



Thruway Authority Canal Corporation

ALBANY DIVISION PLANS FOR ROCK REMEDIATION

ON
I-87
AT

MILEPOST 115.0± TO MP 116.1±
IN
GREENE COUNTY

TAA 16-41 D214558
62 SHEETS

TYPE OF CONSTRUCTION:

ROCK REMOVAL, ROCK SCALING, TREE REMOVAL, ASPHALT PAVING, GUIDE RAIL, DRAINAGE AND PAVEMENT STRIPING

STANDARD SHEETS:

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY NYS DOT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEET(S) LISTED ON DWG. GN-1 UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

NOTES:

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (US CUSTOMARY) REFERENCED IN THE CONTRACT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR CHANGES SET FORTH IN THE CONTRACT "PROPOSAL".

REVIEWED BY *J. M. Reganella*

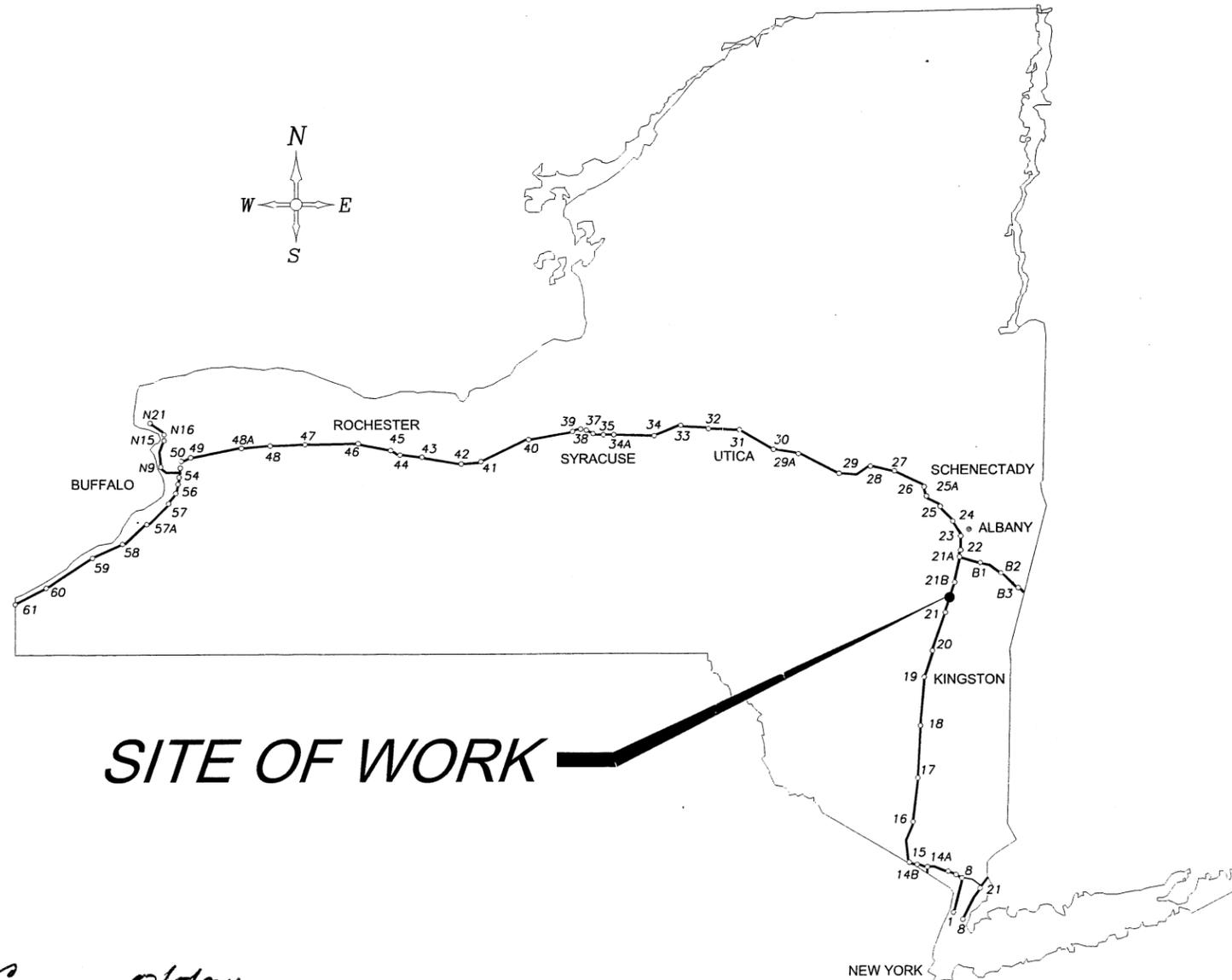
PROJECT MANAGER

Christine Seanez

BUREAU DIRECTOR

[Signature]

BUREAU DIRECTOR



DIG SAFELY NEW YORK
UNDERGROUND FACILITIES PROTECTION ORGANIZATION
CALL 811

CONTRACTOR'S NAME:

AWARD DATE:

COMPLETION DATE:

FINAL ACCEPTANCE DATE:

INSPECTION FIRM'S NAME:

RESIDENT ENG./EIC:

FINAL COST TOTAL:

FISCAL SHARE	COST(S)

INSPECTION FIRM CONSULTANT STAMP:

RECOMMENDED BY: *[Signature]* 10/10/16
DIRECTOR, OFFICE OF DESIGN

RECOMMENDED BY: *[Signature]* 10/6/16
DIVISION DIRECTOR

RECOMMENDED BY: *[Signature]* 10/6/16
TRAFFIC ENGINEER

RECOMMENDED BY: *[Signature]* 10/6/16
DIRECTOR, OFFICE OF CONSTRUCTION MANAGEMENT

RECOMMENDED BY: *[Signature]* 10/6/16
DIRECTOR OF MAINTENANCE AND OPERATIONS

APPROVED BY: *[Signature]* 10/10/16
CHIEF ENGINEER

DESIGNED BY: AM
DESIGN SUPERVISOR: AM
CHECKED BY: CK
DRAFTED BY: CK
CHECKED BY: JP
DRAFTED BY: CK
CHECKED BY: JP

ALIGNMENT		TOPOGRAPHY (MISCELLANEOUS)		UTILITIES	
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
AH	AHEAD	ABUT	ABUTMENT	E	ELECTRIC
AZ	AZIMUTH	AOBE	AS ORDERED BY ENGINEER	EMH	ELECTRIC MANHOLE
BK	BACK	ASPH	ASPHALT	G	GAS
B	BASELINE	BDY	BOUNDARY	GP	GUY POLE
BRG	BEARING	BLDG	BUILDING	GSB	GAS SERVICE BOX (HOUSE LINE)
C	CENTERLINE	BM	BENCH MARK	GV	GAS VALVE (MAIN LINE)
CS	CURVE TO SPIRAL	CC	CENTER TO CENTER	HYD	HYDRANT
e	SUPERELEVATION RATE (CROSS SLOPE)	CONC	CONCRETE	LP	LIGHT POLE
EQ	EQUALITY	CONST	CONSTRUCTION	LPG	LOW PRESSURE GAS
EXT	EXTERNAL	CR	COUNTY ROAD	PP	POWER POLE
HCL	HORIZONTAL CONTROL LINE	D	DEED DISTANCE	SA	SANITARY SEWER
HSD	HEADLIGHT SIGHT DISTANCE	DM	DIRECT MEASUREMENT	SMH	SANITARY MANHOLE
L	LENGTH OF CIRCULAR CURVE	DWY	DRIVEWAY	ST	STORM SEWER
LS	LENGTH OF SPIRAL	EP	EDGE OF PAVEMENT	T	TELEPHONE
LVC	LENGTH OF VERTICAL CURVE	ES	EDGE OF SHOULDER	TCB	TRAFFIC CONTROL BOX
E	CENTER CORRECTION OF VERTICAL CURVE	FEE	FEE ACQUISITION	TELBOX	TELEPHONE BOX
M	MAIN LINE	FEE WO/A	FEE ACQUISITION WITHOUT ACCESS	TEL P	TELEPHONE POLE
PC	POINT OF CURVATURE	FP	FENCE POST	TMH	TELEPHONE MANHOLE
PI	POINT OF INTERSECTION	FD	FOUNDATION	CTV	CABLE TELEVISION
POL	POINT ON LINE	FL	FENCE LINE	W	WATER
PSD	PASSING SIGHT DISTANCE	GAR	GARAGE	WSB	WATER SERVICE BOX (HOUSE LINE)
PT	POINT OF TANGENT	GR	GRAVEL	WV	WATER VALVE (MAIN LINE)
PVC	POINT OF VERTICAL CURVE	HO	HOUSE		
PVI	POINT OF VERTICAL INTERSECTION	HWY	HIGHWAY		
PVT	POINT OF VERTICAL TANGENT	IP	IRON PIN OR IRON PIPE		
R	RADIUS	IP	IRON PIN OR IRON PIPE		
SC	SPIRAL TO CURVE	MB	MAILBOX		
SSD	STOPPING SIGHT DISTANCE	MON	MONUMENT		
ST	SPIRAL TO TANGENT	N&W	NAIL AND WASHER		
STA	STATION	OG	ORIGINAL GROUND		
T	TANGENT LENGTH	O/H	OVERHEAD		
TGL	THEORETICAL GRADE LINE	P	PARCEL		
TS	TANGENT TO SPIRAL	PAV'T	PAVEMENT		
VC	VERTICAL CURVE	PE	PERMANENT EASEMENT		
		PED POLE	PEDESTRIAN POLE		
		P	PROPERTY LINE		
		POR	PORCH		
		RR	RAILROAD		
		RTE	ROUTE		
		ROW	RIGHT OF WAY		
		RW	RETAINING WALL		
		SH	STATE HIGHWAY		
		SHLDR	SHOULDER		
		SPK	SPIKE		
		ST	STREET		
		STK	STAKE		
		STY	STORY		
		SW	SIDEWALK		
		TE	TEMPORARY EASEMENT		
		TO	TEMPORARY OCCUPANCY		
		U/G	UNDERGROUND		
		WW	WING WALL		

TOPOGRAPHY (DRAINAGE)	
ABBR.	DESCRIPTION
BB	BOTTOM OF BANK (STREAM)
BC	BOTTOM OF CURB
BO	BOTTOM OF OPENING
CAP	CORRUGATED ALUMINUM PIPE
CB	CATCH BASIN
CIP	CAST IRON PIPE
C STRM	CENTERLINE OF STREAM
CMP	CORRUGATED METAL PIPE
CP	CONCRETE PIPE
CSP	CORRUGATED STEEL PIPE
CULV	CULVERT
DIA	DIAMETER
DMH	DRAINAGE MANHOLE
DS	DRAINAGE STRUCTURE PIPE
D'XING	DITCH CROSSING
EHW	EXTREME HIGH WATER
EL	ELEVATION
ELEV	ELEVATION
ELW	EXTREME LOW WATER
ES	END SECTION
HW	HEADWALL
INV	INVERT
MH	MANHOLE
MHW	MEAN HIGH WATER
OHW	ORDINARY HIGH WATER
OLW	ORDINARY LOW WATER
RCP	REINFORCED CONCRETE PIPE
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE
TB	TOP OF BANK (STREAM)
TC	TOP OF CURB
TG	TOP OF GRATE
VCP	VITRIFIED CLAY PIPE

ABBR.	DESCRIPTION
REPLACE ABBREVIATION "AB" WITH:	
AH	HAND AUGER
CP	CONE PENETROMETER
DA	2 1/4 INCHES CASED DRILL HOLE
DM	DRILLING MUD
DN	4 INCHES CASED DRILL HOLE
FH	HOLLOW FLIGHT AUGER
PA	POWER AUGER
PH	PROBE
PT	PERCOLATION TEST HOLE
RP	1 INCH SAMPLER (RETRACTABLE PLUG)
	TO BE DEFINED AT THE TIME OF EXPLORATION
SP	SEISMIC POINT
TP	TEST PIT
ABBREVIATION "C" IN CATEGORIES: DA, DM, DN, AND FH WITH:	
B	BRIDGE
C	CUT
D	DAM
F	FILL
K	CULVERT
W	WALL
X	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
"	-	INCHES
'	LF	LINEAR FEET
mi	MI	MILES
ft ²	SF	SQUARE FEET
YD ²	SY	SQUARE YARD
AC	AC	ACRES
YD ³	CY	CUBIC YARD
GAL	GAL	GALLON
lb	LB	POUND
TON	TON	TON

INDEX		TOTAL NUMBER OF SHEETS 62
SHEET NUMBER	DESCRIPTION	DRAWING NUMBER
1	TITLE SHEET	COVER
2	INDEX AND ABBREVIATIONS	INDEX
3-4	LEGENDS, LINE AND POINT SYMBOLOGY	LEG-1 & LEG-2
5-6	TYPICAL SECTIONS	TS-1 TO TS-2
7	GENERAL NOTES	GN-1
8-22	GENERAL PLANS	P-1 TO P-15
23-25	BASELINE TIES	BT-1 TO BT-3
26-27	MEDIAN DITCH SB PROPOSED PROFILE	MDP-1 TO MDP-2
28	MEDIAN SLOPE FLATTENING PLAN	G-1
29-32	DRAINAGE DETAILS	DD-1 TO DD-4
33-34	DRAINAGE TABLES	DT-1 TO DT-2
35	MISCELLANEOUS DETAILS	MD-1
36	GUIDE RAIL TABLE AND MISCELLANEOUS SAFETY DETAILS	GR-1
37-39	TEMPORARY ROCK CATCHMENT BARRIER	TRCB-1 TO TRCB-3
40	TREE REMOVAL, CLEARING AND GRUBBING TABLE	CG-1
41	SHOULDER BACK-UP DETAILS	SB-1A
42	STAR GROOVE LAYOUT	SG-1
43-60	WORK ZONE TRAFFIC CONTROL PLANS	(18 SHEETS)
61-62	ESTIMATE OF QUANTITIES	EQ-1 TO EQ-2

WORK TO BE DONE

THE FOLLOWING IS A GENERAL DESCRIPTION OF WORK TO BE DONE UNDER THIS CONTRACT WITHIN THE WORK LIMITS SHOWN. THE INTENT IS TO GIVE THE CONTRACTOR A GENERAL DESCRIPTION OF THE WORK INVOLVED AND IS NOT A COMPLETE LISTING OF THE WORK TO BE DONE. ALL DETAILED WORK ITEMS NOT INCLUDED WITHIN THESE NOTES SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

1. PROVIDE WORK ZONE TRAFFIC CONTROL AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER IN CHARGE (E.I.C.).
2. INSTALL TEMPORARY CONCRETE BARRIER AND TEMPORARY ROCK CATCHMENT BARRIER ON MEDIAN SHOULDER.
3. INSTALL SOIL AND EROSION CONTROL MEASURES.
4. PLACE SAND CUSHION BEHIND TEMPORARY ROCK CATCHMENT BARRIER.
5. REMOVE GUIDE RAIL IN FRONT OF ROCK SLOPE.
6. CLEAR AND GRUB TOP OF ROCK SLOPE.
7. CONSTRUCT NEW ROCK FACE TO SLOPES AS SHOWN ON THE PLANS AND CROSS SECTION DRAWINGS.
8. CLEAN LOOSE ROCK FROM BEHIND THE BARRIER AFTER EACH BLAST.
9. CONSTRUCT MEDIAN SLOPES AND DITCHES AS SHOWN ON THE PLANS. ALTER EXISTING DRAINAGE STRUCTURES.
10. PLACE TOP SOIL AND SEED IN DISTURBED AREAS.
11. REMOVE SAND CUSHION FROM BEHIND TEMPORARY ROCK CATCHMENT BARRIER.
12. REMOVE TEMPORARY CONCRETE BARRIER AND TEMPORARY ROCK CATCHMENT BARRIER.
13. INSTALL GUIDE RAIL AT LOCATIONS AS SHOWN ON THE PLANS.
14. CLEAN DRAINAGE STRUCTURES AND CULVERTS AS SHOWN ON THE PLANS.
15. REPAVE DAMAGED ASPHALT PAVEMENT (REQUIRED ONLY IF DIRECTED BY THE E.I.C.).
16. RESTRIPE WORN PAVEMENT MARKINGS (REQUIRED ONLY IF DIRECTED BY E.I.C.).
17. REMOVE TEMPORARY SOIL AND EROSION CONTROL MEASURES.
18. PROJECT SITE CLEAN UP AS DIRECTED BY THE E.I.C.

STANDARD SHEETS - THE FOLLOWING STANDARD SHEETS APPLY TO THIS PROJECT:
203-02, 203-04, 203-05, 209-01, 209-02, 209-03, 209-05, 212-05, 603-01, 603-04, 603-05, 604-02, 606-07, 606-09, 606-11, 606-27, 619-01, 619-02, 619-04, 645-01, 655-04

REVISIONS				 Thruway Authority Canal Corporation	TITLE OF PROJECT	CONTRACT NUMBER:
DATE	DESCRIPTION	BY	SYM.		ROCK REMEDIATION	TAA 16-41
					LOCATION OF PROJECT	DATE:
					MP 115.0 TO MP 116.1 GREENE COUNTY	9/30/16
					TITLE OF DRAWING	DRAWING NUMBER:
					INDEX AND ABBREVIATIONS, WORK TO BE DONE AND STANDARD SHEET LIST	INDEX

CHECKED BY: TA

DRAFTED BY: TA

CHECKED BY: TA

DESIGNED BY: TA

DESIGN SUPERVISOR: TA

ALIGNMENT			LANDSCAPE			ROADWAY			TRAFFIC WORK ZONE		
STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION
	AC	CONTROL (CENTERLINE)		LABL	AREA, BRUSH LINE		RCZ_P	CLEAR ZONE		TWZBT_P	BARRIER, TEMPORARY
	AD_P	DETOUR		LAHR	AREA, HEDGE ROW		RG	GUIDE RAIL, MISCELLANEOUS		TWZBTWL_P	BARRIER, TEMPORARY, W/ WARNING LIGHTS
	AT_P	TRANSITION CONTROL		LAPB	AREA, PLANTING BED		RGB	GUIDE RAIL, BOX BEAM		TWZCD_P	CHANNELIZING DEVICE
BRIDGE				LAWA	AREA, WOODED AREA OUTLINE		RGBM	GUIDE RAIL, BOX BEAM, MEDIAN		TWZPMRC_P	PAVEMENT MARKING REMOVAL OR COVERING
	BR	RAIL		LAWE	AREA, WATERS EDGE		RGC	GUIDE RAIL, CABLE	UTILITIES		
	BSHT	SHEET PILING		LCUT_P	CUT LIMIT		RGCB	GUIDE RAIL, CONCRETE BARRIER	STYLE	NAME	DESCRIPTION
CONTROL				LFILL_P	FILL LIMIT		RGP_P	GUIDE POST		UC	CONDUIT, UNDERGROUND
	CB	BASELINE		LFNC	FENCE		RGW	GUIDE RAIL, W BEAM		UCH	CONDUIT, HANGING
	CBPR	BASELINE, PROJECTION		LTRC	TREE ROW, CONIFEROUS		RGWM	GUIDE RAIL, W BEAM, MEDIAN		UCO	CONDUIT, OVERHEAD
DRAINAGE				LTRD	TREE ROW, DECIDUOUS		RPB	PARKING BUMPER		UE	ELECTRIC LINE, UNDERGROUND
	DCP	CULVERT PIPE		LWH	WALL, H PILE		RRC	RAIL ROAD, CATENARY		UEH	ELECTRIC LINE, HANGING
	DCP_P	CULVERT PIPE (DIR)		LWR	WALL, RETAINING		RRER	RAIL ROAD, 3RD RAIL		UEO	ELECTRIC LINE, OVERHEAD
	DDG_P	DITCH, GRASS LINED		LWS	WALL, STONE		RRPLS_P	RAIL, PHOTO, LARGE SCALE		UETO	ELECTRIC TRANSMISSION, OVERHEAD
	DDP_P	DITCH, PAVED INVERT	ROW MAPPING				RRPSS	RAIL, PHOTO, SMALL SCALE		UESS	ELECTRIC, SUBSTATIONS
	DDS_P	DITCH, STONE LINED		MDL	DEED LINE		RRS	RUMBLE STRIP		UFO	FIBER OPTIC, UNDERGROUND
	DFL_P	FLOW LINE		MEE	EASEMENT, EXISTING		RRSLP	RAIL, SURVEY, LARGE SCALE		UFOH	FIBER OPTIC, HANGING
	DSSD	SLOTTED DRAIN		MEP_P	EASEMENT, PERMANENT		RRSS	RAIL, SURVEY, SMALL SCALE		UFOO	FIBER OPTIC, OVERHEAD
	DUD_P	UNDERDRAIN		MEPA_P	EASEMENT, PERMANENT, APPROX.	SIGNS				UG	GAS, UNDERGROUND
ENVIRONMENTAL				MET_P	EASEMENT, TEMPORARY		SBLB	BILLBOARDS		UGH	GAS, HANGING
	EBLHS	BALE, STRAW		META_P	EASEMENT, TEMPORARY, APPROX.		SM	MULTIPLE POST		UGO	GAS, OVERHEAD
	ECT	CURTAIN, TURBIDITY		MFA_P	FEE ACQUISITION, W/ ACCESS		SSO	STRUCTURE, OVERHEAD		UIC	INFORM CABLE, UNDERGROUND
	EDMC	DAM, COFFER		MFA_P	FEE ACQUISITION, APPROXIMATE		SSOC	STRUCTURE, OVHD. CANTILEVER		UICH	INFORM CABLE, HANGING
	EDMEC_P	DAM, EARTHEN CHECK		MFS_P	FEE ACQUISITION, SHAPE	STRIPING				UO	OIL LINE, UNDERGROUND
	EDMGSC_P	DAM, GRAVEL BAG/SAND BAG CHECK		MFWOA_P	FEE ACQUISITION, W/O ACCESS		STB	BROKEN LINE		UOH	OIL LINE, HANGING
	EDMPC_P	DAM, PREFABRICATED CHECK		MHA	HISTORICAL, ACQUISITION		STDB	DOUBLE BROKEN LINE		UPBP	POLE, BRACE, PUSH BRACE
	EDMSC_P	DAM, STONE CHECK		MHB	HIGHWAY BOUNDARY		STDLL	DOTTED LINE LONG		UPGW	POLE, GUY WIRE
	EFNS	FENCE, SILT		MHBA	HIGHWAY BOUNDARY, APPROX.		STDS	DOTTED LINE SHORT		USA	SANITARY SEWER, UNDERGROUND
	EFNSV	FENCE, SILT & VEGETATION		MHBW	HWY BOUNDARY, FACE OF WALL		STFB	FULL BARRIER LINE		USAH	SANITARY SEWER, HANGING
	EFNV	FENCE, VEGETATION		MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS		STH	HATCH LINE		USAF	SANITARY SEWER, FORCE MAIN, UGND
	EWAA_P	WETLAND, ADJACENT AREA		MJC	JURISDICTION, CITY		STPB	PARTIAL BARRIER LINE		USAFH	SANITARY SEWER, FORCE MAIN, HANG
	EWF	WETLAND, FEDERAL		MJCY	JURISDICTION, COUNTY		STRCT	ROUNDABOUT, CAT TRACKS		UT	TELEPHONE, UNDERGROUND
	EWFs	WETLAND, FEDERAL AND STATE		MJHD	JURISDICTION, HISTORIC DISTRICT		STRYL	ROUNDABOUT, YIELD LINE		UTH	TELEPHONE, HANGING
	EWM	WETLAND, MITIGATION AREA		MJLL	JURIS., (GREAT, MILITARY) LOT LINE		STSB	STOP BAR		UTO	TELEPHONE, OVERHEAD
	EWS	WETLAND, STATE		MJN	JURISDICTION, NATION		STSE	SOLID, EDGE		UTV	CABLE TV, UNDERGROUND
				MJPB	JURISDICTION, PUBLIC LANDS		STSL	X WALK, LADDER LINE		UTVH	CABLE TV, HANGING
				MJS	JURISDICTION, STATE		STXLB	X WALK, LADDER BAR LINE		UTVO	CABLE TV, OVERHEAD
				MJT	JURISDICTION, TOWN	TRAFFIC CONTROL				UUU	UNKNOWN, UNDERGROUND
				MJV	JURISDICTION, VILLAGE		TCSW	SIGNAL, SPAN WIRE		UUH	UNKNOWN, HANGING
				MPL	PROPERTY LOT LINE					UW	WATER LINE, UNDERGROUND
				MPLA	PROPERTY LOT LINE, APPROXIMATE					UWH	WATER LINE, HANGING
				MSL	SUB LOT LINE					UWO	WATER LINE, OVERHEAD

1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).
2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).
3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.
4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE DRAWINGS).
5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS.
6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

Thruway Authority Canal Corporation	TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
	LOCATION OF PROJECT MP 115.0 TO MP 116.1 GREENE COUNTY	DATE: 9/30/16
	TITLE OF DRAWING LINE SYMBOLOGY	DRAWING NUMBER: LEG-1

