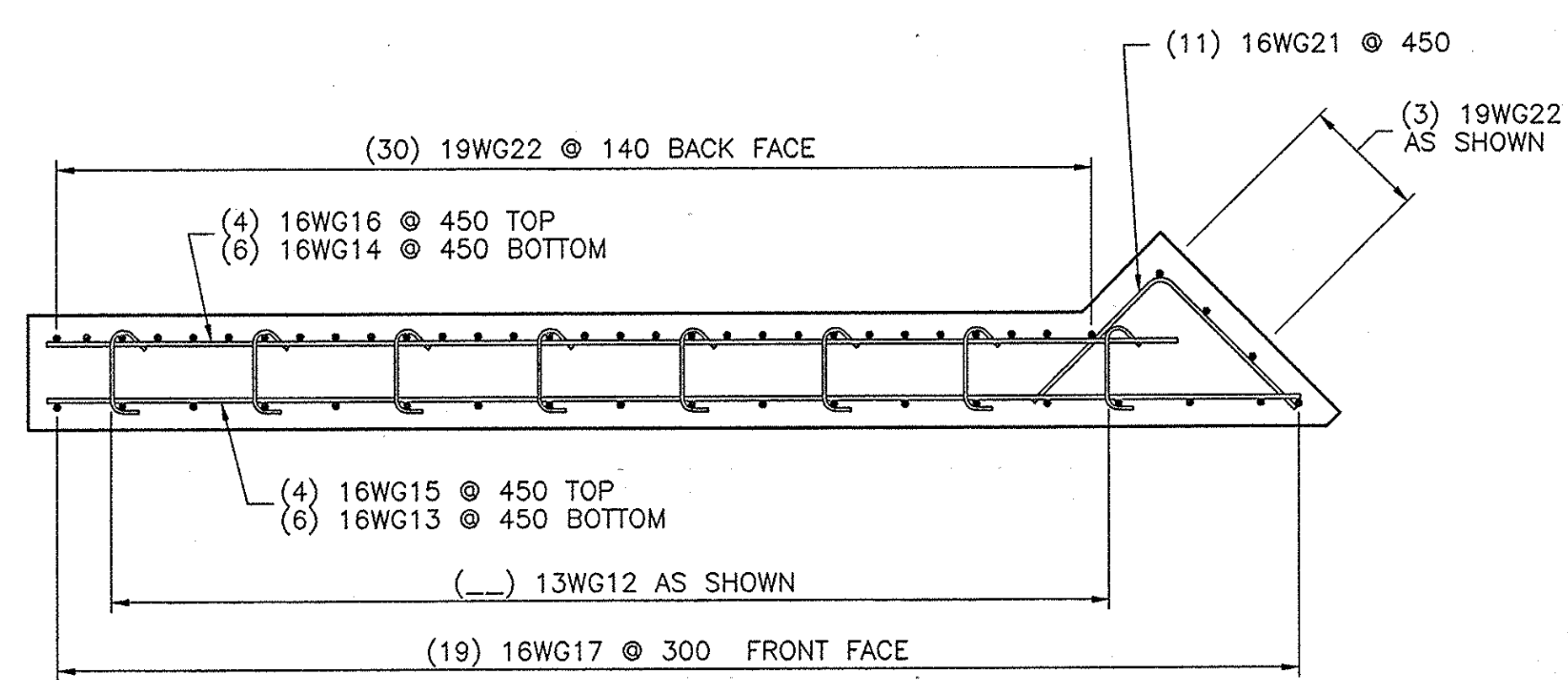
NOTE:
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS
OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN
METERS.

<i>1/2/00 Kenneth W. Kase</i>			
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT SENECA COUNTY			
TITLE OF DRAWING ABUTMENT STEM REINFORCING AND CIP PILE DETAILS			
CONTRACT NUMBER: TAS 98-8B		DATE: 3/98	
DRAWING NUMBER: C3			



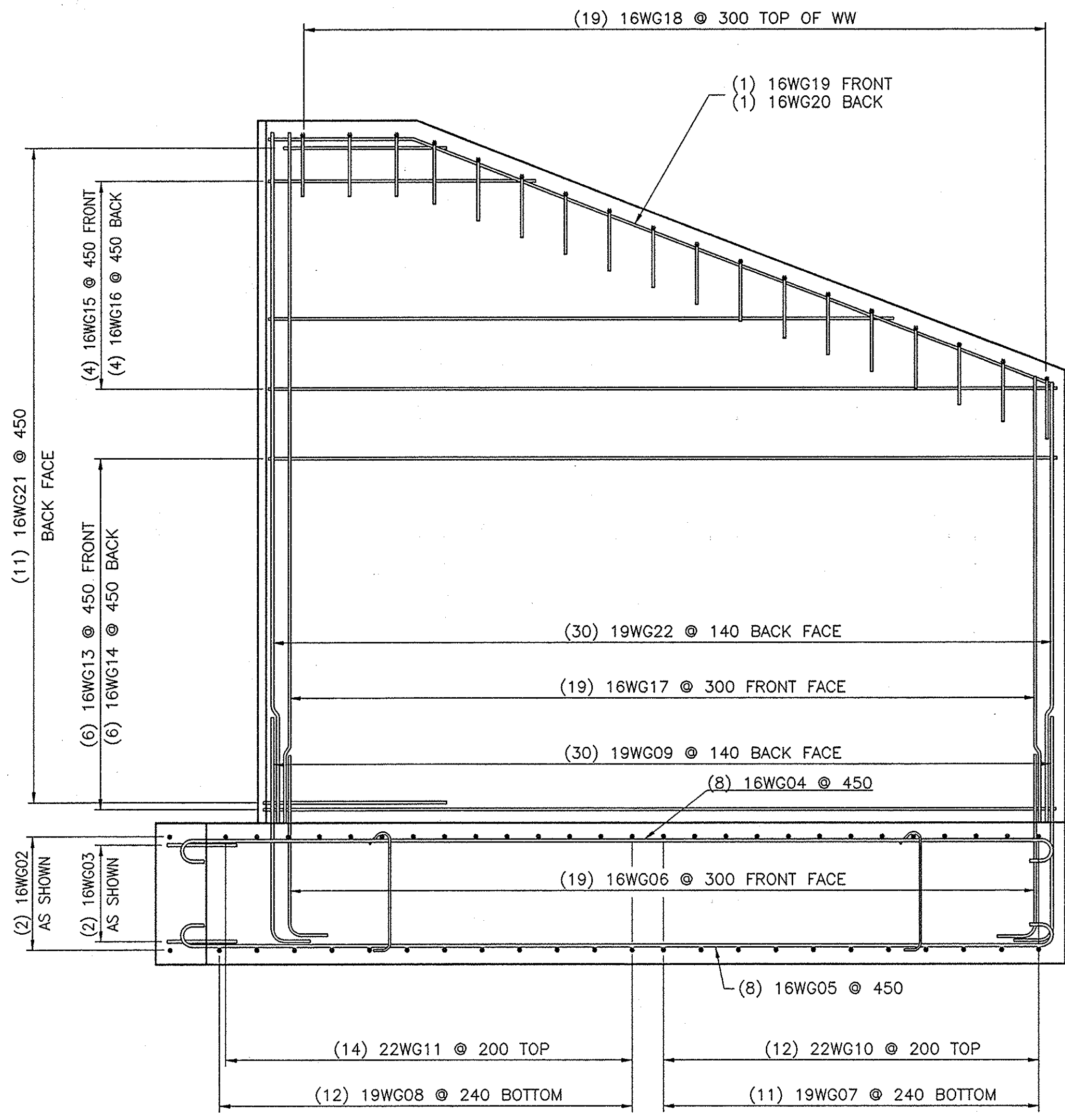
ELEVATION

SCALE: 1 = 25



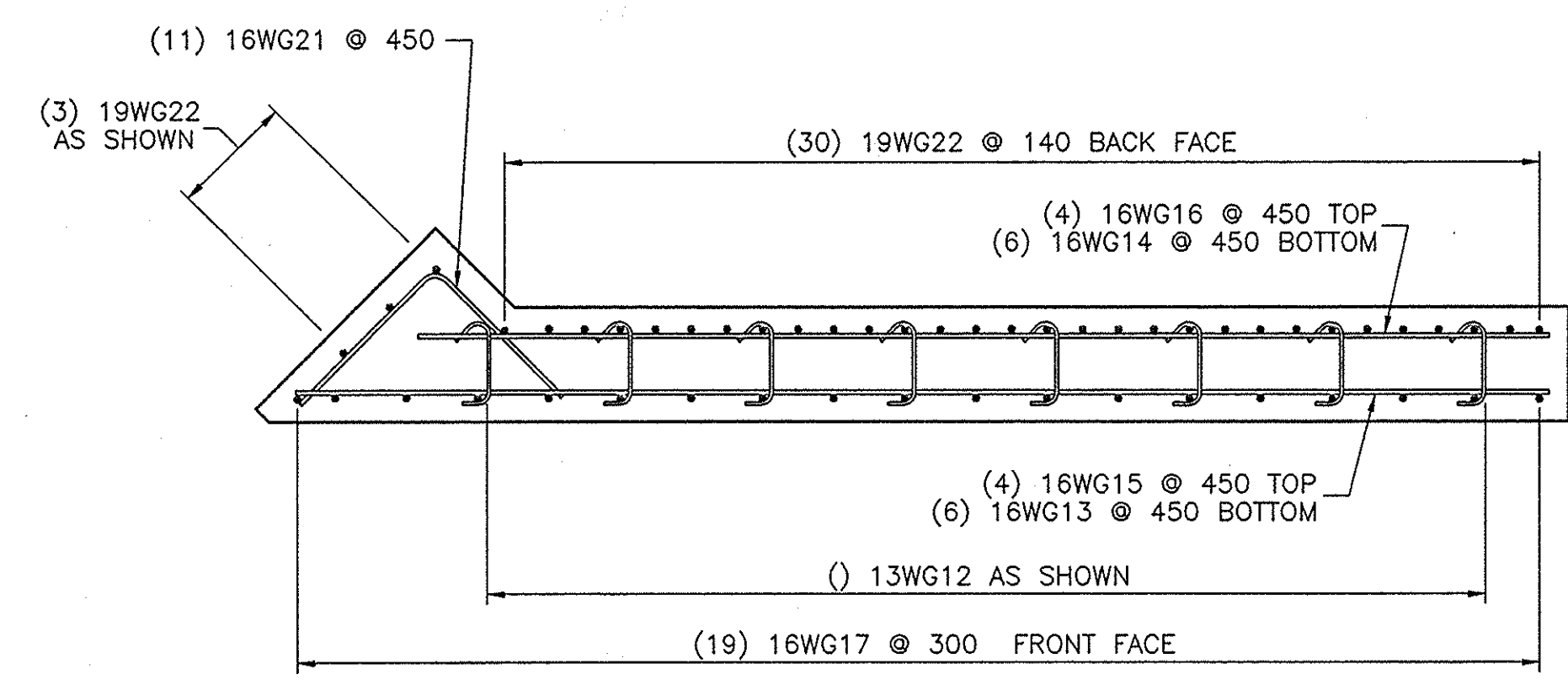
PLAN

SCALE: 1 = 25



ELEVATION

SCALE: 1 = 25



PLAN

SCALE: 1 = 25

NOTE:
THE DETAILS ON THIS SHEET ARE COMMON TO THE
BRIDGES AT MILEPOSTS 319.19, 321.08, 324.16
AND 324.79. FOR THE BRIDGE AT MP 317.46, SEE
SHEETS 32-51.

NOTE:
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS
OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN
METERS.

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA COUNTY

TITLE OF DRAWING
WINGWALL ELEVATIONS
AND SECTION

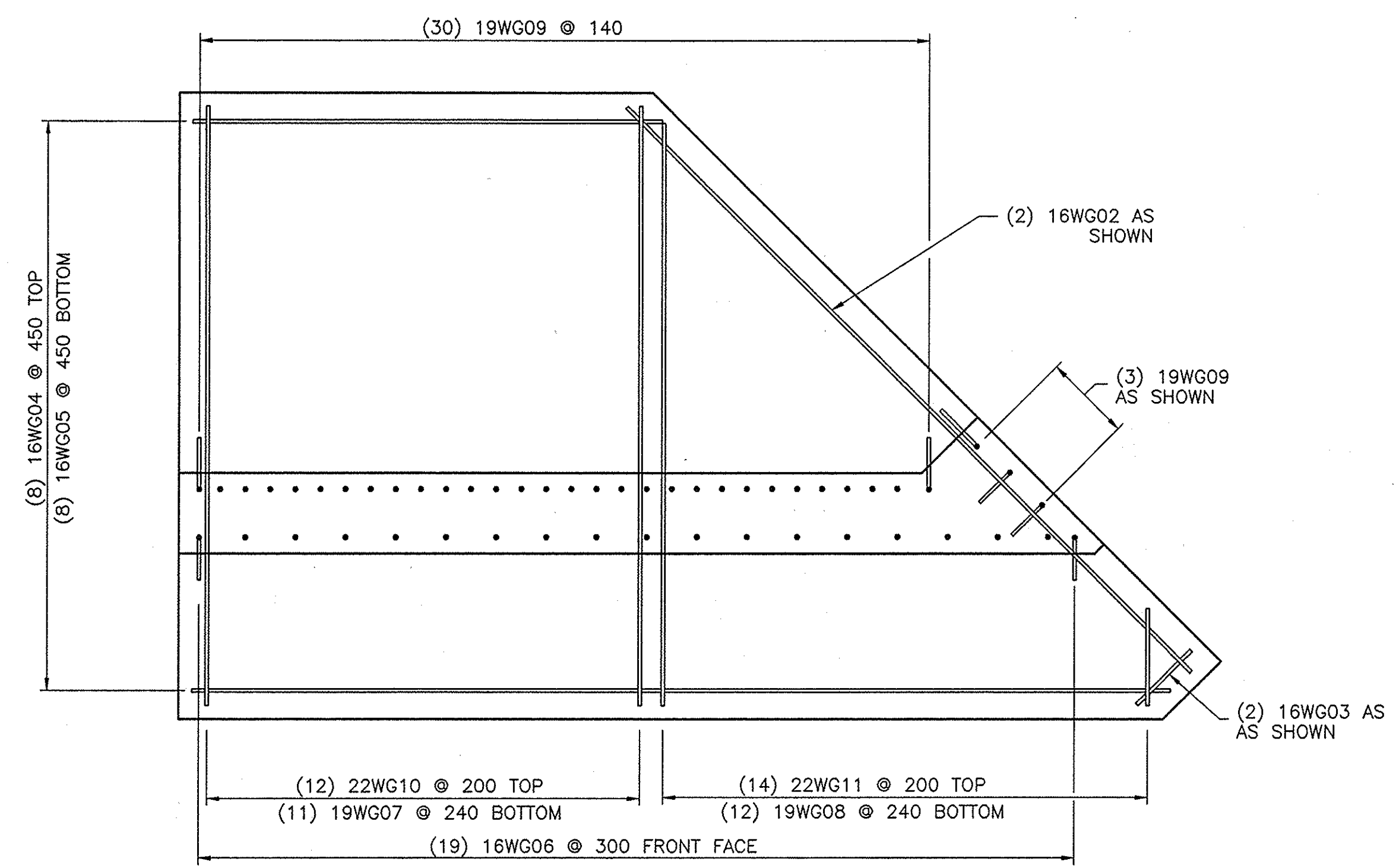
CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
C4

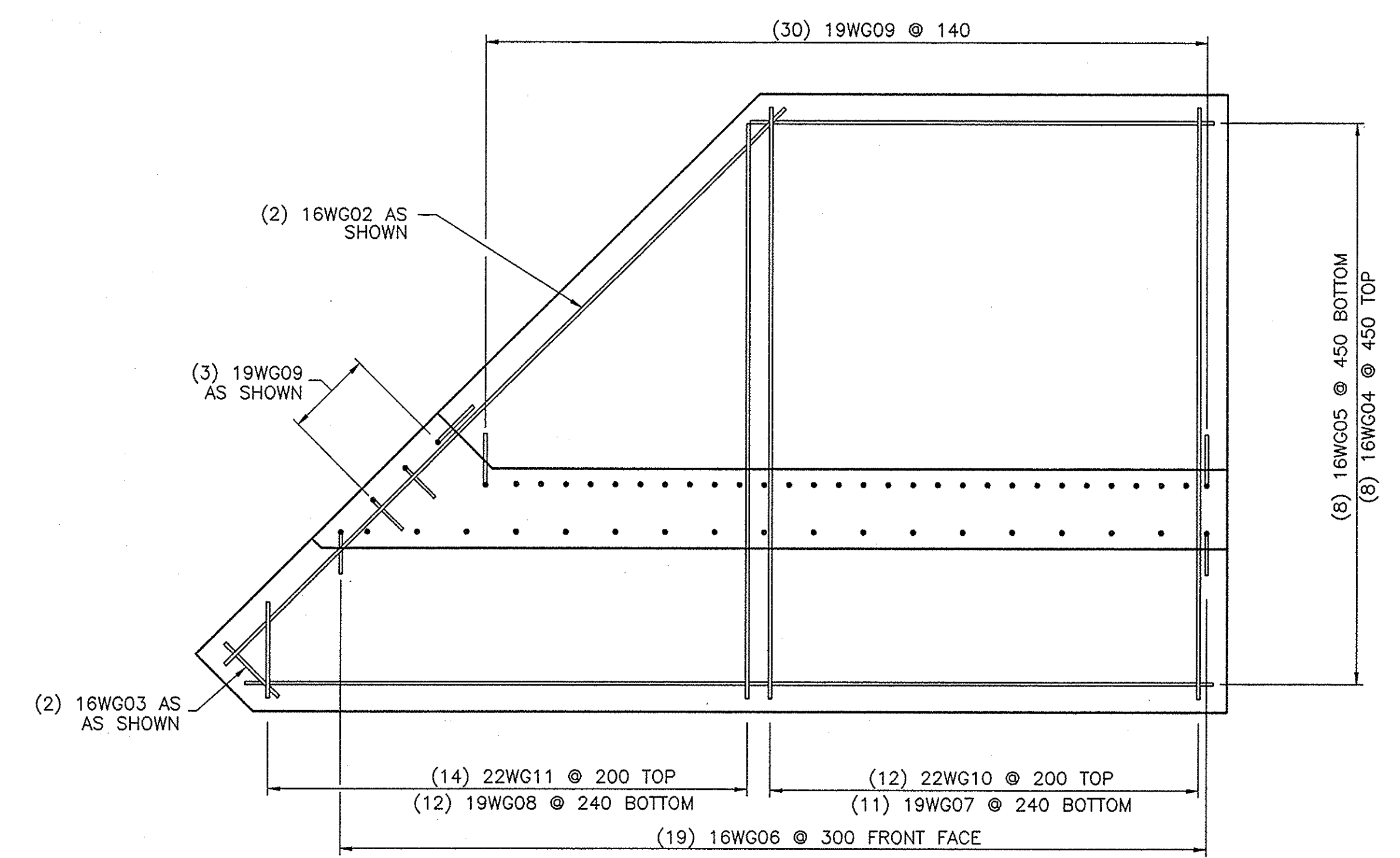


IN CHARGE OF: *XX* *Richard A. Adams* DESIGNED BY: *XX* DRAFTED BY: *XX* CHECKED BY: *XX* BRIDGES COMMON FEATURES



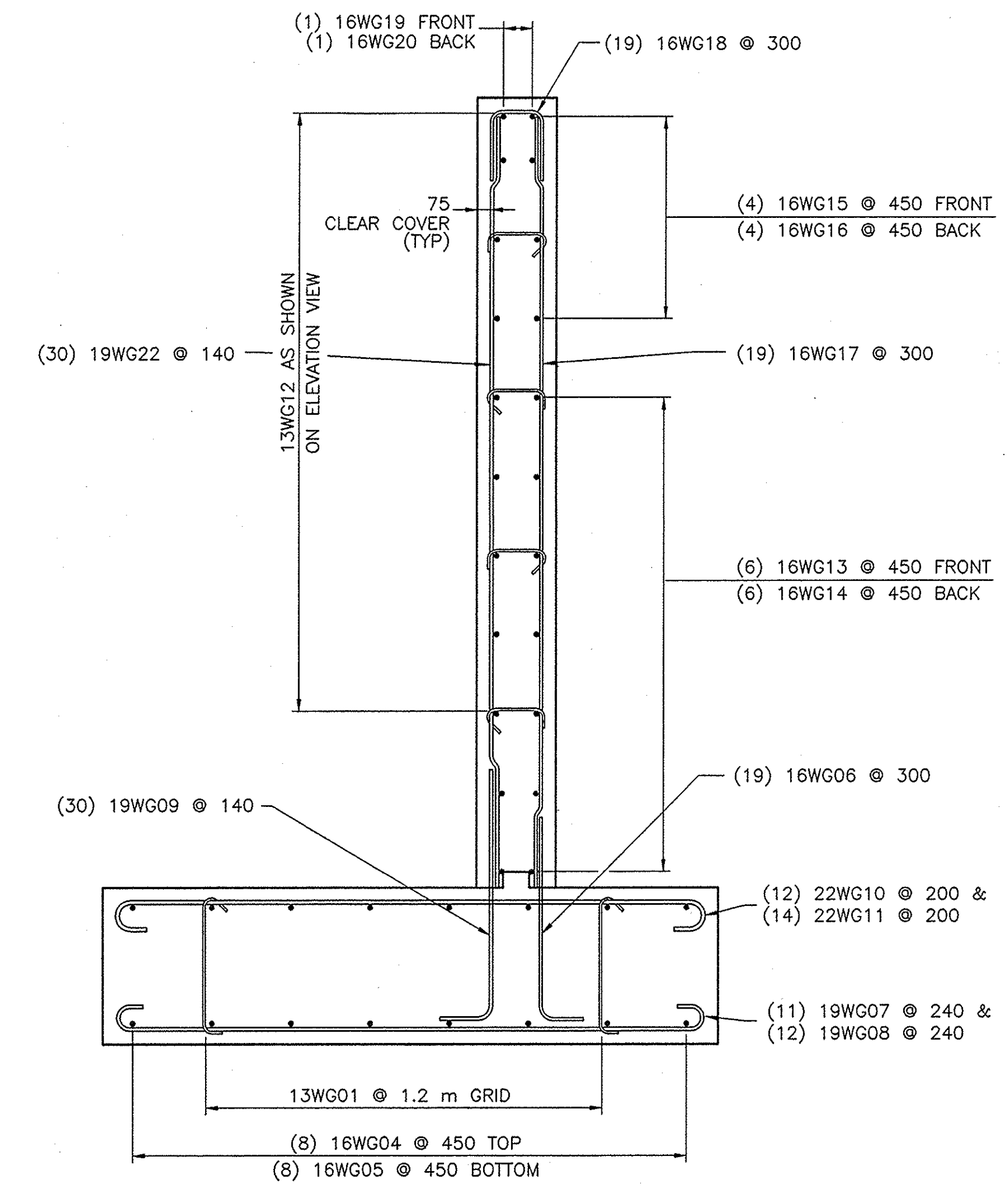
PLAN VIEW

SCALE: 1:25



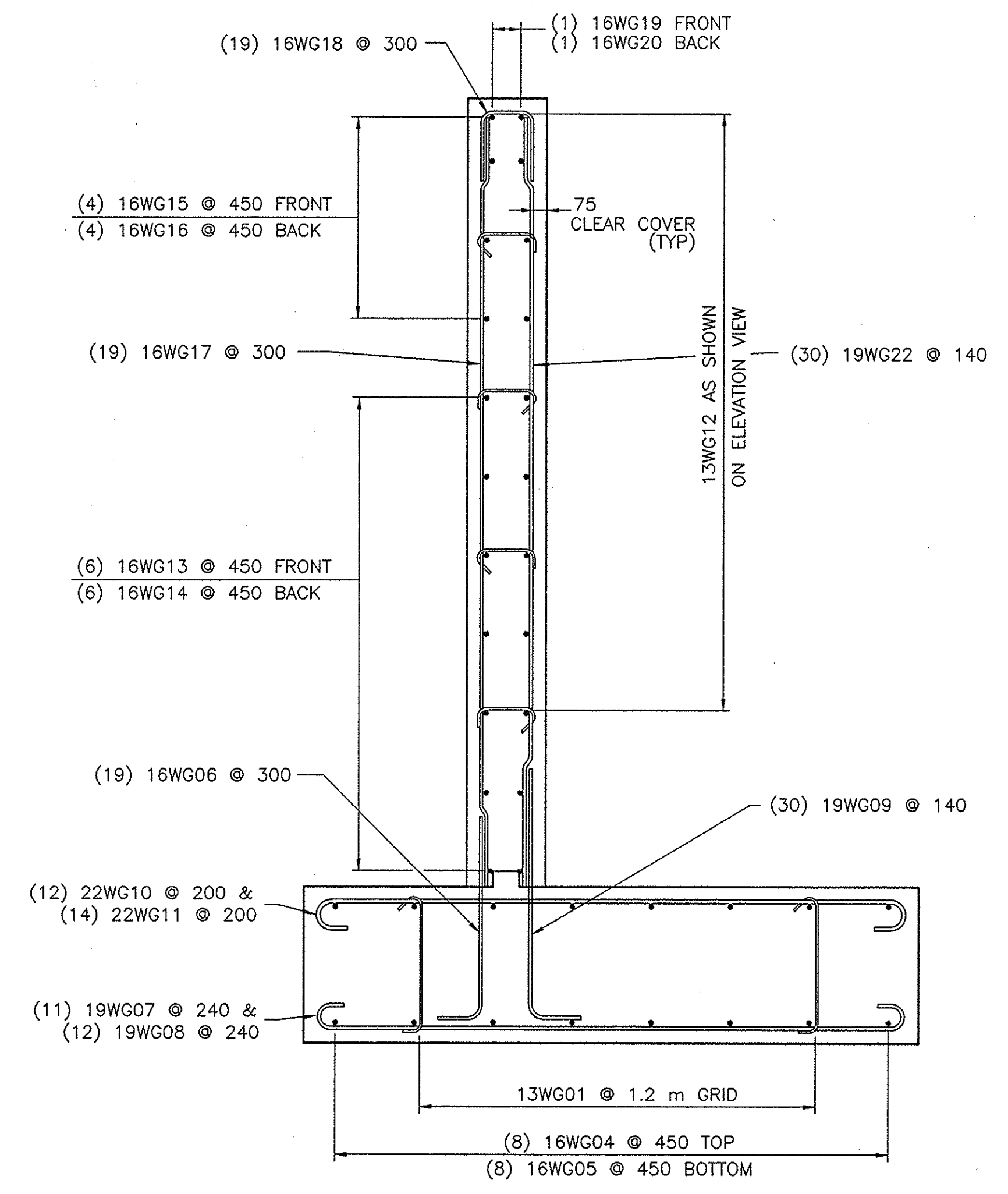
PLAN VIEW

SCALE: 1:25



SECTION VIEW

SCALE: 1:25



SECTION VIEW

SCALE: 1:25

NOTE:
THE DETAILS ON THIS SHEET ARE COMMON TO THE
BRIDGES AT MILEPOSTS 319.19, 321.08, 324.16
AND 324.79. FOR THE BRIDGE AT MP 317.46, SEE
SHEETS 32-51.

NOTE:
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS
OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN
METERS.

NOAS-BUILT REVISIONS

1/24/60			
DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA COUNTY

TITLE OF DRAWING
**WINGWALL SECTIONS AND
FOOTING REINFORCEMENT**



CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98


DRAWING NUMBER:
C5

FL-5 BRIDGE COMMON AREA
CHECKED BY: XX
DRAFTED BY: XX
DESIGNED BY: XX
IN CHARGE OF: *Mike Adkins*



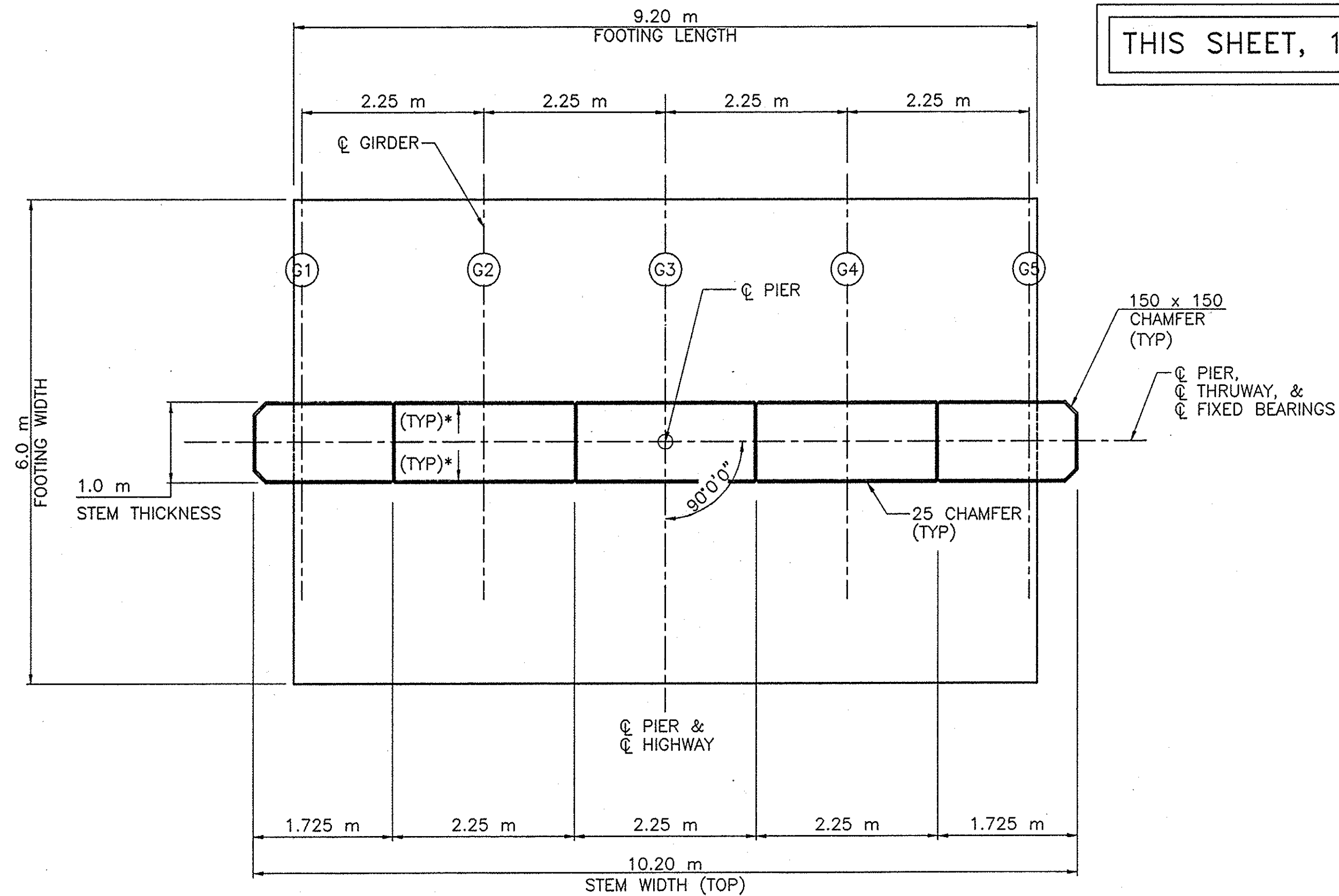
* ELEVATION CHANGES DUE TO ACTUAL HEIGHT
OF BEARINGS USED: ACTUAL HEIGHT 135MM
ESTIMATED HEIGHT 102MM



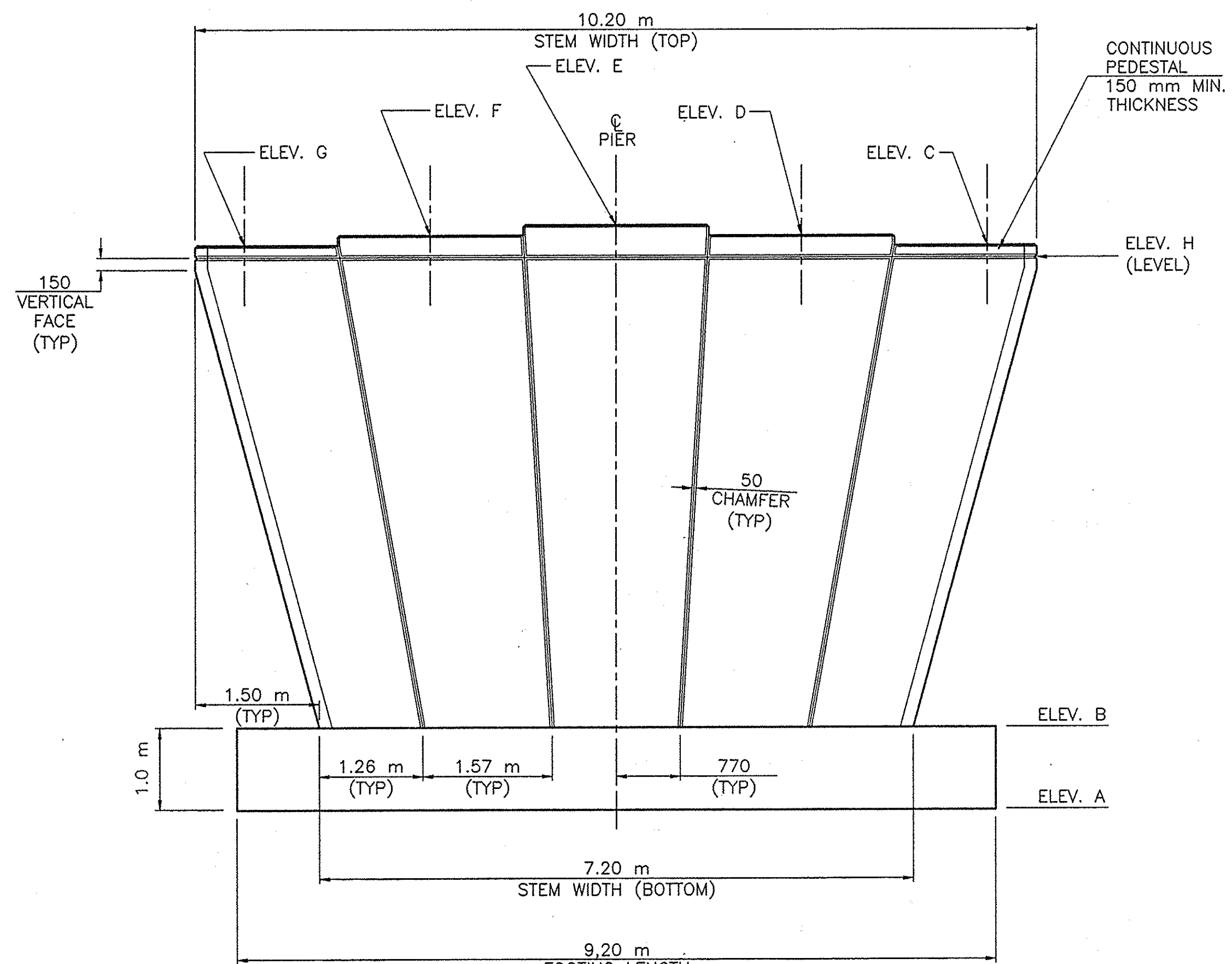
ELEVATION REVISIONS			
1/24/98 <i>See W 1000</i>			
4/11/98	ELEVATION CORRECTIONS	P.E. PROVOST P.E.	
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT			
5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT			
SENECA COUNTY			
TITLE OF DRAWING			
PROPOSED PIER PLAN AND ELEVATION - 1			
		CONTRACT NUMBER:	
		TAS 98-8B	
		DATE:	
		4/98	
		DRAWING NUMBER:	
		C6	

THIS SHEET, 11F1, SUPERSEDES SHEET 11 OF 113.

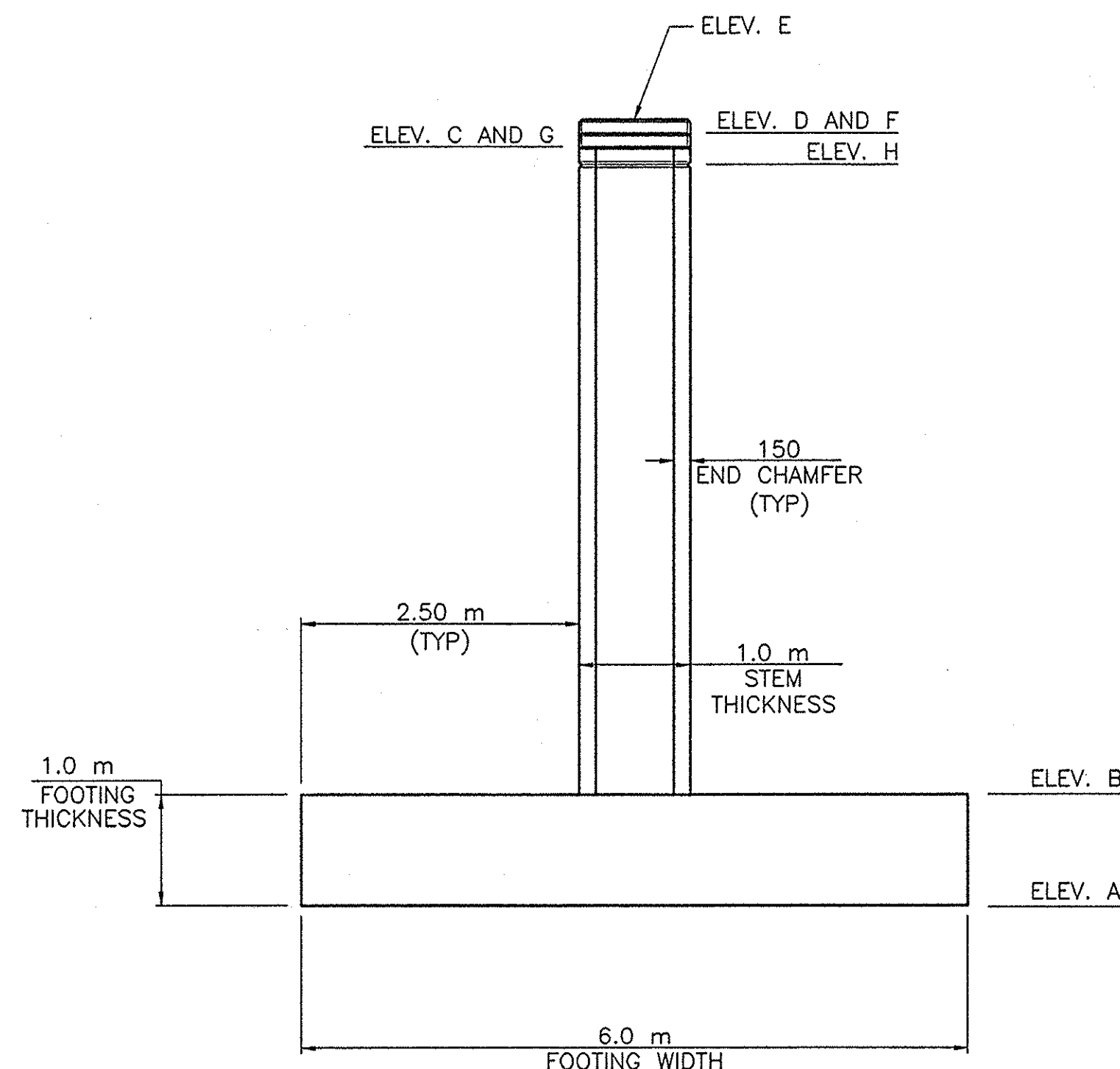
CHECKED BY: *[Signature]*
DESIGNED BY: *[Signature]*
IN CHARGE OF: *[Signature]*



PLAN
SCALE: 1 : 50



ELEVATION
SCALE: 1 : 50



END VIEW
SCALE: 1 : 50

MEDIAN PIER DATA											
LOCATION			PLAN VIEW			ELEVATION VIEW					
MILEPOST	STRUCTURE	REFERENCE NORTH	☉ PIER & STRUCTURE AZIMUTH	☉ PIER, THRUWAY, & FIXED BRGS. AZIMUTH	☉ PIER STATION	ELEV. A	ELEV. B	* ELEV. C	* ELEV. D	* ELEV. E	* ELEV. F
M.P. 321.08	BIRDSEY ROAD BRIDGE		03°-50'-54"	93°-50'-54"	0 + 431.597	152.43	153.43	159.138 +159.171	159.183 +159.216	159.228 +159.261	159.183 +159.216

* ELEVATION CHANGES DUE TO ACTUAL HEIGHT OF BEARINGS USED: ACTUAL HEIGHT 135MM ESTIMATED HEIGHT 102MM

ELEVATION REVISIONS

DATE	DESCRIPTION	BY	SYM.


REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA COUNTY

TITLE OF DRAWING
PROPOSED PIER
PLAN AND ELEVATION - 2



CONTRACT NUMBER:
TAS 98-8B

DATE:
4/98

DRAWING NUMBER:
C7

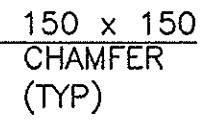
NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

E:\5BRIDGES\COMMON\SPIER1

DRAFTED BY:

DESIGNED BY:

IN CHARGE OF: Richard A. Draklein



✓ Q PIER,
Q THRUWAY, &
Q FIXED BEARINGS

Q THROAT, &
Q FIXED BEARINGS

SCALE: 1 : 50

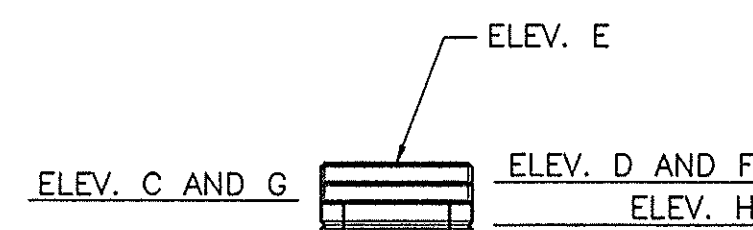
ELEV. H
(LEVEL)

SCALE: 1 : 50

* ELEVATION CHANGES DUE TO ACTUAL HEIGHT OF BEARINGS USED:
ACTUAL HEIGHT 135MM
ESTIMATED HEIGHT 102MM

THE STEEL - "H" PILES SHOWN AT THE PIERS ARE DESIGNED TO SUPPORT A MAXIMUM ALLOWABLE LOAD OF 427 KILONEWTONS PER PILE.

- IF ANY OBSTRUCTIONS TO PILE DRIVING ARE ENCOUNTERED 3.0 METERS OR LESS FROM THE BOTTOM OF THE FOOTING, THE CONTRACTOR SHALL, IF SO ORDERED BY THE ENGINEER, PULL THE PARTIALLY DRIVEN PILE OR PILES AND REMOVE THE OBSTRUCTION, BACKFILLING THE HOLE WITH APPROVED SUITABLE MATERIAL WHICH SHALL BE THOROUGHLY COMPACTED TO THE SATISFACTION OF THE ENGINEER. HOWEVER, NO PARTIALLY DRIVEN PILE SHALL BE REMOVED UNTIL THE ENGINEER IS SATISFIED THAT THE CONTRACTOR HAS MADE EVERY EFFORT TO DRIVE THE PILE THROUGH THE OBSTRUCTION. PAYMENT FOR THE EXCAVATION WILL BE MADE AT THE UNIT PRICE BID FOR THE STRUCTURE EXCAVATION ITEM. NO OTHER EXTRA PAYMENT WILL BE MADE FOR THIS WORK.



760
(TYP)


0 m

500

(TYP)

SCALE: 1 : 50

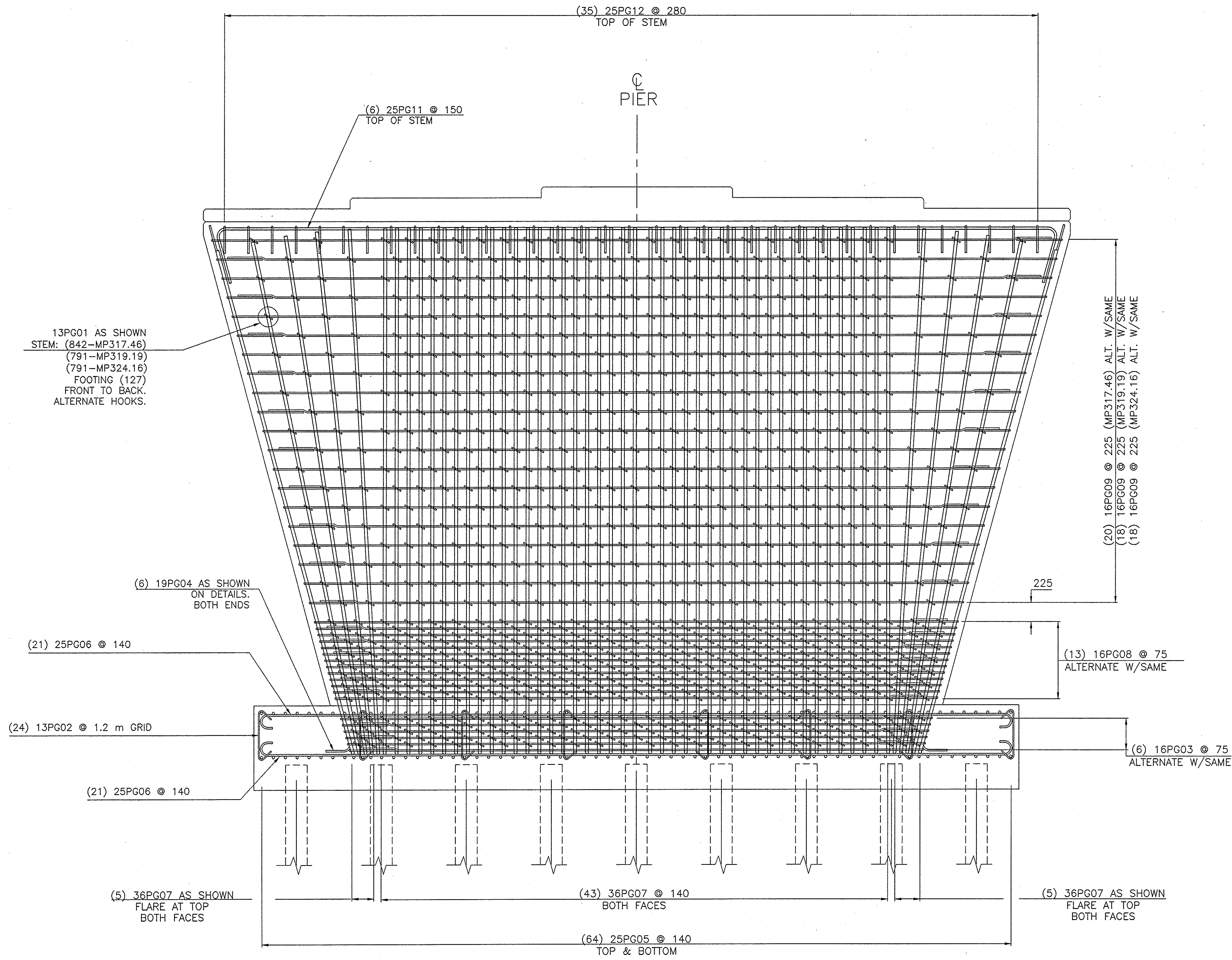
NOTE: ALL DIMENSIONS ARE SHOWN
IN MILLIMETERS UNLESS OTHERWISE NOTED.
ALL ELEVATIONS ARE SHOWN IN METERS.

ELEVATION REVISIONS			
1/24/88	Kenny W. ...		
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT			
5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT			
SENECA COUNTY			
TITLE OF DRAWING			
PROPOSED PIER PLAN AND ELEVATION - 3			
		CONTRACT NUMBER:	
		TAS 98-8B	
		DATE:	
		4/98	
		DRAWING NUMBER:	
		C8	

CHECKED BY: *[Signature]*
DRAFTED BY: *[Signature]*
DESIGNED BY: *[Signature]*
IN CHARGE OF: *[Signature]*

NOTE: PEDESTAL REINFORCEMENT
NOT SHOWN. SEE DRWG. C13.

13
113



ELEVATION
(M.P. 317.46; M.P. 319.19; & M.P. 324.16)
SCALE: 1 : 25

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE
SHOWN IN METERS.

NOAS-BUILT REVISIONS

1/2/98			
DATE	DESCRIPTION	BY	SYM.


REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA COMMON

TITLE OF DRAWING
PROPOSED PIER
REINFORCEMENT - 1



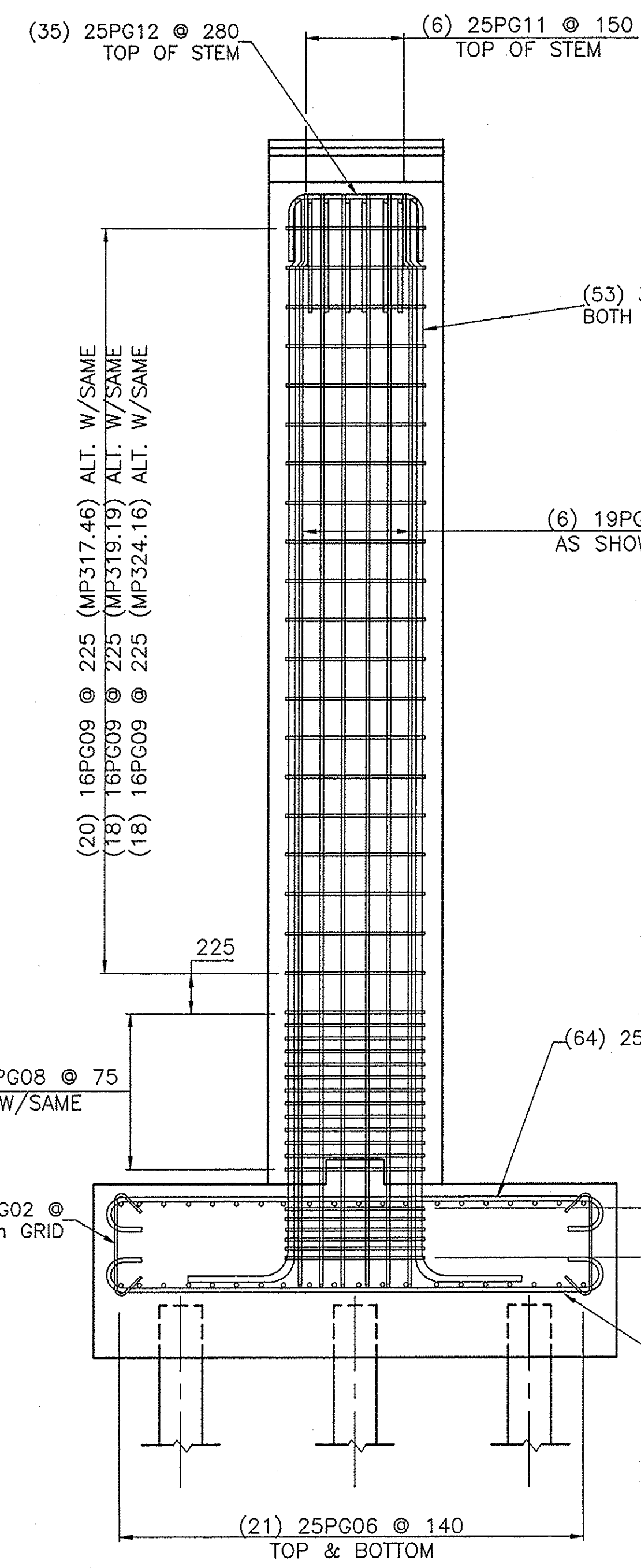
CONTRACT NUMBER:
TAS 98-8B
DATE:
3/98
DRAWING NUMBER:
C9

MP 324.79
SCALE: 1 : 25

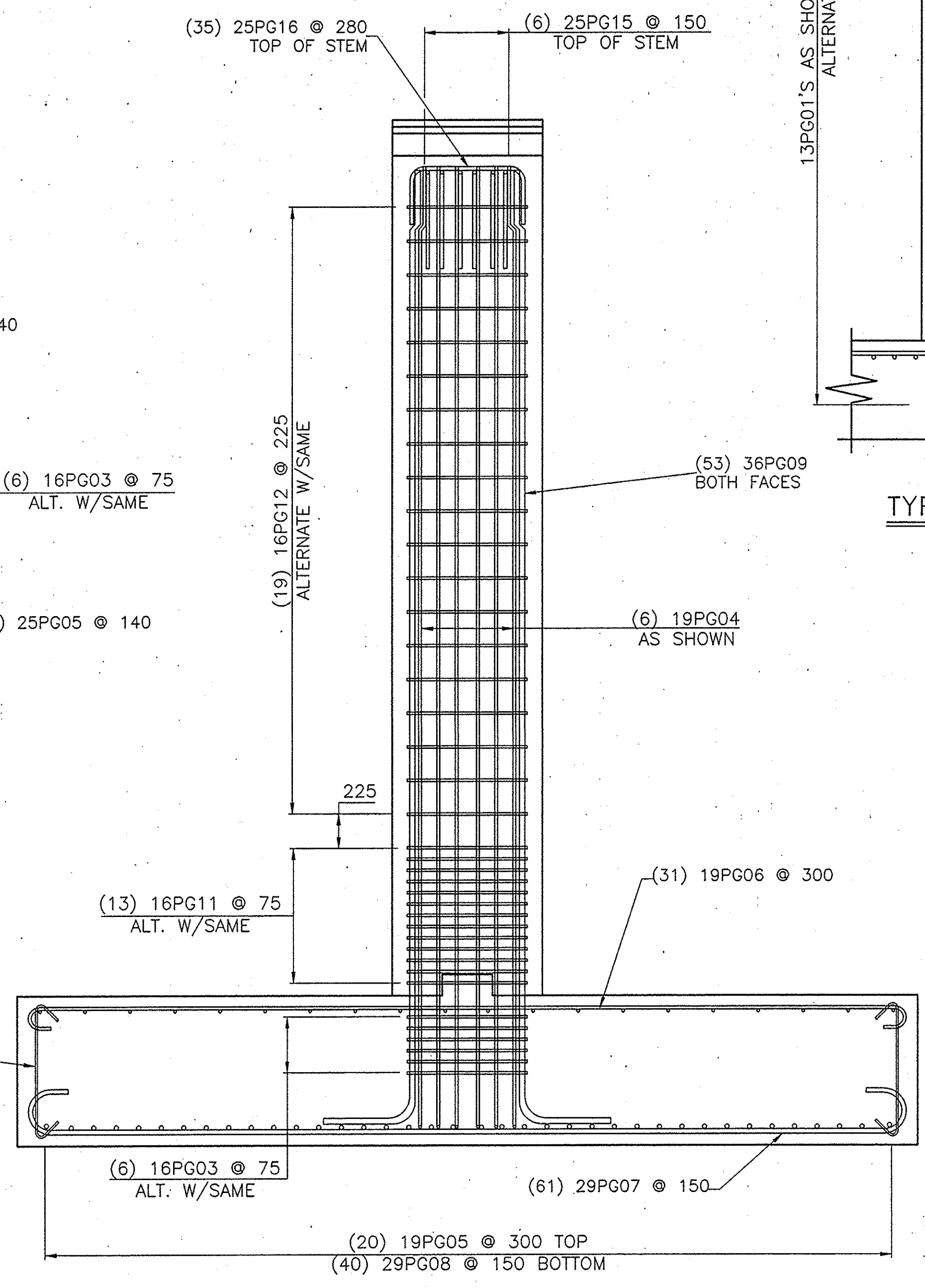
MP 321.08
SCALE: 1 : 25

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE
SHOWN IN METERS.

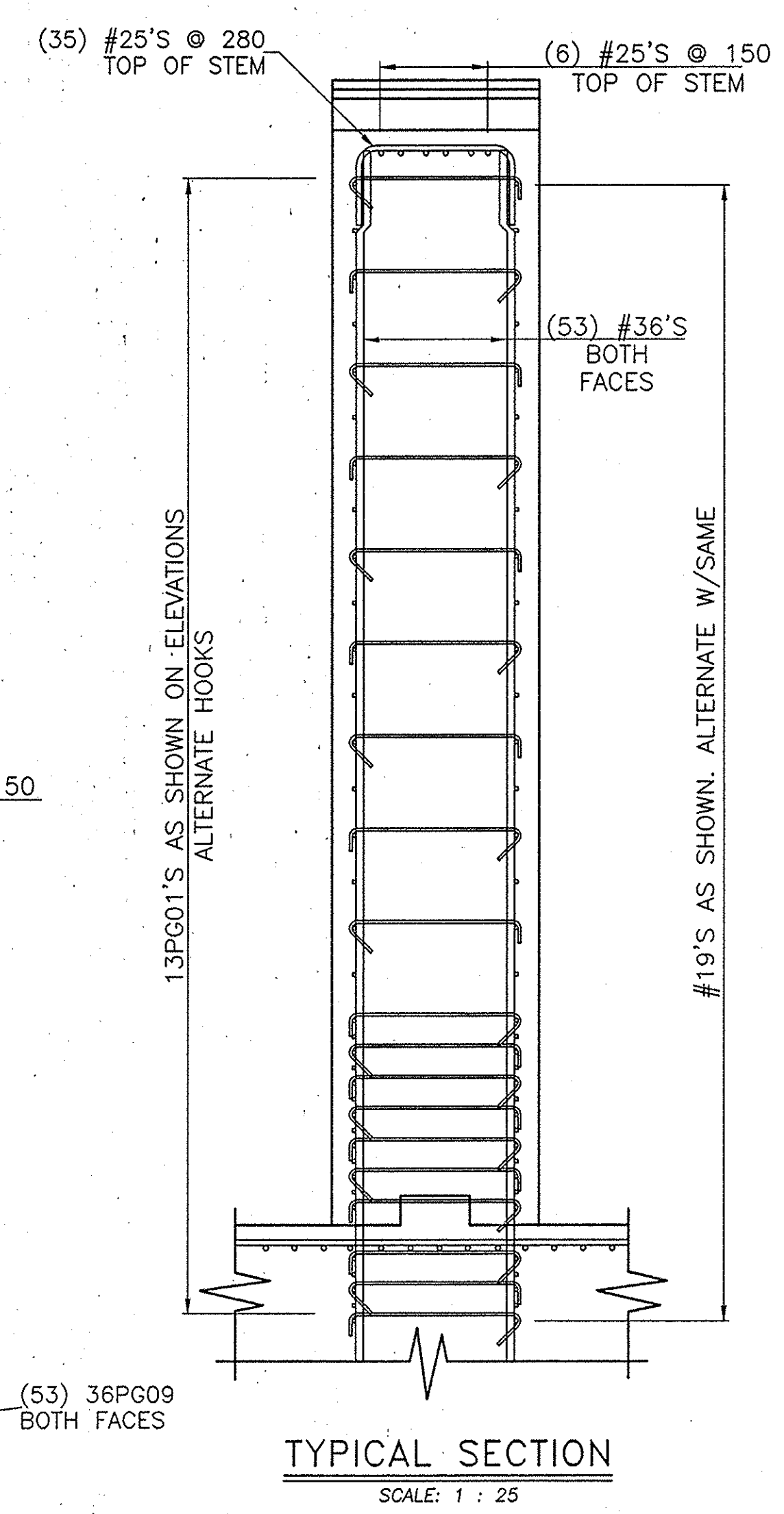
ELABORATES COMMON SPIRA
CHECKED BY: *[Signature]*
DRAFTED BY: *[Signature]*
DESIGNED BY: *[Signature]*
IN CHARGE OF: *[Signature]*



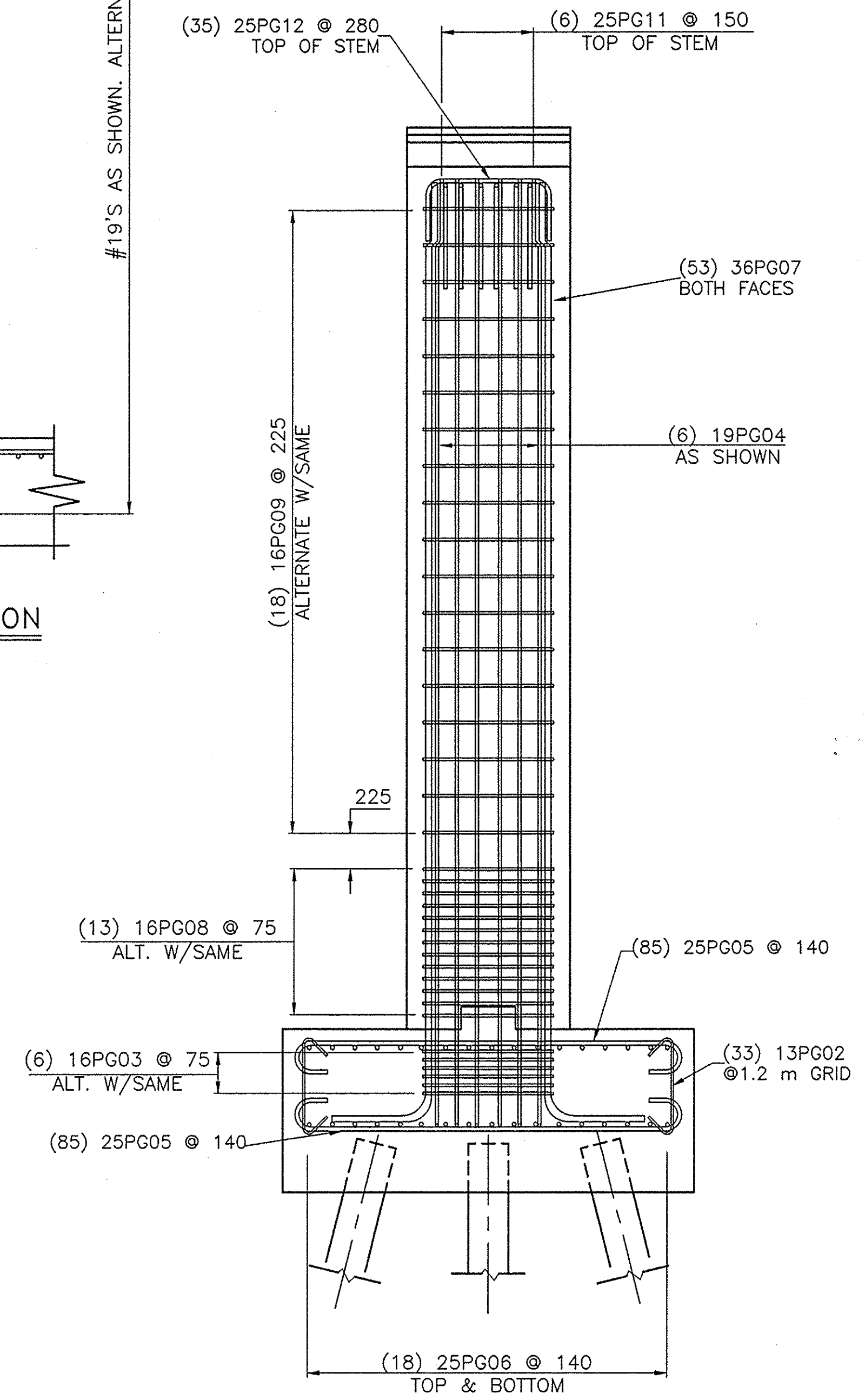
PIER END REINFORCEMENT
(M.P. 317.46; M.P. 319.19; & M.P. 324.16)
SCALE: 1 : 25



PIER END REINFORCEMENT
(M.P. 321.08)
SCALE: 1 : 25

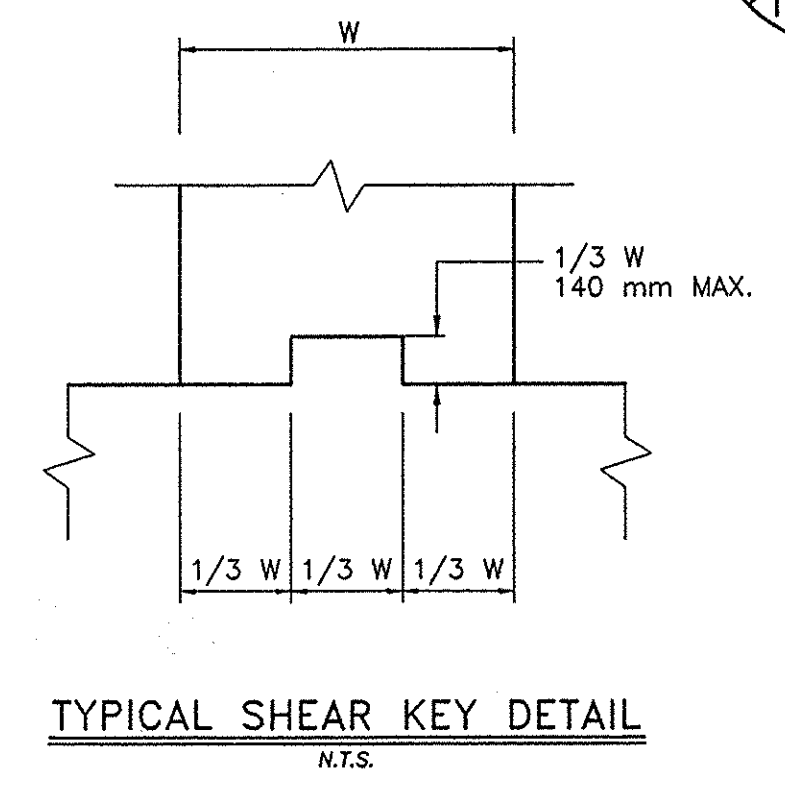


TYPICAL SECTION
SCALE: 1 : 25



PIER END REINFORCEMENT
(M.P. 324.79)
SCALE: 1 : 25

NOTE: PEDESTAL REINFORCEMENT NOT SHOWN. SEE DRAWING C10.



NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.
12/1/00		duf	


REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA COUNTY

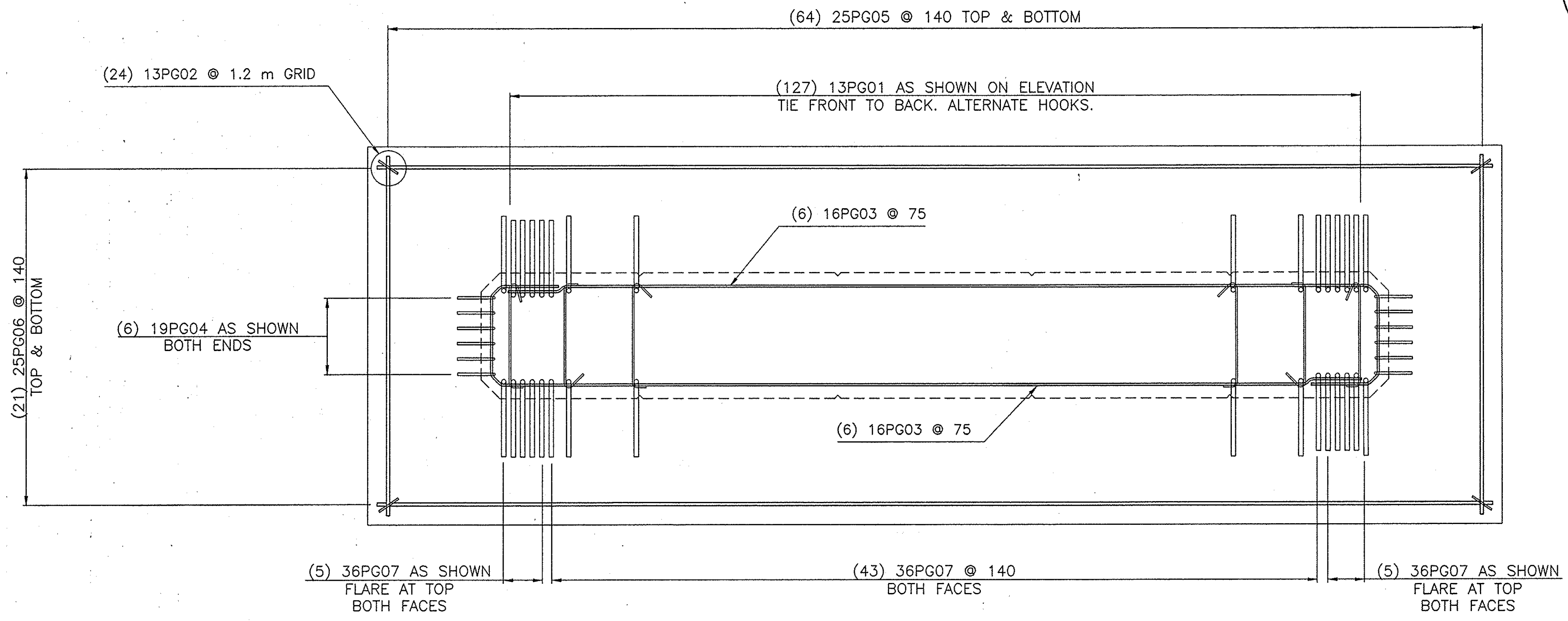
TITLE OF DRAWING
PROPOSED PIER
REINFORCING DETAILS



CONTRACT NUMBER:
TAS 98-8B
DATE:
3/98
DRAWING NUMBER:
C11

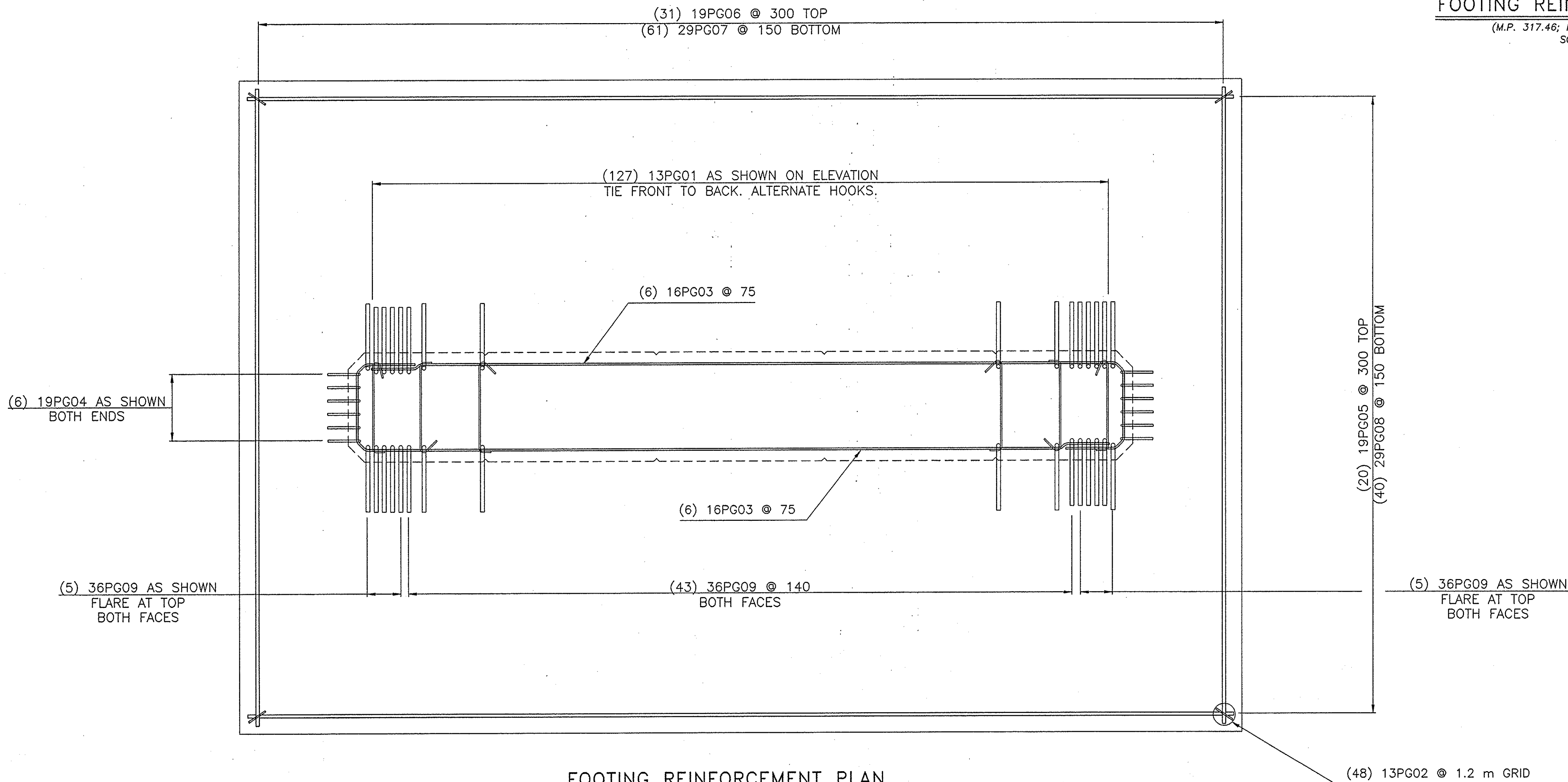
NOTE: ALL DIMENSIONS ARE SHOWN
IN MILLIMETERS UNLESS OTHERWISE NOTED.

IN CHARGE OF: *Rino C. White*
DESIGNED BY: *[Signature]*
DRAFTED BY: *[Signature]*
CHECKED BY: *[Signature]*
FL BRIDGES COMMON SPIERS



FOOTING REINFORCEMENT PLAN

(M.P. 317.46; M.P. 319.19; M.P. 324.16)
SCALE: 1 : 25



FOOTING REINFORCEMENT PLAN

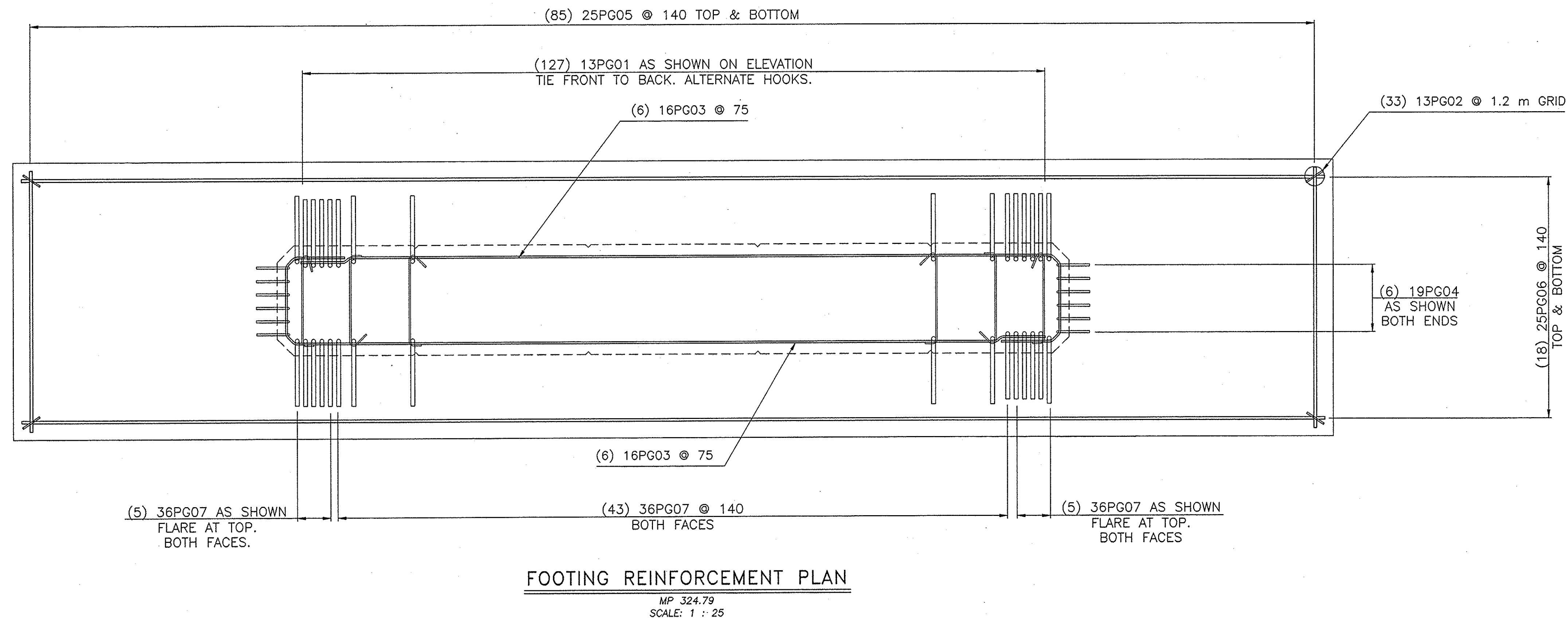
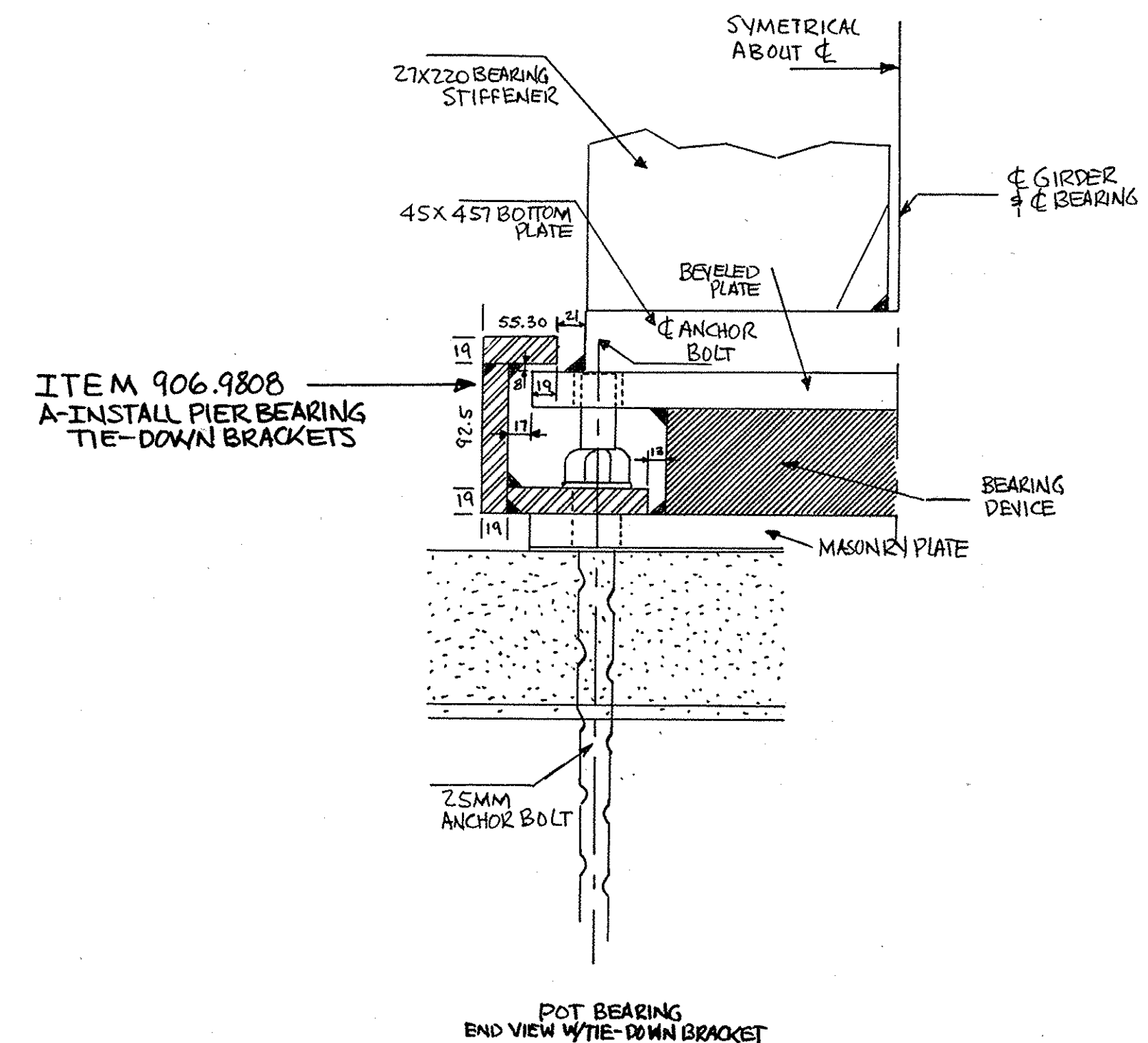
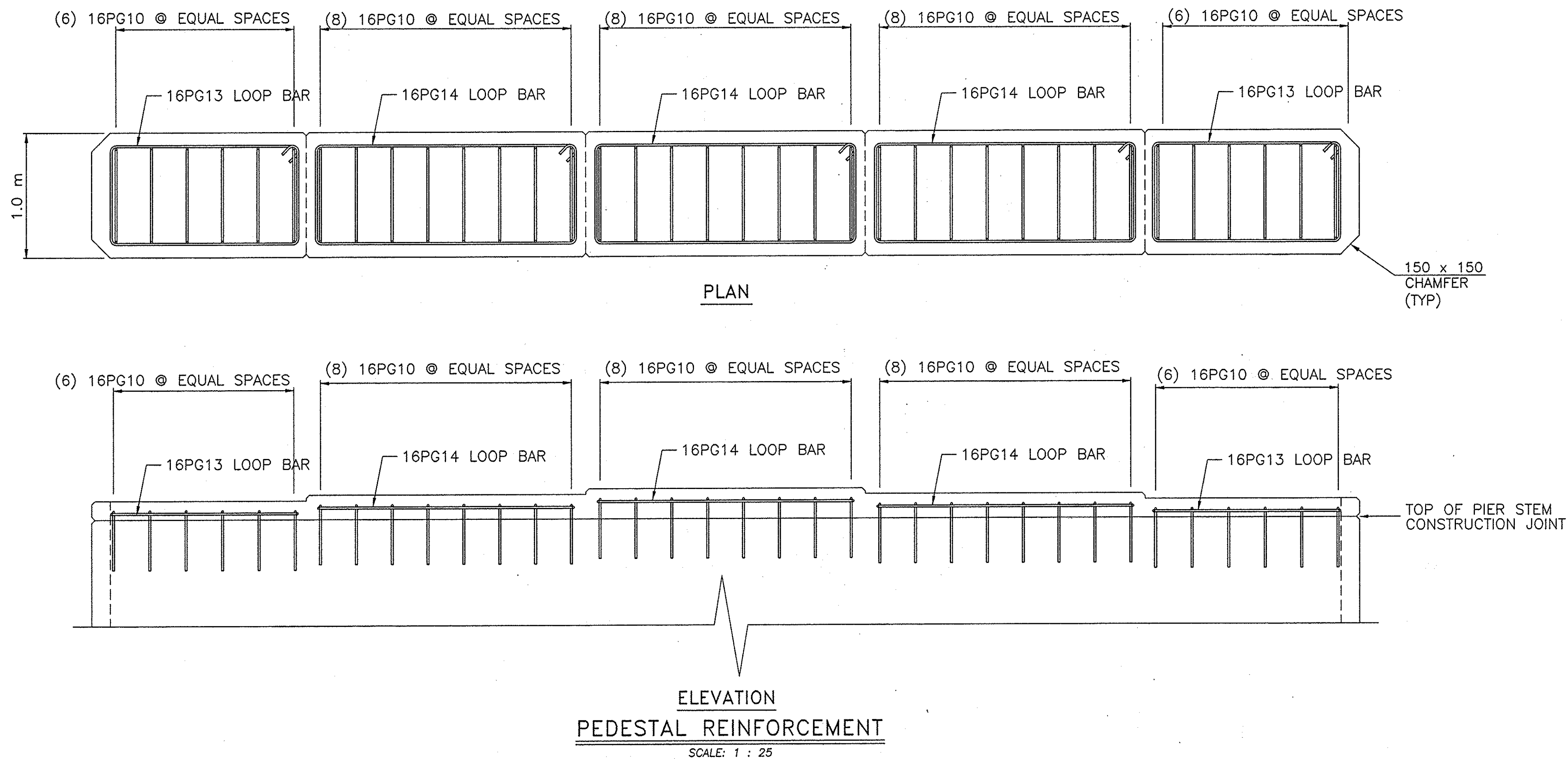
MP 321.08
SCALE: 1 : 25

NOTE: ALL DIMENSIONS ARE SHOWN
IN MILLIMETERS UNLESS OTHERWISE NOTED.

NOAS-BUILT REVISIONS

1/24/08			

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT SENECA COUNTY			
TITLE OF DRAWING PROPOSED PIER FOOTING REINFORCEMENT PLANS			
CONTRACT NUMBER: TAS 98-8B		DATE: 3/98	
DRAWING NUMBER: C12			

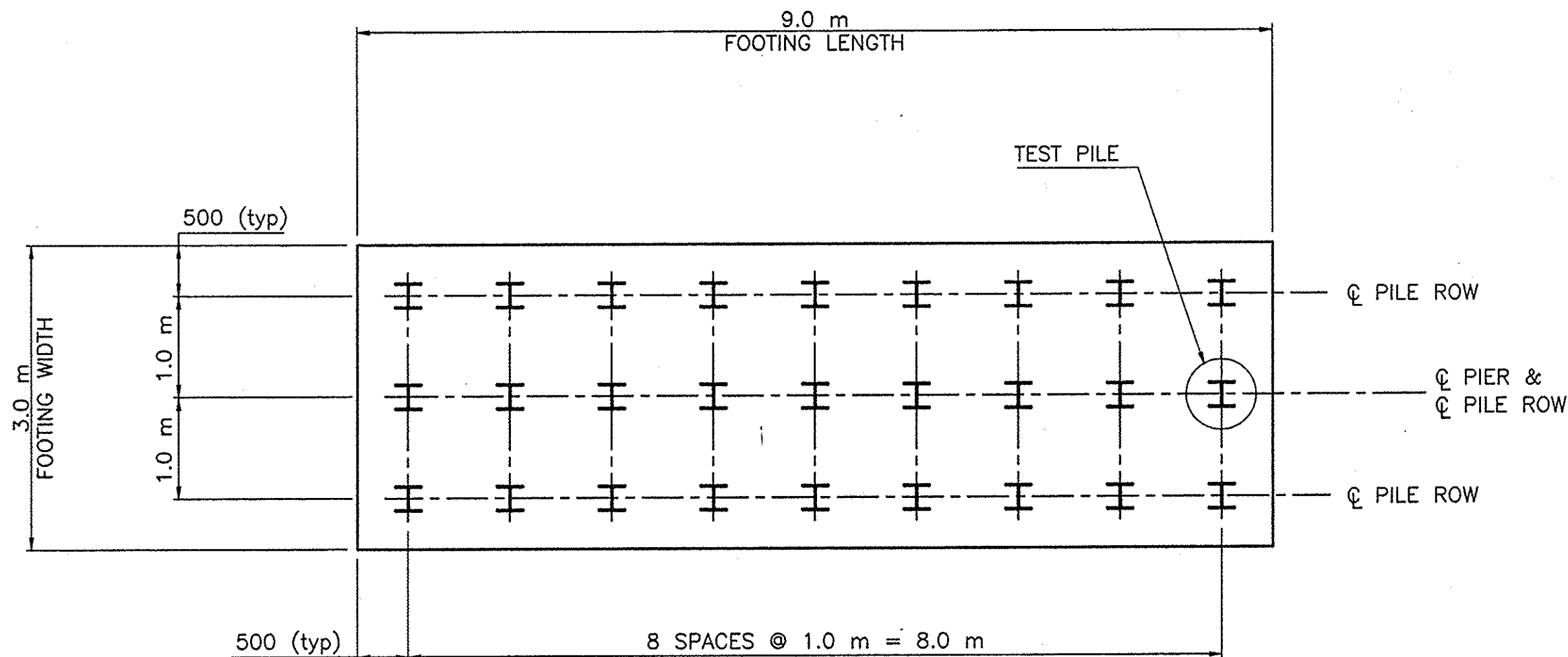


BEARING TIE-DOWN BRACKET SHOWN

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT SENECA COUNTY			
TITLE OF DRAWING PROPOSED PIER FOOTING & PEDESTAL REINFORCEMENT			
CONTRACT NUMBER: TAS 98-88		DATE: 3/98	
DRAWING NUMBER: C13			

NOTE: ALL DIMENSIONS ARE SHOWN
IN MILLIMETERS UNLESS OTHERWISE NOTED.

FLABRIDGES COMMON SPERS
CHECKED BY:
DRAFTED BY:
DESIGNED BY:
IN CHARGE OF: *Rile G. Diller*



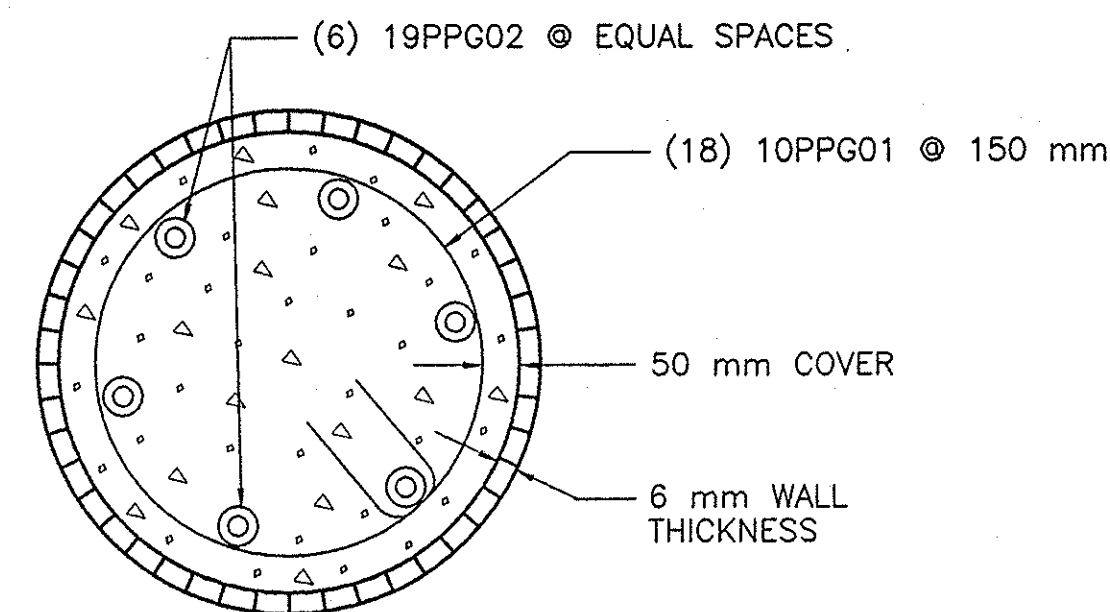
PILE LAYOUT

(M.P. 317.46; M.P. 319.19; & M.P. 324.16)
SCALE: 1 : 50

M.P. 317.46	M.P. 319.19	M.P. 324.16	M.P. 324.79
GRAVEL ROAD BRIDGE	BLACK BROOK ROAD BRIDGE	NINE FOOT ROAD BRIDGE	GRANGE HALL ROAD BRIDGE
AVERAGE AS-BUILT PILE TIP ELEVATIONS AT PIERS			
ELEV. 127.00 127.41	ELEV. 110.70 130.03	ELEV. 128.50 132.00	ELEV. 137.00 145.23

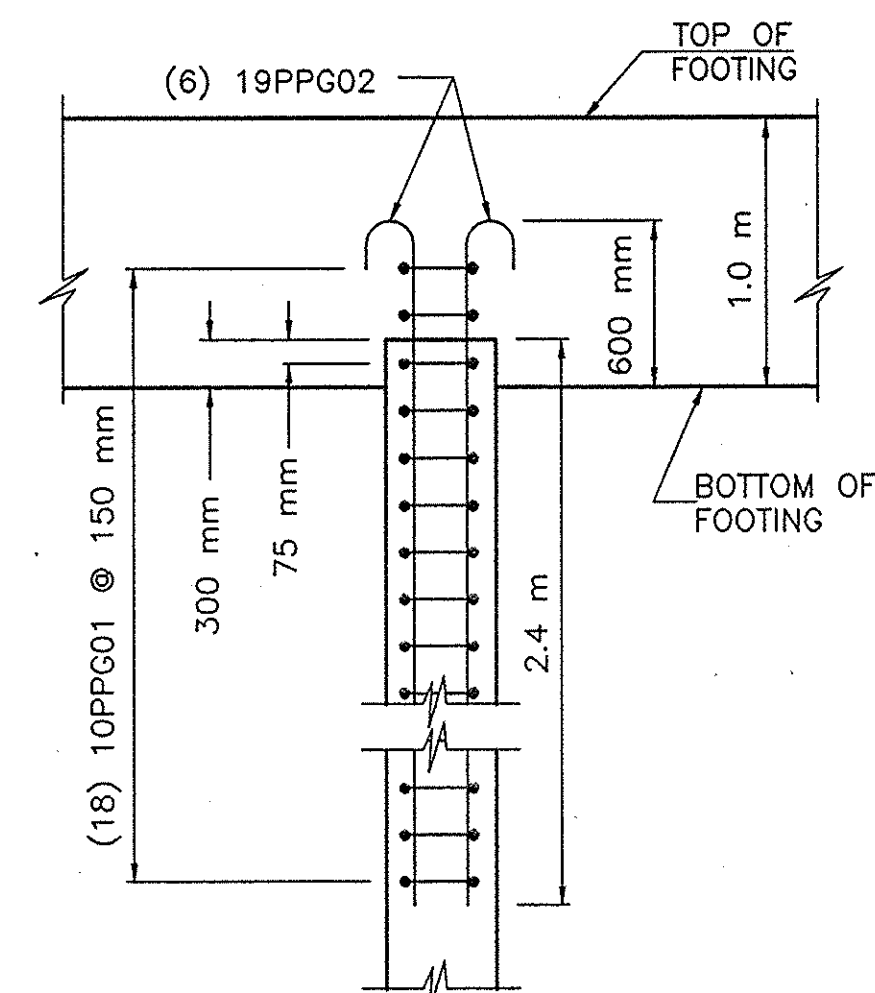
LEGEND

- NEW HP250x82 STEEL H-PILES AASHTO M270 GR50, ITEM 551.10M
- NEW C.I.P. CONCRETE PILE (VERTICAL) ITEM 551.11M
- EXISTING C.I.P. VERTICAL PILES TO REMAIN AND BE REUSED.
- EXISTING C.I.P. BATTERED PILES TO REMAIN AND BE REUSED.



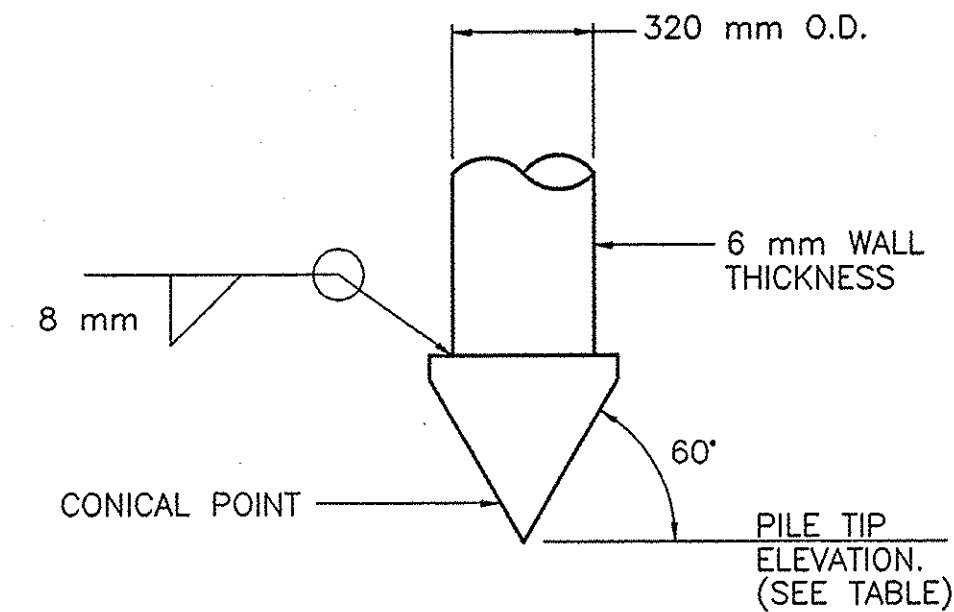
NEW CAST-IN-PLACE CONCRETE PILE SECTION

N.T.S.



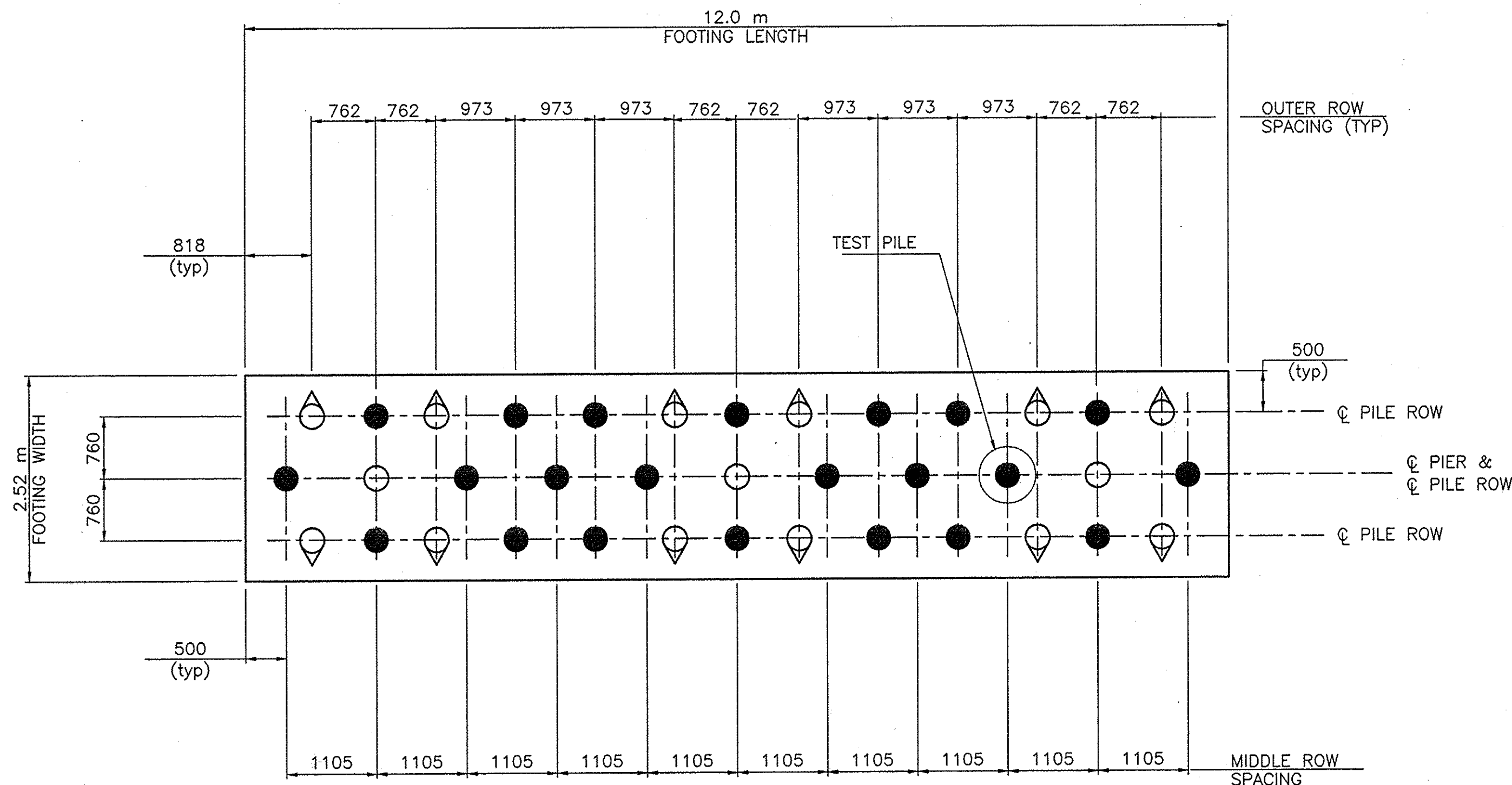
NEW CAST-IN-PLACE CONCRETE PILE REINFORCEMENT

N.T.S.



PILE TIP DETAIL

N.T.S.



PILE LAYOUT

(M.P. 324.79)
SCALE: 1 : 50

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

- THE CONTRACTOR SHALL PERFORM DYNAMIC LOAD TESTS ON THE PILES INDICATED ON THE CONTRACT PLANS. ADDITIONAL DYNAMIC LOAD TESTS MAY BE NECESSARY, IF ORDERED BY THE ENGINEER. THE CONTRACTOR SHALL FURNISH EQUIPMENT AND PERSONNEL FOR THESE TESTS AS STATED IN THE SPECIAL NOTES IN THE CONTRACT PROPOSAL. THE RESULTS OF THESE TESTS SHALL BE FORWARDED, IMMEDIATELY, TO THE ENGINEER AND THE CHIEF ENGINEER. THE DRIVING CRITERIA FOR THE PILES SHALL BE BASED ON THE RESULTS OF THESE TESTS. THE COST OF THE DYNAMIC LOAD TESTS SHALL BE INCLUDED IN THE PILE ITEM.
- PILES FOR SUBSTRUCTURES SHALL BE DRIVEN TO THE MINIMUM LENGTHS SHOWN ON THE PLANS REGARDLESS OF THE RESISTANCE TO DRIVING.
- PILES FOR THE EXISTING STRUCTURE SHALL BE REMOVED WHERE THEY INTERFERE WITH THE PILE DRIVING FOR THE NEW STRUCTURE.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE EXISTING ABUTMENTS WHICH ARE PILE SUPPORTED AND MAY INTERFERE WITH THE INSTALLATION OF THE PROPOSED PILES. IF THERE ARE PILE INTERFERENCES, THE CONTRACTOR SHALL BE REQUIRED TO EITHER EXTRACT THE EXISTING PILES OR RELOCATE THE PROPOSED PILE. THE CHIEF ENGINEER WILL DETERMINE IF EXTRACTION OR RELOCATION IS REQUIRED.
- UPON COMPLETION OF PILE DRIVING, ALL PILES THAT ARE NOT DRIVEN TO MINIMUM PILE LENGTH SHALL BE REDRIVEN TO INSURE FIRM CONTACT WITH THE ROCK OR BOULDER SURFACE. THE ENGINEER MAY DIRECT, AT HIS/HER DISCRETION, THAT A PILE BE REDRIVEN MORE THAN ONE TIME IF HE/SHE DETERMINES THAT A PILE HAS HEAVED OR MOVED LATERALLY, THEREFORE, UNSEATING THE PILE.
- ALL CAST-IN-PLACE PILES SHALL HAVE A MINIMUM WALL THICKNESS OF 6 mm MILLIMETERS.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE TIP ELEVATIONS FOR THE H-PILES WHICH WILL LATERALLY SUPPORT THE PIERS & ABUTMENTS. THE HAMMER PROVIDED TO DRIVE THESE PILES MUST BE CAPABLE OF ACHIEVING THE REQUIRED PENETRATION THROUGH THE COMPACT OVERBURDEN AND WEATHERED ROCK WHICH MAY PRESENT HARD DRIVING CONDITIONS.
- THE NEW MEDIAN PIER AT MP 321.08 IS ON A SPREAD FOOTING. NO PILES OF ANY TYPE SHALL BE INSTALLED AT THIS LOCATION.

ACTUAL AVERAGE PILE TIP ELEVATIONS SHOWN

DATE	DESCRIPTION	BY	SYM.

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS	
LOCATION OF PROJECT SENECA COUNTY	
TITLE OF DRAWING PROPOSED PIER PILE LAYOUTS	
	CONTRACT NUMBER: TAS 98-88
	DATE: 3/98
	DRAWING NUMBER: C14

MULTI-ROTATIONAL BEARING DEVICE NOTES:

FIXED BEARING INSTALLATION AND ALIGNMENT: THE CENTERLINE OF THE SOLE PLATES OR OTHER FIXED PORTIONS OF BEARING ASSEMBLIES ATTACHED TO THE STRUCTURAL STEEL SHALL NOT BE OFFSET FROM THE CENTERLINE OF BEARING STIFFENERS OR DIAPHRAGM CONNECTION PLATES BY MORE THAN ONE-HALF THE THICKNESS OF THE FLANGE AT THAT LOCATION, OR THE THICKNESS OF THE BEARING STIFFENER, WHICHEVER IS LESSER. THE CONTRACTOR SHALL SUPPLY MULTI-ROTATIONAL BRIDGE BEARINGS CONFORMING TO THE REQUIREMENTS OF THE BEARING ITEM SHOWN AND SUBJECT TO THE FOLLOWING CONDITIONS:

1. THE BEARING DEVICES SUPPLIED SHALL BE CAPABLE OF TRANSMITTING THE LOADS AND MOVEMENTS SHOWN ON THESE PLANS.
2. THE HEIGHT OF THE BEARING BETWEEN THE BEVELED PLATE AND THE MASONRY PLATE REPRESENTS THE ASSUMED TOTAL HEIGHT OF THE BEARING MECHANISM USED BY THE DESIGNER TO ESTABLISH CONCRETE DIMENSIONS. THE CONTRACTOR SHALL RECOMPUTE ALL TOP OF PEDESTAL ELEVATIONS TO ACCURATELY REFLECT THE HEIGHT OF BEARINGS SUPPLIED.
3. THE MASONRY PLATES SHOWN HAVE BEEN DESIGNED TO SUIT TYPICAL BEARINGS FOR THE DESIGN LOADS AND MOVEMENTS SHOWN. THE ALLOWABLE CONCRETE BEARING STRESS SHALL BE

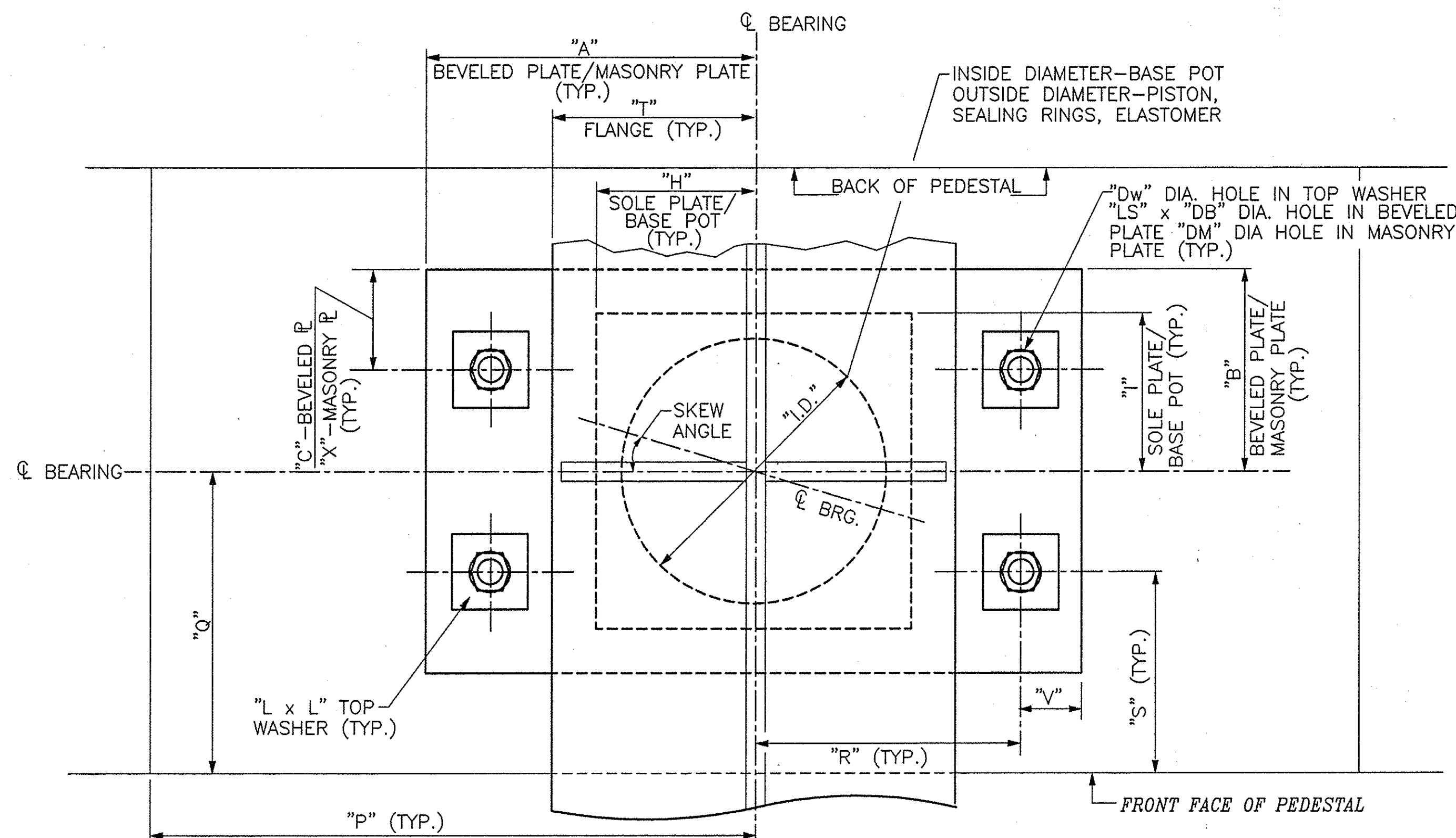
$$f_b \leq .30 f_c \sqrt{\frac{A_2}{A_1}}$$

WHERE f_b = BEARING STRESS ON THE LOADED CONCRETE AREA.
 A_2 = PLAN AREA OF CONCRETE PEDESTAL.
 A_1 = PLAN AREA OF STEEL MASONRY PLATE.

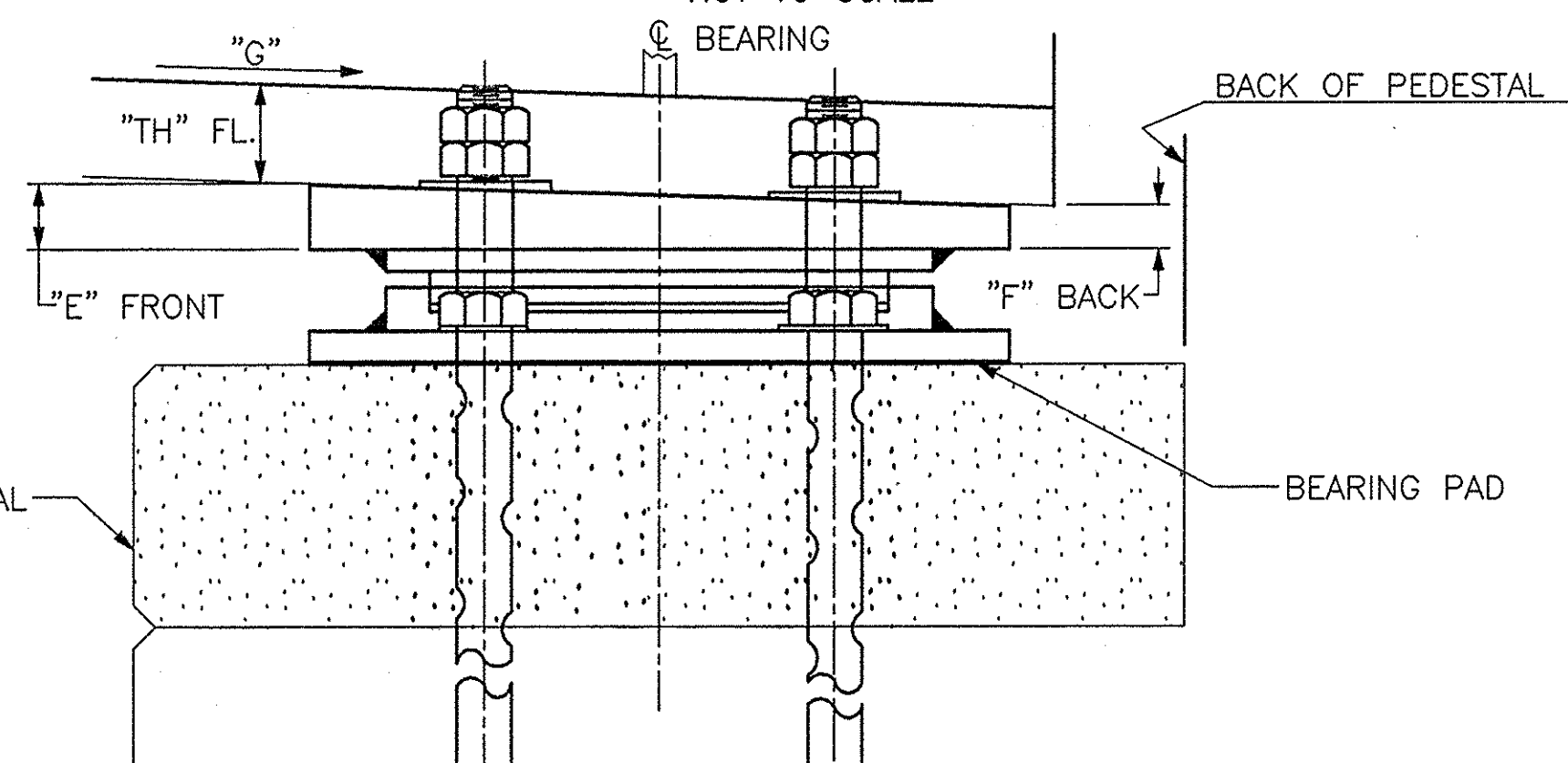
THE MAXIMUM CONCRETE BEARING STRESS SHALL NOT EXCEED 12411 kPa. IF THE PLAN AREA OF ANY MASONRY PLATE IS REVISED (INCREASED), IT SHALL FIT WITHIN THE PLAN DIMENSIONS SHOWN FOR THE PEDESTAL. THE MINIMUM CONCRETE EDGE DISTANCE SHALL BE 75mm AND THE MINIMUM LATERAL ANCHOR BOLT COVER SHALL BE 200mm.

4. THE BEARING DEVICE, MASONRY PLATE, BEARING PAD, SOLE PLATE, BEVELED PLATE, ANCHOR BOLTS, NUTS, WASHERS AND WASHER PLATES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 565.1722M—"TYPE MR FIXED BEARING".

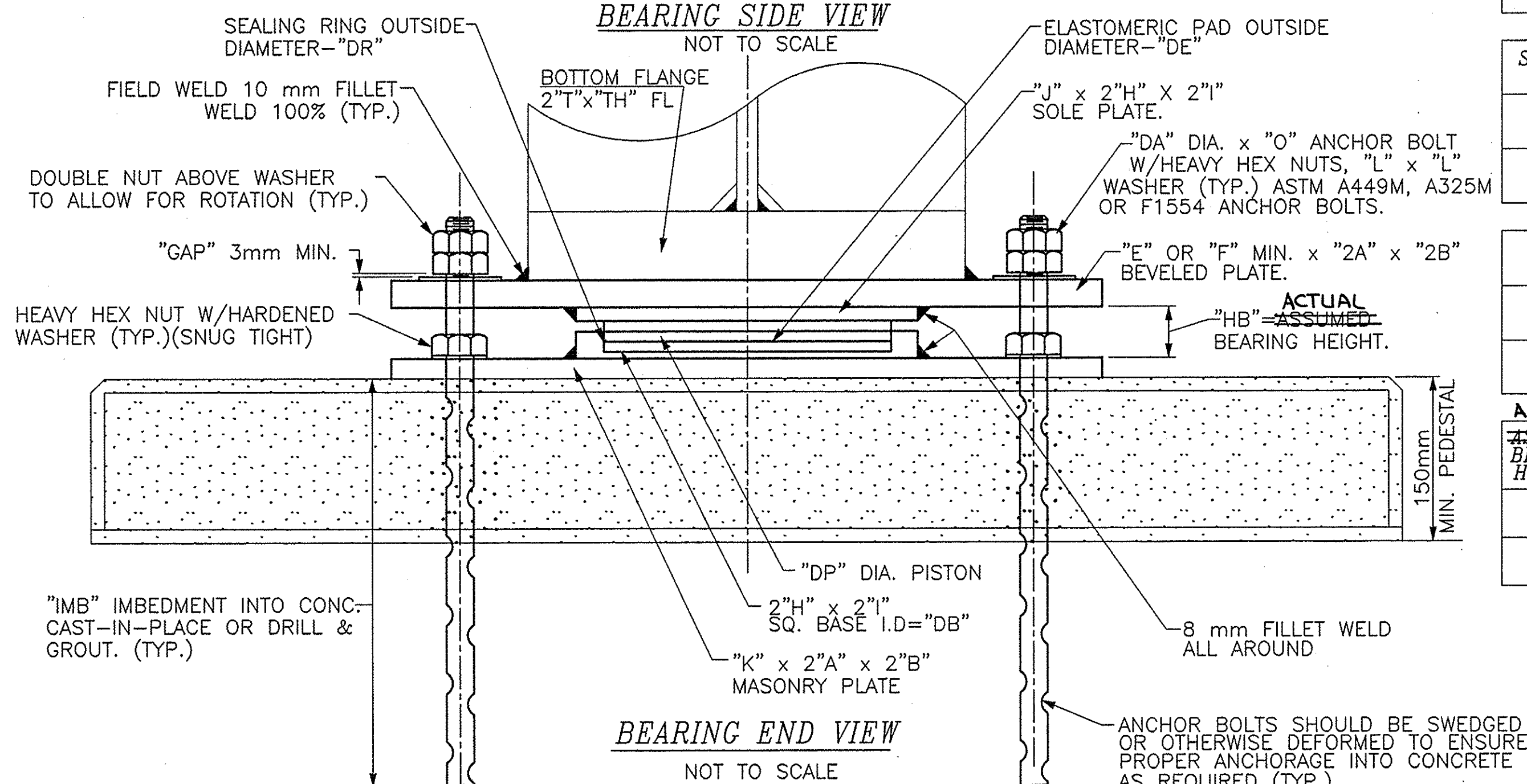
5. ALL BEARING CONNECTIONS SHALL BE CAPABLE OF RESISTING A LATERAL FORCE EQUAL TO 19% OF THE VERTICAL DESIGN LOAD (D.L.+L.L.+I) HORIZONTALLY IN ANY DIRECTION.
6. THE STEEL FOR THE BEARINGS SHALL BE AASHTO M270M GR345 UNLESS OTHERWISE NOTED.
7. ALL STEEL FABRICATION SHALL CONFORM TO THE PROVISIONS OF THE LATEST EDITION OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM) UNLESS OTHERWISE NOTED.
8. ANY ADJUSTMENTS IN ELEVATION NECESSARY TO ACCOMMODATE THE ACTUAL BEARING THAT IS SUPPLIED SHALL BE MADE BY CHANGING THE TOP OF THE PEDESTAL ELEVATIONS. THE MINIMUM PEDESTAL HEIGHT ALLOWED WILL BE 150mm. NO CHANGE IN THE BRIDGE SEAT ELEVATION WILL BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE C.E.E.S. IN LIEU OF CHANGING PEDESTAL ELEVATIONS THE CONTRACTOR MAY ELECT ONE OF THE FOLLOWING AT NO ADDITIONAL COST TO THE THRUWAY AUTHORITY:
 - A. USE A SHIM PLATE UNDER THE MASONRY PLATE. THE SIZE AND MATERIAL OF THE SHIM PLATE SHALL BE THE SAME AS THE MASONRY PLATE. ONLY ONE SHIM PLATE SHALL BE PERMITTED AND THE MINIMUM THICKNESS SHALL BE 12mm
 - B. INCREASE THE THICKNESS OF THE MASONRY PLATE.
9. ANCHOR BOLTS, WASHERS, WASHER PLATES AND NUTS SHALL MEET THE REQUIREMENTS OF SUBSECTION 723-60. THEY SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF MATERIAL SPECIFICATION 719-01, "GALVANIZED COATINGS AND REPAIR METHODS". THEIR COST (INCLUDING GALVANIZING) SHALL BE INCLUDED IN THE UNIT PRICE FOR THE BEARING ITEM.
10. THE MASONRY PLATE AND BEVELED PLATE SHALL BE SHOP METALIZED OR GALVANIZED (MANUFACTURE'S PREFERENCE). THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.
11. THE MINIMUM VERTICAL DESIGN LOAD IS 1550 kN.
12. SHOP DRAWINGS SHALL BE SUBMITTED TO THE THRUWAY AUTHORITY FOR APPROVAL AND SHALL INCLUDE ALL WELDING AND BONDING PROCEDURES.
13. THE BASE POT AND SOLE PLATE SHALL BE SHOP METALIZED OR GALVANIZED (MANUFACTURE'S PREFERENCE). THE COST TO BE INCLUDED IN THE PRICE BID FOR THE BEARING ITEM.
14. THE BEARING PAD SHALL HAVE THE SAME HORIZONTAL DIMENSIONS AS THE MASONRY PLATE AND A THICKNESS OF 3mm±. THE BEARING PAD MATERIAL SHALL CONFORM TO N.Y.S. STANDARD SPEC. 728-01 OR 728-02.

**BEARING PLAN**

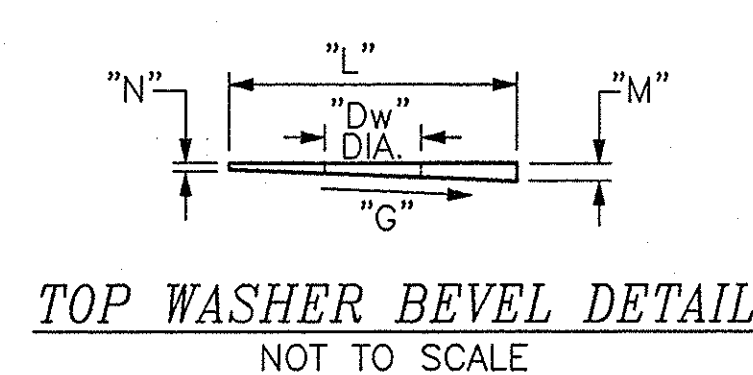
NOT TO SCALE

**BEARING SIDE VIEW**

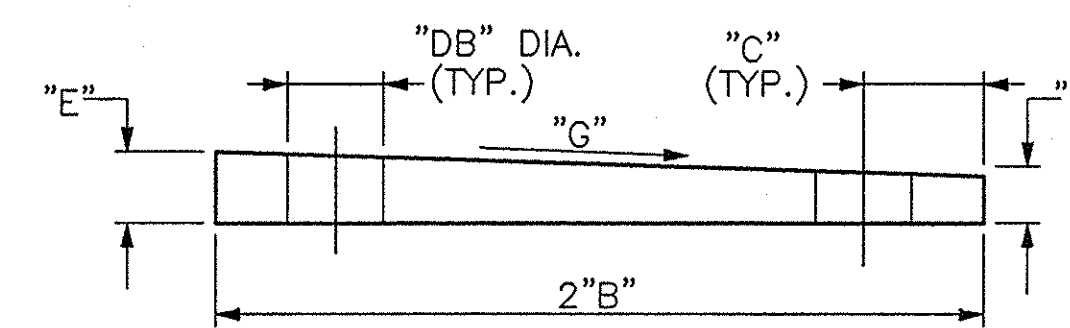
NOT TO SCALE

**BEARING END VIEW**

NOT TO SCALE

**TOP WASHER BEVEL DETAIL**

NOT TO SCALE

**BEVELED PLATE DETAIL**

NOT TO SCALE

BEVELED PLATE									SOLE PLATE			PISTON
A	B	C	V	E	F	DBxLS Ø	G	R	H	I	J	DP
268	218	75	50	25	25	35	0	218	168	168	16	280

SEALING RING	ELASTOMERIC PAD	BASE POT			MASONRY PLATE						
DR	DE	H	I	DB	A	B	X	V	R	K	Dm Ø
280	280	168	168	280	268	218	75	50	218	25	35

TOP WASHERS				ANCHOR BOLTS				PEDESTAL				BOTTOM FLANGE		
Dw Ø	L	M	N	IMB	O	GAP	DA	P	Q	R	S	T	U	TH FL
28	75	3	3	375	550	3	25	1125	500	218	357	228		45

ACTUAL ASSUMED BEARING HEIGHT	
HB	SKEW ANGLE
283	0°

BEARING HEIGHT REVISION

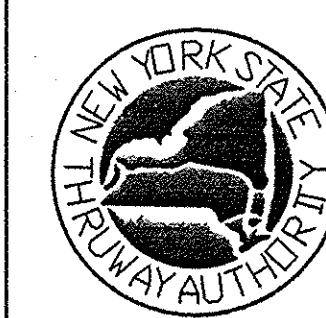
*MP 319.19 BLACK BROOK ROAD
 MP 321.08 BIRDSEY ROAD
 MP 324.16 NINE FOOT ROAD
 MP 324.79 GRANGE HALL ROAD

DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

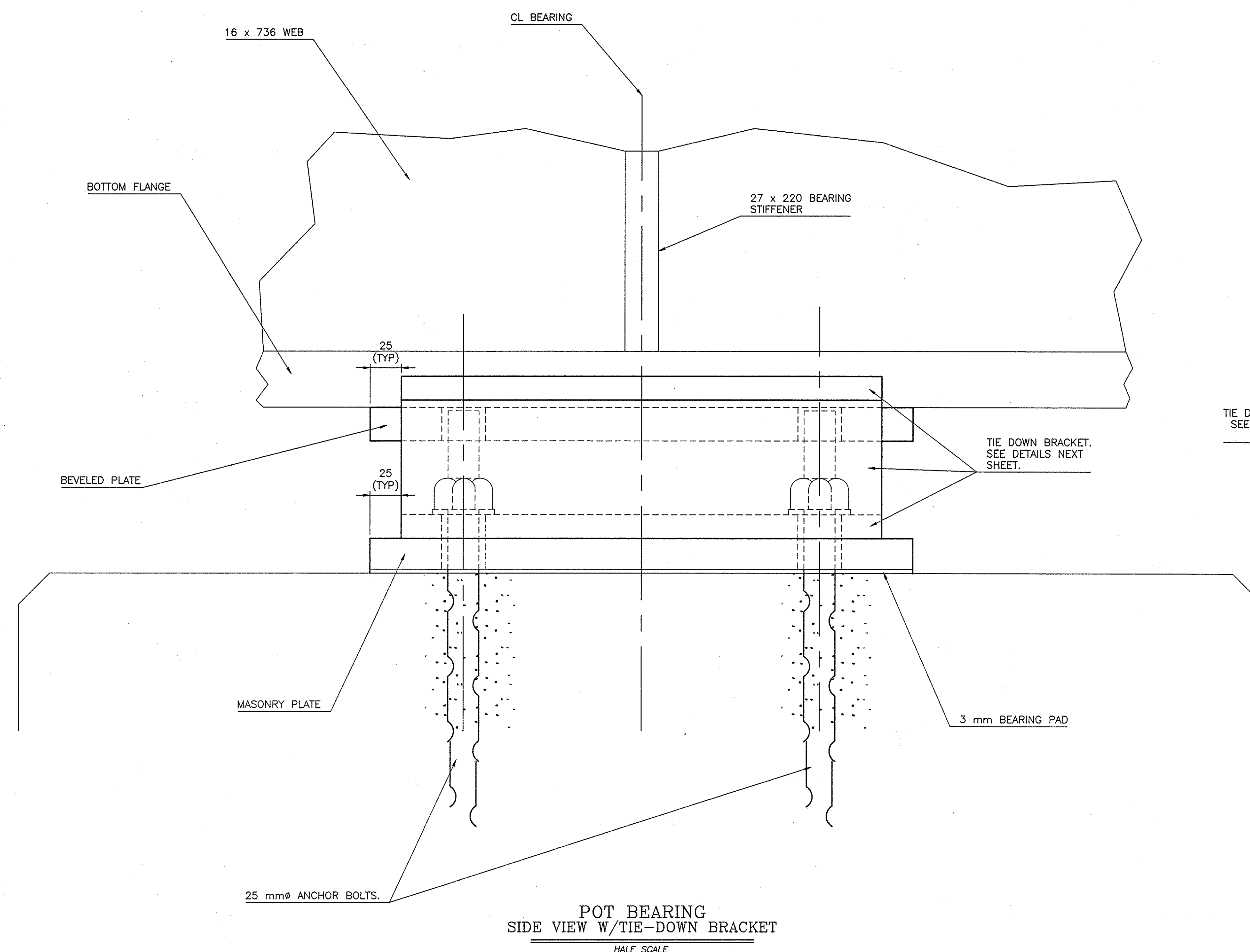
TITLE OF PROJECT	5 BRIDGE REPLACEMENTS
LOCATION OF PROJECT	SENECA COUNTY*
TITLE OF DRAWING	MULTI-ROTATIONAL FIXED BEARING DETAILS



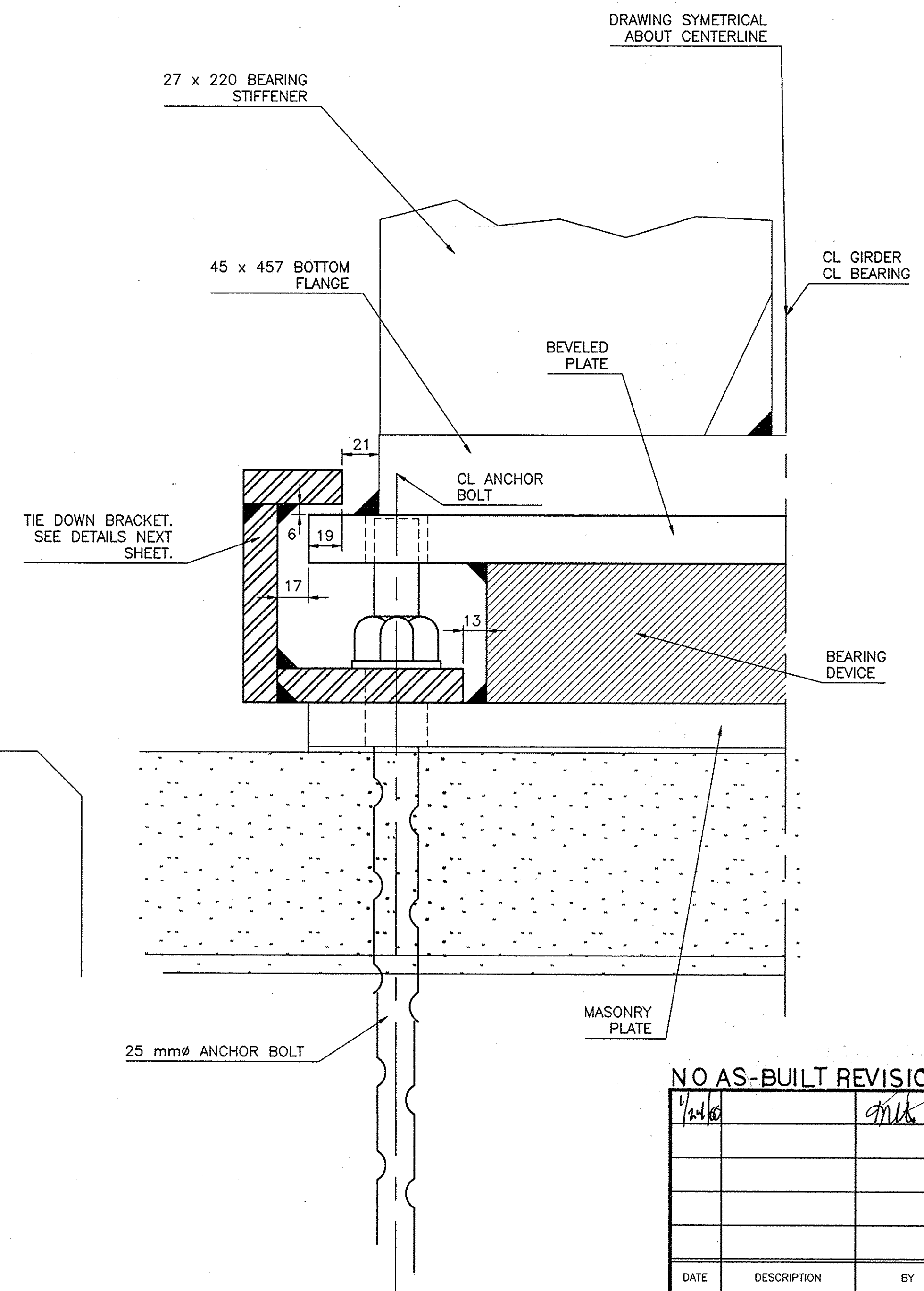
CONTRACT NUMBER:	TAS 98-8B
DATE:	3/98
DRAWING NUMBER:	C15

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.

IN CHARGE OF: *Paul A. D'Amico*
 DESIGNED BY: *S. E. Provost*
 DRAFTED BY: *P. E. Provost*
 CHECKED BY: *F. J. 9808B / COMMON / BRG DETAIL*



POT BEARING
 SIDE VIEW W/TIE-DOWN BRACKET
 HALF SCALE



POT BEARING
 END VIEW W/TIE-DOWN BRACKET
 HALF SCALE

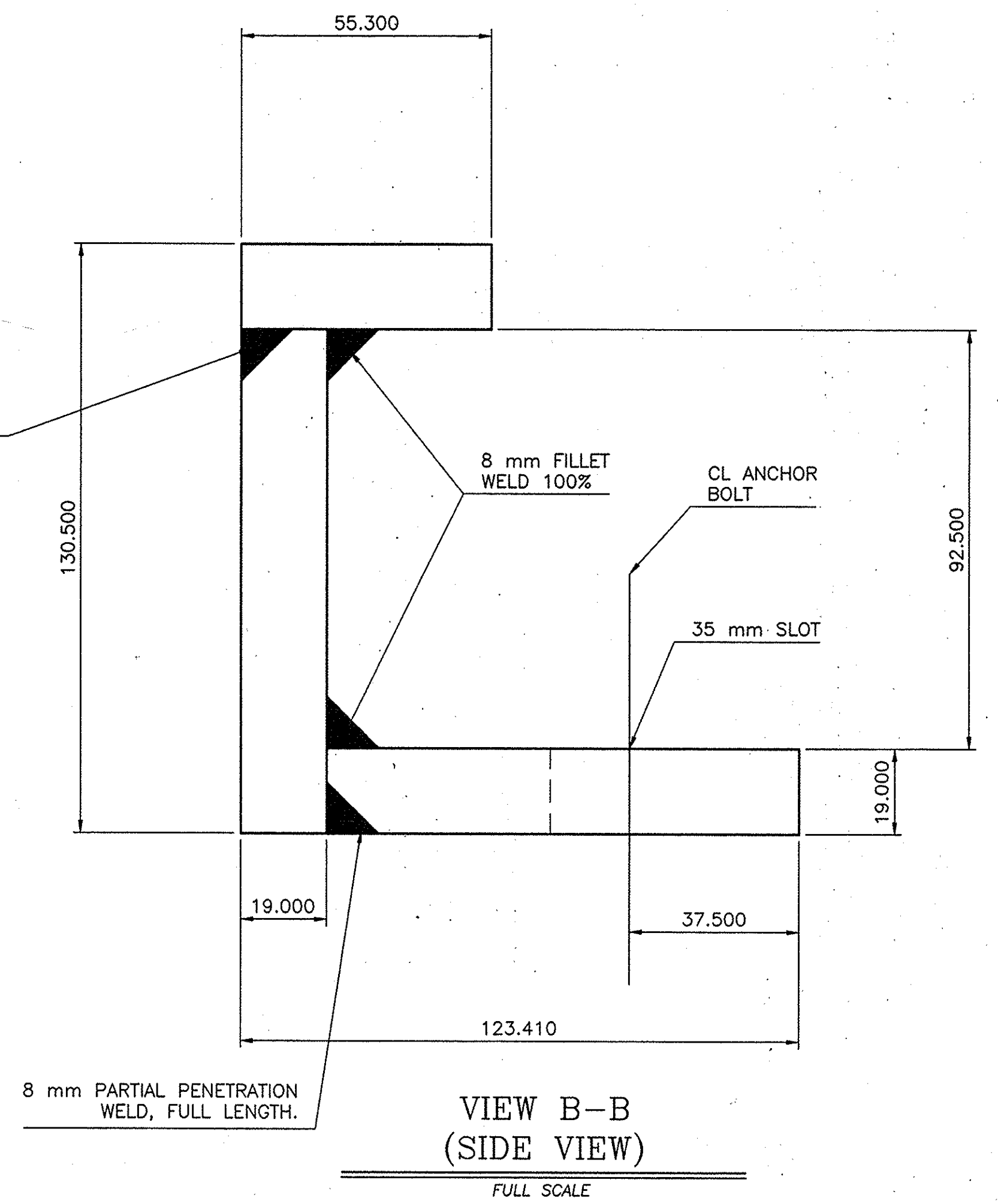
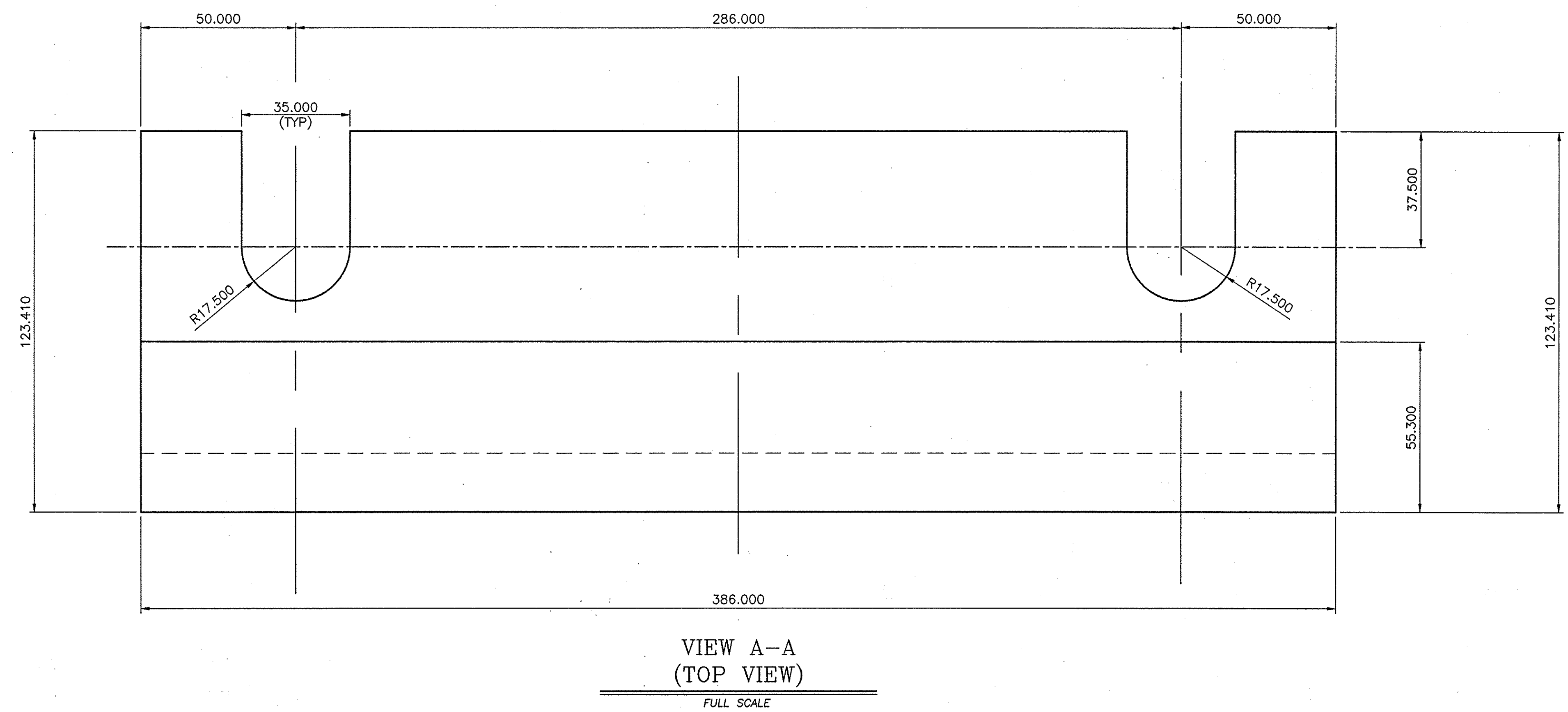
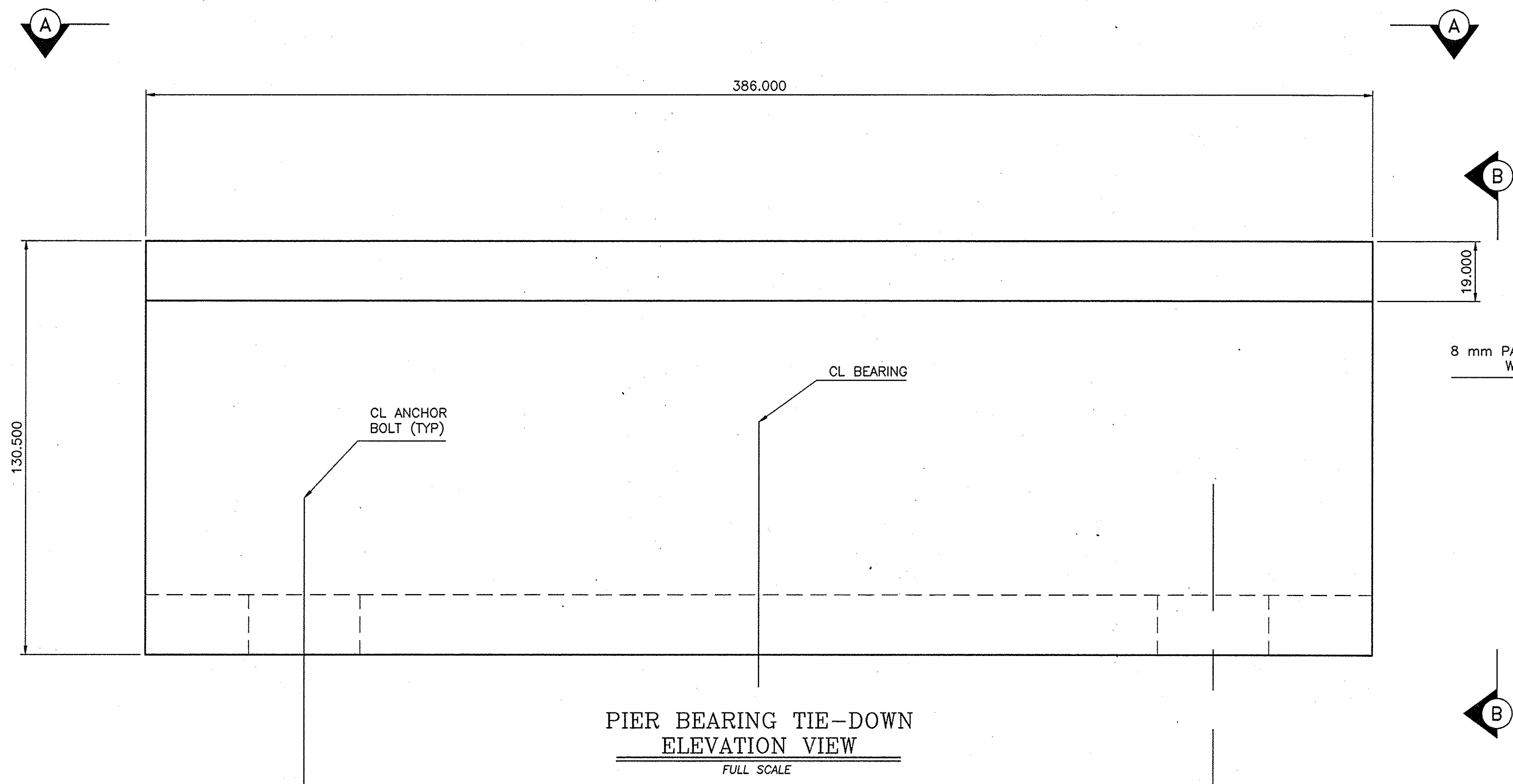
NOTE:
 ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
 UNLESS OTHERWISE NOTED. ALL ELEVATIONS
 ARE SHOWN IN METERS.

NO AS-BUILT REVISIONS			
DATE	DESCRIPTION	BY	SYM.

REVISIONS NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING AND MAINTENANCE 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS	
LOCATION OF PROJECT SENECA COUNTY	
TITLE OF DRAWING PIER BEARING TIE-DOWN RETROFIT DETAIL 1 OF 2	
CONTRACT NUMBER: TANE 98-88	DATE: 9/29/98
DRAWING NUMBER: BRG-1	



IN CHARGE OF: *Richard A. White*
DESIGNED BY:
DRAFTED BY: P. E. PROVOST
CHECKED BY: *[Signature]*
F./9808/COMMON/BRGDETAIL



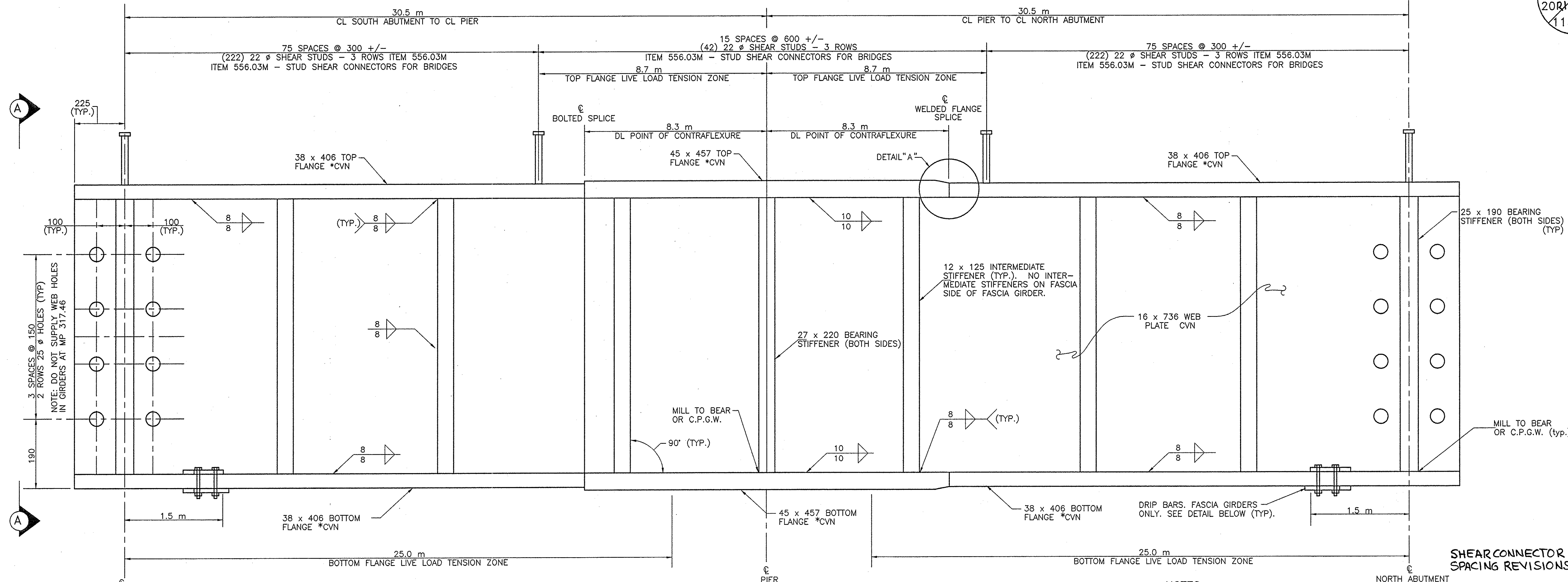
NOTE:
1. ALL STEEL AASHTO M270 GR50W GALVANIZED OR METALIZED.
2. TOTAL QUANTITY = 50.2 FOR EACH POT BEARING.

NOTE:
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

NO AS-BUILT REVISIONS			
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING AND MAINTENANCE 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT SENECA COUNTY			
TITLE OF DRAWING PIER BEARING TIE-DOWN RETROFIT DETAIL 2 OF 2			
CONTRACT NUMBER: TAS 98-8B		DATE: 9/29/98	
DRAWING NUMBER: BRG-2			

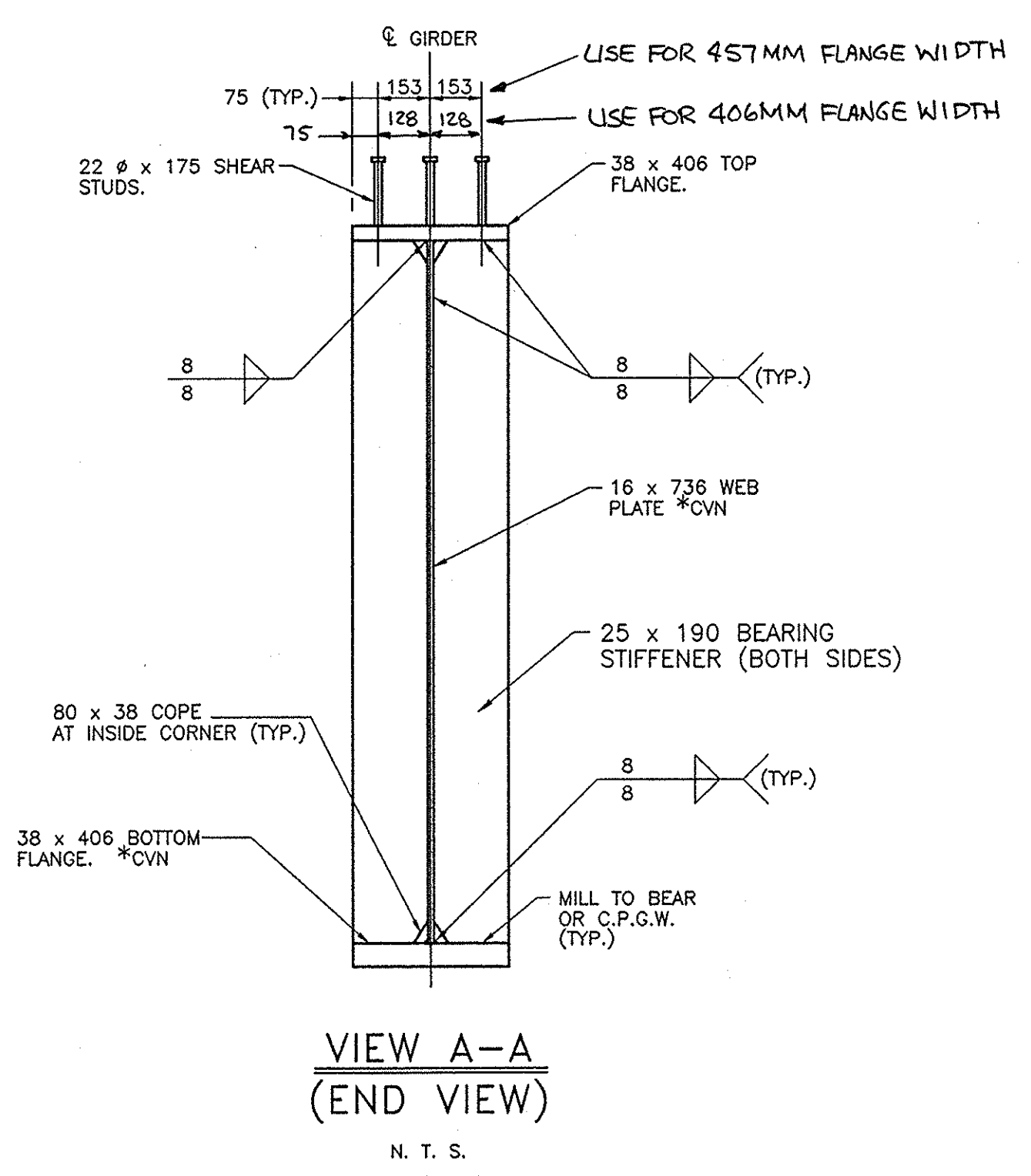
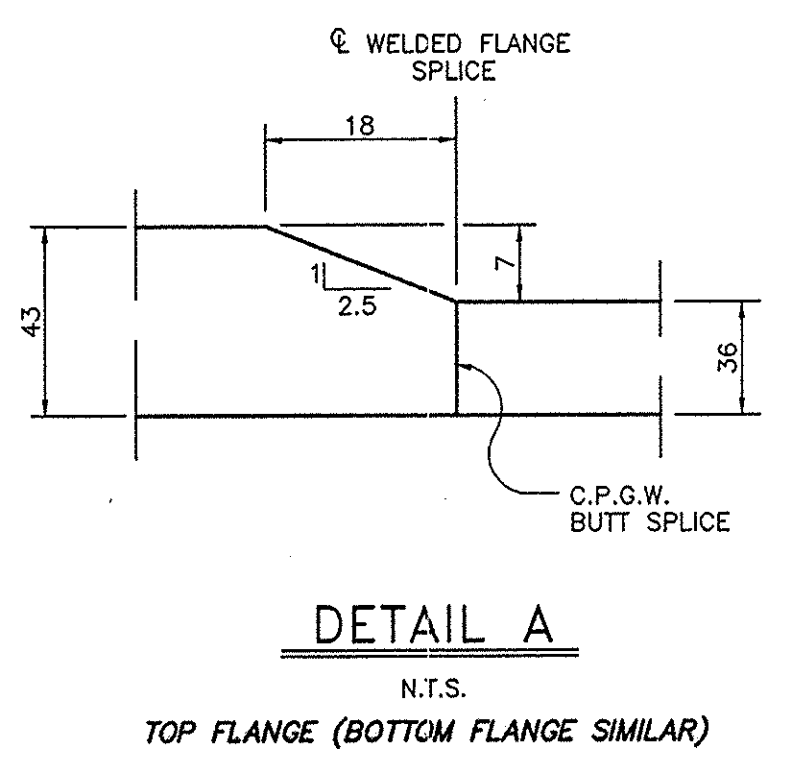
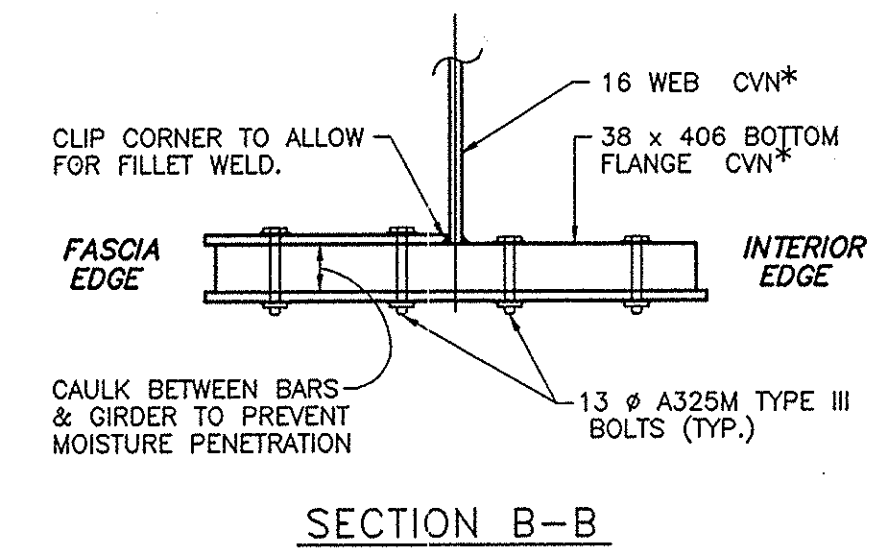
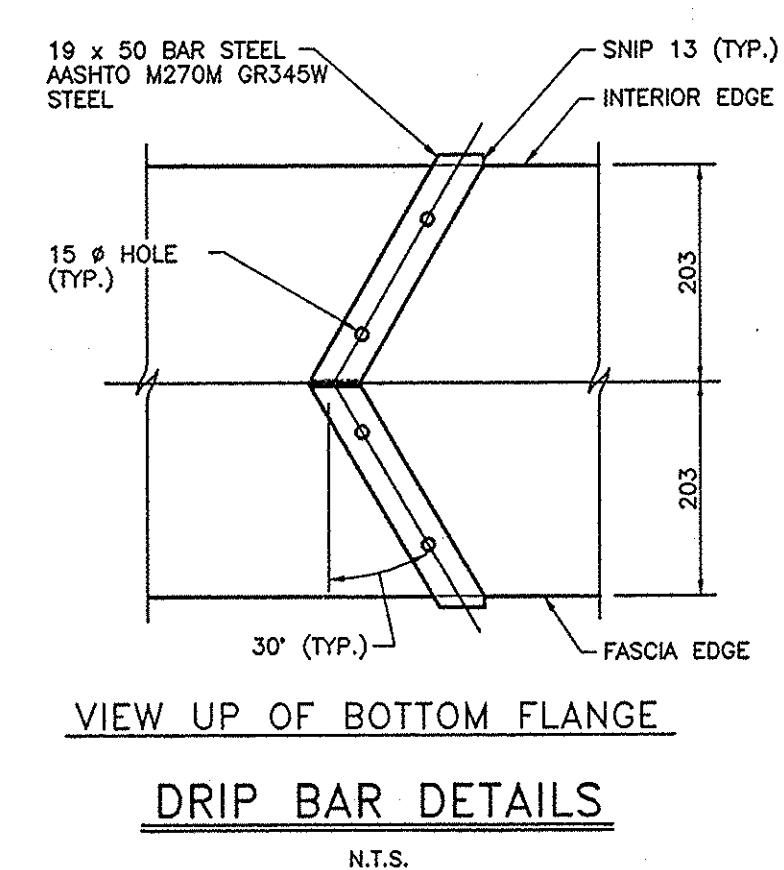
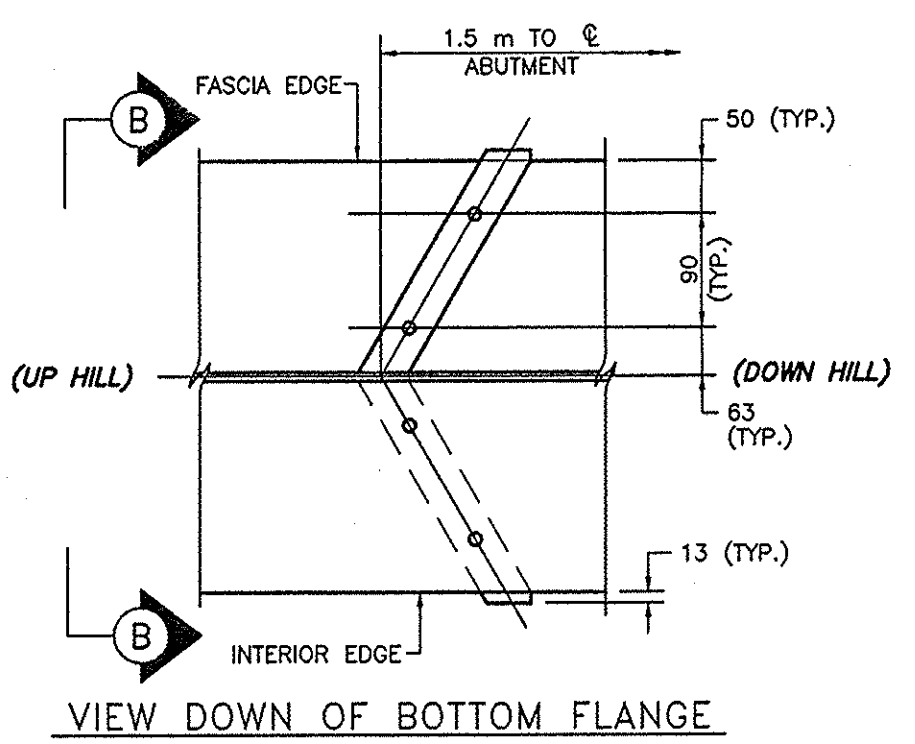


IN CHARGE OF: *Paul A. Adkins*
DESIGNED BY: *[Signature]*
DRAFTED BY: *[Signature]*
CHECKED BY: *[Signature]*
CL BRIDGES COMMON ORDER



TYPICAL GIRDER ELEVATION

N.T.S.



NOTES:

- *CVN INDICATES CHARPY V-NOTCH TEST REQUIRED.
- 1. ALL STRUCTURAL STEEL SHALL BE HPS 485W UNLESS OTHERWISE NOTED.
- 2. ALL BEARING STIFFENERS SHALL BE VERTICAL AFTER FULL DEAD LOADING.
- 3. INTERMEDIATE STIFFENERS SHALL BE PERPENDICULAR TO THE BOTTOM FLANGE.
- 4. ALL INTERMEDIATE STIFFENERS ON GIRDERS SHALL BE PERPENDICULAR TO THE WEB.
- 5. NO TRANSVERSE STIFFENERS (EXCEPT AT BEARINGS) ARE TO BE PLACED ON THE FASCIA SIDE OF THE FASCIA GIRDERS.
- 6. SEE BOLTED SPLICE DETAILS ON DRAWING C17.
- 7. SHOP DRAWINGS SHALL BE SUBMITTED TO THE THRUWAY AUTHORITY FOR ALL STRUCTURAL STEEL FABRICATION INCLUDING WELDING PROCEDURES.
- 8. ALL BEARING STIFFENERS SHALL BE PERPENDICULAR TO THE WEB.
- 9. SURFACES BETWEEN GIRDER WEB AND FLANGE PLATES SHALL BE BLAST CLEANED PRIOR TO ASSEMBLY AND REMAIN FREE OF ANY DIRT, OIL, PRIMER OR PAINT.
- 10. ALL STRUCTURAL STEEL SHALL BE SHIPPED AND ERECTED UNDER ITEM 25564.5198mm.
- 11. ALL STEEL, BOLTS, NUTS, & WASHERS WILL BE SUPPLIED BY THE THRUWAY AUTHORITY AND AVAILABLE TO THE CONTRACTOR AT THE FABRICATION SHOP.

WELDING NOTES

- 1. ALL CONNECTION PLATES SHALL BE WELDED TO THE WEB AND BOTH FLANGES.
- 2. FITTED CONNECTION PLATES SHALL NOT BE DRIVEN INTO PLACE WITH SUFFICIENT FORCE TO DISTORT THE FLANGE, WEB OR CONNECTION PLATE.

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

NOTE TO CONTRACTOR

NO WELDING SHALL BE ALLOWED WITHIN THE TENSION ZONES UNLESS SPECIFICALLY NOTED. THE ATTACHMENT OF FORMING DEVICES OR OTHER CONSTRUCTION AIDS BY WELDING WITHIN THE TENSION AREAS SHOWN IS PROHIBITED. ALL FIELD WELDING PROCEDURES MUST BE APPROVED BY THE THRUWAY AUTHORITY.

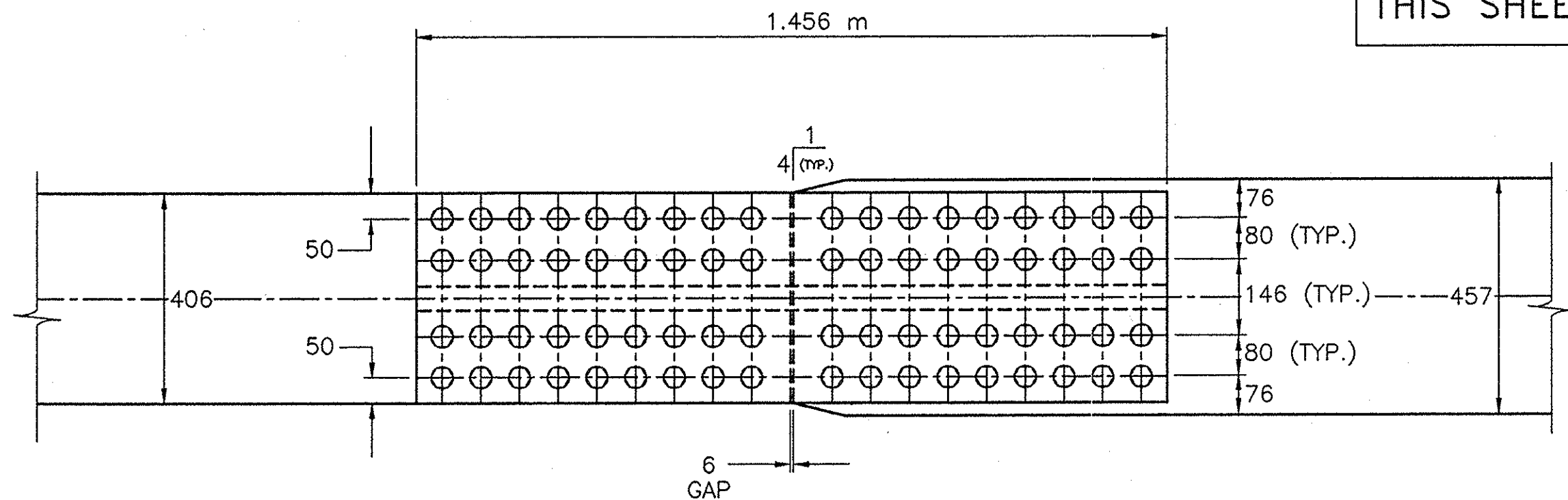
DATE	DESCRIPTION	BY	SYM.
REVISONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT SENECA COUNTY			
TITLE OF DRAWING GIRDER ELEVATION AND DETAILS			
CONTRACT NUMBER: TAS 98-8B		DATE: 3/98	
DRAWING NUMBER: C16			

THIS SHEET, 21F1, SUPERSEDES SHEET 21 OF 113.

SPLICE NOTES:

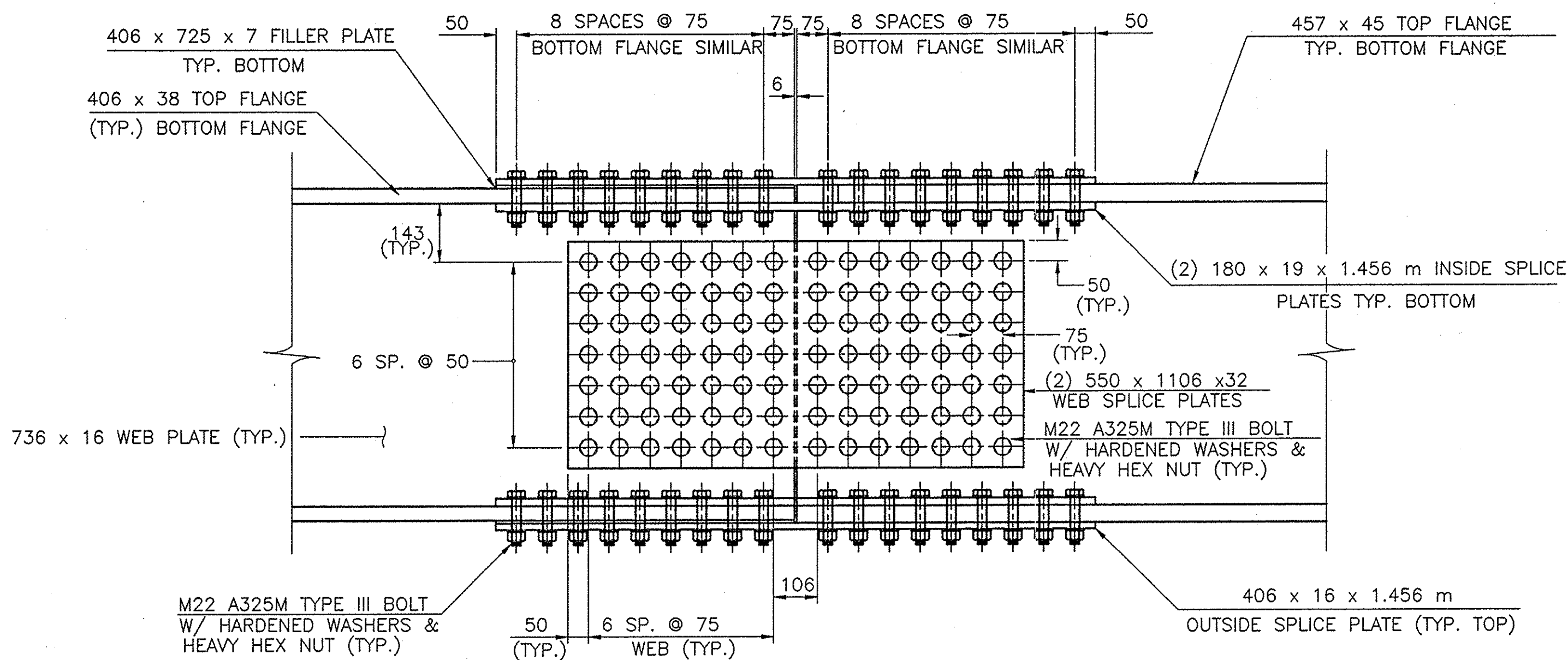
1. ALL BOLTS FOR BOLTED SPLICE ARE M22 ASTM A325M TYPE III BOLTS WITH HEAVY HEX NUTS AND HARDENED WASHERS.
2. ALL HOLES FOR BOLTS IN SPLICE SHALL BE 24 mm DIAMETER.
3. ALL FAYING SURFACES SHALL BE BLAST CLEANED TO A SSPC SP6 TEXTURE AND SHALL QUALIFY AS AN AASHTO "CLASS B" SURFACE.
4. ALL STEEL SURFACES TO REMAIN CLEAN AND UNPAINTED.

NOTE: SEE DRAWING A18 FOR MP 317.46 CAMBER INFORMATION.



TOP FLANGE SPLICE PLAN
BOTTOM FLANGE SPLICE SIMILAR

SCALE: 1 : 10

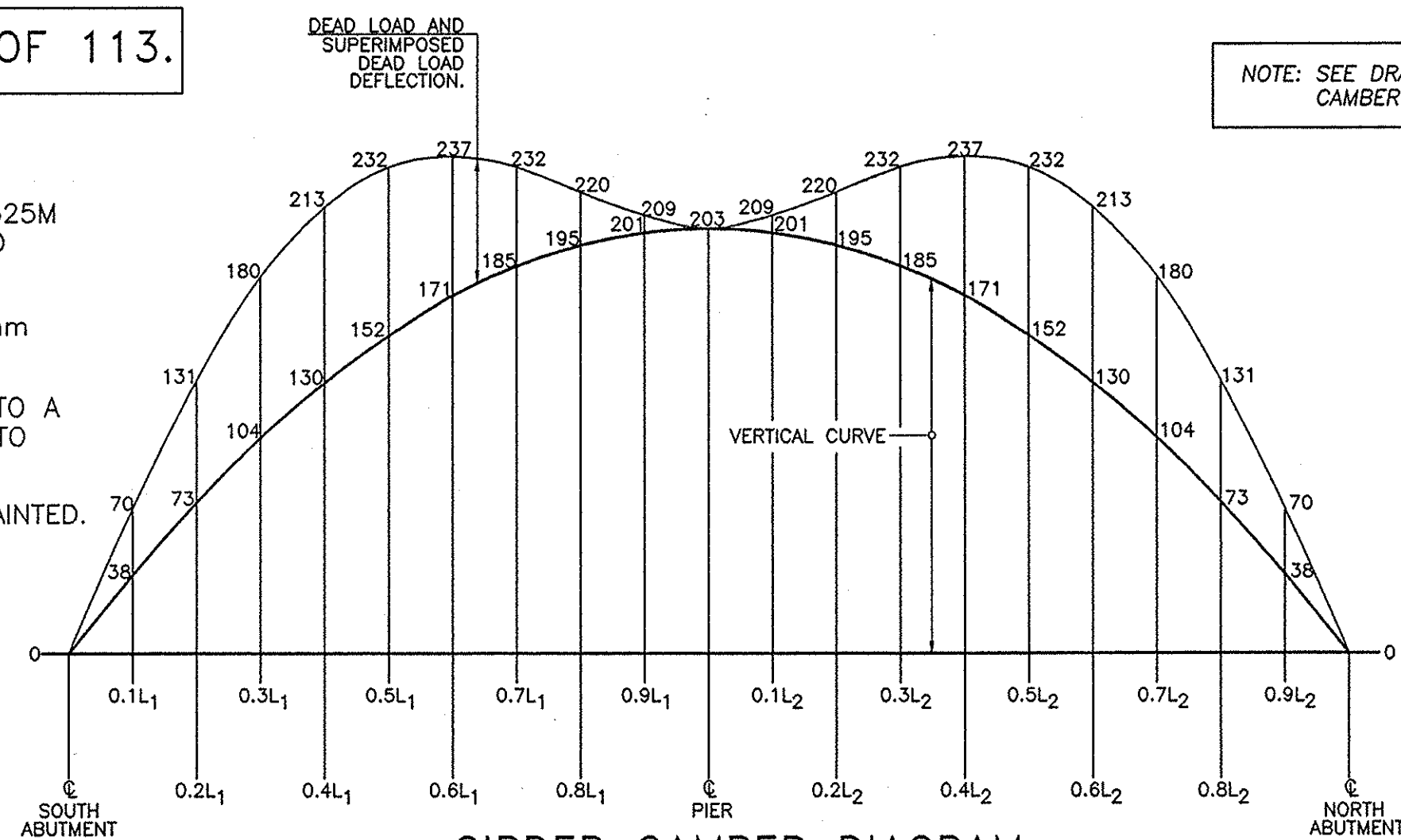


GIRDER BOLTED SPLICE
ELEVATION

SCALE: 1 : 10

CAMBER NOTES

1. THE CAMBER LABELED "VERTICAL CURVE" IN THE TABLE IS THE CAMBER REQUIRED TO FOLLOW THE VERTICAL CURVE.
2. THE CAMBER LABELED "STEEL D.L." IN THE TABLE IS THE CAMBER REQUIRED TO OFFSET THE DEFLECTION DUE TO THE DEAD LOAD WEIGHT OF THE GIRDER AS FABRICATED.
3. THE CAMBER LABELED "CONCRETE D.L." IN THE TABLE IS THE CAMBER REQUIRED TO OFFSET THE DEFLECTION DUE TO THE DEAD LOAD WEIGHT OF THE CONCRETE SLAB.
4. THE CAMBER LABELED "SUPERIMPOSED D.L." IN THE TABLE IS THE CAMBER REQUIRED TO OFFSET THE DEFLECTION DUE TO THE WEIGHT OF THE CURB, SIDEWALK, RAILING OR BARRIER, AND WEARING SURFACE.
5. THE TOTAL CAMBER IS THE SUM OF VERTICAL CURVE, STEEL DEAD LOAD, CONCRETE DEAD LOAD AND SUPERIMPOSED DEAD LOAD. ALL CAMBER OFFSETS ARE MEASURED VERTICALLY TO THE TOP OF THE WEB, FROM A STRAIGHT REFERENCE LINE DRAWN FROM THE INTERSECTION OF THE TOP OF THE WEB AND THE CENTERLINE OF THE BEARINGS AT ONE END OF THE GIRDER, TO THE CORRESPONDING POINT AT THE OTHER END OF THE GIRDER.
6. POSITIVE NUMBERS IN THE TABLE ARE ABOVE THE STRAIGHT REFERENCE LINE.
7. NEGATIVE NUMBERS IN THE TABLE ARE BELOW THE STRAIGHT REFERENCE LINE.
8. THE CAMBER OFFSETS ARE TABULATED IN MILLIMETERS.

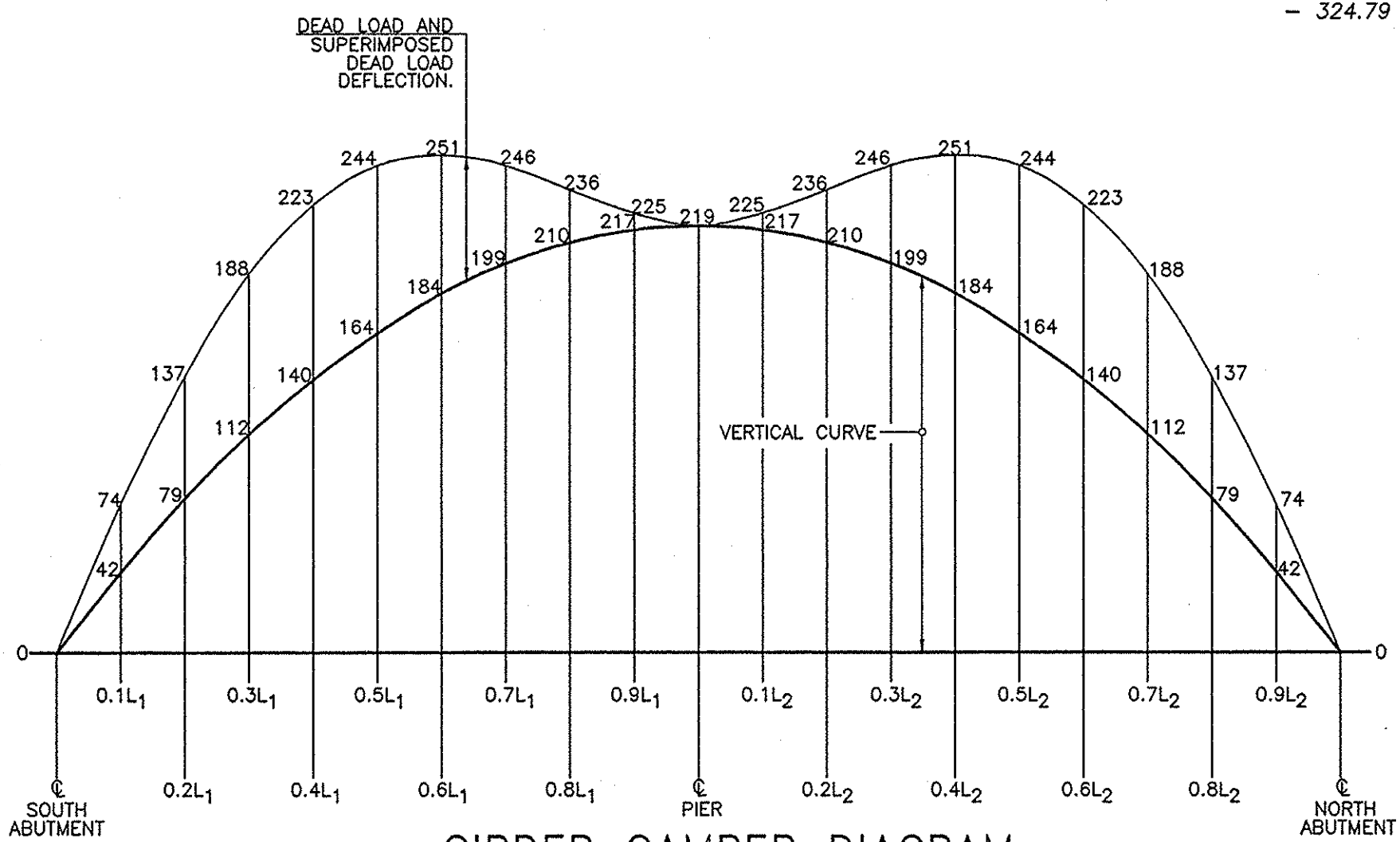


GIRDER CAMBER DIAGRAM

N.T.S.
FOR GIRDERS AT MP'S - 319.19
- 321.08
- 324.79

GIRDER CAMBER TABLE																					
CAMBER	© SO. ABUT.	0.1L ₁	0.2L ₁	0.3L ₁	0.4L ₁	0.5L ₁	0.6L ₁	0.7L ₁	0.8L ₁	0.9L ₁	© PIER	0.1L ₂	0.2L ₂	0.3L ₂	0.4L ₂	0.5L ₂	0.6L ₂	0.7L ₂	0.8L ₂	0.9L ₂	© NO. ABUT.
STEEL D.L.	0	7	12	16	17	16	14	10	5	2	0	2	5	10	14	16	17	16	12	7	0
CONCRETE D.L.	0	22	41	53	58	56	46	32	18	5	0	5	18	32	46	56	58	53	41	22	0
SUPERIMPOSED D.L.	0	3	5	7	8	8	7	5	3	1	0	1	3	5	7	8	8	7	5	3	0
VERTICAL CURVE	0	38	73	104	130	152	171	185	195	201	203	201	195	185	171	152	130	104	73	38	0
TOTAL	0	70	131	180	213	232	237	232	220	209	203	209	220	232	237	232	213	180	131	70	0

N.T.S.
FOR GIRDERS AT MP'S - 319.19
- 321.08
- 324.79



GIRDER CAMBER DIAGRAM

N.T.S.
FOR GIRDERS AT MP'S - 324.16

GIRDER CAMBER TABLE																					
CAMBER	€ SO. ABUT.	0.1L ₁	0.2L ₁	0.3L ₁	0.4L ₁	0.5L ₁	0.6L ₁	0.7L ₁	0.8L ₁	0.9L ₁	€ PIER	0.1L ₂	0.2L ₂	0.3L ₂	0.4L ₂	0.5L ₂	0.6L ₂	0.7L ₂	0.8L ₂	0.9L ₂	€ NO. ABUT.
STEEL D.L.	0	7	12	16	17	16	14	10	5	2	0	2	5	10	14	16	17	16	12	7	0
CONCRETE D.L.	0	22	41	53	58	56	46	32	18	5	0	5	18	32	46	56	58	53	41	22	0
SUPERIMPOSED D.L.	0	3	5	7	8	8	7	5	3	1	0	1	3	5	7	8	8	7	5	3	0
VERTICAL CURVE	0	42	79	112	140	164	184	199	210	217	219	217	210	199	184	164	140	112	79	42	0
TOTAL	0	74	137	188	223	244	251	246	236	225	219	225	236	246	251	244	223	188	137	74	0

FOR GIRDERS AT MP'S - 324.16

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

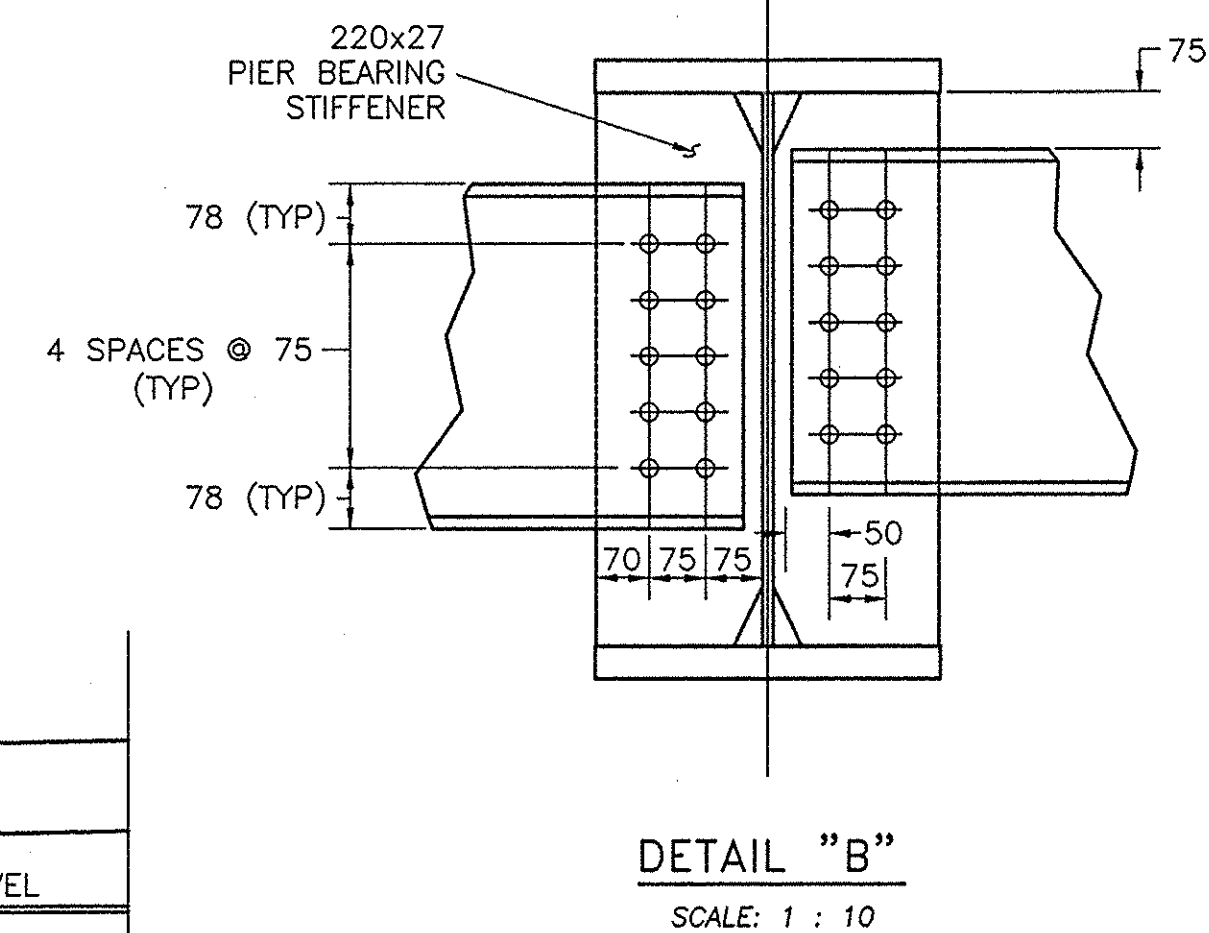
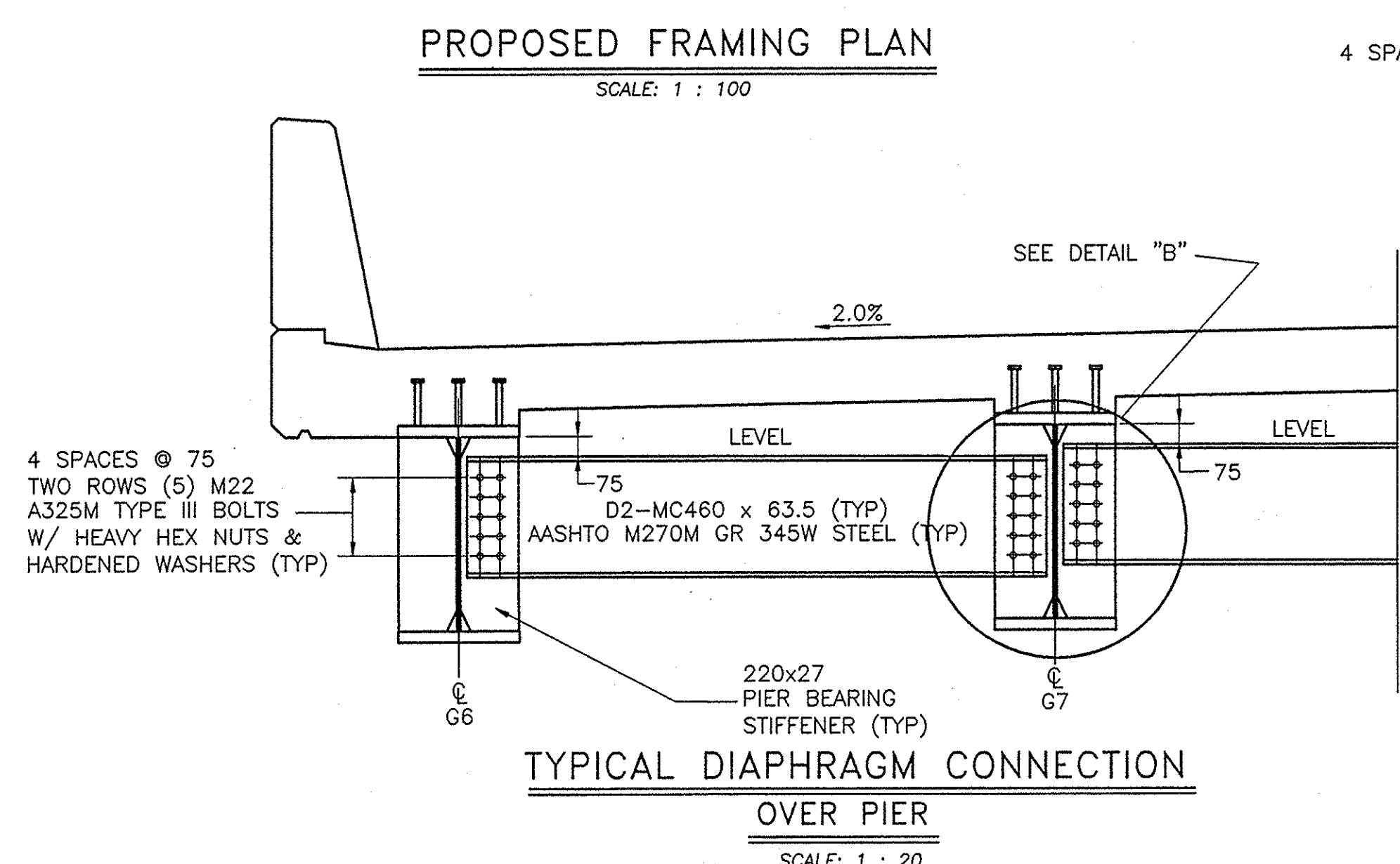
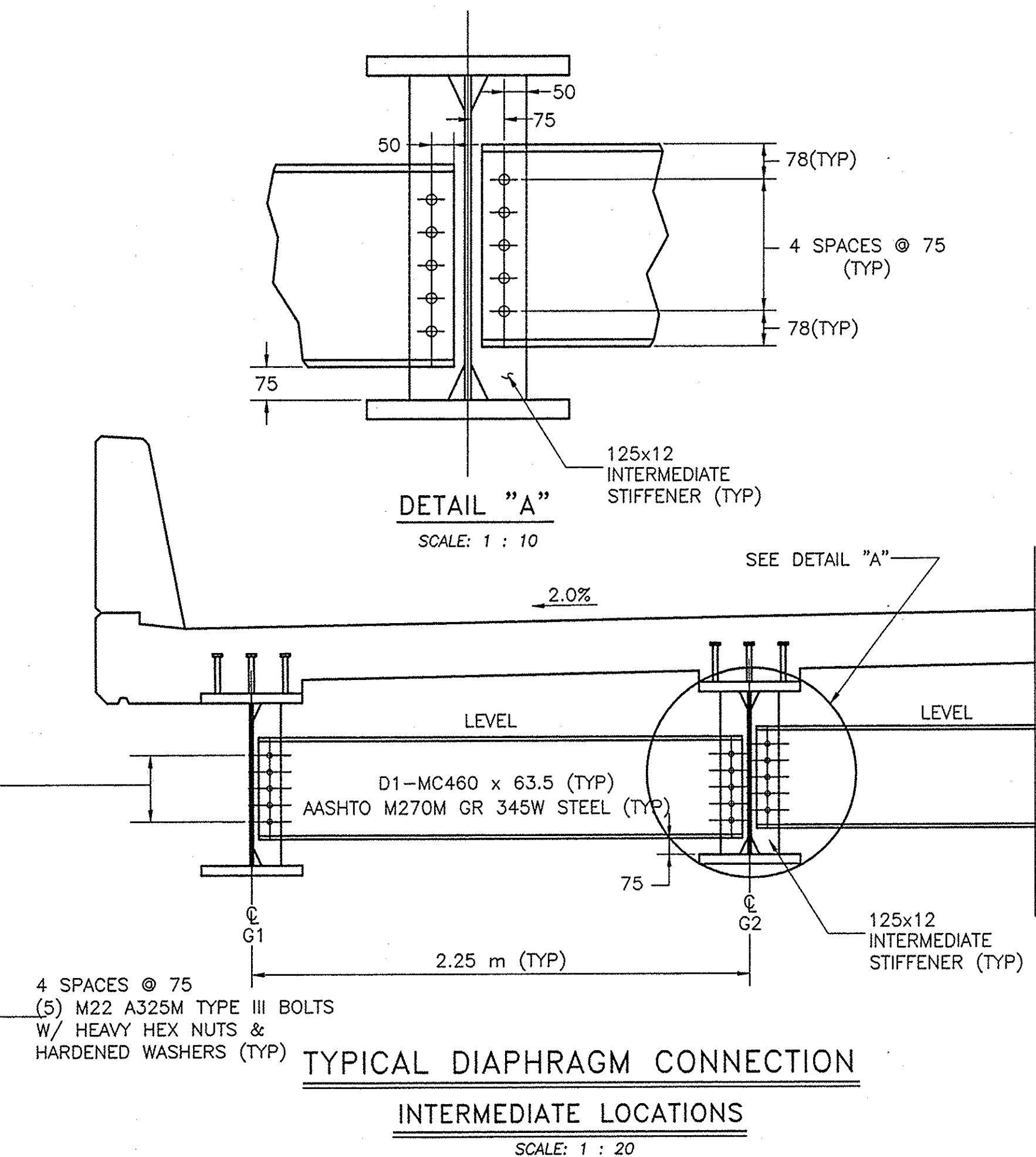
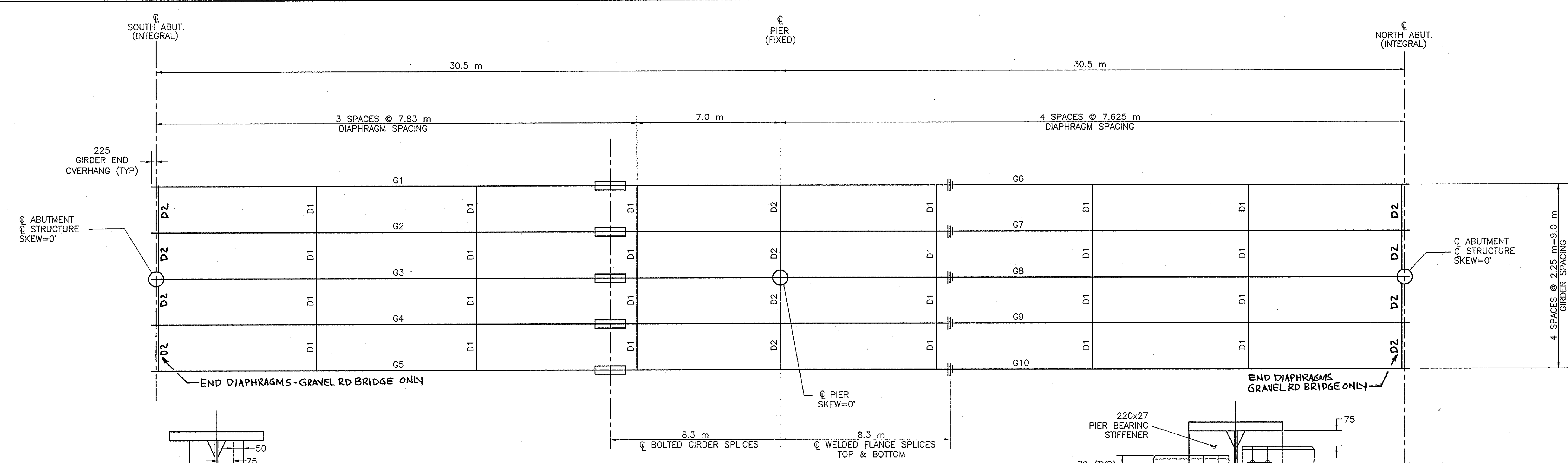
NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT SENECA COUNTY			
TITLE OF DRAWING GIRDER BOLTED SPLICE DETAILS AND CAMBER DIAGRAM			
CONTRACT NUMBER: TAS 98-8B		DATE: 4/98	
DRAWING NUMBER: C17			

ELSEBRIDGES (COMMON) FRAME
CHECKED BY: [Signature]
DESIGNED BY: [Signature]
IN CHARGE OF: [Signature]



NOTES FOR DIAPHRAGM DETAILS

- WHERE HOLES ARE INDICATED, CONNECTIONS SHALL BE MADE WITH M22 A325M TYPE III BOLTS, HEAVY HEX NUTS AND HARDENED WASHERS.
- DIAPHRAGMS MAY BE FABRICATED TO FIT THE GIRDERS IN THEIR ERECTED POSITION AND CAMBERED SHAPE, BUT DEFLECTED VERTICALLY DUE TO STEEL DEAD LOAD 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 INTERFERENCE WITH OTHER STRUCTURAL DETAILS.
- THE COST FOR SHIPPING AND ERECTION OF DIAPHRAGMS AND RELATED WORK SHALL BE PAID UNDER ITEM 25564.5198nnM - TRANSPORTATION AND ERECTION OF STRUCTURAL STEEL. THE CONTRACTOR SHALL NOTE THAT THE DIAPHRAGMS SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE NYS STEEL CONSTRUCTION MANUAL.

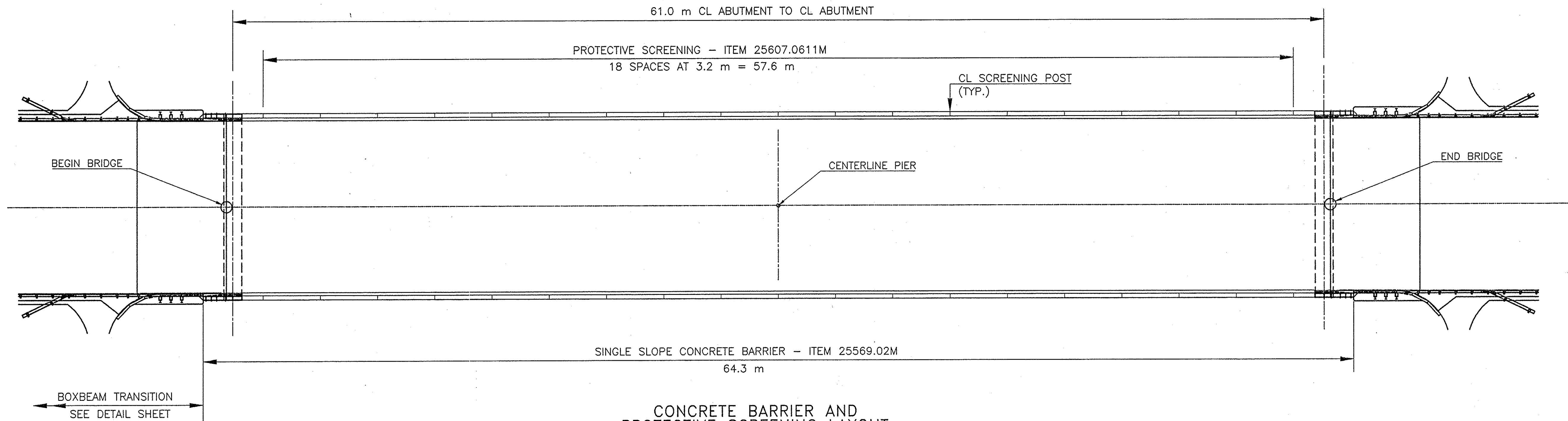
END DIAPHRAGMS ADDED
GRAVEL ROAD MP 317.46
~~NO AS BUILT REVISIONS~~

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

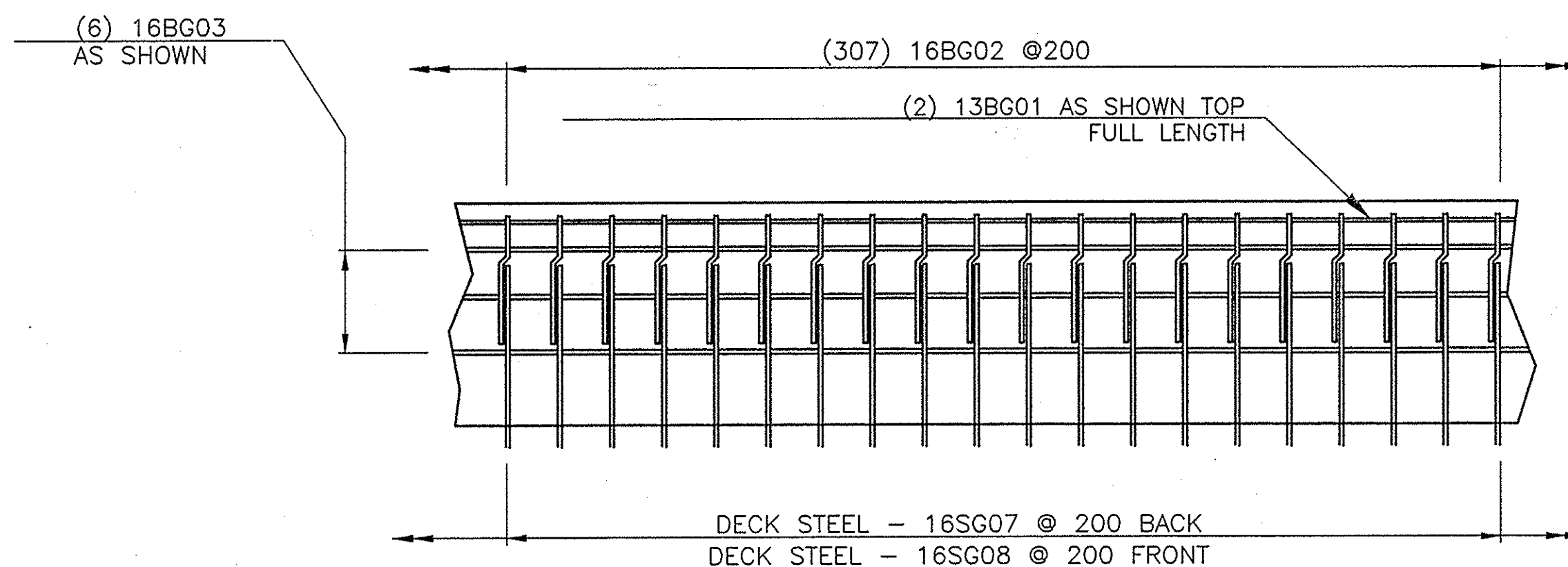
1/24/80 Kenneth W. Pappas			
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT SENECA COUNTY			
TITLE OF DRAWING PROPOSED FRAMING PLAN AND DIAPHRAGM DETAILS			
	CONTRACT NUMBER: TAS 98-8B		
	DATE: 3/98		
	DRAWING NUMBER: C18		

MOMENT AND SHEAR TABLE

			SPAN NO. 1										SPAN NO. 2										
			€ BRGS. © ABUT.#1	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	€ PIER 1	0.1L	0.2L	0.3L	0.4L	0.5L	0.6L	0.7L	0.8L	0.9L	€ BRGS. © ABUT.#2
GIRDER G1	DL	MOMENT	0.0	446	749	910	929	806	540	133	-417	-1109	-1943	-1109	-417	133	540	806	929	910	749	446	0.0
		SHEAR	169	123	76	30	-17	-64	-110	-157	-204	-250	-297/297	250	204	157	110	64	17	-30	-76	-123	-169
	SDL	MOMENT	0.0	135	230	284	298	271	203	95	-54	-244	-474	-244	-54	95	203	271	298	284	230	135	0.0
		SHEAR	51	38	24	11	-2	-15	-29	-42	-56	-69	-82/82	69	56	42	29	15	2	-11	-24	-38	-51
	LL (+)	MOMENT	0.0	742	1261	1566	1710	1691	1537	1227	792	259	0.0	259	792	1227	1537	1691	1710	1566	1261	742	0.0
		SHEAR	281	245	210	176	142	109	78	49	24	8	0.0/296	276	251	222	191	157	121	82	52	32	26
LL (-)	MOMENT	0.0	74	148	222	297	371	445	519	593	710	1296	710	593	519	445	371	297	222	148	74	0.0	
	SHEAR	26	32	52	82	121	157	191	222	251	276	296/0.0	8	24	49	78	109	142	176	210	245	281	
GIRDER G2	DL	MOMENT	0.0	500	841	1022	1044	906	607	149	-468	-1246	-2183	-1246	-468	149	607	906	1044	1022	841	500	0.0
		SHEAR	190	138	86	33	-19	-72	-124	-176	-229	-281	-333/333	-281	-229	-176	-124	-72	-19	33	86	138	190
	SDL	MOMENT	0.0	168	285	353	371	339	258	126	-55	-287	-568	-287	-55	126	258	339	371	353	285	168	0.0
		SHEAR	63	47	30	14	-2	-19	-35	-51	-68	-84	-100/100	-84	-68	-51	-35	-19	-2	14	30	47	63
	LL (+)	MOMENT	0.0	790	1343	1669	1825	1806	1644	1315	851	281	0.0	281	851	1315	1644	1806	1825	1669	1343	790	0.0
		SHEAR	332	261	224	187	152	117	83	52	25	9	0.0/349	293	266	236	202	166	128	87	55	34	27
LL (-)	MOMENT	0.0	77	154	231	308	386	463	540	617	731	1350	731	617	540	463	386	308	231	154	77	0.0	
	SHEAR	27	34	55	87	128	166	202	236	266	293	349/0.0	9	25	52	83	117	152	187	224	261	332	
GIRDER G3	DL	MOMENT	0.0	500	841	1022	1044	906	607	149	-468	-1246	-2183	-1246	-468	149	607	906	1044	1022	841	500	0.0
		SHEAR	190	138	86	33	-19	-72	-124	-176	-229	-281	-333/333	-281	-229	-176	-124	-72	-19	33	86	138	190
	SDL	MOMENT	0.0	168	285	353	371	339	258	126	-55	-287	-568	-287	-55	126	258	339	371	353	285	168	0.0
		SHEAR	63	47	30	14	-2	-19	-35	-51	-68	-84	-100/100	-84	-68	-51	-35	-19	-2	14	30	47	63
	LL (+)	MOMENT	0.0	790	1343	1669	1825	1806	1644	1315	851	281	0.0	281	851	1315	1644	1806	1825	1669	1343	790	0.0
		SHEAR	332	261	224	187	152	117	83	52	25	9	0.0/349	293	266	236	202	166	128	87	55	34	27
LL (-)	MOMENT	0.0	77	154	231	308	386	463	540	617	731	1350	731	617	540	463	386	308	231	154	77	0.0	
	SHEAR	27	34	55	87	128	166	202	236	266	293	349/0.0	9	25	52	83	117	152	187	224	261	332	
GIRDER G4	DL	MOMENT	0.0	500	841	1022	1044	906	607	149	-468	-1246	-2183	-1246	-468	149	607	906	1044	1022	841	500	0.0
		SHEAR	190	138	86	33	-19	-72	-124	-176	-229	-281	-333/333	-281	-229	-176	-124	-72	-19	33	86	138	190
	SDL	MOMENT	0.0	168	285	353	371	339	258	126	-55	-287	-568	-287	-55	126	258	339	371	353	285	168	0.0
		SHEAR	63	47	30	14	-2	-19	-35	-51	-68	-84	-100/100	-84	-68	-51	-35	-19	-2	14	30	47	63
	LL (+)	MOMENT	0.0	790	1343	1669	1825	1806	1644	1315	851	281	0.0	281	851	1315	1644	1806	1825	1669	1343	790	0.0
		SHEAR	332	261	224	187	152	117	83	52	25	9	0.0/349	293	266	236	202	166	128	87	55	34	27
LL (-)	MOMENT	0.0	77	154	231	308	386	463	540	617	731	1350	731	617	540	463	386	308	231	154	77	0.0	
	SHEAR	27	34	55	87	128	166	202	236	266	293	349/0.0	9	25	52	83	117	152	187	224	261	332	
GIRDER G5	DL	MOMENT	0.0	446	749	910	929	806	540	133	-417	-1109	-1943	-1109	-417	133	540	806	929	910	749	446	0.0
		SHEAR	169	123	76	30	-17	-64	-110	-157	-204	-250	-297/297	250	204	157	110	64	17	-30	-76	-123	-169
	SDL	MOMENT	0.0	135	230	284	298	271	203	95	-54	-244	-474	-244	-54	95	203	271	298	284	230	135	0.0
		SHEAR	51	38	24	11	-2	-15	-29	-42	-56	-69	-82/82	69	56	42	29	15	2	-11	-24	-38	-51
	LL (+)	MOMENT	0.0	742	1261	1566	1710	1691	1537	1227	792	259	0.0	259	792	1227	1537	1691	1710	1566	1261	742	0.0
		SHEAR	281	245	210	176	142	109	78	49	24	8	0.0/296	276	251	222	191	157	121	82	52	32	26
LL (-)	MOMENT	0.0	74	148	222	297	371	445	519	593	710	1296	710	593	519	445	371	297	222	148	74	0.0	
	SHEAR	26	32	52	82	121	157	191	222	251	276	296/0.0	8	24	49	78	109	142	176	210	245	281	



CONCRETE BARRIER AND
PROTECTIVE SCREENING LAYOUT
SCALE: 1 : 125



BARRIER ELEVATION
REINFORCING DETAILS
SCALE: 1 : 20

MARK	SIZE	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H ₁	H ₂	J	K ₁	K ₂	L	O	R	REMARKS
WEST FASCIA BARRIER																					
13BG01	13	14	9.83 m	STR	137																HORIZONTAL TOP OF BARRIER
13BG02	13	307	1.16 m	16	354	450	130	580					575				110			240	VERTICAL
16BG03	16	36	9.97 m	STR	557																HORIZONTAL FRONT AND BACK
16BG04	16	24	900	17	34	380	140	380													VERTICAL AT BARRIER TRANSITION
16BG05	16	6	9.97 m	5	93	8.07 m	200	1.7 m					80				195				HORIZONTAL FRONT FACE AT TRANSITION
subtotal = 1175 kg																					
EAST FASCIA BARRIER																					
13BG01	13	14	9.83 m	STR	137																HORIZONTAL TOP OF BARRIER
13BG02	13	307	1.16 m	16	354	450	130	580					575				110			240	VERTICAL
16BG03	16	36	9.97 m	STR	557																HORIZONTAL FRONT AND BACK
16BG04	16	24	900	17	34	380	140	380													VERTICAL AT BARRIER TRANSITION
16BG05	16	6	9.97 m	5	93	8.07 m	200	1.7 m					80				195				HORIZONTAL FRONT FACE AT TRANSITION
subtotal = 1175 kg																					
Total = 2350 kg (cost included in price bid for Barrier Item)																					

- NOTES
- SEE DRAWING C24 FOR FENCING DETAILS.
 - SEE DRAWING C21-C23 FOR BARRIER TRANSITION DETAILS.
 - WINGWALLS NOT SHOWN.
 - THESE DETAILS ARE COMMON TO ALL FIVE BRIDGES IN THE CONTRACT.

REBAR COVER REVISIONS

DATE	DESCRIPTION	BY	SYM.
12/10/98	Revised rebar cover		


REVISIONS

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

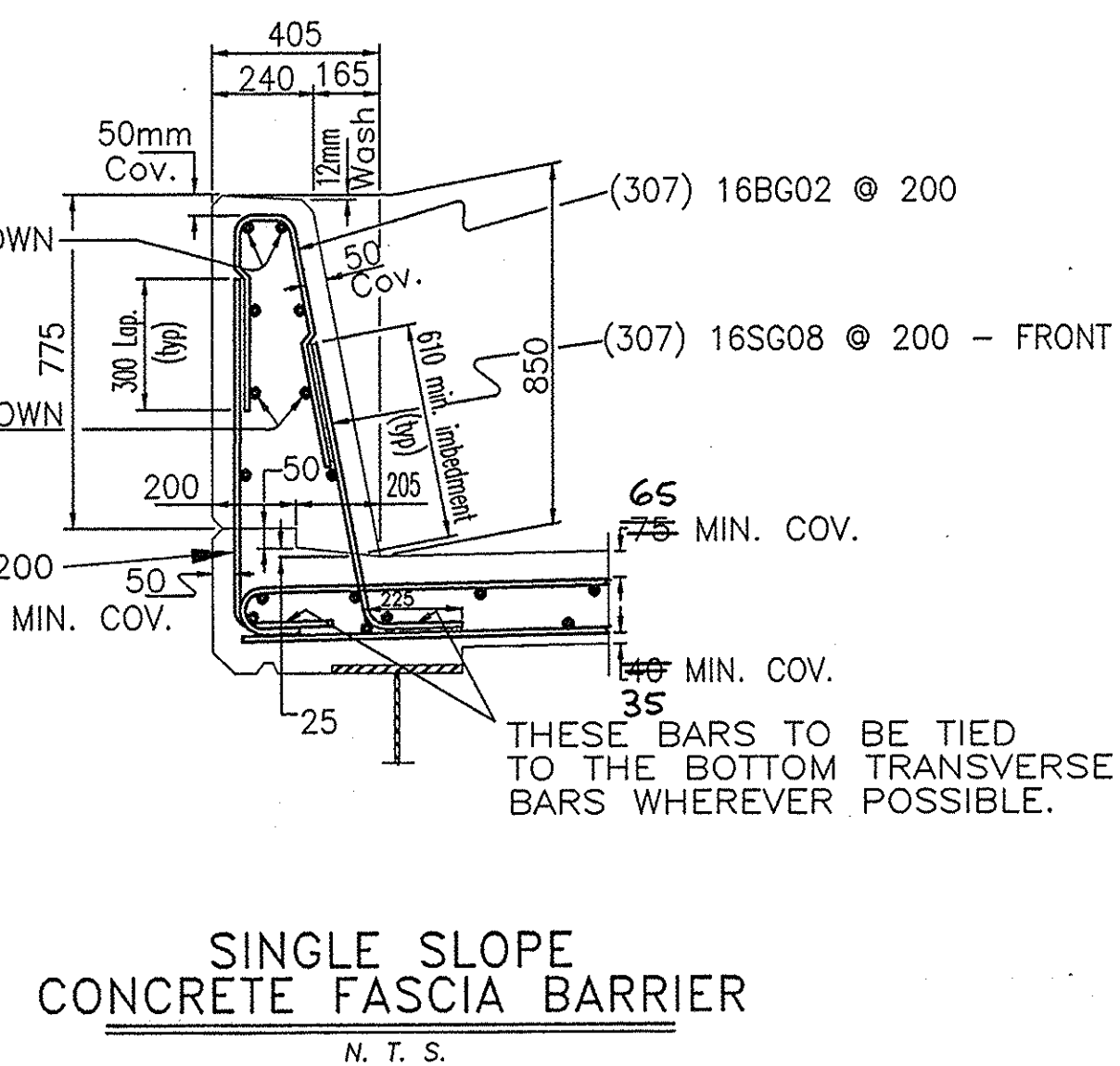
TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA COUNTY

TITLE OF DRAWING
CONCRETE BARRIER AND
PROTECTIVE SCREENING LAYOUT

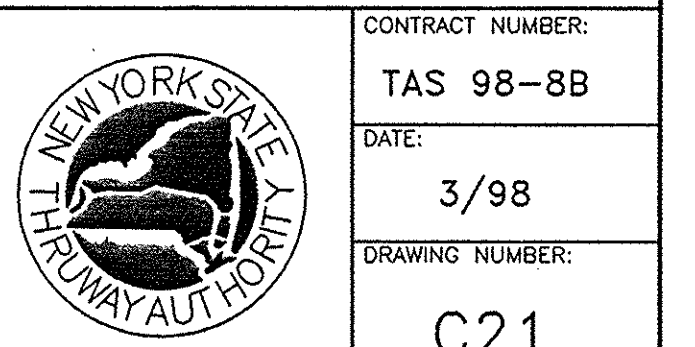


CONTRACT NUMBER:
TAS 98-8B
DATE:
3/98
DRAWING NUMBER:
C20

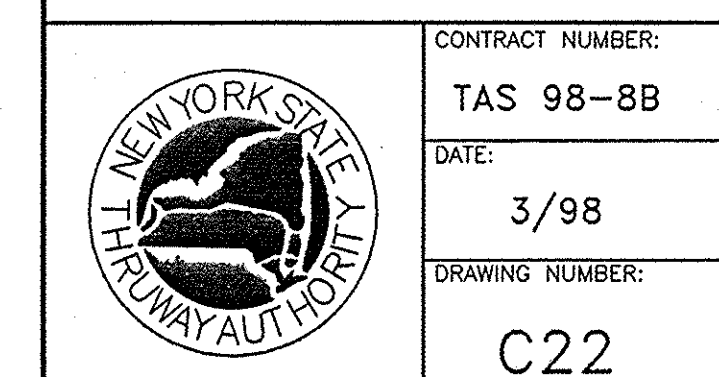


SINGLE SLOPE
CONCRETE FASCIA BARRIER
N. T. S.

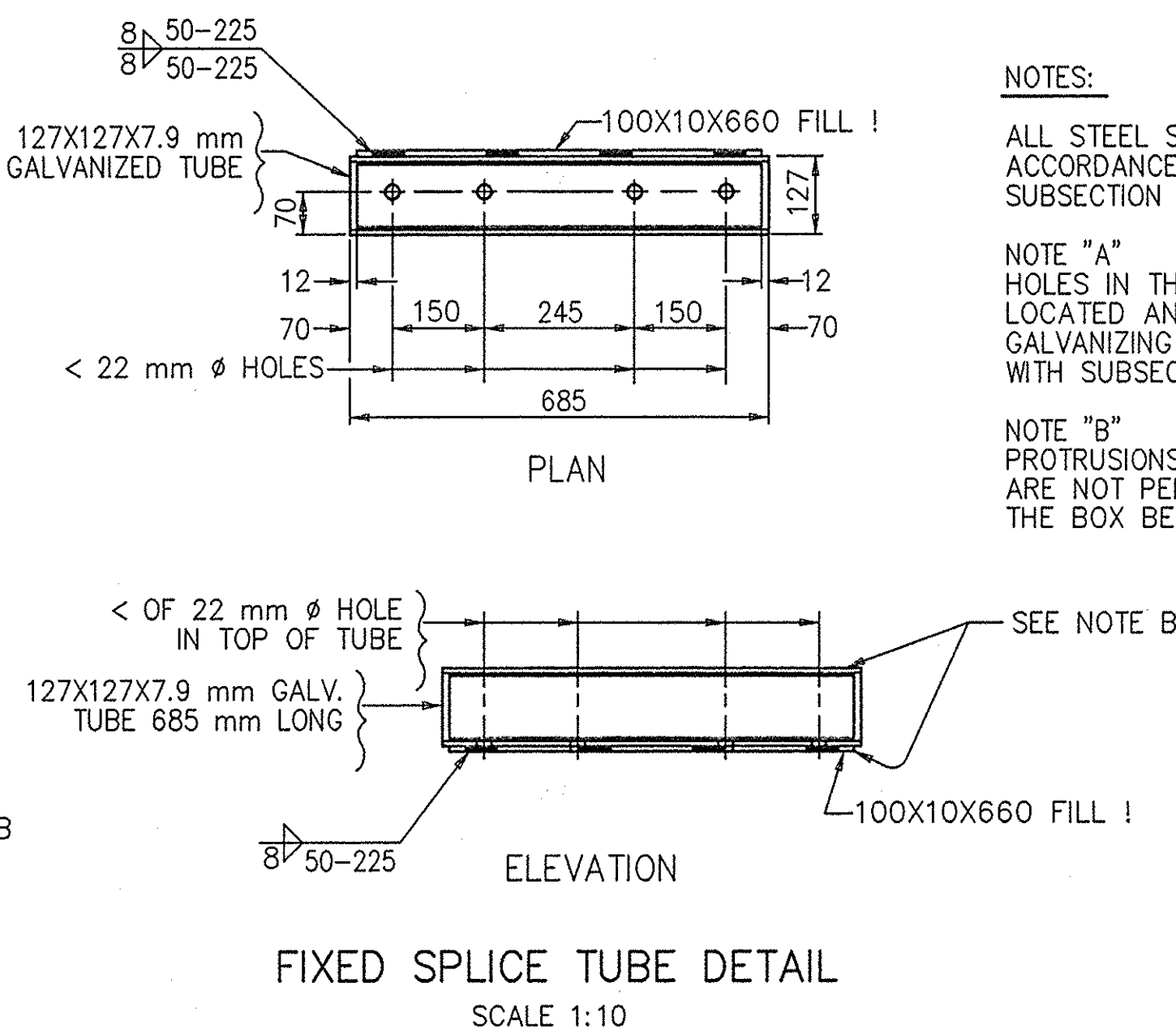
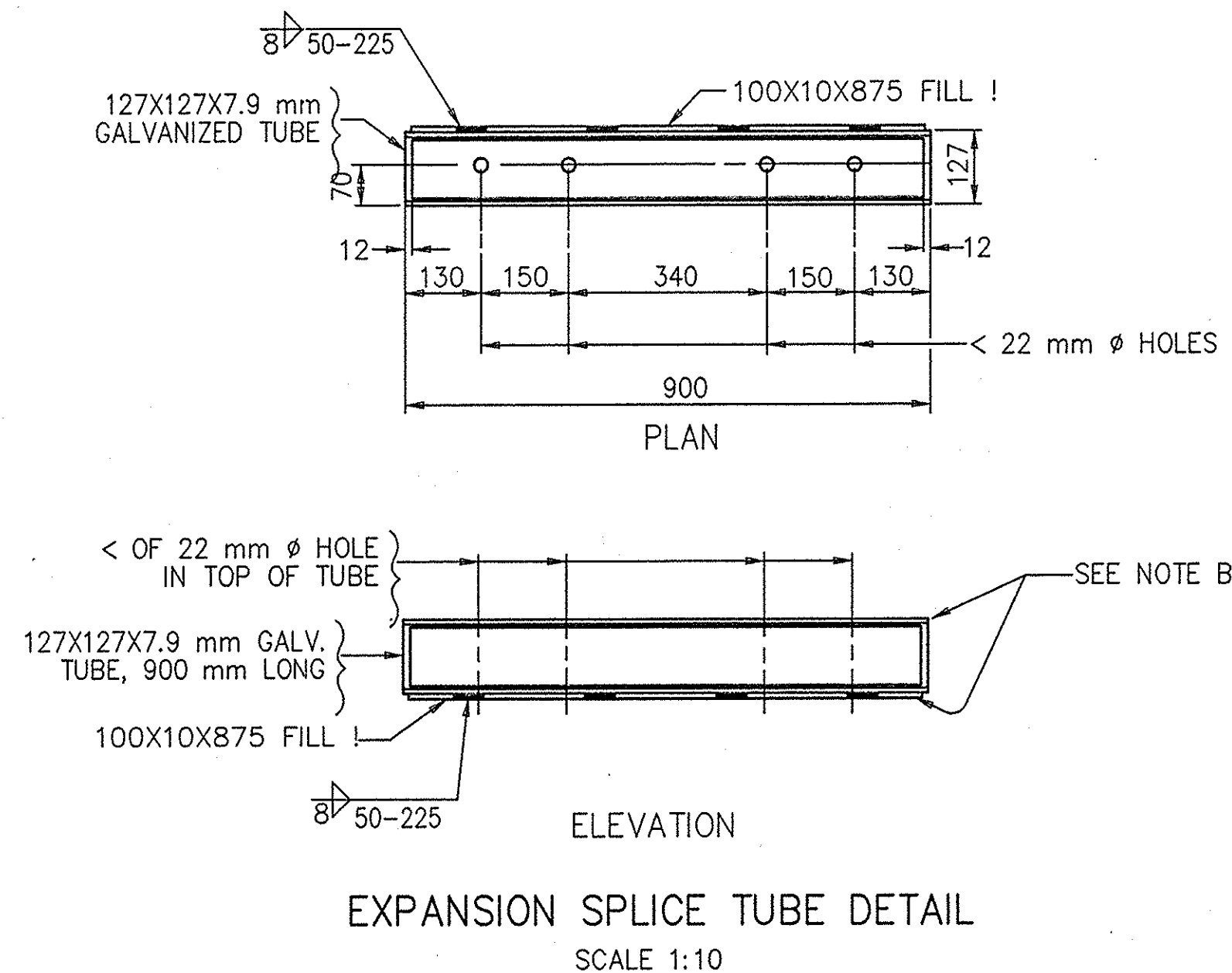
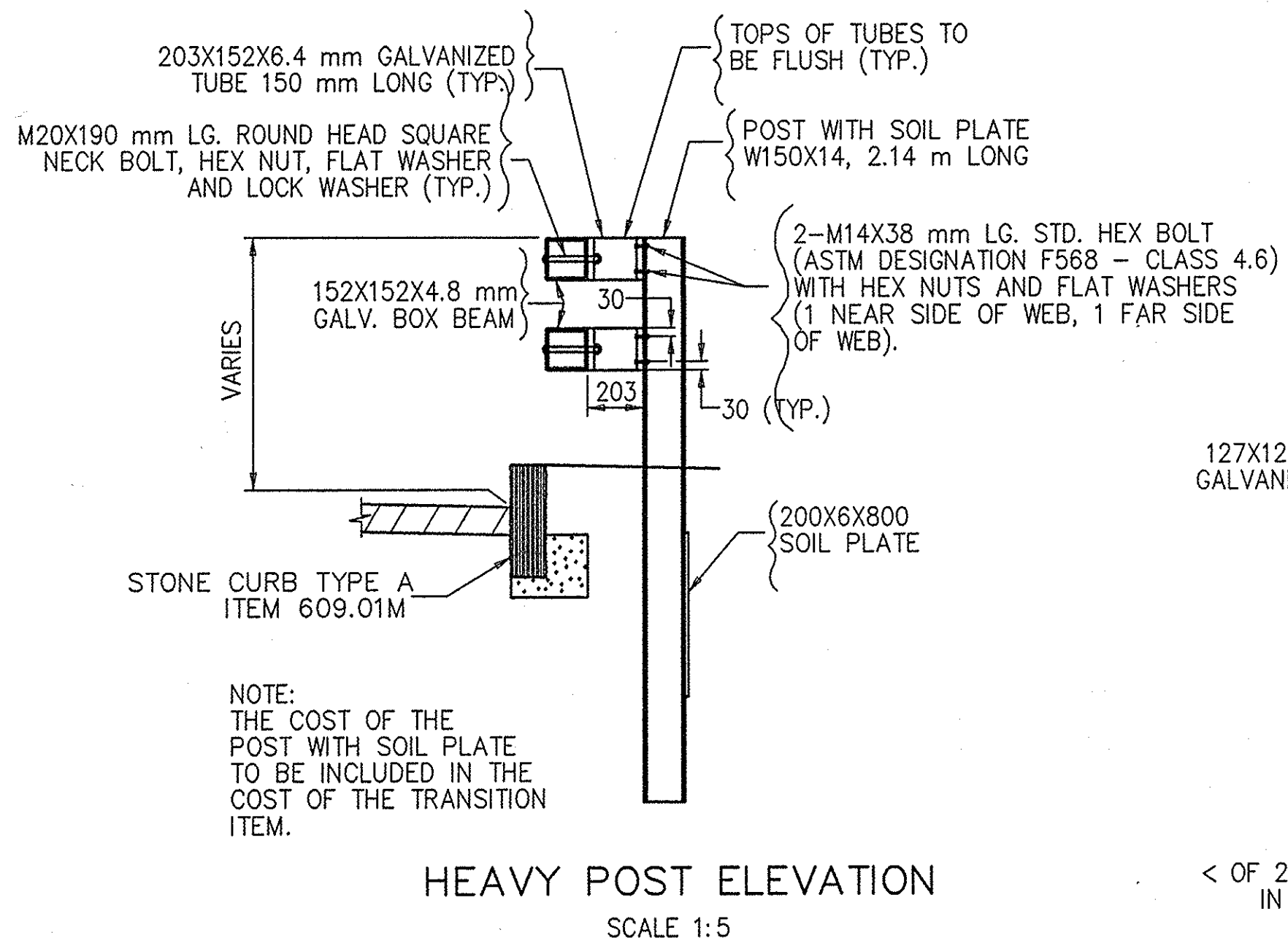
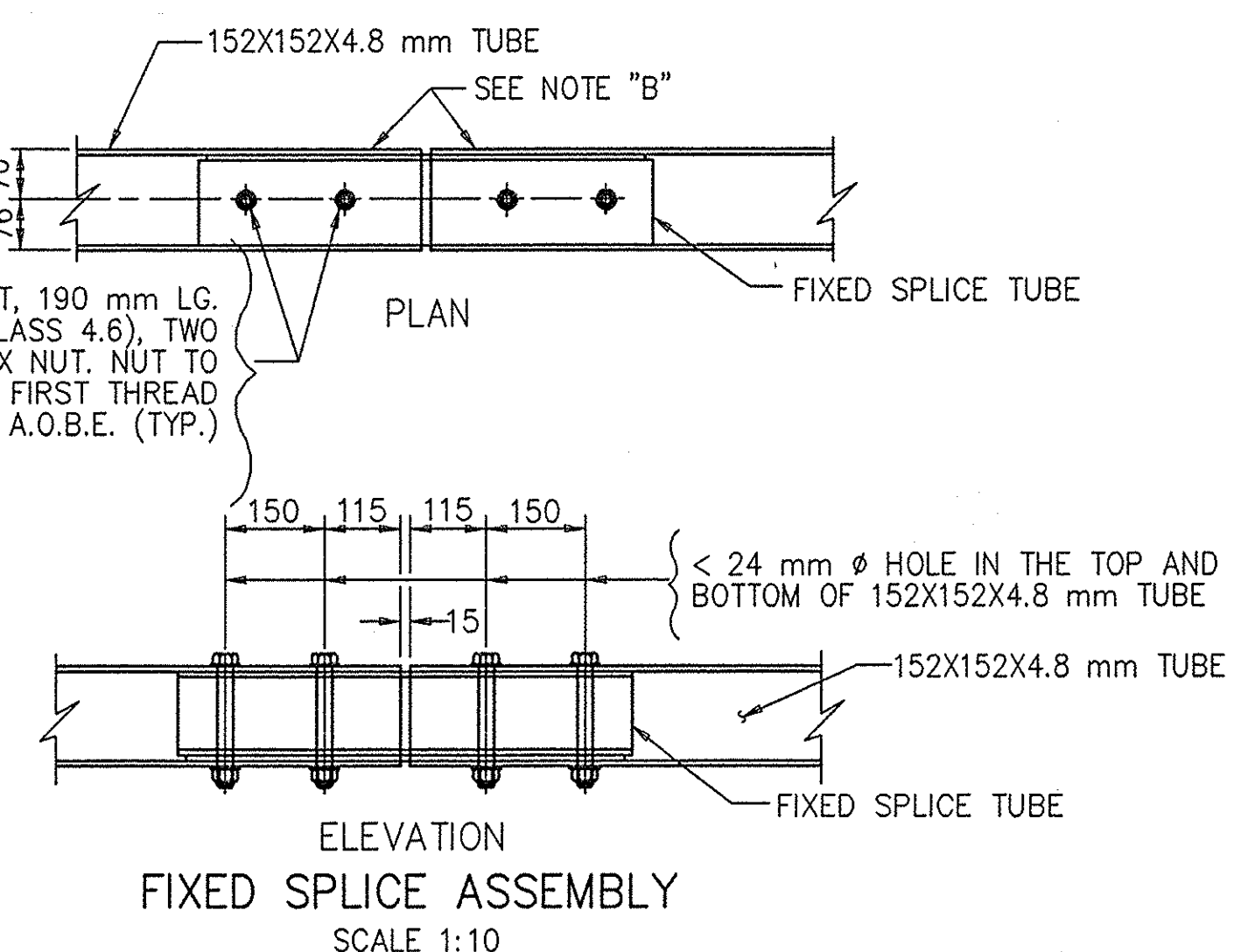
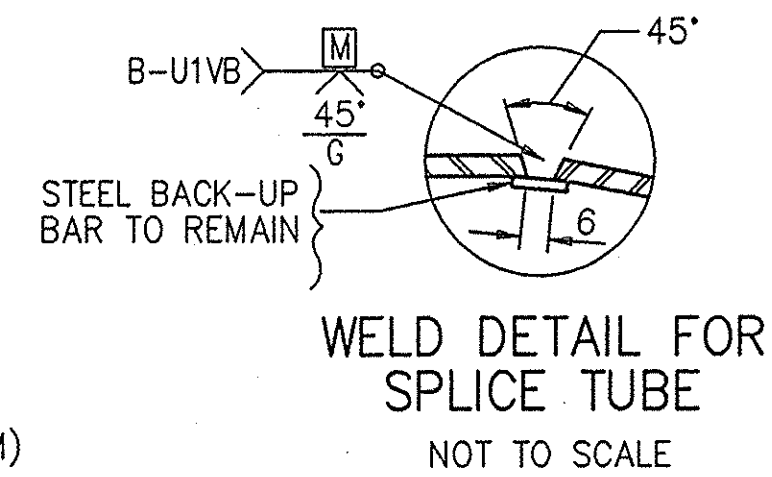
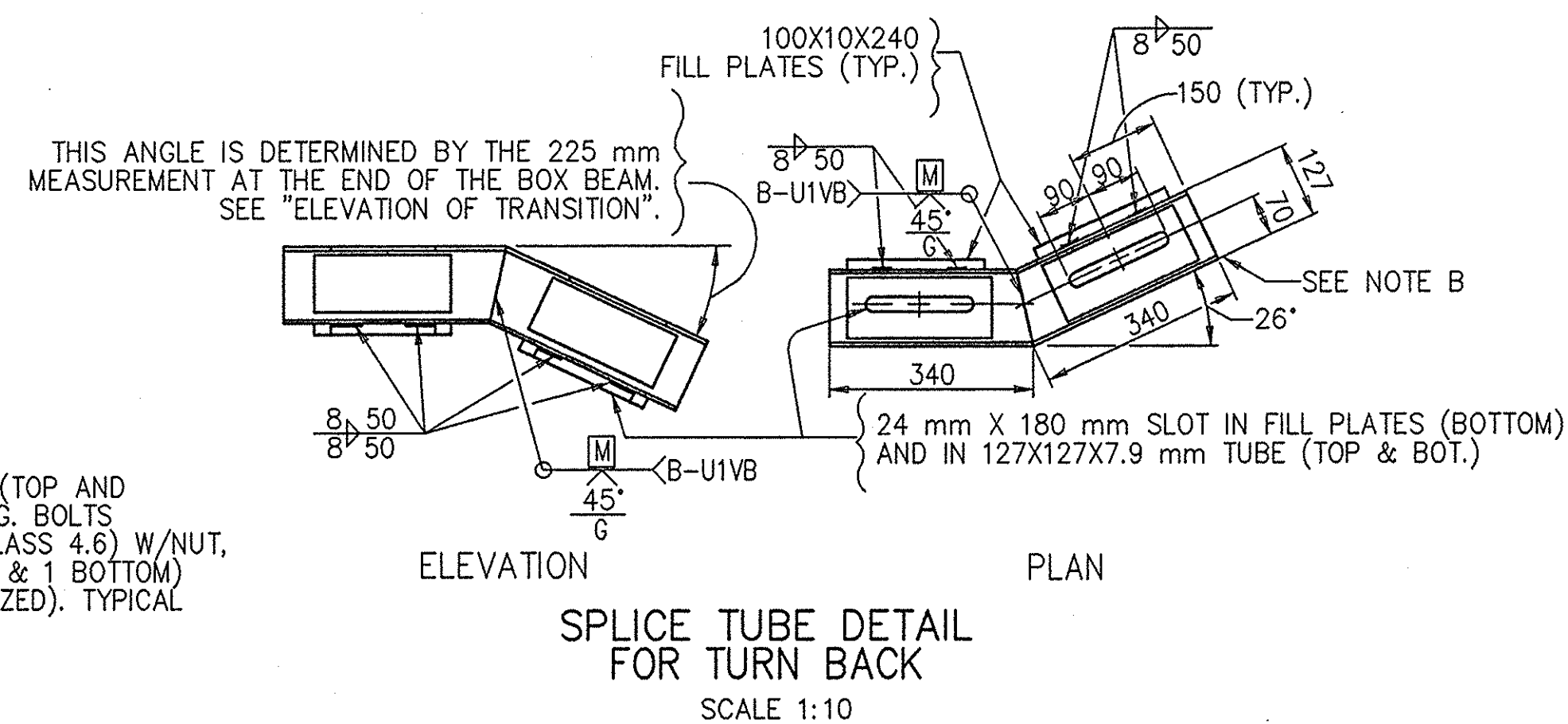
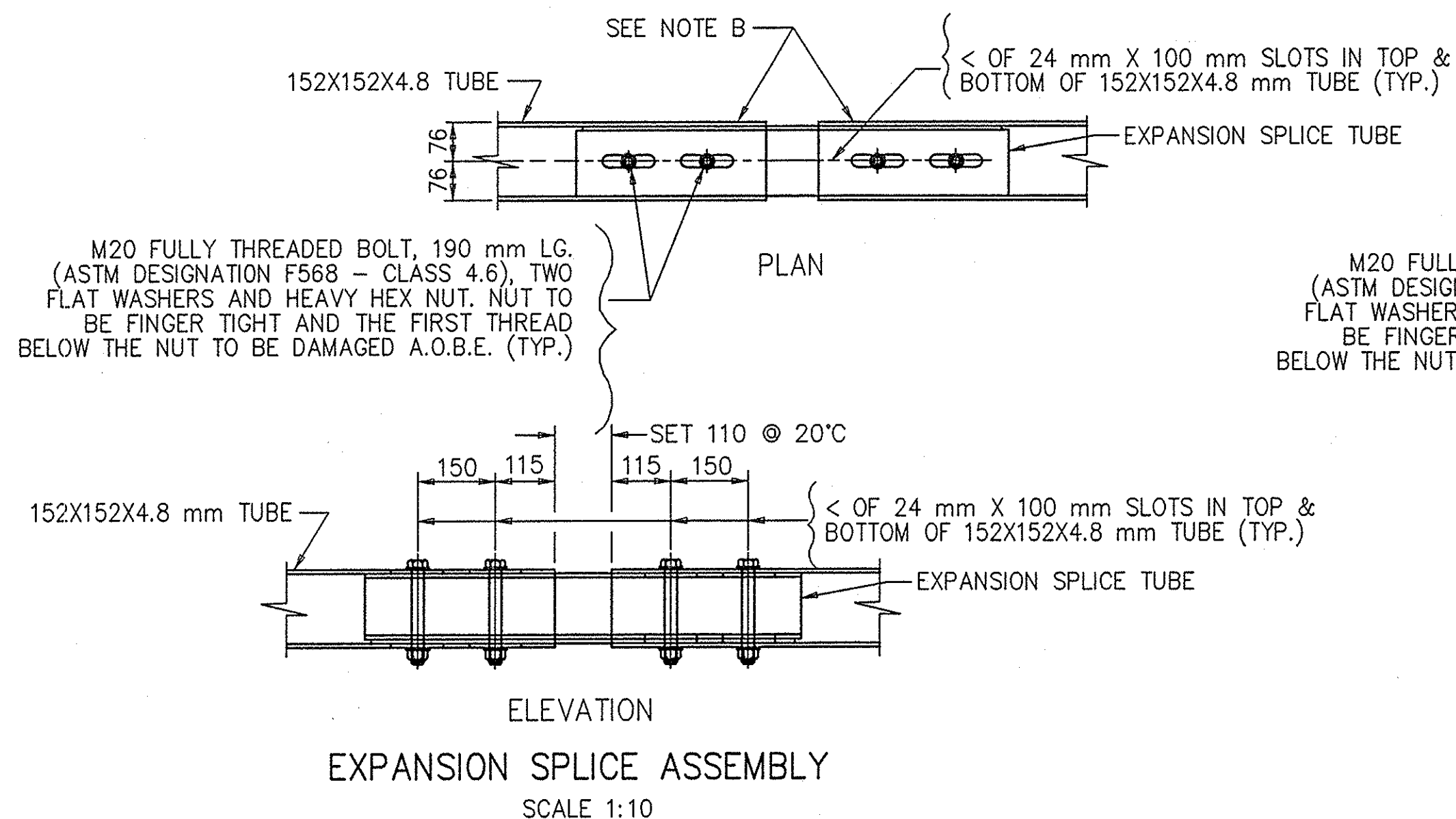
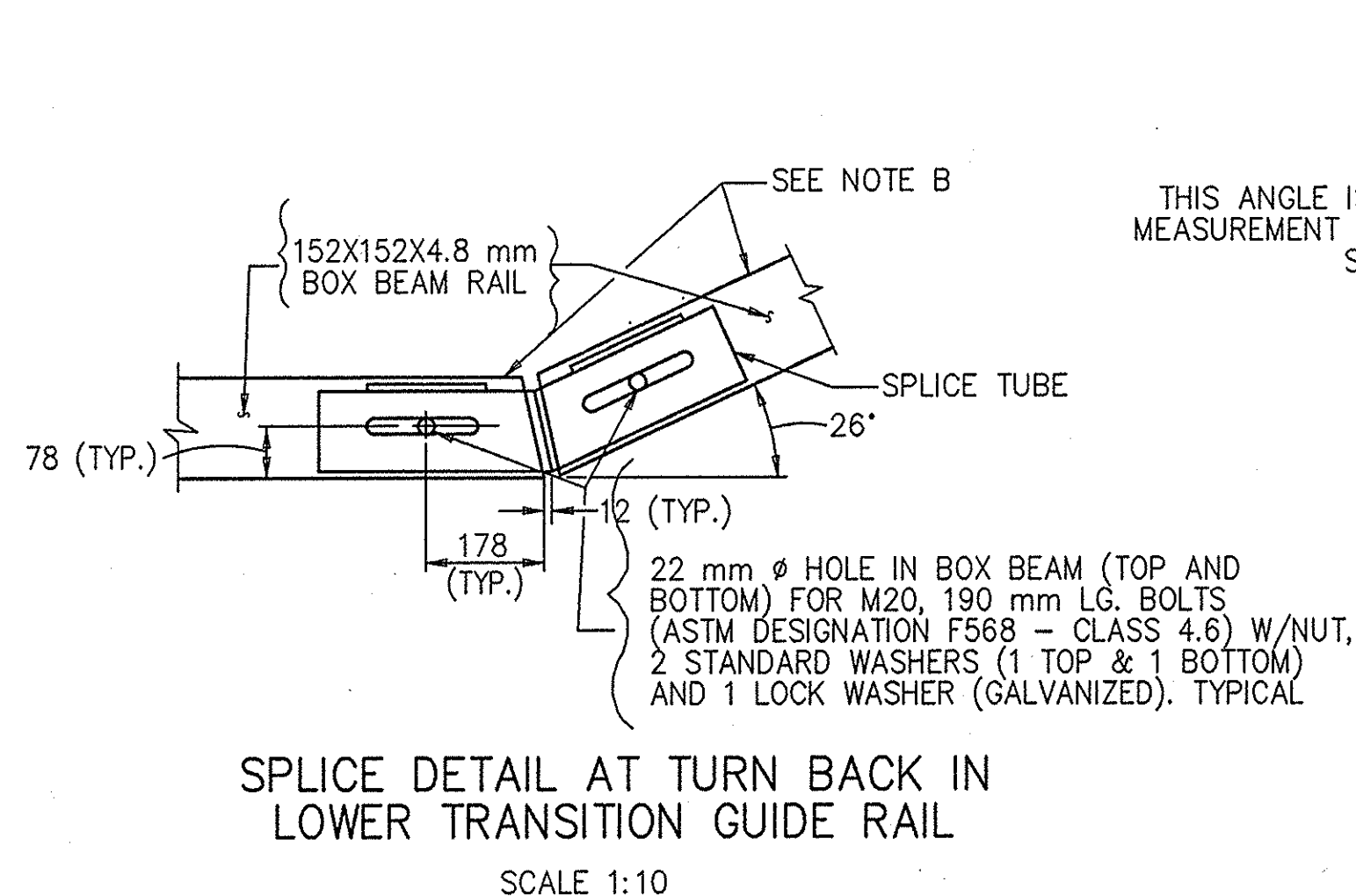
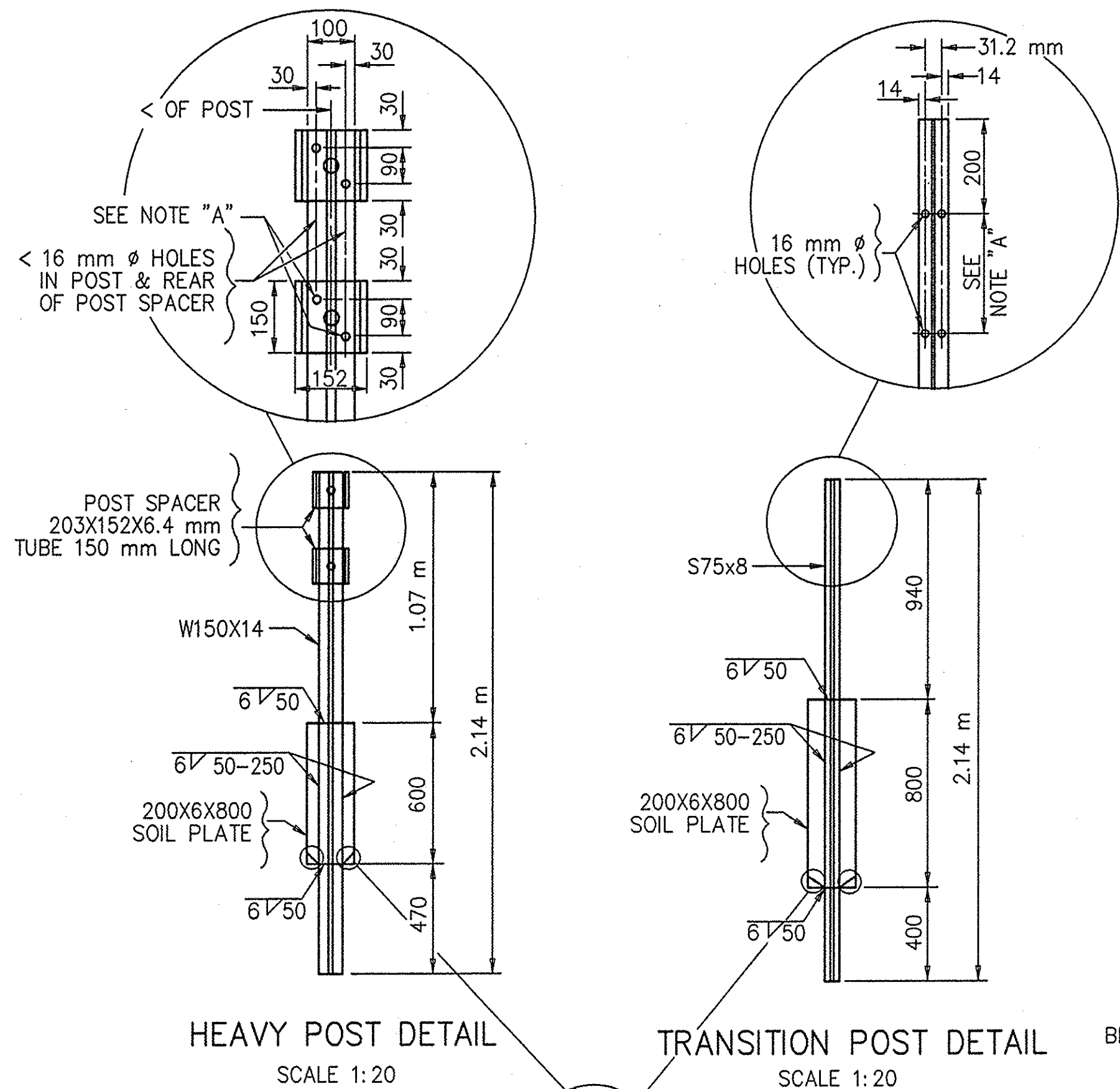
CHECKED BY: [Signature]
DESIGNED BY: [Signature]
IN CHARGE OF: [Signature]



NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE
SHOWN IN METERS.



NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE
SHOWN IN METERS.



NOTES:

ALL STEEL SHALL BE GALVANIZED AFTER WELDING IN ACCORDANCE WITH THE N.Y.S. STANDARD SPECIFICATION SUBSECTION 719-01.

NOTE "A"
HOLES IN THE POST FOR THE LOWER RAIL MAY BE LOCATED AND DRILLED IN THE FIELD. IF SO, THE GALVANIZING SHALL BE REPAIRED IN ACCORDANCE WITH SUBSECTION 719-01.

NOTE "B"
PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPICE TUBES AND FILL PLATES.

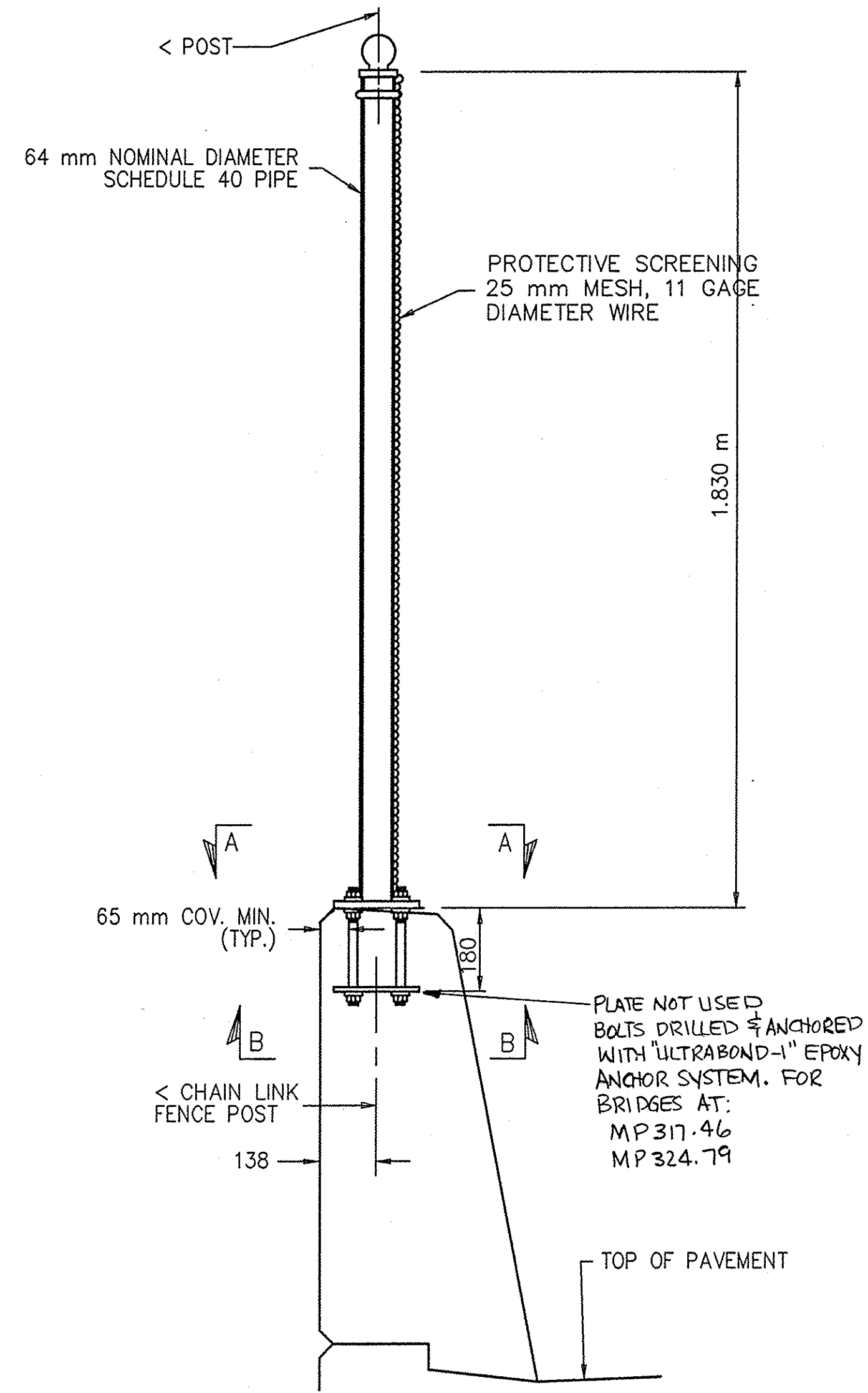
NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

NOAS-BUILT REVISIONS

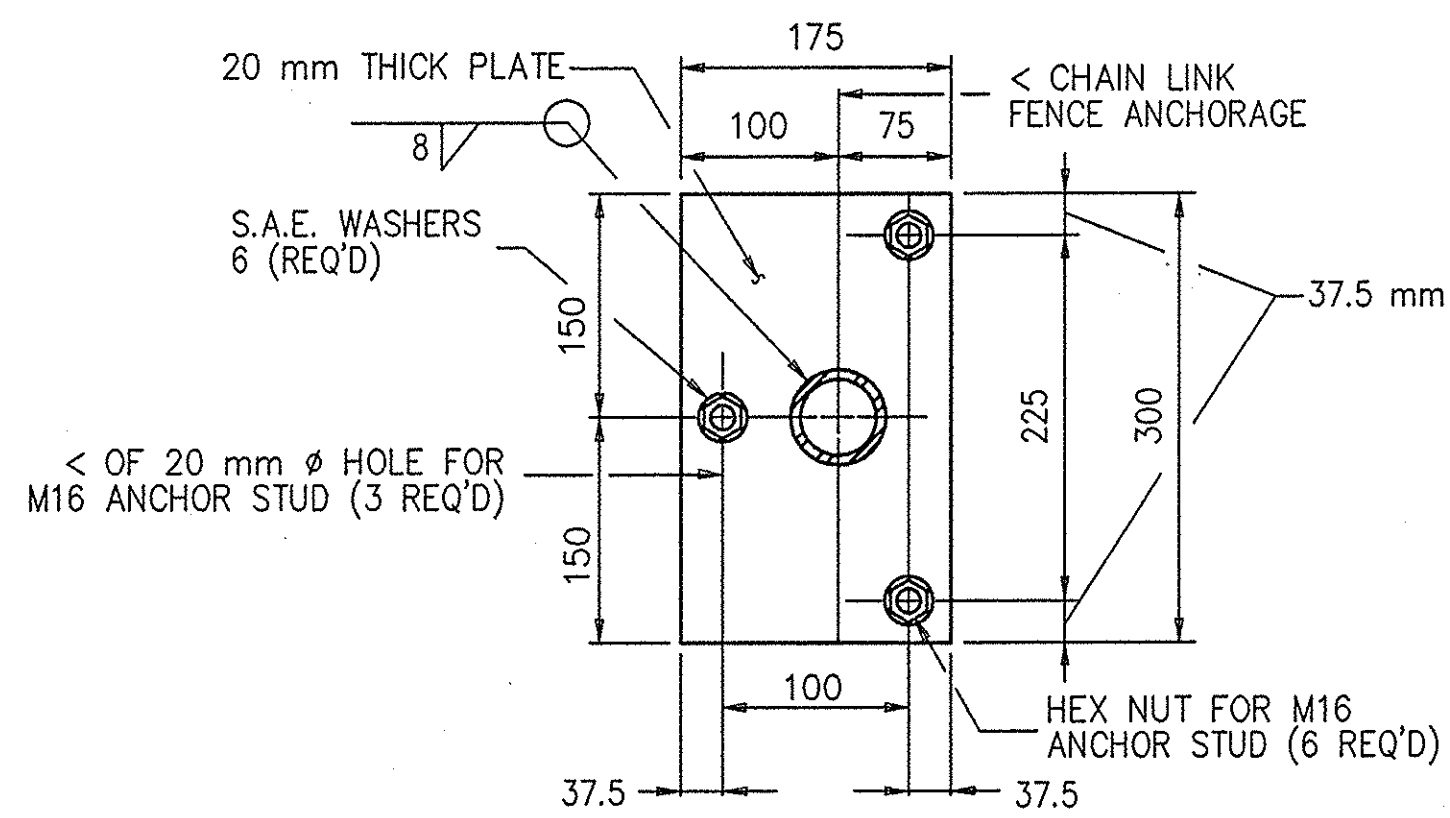
DATE	DESCRIPTION	BY	SYM.
1/24/00	Kup		

REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT SENECA COUNTY			
TITLE OF DRAWING COMMON DETAILS FOR BOX BEAM GUIDE RAIL TRANSITION TO CONCRETE BARRIER			

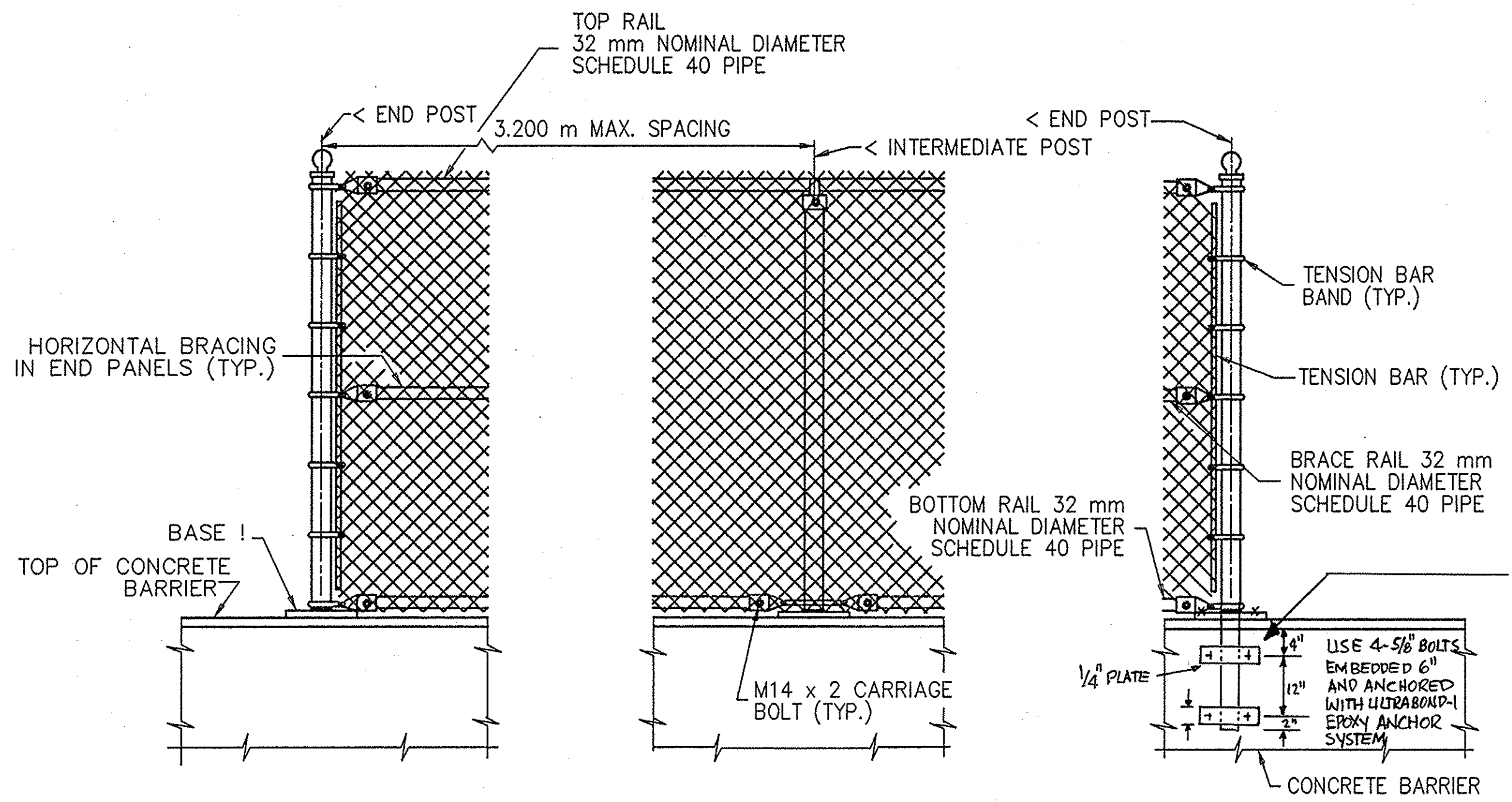
	CONTRACT NUMBER:
	TAS 98-8B
	DATE:
	3/98
	DRAWING NUMBER:
	C23



SECTION A-A
SCALE: 1:10



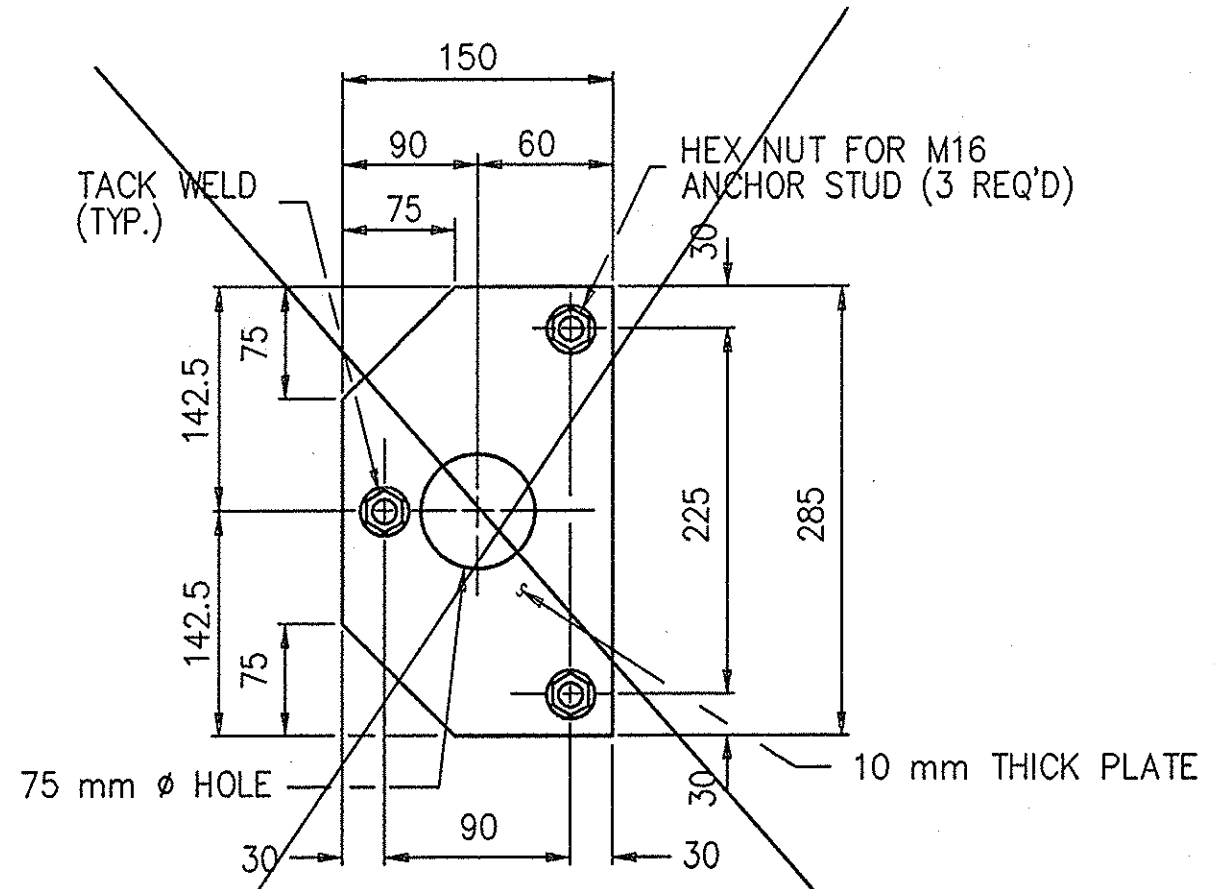
SECTION A-A
SCALE: 1:5
(BARRIER NOT SHOWN)



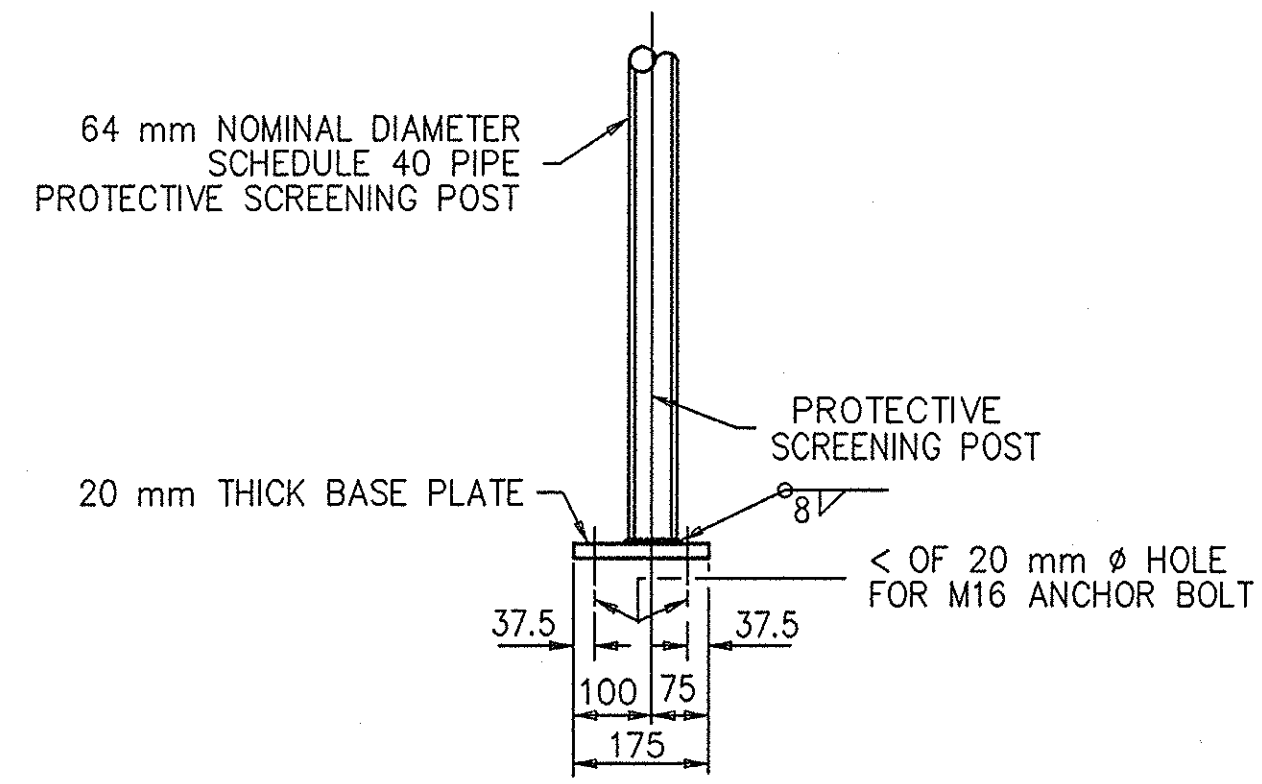
TYPICAL ELEVATION - CHAIN LINK PROTECTIVE SCREENING

SCALE: 1:20

NOTES:
ON NEW BARRIERS THAT ARE MADE BY THE CONVENTIONAL CAST-IN-PLACE METHOD,
THE ANCHORAGES SHALL BE CAST INTO THE BARRIER.
ALL DIMENSIONS SHOWN ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
FOR POST SPACING, SEE DRAWING C20.