CHECKED BY: TA

DRAFTED BY: TA

CHECKED BY: TA

DESIGNED BY: TA

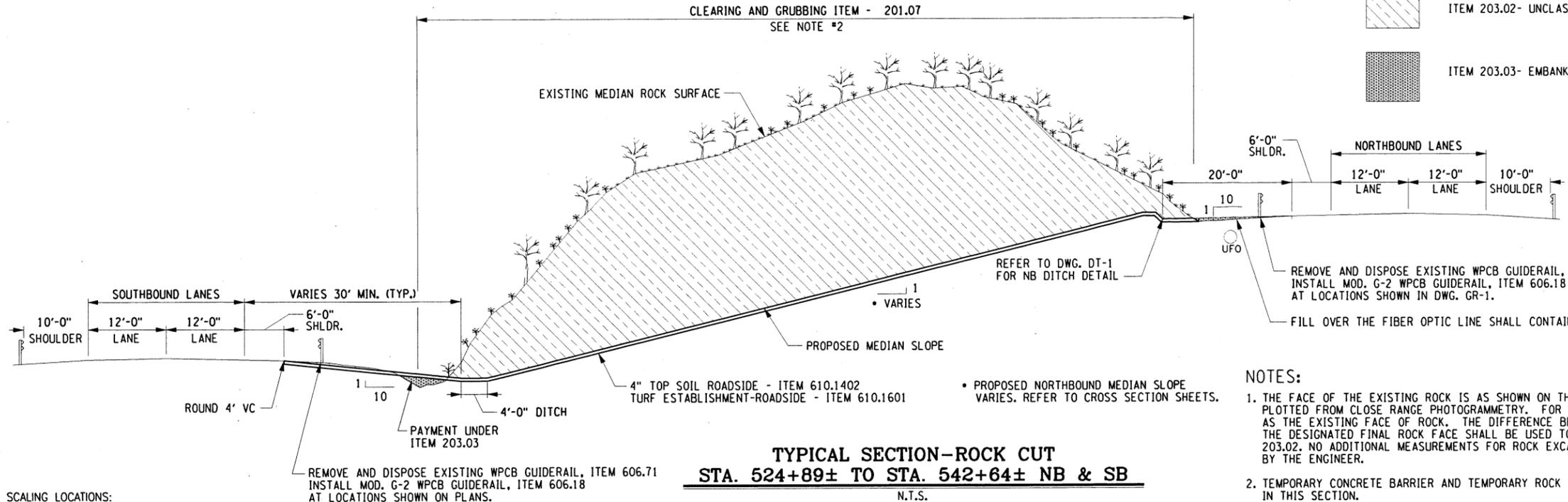
DESIGN SUPERVISOR: TA

ALIGNMENT			DRAINAGE			ITS			ROW MAPPING			SIGNS			UTILITIES		
CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION
⊕	ACC	CENTER OF CURVATURE	+	DINV	INVERT	⊕	IANT_P	ANTENNAS	⊕	MDL1P	DEED LINE, TYPE 1	⊕	S	SINGLE POST	⊕	UEB	ELECTRIC, BOX
+	ACOGO	COGO	▬	DS	STRUCTURE, RECTANGULAR	⊕	IASCTS	ACCOU. SPEED/COUNT SNSR.S	⊕	MDL2P	DEED LINE, TYPE 2	⊕	S.P	SINGLE POST, PROPOSED	⊕	UEM	ELECTRIC, METER
⊙	ACS	CURVE TO SPIRAL	+	DSI	STRUCTURE, INVERT	⊕	ICABPAD	CABINET & PAD	⊕	MDL3P	DEED LINE, TYPE 3	⊕	SB.P	BACK TO BACK, PROPOSED	⊕	UEMH	ELECTRIC, MANHOLE
△	ADPL_P	DETOUR, POINT OF INTERSECT.	⊕	DSM	STRUCTURE, MANHOLE	⊕	ICCTV	CCTV SITE	⊕	MDL4P	DEED LINE, TYPE 4	⊕	SDEL	DELINEATORS	⊕	UEPT	ELECTRIC, POLE, TRANS.
⊙	ADPL_P	DETOUR, POINT ON LINE	⊕	DSMTXX.P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = 48, 60, 72, 96	⊕	ICDPD	CDPD TRANSCEIVER	⊕	MDL5P	DEED LINE, TYPE 5	⊕	SPM	PARKING METER	⊕	UGM	GAS, METER
⊙	AEQN	EQUATION	⊕	DSR	STRUCTURE, ROUND	⊕	ICELT	CELL PHONE TOWER	⊕	MEEP	EASEMENT, EXISTING	⊕	SRM	REFERENCE MARKERS	⊕	UGMH	GAS, MANHOLE
⊕	AEQNAHD	EQUATION AHEAD	⊕	DST"X"CB.P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	⊕	ICJB	CONDUIT JACK OR BORING	⊕	MEPAP.P	EASEMENT, PERM., APPROX.	⊕	SRSC3	SHLD, CTY, 123 DIG.	⊕	UGLM	GAS, LINE MARKER
⊕	AEQNBK	EQUATION BACK	⊕	DST"X"CB.P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	⊕	ICNTLCAB	CONTROLLER CABINET	⊕	MEPP.P	EASEMENT, PERM., BACK LINE	⊕	SRSC4	SHLD, CTY, 4 DIG.	⊕	UGP	GAS/FUEL PUMP
⊕	AEVT	EVENT STATION	⊕	DST"X"CB.P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	⊕	ICPB	COMMUNICATION PULL BOX	⊕	MEPSP.P	EASEMENT, PERM., SHAPE	⊕	SRSC2	SHLD, CTY TOUR, 1-2 DIG.	⊕	UGV	GAS, VALVE
⊕	APC	POINT OF CURVATURE	⊕	DST"X"CB.P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	⊕	ICTD	CONDUIT TURNING DOWN	⊕	MFAP.P	FEE ACQUISITION, APPROX.	⊕	SRSC4	SHLD, CTY TOUR, 3-4 DIG.	⊕	UGVT	GAS, VENT
⊕	APCC	POINT OF COMPOUND CURVATURE	⊕	DST"X"CB.P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	⊕	ICTU	CONDUIT TURNING UP	⊕	MFP.P	FEE ACQUISITION, BACK LINE	⊕	SRS1	SHLD, INTERSTATE	⊕	ULP	LIGHTING, POLE
△	API	POINT OF INTERSECTION	ENVIRONMENTAL			⊕	ICVTRT	COMM. VEH. ROAD TRANSCEIVER	⊕	MFSP.P	FEE ACQUISITION, SHAPE	⊕	SRS2	SHLD, NATIONAL, 2 DIG.	⊕	ULPM	LIGHTING, POLE, MEDIAN
△	APOB	POINT OF BEGINNING				+	IDEFAULT	DEFAULT	⊕	MHBAP	HIGHWAY BNDRY., APPROX.	⊕	MHBCP	HISTORICAL, BLDG. CORNERS	⊕	SRSN3	SHLD, NATIONAL, 3 DIG.
⊕	APOC	POINT OF CURVATURE	CULV	EIOP.P	STR., INLET, OUTLET PROT.	⊕	IEZR	E-ZPASS READER	⊕	MHBP	HIGHWAY BNDRY, PT.	⊕	SRSS2	SHLD, STATE, 2 DIG.	⊕	UMFC	MISC. FILLER CAP
△	APOE	POINT OF END	⊕	EIPGB.P	STR., INLET PROT., GRAVEL BAG	⊕	IEZTR	TRANSMITTAL READER	⊕	MJCP	PT., JURIS. CITY	⊕	SRSS3	SHLD, STATE, 3 DIG.	⊕	UOLM	OIL, LINE MARKER
⊕	APOL	POINT ON LINE	⊕	EIPHS.P	STR., INLET PROT., HAY/STRAW	⊕	IFXCAB	FIBER OPTIC X-CONNECT CABINET	⊕	MPBC	PT., BUILDING CORNER	⊕	SRSS4	SHLD, STATE, 4 DIG.	⊕	UP	POLE, WITH UTILITY
⊕	APOS	POINT ON SPIRAL	⊕	EIPP.P	STR., INLET PROT., PREFAB.	⊕	IFUSSPL	FUSION SPLICE	⊕	MPCC	PT., CROSS CUT	TRAFFIC CONTROL			⊕	UPD	POLE, DEAD (NO UTILITY)
⊕	APOT	POINT ON TANGENT	⊕	EIPSF.P	STR., INLET PROT., SILT FENCE	⊕	IHARADV	HAR ADVISORY SIGN	⊕	MPDH	PT., DRILL HOLE				⊕	UPL	POLE, WITH LIGHT
△	APOVC	POINT ON VERTICAL CURVE	⊕	ERCB	RISER, CONCRETE BOX	⊕	IHARST	HAR SITE	⊕	MPF	PT., FENCE LOCATION	⊕	TCBJ	BOX, JUNCTION	⊕	USMH	SANITARY SEWER MANHOLE
△	APOVT	POINT ON VERTICAL TANGENT	⊕	ETRS.P	TRAP, SEDIMENT	⊕	ILC	LOAD CENTER	⊕	MPIP	PT., IRON PIPE	⊕	TCBP	BOX, PULL BOX	⊕	UTB	TELEPHONE, BOOTH
Y	APORC	POINT ON REVERSE CURVE	⊕	EWFG	WETLAND FLAG	⊕	IMECSPL	MECHANICAL SPLICE	⊕	MPIR	PT., IRON ROD	⊕	TCBS	BOX, SPLICE	⊕	UTLM	TELEPHONE, LINE MARKER
⊕	APT	POINT OF TANGENCY	GEOTECHNICAL			⊕	IMSCS	PORT. SPEED & COUNT SENSOR	⊕	MPM	PT., MONUMENT	⊕	TCMC	MICROCOMPUTER CABINET	⊕	UTMH	TELEPHONE, MANHOLE
⊕	APVC	POINT OF VERTICAL CURVATURE				⊕	IMSCS	PORT. SPEED & COUNT SENSOR	⊕	IMSCTS	MICRO SPEED & COUNT SENSOR	⊕	MPMM	PT., MONUMENT, MISC.	⊕	TCPP	PED POLE
△	APVCC	POINT OF VERT. CMPND CURVE	⊕	IMT	MICROWAVE TRANSCEIVER	⊕	IPASCS	PORT. ACCOU. SPD & CNT. SENSOR	⊕	MPN	PT., NAIL	TRAFFIC WORK ZONE			⊕	UTVPB	CABLE TV, PULL BOX
△	APVI	POINT OF VERT. INTERSECTION	⊕	IOVHMS	PERM. OVERHEAD VMS	⊕	IPEDS	PEDESTRIAN SIGNAL HEAD	⊕	MPRS	PT., RAILROAD SPIKE				⊕	TCSP	SIGNAL POLE
△	APVRC	POINT OF VERT. REVERSE CURVE	⊕	IPSS	PAVEMENT SURFACE SENSOR	⊕	IPEDS	PEDESTRIAN SIGNAL HEAD	⊕	MPST	PT., SPIKE	⊕	TWZAP.P	ARROW PANEL	⊕	UUJB	UNKNOWN, JUNCTION BOX
⊕	APVT	POINT OF VERTICAL TANGENCY	LANDSCAPE			⊕	IPSS	PAVEMENT SURFACE SENSOR	⊕	MPTW	PT., TREE W/ WIRE	⊕	TWZAPC.P	ARROW PANEL, CAUTION MODE	⊕	UUMH	UNKNOWN, MANHOLE
⊕	APVT	POINT OF VERTICAL TANGENCY				⊕	IPVMS	PERM. VMS	⊕	IPVMS	PERM. VMS	⊕	MPWL	PT., WALL LOCATION	⊕	TWZAPT.P	ARROW PANEL, TRAILER OR SUPPORT
⊕	ASC	SPIRAL TO CURVE	+	LELS	ELEVATION, SPOT	⊕	IRWIS	RDWY WEATHER INFO. SENSOR	⊕	MPWL	PT., WALL LOCATION	⊕	TWZBDC.P	BARRICADE (TYPE III)	⊕	UUVL	UNKNOWN, VALVE
△	ASPI	SPIRAL POINT OF INTERSECTION	⊕	LFP	FLAG POLE	⊕	IRWIS	RDWY WEATHER INFO. SENSOR	⊕	MPWL	PT., WALL LOCATION	⊕	TWZBDC.P	BARRICADE (TYPE III)	⊕	UUVT	UNKNOWN, VENT
⊕	ASTS	SPIRAL TO SPIRAL	⊕	LMB	MAILBOX	⊕	ISP	SOLAR PANEL	⊕	MPWL	PT., WALL LOCATION	⊕	TWZCMS.P	CHANGEABLE MESSAGE SIGN (PVMS)	⊕	UUW	UNKNOWN, WELL
⊕	AST	SPIRAL TO TANGENT	⊕	LPB	PAPER BOX	⊕	ISST	SPREAD SPECT. TRANSCEIVER	⊕	MPWL	PT., WALL LOCATION	⊕	TWZFLG.P	FLAGGER	⊕	UWFH	WATER, FIRE HYDRANT
⊕	ATS	TANGENT TO SPIRAL	⊕	LPST	POST, SINGLE	⊕	ITDB	TELEPHONE DEMARCATION BLK	⊕	MPWL	PT., WALL LOCATION	⊕	TWZFT.P	FLAG TREE	⊕	UWM	WATER, METER
△	AVEVT	VERTICAL EVENT POINT	⊕	LRB	ROCK, BOULDER	⊕	ITP	SUBSURFACE TEMP. PROBE	⊕	MPWL	PT., WALL LOCATION	⊕	TWZG.P	IMPACT ATTENUATOR / CRASH CUSHION (TEMPORARY)	⊕	UWMH	WATER, MANHOLE
⊕	AVHIGH	VERTICAL HIGH POINT	⊕	LSHC	SHRUB, CONIFEROUS	⊕	IVTRT	VEHICLE TO RDWY TRANSCEIVER	⊕	MPWL	PT., WALL LOCATION	⊕	TWZLUM.P	LUMINAIRE (TEMPORARY)	⊕	UWV	WATER, VALVE
⊕	AVLOW	VERTICAL LOW POINT	⊕	LSHD	SHRUB, DECIDUOUS	⊕	IWIND	WEIGHT IN MOTION DETECTOR	⊕	MPWL	PT., WALL LOCATION	⊕	TWZSDT.P	SYMBOL, DIRECTION OF TRAFFIC	⊕	UWW	WATER, WELL
BRIDGE			⊕	LTC	TREE, CONIFEROUS	⊕	IWVR	WIRELESS VIDEO REPEATER	ROW ACQUISITION			⊕	TWZSDT.P	SYMBOL, DIRECTION OF TEMPORARY TRAFFIC DETOUR			
			⊕	LTD	TREE, DECIDUOUS	⊕	IWVR	WIRELESS VIDEO REPEATER				⊕	MFS.P.T	FEE ACQUISITION			
⊕	BSC	BRIDGE, SCUPPER	⊕	LTS	TREE, STUMP	⊕	IWVRC	WIRELESS VIDEO RECEIVER	⊕	MEPS.P.T	EASEMENT, PERMANENT	⊕	TWZSIG.P	SIGNAL, TRAFFIC OR PEDESTRIAN (TEMPORARY)			
CONTROL			⊕	LTW.P	TREE, WELL OR WALL	⊕	IWVTT	WIRELESS VIDEO TRANSMITTER	⊕	METS.P.T	EASEMENT, TEMPORARY	⊕	TWZWL.P	WARNING LIGHT			
			⊕	LUKP	UNKNOWN POINT	⊕	MEPS.P.T	EASEMENT, PERMANENT	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	TWZWV.P	WORK VEHICLE			
△	CBP	BASELINE, POINT	⊕	MEPS.P.T	EASEMENT, PERMANENT	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	TWZWVA.P	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR			
⊕	CBPOL	BASELINE, POINT ON LINE	⊕	METS.P.T	EASEMENT, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY						
⊕	CBSP	BASELINE, SPUR POINT	⊕	METS.P.T	EASEMENT, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY						
⊕	CBTP	BASELINE, TIE POINT	⊕	METS.P.T	EASEMENT, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY						
⊕	CPBM	BENCHMARK	⊕	METS.P.T	EASEMENT, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY						
⊕	CPH	POINT, HORIZ. PHOTOGRAMMETRY	⊕	METS.P.T	EASEMENT, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY						
⊕	CPSM	POINT, SURVEY MARKER, PERM.	⊕	METS.P.T	EASEMENT, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY						
⊕	CPSV	POINT, VERT., PHOTOGRAMMETRY	⊕	METS.P.T	EASEMENT, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY						
			1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).														
			2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).														
			3. FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.														
			4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE DRAWINGS).														
			5. MAPPING FEATURES NOT INCLUDED ON THE LEGEND SHEET DO NOT HAVE A UNIQUE SYMBOLOGY (SUCH AS THE PAVEMENT EDGE, PAVEMENT EDGE OF TRAVEL WAY) AND SHOULD BE LABELED ON THE PLANS.														
			6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.														

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

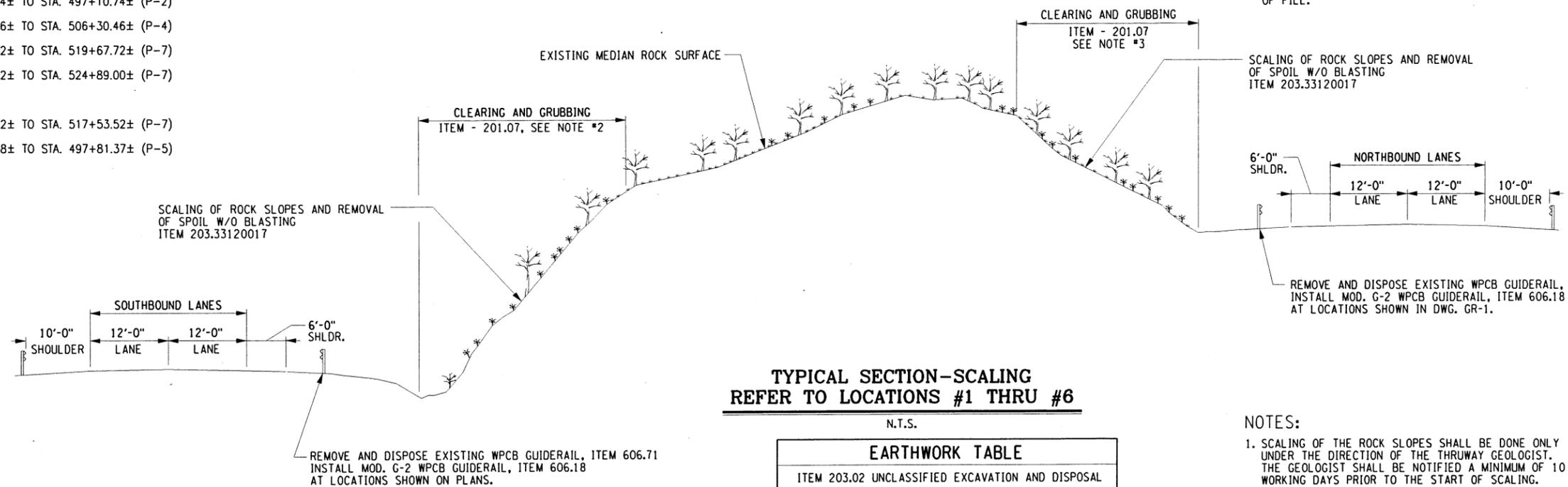
Thruway Authority Canal Corporation	TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
	LOCATION OF PROJECT MP 115.0 TO MP 116.1 GREENE COUNTY	DATE: 9/30/16
	TITLE OF DRAWING POINT SYMBOLOGY	DRAWING NUMBER: LEG-2

FILED: C.KANEG
 CHECKED BY: J. PEGARELLA
 DRAFTED BY: TA
 CHECKED BY: J. PEGARELLA
 DESIGNED BY: C.KANEG
 DESIGN SUPERVISOR: A. MASTROJANNI



- NOTES:**
1. THE FACE OF THE EXISTING ROCK IS AS SHOWN ON THE ROCK FACE CROSS SECTIONS AND WAS PLOTTED FROM CLOSE RANGE PHOTOGRAMMETRY. FOR PAYMENT PURPOSES, THIS IS ESTABLISHED AS THE EXISTING FACE OF ROCK. THE DIFFERENCE BETWEEN THE EXISTING FACE OF ROCK AND THE DESIGNATED FINAL ROCK FACE SHALL BE USED TO DETERMINE THE PAY QUANTITIES FOR ITEM 203.02. NO ADDITIONAL MEASUREMENTS FOR ROCK EXCAVATION WILL BE TAKEN UNLESS ORDERED BY THE ENGINEER.
 2. TEMPORARY CONCRETE BARRIER AND TEMPORARY ROCK CATCHMENT BARRIER ARE NOT SHOWN IN THIS SECTION.
 3. AT LOCATIONS WHERE ROCK REMOVAL WILL OCCUR THE CONTRACTOR SHALL NOT BE REQUIRED TO GRUB PRIOR TO BLASTING. LOCATIONS TO BE FILLED SHALL BE GRUBBED PRIOR TO PLACEMENT OF FILL.

- ITEM 203.33120017 - ROCK SCALING LOCATIONS:**
- NORTHBOUND:**
- LOCATION #1 STA. 494+46.74± TO STA. 497+10.74± (P-2)
 - LOCATION #2 STA. 502+34.46± TO STA. 506+30.46± (P-4)
 - LOCATION #3 STA. 518+09.32± TO STA. 519+67.72± (P-7)
 - LOCATION #4 STA. 520+71.32± TO STA. 524+89.00± (P-7)
- SOUTHBOUND:**
- LOCATION #5 STA. 520+17.52± TO STA. 517+53.52± (P-7)
 - LOCATION #6 STA. 506+84.58± TO STA. 497+81.37± (P-5)



- NOTES:**
1. SCALING OF THE ROCK SLOPES SHALL BE DONE ONLY UNDER THE DIRECTION OF THE THRUWAY GEOLOGIST. THE GEOLOGIST SHALL BE NOTIFIED A MINIMUM OF 10 WORKING DAYS PRIOR TO THE START OF SCALING.
 2. TEMPORARY CONCRETE BARRIER IS NOT SHOWN IN THIS SECTION.
 3. AT LOCATIONS WHERE ROCK SCALING WILL OCCUR THE CONTRACTOR SHALL CLEAR AND GRUB THE LIMITS PRIOR TO CONDUCTING SCALING OPERATIONS. LIMITS TO INCLUDE AN ADDITIONAL 50 FEET AT BOTH ENDS AND 20 FEET BEYOND THE TOP OF THE ROCK SLOPE. ADDITIONAL CLEARING AND GRUBBING SHALL BE AS DIRECTED BY THE E.I.C.

**TYPICAL SECTION-ROCK CUT
STA. 524+89± TO STA. 542+64± NB & SB
N.T.S.**

**TYPICAL SECTION-SCALING
REFER TO LOCATIONS #1 THRU #6
N.T.S.**

EARTHWORK TABLE	
ITEM 203.02 UNCLASSIFIED EXCAVATION AND DISPOSAL	
ROCK AND OVERBURDEN	109,552.0 CY
MISCELLANEOUS EXCAVATION	200.0 CY
TOTAL 109,752.0 CY	
ITEM 203.03 EMBANKMENT IN PLACE	
PLACEMENT OF SAND CUSHION	650.0 CY
REMOVAL OF SAND CUSHION	650.0 CY
CONSTRUCT MEDIAN SLOPES	1,804.0 CY
TOTAL 3,104.0 CY	

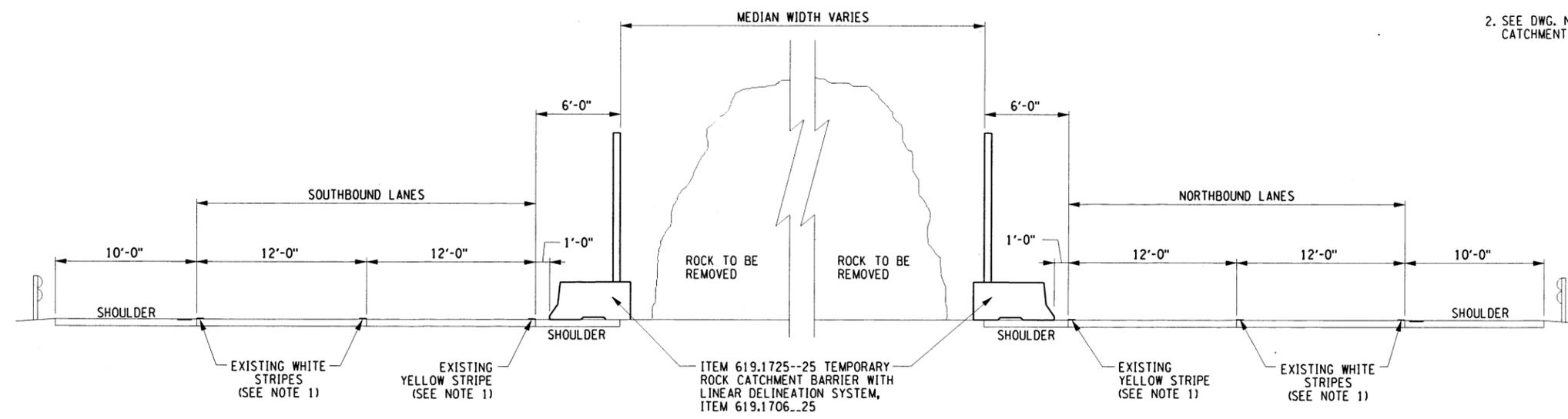
ALTERED ON:	AFFIXED ON: 10/11/16
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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM

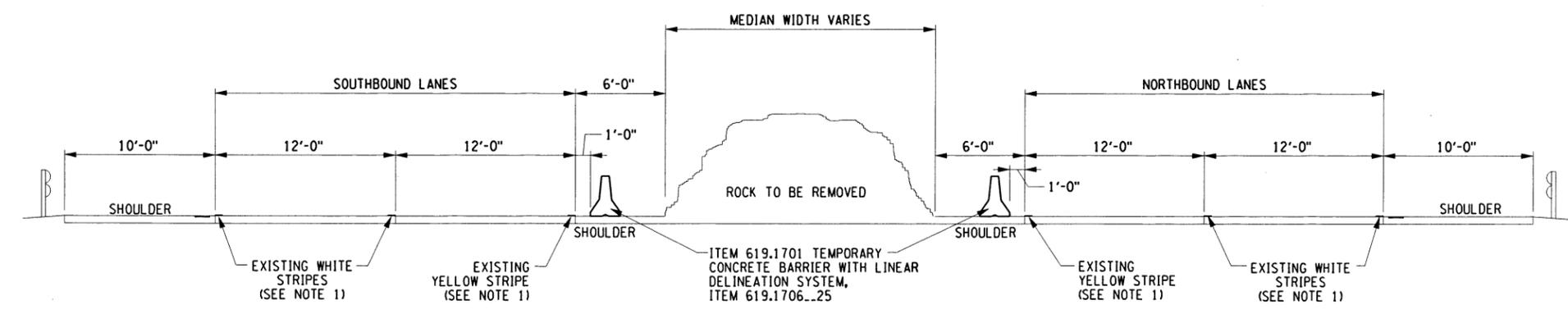
Thruway Authority Canal Corporation	TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
	LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING TYPICAL SECTION ROCK REMEDIATION	DRAWING NUMBER: TS-1	

- NOTES:
- EXISTING PAVEMENT MARKINGS SHALL BE REPLACED A.O.B.E. IF DAMAGED DURING CONSTRUCTION OPERATIONS. SEE DWG. NO. PMA-1 FOR STRIPING DETAILS. PAY UNDER ITEMS 685.1707--25 AND 685.1708--25.
 - SEE DWG. NO. TRCB-1 TO TRCB-3 FOR TEMPORARY ROCK CATCHMENT BARRIER DETAILS.



**TYPICAL SECTION - ROADWAY
TEMPORARY ROCK CATCHMENT BARRIER**

SCALE: N.T.S.
SECTION TYPICAL:
STA 531+93.20 TO STA. 540+68.20 NB
STA. 540+36.79 TO STA. 528+11.79 SB



**TYPICAL SECTION - ROADWAY
TEMPORARY CONCRETE BARRIER**

SCALE: N.T.S.
SECTION TYPICAL:
STA. 489+96.38 TO STA. 531+93.20 NB
STA. 540+68.20 TO STA. 559+73.59 NB
STA. 545+64.80 TO STA. 540+36.79 SB
STA. 528+11.79 TO STA. 490+55.43 SB

FILED BY: C.KANEG
 CHECKED BY: C.KANEG
 DRAFTED BY: TA
 CHECKED BY: J.PEGARELLA
 DESIGNED BY: C.KANEG
 DESIGN SUPERVISOR: A. MASTROIANNI

ALTERED ON:	AFFIXED ON: 9/26/16
SIGNATURE: STAMP:	SIGNATURE: STAMP:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

Thruway Authority Canal Corporation	TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
	LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
	TITLE OF DRAWING TYPICAL SECTIONS TEMP. CONCRETE BARRIER & TEMP. ROCK CATCH. BARRIER	DRAWING NUMBER: TS-2

ENVIRONMENTAL NOTES:

1. TREE REMOVAL AND PROTECTION OF WETLANDS: TREE REMOVAL SHALL BE COMPLETED BY EITHER CLEARING AND GRUBBING OR SELECTIVE CUTTING METHODS, AND ONLY AS INDICATED ON THE PLANS. CLEARING AND GRUBBING OF TREES IN FEDERAL WETLANDS SHOULD BE AVOIDED AND MINIMIZED WHENEVER POSSIBLE. RIGHT-OF-WAY, SAFETY, AND DRAINAGE ISSUES SHOULD NOT BE COMPROMISED BY TREE CLEARING AVOIDANCE AND MINIMIZATION EFFORTS. THE CONTRACTOR SHALL TAKE CARE NOT TO ENTER WETLAND AREAS ADJACENT TO DESIGNATED TREE CLEARING AND SELECTIVE REMOVAL LOCATIONS. ACTIVITIES THAT ARE NOT TO ENCR OACH ON ADJACENT WETLANDS INCLUDE, BUT ARE NOT LIMITED TO, MOVEMENT OF VEHICLES, CONSTRUCTION STAGING, DISPOSAL OF WOOD CHIPPINGS, PLACEMENT OF EROSION CONTROL FEATURES, AND SPREADING OF SPOILED SOIL.
2. DUE TO THE POSSIBILITY OF THE STATE AND FEDERALLY LISTED ENDANGERED SPECIES, INDIANA BAT (MYOTIS SODALIS) OCCURRING IN THE PROJECT VICINITY, ONLY TREES DESIGNATED FOR ELIMINATION IN THE PROJECT PLANS SHALL BE REMOVED, AND ADJACENT TREES LEFT UNHARMED. THE CONTRACTOR SHALL SCHEDULE CUTTING TREES LARGER THAN 4 INCHES IN DIAMETER AT BRESTA HEIGHT (DBH) BETWEEN OCTOBER 1ST AND MARCH 31ST. OUTSIDE OF THESE DATES, THE INDIANA BAT MAY BE UTILIZING TREES OF THIS SIZE FOR ROOSTING AND BREEDING PURPOSES, AND TREES SHALL NOT BE DISTURBED OR HARMED. PRIOR TO OR DURING CONSTRUCTION, TREE CLEARING LIMITS AND INDIVIDUAL TREES SHALL BE MARKED BY THE CONTRACTOR AND APPROVED BY THE THRUWAY PROJECT ENGINEER (TPE) PRIOR TO REMOVAL.

UTILITY NOTES:

1. 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.
2. IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, HE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE AND MAY NOT CEASE HIS WORK OPERATION UNTIL SERVICE IS RESTORED.
3. 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.

EXISTING MILE MARKERS / TENTH-MILE MARKERS:

NOTE: APPROXIMATE LOCATIONS OF EXISTING MILE MARKERS AND TENTH-MILE MARKERS ARE SHOWN ON THE PLANS. THE MARKER LOCATIONS SHOWN ON THE PLANS ARE NOT TO BE USED FOR LAYING OUT LENGTH-OF-NEED FOR PROPOSED GUIDE RAIL OR MEDIAN BARRIER. ALL PROPOSED GUIDE RAIL SHOULD BE STAKED OUT FROM EXISTING FIXED FEATURES AS SHOWN IN THE PLANS.

GENERAL NOTES:

1. MATERIAL AND CONSTRUCTION SPECIFICATIONS: NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (U.S. CUSTOMARY) DATED AS SHOWN ON THE FRONT COVER OF THE PROPOSAL, EXCEPT AS MODIFIED IN THESE PLANS AND THE PROPOSAL.
2. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE HIS WORK WITH OTHER CONTRACTORS AND AUTHORITY MAINTENANCE FORCES, AND HE SHALL SCHEDULE HIS OPERATIONS SO AS TO CAUSE A MINIMUM DISRUPTION TO TRAFFIC.
3. 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. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND STATE REGULATIONS THAT APPLY TO THE AREA CHOSEN FOR THE DISPOSAL OF THIS MATERIAL. ALL COSTS ASSOCIATED WITH THE SPOIL AREA AND REMOVAL OF SPOIL MATERIAL SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.

RECONSTRUCTION NOTES:

1. 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.

RECONSTRUCTION NOTES CONTINUED:

2. 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.
3. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGE TO THE EXISTING FACILITY CAUSED BY HIS OPERATIONS WHICH IS NOT INCLUDED AS PART OF THE INTENDED WORK. ALL DAMAGE TO THE EXISTING FACILITY WHICH IS NOT PART OF THE INTENDED WORK SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT COST TO THE AUTHORITY, AND TO THE SATISFACTION OF THE ENGINEER.
4. THE CONTRACTOR SHALL CONDUCT HIS REMOVAL OPERATIONS TO THE SATISFACTION OF THE ENGINEER SO AS NOT TO UNDULY DISTURB UNDERLYING MATERIALS WHICH ARE TO REMAIN IN PLACE. 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.