SECTION B-B
SCALE: 1:5
(BARRIER NOT SHOWN)



PROTECTIVE SCREENING
POST DETAIL FOR BRIDGES AT:
(SAFETY SHAPE BARRIER) MP 317.46
MP 324.79
SCALE: 1:10

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE
SHOWN IN METERS.

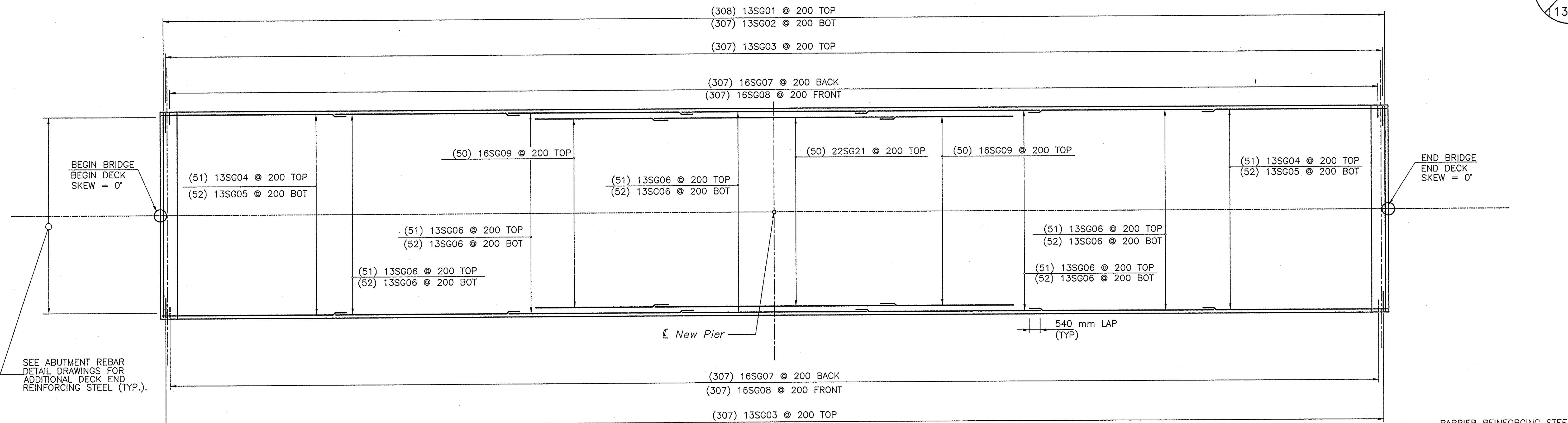
POST MOUNTING DETAILS REVISED

DATE	DESCRIPTION	BY	SYM.

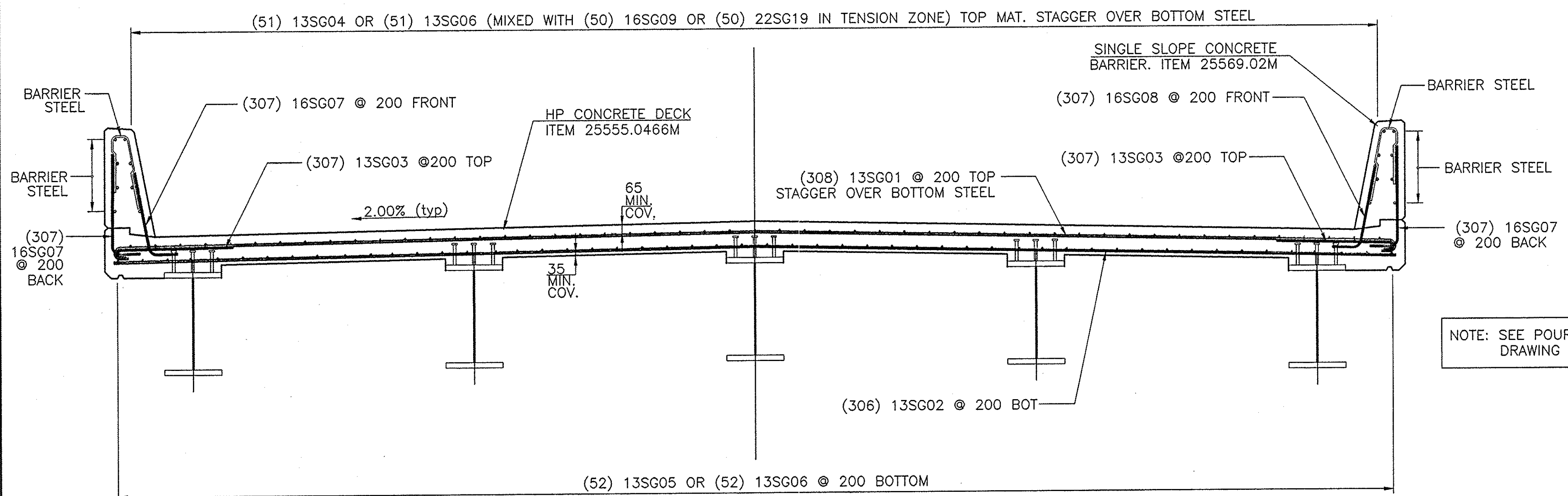
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NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT SENECA COUNTY			
TITLE OF DRAWING PROTECTIVE SCREENING DETAILS			

	CONTRACT NUMBER:
	TAS 98-8B
	DATE:
	3/98
DRAWING NUMBER:	
C24	

CHECKED BY: *[Signature]*
 DESIGNED BY: *[Signature]*
 IN CHARGE OF: *[Signature]*



DECK REINFORCING PLAN
Scale: 1 : 100



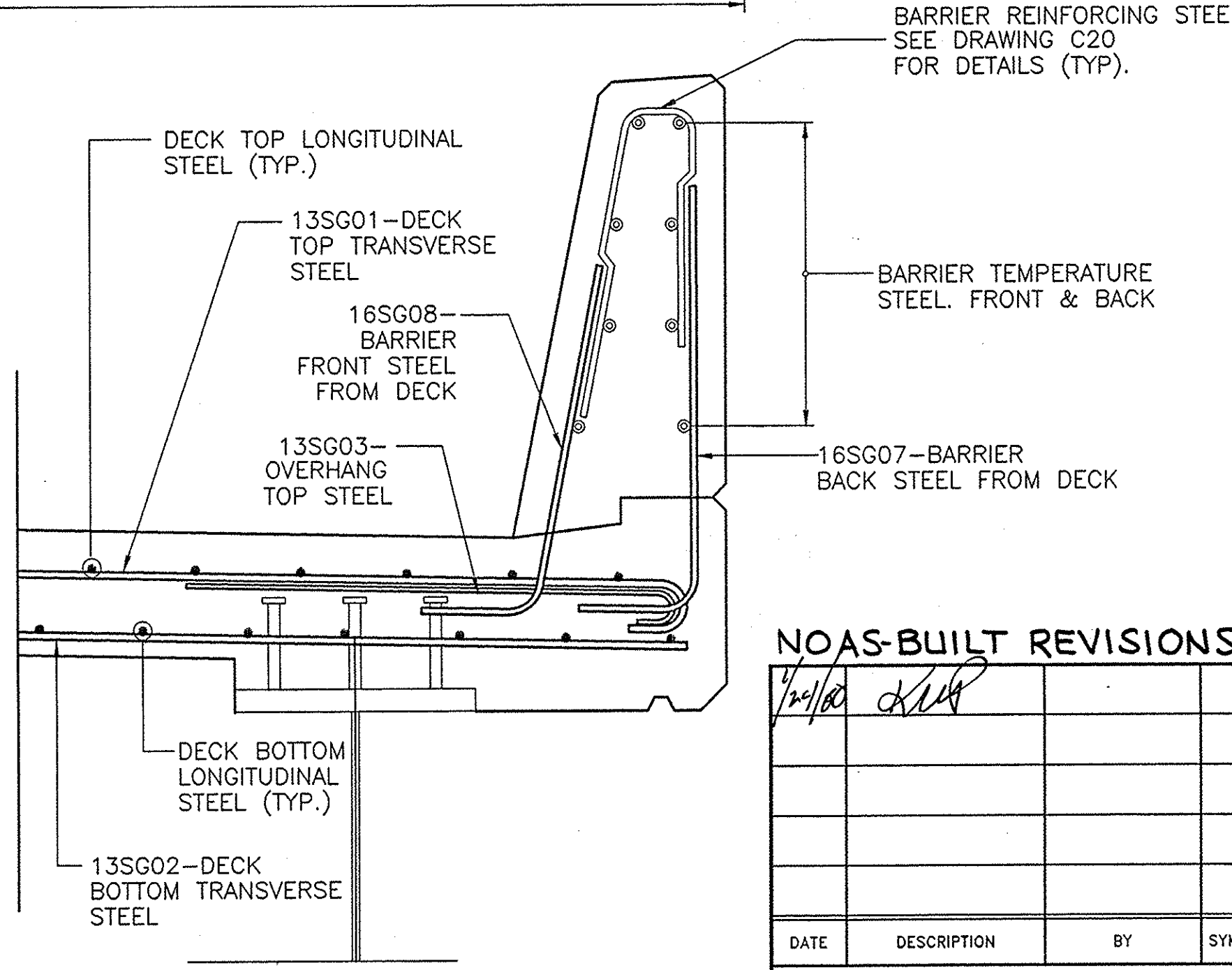
DECK REINFORCING SECTION
Scale: 1 : 25

CONTINUOUS DECK SLAB PLACEMENT NOTES

1. THE CONCRETE DECK SLAB FOR THIS STRUCTURE SHALL BE PLACED ACCORDING TO THE PLACEMENT SEQUENCE SHOWN. NO ALTERNATIVE PROCEDURE WILL BE CONSIDERED.
2. CONCRETE PLACEMENT AND FINISHING OPERATIONS SHALL BE PERFORMED AS RAPIDLY AS POSSIBLE. THE ENGINEER MAY ORDER THE CONTRACTOR TO STOP PLACEMENT OPERATIONS AT ANY TIME IF, IN THE ENGINEER'S OPINION, CONCRETE PLACED HAS STARTED TO SET, OR IS ABOUT TO SET, AND FURTHER PLACEMENT OF CONCRETE WILL CAUSE DEFLECTION CRACKING.
3. IN THE EVENT THE CONTRACTOR'S DECK PLACEMENT OPERATION IS STOPPED PRIOR TO COMPLETION, WHETHER BY HIS OWN DECISION OR BY ORDER OF THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FINISHED DECK GRADE WHICH MATCHES THE PLANNED PROFILE. ANY SUBSEQUENT REVISIONS TO DECK FORMS MADE NECESSARY BY SUCH ACTION SHALL BE AT THE CONTRACTOR'S EXPENSE.

4. CONSTRUCTION JOINTS SHOULD BE PLACED PARALLEL TO THE SKEW ANGLE. DECK CONCRETE SHALL BE PLACED SO THAT THE LEADING EDGE PARALLELS THE SKEW. FINISHING MACHINE(S) SHALL BE OPERATED AS CLOSE TO THE SKEW ANGLE AS PRACTICABLE FOR SKEW ANGLES BETWEEN 0 DEGREES AND 35 DEGREES MAXIMUM. WHEN THE SKEW ANGLE IS GREATER THAN 35 DEGREES THE FINISHING MACHINE(S) SHALL BE OPERATED AT A MAXIMUM OF 35 DEGREES.
5. ALL AREAS SHOWN ON THE PLANS AS "POUR 1" MUST BE PLACED DURING THE INITIAL CONTINUOUS WORK PERIOD. SUBSEQUENT PLACEMENTS WILL NOT BE PERMITTED UNTIL 72 HOURS AFTER THE START OF THE PREVIOUS PLACEMENT.
6. LONGITUDINAL CONSTRUCTION JOINTS WILL NOT BE PERMITTED UNLESS DETAILED ON THE PLANS.
7. "POUR 1" SHALL BE ACCOMPLISHED BY THE SIMULTANEOUS OPERATION OF TWO FINISHING MACHINES AND CREWS. A MINIMUM RATE OF PLACEMENT OF 23m³/HR SHALL BE MAINTAINED BY EACH MACHINE.
8. THE CONTRACTOR MAY DIVIDE "POUR 2" INTO SEPARATE SEGMENTS PROVIDED THE 72 HOUR WAITING PERIOD BETWEEN PLACEMENTS IS OBSERVED.

9. A DETAILED WRITTEN PLAN OF THE PROPOSED PLACEMENT PLAN MUST BE SUBMITTED AND HAVE AUTHORITY APPROVAL BEFORE INSTALLATION OF FORMS. THIS PLAN SHALL:
 - A. CLEARLY STATE HOW THE CONCRETE WILL BE PLACED USING THE EQUIPMENT, PERSONNEL, AND ANY OTHER REQUIRED RESOURCES.
 - B. INCLUDE THE QUANTITY, TYPE, AND RELEVANT FEATURES OF EQUIPMENT USED IN THIS WORK THAT WILL AFFECT THE RATE OF PLACEMENT.
 - C. INCLUDE CONTINGENCIES FOR CHANGES IN WEATHER, EQUIPMENT BREAKDOWNS, BATCH PLANT DELAYS, OR ANY OTHER FACTORS THAT COULD DELAY OR STOP THIS WORK.
 - D. STATE HOW PLACEMENT OPERATIONS WILL BE STOPPED IF REQUIRED, AND HOW THE END OF CONCRETE (TEMPORARY BULKHEAD) WILL BE FINISHED.
 - E. STATE AN ANTICIPATED RATE OF CONCRETE VOLUME PLACED PER HOUR.
10. THE AUTHORITY WILL NOT APPROVE ANY PLAN, NOR WILL IT ALLOW, ANY METHOD THAT INCREASES THE PROBABILITY OF DEFLECTION CRACKING. THE ENGINEER MAY ORDER THE PLACEMENT OPERATIONS STOPPED IF THE APPROVED PLAN IS NOT FOLLOWED IN ANY WAY.
11. 6 HOURS IS THE TIME LIMIT FROM START TO FINISH OF A CONTINUOUS PLACEMENT.
12. A MINIMUM PLACEMENT RATE OF 23m³/HR SHALL BE MAINTAINED THROUGHOUT THE PLACEMENT OPERATION ON POUR #2.



FASCIA REINFORCING DETAIL
Scale: 1 : 10

NOTE: SEE POUR SEQUENCE ON DRAWING C19.

NOTE:
THE DETAILS ON THIS SHEET ARE COMMON TO THE BRIDGES AT MILEPOSTS 319.19, 321.08, 324.16 AND 324.79. FOR THE BRIDGE AT MP 317.46, SEE SHEETS 32-51.

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

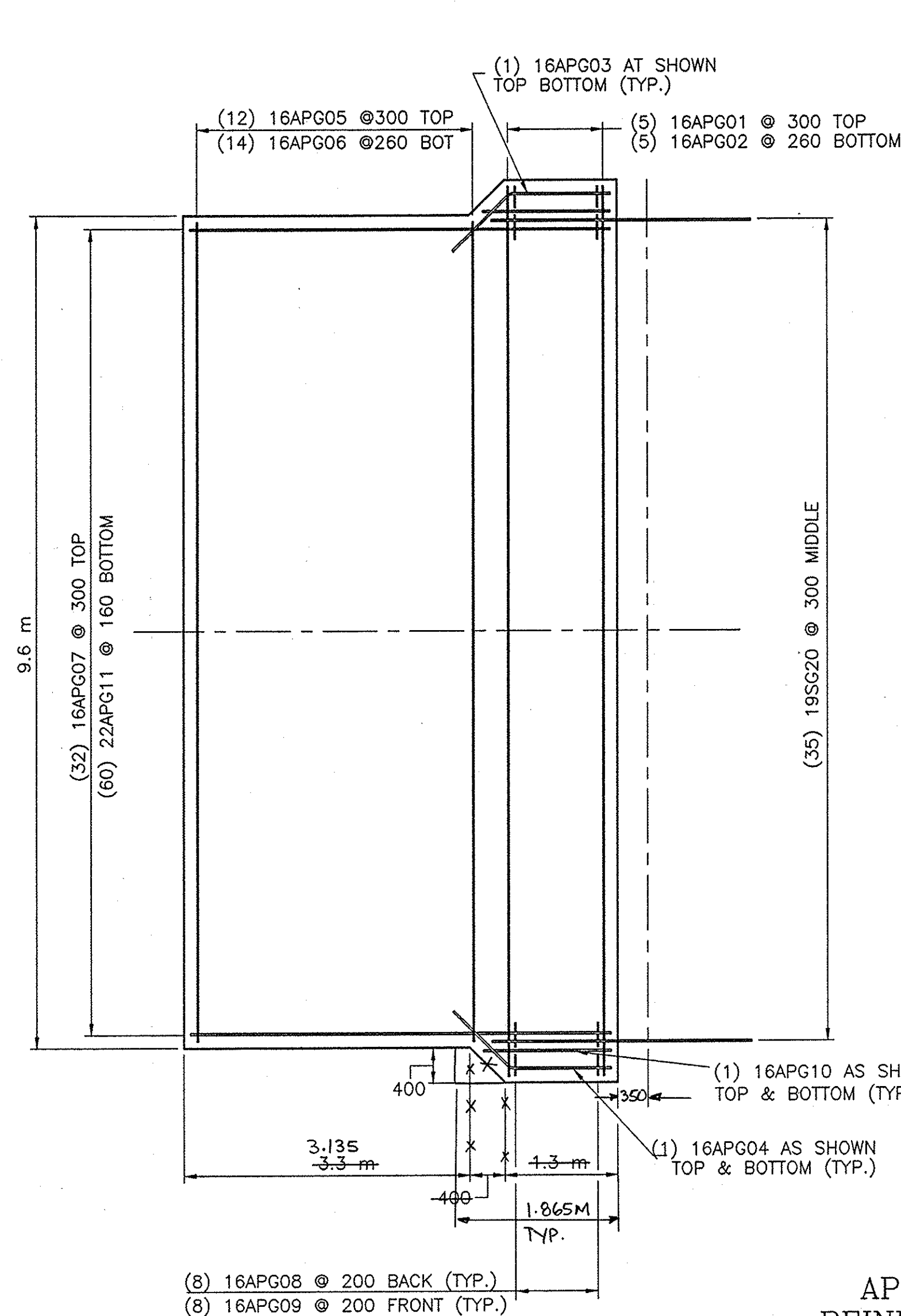
NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

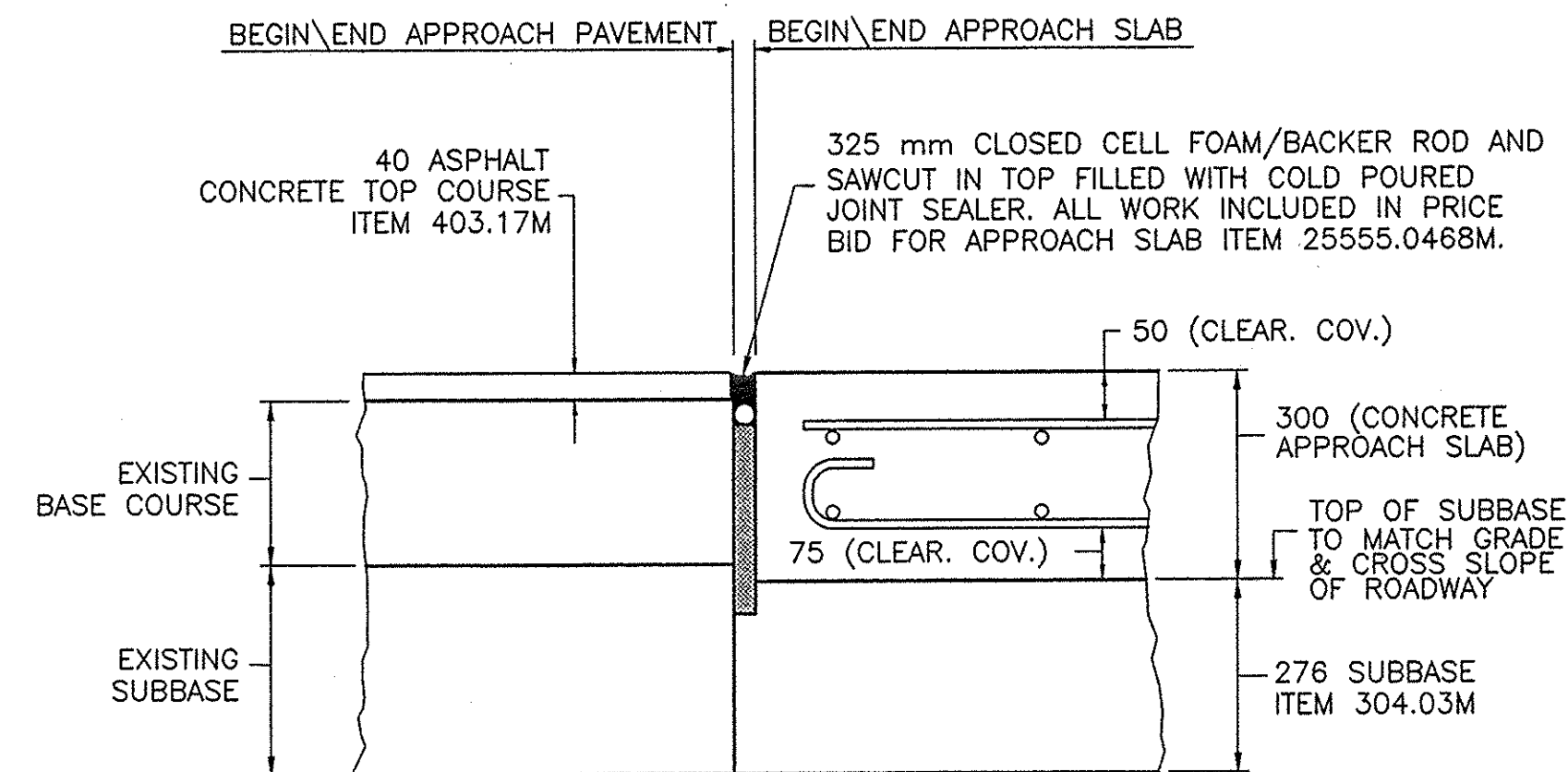
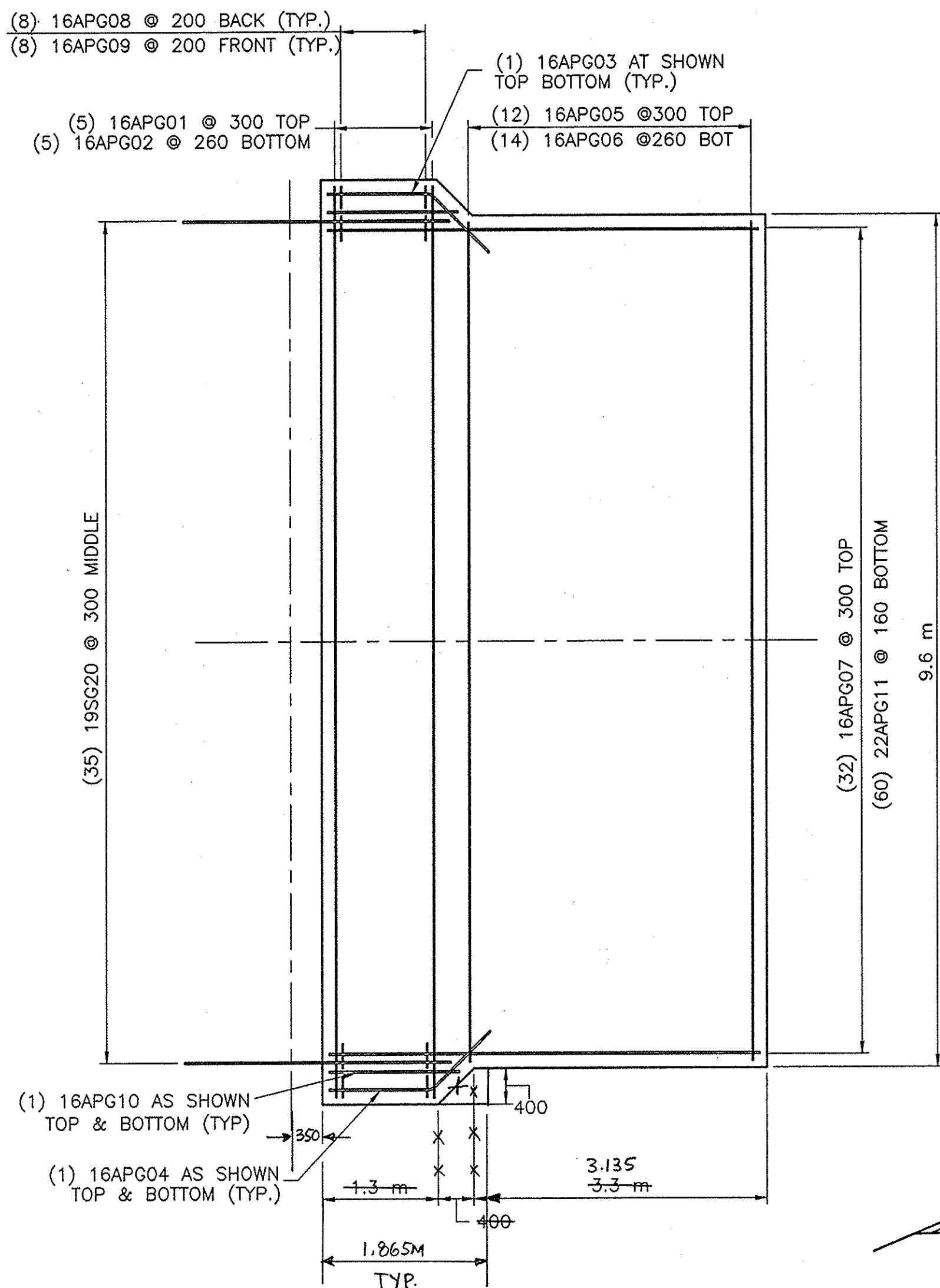
REVISIONS

NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS	
LOCATION OF PROJECT SENECA COUNTY	
TITLE OF DRAWING DECK REINFORCING DETAILS	
CONTRACT NUMBER: TAS 98-8B	DATE: 3/98
DRAWING NUMBER: C25	

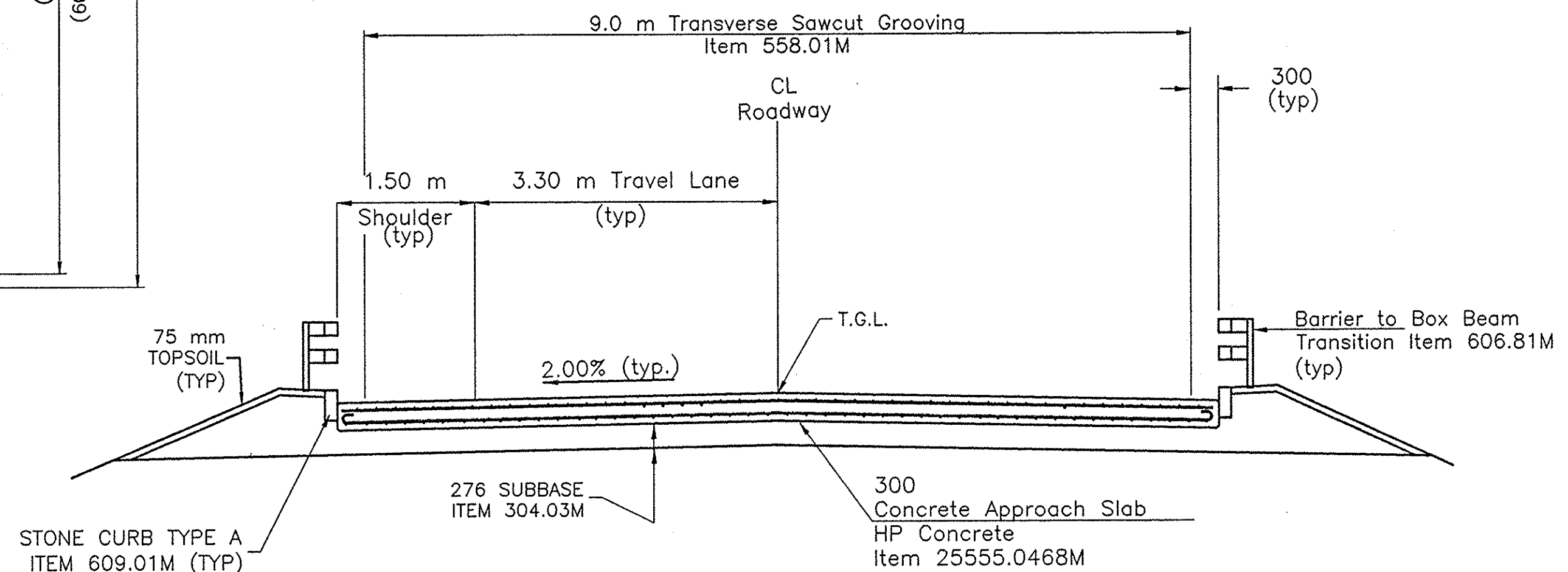




APPROACH SLABS
REINFORCEMENT PLAN
SCALE: 1 : 50

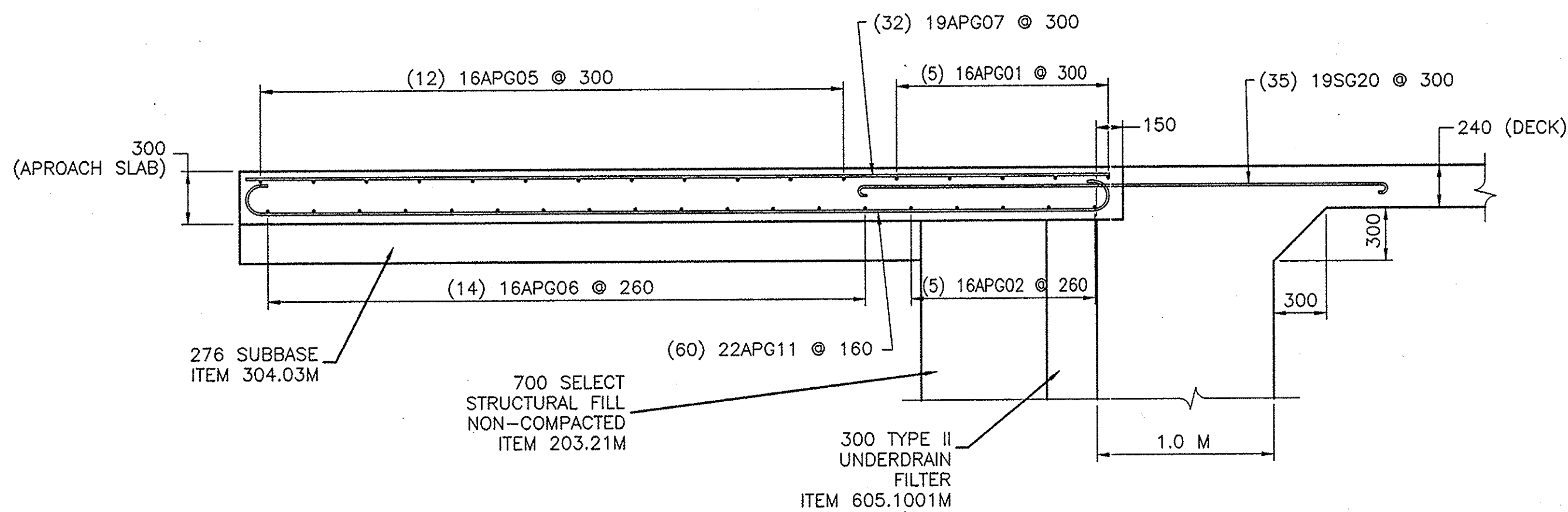


APPROACH SLAB
END DETAIL
SCALE: 1 : 10

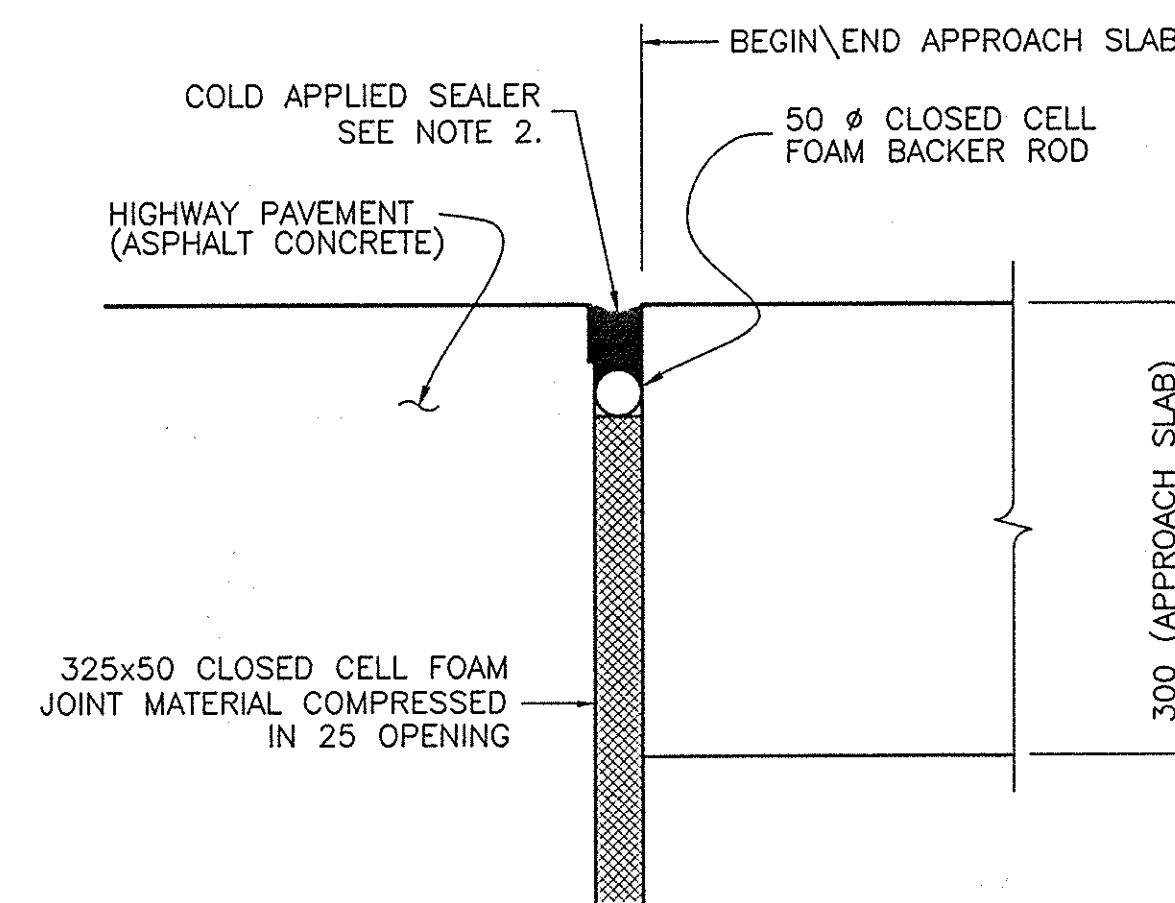


APPROACH SLAB
TRANSVERSE SECTION
SCALE: 1 : 25

NOTE:
THE DETAILS ON THIS SHEET ARE COMMON TO THE
BRIDGES AT MILEPOSTS 319.19, 321.08, 324.16
AND 324.79. FOR THE BRIDGE AT MP 317.46, SEE
SHEETS 32-51. APPROACH SLAB DIMENSION



APPROACH SLAB
TYPICAL LONGITUDINAL SECTION
SCALE: 1 : 25



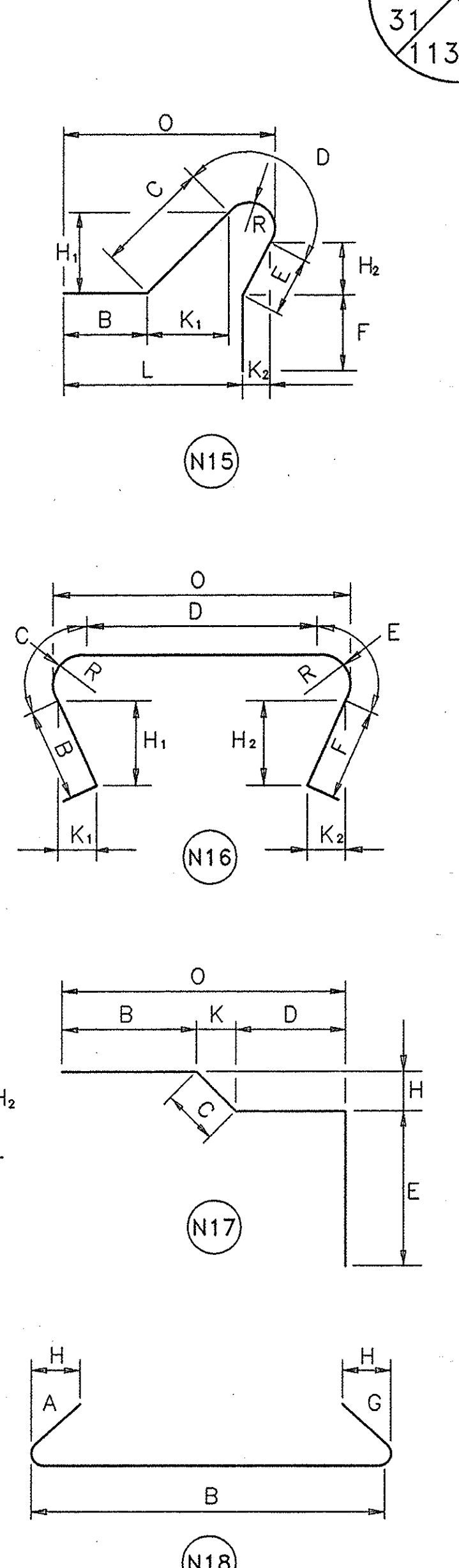
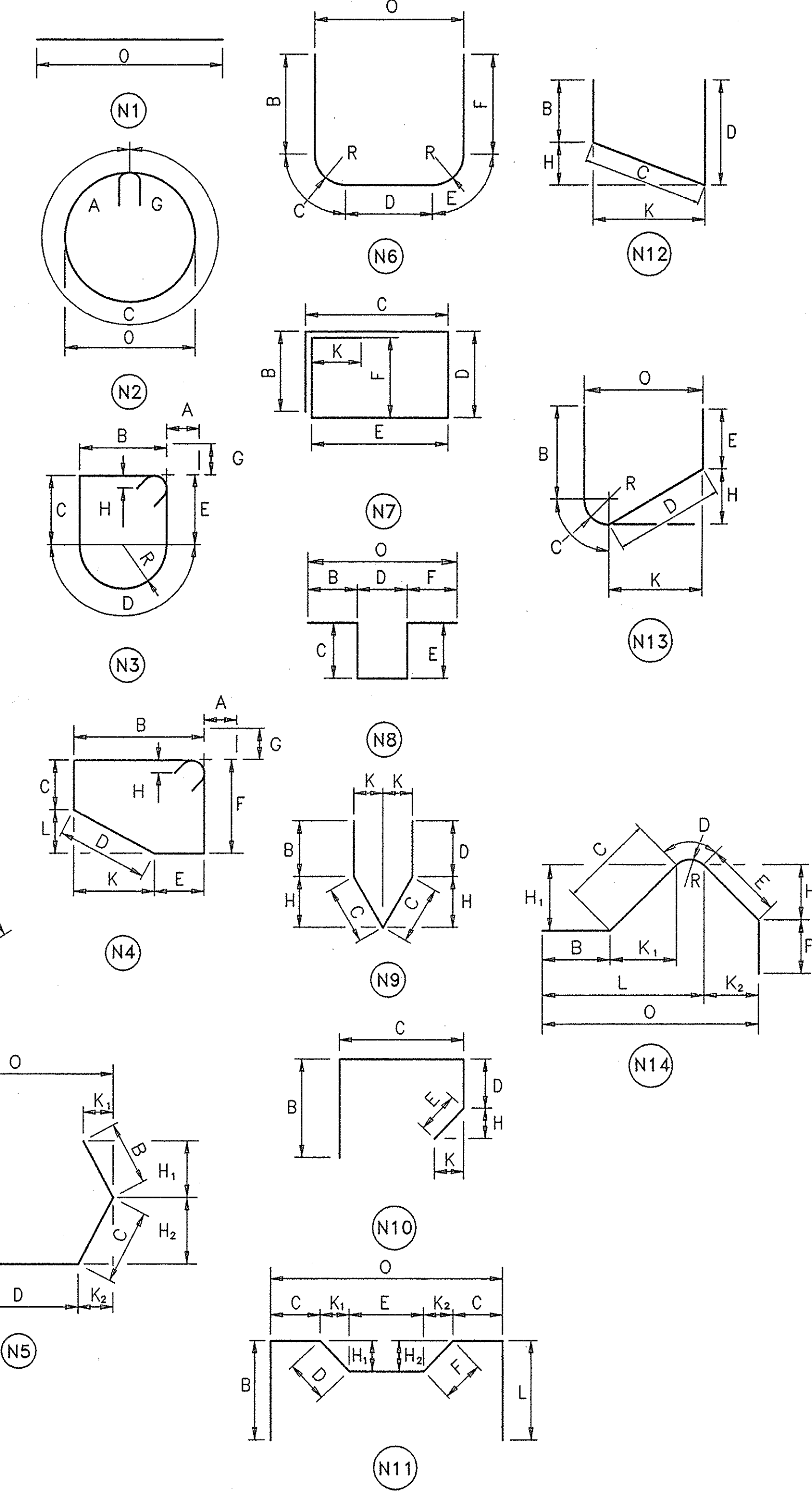
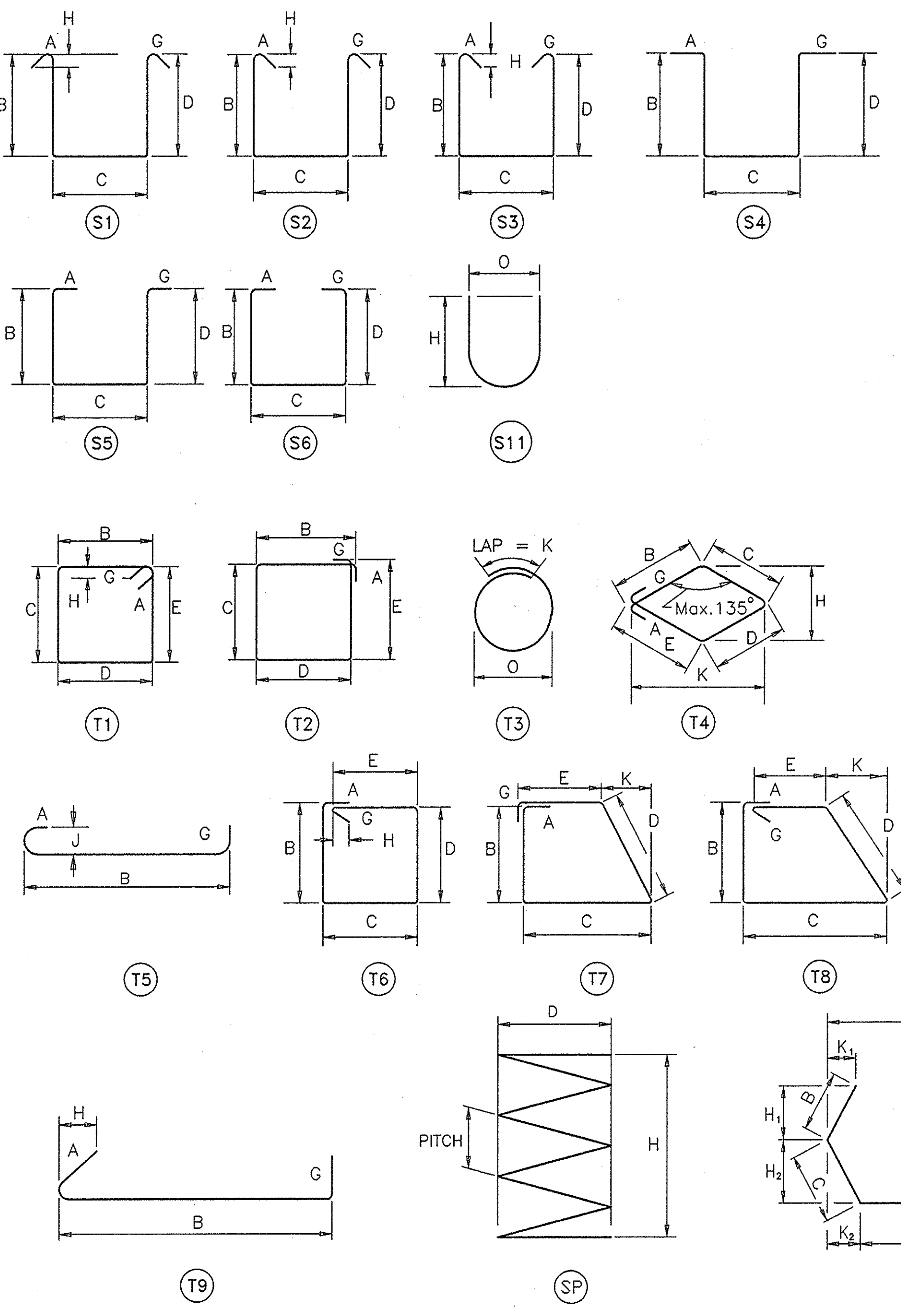
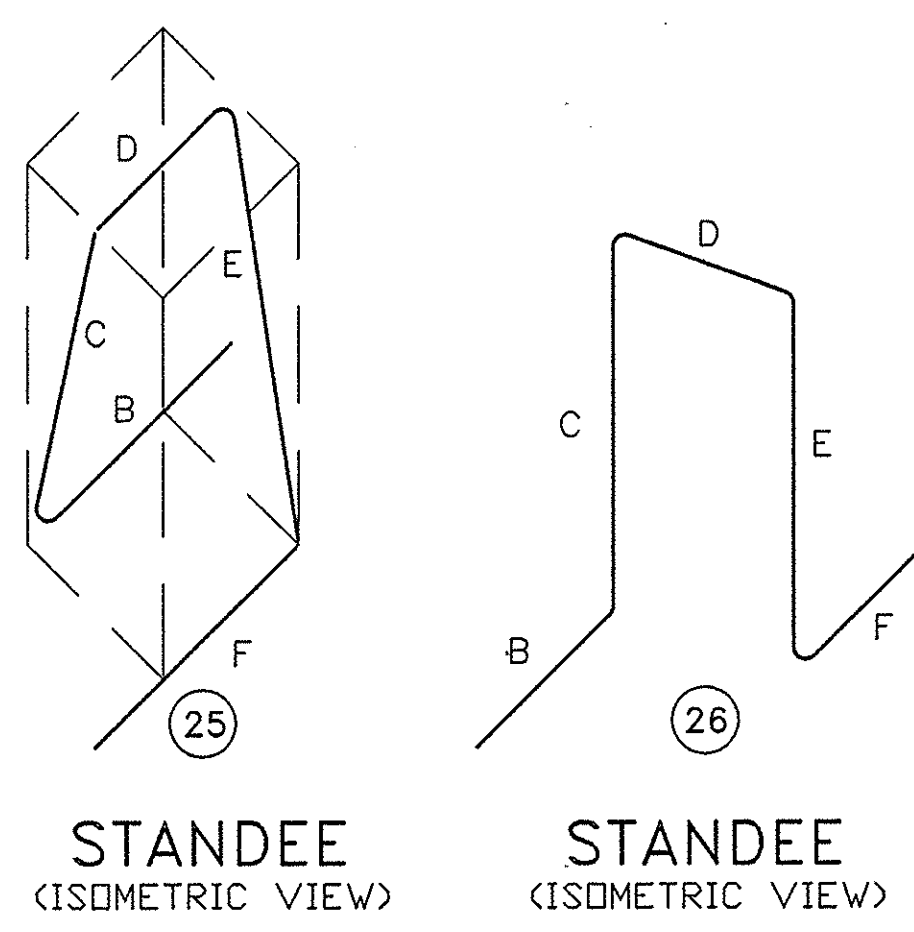
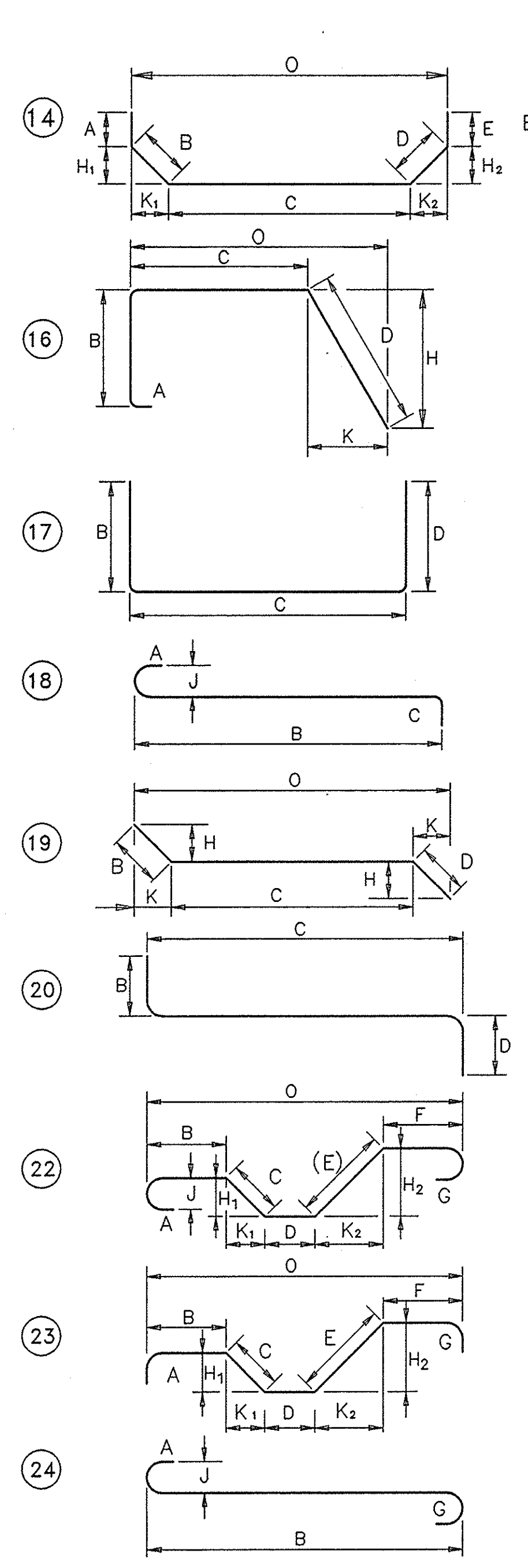
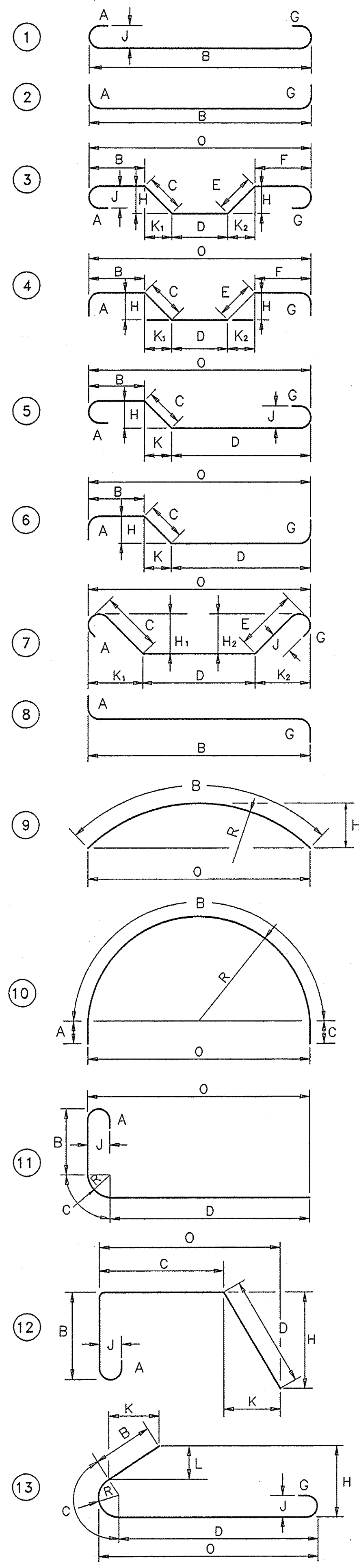
CLOSED CELL
FOAM JOINT DETAIL
SCALE: 1 : 5

NOTES

- ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.
- SAW CUT 30 x 40 mm UNLESS OTHERWISE NOTED.
- STRUCTURAL FILL AND EMBANKMENT AT THE REAR OF THE ABUTMENT SHALL NOT BE COMPACTED.
- UNHINDERED LONGITUDE MOVEMENT OF THE APPROACH SLAB IS ACHIEVED BY MATCHING THE SURFACE OF THE SUBBASE COURSE TO THE ROADWAY GRADE AND CROSS SLOPE. POLYETHYLENE CURING COVERS (WHITE OPAQUE) IN ACCORDANCE WITH MATERIAL SPECIFICATION 711-04 SHALL BE PLACED ON TOP OF THE FINISHED SUBBASE COURSE FOR THE FULL WIDTH OF THE ROADWAY. THE CURING COVER'S THICKNESS SHALL BE 1.0 mm. LAPS SHALL BE 600 mm MINIMUM COST SHALL BE INCLUDED IN THE PRICE BID FOR THE APPROACH SLAB.
- SAW CUT RECESS JOINT AT THE END OF THE APPROACH SLAB: CLEAN THE RECESS WITH PRESSURE AIR AND INSTALL THE CLOSED FOAM AND FILL THE TOP OF THE RECESS WITH COLD APPLIED SEALER, FEDERAL MATERIAL SPECIFICATION SS-S-00195B- ELASTOMERIC POLYMER TYPE, TWO-COMPONENT COLD APPLIED. THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB ITEM.
- AT THE COLD FORMED JOINT BETWEEN THE APPROACH SLAB AND THE DECK A 6mm WIDE x 38mm DEEP SAW CUT SHALL BE MADE IN THE WEARING SURFACE DIRECTLY OVER THE JOINT. THIS SAW CUT SHALL BE THE FULL WIDTH OF THE APPROACH SLAB. SEAL THE SAW CUT WITH HOT POURED JOINT SEALER AS PER FED. SPEC. SS-S-001401. THE COST IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB ITEM.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT SENECA COUNTY			
TITLE OF DRAWING APPROACH SLAB DETAILS			
	CONTRACT NUMBER: TAS 98-8B		
	DATE: 3/98		
	DRAWING NUMBER: C26		

CHECKED BY: *[Signature]* DRAFTED BY: *[Signature]* DESIGNED BY: *[Signature]* IN CHARGE OF: *[Signature]*



STEEL REINFORCEMENT NOTES


- UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT," AASHTO M31 (ASTM A615-S1). ALL BARS SHALL BE GRADE 400 UNLESS OTHERWISE DESIGNATED.
- FOR TYPICAL BENDING DETAILS, RECOMMENDED P.I.N. DIAMETER "D" OF BENDS HOOKS AND OTHER STANDARD PRACTICES SEE ACI-318-83, (CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICES" (MSP).)
- BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
- ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180° AND 135° HOOKS.
- DIMENSIONS "A", "G" AND "J" ARE STANDARD BENDING DIMENSIONS PER EACH SIZE OF BAR. REFER TO C.R.S.I. - M.S.P. FOR DETAILS.
- WHERE SLOPE DIFFERS FROM 45°; DIMENSIONS "H" AND "K" MUST BE SHOWN.
- ▲ - INDICATES BARS TO CUT TO FIT IN THE FIELD.
- FIELD CUT ENDS OF EPOXY COATED REINFORCING STEEL SHALL BE REPAINTED AS PER SECTION 556.3.02C OF THE N.Y.S. STANDARD SPECIFICATIONS. THE COST FOR THIS WORK SHALL BE INCLUDED IN THE TOTAL PRICE BID FOR ITEM 556.0202M.
- FIELD CUT ENDS OF GALVANIZED REINFORCING STEEL SHALL BE REPAIRED AS PER ITEM 25556.99M, AND THE COST FOR THIS WORK SHALL BE INCLUDED IN THE TOTAL PRICE BID FOR ITEM 25556.99M.
- THE ITEM FOR REINFORCING STEEL IS AS FOLLOWS:
25556.99M - GALVANIZED BAR REINFORCEMENT FOR STRUCTURES.
- BAR MARK PROCEDURE IS AS FOLLOWS:
13SAG03
INDICATES BAR COATING (G=GALV., E=EPOXY, BLANK=BLACK)
INDICATES STRUCTURE TYPE (IE. A=ABUTMENT, P=PIER ETC.)
INDICATES BAR LOCATION (IE. S=SOUTH, N=NORTH ETC.) (OPTIONAL).
INDICATES METRIC BAR SIZE (IE. 16,19,22 ETC.)
- BAR MARKS SHOULD NORMALLY INCREASE IN NUMBER FROM SMALLEST TO THE LARGEST BAR SIZE AT EACH LOCATION.
- "*" - INDICATES BAR MARK IS OUT OF SEQUENCE.

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS	
LOCATION OF PROJECT SENECA COUNTY	
TITLE OF DRAWING STANDARD BARBEND DETAILS	



CONTRACT NUMBER:
TAS 98-8B
DATE:
3/98
DRAWING NUMBER:
C27

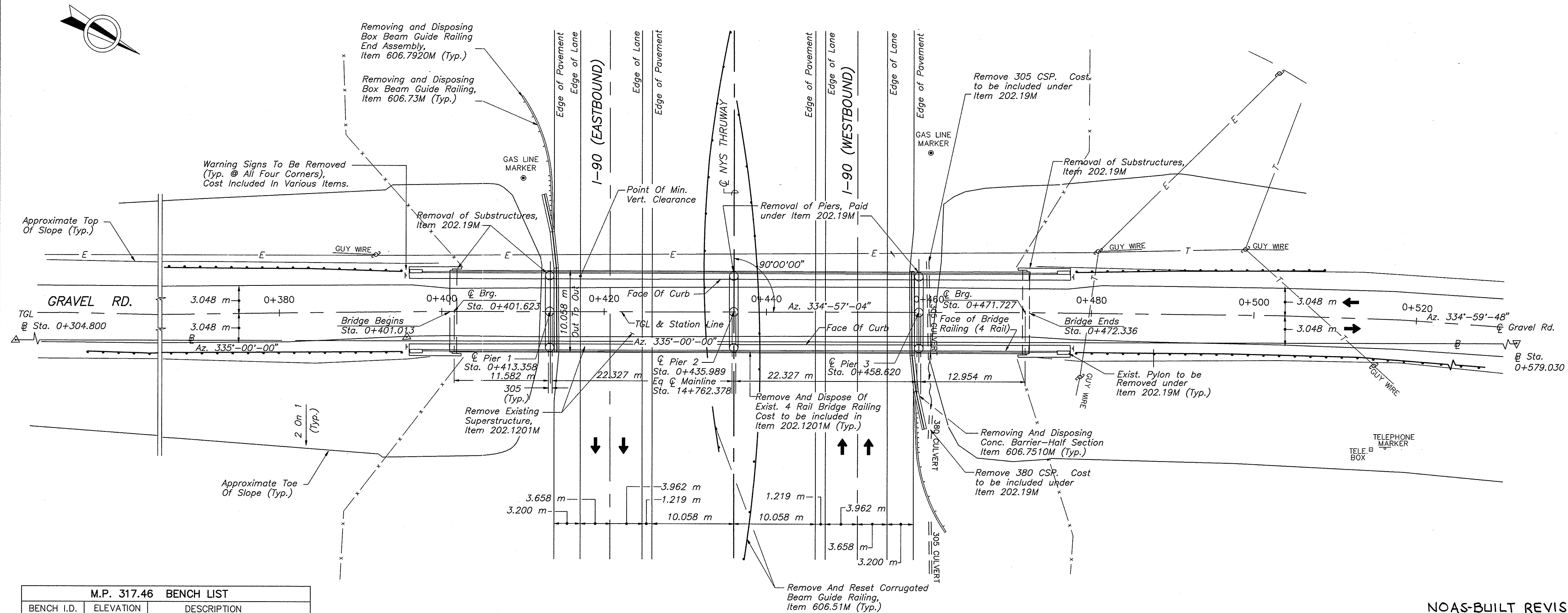
ALL DIMENSIONS ARE OUT-TO-OUT DIMENSIONS EXCEPT HOOKS A & G

CHECKED BY: Andrew R. Madala

DRAFTED BY: Wayne A. Ego

DESIGNED BY: Wayne A. Ego

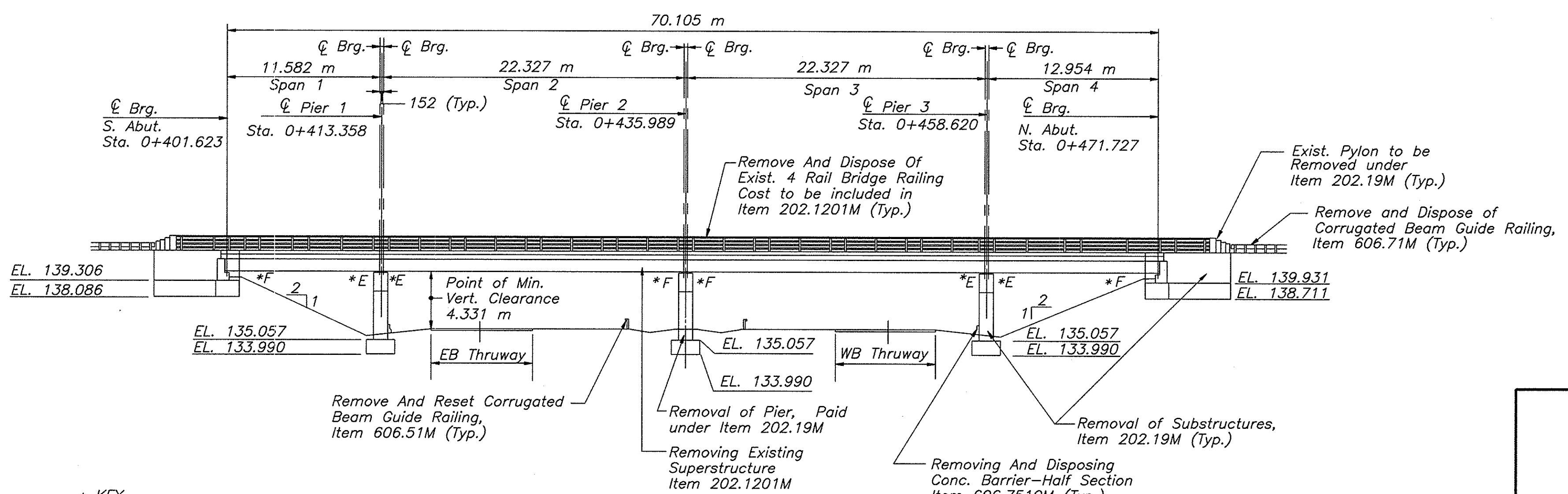
IN CHARGE OF: Andrew R. Madala
BA77052 (UNCL) PS&E/AD1/DWG 03-25-98 MLW



PLAN
Scale: 1 : 250

M.P. 317.46 BENCH LIST		
BENCH I.D.	ELEVATION	DESCRIPTION
BM #1	138.937	R.R. Spk. In NYSEG50A/NYT163
BM #2	143.832	R.R. Spk. In 24" Maple
TBM #1	136.904	S.E. Cr. Conc. Barrier S. EPS @ EB Lane

NOTICE:
EXISTING BORING LOCATIONS AND LOGS ARE LOCATED IN THE FOUNDATION REPORT AVAILABLE AT THE ALBANY HEADQUARTERS STRUCTURES DESIGN BUREAU.



ELEVATION
Scale: 1 : 250

* KEY
E=Expansion Brg.
F=Fixed Brg.

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

Professional Engineer Seal for William F. Kubera, Jr., P.E., State of New York, No. 060651, dated 3-26-98.

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

BRYANT ASSOCIATES, P.C.
Engineers - Surveyors
SYRACUSE, NEW YORK

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

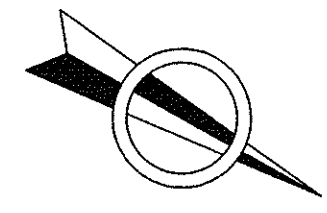
TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA - MP 317.46
GRAVEL ROAD

TITLE OF DRAWING

EXISTING PLAN AND ELEVATION

CONTRACT NUMBER: TAS 98-8B
DATE: MAR. 1998
DRAWING NUMBER: A1

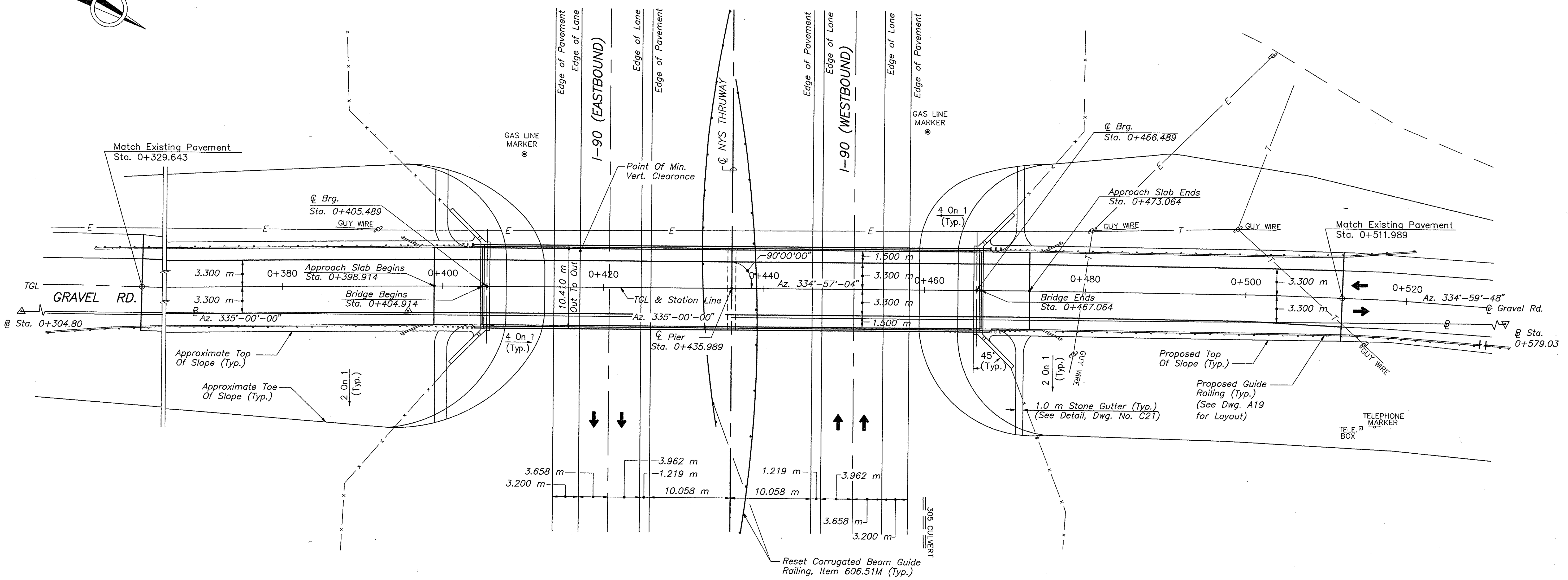


CHECKED BY: Antonio R. Malabon

DRAFTED BY: Wayne A. Sipe

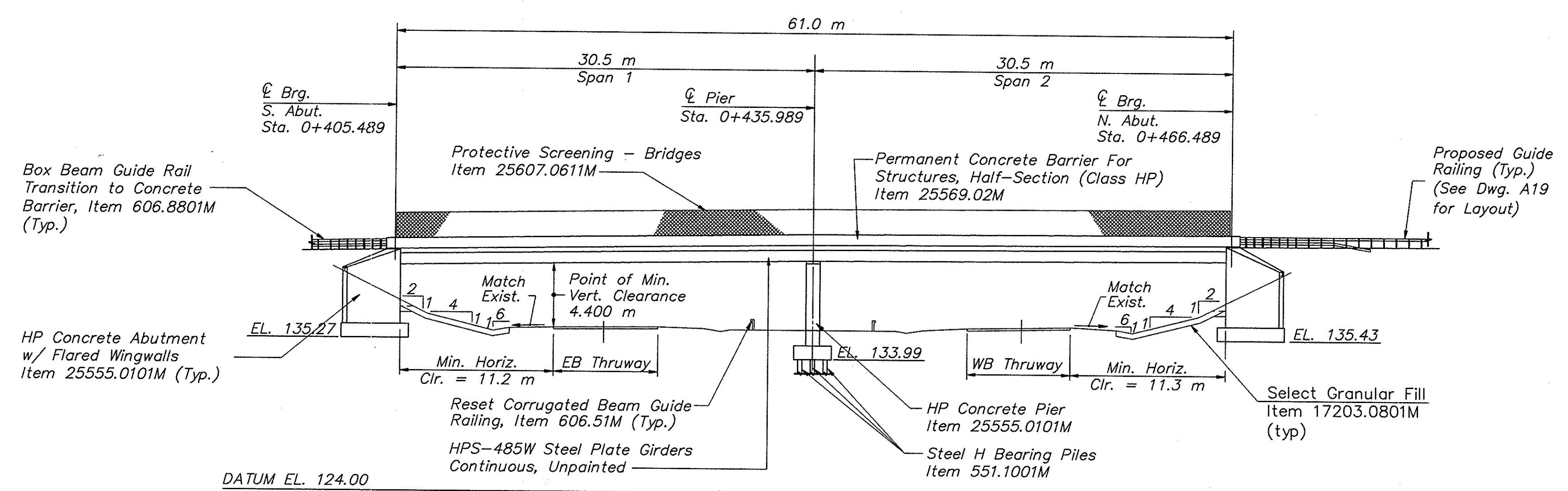
DESIGNED BY: Wayne A. Sipe

IN CHARGE OF: Antonio R. Malabon
BUTLER ENGINEERING, INC. 03-25-88 M.W.



PLAN

Scale: 1 : 250



ELEVATION

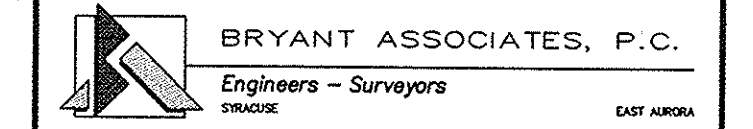
Scale: 1 : 250

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS



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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA - MP 317.46
GRAVEL ROAD

TITLE OF DRAWING
PROPOSED PLAN AND ELEVATION

	CONTRACT NUMBER: TAS 98-8B
	DATE: MAR. 1998
	DRAWING NUMBER: A2

William F. Kubera, Jr., P.E.
 Date: 3-26-98

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
202.1201M	REMOVE EXISTING SUPERSTRUCTURE	LS	NEC	100.00
900.9808	A-SILT FENCE	M	—	30.47
202.19M	REMOVAL OF SUBSTRUCTURES	CM	200.0	194.51
901.9808	A-INSTALL PIER BEARING TIE-DOWN BRACKETS	EA	—	10.00
203.02M	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	33.0	21.47
203.03M	EMBANKMENT IN PLACE	CM	380.0	360.00
902.9808	A-GEOTEXTILE BEDDING	SM	—	80.80
17203.0801M	SLCT GRANLR FLL, SLP PROT STRS	CM	43.0	82.12
903.9808	FA-RESET ROW FENCING AT GRANGE HALL & GRAVEL ROADS	LS	—	50.00
203.21M	SELECT STRUCTURE FILL	CM	960.0	840.36
904.9808	A-INSTALL ABUTMENT END DIAPHRAGMS AT GRAVEL ROAD	LS	—	100.00
206.01M	STRUCTURE EXCAVATION	CM	1710.0	1523.25
207.03M	GEOTEXTILE UNDERDRAIN	SM	27.0	17.36
209.01M	TEMP. SOIL EROSION AND WATER POLLUTION CONTROL	FLS	0.2	0.00
304.03M	SUBBASE COURSE TYPE 2	CM	53.0	104.00
403.11M	ASPHALT CONCRETE TYPE 1 BASE COURSE	MT	210.0	116.56
403.13M	ASPHALT CONCRETE-TYPE 3 BINDER COURSE	MT	90.0	101.20
403.17M	ASPH CONC - TYPE 6F TOP COURSE (HIGH FRICTION)MARSHALL DESIGN	MT	100.0	77.90
403.21M	ASPHALT CONCRETE-TRUING & LEVELING COURSE	MT	28.0	5.88
407.01M	TACK COAT	L	211.0	59.36
906.9808	A-RADAR DETECTOR ACTIVATOR	LS	—	20.00
490.30M	MISC. COLD MILL OF BIT CONC.	SM	660.0	431.20
25502.5001M	SAWCUTTING OF ASPHALT CONCRETE	M	54.0	86.70
551.09M	FURNISHING EQUIPMENT FOR DRIVING PILES	LS	NEC	20.00
909.9808	A-ADDITIONAL SIGN SERIES	LS	—	20.00
551.1001M	STEEL BEARING PILES (HP 250 X 62)	M	200.0	170.94
911.9808	A-PLANTING VIBURNUM TOMENTOSUM	EA	—	16.00
552.05M	SAFE OPERATION SHEET PILING	SM	640.0	0.00
912.9808	FA-SOUTH ABUTMENT CONTRACTION JOINT REPAIR AT GRAVEL ROAD	LS	—	100.00
25555.0101M	CONCRETE FOR STRUCTURES-CLASS HP	CM	461.0	447.91
25555.0466M	HI PERF. CONC. FOR STRUC CL HP (ST SLAB W/ INT WEAR SUR BFR)	SM	647.0	641.00
25555.0468M	HP CONC FOR STRUCT, CLASS HP (STR APP SLAB W/INT WEAR SURF)	SM	120.0	120.00
556.03M	STUD SHEAR CONNEC. FOR BRIDGES	EA	2490	7634.00
25556.99M	GALV. BAR REINFORCMENT FOR STR	KG	56 673	57613.44
558.01M	TRANSVR SAWCUT GROOVE STR SLAB	SM	660.0	660.00
25559.1696M	PROT. SEAL OF STRUC. CONCRETE	SM	1102.0	1102.00
25564.519801M	TRANS. & ERECT. OF STRUCT. STEEL	LS	NEC	100.00
565.1722M	TYPE M.R. FIXED BEARINGS	EA	5	5.00

ESTIMATE OF QUANTITIES

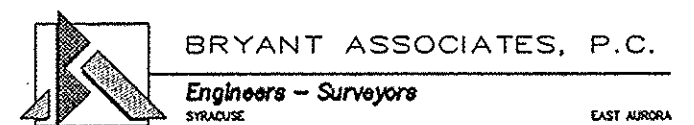
ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
25565.2203M	PREFORMED FABRIC BEARINGS	EA	10	10.00
25569.02M	PERM. CONC. BARRIER CLASS HP	M	128.3	131.73
570.0901M	ENV. GROUND PROTECTION	LS	NEC	0.00
571.0101M	TREAT. & DISP. OF PAINT REM. WASTE	CM	0.2	0.00
605.1001M	UNDERDRAIN FILTER TYPE 2	CM	72.0	63.91
605.1502M	PERF COR POLYETHYLENE UNDRDRN TUBING 150 mm DIAMETER	M	43.0	38.00
606.10M	BOX BEAM GUIDE RAILING	M	36.0	52.12
606.13M	BOX BM. G.R. END ASSEM. TYPE-II	EA	1.0	1.00
606.16M	CORRUGATED BEAM GUIDE RAILING	M	317.0	316.23
606.22M	ANCHORAGE UNIT FOR CORR. BM. G.R.	EA	3	3.00
606.51M	RESETTING CORR. BEAM GUIDE RAILING	M	116.0	106.68
606.71M	REM. & DISP. CORR. BM. G.R.	M	306.0	313.85
606.73M	REM. & DISP. BOX BM. GUIDE RAILING	M	113.0	106.85
606.7510M	REM. & DISP. CONC. BARR. HALF SEC.	M	49.0	39.52
606.7920M	REM. & DISP. BX. BM. END ASSEMBLY	EA	2	2.00
606.81M	G.R. TRANS. CORR. BM. TO BOX BM.	EA	3	3.00
606.8801M	BOX BM. G.R. TRANS. TO CONC. BARR.	EA	4	4.00
25607.0611M	PROTECTIVE SCREENING BRIDGES	M	115.2	110.20
609.0201M	STONE CURB - GRANITE (TYPE A)	M	21.2	20.00
611.034163M	PLANTING PINUS NIGRA	EA	8	8.00
611.046342M	PLANTING RHUS AROMATICA	EA	112	112.00
611.049662M	PLANTING VIBURNUM TOMENTOSUM	EA	16	0.00
619.01M	BASIC MAINTENANCE & PROTECTION OF TRAFFIC	LS	NEC	20.00
619.02M	CONSTRUCTION SIGNS	LS	NEC	20.00
619.0303M	FLASHING ARROW BOARDS	LS	NEC	20.00
619.0413M	TYPE III CONSTRUCT. BARRICADES	M	17.0	13.42
619.0502M	LIGHTING FOR CONST. BARRICADES	M	12.0	10.98
25619.1701M	TEMPORARY CONCRETE BARRIER	M	195.0	268.00
25619.1704M	CONCRETE BARRIER MARKERS	EA	8	8.00
25637.070102M	ENGINEER'S OFFICE - TYPE C	MOS	4.0	4.00
699.04M	MOBILIZATION	LS	NEC	20.00

FINAL QUANTITIES SHOWN
NEW ITEMS LISTED

2/1/00	Kenneth J. Hansen		

DATE	DESCRIPTION	BY	SYM.
------	-------------	----	------

REVISIONS



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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS
LOCATION OF PROJECT
SENECA - MP 317.46
GRAVEL ROAD
TITLE OF DRAWING

ESTIMATE
OF QUANTITIES

CONTRACT NUMBER:
TAS 98-8B
DATE:
MAR. 1998
DRAWING NUMBER:
A3



William F. Kubera, Jr., P.E. 3-26-98
Date



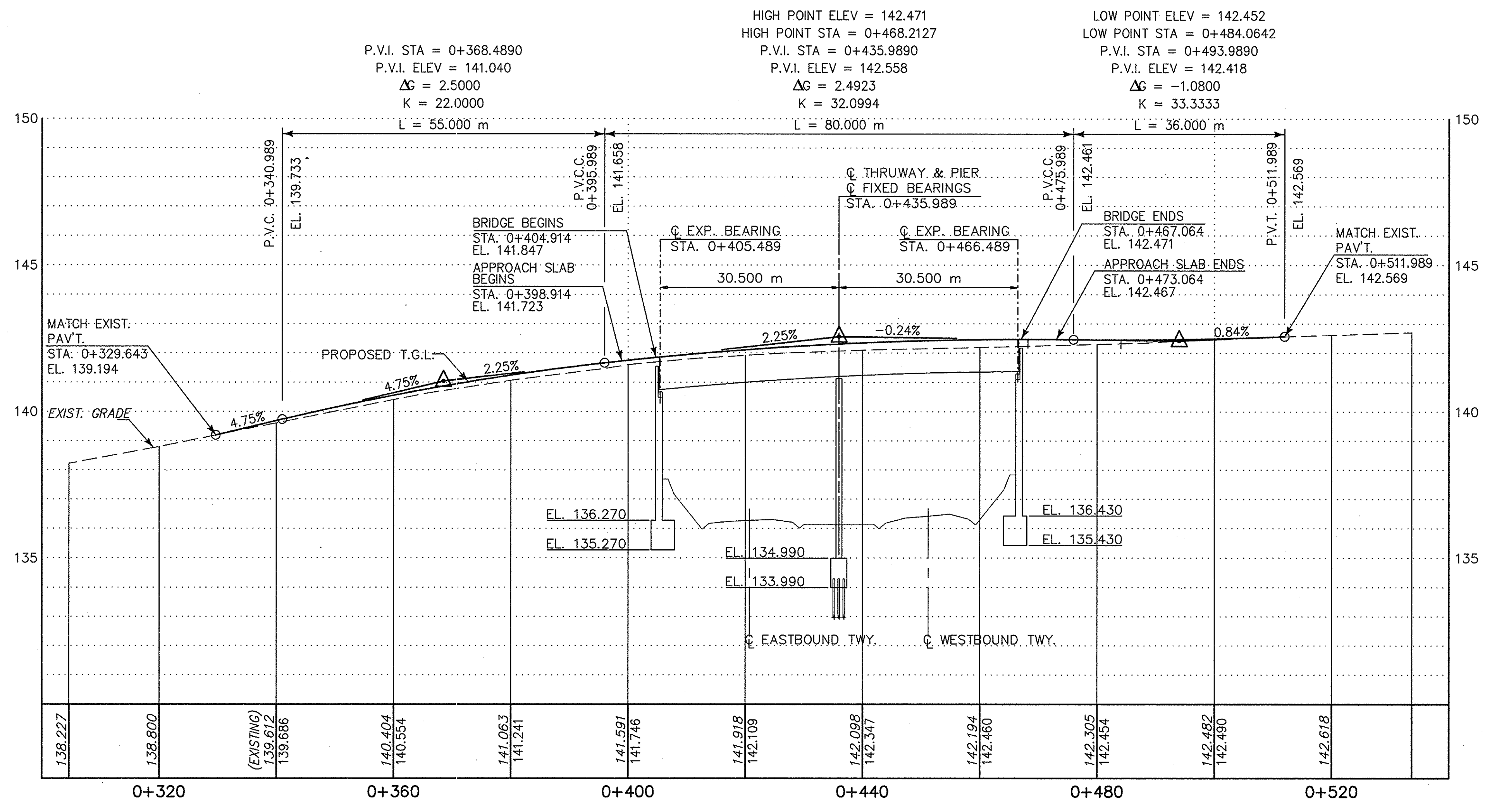
CHECKED BY: Andrew B. Mielke

DRAWN BY: Wayne A. Sipe

DESIGNED BY: Wayne A. Sipe

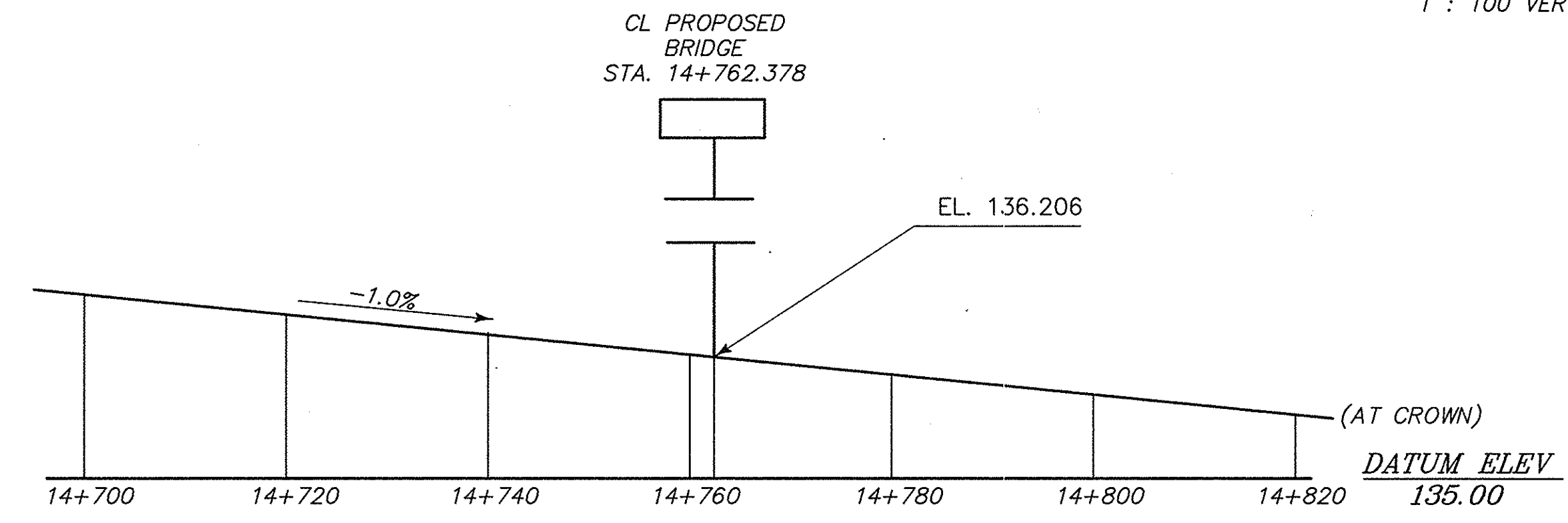
IN CHARGE OF: Andrew B. Mielke
B1705.2.DWG VS&E A03.DWG 03-08-98

DESIGNED BY: Anthony B. Madonia
IN CHARGE OF: Anthony B. Madonia
DRAFTED BY: Madonia & Wayne A. Sipe
CHECKED BY: Wayne A. Sipe



PROPOSED PROFILE - GRAVEL ROAD

Scale: 1 : 500 HORIZ.
1 : 100 VERT.



EXISTING PROFILE - NYS THRUWAY

NOTE:
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.
ALL ELEVATIONS ARE SHOWN IN METERS.

Professional Engineer Seal for William F. Kubera, Jr., P.E., No. 080631, State of New York.

William F. Kubera, Jr., P.E. 3-26-98 Date

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.
2/24/90	Kub		

REVISIONS

BRYANT ASSOCIATES, P.C.
Engineers - Surveyors
STROUSE EAST AURORA

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA - MP 317.46
GRAVEL ROAD

TITLE OF DRAWING
PROPOSED PROFILE

CONTRACT NUMBER:
TAS 98-8B

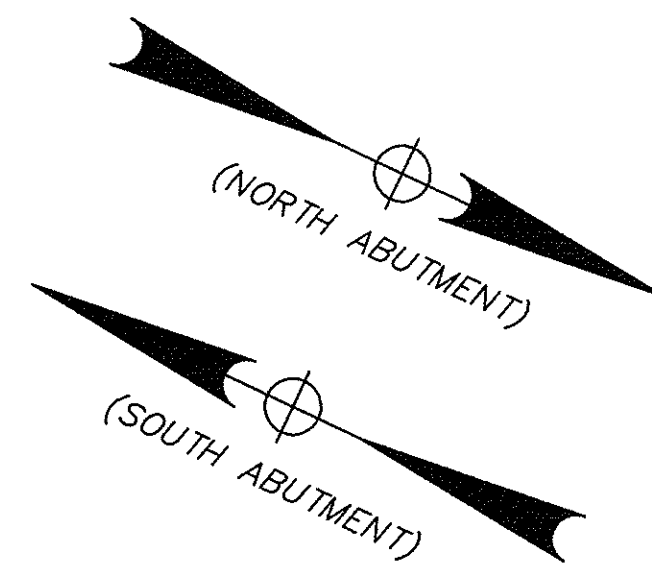
DATE:
MAR. 1998

DRAWING NUMBER:
A4

NOTE: ALL DIMENSIONS ARE SHOWN IN
MILLIMETERS UNLESS OTHERWISE NOTED.
ALL ELEVATIONS ARE SHOWN IN METERS.

DRAFTED BY: Martin L. Wayson

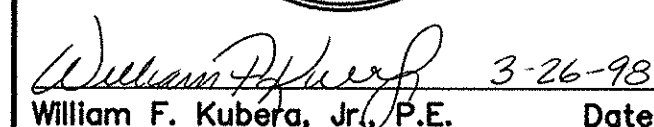
DESIGNED BY: Martin L. Wayson





SCALE: 1:100

(NORTH ABUTMENT SHOWN. SOUTH ABUTMENT IS SIMILAR.)

- ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE NOTED.
ALL ELEVATIONS ARE SHOWN IN METERS.



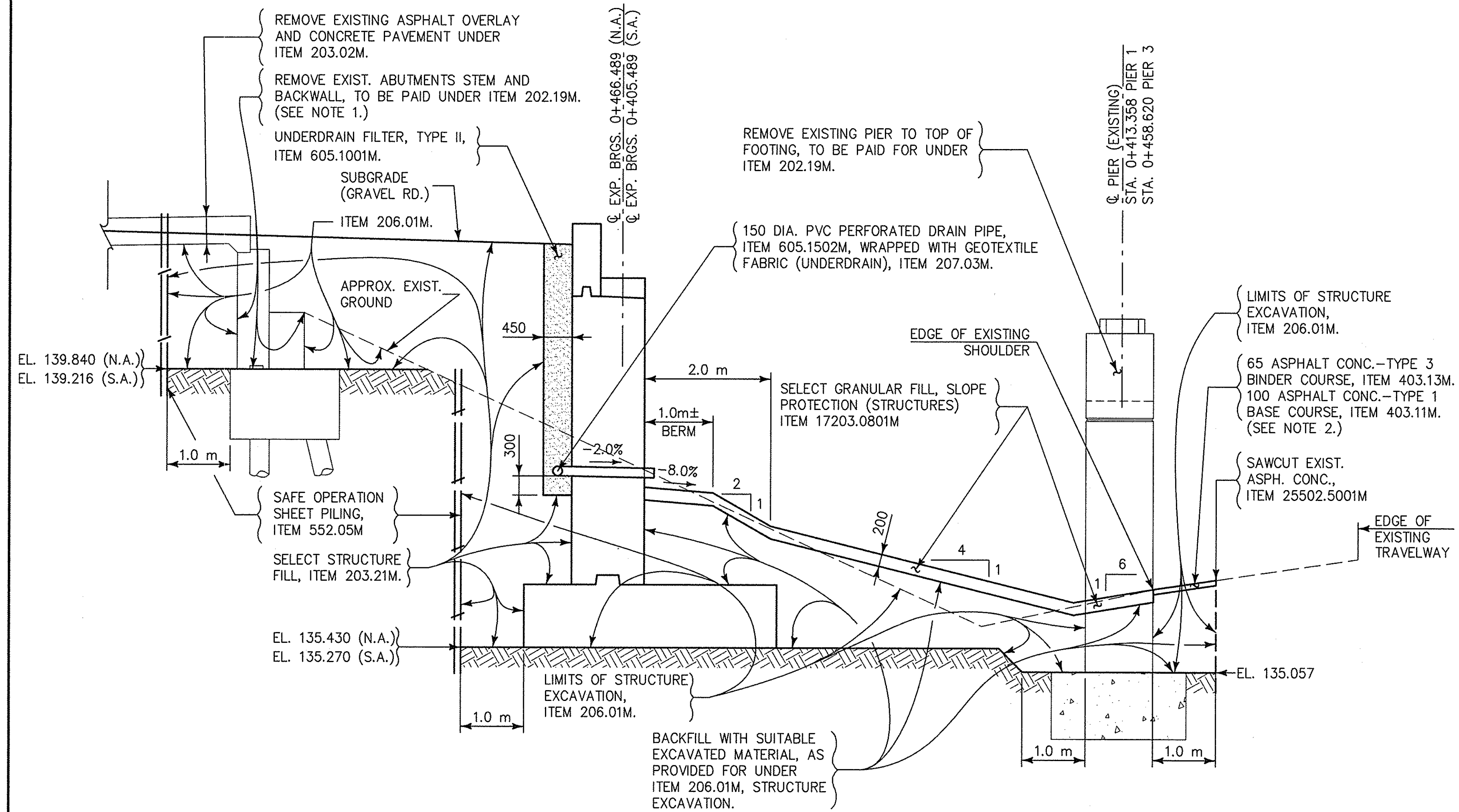
NOAS-BUILT REVISIONS			
1/24/80	KULP		
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
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<p>NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209</p>			
<p>TITLE OF PROJECT</p> <p style="text-align: center; font-size: 1.2em;">5 BRIDGE REPLACEMENTS</p>			
<p>LOCATION OF PROJECT</p> <p style="text-align: center; font-size: 1.2em;">SENECA – MP 317.46 GRAVEL ROAD</p>			
<p>TITLE OF DRAWING</p> <p style="text-align: center; font-size: 1.5em;">EXCAVATION & EMBANKMENT – PLAN –</p>			
		<p>CONTRACT NUMBER:</p> <p style="text-align: center; font-size: 1.2em;">TAS 98-8B</p>	
		<p>DATE:</p> <p style="text-align: center; font-size: 1.2em;">MAR. 1998</p>	
		<p>DRAWING NUMBER:</p> <p style="text-align: center; font-size: 2em; font-weight: bold;">A6</p>	

CHECKED BY: Wayne A. Faye

DRAFTED BY: Martin L. Wayson

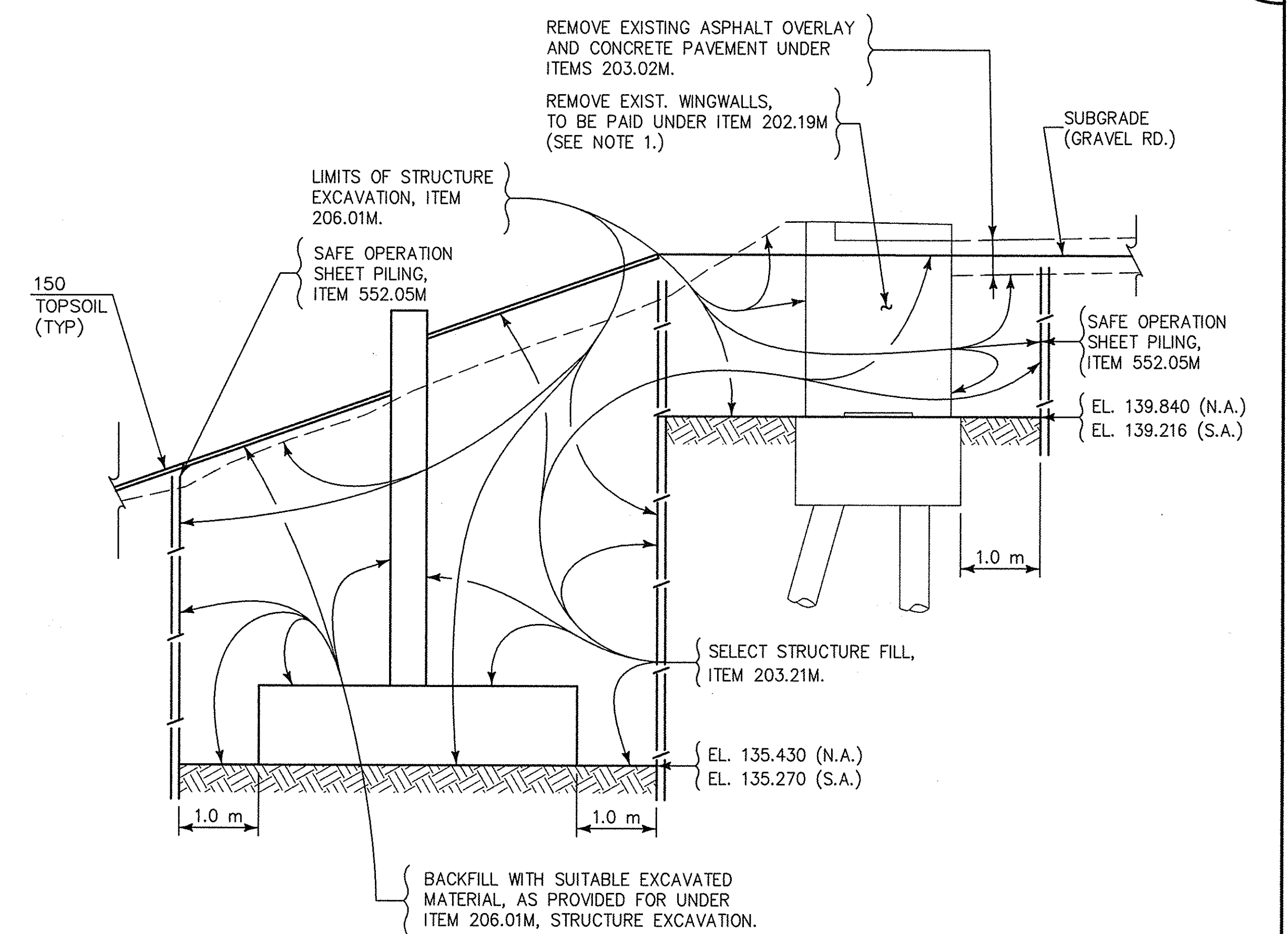
DESIGNED BY: Martin L. Wayson

IN CHARGE OF: Antonio R. Malachuk
BA7705.2.DWG/PS&E/A07.DWG 03-25-1998



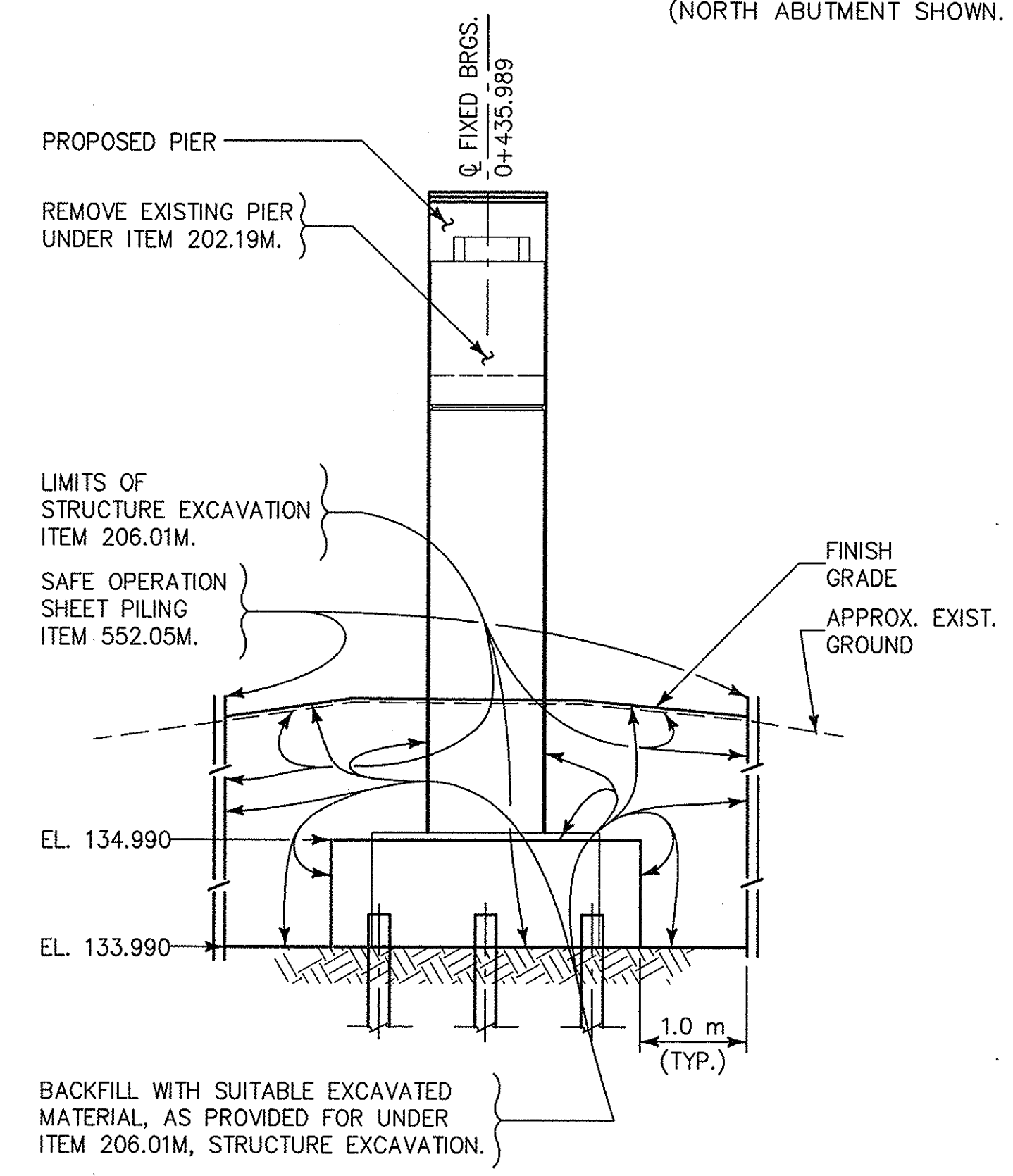
SECTION A-A

Scale: 1:50
(NORTH ABUTMENT SHOWN. SOUTH ABUTMENT IS SIMILAR.)



SECTION B-B

Scale: 1:50



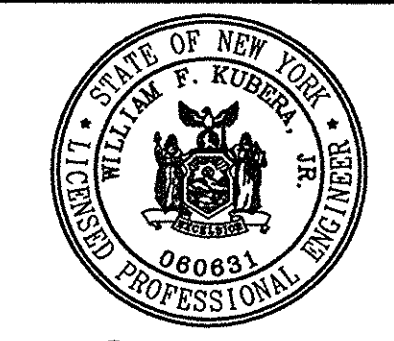
SECTION C-C

Scale: 1:50

NOTES:

- EXISTING ABUTMENT AND WINGWALL FOOTINGS AND EXISTING PILES ARE TO REMAIN IN PLACE.
- EXISTING SHOULDER DEPTH IS UNKNOWN.

ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE NOTED.
ALL ELEVATIONS ARE SHOWN IN METERS.

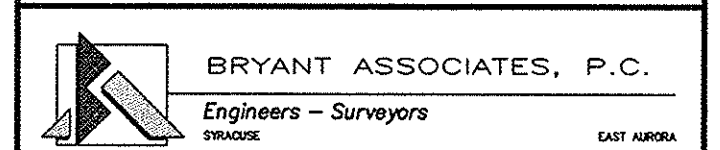


William F. Kubera, Jr., P.E.
3-26-98
Date

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS



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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
**SENECA - MP 317.46
GRAVEL ROAD**

TITLE OF DRAWING
**EXCAVATION & EMBANKMENT
- SECTIONS -**

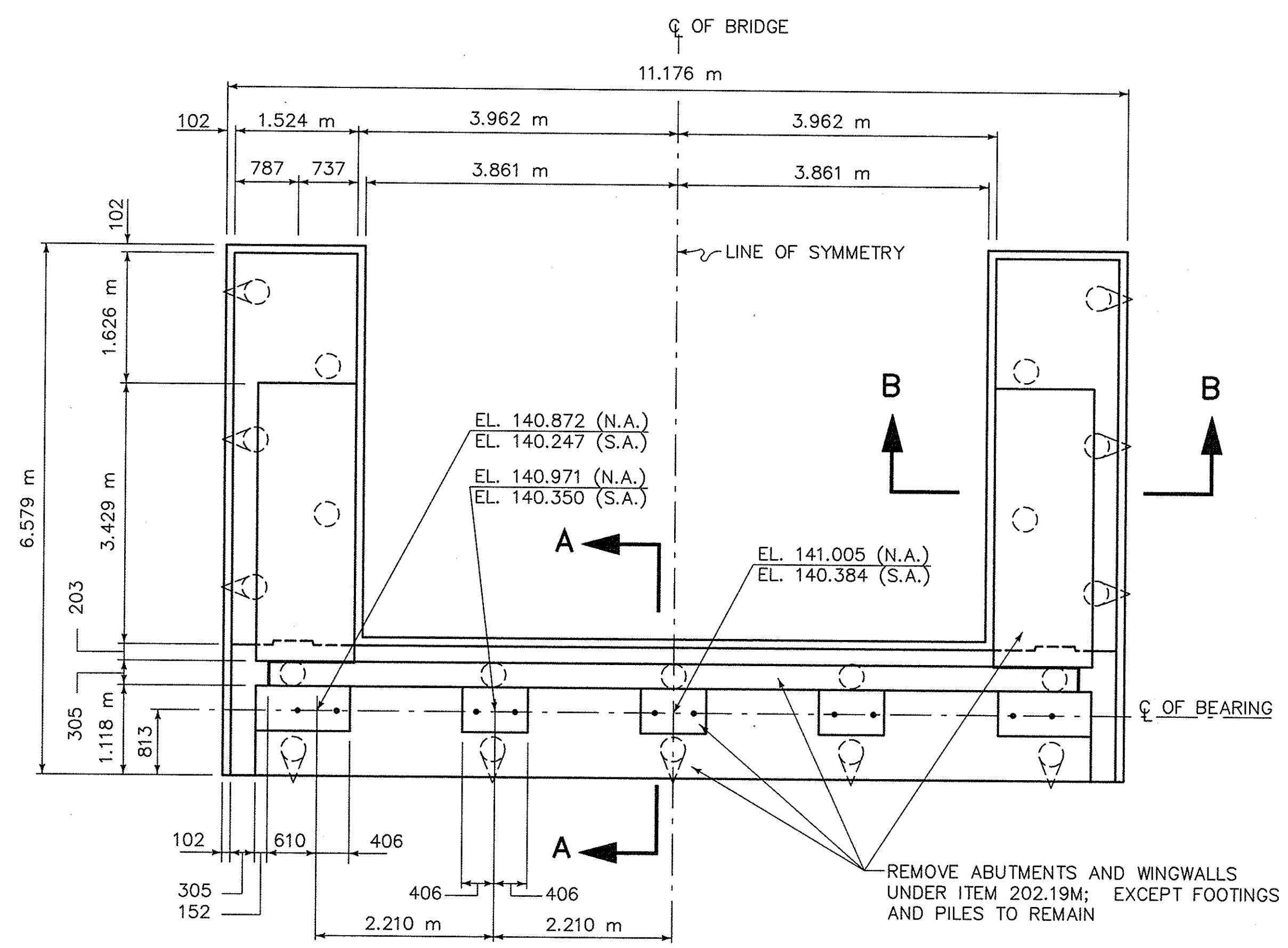
CONTRACT NUMBER: TAS 98-8B
DATE: MAR. 1998
DRAWING NUMBER: A7

CHECKED BY: Wayne A. Frye

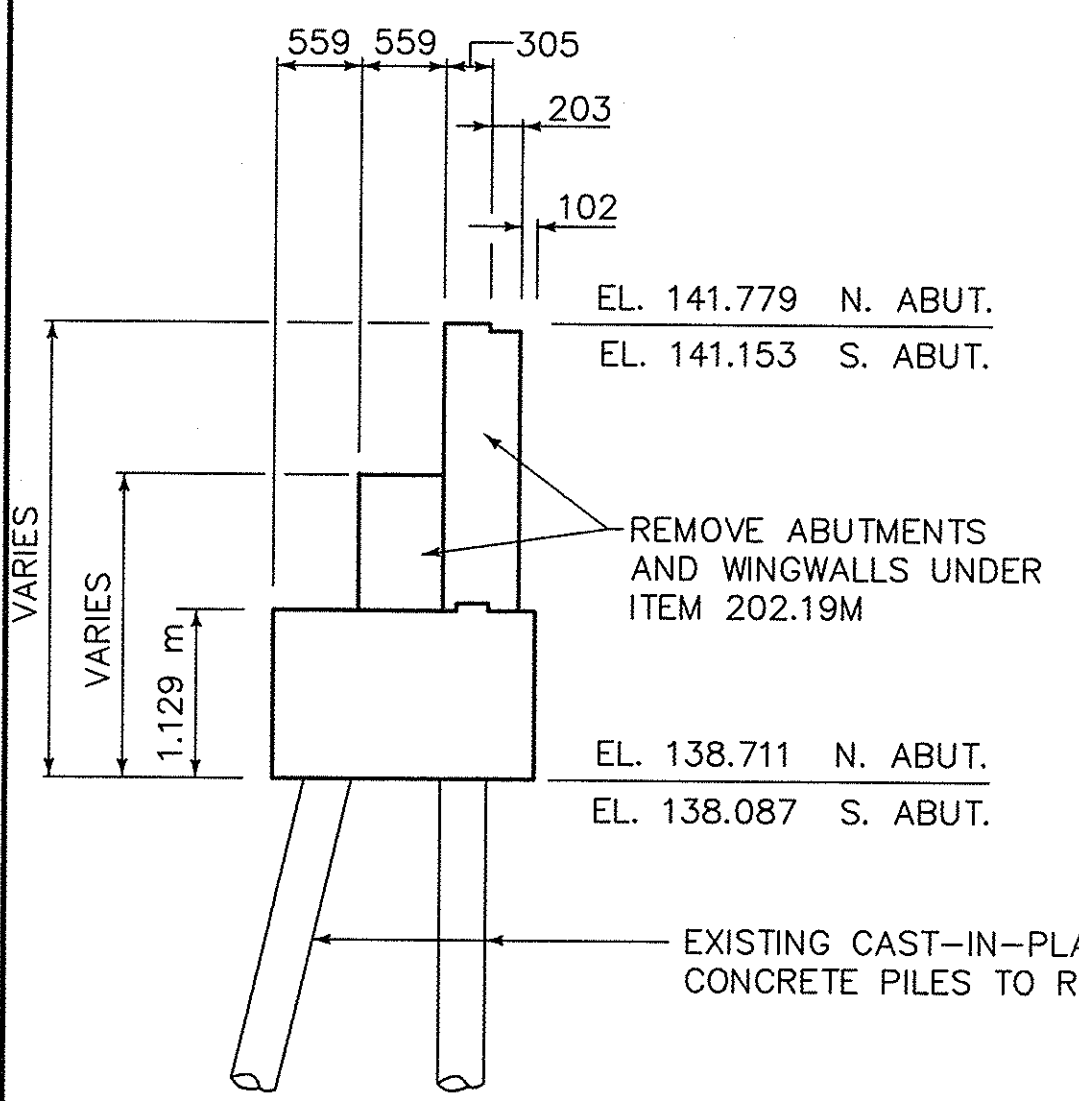
DRAFTED BY: Elizabeth A. O'Hall

DESIGNED BY: Elizabeth A. O'Hall

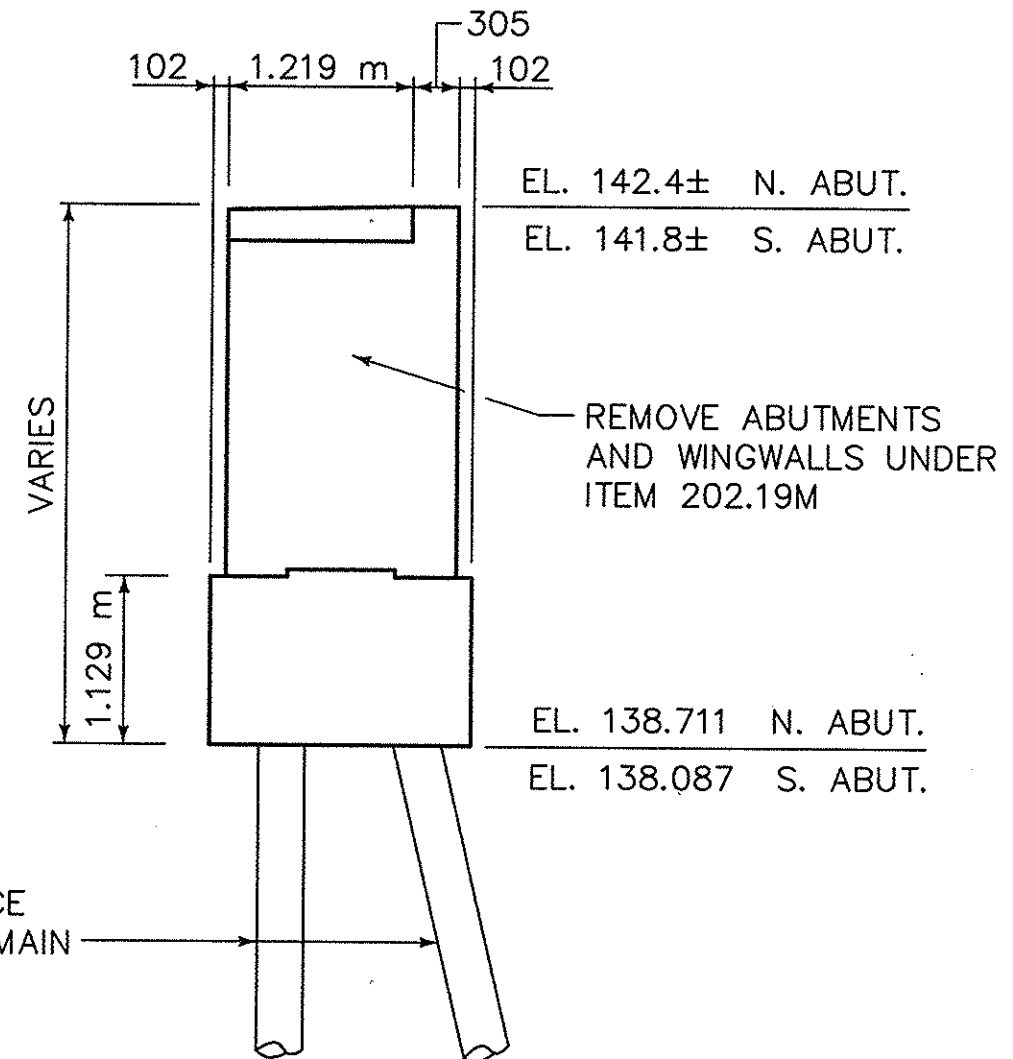
IN CHARGE OF: Andrew D. Mielke
B77052.DWG/PS&E/A08.DWG 03-25-1998



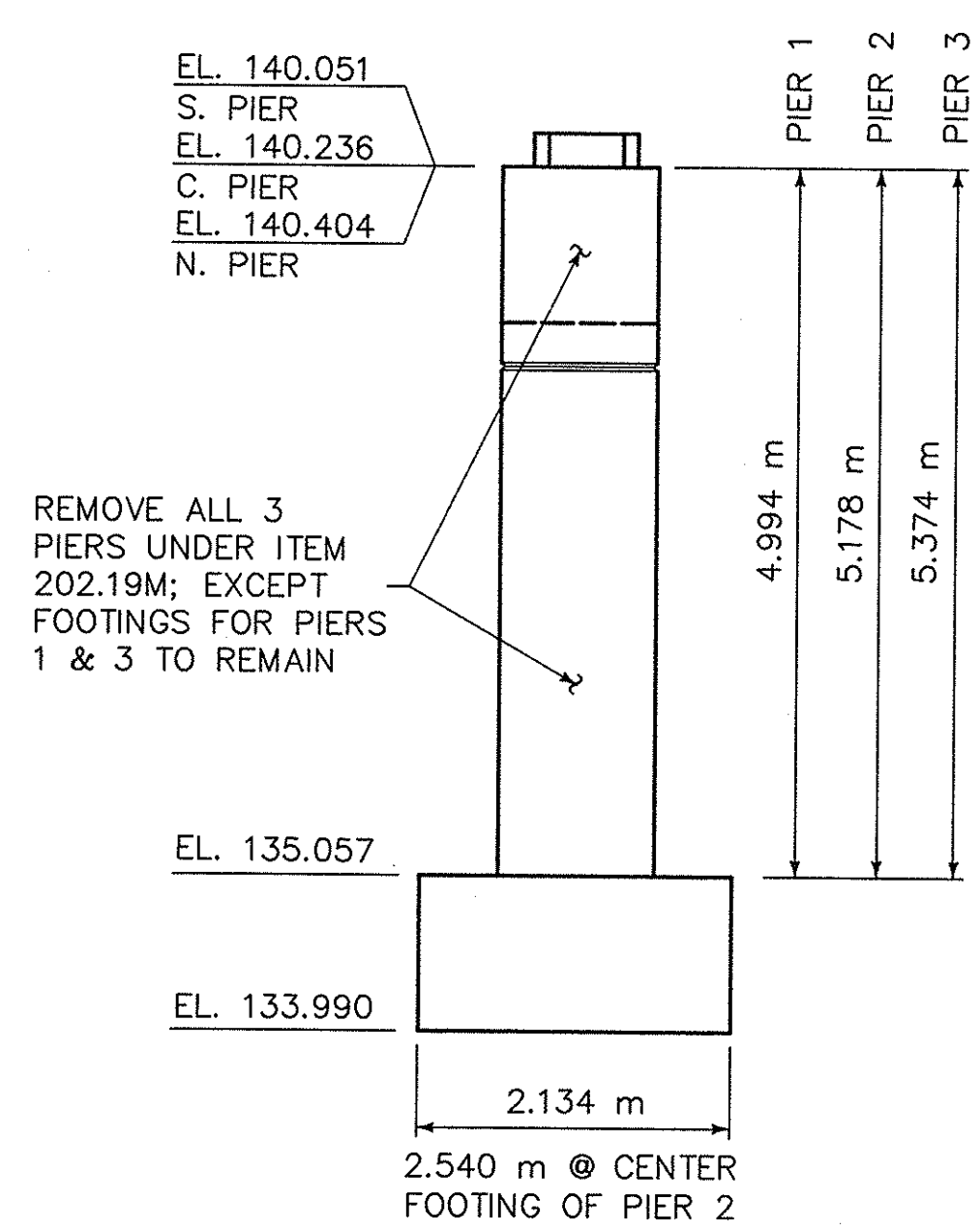
TYPICAL ABUTMENT PLAN
SCALE = 1 : 50



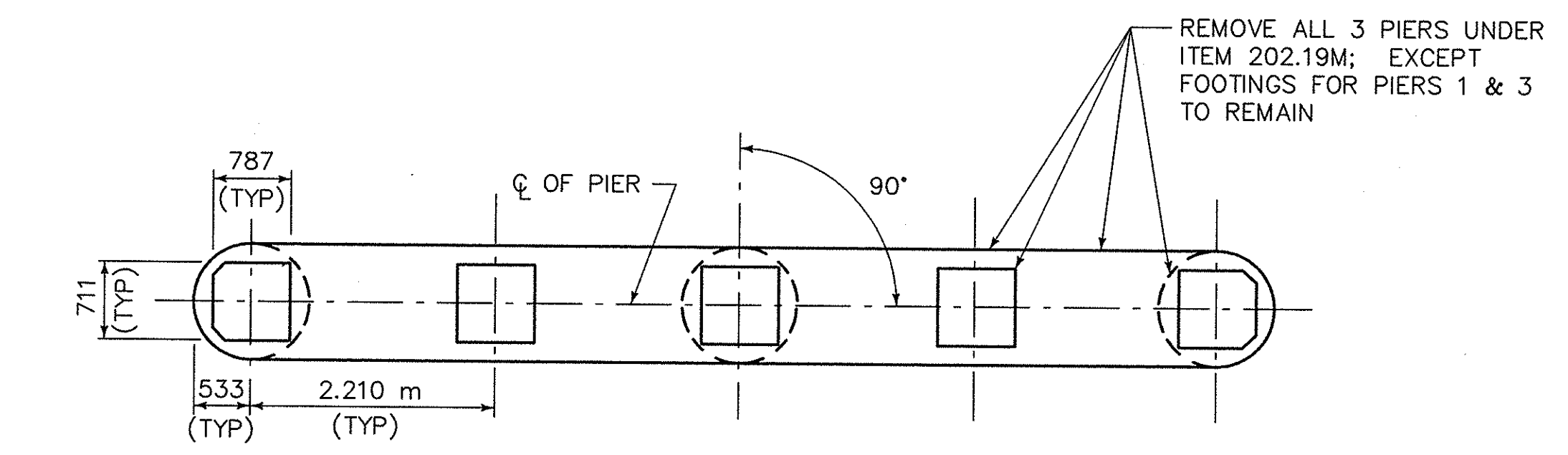
SECTION A-A
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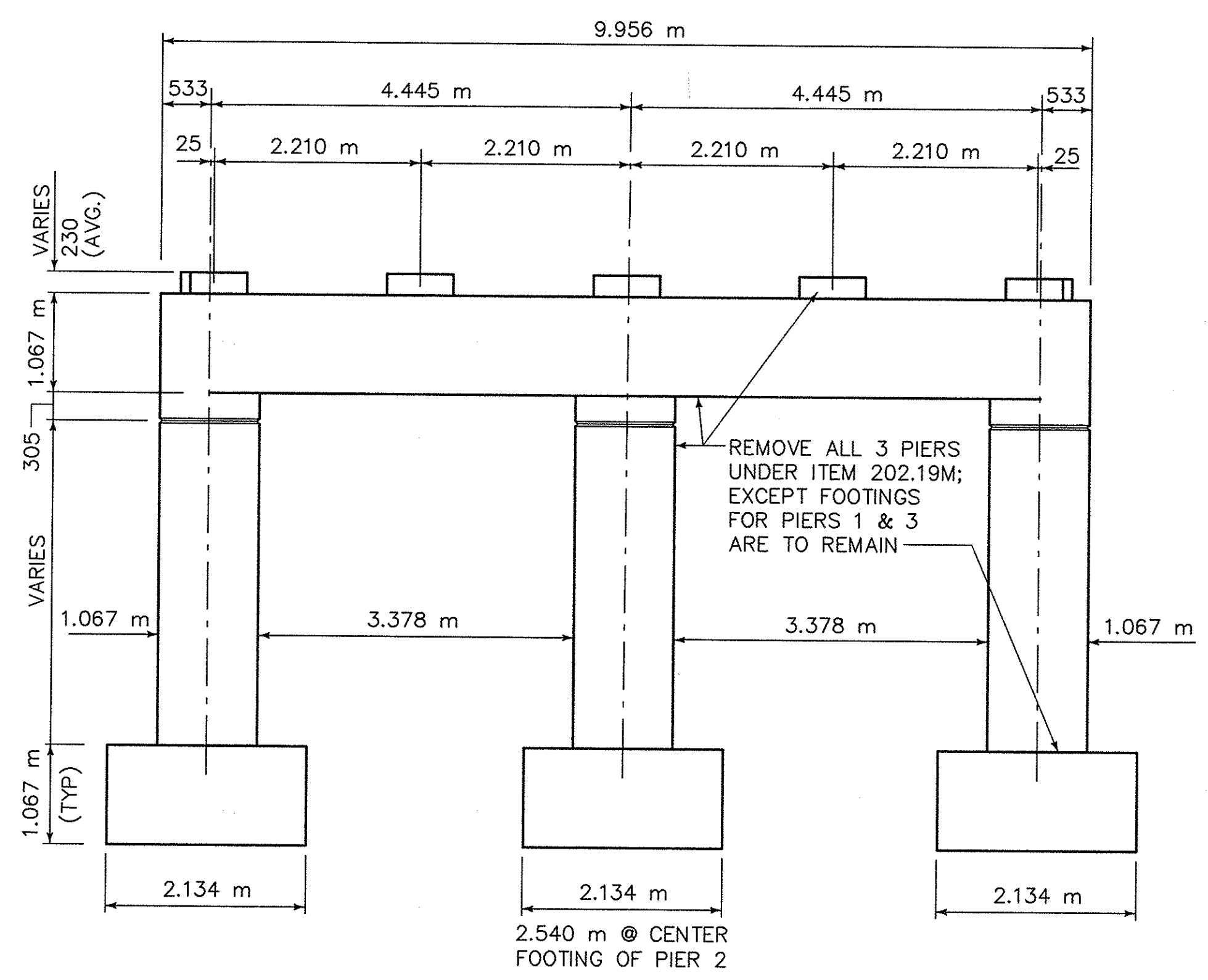
SECTION B-B
SCALE = 1 : 50



TYPICAL PIER
END ELEVATION
SCALE = 1 : 50



TYPICAL PIER PLAN
SCALE = 1 : 50



TYPICAL PIER
SIDE ELEVATION
SCALE = 1 : 50

NOTE: ALL DIMENSIONS ARE SHOWN
IN MILLIMETERS UNLESS OTHERWISE
NOTED. ALL ELEVATIONS ARE SHOWN
IN METERS.

STATE OF NEW YORK
WILLIAM F. KUBERA, JR.
06083
PROFESSIONAL ENGINEER
Date 3-26-98
William F. Kubera, Jr., P.E.

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

BRYANT ASSOCIATES, P.C.
Engineers - Surveyors
SILVER SPRING, MARYLAND

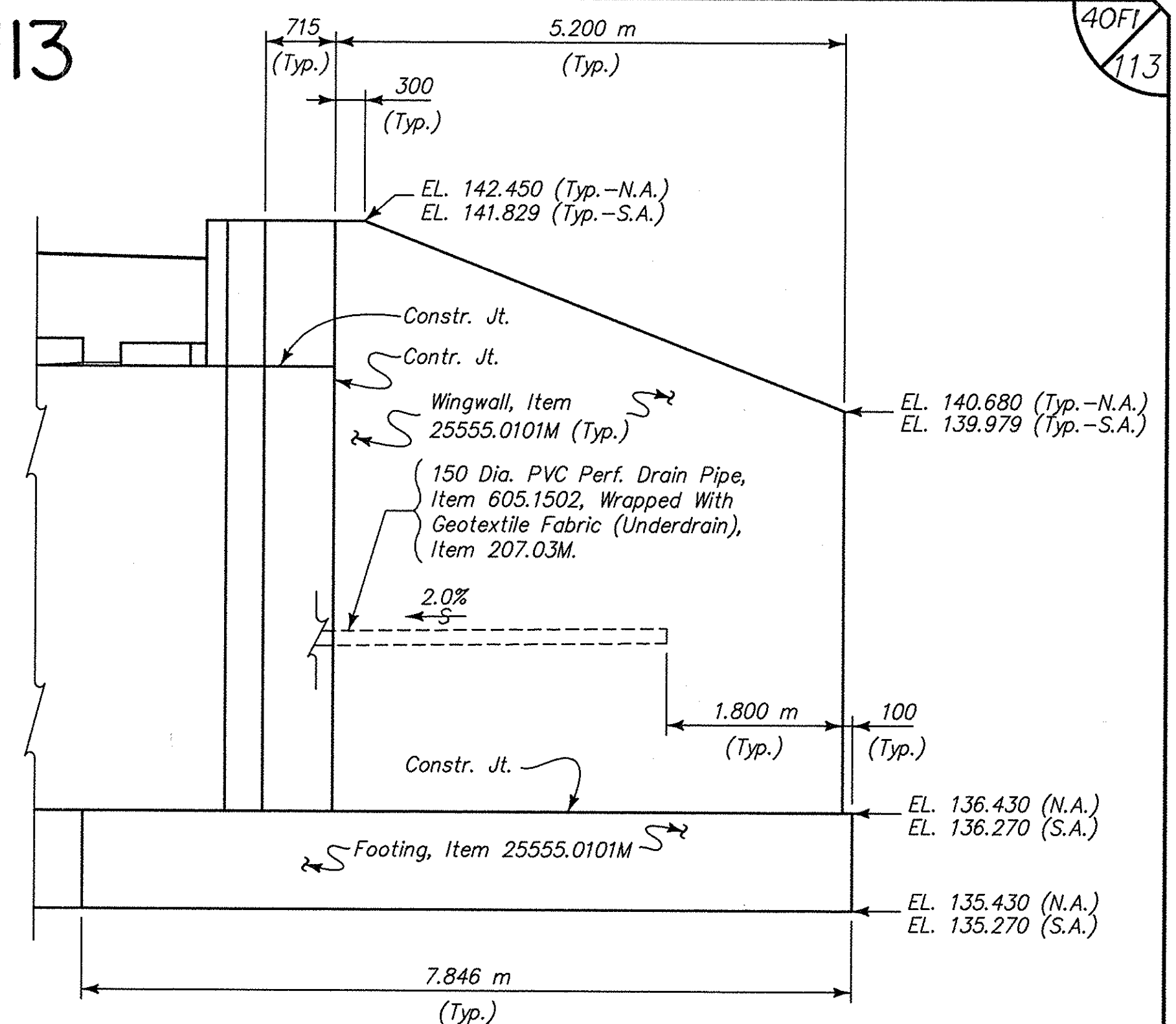
NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF MAINTENANCE AND ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA - MP 317.46
GRAVEL ROAD

TITLE OF DRAWING
EXISTING SUBSTRUCTURES
- REMOVALS -

CONTRACT NUMBER:
TAS 98-8B
DATE:
MAR. 1998
DRAWING NUMBER:
A8



Scale: 1:50

GENERAL NOTES:

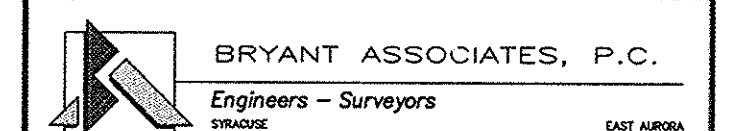
1. ALL STRUCTURAL CONCRETE SHALL BE PAID FOR UNDER ITEM 25555.0101M, CONCRETE FOR STRUCTURES, CLASS HP.
2. ALL EXPOSED EDGES OF ABUTMENTS AND WINGWALLS SHALL BE CHAMFERED 25 mm.
3. ALL DIMENSIONS ARE SHOWN IN MILLIMETERS, UNLESS OTHERWISE NOTED.
4. ALL ELEVATIONS ARE SHOWN IN METERS.
5. THE CONTRACTOR, WITH THE APPROVAL OF THE CHIEF ENGINEER OR HIS DESIGNATED REPRESENTATIVES, MAY ELECT TO INTRODUCE CONSTRUCTION JOINTS IN THE ABUTMENT AT LOCATIONS NOT SHOWN ON THE PLANS. THESE CONSTRUCTION JOINTS SHALL BE PROVIDED WITH SHEAR KEYS AND WATERSTOPS. VERTICAL CONSTRUCTION JOINTS PLACED IN THE BACKWALL SHOULD PREFERABLY BE PLACED MIDWAY BETWEEN THE PEDESTALS.
6. PROTECTIVE SEALING OF STRUCTURAL CONCRETE, ITEM 25559.1696M, SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES OF THE SUBSTRUCTURES.
7. ALL FORMING HARDWARE SUCH AS TIES AND "ALL THREADS" THAT ARE TO REMAIN IN THE CONCRETE SHALL BE ELECTROPLATED OR MADE OF A NON-FERROUS MATERIAL TO PREVENT CORROSION.
8. THE PEDESTAL ELEVATIONS GIVEN ON THIS DRAWING MAY HAVE TO BE ADJUSTED TO ACCOMMODATE THE ACTUAL BEARINGS FURNISHED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE ANY CHANGES IN THE BEARINGS WHICH MAY AFFECT THE PEDESTAL ELEVATIONS.
9. EPOXY BONDING COMPOUND CONFORMING TO MATERIAL SPECIFICATION 721-03 SHALL BE APPLIED TO ALL CONSTRUCTION JOINTS PRIOR TO POURING NEW CONCRETE. ALL COSTS ASSOCIATED WITH APPLYING THIS COMPOUND SHALL BE INCLUDED IN THE CONCRETE ITEMS.
10. THE FOOTING FOR THE ABUTMENT IS DESIGNED TO EXERT A MAXIMUM FOUNDATION PRESSURE OF 240 kpa.

LEGEND	
N.F.	NEAR FACE
F.F.	FAR FACE
E.F.	EACH FACE
N.A.	NORTH ABUT.
S.A.	SOUTH ABUT.

NOAS-BUILT REVISIONS

1/24/00	<i>Kief</i>		
4/14/98	ELEVATION CORRECTIONS	P. E. PROVOST P.E.	①
DATE	DESCRIPTION	BY	SYM.