FLAGGING NOTE:

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE TRAFFIC CONTROL AT THE CATSKILL INTERCHANGE (INT 21, MP 113.89+/-) DURING BLASTING. A FLAGGER SHALL BE REQUIRED TO STOP TRAFFIC ON THE NORTH BOUND ON RAMP PRIOR TO BLASTING. COST OF PROVIDING FLAGGERS TO BE INCLUDED IN BID PRICE FOR ITEM 619.01.

DUST CONTROL NOTE:

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTROL DUST AT ALL TIMES WITHIN THE PROJECT LIMITS. AT THE DIRECTION OF THE E.I.C., THE CONTRACTOR SHALL APPLY DUST CONTROL MATERIAL TO ALL SURFACES PRODUCING DUST. COST TO BE INCLUDED IN THE BID PRICE FOR ITEM 619.01.

REMOVAL, EXCAVATION AND BACKFILL NOTES:

1. 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.
2. 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.
3. **STREAM CONSERVATION:** THE CONTRACTOR SHALL CONDUCT HIS/HER OPERATIONS TO THE SATISFACTION OF THE ENGINEER TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO ANY STREAM FROM POLLUTION BY DEBRIS, SEDIMENT OR OTHER FOREIGN MATERIAL, OR FROM THE MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS. HE/SHE SHALL NOT RETURN DIRECTLY TO A STREAM, OR TO A DITCH IMMEDIATELY FLOWING INTO A STREAM, ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSES OR OTHER SIMILAR OPERATIONS WHICH COULD CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES. IF HE/SHE USES WATER FROM A STREAM, HE/SHE SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH LIFE DOWNSTREAM. THESE TEMPORARY MEASURES SHALL BE REMOVED AND THE AREA RESTORED AT THE COMPLETION OF THE WORK.

WARNING: UNDERGROUND FIBER OPTIC CONDUITS:

THE THRUWAY'S FIBER OPTIC "BACK BONE" IS LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT. THE APPROXIMATE LOCATION IS SHOWN ON THE DRAWINGS. THE CONTRACTOR IS ADVISED TO CONTACT DIG SAFELY NY AT 1-800-962-7962 PRIOR TO ANY EXCAVATION, DRAINAGE OR GUIDE RAIL WORK.

BLASTING NOTES:

BLASTING SHALL BE PERFORMED IN ONE LIFT. NO BENCHING WILL BE ALLOWED. THE MAXIMUM LENGTH OF BLAST SECTION SHALL BE 30 FEET. ALL BLASTED MATERIAL SHALL BE EXCAVATED AND REMOVED BEFORE NEXT BLAST.

DETONATIONS SHALL BE PERMITTED MONDAY THROUGH THURSDAY BETWEEN 10:00 AM AND 2:00 PM. THE HOLIDAY RESTRICTIONS CONTAINED IN THE "SCHEDULE AND SUSPENSION OF WORK" SHALL APPLY.

DURING BLASTING OPERATIONS, THE CONTRACTOR SHALL PLACE AND MAINTAIN WARNING SIGNS ALONG THE THRUWAY AND THE CATSKILL INTERCHANGE 21 AT MILEPOST 113.89+/- TO ALERT MOTORISTS THAT EXPLOSIVES ARE BEING USED. THE SIGN TEXT AND PLACEMENT LOCATION SHALL CONFORM TO MUTCD AND THE CONTRACT DOCUMENTS. A SERIES OF THREE SIGNS ALONG EACH DIRECTION OF TRAVEL (W22-1, W22-2 AND W22-3) SHALL BE USED. THESE SIGNS SHALL BE DISPLAYED WHENEVER EXPLOSIVE MATERIALS ARE PRESENT WITHIN THE PROJECT LIMITS. COST OF ADDITIONAL SIGNS TO BE INCLUDED IN BID PRICE FOR ITEM 619.01.

MISCELLANEOUS NOTES:

1. 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.

FILED BY: C.KANEK
 CHECKED BY: J. PEGARELLA
 DRAFTED BY: TA
 CHECKED BY: J. PEGARELLA
 DESIGNED BY: C.KANEK
 DESIGN SUPERVISOR: A. MASTROIANNI

ALTERED ON:	AFFIXED ON: 9/26/16
SIGNATURE: STAMP:	SIGNATURE: STAMP:



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



Thruway Authority Canal Corporation

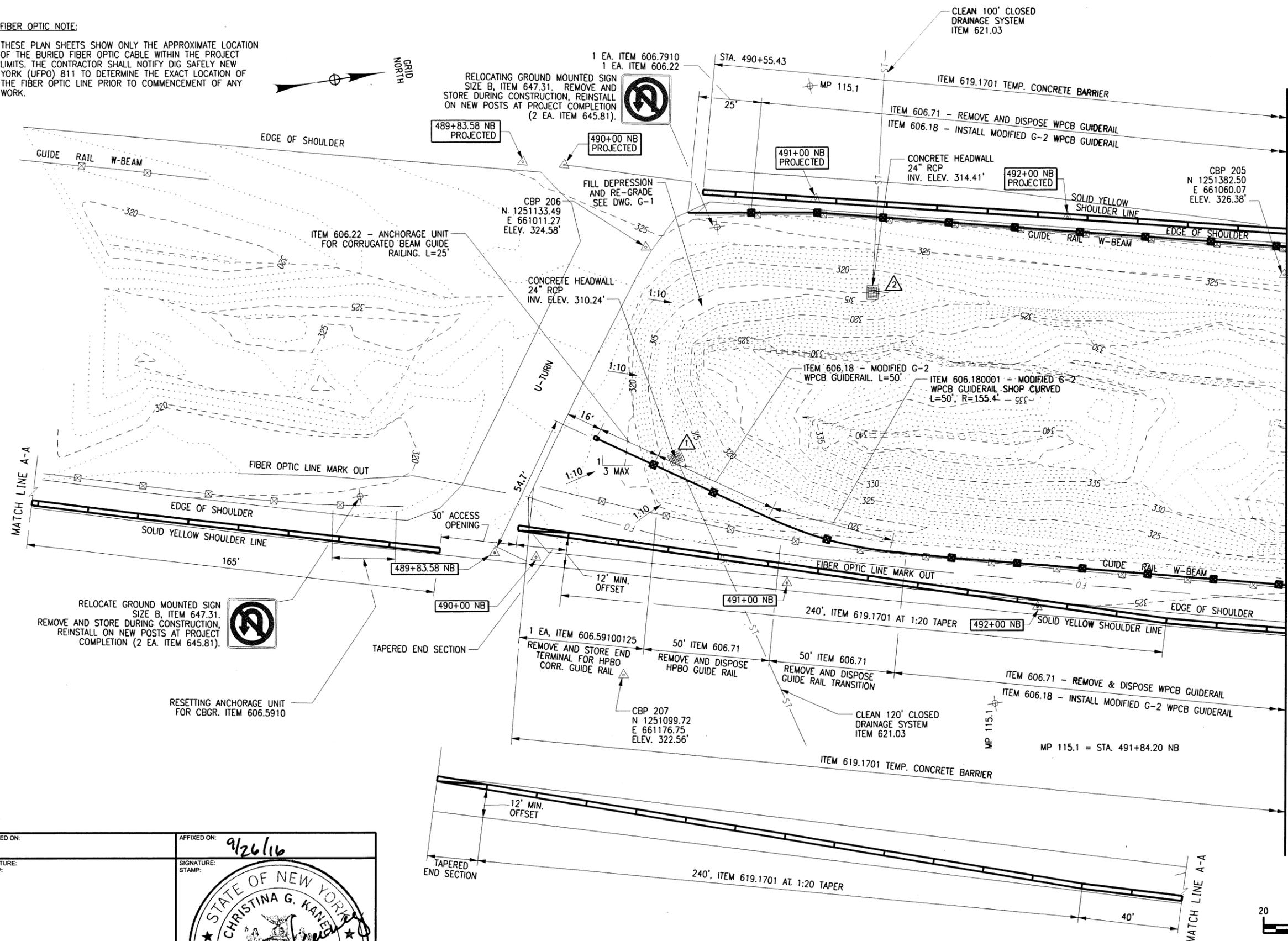
TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING GENERAL NOTES	DRAWING NUMBER: GN-1

FIBER OPTIC NOTE:

THESE PLAN SHEETS SHOW ONLY THE APPROXIMATE LOCATION OF THE BURIED FIBER OPTIC CABLE WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK (UFPO) 811 TO DETERMINE THE EXACT LOCATION OF THE FIBER OPTIC LINE PRIOR TO COMMENCEMENT OF ANY WORK.



FILED BY: C.KANEG
 CHECKED BY: J. PEGARELLA
 DRAFTED BY: TA
 DESIGNED BY: C.KANEG
 DESIGN SUPERVISOR: A. MASTROIANNI



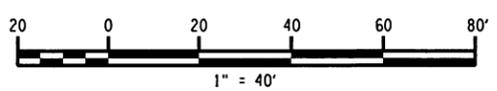
WORK ZONE TRAFFIC CONTROL (WZTC) NOTES:

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2. REFERENCE DWG. NO. SCSD FOR WZTC SIGNS AND DELINEATION REQUIREMENTS WHEN USING TEMPORARY CONCRETE BARRIER AND TEMPORARY ROCK CATCHMENT BARRIER. SIGNAGE AND DELINEATION IS REQUIRED IN BOTH THE NORTHBOUND AND SOUTHBOUND DIRECTIONS.

MATCH LINE SEE DWG. NO. P-2

LEGEND

- DRAINAGE STRUCTURE REFER TO DWGS. DT-1 AND DT-2.
- GUIDE RAIL REMOVAL/IMPROVEMENTS REFER TO DWG. GR-1
- TEMPORARY CONCRETE BARRIER W/ LINEAR DELINEATION SYSTEM. ITEMS 619.1701 AND 619.1706--25
- TEMPORARY ROCK CATCHMENT BARRIER W/ LINEAR DELINEATION SYSTEM (REQUIRED ON TANGENT BARRIER RUNS). ITEMS 619.1725--25 AND 619.1706--25
- DRAINAGE STRUCTURE INLET PROTECTION. GRAVEL BAG-TEMP. ITEM 209.1702. WHERE REQUIRED, COST OF ORANGE BARRIER FENCING TO BE INCLUDED UNDER ITEM 619.01



ALTERED ON:

AFFIXED ON: 9/26/16

SIGNATURE STAMP:

SIGNATURE STAMP:



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REVISIONS			
DATE	DESCRIPTION	BY	SYM



TITLE OF PROJECT	ROCK REMEDIATION	CONTRACT NUMBER:	TAA 16-41
LOCATION OF PROJECT	M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE:	9/30/16
TITLE OF DRAWING	GENERAL PLAN	DRAWING NUMBER:	P-1

FILED
 CHECKED BY: C.KANEG
 DRAFTED BY: TA
 CHECKED BY: J. PEGARELLA
 DESIGNED BY: C.KANEG
 DESIGN SUPERVISOR: A. MASTROIANNI
 MATCH LINE A-A

MP 115.230 = STA. 497+81.37 SB

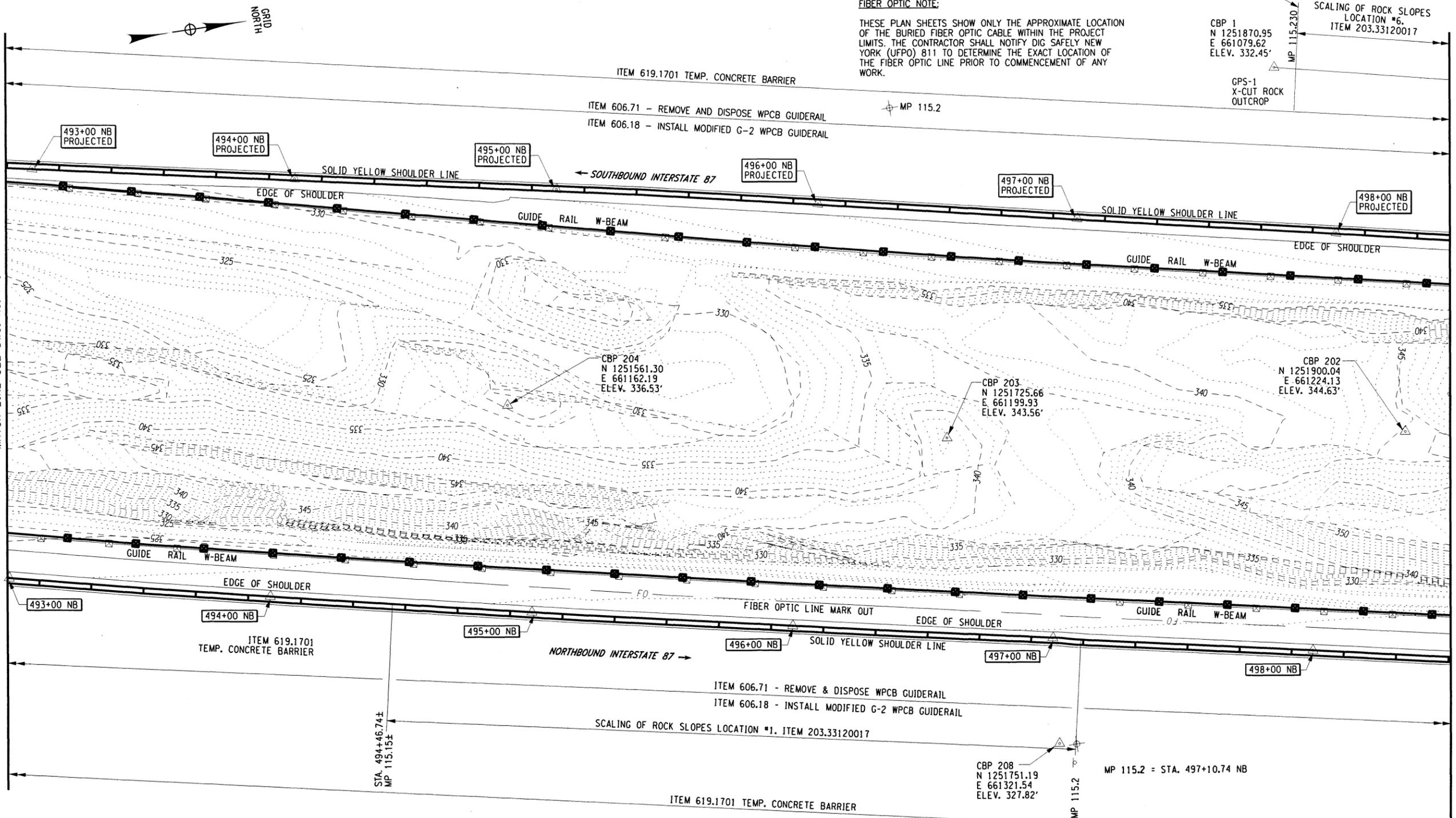
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CBP 1
 N 1251870.95
 E 661079.62
 ELEV. 332.45'
 GPS-1
 X-CUT ROCK
 OUTCROP

SCALING OF ROCK SLOPES
 LOCATION #6.
 ITEM 203.33120017

MATCH LINE SEE DWG. NO. P-1

MATCH LINE SEE DWG. NO. P-3

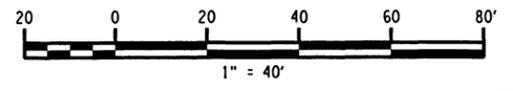


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LEGEND

- DRAINAGE STRUCTURE REFER TO DWG. DT-1
- TEMPORARY ROCK CATCHMENT BARRIER W/ LINEAR DELINEATION SYSTEM (REQUIRED ON TANGENT BARRIER RUNS). ITEMS 619.1725--25 AND 619.1706--25
- GUIDE RAIL REMOVAL/IMPROVEMENTS REFER TO DWG. GR-1
- DRAINAGE STRUCTURE INLET PROTECTION. GRAVEL BAG-TEMP. ITEM 209.1702. WHERE REQUIRED, COST OF ORANGE BARRIER FENCING TO BE INCLUDED UNDER ITEM 619.01
- TEMPORARY CONCRETE BARRIER W/ LINEAR DELINEATION SYSTEM. ITEMS 619.1701 AND 619.1706--25



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING GENERAL PLAN	DRAWING NUMBER: P-2

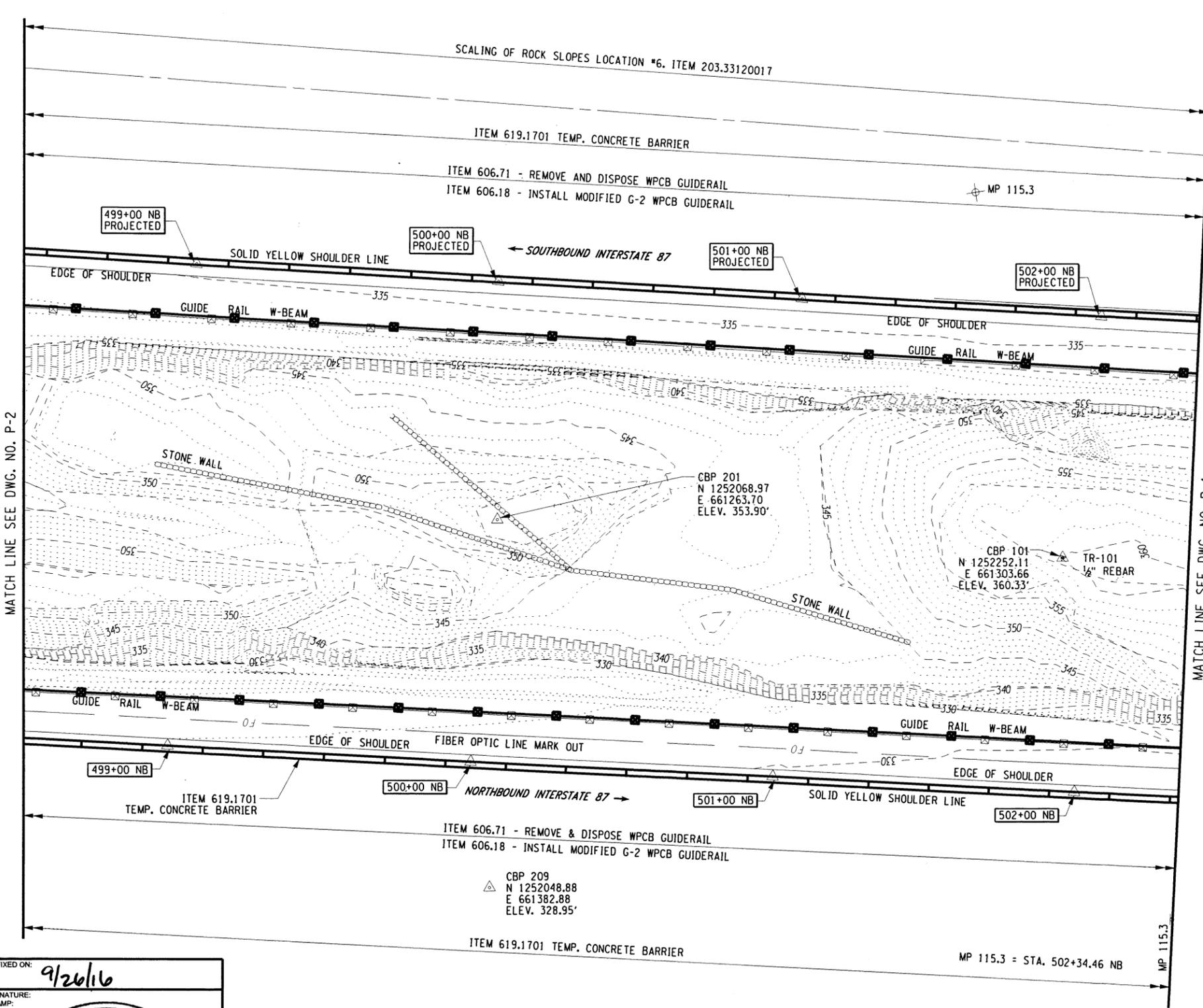
ALTERED ON: _____

AFFIXED ON: 9/26/16

SIGNATURE STAMP: _____

SIGNATURE STAMP: _____

FILED BY: C. KANEG
 CHECKED BY: J. PEGARELLA
 DRAFTED BY: TA
 DESIGNED BY: C. KANEG
 DESIGN SUPERVISOR: A. MASTROIANNI



WORK ZONE TRAFFIC CONTROL (WZTC) NOTES:

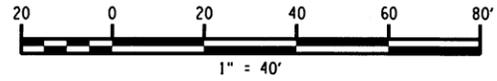
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FIBER OPTIC NOTE:

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LEGEND

- DRAINAGE STRUCTURE REFER TO DWG. DT-1
- GUIDE RAIL REMOVAL/IMPROVEMENTS REFER TO DWG. GR-1
- TEMPORARY CONCRETE BARRIER W\ LINEAR DELINEATION SYSTEM. ITEMS 619.1701 AND 619.1706--25
- TEMPORARY ROCK CATCHMENT BARRIER W\ LINEAR DELINEATION SYSTEM (REQUIRED ON TANGENT BARRIER RUNS). ITEMS 619.1725--25 AND 619.1706--25
- DRAINAGE STRUCTURE INLET PROTECTION. GRAVEL BAG-TEMP. ITEM 209.1702. WHERE REQUIRED, COST OF ORANGE BARRIER FENCING TO BE INCLUDED UNDER ITEM 619.01



ALTERED ON: SIGNATURE: STAMP:	AFFIXED ON: 9/26/16
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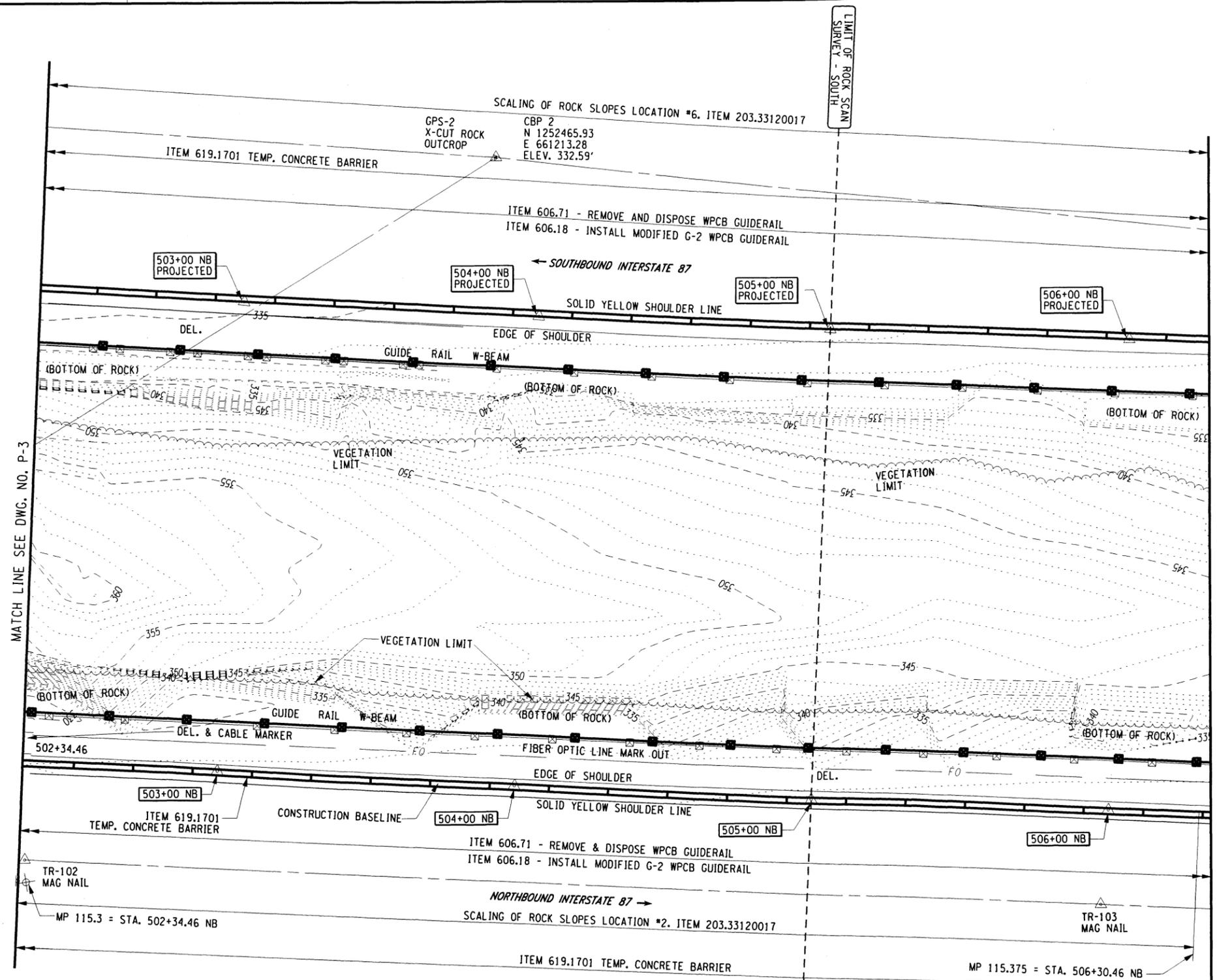
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

Thruway Authority | **Canal Corporation**

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING GENERAL PLAN	DRAWING NUMBER: P-3

FILE
 CHECKED BY: C.KANEK
 DRAFTED BY: TA
 CHECKED BY: J. PEGARELLA
 DESIGNED BY: C.KANEK
 DESIGN SUPERVISOR: A. MASTROIANNI



WORK ZONE TRAFFIC CONTROL (WZTC) NOTES:

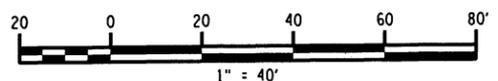
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FIBER OPTIC NOTE:

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LEGEND

- DRAINAGE STRUCTURE REFER TO DWG. DT-1
- GUIDE RAIL REMOVAL/IMPROVEMENTS REFER TO DWG. GR-1
- TEMPORARY CONCRETE BARRIER W/ LINEAR DELINEATION SYSTEM. ITEMS 619.1701 AND 619.1706--25
- TEMPORARY ROCK CATCHMENT BARRIER W/ LINEAR DELINEATION SYSTEM (REQUIRED ON TANGENT BARRIER RUNS). ITEMS 619.1725--25 AND 619.1706--25
- DRAINAGE STRUCTURE INLET PROTECTION. GRAVEL BAG-TEMP. ITEM 209.1702. WHERE REQUIRED, COST OF ORANGE BARRIER FENCING TO BE INCLUDED UNDER ITEM 619.01



ALTERED ON:	AFFIXED ON: 9/26/16
SIGNATURE: STAMP:	SIGNATURE: STAMP:

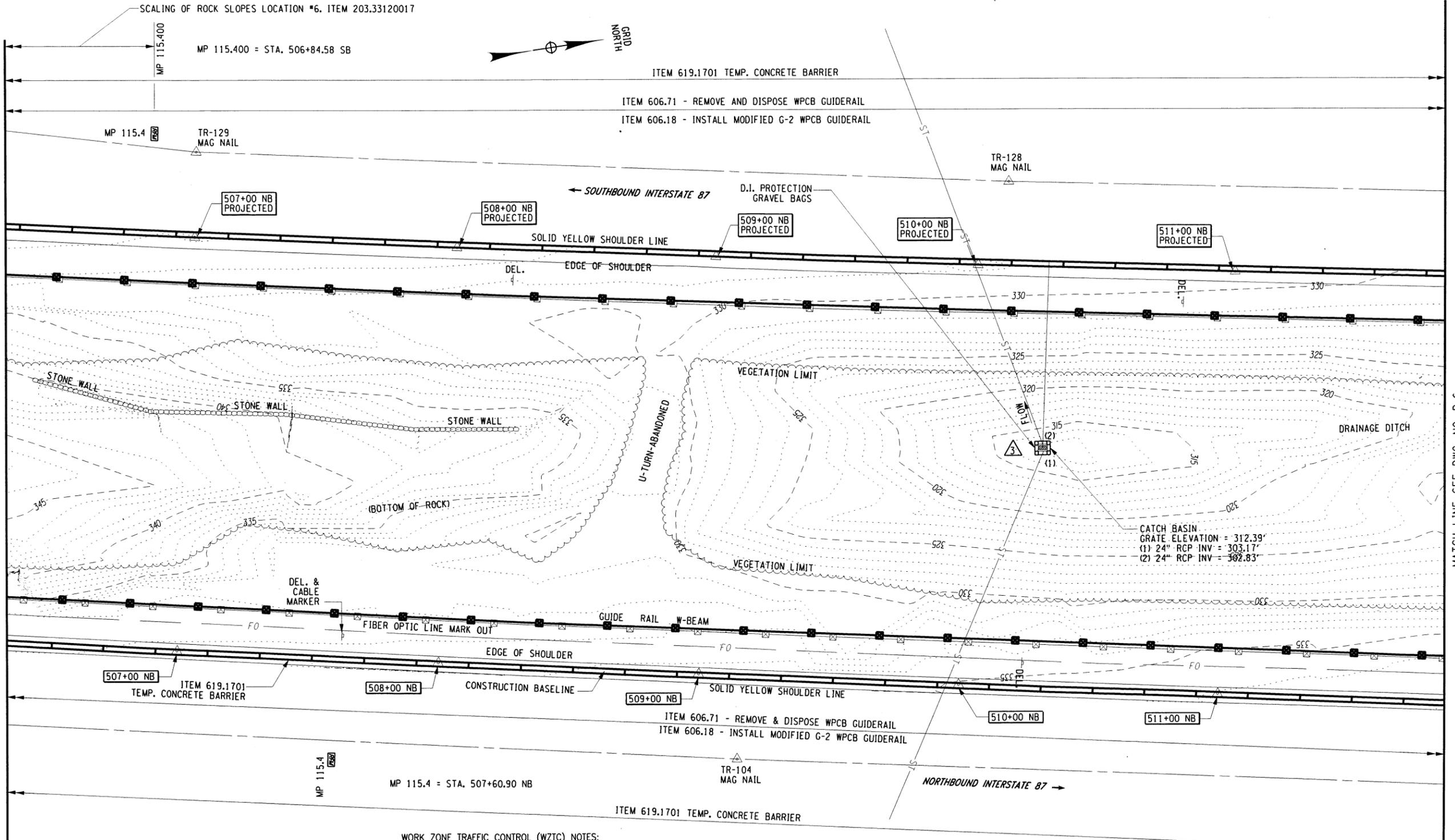
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING GENERAL PLAN	DRAWING NUMBER: P-4

FILED
 CHECKED BY: C.KANEK
 DRAFTED BY: TA
 CHECKED BY: J.PEGARELLA
 DESIGNED BY: C.KANEK
 DESIGN SUPERVISOR: A. MASTROIANNI



WORK ZONE TRAFFIC CONTROL (WZTC) NOTES:

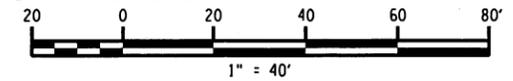
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LEGEND

- DRAINAGE STRUCTURE REFER TO DWG. DT-1
- GUIDE RAIL REMOVAL/IMPROVEMENTS REFER TO DWG. GR-1
- TEMPORARY CONCRETE BARRIER W/ LINEAR DELINEATION SYSTEM. ITEMS 619.1701 AND 619.1706--25
- TEMPORARY ROCK CATCHMENT BARRIER W/ LINEAR DELINEATION SYSTEM (REQUIRED ON TANGENT BARRIER RUNS). ITEMS 619.1725--25 AND 619.1706--25
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ALTERED ON:
SIGNATURE STAMP:

AFFIXED ON: 9/20/16
SIGNATURE STAMP:

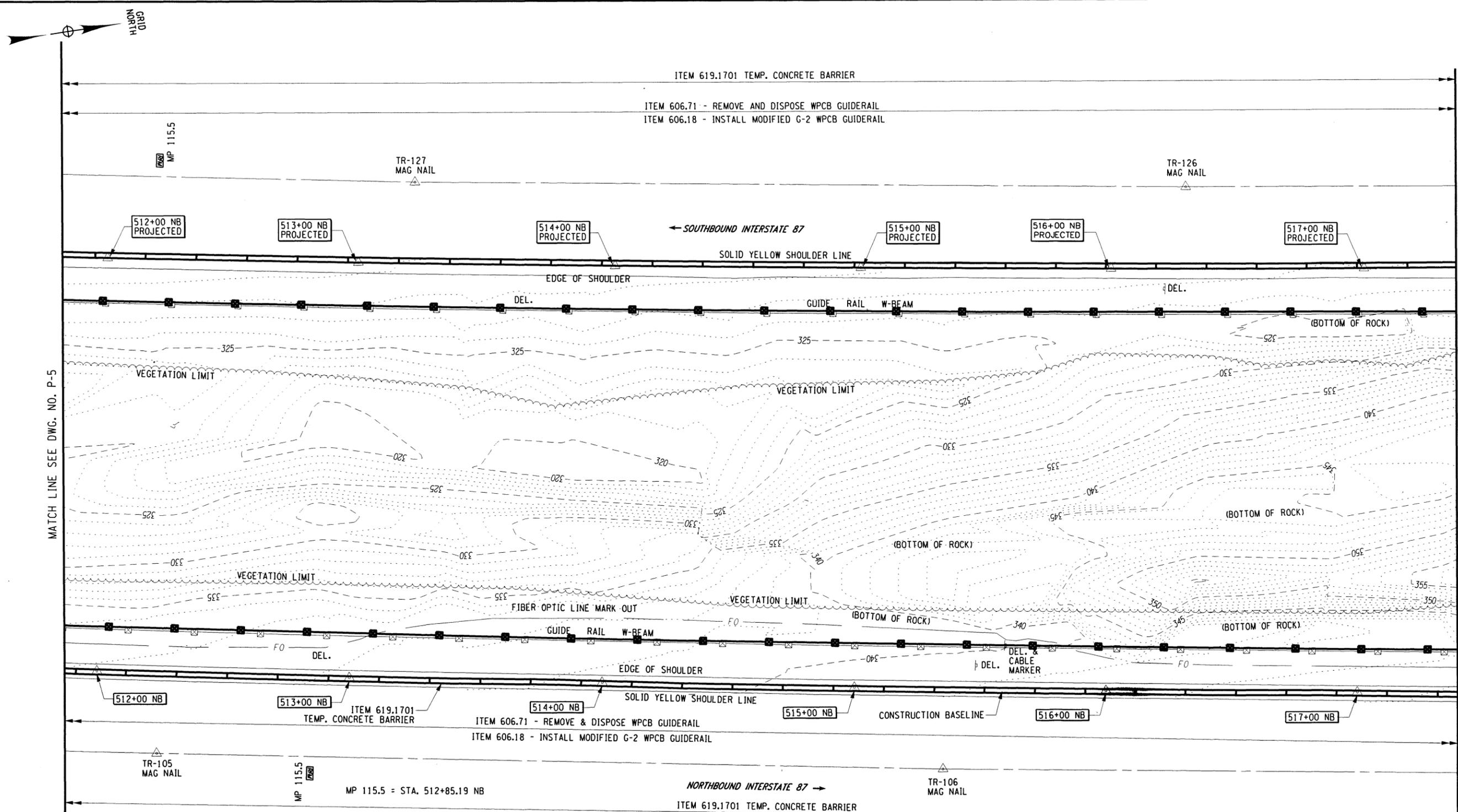
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

Thruway Authority **Canal Corporation**

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING GENERAL PLAN	DRAWING NUMBER: P-5

FILED
 CHECKED BY: C. KANIEG
 DRAFTED BY: TA
 CHECKED BY: J. PEGARELLA
 DESIGNED BY: C. KANIEG
 DESIGN SUPERVISOR: A. MASTROIANNI



WORK ZONE TRAFFIC CONTROL (WZTC) NOTES:

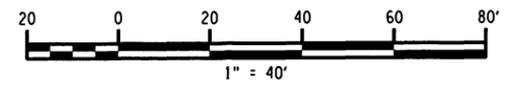
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LEGEND

- DRAINAGE STRUCTURE REFER TO DWG. DT-1
- GUIDE RAIL REMOVAL/IMPROVEMENTS REFER TO DWG. GR-1
- TEMPORARY CONCRETE BARRIER W/ LINEAR DELINEATION SYSTEM, ITEMS 619.1701 AND 619.1706--25
- TEMPORARY ROCK CATCHMENT BARRIER W/ LINEAR DELINEATION SYSTEM (REQUIRED ON TANGENT BARRIER RUNS), ITEMS 619.1725--25 AND 619.1706--25
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FIBER OPTIC NOTE:

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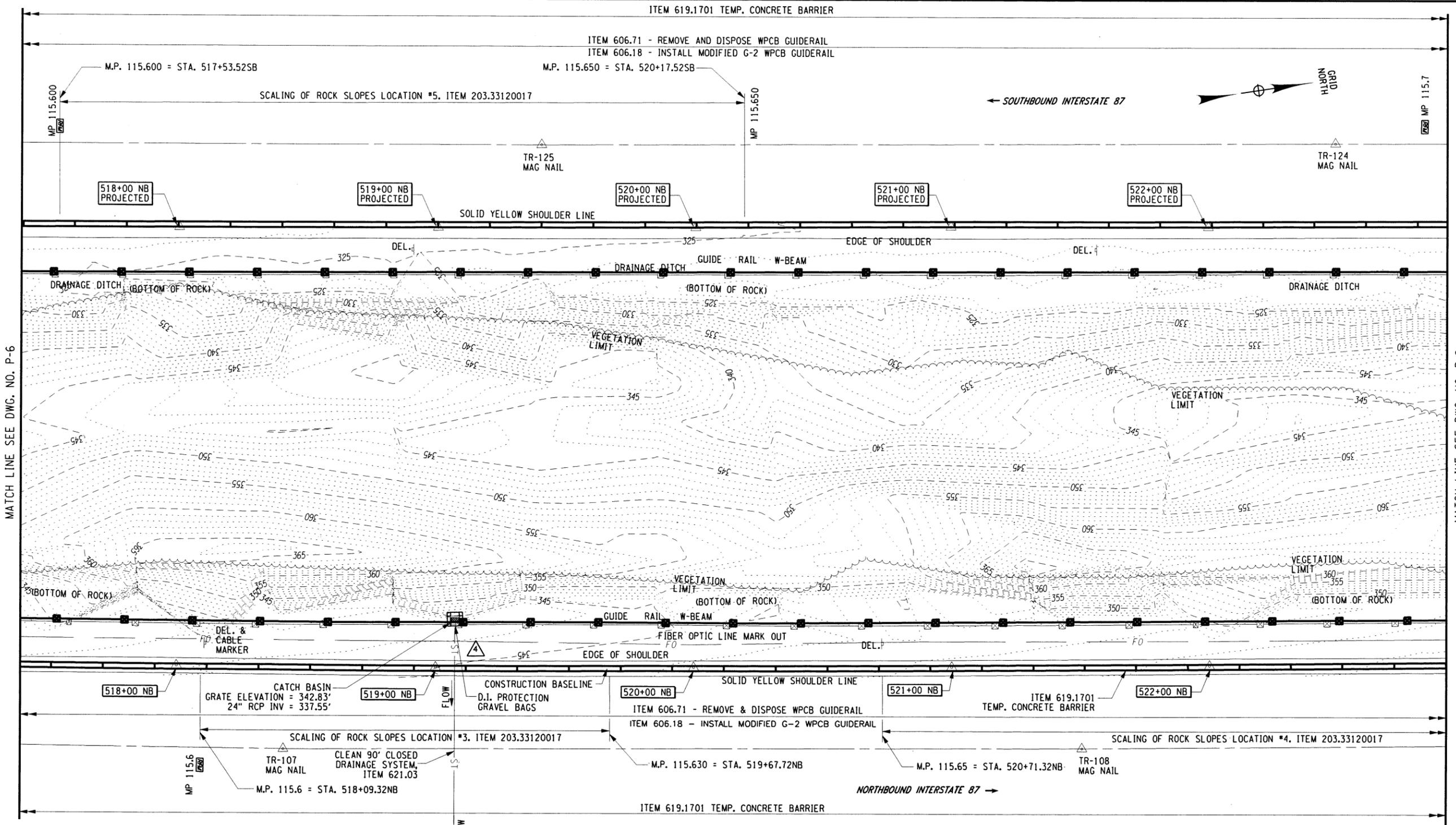
ALTERED ON:	AFFIXED ON: 9/26/16
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

 Thruway Authority Canal Corporation	TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
	LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
	TITLE OF DRAWING GENERAL PLAN	DRAWING NUMBER: P-6

FILED: C.KANEG
 CHECKED BY: J.PEGARELLA
 DRAFTED BY: TA
 CHECKED BY: J.PEGARELLA
 DRAFTED BY: TA
 DESIGNED BY: C.KANEG
 DESIGN SUPERVISOR: A. MASTROIANNI



MATCH LINE SEE DWG. NO. P-6

MATCH LINE SEE DWG. NO. P-8

ALTERED ON: _____

AFFIXED ON: 9/26/16

SIGNATURE: _____

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STAMP: _____

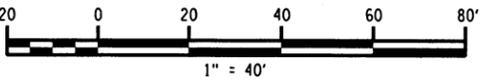
FIBER OPTIC NOTE:

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LEGEND

- DRAINAGE STRUCTURE REFER TO DWG. DT-1
- GUIDE RAIL REMOVAL/IMPROVEMENTS REFER TO DWG. GR-1
- TEMPORARY CONCRETE BARRIER W/ LINEAR DELINEATION SYSTEM. ITEMS 619.1701 AND 619.1706--25
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- DRAINAGE STRUCTURE INLET PROTECTION. GRAVEL BAG-TEMP. ITEM 209.1702. WHERE REQUIRED, COST OF ORANGE BARRIER FENCING TO BE INCLUDED UNDER ITEM 619.01

- WORK ZONE TRAFFIC CONTROL (WZTC) NOTES:**
- THE REQUIRED WORK ZONE TRAFFIC CONTROL SIGNAGE IS NOT SHOWN ON THESE GENERAL PLAN SHEETS. REFER TO THE THRUWAY STANDARD WORK ZONE TRAFFIC CONTROL PLAN SHEETS LOCATED ELSEWHERE IN THE PLAN SET.
 - REFERENCE DWG. NO. SCSD FOR WZTC SIGNS AND DELINEATION REQUIREMENTS WHEN USING TEMPORARY CONCRETE BARRIER AND TEMPORARY ROCK CATCHMENT BARRIER. SIGNAGE AND DELINEATION IS REQUIRED IN BOTH THE NORTHBOUND AND SOUTHBOUND DIRECTIONS.



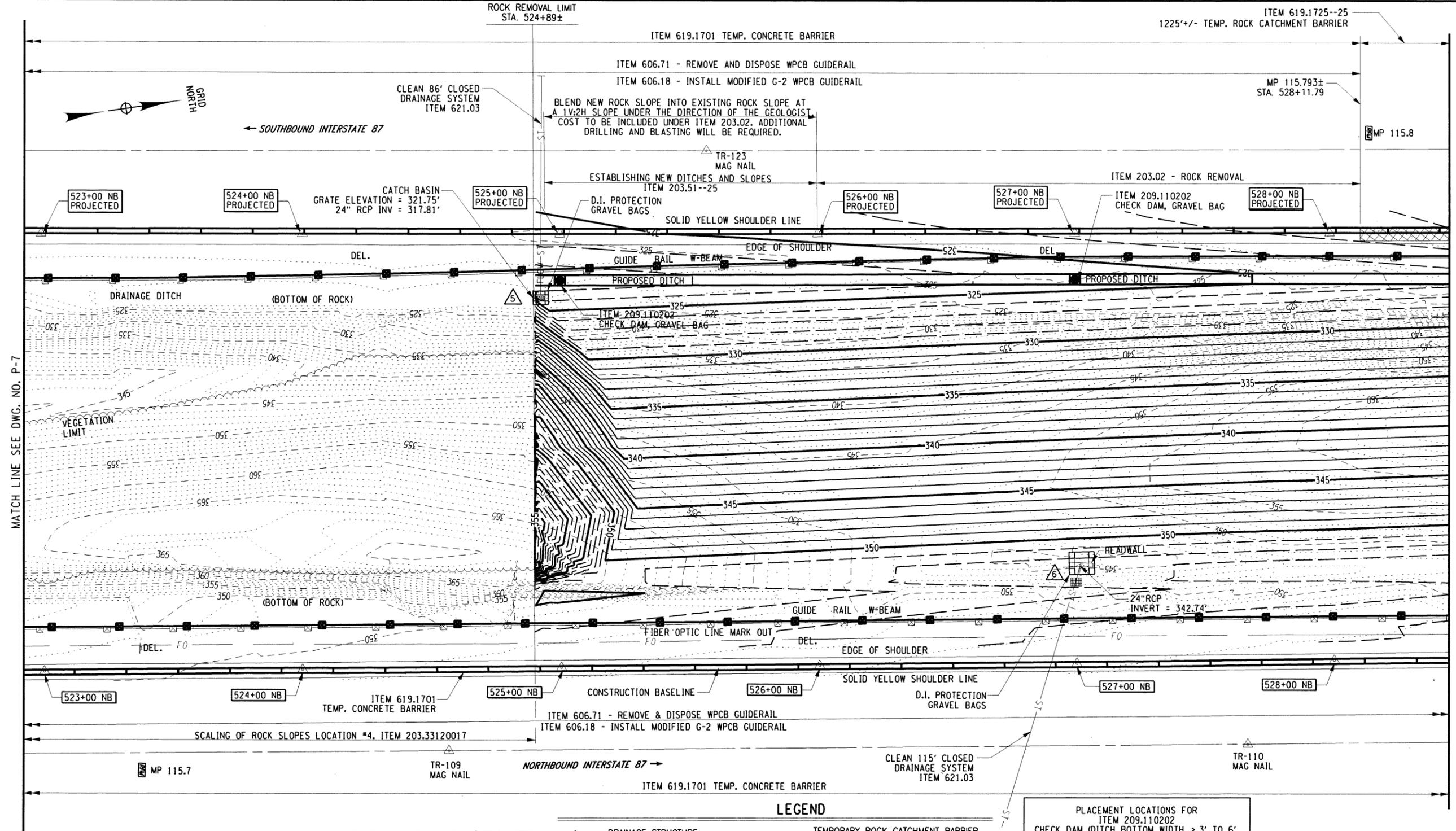
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE 9/30/16
TITLE OF DRAWING GENERAL PLAN	DRAWING NUMBER P-7

FILED BY: C.KANEG
 DRAFTED BY: TA
 CHECKED BY: J. PEGARELLA
 DESIGNED BY: C.KANEG
 DESIGN SUPERVISOR: A. MASTROIANNI



MATCH LINE SEE DWG. NO. P-7

MATCH LINE SEE DWG. NO. P-9

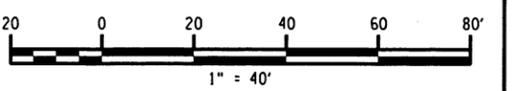
LEGEND

- DRAINAGE STRUCTURE REFER TO DWG. DT-1
- GUIDE RAIL REMOVAL/IMPROVEMENTS REFER TO DWG. GR-1
- TEMPORARY CONCRETE BARRIER W/ LINEAR DELINEATION SYSTEM. ITEMS 619.1701 AND 619.1706--25
- TEMPORARY ROCK CATCHMENT BARRIER W/ LINEAR DELINEATION SYSTEM (REQUIRED ON TANGENT BARRIER RUNS). ITEMS 619.1725--25 AND 619.1706--25
- DRAINAGE STRUCTURE INLET PROTECTION, GRAVEL BAG-TEMP. ITEM 209.1702. WHERE REQUIRED, COST OF ORANGE BARRIER FENCING TO BE INCLUDED UNDER ITEM 619.01

PLACEMENT LOCATIONS FOR ITEM 209.110202 CHECK DAM (DITCH BOTTOM WIDTH > 3' TO 6', GRAVEL BAG TEMP. NEW SB. DITCHLINE)

STATION	DRAWING NUMBER	QUANTITY
525+00	P-8	1.0
527+00	P-8	1.0
529+50	P-9	1.0
531+40	P-9	1.0
533+60	P-9	1.0
535+75	P-10	1.0
538+25	P-10	1.0
541+00	P-11	1.0
544+00	P-11	1.0

FIBER OPTIC NOTE:
 THESE PLAN SHEETS SHOW ONLY THE APPROXIMATE LOCATION OF THE BURIED FIBER OPTIC CABLE WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK (UFPD) 811 TO DETERMINE THE EXACT LOCATION OF THE FIBER OPTIC LINE PRIOR TO COMMENCEMENT OF ANY WORK.



WORK ZONE TRAFFIC CONTROL (WZTC) NOTES:

- THE REQUIRED WORK ZONE TRAFFIC CONTROL PLAN IS NOT SHOWN ON THESE GENERAL PLAN SHEETS. REFER TO THE THRUWAY STANDARD WORK ZONE TRAFFIC CONTROL PLAN SHEETS LOCATED ELSEWHERE IN THE PLAN SET.
- REFERENCE DWG. NO. SCSO FOR WZTC SIGNS AND DELINEATION REQUIREMENTS WHEN USING TEMPORARY CONCRETE BARRIER AND TEMPORARY ROCK CATCHMENT BARRIER. SIGNAGE AND DELINEATION IS REQUIRED IN BOTH THE NORTHBOUND AND SOUTHBOUND DIRECTIONS.

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

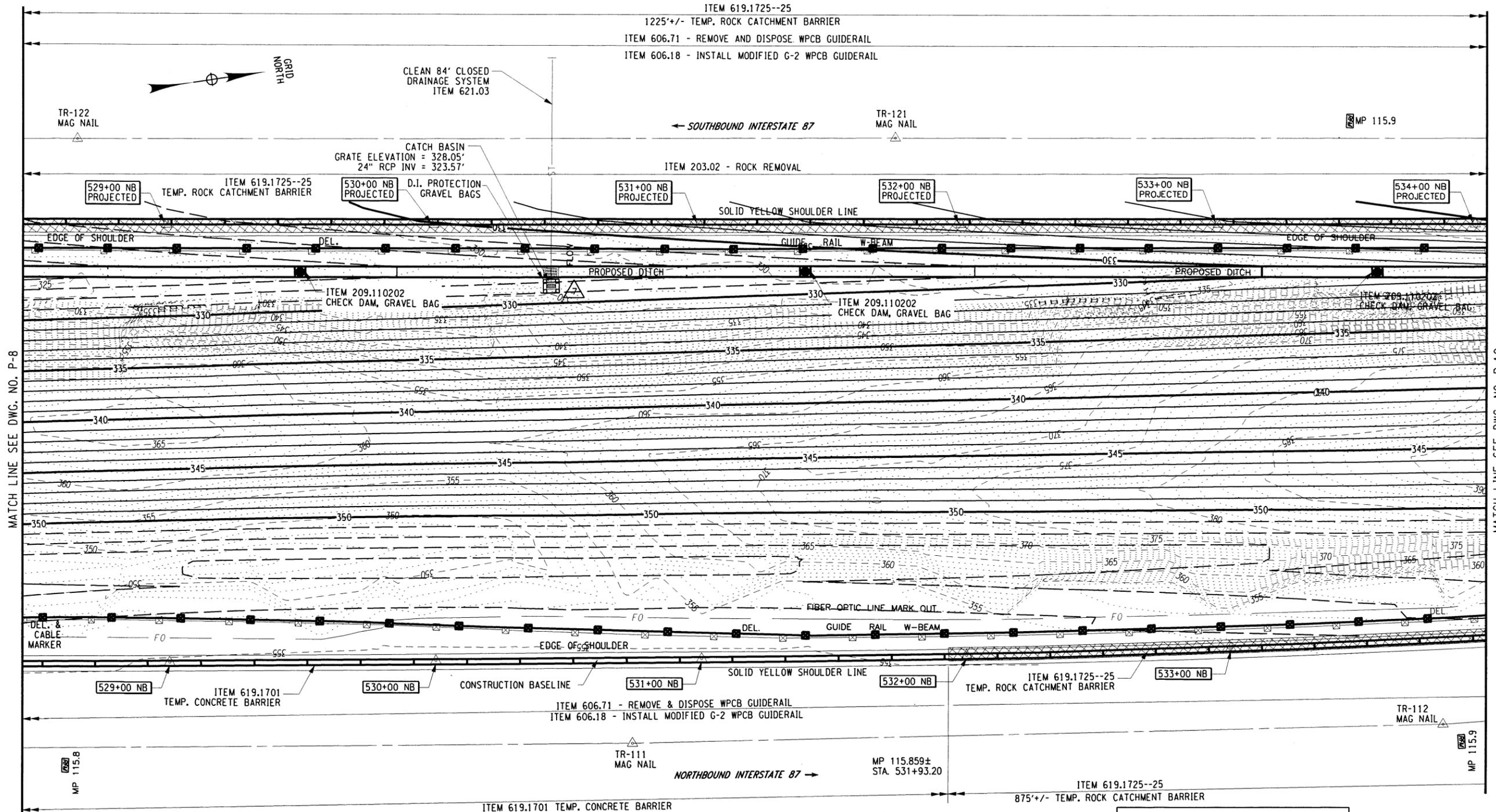
ALTERED ON:
SIGNATURE STAMP:

AFFIXED ON: 9/26/16
SIGNATURE STAMP:



TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE 9/30/16
TITLE OF DRAWING GENERAL PLAN	DRAWING NUMBER P-8

FILED BY: C.KANEG
 DRAFTED BY: J. PEGARELLA
 CHECKED BY: J. PEGARELLA
 DESIGNED BY: C.KANEG
 DESIGN SUPERVISOR: A. MASTROIANNI



LEGEND

WORK ZONE TRAFFIC CONTROL (WZTC) NOTES:

1. THE REQUIRED WORK ZONE TRAFFIC CONTROL SIGNAGE IS NOT SHOWN ON THESE GENERAL PLAN SHEETS. REFER TO THE THRUWAY STANDARD WORK ZONE TRAFFIC CONTROL PLAN SHEETS LOCATED ELSEWHERE IN THE PLAN SET.
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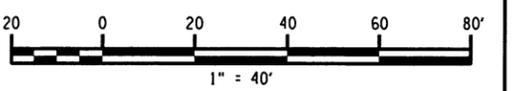
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PLACEMENT LOCATIONS FOR ITEM 209.110202 CHECK DAM (DITCH BOTTOM WIDTH > 3' TO 6'; GRAVEL BAG TEMP. NEW SB. DITCHLINE)

STATION	DRAWING NUMBER	QUANTITY
525+00	P-8	1.0
527+00	P-8	1.0
529+50	P-9	1.0
531+40	P-9	1.0
533+60	P-9	1.0
535+75	P-10	1.0
538+25	P-10	1.0
541+00	P-11	1.0
544+00	P-11	1.0

FIBER OPTIC NOTE:

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ALTERED ON: _____

AFFIXED ON: 9/26/16

SIGNATURE STAMP: _____

SIGNATURE STAMP: _____

REVISIONS

DATE	DESCRIPTION	BY	SYM.

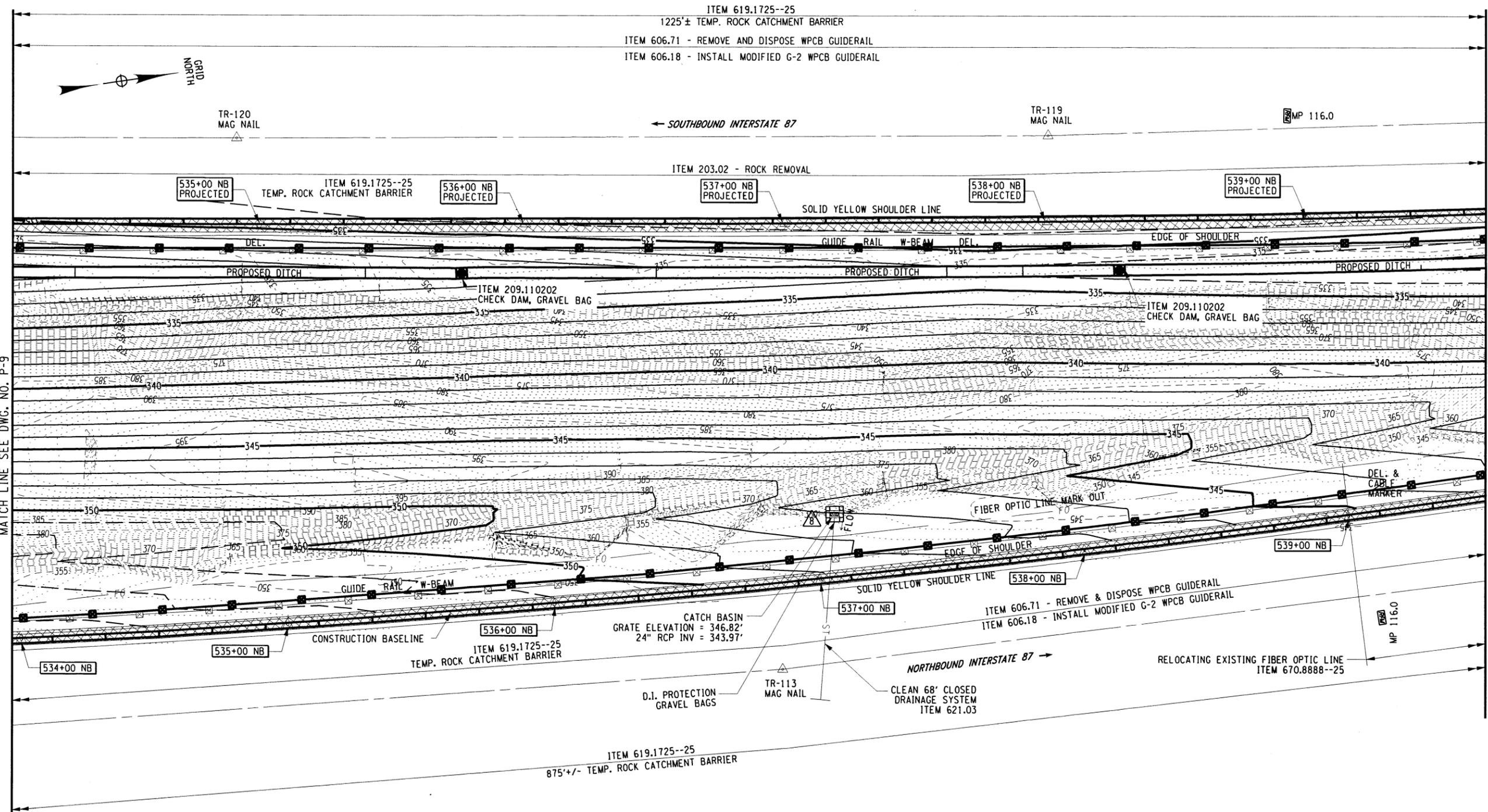
NEW YORK STATE OF OPPORTUNITY

Thruway Authority | Canal Corporation

WATERSHED ANALYSIS
FIGURE

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING GENERAL PLAN	DRAWING NUMBER: P-9

FILE
 CHECKED BY: C.KANEG
 DRAFTED BY: TA
 CHECKED BY: J. PEGARELLA
 DESIGNED BY: C.KANEG
 DESIGN SUPERVISOR: A. MASTROIANNI



MATCH LINE SEE DWG. NO. P-9

MATCH LINE SEE DWG. NO. P-11

WORK ZONE TRAFFIC CONTROL (WZTC) NOTES:

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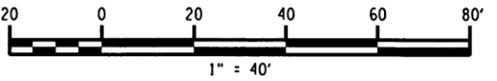
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LEGEND	
	DRAINAGE STRUCTURE REFER TO DWG. DT-1
	GUIDE RAIL REMOVAL/IMPROVEMENTS REFER TO DWG. GR-1
	TEMPORARY CONCRETE BARRIER W/ LINEAR DELINEATION SYSTEM. ITEMS 619.1701 AND 619.1706--25
	TEMPORARY ROCK CATCHMENT BARRIER W/ LINEAR DELINEATION SYSTEM (REQUIRED ON TANGENT BARRIER RUNS). ITEMS 619.1725--25 AND 619.1706--25
	DRAINAGE STRUCTURE INLET PROTECTION. GRAVEL BAG-TEMP. ITEM 209.1702. WHERE REQUIRED, COST OF ORANGE BARRIER FENCING TO BE INCLUDED UNDER ITEM 619.01

PLACEMENT LOCATIONS FOR ITEM 209.110202 CHECK DAM (DITCH BOTTOM WIDTH > 3' TO 6', GRAVEL BAG TEMP. NEW SB. DITCHLINE)		
STATION	DRAWING NUMBER	QUANTITY
525+00	P-8	1.0
527+00	P-8	1.0
529+50	P-9	1.0
531+40	P-9	1.0
533+60	P-9	1.0
535+75	P-10	1.0
538+25	P-10	1.0
541+00	P-11	1.0
544+00	P-11	1.0

FIBER OPTIC NOTE:

THESE PLAN SHEETS SHOW ONLY THE APPROXIMATE LOCATION OF THE BURIED FIBER OPTIC CABLE WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK (UFPO) 811 TO DETERMINE THE EXACT LOCATION OF THE FIBER OPTIC LINE PRIOR TO COMMENCEMENT OF ANY WORK.