REVISIONS



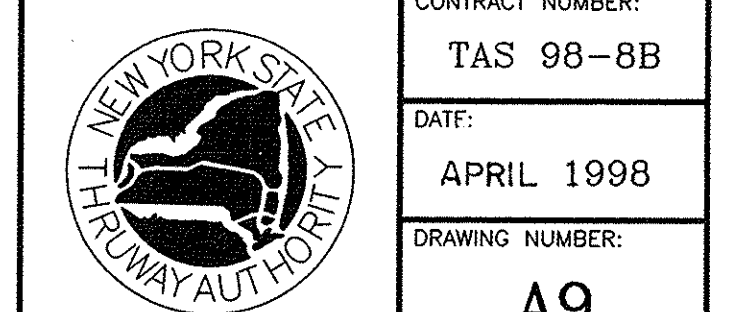
NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF MAINTENANCE AND ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA - MP 317.46
GRAVEL ROAD

TITLE OF DRAWING

ABUTMENT
PLAN & ELEVATION



CONTRACT NUMBER:
TAS 98-8B

DATE: APRIL 1998

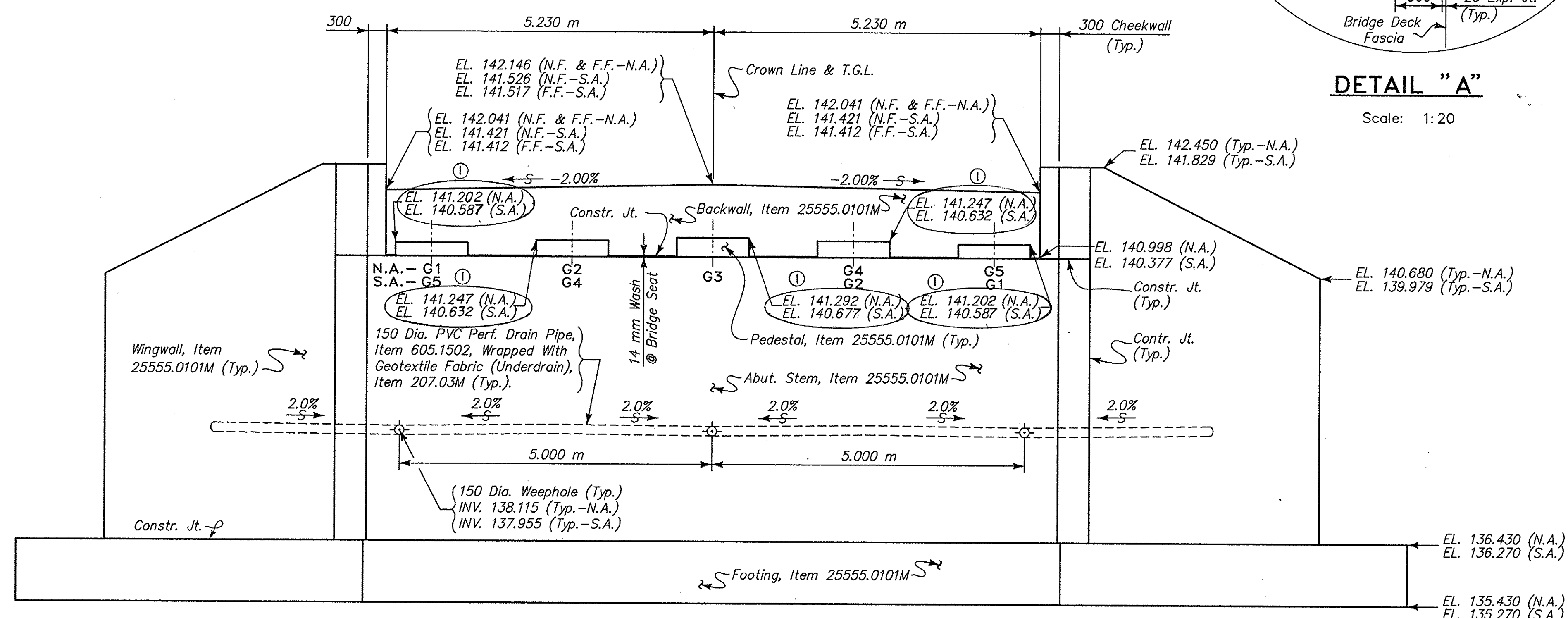
DRAWING NUMBER:

A9



William F. Kubera, Jr. 3-26-98
William F. Kubera, Jr., P.E. Date

Scale: 1:50




Scale: 1:50

CHECKED BY: Antonio R. Malakia

DRAFTED BY: Martin L. Wayson

DESIGNED BY: Wayne A. Frye / Martin L. Wayson

IN CHARGE OF: Antonio R. Malakia
BA7705.2\DWGS\PS&E\A09.DWG 03-25-1998

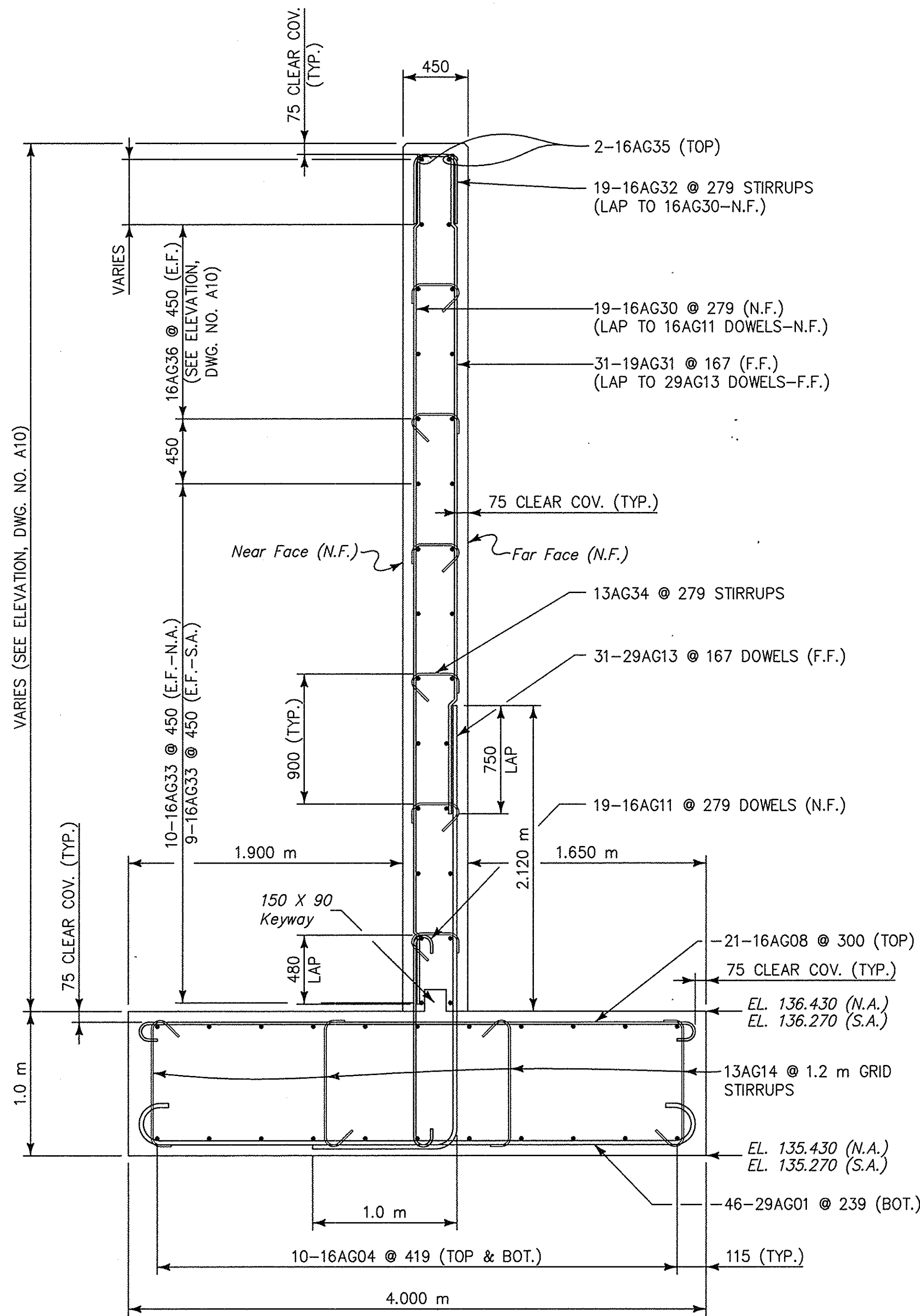
NOAS-BUILT REVISIONS			
[Handwritten: 12/100 KUP]			
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
BRYANT ASSOCIATES, P.C. Engineers - Surveyors <small>DRAWING EAST AUBURN</small>			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT SENECA — MP 317.46 GRAVEL ROAD			
TITLE OF DRAWING ABUTMENT REINFORCEMENT PLAN			
		CONTRACT NUMBER: TAS 98-8B	
		DATE: MAR. 1998	
		DRAWING NUMBER: A10	

CHECKED BY: Wayne A. Frye

DRAFTED BY: Martin L. Wagon

DESIGNED BY: Wayne A. Frye / Martin L. Wagon

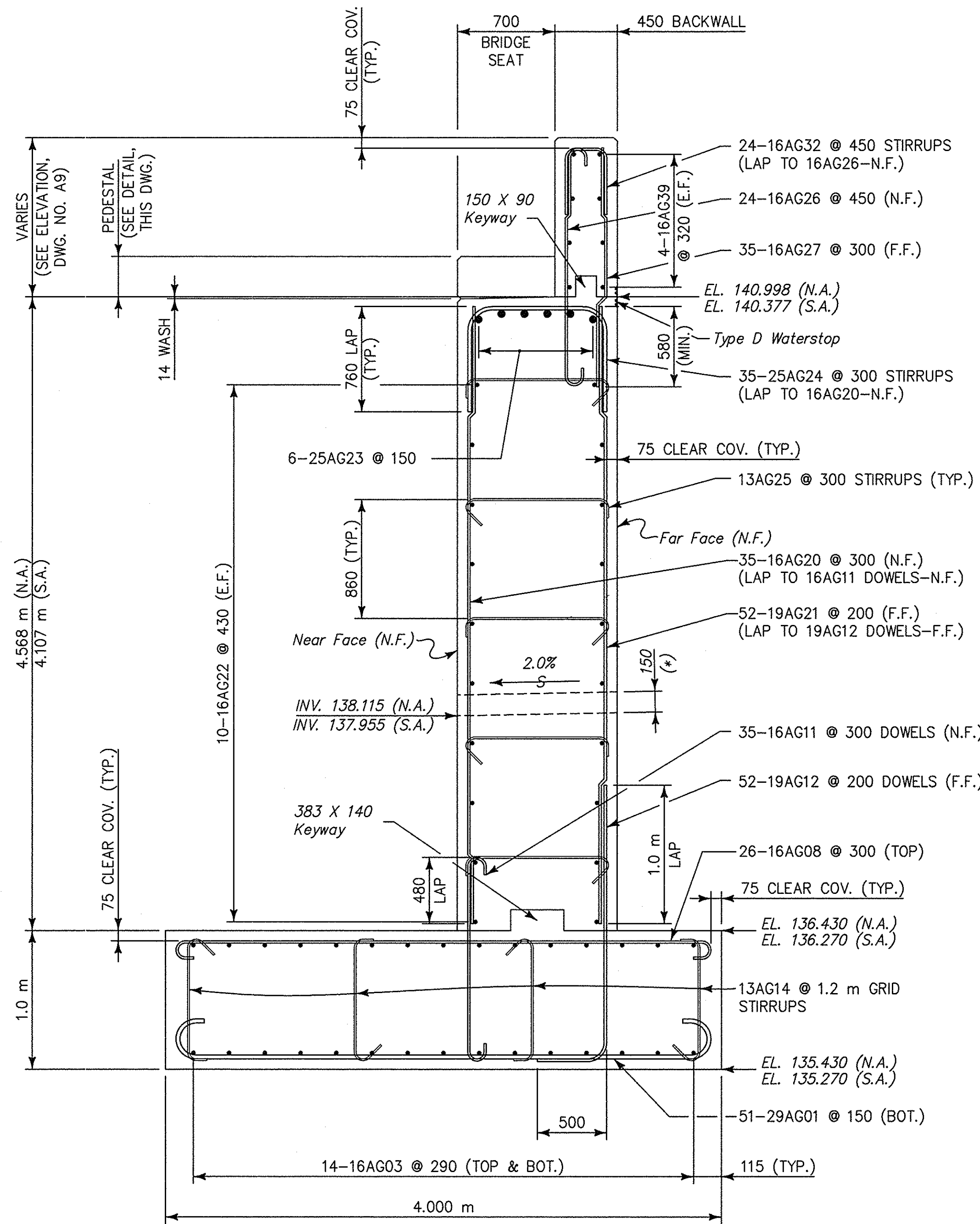
IN CHARGE OF: Anthony R. Modugno
587052 DWS/REVISION 03-23-1998



**TYPICAL WINGWALL
REINFORCEMENT SECTION**

Scale: 1:25

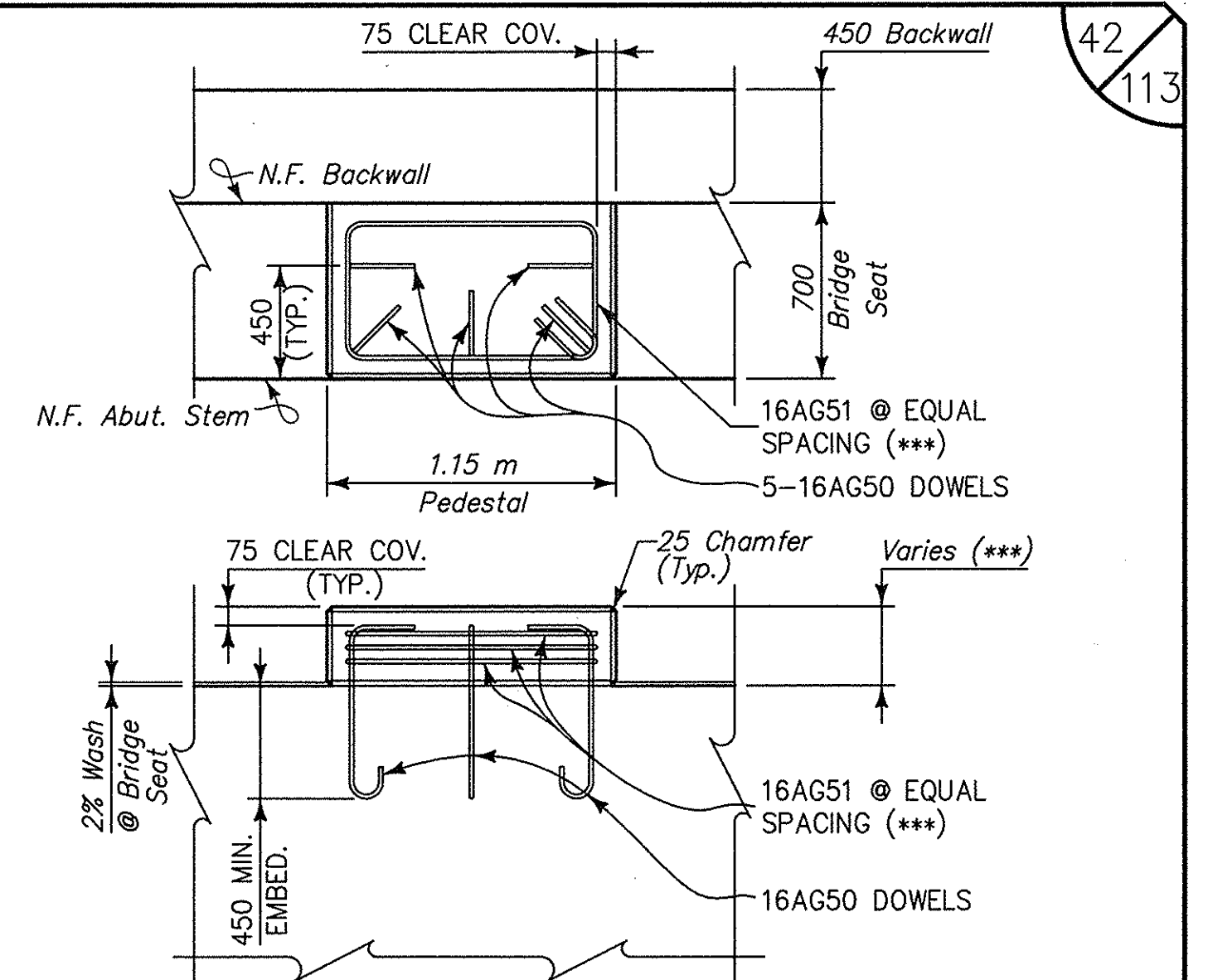
LEGEND	
N.F.	NEAR FACE
F.F.	FAR FACE
E.F.	EACH FACE
N.A.	NORTH ABUT.
S.A.	SOUTH ABUT.



**TYPICAL ABUTMENT &
BACKWALL REINFORCEMENT SECTION**

Scale: 1:25

- (*) FOR LOCATIONS OF WEEPHOLES, SEE ABUTMENT ELEVATION, DWG. NO. A9.
 (**) FOR GIRDER LOCATION AND NUMBERING, SEE ABUTMENT PLAN, DWG. NO. A9.
 (***) FOR HEIGHTS OF PEDESTALS AND THE NUMBER OF HORIZONTAL TIES (INCLUDING BAR MARKS AND SPACING), SEE TABLE, THIS SHEET.
 ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE NOTED.



PEDESTAL REINFORCEMENT DETAIL

Scale: 1:25

ABUTMENT PEDESTAL HEIGHT AND REINFORCEMENT TABLE		
PEDESTAL # LOCATION (**)	PEDESTAL HEIGHT	No. OF HORIZ. TIES & SPACING
G1 (S.A.) G5 (N.A.)	203	1-16AG51
G2 (S.A.) G4 (N.A.)	248	2-16AG51 @ 57
G3	293	3-16AG51 @ 71
G4 (S.A.) G2 (N.A.)	248	2-16AG51 @ 57
G5 (S.A.) G1 (N.A.)	203	1-16AG51

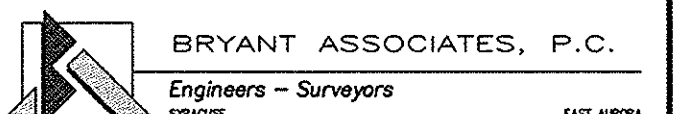
NOTES:

- FOR ELEVATIONS OF PEDESTALS, SEE ABUTMENT ELEVATION, DWG. NO. A9.
- ALL ELEVATIONS SHOWN ARE IN METERS, UNLESS OTHERWISE NOTED.
- FOR ABUTMENT ANCHOR BOLT AND BEARING DETAILS, SEE DWG. NO. A12.

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.
12/10	Kup		

REVISIONS



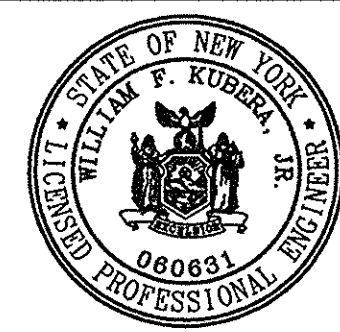
NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF MAINTENANCE AND ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
**SENECA - MP 317.46
GRAVEL ROAD**

TITLE OF DRAWING
**MISCELLANEOUS
ABUTMENT DETAILS**

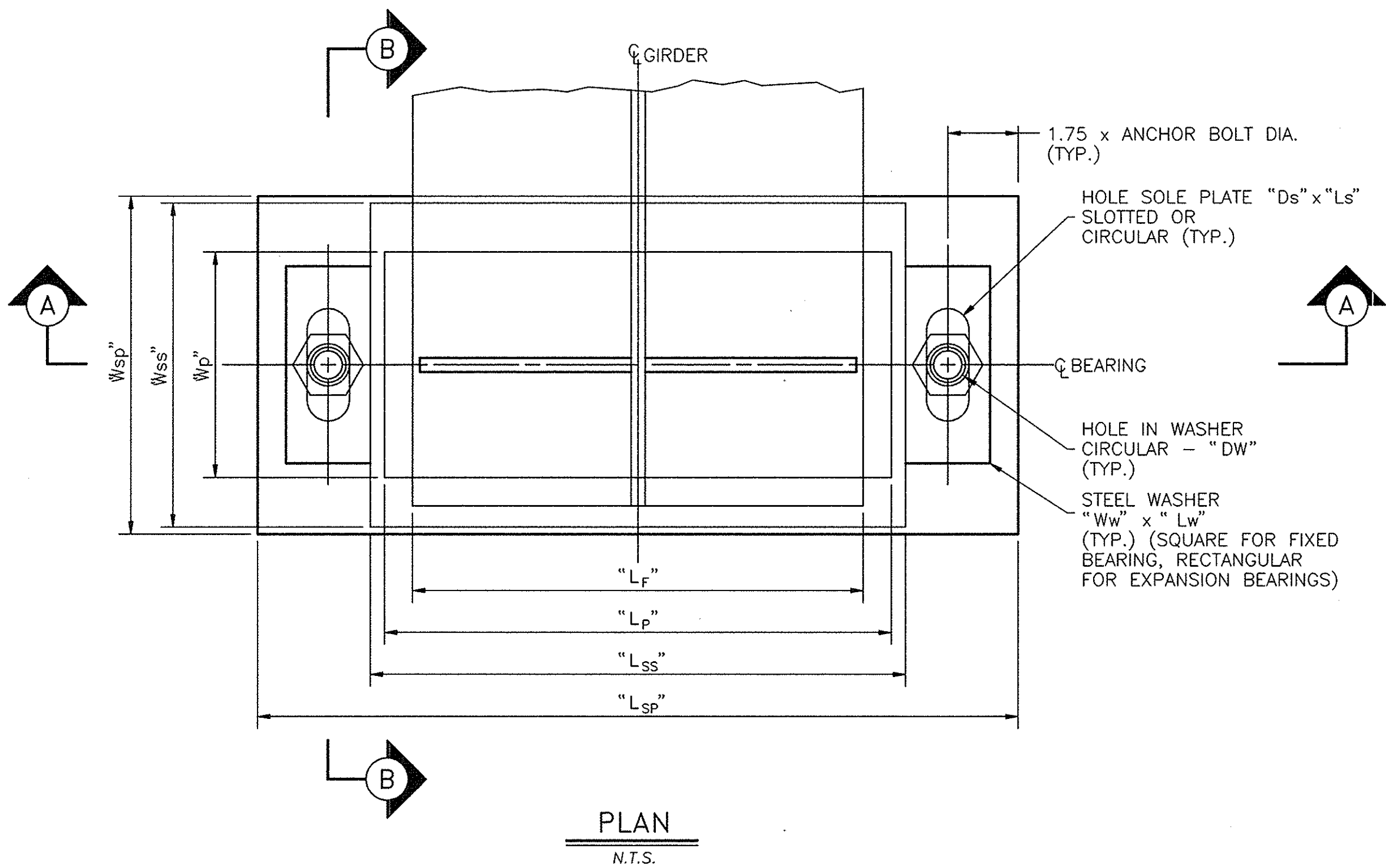
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	DATE: MAR. 1998
	DRAWING NUMBER: A11



William F. Kubera, Jr., P.E. 3-26-98
Date

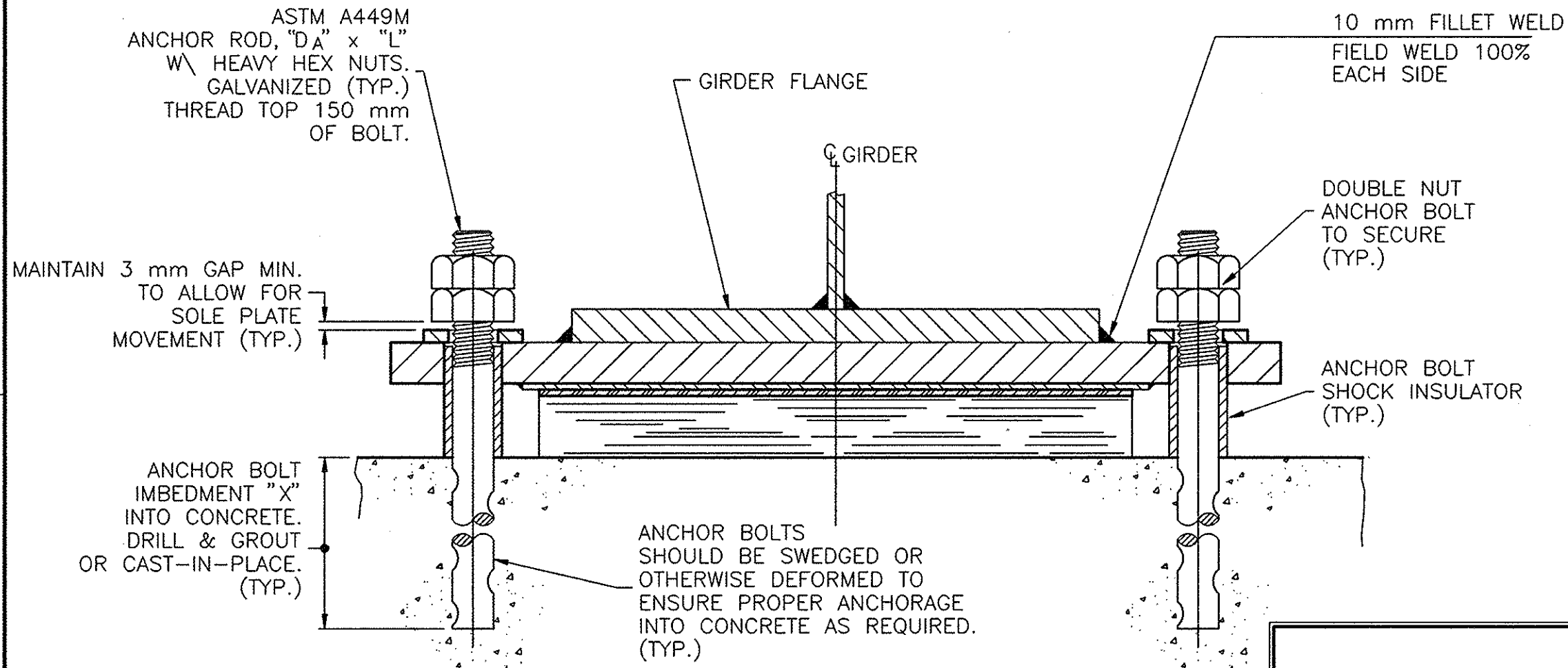
EXPANSION BEARING DEVICE NOTES:

1. THE EXPANSION BEARINGS SHALL CONFORM TO THE SPECIFICATION FOR ITEM 25565.220301M.
2. ALL EXPANSION BEARINGS SHALL BE PAID FOR UNDER ITEM 25565.2203M, PREFORMED FABRIC BEARING. THE CONTRACTOR SHALL SUPPLY PREFORMED FABRIC BEARINGS CONFORMING TO THE REQUIREMENTS OF THE BEARING ITEM AND THIS SHEET.
3. SHOP DRAWINGS SHALL BE SUBMITTED AND SHALL INCLUDE WELDING AND BONDING PROCEDURES.
4. THE CONCRETE SURFACE UNDER THE BEARING SHALL BE LEVEL.
5. ANCHOR BOLTS AND NUTS SHALL BE GALVANIZED IN CONFORMANCE WITH SECTION 719-01 OF THE NEW YORK STATE STANDARD SPECIFICATIONS. THE COST OF GALVANIZING THE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.
6. THE SOLE PLATE AND PLATE WASHERS SHALL BE METALIZED AS PER ITEM 25570.69M OR GALVANIZED (MANUFACTURE'S PREFERENCE). THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR BEARING ITEM.
7. THE FIELD WELD CONNECTING THE BOTTOM FLANGE TO THE SOLE PLATE SHALL BE MADE ON BOTH SIDES OF THE FLANGE. AREAS OF METALIZING OR GALVANIZING DAMAGED BY WELDING SHALL BE COATED WITH ZINC RICH PAINT AS PER SECTION 719-01.
8. ALTERNATE BEARING CONFIGURATIONS MAY BE SUBMITTED FOR APPROVAL. ANY ALTERNATE SUBMITTED SHALL BE DESIGNED AND CERTIFIED TO MEET THE DESIGN LOADS AND CRITERIA SHOWN ON THIS SHEET AND SHALL MAINTAIN THE ANCHORAGE SYSTEM SHOWN.
9. ANY ADJUSTMENT IN ELEVATION NECESSARY TO ACCOMMODATE THE ACTUAL BEARING THAT IS SUPPLIED SHALL BE MADE BY CHANGING THE TOP OF THE PEDESTAL ELEVATIONS. THE MINIMUM PEDESTAL HEIGHT ALLOWED WILL BE 150 mm. NO CHANGE IN BRIDGE SEAT ELEVATION WILL BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE C.E.E.S.
10. DESIGN CRITERIA:
 - A. PAD TO CONCRETE DESIGN PRESSURE = 6067 kPa MAXIMUM.
 - B. MINIMUM ALLOWABLE PAD DESIGN ROTATION = 0.015 RADIANS.
 - C. HORIZONTAL CAPACITY OF PAD SHALL BE A MINIMUM OF 10% OF THE VERTICAL DESIGN LOAD.
 - D. HORIZONTAL CAPACITY OF BEARING CONNECTIONS SHALL BE A MINIMUM OF 19% OF VERTICAL DESIGN LOAD.
 - E. MINIMUM VERTICAL DESIGN LOAD = 620 kN.
 - F. THE MAXIMUM COEFFICIENT OF STATIC FRICTION BETWEEN THE STAINLESS STEEL AND THE PTFE SURFACE IS 0.06.
11. STEEL FOR BEARINGS SHALL BE AASHTO M270 GR345 UNLESS OTHERWISE NOTED.
12. THE PREFORMED FABRIC PAD SHALL BE CENTERED BETWEEN ANCHOR BOLTS REGARDLESS OF TEMPERATURE. THE SOLE PLATE AT THE EXPANSION BEARING SHALL BE SET ACCORDING TO THE BEARING SETTING TABLE AT LEFT PRIOR TO WELDING TO THE BOTTOM FLANGE.
13. IF THE ANCHOR BOLTS ARE TO BE DRILLED & GROUTED INTO THE CONCRETE, THE COST FOR THIS WORK SHALL BE INCLUDED UNDER THE UNIT PRICE BID FOR THE BEARING ITEM.

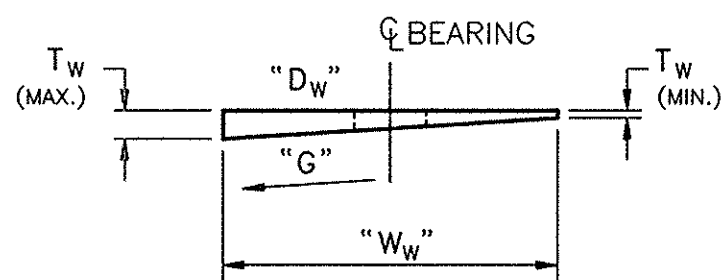
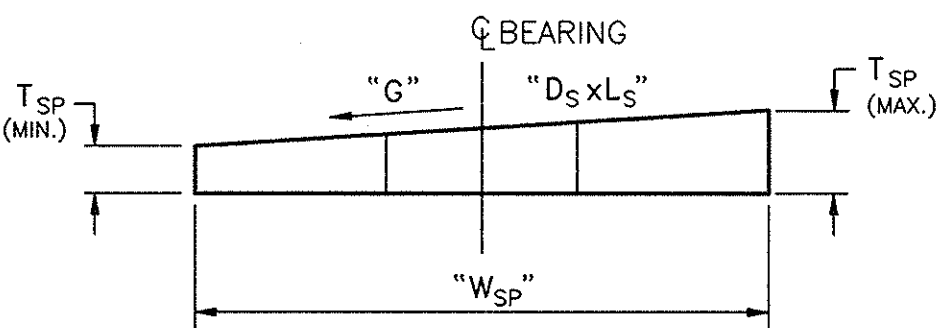
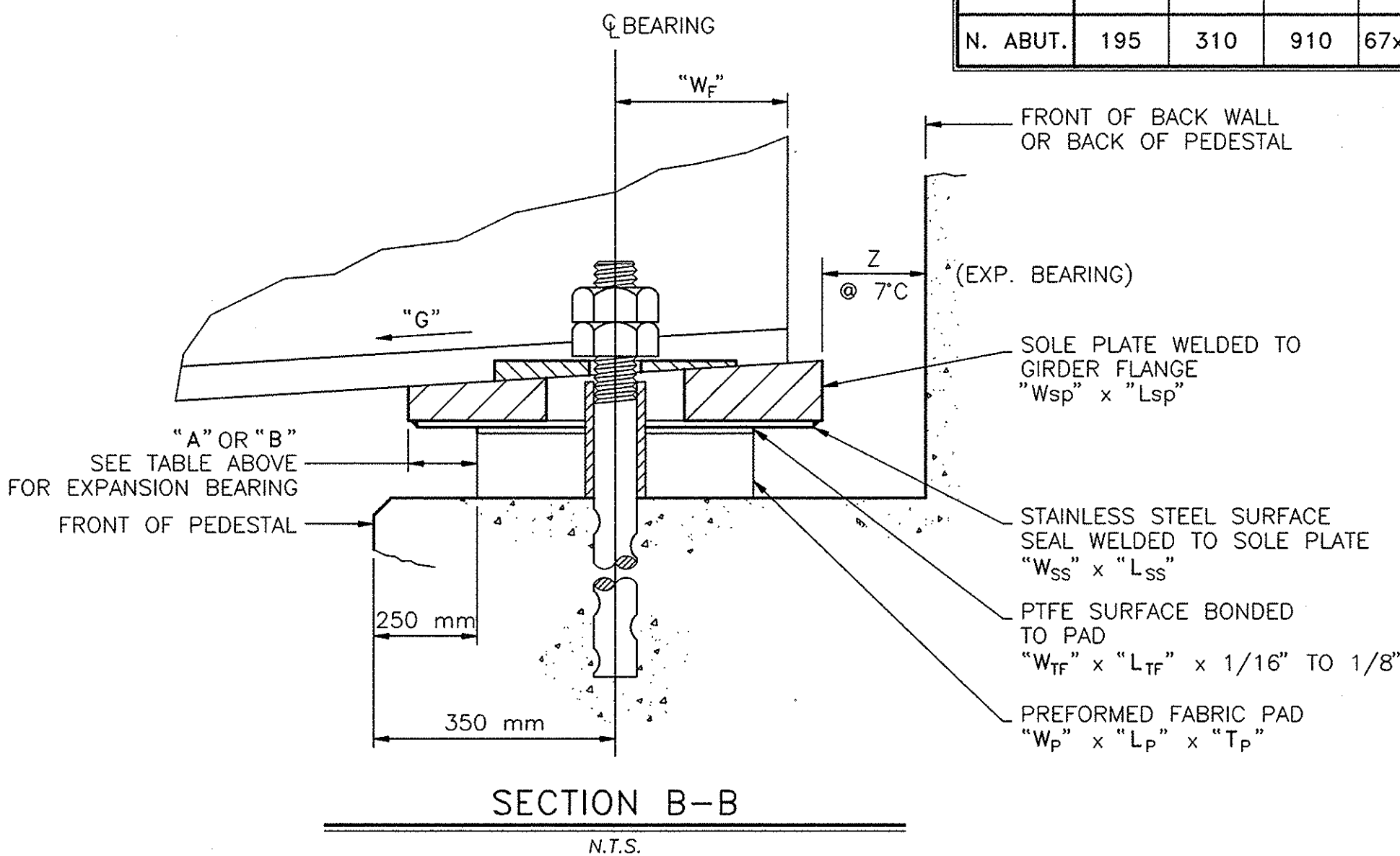


EXPANSION BEARING SETTING TABLE					
TEMP. (C°)	ΔO MEAN	TEMP. CORR.(mm)	"A"	ELONG. CORR.(mm)	"B"
49°	24°	-15	48	-8	40
41°	16°	-12	51	-8	43
32°	7°	-9	54	-8	46
24°	-1°	-6	57	-8	49
16°	-9°	-3	60	-8	52
MEAN 7°	-	-	63	-8	55
-1°	-9°	3	66	-8	58
-9°	-1°	6	69	-8	61
-18°	7°	9	72	-8	64
-26°	16°	12	75	-8	67
-34°	24°	15	78	-8	70

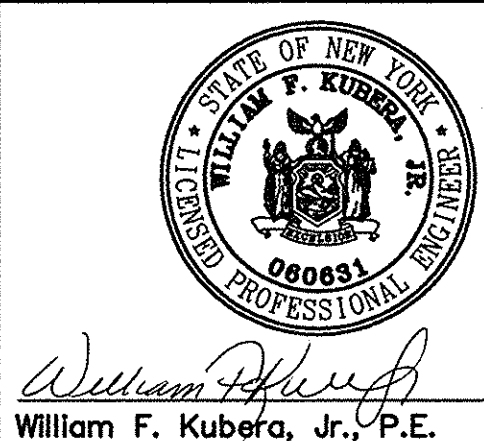
- "A" = DISTANCE FROM FRONT EDGE OF PAD TO FRONT EDGE OF SOLE PLATE WITH BEAM AND DIAPHRAGM LOAD ON BEAM.
- "B" = DISTANCE FROM FRONT EDGE OF PAD TO FRONT EDGE OF SOLE PLATE WITH ALL DEAD AND SUPERIMPOSED DEAD LOADS ON BEAM.
- ELONGATION IS DUE TO DEFLECTION.
- DEFLECTION IS DUE TO D.L. & S.D.L. EXCLUDING BEAM & DIAPHRAGM LOADS.



BEARING DIMENSION TABLE																										
SOLE PLATE						STAINLESS STEEL SURFACE		PTFE SURFACE		PREFORMED FABRIC PAD			ANCHOR BOLTS				WASHERS					GIRDER FLANGE				
Z	W _{SP}	L _{SP}	D _S x L _S	T _{SP} (MIN.)	T _{SP} (MAX.)	W _{SS}	L _{SS}	W _{TF}	L _{TF}	W _P	L _P	T _P	D _A	L	X	GAP	W _W	L _W	D _W	T _W (MIN.)	T _W (MAX.)	W _F	L _F	G	SKEW ANGLE	
S. ABUT.	195	310	910	67x115	25	31	285	535	200	510	200	510	40	57	604	380	3	115	185	67	9	13	225	406	2.0%	0°
N. ABUT.	195	310	910	67x115	25	25	285	535	200	510	200	510	40	57	604	380	3	115	185	67	9	9	225	406	0%	0°



NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.



NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.
12/10	KUP		

REVISIONS

BRYANT ASSOCIATES, P.C.
Engineers - Surveyors
STATE OF NEW YORK
EAST AURORA

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA - MP 317.46 GRAVEL ROAD

TITLE OF DRAWING
PREFORMED FABRIC BEARING DETAILS

CONTRACT NUMBER:
TAS 98-8B

DATE:
MAR. 1998

DRAWING NUMBER:
A12

CHECKED BY: Andrius R. Mielnicki

DRAFTED BY: Wayne A. Ego

DESIGNED BY: Wayne A. Ego

IN CHARGE OF Andrius R. Mielnicki
BA7785Z UNSS F364A12.DWG 03-25-1998

MULTI-ROTATIONAL BEARING DEVICE NOTES:

FIXED BEARING INSTALLATION AND ALIGNMENT: THE CENTERLINE OF THE SOLE PLATES OR OTHER FIXED PORTIONS OF BEARING ASSEMBLIES ATTACHED TO THE STRUCTURAL STEEL SHALL NOT BE OFFSET FROM THE CENTERLINE OF BEARING STIFFENERS OR DIAPHRAGM CONNECTION PLATES BY MORE THAN ONE-HALF THE THICKNESS OF THE FLANGE AT THAT LOCATION, OR THE THICKNESS OF THE BEARING STIFFENER, WHICHEVER IS LESSER. THE CONTRACTOR SHALL SUPPLY MULTI-ROTATIONAL BRIDGE BEARINGS CONFORMING TO THE REQUIREMENTS OF THE BEARING ITEM SHOWN AND SUBJECT TO THE FOLLOWING CONDITIONS:

1. THE BEARING DEVICES SUPPLIED SHALL BE CAPABLE OF TRANSMITTING THE LOADS AND MOVEMENTS SHOWN ON THESE PLANS.
2. THE HEIGHT OF THE BEARING BETWEEN THE BEVELED PLATE AND THE MASONRY PLATE REPRESENTS THE ASSUMED TOTAL HEIGHT OF THE BEARING MECHANISM USED BY THE DESIGNER TO ESTABLISH CONCRETE DIMENSIONS. THE CONTRACTOR SHALL RECOMPUTE ALL TOP OF PEDESTAL ELEVATIONS TO ACCURATELY REFLECT THE HEIGHT OF BEARINGS SUPPLIED.
3. THE MASONRY PLATES SHOWN HAVE BEEN DESIGNED TO SUIT TYPICAL BEARINGS FOR THE DESIGN LOADS AND MOVEMENTS SHOWN. THE ALLOWABLE CONCRETE BEARING STRESS SHALL BE

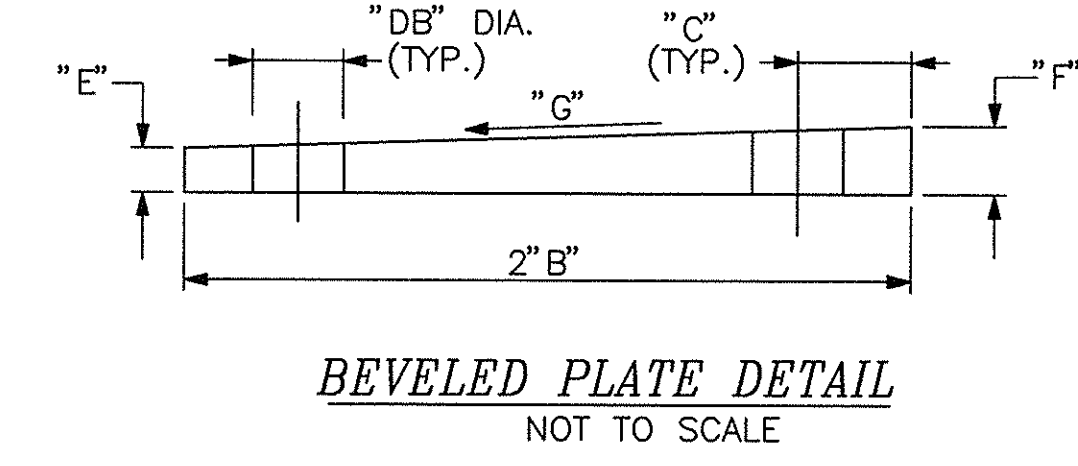
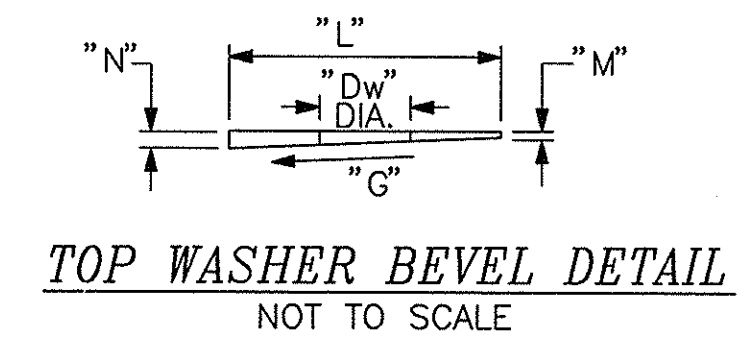
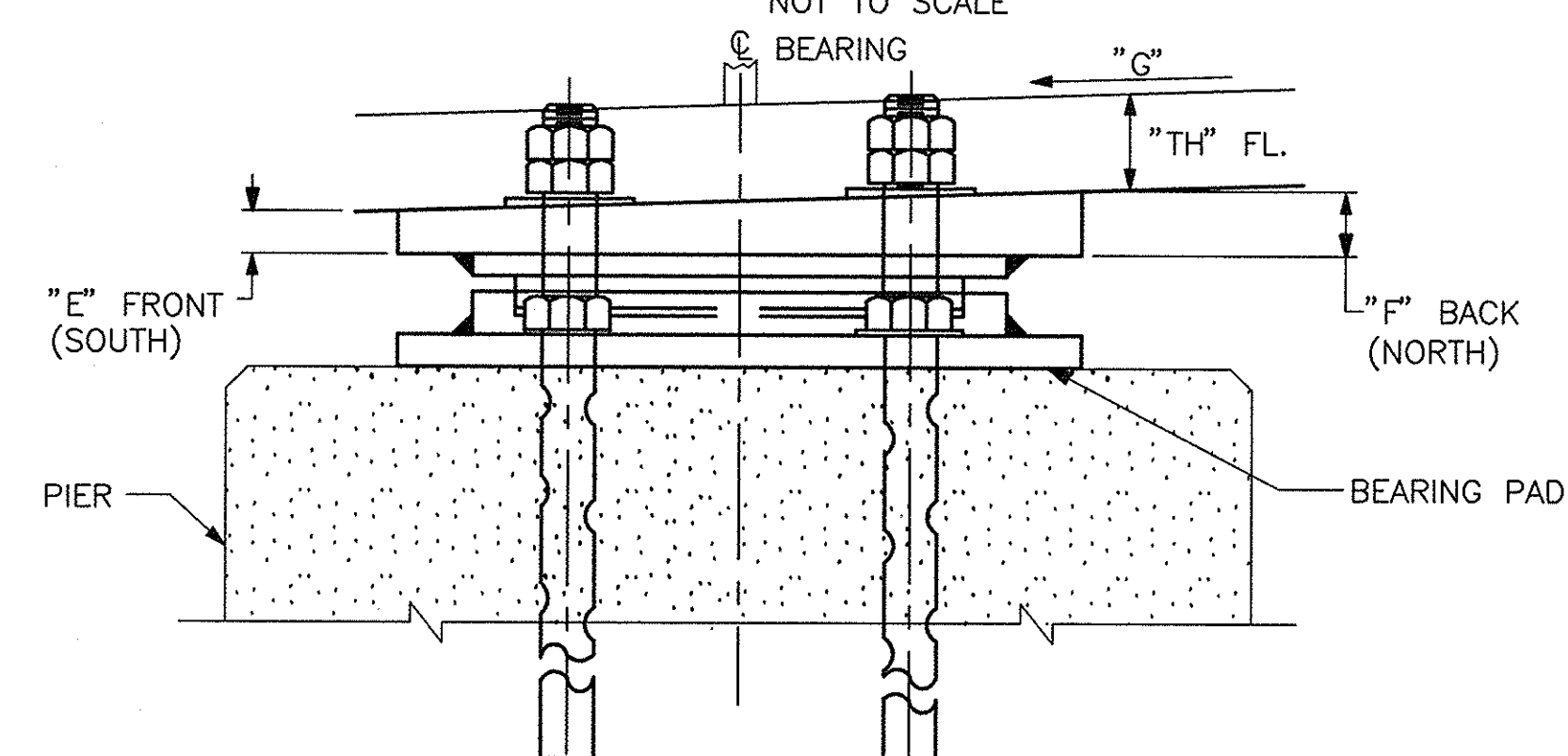
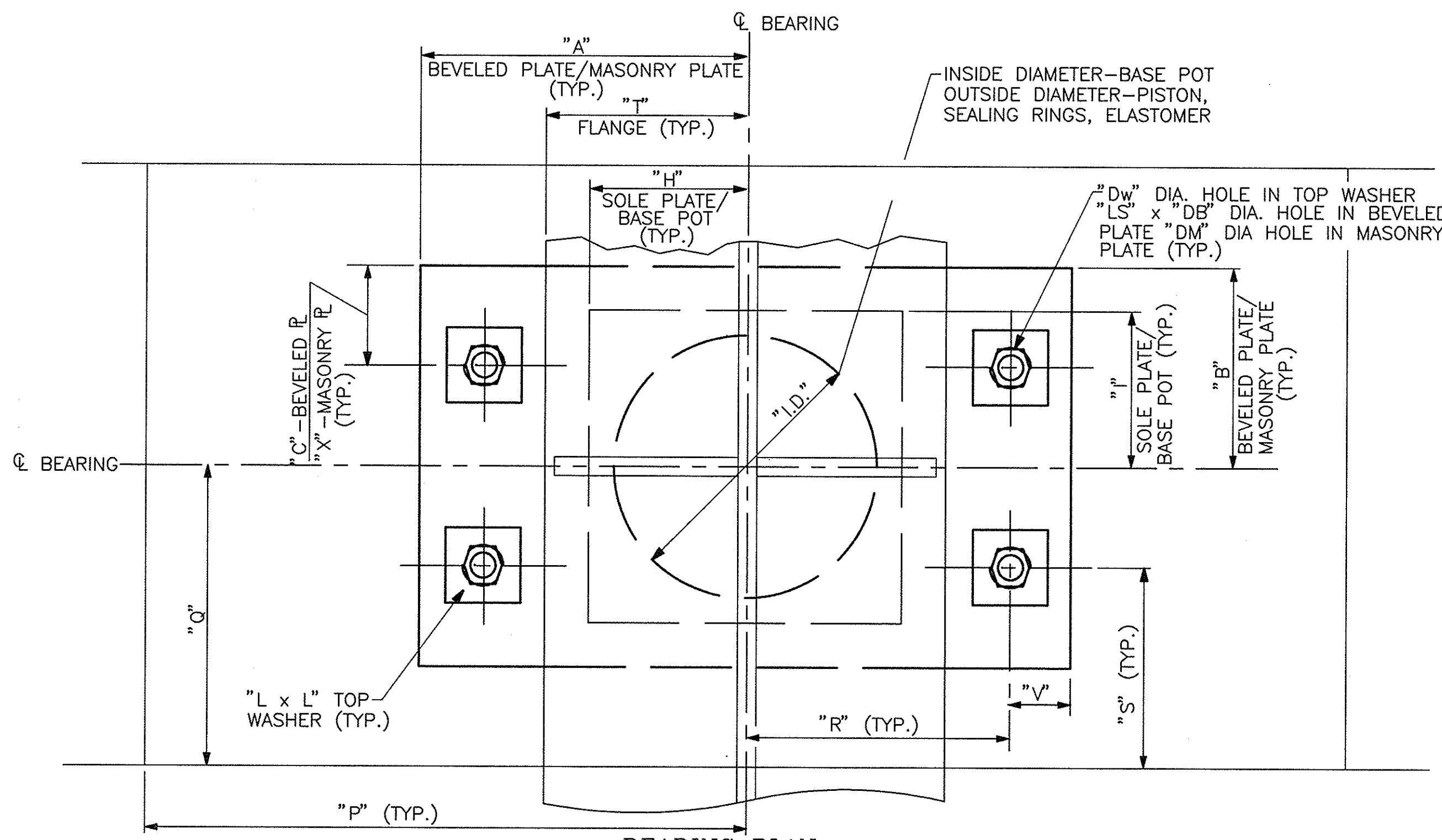
$$f_b \leq .30 f_c \sqrt{\frac{A_2}{A_1}}$$

WHERE f_b = BEARING STRESS ON THE LOADED CONCRETE AREA.
 A_2 = PLAN AREA OF CONCRETE PEDESTAL.
 A_1 = PLAN AREA OF STEEL MASONRY PLATE.

THE MAXIMUM CONCRETE BEARING STRESS SHALL NOT EXCEED 12411 kPa. IF THE PLAN AREA OF ANY MASONRY PLATE IS REVISED (INCREASED), IT SHALL FIT WITHIN THE PLAN DIMENSIONS SHOWN FOR THE PEDESTAL. THE MINIMUM CONCRETE EDGE DISTANCE SHALL BE 75mm AND THE MINIMUM LATERAL ANCHOR BOLT COVER SHALL BE 200mm.

4. THE BEARING DEVICE, MASONRY PLATE, BEARING PAD, SOLE PLATE, BEVELED PLATE, ANCHOR BOLTS, NUTS, WASHERS AND WASHER PLATES SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 565.1722M - TYPE MR FIXED BEARING.

5. ALL BEARING CONNECTIONS SHALL BE CAPABLE OF RESISTING A LATERAL FORCE EQUAL TO 19% OF THE VERTICAL DESIGN LOAD (D.L.+L.L.+I) HORIZONTALLY IN ANY DIRECTION.
6. THE STEEL FOR THE BEARINGS SHALL BE AASHTO M270M GR345 UNLESS OTHERWISE NOTED.
7. ALL STEEL FABRICATION SHALL CONFORM TO THE PROVISIONS OF THE LATEST EDITION OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM) UNLESS OTHERWISE NOTED.
8. ANY ADJUSTMENTS IN ELEVATION NECESSARY TO ACCOMMODATE THE ACTUAL BEARING THAT IS SUPPLIED SHALL BE MADE BY CHANGING THE TOP OF THE PEDESTAL ELEVATIONS. THE MINIMUM PEDESTAL HEIGHT ALLOWED WILL BE 150mm. NO CHANGE IN THE BRIDGE SEAT ELEVATION WILL BE ALLOWED WITHOUT WRITTEN APPROVAL OF THE C.E.E.S. IN LIEU OF CHANGING PEDESTAL ELEVATIONS THE CONTRACTOR MAY ELECT ONE OF THE FOLLOWING AT NO ADDITIONAL COST TO THE THRUWAY AUTHORITY:
A. USE A SHIM PLATE UNDER THE MASONRY PLATE. THE SIZE AND MATERIAL OF THE SHIM PLATE SHALL BE THE SAME AS THE MASONRY PLATE. ONLY ONE SHIM PLATE SHALL BE PERMITTED AND THE MINIMUM THICKNESS SHALL BE 12mm
B. INCREASE THE THICKNESS OF THE MASONRY PLATE.
9. ANCHOR BOLTS, WASHERS, WASHER PLATES AND NUTS SHALL MEET THE REQUIREMENTS OF SUBSECTION 723-60. THEY SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF MATERIAL SPECIFICATION 719-01, "GALVANIZED COATINGS AND REPAIR METHODS". THEIR COST (INCLUDING GALVANIZING) SHALL BE INCLUDED IN THE UNIT PRICE FOR THE BEARING ITEM.
10. THE MASONRY PLATE AND BEVELED PLATE SHALL BE SHOP METALIZED OR GALVANIZED (MANUFACTURE'S PREFERENCE). THE COST FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.
11. THE MINIMUM VERTICAL DESIGN LOAD IS 1550 kN.
12. SHOP DRAWINGS SHALL BE SUBMITTED TO THE THRUWAY AUTHORITY FOR APPROVAL AND SHALL INCLUDE ALL WELDING AND BONDING PROCEDURES.
13. THE BASE POT AND SOLE PLATE SHALL BE SHOP METALIZED OR GALVANIZED (MANUFACTURE'S PREFERENCE). THE COST TO BE INCLUDED IN THE PRICE BID FOR THE BEARING ITEM.
14. THE BEARING PAD SHALL HAVE THE SAME HORIZONTAL DIMENSIONS AS THE MASONRY PLATE AND A THICKNESS OF 3mm±. THE BEARING PAD MATERIAL SHALL CONFORM TO N.Y.S. STANDARD SPEC. 728-01 OR 728-02.

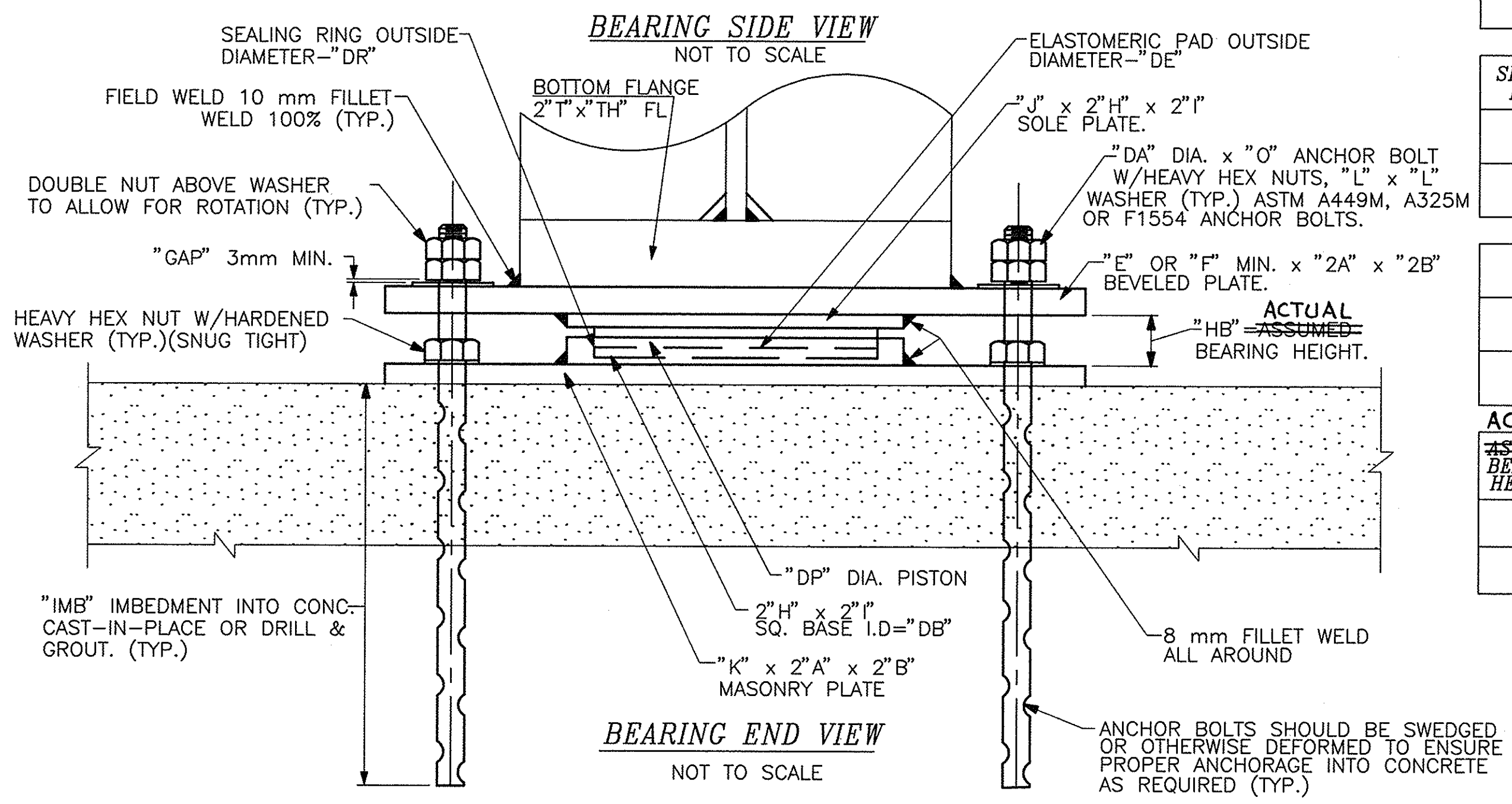


BEVELED PLATE									SOLE PLATE			PISTON
A	B	C	V	E	F	DB±LS Ø	G	R	H	I	J	DP
268	218	75	50	25	29	35	1.0%	218	168	168	16	280

SEALING RING	ELASTOMERIC PAD	BASE POT			MASONRY PLATE						
DR	DE	H	I	DB	A	B	X	V	R	K	Dm Ø
280	280	168	168	280	268	218	75	50	218	25	35

TOP WASHERS				ANCHOR BOLTS				PEDESTAL				BOTTOM FLANGE		
Dw Ø	L	M	N	IMB	O	GAP	DA	P	Q	R	S	T	U	TH FL
28	75	3	4	375	550	3	25	1125	500	218	357	228		45

ACTUAL ASSUMED BEARING HEIGHT	
HB	SKEW ANGLE
83	0

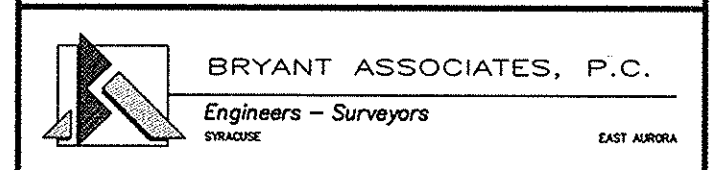


NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED.

BEARING HEIGHT REVISION

DATE	DESCRIPTION	BY	SYM.

REVISIONS



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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS
LOCATION OF PROJECT
SENECA - MP 317.46
GRAVEL ROAD
TITLE OF DRAWING

MULTI-ROTATIONAL FIXED BEARING DETAILS

	CONTRACT NUMBER:
	TAS 98-8B
	DATE:
	MAR. 1998
	DRAWING NUMBER:
	A13

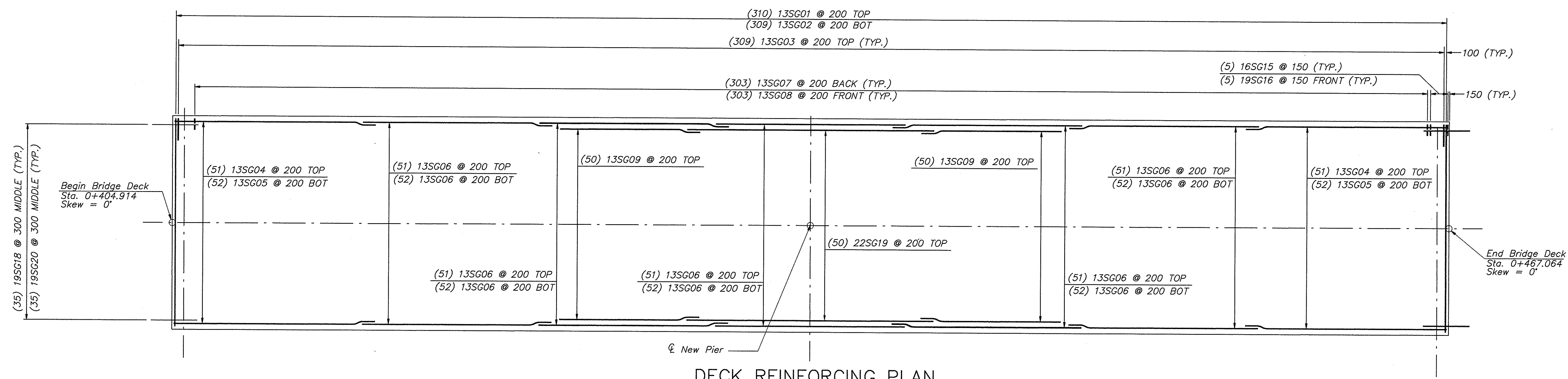
William F. Kubera, Jr., P.E.
3-26-98
Date

CHECKED BY: Wayne A. Faye

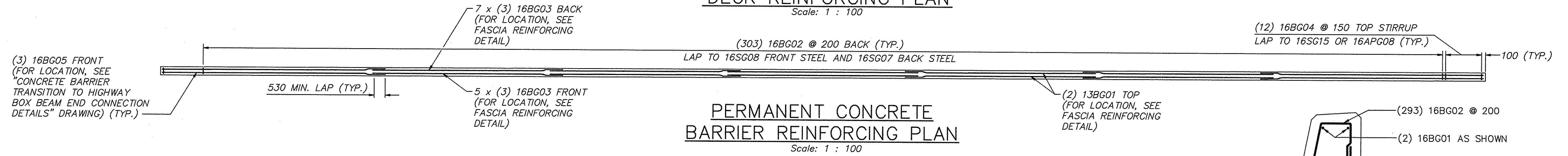
DRAFTED BY: James E. Fenderson/Wayne A. Faye

DESIGNED BY: James E. Fenderson/Wayne A. Faye

IN CHARGE OF: Anthony R. Matlock
B77052 LONGSPRSE&A14.DWG 03-25-1998

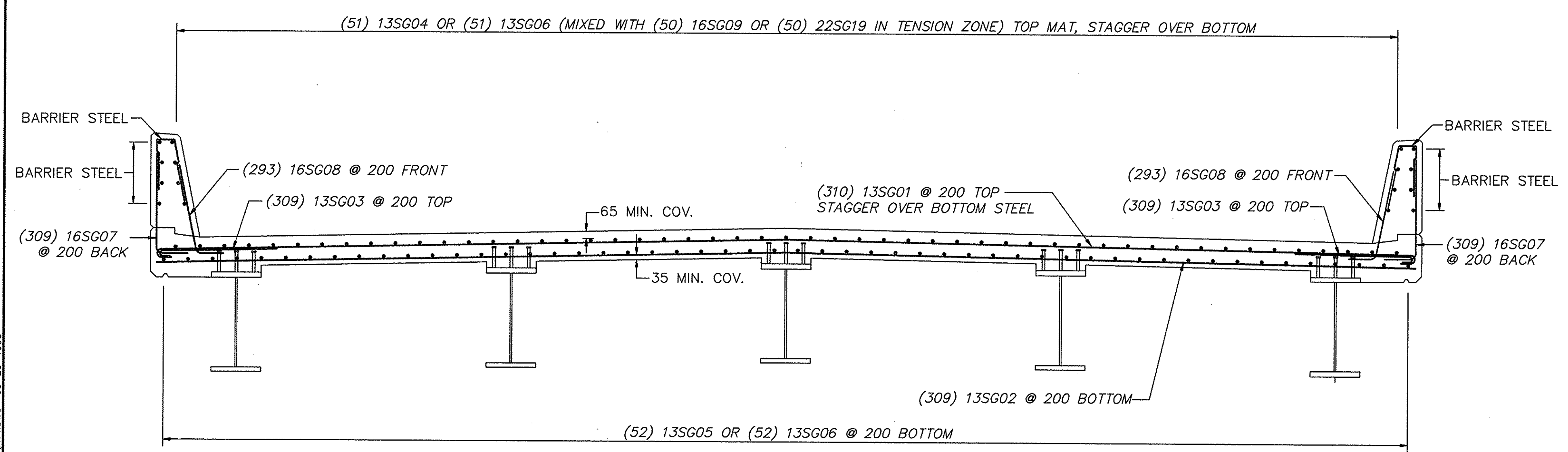


DECK REINFORCING PLAN
Scale: 1 : 100

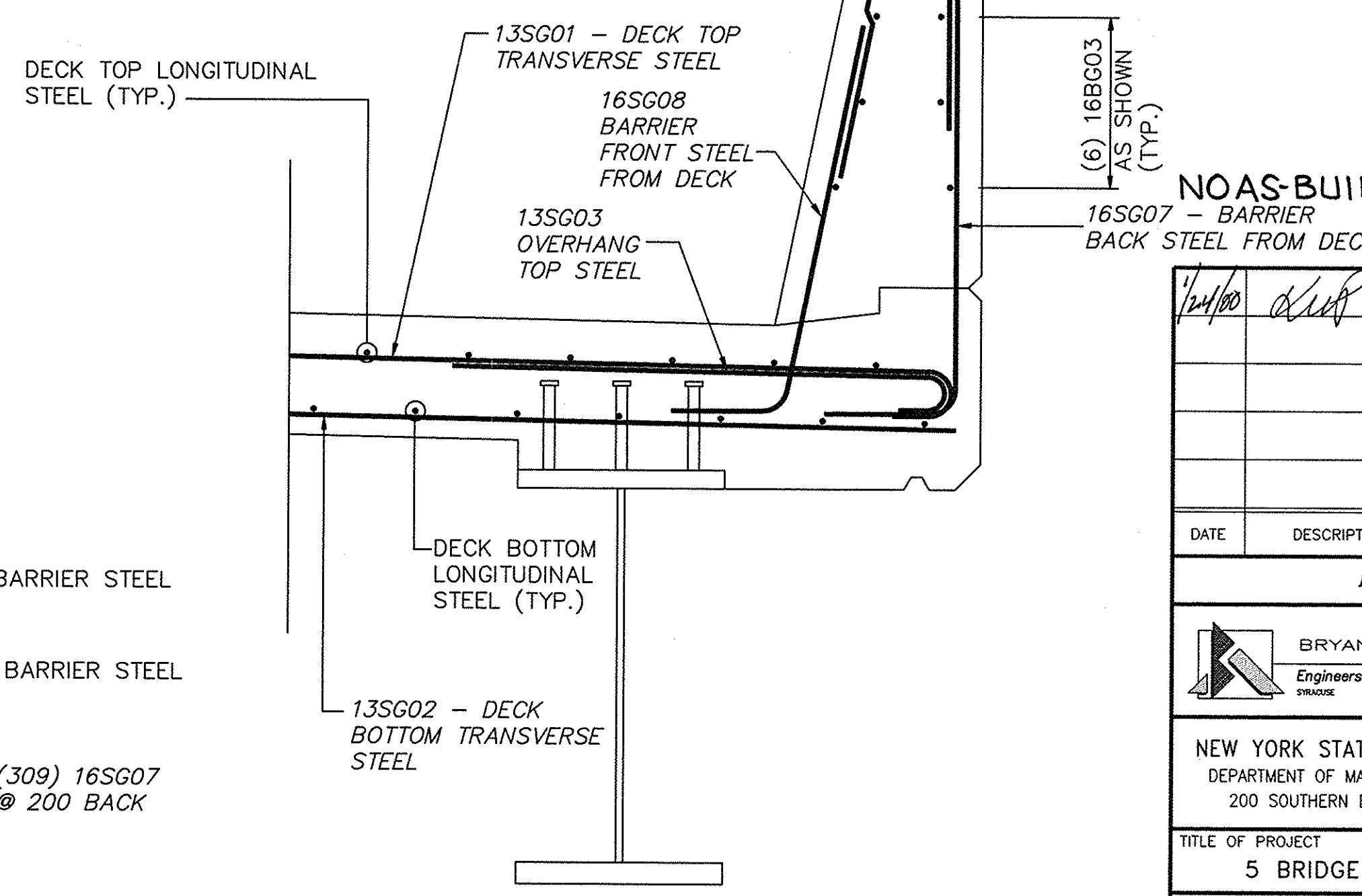


PERMANENT CONCRETE BARRIER REINFORCING PLAN
Scale: 1 : 100

CONCRETE AND REINFORCEMENT QUANTITIES		
	ITEM 25555.0466M (m ²)	ITEM 25556.99M (kg)
DECK SLAB	646.98	19,666



DECK REINFORCING SECTION
Scale: 1 : 25



FASCIA REINFORCING DETAIL
Scale: 1 : 10

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

Professional Engineer
William F. Kubera, Jr., P.E.
Date: 3-26-98

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS
BRYANT ASSOCIATES, P.C.
Engineers - Surveyors
060631
EAST AUBURN

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS
LOCATION OF PROJECT
SENECA - MP 317.46
GRAVEL ROAD
TITLE OF DRAWING

DECK SLAB PLAN & DETAILS

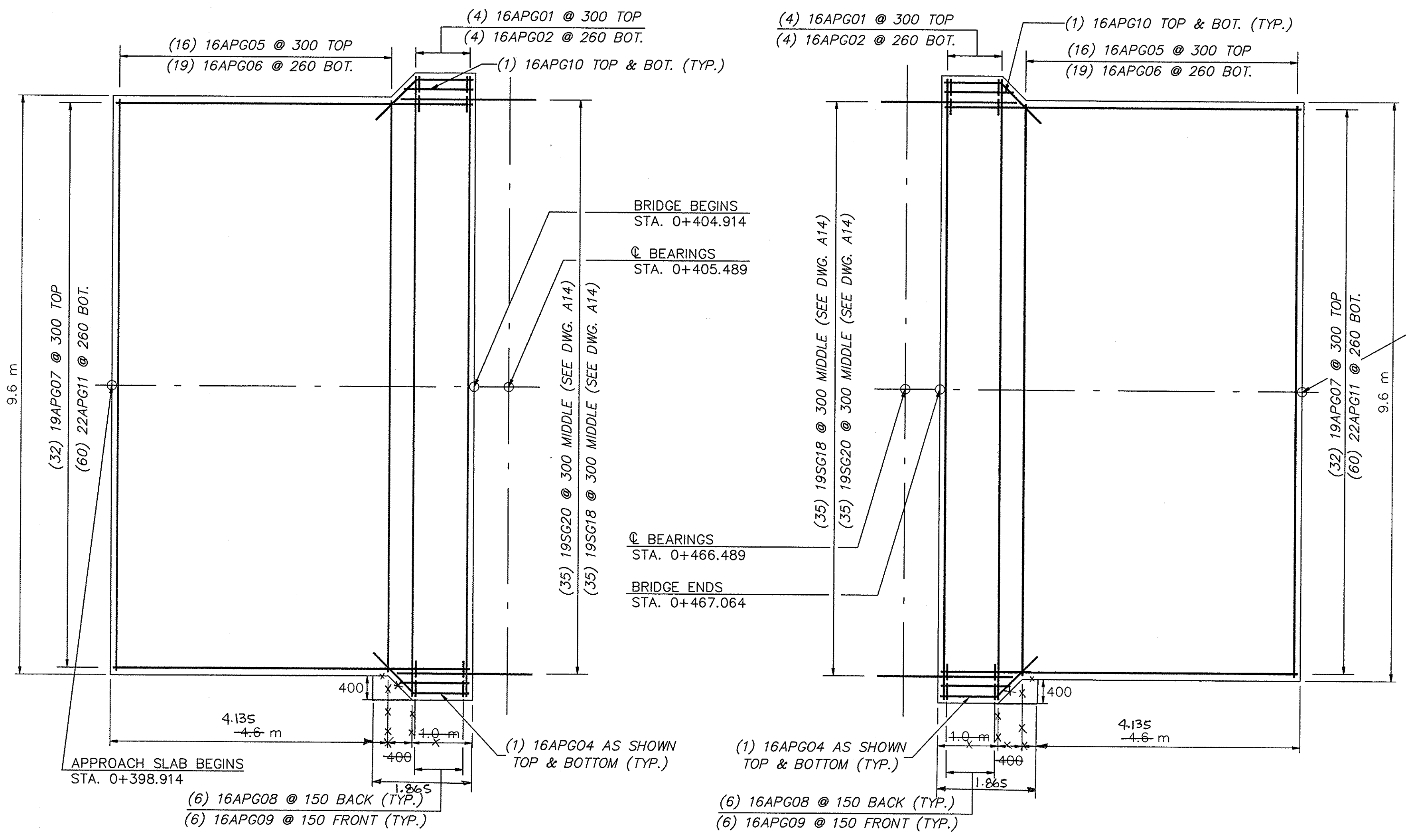
CONTRACT NUMBER:
TAS 98-8B
DATE:
MAR. 1998
DRAWING NUMBER:
A14

CHECKED BY: Andrew R. Malachuk

DRAFTED BY: Wayne A. Szye

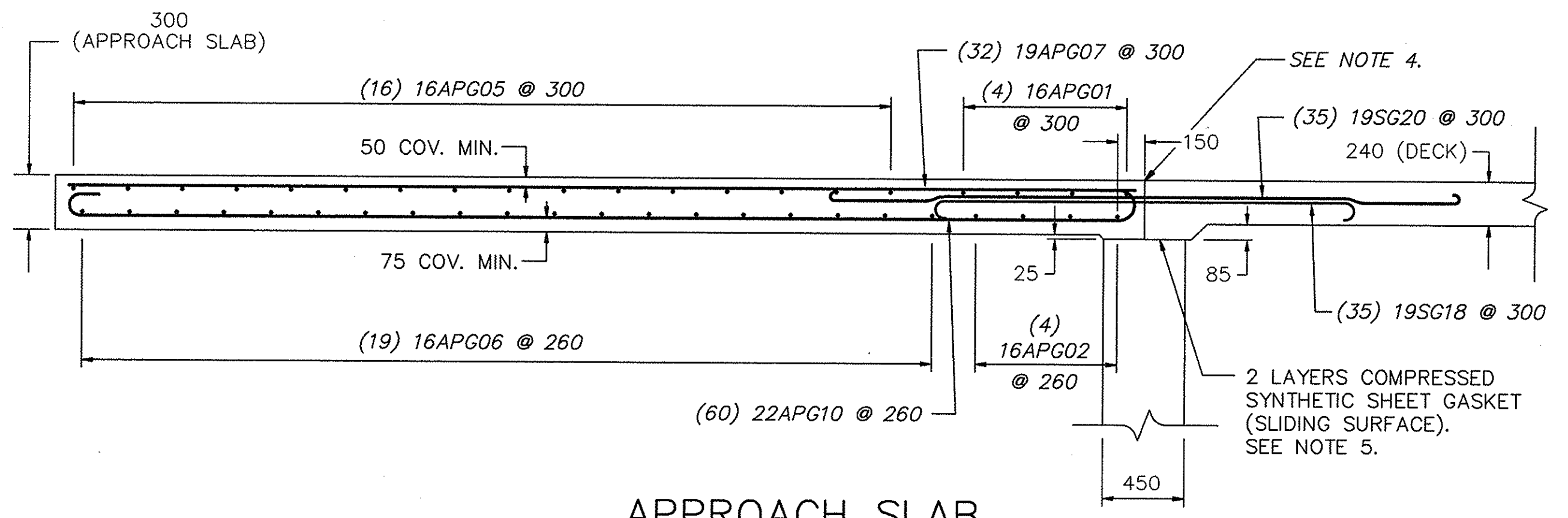
DESIGNED BY: Wayne A. Szye

IN CHARGE OF: Andrew R. Malachuk
B7705.2.DWG/PS&E/A15.DWG 03-25-1997

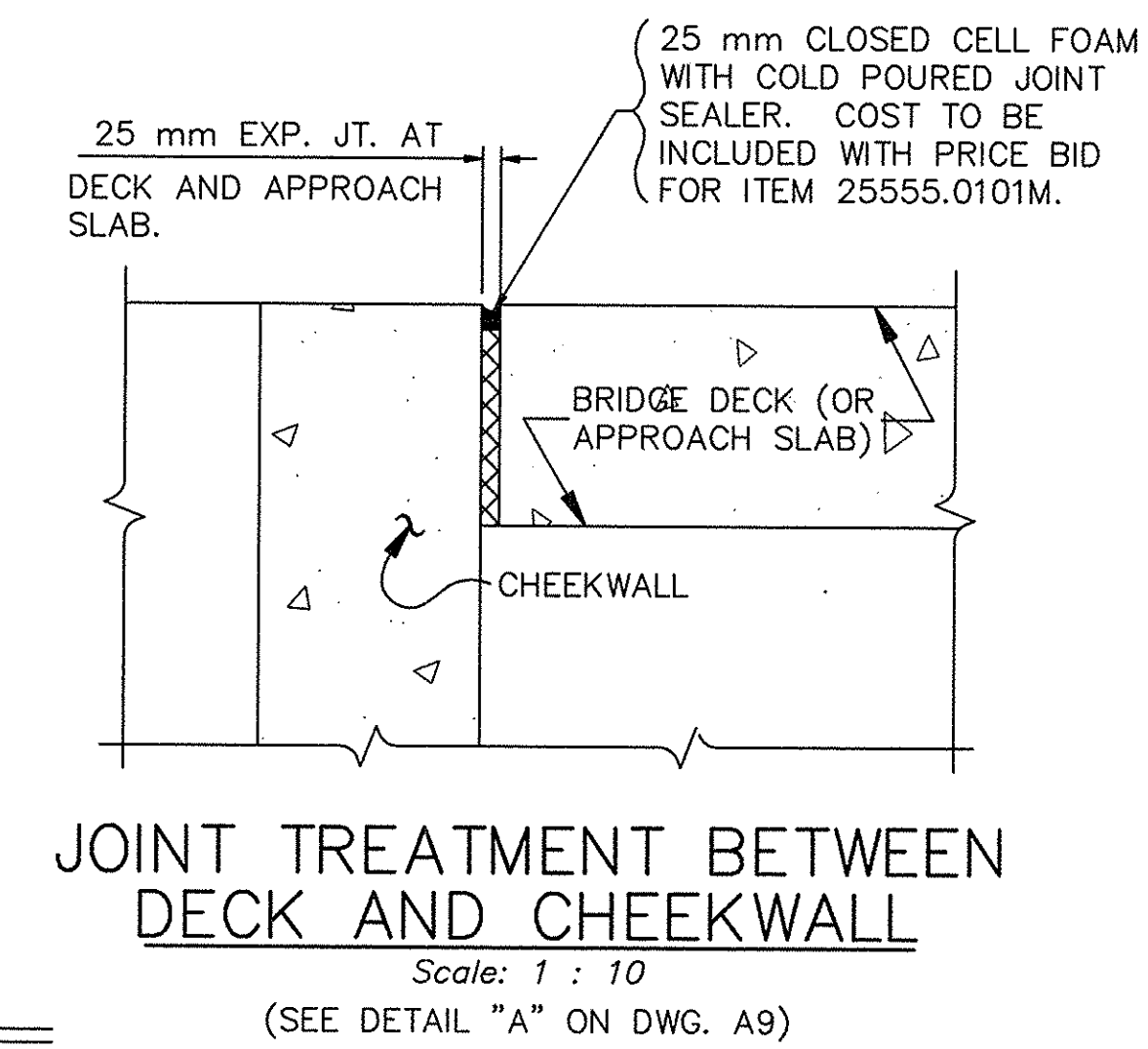
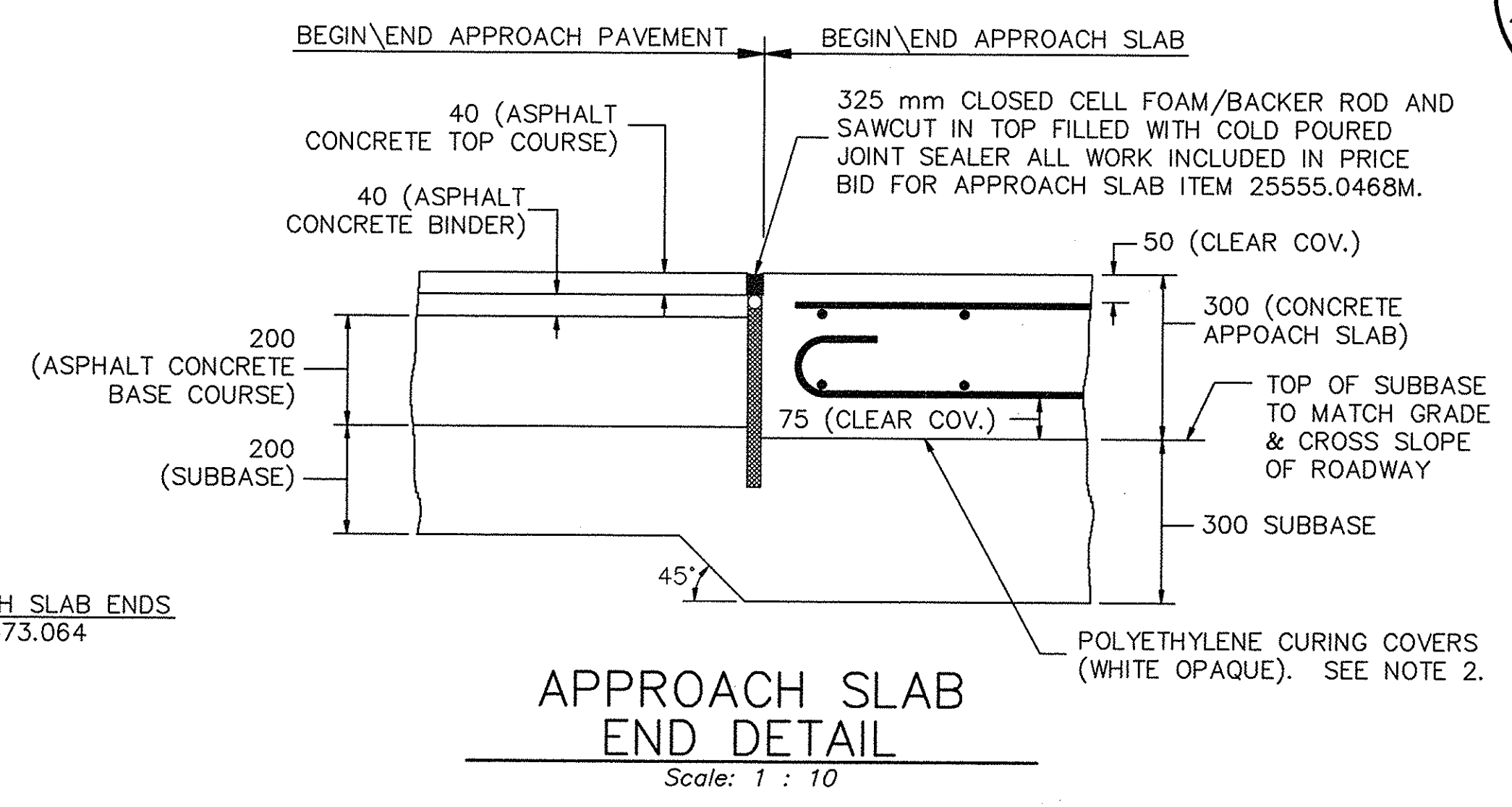


APPROACH SLAB
REINFORCEMENT PLAN
Scale: 1 : 50

CONCRETE AND REINFORCEMENT QUANTITIES		
	ITEM 25555.0468M SM	ITEM 25556.99M KG
APPROACH SLABS	117.120	4,366

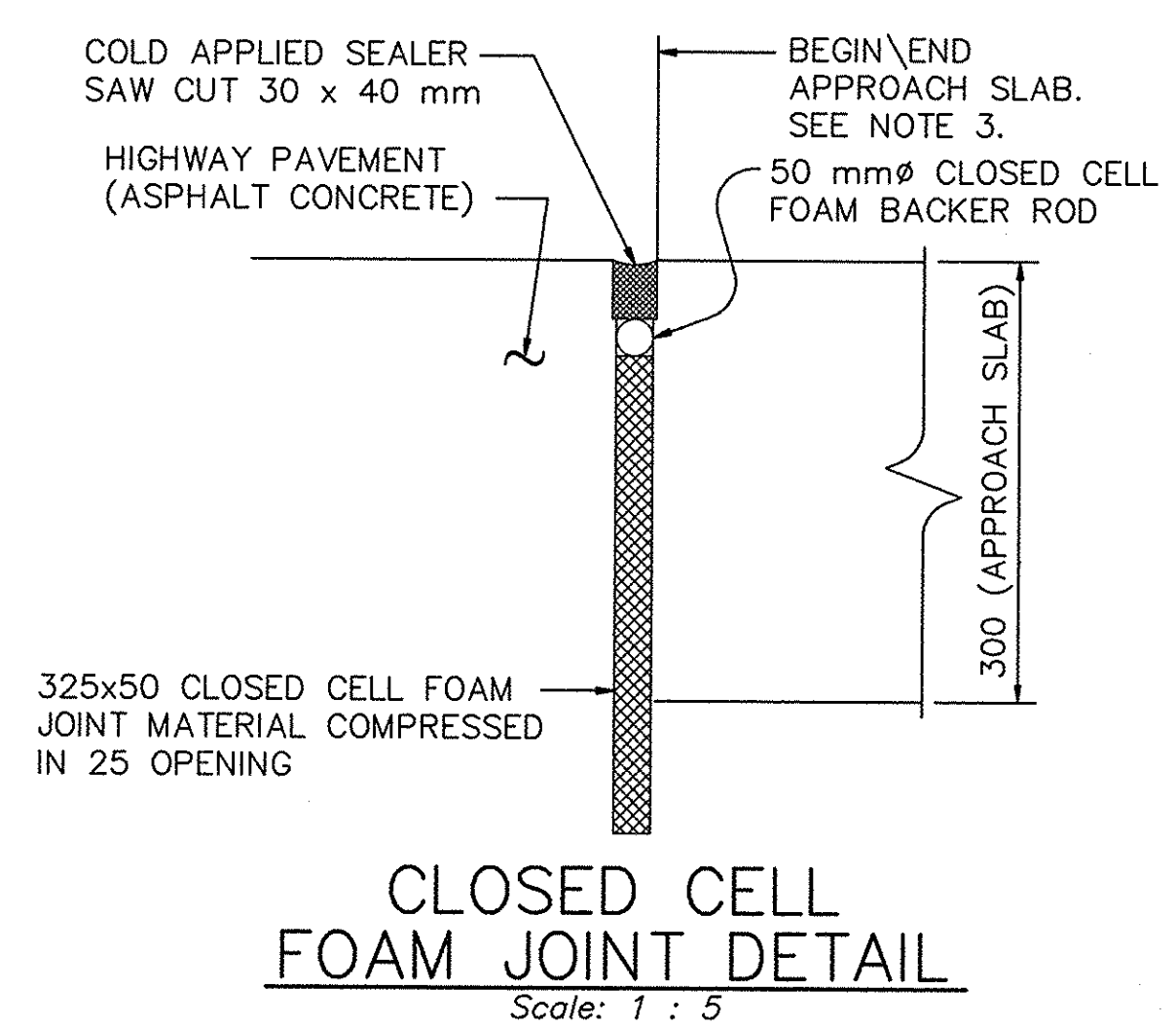


APPROACH SLAB
TYPICAL LONGITUDINAL SECTION
Scale: 1 : 25



NOTES

- ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.
- UNHINDERED LONGITUDINAL MOVEMENT OF THE APPROACH SLAB IS ACHIEVED BY MATCHING THE SURFACE OF THE SUBBASE COURSE TO THE ROADWAY GRADE AND CROSS SLOPE. POLYETHYLENE CURING COVERS (WHITE OPAQUE) IN ACCORDANCE WITH THE MATERIAL SPECIFICATION 711-04 SHALL BE PLACED ON TOP OF THE FINISHED SUBBASE COURSE FOR THE FULL WIDTH OF THE ROADWAY. THE CURING COVER'S THICKNESS SHALL BE 0.1 mm. LAPS SHALL BE 600 mm MINIMUM. COST SHALL BE INCLUDED IN THE PRICE BID FOR THE APPROACH SLAB, ITEM 25555.0468M.
- SAW CUT RECESS JOINT AT THE END OF THE APPROACH SLAB: CLEAN THE RECESS WITH HIGH PRESSURE AIR AND INSTALL THE CLOSED-CELL FOAM AND FILL THE TOP OF THE RECESS WITH COLD APPLIED SEALER, FEDERAL MATERIAL SPECIFICATION SS-S-00195B - ELASTOMERIC POLYMER TYPE, TWO-COMPONENT COLD APPLIED. THE COST SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB, ITEM 25555.0468M.
- AT THE COLD FORMED JOINT BETWEEN THE APPROACH SLAB AND THE DECK A 6 mm WIDE x 38 mm DEEP SAW CUT SHALL BE MADE IN THE WEARING SURFACE DIRECTLY OVER THE JOINT. THIS SAW CUT SHALL BE THE FULL WIDTH OF THE APPROACH SLAB. SEAL THE SAW CUT WITH HOT POURED JOINT SEALER AS PER FED. SPEC. SS-S-001401. THE COST IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB, ITEM 25555.0468M.
- THE TOP OF THE BACKWALL SHALL BE STEEL TROWEL FINISHED. COMPRESSED SYNTHETIC SHEET GASKET (TREATED BOTH SIDES) SHALL BE PLACED ON THE TOP OF THE BACKWALL. THIS MATERIAL SHALL BE SEA-RO CSG-2, AS MANUFACTURED BY THE SEA-RO COMPANY, INC., WOODRICH, NJ, OR EQUAL APPROVED BY THE DSD. TWO 2 mm THICK SHEETS SHALL BE USED. THE COST IS TO BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB, ITEM 25555.0468M.



Seal of the State of New York
Professional Engineer
William F. Kubera, Jr., P.E.
3-26-98
Date

APPROACH SLAB DIMENSION REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

BRYANT ASSOCIATES, P.C.
Engineers - Surveyors
SUNSHINE EAST AURORA

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA - MP 317.46
GRAVEL ROAD

TITLE OF DRAWING
APPROACH SLAB
PLAN & DETAILS

CONTRACT NUMBER:
TAS 98-8B

DATE:
MAR. 1998

DRAWING NUMBER:
A15

IN CHARGE OF: Andrew D. Maderico
BA705-2 UNOSAPSE & VLB DWG 03-23-1998 MFW VIEW "PAGE"
DESIGNED BY: Wayne A. Szye
DRAFTED BY: Martin L. Wapner
CHECKED BY: Wayne A. Szye

MARK	SIZE	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H1	H2	J	K K1	K2	L	O	R	REMARKS
SOUTH ABUTMENT FOOTING																					
29AG01	29	143	4.610 m	1	3,336	380	3.850 m					380			300						Abut./W.W., Bot. Transv.
29AG02	29	2	1.500 m	19	15		750	750					530			530					Abut. Corner Toe Bot.
16AG03	16	14	11.107 m	STR.	242																Abut. Top & Bot. Long.
16AG04	16	20	7.740 m	STR.	241																W.W. Top & Bot. Long.
16AG05	16	2	1.500 m	19	5		750	750					530			530					Abut. Corner Toe Top
29AG06	29	6	3.760 m	1	114	380	3.000 m					380			300						Abut. Corner Bot. Transv.
29AG07	29	4	4.742 m	1	96	380	3.982 m					380			300						Abut. Corner Bot. Transv.
16AG08	16	68	4.210 m	1	445	180	3.850 m					180			130						Abut./W.W. Top. Transv.
16AG09	16	6	3.360 m	1	32	180	3.000 m					180			130						Abut. Corner Top Transv.
16AG10	16	4	4.342 m	1	27	180	3.982 m					180			130						Abut. Corner Top Transv.
16AG11	16	83	1.840 m	1	237	180	1.480 m					180			130						Abut./W.W. Dowels (N.F.)
19AG12	19	58	2.575 m	17	334		500	2.075 m													Abut. Dowels (F.F.)
29AG13	29	62	4.120 m	17	1,293		1,000 m	3.120 m													W.W. Dowels (F.F.)
13AG14	13	86	1.120 m	T9	96	160	850					110	110								Abut./W.W. Vert. Stirrups
			SUBTOTAL	=	6,513	kg															
SOUTH ABUTMENT STEM AND WINGWALL																					
16AG16	16	20	1.117 m	19	35		271	846					192			192					Abut. Cheekwall Long. (F.F.)
16AG17	16	20	1.192 m	19	37		684	508					359			359					Abut. Cheekwall Long. (N.F.)
16AG20	16	45	3.943 m	STR.	275																Abut. Stem Vert. (N.F.)
19AG21	19	58	3.957 m	STR.	513																Abut. Stem Vert. (F.F.)
16AG22	16	20	10.900 m	STR.	338																Abut. Stem Long. (E.F.)
25AG23	25	6	10.900 m	STR.	260																Abut. Stem Long. (Bridge Seat)
25AG24	25	35	2.520 m	17	351		760	1,000 m	760												Abut. Stem Stirrups (Bridge Seat)
13AG25	13	175	1.270 m	T9	221	160	1,000 m					110	110								Abut. Stem Horiz. Stirrups
16AG26	16	24	2.160 m	1	81	180	1,800 m								130						Backwall Dowels (N.F.)
16AG27	16	35	1.800 m	STR.	98																Backwall Dowels (F.F.)
16AG29	16	6	2.032 m	STR.	19																Abut. Cheekwall Dowels (F.F.)
16AG30	16	38	4.496 m(*)	STR.	265																W.W. Vert. (N.F.)
16AG31	16	62	3.201 m(*)	STR.	308																W.W. Vert. (F.F.)
16AG32	16	38	1.260 m	17	74		480	300	480												W.W. Stirrups (Top of W.W.)
16AG33	16	36	5.050 m	STR.	282																W.W. Long. (E.F.)
13AG34	13	180	570	T9	102	160	300					110	110								W.W. Horiz. Stirrups
16AG35	16	4	5.172 m	STR.	32																W.W. Long. (Top of W.W.)
16AG36	16	20	2.626 m(*)	STR.	82																W.W. Long. (E.F.)
16AG37	16	10	2.392 m	1	37	180	2,032 m					180			130						Abut. Cheekwall Dowels (N.F.)
			SUBTOTAL	=	3,410	kg															
SOUTH ABUTMENT BACKWALL																					
16AG16	16	8	1.117 m	19	14		271	846					192			192					Backwall Cheekwall Long. (F.F.)
16AG17	16	10	1.192 m	19	19		684	508					359			359					Backwall Cheekwall Long. (N.F.)
16AG22	16	8	10.900 m	STR.	135																Backwall Long. (E.F.)
16AG32	16	28	1.260 m	17	55		480	300	480												Backwall Stirrups (Top of Backwall)
16AG40	16	10	1.000 m	STR.	16																Backwall Cheekwall Transv.
16AG41	16	2	517	19	2		271	246					192			192					Backwall Cheekwall Long.
16AG43	16	4	1.110 m	17	7		480	150	480												Backwall Cheekwall Stirrups
			SUBTOTAL	=	248	kg															
SOUTH ABUTMENT PEDESTALS																					
16AG50	16	25	1.108 m	T5	43	180	678					250			130						Pedestal Dowels
16AG51	16	9	3.500 m	T1	49	200	1,000 m	550	1,000 m	550		200	140								Pedestal Horiz. Ties
			SUBTOTAL	=	92	kg															
SOUTH ABUTMENT TOTAL																					
			SUBTOTAL	=	10,263	kg															

MARK	SIZE	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H1	H2	J	K K1	K2	L	O	R	REMARKS
NORTH ABUTMENT FOOTING (**)																					
			SUBTOTAL	=	6,513	kg															
NORTH ABUTMENT STEM AND WINGWALL																					
16AG16	16	20	1.117 m	19	35		271	846					192			192					Abut. Cheekwall Long. (F.F.)
16AG17	16	20	1.192 m	19	37		684	508					359			359					Abut. Cheekwall Long. (N.F.)
16AG20	16	45	4.404 m	STR.	308																Abut. Stem Vert. (N.F.)
19AG21	19	58	4.418 m	STR.	573																Abut. Stem Vert. (F.F.)
16AG22	16	20	10.900 m	STR.	338																Abut. Stem Long. (E.F.)
25AG23	25	6	10.900 m	STR.	260																Abut. Stem Long. (Bridge Seat)
25AG24	25	35	2.520 m	17	351		760	1,000 m	760												Abut. Stem Stirrups (Bridge Seat)
13AG25	13	175	1.270 m	T9	221	160	1,000 m					110	110								Abut. Stem Horiz. Stirrups
16AG26	16	24	2.160 m	1	81	180	1,800 m						180			130					Backwall Dowels (N.F.)
16AG27	16	35	1.800 m	STR.	98																Backwall Dowels (F.F.)
16AG29	16	6	2.032 m	STR.	19																Abut. Cheekwall Dowels (F.F.)
16AG30	16	38	4.995 m(*)	STR.	295																W.W. Vert. (N.F.)
16AG31	16	62	3.700 m(*)	STR.	356																W.W. Vert. (F.F.)
16AG32	16	38	1.260 m	17	74		480	300	480												W.W. Stirrups (Top of W.W.)
16AG33	16	40	5.050 m	STR.	314																W.W. Long. (E.F.)
13AG34	13	180	570	T9	102	160	300					110	110								W.W. Horiz. Stirrups
16AG35	16	4	5.147 m	STR.	32																W.W. Long. (Top of W.W.)
16AG36	16	20	2.626 m(*)	STR.	82																W.W. Long. (E.F.)
16AG37	16	10	2.392 m	1	37	180	2,032 m					180			130						Abut. Cheekwall Dowels (N.F.)
			SUBTOTAL	=	3,613	kg															
NORTH ABUTMENT BACKWALL (**)																					
			SUBTOTAL	=	248	kg															
NORTH ABUTMENT PEDESTALS (**)																					
			SUBTOTAL	=	92	kg															
NORTH ABUTMENT TOTAL																					
			SUBTOTAL	=	10,466	kg															

(**) - SAME AS SOUTH ABUTMENT.

NOTES:

- "STR." INDICATES STRAIGHT BAR.
- "(*)" INDICATES AVERAGE LENGTH OF BARS.
- WEIGHT IS GIVEN IN KILOGRAMS (kg)
- ALL BARS SHALL BE ASTM A615M-96, GRADE 400.
- GALVANIZED REINFORCEMENT SHALL BE USED IN ALL LOCATIONS.
- ALL BAR DIMENSIONS ARE OUT TO OUT, UNLESS OTHERWISE INDICATED.



William F. Kubera, Jr., P.E. 3-26-98
Date

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

CHECKED BY: Wayne A. Szye

DRAFTED BY: Mark L. Wagoner

DESIGNED BY: Wayne A. Szye

IN CHARGE OF: Anthony R. Nicoletto
BA706.2.DWG(S) SCALE: 1/2"=1'-0" DATE: 03-25-1998 MLW VIEW: "PAGE"

MARK	SIZE	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H ₁	H ₂	J	K K ₁	K ₂	L	O	R	REMARKS
DECK																					
13SG01	13	310	10.56 m	1	3,254	150	10.26 m					150			100						TOP TRANSVERSE
13SG02	13	309	10.26 m	STR.	3,151																BOTTOM TRANSVERSE
13SG03	13	618	1.30 m	1	799	150	1.15 m								100						TOP TRANSVERSE OVERHANG
13SG04	13	102	9.86 m	1	1,000	150	9.71 m								100						TOP LONGITUDINAL ENDS
13SG05	13	104	9.71 m	STR.	1,004																BOTTOM LONGITUDINAL ENDS
13SG06	13	515	9.26 m	STR.	4,740																TOP AND BOTTOM LONGITUDINAL
16SG07	16	606	1.05 m	17	988		250	800													DECK INTO BACK OF BARRIER
16SG08	16	606	920	19	865		250	670					247		42						DECK INTO FRONT OF BARRIER
16SG09	16	100	6.67 m	STR.	1,035																TOP LONGITUDINAL (TENSION ZONE)
16SG15	16	20	1.88 m	S11	59																DECK INTO BARRIER TRANSITION
16SG16	16	20	1.24 m	14	38	300	300	640				212			212						DECK INTO BARRIER TRANSITION (FRONT)
19SG18	19	70	2.40 m	1	376	200	2.00 m					200			150						DECK END INTO APPROACH SLAB
19SG20	19	70	3.40 m	1	532	200	3.00 m					200			150						DECK END INTO APPROACH SLAB
22SG21	22	50	12.00 m	STR.	1,825																TOP LONGITUDINAL OVER PIER
					\$SUBTOTAL	=	19,666	kg													
SOUTH APPROACH SLAB																					
16APG01	16	4	10.26 m	STR.	64																TRANSVERSE TOP
16APG02	16	4	10.62 m	1	66	180	10.26 m					180			130						TRANSVERSE BOTTOM
16APG04	16	4	1.92 m	19	12		1.00 m	920				707			707						LONGITUDINAL FASCIA
16APG05	16	16	9.45 m	STR.	235																TRANSVERSE TOP
16APG06	16	19	9.81 m	1	289	180	9.45 m					180			130						TRANSVERSE BOTTOM
16APG07	16	32	5.85 m	STR.	291																LONGITUDINAL TOP
16APG08	16	12	1.88 m	S11	35							900						140			APPR. SLAB INTO BARR. TRANS.
16APG09	16	12	1.24 m	14	23	300	300	640				212			212						APPR. SLAB INTO BARR. TRANS. (FRONT)
16APG10	16	4	1.41 m	1	9	180	1.05 m					180			130						LONGITUDINAL TOP & BOTTOM
22APG11	22	60	6.35 m	1	1,159	250	5.85 m					250			180						LONGITUDINAL BOTTOM
					\$SUBTOTAL	=	2,183	kg													
NORTH APPROACH SLAB																					
16APG01	16	4	10.26 m	STR.	64																TRANSVERSE TOP
16APG02	16	4	10.62 m	1	66	180	10.26 m					180			130						TRANSVERSE BOTTOM
16APG04	16	4	1.92 m	19	12		1.00 m	920				707			707						LONGITUDINAL FASCIA
16APG05	16	16	9.45 m	STR.	235																TRANSVERSE TOP
16APG06	16	19	9.81 m	1	289	180	9.45 m					180			130						TRANSVERSE BOTTOM
16APG07	16	32	5.85 m	STR.	291																LONGITUDINAL TOP
16APG08	16	12	1.88 m	S11	35							900						140			APPR. SLAB INTO BARR. TRANS.
16APG09	16	12	1.24 m	14	23	300	300	640				212			212						APPR. SLAB INTO BARR. TRANS. (FRONT)
16APG10	16	4	1.41 m	1	9	180	1.05 m					180			130						LONGITUDINAL TOP & BOTTOM
22APG11	22	60	6.35 m	1	1,159	250	5.85 m					250			180						LONGITUDINAL BOTTOM
					\$SUBTOTAL	=	2,183	kg													
					SUPERSTRUCTURE TOTAL	=	23,936	kg													

NOTES:

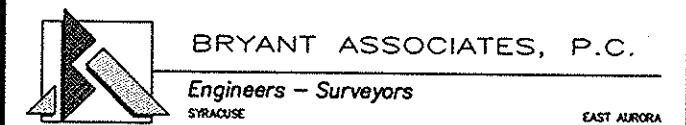
- "STR." INDICATES STRAIGHT BAR.
- "(*)" INDICATES AVERAGE LENGTH OF BARS.
- WEIGHT IS GIVEN IN KILOGRAMS (kg)
- ALL BARS SHALL BE ASTM A615M-96, GRADE 400.
- GALVANIZED REINFORCEMENT SHALL BE USED IN ALL LOCATIONS.
- ALL BAR DIMENSIONS ARE OUT TO OUT, UNLESS OTHERWISE INDICATED.

MARK	SIZE	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H ₁	H ₂	J	K K ₁	K ₂	L	O	R	REMARKS
MEDIAN PIER (M.P. 317.46)																					
FOOTING																					
13PG01	13	127	1044	T9	132	160	774					110	110								FRONT TO BACK TIES
13PG02	13	24	900	N18	22	160	580					160	110								TOP TO BOTTOM TIES
16PG03	16	12	8.05mAVG.	14	150	6.6mAVG	200	500	200	550			150	150		150	150		800		HORIZ. STEM BASE(2 OF EACH LENGTH)
					A VARIES FROM 6.5 m TO 6.7 m.																
19PG04	19	12	6.76 m	19	181		300	6.46 m					290			-75					VERTICAL STEM ENDS
25PG05	25	128	3.41 m	1	1734	280	2.85 m					280			200						TOP & BOTTOM TRANSVERSE
25PG06	25	42	9.41 m	1	1570	280	8.85 m					280			200						TOP & BOTTOM LONGITUDINAL
36PG07	36	106	6.86 m	2	5750	610	6.25 m														VERTICAL FOOTING INTO STEM
					subtotal	=	9539	kg													
STEM																					
13PG01	13	842	1044	T9	874	160	774					110	110								FRONT TO BACK TIES
16PG08	16	26	8.53mAVG	14	344	7.1mAVG	200	500	200	550			150	150		150	150		800		HORIZ. STEM BOTTOM(2 OF EACH LENGTH)
					A VARIES FROM 6.85 m TO 7.3 m.																
16PG09	16	40	10.05mAVG	14	624	8.6mAVG	200	500	200	550			150	150		150	150		800		HORIZ. STEM MIDTOP(2 OF EACH LENGTH)
					A VARIES FROM 7.45 m TO 9.75 m.																
16PG10	16	36	1.72 m	17	96		480	760	480												STEM INTO PEDESTAL ANCHORAGE
25PG11	25	6	11.15 m	N16	266		550	183	9.68 m	183	550		527	527		142	142		9.90 m	100	TOP OF STEM
25PG12	25	35	1.58 m	2	220	410		760				410									TOP OF STEM
					subtotal	=	2424	kg													
PEDESTALS																					
16PG13	16	2	5.00 m	T1	16	200	1.50 m	800	1.50 m	800		200	140								FASCIA PEDESTAL
16PG14	16	3	6.20 m	T1	29	200	2.10 m	800	2.10 m	800		200	140								INTERIOR PEDESTAL
					subtotal	=	45	kg													
					TOTAL MEDIAN PIER	=	12 008	kg													

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS



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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS
LOCATION OF PROJECT
SENECA - MP 317.46
GRAVEL ROAD
TITLE OF DRAWING

REINFORCING STEEL
SCHEDULE - II

CONTRACT NUMBER: TAS 98-8B
DATE: MAR. 1998
DRAWING NUMBER: A17

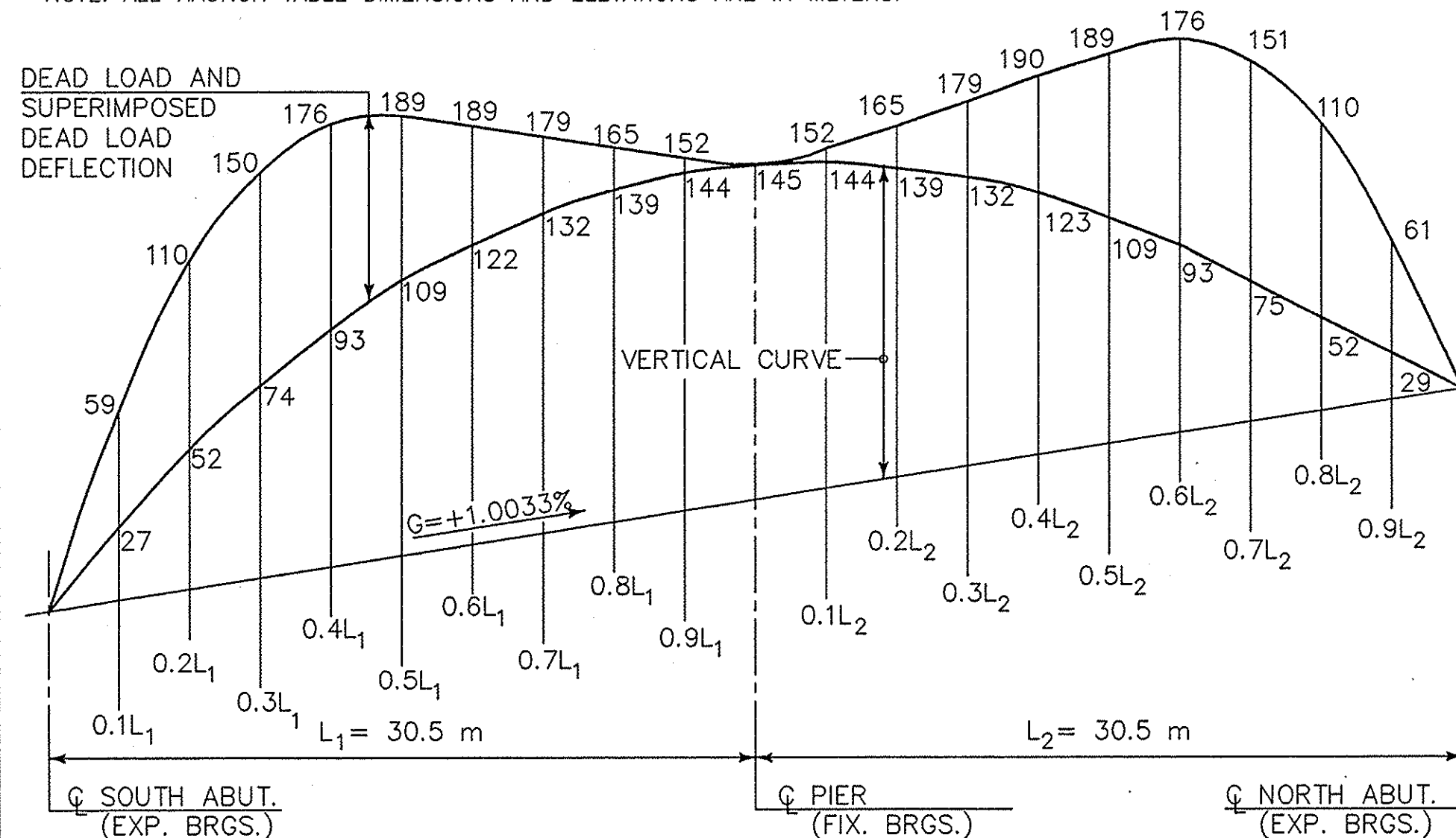


William F. Kubera, Jr., P.E.
3-26-98
Date

HAUNCH TABLE

HAUNCH TABLE		SPAN 1										SPAN 2										
		Q BRGS. SOUTH ABUTMENT	0.1L ₁	0.2L ₁	0.3L ₁	0.4L ₁	0.5L ₁	0.6L ₁	0.7L ₁	0.8L ₁	0.9L	Q BRGS. PIER 1	0.1L	0.2L ₁	0.3L ₁	0.4L ₁	0.5L ₁	0.6L ₁	0.7L ₁	0.8L ₁	0.9L ₁	Q BRGS. NORTH ABUTMENT
GIRDER 1	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	141.528	141.589	141.646	141.701	141.751	141.798	141.841	141.879	141.915	141.948	141.979	142.010	142.037	142.063	142.086	142.104	142.119	142.130	142.136	142.141	142.140
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	141 480	141 574	141 659	141 729	141 785	141 829	141 859	141 886	141 908	141 921	141 938	141 977	142 015	142 042	142 077	142 107	142 117	142 119	142 111	142 094	142 067
	(C) = (A) - (B) (m)	048	015	- 013	- 028	- 034	- 031	- 018	- 007	007	027	041	033	022	021	009	003	002	011	025	047	073
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	048	037	028	025	024	025	028	025	024	032	041	038	039	053	055	059	060	064	066	069	073
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	141.528	141.586	141.641	141.694	141.743	141.790	141.834	141.874	141.912	141.947	141.979	142.009	142.034	142.058	142.079	142.096	142.111	142.123	142.131	142.138	142.140
GIRDER 2	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	141.573	141.634	141.691	141.746	141.796	141.843	141.886	141.924	141.960	141.993	142.024	142.055	142.082	142.108	142.131	142.149	142.164	142.175	142.181	142.186	142.185
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	141 520	141 614	141 696	141 766	141 817	141 855	141 884	141 906	141 934	141 955	141 981	142 025	142 067	142 098	142 132	142 157	142 172	142 173	142 162	142 144	142 115
	(C) = (A) - (B) (m)	053	020	- 005	- 020	- 021	- 012	002	018	026	038	043	030	015	010	- 001	- 008	008	002	019	042	070
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	053	042	036	033	037	044	048	050	043	043	043	035	032	042	045	048	050	055	060	064	070
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	141.573	141.631	141.686	141.739	141.788	141.835	141.879	141.919	141.957	141.992	142.024	142.054	142.079	142.103	142.124	142.141	142.156	142.168	142.176	142.183	142.185
GIRDER 3	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	141.618	141.679	141.736	141.791	141.841	141.888	141.931	141.969	142.005	142.038	142.069	142.100	142.127	142.153	142.176	142.194	142.209	142.220	142.226	142.231	142.230
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	141 564	141 659	141 741	141 811	141 863	141 902	141 931	141 951	141 982	142 005	142 031	142 076	142 118	142 152	142 189	142 212	142 229	142 229	142 217	142 197	142 167
	(C) = (A) - (B) (m)	054	020	- 005	- 020	- 022	- 014	000	018	023	033	038	024	009	001	- 013	- 018	- 020	- 009	009	034	063
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	054	042	036	033	036	042	046	050	040	038	038	029	026	033	033	038	038	044	050	056	063
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	141.618	141.676	141.731	141.784	141.833	141.880	141.924	141.964	142.002	142.037	142.069	142.099	142.124	142.148	142.169	142.186	142.201	142.213	142.221	142.228	142.230
GIRDER 4	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	141.573	141.634	141.691	141.746	141.796	141.843	141.886	141.924	141.960	141.993	142.024	142.055	142.082	142.108	142.131	142.149	142.164	142.175	142.181	142.186	142.185
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	141 519	141 615	141 700	141 774	141 827	141 867	141 895	141 916	141 941	141 959	141 982	142 022	142 063	142 097	142 134	142 159	142 177	142 182	142 172	142 151	142 120
	(C) = (A) - (B) (m)	054	019	- 009	- 028	- 031	- 024	- 009	008	019	034	042	033	019	011	- 003	- 010	- 013	- 007	009	035	065
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	054	041	032	025	027	032	037	040	036	039	042	038	036	043	043	046	045	046	050	057	065
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	141.573	141.631	141.686	141.739	141.788	141.835	141.879	141.919	141.957	141.992	142.024	142.054	142.079	142.103	142.124	142.141	142.156	142.168	142.176	142.183	142.185
GIRDER 5	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	141.528	141.589	141.646	141.701	141.751	141.798	141.841	141.879	141.915	141.948	141.979	142.010	142.037	142.063	142.086	142.104	142.119	142.130	142.136	142.141	142.140
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	141 477	141 571	141 655	141 727	141 782	141 822	141 850	141 868	141 895	141 913	141 937	141 981	142 025	142 059	142 097	142 124	142 145	142 150	142 137	142 113	142 080
	(C) = (A) - (B) (m)	051	018	- 009	- 026	- 031	- 024	- 009	011	020	035	042	029	012	004	- 011	- 020	- 026	- 020	- 001	028	060
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	051	040	032	027	027	032	037	043	037	040	042	034	029	036	035	036	032	033	040	050	060
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	141.528	141.586	141.641	141.694	141.743	141.790	141.834	141.874	141.912	141.947	141.979	142.009	142.034	142.058	142.079	142.096	142.111	142.123	142.131	142.138	142.140

NOTE: ALL HAUNCH TABLE DIMENSIONS AND ELEVATIONS ARE IN METERS.



CAMBER DIAGRAM

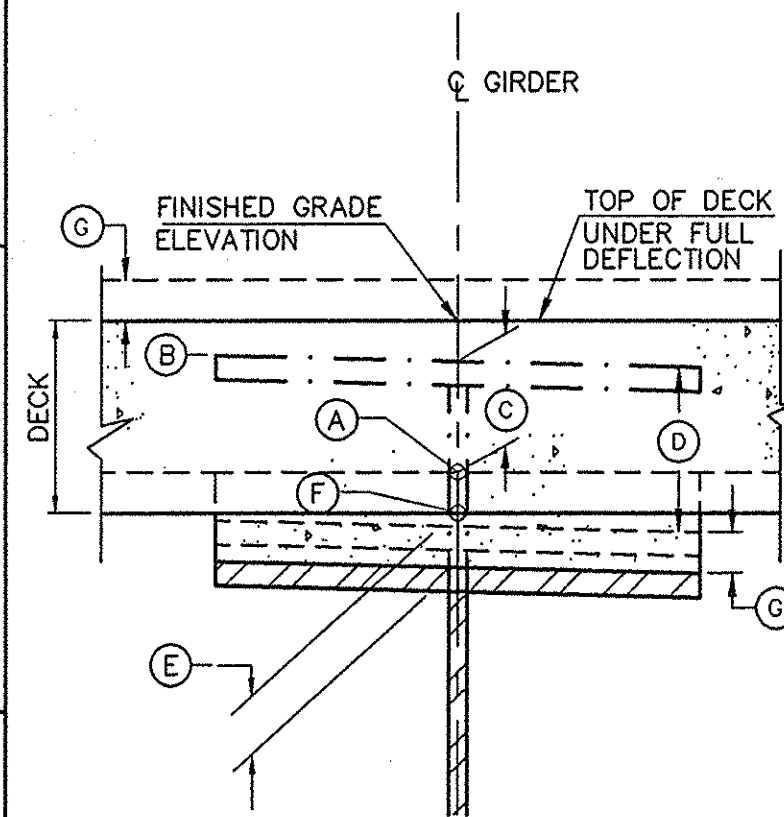
NOT TO SCALE NOTE: CAMBER DIMENSIONS ARE IN MILLIMETERS.

GIRDER CAMBER TABLE

CAMBER	Q SO. ABUT.	0.1L ₁	0.2L ₁	0.3L ₁	0.4L ₁	0.5L ₁	0.6L ₁	0.7L ₁	0.8L ₁	0.9L ₁	Q PIER	0.1L ₂	0.2L ₂	0.3L ₂	0.4L ₂	0.5L ₂	0.6L ₂	0.7L ₂	0.8L ₂	0.9L ₂	Q NO. ABUT.
STEEL D.L.	0	7	12	16	17	16	14	10	5	2	0	2	5	10	14	16	17	16	12	7	0
CONCRETE D.L.	0	22	41	53	58	56	46	32	18	5	0	5	18	32	46	56	58	53	41	22	0
SUPERIMPOSED D.L.	0	3	5	7	8	8	7	5	3	1	0	1	3	5	7	8	8	7	5	3	0
VERTICAL CURVE	0	27	52	74	93	109	122	132	139	144	145	144	139	132	123	109	93	75	52	29	0
TOTAL	0	59	110	150	176	189	189	179	165	152	145	152	165	179	190	189	176	151	110	61	0

CAMBER NOTES

- THE CAMBER LABELED "VERTICAL CURVE" IN THE TABLE IS THE CAMBER REQUIRED TO FOLLOW THE VERTICAL CURVE.
- THE CAMBER LABELED "STEEL D.L." IN THE TABLE IS THE CAMBER REQUIRED TO OFFSET THE DEFLECTION DUE TO THE DEAD LOAD WEIGHT OF THE GIRDER AS FABRICATED.
- THE CAMBER LABELED "CONCRETE D.L." IN THE TABLE IS THE CAMBER REQUIRED TO OFFSET THE DEFLECTION DUE TO THE DEAD LOAD WEIGHT OF THE CONCRETE SLAB.
- THE CAMBER LABELED "SUPERIMPOSED D.L." IN THE TABLE IS THE CAMBER REQUIRED TO OFFSET THE DEFLECTION DUE TO THE WEIGHT OF THE CURB, SIDEWALK, RAILING OR BARRIER, AND WEARING SURFACE.
- THE TOTAL CAMBER IS THE SUM OF VERTICAL CURVE, STEEL DEAD LOAD, CONCRETE DEAD LOAD AND SUPERIMPOSED DEAD LOAD. ALL CAMBER OFFSETS ARE MEASURED VERTICALLY TO THE TOP OF THE WEB, FROM A STRAIGHT REFERENCE LINE DRAWN FROM THE INTERSECTION OF THE TOP OF THE WEB AND THE CENTERLINE OF THE BEARINGS AT ONE END OF THE GIRDER, TO THE CORRESPONDING POINT AT THE OTHER END OF THE GIRDER.
- POSITIVE NUMBERS IN THE TABLE ARE ABOVE THE STRAIGHT REFERENCE LINE.
- NEGATIVE NUMBERS IN THE TABLE ARE BELOW THE STRAIGHT REFERENCE LINE.
- THE CAMBER OFFSETS ARE TABULATED IN MILLIMETERS.



GIRDER HAUNCH DETAIL

N.T.S.

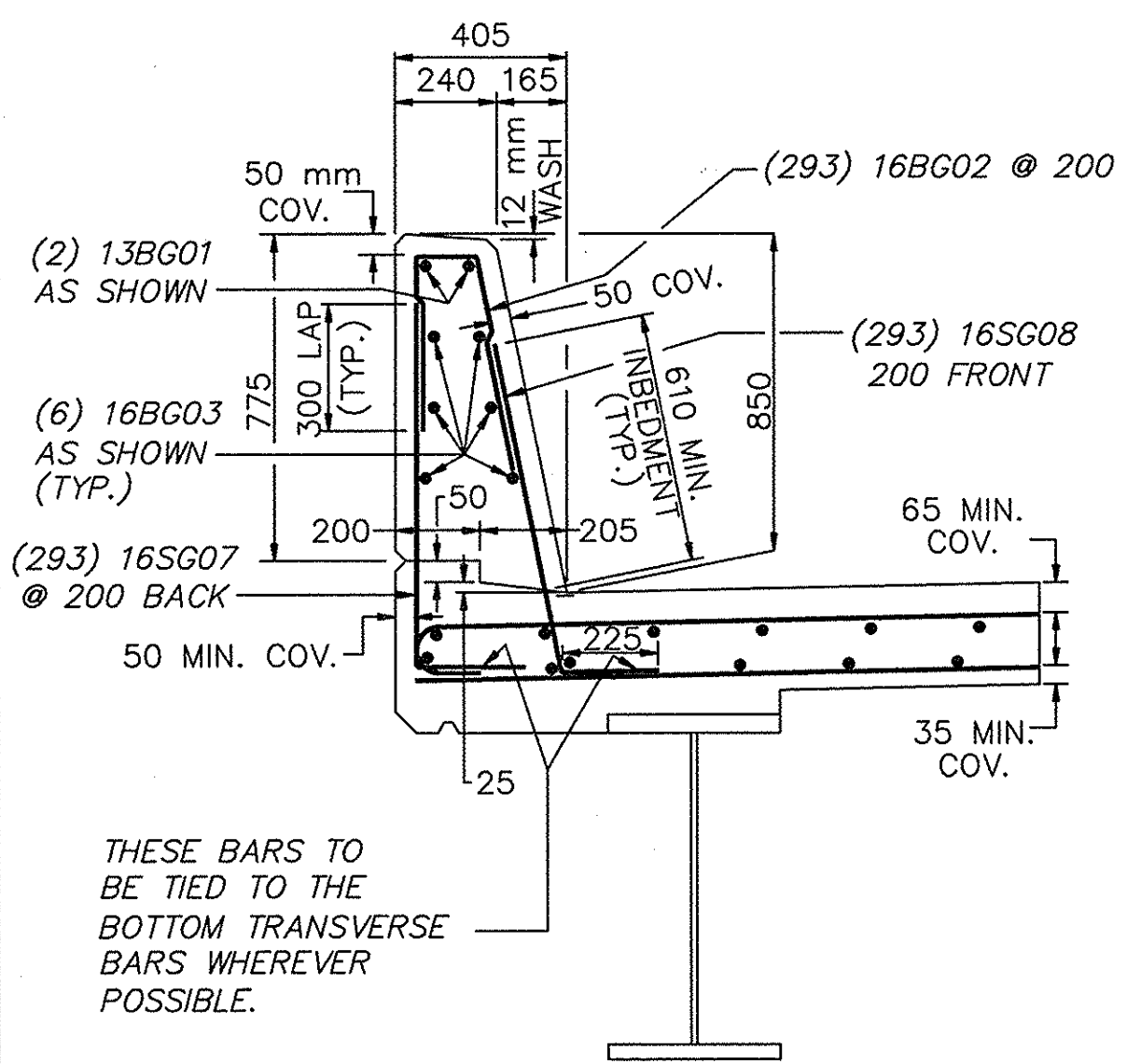
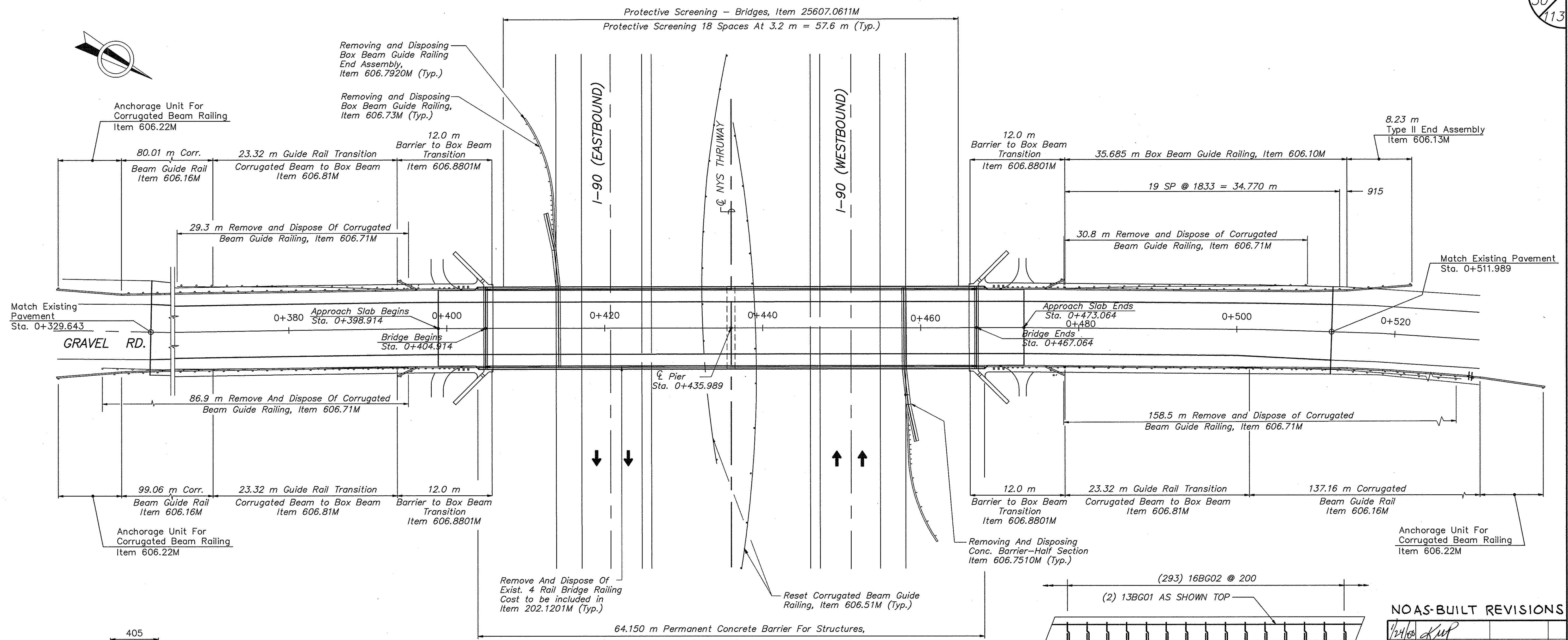
LEGEND

- — — INITIAL POSITION (BEAM D.L. ONLY)
- — — INTERMEDIATE POSITION (BEAM + DECK D.L.)
- — — FINAL POSITION (TOTAL D.L. + S.D.L.)

NOTES:

- (A) & (F) TAKEN AT CL OF GIRDER.
- (E) - GIRDER HAUNCH, IS TAKEN AT CL OF GIRDER.







CHECKED BY: Antonio R. Madala
DESIGNED BY: James E. Evenden / Wayne A. Ego
IN CHARGE OF: Antonio R. Madala
DATE: 03-25-1998

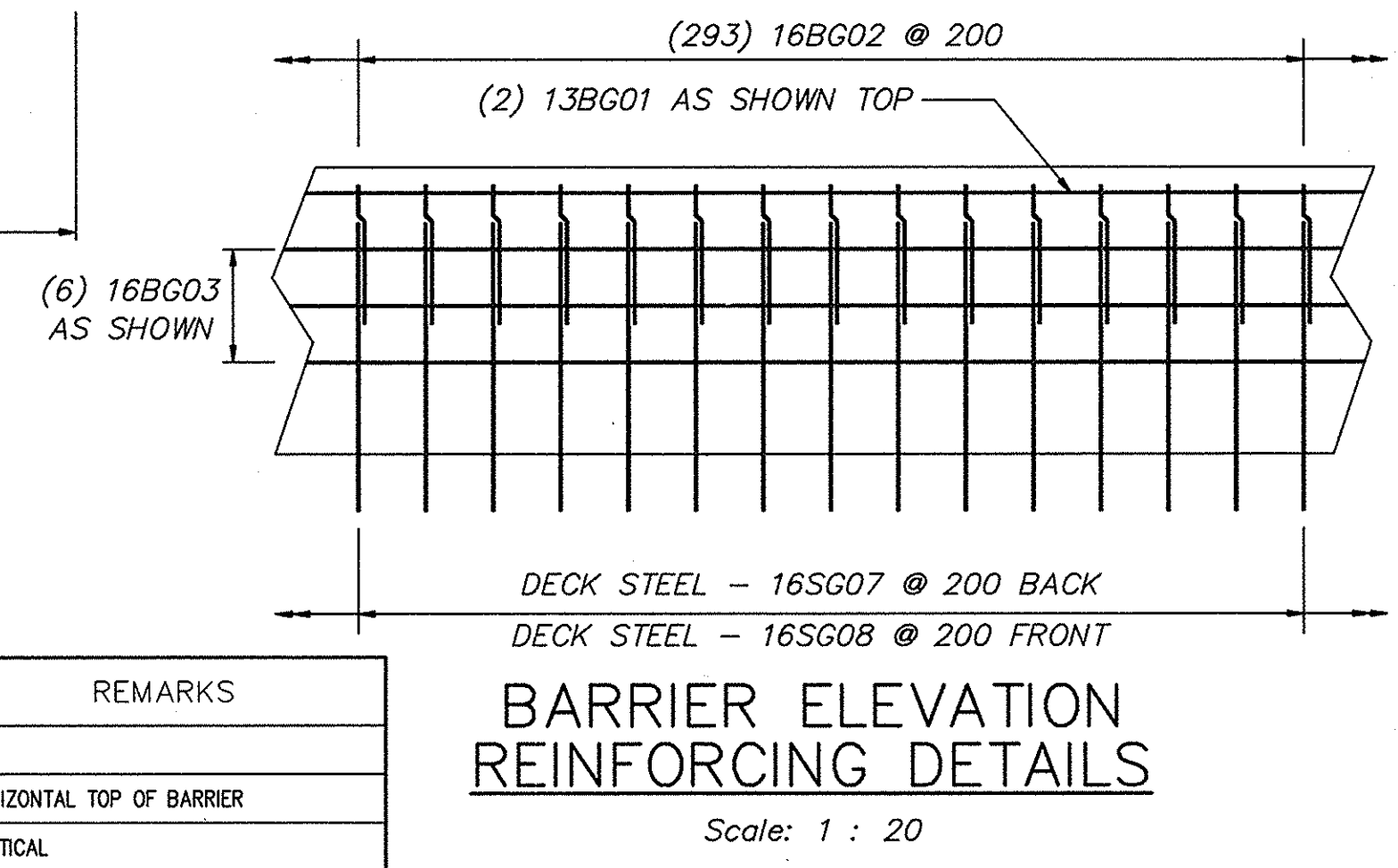


SINGLE SLOPE CONCRETE FASCIA BARRIER
Scale: N.T.S.