ALTERED ON:
SIGNATURE:
STAMP:

AFFIXED ON:
9/26/16
SIGNATURE:
STAMP:

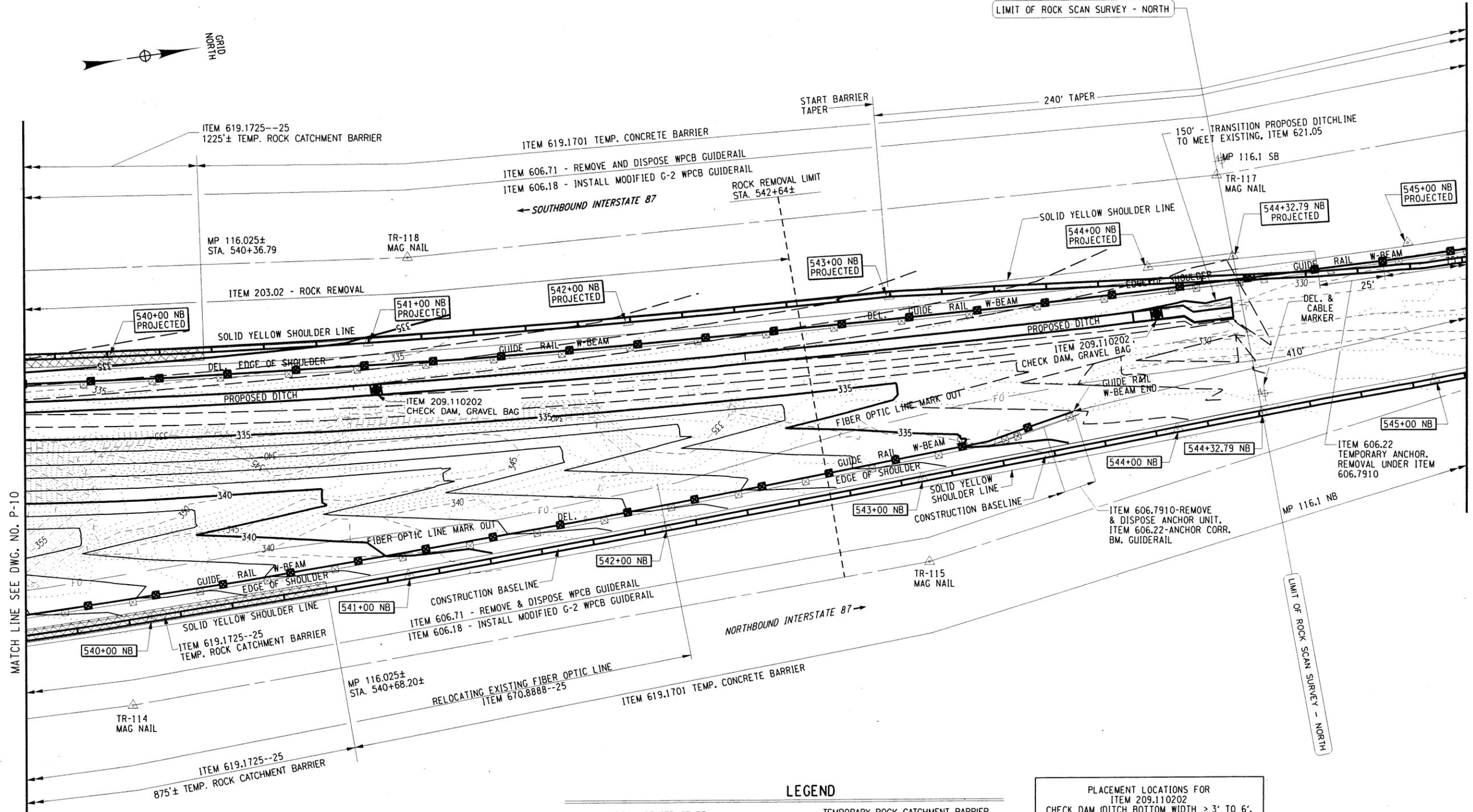


REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING GENERAL PLAN	DRAWING NUMBER: P-10

FILED
 CHECKED BY: C.KANEG
 DRAFTED BY: TA
 CHECKED BY: J.PEGARELLA
 DESIGNED BY: C.KANEG
 DESIGN SUPERVISOR: A. MASTROIANNI



WORK ZONE TRAFFIC CONTROL (WZTC) NOTES:

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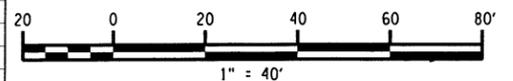
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STATION	DRAWING NUMBER	QUANTITY
525+00	P-8	1.0
527+00	P-8	1.0
529+50	P-9	1.0
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ALTERED ON: _____

AFFIXED ON: 10/10/16

SIGNATURE: _____

STAMP: _____

REVISIONS

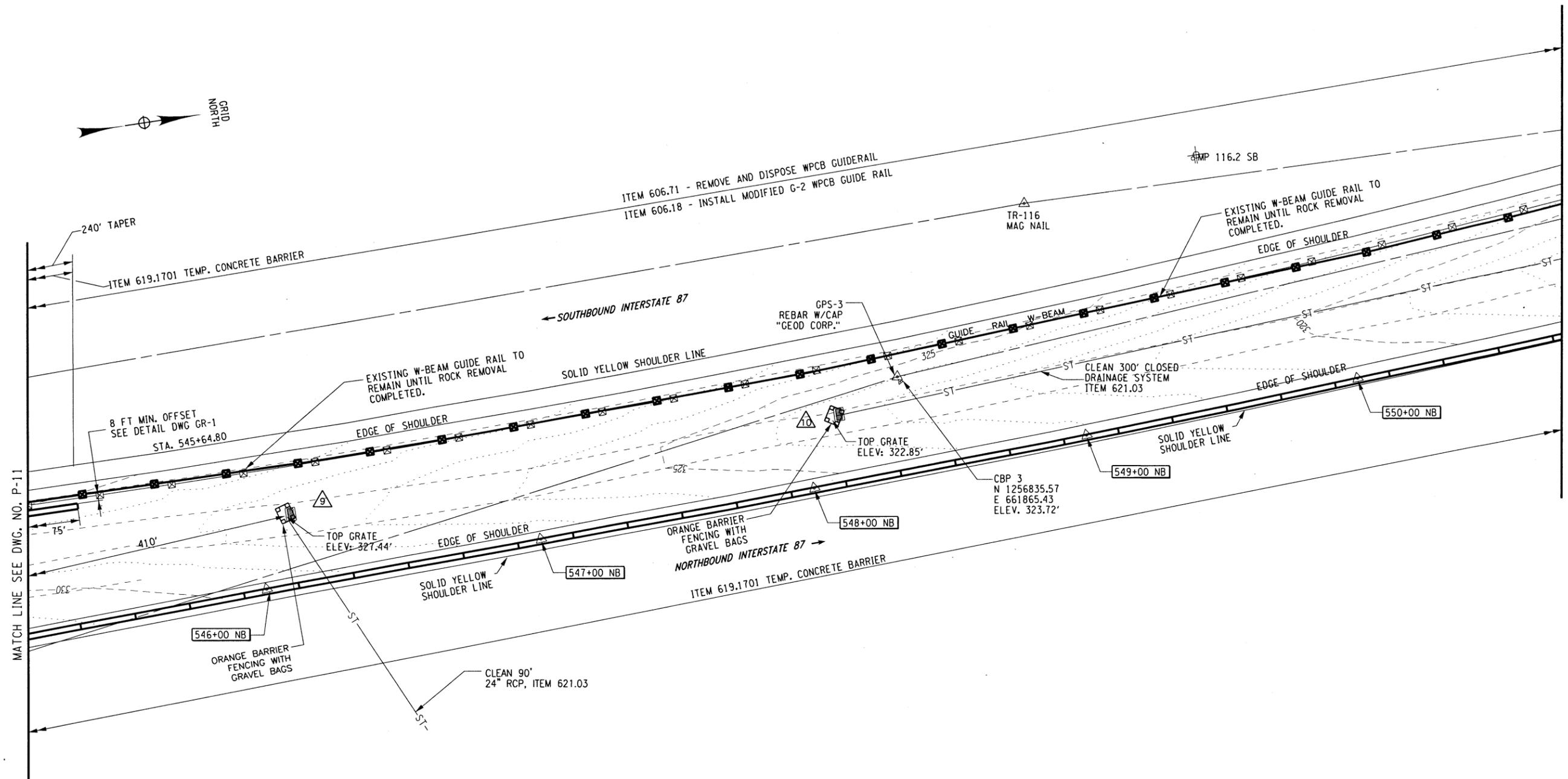
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE OF OPPORTUNITY

Thruway Authority | **Canal Corporation**

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE 9/30/16
TITLE OF DRAWING GENERAL PLAN	DRAWING NUMBER P-11

FILED
 CHECKED BY: C.KANEG
 DRAFTED BY: TA
 CHECKED BY: J. PEGARELLA
 DESIGNED BY: C.KANEG
 DESIGN SUPERVISOR: A. MASTROIANNI



LEGEND

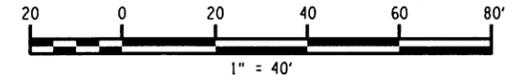
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING GENERAL PLAN	DRAWING NUMBER: P-12

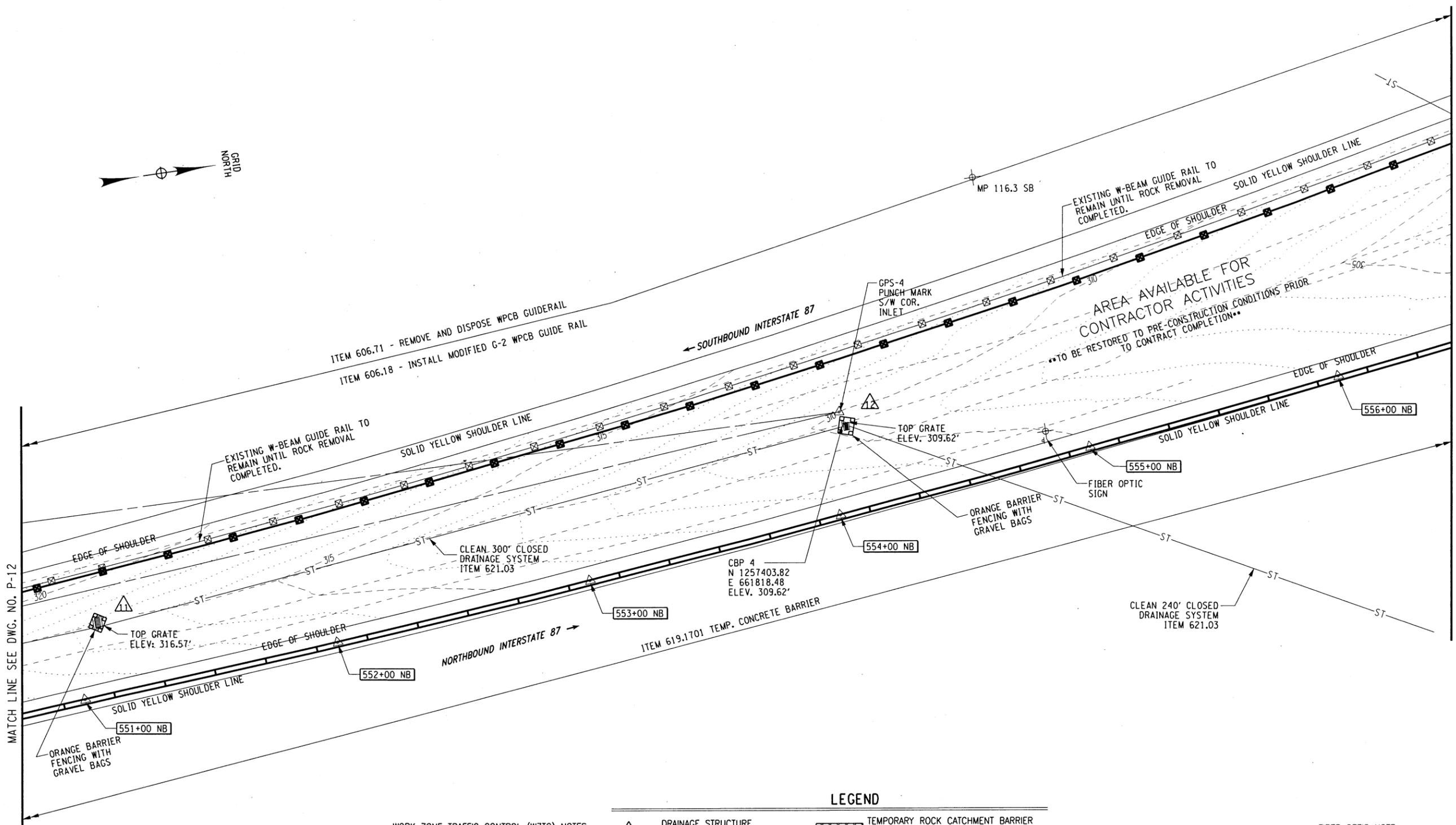
ALTERED ON: _____

AFFIXED ON: 10/11/16

SIGNATURE: _____

STAMP: _____

FILED: C. KANEG
 CHECKED BY: J. PEGARELLA
 DRAFTED BY: TA
 CHECKED BY: C. KANEG
 DESIGNED BY: C. KANEG
 DESIGN SUPERVISOR: A. MASTROIANNI



LEGEND

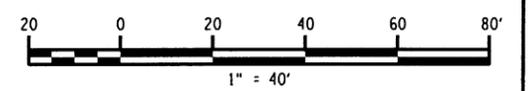
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ALTERED ON: SIGNATURE: STAMP:	AFFIXED ON: 10/11/16 SIGNATURE: STAMP:

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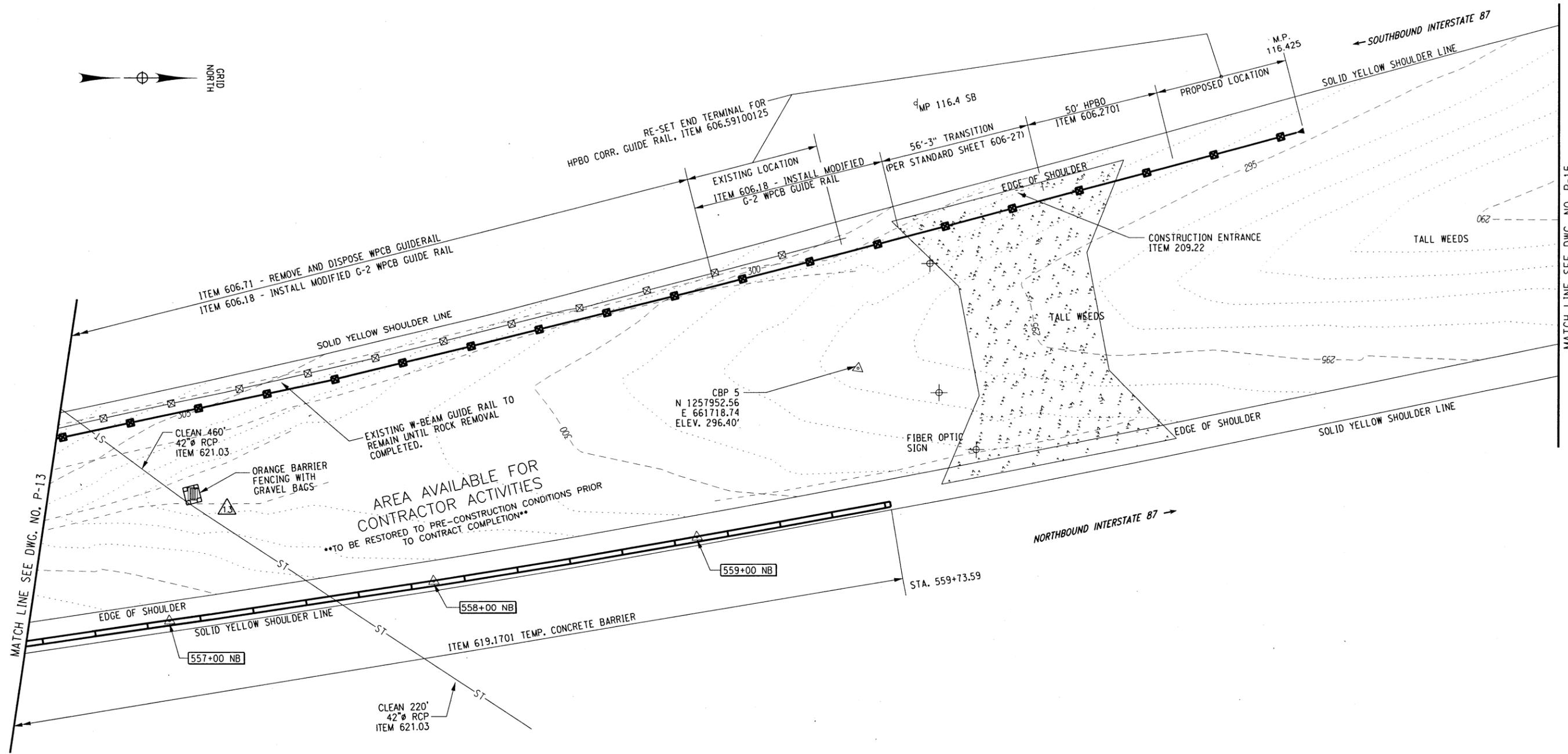
REVISIONS			
DATE	DESCRIPTION	BY	SYM.

Thruway Authority

Canal Corporation

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING GENERAL PLAN	DRAWING NUMBER: P-13

FILED: C.KANEG
 CHECKED BY: TA
 DRAFTED BY: J. PEGARELLA
 CHECKED BY: J. PEGARELLA
 DESIGNED BY: C.KANEG
 DESIGN SUPERVISOR: A. MASTROIANNI



AREA AVAILABLE FOR CONTRACTOR ACTIVITIES
 TO BE RESTORED TO PRE-CONSTRUCTION CONDITIONS PRIOR TO CONTRACT COMPLETION

LEGEND

- DRAINAGE STRUCTURE REFER TO DWG. DT-1
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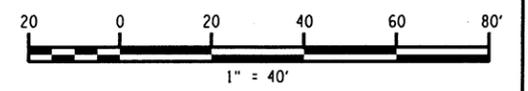
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1. THE REQUIRED WORK ZONE TRAFFIC CONTROL SIGNAGE IS NOT SHOWN ON THESE GENERAL PLAN SHEETS. REFER TO THE THRUWAY STANDARD WORK ZONE TRAFFIC CONTROL PLAN SHEETS LOCATED ELSEWHERE IN THE PLAN SET.
2. REFERENCE DWG. NO. SCSO FOR WZTC SIGNS AND DELINEATION REQUIREMENTS WHEN USING TEMPORARY CONCRETE BARRIER AND TEMPORARY ROCK CATCHMENT BARRIER. SIGNAGE AND DELINEATION IS REQUIRED IN BOTH THE NORTHBOUND AND SOUTHBOUND DIRECTIONS.

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

FIBER OPTIC NOTE:

THESE PLAN SHEETS SHOW ONLY THE APPROXIMATE LOCATION OF THE BURIED FIBER OPTIC CABLE WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK (UFP) 811 TO DETERMINE THE EXACT LOCATION OF THE FIBER OPTIC LINE PRIOR TO COMMENCEMENT OF ANY WORK.



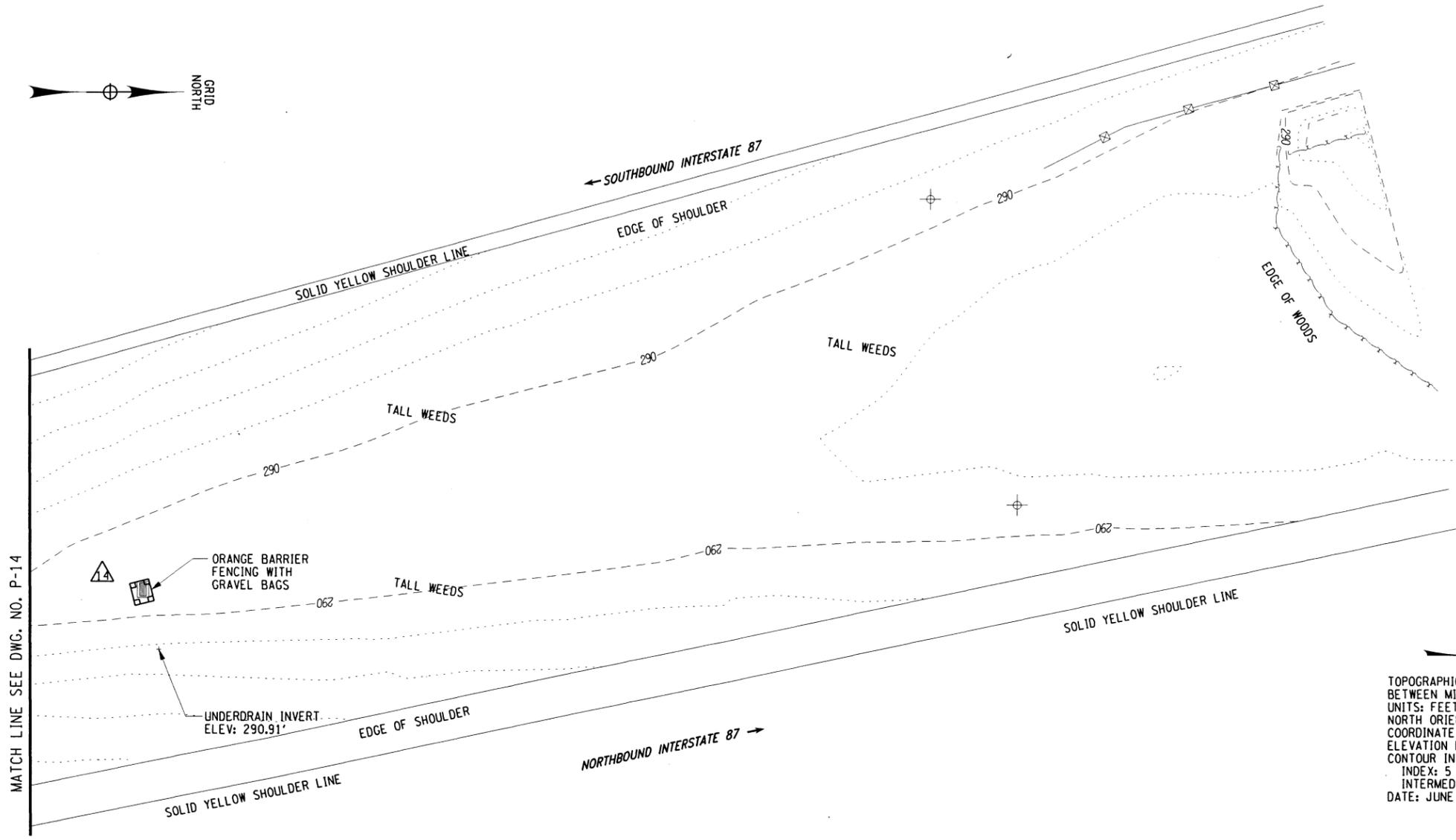
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

Thruway Authority Canal Corporation

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING GENERAL PLAN	DRAWING NUMBER: P-14

FILE
 CHECKED BY: C.KANEG
 DRAFTED BY: TA
 CHECKED BY: J.PEGARELLA
 DESIGNED BY: C.KANEG
 DESIGN SUPERVISOR: A.MASTROIANNI



TOPOGRAPHIC SURVEY OF MEDIAN
 BETWEEN MILEPOSTS 116.1 & 116.5
 UNITS: FEET
 NORTH ORIENTATION: AS PER GEOD SURVEY-2008
 COORDINATE BASE: NYSPCS AS PER GEOD SURVEY-2008
 ELEVATION DATUM: GEOD SURVEY-2008
 CONTOUR INTERVAL:
 INDEX: 5
 INTERMEDIATE: 1
 DATE: JUNE 2009

LEGEND

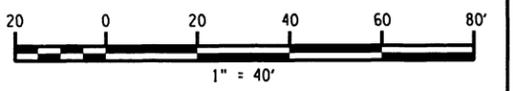
- DRAINAGE STRUCTURE REFER TO DWG. DT-1
- GUIDE RAIL REMOVAL/IMPROVEMENTS REFER TO DWG. GR-1
- TEMPORARY CONCRETE BARRIER W/ LINEAR DELINEATION SYSTEM. ITEMS 619.1701 AND 619.1706--25
- TEMPORARY ROCK CATCHMENT BARRIER W/ LINEAR DELINEATION SYSTEM (REQUIRED ON TANGENT BARRIER RUNS). ITEMS 619.1725--25 AND 619.1706--25
- DRAINAGE STRUCTURE INLET PROTECTION. GRAVEL BAG-TEMP. ITEM 209.1702. WHERE REQUIRED, COST OF ORANGE BARRIER FENCING TO BE INCLUDED UNDER ITEM 619.01

WORK ZONE TRAFFIC CONTROL (WZTC) NOTES:

1. THE REQUIRED WORK ZONE TRAFFIC CONTROL SIGNAGE IS NOT SHOWN ON THESE GENERAL PLAN SHEETS. REFER TO THE THRUWAY STANDARD WORK ZONE TRAFFIC CONTROL PLAN SHEETS LOCATED ELSEWHERE IN THE PLAN SET.
2. REFERENCE DWG. NO. SCSD FOR WZTC SIGNS AND DELINEATION REQUIREMENTS WHEN USING TEMPORARY CONCRETE BARRIER AND TEMPORARY ROCK CATCHMENT BARRIER. SIGNAGE AND DELINEATION IS REQUIRED IN BOTH THE NORTHBOUND AND SOUTHBOUND DIRECTIONS.

FIBER OPTIC NOTE:

THESE PLAN SHEETS SHOW ONLY THE APPROXIMATE LOCATION OF THE BURIED FIBER OPTIC CABLE WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK (UFPO) 811 TO DETERMINE THE EXACT LOCATION OF THE FIBER OPTIC LINE PRIOR TO COMMENCEMENT OF ANY WORK.



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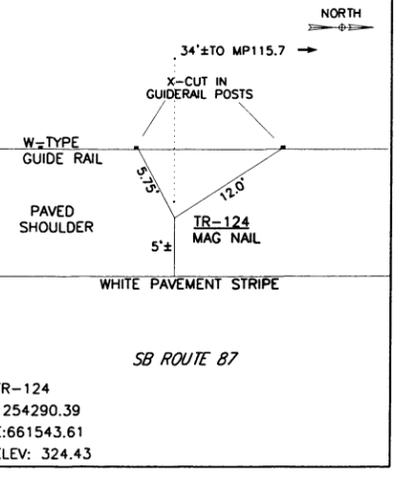
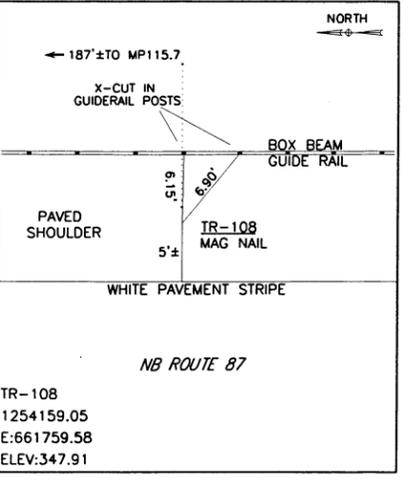
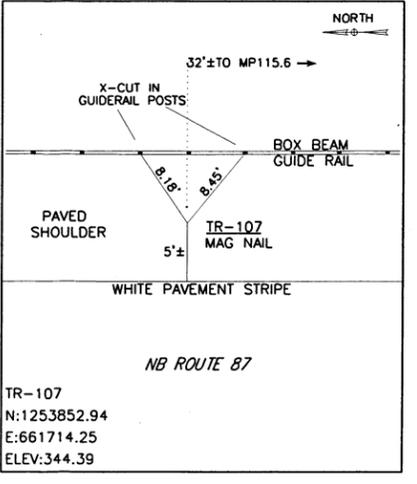
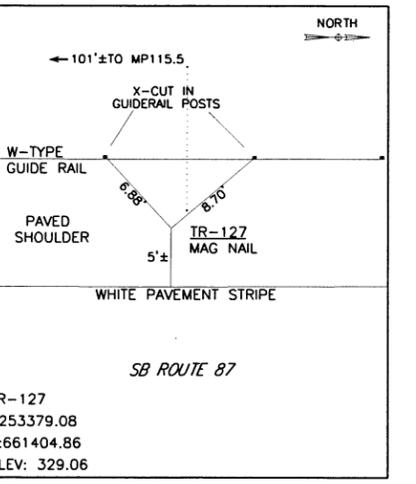
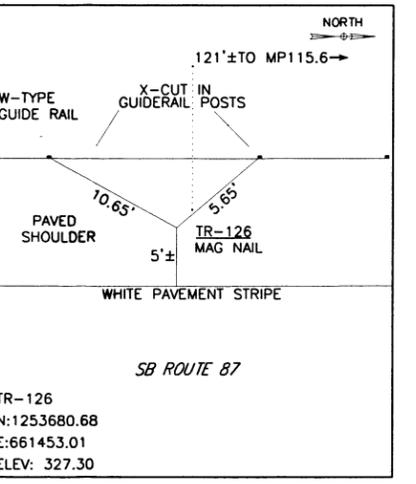
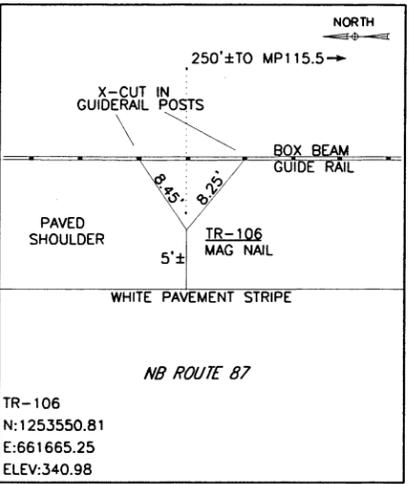
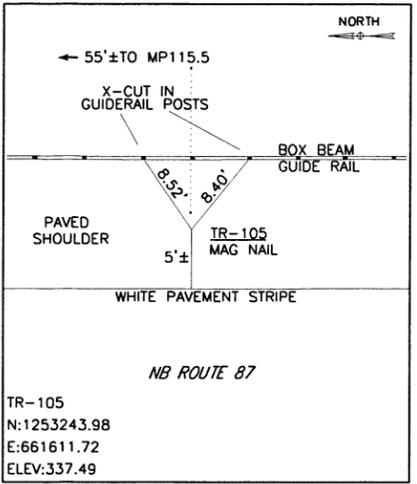
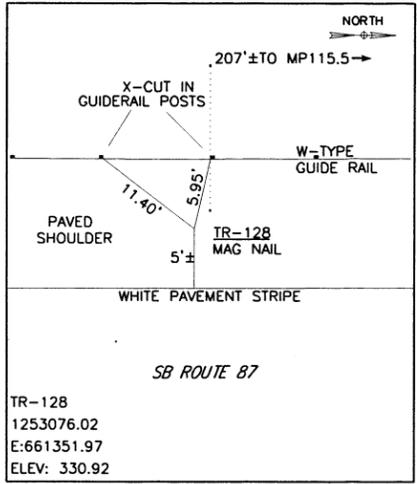
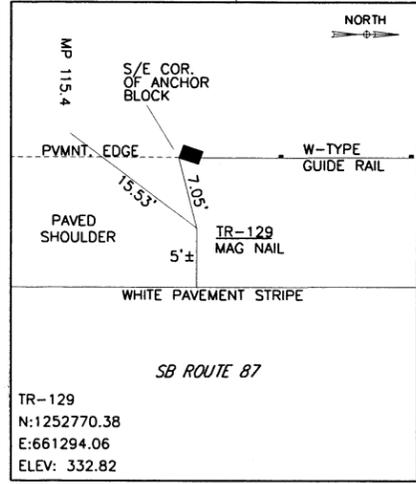
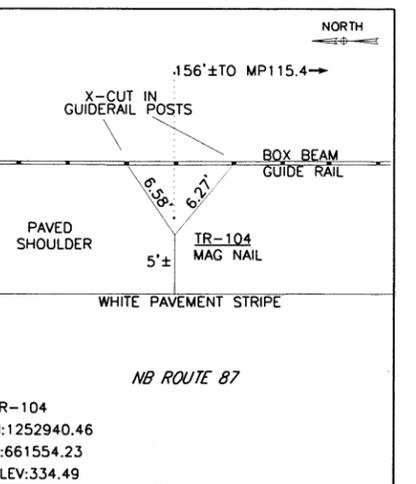
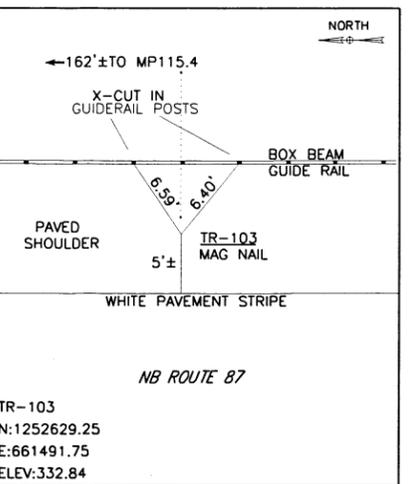
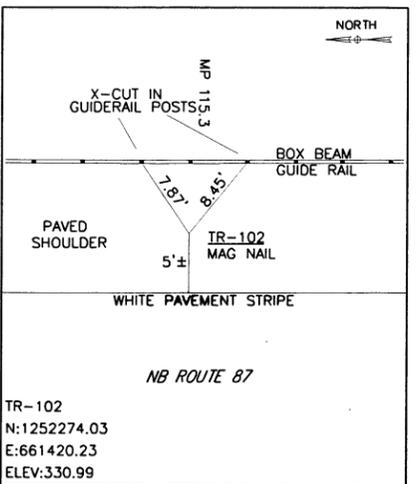
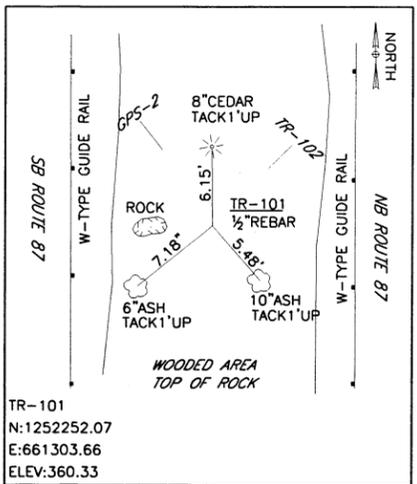
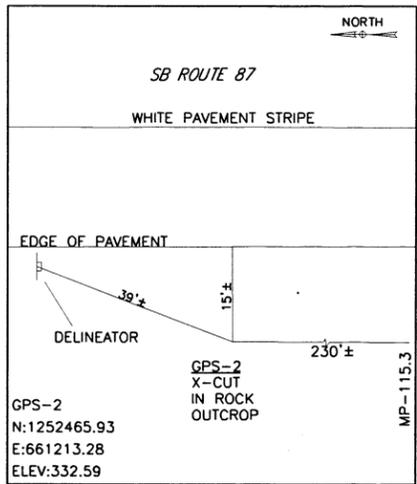
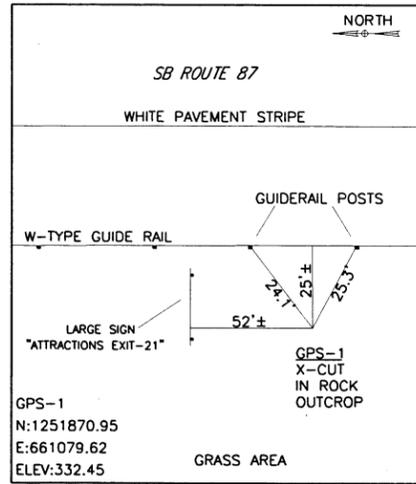
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

Thruway Authority | **Canal Corporation**

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING GENERAL PLAN	DRAWING NUMBER: P-15

FILE
 CHECKED BY: C. KANEG
 DRAFTED BY: TA
 CHECKED BY: J. PEGARELLA
 DESIGNED BY: C. KANEG
 DESIGN SUPERVISOR: A. MASTROIANNI



ALTERED ON: _____ AFFIXED ON: 9/26/16

SIGNATURE: _____ SIGNATURE: _____
STAMP: _____ STAMP: _____



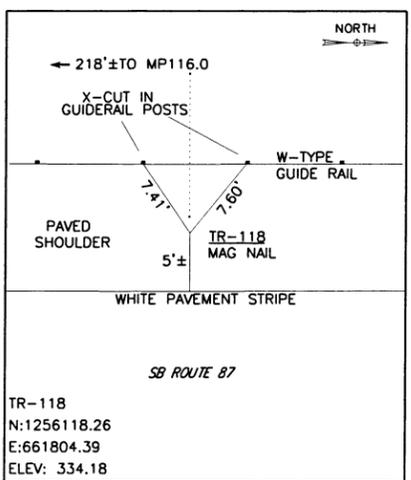
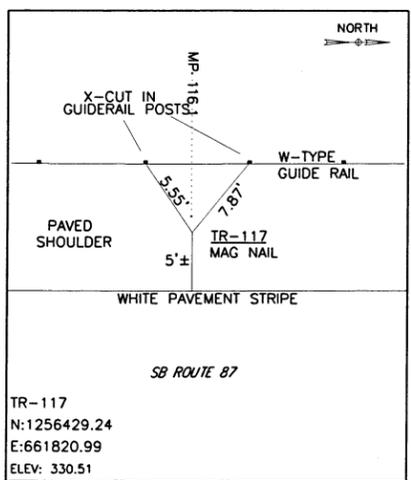
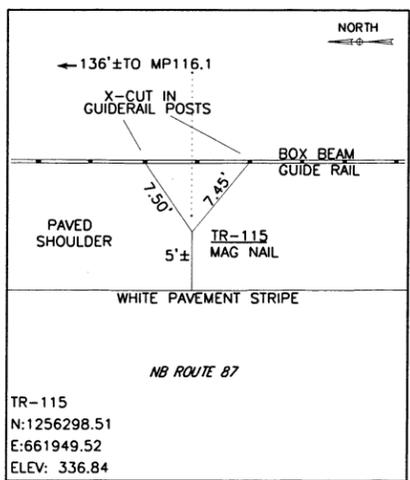
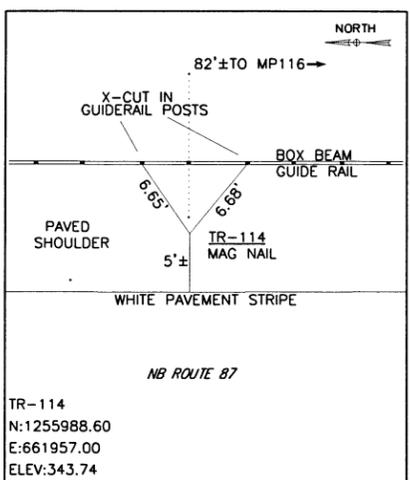
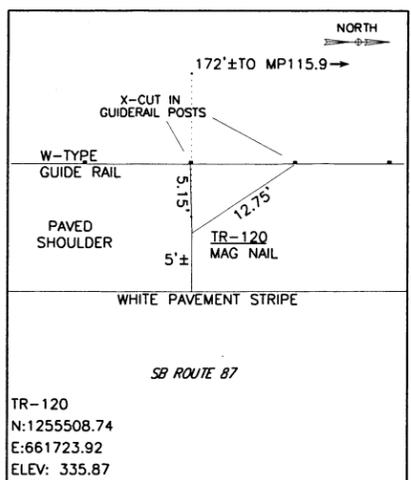
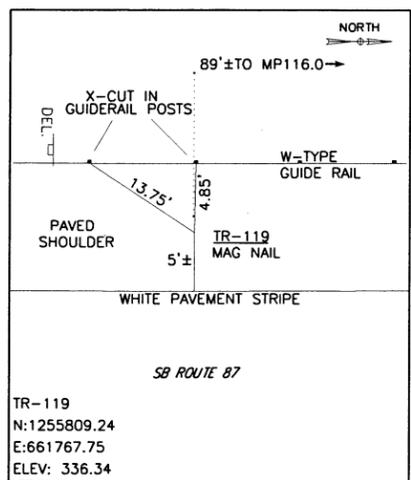
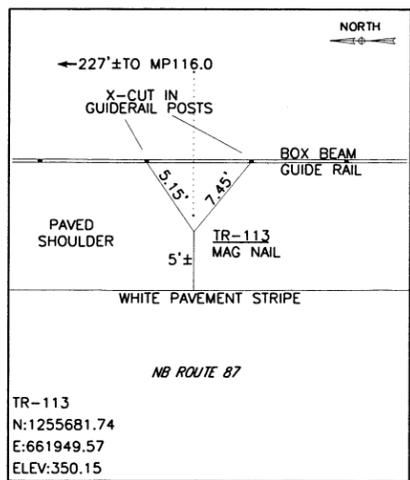
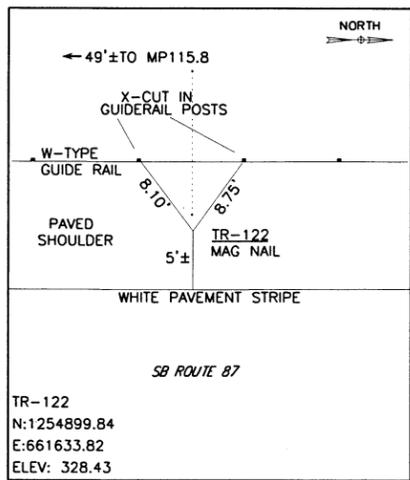
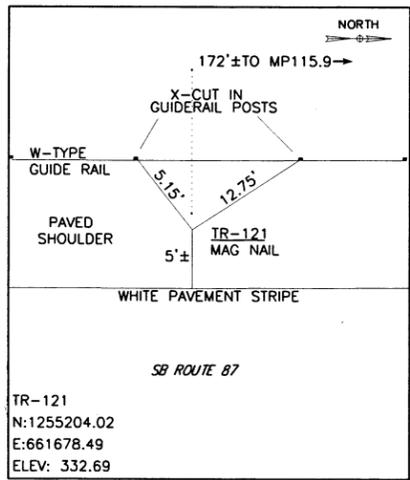
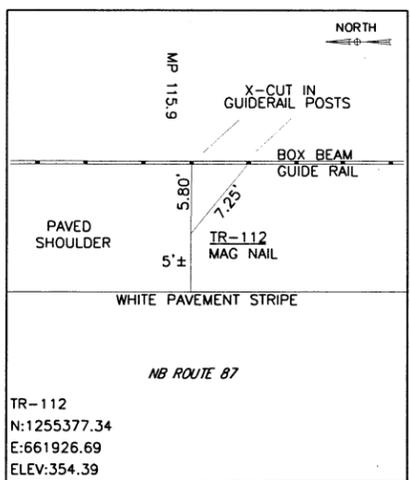
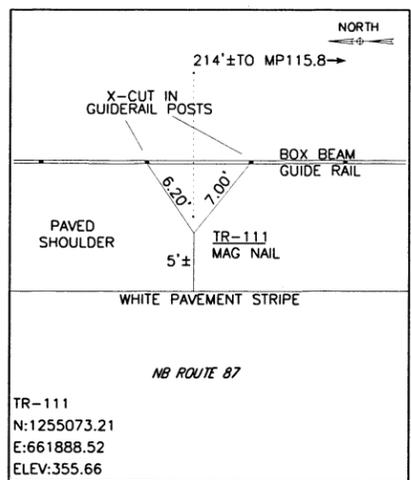
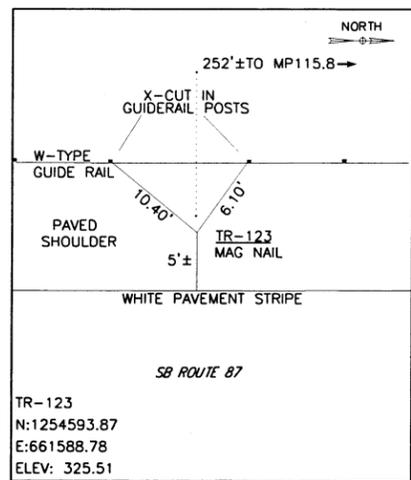
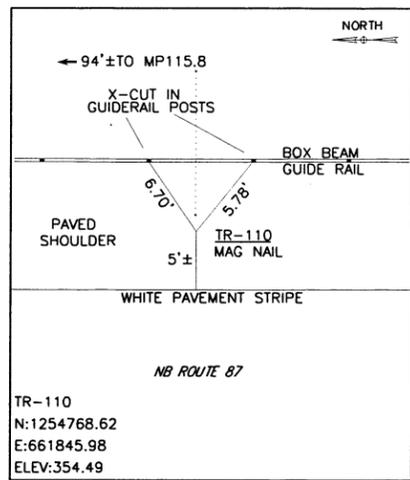
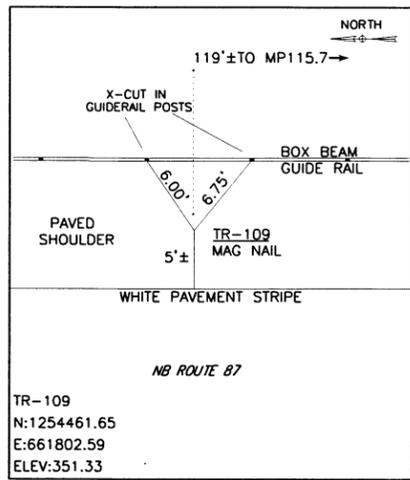
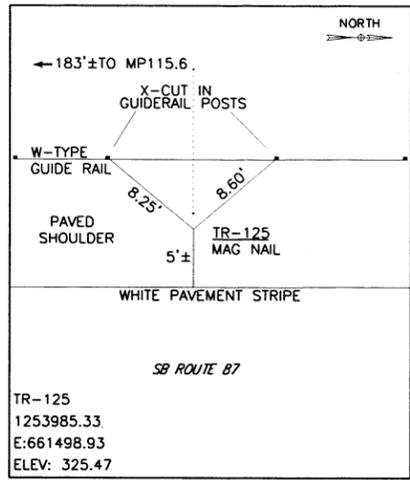
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING BASELINE TIES	DRAWING NUMBER: BT-1

FILED
 CHECKED BY: C.KANEK
 DRAFTED BY: TA
 CHECKED BY: J. PEGARELLA
 DESIGNED BY: C.KANEK
 DESIGN SUPERVISOR: A. MASTROIANNI



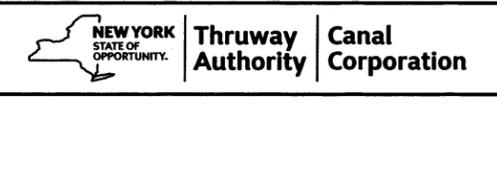
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SIGNATURE: _____ SIGNATURE: _____
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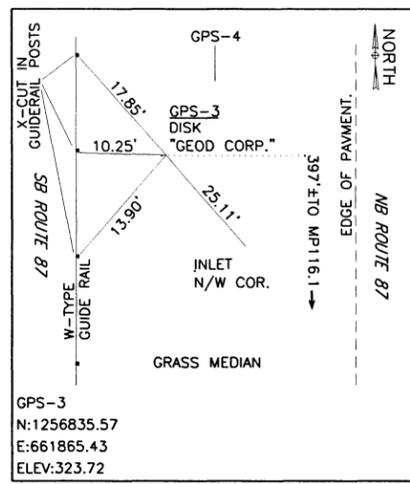
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

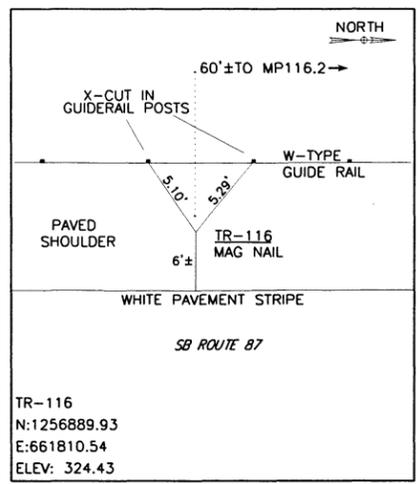


TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE 9/30/16
TITLE OF DRAWING BASELINE TIES	DRAWING NUMBER BT-2

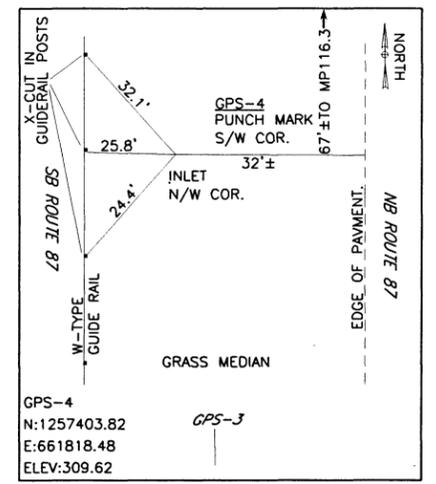
FILED
 CHECKED BY: C.KANEG
 DRAFTED BY: TA
 CHECKED BY: J.PEGARELLA
 DESIGNED BY: C.KANEG
 DESIGN SUPERVISOR: A.MASTROIANNI



GPS-3
 N:1256835.57
 E:661865.43
 ELEV:323.72



TR-116
 N:1256889.93
 E:661810.54
 ELEV: 324.43



GPS-4
 N:1257403.82
 E:661818.48
 ELEV:309.62

ALTERED ON:	AFFIXED ON: 9/26/16
SIGNATURE: STAMP:	SIGNATURE: STAMP: 

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

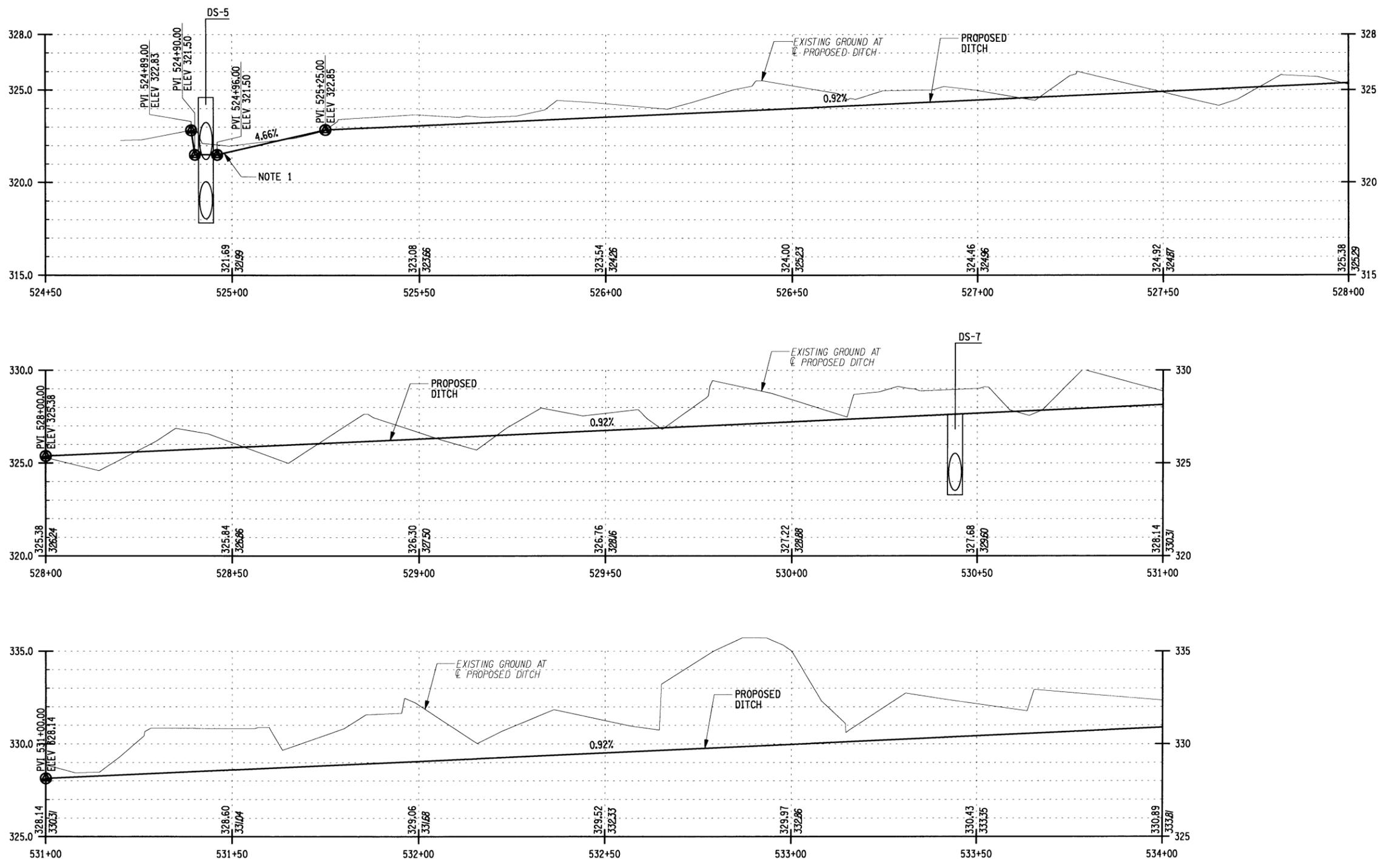
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



Thruway Authority Canal Corporation

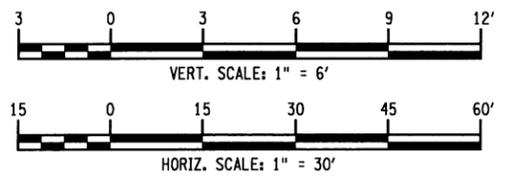
TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING BASELINE TIES	DRAWING NUMBER: BT-3

DESIGNED BY: MARK J. MRUK
CHECKED BY: PHILLIP J. THOMPSON
DRAFTED BY: DEAN M. LAMB
CHECKED BY: MARK J. MRUK



NOTES:
 1. PURPOSE OF LOWER EXCAVATED AREA IS TO CREATE A STILLING BASIN TO CAPTURE DITCH RUNOFF.