NOTE: PROTECTIVE SCREENING (BRIDGES) IS NOT SHOWN. SEE PROTECTIVE SCREENING DETAILS IN COMMON DRAWINGS.

EXISTING GUIDE RAIL REMOVAL AND NEW GUIDE RAIL INSTALLATION
Scale: 1 : 250

MARK	SIZE	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H ₁	H ₂	J	K K ₁	K ₂	L	O	R	REMARKS	
WEST FASCIA BARRIER																						
13BG01	13	14	9.83 m	STR	137																HORIZONTAL TOP OF BARRIER	
13BG02	13	303	1.16 m	16	350		450	130	580					575			110			240	VERTICAL	
16BG03	16	36	9.97 m	STR	557																HORIZONTAL FRONT AND BACK	
16BG04	16	24	900	17	34		380	140	380												VERTICAL AT BARRIER TRANSITION	
16BG05	16	6	9.97 m	5	93		8.07 m	200	1.7 m				80			195					HORIZONTAL FRONT FACE AT TRANSITION	
			subtotal = 1,171 kg																			
EAST FASCIA BARRIER																						
13BG01	13	14	9.83 m	STR	137																HORIZONTAL TOP OF BARRIER	
13BG02	13	303	1.16 m	16	350		450	130	580					575			110			240	VERTICAL	
16BG03	16	36	9.97 m	STR	557																HORIZONTAL FRONT AND BACK	
16BG04	16	24	900	17	34		380	140	380												VERTICAL AT BARRIER TRANSITION	
16BG05	16	6	9.97 m	5	93		8.07 m	200	1.7 m				80			195					HORIZONTAL FRONT FACE AT TRANSITION	
			subtotal = 1,171 kg																			
Total = 2,342 kg (cost included in price bid for Barrier Item)																						



BARRIER ELEVATION REINFORCING DETAILS
Scale: 1 : 20

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

Professional Engineer Seal for William F. Kubera, Jr., P.E., No. 080631, State of New York. Date: 3-26-98.

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.
12/1/90	KUP		

REVISIONS

BRYANT ASSOCIATES, P.C.
Engineers - Surveyors
SINCE 1946

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

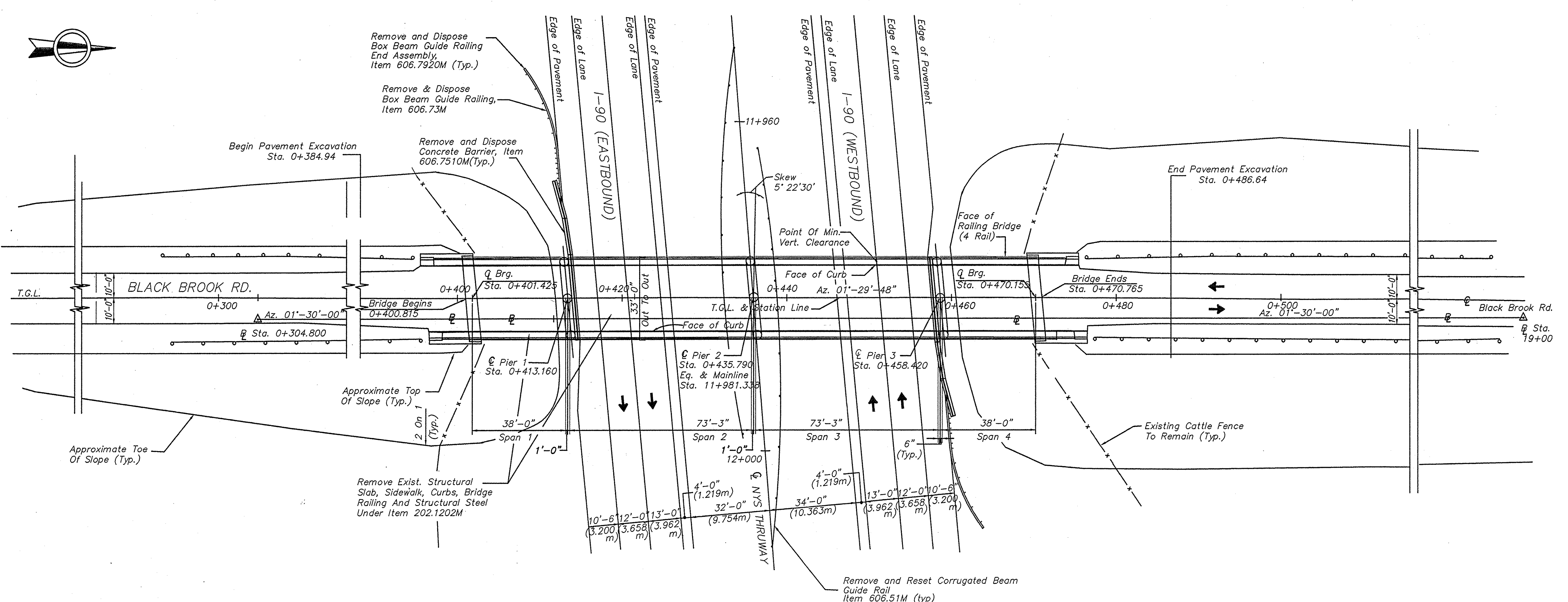
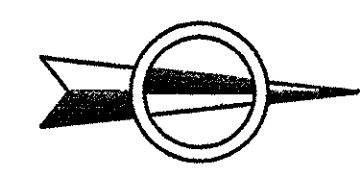
TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA - MP 317.46
GRAVEL ROAD

EXISTING AND PROPOSED GUIDE RAIL PLAN

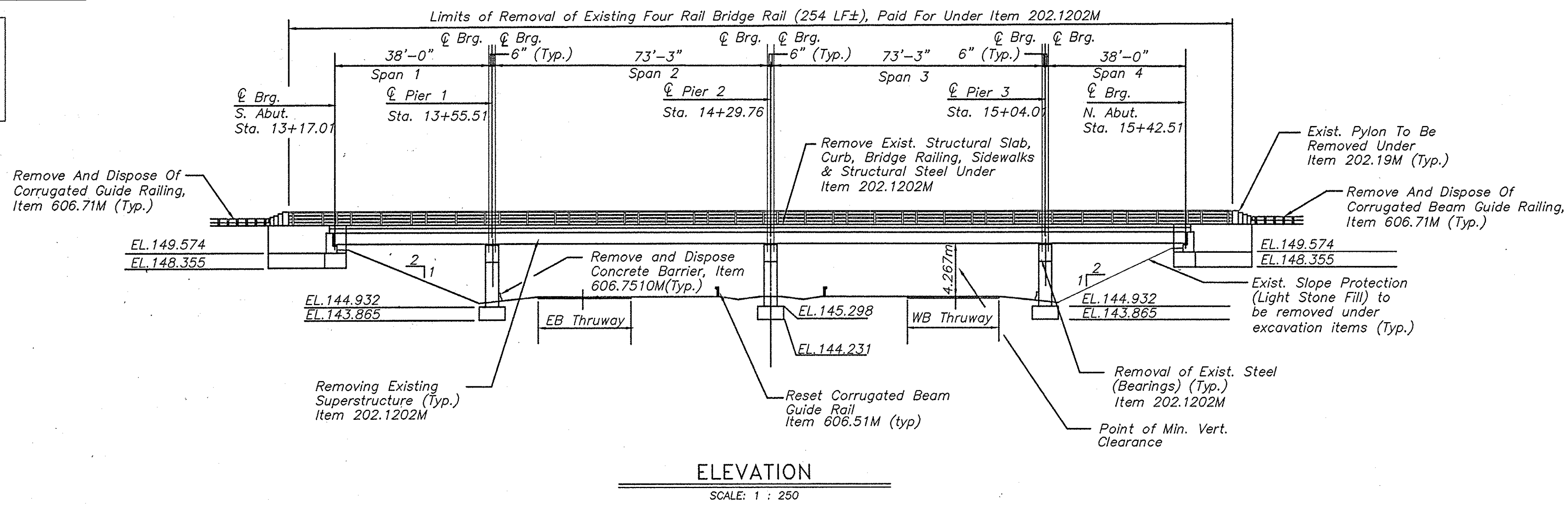
Contract Number: TAS 98-8B
Date: MAR. 1998
Drawing Number: A19

CONTRACT NUMBER:	TAS 98-8B
DATE:	MAR. 1998
DRAWING NUMBER:	A20



M.P. 319.19 BENCH LIST		
BENCH I.D.	ELEVATION	DESCRIPTION
BM #1	150.050	R.R. Spk. In 16" Ash
BM #2	143.914	R.R. Spk. In 8" Willow
TBM #1	147.096	S.E. Cr. Conc. Barrier S.EPS @ EB Lane

NOTICE:
EXISTING BORING LOCATIONS AND LOGS ARE LOCATED IN THE FOUNDATION REPORT AVAILABLE AT THE ALBANY HEADQUARTERS STRUCTURES DESIGN BUREAU.



NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.
12/1/00	Rev		

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 319.19
BLACK BROOK ROAD

TITLE OF DRAWING
EXISTING PLAN
AND ELEVATION

CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
B1

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

SCALE: 1 : 250

SCALE: 1 : 125

B2

IN CHARGE OF: *Paul A. White*
DESIGNED BY: *XX*
DRAFTED BY: *XX*
CHECKED BY: *XX*
F-5 BRIDGES MP 319.19 EST

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
202.1202M	REMOVE EXISTING SUPERSTRUCTURE	LS	NEC	100.00
900.9808	A-SILT FENCE	M	—	71.60
202.19M	REMOVAL OF SUBSTRUCTURES	CM	93.0	154.49
901.9808	A-INSTALL PIER BEARING TIE-DOWN BRACKETS	EA	—	10.00
203.02M	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	172.0	167.36
902.9808	A-GEOTEXTILE BEDDING	SM	—	130.24
17203.0801M	SLCT GRANLR FLL, SLP PROT STRS	CM	43.0	81.77
905.9808	FA-AUGER & INSTALL H-PILES AT N & S ABUTMENTS BLACK BROOK ROAD	LS	—	100.00
203.21M	SELECT STRUCTURE FILL	CM	590.0	573.77
206.01M	STRUCTURE EXCAVATION	CM	585.0	602.85
209.01M	TEMP. SOIL EROSION AND WATER POLLUTION CONTROL	FLS	0.2	0.00
304.03M	SUBBASE COURSE TYPE 2	CM	111.0	64.81
403.11M	ASPHALT CONCRETE TYPE 1 BASE COURSE	MT	11.0	45.35
403.13M	ASPHALT CONCRETE-TYPE 3 BINDER COURSE	MT	14.0	49.82
403.17M	ASPH CONC - TYPE 6F TOP COURSE (HIGH FRICTION)MARSHALL DESIGN	MT	37.0	74.80
906.9808	A-KADAR DETECTOR ACTIVATOR	LS	—	20.00
407.01M	TACK COAT	L	64.0	66.97
908.9808	A-PROT. SCREENING FOR BRIDGES, ALTERNATE POST MOUNTING	EA	—	38.00
490.30M	MISC. COLD MILL OF BIT CONC.	SM	200.0	180.00
909.9808	A-ADDITIONAL SIGN SERIES	LS	—	20.00
25502.5001M	SAWCUTTING OF ASPHALT CONCRETE	M	54.0	95.48
910.9808	FA-RESET ROW FENCING AT BLACK BROOK BRIDGE & NINE FOOT ROADS	LS	—	33.00
551.09M	FURNISHING EQUIPMENT FOR DRIVING PILES	LS	NEC	20.00
551.14M	DYNAMIC PILE TESTING	EA	3.0	6.00
551.1001M	STEEL BEARING PILES (HP 250 X 62)	M	332.0	477.93
911.9808	A-PLANTING VIBURNUM TOMENTOSUM	EA	—	16.00
552.05M	SAFE OPERATE SHEET PILING	SM	196.0	0.00
25555.0101M	CONCRETE FOR STRUCTURES-CLASS HP	CM	257.0	255.49
25555.0466M	HI PERF. CONC. FOR STRUC CL HP (ST SLAB W/ INT WEAR SUR BFR)	SM	643.0	643.00
25555.0468M	HP CONC FOR STRUCT, CLASS HP (STR APP SLAB W/INT WEAR SURF)	SM	100.0	100.00
556.03M	STUD SHEAR CONNEC. FOR BRIDGES	EA	2490	2625.00
25556.99M	GALV. BAR REINFORCMENT FOR STR	KG	46 188	47783.80
558.01M	TRANSVR SAWCUT GROOVE STR SLAB	SM	646.0	646.00
25559.1696M	PROT. SEAL OF STRUC. CONCRETE	SM	1324.0	1324.00
25564.519802M	TRANS. & ERECT. OF STRUCT. STEEL	LS	NEC	100.00
565.1722M	TYPE M.R. FIXED BEARINGS	EA	5	5.00

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
25569.02M	PERM. CONC. BARRIER CLASS HP	M	128.6	130.80
570.0902M	ENV. GROUND PROTECTION	LS	NEC	0.00
571.0101M	TREAT. & DISP. OF PAINT REM. WASTE	CM	0.2	0.00
605.1001M	UNDERDRAIN FILTER TYPE 2	CM	47.0	32.16
606.16M	CORRUGATED BEAM GUIDE RAILING	M	339.0	342.90
606.22M	ANCHORAGE UNIT FOR CORR. BM. G.R.	EA	4	4.00
606.51M	RESETTING CORR. BEAM GUIDE RAILING	M	116.0	99.06
606.71M	REM. & DISP. CORR. BM. G.R.	M	265.0	263.71
606.73M	REM. & DISP. BOX BM. GUIDE RAILING	M	113.0	109.56
606.7510M	REM. & DISP. CONC. BARR. HALF SEC.	M	49.0	40.24
606.7920M	REM. & DISP. BX. BM. END ASSEMBLY	EA	2	2.00
606.81M	G.R. TRANS. CORR. BM. TO BOX BM.	EA	4	4.00
606.8801M	BOX BM. G.R. TRANS. TO CONC. BARR.	EA	4	4.00
25607.0611M	PROTECTIVE SCREENING BRIDGES	M	115.2	115.20
609.0201M	STONE CURB - GRANITE (TYPE A)	M	21.2	18.80
611.034163M	PLANTING PINUS NIGRA	EA	8	8.00
611.046342M	PLANTING RHUS AROMATICA	EA	112	112.00
611.049662M	PLANTING VIBURNUM TOMENTOSUM	EA	16	0.00
619.01M	BASIC MAINTENANCE & PROTECTION OF TRAFFIC	LS	NEC	20.00
619.02M	CONSTRUCTION SIGNS	LS	NEC	20.00
619.0303M	FLASHING ARROW BOARDS	LS	NEC	20.00
619.0413M	TYPE III CONSTRUCT. BARRICADES	M	20.0	16.00
619.0502M	LIGHTING FOR CONST. BARRICADES	M	12.0	12.00
25619.1701M	TEMPORARY CONCRETE BARRIER	M	195.0	268.00
25619.1704M	CONCRETE BARRIER MARKERS	EA	8	16.00
25637.070102M	ENGINEER'S OFFICE - TYPE C	MOS	4.0	3.70
699.04M	MOBILIZATION	LS	NEC	20.00

FINAL QUANTITIES SHOWN
NEW ITEMS LISTED

12/100	Summit W. Parker		
DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 319.19
BLACK BROOK ROAD

TITLE OF DRAWING

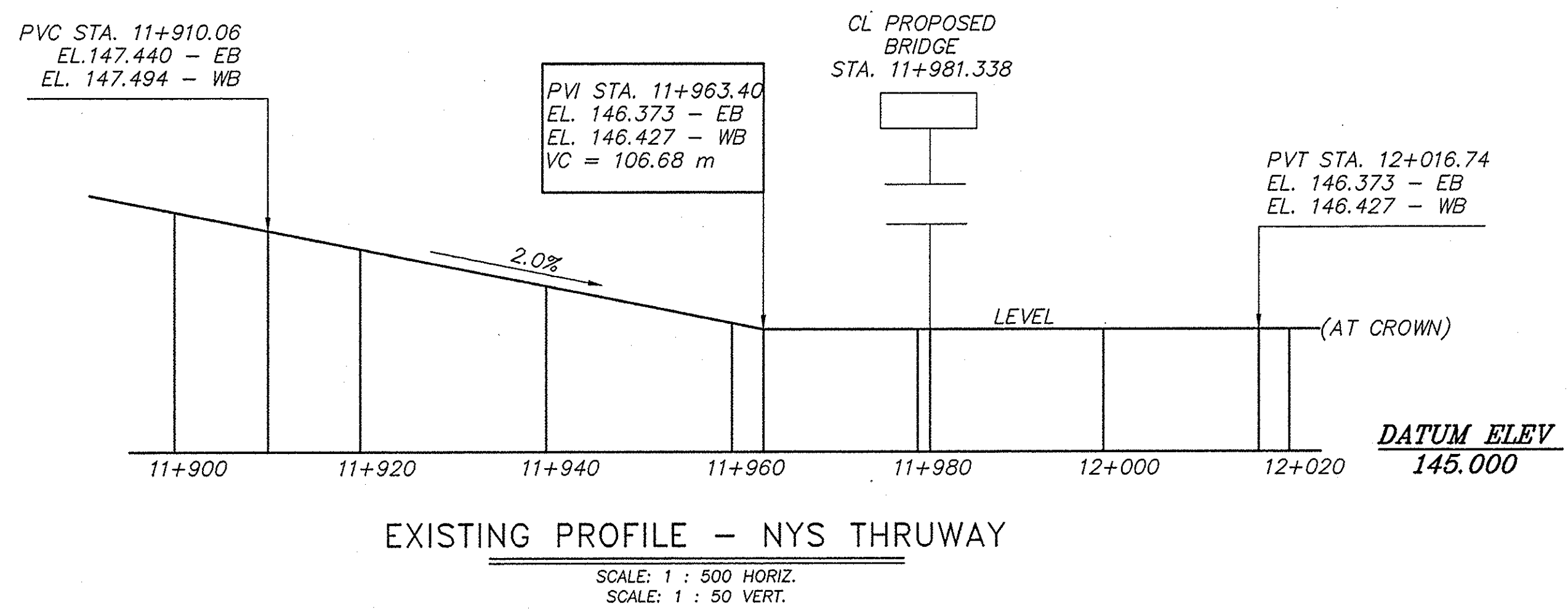
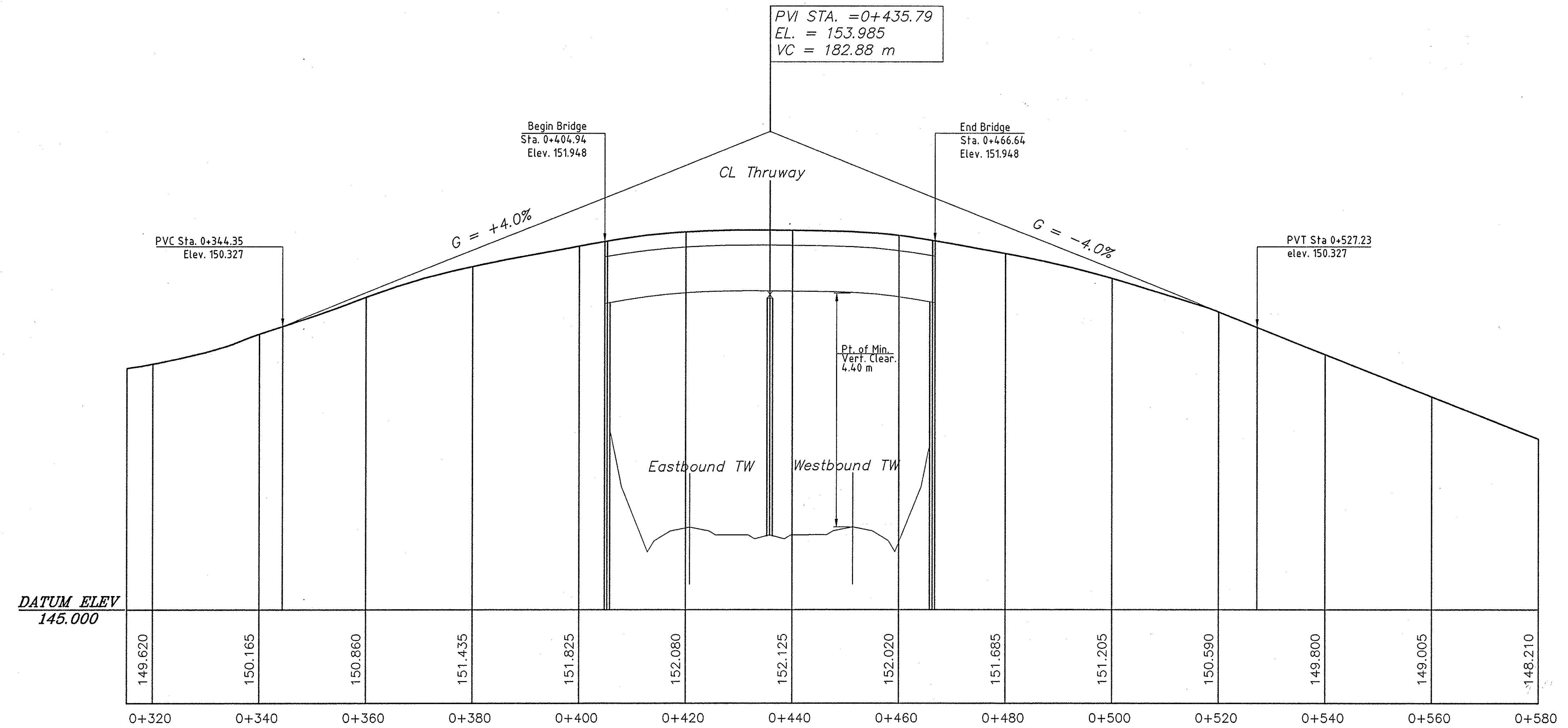
ESTIMATE OF QUANTITIES



CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
B3



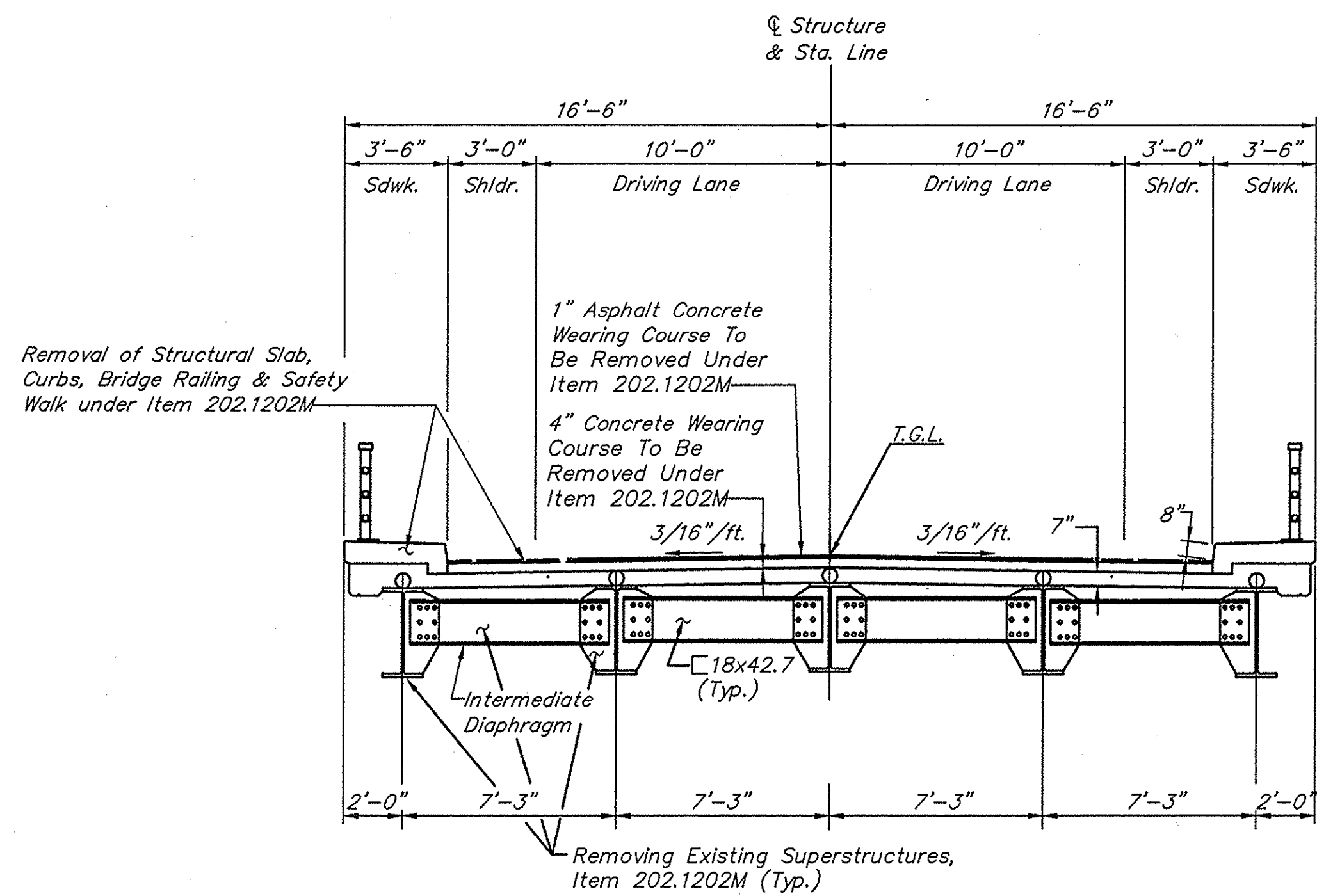
NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

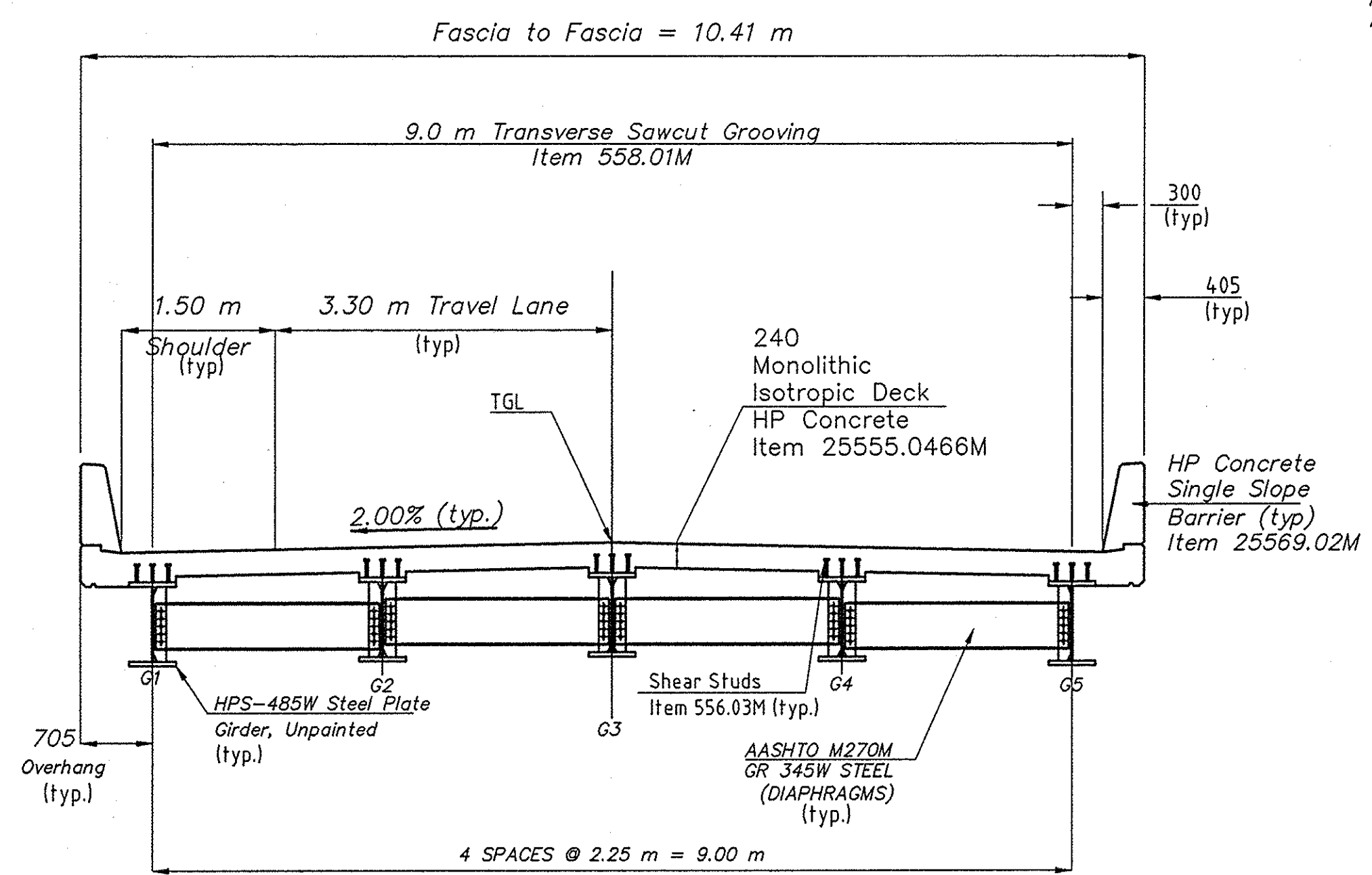
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT MP 319.19 BLACK BROOK ROAD			
TITLE OF DRAWING PROFILES			

	CONTRACT NUMBER: TAS 98-8B
	DATE: 3/98
	DRAWING NUMBER: B4

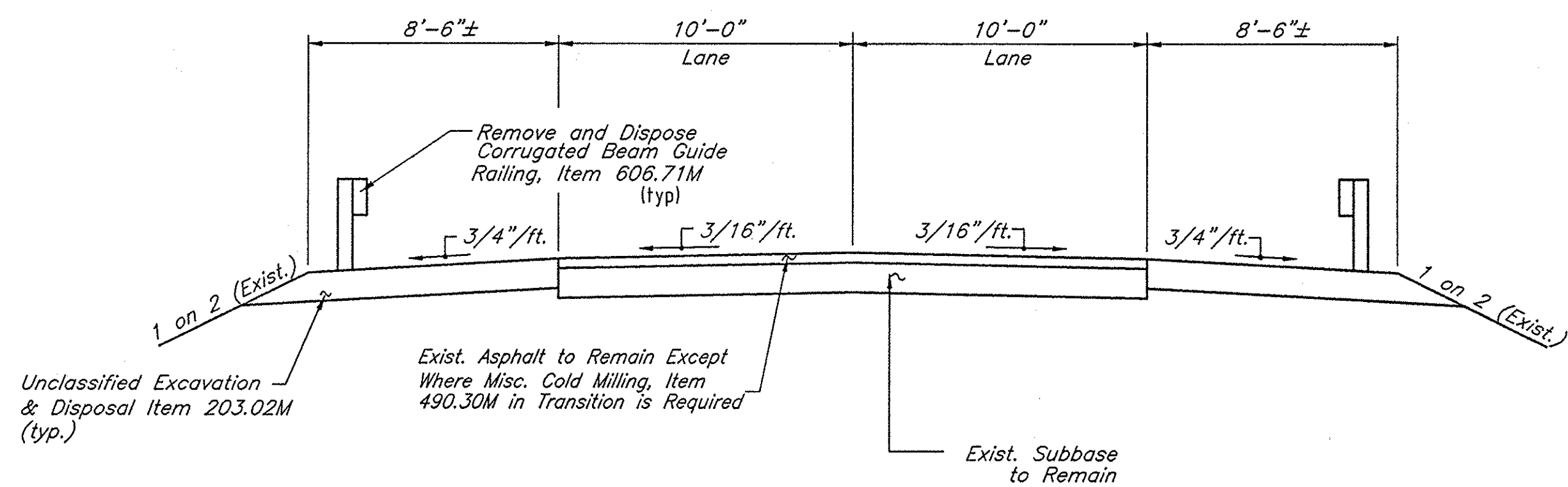
Note: All dimensions are shown in millimeters unless otherwise noted. All elevations are shown in meters.



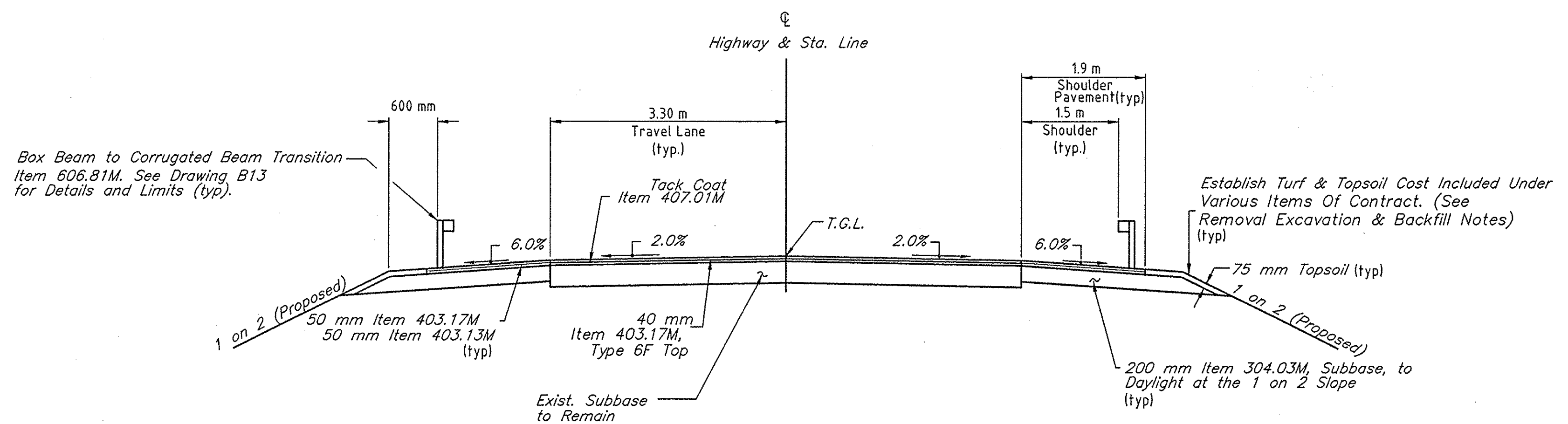
EXISTING BRIDGE SECTION
Scale: 1/4" = 1'-0"



PROPOSED BRIDGE SECTION
Scale: 1 : 50



EXISTING HIGHWAY SECTION
Scale: 1/4" = 1'-0"



PROPOSED HIGHWAY SECTION
Scale: 1 : 50
@ "Begin Approach Slab" and "End Approach Slab".

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.


REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 319.19
BLACK BROOK ROAD

TITLE OF DRAWING
EXISTING AND PROPOSED
BRIDGE AND HIGHWAY
SECTIONS

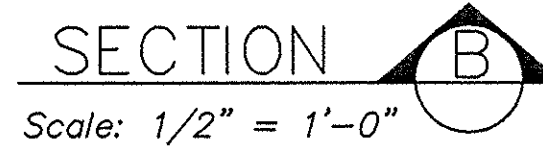
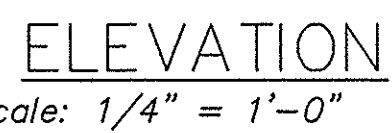
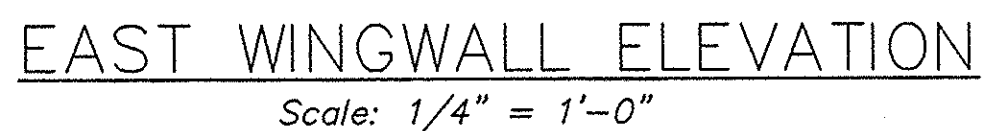


CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
B5

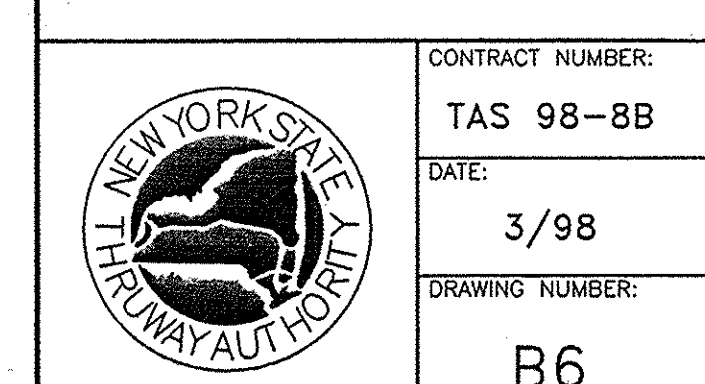
NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

[illegible]

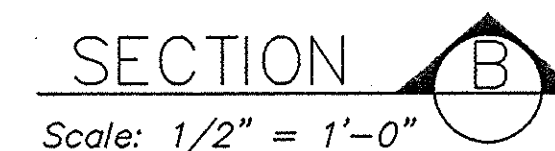
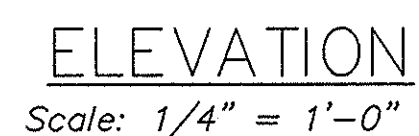
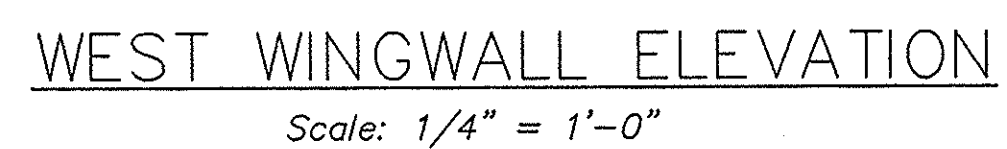
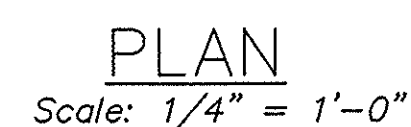
REVISIONS				


TITLE OF PROJECT	5 BRIDGE REPLACEMENTS
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TITLE OF DRAWING
EXISTING SOUTH ABUTMENT
REMOVAL DETAILS

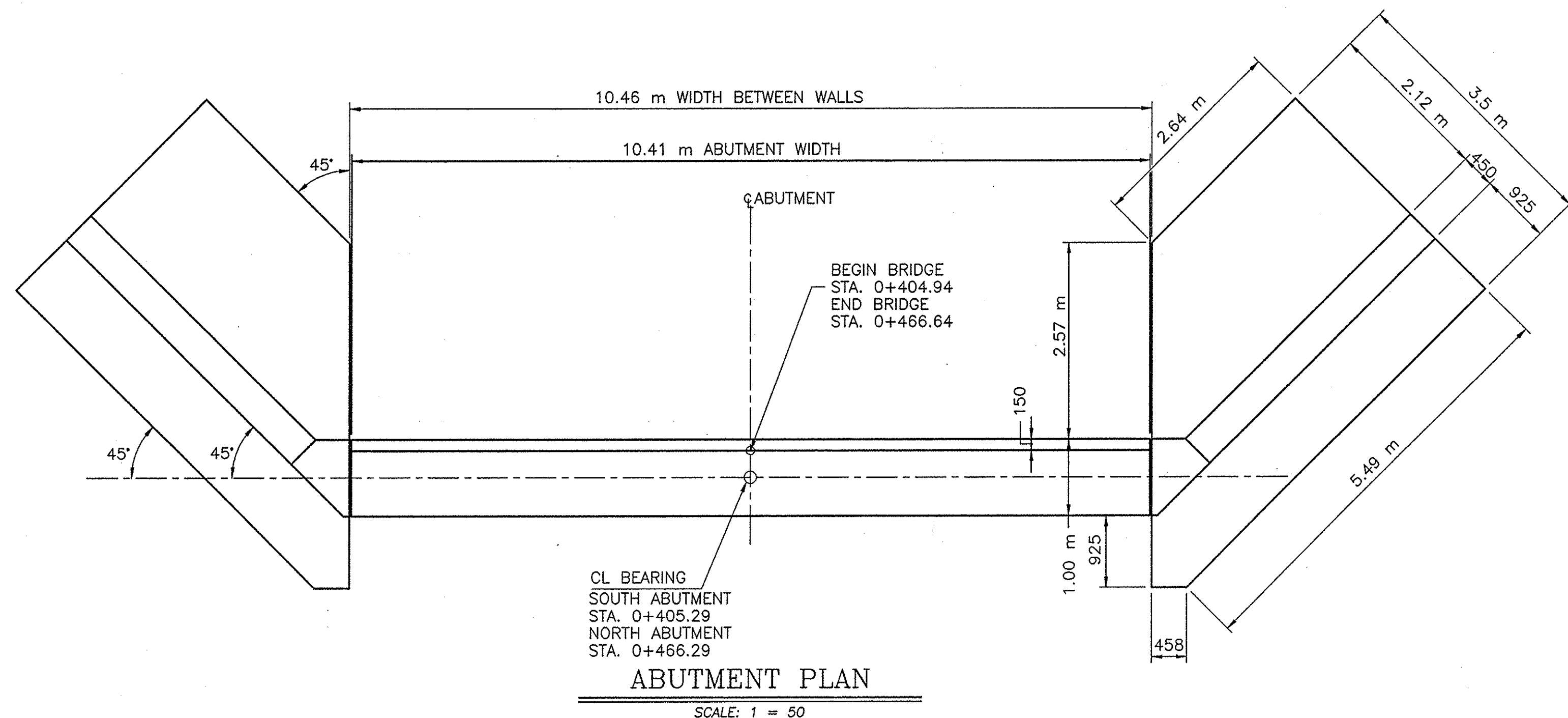


NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH UNITS.
ALL ELEVATIONS ARE SHOWN IN METERS.

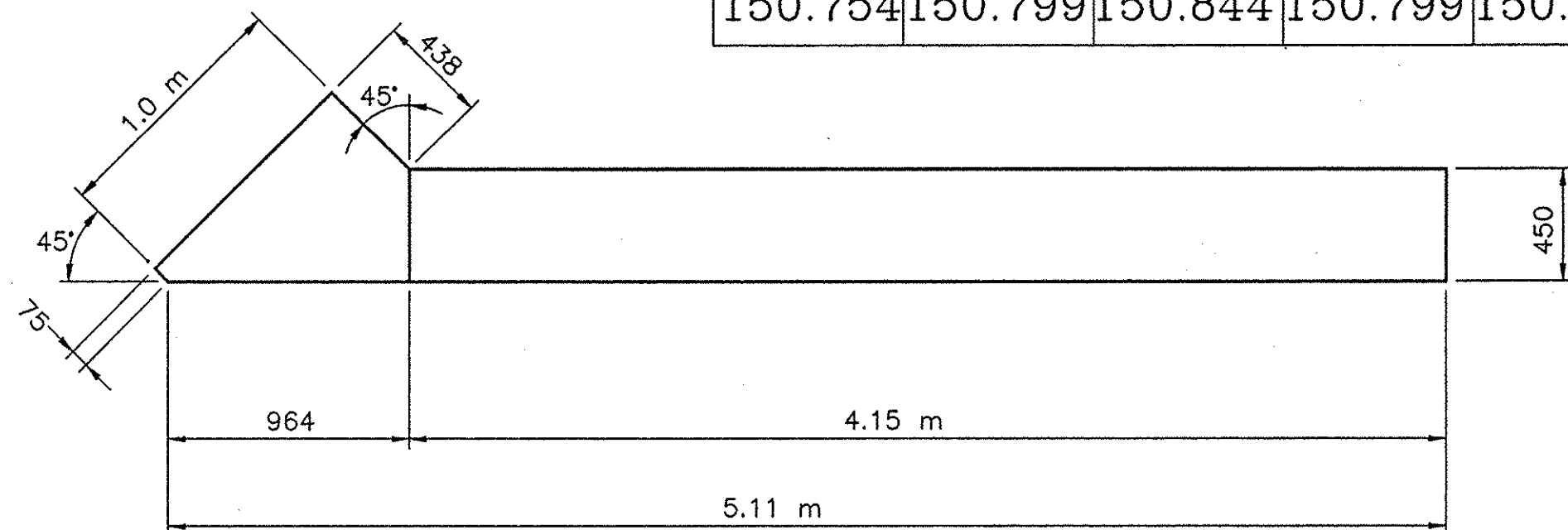


	CONTRACT NUMBER:
	TAS 98-8B
	DATE:
	3/98
	DRAWING NUMBER:
	B7

NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH UNITS.
ALL ELEVATIONS ARE SHOWN IN METERS.



MORTAR PAD ELEVATIONS				
G1	G2	G3	G4	G5
150.754	150.799	150.844	150.799	150.754



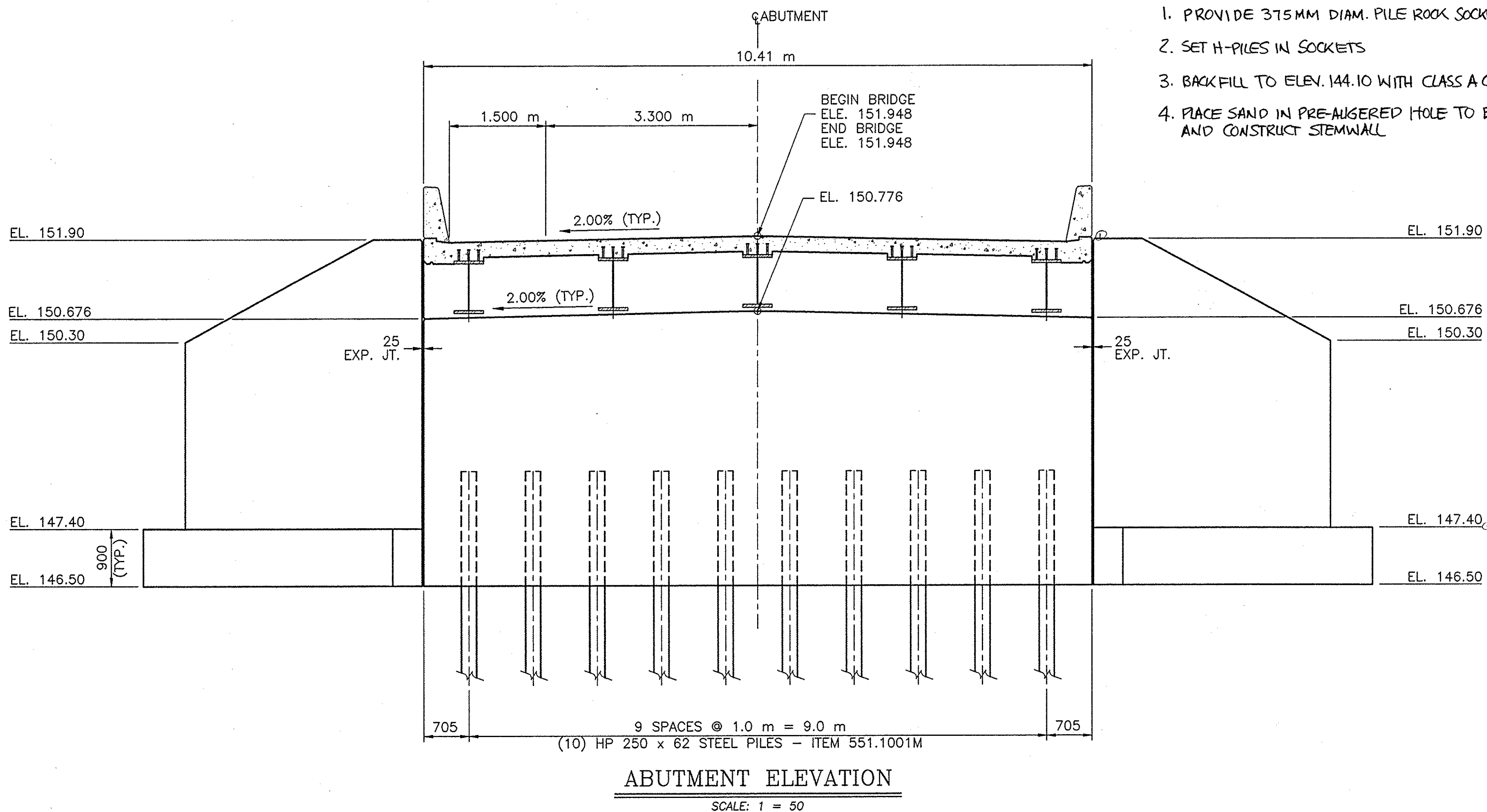
H-PILE NOTES: (INSTALLATION PROCEDURE USED DUE TO ROCK ENCOUNTERED AT BOTH ABUTMENTS)

1. PROVIDE 375 MM DIAM. PILE ROCK SOCKETS TO ELEV. 140.50
2. SET H-PILES IN SOCKETS
3. BACKFILL TO ELEV. 144.10 WITH CLASS A CONCRETE
4. PLACE SAND IN PRE-AUGERED HOLE TO ELEV. 146.50 AND CONSTRUCT STEMWALL

FOUNDATION NOTES CONT.

1. IF ANY PORTIONS OF THE ABANDONED EXISTING SUBSTRUCTURES ARE WITHIN A 1.0 METER LATERAL LIMIT OF THE PROPOSED FOOTINGS, THEY SHALL BE COMPLETELY REMOVED IN THIS AREA. THE PORTION OF THE ABANDONED EXISTING SUBSTRUCTURES WHICH ARE BEYOND THIS LATERAL LIMIT SHALL BE REMOVED TO A DEPTH OF 600 mm LOWER THAN THE PROPOSED ROADWAY SUBGRADE OR 300 mm BELOW THE FINISHED GROUND LINE. BACKFILL OF THESE EXCAVATIONS SHALL BE WITH AN APPROPRIATE BACKFILL MATERIAL.
2. THE PILES AT EACH INTEGRAL ABUTMENT SHALL BE INSERTED IN PREAUGERED 500 MILLIMETER DIAMETER HOLES THAT EXTEND 2.4 METERS BELOW THE BOTTOM OF EACH ABUTMENT STEM. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP EACH OF THESE HOLES OPEN DURING THE INSTALLATION OF THE PILES SO THAT CUSHION SAND CAN BE PLACED LOOSELY AROUND EACH PILE FOR THE FULL DEPTH OF THE PREAUGERED HOLE. THE COST OF AUGERING THESE HOLES, CASING, AND CUSHION SAND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PILE ITEM.
3. THE USE OF MECHANICAL PILE SPLICES MAY BE ALLOWED ON THIS STRUCTURE CONTINGENT ON THE FOLLOWING REQUIREMENTS:
 - A. A SEAL WELD SHALL BE PLACED COMPLETELY AROUND THE TOP AND BOTTOM OF THE SPLICER SLEEVE.
 - B. NO SPLICER SLEEVES SHALL BE USED WITHIN 9.0 METERS OF THE PILE TIP.
 - C. USE OF MECHANICAL PILE SPLICES SHALL BE AVOIDED WITHIN 1.6 METERS OF THE CUT-OFF ELEVATION. WHEN THE LENGTH OF THE PILE IS KNOWN PRIOR TO DRIVING, THIS REQUIREMENT SHALL BE STRICTLY OBSERVED.
4. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF BOULDERS IN THE AREA TO BE EXCAVATED OR RETAINED DURING CONSTRUCTION AT THE ABUTMENTS AND PIER. THE CONTRACTOR SHALL GOVERN HIS OPERATIONS AND PROCEDURES ACCORDINGLY, WITHIN THE APPROPRIATE SPECIFICATION ITEMS, INCLUDING THE SELECTION AND POSSIBLE USE OF SHEETING WITH SUFFICIENT SIZE AND SECTION TO WITHSTAND THE EXPECTED HARD DRIVING.
5. THE FOOTING FOR THE WINGWALLS IS DESIGNED TO EXERT A MAXIMUM FOUNDATION PRESSURE OF 207 KPa.
6. THE CONCRETE USED SHALL BE CLASS HP - ITEM 25555.0101M.

NOTE:
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED. ALL ELEVATIONS
ARE SHOWN IN METERS.



H-PILE NOTES ADDED

1/24/00	Kenneth W. Wess		
DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 319.19
BLACK BROOK ROAD

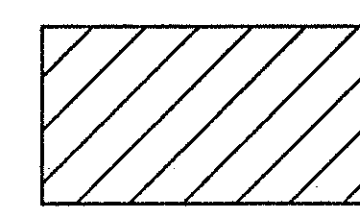
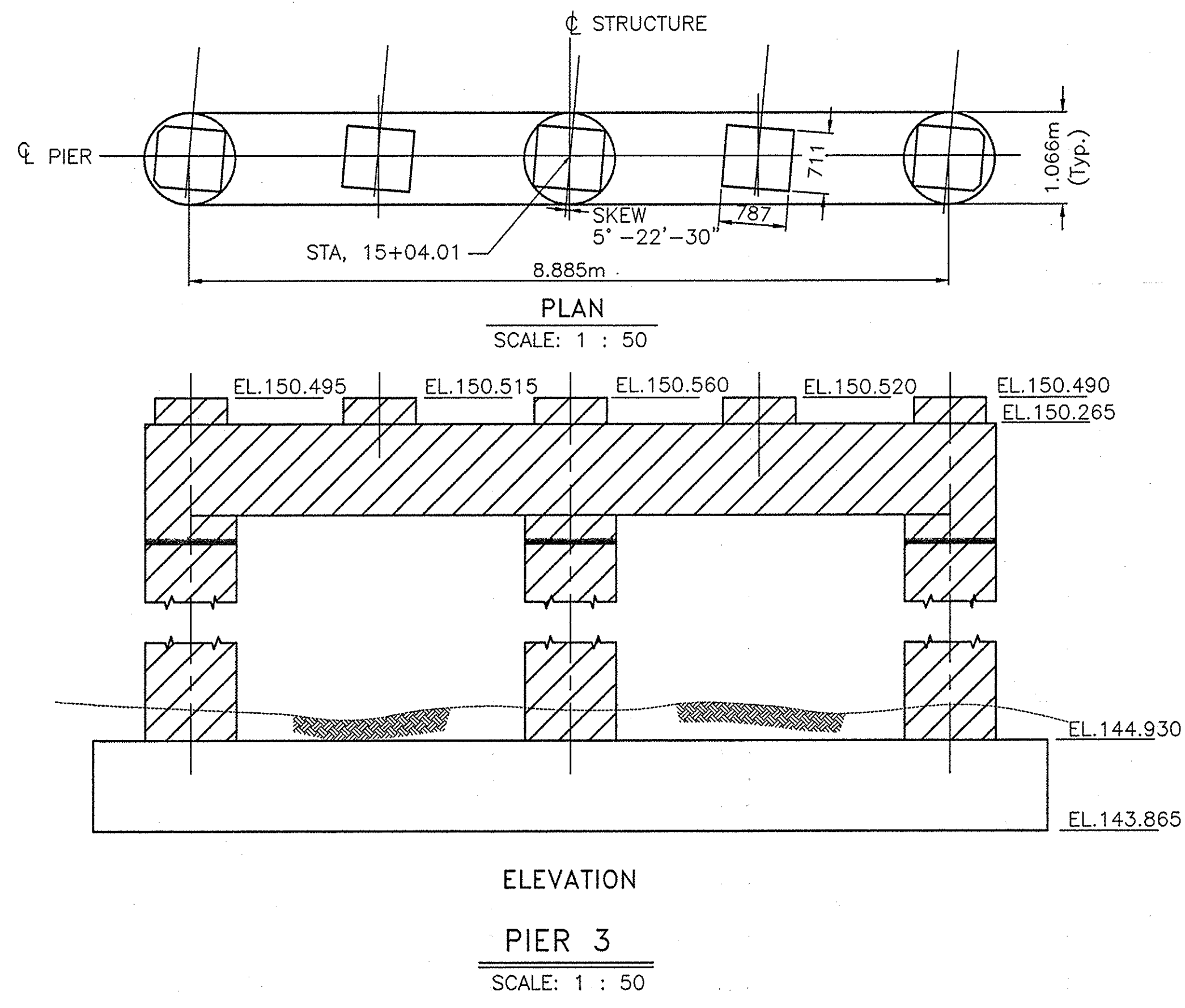
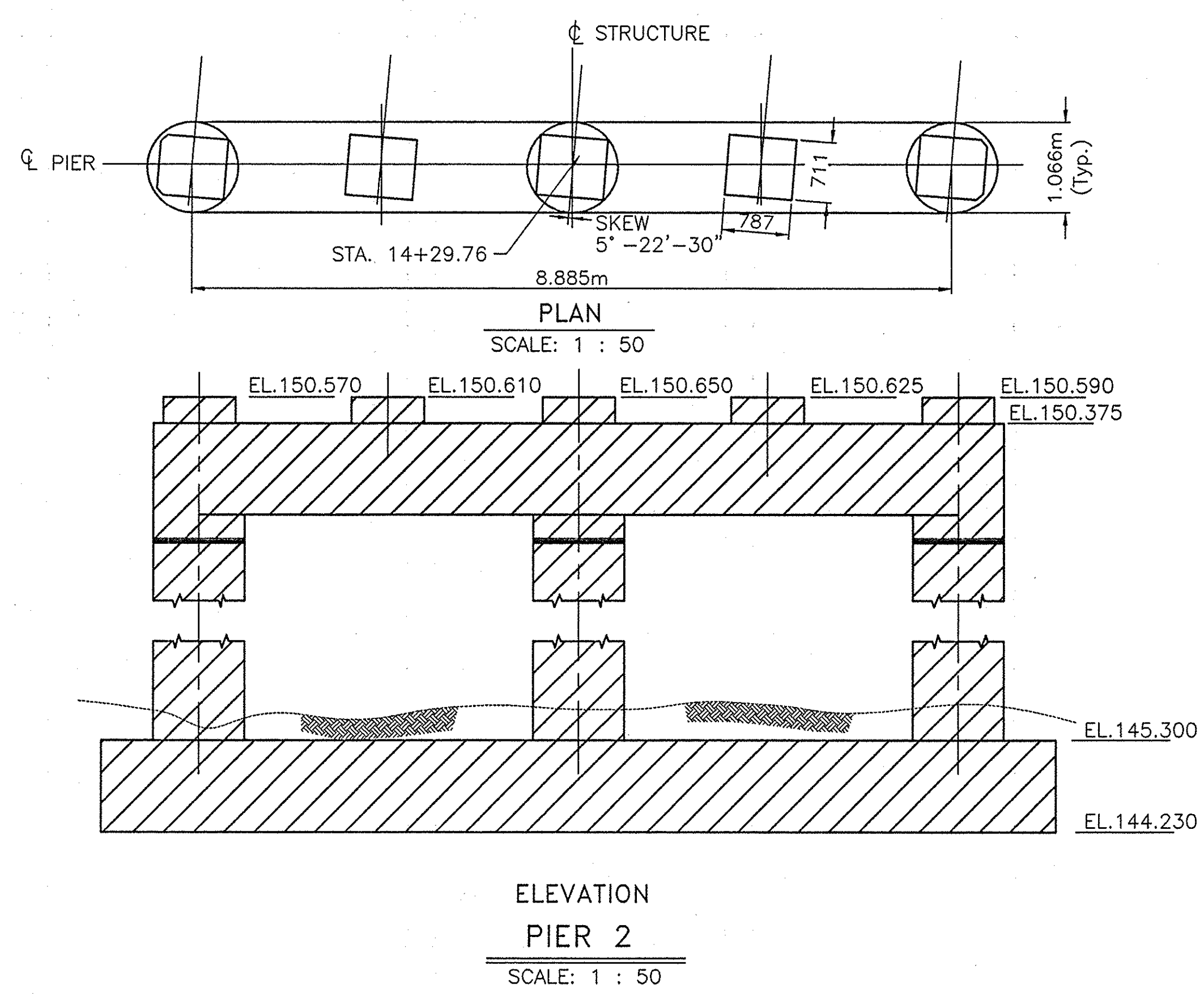
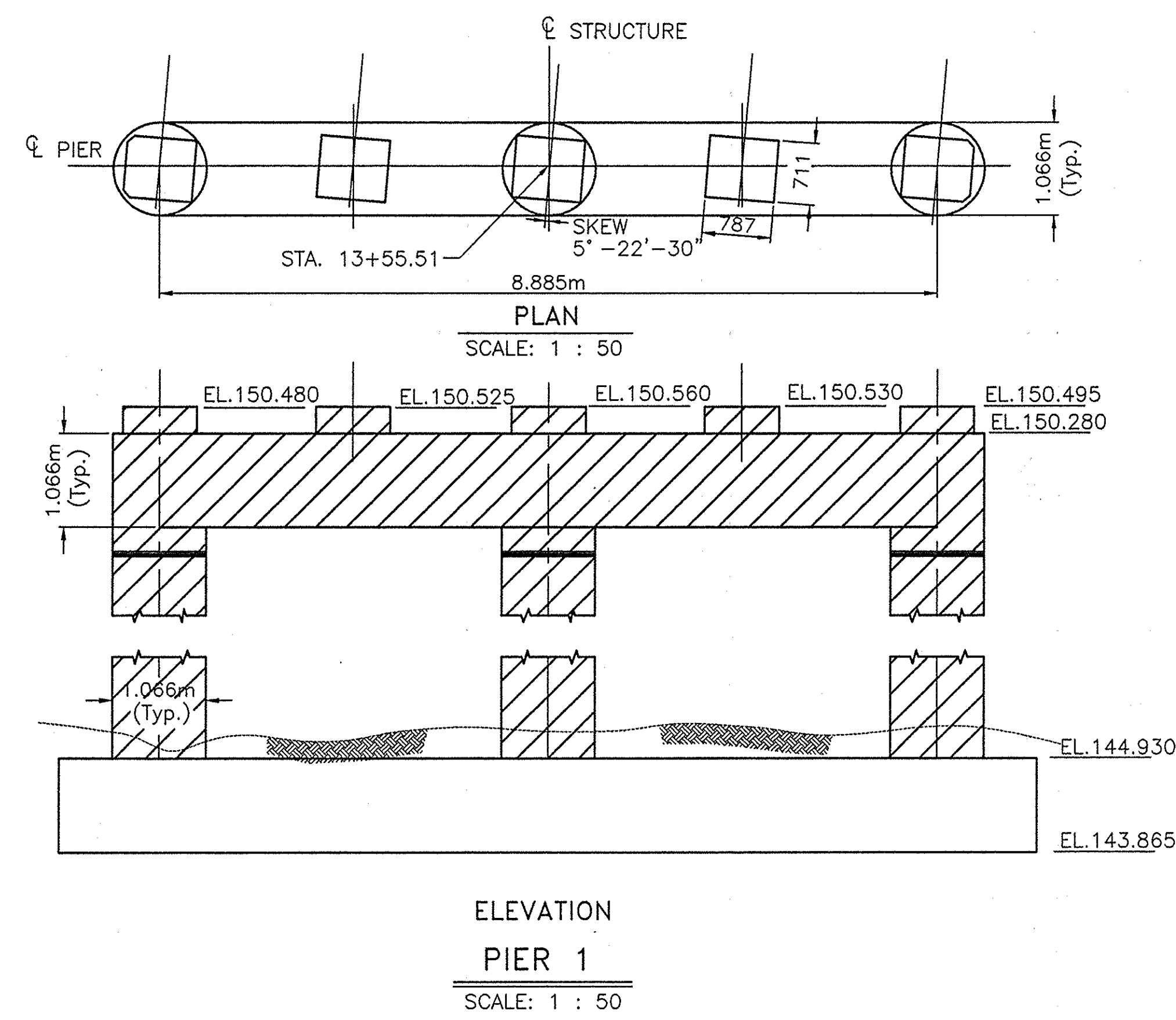
TITLE OF DRAWING
ABUTMENT PLAN
AND ELEVATION



CONTRACT NUMBER:
TAS 98-8B

DATE:
4/98

DRAWING NUMBER:
B8



- SUBSTRUCTURE REMOVAL UNDER ITEM 202.19M
"REMOVAL OF SUBSTRUCTURES"

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED. ALL ELEVATIONS
ARE SHOWN IN METERS.

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.


<p>NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209</p>	
<p>TITLE OF PROJECT 5 BRIDGE REPLACEMENTS</p>	
<p>LOCATION OF PROJECT MP 319.19 BLACK BROOK ROAD</p>	
<p>TITLE OF DRAWING EXISTING PIER REMOVAL DETAILS</p>	
<p>CONTRACT NUMBER: TAS 98-8B</p>	<p>DATE: 3/98</p>
<p>DRAWING NUMBER: B9</p>	

IN CHARGE OF: *Richard A. White*
DESIGNED BY: *[Signature]*
DRAFTED BY: *[Signature]*
CHECKED BY: *[Signature]*
EL. 5 BRIDGES MP 319.19 PIER REMOVAL

		DTG
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Superstructure Total = 23 255 kg

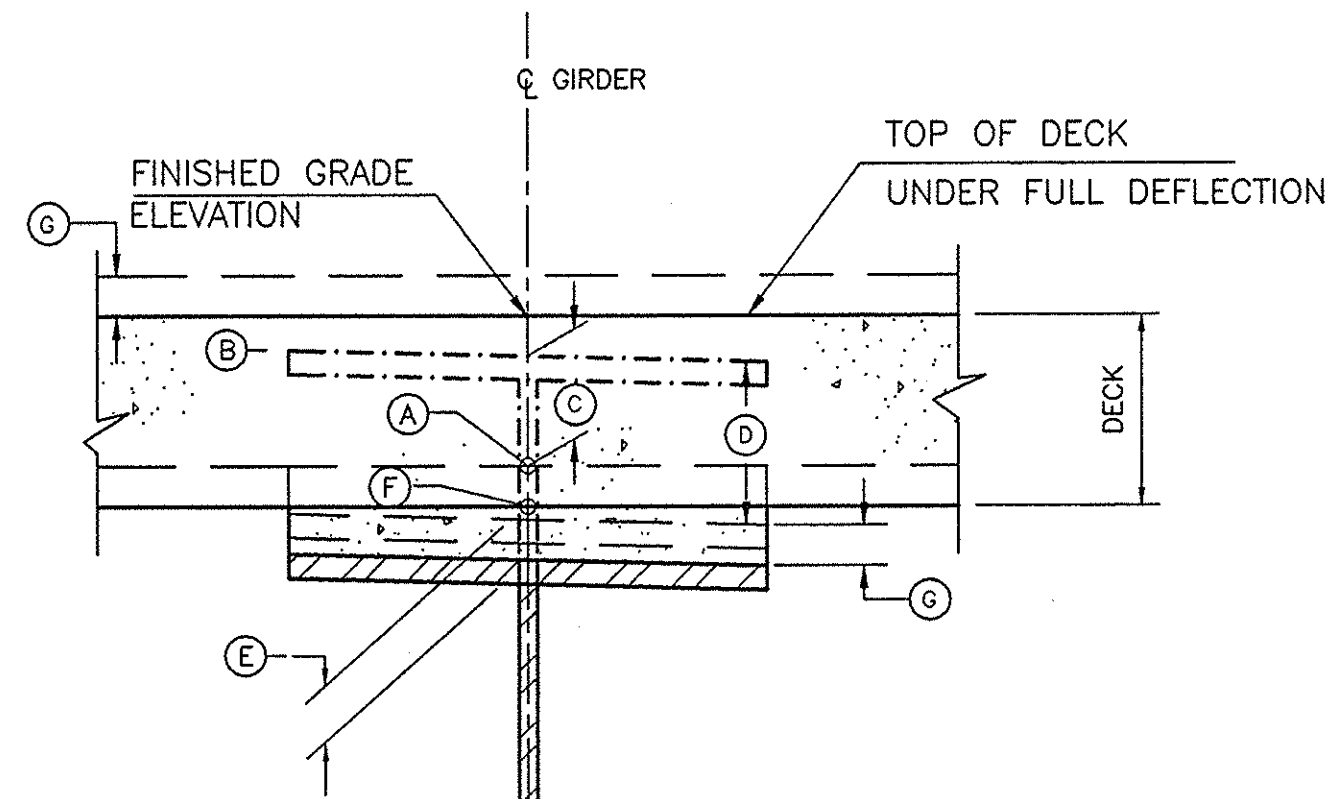
TOTAL MEDIAN PIER = 11 633 kg

	CONTRACT NUMBER:
	TAS 98-8B
	DATE:
	3/98
	DRAWING NUMBER:
	B11

HAUNCH TABLE

HAUNCH TABLE																							
HAUNCH TABLE		SPAN 1											SPAN 2										
		CL BRGS. SOUTH ABUTMENT	0.1L ₁	0.2L ₁	0.3L ₁	0.4L ₁	0.5L ₁	0.6L ₁	0.7L ₁	0.8L ₁	0.9L	CL BRGS. PIER 1	0.1L	0.2L ₁	0.3L ₁	0.4L ₁	0.5L ₁	0.6L ₁	0.7L ₁	0.8L ₁	0.9L ₁	CL BRGS. NORTH ABUTMENT	
GIRDER 1	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	151.623	151.664	151.701	151.734	151.761	151.783	151.801	151.813	151.821	151.825	151.826	151.825	151.821	151.813	151.801	151.783	151.761	151.734	151.701	151.664	151.623	GIRDER 1
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	151.562	151.627	151.682	151.730	151.767	151.788	151.796	151.792	151.797	151.785	151.777	151.784	151.799	151.804	151.809	151.807	151.788	151.755	151.707	151.646	151.576	
	(C) = (A) - (B) (m)	0.061	0.037	0.019	0.004	- 0.006	- 0.005	0.005	0.021	0.024	0.040	0.049	0.041	0.027	0.009	- 0.008	- 0.024	- 0.021	- 0.021	- 0.006	0.018	0.047	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	0.061	0.059	0.060	0.057	0.052	0.051	0.051	0.053	0.041	0.045	0.049	0.046	0.039	0.041	0.038	0.032	0.031	0.032	0.035	0.040	0.047	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	151.623	151.661	151.696	151.727	151.753	151.775	151.794	151.808	151.818	151.824	151.826	151.824	151.818	151.808	151.794	151.775	151.753	151.727	151.696	151.661	151.623	
GIRDER 2	(G) DECK SURFACE CAMBER (A) - (F) (m) ABOVE PROPOSED GRADE (S.D.L. DEFL.).	0.0	0.003	0.005	0.007	0.008	0.008	0.007	0.005	0.003	0.001	0.0	0.001	0.003	0.005	0.007	0.008	0.008	0.007	0.005	0.003	0.0	GIRDER 2
	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	151.668	151.709	151.746	151.779	151.806	151.828	151.846	151.858	151.866	151.870	151.871	151.870	151.866	151.858	151.846	151.828	151.806	151.779	151.746	151.709	151.668	
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	151.600	151.672	151.734	151.785	151.822	151.845	151.849	151.842	151.846	151.829	151.825	151.834	151.847	151.852	151.857	151.852	151.835	151.802	151.755	151.692	151.619	
	(C) = (A) - (B) (m)	0.068	0.037	0.012	- 0.006	- 0.016	- 0.017	- 0.003	0.016	0.020	0.041	0.046	0.036	0.019	0.006	- 0.011	- 0.024	- 0.029	- 0.023	- 0.009	0.017	0.049	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	0.068	0.059	0.053	0.047	0.042	0.039	0.043	0.048	0.037	0.046	0.046	0.041	0.036	0.038	0.035	0.032	0.029	0.030	0.032	0.039	0.049	
GIRDER 3	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	151.668	151.706	151.741	151.772	151.798	151.820	151.839	151.853	151.863	151.869	151.871	151.869	151.863	151.853	151.839	151.820	151.798	151.772	151.741	151.706	151.668	GIRDER 3
	(G) DECK SURFACE CAMBER (A) - (F) (m) ABOVE PROPOSED GRADE (S.D.L. DEFL.).	0.0	0.003	0.005	0.007	0.008	0.008	0.007	0.005	0.003	0.001	0.0	0.001	0.003	0.005	0.007	0.008	0.008	0.007	0.005	0.003	0.0	
	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	151.713	151.754	151.791	151.824	151.851	151.873	151.891	151.903	151.911	151.915	151.916	151.915	151.911	151.903	151.891	151.873	151.851	151.824	151.791	151.754	151.713	
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	151.647	151.717	151.780	151.828	151.865	151.885	151.889	151.879	151.882	151.862	151.866	151.876	151.889	151.894	151.898	151.891	151.874	151.842	151.793	151.734	151.664	
	(C) = (A) - (B) (m)	0.066	0.037	0.011	- 0.004	- 0.014	- 0.012	0.002	0.024	0.029	0.053	0.050	0.039	0.022	0.009	- 0.007	- 0.018	- 0.023	- 0.018	- 0.002	0.020	0.049	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
GIRDER 4	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	0.066	0.059	0.052	0.049	0.044	0.044	0.048	0.056	0.046	0.058	0.050	0.044	0.039	0.041	0.039	0.038	0.035	0.035	0.039	0.042	0.049	GIRDER 4
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	151.713	151.751	151.786	151.817	151.843	151.865	151.884	151.898	151.908	151.914	151.916	151.914	151.908	151.898	151.884	151.865	151.843	151.817	151.786	151.751	151.713	
	(G) DECK SURFACE CAMBER (A) - (F) (m) ABOVE PROPOSED GRADE (S.D.L. DEFL.).	0.0	0.003	0.005	0.007	0.008	0.008	0.007	0.005	0.003	0.001	0.0	0.001	0.003	0.005	0.007	0.008	0.008	0.007	0.005	0.003	0.0	
	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	151.668	151.709	151.746	151.779	151.806	151.828	151.846	151.858	151.866	151.870	151.871	151.870	151.866	151.858	151.846	151.828	151.806	151.779	151.746	151.709	151.668	
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	151.604	151.671	151.725	151.768	151.800	151.819	151.823	151.817	151.829	151.825	151.824	151.829	151.838	151.840	151.846	151.842	151.822	151.792	151.748	151.689	151.613	
	(C) = (A) - (B) (m)	0.064	0.038	0.021	0.011	0.006	0.009	0.023	0.041	0.037	0.045	0.047	0.041	0.028	0.018	0.000	- 0.014	- 0.016	- 0.013	- 0.002	0.020	0.055	
GIRDER 5	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	GIRDER 5
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	0.064	0.060	0.062	0.064	0.064	0.065	0.069	0.073	0.054	0.050	0.047	0.046	0.045	0.050	0.046	0.042	0.042	0.040	0.039	0.042	0.055	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	151.668	151.706	151.741	151.772	151.798	151.820	151.839	151.853	151.863	151.869	151.871	151.869	151.863	151.853	151.839	151.820	151.798	151.772	151.741	151.706	151.668	
	(G) DECK SURFACE CAMBER (A) - (F) (m) ABOVE PROPOSED GRADE (S.D.L. DEFL.).	0.0	0.003	0.005	0.007	0.008	0.008	0.007	0.005	0.003	0.001	0.0	0.001	0.003	0.005	0.007	0.008	0.008	0.007	0.005	0.003	0.0	
	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	151.623	151.664	151.701	151.734	151.761	151.783	151.801	151.813	151.821	151.825	151.826	151.825	151.821	151.813	151.801	151.783	151.761	151.734	151.701	151.664	151.623	
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	151.562	151.629	151.687	151.734	151.770	151.791	151.797	151.790	151.797	151.785	151.781	151.795	151.813	151.819	151.822	151.817	151.795	151.757	151.706	151.645	151.577	
GIRDER 5	(C) = (A) - (B) (m)	0.061	0.035	0.014	0.000	- 0.009	- 0.008	0.004	0.023	0.024	0.040	0.045	0.030	0.008	- 0.006	- 0.021	0.034	- 0.034	- 0.023	- 0.005	0.019	0.046	GIRDER 5
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	0.061	0.057	0.055	0.053	0.049	0.048	0.050	0.055	0.041	0.045	0.045	0.035	0.025	0.026	0.025	0.022	0.024	0.030	0.036	0.041	0.046	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	151.623	151.661	151.696	151.727	151.753	151.775	151.794	151.808	151.818	151.824	151.826	151.824	151.818	151.808	151.794	151.775	151.753	151.727	151.696	151.661	151.623	
	(G) DECK SURFACE CAMBER (A) - (F) (m) ABOVE PROPOSED GRADE (S.D.L. DEFL.).	0.0	0.003	0.005	0.007	0.008	0.008	0.007	0.005	0.003	0.001	0.0	0.001	0.003	0.005	0.007	0.008	0.008	0.007	0.005	0.003	0.0	
	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	151.623	151.664	151.701	151.734	151.761	151.783	151.801	151.813	151.821	151.825	151.826	151.825	151.821	151.813	151.801	151.783	151.761	151.734	151.701	151.664	151.623	

NOTE: ALL DIMENSIONS AND ELEVATIONS ARE IN METERS.



GIRDER HAUNCH DETAIL

N.T.S.

LEGEND

- INITIAL POSITION (BEAM D.L. ONLY)
- INTERMEDIATE POSITION (BEAM + DECK D.L.)
- FINAL POSITION (TOTAL D.L. + S.D.L.)

NOTES:

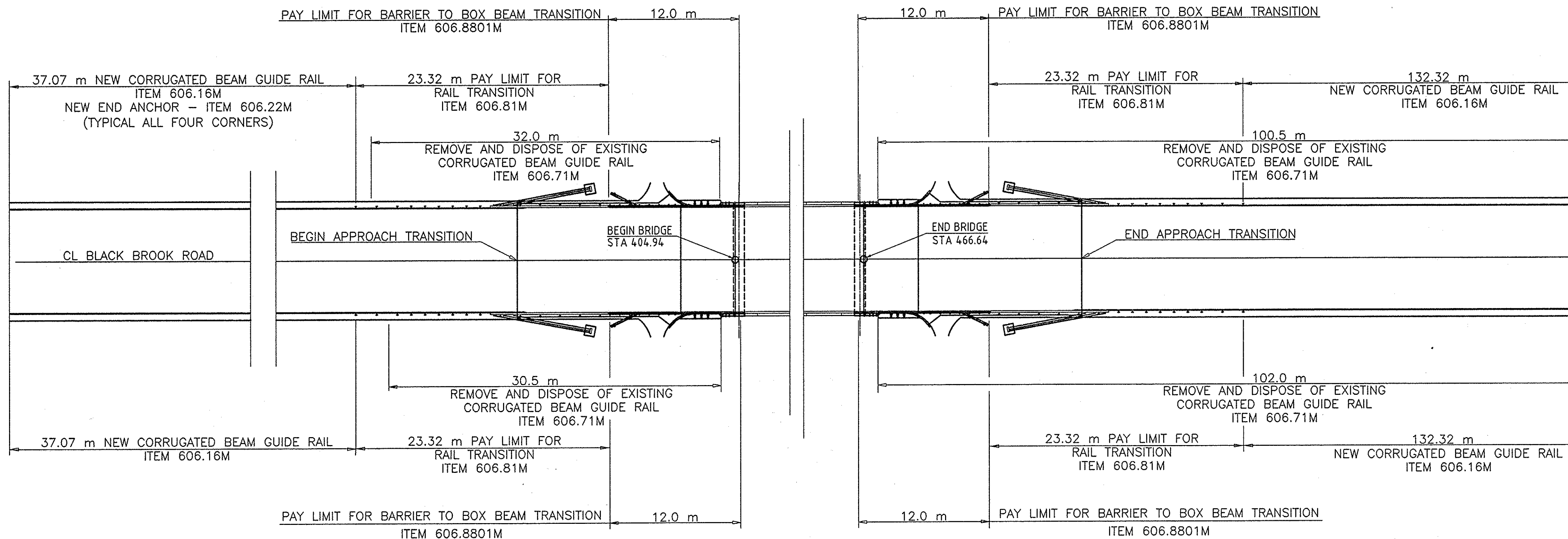
- (A) & (F) TAKEN AT CL OF GIRDER.
- (E) - GIRDER HAUNCH, IS TAKEN AT CL OF GIRDER.

HAUNCH TABLE COMPLETED

DATE	DESCRIPTION	BY	SYM.

REVISIONS

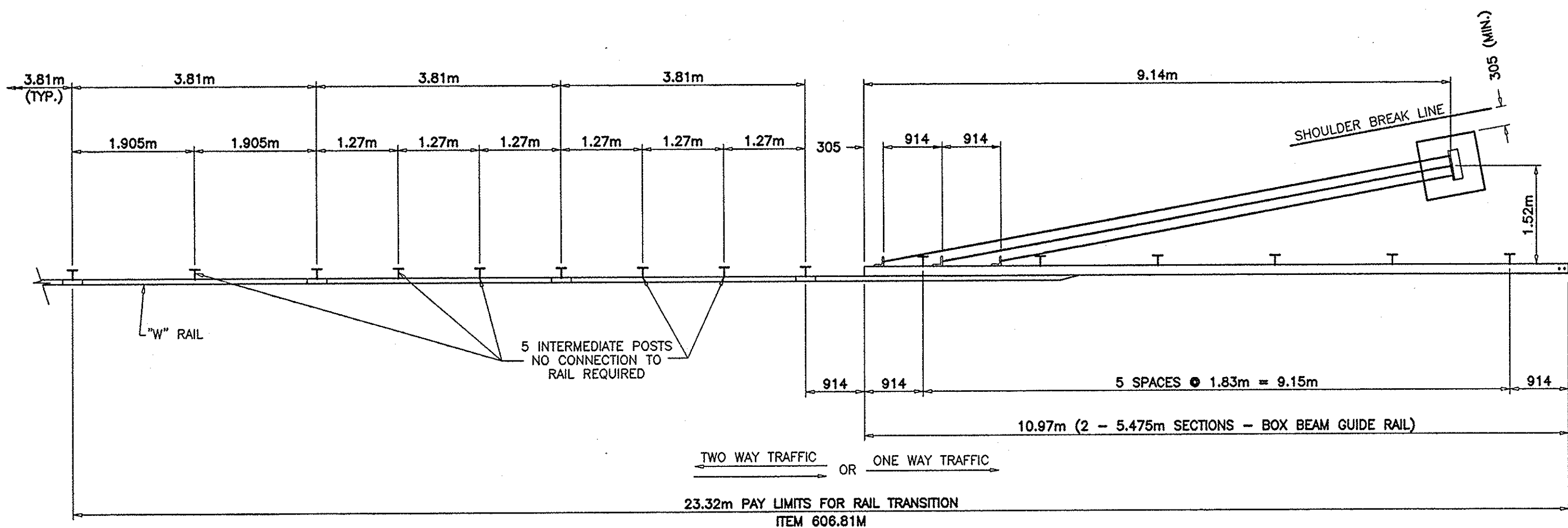
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS	
LOCATION OF PROJECT MP 319.19 BLACK BROOK ROAD	
TITLE OF DRAWING GIRDER HAUNCH TABLE	
	CONTRACT NUMBER: TAS 98-8B
	DATE: 3/98
	DRAWING NUMBER: B12



**EXISTING GUIDE RAIL REMOVAL
AND NEW GUIDE RAIL INSTALLATION**
SCALE: 1 : 250

NOTES

1. SEE DRAWINGS C21-C23 FOR BOX BEAM TO BARRIER TRANSITION DETAILS.
2. WINGWALLS NOT SHOWN.



**GUIDE RAIL TRANSITION
CORRUGATED BEAM TO BOX BEAM (ONE OR TWO WAY OPERATION)**
N.T.S.

- NOTES:**
1. SUBSTITUTE THIS DETAIL FOR THE ONE SHOWN ON STANDARD SHEET 606-15R1 FOR ITEM 606.81M.
 2. ON STANDARD SHEET 606-15R1 REVISE THE NOTE IN UPPER RIGHT THIRD OF THIS SHEET TO READ "TYPICAL CABLE ANCHOR, SEE DETAIL "F" ON THE CURRENT STANDARD SHEET TITLED "CABLE GUIDE RAILING". SPRING COMPENSATORS ARE NOT REQUIRED IN THIS TRANSITION. "ALSO ADD THE FOLLOWING DIMENSION TO ANGLE IN DETAIL "C": L178x102x9.5

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.
12/1/00	REVISED		

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
**MP 319.19
BLACK BROOK ROAD**

TITLE OF DRAWING
**EXISTING AND PROPOSED
GUIDE RAIL LAYOUT**



CONTRACT NUMBER:

TAS 98-8B

DATE:

3/98

DRAWING NUMBER:

B13

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

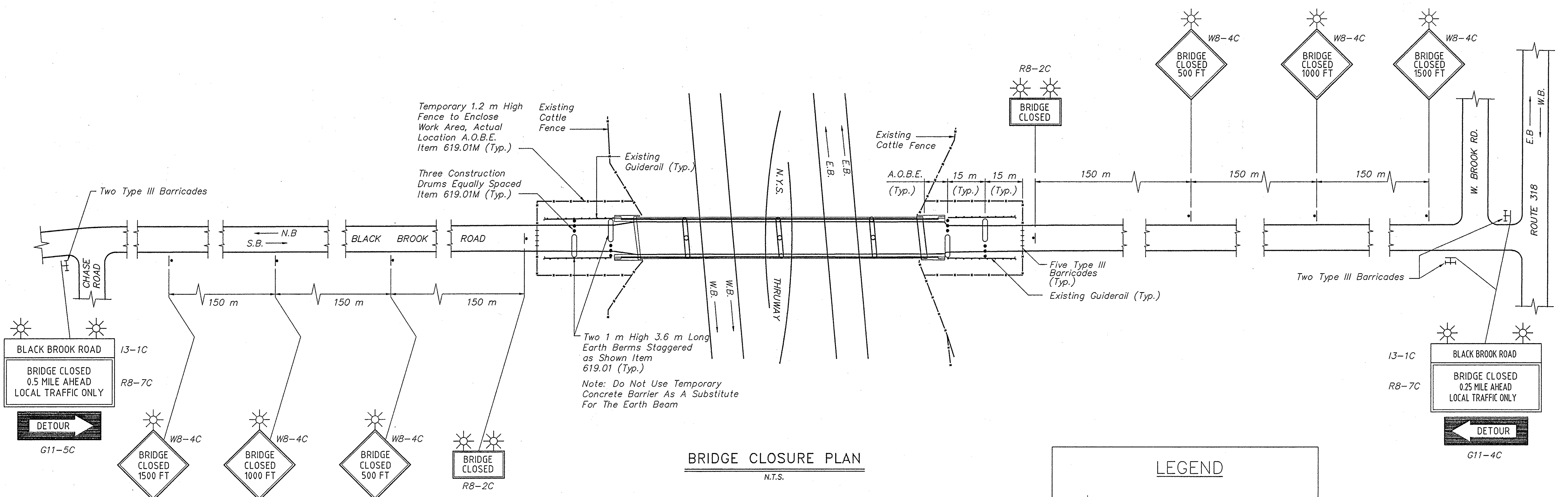
CHECKED BY: [Signature]

DRAFTED BY:

DESIGNED BY:

IN CHARGE OF: [Signature]

CHECKED BY: *[Signature]*
DRAFTED BY: *[Signature]*
DESIGNED BY: *[Signature]*
IN CHARGE OF: *[Signature]*



BRIDGE CLOSURE PLAN
N.T.S.

LEGEND

- Type A Lights Included in Price for Item 619.02M
- Type B Flashers Included in Price for Item 619.02M
- Plastic Drums (Item 619.01M)
- Type III Barricade with Type B Flashers (Item 619.0413M and 619.0502M)
- Signs (Item 619.02M)
- 3 Foot High Earth Berm Paid Under Item 619.01M
- Main Route of Traffic

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
M.P. 319.19
BLACK BROOK ROAD

TITLE OF DRAWING
BRIDGE CLOSURE PLAN



CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
B14

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.



SCALE: 1 : 250

NOTICE:
EXISTING BORING LOCATIONS AND
LOGS ARE LOCATED IN THE FOUNDATION
REPORT AVAILABLE AT THE ALBANY
HEADQUARTERS STRUCTURES DESIGN
BUREAU.



SCALE: 1 : 250

1/24/00	2nd		

REVISIONS

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

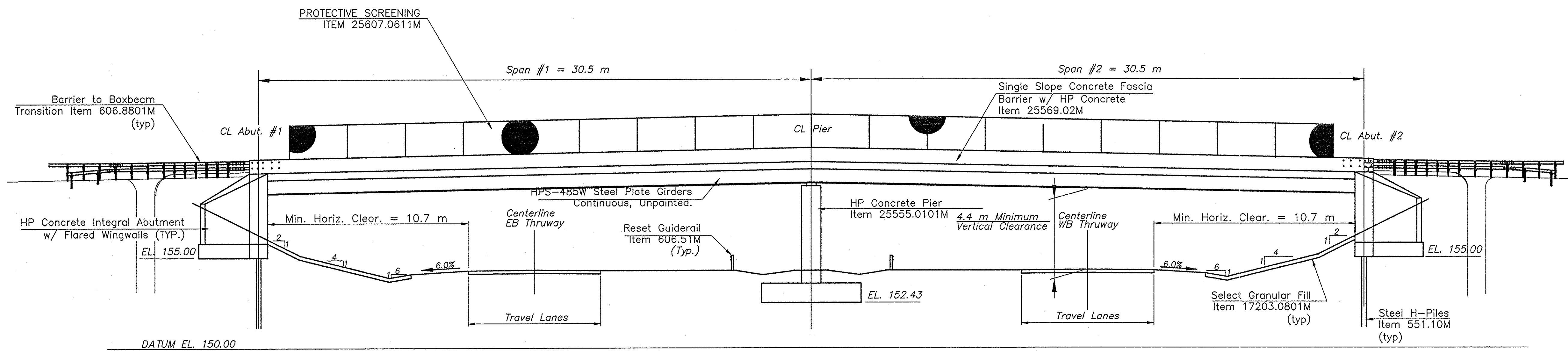
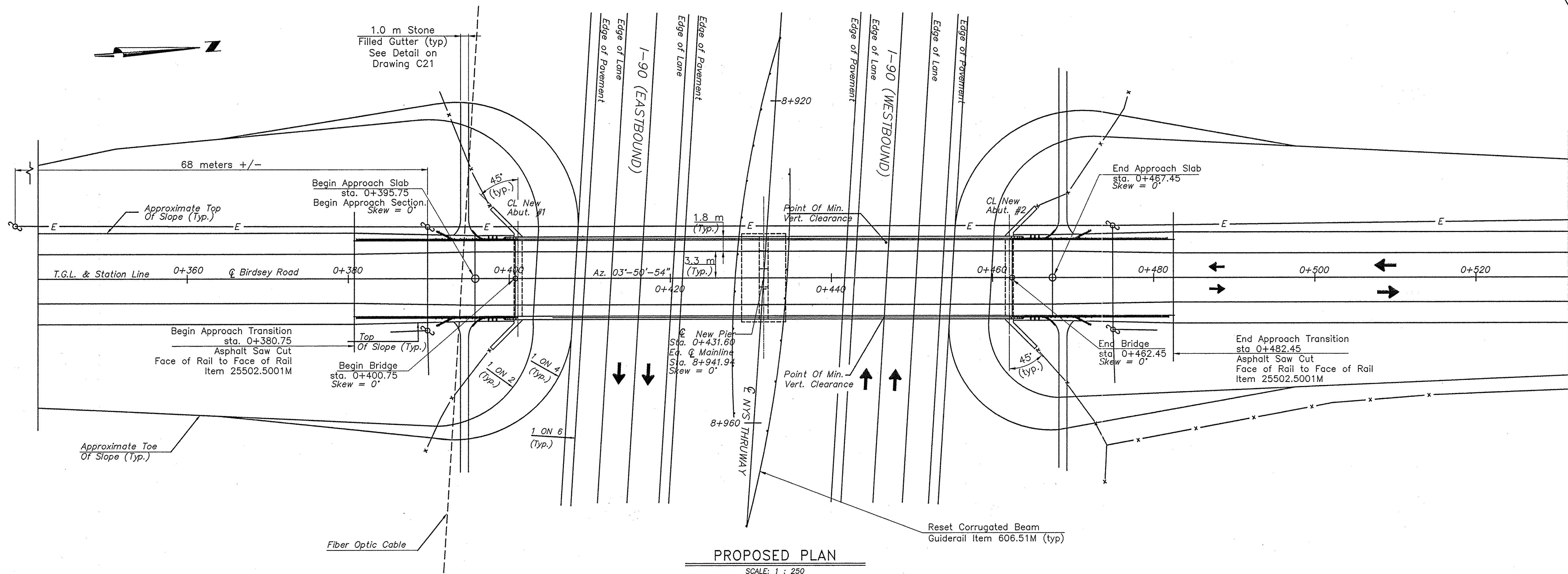
BIRDSET ROAD	
TITLE OF DRAWING	

DRAWING NUMBER:

D 1

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE
SHOWN IN METERS.

CHECKED BY: *[Signature]*
 DRAFTED BY: *[Signature]*
 DESIGNED BY: *[Signature]*
 IN CHARGE OF: *[Signature]*



NOAS-BUILT REVISIONS

12/10	KUP		

DATE	DESCRIPTION	BY	SYM.
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NEW YORK STATE THRUWAY AUTHORITY
 DEPARTMENT OF MAINTENANCE AND ENGINEERING
 200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
 MP 321.08
 BIRDSEY ROAD

TITLE OF DRAWING
PROPOSED PLAN AND ELEVATION

CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
D2

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
202.1203M	REMOVE EXISTING SUPERSTRUCTURE	LS	NEC	100.00
900.9808	A-SILT FENCE	M	—	34.80
202.19M	REMOVAL OF SUBSTRUCTURES	CM	81.0	141.41
901.9808	A-INSTALL PIER BEARING TIE-DOWN BRACKETS	EA	—	10.00
203.02M	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	172.0	177.82
902.9808	A-GEOTEXTILE BEDDING	SM	—	106.88
17203.0801M	SLCT GRANLR FLL, SLP PROT STRS	CM	43.0	86.57
906.9808	A-RADAR DETECTOR ACTIVATOR	LS	—	20.00
203.21M	SELECT STRUCTURE FILL	CM	796.0	580.34
206.01M	STRUCTURE EXCAVATION	CM	877.0	704.76
209.01M	TEMP. SOIL EROSION AND WATER POLLUTION CONTROL	FLS	0.2	0.00
304.03M	SUBBASE COURSE TYPE 2	CM	111.0	67.17
403.11M	ASPHALT CONCRETE TYPE 1 BASE COURSE	MT	11.0	50.83
403.13M	ASPHALT CONCRETE-TYPE 3 BINDER COURSE	MT	14.0	48.82
403.17M	ASPH CONC - TYPE 6F TOP COURSE (HIGH FRICTION)MARSHALL DESIGN	MT	37.0	55.10
908.9808	A- PROT. SCREENING FOR BRIDGES, ALTERNATE POST MOUNTING	EA	—	38.00
407.01M	TACK COAT	L	64.0	45.07
909.9808	A-ADDITIONAL SIGN SERIES	LS	—	20.00
490.30M	MISC. COLD MILL OF BIT CONC.	SM	200.0	180.00
910.9808	FA- RESET R.O.W. FENCING AT BLACK BROOK BIRDSEY & NINE FOOT ROADS	LS	—	34.00
25502.5001M	SAWCUTTING OF ASPHALT CONCRETE	M	54.0	142.93
911.9808	A-PLANTING VIBURNUM TOMENTOSUM	EA	—	16.00
551.09M	FURNISHING EQUIPMENT FOR DRIVING PILES	LS	NEC	20.00
551.1001M	STEEL BEARING PILES (HP 250 X 62)	M	210.0	177.56
551.14M	DYNAMIC PILE TESTING	EA	2.0	2.00
552.05M	SAFE OPERATE SHEET PILING	SM	196.0	0.00
25555.0101M	CONCRETE FOR STRUCTURES-CLASS HP	CM	280.0	279.14
25555.0466M	HI PERF. CONC. FOR STRUC CL HP (ST SLAB W/ INT WEAR SUR BFR)	SM	643.0	643.00
25555.0468M	HP CONC FOR STRUCT, CLASS HP (STR APP SLAB W/INT WEAR SURF)	SM	100.0	100.00
556.03M	STUD SHEAR CONNEC. FOR BRIDGES	EA	2490	2637.00
25556.99M	GALV. BAR REINFORCMENT FOR STR	KG	48 057	49699.96
558.01M	TRANSVR SAWCUT GROOVE STR SLAB	SM	646.0	646.00
25559.1696M	PROT. SEAL OF STRUC. CONCRETE	SM	1324.0	1324.00
25564.519803M	TRANS. & ERECT. OF STRUCT. STEEL	LS	NEC	100.00
565.1722M	TYPE M.R. FIXED BEARINGS	EA	5	5.00

ESTIMATE OF QUANTITIES

ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
25569.02M	PERM. CONC. BARRIER CLASS HP	M	128.6	130.88
570.0903M	ENV. GROUND PROTECTION	LS	NEC	0.00
571.0101M	TREAT. & DISP. OF PAINT REM. WASTE	CM	0.2	0.00
605.1001M	UNDERDRAIN FILTER TYPE 2	CM	47.0	31.04
606.16M	CORRUGATED BEAM GUIDE RAILING	M	381.0	384.81
606.22M	ANCHORAGE UNIT FOR CORR. BM. G.R.	EA	4	4.00
606.51M	RESETTING CORR. BEAM GUIDE RAILING	M	116.0	114.30
606.71M	REM. & DISP. CORR. BM. G.R.	M	341.0	340.87
606.73M	REM. & DISP. BOX BM. GUIDE RAILING	M	113.0	112.76
606.7510M	REM. & DISP. CONC. BARR. HALF SEC.	M	49.0	48.59
606.7920M	REM. & DISP. BX. BM. END ASSEMBLY	EA	2	2.00
606.81M	G.R. TRANS. CORR. BM. TO BOX BM.	EA	4	4.00
606.8801M	BOX BM. G.R. TRANS. TO CONC. BARR.	EA	4	4.00
25607.0611M	PROTECTIVE SCREENING BRIDGES	M	115.2	115.20
609.0201M	STONE CURB - GRANITE (TYPE A)	M	21.2	17.80
611.034163M	PLANTING PINUS NIGRA	EA	8	8.00
611.046342M	PLANTING RHUS AROMATICA	EA	112	112.00
611.049662M	PLANTING VIBURNUM TOMENTOSUM	EA	16	0.00
619.01M	BASIC MAINTENANCE & PROTECTION OF TRAFFIC	LS	NEC	20.00
619.02M	CONSTRUCTION SIGNS	LS	NEC	20.00
619.0303M	FLASHING ARROW BOARDS	LS	NEC	20.00
619.0413M	TYPE III CONSTRUCT. BARRICADES	M	17.0	14.64
619.0502M	LIGHTING FOR CONST. BARRICADES	M	12.0	14.64
25619.1701M	TEMPORARY CONCRETE BARRIER	M	195.0	268.00
25619.1704M	CONCRETE BARRIER MARKERS	EA	8	8.00
25637.070102M	ENGINEER'S OFFICE - TYPE C	MOS	4.0	3.70
699.04M	MOBILIZATION	LS	NEC	20.00

FINAL QUANTITIES SHOWN
NEW ITEMS LISTED

1/24/09	Lemster	Carroll	
DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 321.08
BIRDSEY ROAD

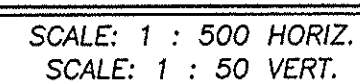
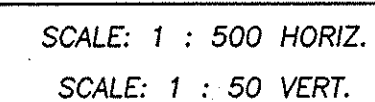
TITLE OF DRAWING
ESTIMATE OF QUANTITIES




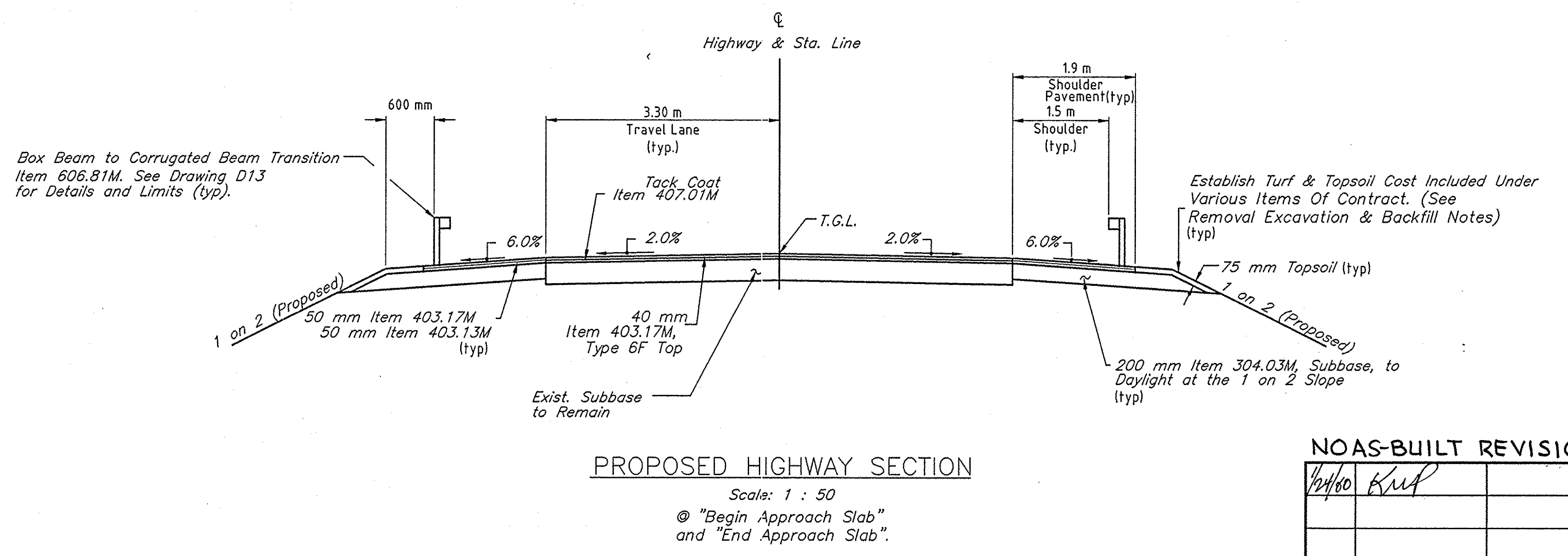
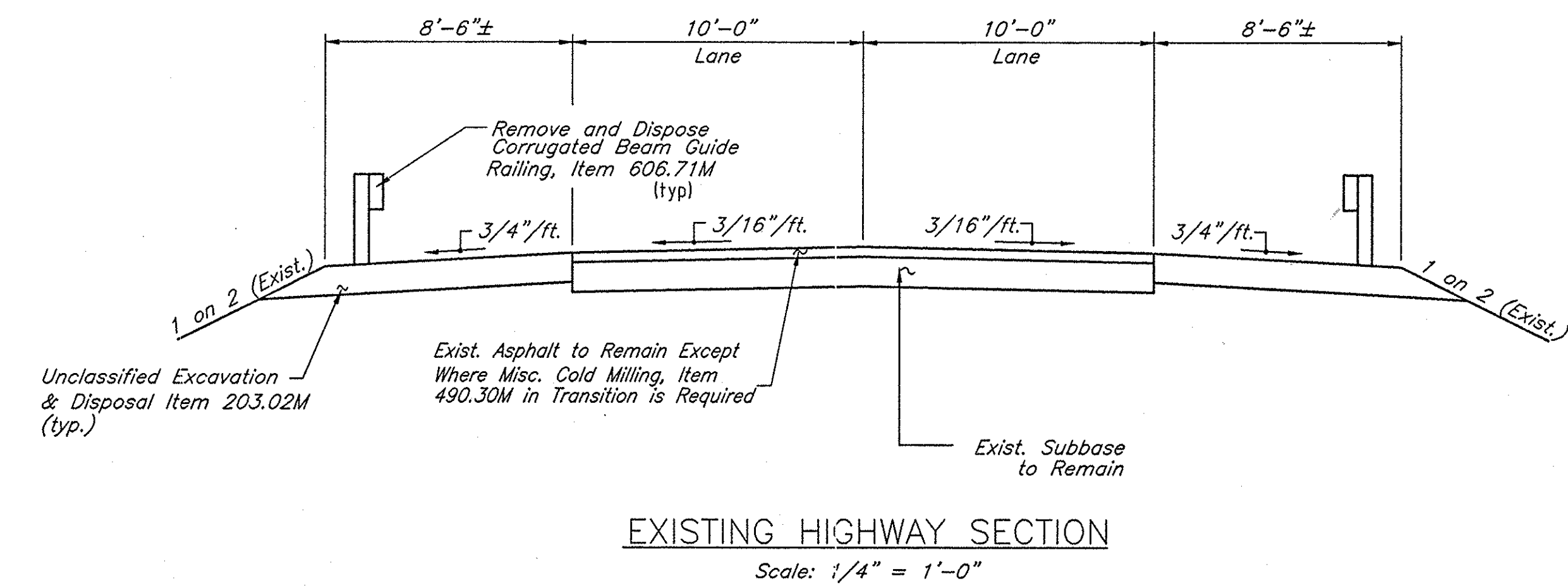
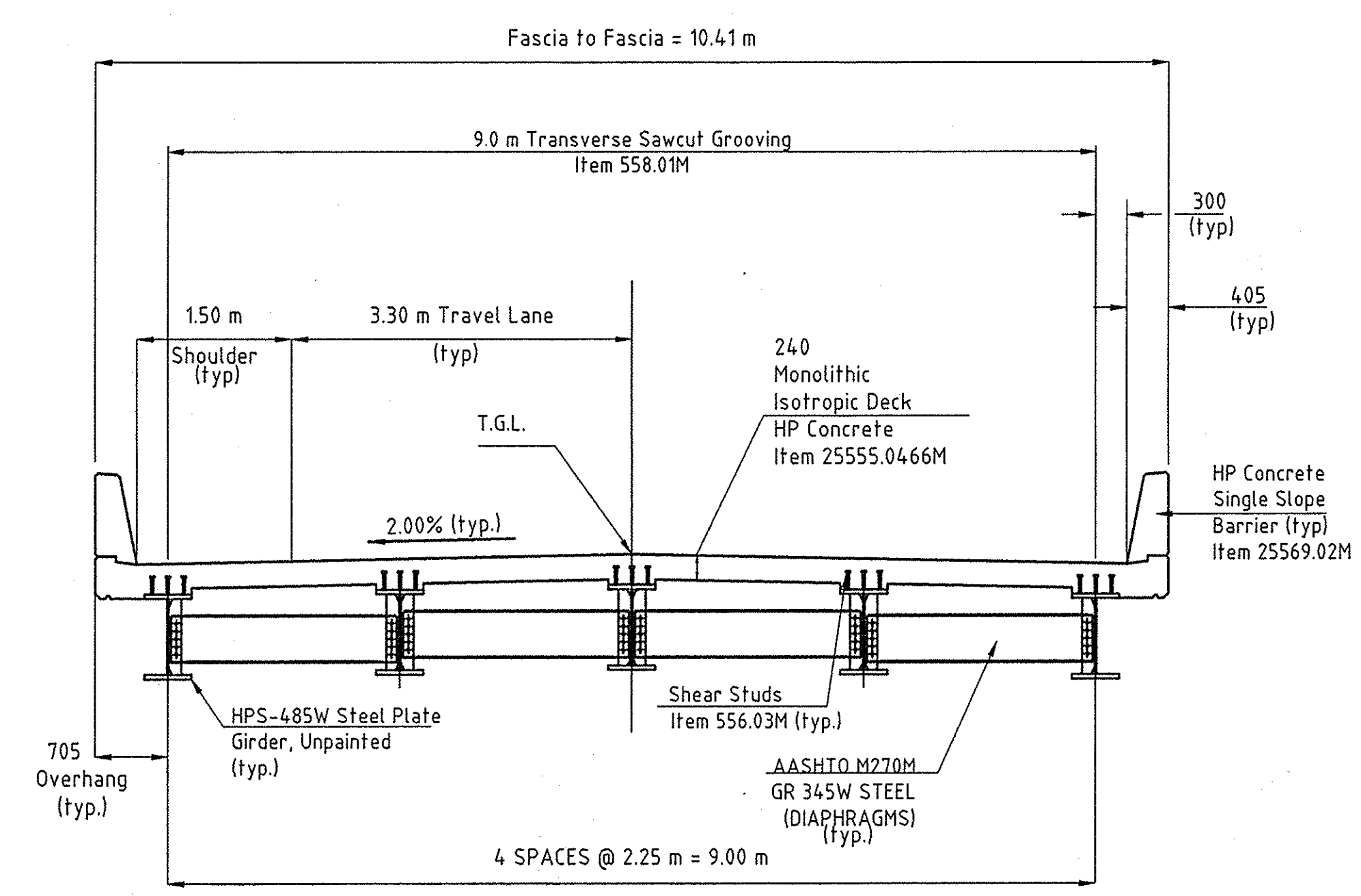
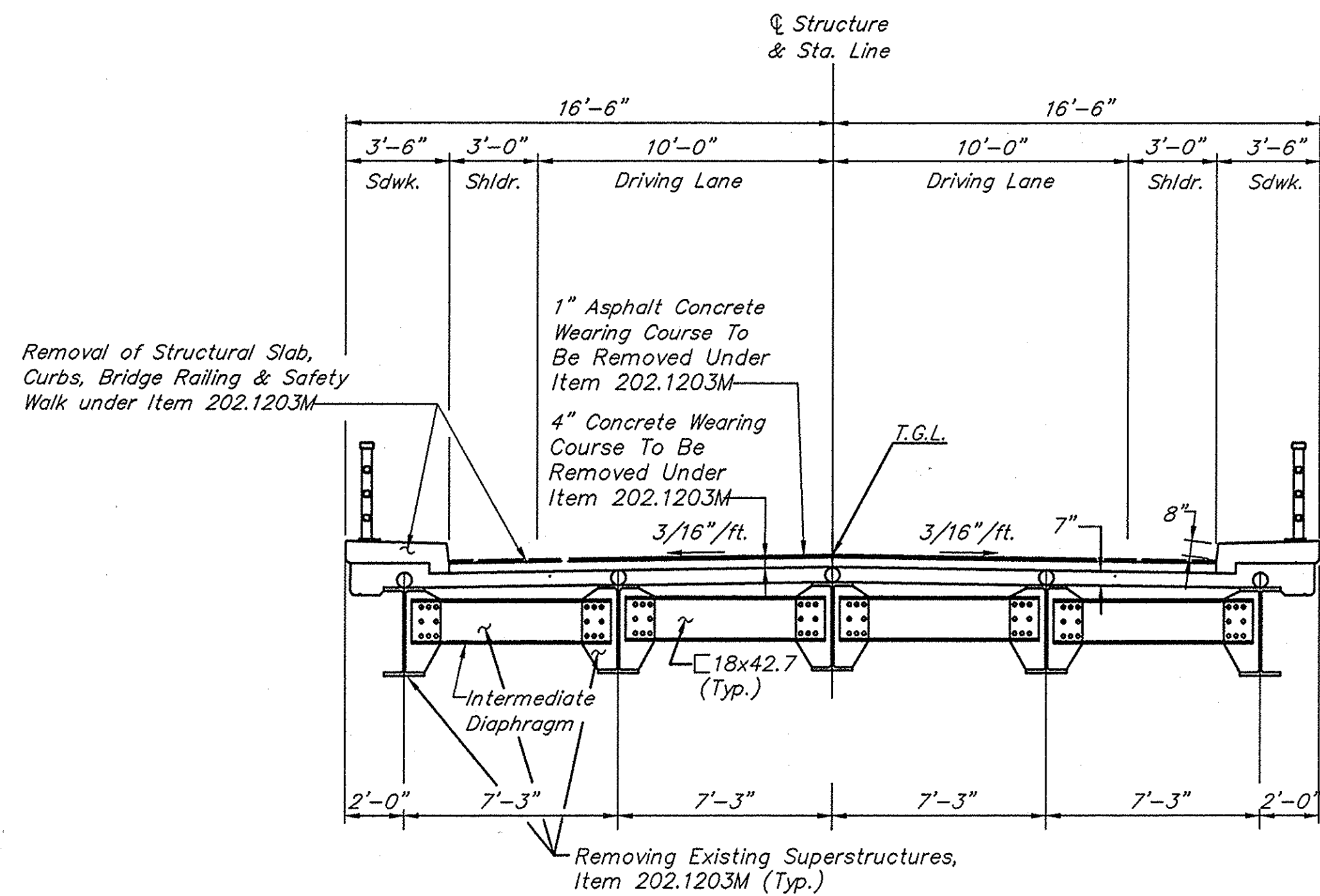
CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
D3



	<p>CONTRACT NUMBER:</p> <p>TAS 98-8B</p> <p>DATE:</p> <p>3/98</p> <p>DRAWING NUMBER:</p> <p>D4</p>
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NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 321.08
BIRDSEY ROAD

TITLE OF DRAWING
EXISTING AND PROPOSED
BRIDGE AND HIGHWAY
SECTIONS

CONTRACT NUMBER:
TAS 98-8B

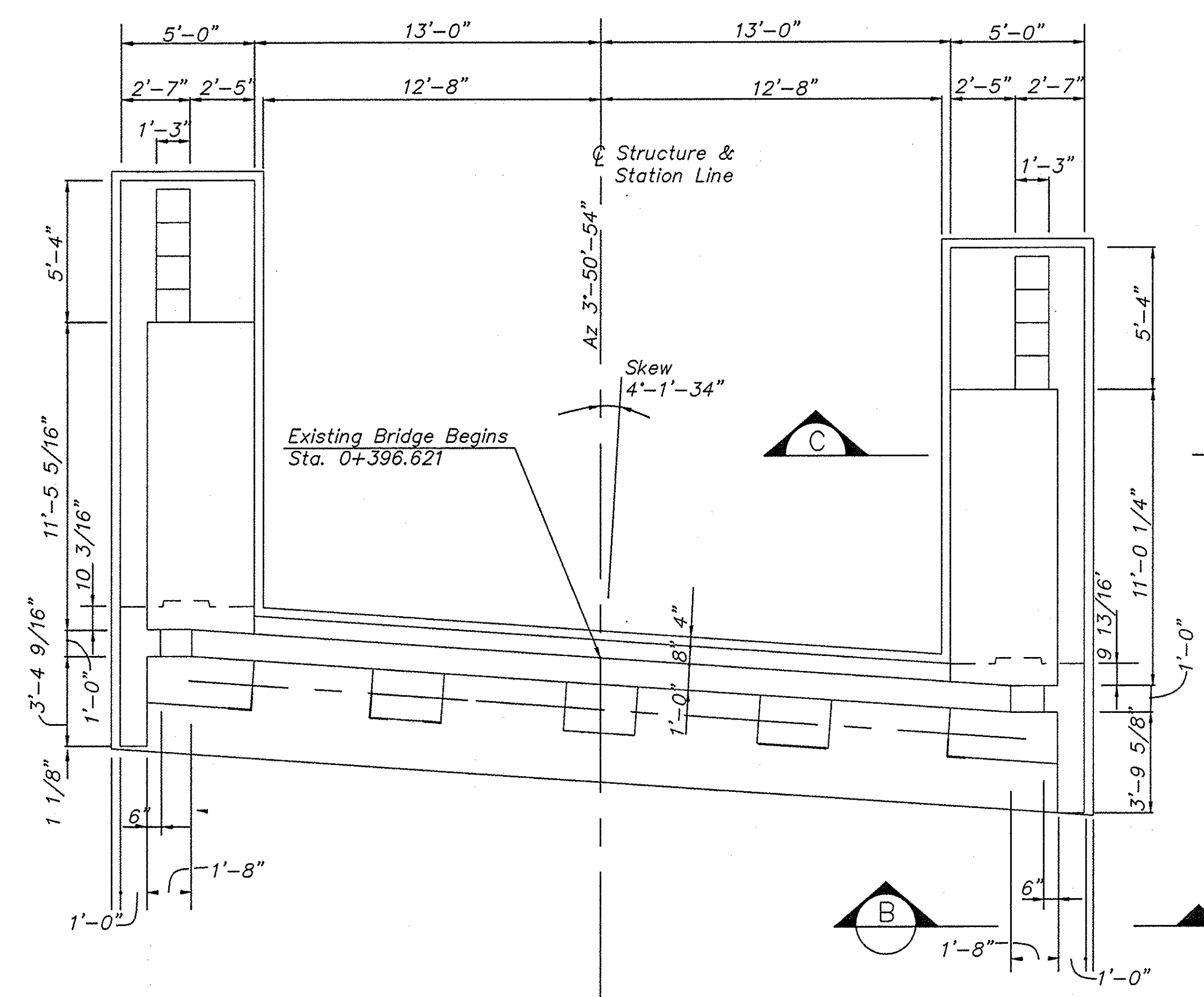
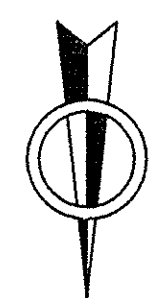
DATE:
3/98

DRAWING NUMBER:
D5

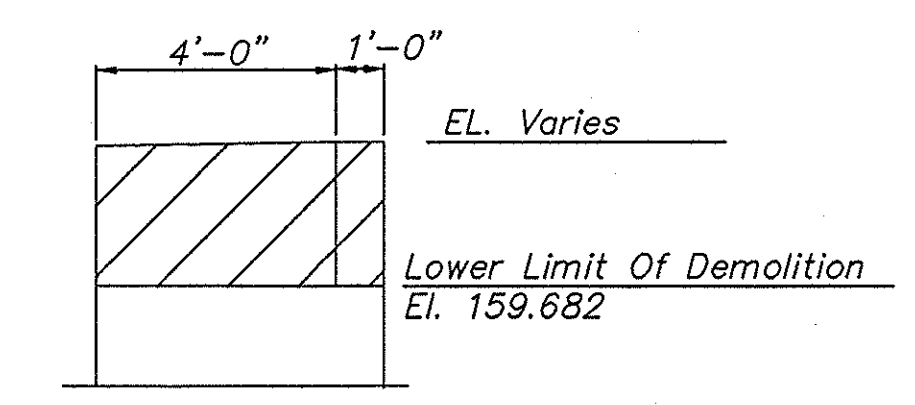
NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

DESIGNED BY:
 IN CHARGE OF:
 DRAFTED BY:
 CHECKED BY:
 FILED UNDER: MP321.08 SECTIONS

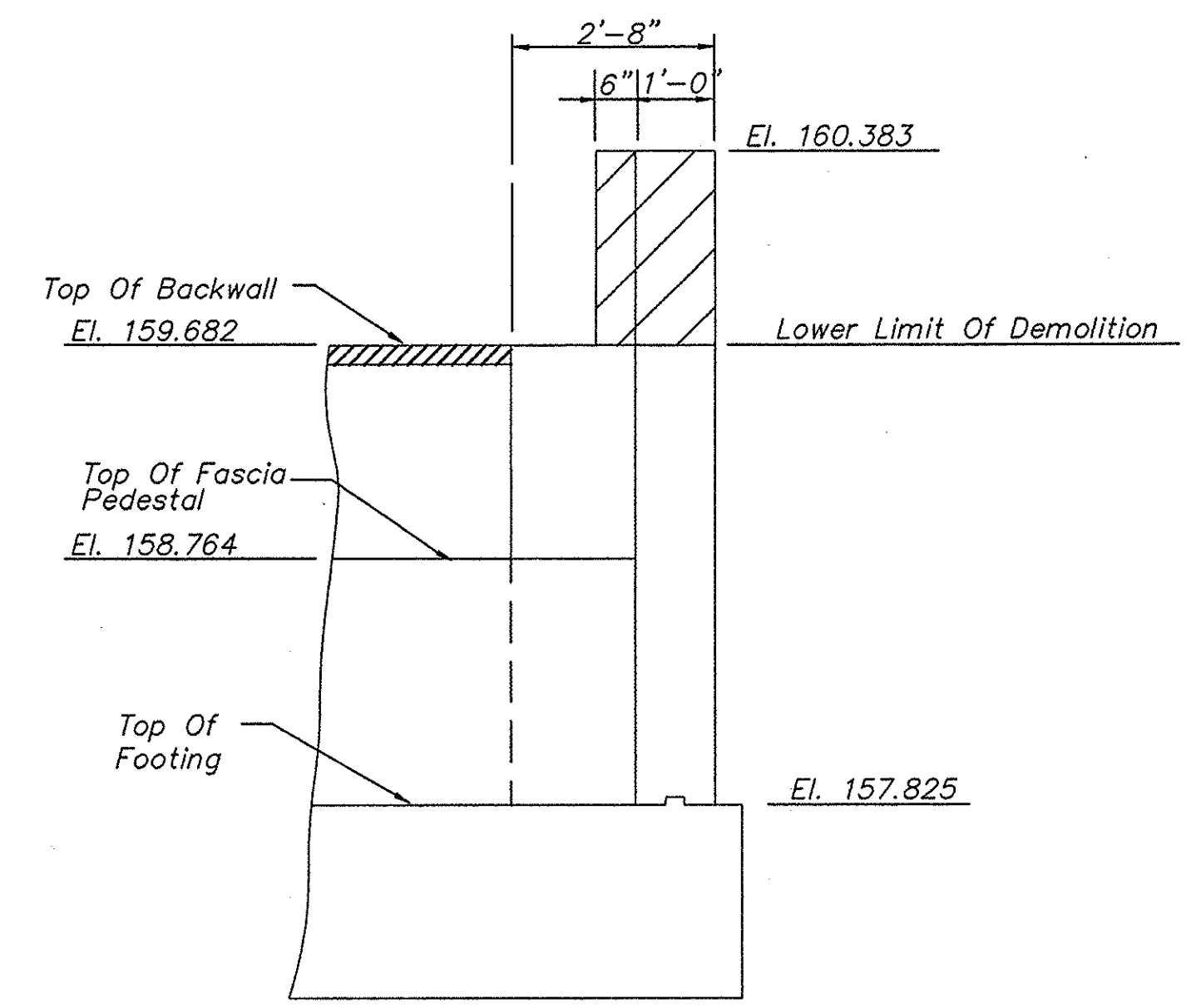
IN CHARGE OF: *[Signature]* DESIGNED BY: *[Signature]* DRAFTED BY: *[Signature]* CHECKED BY: *[Signature]* F:\BRIDGES\32108\SUB\ITEM



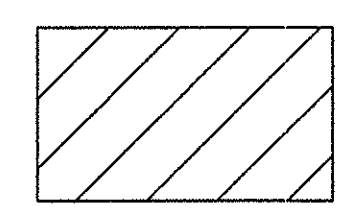
PLAN
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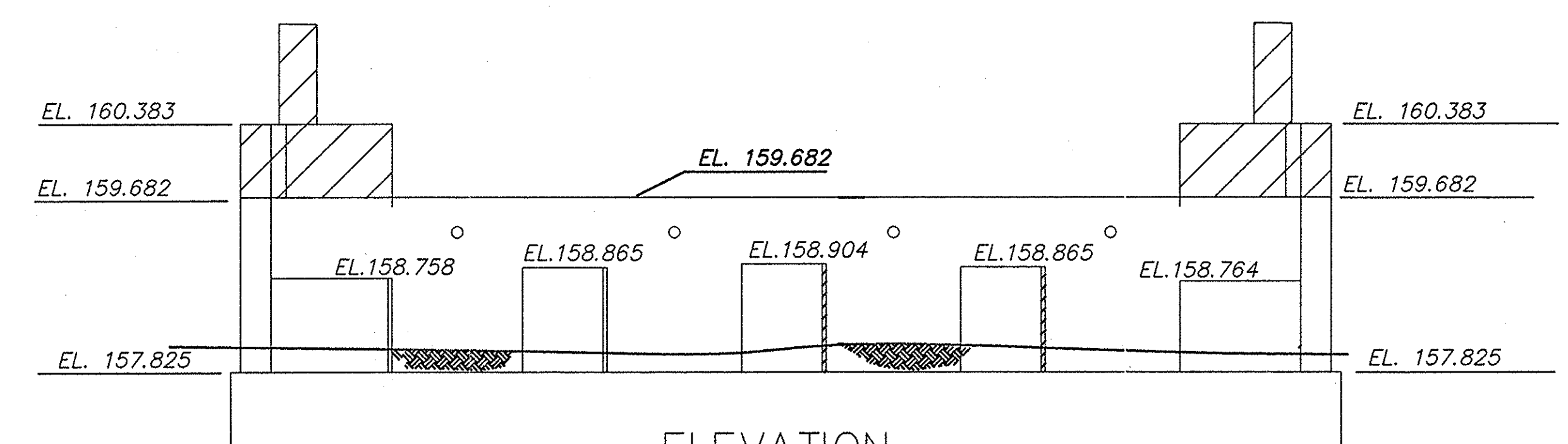
SECTION C
NTS



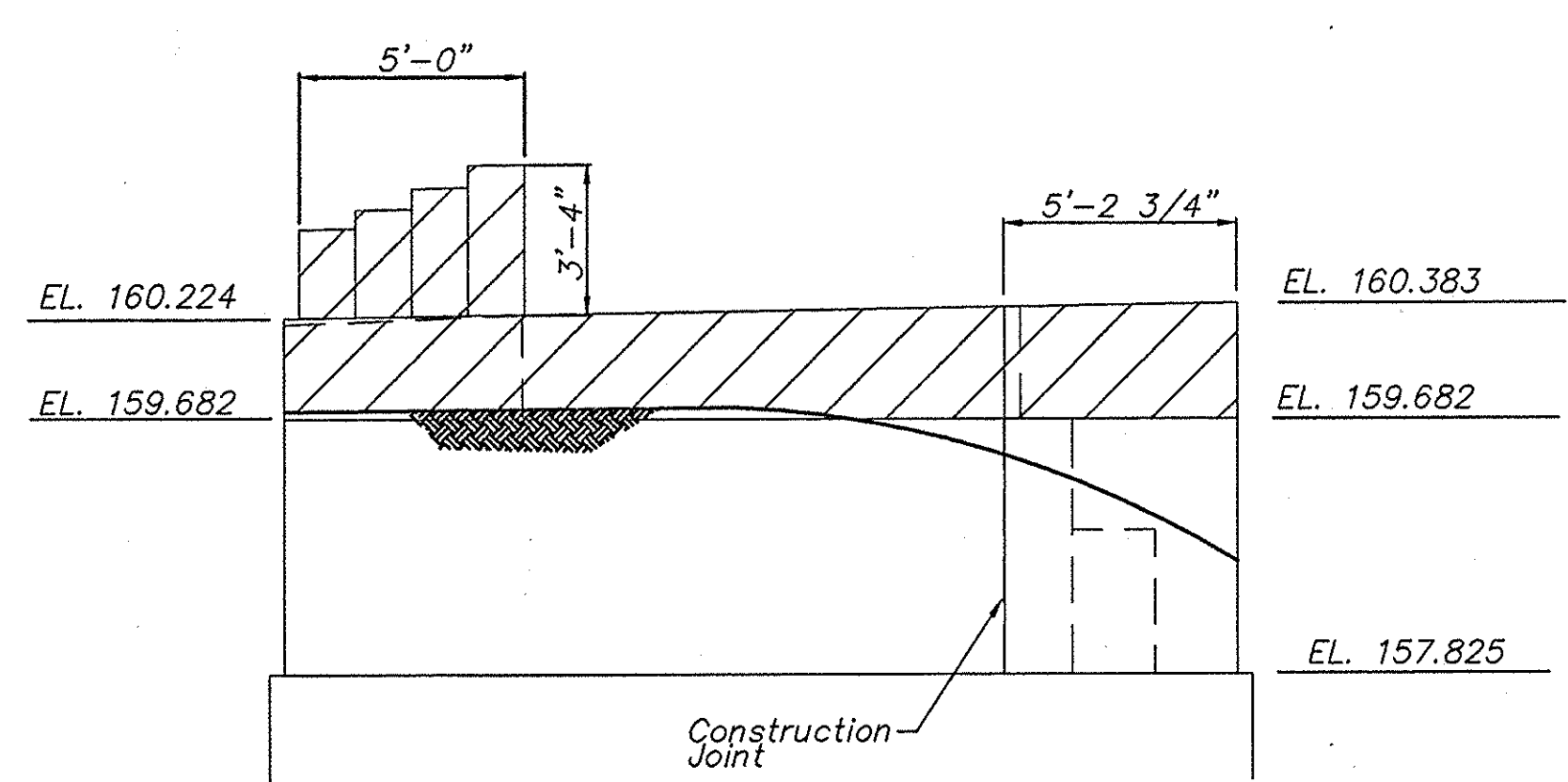
SECTION B
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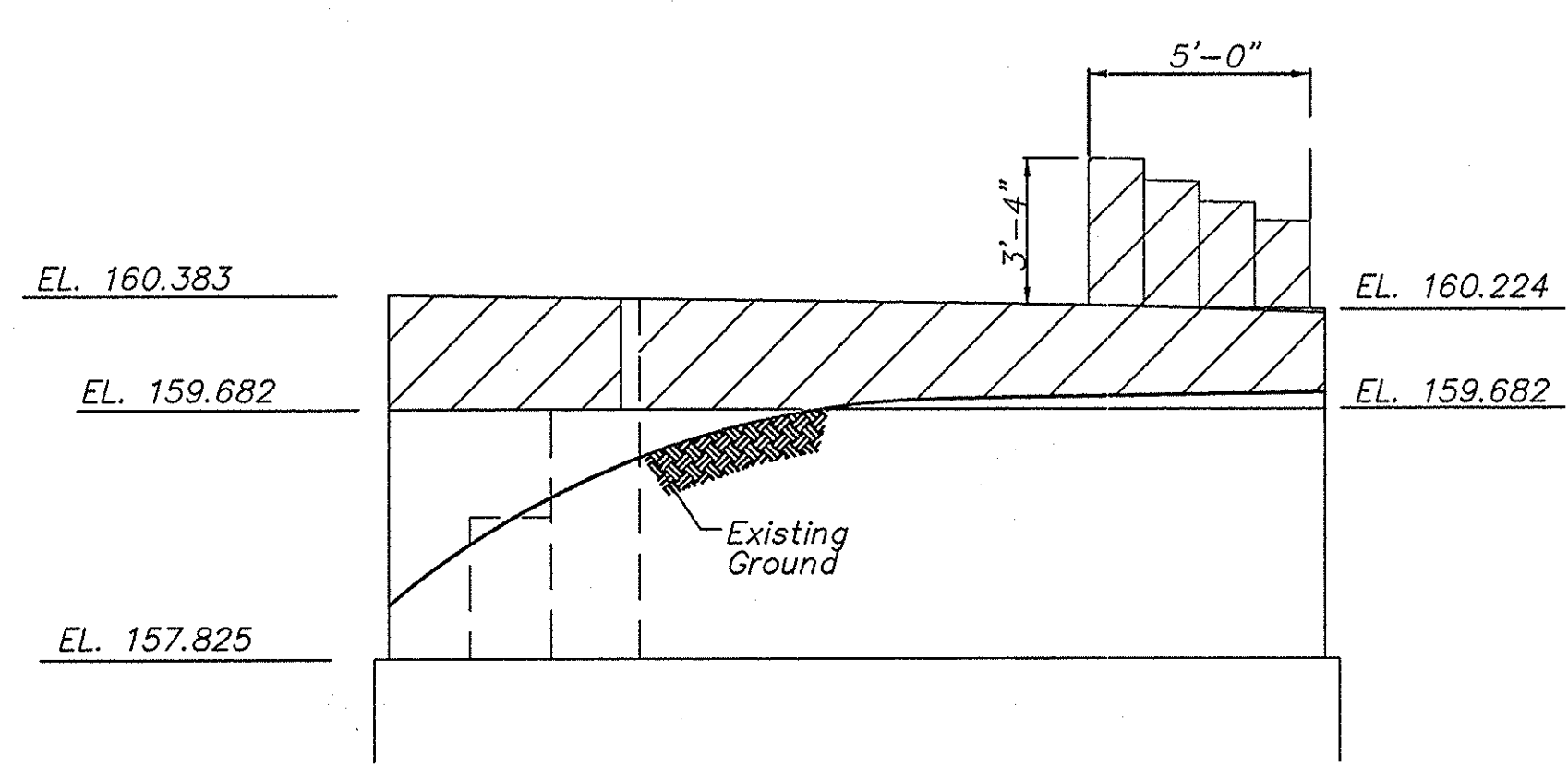
- PARTIAL REMOVAL OF ABUTMENT PAID UNDER
ITEM 202.19M - "REMOVAL OF SUBSTRUCTURES".



ELEVATION
Scale: 1/4" = 1'-0"



EAST WINGWALL ELEVATION
Scale: 1/4" = 1'-0"



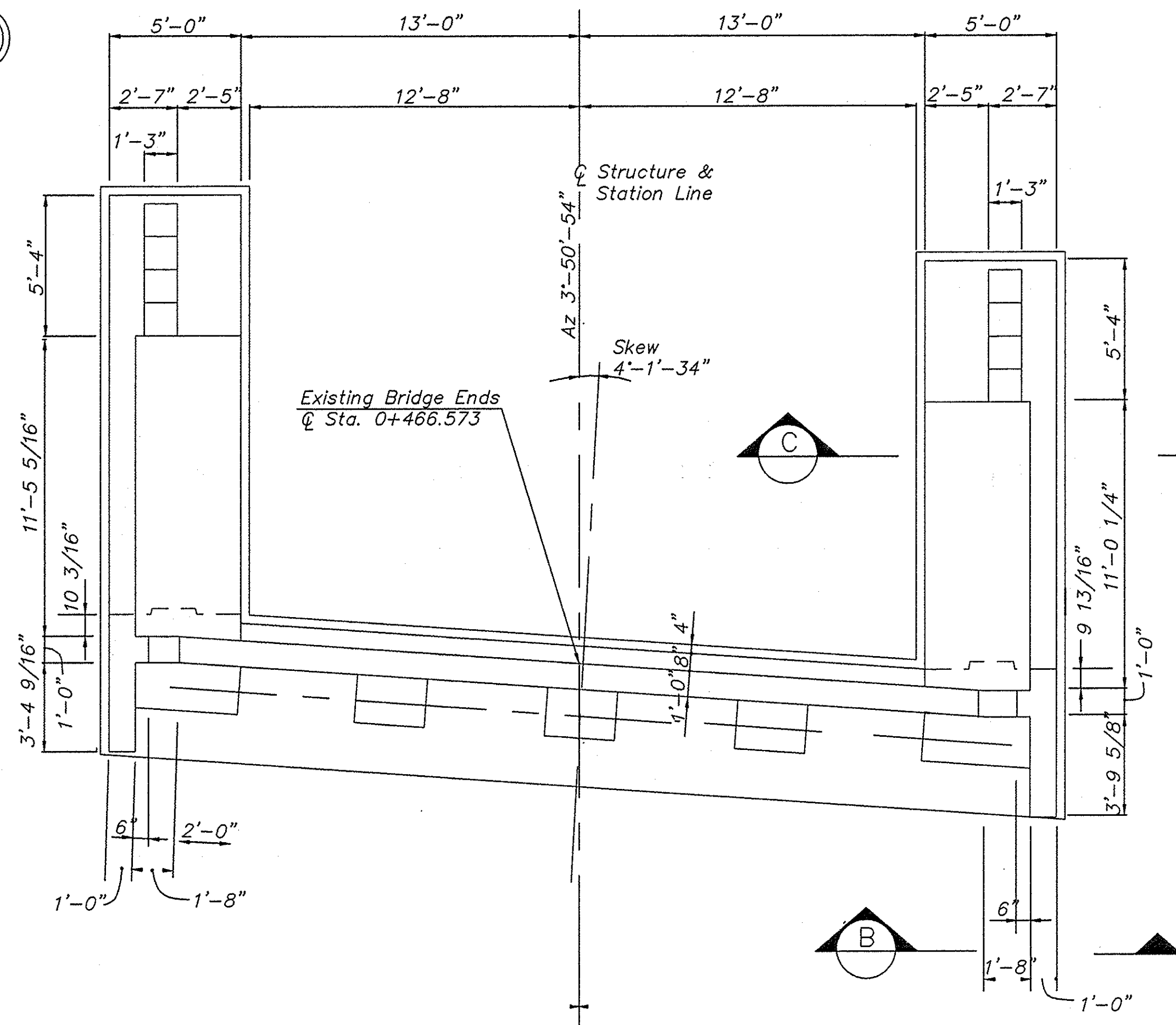
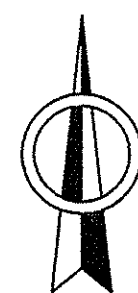
WEST WINGWALL ELEVATION
Scale: 1/4" = 1'-0"

NOTE: ALL EXISTING DIMENSIONS ARE SHOWN IN ENGLISH UNITS.
ALL ELEVATIONS ARE SHOWN IN METERS.

NOAS-BUILT REVISIONS

1/2/00	KUP		

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT MP 321.08 BIRDSEY ROAD			
TITLE OF DRAWING EXISTING SOUTH ABUTMENT REMOVAL DETAILS			
		CONTRACT NUMBER:	TAS 98-8B
		DATE:	3/98
		DRAWING NUMBER:	D6

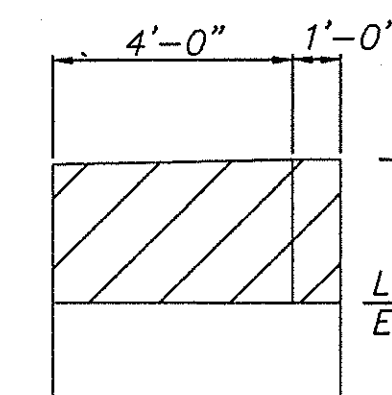


PLAN

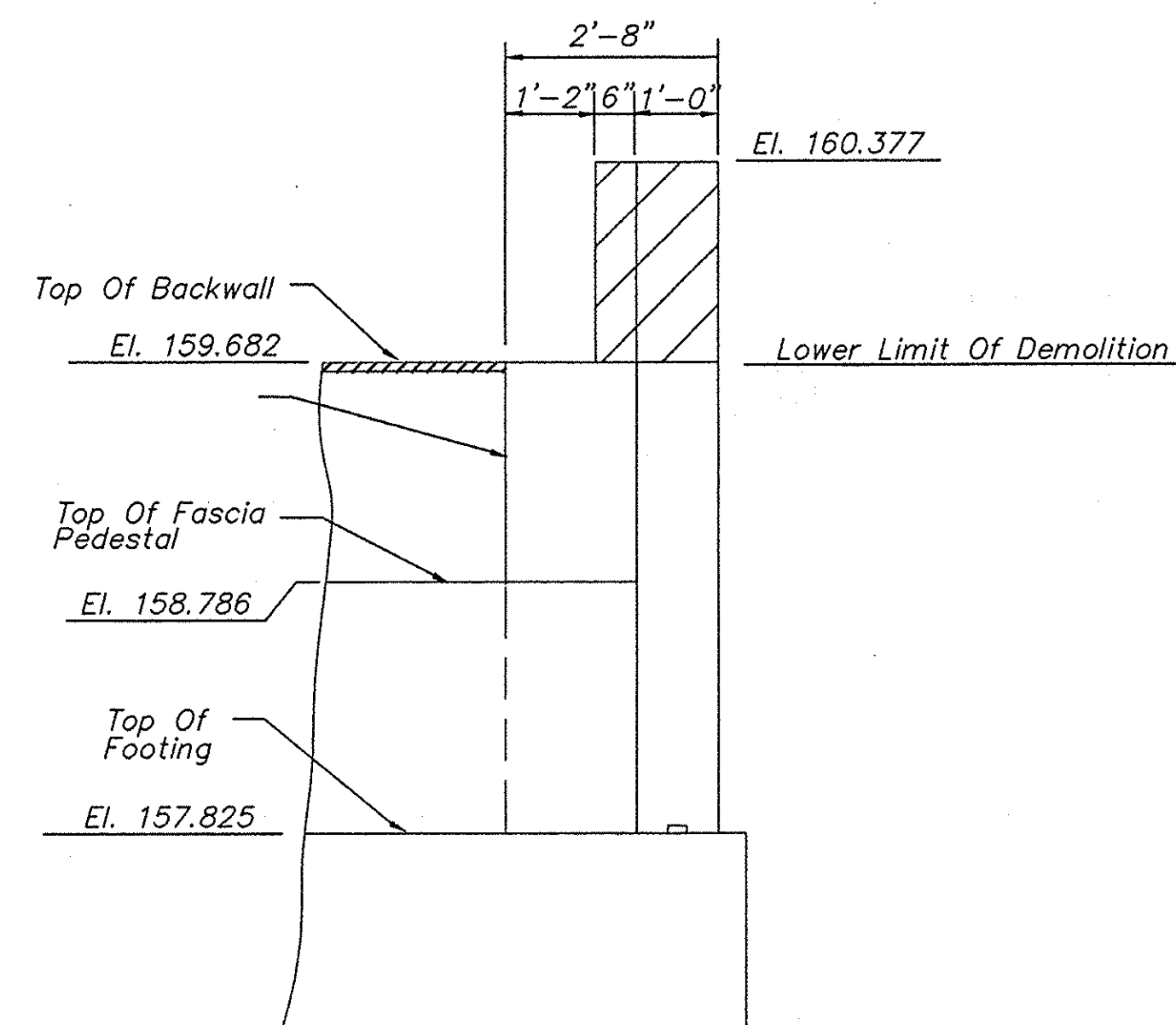
Scale: 1/4" = 1'-0"



- PARTIAL REMOVAL OF ABUTMENT PAID UNDER ITEM 202.19M - "REMOVAL OF SUBSTRUCTURES".

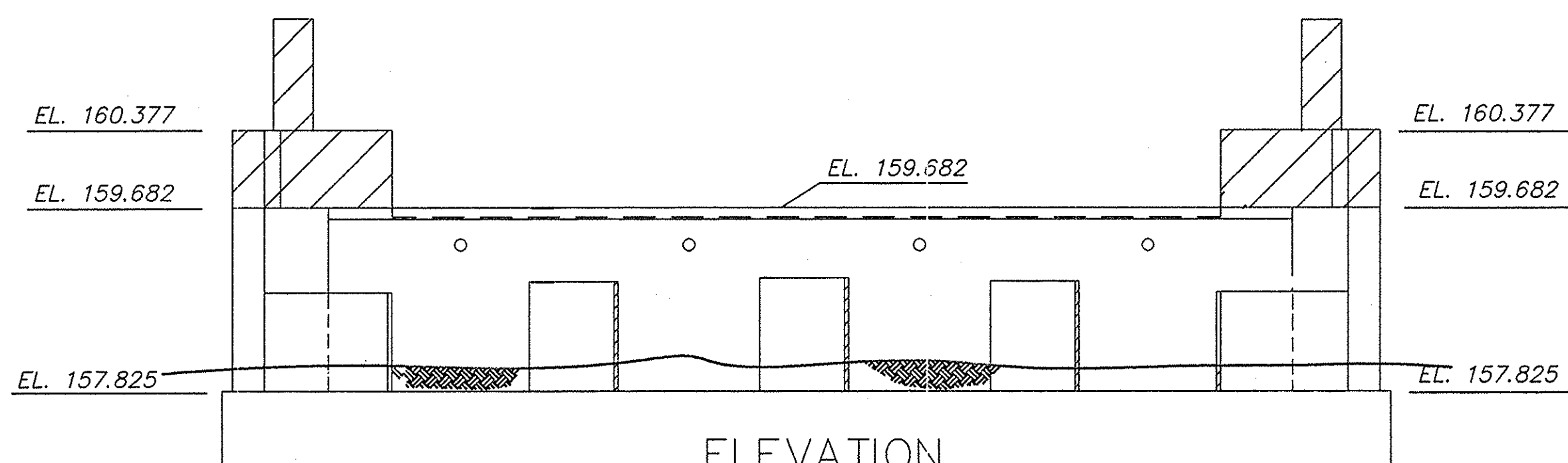


SECTION C-C
NTS



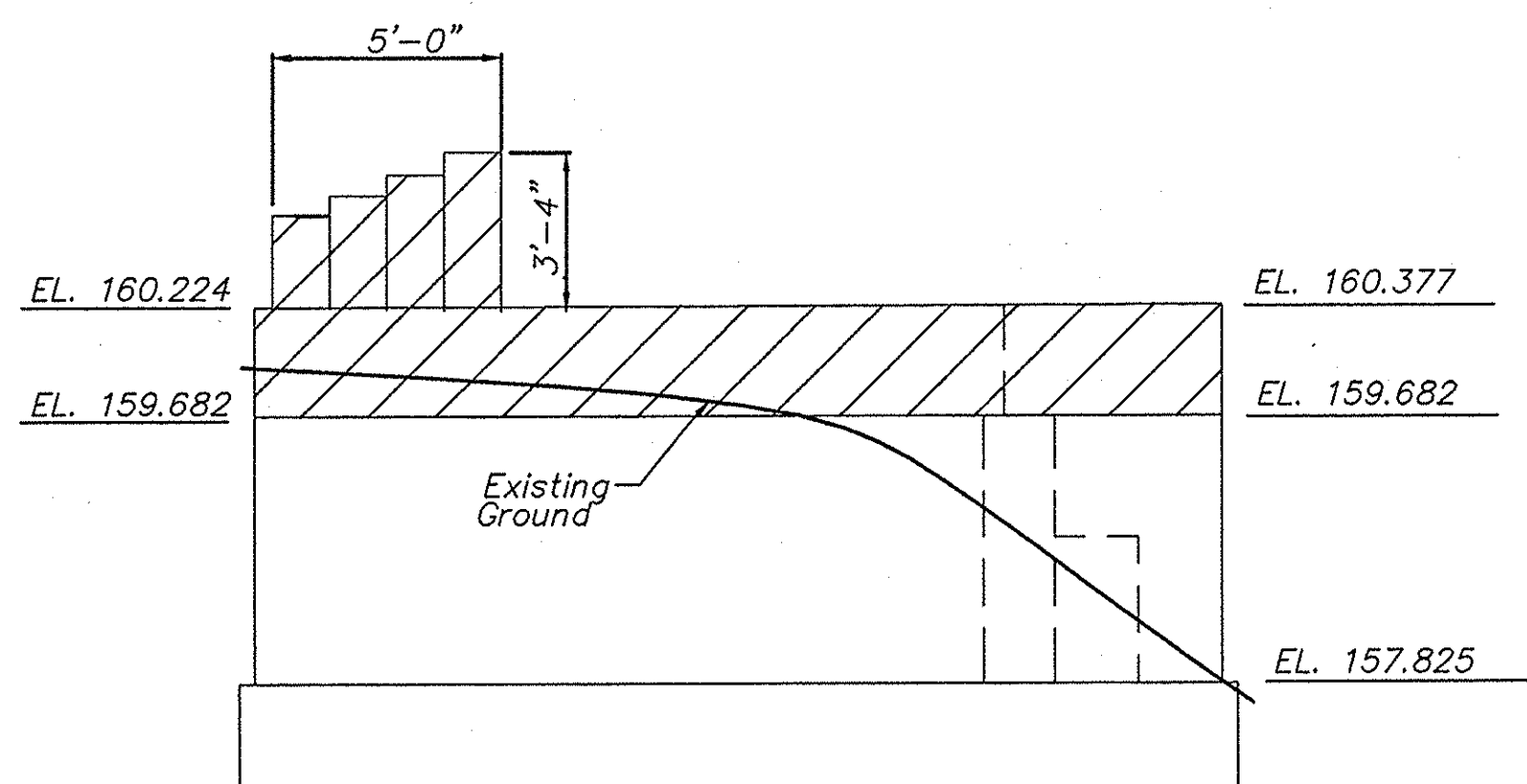
SECTION B-B

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



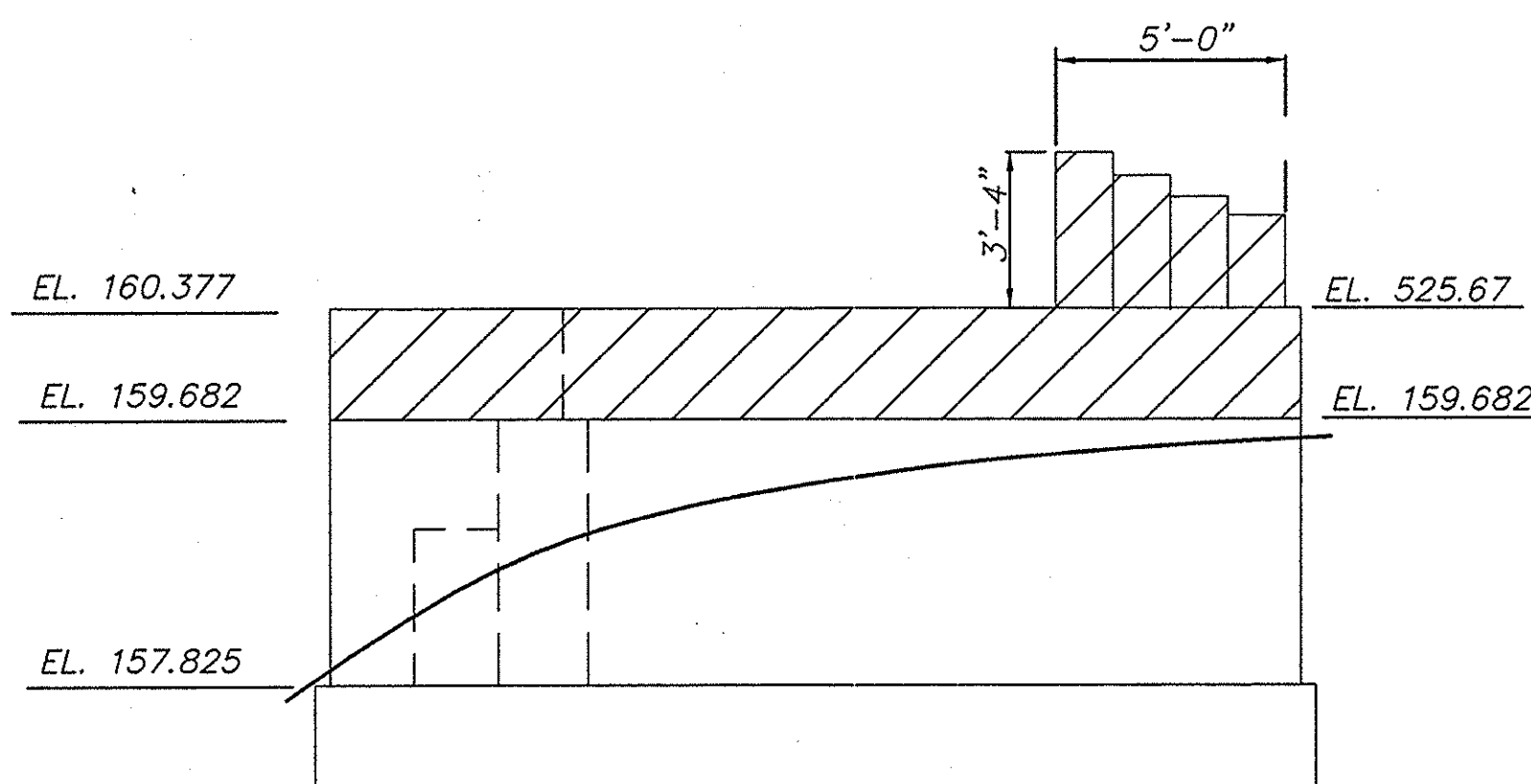
ELEVATION

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



WEST WINGWALL ELEVATION

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



EAST WINGWALL ELEVATION

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

NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH UNITS.
ALL ELEVATIONS ARE SHOWN IN METERS.

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DATE	DESCRIPTION	BY	SYM.
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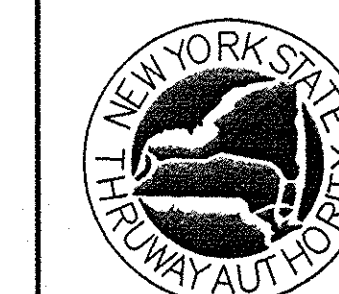
REVISIONS

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

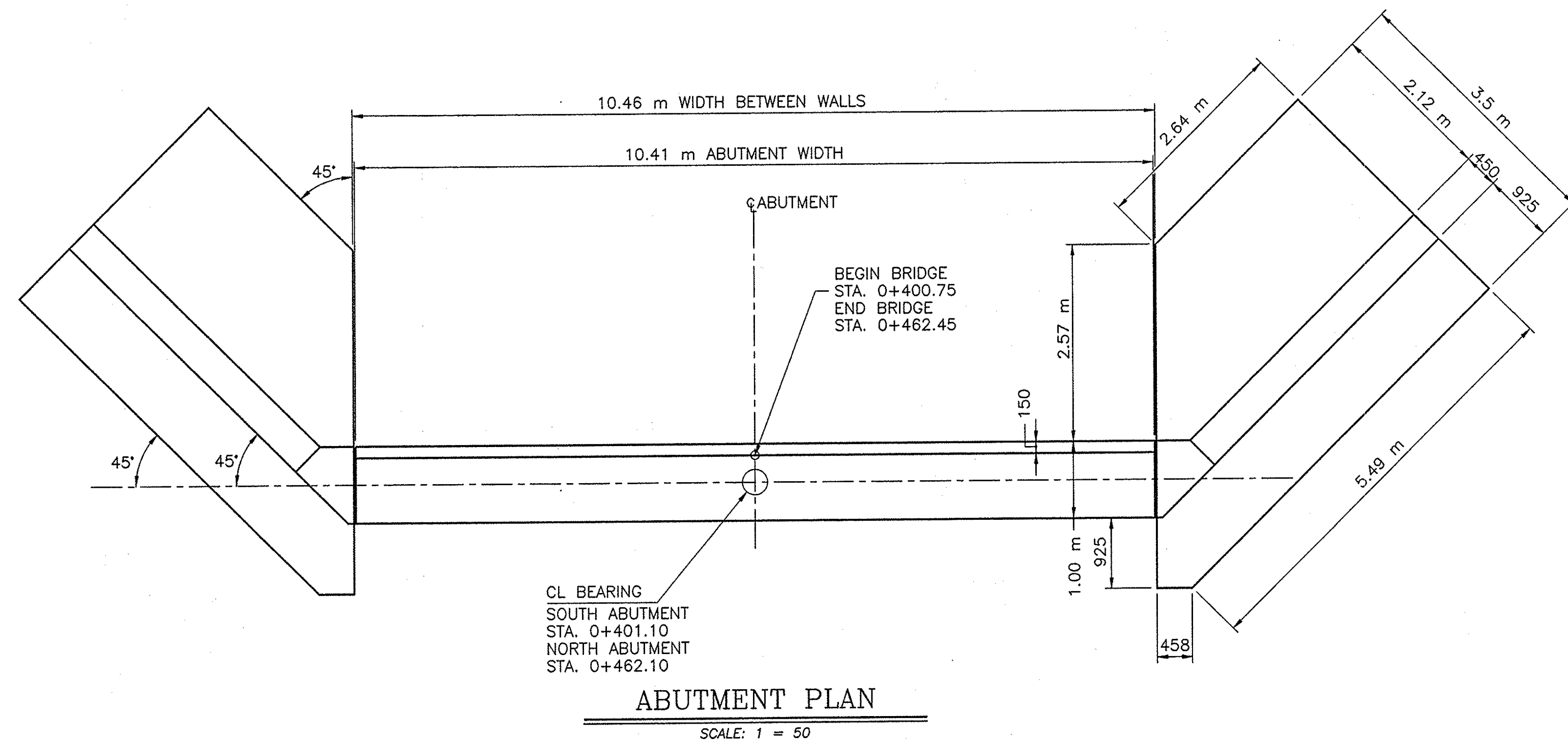
TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 321.08
BIRDSEY ROAD

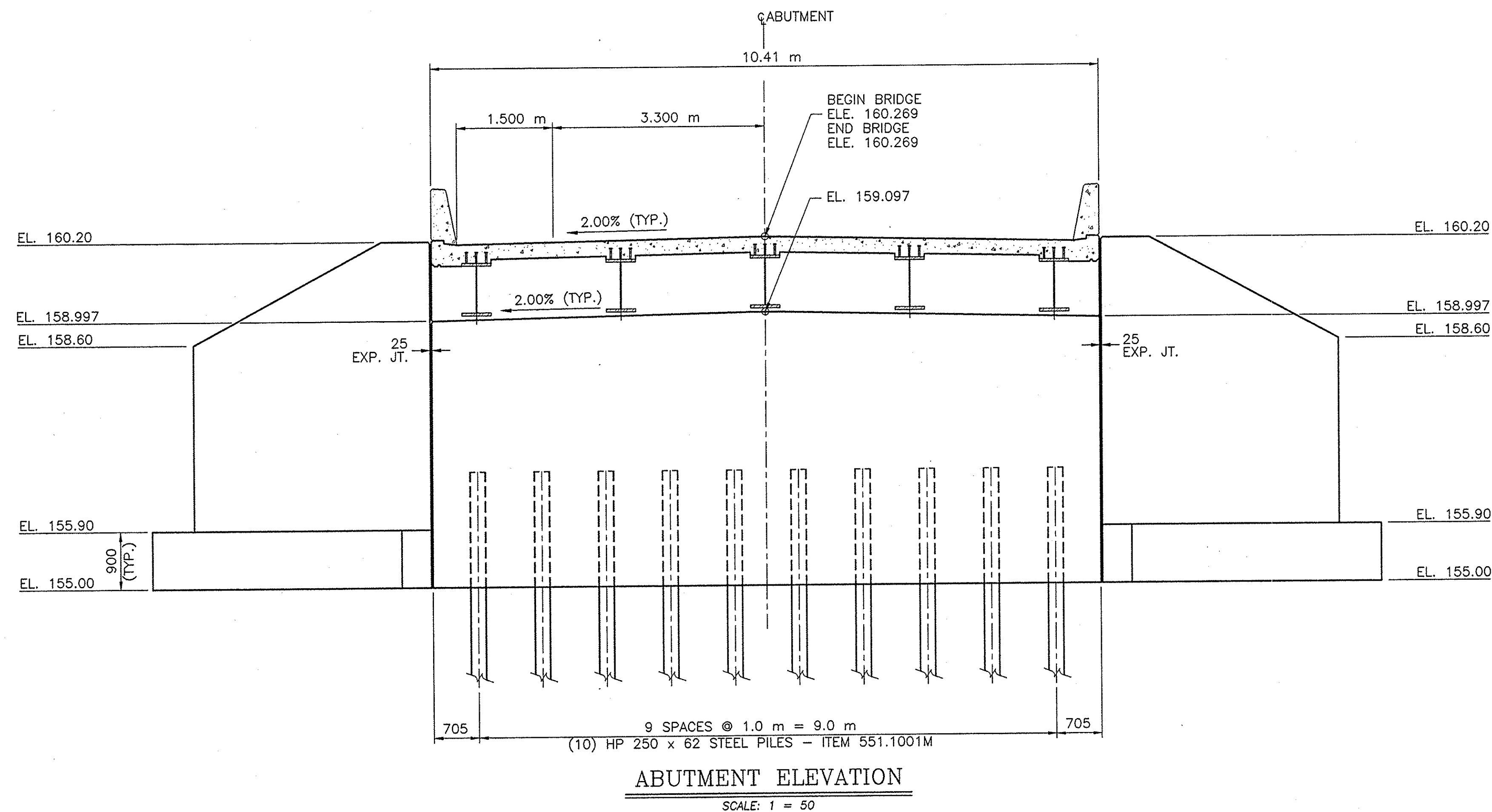
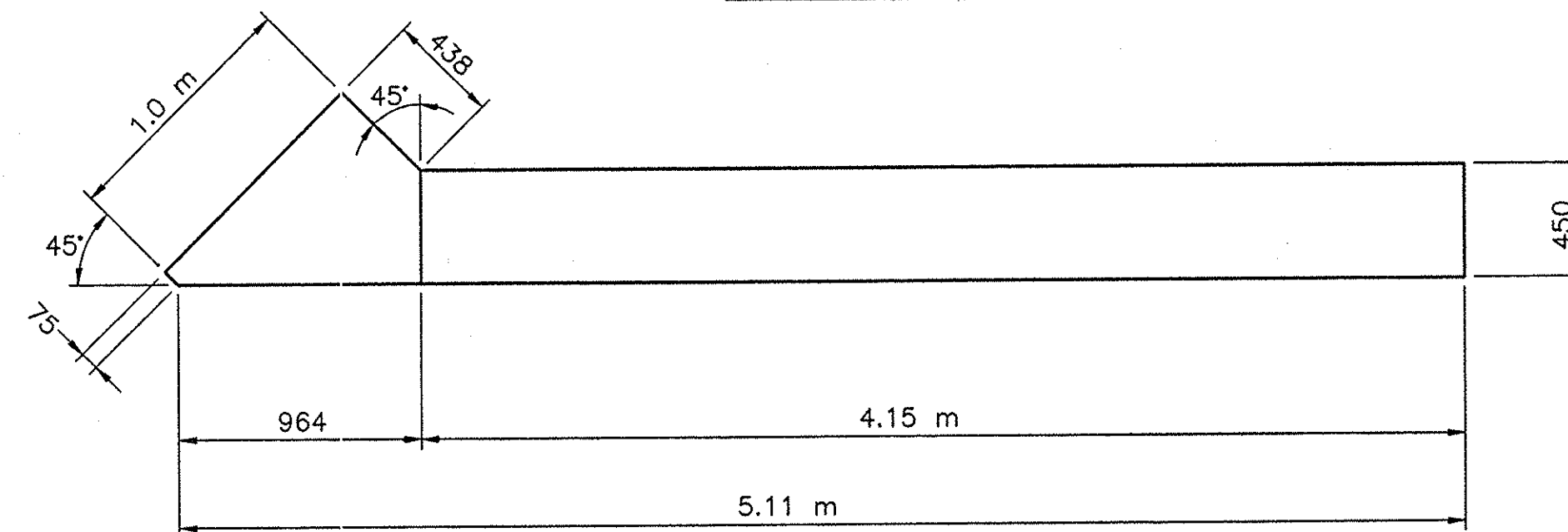
TITLE OF DRAWING
EXISTING NORTH ABUTMENT
REMOVAL DETAILS



CONTRACT NUMBER:
TAS 98-8B
DATE:
3/98
DRAWING NUMBER:
D7



MORTAR PAD ELEVATIONS				
G1	G2	G3	G4	G5
159.075	159.120	159.165	159.120	159.075



FOUNDATION NOTES CONT.

- IF ANY PORTIONS OF THE ABANDONED EXISTING SUBSTRUCTURES ARE WITHIN A 1.0 METER LATERAL LIMIT OF THE PROPOSED FOOTINGS, THEY SHALL BE COMPLETELY REMOVED IN THIS AREA. THE PORTION OF THE ABANDONED EXISTING SUBSTRUCTURES WHICH ARE BEYOND THIS LATERAL LIMIT SHALL BE REMOVED TO A DEPTH OF 600 mm LOWER THAN THE PROPOSED ROADWAY SUBGRADE OR 300 mm BELOW THE FINISHED GROUND LINE. BACKFILL OF THESE EXCAVATIONS SHALL BE WITH AN APPROPRIATE BACKFILL MATERIAL.
- THE PILES AT EACH INTEGRAL ABUTMENT SHALL BE INSERTED IN PREAUGERED 500 MILLIMETER DIAMETER HOLES THAT EXTEND 2.4 METERS BELOW THE BOTTOM OF EACH ABUTMENT STEM. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP EACH OF THESE HOLES OPEN DURING THE INSTALLATION OF THE PILES SO THAT CUSHION SAND CAN BE PLACED LOOSELY AROUND EACH PILE FOR THE FULL DEPTH OF THE PREAUGERED HOLE. THE COST OF AUGERING THESE HOLES, CASING, AND CUSHION SAND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PILE ITEM.
- THE USE OF MECHANICAL PILE SPLICES MAY BE ALLOWED ON THIS STRUCTURE CONTINGENT ON THE FOLLOWING REQUIREMENTS:
 - A SEAL WELD SHALL BE PLACED COMPLETELY AROUND THE TOP AND BOTTOM OF THE SPLICER SLEEVE.
 - NO SPLICER SLEEVES SHALL BE USED WITHIN 9.0 METERS OF THE PILE TIP.
 - USE OF MECHANICAL PILE SPLICES SHALL BE AVOIDED WITHIN 1.6 METERS OF THE CUT-OFF ELEVATION. WHEN THE LENGTH OF THE PILE IS KNOWN PRIOR TO DRIVING, THIS REQUIREMENT SHALL BE STRICTLY OBSERVED.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF BOULDERS IN THE AREA TO BE EXCAVATED OR RETAINED DURING CONSTRUCTION AT THE ABUTMENTS AND PIER. THE CONTRACTOR SHALL GOVERN HIS OPERATIONS AND PROCEDURES ACCORDINGLY, WITHIN THE APPROPRIATE SPECIFICATION ITEMS, INCLUDING THE SELECTION AND POSSIBLE USE OF SHEETING WITH SUFFICIENT SIZE AND SECTION TO WITHSTAND THE EXPECTED HARD DRIVING.
- THE FOOTING FOR THE WINGWALLS IS DESIGNED TO EXERT A MAXIMUM FOUNDATION PRESSURE OF 207 KPa.
- THE CONCRETE USED SHALL BE CLASS HP - ITEM 25555.0101M.

NOTE:
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED. ALL ELEVATIONS
ARE SHOWN IN METERS

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DATE	DESCRIPTION	BY	SYM.

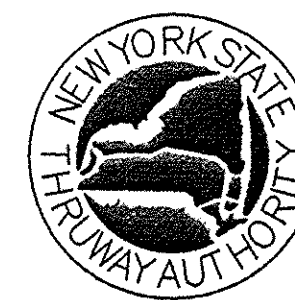
REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 321.08
BIRDSEY ROAD

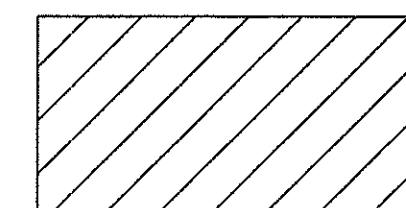
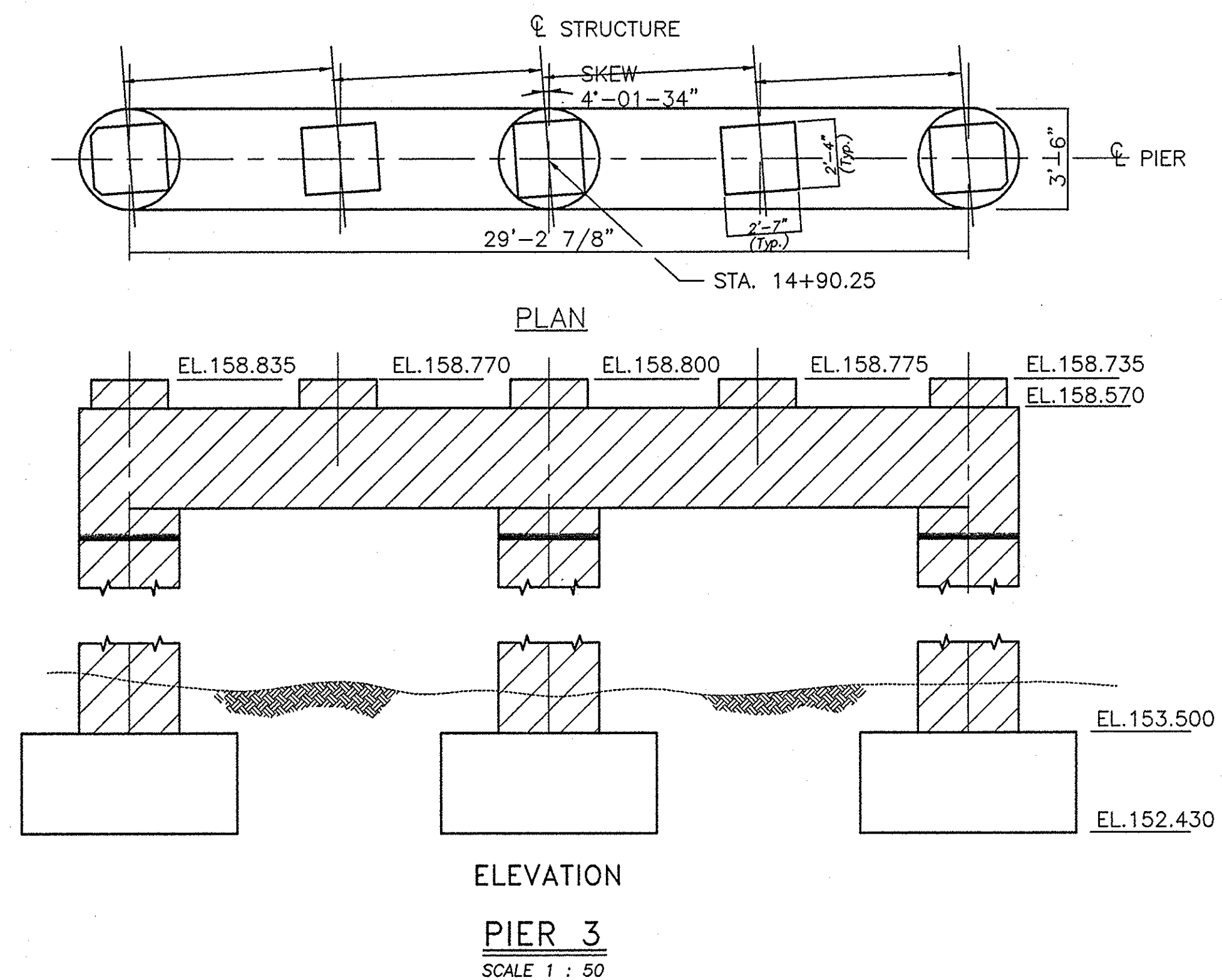
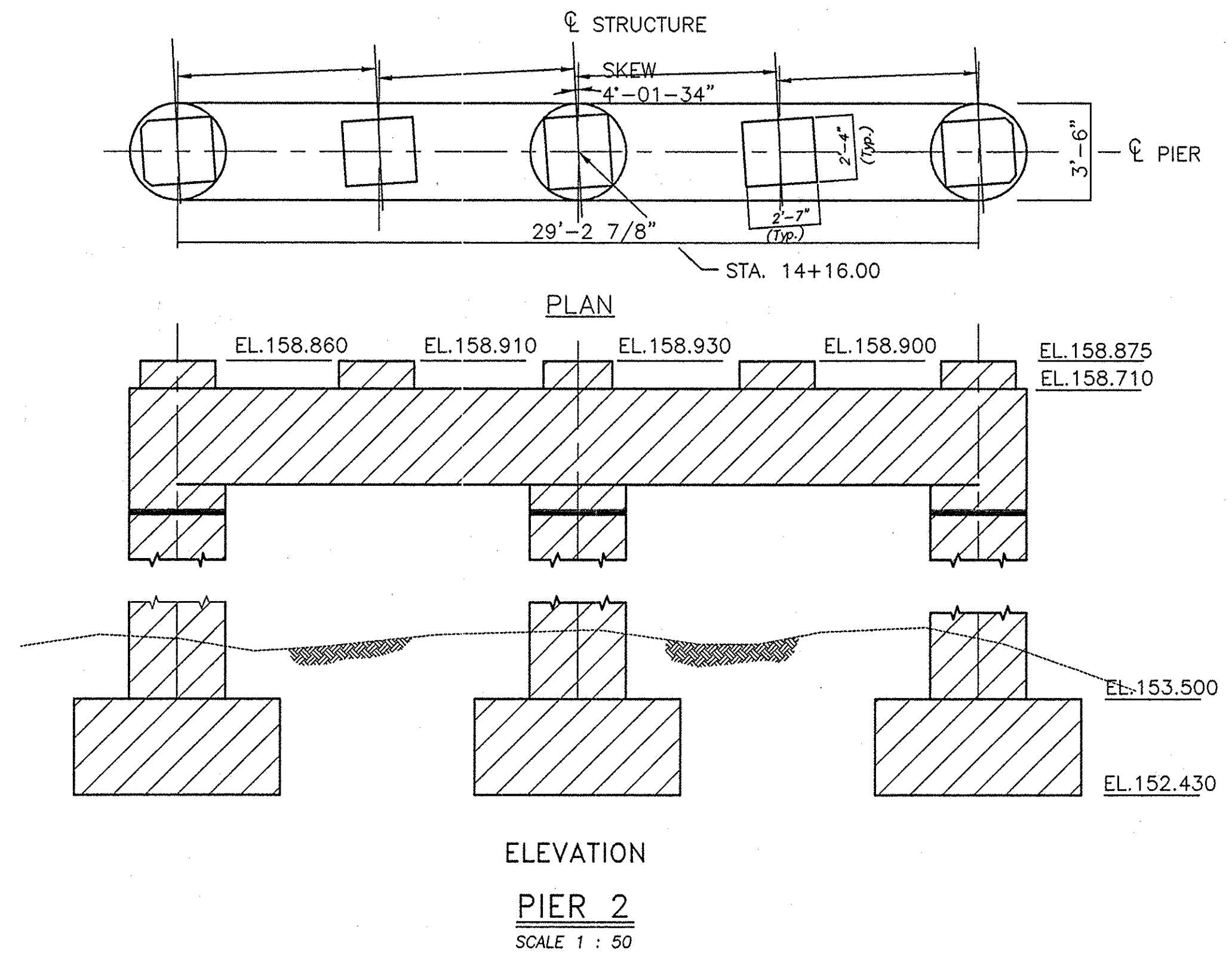
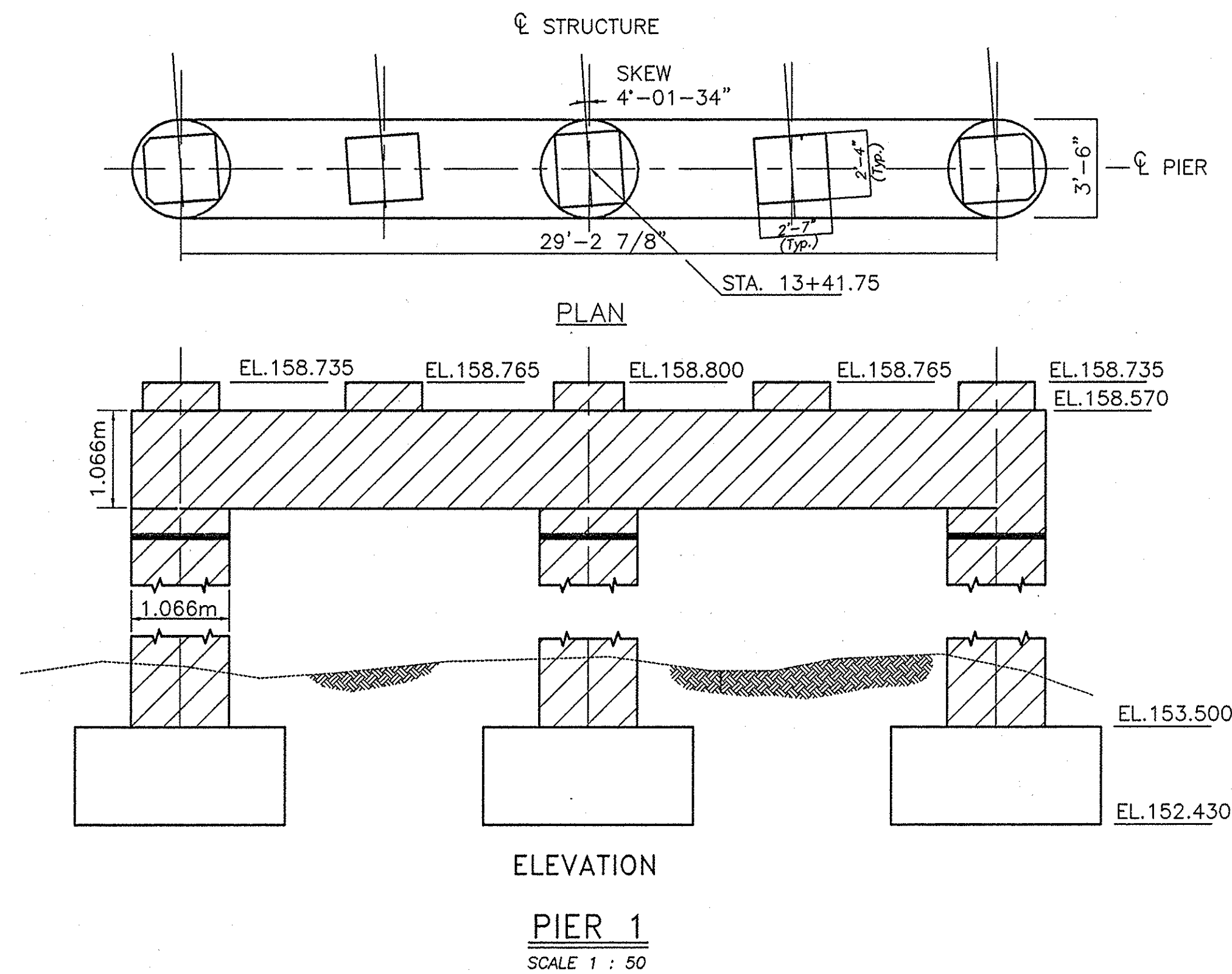
TITLE OF DRAWING
PROPOSED
ABUTMENT PLAN
AND ELEVATION



CONTRACT NUMBER:
TAS 98-8B

DATE:
4/98

DRAWING NUMBER:
D8



- SUBSTRUCTURE REMOVAL UNDER ITEM 202.19M
"REMOVAL OF SUBSTRUCTURES".

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 321.08
BIRDSEY ROAD

TITLE OF DRAWING
EXISTING PIER
REMOVAL DETAILS



CONTRACT NUMBER:
TAS 98-8B
DATE:
3/98
DRAWING NUMBER:
D9

NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH UNITS.
ALL ELEVATIONS ARE SHOWN IN METERS.

UNWAY AUTO
D10

MARK	SIZE	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H ₁	H ₂	J	K ₁	K ₂	L	O	R	REMARKS
DECK																					
13SG01	13	308	10.56 m	1	3233	150	10.28 m					150			100						TOP TRANSVERSE
13SG02	13	306	10.26	STR	3121																BOTTOM TRANSVERSE
13SG03	13	614	1.30 m	1	793	150	1.15 m								100						TOP TRANSVERSE OVERHANG
13SG04	13	102	9.41 m	1	954	150	9.26 m								100						TOP LONGITUDINAL ENDS
13SG05	13	104	9.26 m	STR	957																BOTTOM LONGITUDINAL ENDS
13SG06	13	515	9.26 m	STR	4740																TOP AND BOTTOM LONGITUDINAL
16SG07	16	614	1.05 m	17	1001		250	800													DECK INTO BACK OF BARRIER
16SG08	16	614	920	19	877		250	670				247			42						DECK INTO FRONT OF BARRIER
16SG09	16	100	6.67 m	STR	1035																TOP LONGITUDINAL (TENSION ZONE)
16SG10	16	3	10.26 m	STR	48																HORIZONTAL FRONT STEM CAP
16SG11	16	12	2.1 m	STR	39																HORIZONTAL BACK STEM CAP
16SG12	16	25	1.72 m	17	67		450	820	450												TOP OF STEM CAP
16SG13	16	25	1.05 m	19	41		350	700				250			250						FRONT FACE STEM CAP INTO DECK
16SG14	16	6	2.41 m	17	22		530	780	1.1 m												HORIZONTAL AROUND ENDS OF STEM CAP
16SG15	16	4	1.88 m	S11	12							900							140		DECK INTO BARRIER TRANSITION
16SG16	16	4	1.24 m	14	8	300	300	640				212			212						DECK INTO BARRIER TRANSITION (FRONT)
19SG17	19	35	3.2 m	14	250	650	450	2.1 m					320		320						BACK FACE STEM CAP INTO DECK
19SG18	19	35	1.55 m	17	121		800	750													MIDDLE STEM CAP INTO DECK
19SG19	19	8	10.26 m	STR	183																HORIZONTAL THROUGH GIRDER WEBS
19SG20	19	35	3.4 m	1	266	200	3.0 m					200			150						DECK END INTO APPROACH SLAB
22SG21	22	50	12.0 m	STR	1825																TOP LONGITUDINAL OVER PIER
subtotal = 19 593 kg																					
SOUTH APPROACH SLAB																					
16AP001	16	5	10.26 m	STR	80																TRANSVERSE TOP
16AP002	16	5	10.62 m	1	82	180	10.28 m					180			130						TRANSVERSE BOTTOM
16AP003	16	2	2.22 m	19	7		1.0 m	1.22 m				707			707						LONGITUDINAL FASCIA
16AP004	16	2	2.22 m	19	7		1.0 m	1.22 m				707			707						LONGITUDINAL FASCIA
16AP005	16	12	9.45 m	STR	176																TRANSVERSE TOP
16AP006	16	14	9.81 m	1	213	180	9.45 m					180			130						TRANSVERSE BOTTOM
16AP007	16	32	4.85 m	STR	241																LONGITUDINAL TOP
16AP008	16	8	1.88 m	S11	23							900							140		APPR. SLAB INTO BARRIER TRANSITION
16AP009	16	8	1.24 m	14	15	300	300	640				212			212						APPR. SLAB INTO BAR. TRANS. (FRONT)
16AP010	16	4	1.71 m	1	11	180	1.35 m					180			130						LONGITUDINAL TOP & BOTTOM
22AP011	22	60	5.35 m	1	976	250	4.85 m					250			180						LONGITUDINAL BOTTOM
subtotal = 1831 kg																					
NORTH APPROACH SLAB																					
16AP001	16	5	10.26 m	STR	80																TRANSVERSE TOP
16AP002	16	5	10.62 m	1	82	180	10.28 m					180			130						TRANSVERSE BOTTOM
16AP003	16	2	2.22 m	19	7		1.0 m	1.22 m				707			707						LONGITUDINAL FASCIA
16AP004	16	2	2.22 m	19	7		1.0 m	1.22 m				707			707						LONGITUDINAL FASCIA
16AP005	16	12	9.45 m	STR	176																TRANSVERSE TOP
16AP006	16	14	9.81 m	1	213	180	9.45 m					180			130						TRANSVERSE BOTTOM
16AP007	16	32	4.85 m	STR	241																LONGITUDINAL TOP
16AP008	16	8	1.88 m	S11	23							900							140		APPR. SLAB INTO BARRIER TRANSITION
16AP009	16	8	1.24 m	14	15	300	300	640				212			212						APPR. SLAB INTO BAR. TRANS. (FRONT)
16AP010	16	4	1.71 m	1	11	180	1.35 m					180			130						LONGITUDINAL TOP & BOTTOM
22AP011	22	60	5.35 m	1	976	250	4.85 m					250			180						LONGITUDINAL BOTTOM
subtotal = 1831 kg																					
Superstructure Total = 23 255 kg																					

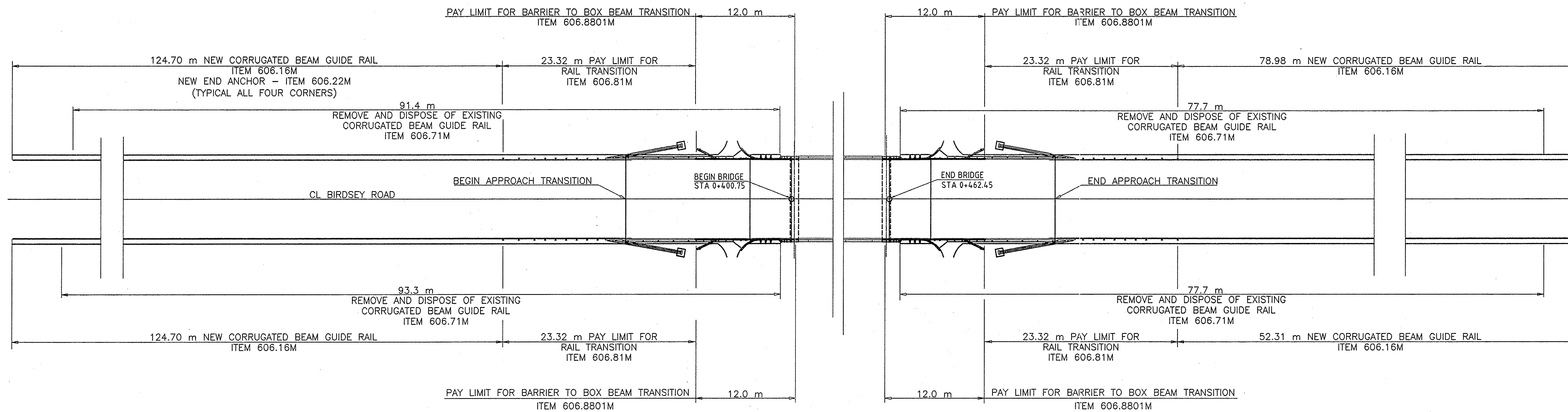
MARK	SIZE	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H ₁	H ₂	J	K K ₁	K ₂	L	O	R	REMARKS
MEDIAN PIER (M.P. 321.08)																					
FOOTING																					
13PG01	13	127	1044	T9	132	160	774						110	110							FRONT TO BACK TIES
13PG02	13	48	1.20 m	N18	57	160	876						160	110							TOP TO BOTTOM TIES
16PG03	16	12	8.05mAVG	14	150	6.6mAVG	200	500	200	550			150	150		150	150		800		HORIZ. STEM BASE(2 OF EACH LENGTH)
						A VARIES FROM 6.5 m TO 6.7 m.															
19PG04	19	12	6.55 m	19	176		300	6.25 m	⊗				290			-75					VERTICAL STEM ENDS
19PG05	19	20	9.45 m	1	422	200	9.05 m						200			150					LONGITUDINAL TOP
19PG06	19	31	6.25 m	1	433	200	5.85 m						200			150					TRANSVERSE TOP
29PG07	29	61	6.61 m	1	2040	380	5.85 m						380			300					TRANSVERSE BOTTOM
29PG08	29	40	9.81 m	1	1986	380	9.05 m						380			300					LONGITUDINAL BOTTOM
36PG09	36	106	6.66 m	2	5582	610	6.05 m						⊗								VERTICAL FOOTING INTO STEM
subtotal = 10 978 kg																					
STEM																					
13PG01	13	816	1044	T9	847	160	774						110	110							FRONT TO BACK TIES
16PG10	16	36	1.72 m	17	96		480	760	480												STEM INTO PEDESTAL ANCHORAGE
16PG11	16	26	8.53mAVG	14	344	7.1mAVG	200	500	200	550			150	150		150	150		800		HORIZ. STEM BOTTOM(2 OF EACH LENGTH)
						A VARIES FROM 6.85 m TO 7.3 m.															
16PG12	16	40	10.05mAVG	14	624	8.6mAVG	200	500	200	550			150	150		150	150		800		HORIZ. STEMMIDTOTOP(2 OF EACH LENGTH)
						A VARIES FROM 7.45 m TO 9.75 m.															
25PG15	25	6	11.15 m	N16	266		550	183	9.68 m	183	550		527	527		142	142		9.90 m	100	TOP OF STEM
25PG16	25	35	1.58 m	2	220	410		760				410									TOP OF STEM
subtotal = 2397 kg																					
PEDESTALS																					
16PG13	16	2	5.00 m	T1	16	200	1.50 m	800	1.50 m	800		200	140								FASCIA PEDESTAL
16PG14	16	3	6.20 m	T1	29	200	2.10 m	800	2.10 m	800		200	140								INTERIOR PEDESTAL
subtotal = 45 kg																					
TOTAL MEDIAN PIER = 13 420 kg																					

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DATE	DESCRIPTION	BY	SYM.

HAUNCH TABLE

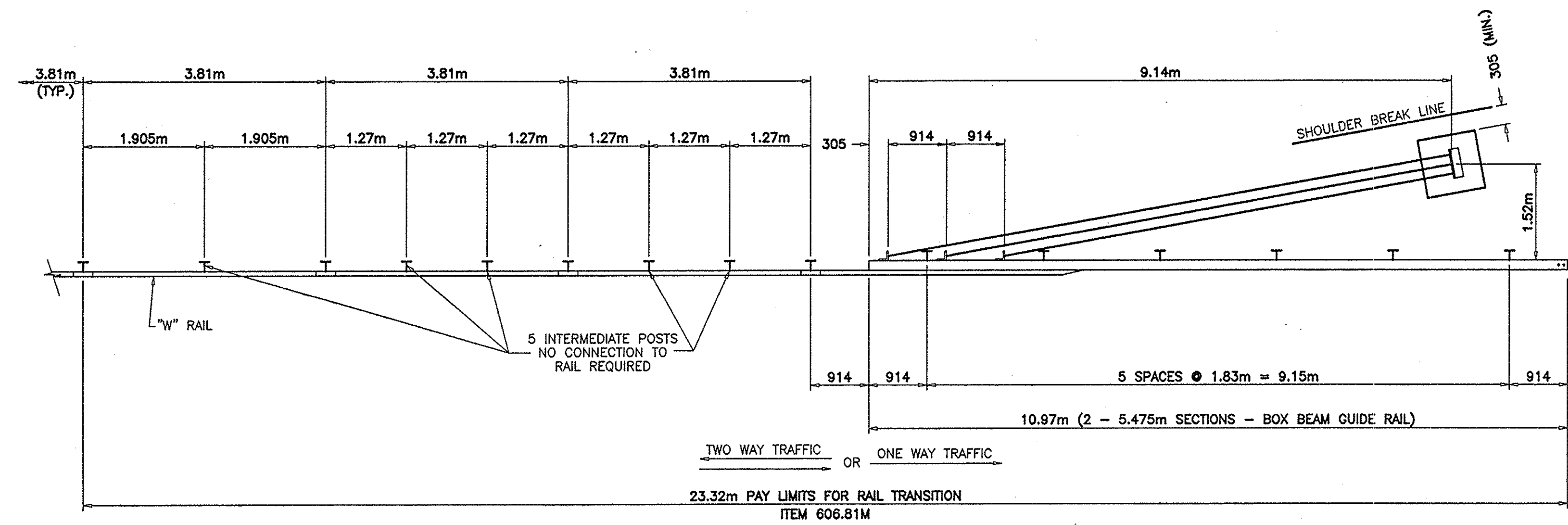
HAUNCH TABLE																							
HAUNCH TABLE		SPAN 1											SPAN 2										
		Q BRGS. SOUTH ABUTMENT	0.1L ₁	0.2L ₁	0.3L ₁	0.4L ₁	0.5L ₁	0.6L ₁	0.7L ₁	0.8L ₁	0.9L	Q BRGS. PIER 1	0.1L	0.2L ₁	0.3L ₁	0.4L ₁	0.5L ₁	0.6L ₁	0.7L ₁	0.8L ₁	0.9L ₁	Q BRGS. NORTH ABUTMENT	
GIRDER 1	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	159.944	159.985	160.022	160.055	160.082	160.104	160.122	160.134	160.142	160.146	160.147	160.146	160.142	160.134	160.122	160.104	160.082	160.055	160.022	159.985	159.944	GIRDER 1
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	159 886	159 954	160 015	160 061	160 096	160 118	160 126	160 124	160 131	160 116	160 106	160 106	160 111	160 116	160 127	160 119	160 101	160 066	160 018	159 956	159 886	
	C = (A) - (B) (m)	058	031	007	- 006	- 014	- 014	- 004	010	011	030	041	040	031	018	- 005	- 015	- 019	- 011	004	029	058	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	058	053	048	047	044	042	042	042	029	025	041	045	048	050	041	041	039	042	045	051	058	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	159.944	159.982	160.017	160.048	160.074	160.096	160.115	160.129	160.139	160.145	160.147	160.145	160.139	160.129	160.115	160.096	160.074	160.048	160.017	159.982	159.944	
GIRDER 2	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	159.989	160.030	160.067	160.100	160.127	160.149	160.167	160.179	160.187	160.191	160.192	160.191	160.187	160.179	160.167	160.149	160.127	160.100	160.067	160.030	159.989	GIRDER 2
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	159 922	159 995	160 058	160 107	160 144	160 163	160 168	160 162	160 170	160 158	160 153	160 161	160 173	160 174	160 179	160 173	160 152	160 120	160 068	160 003	159 928	
	C = (A) - (B) (m)	067	035	009	- 007	- 017	- 014	- 001	017	017	033	039	030	014	005	- 012	- 024	- 025	- 020	- 001	027	061	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	067	057	050	046	041	042	045	049	034	038	039	035	031	037	034	032	033	033	040	049	061	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	159.989	160.027	160.062	160.093	160.119	160.141	160.160	160.174	160.184	160.190	160.192	160.190	160.184	160.174	160.160	160.141	160.119	160.093	160.062	160.027	159.989	
GIRDER 3	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	160.034	160.075	160.112	160.145	160.172	160.194	160.212	160.224	160.232	160.236	160.237	160.236	160.232	160.224	160.212	160.194	160.172	160.145	160.112	160.075	160.034	GIRDER 3
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	159 976	160 044	160 101	160 147	160 181	160 201	160 209	160 209	160 216	160 203	160 199	160 206	160 216	160 218	160 223	160 220	160 200	160 165	160 114	160 048	159 974	
	C = (A) - (B) (m)	058	031	011	- 002	- 009	- 007	003	015	016	033	038	030	016	006	- 011	- 026	- 028	- 020	- 002	021	060	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	058	053	052	051	049	049	049	047	033	038	038	035	033	038	035	030	030	033	039	049	060	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	160.034	160.072	160.107	160.138	160.164	160.186	160.205	160.219	160.229	160.235	160.237	160.235	160.229	160.219	160.205	160.186	160.164	160.138	160.107	160.072	160.034	
GIRDER 4	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	159.989	160.030	160.067	160.100	160.127	160.149	160.167	160.179	160.187	160.191	160.192	160.191	160.187	160.179	160.167	160.149	160.127	160.100	160.067	160.030	159.989	GIRDER 4
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	159 926	160 000	160 063	160 111	160 146	160 166	160 168	160 160	160 161	160 153	160 147	160 161	160 176	160 179	160 180	160 171	160 151	160 116	160 066	160 001	159 929	
	C = (A) - (B) (m)	063	030	004	- 011	- 019	- 017	- 001	019	026	038	045	030	011	000	- 013	- 022	- 024	- 016	001	029	060	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	063	052	045	042	039	039	045	051	043	043	045	035	028	032	033	034	034	037	042	051	060	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	159.989	160.027	160.062	160.093	160.119	160.141	160.160	160.174	160.184	160.190	160.192	160.190	160.184	160.174	160.160	160.141	160.119	160.093	160.062	160.027	159.989	
GIRDER 5	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	159.944	159.985	160.022	160.055	160.082	160.104	160.122	160.134	160.142	160.146	160.147	160.146	160.142	160.134	160.122	160.104	160.082	160.055	160.022	159.985	159.944	GIRDER 5
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	159 887	159 955	160 009	160 049	160 078	160 097	160 104	160 103	160 111	160 101	160 100	160 109	160 123	160 126	160 126	160 116	160 091	160 059	160 011	159 956	159 889	
	C = (A) - (B) (m)	057	030	013	006	004	007	018	031	031	045	047	037	019	008	- 004	- 012	- 009	- 004	011	029	055	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	057	052	054	059	062	063	064	063	048	050	047	042	036	040	042	044	049	049	052	051	055	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	159.944	159.982	160.017	160.048	160.074	160.096	160.115	160.129	160.139	160.145	160.147	160.145	160.139	160.129	160.115	160.096	160.074	160.048	160.017	159.982	159.944	
GIRDER 1	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	159.944	159.985	160.022	160.055	160.082	160.104	160.122	160.134	160.142	160.146	160.147	160.146	160.142	160.134	160.122	160.104	160.082	160.055	160.022	159.985	159.944	GIRDER 1
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	159 886	159 954	160 015	160 061	160 096	160 118	160 126	160 124	160 131	160 116	160 106	160 106	160 111	160 116	160 127	160 119	160 101	160 066	160 018	159 956	159 886	
	C = (A) - (B) (m)	058	031	007	- 006	- 014	- 014	- 004	010	011	030	041	040	031	018	- 005	- 015	- 019	- 011	004	029	058	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	058	053	048	047	044	042	042	042	029	025	041	045	048	050	041	041	039	042	045	051	058	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	159.944	159.982	160.017	160.048	160.074	160.096	160.115	160.129	160.139	160.145	160.147	160.145	160.139	160.129	160.115	160.096	160.074	160.048	160.017	159.982	159.944	
GIRDER 2	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	159.989	160.030	160.067	160.100	160.127	160.149	160.167	160.179	160.187	160.191	160.192	160.191	160.187	160.179	160.167	160.149	160.127	160.100	160.067	160.030	159.989	GIRDER 2
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	159 922	159 995	160 058	160 107	160 144	160 163	160 168	160 162	160 170	160 158	160 153	160 161	160 173	160 174	160 179	160 173	160					



**EXISTING GUIDE RAIL REMOVAL
AND NEW GUIDE RAIL INSTALLATION**
SCALE: 1 : 250

NOTES

1. SEE DRAWINGS C21-C23 FOR BOX BEAM TO BARRIER TRANSITION DETAILS.
2. WINGWALLS NOT SHOWN.



**GUIDE RAIL TRANSITION
CORRUGATED BEAM TO BOX BEAM (ONE OR TWO WAY OPERATION)**
N.T.S.

- NOTES:**
1. SUBSTITUTE THIS DETAIL FOR THE ONE SHOWN ON STANDARD SHEET 606-15R1 FOR ITEM 606.81M.
 2. ON STANDARD SHEET 606-15R1 REVISE THE NOTE IN UPPER RIGHT THIRD OF THIS SHEET TO READ "TYPICAL CABLE ANCHOR, SEE DETAIL "F" ON THE CURRENT STANDARD SHEET TITLED CABLE GUIDE RAILING. SPRING COMPENSATORS ARE NOT REQUIRED IN THIS TRANSITION. *ALSO ADD THE FOLLOWING DIMENSION TO ANGLE IN DETAIL "C": L178x102x9.5

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

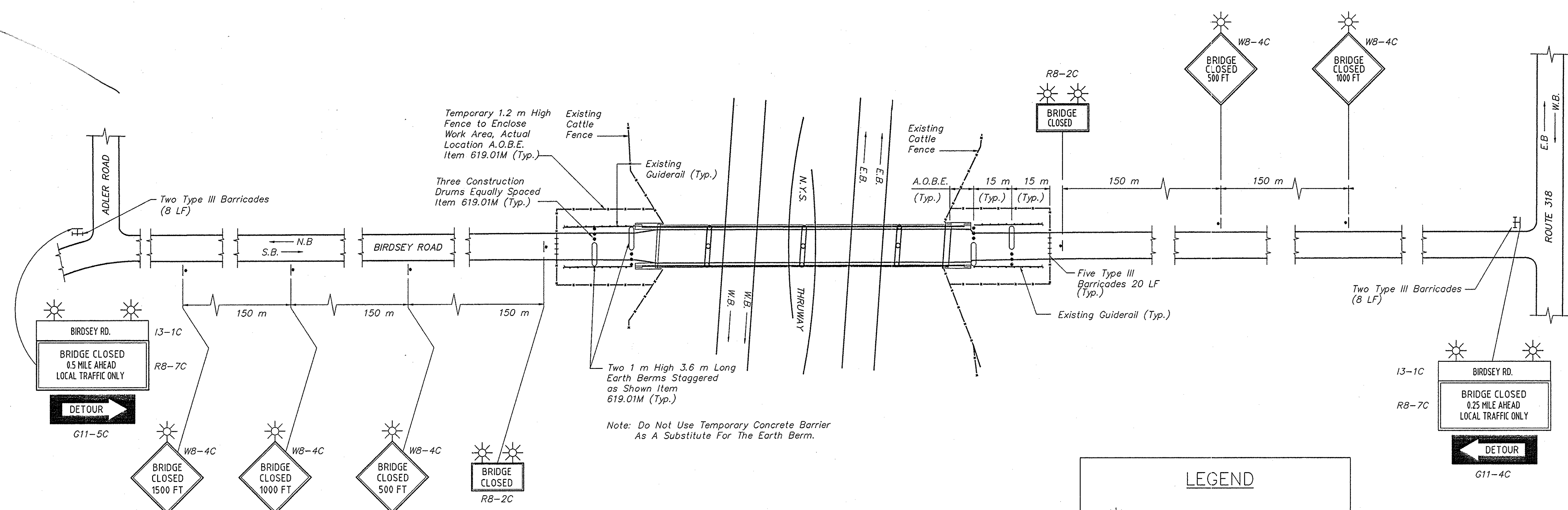
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT MP 321.08 BIRDSEY ROAD			
TITLE OF DRAWING EXISTING AND PROPOSED GUIDE RAIL LAYOUT			



CONTRACT NUMBER: TAS 98-8B	
DATE: 3/98	
DRAWING NUMBER: D13	

IN CHARGE OF: *[Signature]*
 DESIGNED BY: *[Signature]*
 DRAFTED BY: *[Signature]*
 CHECKED BY: *[Signature]*
 F:\BRIDGES\MP321.08\GUIDE RAIL

CHECKED BY: *[Signature]*
DRAFTED BY: *[Signature]*
DESIGNED BY: *[Signature]*
IN CHARGE OF: *[Signature]*



BRIDGE CLOSURE PLAN
N.T.S.

LEGEND

- Type A Lights Included in Price for Item 619.02
- Type B Flashers Included in Price for Item 619.02
- Plastic Drums (Item 619.01)
- Type III Barricade with Type B Flashers (Item 619.0413 and 619.0502)
- Signs (Item 619.02)
- 3 Foot High Earth Berm Paid Under Item 619.01
- Main Route of Traffic

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
M.P. 321.08
BIRDSEY ROAD

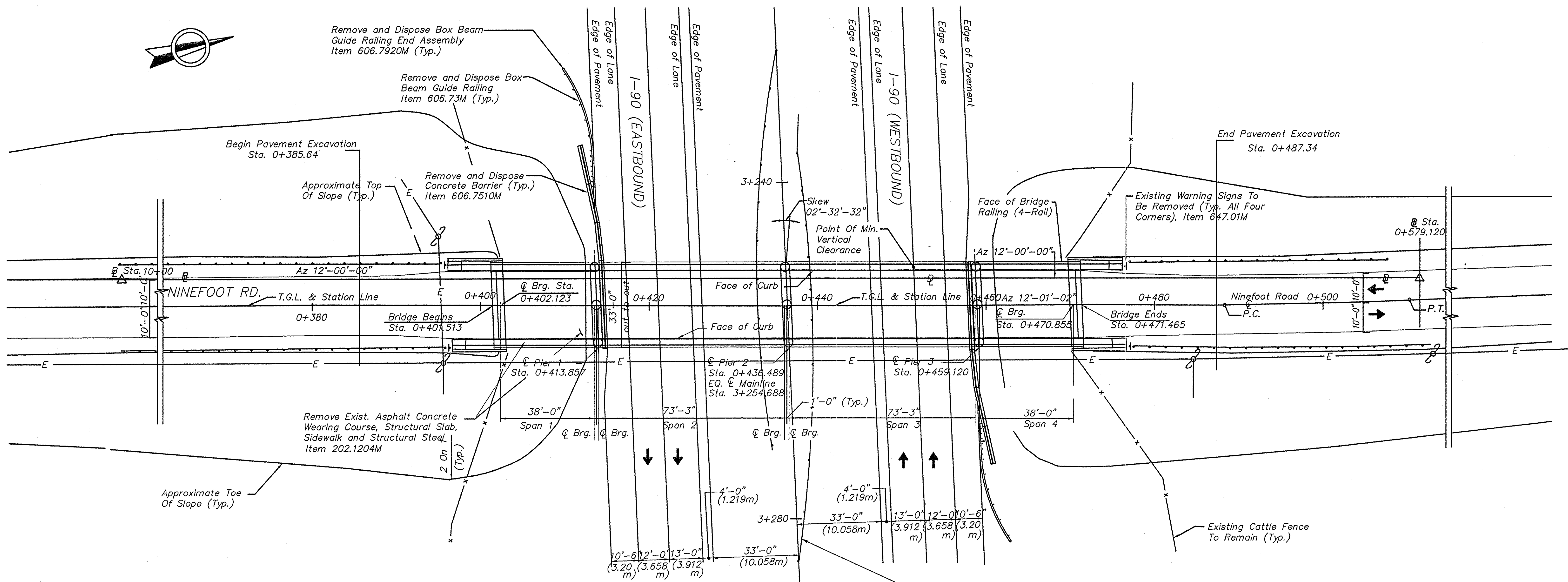
TITLE OF DRAWING
BRIDGE CLOSURE PLAN

CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
D14

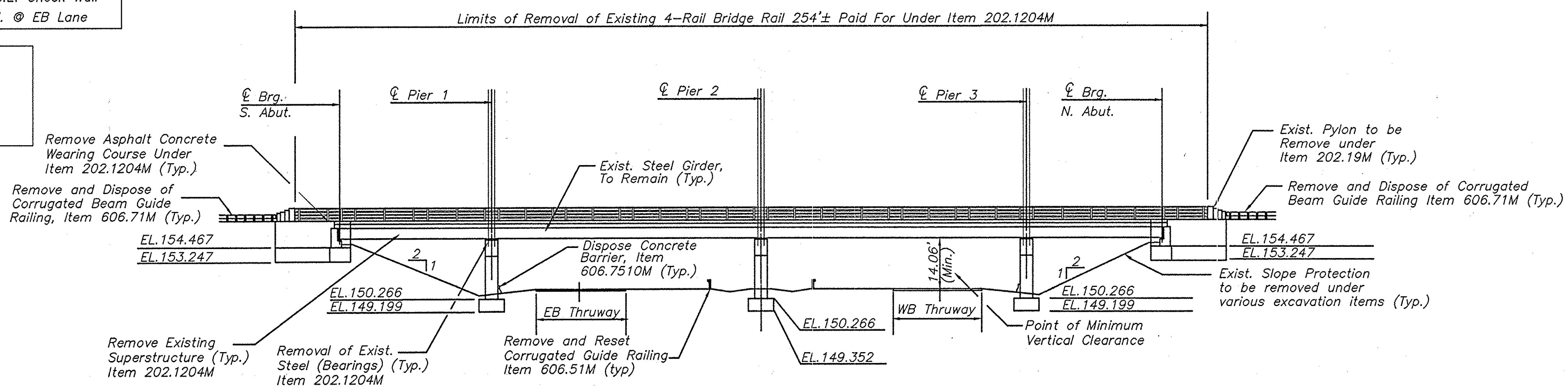
NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.



PLAN
SCALE: 1 : 250

M.P. 324.16 BENCH LIST		
BENCH I.D.	ELEVATION	DESCRIPTION
BM #1	153.616	R.R. Spk. In NYSEG 82A
BM #2	153.430	R.R. Spk. In NYSEG 84A
BM #CW	156.950	Chisel "X" In S.E. Check Wall
TBM #69	151.141	PK. In N. Shld. @ EB Lane

NOTICE:
EXISTING BORING LOCATIONS AND LOGS ARE LOCATED IN THE FOUNDATION REPORT AVAILABLE AT THE ALBANY HEADQUARTERS STRUCTURES DESIGN BUREAU.



ELEVATION
SCALE: 1 : 250

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.
1/24/00	Kul		

REVISIONS	
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS	
LOCATION OF PROJECT MP 324.16 NINE FOOT ROAD	
TITLE OF DRAWING EXISTING BRIDGE PLAN AND ELEVATION	



CONTRACT NUMBER: TAS 98-8B
DATE: 3/98
DRAWING NUMBER: E1

CHECKED BY: [Signature]
 DESIGNED BY: [Signature]
 IN CHARGE OF: [Signature]

SCALE: 1 : 250

SCALE: 1 : 125

E2


DRAFTED BY: XX

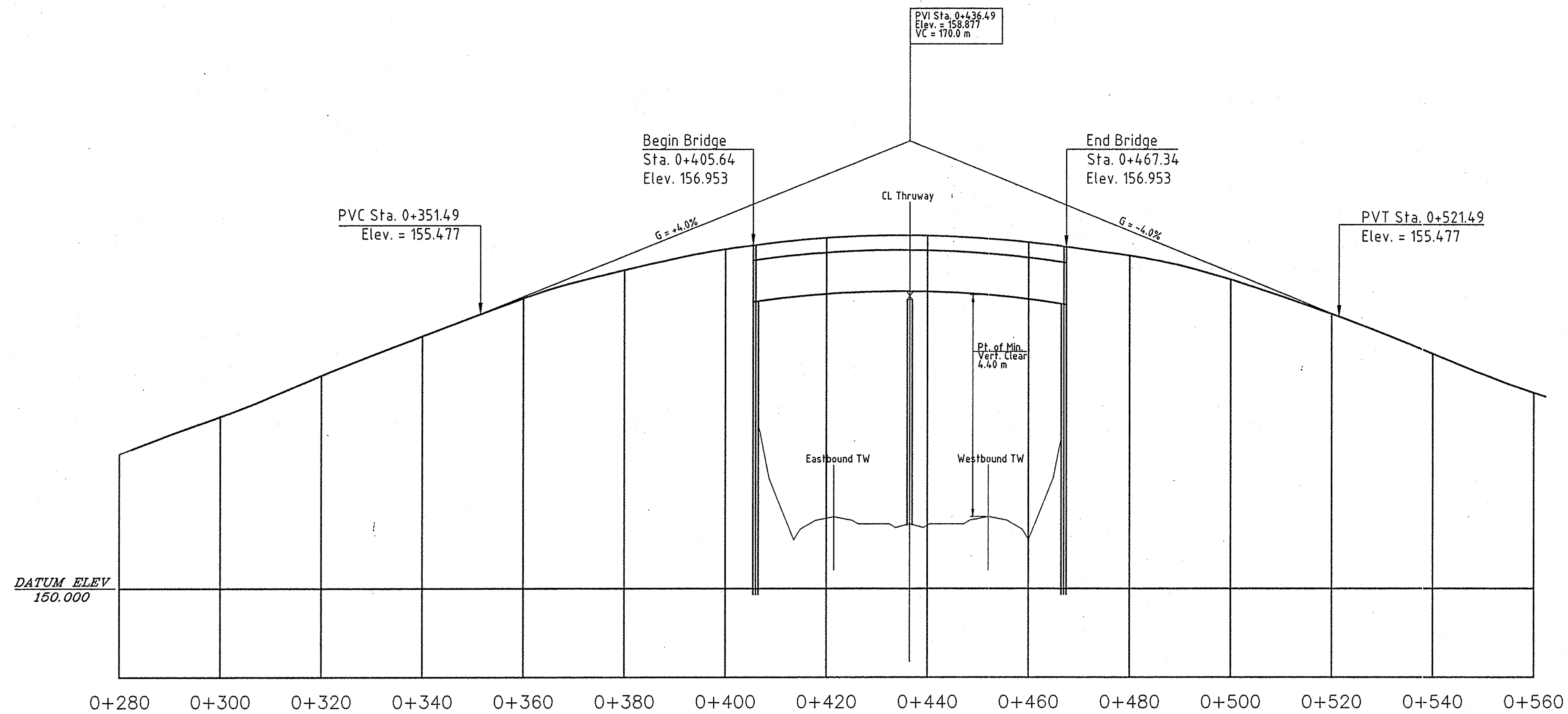
DESIGNED BY:

IN CHARGE OF: XX Richard A. D. Klein

ESTIMATE OF QUANTITIES				
ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
202.1204M	REMOVE EXISTING SUPERSTRUCTURE	LS	NEC	100.00
900.9808	A-SILT FENCE	M	—	25.00
202.19M	REMOVAL OF SUBSTRUCTURES	CM	90.0	149.62
901.9808	A-INSTALL PIER BEARING TIE-DOWN BRACKETS	EA	—	10.00
203.02M	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	172.0	237.35
902.9808	A-GEOTEXTILE BEDDING	SM	—	121.92
17203.0801M	SLCT GRANLR FLL, SLP PROT STRS	CM	43.0	80.76
906.9808	A-RADAR DETECTOR ACTIVATOR	LS	—	20.00
203.21M	SELECT STRUCTURE FILL	CM	590.0	554.71
206.01M	STRUCTURE EXCAVATION	CM	585.0	655.34
209.01M	TEMP. SOIL EROSION AND WATER POLLUTION CONTROL	FLS	0.2	0.00
304.03M	SUBBASE COURSE TYPE 2	CM	111.0	125.13
403.11M	ASPHALT CONCRETE TYPE 1 BASE COURSE	MT	11.0	49.87
403.13M	ASPHALT CONCRETE-TYPE 3 BINDER COURSE	MT	14.0	42.53
403.17M	ASPH CONC - TYPE 6F TOP COURSE (HIGH FRICTION)MARSHALL DESIGN	MT	37.0	44.24
907.9808	A-PILE SPLICES	EA	—	22.00
407.01M	TACK COAT	L	64.0	20.65
908.9808	A- PROT SCREENING FOR BRIDGES, ALTERNATE POST MOUNTING	EA	—	38.00
490.30M	MISC. COLD MILL OF BIT CONC.	SM	200.0	180.00
25502.5001M	SAWCUTTING OF ASPHALT CONCRETE	M	54.0	103.32
909.9808	A- ADDITIONAL SIGN SERIES	LS	—	20.00
551.09M	FURNISHING EQUIPMENT FOR DRIVING PILES	LS	NEC	20.00
551.1001M	STEEL BEARING PILES (HP 250 X 62)	M	1088.0	735.25
910.9808	PA-RESET R.O.W. FENCING AT BLACK BROOK BIRDSEY & NINE FOOT ROADS	LS	—	33.00
552.05M	SAFE OPERATE SHEET PILING (MIN. BID-80 CENTS)	SM	196.0	0.00
25555.0101M	CONCRETE FOR STRUCTURES-CLASS HP	CM	257.0	248.71
911.9808	A-PLANTING VIBURNUM TOMENTOSUM	EA	—	16.00
25555.0466M	HI PERF. CONC. FOR STRUC CL HP (ST SLAB W/ INT WEAR SUR BFR)	SM	643.0	643.00
25555.0468M	HP CONC FOR STRUCT, CLASS HP (STR APP SLAB W/INT WEAR SURF)	SM	100.0	100.00
556.03M	STUD SHEAR CONNEC. FOR BRIDGES	EA	2490	2631.00
25556.99M	GALV. BAR REINFORCMENT FOR STR	KG	45 883	47455.68
558.01M	TRANSVR SAWCUT GROOVE STR SLAB	SM	646.0	646.00
25559.1696M	PROT. SEAL OF STRUC. CONCRETE	SM	1324.0	1324.00
25564.519804M	TRANS. & ERECT. OF STRUCT. STEEL	LS	NEC	100.00
565.1722M	TYPE M.R. FIXED BEARINGS	EA	5	5.00

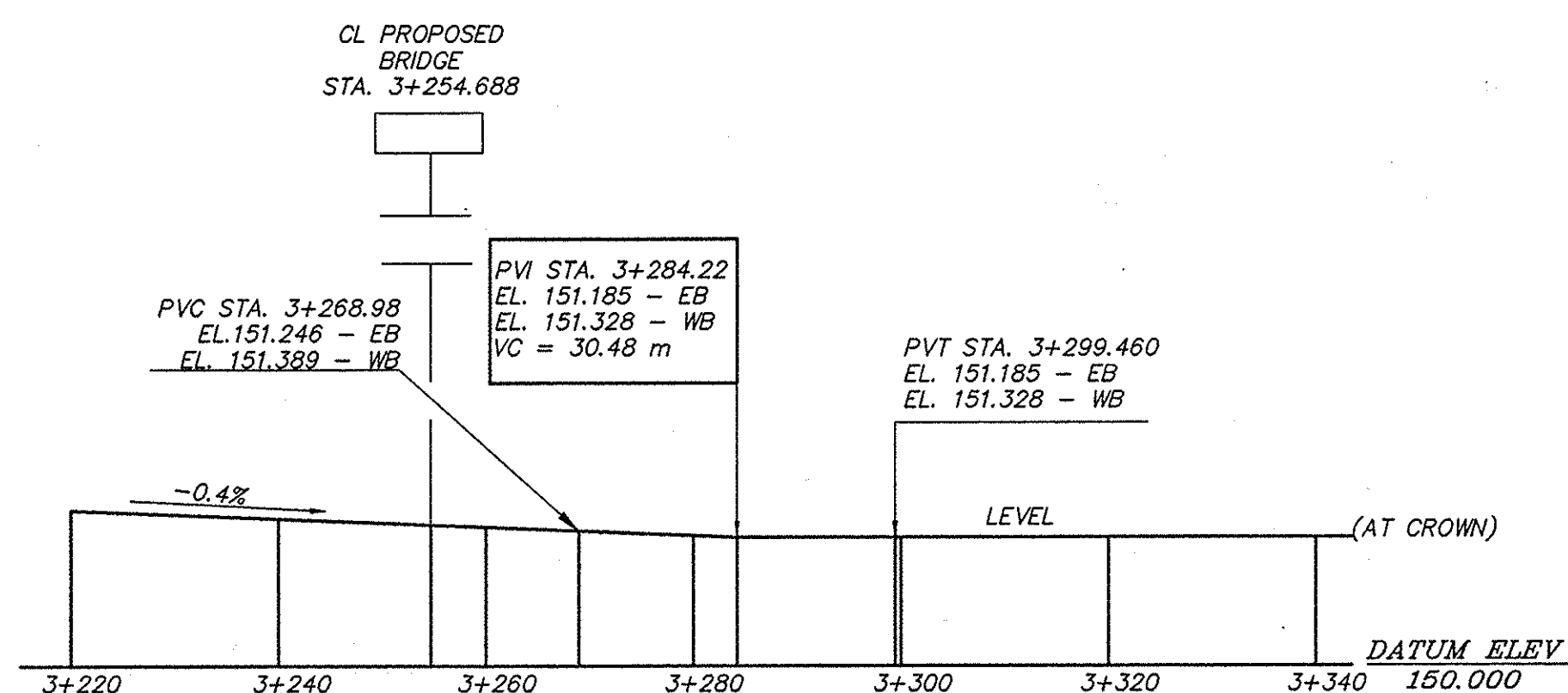
ESTIMATE OF QUANTITIES				
ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
25569.02M	PERM. CONC. BARRIER CLASS HP	M	128.6	130.78
570.0904M	ENV. GROUND PROTECTION	LS	NEC	0.00
571.0101M	TREAT. & DISP. OF PAINT REM. WASTE	CM	0.2	0.00
605.1001M	UNDERDRAIN FILTER TYPE 2	CM	47.0	30.94
606.16M	CORRUGATED BEAM GUIDE RAILING	M	328.0	331.47
606.22M	ANCHORAGE UNIT FOR CORR. BM. G.R.	EA	4	4.00
606.51M	RESETTING CORR. BEAM GUIDE RAILING	M	116.0	135.64
606.71M	REM. & DISP. CORR. BM. G.R.	M	388.0	325.46
606.73M	REM. & DISP. BOX BM. GUIDE RAILING	M	113.0	107.24
606.7510M	REM. & DISP. CONC. BARR. HALF SEC.	M	49.0	48.64
606.7920M	REM. & DISP. BX. BM. END ASSEMBLY	EA	2	2.00
606.81M	G.R. TRANS. CORR. BM. TO BOX BM.	EA	4	4.00
606.8801M	BOX BM. G.R. TRANS. TO CONC. BARR.	EA	4	4.00
25607.0611M	PROTECTIVE SCREENING BRIDGES	M	115.2	115.20
607.19M	RIGHT OF WAY FENCING	M	70.0	
609.0201M	STONE CURB -- GRANITE (TYPE A)	M	21.2	18.05
611.034163M	PLANTING PINUS NIGRA	EA	8	8.00
611.046342M	PLANTING RHUS AROMATICA	EA	112	112.00
611.049662M	PLANTING VIBURNUM TOMENTOSUM	EA	16	0.00
619.01M	BASIC MAINTENANCE & PROTECTION OF TRAFFIC	LS	NEC	20.00
619.02M	CONSTRUCTION SIGNS	LS	NEC	20.00
619.0303M	FLASHING ARROW BOARDS	LS	NEC	20.00
619.0413M	TYPE III CONSTRUCT. BARRICADES	M	17.0	14.40
619.0502M	LIGHTING FOR CONST. BARRICADES	M	12.0	16.80
25619.1701M	TEMPORARY CONCRETE BARRIER	M	195.0	268.00
25619.1704M	CONCRETE BARRIER MARKERS	EA	8	8.00
25637.070102M	ENGINEER'S OFFICE -- TYPE C	MOS	4.0	4.00
699.04M	MOBILIZATION	LS	NEC	20.00

12/24/05 <i>Ben W. Lacer</i>			
DATE	DESCRIPTION	BY	SYM
<p style="text-align: center;">REVISIONS</p>			
<p style="text-align: center;">NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209</p>			
<p>TITLE OF PROJECT 5 BRIDGE REPLACEMENTS</p>			
<p>LOCATION OF PROJECT MP 324.16 NINE FOOT ROAD</p>			
<p>TITLE OF DRAWING ESTIMATE OF QUANTITIES</p>			
		<p>CONTRACT NUMBER: TAS 98-8B</p>	
		<p>DATE: 3/98</p>	
		<p>DRAWING NUMBER: E3</p>	



PROPOSED PROFILE - NINEFOOT ROAD

SCALE: 1:500 HORIZ.
SCALE: 1:50 VERT.



EXISTING PROFILE - NYS THRUWAY

SCALE: 1:500 HORIZ.
SCALE: 1:50 VERT.

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.
7/24/98	CHP		

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 324.16
NINE FOOT ROAD

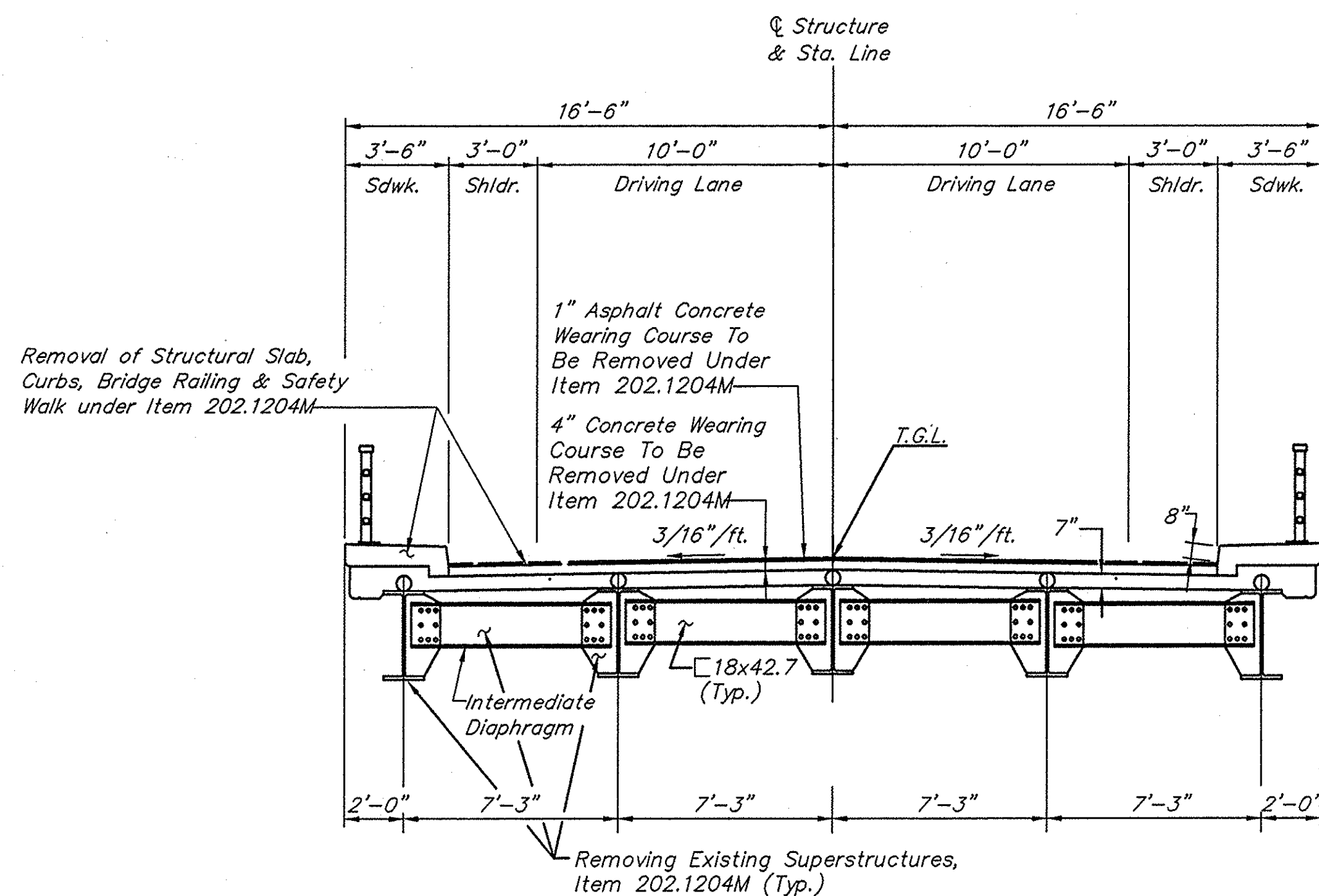
TITLE OF DRAWING
PROFILES



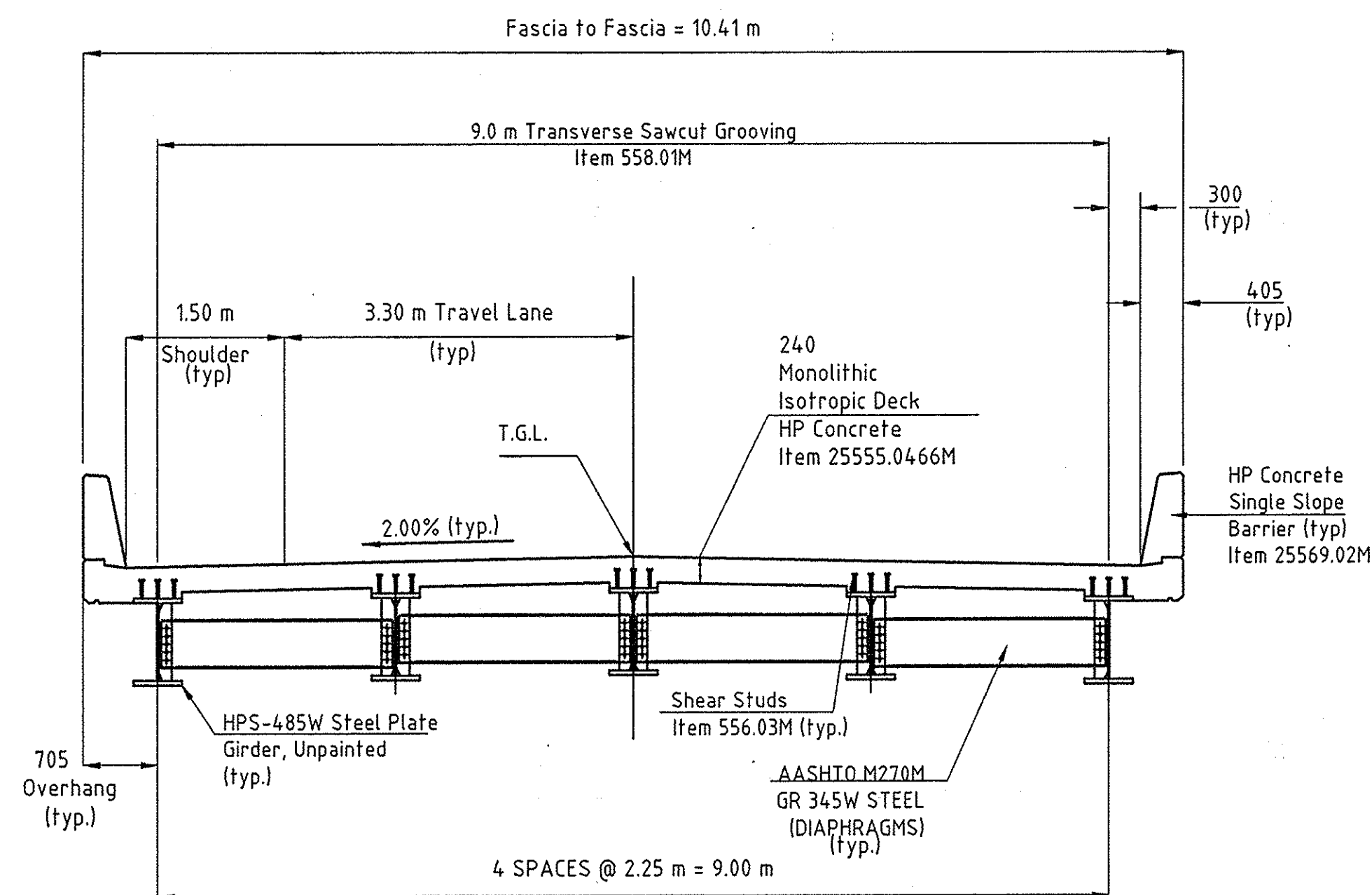
CONTRACT NUMBER:
TAS 98-8B
DATE:
3/98
DRAWING NUMBER:
E4

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE
SHOWN IN METERS.

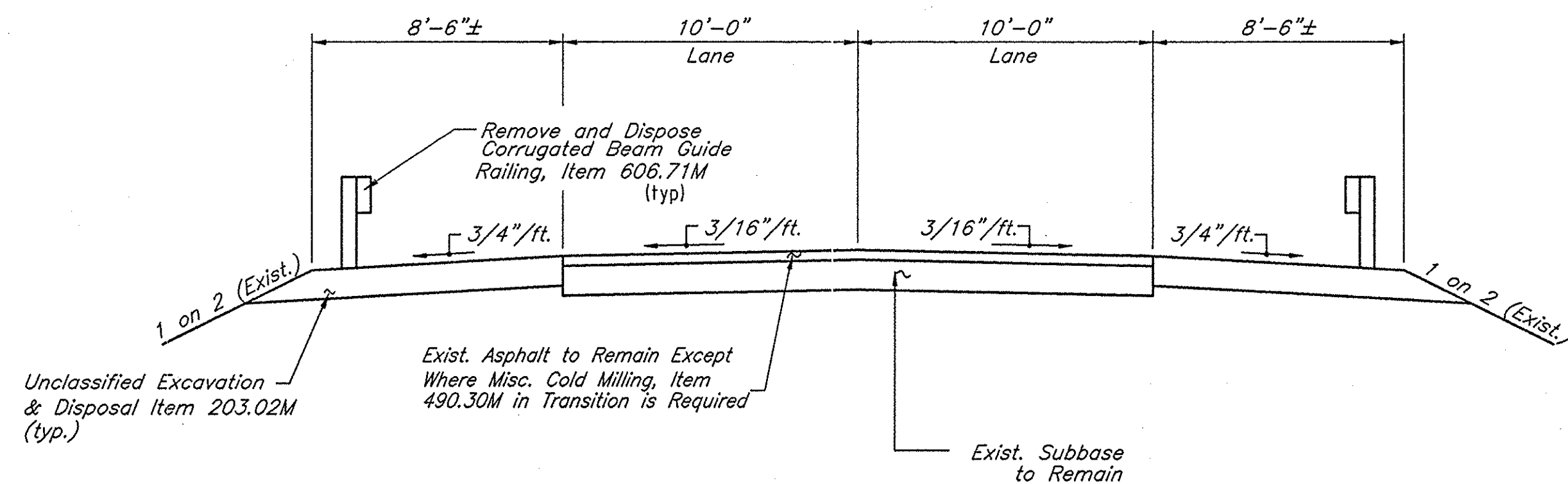
IN CHARGE OF: *Richard A. Adelman*
DESIGNED BY: *[Signature]*
DRAFTED BY: *[Signature]*
CHECKED BY: *[Signature]*
FILED BRIDGES 32416 PROFILE



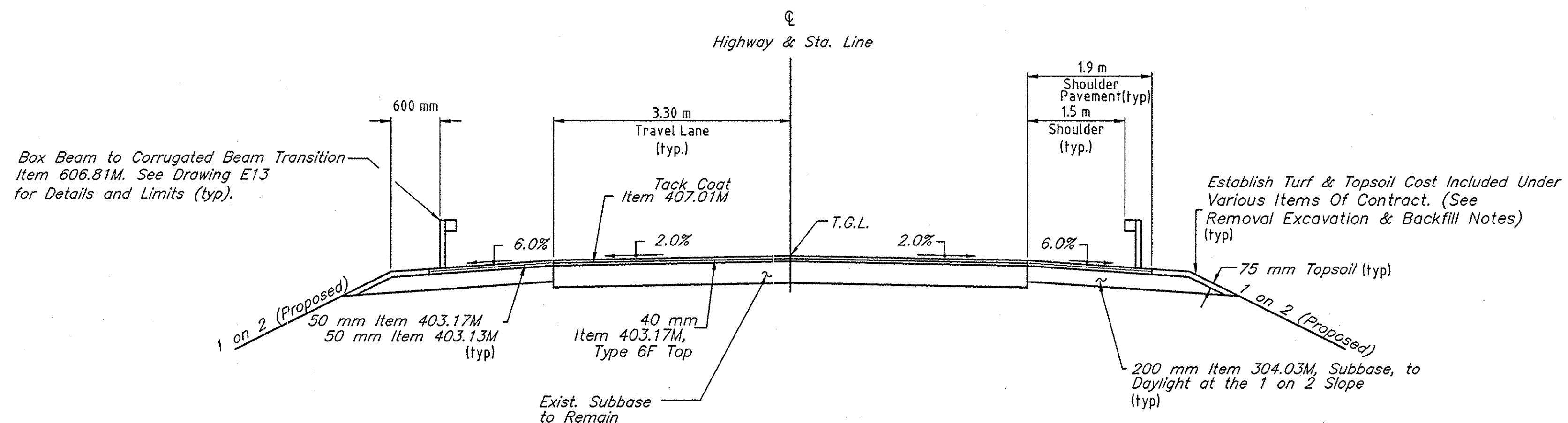
EXISTING BRIDGE SECTION
Scale: 1/4" = 1'-0"



PROPOSED BRIDGE SECTION
Scale: 1 : 50



EXISTING HIGHWAY SECTION
Scale: 1/4" = 1'-0"



PROPOSED HIGHWAY SECTION
Scale: 1 : 50
@ "Begin Approach Slab" and "End Approach Slab".

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT MP 324.16 NINE FOOT ROAD			
TITLE OF DRAWING EXISTING AND PROPOSED BRIDGE AND HIGHWAY SECTIONS			

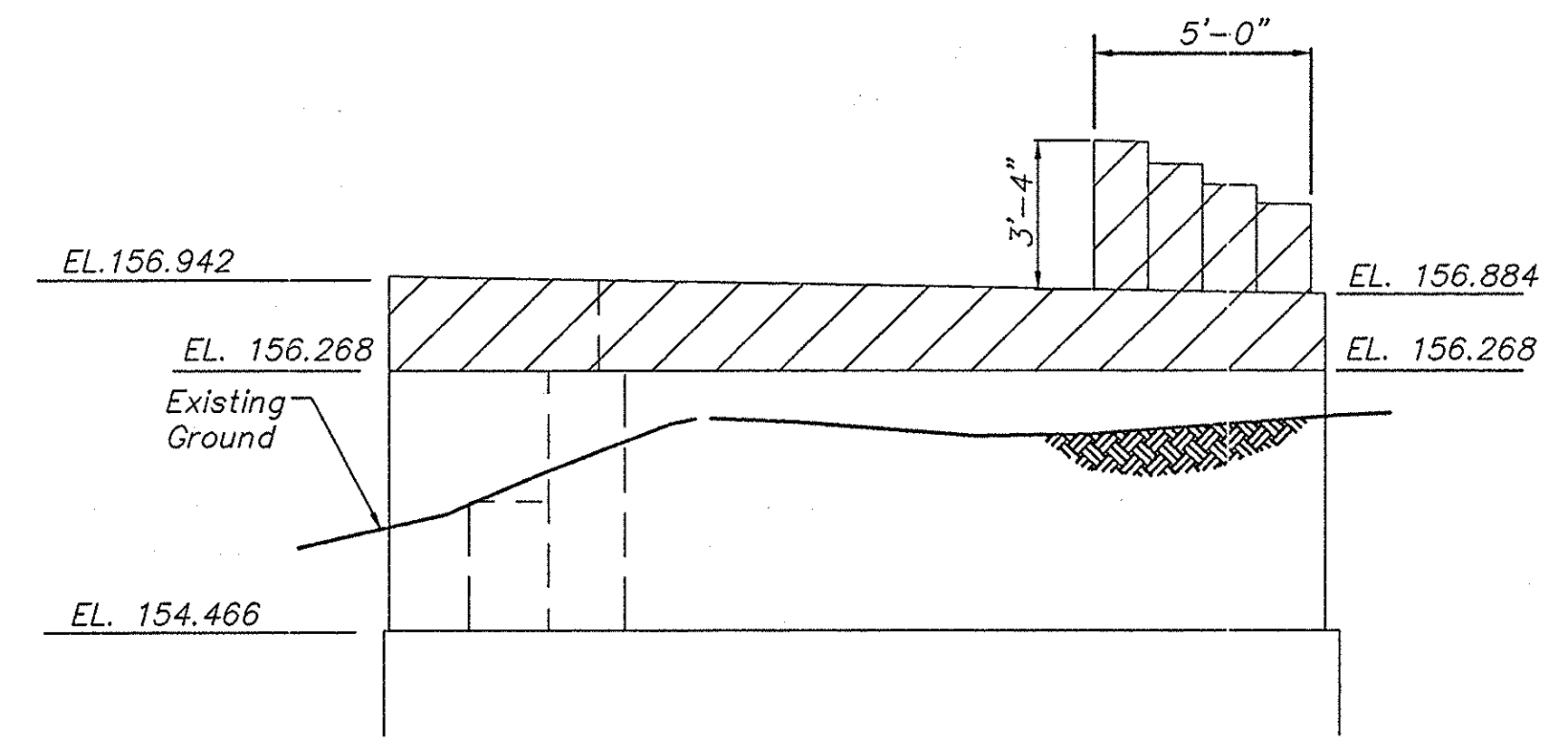
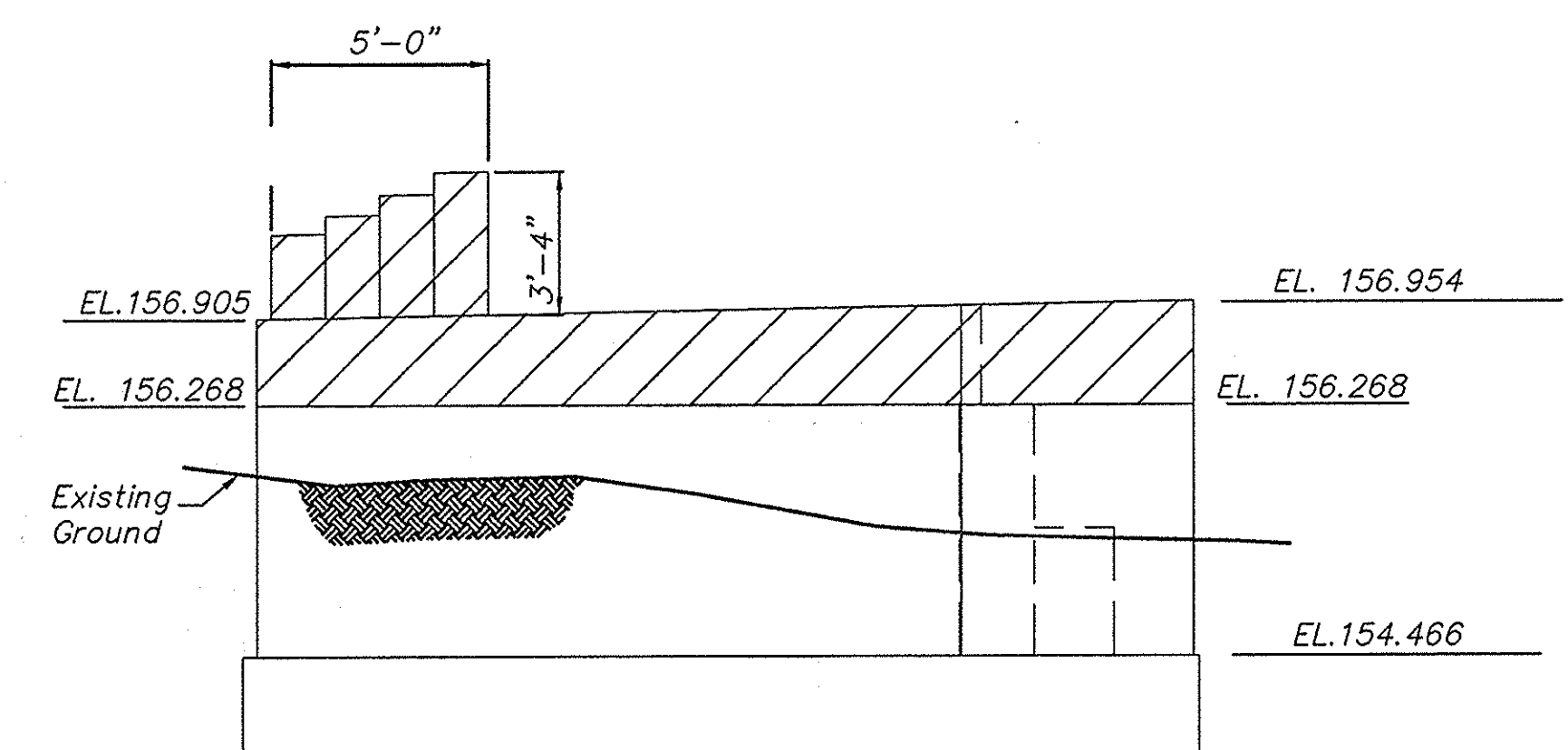
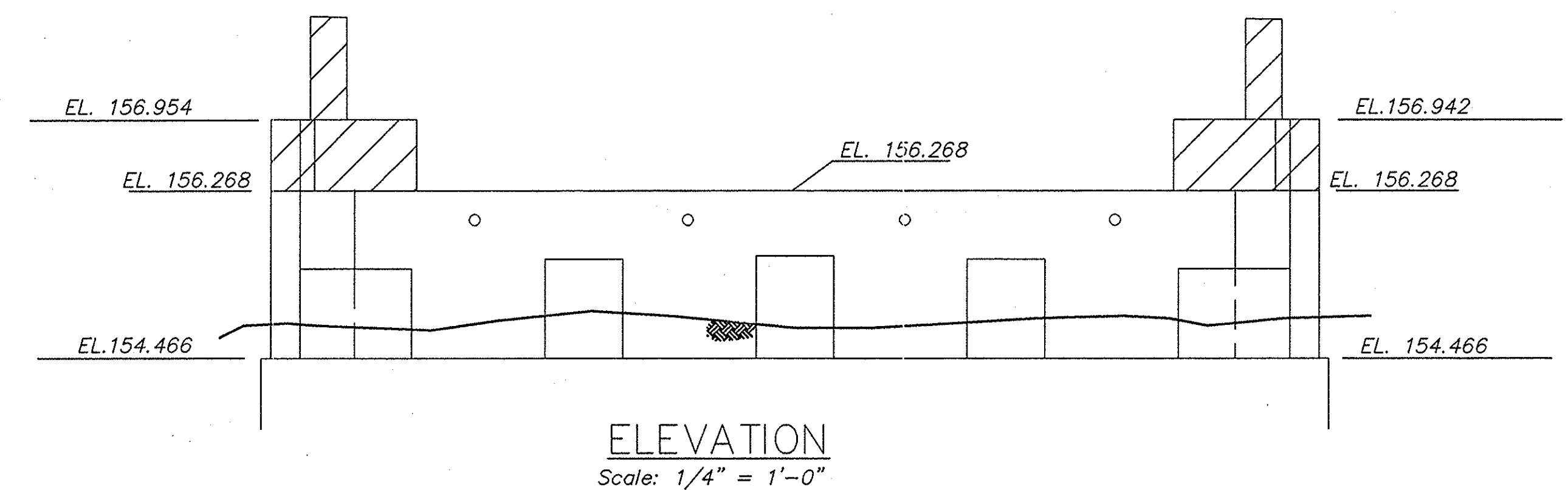
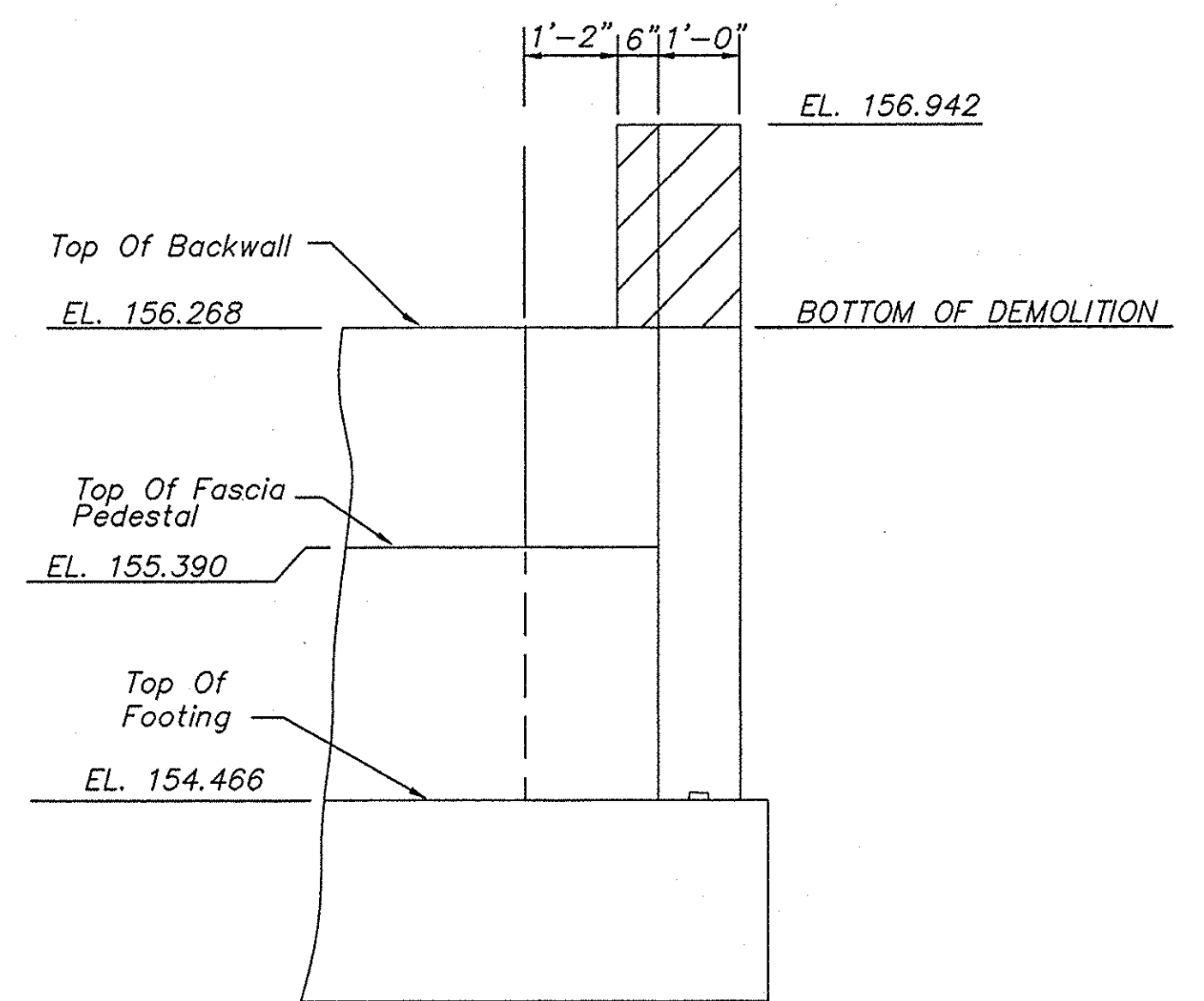
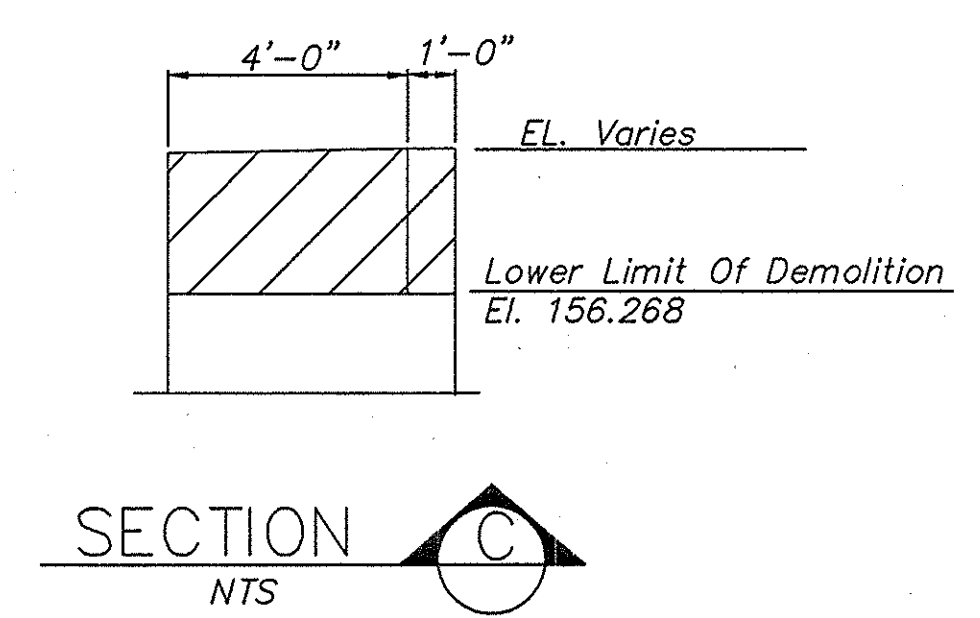
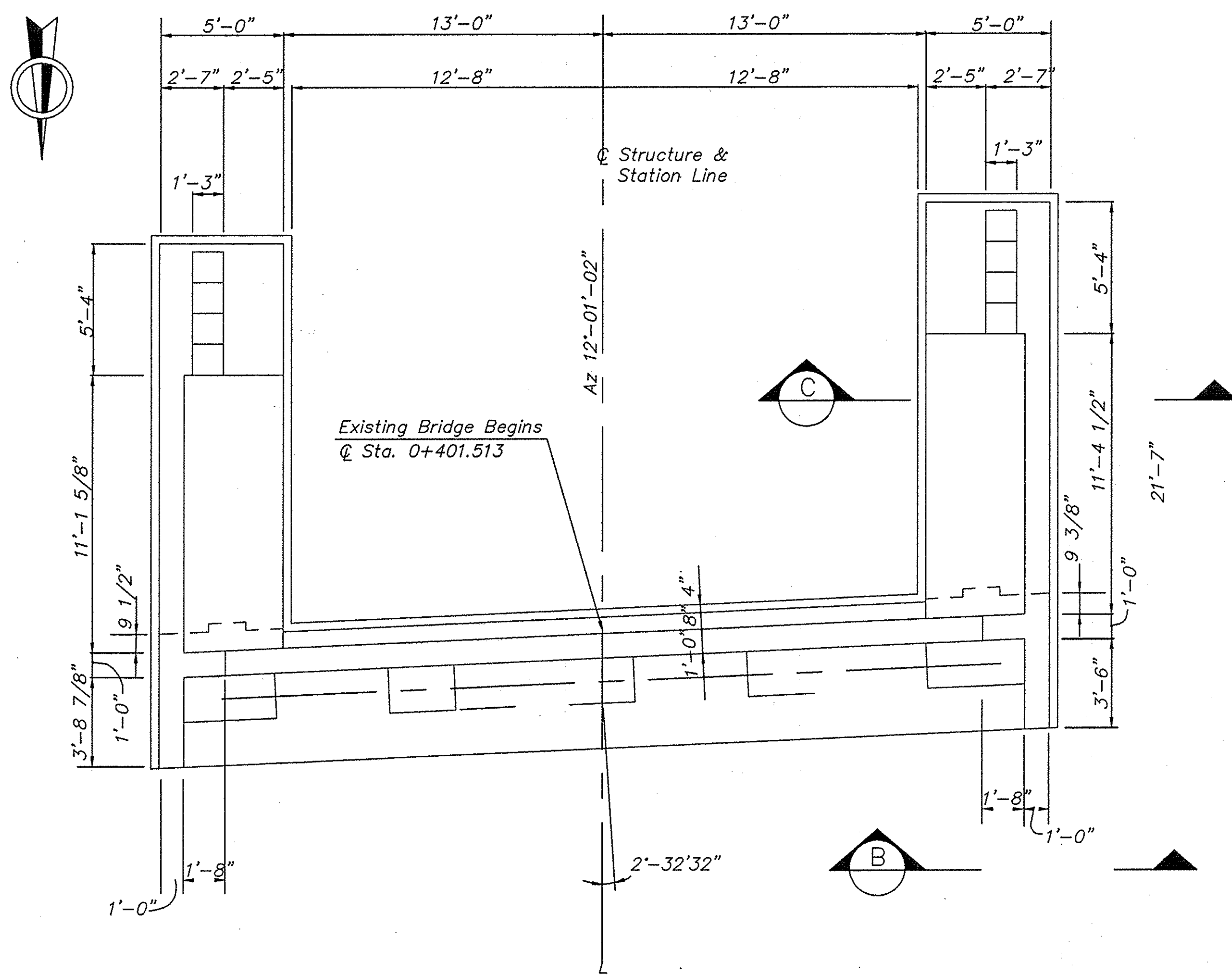


CONTRACT NUMBER:	TAS 98-8B
DATE:	3/98
DRAWING NUMBER:	E5

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

IN CHARGE OF: *Paula A. Adams*
DESIGNED BY:
CHECKED BY:
DRAFTED BY:
LEGEND: MP324.16 SECTIONS

DESIGNED BY: *Paul A. Adinolfi*
 IN CHARGE OF: *Paul A. Adinolfi*
 DRAFTED BY: *[Signature]*
 CHECKED BY: *[Signature]*
 F:\BRIDGES\32416\ABUTMENT



NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH UNITS.
 ALL ELEVATIONS ARE SHOWN IN METERS.

NOAS-BUILT REVISIONS

12/10	KUP		
DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
 5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
 MP 324.16
 NINE FOOT ROAD

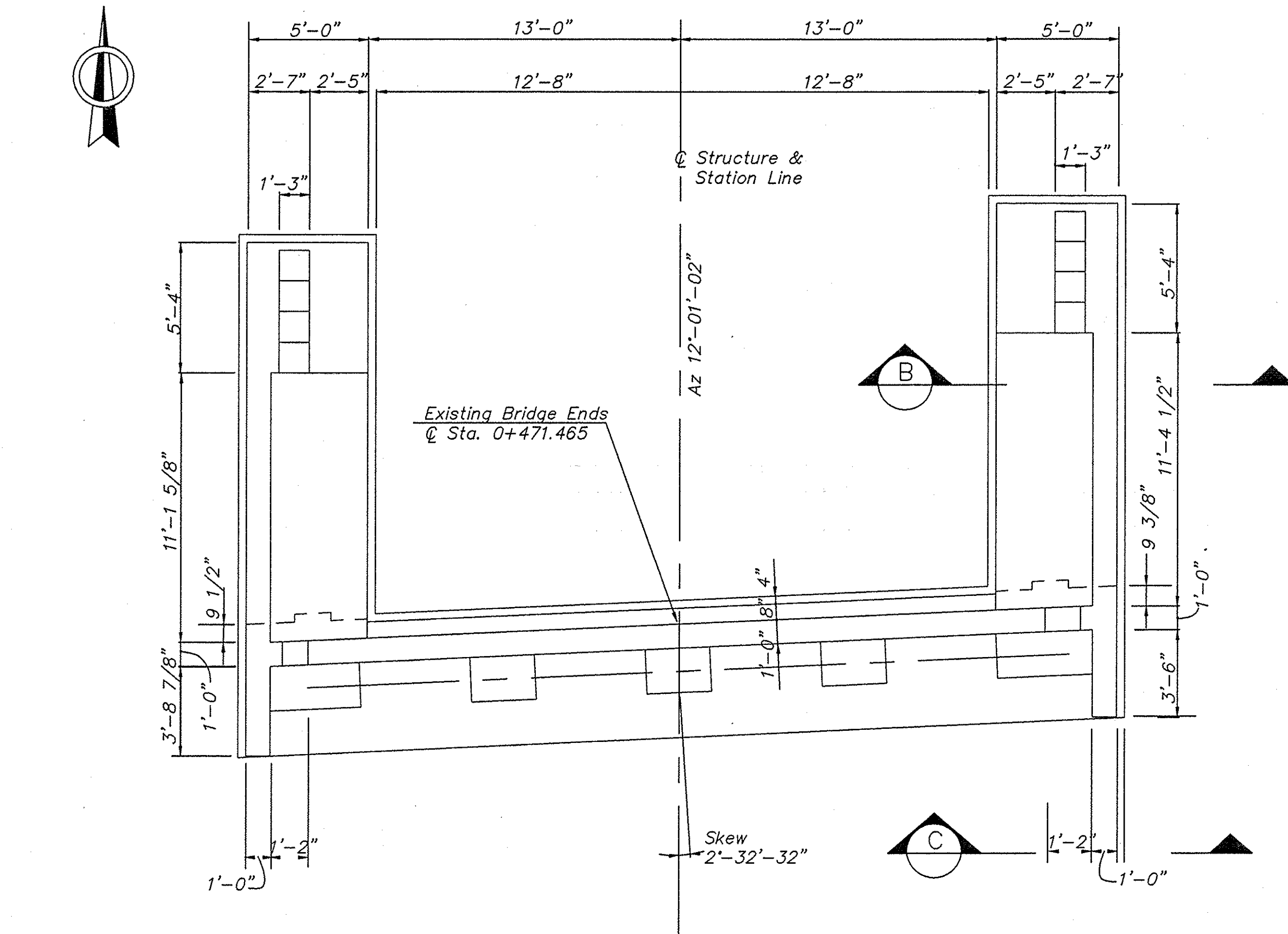
TITLE OF DRAWING
 EXISTING SOUTH ABUTMENT
 REMOVAL DETAILS



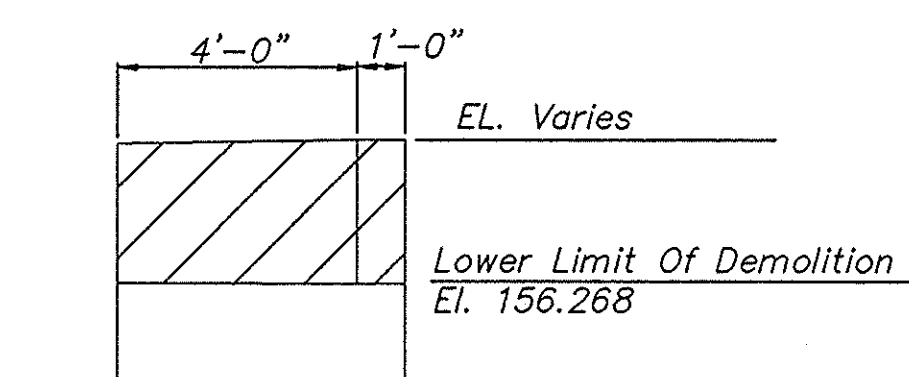
CONTRACT NUMBER:
 TAS 98-8B

DATE:
 3/98

DRAWING NUMBER:
 E6

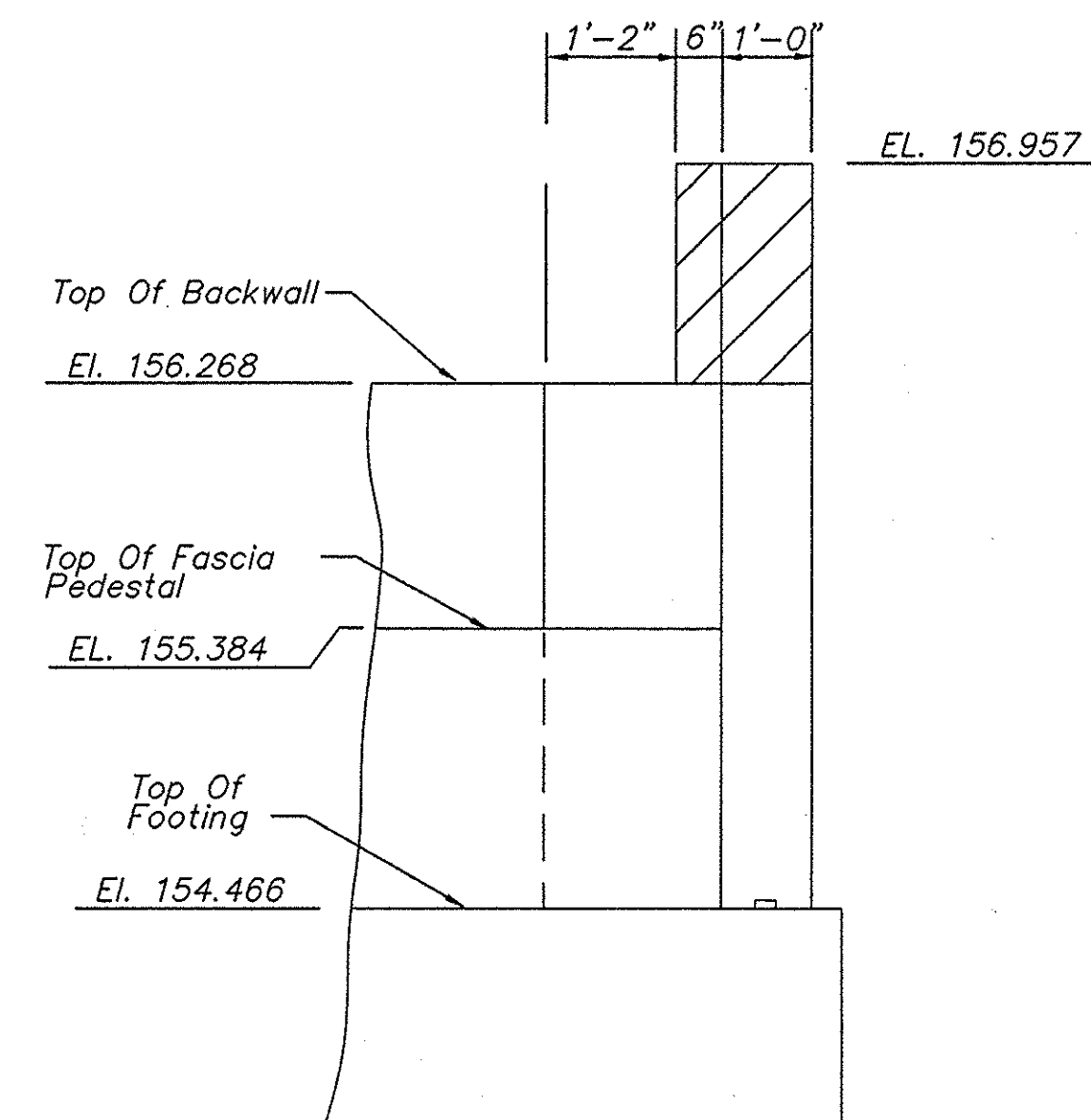



PLAN
SCALE: $1/4" = 1'-0"$

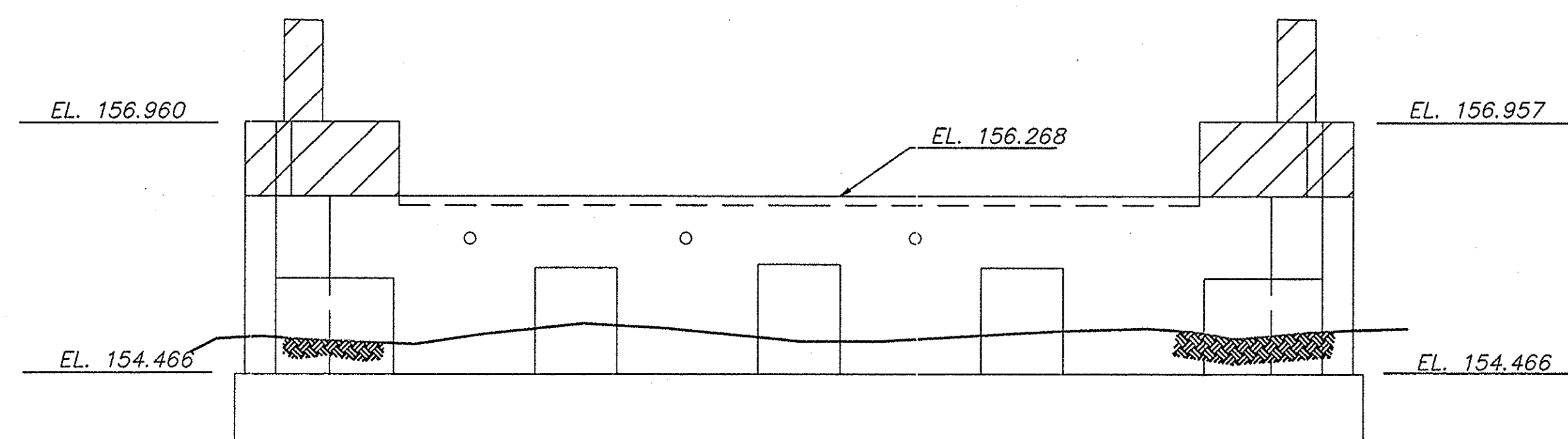


SECTION 
NTS

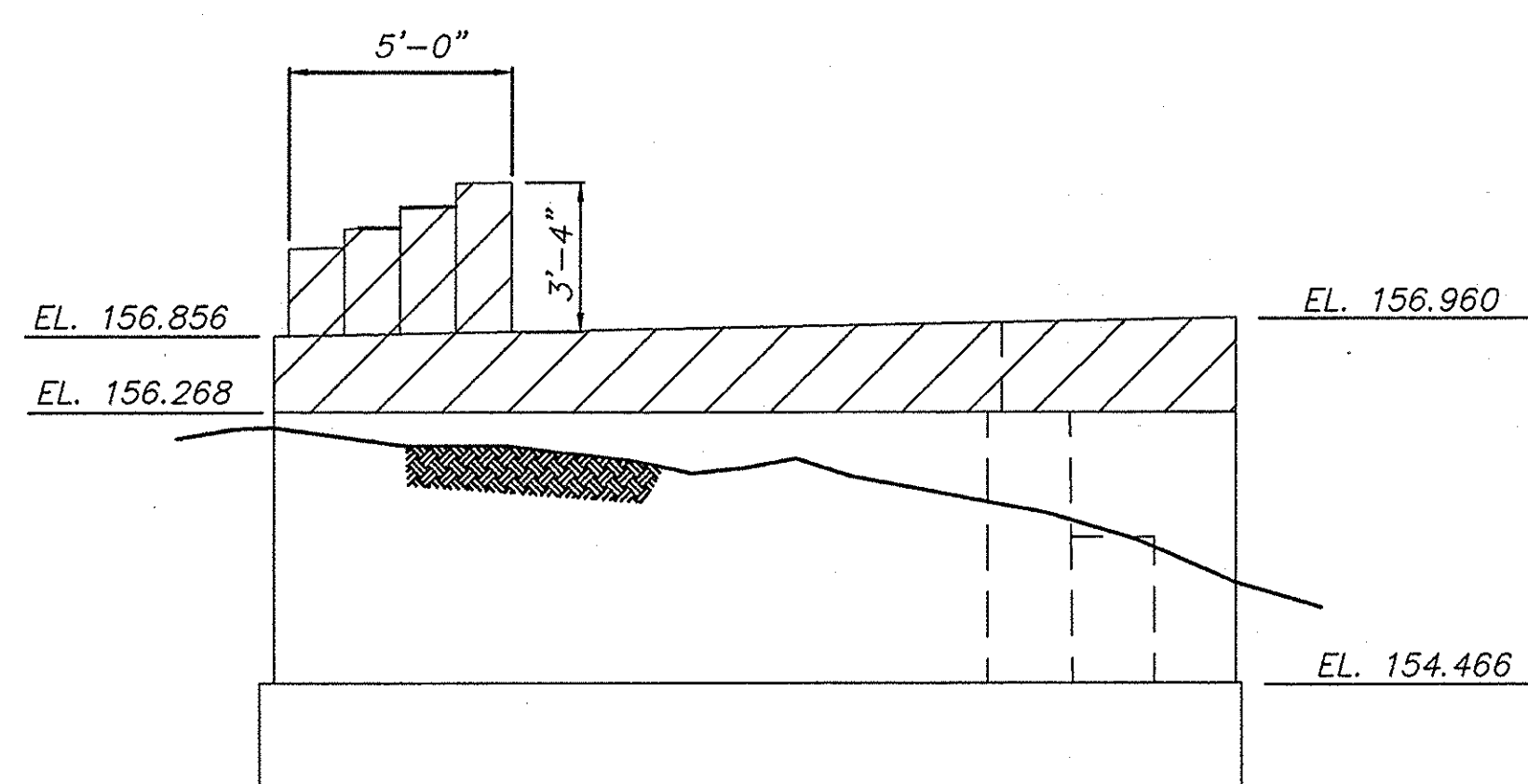
- PARTIAL REMOVAL OF ABUTMENT PAID UNDER
ITEM 202.19 - "REMOVAL OF SUBSTRUCTURES".