DITCH PROFILE (SB MEDIAN)



ALTERED ON: _____

AFFIXED ON: 09/26/2016

SIGNATURE: _____

STAMP: _____

STATE OF NEW YORK

MARK J. MRUK

LICENSED PROFESSIONAL ENGINEER

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

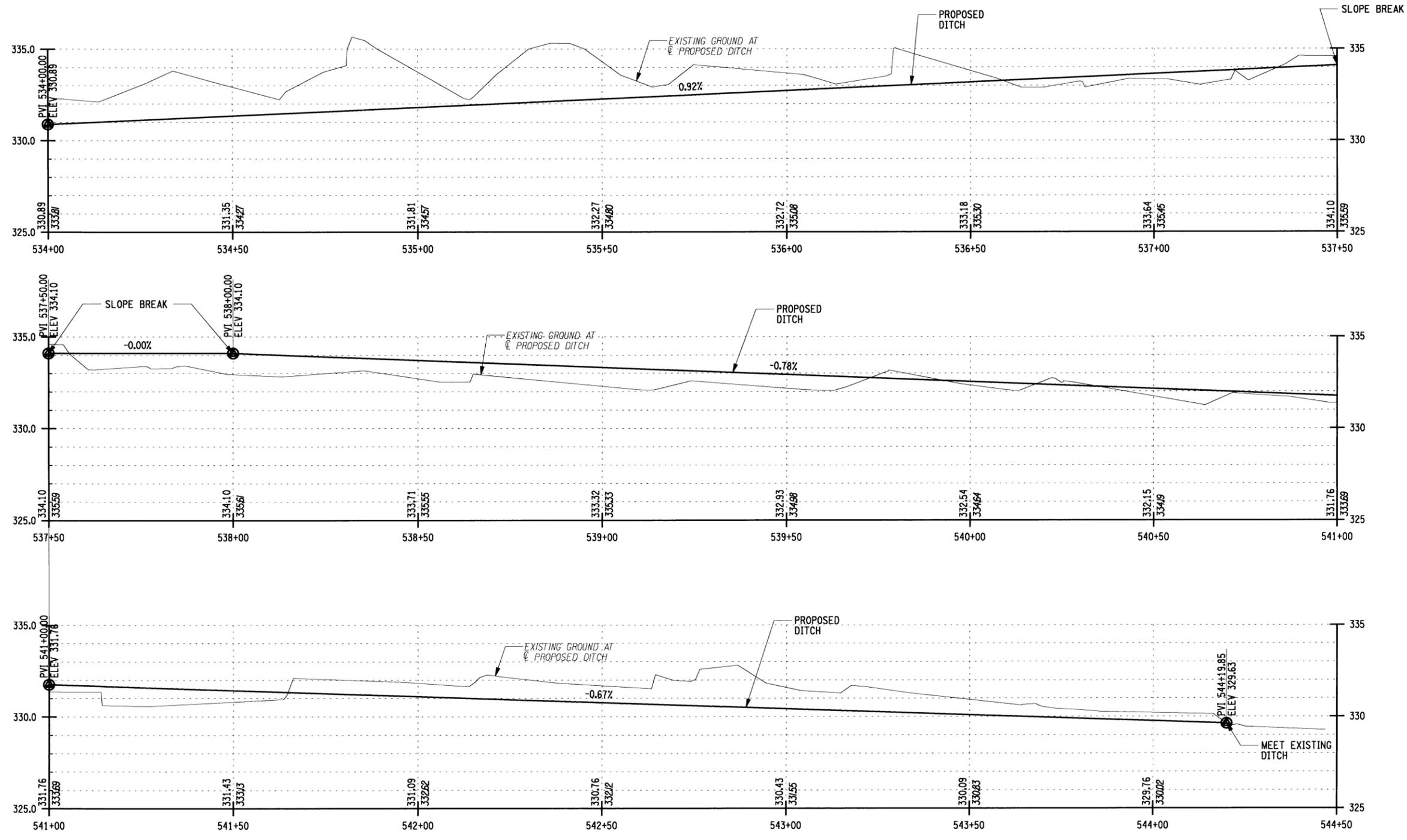
NEW YORK STATE OF OPPORTUNITY

Thruway Authority

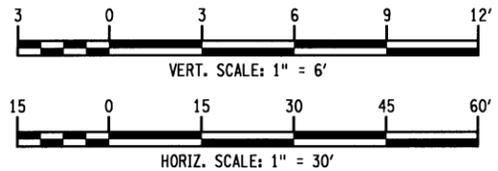
Canal Corporation

M M
MOTT MACDONALD

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING MEDIAN DITCH SB (PROPOSED) STA. 525+00 TO 534+00	DRAWING NUMBER: MDP-1



DITCH PROFILE (SB MEDIAN)



DESIGNED BY: MARK J. MRUK
 CHECKED BY: PHILLIP J. THOMPSON
 DRAFTED BY: DEAN M. LAMB
 CHECKED BY: MARK J. MRUK

ALTERED ON:	AFFIXED ON: 09/26/2016
SIGNATURE: STAMP:	SIGNATURE: STAMP:

Mark J. Mruk

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

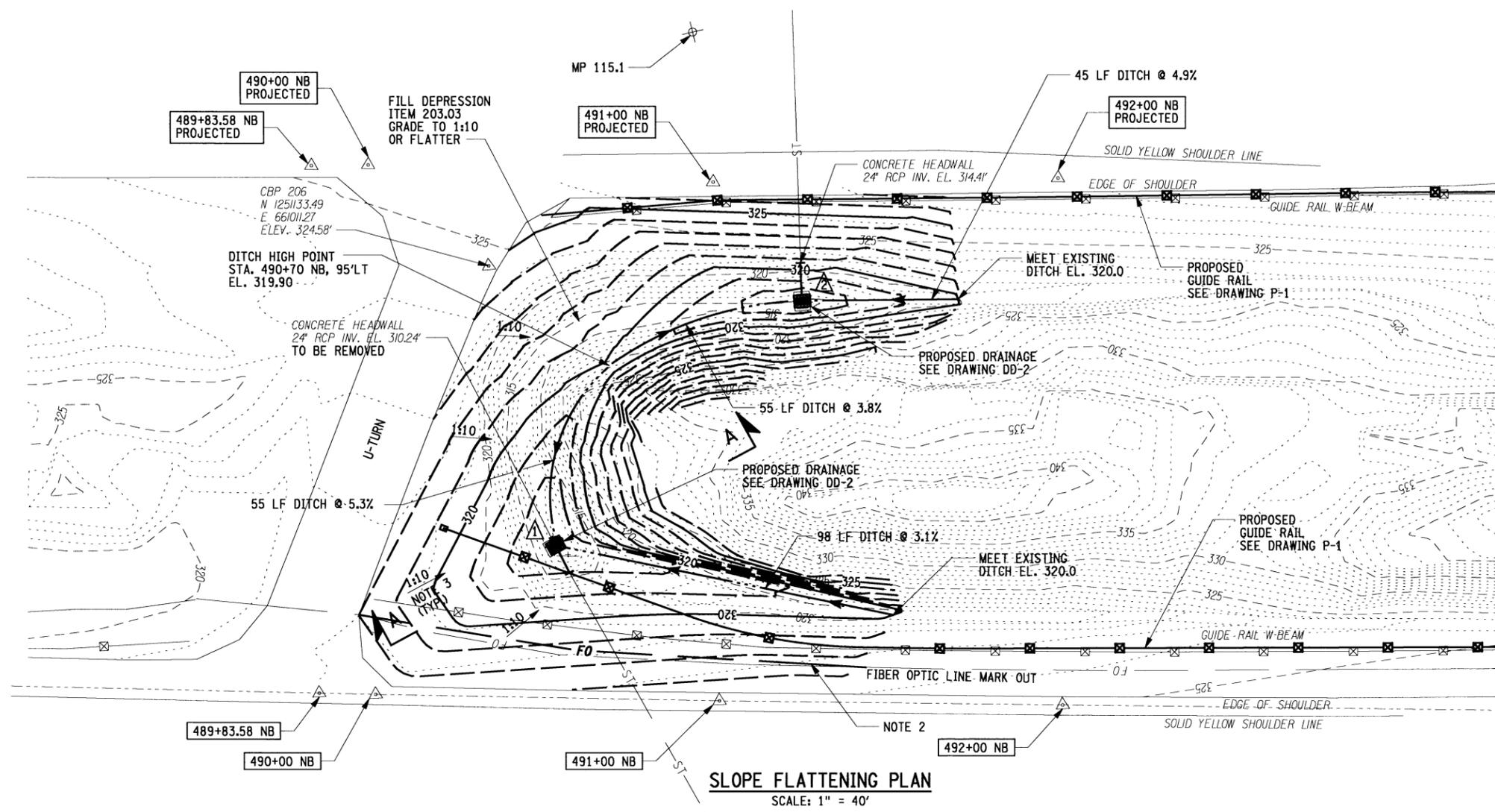
NEW YORK STATE OF OPPORTUNITY

Thruway Authority | **Canal Corporation**

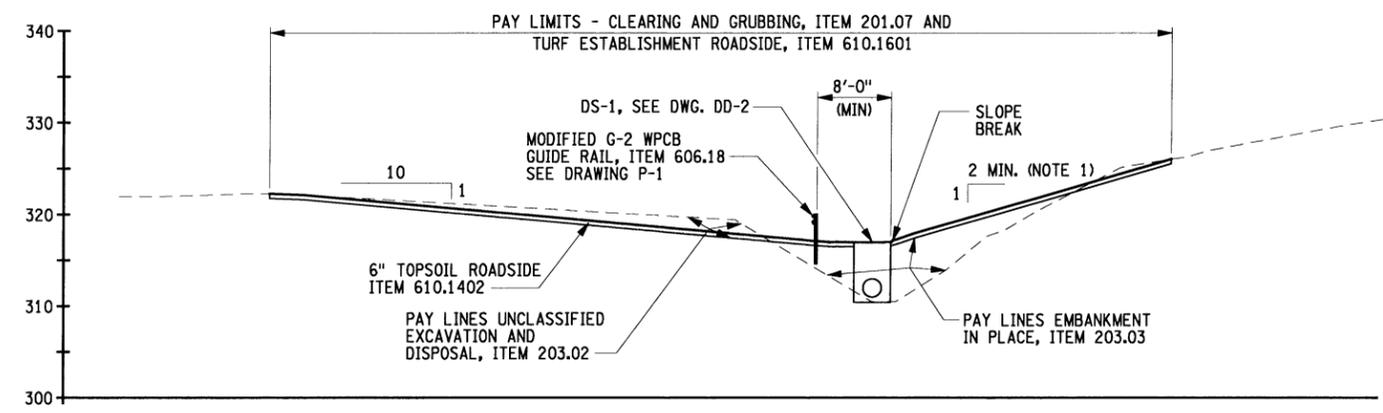
M
MOTT MACDONALD

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING MEDIAN DITCH SB (PROPOSED) STA. 534+00 TO 544+00	DRAWING NUMBER: MDP-2

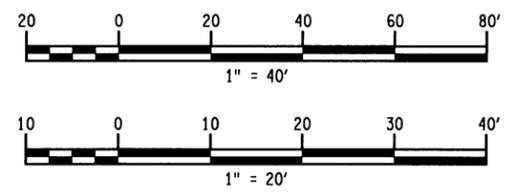
FILED BY: MARK J. MRUK
 CHECKED BY: DEAN M. LAMB
 DRAFTED BY: PHILLIP J. THOMPSON
 CHECKED BY: PHILLIP J. THOMPSON
 DESIGNED BY: MARK J. MRUK
 DESIGN SUPERVISOR: RONALD J. KLINCZAR



- NOTES:**
1. STABLE ROCK FACE GREATER THAN 1V:2H IS PERMISSIBLE. 1V:2H SLOPE IS MINIMUM FOR NON-ROCK SLOPED FACES.
 2. ADJUST LOCATION OF FIBER OPTIC LINE DUCTS UNDER ITEM 670.88880025 AND PROTECT DURING GRADING. SEE DRAWING MD-1 FOR DETAILS.
 3. GRADE AT 1:10 SLOPE TO PROPOSED DITCH LINE.



SECTION A-A
SCALE: 1" = 20'



ALTERED ON:	AFFIXED ON: 09/26/2016
SIGNATURE: STAMP:	SIGNATURE: STAMP:

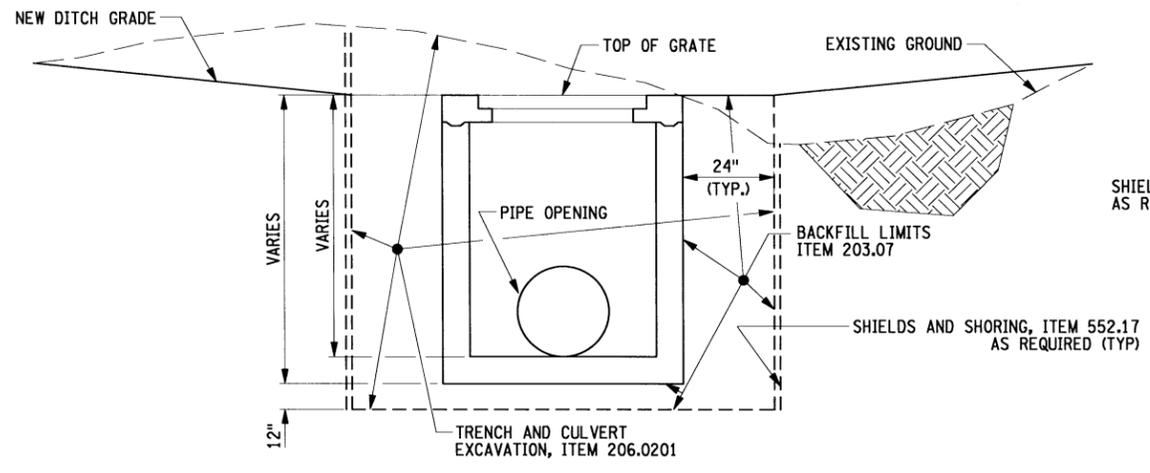
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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

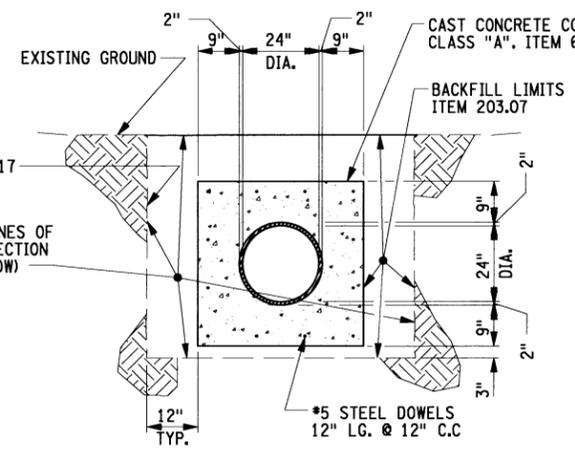
Thruway Authority | **Canal Corporation**
M M
 NOTT MACDONALD

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING MEDIAN SLOPE FLATTENING PLAN AT MP-115.1	DRAWING NUMBER: G-1

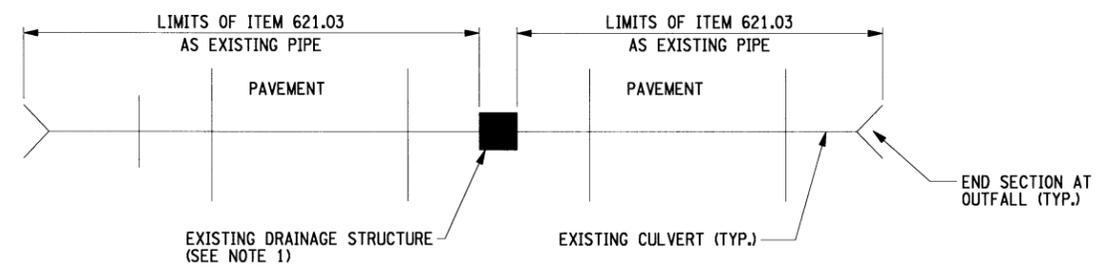
- NOTES:**
1. REFER TO DWG. DT-1 FOR THE EXISTING STRUCTURES TO BE CLEANED UNDER ITEM 621.04.
 2. IF PROPOSED PIPE OR DRAINAGE STRUCTURE IS PLACED PRIOR TO CLEANING EXISTING PIPE, NO PAYMENT SHALL BE MADE FOR CLEANING PROPOSED PIPE EXTENSION OR STRUCTURE.
 3. SEE DWG'S P-1 THRU P-15 FOR LOCATIONS. SEE DRAINAGE TABLE DWG'S DT-1, DT-2 FOR PAY QUANTITIES.
 4. REFER TO DWG. DT-2 FOR PROPOSED ELEVATIONS.



**EXCAVATION AND BACKFILL
AT NEW DRAINAGE STRUCTURES**
N.T.S.



EXCAVATION AND BACKFILL AT COLLARS
N.T.S.



LIMITS OF CLEANING CLOSED DRAINAGE SYSTEM
N.T.S.

ITEM	DESCRIPTION	UNIT
203.07	SELECT GRANULAR FILL	CY
206.0201	TRENCH AND CULVERT EXCAVATION	CY
552.17	SHIELDS AND SHORING	SF
603.6005	REINFORCED CONCRETE PIPE, CLASS III, 24 INCH DIAMETER	LF
603.9701--25	REMOVAL OF EXISTING DRAINAGE STRUCTURES	EA
603.9825--25	EXTENSION CONNECTION TO EXISTING DRAINAGE SYSTEM	EA
604.302122	RECTANGULAR DRAINAGE STRUCTURE TYPE U FOR #22 WELDED FRAME	LF
621.03	CLEANING CLOSED DRAINAGE SYSTEMS	LF
621.04	CLEANING CLOSED DRAINAGE STRUCTURES	EA
655.1122	WELDED FRAME AND RETICULINE GRATE 22	EA

FILED BY: MARK J. MRUK
 CHECKED BY: DEAN M. LAMB
 DRAFTED BY: PHILLIP J. THOMPSON
 CHECKED BY: MARK J. MRUK
 DESIGNED BY: MARK J. MRUK
 DESIGN SUPERVISOR: RONALD J. KLINCZAR

ALTERED ON: _____

AFFIXED ON: 09/26/2016

SIGNATURE: _____

STAMP: _____

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

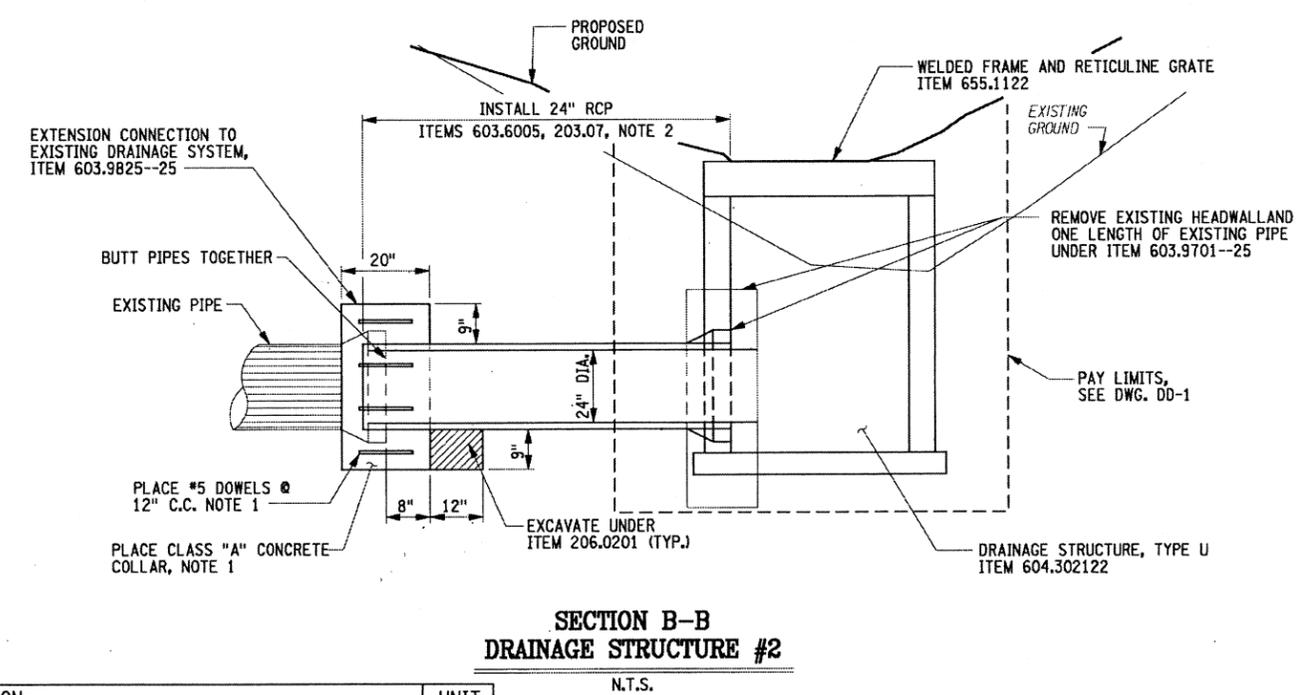
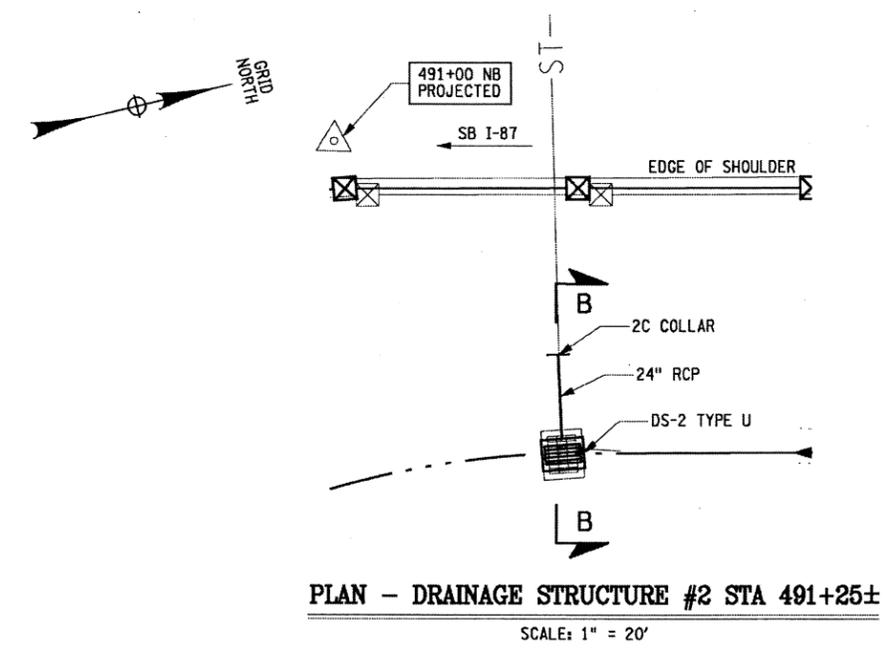
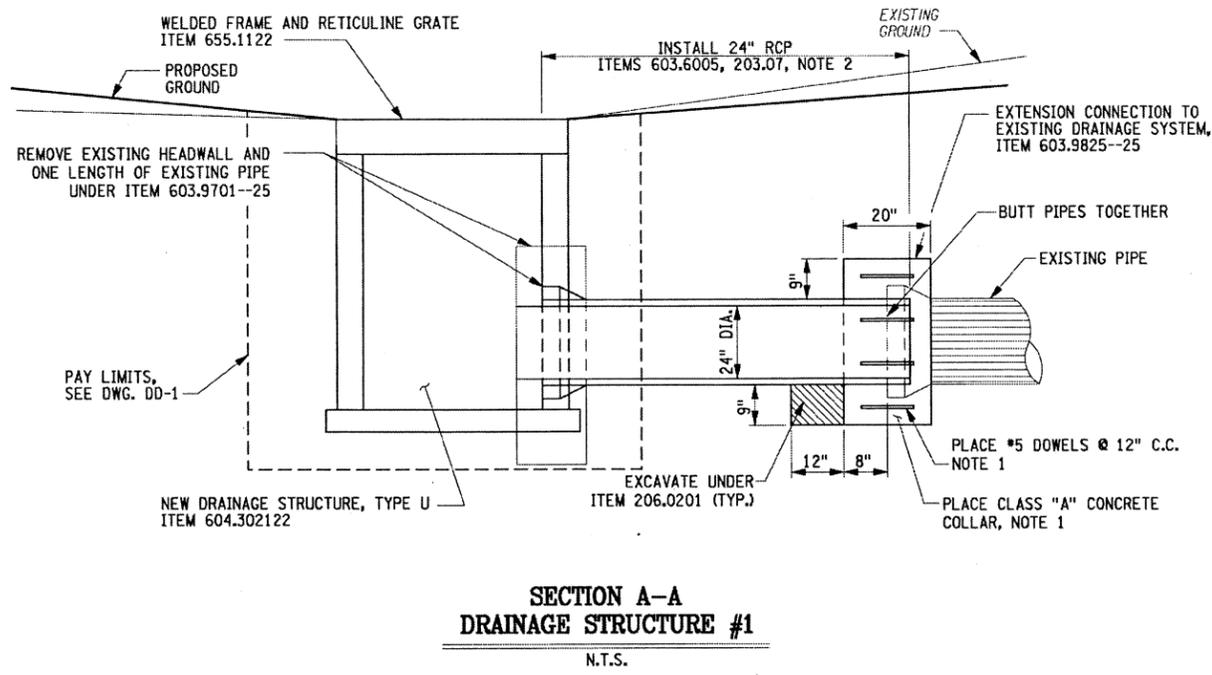
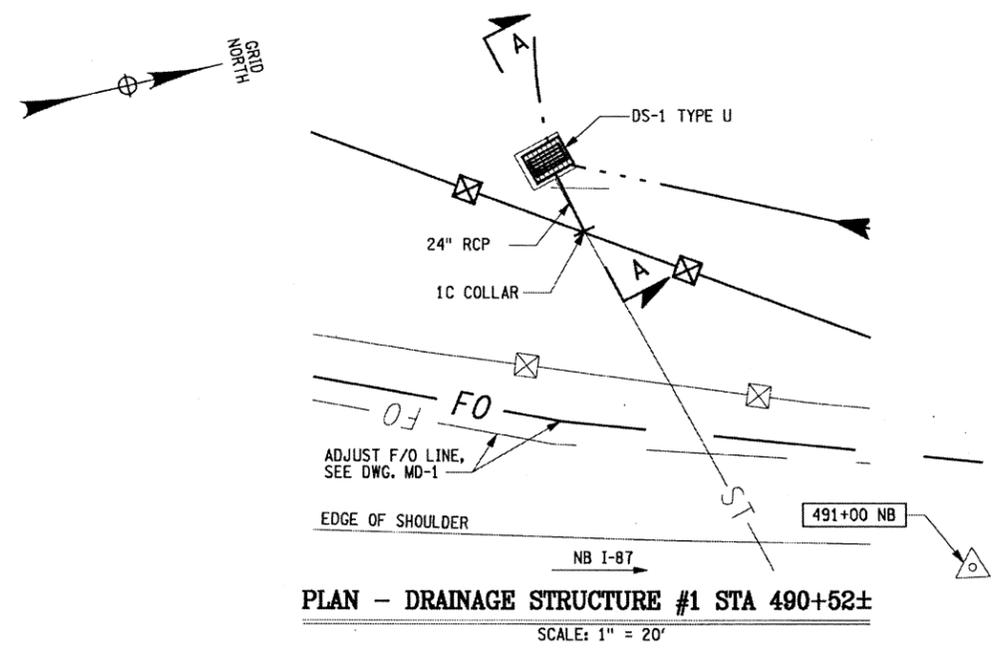
Thruway Authority | **Canal Corporation**

TITLE OF PROJECT: **ROCK REMEDIATION**
 LOCATION OF PROJECT: **M.P. 115.0± TO M.P. 116.1± GREENE COUNTY**
 TITLE OF DRAWING: **DRAINAGE DETAILS**

CONTRACT NUMBER: **TAA 16-41**
 DATE: **9/30/16**
 DRAWING NUMBER: **DD-1**

M M
 MOTT MACDONALD

- NOTES:**
1. MATERIALS INCLUDED IN ITEM 603.9825--25 - EXTENSION CONNECTION TO EXISTING DRAINAGE SYSTEM.
 2. LIMITS OF TRENCH AND CULVERT EXCAVATION AND BACKFILL OF THE TRENCH TO BE CONSTRUCTED PER NYS DOT STANDARD SHEET 203-04. PROVIDE ITEM 552.17, SHIELDS AND SHORING AS REQUIRED.