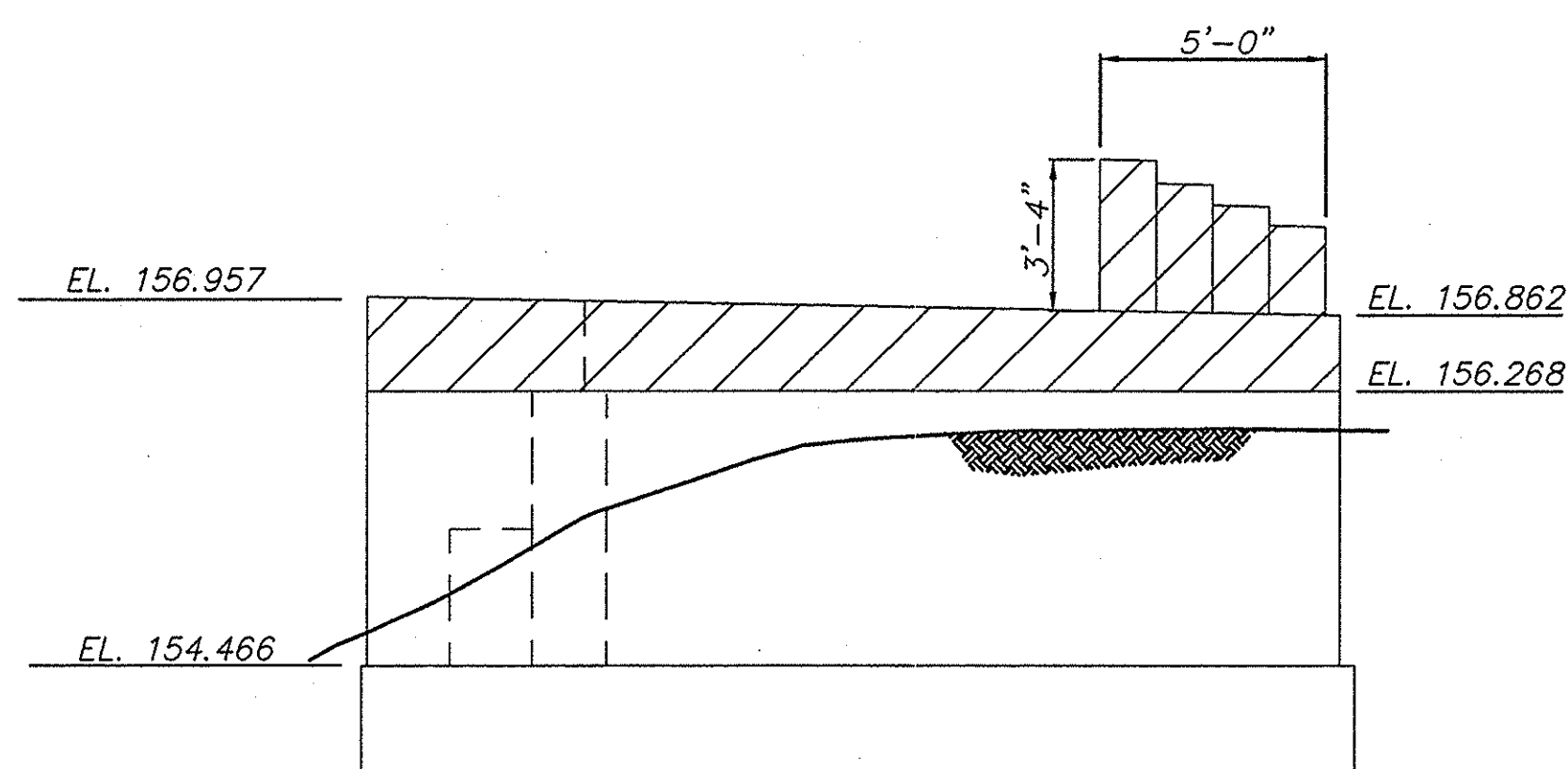
SECTION 
Scale: 1/2" = 1'-0"



ELEVATION
Scale: $1/4" = 1'-0"$




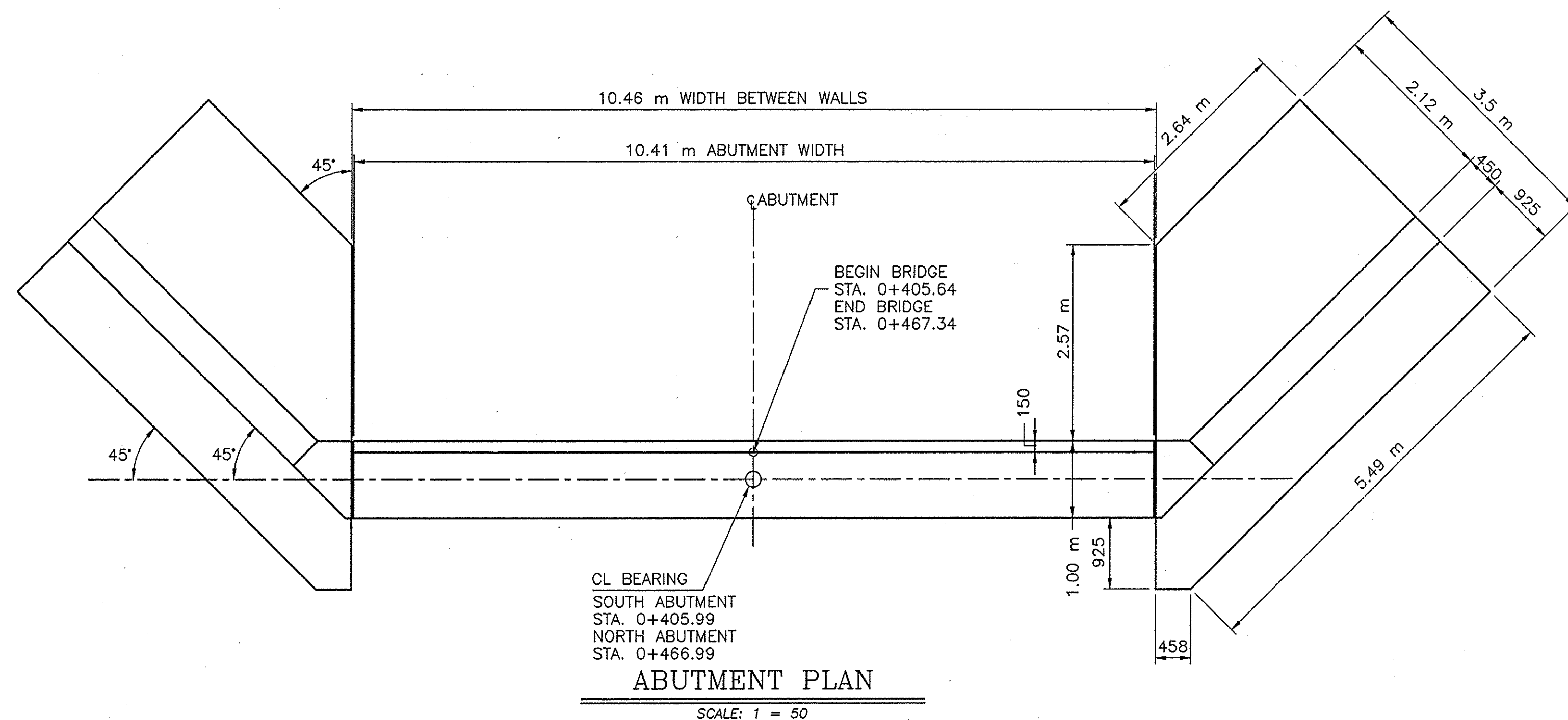
WEST WINGWALL ELEVATION
Scale: $1/4" = 1'-0"$



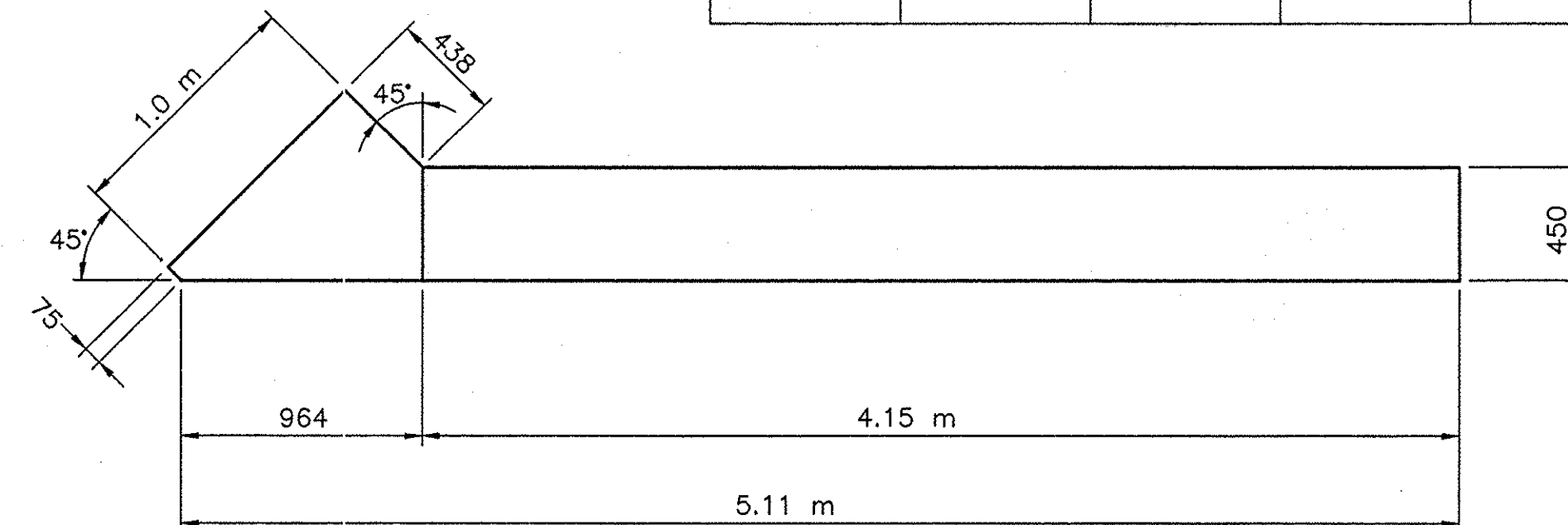
EAST WINGWALL ELEVATION
Scale: $1/4" = 1'-0"$

NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH UNITS.
ALL ELEVATIONS ARE SHOWN IN METERS.

NOAS-BUILT REVISIONS			
1/24/80	scrip		
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT			
5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT			
MP 324.16 NINE FOOT ROAD			
TITLE OF DRAWING			
EXISTING NORTH ABUTMENT REMOVAL DETAILS			
		CONTRACT NUMBER: TAS 98-8B	
		DATE: 3/98	
		DRAWING NUMBER: E7	



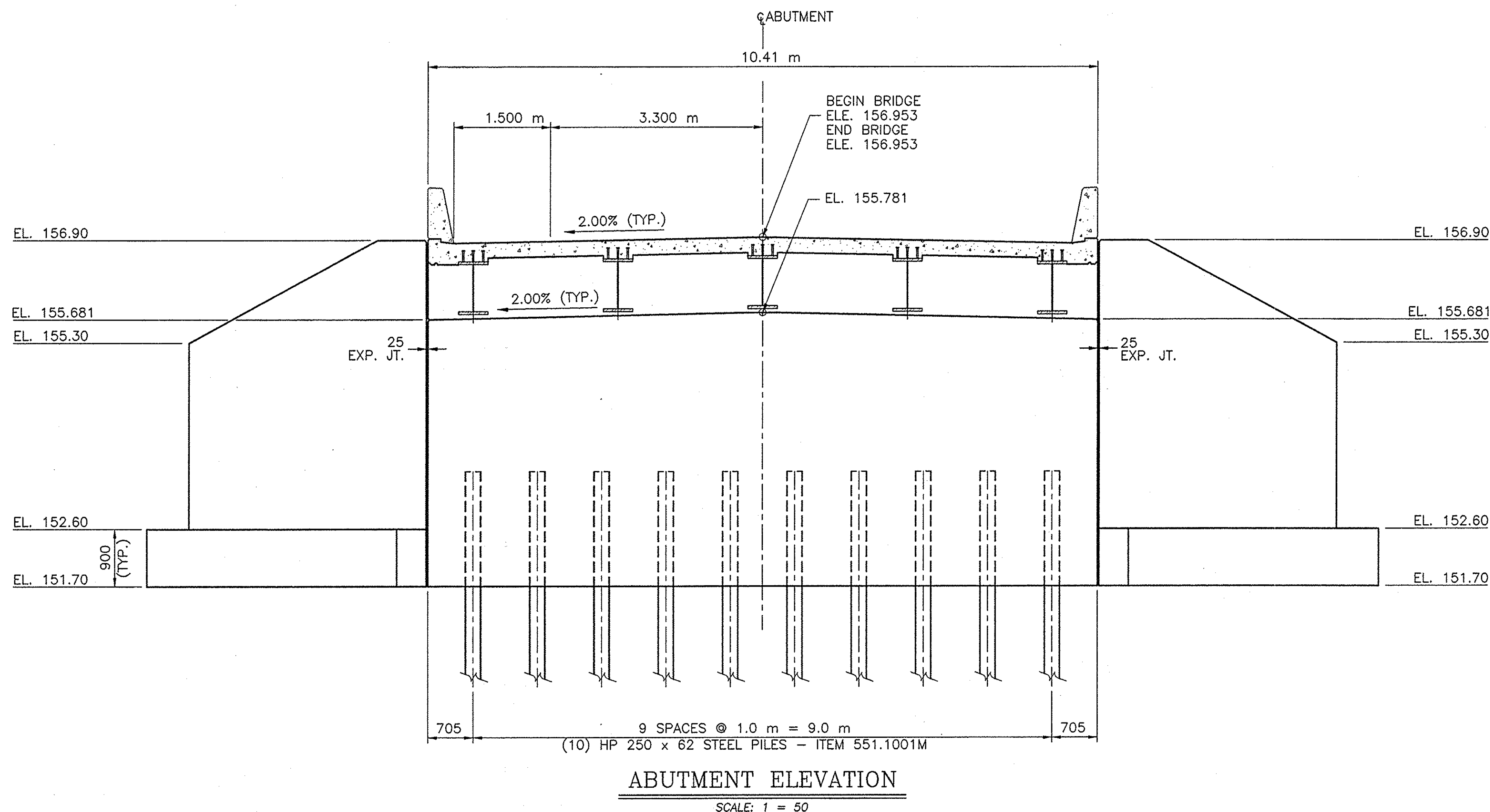
MORTAR PAD ELEVATIONS				
G1	G2	G3	G4	G5
155.759	155.804	155.849	155.804	155.759



FOUNDATION NOTES CONT.

- IF ANY PORTIONS OF THE ABANDONED EXISTING SUBSTRUCTURES ARE WITHIN A 1.0 METER LATERAL LIMIT OF THE PROPOSED FOOTINGS, THEY SHALL BE COMPLETELY REMOVED IN THIS AREA. THE PORTION OF THE ABANDONED EXISTING SUBSTRUCTURES WHICH ARE BEYOND THIS LATERAL LIMIT SHALL BE REMOVED TO A DEPTH OF 600 mm LOWER THAN THE PROPOSED ROADWAY SUBGRADE OR 300 mm BELOW THE FINISHED GROUND LINE. BACKFILL OF THESE EXCAVATIONS SHALL BE WITH AN APPROPRIATE BACKFILL MATERIAL.
- THE PILES AT EACH INTEGRAL ABUTMENT SHALL BE INSERTED IN PREAUGERED 500 MILLIMETER DIAMETER HOLES THAT EXTEND 2.4 METERS BELOW THE BOTTOM OF EACH ABUTMENT STEM. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP EACH OF THESE HOLES OPEN DURING THE INSTALLATION OF THE PILES SO THAT CUSHION SAND CAN BE PLACED LOOSELY AROUND EACH PILE FOR THE FULL DEPTH OF THE PREAUGERED HOLE. THE COST OF AUGERING THESE HOLES, CASING, AND CUSHION SAND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PILE ITEM.
- THE USE OF MECHANICAL PILE SPLICES MAY BE ALLOWED ON THIS STRUCTURE CONTINGENT ON THE FOLLOWING REQUIREMENTS:
 - A SEAL WELD SHALL BE PLACED COMPLETELY AROUND THE TOP AND BOTTOM OF THE SPlicer SLEEVE.
 - NO SPlicer SLEEVES SHALL BE USED WITHIN 9.0 METERS OF THE PILE TIP.
 - USE OF MECHANICAL PILE SPLICES SHALL BE AVOIDED WITHIN 1.6 METERS OF THE CUT-OFF ELEVATION. WHEN THE LENGTH OF THE PILE IS KNOWN PRIOR TO DRIVING, THIS REQUIREMENT SHALL BE STRICTLY OBSERVED.
- THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF BOULDERS IN THE AREA TO BE EXCAVATED OR RETAINED DURING CONSTRUCTION AT THE ABUTMENTS AND PIERS. THE CONTRACTOR SHALL GOVERN HIS OPERATIONS AND PROCEDURES ACCORDINGLY, WITHIN THE APPROPRIATE SPECIFICATION ITEMS, INCLUDING THE SELECTION AND POSSIBLE USE OF SHEETING WITH SUFFICIENT SIZE AND SECTION TO WITHSTAND THE EXPECTED HARD DRIVING.
- THE FOOTING FOR THE WINGWALLS IS DESIGNED TO EXERT A MAXIMUM FOUNDATION PRESSURE OF 207 KPa.
- THE CONCRETE USED SHALL BE CLASS HP - ITEM 25555.0101M.

NOTE:
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED. ALL ELEVATIONS
ARE SHOWN IN METERS



NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

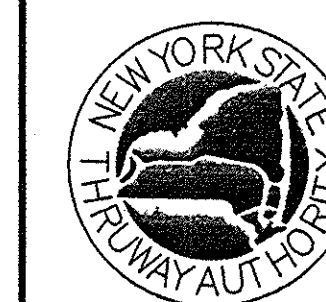
REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 324.16
NINE FOOT ROAD

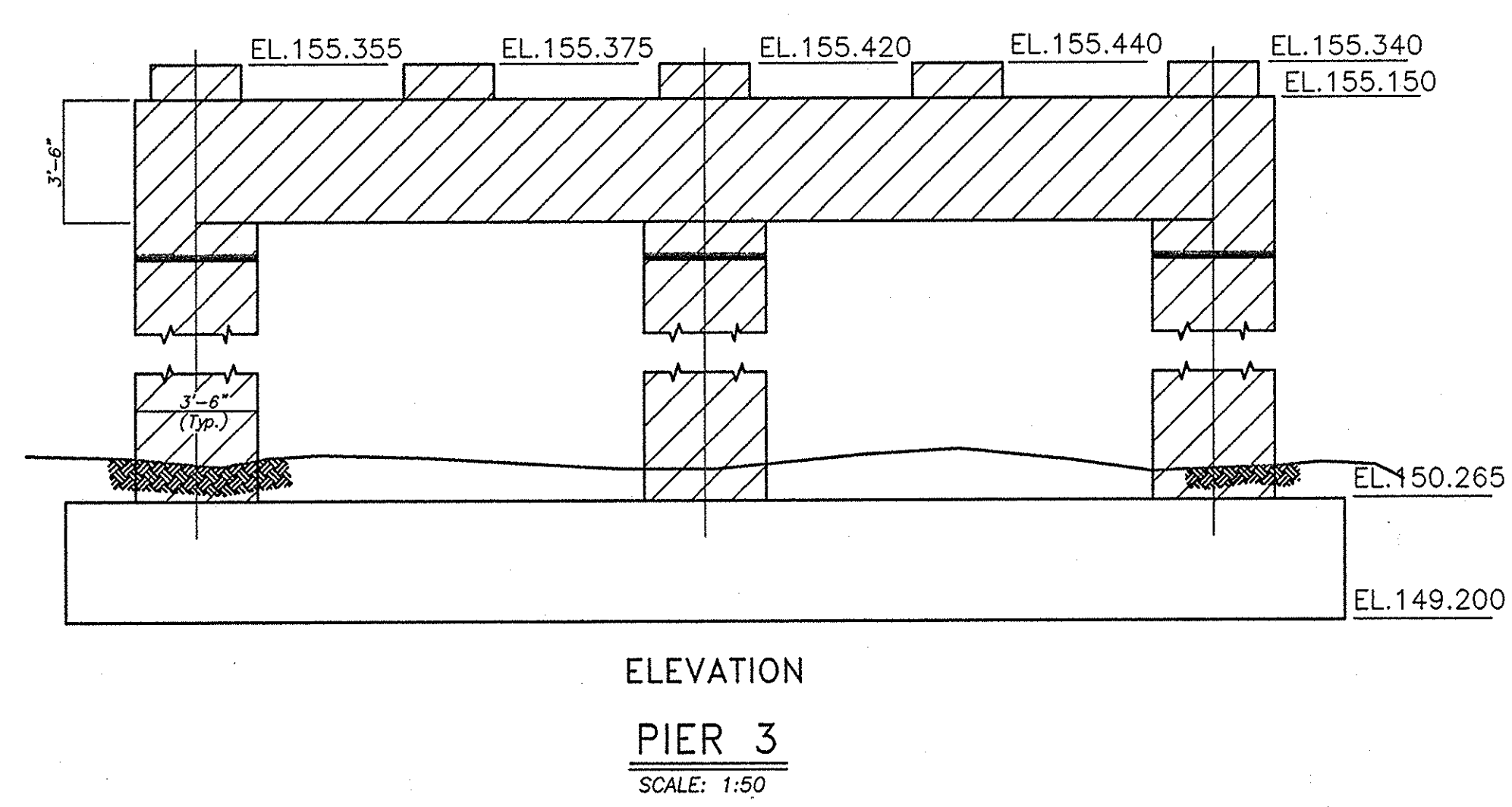
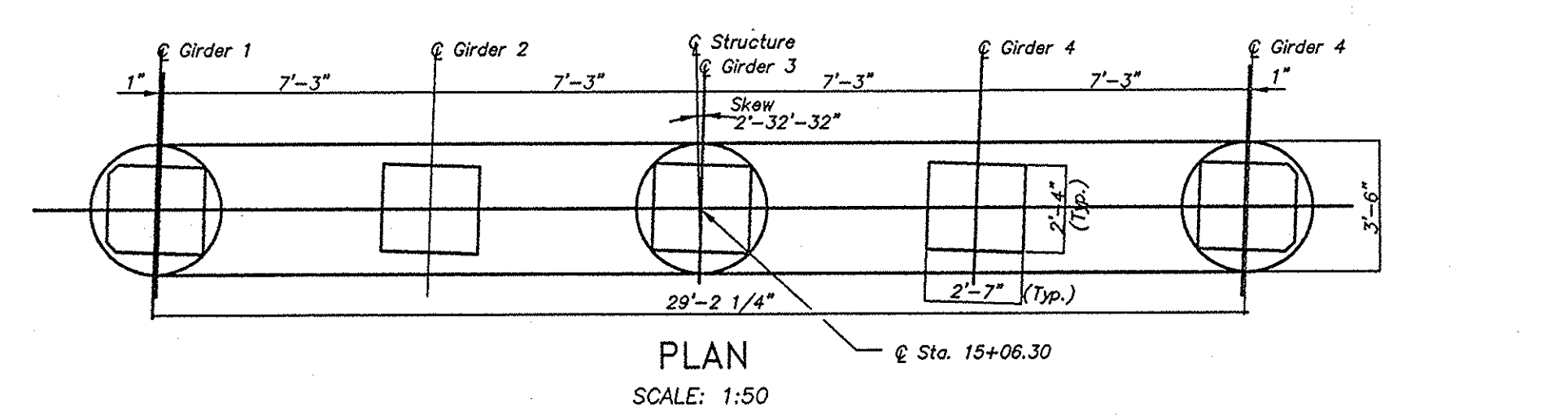
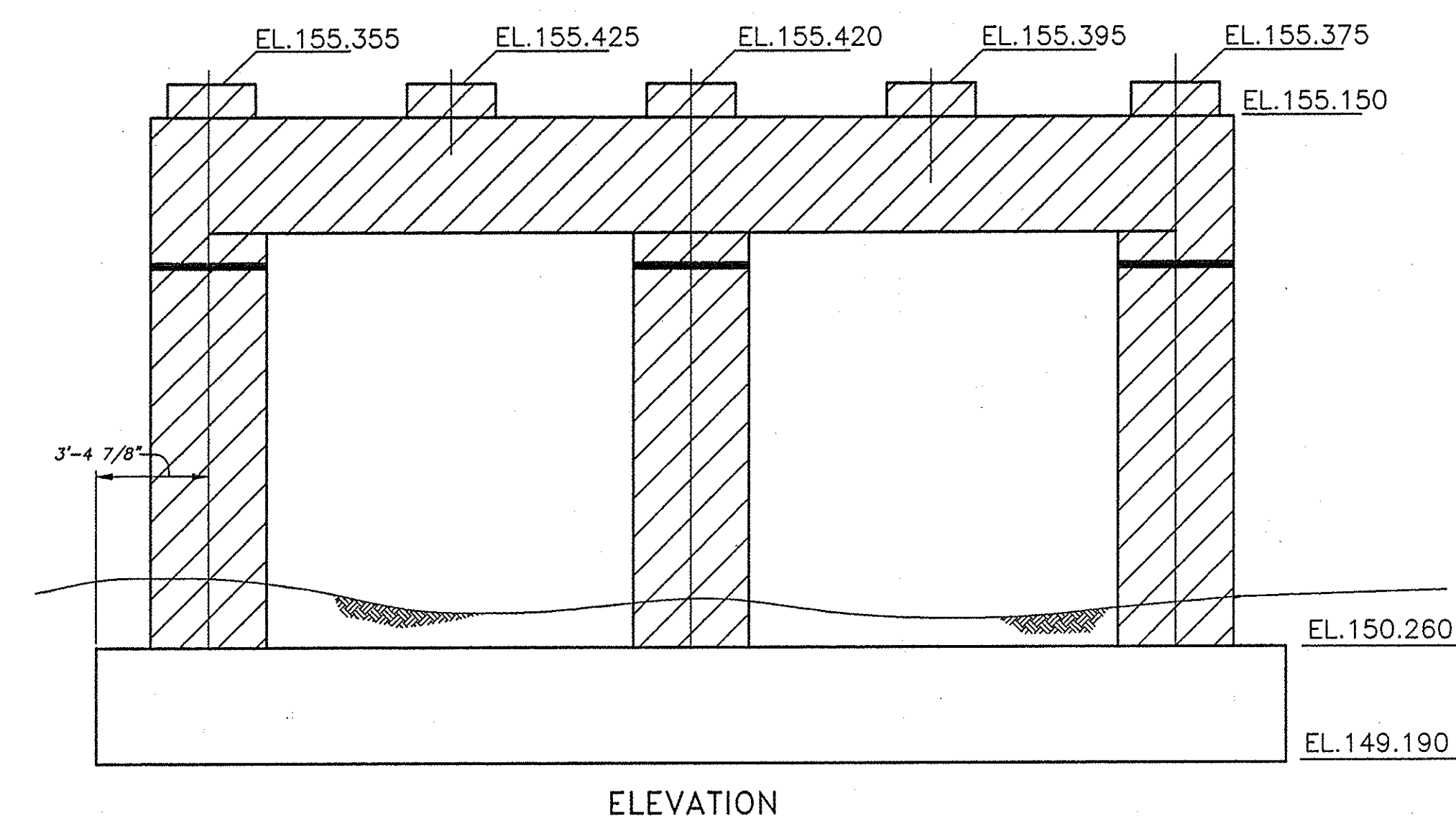
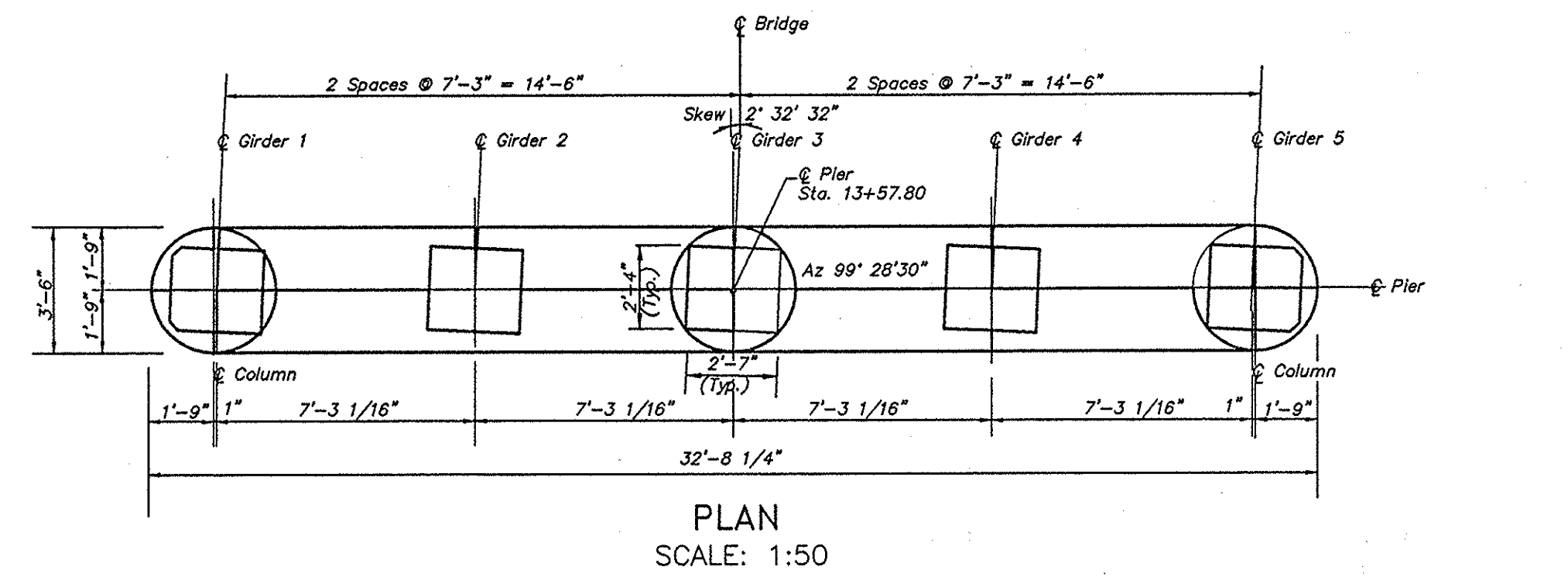
TITLE OF DRAWING
PROPOSED
ABUTMENT PLAN
AND ELEVATION



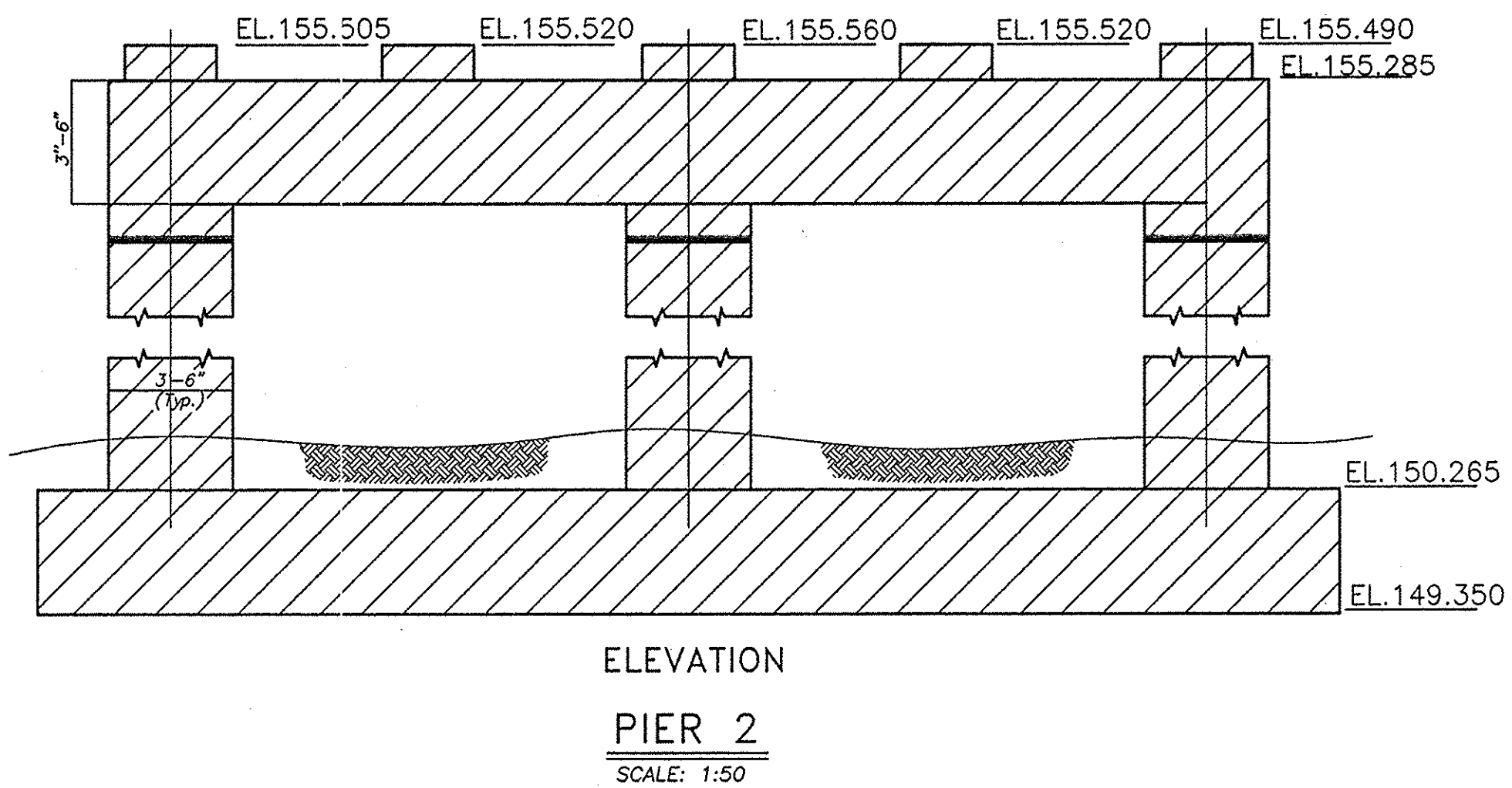
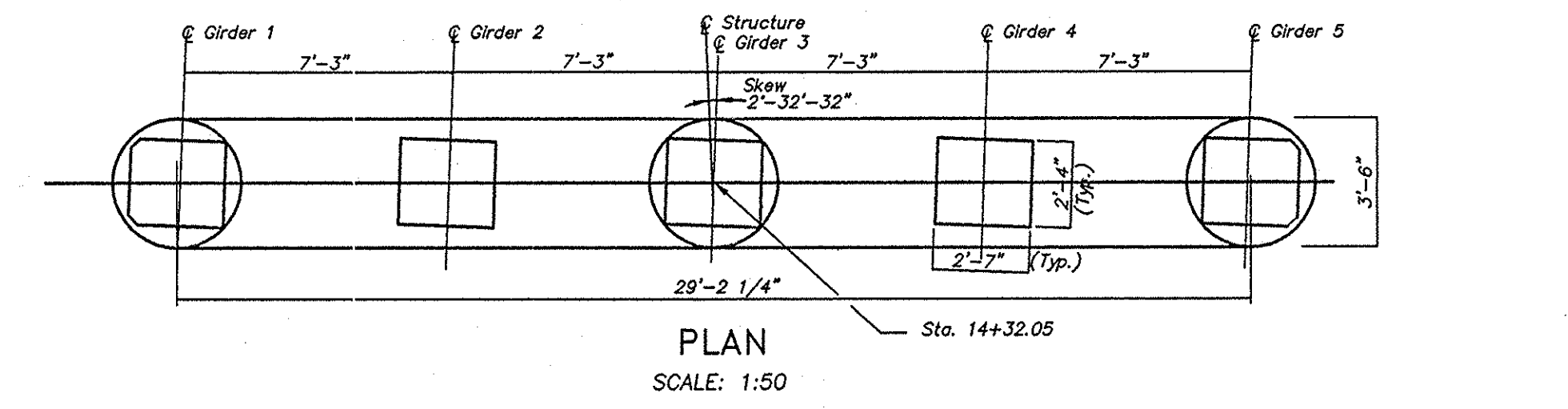
CONTRACT NUMBER:
TAS 98-8B

DATE:
4/98

DRAWING NUMBER:
E8



- SUBSTRUCTURE REMOVAL UNDER ITEM 202.19M
"REMOVAL OF SUBSTRUCTURES".



NOAS-BUILT REVISIONS

12/4/00	KuP		
DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
M.P. 324.16
NINE FOOT ROAD

TITLE OF DRAWING
EXISTING PIER
REMOVAL DETAILS

CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
E9

NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH UNITS.
ALL ELEVATIONS ARE SHOWN IN METERS.

IN CHARGE OF: *Richard A. DiStefano*
DESIGNED BY: *[Signature]*
DRAFTED BY: *[Signature]*
CHECKED BY: *[Signature]*
F:\BRIDGES\32416\PIEREM

	CONTRACT NUMBER: TAS 98-8B
	DATE: 3/98
	DRAWING NUMBER: E10

DESIGNED BY: *[Signature]* IN CHARGE OF: *[Signature]* DRAFTED BY: *[Signature]* CHECKED BY: *[Signature]* REVISIONS: 324.16 REBARS

MARK	SIZE	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H ₁	H ₂	J	K ₁	K ₂	L	O	R	REMARKS
DECK																					
13SG01	13	308	10.56 m	1	3233	150	10.26 m					150			100						TOP TRANSVERSE
13SG02	13	306	10.26	STR	3121																BOTTOM TRANSVERSE
13SG03	13	614	1.30 m	1	793	150	1.15 m								100						TOP TRANSVERSE OVERHANG
13SG04	13	102	9.41 m	1	954	150	9.26 m								100						TOP LONGITUDINAL ENDS
13SG05	13	104	9.26 m	STR	957																BOTTOM LONGITUDINAL ENDS
13SG06	13	515	9.26 m	STR	4740																TOP AND BOTTOM LONGITUDINAL
16SG07	16	614	1.05 m	17	1001		250	800													DECK INTO BACK OF BARRIER
16SG08	16	614	9.20	19	877		250	670				247			42						DECK INTO FRONT OF BARRIER
16SG09	16	100	6.67 m	STR	1035																TOP LONGITUDINAL (TENSION ZONE)
16SG10	16	3	10.26 m	STR	48																HORIZONTAL FRONT STEM CAP
16SG11	16	12	2.1 m	STR	39																HORIZONTAL BACK STEM CAP
16SG12	16	25	1.72 m	17	67		450	820	450												TOP OF STEM CAP
16SG13	16	25	1.05 m	19	41		350	700				250			250						FRONT FACE STEM CAP INTO DECK
16SG14	16	6	2.41 m	17	22		530	780	1.1 m												HORIZONTAL AROUND ENDS OF STEM CAP
16SG15	16	4	1.88 m	S11	12							900							140		DECK INTO BARRIER TRANSITION
16SG16	16	4	1.24 m	14	8	300	300	640				212			212						DECK INTO BARRIER TRANSITION (FRONT)
19SG17	19	35	3.2 m	14	250	650	450	2.1 m				320			320						BACK FACE STEM CAP INTO DECK
19SG18	19	35	1.55 m	17	121		800	750													MIDDLE STEM CAP INTO DECK
19SG19	19	8	10.26 m	STR	183																HORIZONTAL THROUGH GIRDER WEBS
19SG20	19	35	3.4 m	1	266	200	3.0 m					200			150						DECK END INTO APPROACH SLAB
22SG21	22	50	12.0 m	STR	1825																TOP LONGITUDINAL OVER PIER
subtotal = 19 593 kg																					
SOUTH APPROACH SLAB																					
16AP001	16	5	10.26 m	STR	80																TRANSVERSE TOP
16AP002	16	5	10.62 m	1	82	180	10.26 m					180			130						TRANSVERSE BOTTOM
16AP003	16	2	2.22 m	19	7		1.0 m	1.22 m				707			707						LONGITUDINAL FASCIA
16AP004	16	2	2.22 m	19	7		1.0 m	1.22 m				707			707						LONGITUDINAL FASCIA
16AP005	16	12	9.45 m	STR	176																TRANSVERSE TOP
16AP006	16	14	9.81 m	1	213	180	9.45 m					180			130						TRANSVERSE BOTTOM
16AP007	16	32	4.85 m	STR	241																LONGITUDINAL TOP
16AP008	16	8	1.88 m	S11	23							900							140		APPR. SLAB INTO BARRIER TRANSITION
16AP009	16	8	1.24 m	14	15	300	300	640				212			212						APPR. SLAB INTO BAR. TRANS. (FRONT)
16AP010	16	4	1.71 m	1	11	180	1.35 m					180			130						LONGITUDINAL TOP & BOTTOM
22AP011	22	60	5.35 m	1	976	250	4.85 m					250			180						LONGITUDINAL BOTTOM
subtotal = 1831 kg																					
NORTH APPROACH SLAB																					
16AP001	16	5	10.26 m	STR	80																TRANSVERSE TOP
16AP002	16	5	10.62 m	1	82	180	10.26 m					180			130						TRANSVERSE BOTTOM
16AP003	16	2	2.22 m	19	7		1.0 m	1.22 m				707			707						LONGITUDINAL FASCIA
16AP004	16	2	2.22 m	19	7		1.0 m	1.22 m				707			707						LONGITUDINAL FASCIA
16AP005	16	12	9.45 m	STR	176																TRANSVERSE TOP
16AP006	16	14	9.81 m	1	213	180	9.45 m					180			130						TRANSVERSE BOTTOM
16AP007	16	32	4.85 m	STR	241																LONGITUDINAL TOP
16AP008	16	8	1.88 m	S11	23							900							140		APPR. SLAB INTO BARRIER TRANSITION
16AP009	16	8	1.24 m	14	15	300	300	640				212			212						APPR. SLAB INTO BAR. TRANS. (FRONT)
16AP010	16	4	1.71 m	1	11	180	1.35 m					180			130						LONGITUDINAL TOP & BOTTOM
22AP011	22	60	5.35 m	1	976	250	4.85 m					250			180						LONGITUDINAL BOTTOM
subtotal = 1831 kg																					
Superstructure Total = 23 255 kg																					

MARK	SIZE	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H ₁	H ₂	J	K ₁	K ₂	L	O	R	REMARKS
MEDIAN PIER (M.P. 324.16)																					
FOOTING																					
13PG01	13	127	1044	T9	132	160	774					110	110								FRONT TO BACK TIES
13PG02	13	24	900	N18	22	160	580					160	110								TOP TO BOTTOM TIES
16PG03	16	12	8.05mAVG	14	150	6.6mAVG	200	500	200	550			150	150		150	150		800		HORIZ. STEM BASE(2 OF EACH LENGTH)
A VARIES FROM 6.5 m TO 6.7 m.																					
19PG04	19	12	6.34 m	19	170		300	6.04 m					290			-75					VERTICAL STEM ENDS
25PG05	25	128	3.41 m	1	1734	280	2.85 m					280			200						TOP & BOTTOM TRANSVERSE
25PG06	25	42	9.41 m	1	1570	280	8.85 m					280			200						TOP & BOTTOM LONGITUDINAL
36PG07	36	106	6.46 m	2	5414	610	5.85 m														VERTICAL FOOTING INTO STEM
subtotal = 9192 kg																					
STEM																					
13PG01	13	791	1044	T9	821	160	774					110	110								FRONT TO BACK TIES
16PG08	16	26	8.53mAVG	14	344	7.1mAVG	200	500	200	550			150	150		150	150		800		HORIZ. STEM BOTTOM(2 OF EACH LENGTH)
16PG09	16	36	10.05mAVG	14	562	8.6mAVG	200	500	200	550			150	150		150	150		800		HORIZ. STEMMIDTOP(2 OF EACH LENGTH)
A VARIES FROM 7.45 m TO 9.75 m.																					
16PG10	16	36	1.72 m	17	96		480	760	480												STEM INTO PEDESTAL ANCHORAGE
25PG11	25	6	11.15 m	N16	266		550	183	9.68 m	183	550		527	527		142	142		9.90 m	100	TOP OF STEM
25PG12	25	35	1.58 m	2	220	410		760				410									TOP OF STEM
subtotal = 2309 kg																					
PEDESTALS																					
16PG13	16	2	5.00 m	T1	16	200	1.50 m	800	1.50 m	800		200	140								FASCIA PEDESTAL
16PG14	16	3	6.20 m	T1	29	200	2.10 m	800	2.10 m	800		200	140								INTERIOR PEDESTAL
subtotal = 45 kg																					
TOTAL MEDIAN PIER = 11 546 kg																					

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT MP 324.16 NINE FOOT ROAD			
TITLE OF DRAWING REINFORCING STEEL SCHEDULE (

IN CHARGE OF: *Paul A. Arden*
DESIGNED BY:
DRAFTED BY:
CHECKED BY:
E:\BRIDGES\32416\NEWHAUNCH

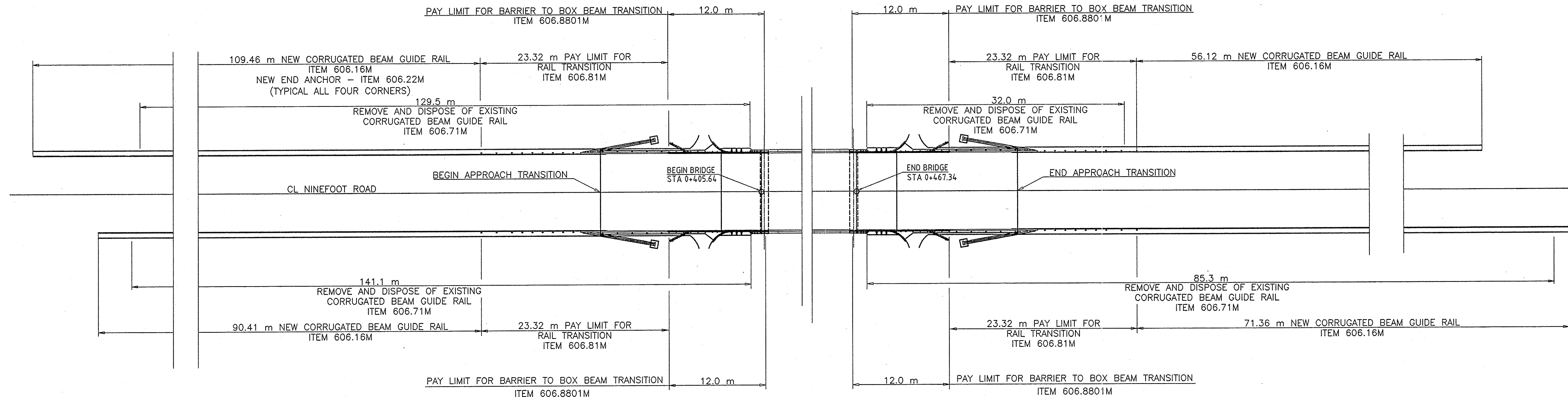
THIS SHEET, 91F1, SUPERSEDES SHEET 91 OF 113.

91F1R
113

HAUNCH TABLE

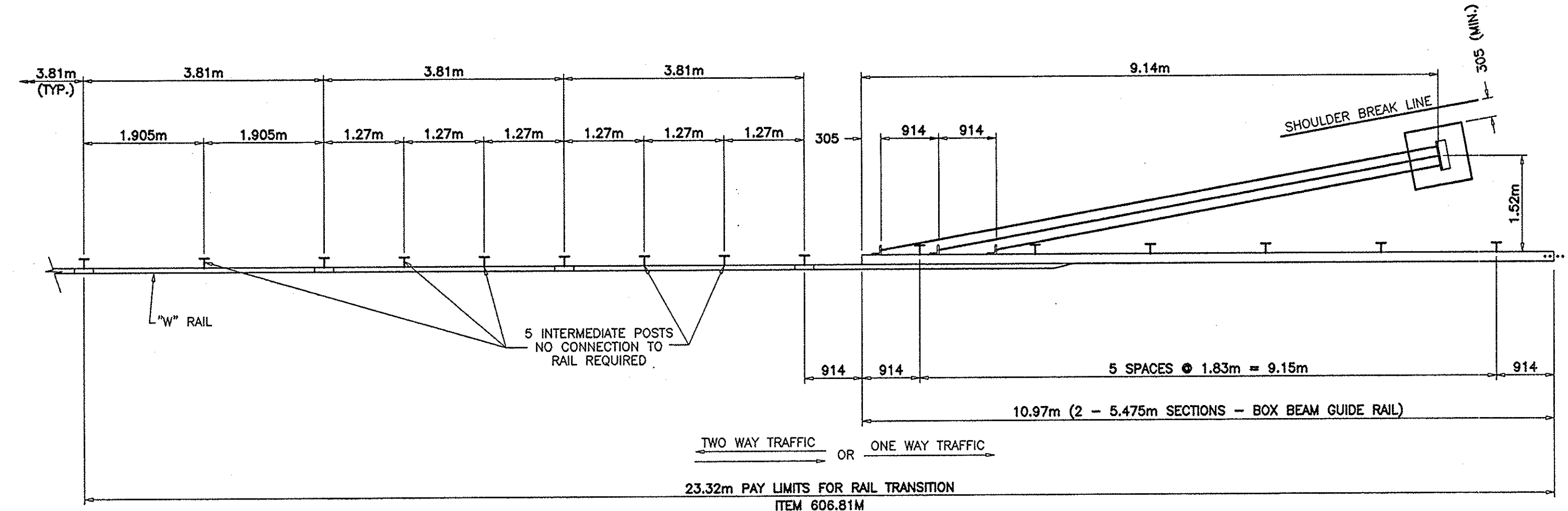
HAUNCH TABLE																							
HAUNCH TABLE		SPAN 1											SPAN 2										
		Q BRGS. SOUTH ABUTMENT	0.1L ₁	0.2L ₁	0.3L ₁	0.4L ₁	0.5L ₁	0.6L ₁	0.7L ₁	0.8L ₁	0.9L	Q BRGS. PIER 1	0.1L	0.2L ₁	0.3L ₁	0.4L ₁	0.5L ₁	0.6L ₁	0.7L ₁	0.8L ₁	0.9L ₁	Q BRGS. NORTH ABUTMENT	
GIRDER 1	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	156.628	156.673	156.712	156.747	156.776	156.800	156.819	156.832	156.841	156.846	156.847	156.846	156.841	156.832	156.819	156.800	156.776	156.747	156.712	156.673	156.628	GIRDER 1
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	156 568	156 642	156 704	156 756	156 793	156 813	156 817	156 813	156 822	156 811	156 805	156 810	156 821	156 823	156 825	156 816	156 785	156 749	156 698	156 639	156 568	
	C = (A) - (B) (m)	060	031	008	- .009	- .017	- .013	.002	019	019	035	042	036	020	009	- .006	- .016	- .009	- .002	014	034	060	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	060	053	049	.044	.041	.043	.046	051	036	040	042	041	037	041	040	040	049	051	055	056	060	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	156.628	156.670	156.707	156.740	156.768	156.792	156.812	156.827	156.838	156.845	156.847	156.847	156.845	156.838	156.827	156.812	156.792	156.768	156.740	156.707	156.670	
GIRDER 2	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	156.673	156.718	156.757	156.792	156.821	156.845	156.864	156.877	156.886	156.891	156.892	156.891	156.886	156.877	156.864	156.845	156.821	156.792	156.757	156.718	156.673	GIRDER 2
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	156.611	156 682	156 744	156 794	156 821	156 848	156 855	156 853	156 863	156 853	156 851	156 863	156 872	156 871	156 869	156 858	156 834	156 798	156 752	156 690	156 615	
	C = (A) - (B) (m)	062	036	013	- .002	- .010	- .003	.009	004	023	038	041	028	014	006	- .005	- .013	- .013	- .006	005	028	058	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	062	058	054	.051	.048	.053	.055	056	040	043	041	033	031	038	041	043	045	047	046	050	058	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	156.673	156.715	156.752	156.785	156.813	156.837	156.857	156.872	156.883	156.890	156.892	156.892	156.890	156.883	156.872	156.857	156.837	156.813	156.785	156.752	156.715	
GIRDER 3	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	156.718	156.763	156.802	156.837	156.866	156.890	156.909	156.922	156.931	156.936	156.937	156.936	156.931	156.922	156.909	156.890	156.866	156.837	156.802	156.763	156.718	GIRDER 3
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	156.659	156.728	156 792	156 843	156 880	156 901	156 905	156 903	156 912	156 901	156 893	156 896	156 905	156 910	156 918	156 914	156 888	156 855	156 801	156 732	156 656	
	C = (A) - (B) (m)	.059	035	.010	- .006	- .014	- .011	.004	019	019	035	044	040	026	012	- .009	- .024	- .022	- .018	.001	031	062	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	.059	057	.051	.047	.044	.045	.050	051	036	040	044	045	043	044	037	032	036	035	042	053	062	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	156.718	156.760	156.797	156.830	156.858	156.882	156.902	156.917	156.928	156.935	156.937	156.937	156.935	156.928	156.917	156.902	156.882	156.858	156.830	156.797	156.760	
GIRDER 4	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	156.673	156.718	156.757	156.792	156.821	156.845	156.864	156.877	156.886	156.891	156.892	156.891	156.886	156.877	156.864	156.845	156.821	156.792	156.757	156.718	156.673	GIRDER 4
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	156.615	156 694	156 759	156 810	156 847	156 865	156 867	156 860	156 866	156 855	156 853	156 863	156 873	156 876	156 875	156 866	156 843	156 807	156 753	156 685	156 610	
	C = (A) - (B) (m)	058	024	- .002	- .018	- .026	- .020	- .003	017	020	036	039	028	013	001	- .011	- .021	- .022	- .019	- .001	033	063	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	058	046	039	035	032	036	043	049	037	041	039	033	030	033	035	035	036	034	040	055	063	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	156.673	156.715	156.752	156.785	156.813	156.837	156.857	156.872	156.883	156.890	156.892	156.892	156.890	156.883	156.872	156.857	156.837	156.813	156.785	156.752	156.715	
GIRDER 5	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	156.628	156.673	156.712	156.747	156.776	156.800	156.819	156.832	156.841	156.846	156.847	156.846	156.841	156.832	156.819	156.800	156.776	156.747	156.712	156.673	156.628	GIRDER 5
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	156 573	156 649	156 710	156 758	156 795	156 818	156 825	156 821	156 823	156 807	156 803	156 817	156 833	156 834	156 836	156 828	156 803	156 768	156 713	156 645	156 566	
	C = (A) - (B) (m)	055	024	002	- .011	- .019	- .018	- .006	011	018	039	044	029	008	- .002	- .017	- .028	- .027	- .021	- .001	028	062	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	055	046	043	042	039	038	040	043	035	044	044	034	025	030	029	028	031	032	040	050	062	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	156.628	156.670	156.707	156.740	156.768	156.792	156.812	156.827	156.838	156.845	156.847	156.847	156.845	156.838	156.827	156.812	156.792	156.768	156.740	156.707	156.670	
GIRDER 1	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	156.628	156.673	156.712	156.747	156.776	156.800	156.819	156.832	156.841	156.846	156.847	156.846	156.841	156.832	156.819	156.800	156.776	156.747	156.712	156.673	156.628	GIRDER 1
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	156 568	156 642	156 704	156 756	156 793	156 813	156 817	156 813	156 822	156 811	156 805	156 810	156 821	156 823	156 825	156 816	156 785	156 749	156 698	156 639	156 568	
	C = (A) - (B) (m)	060	031	008	- .009	- .017	- .013	.002	019	019	035	042	036	020	009	- .006	- .016	- .009	- .002	014	034	060	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D) (m)	060	053	049	.044	.041	.043	.046	051	036	040	042	041	037	041	040	040	049	051	055	056	060	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	156.628	156.670	156.707	156.740	156.768	156.792	156.812	156.827	156.838	156.845	156.847	156.847	156.845	156.838	156.827	156.812	156.792	156.768	156.740	156.707	156.670	
GIRDER 2	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	156.673	156.718	156.757	156.792	156.821	156.845	156.864	156.877	156.886	156.891	156.892	156.891	156.886	156.877	156.864	156.845	156.821	156.792	156.757	156.718	156.673	GIRDER 2
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	156.611	156 682	156 744	156 794	156 821	156 848	156 855	156 853	156 863	156 853	156 851	156 863	156 872	156 871	156 869	156 858						

IN CHARGE OF: *Richard A. [Signature]*
DESIGNED BY: *[Signature]*
DRAFTED BY: *[Signature]*
CHECKED BY: *[Signature]*
F:\BRIDGES\MP32416\GUIDRAIL



**EXISTING GUIDE RAIL REMOVAL
AND NEW GUIDE RAIL INSTALLATION**
SCALE: 1 : 250

- NOTES
- SEE DRAWINGS C21-C23 FOR BOX BEAM TO BARRIER TRANSITION DETAILS.
 - WINGWALLS NOT SHOWN.



**GUIDE RAIL TRANSITION
CORRUGATED BEAM TO BOX BEAM (ONE OR TWO WAY OPERATION)**
N.T.S.

- NOTES:
- SUBSTITUTE THIS DETAIL FOR THE ONE SHOWN ON STANDARD SHEET 606-15R1 FOR ITEM 606.81M.
 - ON STANDARD SHEET 606-15R1 REVISE THE NOTE IN UPPER RIGHT THIRD OF THIS SHEET TO READ "TYPICAL CABLE ANCHOR, SEE DETAIL 'F' ON THE CURRENT STANDARD SHEET TITLED CABLE GUIDE RAILING. SPRING COMPENSATORS ARE NOT REQUIRED IN THIS TRANSITION. ALSO ADD THE FOLLOWING DIMENSION TO ANGLE IN DETAIL 'C': L178x102x9.5

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.
12/1/00	REVISED		

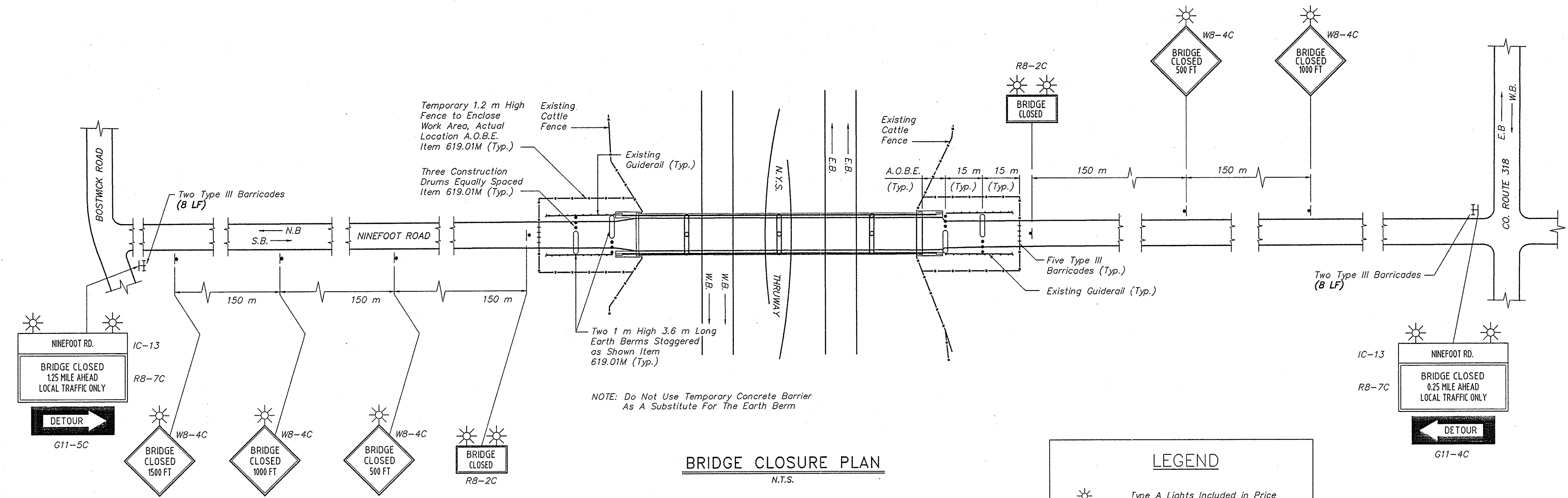
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT MP 324.16 NINE FOOT ROAD			
TITLE OF DRAWING EXISTING AND PROPOSED GUIDE RAIL LAYOUT			



CONTRACT NUMBER: TAS 98-8B
DATE: 3/98
DRAWING NUMBER: E13

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

IN CHARGE OF: *Paul A. ...* DESIGNED BY: *[Signature]* DRAFTED BY: *[Signature]* CHECKED BY: *[Signature]* 55800005 MP 324.16 3241 CLOS



BRIDGE CLOSURE PLAN
N.T.S.

LEGEND

- Type A Lights Included in Price for Item 619.02
- Type B Flashers Included in Price for Item 619.02
- Plastic Drums (Item 619.01)
- Type III Barricade with Type B Flashers (Item 619.0413) and 619.0502
- Signs (Item 619.02)
- 3 Foot High Earth Berm Paid Under Item 619.01
- Main Route of Traffic

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 324.16
NINE FOOT ROAD

TITLE OF DRAWING
BRIDGE CLOSURE PLAN

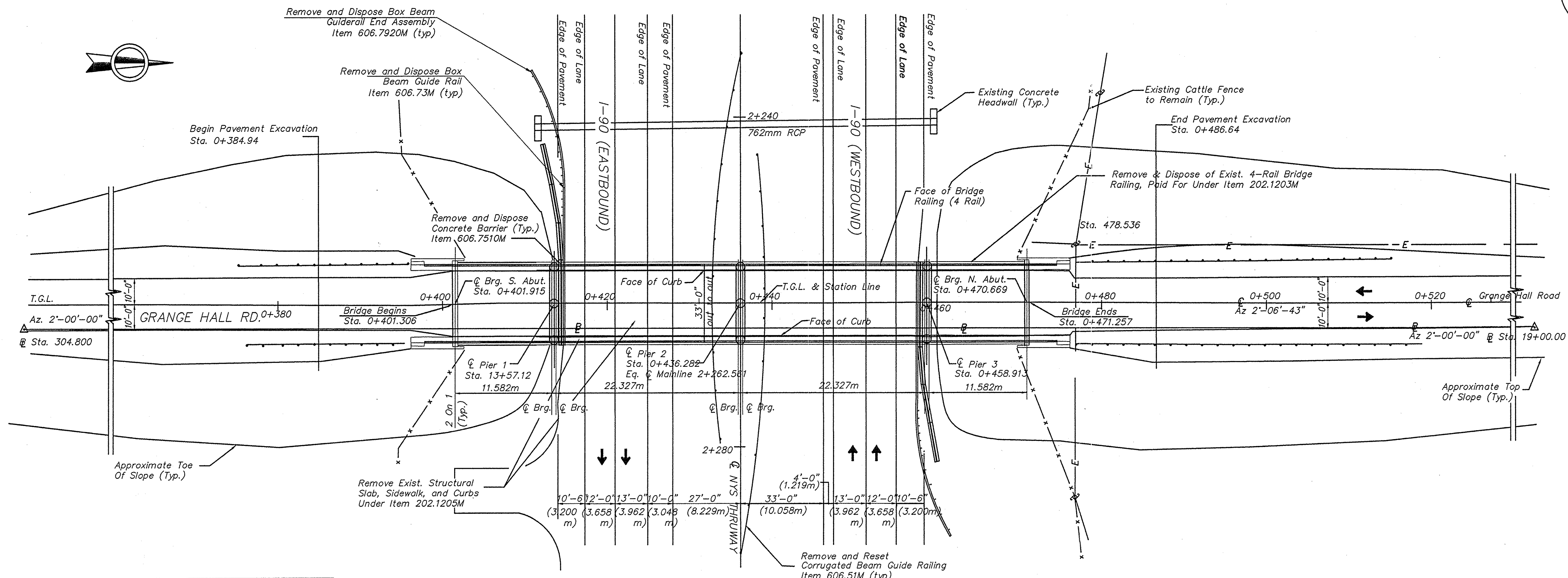


CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

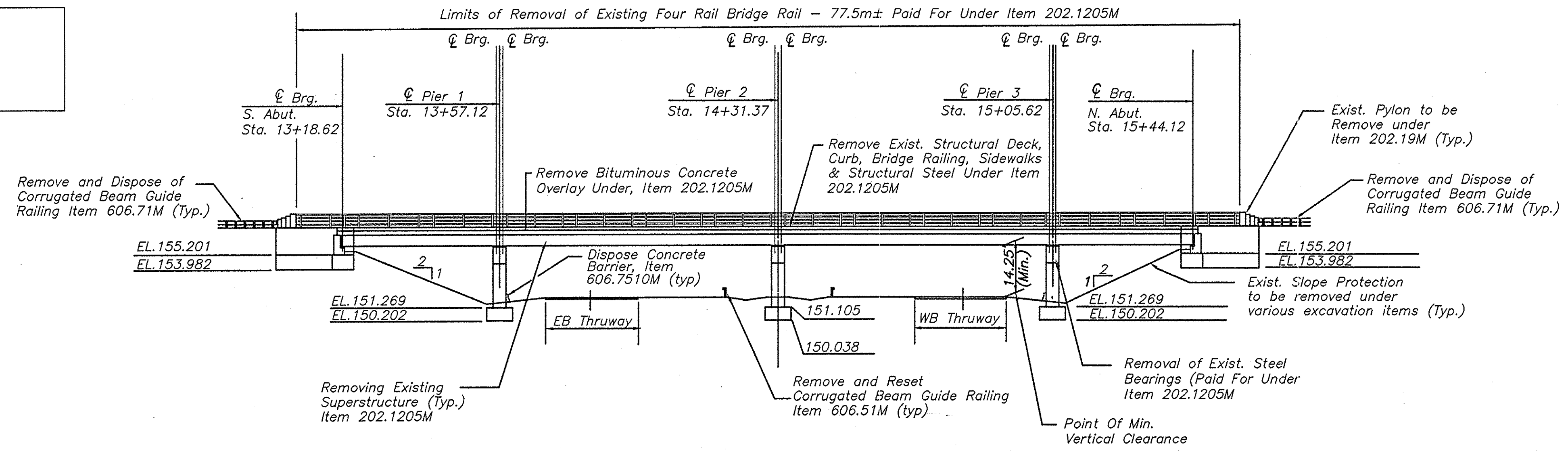
DRAWING NUMBER:
E14

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.



M.P. 324.79 BENCH LIST		
BENCH I.D.	ELEVATION	DESCRIPTION
BM #1	151.957	R.R. Spk. In 9" Box Elder
BM #2	155.505	R.R. Spk. In NYSEG W64
BM #WW	151.602	Chisel In S.E. Cr. S.E. Wall
TBM #76	151.761	PK. In S. Bank @ E.B. Lane

NOTICE:
EXISTING BORING LOCATIONS AND
LOGS ARE LOCATED IN THE FOUNDATION
REPORT AVAILABLE AT THE ALBANY
HEADQUARTERS STRUCTURES DESIGN
BUREAU.



BENCH ELEVATIONS REVISED

DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 324.79
GRANGE HALL ROAD

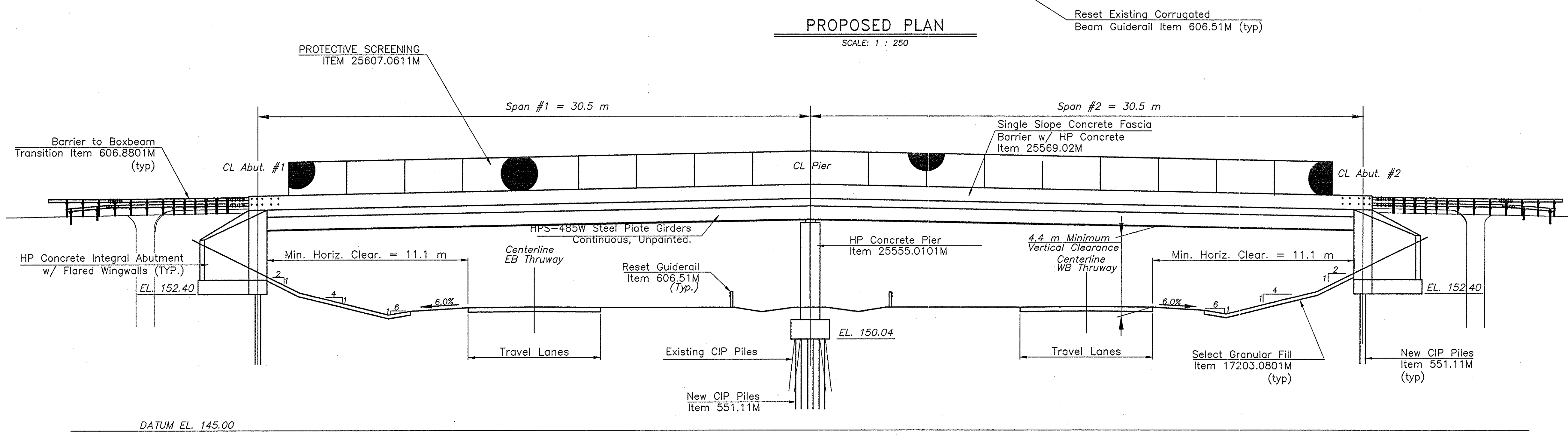
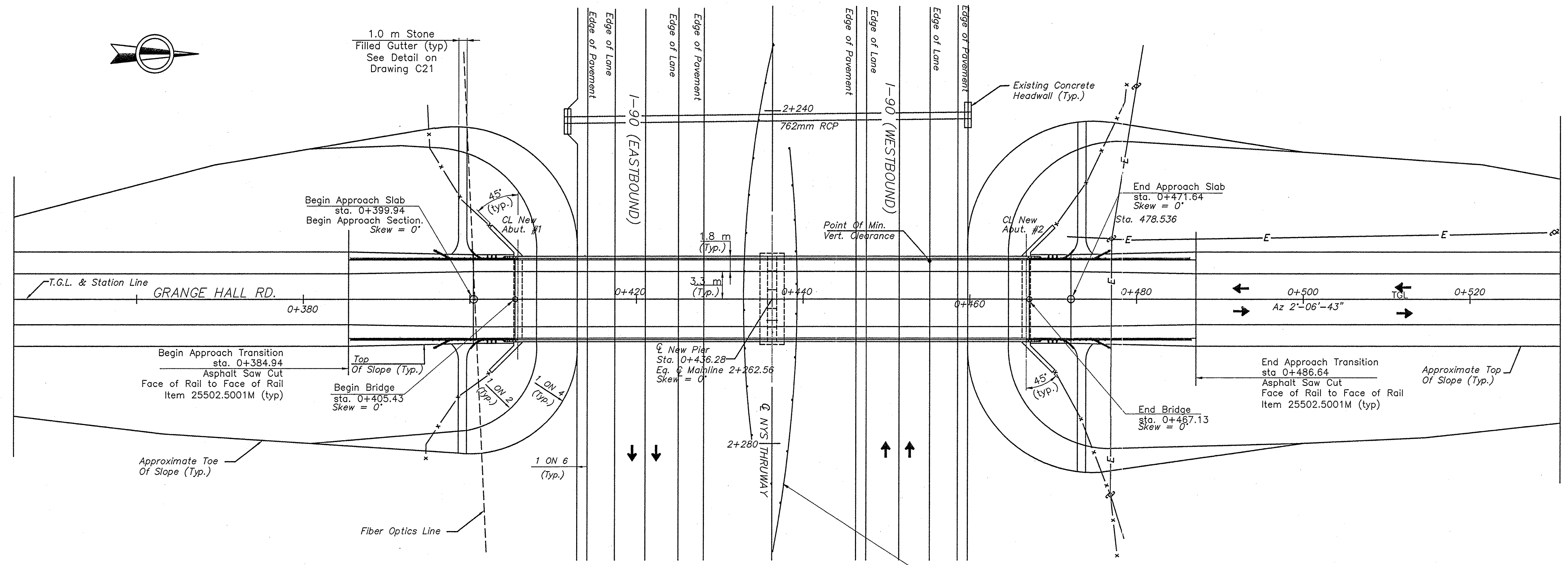
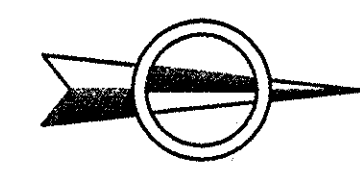
TITLE OF DRAWING
EXISTING BRIDGE
PLAN AND ELEVATION

CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
F1

CHECKED BY: [Signature]
DESIGNED BY: [Signature]
IN CHARGE OF: [Signature]



NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 324.79
GRANGE HALL ROAD

TITLE OF DRAWING
PROPOSED PLAN AND ELEVATION



CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98


DRAWING NUMBER:
F2

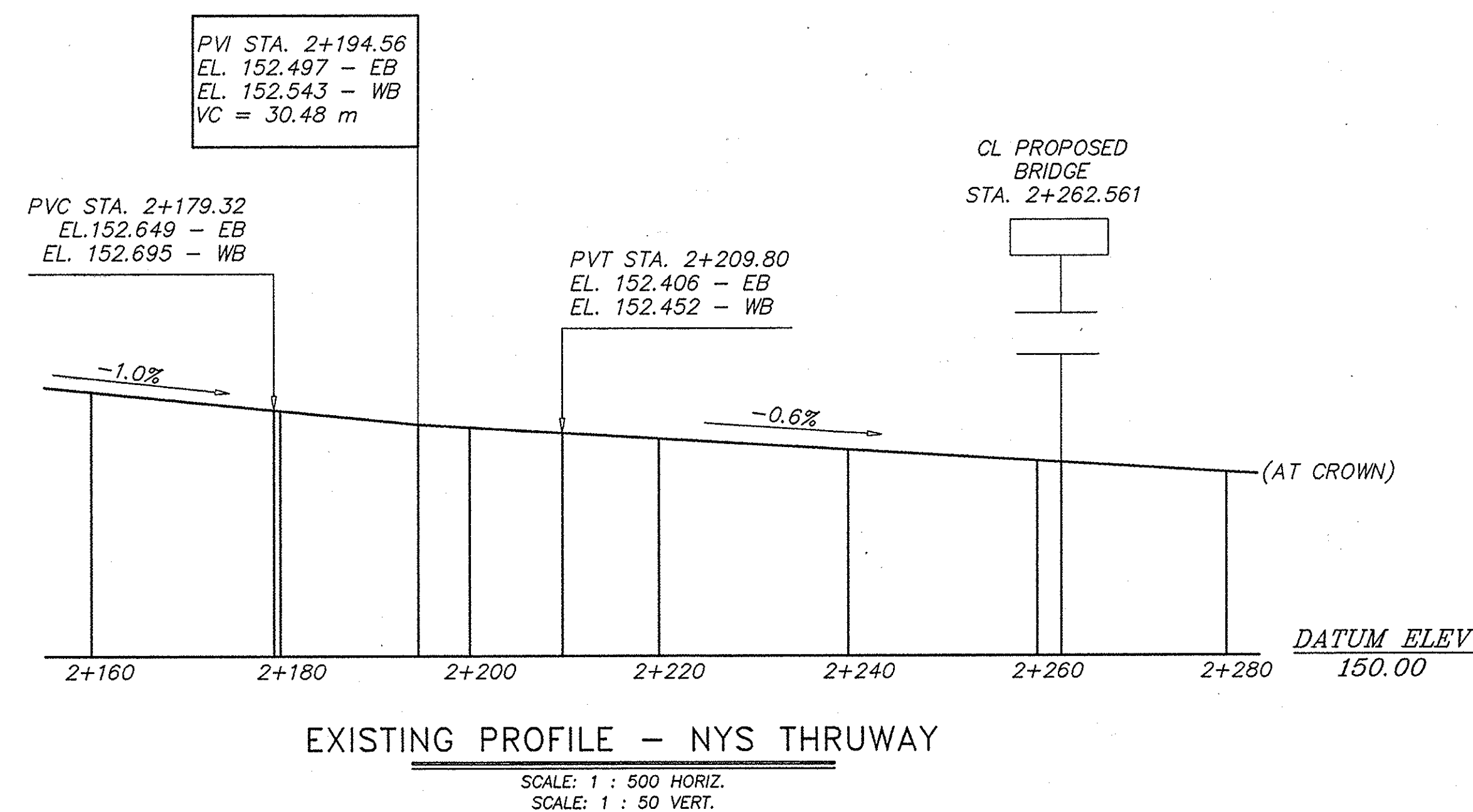
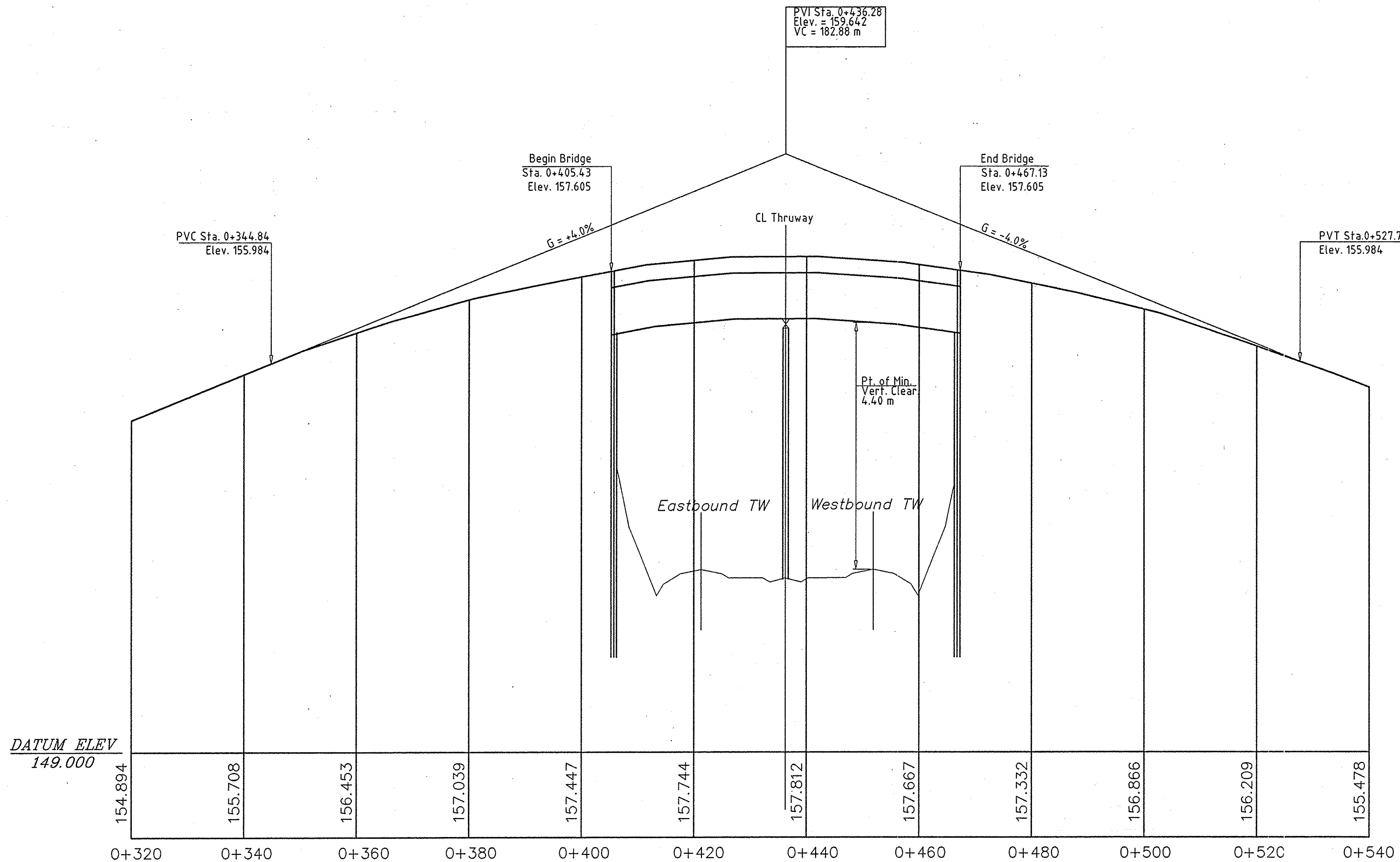
DESIGNED BY: [Signature] IN CHARGE OF: [Signature] DRAFTED BY: [Signature] CHECKED BY: [Signature] FILED: 03/24/98

IN CHARGE OF: *XX* *Paula A. Sullivan* DESIGNED BY: *XX* *Paula A. Sullivan* DRAFTED BY: *XX* *Paula A. Sullivan* CHECKED BY: *XX* *Paula A. Sullivan* 5 BRIDGES MP 324.79 WEST

ESTIMATE OF QUANTITIES				
ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
202.1205M	REMOVE EXISTING SUPERSTRUCTURE	LS	NEC	100.00
900.9808	A-SILT FENCE	M	---	15.55
202.19M	REMOVAL OF SUBSTRUCTURES	CM	78.0	102.11
901.9808	A-INSTALL PIER BEARING TIE-DOWN BRACKETS	EA	---	10.00
203.02M	UNCLASSIFIED EXCAVATION AND DISPOSAL	CM	172.0	163.59
902.9808	A-GEOTEXTILE BEDDING	SM	---	109.92
17203.0801M	SLCT GRANLR FLL SLP PROT STRS	CM	43.0	75.98
903.9808	FA-RESET R.O.W. FENCING AT GRANGE & GRAVEL ROADS	LS	---	50.00
203.21M	SELECT STRUCTURE FILL	CM	590.0	598.26
206.01M	STRUCTURE EXCAVATION	CM	585.0	677.81
209.01M	TEMP. SOIL EROSION AND WATER POLLUTION CONTROL	FLS	0.2	0.00
304.03M	SUBBASE COURSE TYPE 2	CM	111.0	94.54
403.11M	ASPHALT CONCRETE TYPE 1 BASE COURSE	MT	11.0	30.27
403.13M	ASPHALT CONCRETE-TYPE 3 BINDER COURSE	MT	14.0	18.96
403.17M	ASPH CONC - TYPE 6F TOP COURSE (HIGH FRICTION)MARSHALL DESIGN	MT	37.0	46.67
906.9808	A- RADAR DETECTOR ACTIVATOR	LS	---	20.00
403.21	ASPHALT CONCRETE-T & L COURSE	MT	0.0	7.35
407.01M	TACK COAT	L	64.0	31.77
909.9808	A- ADDITIONAL SIGN SERIES	LS	---	20.00
490.30M	MISC. COLD MILL OF BIT CONC.	SM	200.0	281.45
911.9808	A- PLANTING VIBURNUM TOMENTOSUM	EA	---	---
25502.5001M	SAWCUTTING OF ASPHALT CONCRETE	M	54.0	83.20
551.09M	FURNISHING EQUIPMENT FOR DRIVING PILES	LS	NEC	20.00
551.11M	CAST-IN-PLACE CONC. PILES	M	584.0	339.73
551.14M	DYNAMIC PILE TESTING	EA	3.0	3.00
552.05M	SAFE OPERATE SHEET PILING	SM	196.0	0.00
25555.0101M	CONCRETE FOR STRUCTURES-CLASS HP	CM	251.0	255.46
25555.0466M	HI PERF. CONC. FOR STRUC CL HP (ST SLAB W/ INT WEAR SUR BFR)	SM	643.0	643.00
25555.0468M	HP CONC FOR STRUCT, CLASS HP (STR APP SLAB W/INT WEAR SURF)	SM	100.0	100.00
556.03M	STUD SHEAR CONNec. FOR BRIDGES	EA	2490	7643.00
25556.99M	GALV. BAR REINFORCMENT FOR STR	KG	49 534	47803.15
558.01M	TRANSVR SAWCUT GROOVE STR SLAB	SM	646.0	646.00
25559.1696M	PROT. SEAL OF STRUC. CONCRETE	SM	1324.0	1324.00
25564.519805M	TRANS. & ERECT. OF STRUCT. STEEL	LS	NEC	100.00
565.1722M	TYPE M.R. FIXED BEARINGS	EA	5	5.00

ESTIMATE OF QUANTITIES				
ITEM	DESCRIPTION	UNIT	ESTIMATE	FINAL
25569.02M	PERM. CONC. BARRIER CLASS HP	M	128.6	131.73
570.0905M	ENV. GROUND PROTECTION	LS	NEC	0.00
571.0101M	TREAT. & DISP. OF PAINT REM. WASTE	CM	0.2	0.00
605.1001M	UNDERDRAIN FILTER TYPE 2	CM	47.0	30.61
606.16M	CORRUGATED BEAM GUIDE RAILING	M	427.0	426.72
606.22M	ANCHORAGE UNIT FOR CORR. BM. G.R.	EA	4	4.00
606.51M	RESETTING CORR. BEAM GUIDE RAILING	M	115.0	110.96
606.71M	REM. & DISP. CORR. BM. G.R.	M	148.0	146.60
606.73M	REM. & DISP. BOX BM. GUIDE RAILING	M	113.0	109.60
606.7510M	REM. & DISP. CONC. BARR. HALF SEC.	M	49.0	48.79
606.7920M	REM. & DISP. BX. BM. END ASSEMBLY	EA	2	2.00
606.81M	G.R. TRANS. CORR. BM. TO BOX BM.	EA	4	4.00
606.8801M	BOX BM. G.R. TRANS. TO CONC. BARR.	EA	4	4.00
25607.0611M	PROTECTIVE SCREENING BRIDGES	M	115.2	115.20
609.0201M	STONE CURB - GRANITE (TYPE A)	M	2.2	20.00
611.034163M	PLANTING PINUS NIGRA	EA	8	8.00
611.046342M	PLANTING RHUS AROMATICA	EA	112	112.00
611.049662M	PLANTING VIBURNUM TOMENTOSUM	EA	16	0.00
619.01M	BASIC MAINTENANCE & PROTECTION OF TRAFFIC	LS	NEC	20.00
619.02M	CONSTRUCTION SIGNS	LS	NEC	20.00
619.0303M	FLASHING ARROW BOARDS	LS	NEC	20.00
619.0413M	TYPE III CONSTRUCT. BARRICADES	M	17.0	14.64
619.0502M	LIGHTING FOR CONST. BARRICADES	M	12.0	12.20
25619.1701M	TEMPORARY CONCRETE BARRIER	M	195.0	268.50
25619.1704M	CONCRETE BARRIER MARKERS	EA	8	8.00
25637.070102M	ENGINEER'S OFFICE - TYPE C	MOS	4.0	4.00
699.04M	MOBILIZATION	LS	NEC	20.00

FINAL QUANTITIES SHOWN NEW ITEMS LISTED			
12/00	Kenneth W. Pardo		
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT MP 324.79 GRANGE HALL ROAD			
TITLE OF DRAWING ESTIMATE OF QUANTITIES			
		CONTRACT NUMBER: TAS 98-88	
		DATE: 3/98	
		DRAWING NUMBER: F3	



NOAS-BUILT REVISIONS

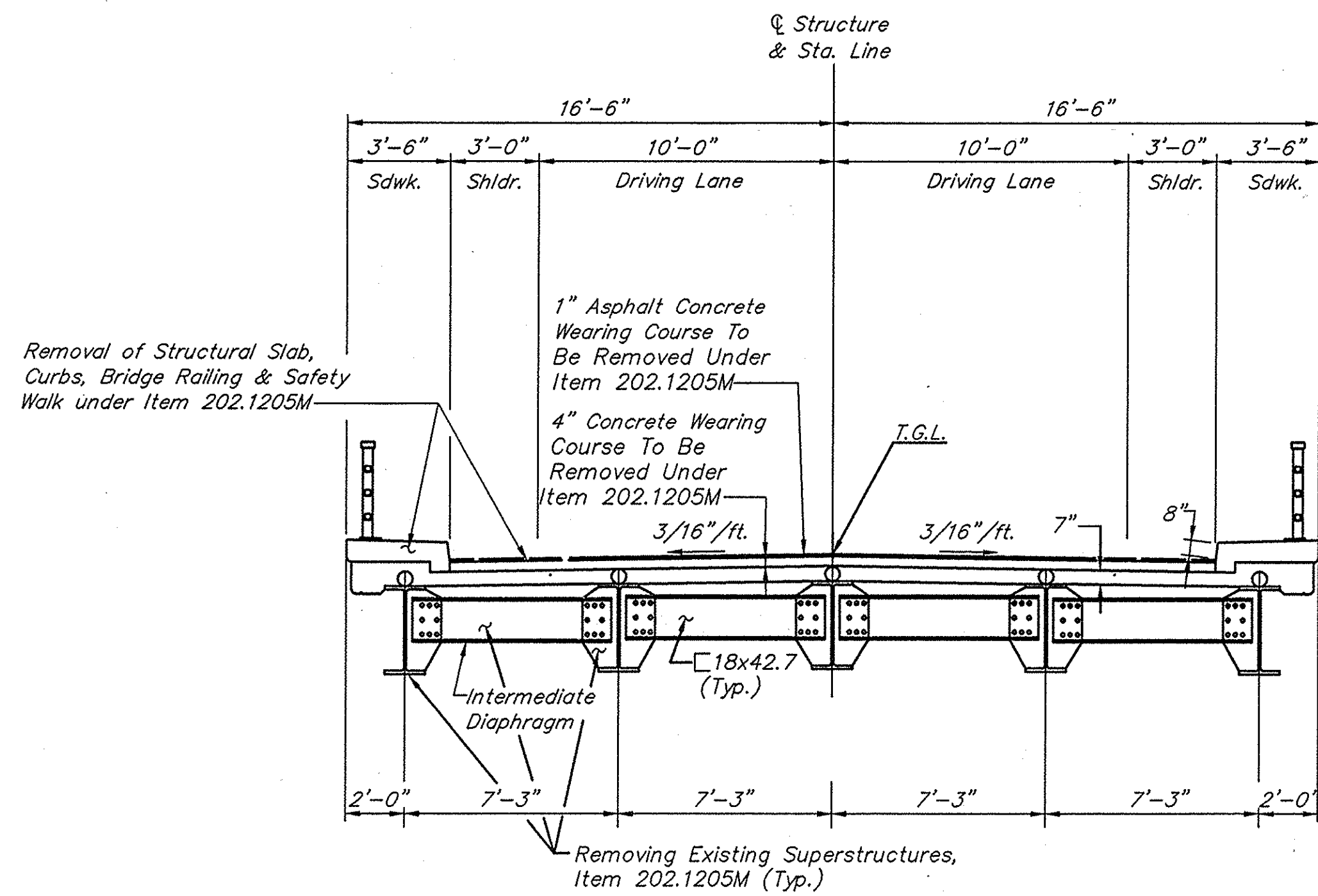
DATE	DESCRIPTION	BY	SYM.

REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT MP324.79 GRANGE HALL ROAD			
TITLE OF DRAWING PROFILES			

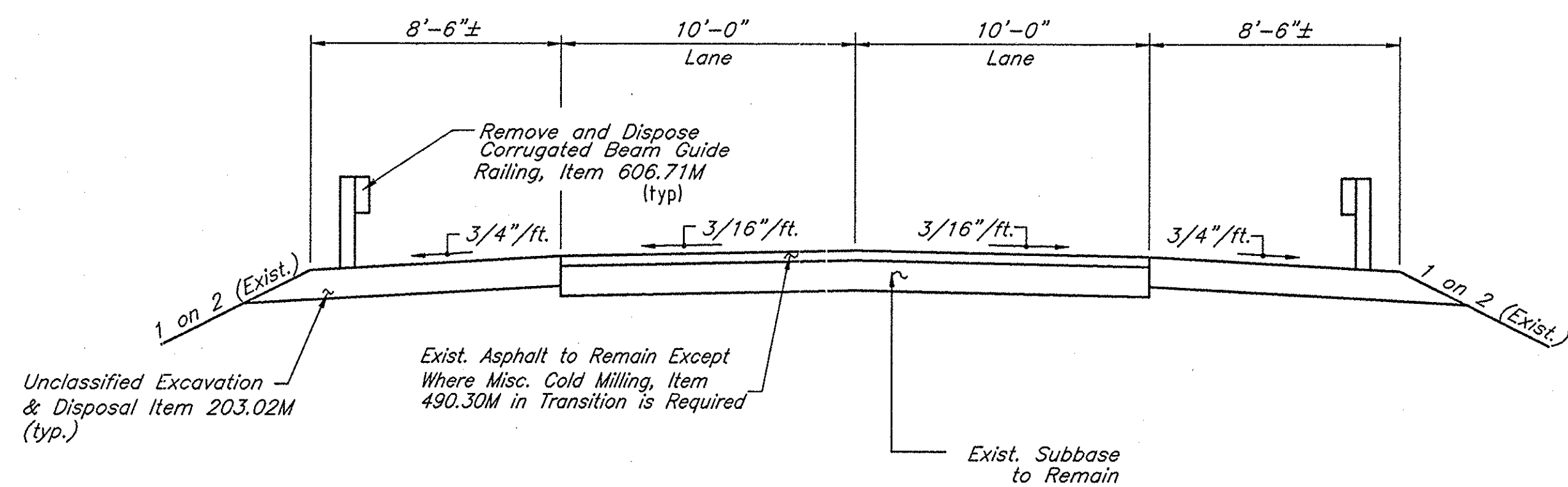


CONTRACT NUMBER:	TAS 98-8B
DATE:	3/98
DRAWING NUMBER:	F4

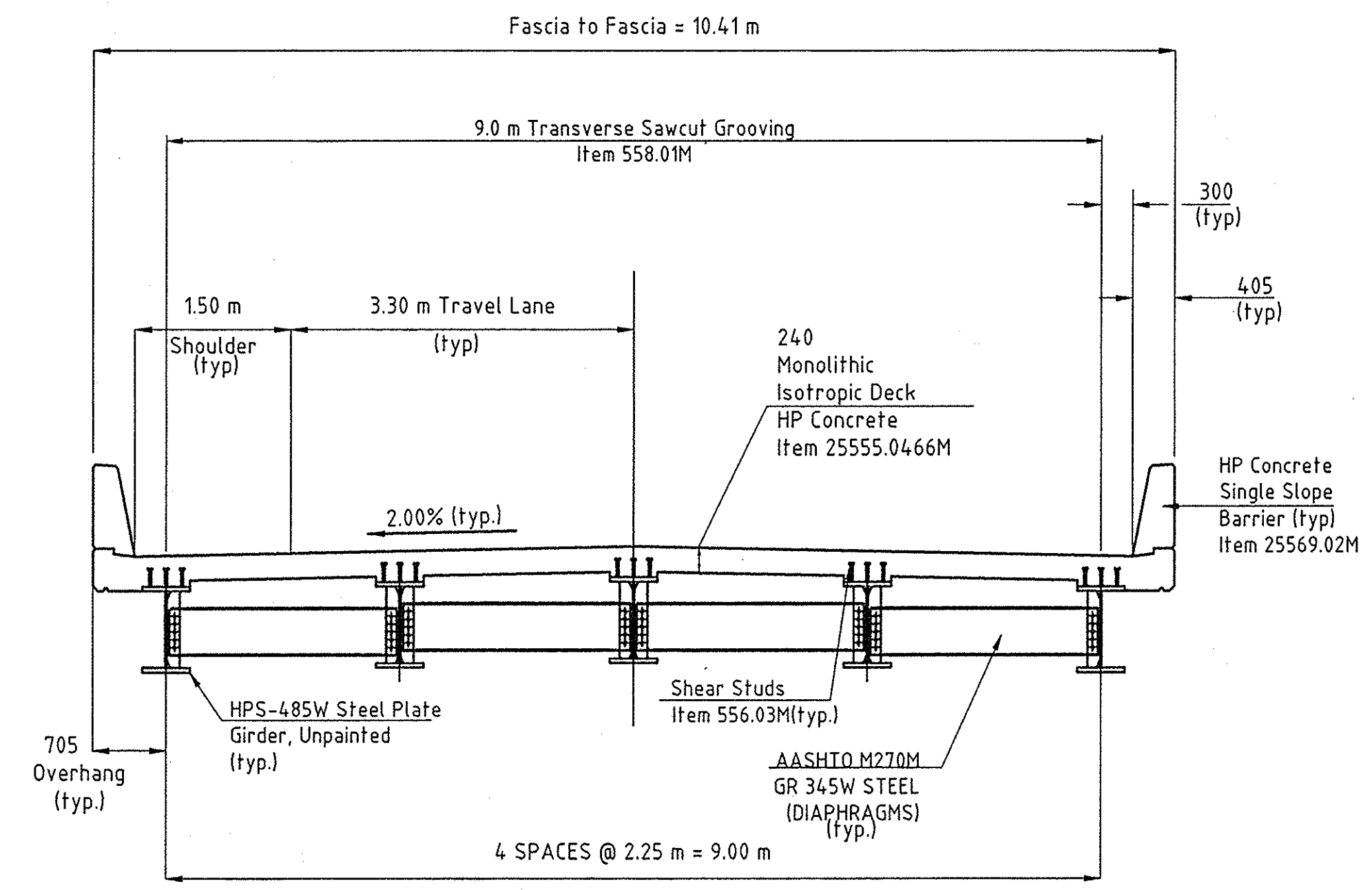
NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.



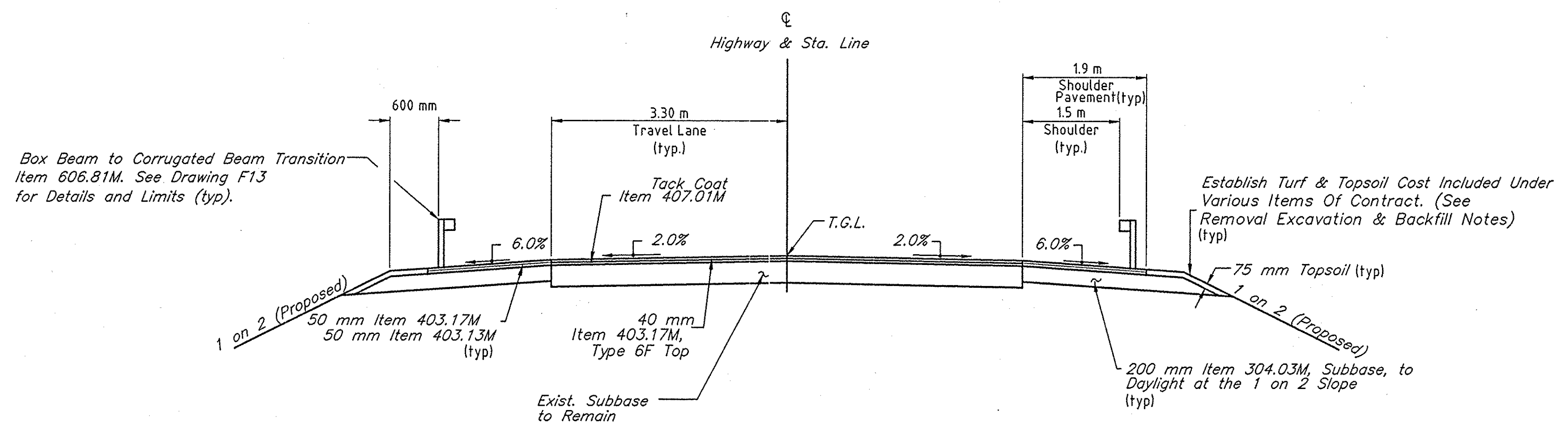
EXISTING BRIDGE SECTION
Scale: 1/4" = 1'-0"



EXISTING HIGHWAY SECTION
Scale: 1/4" = 1'-0"



PROPOSED BRIDGE SECTION
Scale: 1 : 50



PROPOSED HIGHWAY SECTION
Scale: 1 : 50
@ "Begin Approach Slab" and "End Approach Slab".

NOAS-BUILT REVISIONS

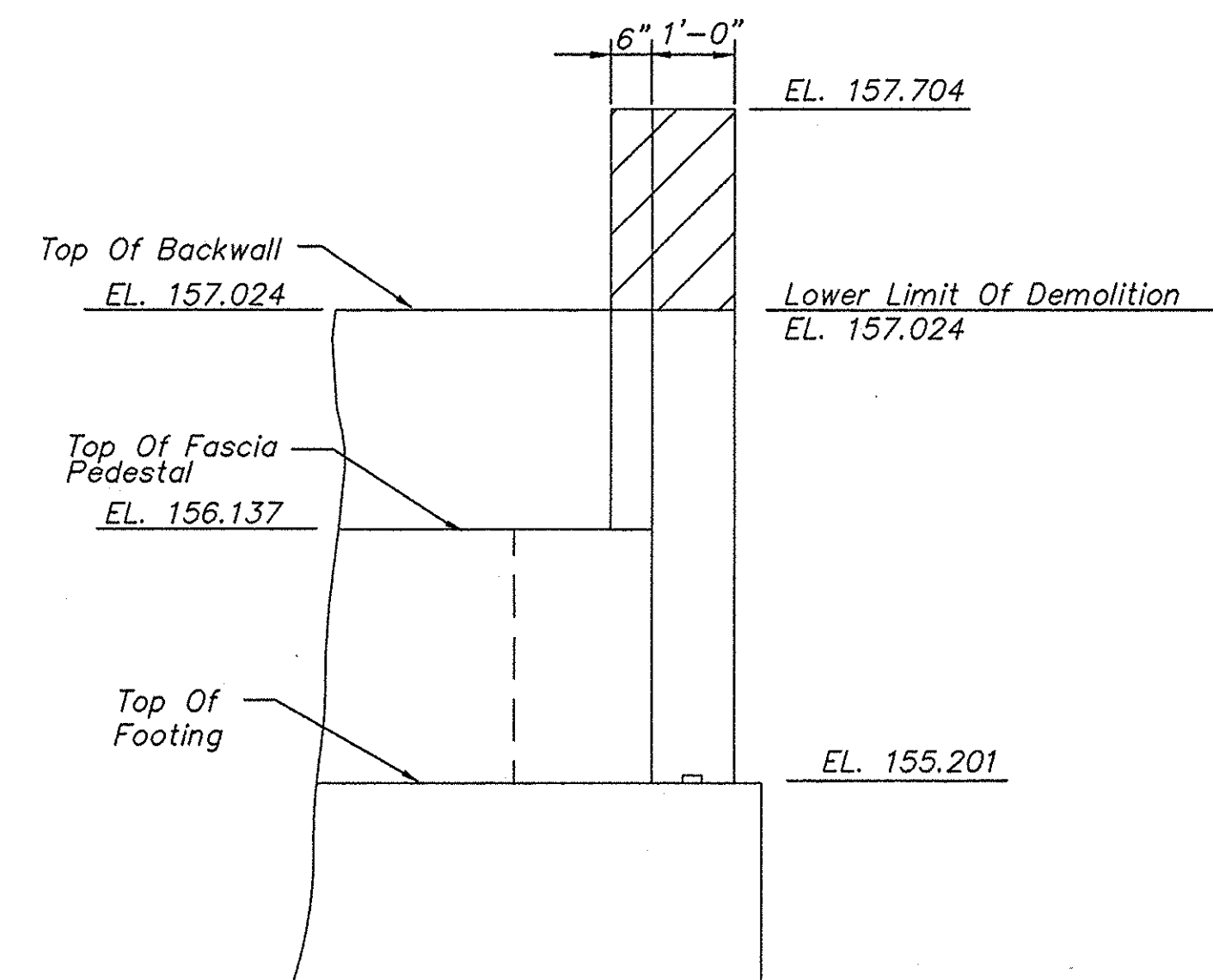
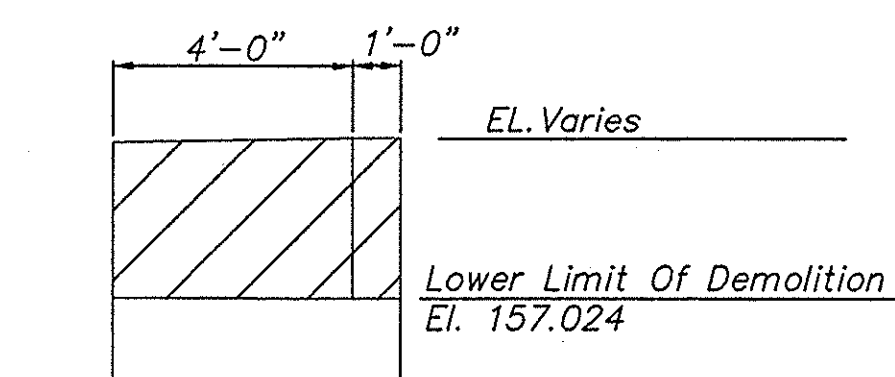
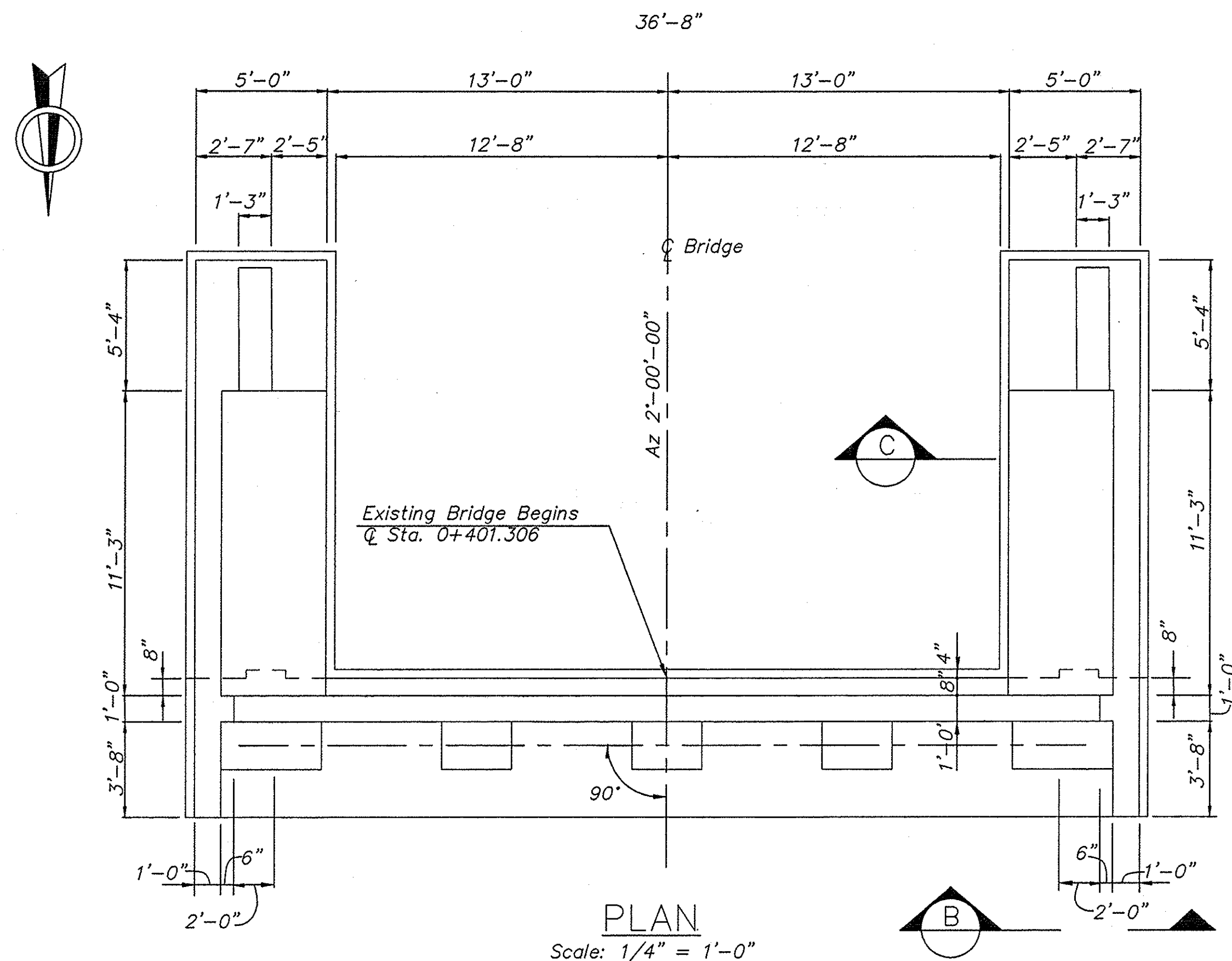
DATE	DESCRIPTION	BY	SYM.

REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT MP 324.79 GRANGE HALL ROAD			
TITLE OF DRAWING EXISTING AND PROPOSED BRIDGE AND HIGHWAY SECTIONS			

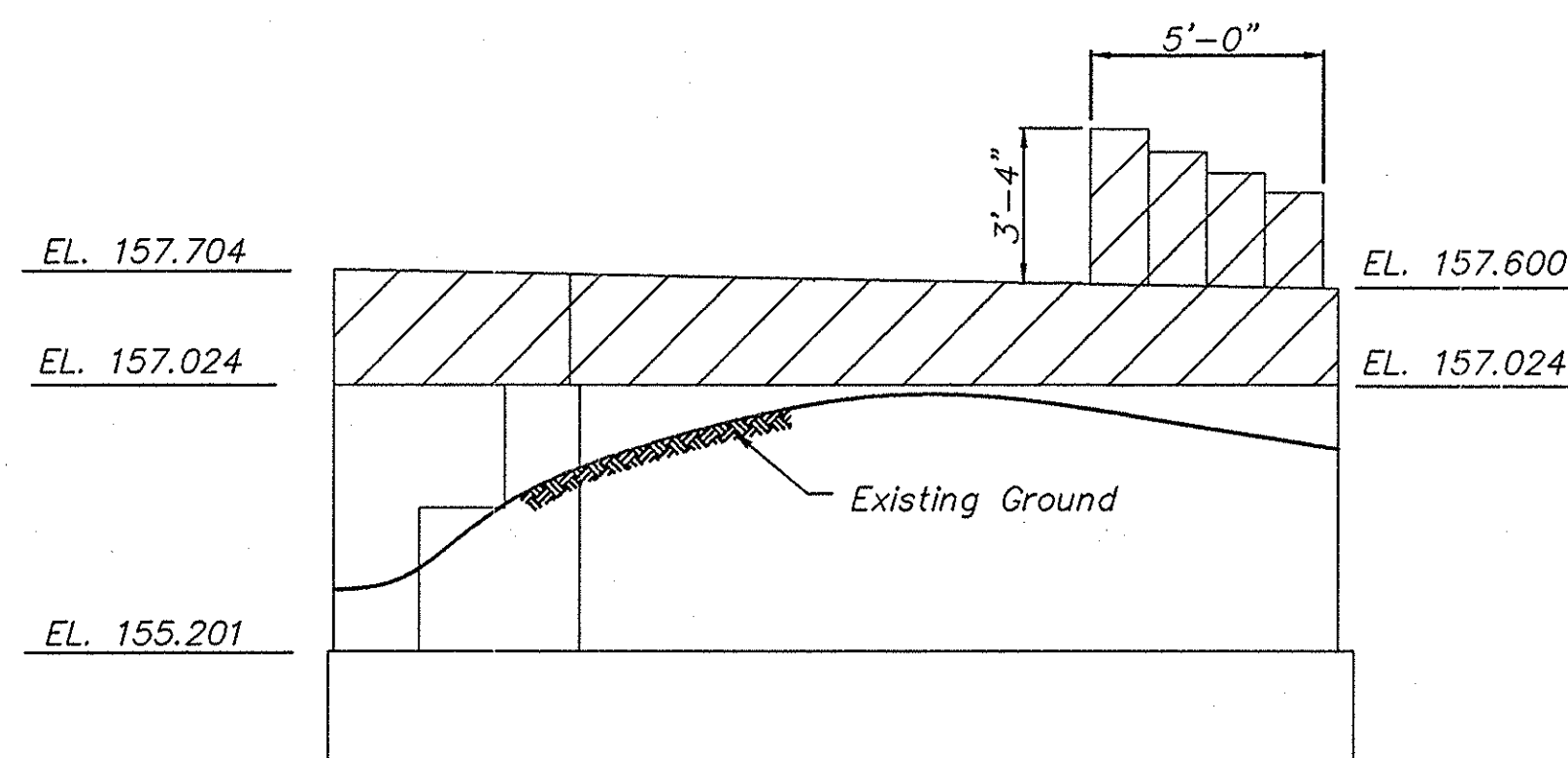
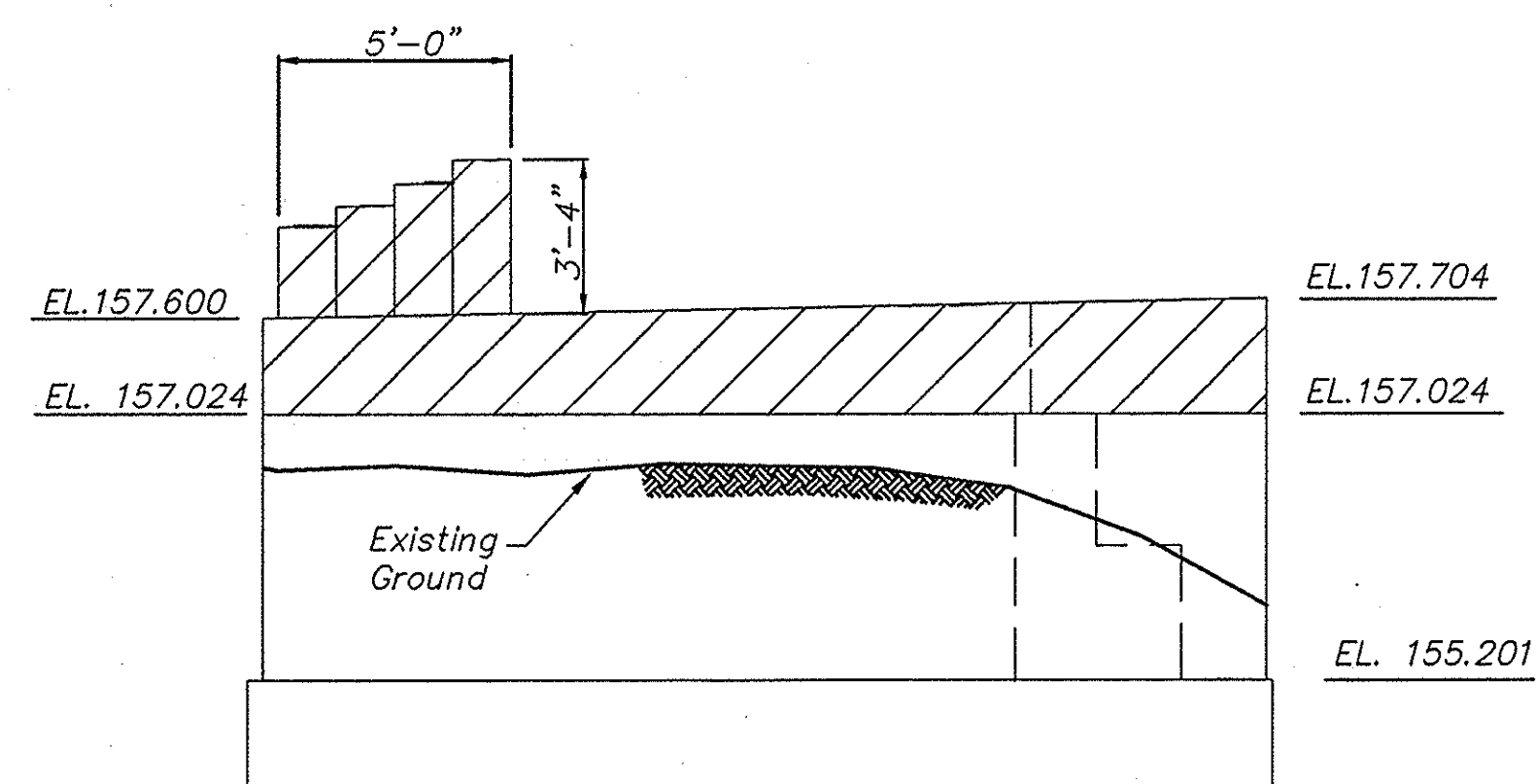
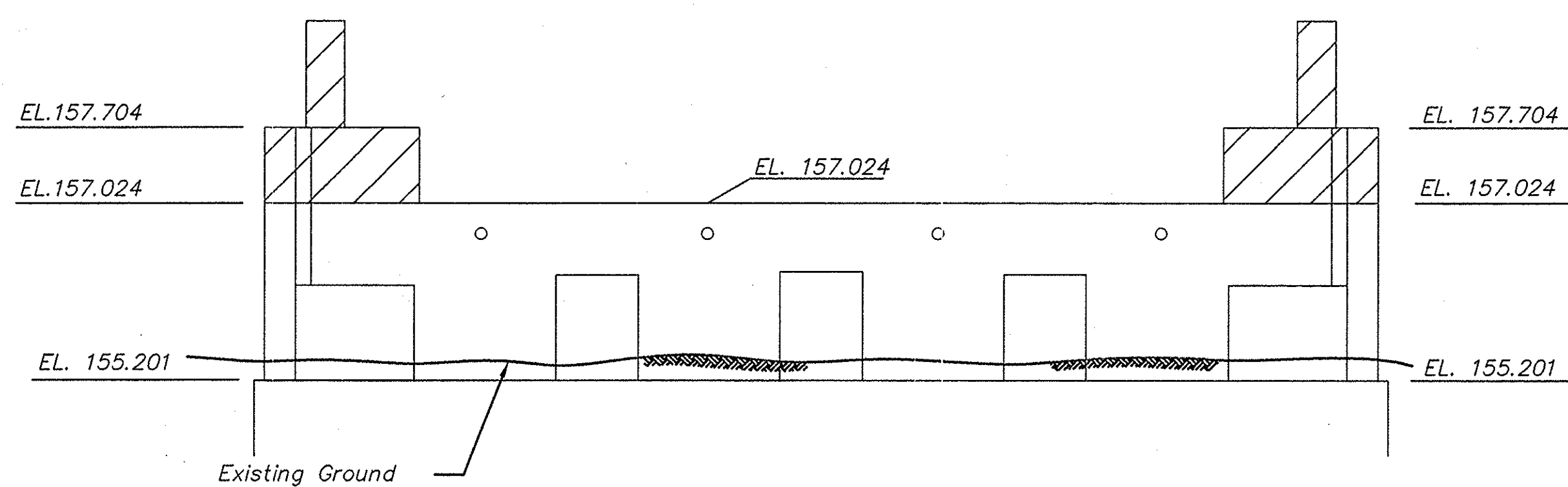
	CONTRACT NUMBER:
	TAS 98-8B
	DATE:
	3/98
	DRAWING NUMBER:
	F5

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

IN CHARGE OF: *[Signature]*
DESIGNED BY: *[Signature]*
CHECKED BY: *[Signature]*
DRAFTED BY: *[Signature]*
F5 BRIDGES MP 324.79 SECTIONS



— PARTIAL REMOVAL OF ABUTMENT PAID UNDER ITEM 202.19M — "REMOVAL OF SUBSTRUCTURES".



NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH UNITS.
 ALL ELEVATIONS ARE SHOWN IN METERS.

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
 5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
 MP 324.79
 GRANGE HALL ROAD

TITLE OF DRAWING
 EXISTING SOUTH ABUTMENT
 REMOVAL DETAILS



CONTRACT NUMBER:
 TAS 98-8B
 DATE:
 3/98
 DRAWING NUMBER:
 F6

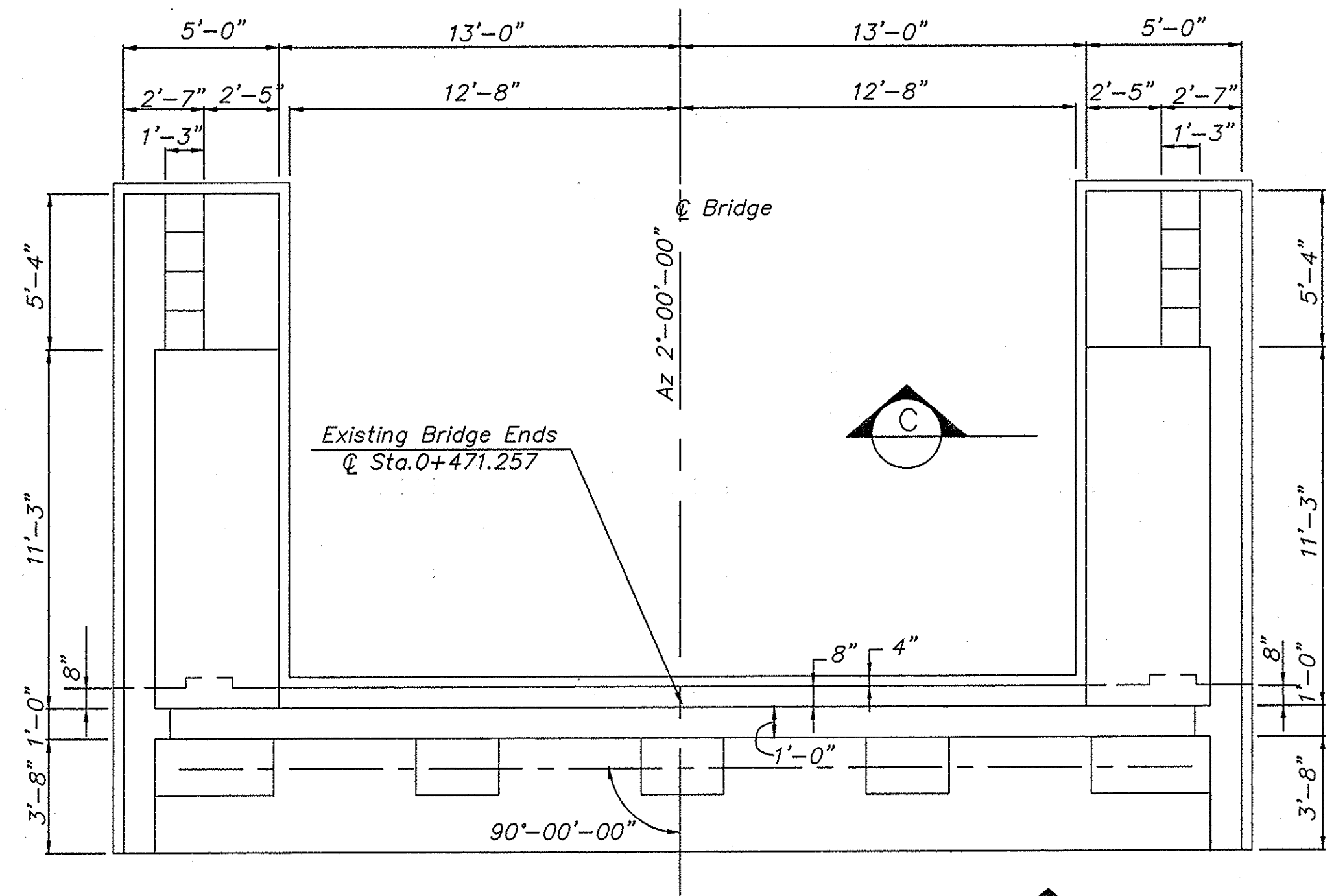
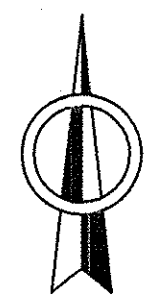
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DRAFTED BY: [Signature]

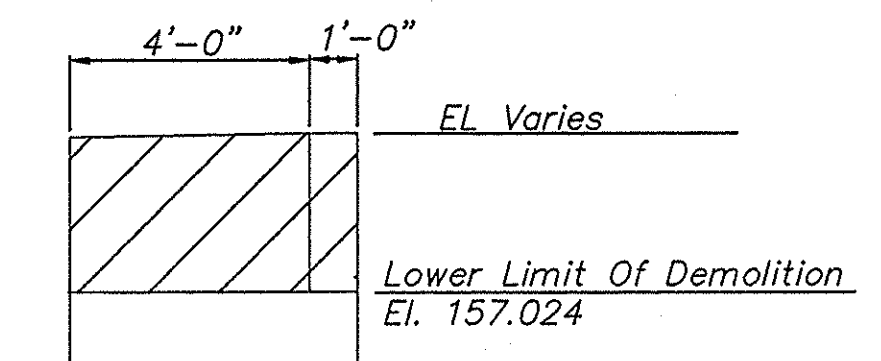
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IN CHARGE OF: [Signature]

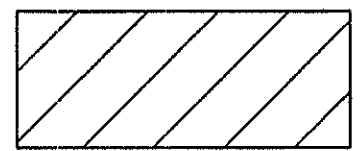
IN CHARGE OF: *Russell C. Cullen* DESIGNED BY: *[Signature]* DRAFTED BY: *[Signature]* CHECKED BY: *[Signature]* F:\BRIDGES\32479\NAB\UTREM

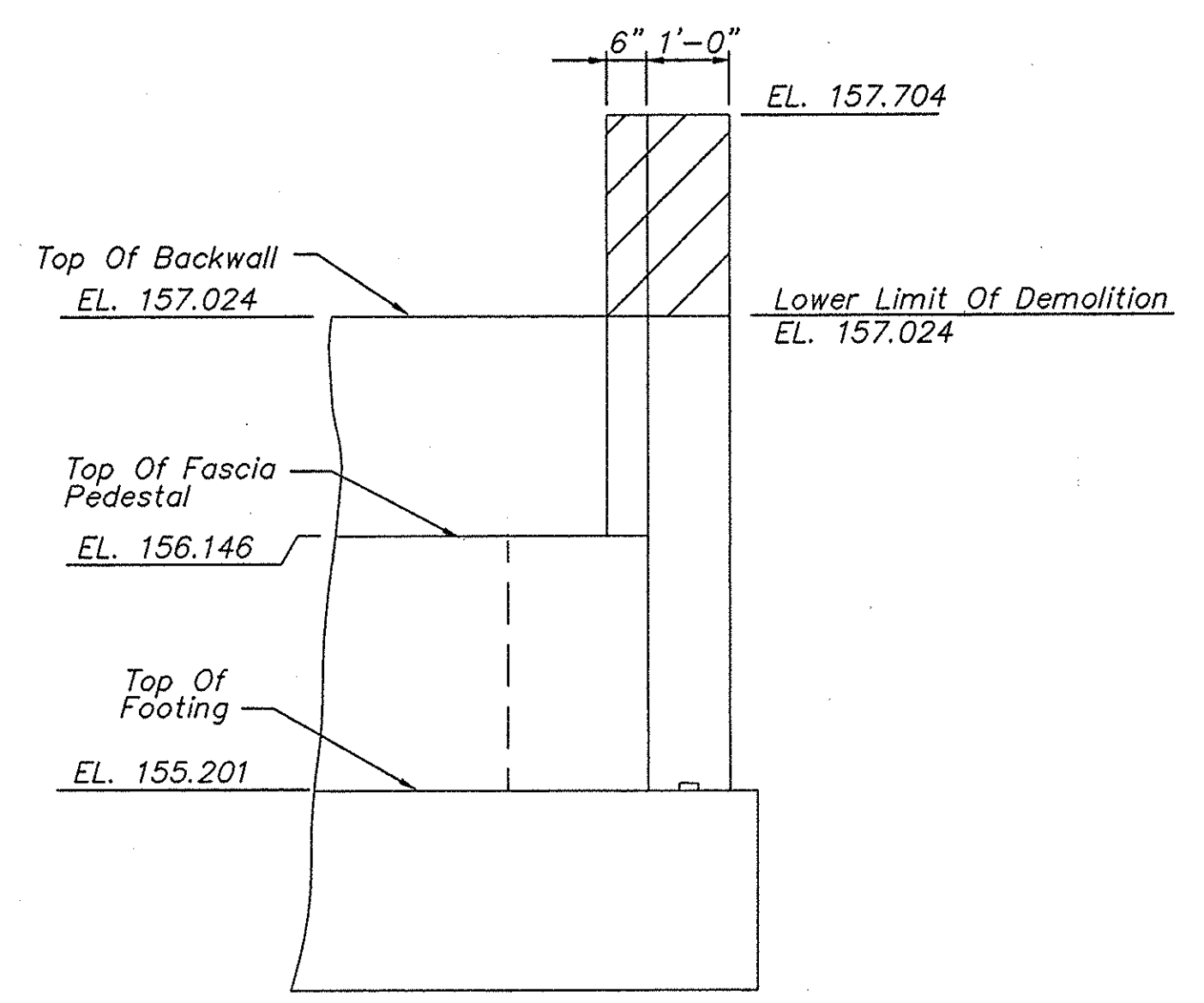


PLAN
Scale: 1/4" = 1'-0"

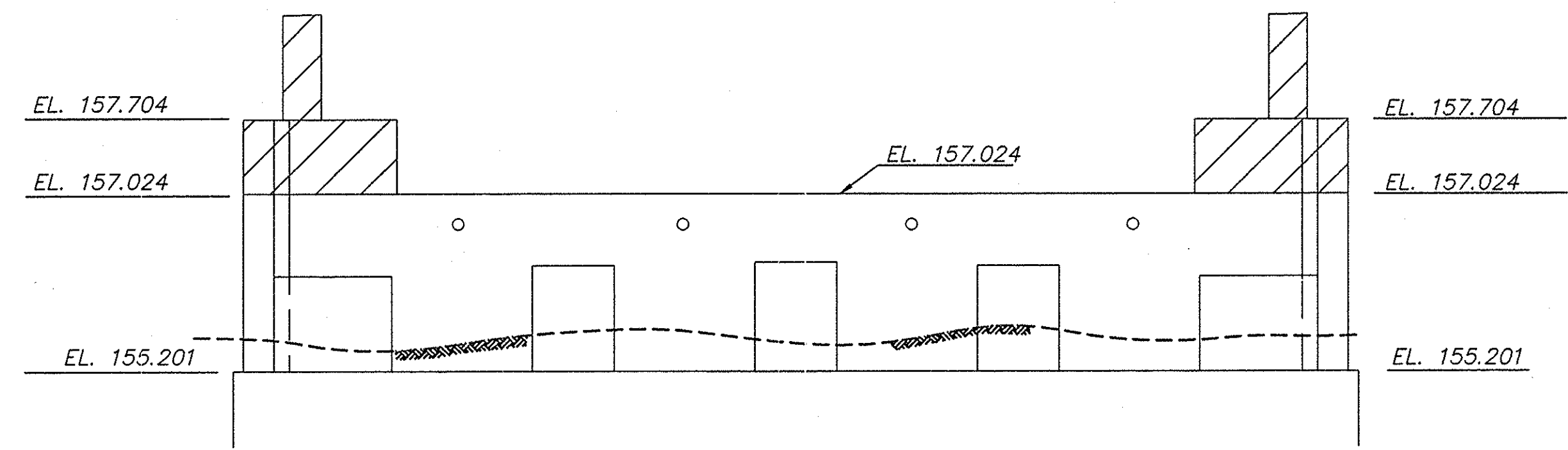


SECTION C
NTS

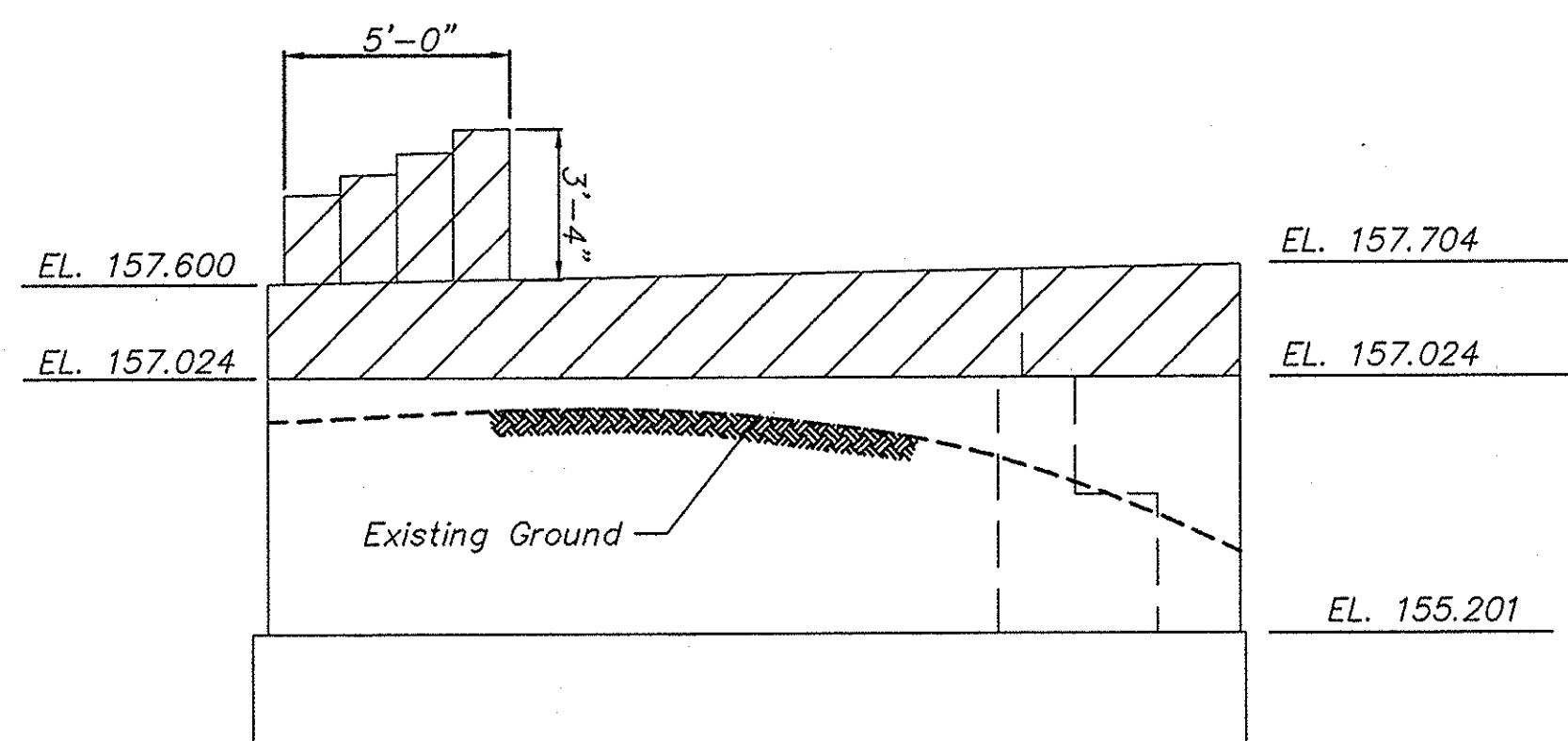
 - PARTIAL REMOVAL OF ABUTMENT PAID UNDER ITEM 202.19M - "REMOVAL OF SUBSTRUCTURES".



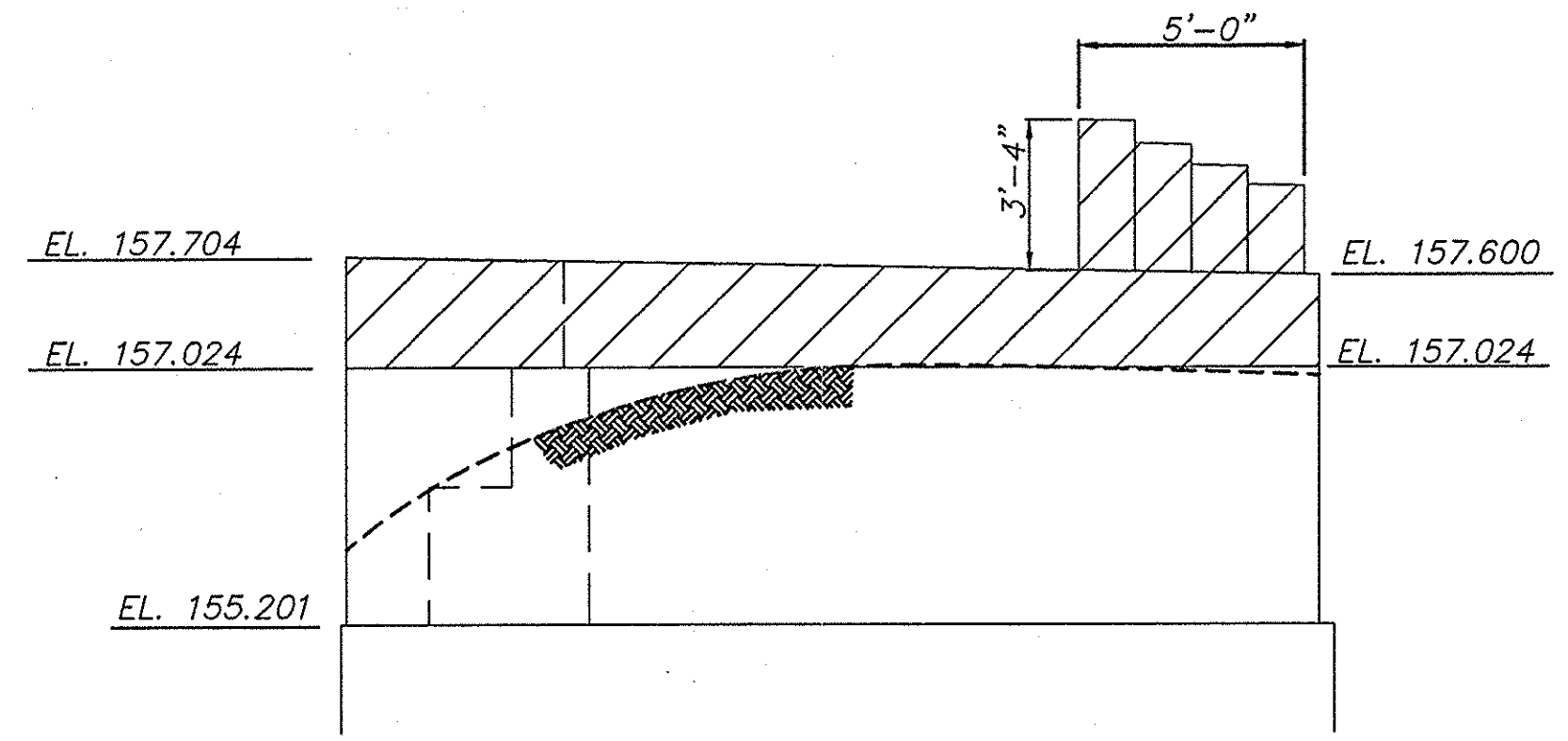
SECTION B
Scale: 1/2" = 1'-0"



ELEVATION
Scale: 1/4" = 1'-0"




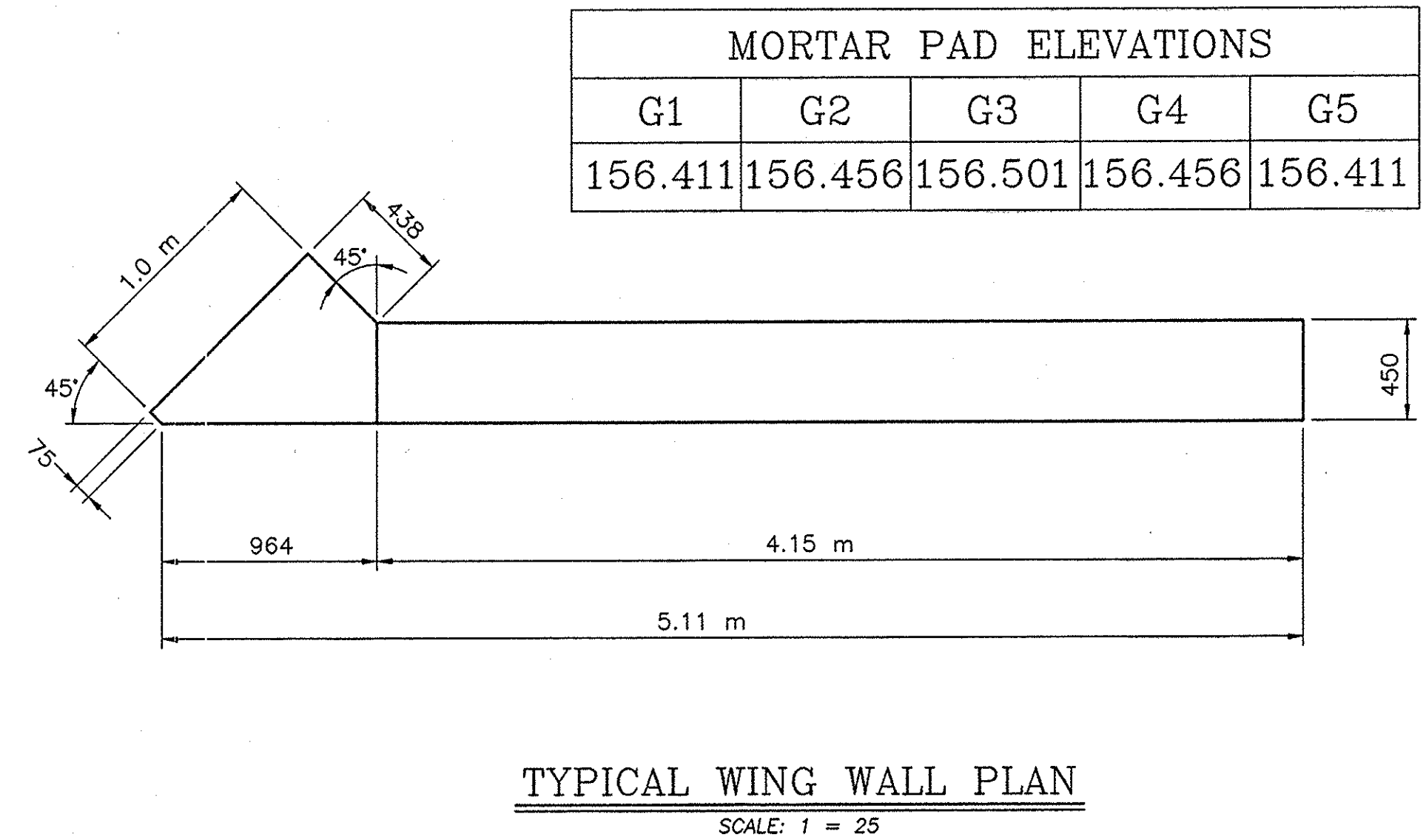
WEST WINGWALL ELEVATION
Scale: 1/4" = 1'-0"



EAST WINGWALL ELEVATION
Scale: 1/4" = 1'-0"


NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH UNITS.
ALL ELEVATIONS ARE SHOWN IN METERS.

NOAS-BUILT REVISIONS			
1/24/00	Sup		
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT MP 324.79 GRANGE HALL ROAD			
TITLE OF DRAWING EXISTING NORTH ABUTMENT REMOVAL DETAILS			
	CONTRACT NUMBER: TAS 98-8B		
	DATE: 3/98		
	DRAWING NUMBER: F7		

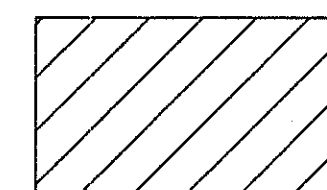
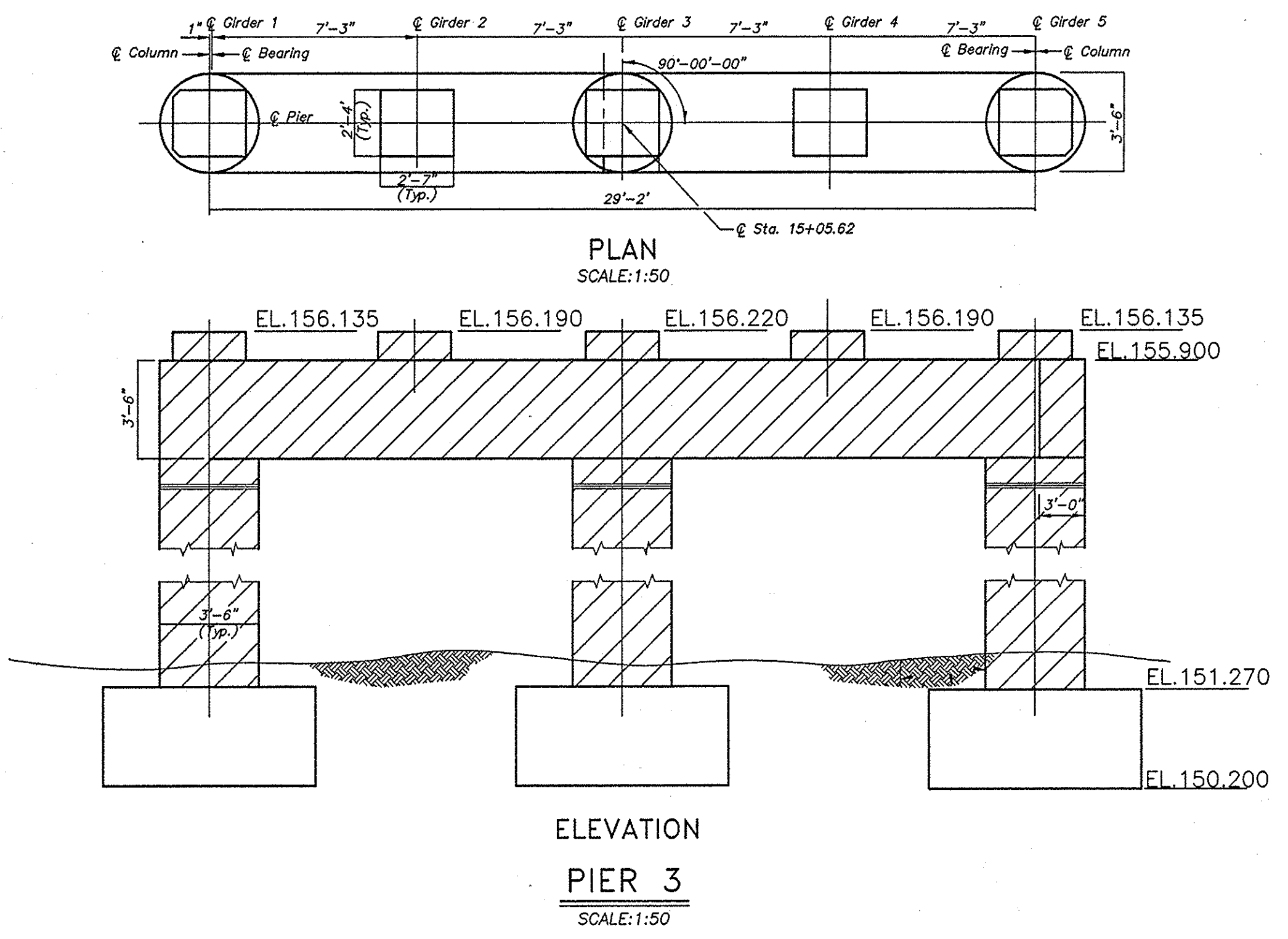
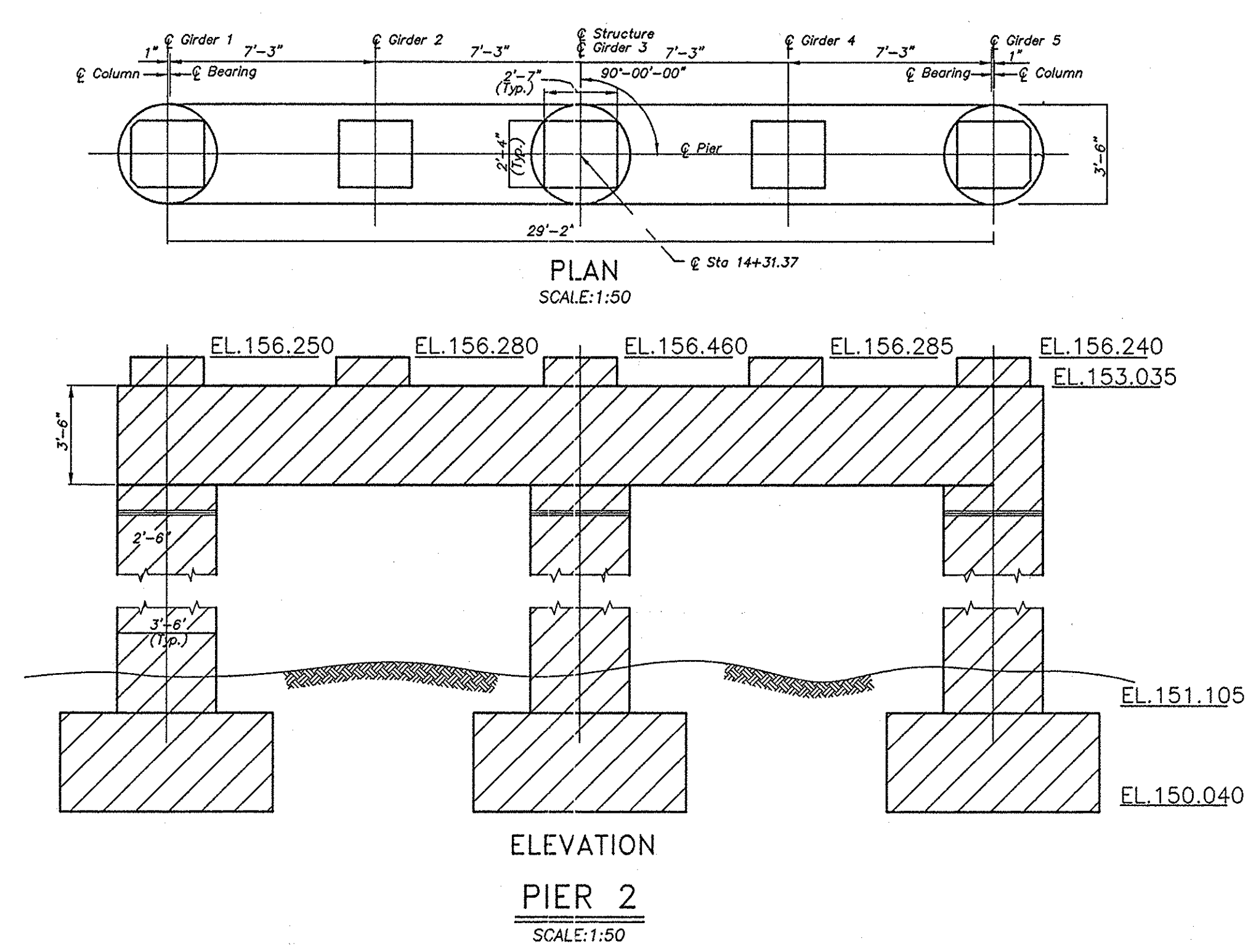
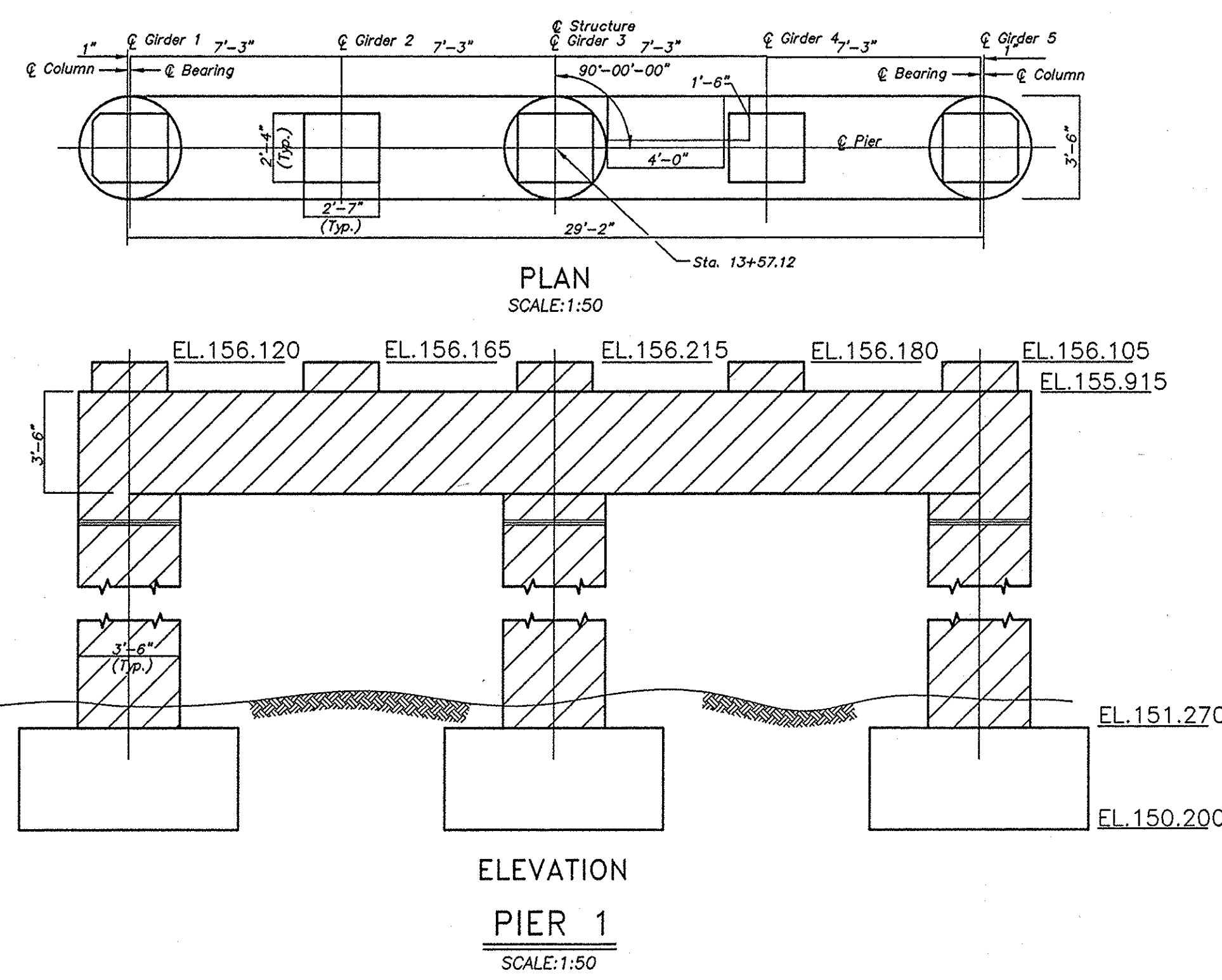


1. IF ANY PORTIONS OF THE ABANDONED EXISTING SUBSTRUCTURES ARE WITHIN A 1.0 METER LATERAL LIMIT OF THE PROPOSED FOOTINGS, THEY SHALL BE COMPLETELY REMOVED IN THIS AREA. THE PORTION OF THE ABANDONED EXISTING SUBSTRUCTURES WHICH ARE BEYOND THIS LATERAL LIMIT SHALL BE REMOVED TO A DEPTH OF 600 mm LOWER THAN THE PROPOSED ROADWAY SUBGRADE OR 300 mm BELOW THE FINISHED GROUND LINE. BACKFILL OF THESE EXCAVATIONS SHALL BE WITH AN APPROPRIATE BACKFILL MATERIAL.
2. THE PILES AT EACH INTEGRAL ABUTMENT SHALL BE INSERTED IN PREAUGERED 500 MILLIMETER DIAMETER HOLES THAT EXTEND 2.4 METERS BELOW THE BOTTOM OF EACH ABUTMENT STEM. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP EACH OF THESE HOLES OPEN DURING THE INSTALLATION OF THE PILES SO THAT CUSHION SAND CAN BE PLACED LOOSELY AROUND EACH PILE FOR THE FULL DEPTH OF THE PREAUGERED HOLE. THE COST OF AUGERING THESE HOLES, CASING, AND CUSHION SAND SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PILE ITEM.
3. THE USE OF MECHANICAL PILE SPLICES MAY BE ALLOWED ON THIS STRUCTURE CONTINGENT ON THE FOLLOWING REQUIREMENTS:
 - A. A SEAL WELD SHALL BE PLACED COMPLETELY AROUND THE TOP AND BOTTOM OF THE SPlicer SLEEVE.
 - B. NO SPlicer SLEEVES SHALL BE USED WITHIN 9.0 METERS OF THE PILE TIP.
 - C. USE OF MECHANICAL PILE SPLICES SHALL BE AVOIDED WITHIN 1.6 METERS OF THE CUT-OFF ELEVATION. WHEN THE LENGTH OF THE PILE IS KNOWN PRIOR TO DRIVING, THIS REQUIREMENT SHALL BE STRICTLY OBSERVED.
4. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF BOULDERS IN THE AREA TO BE EXCAVATED OR RETAINED DURING CONSTRUCTION AT THE ABUTMENTS AND PIER. THE CONTRACTOR SHALL GOVERN HIS OPERATIONS AND PROCEDURES ACCORDINGLY, WITHIN THE APPROPRIATE SPECIFICATION ITEMS, INCLUDING THE SELECTION AND POSSIBLE USE OF SHEETING WITH SUFFICIENT SIZE AND SECTION TO WITHSTAND THE EXPECTED HARD DRIVING.
5. THE FOOTING FOR THE WINGWALLS IS DESIGNED TO EXERT A MAXIMUM FOUNDATION PRESSURE OF 207 KPa.
6. THE CONCRETE USED FOR THE ABUTMENTS SHALL BE CLASS HP - ITEM 25555.0101M.

NOTE:
ALL DIMENSIONS ARE SHOWN IN MILLIMETERS
UNLESS OTHERWISE NOTED. ALL ELEVATIONS
ARE SHOWN IN METERS

NOAS-BUILT REVISIONS			
1/24/00	exp		
DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT MP 324.79 GRANGE HALL ROAD			
TITLE OF DRAWING PROPOSED ABUTMENT PLAN AND ELEVATION			
		CONTRACT NUMBER: TAS 98-8B DATE: 4/98 DRAWING NUMBER: F8	

IN CHARGE OF: XX *Kenneth A. Hoffman*
DESIGNED BY: XX *David A. Hoffman*
DRAFTED BY: XX *David A. Hoffman*
CHECKED BY: XX *David A. Hoffman*
SERIDGES WP32479 VABJTFE



- SUBSTRUCTURE REMOVAL UNDER ITEM 202.19M
"REMOVAL OF SUBSTRUCTURES".

NOTE: ALL DIMENSIONS ARE SHOWN IN ENGLISH UNITS.
ALL ELEVATIONS ARE SHOWN IN METERS.

NOAS-BUILT REVISIONS

1/24/00	Kuf		

DATE	DESCRIPTION	BY	SYM.
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REVISIONS

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

TITLE OF PROJECT
5 REPLACEMENT BRIDGES


LOCATION OF PROJECT
M.P. 324.79
GRANGE HALL ROAD

TITLE OF DRAWING
EXISTING PIER
REMOVAL DETAILS

CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
F9

	CONTRACT NUMBER:
	TAS 98-8B
	DATE:
	3/98
	DRAWING NUMBER:
	F10

MARK	SIZE	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H ₁	H ₂	J	K ₁	K ₂	L	O	R	REMARKS
DECK																					
13SG01	13	308	10.56 m	1	3233	150	10.26 m						150		100						TOP TRANSVERSE
13SG02	13	306	10.26 m	STR	3121																BOTTOM TRANSVERSE
13SG03	13	614	1.30 m	1	793	150	1.15 m								100						TOP TRANSVERSE OVERHANG
13SG04	13	102	9.41 m	1	954	150	9.26 m								100						TOP LONGITUDINAL ENDS
13SG05	13	104	9.26 m	STR	957																BOTTOM LONGITUDINAL ENDS
13SG06	13	515	9.26 m	STR	4740																TOP AND BOTTOM LONGITUDINAL
16SG07	16	614	1.05 m	17	1001		250	800													DECK INTO BACK OF BARRIER
16SG08	16	614	9.20	19	877		250	670						247		42					DECK INTO FRONT OF BARRIER
16SG09	16	100	6.67 m	STR	1035																TOP LONGITUDINAL (TENSION ZONE)
16SG10	16	3	10.26 m	STR	48																HORIZONTAL FRONT STEM CAP
16SG11	16	12	2.1 m	STR	39																HORIZONTAL BACK STEM CAP
16SG12	16	25	1.72 m	17	67		450	820	450												TOP OF STEM CAP
16SG13	16	25	1.05 m	19	41		350	700					250			250					FRONT FACE STEM CAP INTO DECK
16SG14	16	6	2.41 m	17	22		530	780	1.1 m												HORIZONTAL AROUND ENDS OF STEM CAP
16SG15	16	4	1.88 m	S11	12								900						140		DECK INTO BARRIER TRANSITION
16SG16	16	4	1.24 m	14	8	300	300	640					212			212					DECK INTO BARRIER TRANSITION (FRONT)
19SG17	19	35	3.2 m	14	250	650	450	2.1 m						320			320				BACK FACE STEM CAP INTO DECK
19SG18	19	35	1.55 m	17	121		800	750													MIDDLE STEM CAP INTO DECK
19SG19	19	8	10.26 m	STR	183																HORIZONTAL THROUGH GIRDER WEBS
19SG20	19	35	3.4 m	1	266	200	3.0 m						200			150					DECK END INTO APPROACH SLAB
22SG21	22	50	12.0 m	STR	1825																TOP LONGITUDINAL OVER PIER
subtotal = 19 593 kg																					
SOUTH APPROACH SLAB																					
16AP001	16	5	10.26 m	STR	80																TRANSVERSE TOP
16AP002	16	5	10.62 m	1	82	180	10.26 m						180			130					TRANSVERSE BOTTOM
16AP003	16	2	2.22 m	19	7		1.0 m	1.22 m					707			707					LONGITUDINAL FASCIA
16AP004	16	2	2.22 m	19	7		1.0 m	1.22 m					707			707					LONGITUDINAL FASCIA
16AP005	16	12	9.45 m	STR	176																TRANSVERSE TOP
16AP006	16	14	9.81 m	1	213	180	9.45 m						180			130					TRANSVERSE BOTTOM
16AP007	16	32	4.85 m	STR	241																LONGITUDINAL TOP
16AP008	16	8	1.88 m	S11	23								900						140		APPR. SLAB INTO BARRIER TRANSITION
16AP009	16	8	1.24 m	14	15	300	300	640					212			212					APPR. SLAB INTO BAR. TRANS. (FRONT)
16AP010	16	4	1.71 m	1	11	180	1.35 m						180			130					LONGITUDINAL TOP & BOTTOM
22AP011	22	60	5.35 m	1	976	250	4.85 m						250			180					LONGITUDINAL BOTTOM
subtotal = 1831 kg																					
NORTH APPROACH SLAB																					
16AP001	16	5	10.26 m	STR	80																TRANSVERSE TOP
16AP002	16	5	10.62 m	1	82	180	10.26 m						180			130					TRANSVERSE BOTTOM
16AP003	16	2	2.22 m	19	7		1.0 m	1.22 m					707			707					LONGITUDINAL FASCIA
16AP004	16	2	2.22 m	19	7		1.0 m	1.22 m					707			707					LONGITUDINAL FASCIA
16AP005	16	12	9.45 m	STR	176																TRANSVERSE TOP
16AP006	16	14	9.81 m	1	213	180	9.45 m						180			130					TRANSVERSE BOTTOM
16AP007	16	32	4.85 m	STR	241																LONGITUDINAL TOP
16AP008	16	8	1.88 m	S11	23								900						140		APPR. SLAB INTO BARRIER TRANSITION
16AP009	16	8	1.24 m	14	15	300	300	640					212			212					APPR. SLAB INTO BAR. TRANS. (FRONT)
16AP010	16	4	1.71 m	1	11	180	1.35 m						180			130					LONGITUDINAL TOP & BOTTOM
22AP011	22	60	5.35 m	1	976	250	4.85 m						250			180					LONGITUDINAL BOTTOM
subtotal = 1831 kg																					
Total Superstructure = 23 255 kg																					

MARK	SIZE	NO.	LENGTH	TYPE	WEIGHT	A	B	C	D	E	F	G	H H ₁	H ₂	J	K K ₁	K ₂	L	O	R	REMARKS
MEDIAN PIER (M.P. 324.79)																					
CIP PILES																					
10PPG01	10	398	1.08 m	N2	240	130		820					130						260		LOOP BARS IN PILES
19PPG02	19	132	2.90 m	1	856	200	2.70 m						<div></div>		150						VERTICAL PILE STEEL
subtotal = 1096 kg																					
FOOTING																					
13PG01	13	127	1044	T9	132	160	774						110	110							FRONT TO BACK TIES
13PG02	13	24	900	N18	22	160	580						160	110							TOP TO BOTTOM TIES
16PG03	16	12	8.05mAVG.	14	150	6.6mAVG	200	500	200	550				150	150		150	150	800		HORIZ. STEM BASE(2 OF EACH LENGTH)
						A VARIES FROM 6.5 m TO 6.7 m.															
19PG04	19	12	5.91 m	19	159		300	5.81 m	<div></div>						290		-75				VERTICAL STEM ENDS
25PG05	25	170	2.93 m	1	1961	280	2.37 m						280			200					TOP & BOTTOM TRANSVERSE
25PG06	25	42	12.41 m	1	2071	280	11.85 m						280			200					TOP & BOTTOM LONGITUDINAL
36PG07	36	106	6.40 m	2	5364	610	5.79 m						<div></div>								VERTICAL FOOTING INTO STEM
subtotal = 9859 kg																					
STEM																					
13PG01	13	791	1044	T9	821	160	774						110	110							FRONT TO BACK TIES
16PG08	16	26	8.53mAVG	14	344	7.1mAVG	200	500	200	550				150	150		150	150	800		HORIZ. STEM BOTTOM(2 OF EACH LENGTH)
						A VARIES FROM 6.85 m TO 7.3 m.															
16PG09	16	36	10.05mAVG	14	562	8.6mAVG	200	500	200	550				150	150		150	150	800		HORIZ. STEM MIDDLE(2 OF EACH LENGTH)
						A VARIES FROM 7.45 m TO 9.75 m.															
16PG10	16	36	1.72 m	17	96		480	760	480												STEM INTO PEDESTAL ANCHORAGE
25PG11	25	6	11.15 m	N16	266		550	183	9.68 m	183	550			527	527		142	142	9.90 m	100	TOP OF STEM
25PG12	25	35	1.58 m	2	220	410		760					410								TOP OF STEM
subtotal = 2309 kg																					
PEDESTALS																					
16PG13	16	2	5.00 m	T1	16	200	1.50 m	800	1.50 m	800				200	140						FASCIA PEDESTAL
16PG14	16	3	6.20 m	T1	29	200	2.10 m	800	2.10 m	800				200	140						INTERIOR PEDESTAL
subtotal = 45 kg																					
TOTAL MEDIAN PIER = 13 309 kg																					

NOAS-BUILT REVISIONS

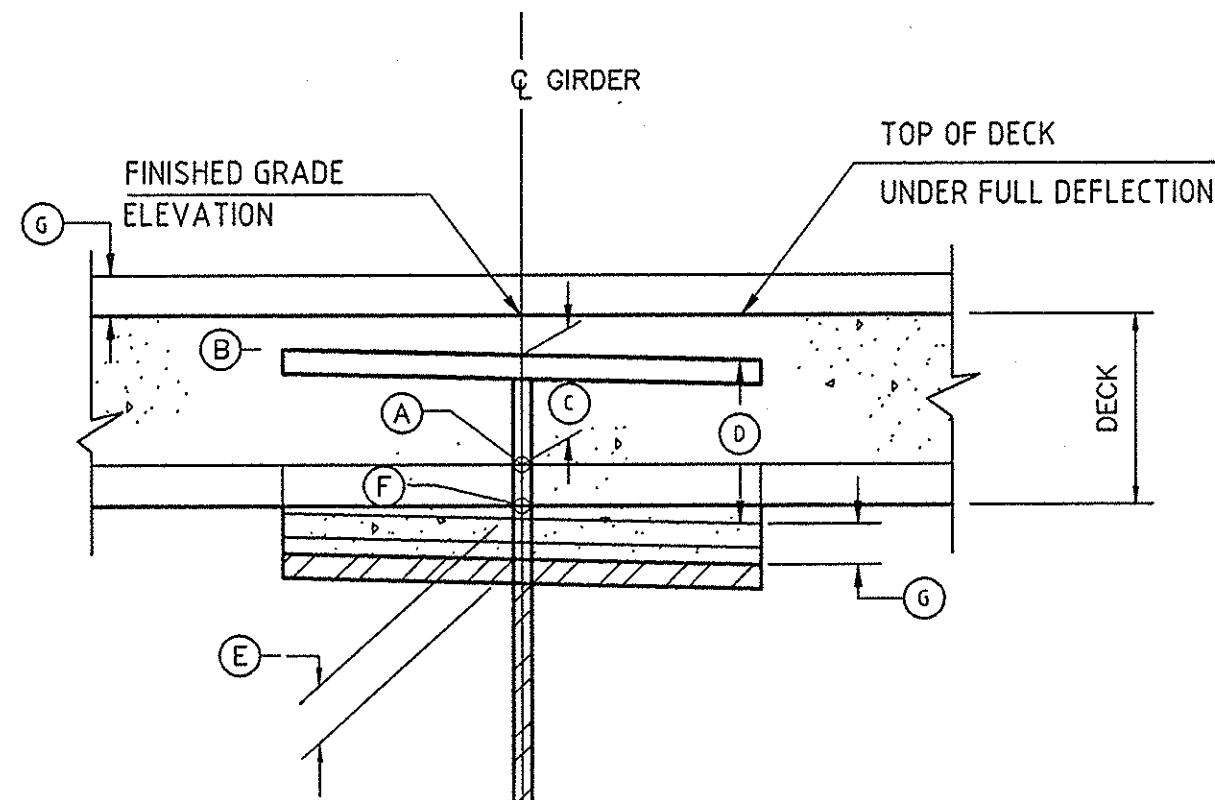
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DATE	DESCRIPTION	BY	SYM.
REVISIONS			
NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF MAINTENANCE AND ENGINE			

HAUNCH TABLE

HAUNCH TABLE																							
HAUNCH TABLE			SPAN 1										SPAN 2										
			Q BRGS. SOUTH ABUTMENT	0.1L ₁	0.2L ₁	0.3L ₁	0.4L ₁	0.5L ₁	0.6L ₁	0.7L ₁	0.8L ₁	0.9L	Q BRGS. PIER 1	0.1L	0.2L ₁	0.3L ₁	0.4L ₁	0.5L ₁	0.6L ₁	0.7L ₁	0.8L ₁	0.9L ₁	Q BRGS. NORTH ABUTMENT
GIRDER 1	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	157.280	157.321	157.358	157.390	157.418	157.440	157.458	157.470	157.478	157.482	157.483	157.482	157.478	157.470	157.458	157.440	157.418	157.390	157.358	157.321	157.280	GIRDER 1
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	152.226	157.301	157.364	157.411	157.440	157.454	157.453	157.440	157.439	157.433	157.429	157.440	157.453	157.451	157.449	157.439	157.419	157.389	157.342	157.282	157.215	
	C = (A) - (B) (m)	054	020	-006	-021	-022	-014	005	030	039	049	054	042	025	019	009	001	-001	001	016	039	065	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D)(m)	054	042	035	032	036	042	051	062	056	054	054	047	042	051	055	057	057	054	057	061	065	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	157.280	157.318	157.353	157.383	157.410	157.432	157.451	157.465	157.475	157.481	157.483	157.483	157.481	157.475	157.465	157.451	157.432	157.410	157.383	157.353	157.318	
GIRDER 2	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	157.325	157.366	157.403	157.435	157.463	157.485	157.503	157.515	157.523	157.527	157.528	157.527	157.523	157.515	157.503	157.485	157.463	157.435	157.403	157.366	157.325	GIRDER 2
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	157.266	157.340	157.402	157.451	157.481	157.494	157.495	157.485	157.486	157.479	157.479	157.489	157.502	157.502	157.502	157.494	157.472	157.435	157.388	157.329	157.269	
	C = (A) - (B) (m)	059	026	001	-016	-018	-009	008	030	037	048	049	038	021	013	001	-009	-009	000	015	037	056	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D)(m)	059	048	042	037	040	047	054	062	054	053	049	043	038	045	047	047	049	053	056	059	056	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	157.325	157.363	157.398	157.428	157.455	157.477	157.496	157.510	157.520	157.526	157.528	157.528	157.526	157.520	157.510	157.496	157.477	157.455	157.428	157.398	157.363	
GIRDER 3	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	157.370	157.411	157.448	157.480	157.508	157.530	157.548	157.560	157.568	157.572	157.573	157.572	157.565	157.560	157.548	157.530	157.508	157.480	157.448	157.411	157.370	GIRDER 3
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	157.309	157.381	157.443	157.492	157.524	157.540	157.544	157.539	157.534	157.527	157.522	157.530	157.540	157.539	157.539	157.532	157.509	157.473	157.424	157.369	157.305	
	C = (A) - (B) (m)	061	030	005	-012	-016	-010	004	021	034	045	051	042	025	021	009	-002	-001	007	024	042	065	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D)(m)	061	052	046	041	042	046	050	053	051	050	051	047	042	053	055	054	057	060	065	064	065	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	157.370	157.408	157.443	157.473	157.500	157.522	157.541	157.555	157.565	157.571	157.573	157.573	157.571	157.565	157.555	157.541	157.522	157.500	157.473	157.443	157.408	
GIRDER 4	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	157.325	157.366	157.403	157.435	157.463	157.485	157.503	157.515	157.523	157.527	157.528	157.527	157.523	157.515	157.503	157.485	157.463	157.435	157.403	157.366	157.325	GIRDER 4
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	157.266	157.341	157.405	157.456	157.488	157.504	157.505	157.492	157.489	157.479	157.474	157.481	157.489	157.489	157.489	157.484	157.463	157.426	157.382	157.326	157.264	
	C = (A) - (B) (m)	059	025	-002	-021	-025	-019	-002	023	034	048	054	046	034	026	014	001	000	009	021	040	061	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D)(m)	059	047	039	032	033	037	044	055	051	053	054	051	051	058	060	057	058	062	062	062	061	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	157.325	157.363	157.398	157.428	157.455	157.477	157.496	157.510	157.520	157.526	157.528	157.528	157.526	157.520	157.510	157.496	157.477	157.455	157.428	157.398	157.363	
GIRDER 5	(A) REQ'D. BOT. OF SLAB ELEV. AFTER DECK POUR	157.280	157.321	157.358	157.390	157.418	157.440	157.458	157.470	157.478	157.482	157.483	157.482	157.478	157.470	157.458	157.440	157.418	157.390	157.358	157.321	157.280	GIRDER 5
	(B) TOP OF STEEL ELEV. (FIELD MEASURE PRIOR TO DECK POUR).	157.221	157.297	157.361	157.412	157.444	157.455	157.459	157.449	157.446	157.436	157.428	157.432	157.439	157.435	157.439	157.438	157.414	157.381	157.338	157.283	157.224	
	C = (A) - (B) (m)	059	024	-003	-022	-026	-015	-001	021	032	046	055	050	039	035	019	007	004	009	020	038	056	
	(D) CONC. NON-COMPOSITE D.L. DEFL. (m)	0.0	0.022	0.041	0.053	0.058	0.056	0.046	0.032	0.017	0.005	0.0	0.005	0.017	0.032	0.046	0.056	0.058	0.053	0.041	0.022	0.0	
	(E) DEPTH OF HAUNCH REQ'D. = (C)+(D)(m)	059	046	038	031	032	041	045	053	049	051	055	055	056	067	065	063	062	062	061	060	056	
	(F) REQUIRED BOTTOM OF SLAB ELEV. AFTER S.D.L. APPLICATION	157.280	157.318	157.353	157.383	157.410	157.432	157.451	157.465	157.475	157.481	157.483	157.483	157.481	157.475	157.465	157.451	157.432	157.410	157.383	157.353	157.318	
		(G) DECK SURFACE CAMBER (A) - (F) (m) ABOVE PROPOSED GRADE (S.D.L. DEFL.)	0.0	0.003	0.005	0.007	0.008	0.008	0.007	0.005	0.003	0.001	0.0	0.001	0.003	0.005	0.007	0.008	0.008	0.007	0.005	0.003	0.0

NOTE: ALL DIMENSIONS AND ELEVATIONS ARE IN METERS.



GIRDER HAUNCH DETAIL

N.T.S.

LEGEND

- INITIAL POSITION (BEAM D.L. ONLY)
- INTERMEDIATE POSITION (BEAM + DECK D.L.)
- FINAL POSITION (TOTAL D.L. + S.D.L.)

NOTES:

- (A) & (F) TAKEN AT CL OF GIRDER.
- (E) - GIRDER HAUNCH, IS TAKEN AT CL OF GIRDER.

HAUNCH TABLE COMPLETED

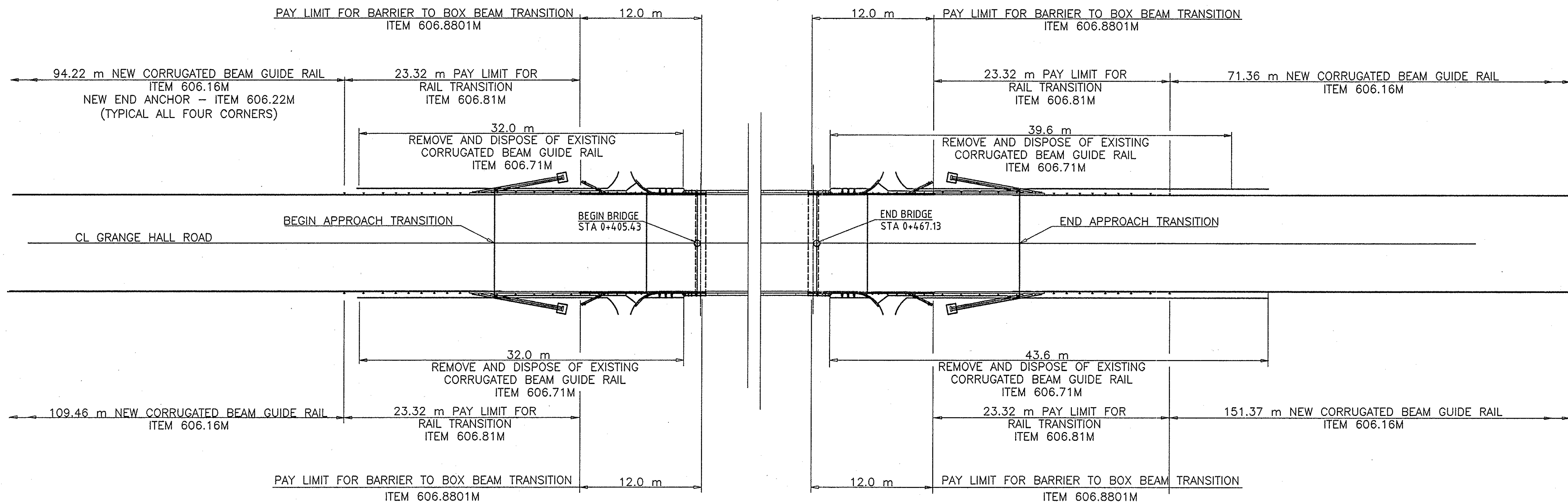
DATE	DESCRIPTION	BY	SYM.

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	
TITLE OF PROJECT	5 BRIDGE REPLACEMENTS
LOCATION OF PROJECT	MP 324.79 GRANGE HALL ROAD
TITLE OF DRAWING	GIRDER HAUNCH TABLE



CONTRACT NUMBER:	TAS 98-8B
DATE:	3/98
DRAWING NUMBER:	F12

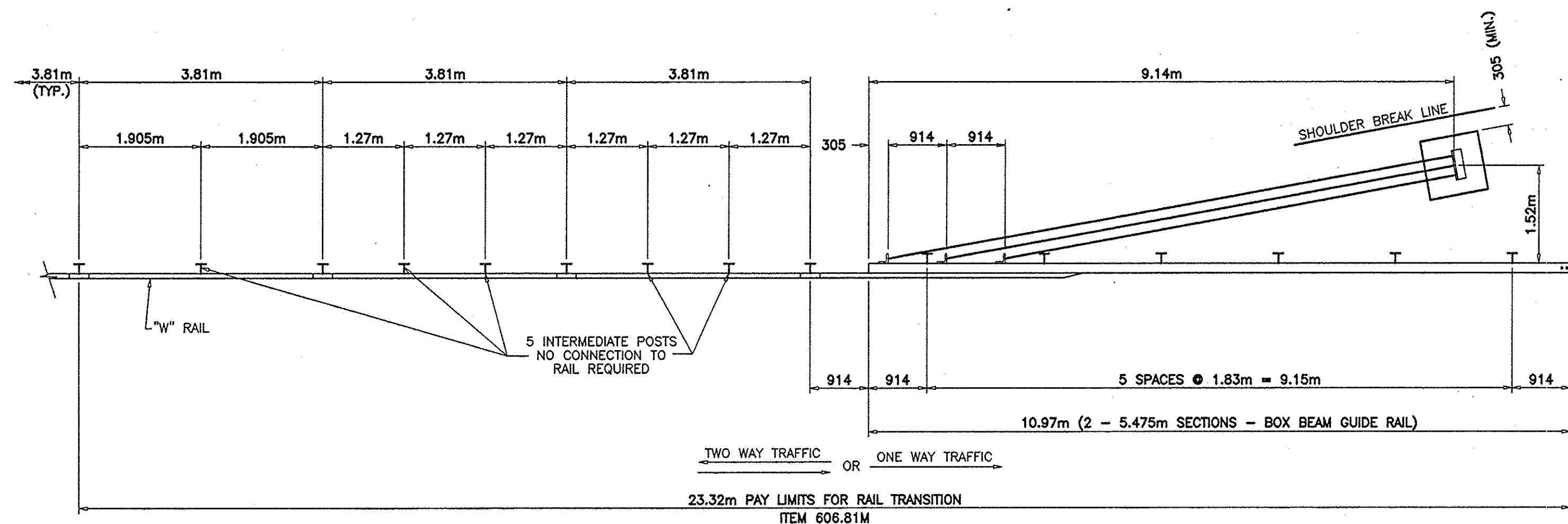


EXISTING GUIDE RAIL REMOVAL AND NEW GUIDE RAIL INSTALLATION

SCALE: 1 : 250

NOTES

- SEE DRAWINGS C21-C23 FOR BOX BEAM TO BARRIER TRANSITION DETAILS.
- WINGWALLS NOT SHOWN.



GUIDE RAIL TRANSITION CORRUGATED BEAM TO BOX BEAM (ONE OR TWO WAY OPERATION)

N.T.S.

- NOTES:
- SUBSTITUTE THIS DETAIL FOR THE ONE SHOWN ON STANDARD SHEET 606-15R1 FOR ITEM 606.81M.
 - ON STANDARD SHEET 606-15R1 REVISE THE NOTE IN UPPER RIGHT THIRD OF THIS SHEET TO READ "TYPICAL CABLE ANCHOR, SEE DETAIL "F" ON THE CURRENT STANDARD SHEET TITLED CABLE GUIDE RAILING. SPRING COMPENSATORS ARE NOT REQUIRED IN THIS TRANSITION. ALSO ADD THE FOLLOWING DIMENSION TO ANGLE IN DETAIL "C": L178x102x9.5

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.
12/10	KUP		

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
MP 324.79
GRANGE HALL ROAD

TITLE OF DRAWING
EXISTING AND PROPOSED
GUIDE RAIL LAYOUT



CONTRACT NUMBER:

TAS 98-8B

DATE:

3/98

DRAWING NUMBER:

F13

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

DESIGNED BY: F15 BRIDGES MP 324.79 GUIDRAIL

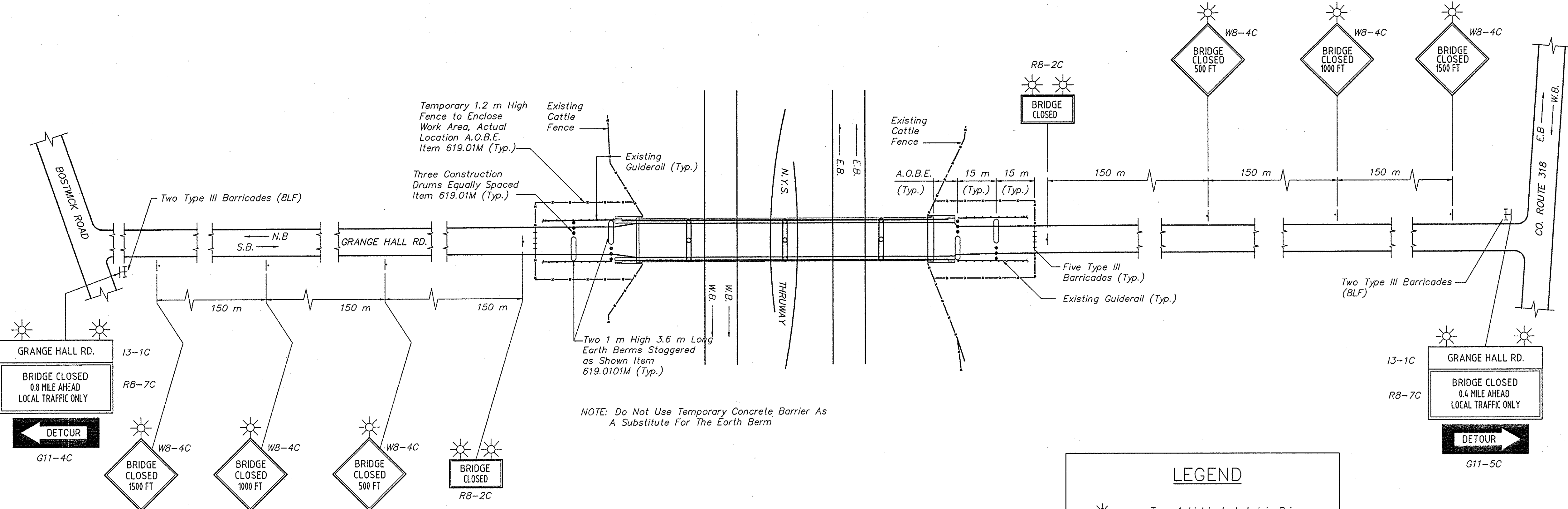
CHECKED BY:

DRAFTED BY:

DESIGNED BY:

IN CHARGE OF: *Robert Coulter*

IN CHARGE OF: *Richard A. Smith* DESIGNED BY: *[Signature]* DRAFTED BY: *[Signature]* CHECKED BY: *[Signature]* FILE NO. 324791.3247CLOS



BRIDGE CLOSURE PLAN
N.T.S.

LEGEND

- Type A Lights Included in Price for Item 619.02
- Type B Flashers Included in Price for Item 619.02
- Plastic Drums (Item 619.01)
- Type III Barricade with Type B Flashers (Item 619.0413 and 619.0502)
- Signs (Item 619.02)
- 3 Foot High Earth Berm Paid Under Item 619.01
- Main Route of Traffic

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
M.P. 324.79
GRANGE HALL ROAD

TITLE OF DRAWING
BRIDGE CLOSURE PLAN



CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
F14

NOTE: ALL DIMENSIONS ARE SHOWN IN MILLIMETERS UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE SHOWN IN METERS.

F:\BRIDGES\COMMON\SS2TDR

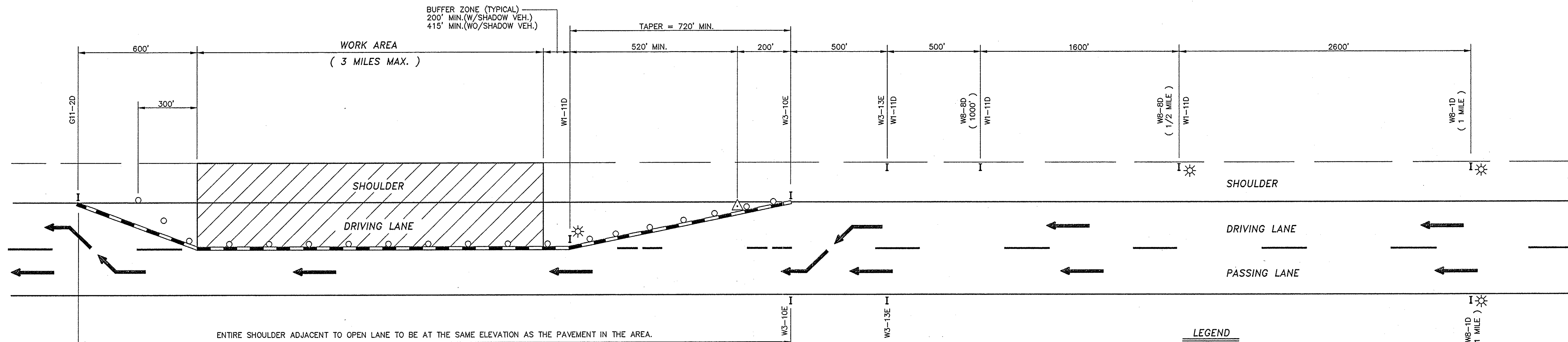
CHECKED BY:

DRAFTED BY:

DESIGNED BY:

IN CHARGE OF:

108
113



PLAN



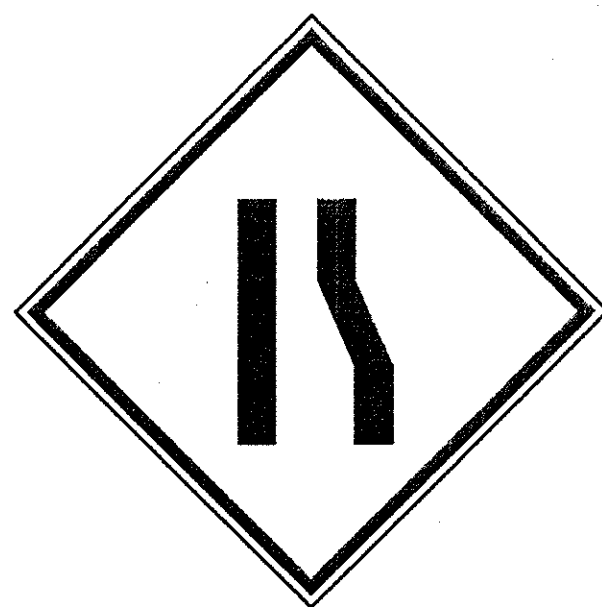
W8-1D
48" x 48"



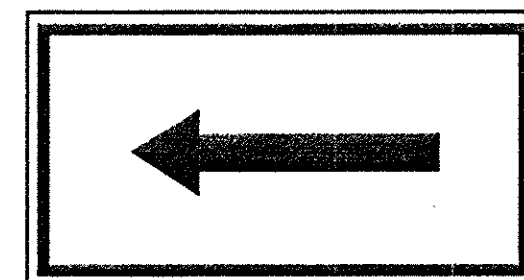
W8-8D
48" x 48"



W8-8D
48" x 48"



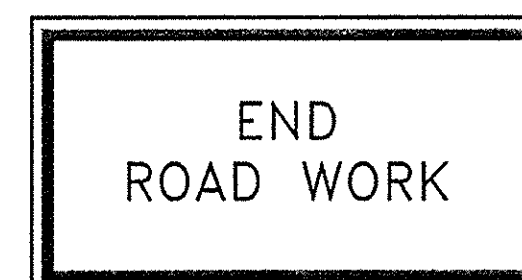
W3-10E
48" x 48"



W1-11D
48" x 24"



W8-22E
48" x 48"



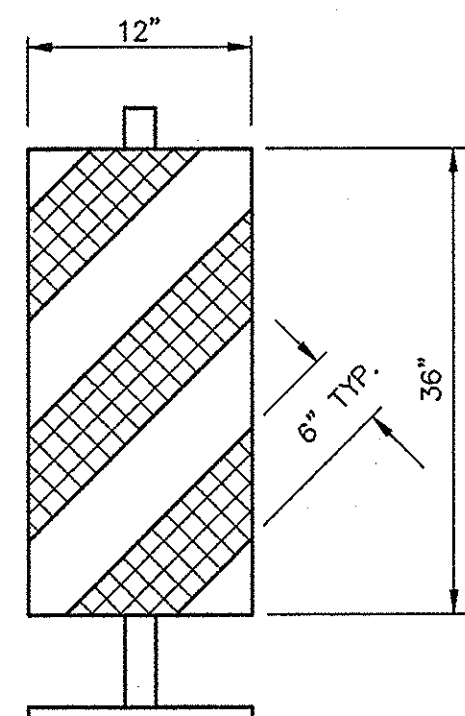
G11-2D
48" x 24"



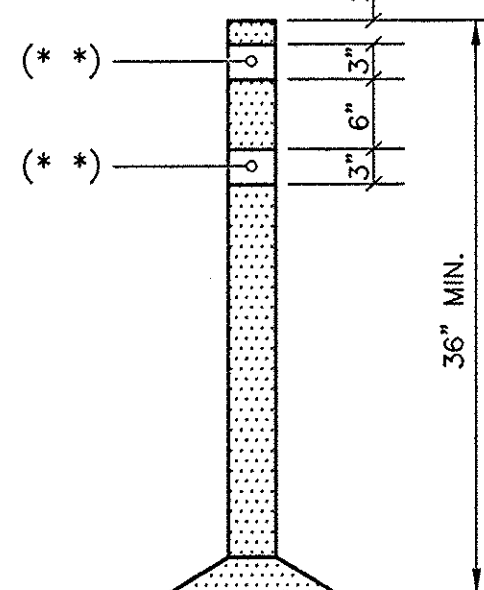
W3-13E
48" x 48"

LEGEND

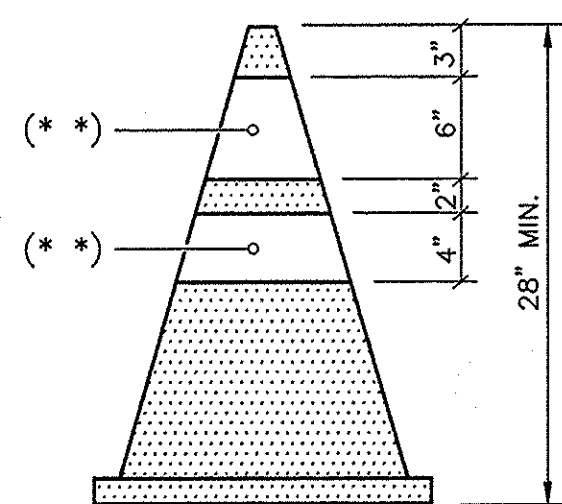
- WHITE REFLECTORIZED SHEETING, CLASS B (3M, 3800 SERIES OR EQUAL)
- ORANGE REFLECTORIZED SHEETING, CLASS B (3M, 3800 SERIES OR EQUAL)
- NON-REFLECTORIZED ORANGE
- (*) (*) APPROVED REFLECTORIZED WHITE BAND OR COLLAR (CLASS B OR C) -REQUIRED FOR NIGHT USE.



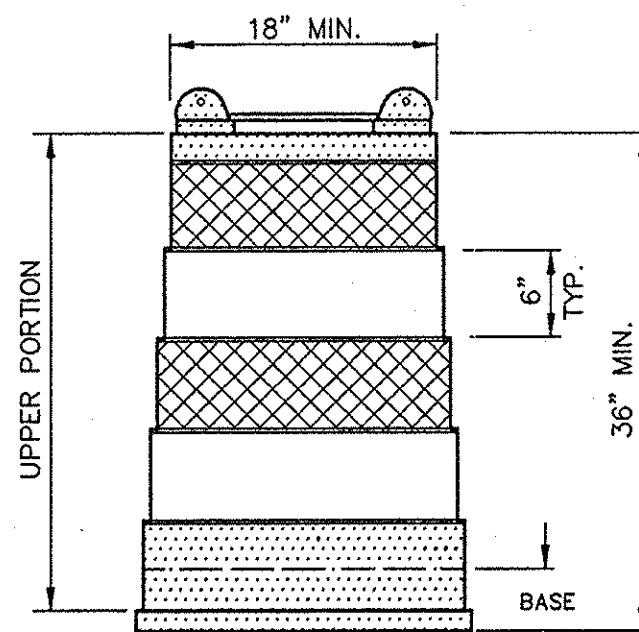
VERTICAL PANEL



TUBULAR MARKER



CONE



PLASTIC DRUM

(OPTIONAL DEVICES)

TRAFFIC CONTROL DEVICES

NOTES:

- ALL SIGNS MAY BE FOUND IN THE NEW YORK STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ALL "W" SERIES SIGNS SHALL BE BLACK ON FLUORESCENT ORANGE. ALL REFLECTORIZED SIGN BACKGROUNDS SHALL BE CLASS "B" OR "C" REFLECTIVE SHEETING.
- SIGN SUPPORTS SHALL RESIST OVERTURNING IN WINDS AND PROVIDE A MINIMUM MOUNTING HEIGHT OF 5 FEET TO THE SIGN BOTTOM. SIGNS SHALL BE PLACED AT OR AS NEAR AS PRACTICABLE TO THE LOCATIONS SHOWN. LATERAL PLACEMENT OF SIGNS SHALL CONFORM TO SECTIONS 201.5 AND/OR 301.2 OF THE MUTCD.
- FLAGGERS ARE TO BE PROVIDED AND LOCATED IN THE PATTERN AS DIRECTED BY THE ENGINEER. WHEN USED, A W8-22E SIGN WILL BE PLACED NOT CLOSER THAN 500 FEET NOR FURTHER THAN 2600 FEET AHEAD OF THE FLAGGER.
- ALL FLASHING LIGHTS SHOWN ON THIS SHEET SHALL BE PLACED IN OPERATION FROM 1/2 HOUR AFTER SUNSET TO 1/2 HOUR BEFORE SUNRISE OR AS ORDERED BY THE ENGINEER.
- FLASHING ARROWBOARDS SHALL CONFORM TO SECTION 294.45 OF THE MUTCD. THE MINIMUM SIZE SHALL BE TYPE C (96" X 48") FULL ARROW FLASH. NO CHEVRONS NOR SEQUENTIAL ARROW FLASH WILL BE ALLOWED.
- THESE PLANS SHALL BE MODIFIED TO LEFT LANE CLOSURE(S) BY CHANGING SIGNS W1-11D TO W1-12D, W8-8D TO W8-7D, W8-11D TO W8-10D, W3-10E TO W3-9E AND W3-13E TO W3-12E. THE LEFT LANE CLOSURE SHALL BE THE MIRROR IMAGE OF THE RIGHT LANE CLOSURE.
- THE TRAFFIC SUPERVISOR WILL APPROVE THE CONDITION OF ALL TRAFFIC CONTROL DEVICES PRIOR TO USE, AND WILL REVIEW THE PROPOSED TRAFFIC CONTROL PATTERN (FOR PRECISE DEVICE POSITIONING) PRIOR TO INSTALLATION.
- EXISTING PAVEMENT MARKINGS SHALL BE MAINTAINED BY THE CONTRACTOR WITHIN THE PROJECT LIMITS. IF THE CONTRACTOR'S OPERATIONS IN ANY WORK AREA WILL EXCEED A PERIOD OF 2 WEEKS, OR IF DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL COMPLETELY REMOVE PORTIONS OF THE EXISTING MARKINGS AND INSTALL TEMPORARY MARKINGS AS DETAILED ON THIS SHEET. TEMPORARY MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD, CONTRACT PLANS AND/OR PROPOSAL.
- WHEN ALL WORK IS COMPLETED IN THE WORK AREA, OR AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE THE TEMPORARY MARKINGS AND RESTORE THE EXISTING MARKINGS.
- IF THE CONTRACTOR'S OPERATION IN ANY WORK AREA WILL EXCEED FOUR DAYS, OR EXTEND INTO A WEEKEND, OR IF ORDERED BY THE ENGINEER, DRUMS SHALL BE SUBSTITUTED FOR CONES IN THE ASSOCIATED TRAFFIC PATTERN. THE DRUMS SHALL BE SPACED AT 70 FOOT INTERVALS ON TAPERS AND 120 FOOT INTERVALS ON TANGENT SECTIONS, OR A.O.B.E. (NOTE - DRUMS MAY BE SUBSTITUTED FOR CONES AT ANY TIME PROVIDED THE ABOVE MAXIMUM SPACING IS MAINTAINED). VERTICAL PANELS AND/OR TUBULAR MARKERS MAY BE SUBSTITUTED FOR CONES WITH THE APPROVAL OF THE ENGINEER.

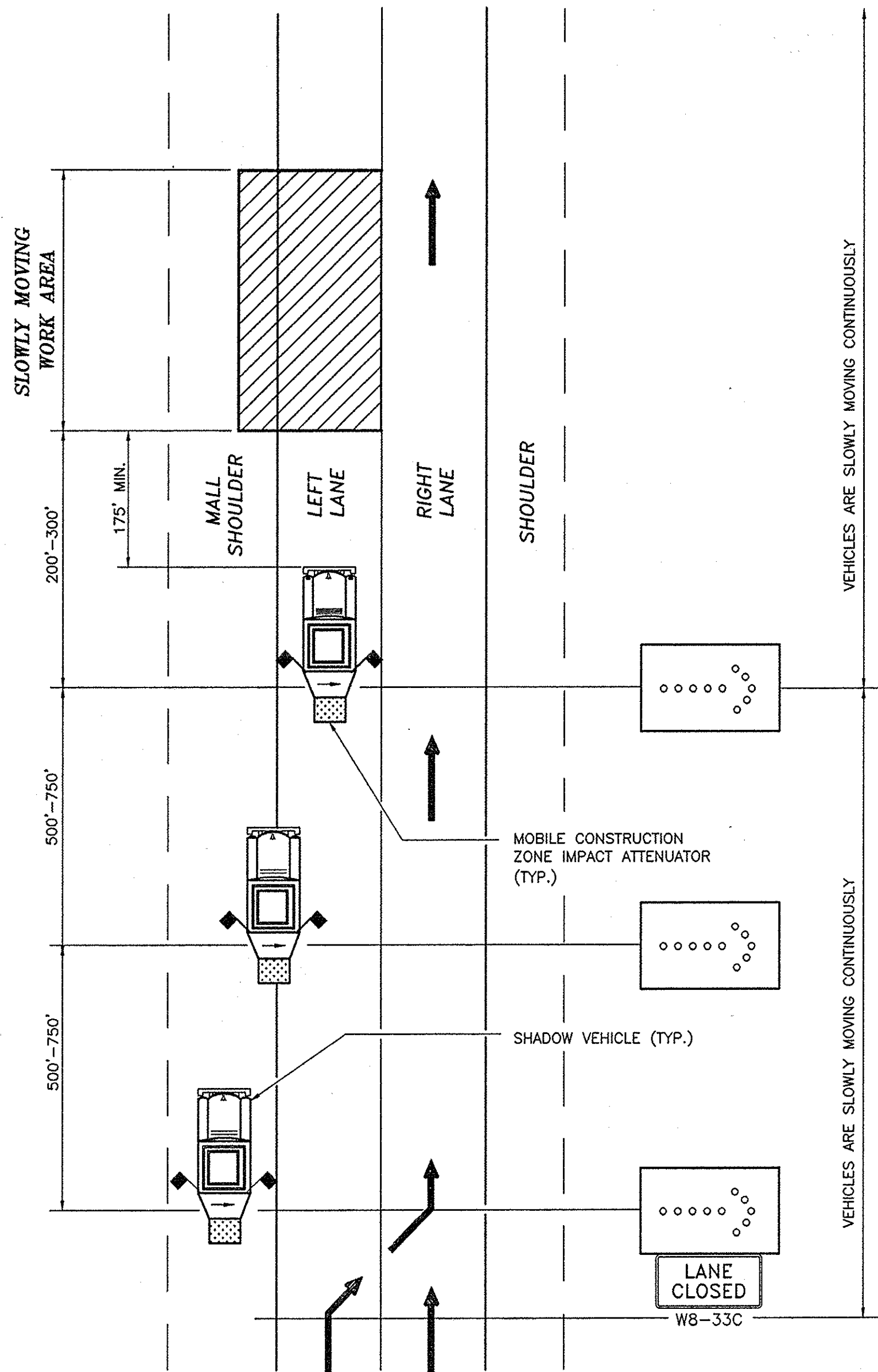
NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM

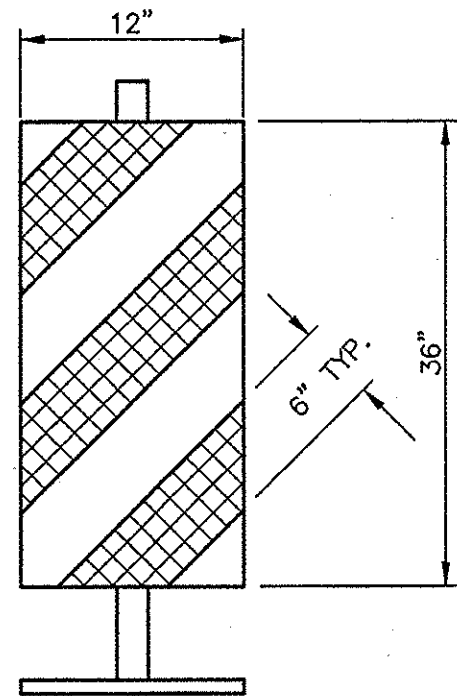
REVISIONS

NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209			
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS			
LOCATION OF PROJECT SENECA COUNTY			
TITLE OF DRAWING TWO LANE THRUWAY TRAFFIC CONTROL PLAN			
	CONTRACT NUMBER: TAS 98-8B		
	DATE: 7/1/94		
	DRAWING NUMBER: MPT1		

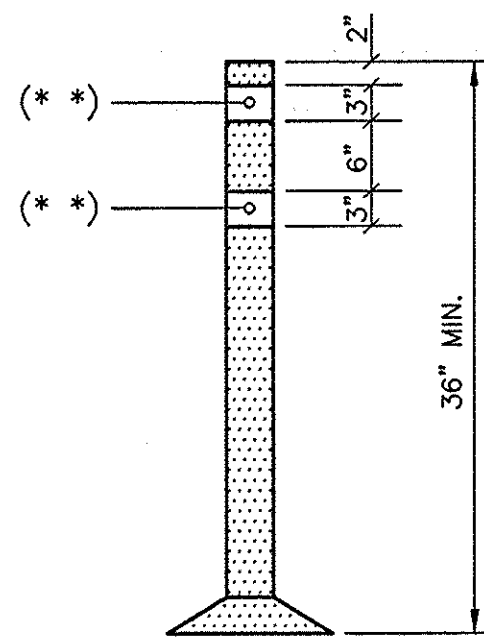
DESIGNED BY: IN CHARGE OF: DRAFTED BY: CHECKED BY: F:\BRIDGES\COMMON\SSMOPPER



MOVABLE TRAFFIC CONTROL PLAN FOR SINGLE LANE CLOSURE

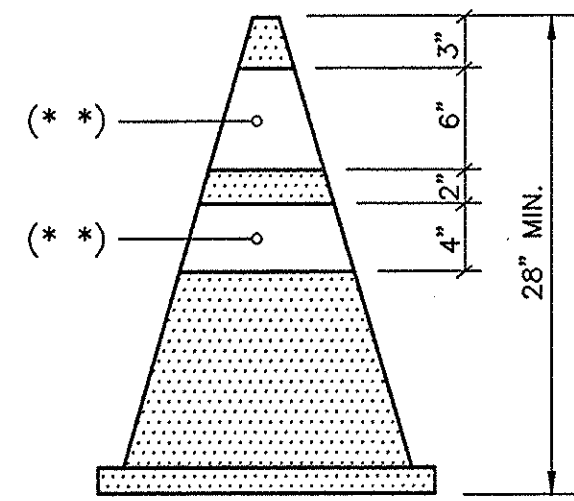


VERTICAL PANEL

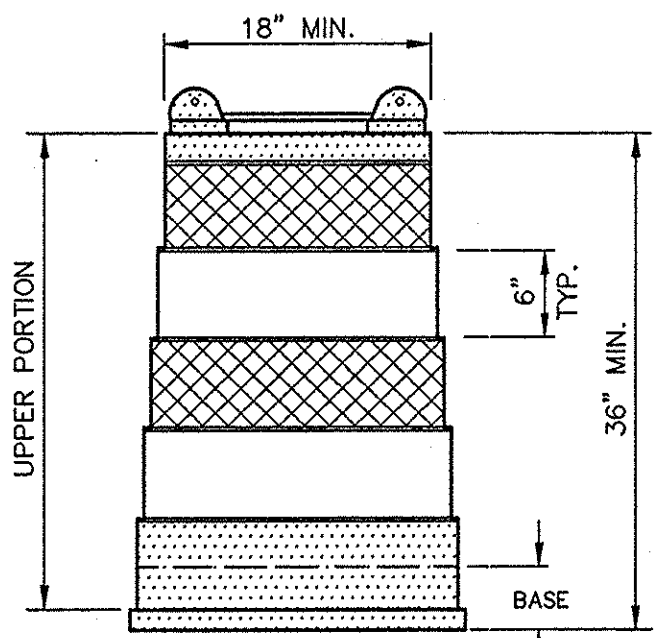


TUBULAR MARKER

(OPTIONAL DEVICES)



CONE

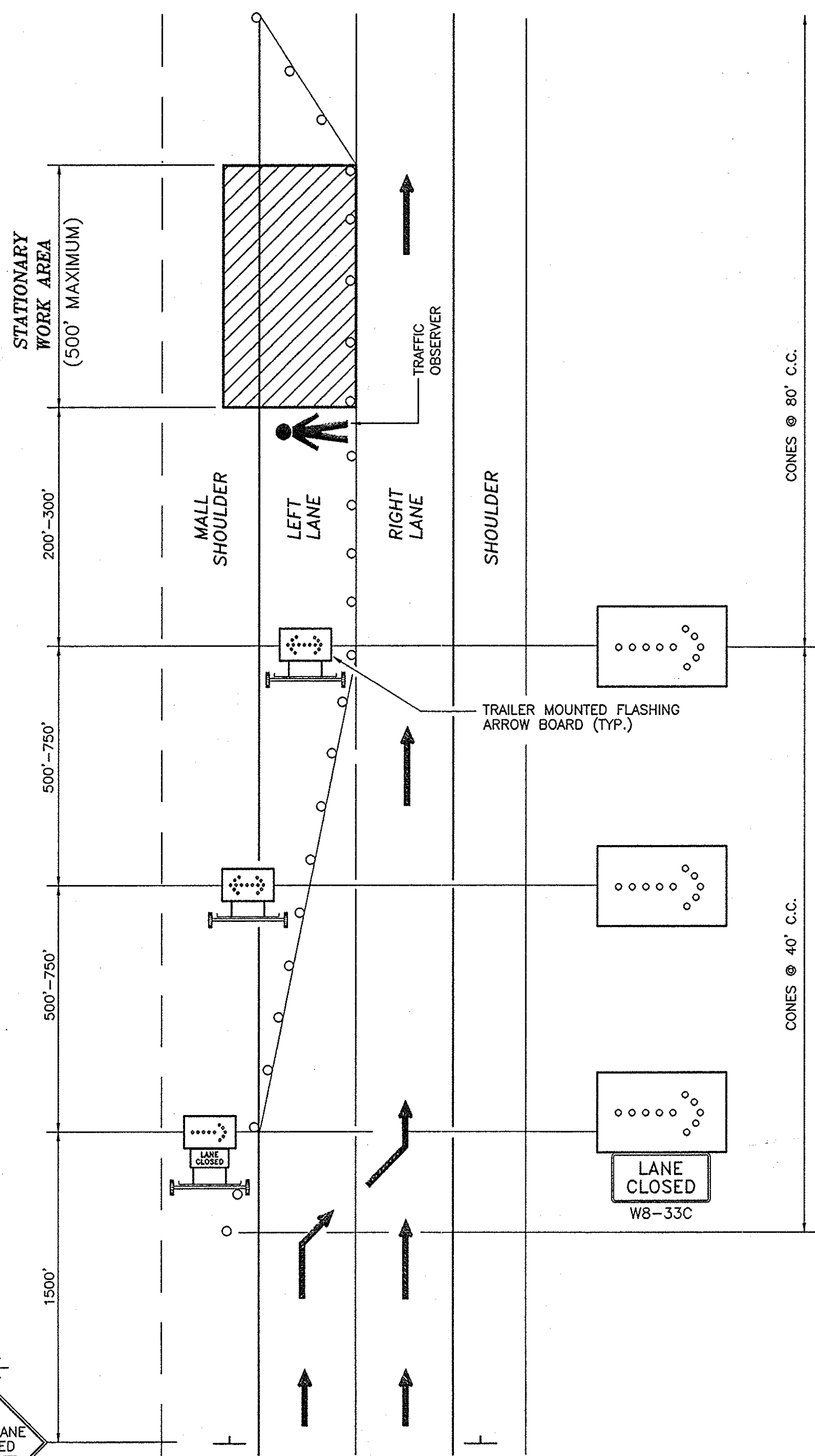


PLASTIC DRUM

TRAFFIC CONTROL DEVICES (2)



W8-7D (2 REQ'D)



STATIONARY TRAFFIC CONTROL PLAN FOR SHORT TERM LEFT LANE CLOSURE (1)

- FOOTNOTES
- TRUCKS SHALL NOT BE PERMITTED TO REMAIN ATTACHED TO THE TRAILERS WITHIN THE CLOSURE SET-UP.
 - OPTIONAL DEVICES MAY BE SUBSTITUTED FOR CONES WITH THE APPROVAL OF THE ENGINEER.

- LEGEND
- WHITE REFLECTORIZED SHEETING, CLASS B (3M, 3800 SERIES OR EQUAL)
 - ORANGE REFLECTORIZED SHEETING, CLASS B (3M, 3800 SERIES OR EQUAL)
 - NON-REFLECTORIZED ORANGE
 - APPROVED REFLECTORIZED WHITE BAND OR COLLAR (CLASS B OR C) -REQUIRED FOR NIGHT USE.

NOTES:
FOR MOBILE AND STATIONARY (SHORT TERM)
TRAFFIC CONTROL PLAN:

- THESE PLANS ARE TO BE UTILIZED ONLY WHEN AUTHORIZED BY THE ENGINEER.
- TRUCK MOUNTED FLASHING ARROW BOARD SHALL CONFORM TO SECTION 294.5 OF M.U.T.C.D. MINIMUM SIZE SHALL BE TYPE "B" 54" x 30" FULL ARROW FLASH ONLY (TRAILER MOUNTED ARROW BOARDS SHALL BE TYPE "C" 96" x 48"); NO CHEVRONS NOR SEQUENTIAL ARROW FLASH WILL BE ALLOWED.
- WHERE THE PASSING LANE IS TO BE CLOSED, THE FIRST UNIT IS TO BE LOCATED IN THE MALL, THE SECOND STRADDLES THE MALL AND LEFT LANE AND THE THIRD UNIT IS IN THE LEFT LANE. THE UNITS WILL DISPLAY FLASHING RIGHT ARROWS.
- WHERE THE DRIVING LANE IS TO BE CLOSED, THE FIRST UNIT IS TO BE LOCATED ON THE RIGHT SHOULDER, THE SECOND STRADDLES THE SHOULDER AND DRIVING LANE AND THE THIRD UNIT IS IN THE DRIVING LANE. THE UNITS WILL DISPLAY FLASHING LEFT ARROWS.
- THE MINIMUM HEIGHT OF FLASHING ARROW BOARDS SHALL BE 5'- 0" FROM THE PAVEMENT TO THE BOTTOM OF THE PANEL.
- THE MOBILE CONSTRUCTION ZONE IMPACT ATTENUATOR SHALL CONFORM TO THE REQUIREMENTS OF SECTION 712-06 OF THE STANDARD SPECIFICATIONS.
- THE SHADOW VEHICLE SHALL CONFORM TO THE REQUIREMENTS OF SECTION 619-1.02N OF THE STANDARD SPECIFICATIONS.
- THE STATIONARY (SHORT TERM) LANE CLOSURE MAY BE UTILIZED AT ONE WORK AREA, ONCE A WORKING DAY, FOR A DURATION OF 2 HOURS OR LESS.
- THE CONTRACTOR MAY USE THE MOBILE LANE CLOSURE PLAN FOR A SHORT TERM STATIONARY CLOSURE PROVIDING THAT TRAFFIC CONES AND SIGNING ARE INCLUDED AS DETAILED IN THE STATIONARY PLAN.
- THE STATIONARY SHORT TERM LEFT LANE CLOSURE MAY BE MODIFIED TO A RIGHT LANE CLOSURE BY REPLACING THE W8-7D SIGN WITH A W8-8D PANEL. THE RIGHT LANE CLOSURE WILL OTHERWISE BE A MIRROR IMAGE OF THE LEFT LANE CLOSURE SIGN.
- THE W8-7D OR W8-8D PANELS MUST BE SUPPLEMENTED AS SHOWN WITH HIGH INTENSITY FLASHERS.
- THE "LANE CLOSED" SIGN SHALL BE MOUNTED BELOW THE FLASHING ARROW-BOARD ON THE VEHICLE SHOWN.
- ALL "W" SERIES SIGNS SHALL BE BLACK ON FLUORESCENT ORANGE. ALL REFLECTORIZED SIGN BACKGROUNDS SHALL BE CLASS "B" OR "C" REFLECTIVE SHEETING.

LEGEND

- MOBILE CONSTRUCTION ZONE IMPACT ATTENUATOR
- TRAFFIC CONE
- FLASHING ARROW BOARD - SHADOW VEHICLE MOUNTED.
- FLASHING ARROW BOARD - TRAILER MOUNTED.
- FLASHING LIGHTS (LOW INTENSITY FOR NIGHT USE OR A.O.B.E.)

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
SENECA COUNTY

TITLE OF DRAWING
MOVABLE AND SHORT TERM
LANE CLOSURE

CONTRACT NUMBER:
TAS 98-8B

DATE:
7/1/94

DRAWING NUMBER:
MPT2

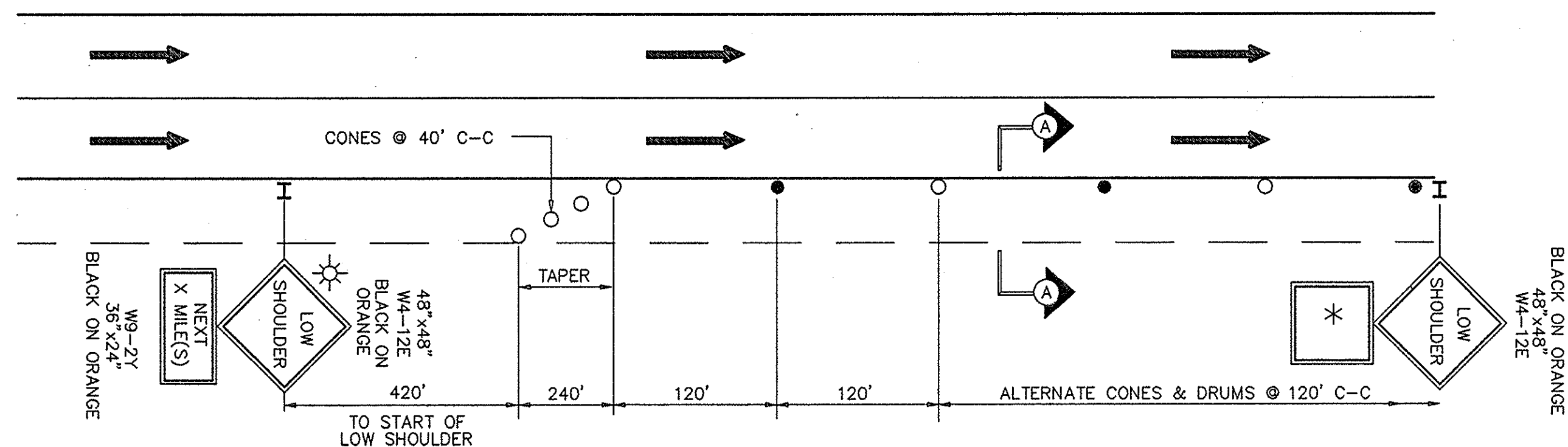
F-1 BRIDGES COMMON (SMPR)

CHECKED BY:

DRAFTED BY:

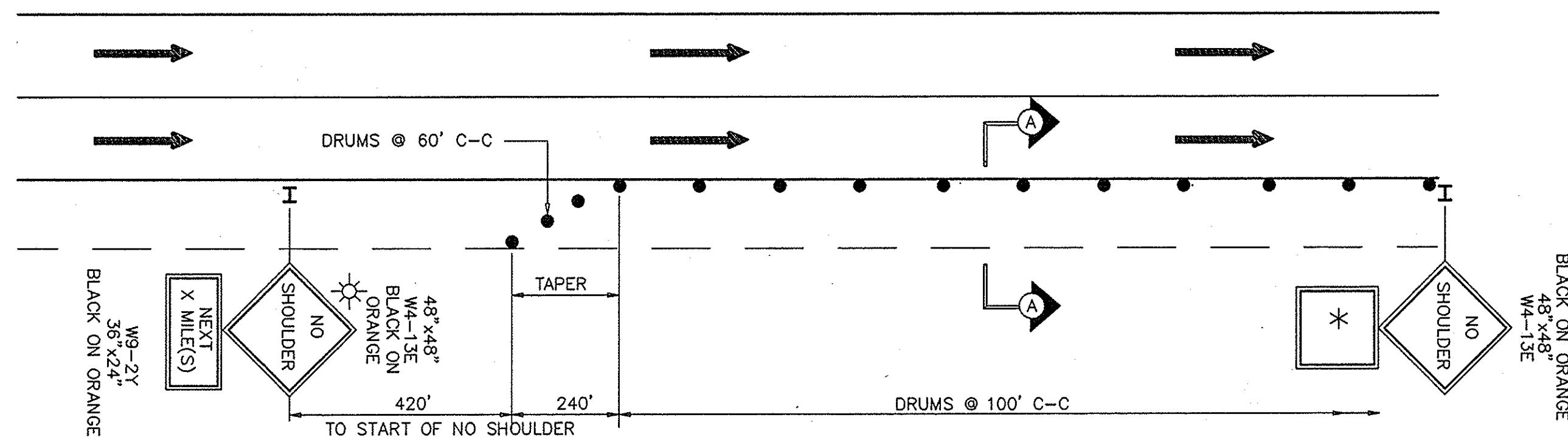
DESIGNED BY:

IN CHARGE OF:



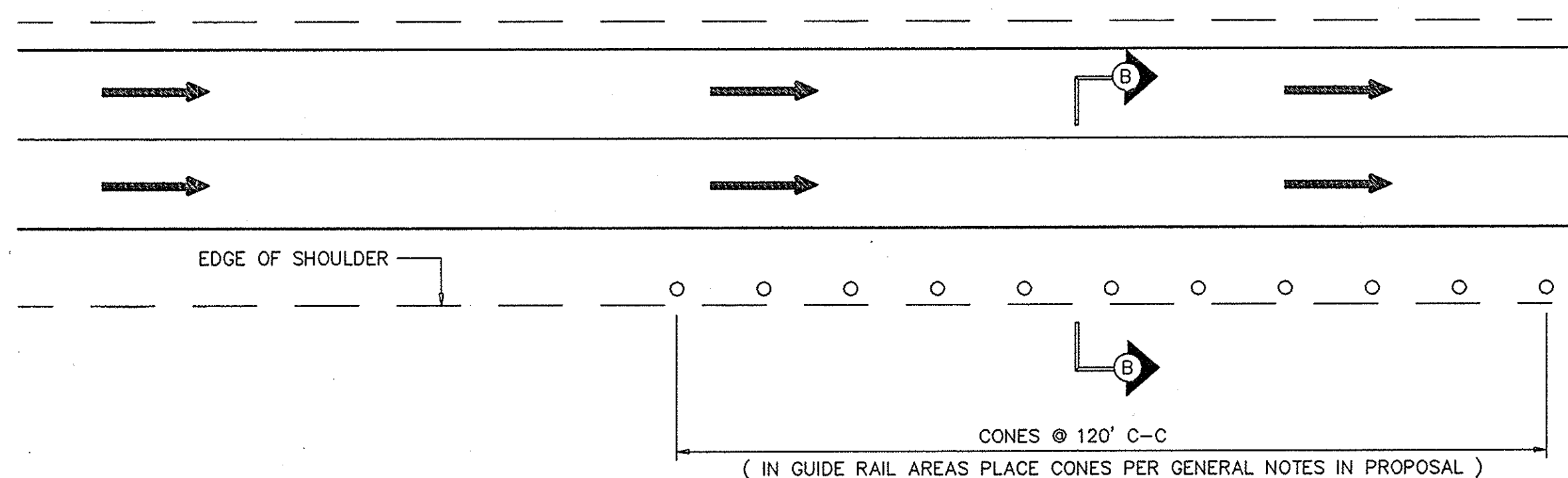
TRAFFIC CONTROL PLAN IN AREAS WITH A SHOULDER DROP OF 1 1/2 INCHES TO 4 INCHES

(*) W9-2Y SIGN IS REQUIRED EVERY 1/2 MILE UNLESS WITHIN 1,000' OF END OF SECTION
NOTE: REPEAT W4-12E SIGN EVERY 1,000'

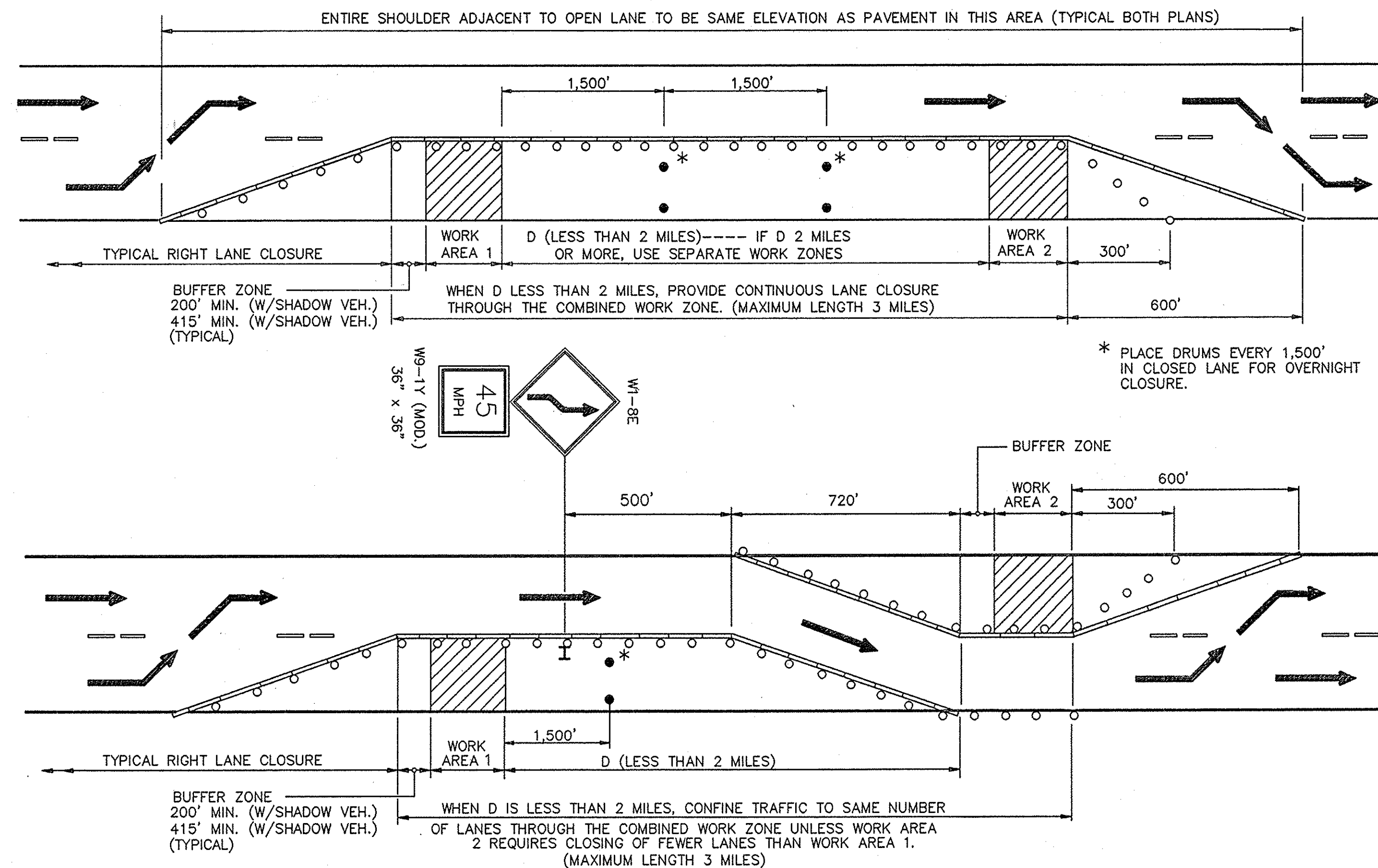
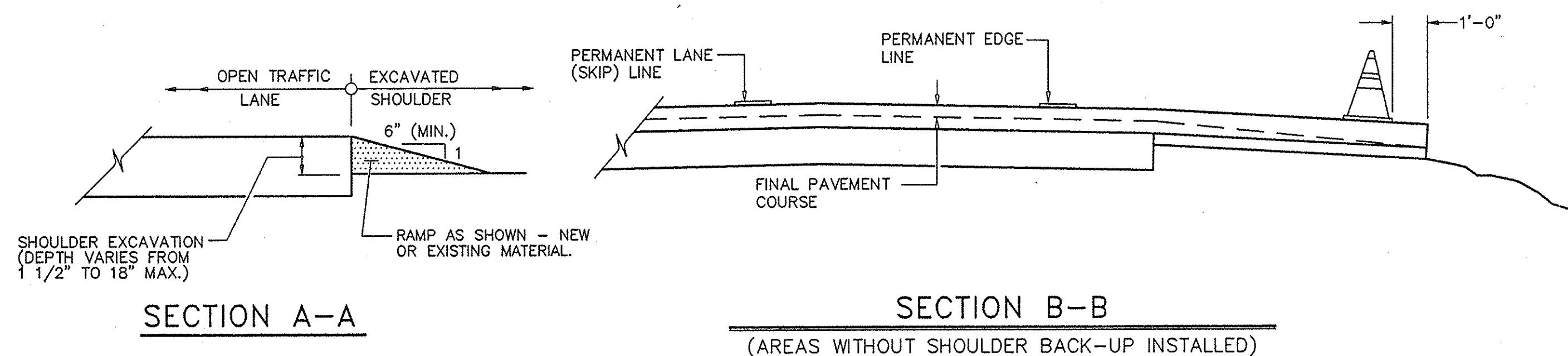


TRAFFIC CONTROL PLAN IN AREAS WITH A SHOULDER DROP OF MORE THAN 4 INCHES AND LESS THAN 18 INCHES

NOTE: REPEAT W4-13E SIGN EVERY 1,000 FEET.



TRAFFIC CONTROL PLAN IN AREAS WITH FINAL PAVEMENT COURSE PLACED AND PERMANENT PAVEMENT DELINEATION INSTALLED WITH DROP AT EDGE OF SHOULDER

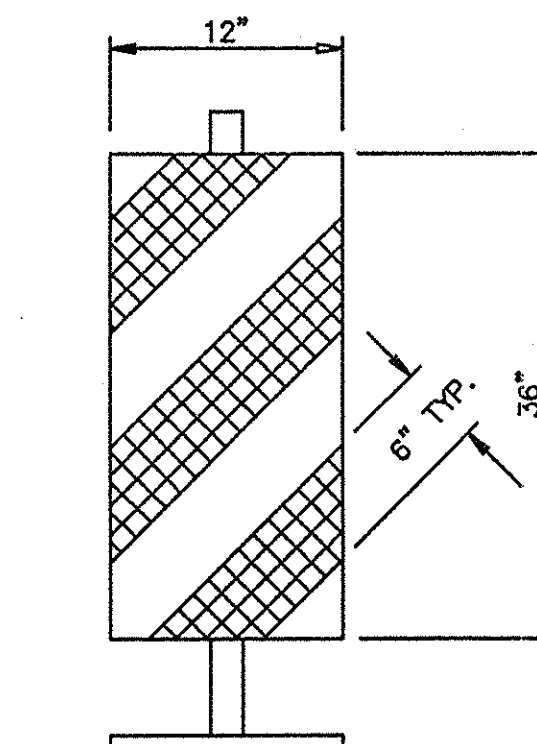


SUCCESSIVE WORK ZONES - TWO LANE SECTIONS (THREE LANE SIMILAR)

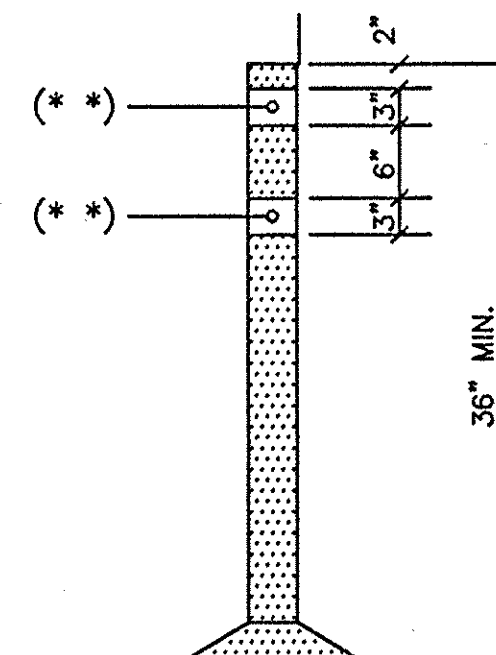
LEGEND

- WHITE REFLECTORIZED SHEETING, CLASS B (3M, 3800 SERIES OR EQUAL)
- ORANGE REFLECTORIZED SHEETING, CLASS B (3M, 3800 SERIES OR EQUAL)
- NON-REFLECTORIZED ORANGE
- (*) APPROVED REFLECTORIZED WHITE BAND OR COLLAR (CLASS B OR C) -REQUIRED FOR NIGHT USE.

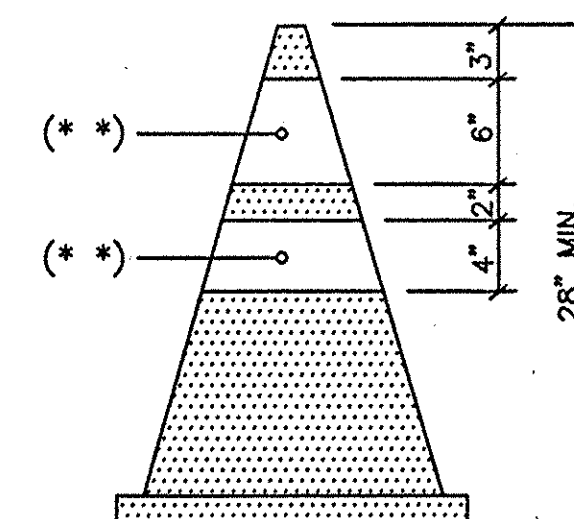
(+) OPTIONAL DEVICES MAY BE SUBSTITUTED FOR CONES WITH THE APPROVAL OF THE ENGINEER.



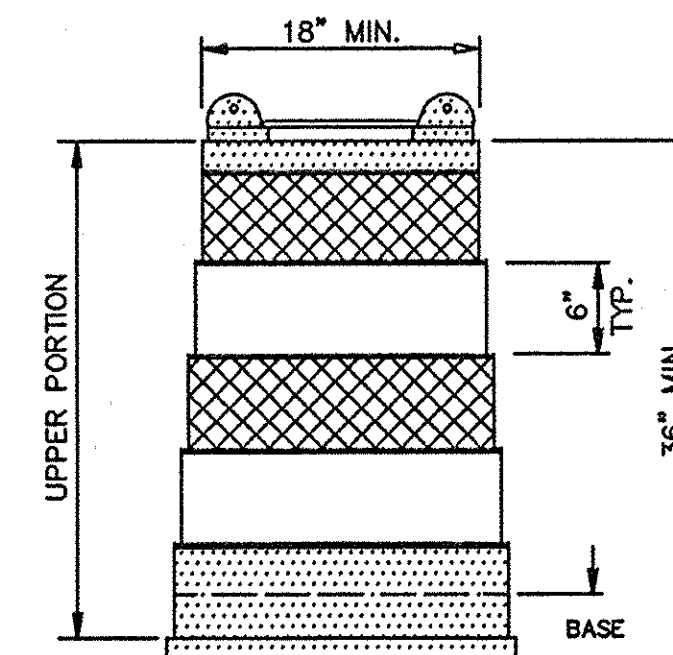
VERTICAL PANEL



TUBULAR MARKER



CONE



PLASTIC DRUM

(OPTIONAL DEVICES) (+)

TRAFFIC CONTROL DEVICES

NOTE "A"

EXISTING PAVEMENT MARKINGS SHALL BE MAINTAINED BY THE CONTRACTOR WITHIN PROJECT LIMITS. IF CONTRACTOR'S OPERATIONS IN ANY WORK AREA WILL EXCEED A PERIOD OF 2 WEEKS, OR AS DIRECTED BY THE ENGINEER, CONTRACTOR SHALL COMPLETELY REMOVE PORTIONS OF EXISTING MARKINGS AND INSTALL TEMPORARY MARKINGS AS DETAILED ABOVE. TEMPORARY MARKINGS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
WHEN ALL WORK IS TO BE COMPLETED IN THE WORK AREA, OR AS DIRECTED BY THE ENGINEER, THE CONTRACTOR SHALL REMOVE THE TEMPORARY MARKINGS AND RESTORE THE EXISTING MARKINGS.

NOTES FOR SHOULDER EXCAVATION PROTECTION:

THE DISTANCE BETWEEN THE W4-12E OR W4-13E SIGNS SHALL NOT EXCEED ONE HALF MILE. USE W9-2Y ON FIRST SIGN TO NEAREST HALF MILE WHEN THE AREA BEING PROTECTED EXCEEDS ONE HALF MILE IN LENGTH. ONLY THE LEFT OR RIGHT SHOULDER MAY BE WORKED ON AT ONE TIME.
DRUMS AND CONES SHALL BE PLACED AND MAINTAINED SO THAT AT LEAST TWO THIRDS OF THEIR HEIGHT IS EXPOSED ABOVE THE PAVEMENT.
IF THE DEPTH OF EXCAVATION EXCEEDS 18" THE ADJACENT LANE SHALL REMAIN CLOSED.
TYPICAL PLAN FOR RIGHT SHOULDER SHOWN. LEFT SHOULDER PROTECTION IS SAME DETAIL.
EXCAVATED SHOULDER TO BE RAMPED DOWN (SECTION A-A) DURING NON-WORK HOURS.

LEGEND

- TRAFFIC CONE
- DRUM
- FLASHING LIGHT, LOW INTENSITY, FOR NIGHT USE OR A.O.B.E.
- SIGN (ALL "W" SERIES SIGNS TO BE BLACK ON ORANGE)
- REMOVAL OF EXISTING PAVEMENT MARKINGS DURING CONSTRUCTION
- TEMPORARY PAVEMENT MARKING FOR CONSTRUCTION (SEE NOTE A)

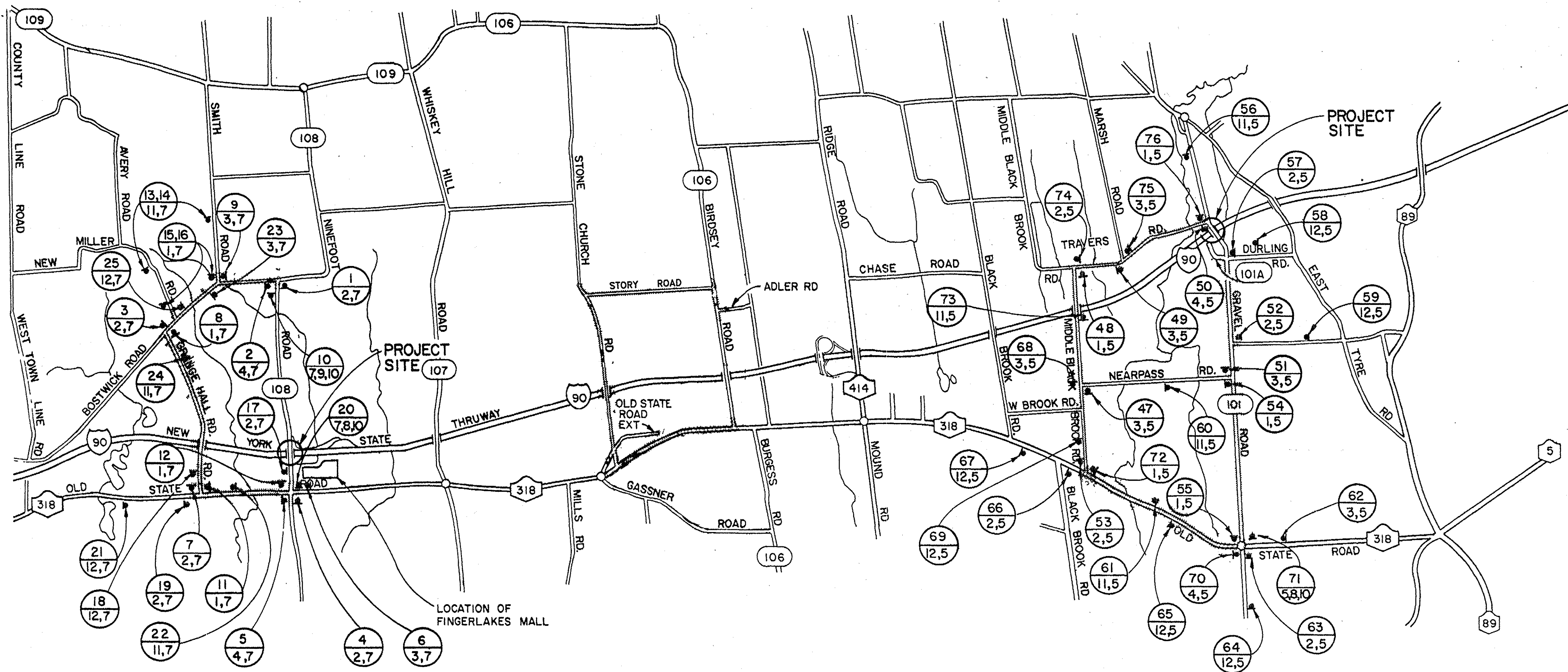
NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM

REVISIONS

NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING SERVICES 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	CONTRACT NUMBER: TAS 98-8B
TITLE OF PROJECT 5 BRIDGE REPLACEMENTS	DATE: 7/1/94
LOCATION OF PROJECT SENECA COUNTY	DRAWING NUMBER: MPT3
TITLE OF DRAWING THRUWAY TRAFFIC PLANS FOR MISCELLANEOUS OPERATIONS	

IN CHARGE OF: *XX* *Paul A. Adrien* DESIGNED BY: *XX* DRAFTED BY: *XX* *A. Bachand - S. Car* CHECKED BY: *XX* F:\BRIDGES\SCANS\MPT-4.DWG



CONSTRUCTION SIGN TEXT DATA									
LOCATION NO.	TEXT NO.	TEXT	LETTER SIZE & SERIES	SIGN		M.U.T.C.D. NO.	COLOR		TYPE OF MOUNT
				SIZE	AREA S.F.		BACK-GROUND	CHARACTERS	
8,11,12,15,16, 48,54,55,72,76	1	DETOUR →	5" D	30"x24"	5.0	G11-8C	O	B	GR MTD
1,3,4,7,17,19, 52,53,57,63,66,74	2	DETOUR ←	5" D	30"x24"	5.0	G11-6C	O	B	GR MTD
6,9,23, 47,49,51,62,68,75	3	DETOUR ↑	5" D	30"x24"	5.0	G11-7C	O	B	GR MTD
2,5,50,70	4	END DETOUR	5" D 5" D	30"x24"	5.0	G11-9C	O	B	GR MTD
47,48,49,50,51,52,53,54,55,56, 57,58,59,60,61,62,63,64,65,66, 67,68,69,70,71,72,73,74,75,76	5	GRAVEL RD.	4" D	8"x36"	1.25	I3-1C	G	W	GR MTD

1,2,3,4,5,6,7,8,9,11,12,13,14,15,16, 17,18,19,20,21,22,23,24,25,10	7	NINEFOOT RD.	4" D	8"x42"	1.5	I3-1C	G	W	GR MTD
20,71	8	DETOUR ←	6" D	18"x48"	6.0	G11-4C	O	B	GR MTD
10	9	DETOUR →	6" D	18"x48"	6.0	G11-5C	O	B	GR MTD

CONSTRUCTION SIGN TEXT DATA									
LOCATION NO.	TEXT NO.	TEXT	LETTER SIZE & SERIES	SIGN		M.U.T.C.D. NO.	COLOR		TYPE OF MOUNT
				SIZE	AREA S.F.		BACK-GROUND	CHARACTERS	
10,20,71	10	BRIDGE CLOSED 0. xx MILE AHEAD LOCAL TRAFFIC ONLY	6C 5C 4C	30"x60"	12.5	R8-7C	W	B	GR MTD
13,14,22,24, 56,60,61,73	11	DETOUR →	5" D	30"x24"	5.0	G11-8C(MOD)	O	B	GR MTD
18,21,25,31,33, 58,59,64,65, 67,69	12	DETOUR ←	5" D	30"x24"	5.0	G11-6C(MOD)	O	B	GR MTD

LOCATION NO. *Y*
TEXT NO. *Z*

SIGNS PROVIDED FOR
1998 CONSTRUCTION
SEASON

CONSTRUCTION SEASON:
1998 GRAVEL ROAD OVER I-90
1998 NINEFOOT ROAD OVER I-90

NOTE:
1. ADDITIONAL SITE SPECIFIC CONSTRUCTION SIGN REQUIREMENTS ARE SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN FOR EACH INDIVIDUAL STRUCTURE.
2. ALL "G" SERIES SIGNS SHALL BE BLACK ON REFLECTORIZED FLUORESCENT ORANGE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
W	White or Silver	Ref.	Reflectorized	Gr. Mtd.	Ground Mounted	Y	Approx. Location of Sign
G	Green	Non Refl.	Non Reflectorized	O.H.	Overhead Mounted	X	Text
Y	Yellow	Cap	Capital Letters	C.S.M.	Canister Mounted	I	Disposition
B	Black	U.C.	Upper Case Letters	S	Single Mast Arm	X	Proportion Square
Bl	Blue	L.C.	Lower Case Letters	C.M.	Canister Mounted		
Br	Brown	Po.M.	Pole Mounted	C.C.M.	Double Mast Arm		
R	Red	Spw.M.	Spigot Mounted	C.C.M.	Canister Mounted		
O	Orange	B-B	Back to Back	Br.M.	Bridge Mounted		

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
BRIDGES AT M.P. 321.08 AND M.P. 324.17

TITLE OF DRAWING
DETOUR PLAN I

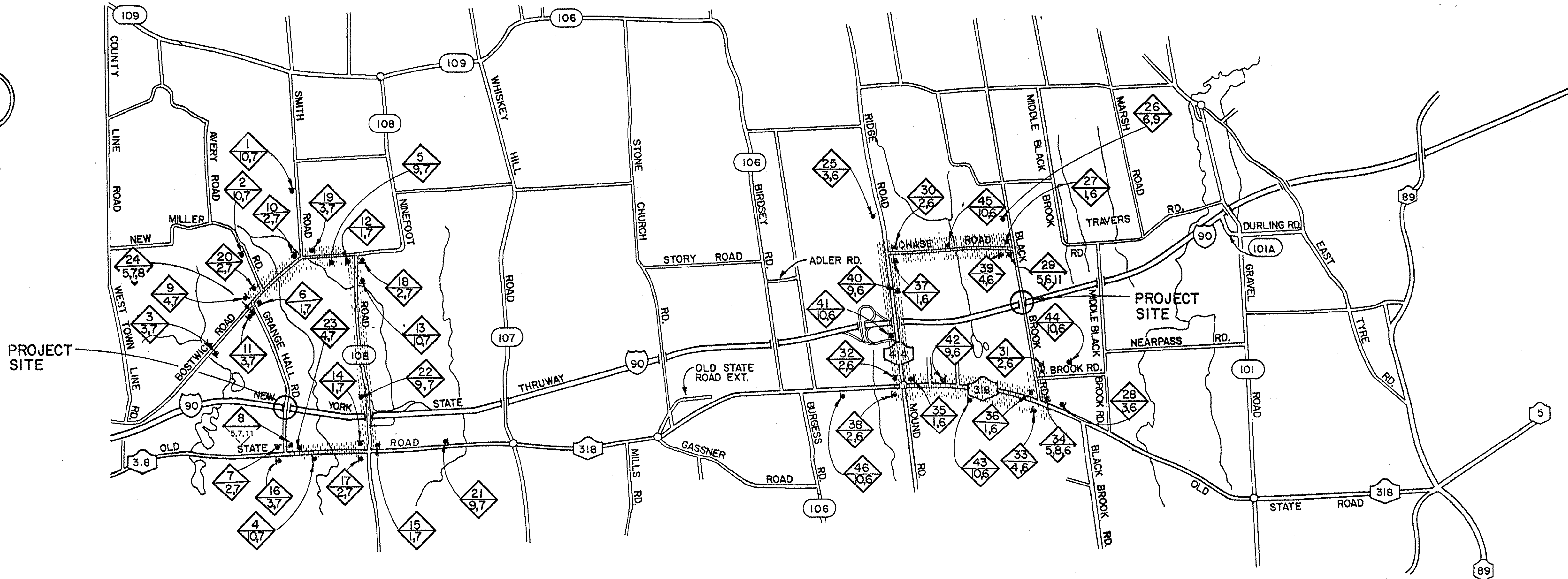
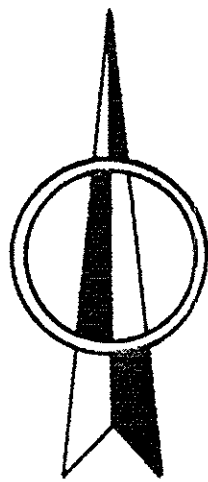
CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
MPT-4

NEW YORK STATE
THRUWAY AUTHORITY

IN CHARGE OF: *Richard A. Decker* DESIGNED BY: XX DRAFTED BY: XX A. Beckley - scan CHECKED BY: XX



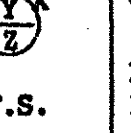
CONSTRUCTION SIGN TEXT DATA									
LOCATION NO.	TEXT NO.	TEXT	LETTER SIZE & SERIES	SIGN		M.U.T.C.D. NO.	COLOR		TYPE OF MOUNT
				SIZE	AREA S.F.		BACK-GROUND	CHARACTERS	
6,12,14,15,27,33,36,37	1	DETOUR →	5" D	30"x24"	5.0	G11-8C	O	B	GR MTD
7,10,17,18,20,30,31,32,38	2	DETOUR ←	5" D	30"x24"	5.0	G11-6C	O	B	GR. MTD.
3,11,16,19,25,28	3	DETOUR ↑	5" D	30"x24"	5.0	G11-7C	O	B	GR. MTD.
9,23,33,39	4	END DETOUR	5" D 5" D	30"x24"	5.0	G11-9C	O	B	GR. MTD.
8,24,29,34	5	BRIDGE CLOSED 0.25 MILE AHEAD LOCAL TRAFFIC ONLY	6" C 5" C 4" C	30"x60"	12.5	R8-7C	W	B	GR. MTD.
25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46	6	BLACK BROOK RD.	4" D	8"x54"	2.0	I3-1C	G	W	GR. MTD.
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24	7	GRANGE HALL RD.	4" D	8"x54"	1.5	I3-1C	G	W	GR. MTD.
24,34	8	DETOUR ←	4" C	18"x48"	6.0	G11-4C	O	B	GR. MTD.
8,29	11	DETOUR →	4" C	18"x48"	6.0	G11-5C			

CONSTRUCTION SIGN TEXT DATA									
LOCATION NO.	TEXT NO.	TEXT	LETTER SIZE & SERIES	SIGN		M.U.T.C.D. NO.	COLOR		TYPE OF MOUNT
				SIZE	AREA S.F.		BACK-GROUND	CHARACTERS	
5,21,22,26,40,42	9	DETOUR →	6" C	30"x24"	5.0	G11-8C (MOD.)	O	B	GR. MTD.
1,2,4,13,41,43,44,45,46	10	DETOUR ←	6" C	30"x24"	5.0	G11-6C (MOD.)	O	B	GR. MTD.

NOTE: ADDITIONAL SITE SPECIFIC CONSTRUCTION SIGN REQUIREMENTS ARE SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN FOR EACH INDIVIDUAL STRUCTURE.

LOCATION NO.  SIGNS PROVIDED FOR 1999 CONSTRUCTION SEASON
TEXT NO. 

CONSTRUCTION SEASON:
BLACK BROOK ROAD OVER I-90 - 1999
GRANGE HALL ROAD OVER I-90 - 1999
BIRDSEY ROAD OVER I-90 - 1999
(FOR BIRDSEY RD., SEE DWG. No. MPT-7.)

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
W	White or Silver	Ref.	Reflectorized	Gr. Mtd.	Ground Mounted		Approx. Location of Sign
C	Green	Non Refl.	Non Reflectorized	O.H.	Overhead Mounted	Y	Location
Y	Yellow	Caps	Capital Letters	C.S.M.	Cantilever Mounted	Z	Text
B	Blue	U.C.	Upper Case Letters	C.D.M.	Single Mast Arm	X	Disposition
Bl	Blue	L.C.	Lower Case Letters	C.C.M.	Cantilever Mounted	Fraction Square	
Br	Brown	P.M.	Pole Mounted	C.C.M.	Double Mast Arm	Manual of Uniform	
R	Red	Sw.M.	Spanwire Mounted	Br.M.	Cantilever Center Mounted	Traffic Control	
O	Orange	B-B	Back to Back		Bridge Mounted	Devices	

NOAS-BUILT REVISIONS

12/4/00	Kenneth W. Haines		

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
5 BRIDGE REPLACEMENTS

TITLE OF DRAWING

DETOUR PLAN 2



CONTRACT NUMBER:
TAS 98-8B
DATE:
3/98
DRAWING NUMBER:
MPT-5

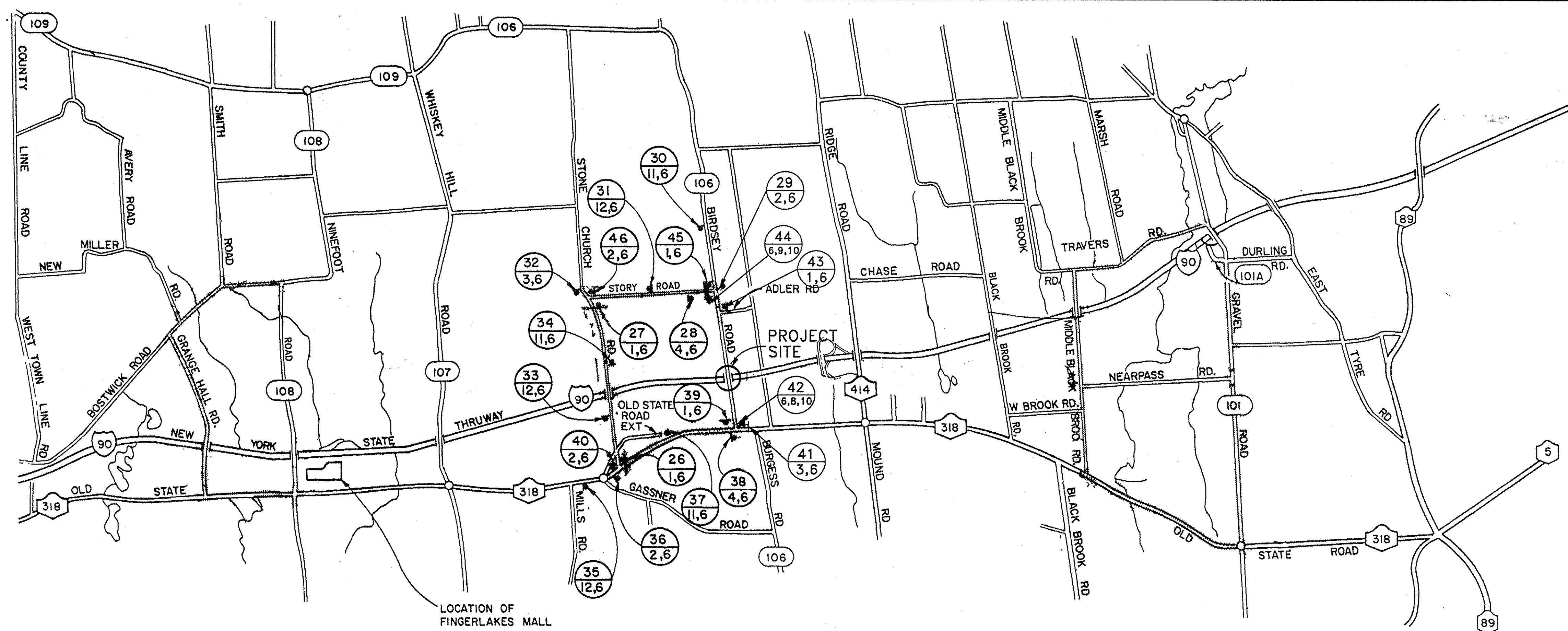
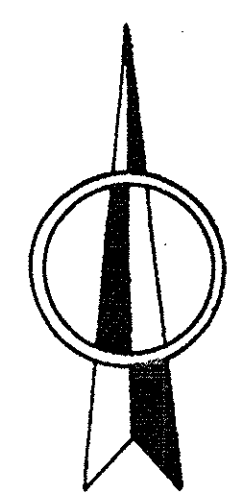
FILED/REVISED/SCANS/MP/ENDING

CHECKED BY: XX

DRAFTED BY: XX A. B. B. - Scan

DESIGNED BY: XX

IN CHARGE OF: XX A. B. B. - A. B. B.



113
113

CONSTRUCTION SIGN TEXT DATA									
LOCATION NO.	TEXT NO.	TEXT	LETTER SIZE & SERIES	SIGN		M.U.T.C.D. NO.	COLOR		TYPE OF MOUNT
				SIZE	AREA S.F.		BACK-GROUND	CHARACTERS	
26,27,39,43,45,	1	DETOUR →	5" D	30"x24"	5 0	G11-8C	O	B	GR MTD
29,36,40,46	2	DETOUR ←	5" D	30"x24"	5 0	G11-6C	O	B	GR MTD
32,41	3	DETOUR ↑	5" D	30"x24"	5 0	G11-7C	O	B	GR MTD
28,38	4	END DETOUR	5" D 5" D	30"x24"	5 0	G11-9C	O	B	GR MTD
26,27,28,29,30,31,32,33,34,35,36 37,38,39,40,41,42,43,44,45,46	6	BIRDSEY RD.	4"D	8"x40"	2 0	I3-1C	G	W	GR MTD
42	8	DETOUR ←	6"D	18"x48"	6 0	G11-4C	O	B	GR MTD
44	9	DETOUR →	6"D	18"x48"	6 0	G11-5C	O	B	GR MTD

CONSTRUCTION SIGN TEXT DATA									
LOCATION NO.	TEXT NO.	TEXT	LETTER SIZE & SERIES	SIGN		M.U.T.C.D. NO.	COLOR		TYPE OF MOUNT
				SIZE	AREA S.F.		BACK-GROUND	CHARACTERS	
42,44	10	BRIDGE CLOSED 0.25 MILE AHEAD LOCAL TRAFFIC ONLY	6C 5C 4C	30"x60"	12 5	R8-7C	W	B	GR MTD
30,34,37,	11	DETOUR →	5"D	30"x24"	5 0	G11-8C(MOD)	O	B	GR MTD
31,33,35,	12	DETOUR ←	5"D	30"x24"	5 0	G11-6C(MOD)	O	B	GR MTD

LOCATION NO. TEXT NO. SIGNS PROVIDED FOR 1998 CONSTRUCTION SEASON

CONSTRUCTION SEASON: 1999 BIRDSEY ROAD

NOTE:
1. ADDITIONAL SITE SPECIFIC CONSTRUCTION SIGN REQUIREMENTS ARE SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN FOR EACH INDIVIDUAL STRUCTURE.
2. ALL "G" SERIES SIGNS SHALL BE BLACK ON REFLECTORIZED FLUORESCENT ORANGE

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
W	White or Silver	Ref1.	Reflectorized	Gr. Mtd.	Ground Mounted	Y	Approx. Location of Sign
C	Green	Non Refl.	Non Reflectorized	C.B.M.	Overhead Mounted	X	Location of Sign
Y	Yellow	Caps	Capital Letters	C.D.M.	Canister Mounted	F.S.	Fraction Square
B	Black	U.C.	Upper Case Letters	C.C.M.	Canister Mounted	1-14	Gr. Mtd. Guide Sign (No. Post)
Bl	Blue	L.C.	Lower Case Letters	Br.M.	Bridge Mounted	M.U.T.C.D.	Manual of Uniform Traffic Control Devices
Br	Brown	Po.M.	Pole Mounted				
R	Red	Sp.M.	Spanset Mounted				
O	Orange	B-B	Back to Back				

NOAS-BUILT REVISIONS

DATE	DESCRIPTION	BY	SYM.

REVISIONS

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

TITLE OF PROJECT
5 BRIDGE REPLACEMENTS

LOCATION OF PROJECT
BRIDGES AT M.P. 321.08 AND M.P. 324.17

TITLE OF DRAWING
DETOUR PLAN 3

CONTRACT NUMBER:
TAS 98-8B

DATE:
3/98

DRAWING NUMBER:
MPT-6