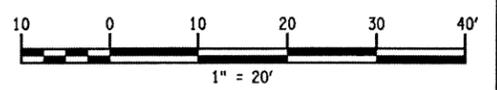
ITEM	DESCRIPTION	UNIT
203.07	SELECT GRANULAR FILL	CY
206.0201	TRENCH AND CULVERT EXCAVATION	CY
552.17	SHIELDS AND SHORING	SF
603.6005	REINFORCED CONCRETE PIPE, CLASS III, 24 INCH DIAMETER	LF
603.9701--25	REMOVAL OF EXISTING DRAINAGE STRUCTURES	EA
603.9825--25	EXTENSION CONNECTION TO EXISTING DRAINAGE SYSTEM	EA
604.302122	RECTANGULAR DRAINAGE STRUCTURE TYPE U FOR #22 WELDED FRAME	LF
655.1122	WELDED FRAME AND RETICULINE GRATE 22	EA

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REVISIONS			
DATE	DESCRIPTION	BY	SYM

NEW YORK STATE OF OPPORTUNITY
Thruway Authority Canal Corporation

M M
MOTT MACDONALD



TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING DRAINAGE DETAILS STRUCTURES 1 AND 2	DRAWING NUMBER: DD-2

DESIGNED BY: MARK J. MRUK
 CHECKED BY: PHILIP J. THOMPSON
 DRAFTED BY: DEAN M. LAW
 CHECKED BY: MARK J. MRUK
 DESIGN SUPERVISOR: RONALD J. KLINCZAR

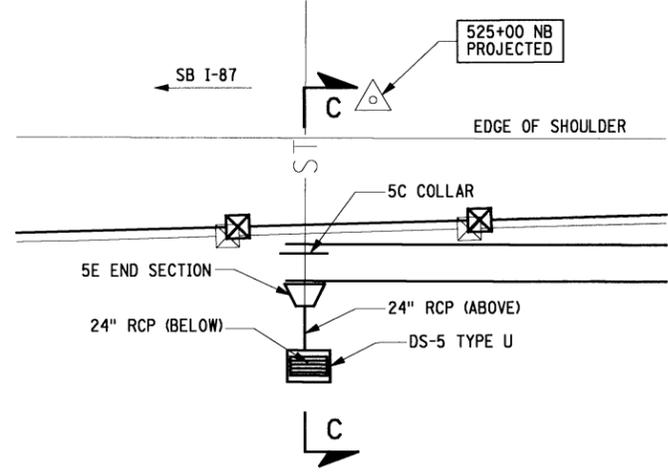
ALTERED ON: _____
AFFIXED ON: **October 11, 2016**

SIGNATURE: _____
STAMP: _____

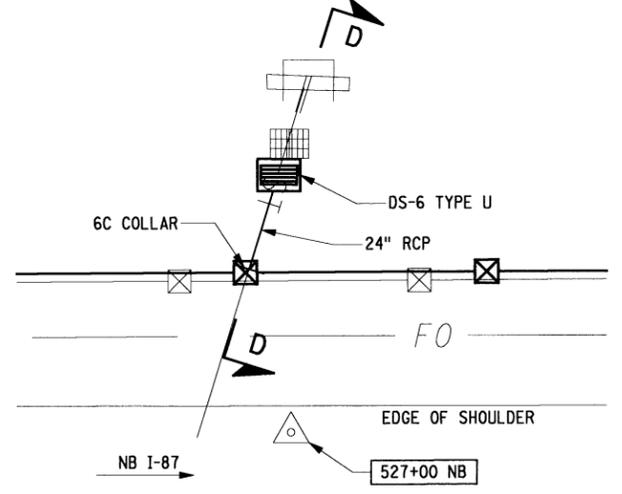
STATE OF NEW YORK
MARK J. MRUK
No. 079124
LICENSED PROFESSIONAL ENGINEER

FILE NAME = P:\NYSTA\237794 Williamsville Toll Barrier\ASSIGNMENT-10 MP 115 to MP 116, Drafting Services\CAD\DRAWINGS\HMM DRAWINGS\030.DD-2.dgn
 DATE/TIME = 10/11/2016

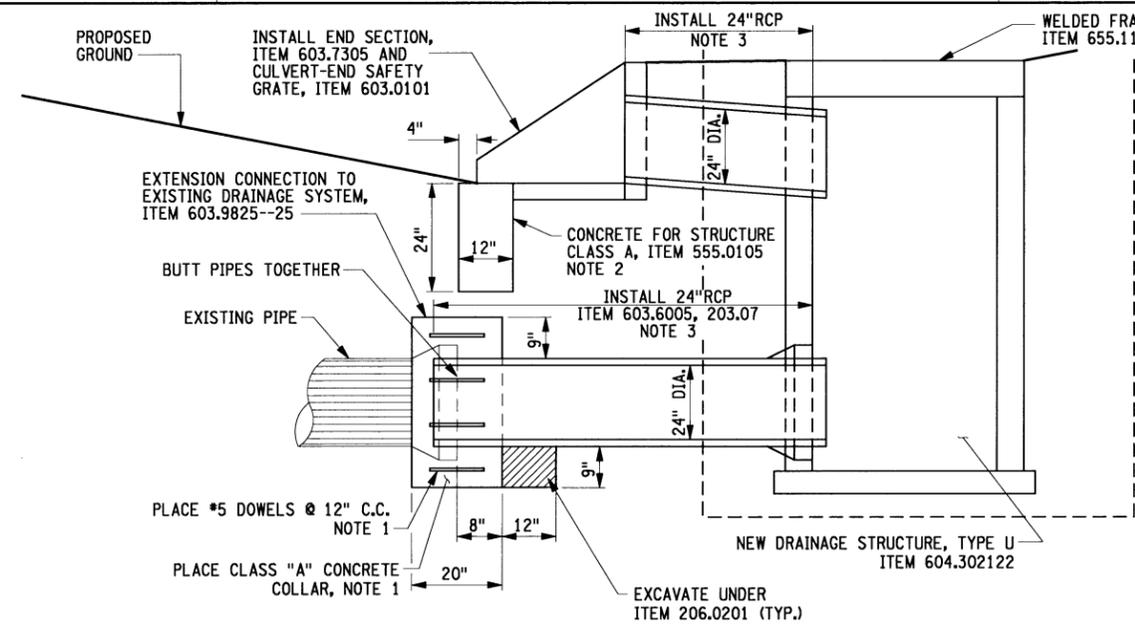
FILE
 CHECKED BY: MARK J. MRUK
 DRAFTED BY: DEAN M. LAMB
 CHECKED BY: PHILLIP J. THOMPSON
 DESIGNED BY: MARK J. MRUK
 DESIGN SUPERVISOR: RONALD J. KLINCZAR



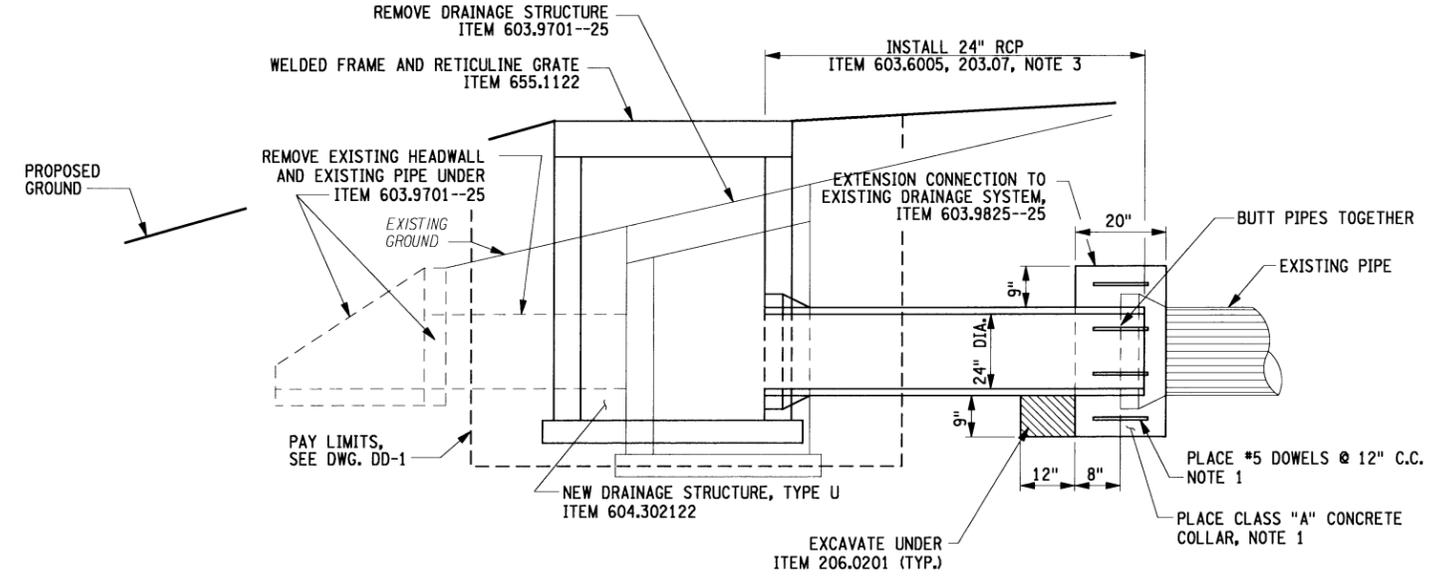
PLAN - DRAINAGE STRUCTURE #5 STA 524+93±
 SCALE: 1" = 20'



PLAN - DRAINAGE STRUCTURE #6 STA 528+98±
 SCALE: 1" = 20'



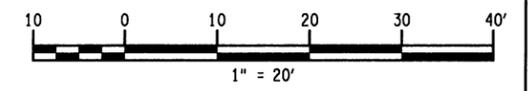
**SECTION C-C
 DRAINAGE STRUCTURE #5**
 N.T.S.



**SECTION D-D
 DRAINAGE STRUCTURE #6**
 N.T.S.

- NOTES:**
1. MATERIALS INCLUDED IN ITEM 603.9825--25 - EXTENSION CONNECTION TO EXISTING DRAINAGE SYSTEM.
 2. SEE NYS DOT STANDARD SHEET 603-04 FOR FURTHER DETAILS.
 3. LIMITS OF TRENCH AND CULVERT EXCAVATION AND BACKFILL OF THE TRENCH TO BE CONSTRUCTED PER NYS DOT STANDARD SHEET 203-04. PROVIDE ITEM 552.17, SHIELDS AND SHORING AS REQUIRED.

PAY LIMITS, SEE DWG. DD-1



ITEM	DESCRIPTION	UNIT
203.07	SELECT GRANULAR FILL	CY
206.0201	TRENCH AND CULVERT EXCAVATION	CY
552.17	SHIELDS AND SHORING	SF
555.0105	CONCRETE FOR STRUCTURES, CLASS A	CY
603.0101	CULVERT-END SAFETY GRATE	SF
603.7305	REINFORCED CONCRETE PIPE END SECTIONS 24 INCH DIAMETER	EA
603.6005	REINFORCED CONCRETE PIPE, CLASS III, 24 INCH DIAMETER	LF
603.9701--25	REMOVAL OF EXISTING DRAINAGE STRUCTURES	EA
603.9825--25	EXTENSION CONNECTION TO EXISTING DRAINAGE SYSTEM	EA
604.302122	RECTANGULAR DRAINAGE STRUCTURE TYPE U FOR #22 WELDED FRAME	LF
655.1122	WELDED FRAME AND RETICULINE GRATE 22	EA

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

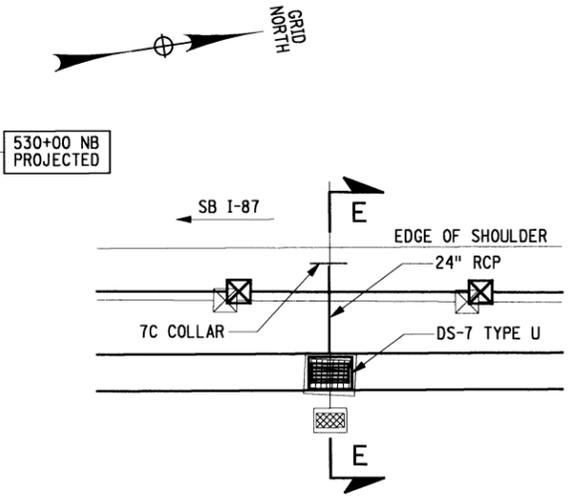
Thruway Authority | **Canal Corporation**
M M
 MOTT MACDONALD

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING DRAINAGE DETAILS STRUCTURES 5 AND 6	DRAWING NUMBER: DD-3

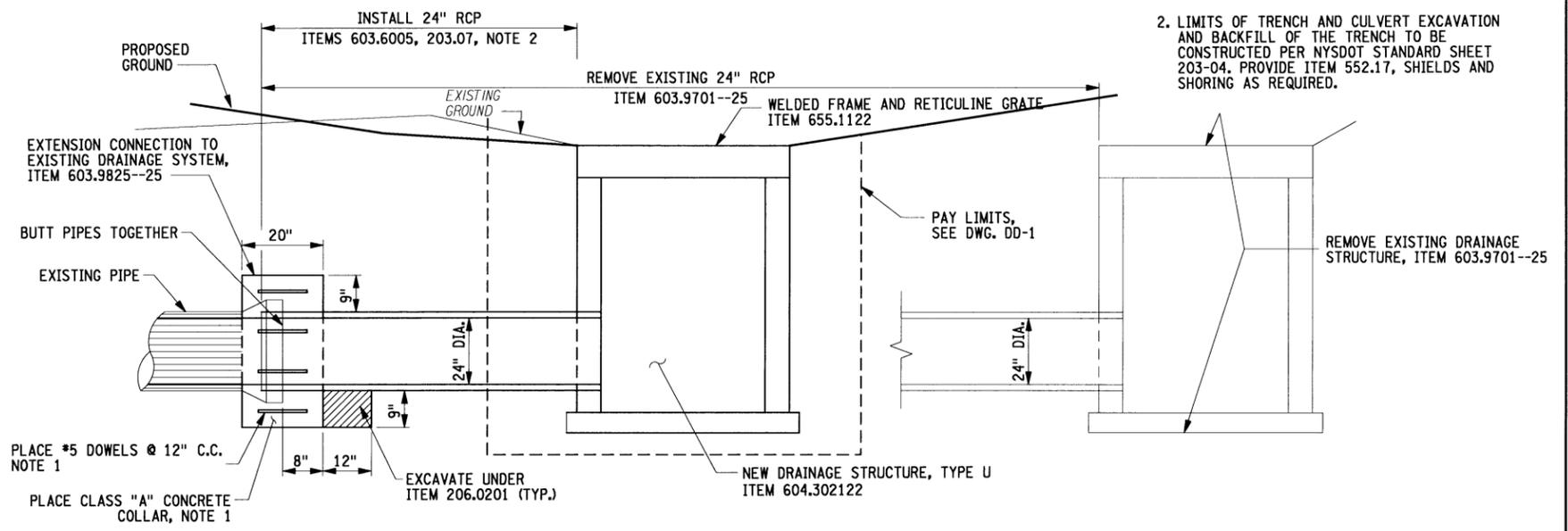


FILE NAME = P:\NYS\TA\231794 Williamsville Toll Barrier\ASSIGNMENT-10 MP 115 TO MP 116, Drafting Services\CAD\DRAWINGS\PHM DRAWINGS\031-DD-3.dgn
 DATE/TIME = 9/26/2016

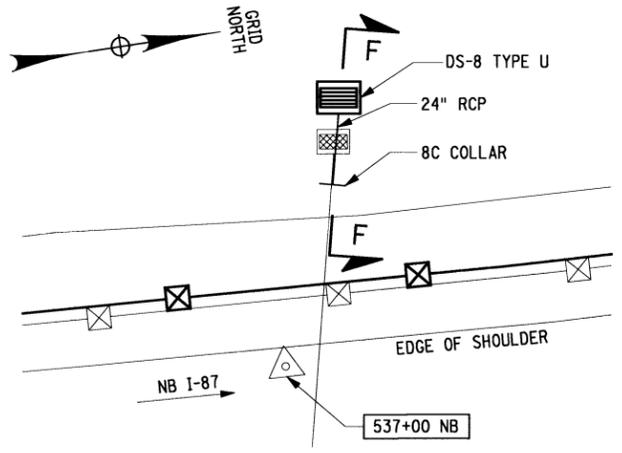
- NOTES:**
1. MATERIALS INCLUDED IN ITEM 603.9825--25
- EXTENSION CONNECTION TO EXISTING DRAINAGE SYSTEM.
 2. LIMITS OF TRENCH AND CULVERT EXCAVATION AND BACKFILL OF THE TRENCH TO BE CONSTRUCTED PER NYS DOT STANDARD SHEET 203-04. PROVIDE ITEM 552.17, SHIELDS AND SHORING AS REQUIRED.



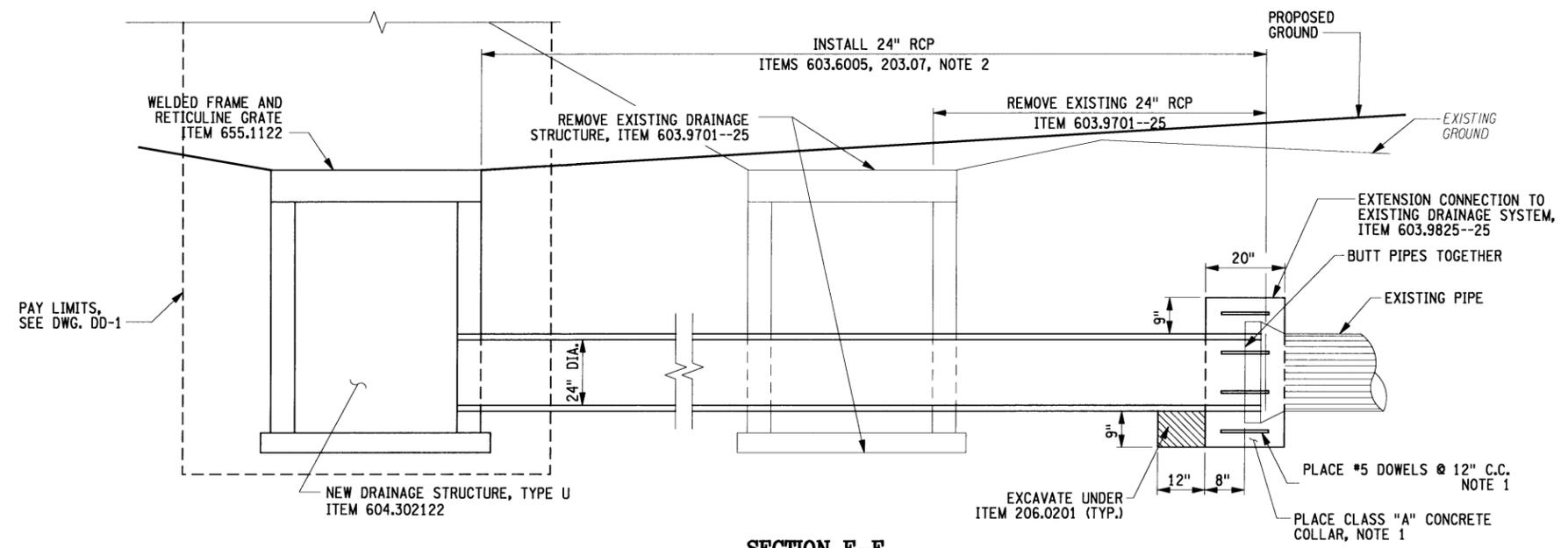
PLAN - DRAINAGE STRUCTURE #7 STA 530+44.19±
SCALE: 1" = 20'



**SECTION E-E
DRAINAGE STRUCTURE #7**
N.T.S.

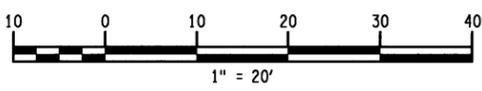


PLAN - DRAINAGE STRUCTURE #8 STA 537+07.77±
SCALE: 1" = 20'



**SECTION F-F
DRAINAGE STRUCTURE #8**
N.T.S.

ITEM	DESCRIPTION	UNIT
203.07	SELECT GRANULAR FILL	CY
206.0201	TRENCH AND CULVERT EXCAVATION	CY
552.17	SHIELDS AND SHORING	SF
603.6005	REINFORCED CONCRETE PIPE, CLASS III, 24 INCH DIAMETER	LF
603.9701--25	REMOVAL OF EXISTING DRAINAGE STRUCTURES	EA
603.9825--25	EXTENSION CONNECTION TO EXISTING DRAINAGE SYSTEM	EA
604.302122	RECTANGULAR DRAINAGE STRUCTURE TYPE U FOR #22 WELDED FRAME	LF
655.1122	WELDED FRAME AND RETICULINE GRATE 22	EA



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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

NEW YORK STATE OF OPPORTUNITY

Thruway Authority | **Canal Corporation**

M
MOTT MACDONALD

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING DRAINAGE DETAILS STRUCTURES 7 AND 8	DRAWING NUMBER: DD-4

DESIGNED BY: MARK J. MRUK
CHECKED BY: PHILLIP J. THOMPSON
DRAFTED BY: DEAN M. LAMB
CHECKED BY: MARK J. MRUK

ALTERED ON: _____

SIGNATURE STAMP: _____

AFFIXED ON: **09/26/2016**

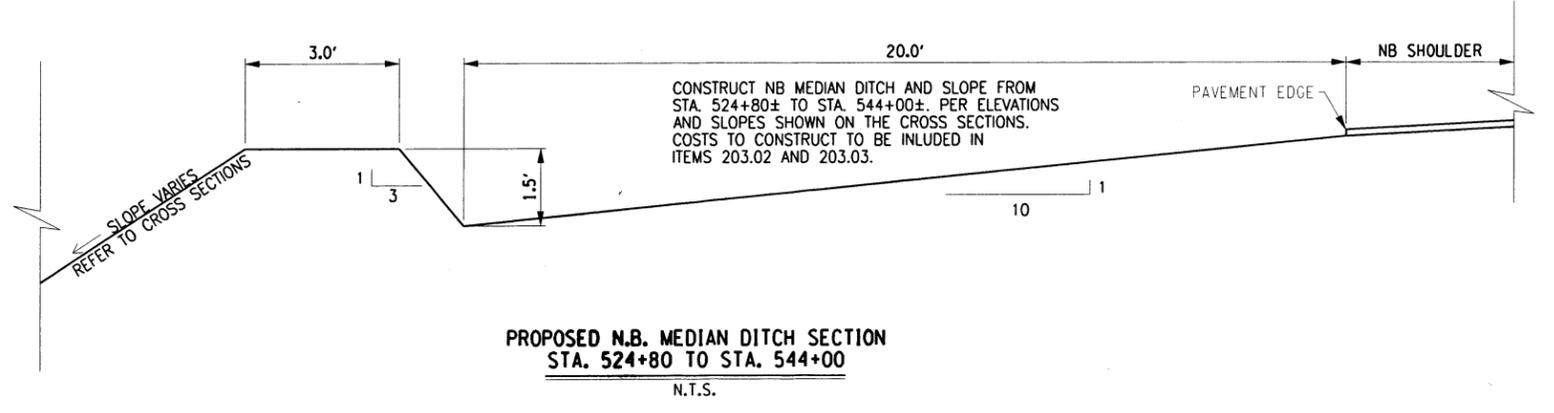
SIGNATURE STAMP: _____

STATE OF NEW YORK
MARK J. MRUK
NO. 070124
LICENSED PROFESSIONAL ENGINEER

FILE NAME = P:\NYSTA\237794 Williamsville Toll Barrier\ASSIGNMENT-10 MP 115 to MP 116, Drafting Services\CAD\DRAWINGS\HMM DRAWINGS\032_DD-4.dgn
DATE/TIME = 9/26/2016

DESIGNED BY: C. KANEG
 CHECKED BY: J. PEGARELLA
 DRAFTED BY: TA
 CHECKED BY: C. KANEG
 FILE

DRAINAGE TABLE								
DRAINAGE WORK LOCATION NUMBER	DRAINAGE STRUCTURE LOCATION (STATION)	DRAWING NUMBER	ITEM 203.51 - ESTABLISHING NEW DITCHES AND SLOPES	ITEM 209.1702 - DRAINAGE STRUCTURE INLET PROTECTION, GRAVEL BAG - TEMP.	ITEM 621.03 - CLEANING CLOSED DRAINAGE SYSTEMS	ITEM 621.04 - CLEANING DRAINAGE STRUCTURES	ORANGE CONSTRUCTION BARRICADE FENCING PLACE AROUND D.I. INCLUDE COST IN ITEM 619.01	
			LF	CY	LF	EA	LF	
							REMARKS	
1	NB 490+52±	P-1	—	2.0	120.0	1.0	—	INSTALL NEW DRAINAGE STRUCTURE, SEE DWG. DT-2
2	NB PROJ. 491+25±	P-1	—	2.0	100.0	1.0	—	INSTALL NEW DRAINAGE STRUCTURE, SEE DWG. DT-2
3	NB PROJ. 510+27±	P-5	—	2.0	—	—	32.0	NO WORK AT STRUCTURE
4	519+07.51±	P-7	—	2.0	90.0	—	32.0	NO WORK AT STRUCTURE
5	NB PROJ. 524+93±	P-8	—	2.0	86.0	1.0	—	INSTALL NEW DRAINAGE STRUCTURE, SEE DWG. DT-2
6	NB 526+98±	P-8	110.0	2.0	115.0	1.0	—	INSTALL NEW DRAINAGE STRUCTURE, SEE DWG. DT-2
7	NB 530+44±	P-9	—	2.0	84.0	1.0	—	INSTALL NEW DRAINAGE STRUCTURE, SEE DWG. DT-2
8	NB 537+10±	P-10	—	2.0	68.0	1.0	—	INSTALL NEW DRAINAGE STRUCTURE, SEE DWG. DT-2
9	546+11.77±	P-12	—	2.0	90.0	—	32.0	NO WORK AT STRUCTURE
10	548+11.96±	P-12	—	2.0	300.0	—	32.0	NO WORK AT STRUCTURE
11	551+09.75±	P-13	—	2.0	300.0	—	32.0	NO WORK AT STRUCTURE
12	554+11.07±	P-13	—	2.0	240.0	—	32.0	NO WORK AT STRUCTURE
13	557+13.87±	P-14	—	2.0	680.0	—	32.0	NO WORK AT STRUCTURE
14	562+74.70±	P-15	—	2.0	—	—	32.0	NO WORK AT STRUCTURE
TOTALS			110.0	28.0	2483.0	6.0	256.0	



ALTERED ON:	AFFIXED ON: <i>9/30/16</i>
SIGNATURE: STAMP:	SIGNATURE: STAMP:

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REVISIONS			
DATE	DESCRIPTION	BY	SYM.

Thruway Authority Canal Corporation	TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
	LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
	TITLE OF DRAWING DRAINAGE MODIFICATION AND SLOPE FLATTENING TABLE	DRAWING NUMBER: DT-1

FILED
 CHECKED BY: MARK J. MRUK
 DRAFTED BY: DEAN M. LAMB
 CHECKED BY: PHILLIP J. THOMPSON
 DESIGNED BY: MARK J. MRUK
 DESIGN SUPERVISOR: RONALD J. KLINGZAR

DRAINAGE TABLE																					
STRUCTURE NUMBER	LOCATION (NOTE 1)	OFFSET	STRUCTURE TYPE	GRATE	RIM	EXITING INVERT	RECEIVING INVERT	SLOPE	ITEM 206.0201 TRENCH AND CULVERT EXCAVATION (CY)	ITEM 203.07 SELECT GRANULAR FILL (CY)	ITEM 552.17 SHIELDS AND SHORING (SF)	ITEM 555.0105 CONCRETE FOR STRUCTURES, CLASS A (CY)	ITEM 603.0101 CULVERT-END SAFETY GRATE (SF)	ITEM 603.0005 REINFORCED CONCRETE PIPE, CLASS III, 24 INCH DIAMETER (LF)	ITEM 603.7305 REINFORCED CONCRETE PIPE END SECTIONS 24 INCH DIAMETER (EA)	ITEM 603.9701-25 REMOVAL OF EXISTING DRAINAGE STRUCTURES (EA)	ITEM 603.9825-25 EXTENSION CONNECTION TO EXISTING DRAINAGE SYSTEM (EA)	ITEM 604.302122 RECTANGULAR DRAINAGE STRUCTURE TYPE U FOR #22 WELDED FRAME (LF)	ITEM 655.1122 WELDED FRAME AND RETICULINE GRATE #22 (EA)	DESCRIPTION	
DS-1	NB 490+52	45' LEFT	U	#22		317.00	310.24	310.14	1.04%	20.7	22.7			10					7.8	1	EXCAVATE AND CONSTRUCT NEW STRUCTURE DS-1 AND PIPE TO 1C.
1C	NB 490+55	36' LEFT	COLLAR/ CONNECTION				310.14													1	CONNECT NEW PIPE FROM DS-1 TO EXISTING DRAINAGE SYSTEM AT 1C.
DS-2	NB PROJECTED 491+25	34' RIGHT	U	#22		317.80	314.41	314.30	1.10%	14.9	16.4			10					4.5	1	EXCAVATE AND CONSTRUCT NEW STRUCTURE DS-2 AND PIPE TO 2C.
2C	NB PROJECTED 491+25	24' RIGHT	COLLAR/ CONNECTION				314.30													1	CONNECT NEW PIPE FROM DS-2 TO EXISTING DRAINAGE SYSTEM AT 2C.
DS-5	NB PROJECTED 524+93	27' RIGHT	U	#22		325.50	318.05	317.81	3.49%	25.3	22.4	209.1		7					8.5	1	EXCAVATE, INSTALL SHIELDS AND SHORING AND CONSTRUCT NEW STRUCTURE DS-5 AND PIPE TO 5C.
5E	NB PROJECTED 524+93	20' RIGHT	END SECTION				321.50	321.40	2.00%	0.6		0.58	30	5	1						CONSTRUCT END SECTION 5E AND PIPE LEADING TO PROPOSED STRUCTURE DS-5.
5C	NB PROJECTED 524+93	20' RIGHT	COLLAR/ CONNECTION				317.81													1	CONNECT NEW PIPE FROM DS-5 TO EXISTING DRAINAGE SYSTEM AT 5C.
DS-6	NB 526+98	26' LEFT	U	#22		351.70	342.44	342.34	1.00%	36.0	27.4	315.4		10					10.3	1	EXCAVATE, INSTALL SHIELDS AND SHORING AND CONSTRUCT NEW STRUCTURE DS-6 AND PIPE TO 6C.
6C	NB 526+97	16' LEFT	COLLAR/ CONNECTION				342.34													1	CONNECT NEW PIPE FROM DS-6 TO EXISTING DRAINAGE SYSTEM AT 6C.
DS-7	NB PROJECTED 530+44	18' RIGHT	U	#22		327.63	323.57	323.47	2.00%	31.0	14.9	243.9		5					5.1	1	EXCAVATE, INSTALL SHIELDS AND SHORING AND CONSTRUCT NEW STRUCTURE DS-7 AND PIPE TO 7C.
7C	NB PROJECTED 530+44	13' RIGHT	COLLAR/ CONNECTION				323.57													1	CONNECT NEW PIPE FROM DS-7 TO EXISTING DRAINAGE SYSTEM AT 7C.
DS-8	NB 537+10	26' LEFT	U	#22		346.96	344.04	343.81	2.26%	20.9	15.5	182.3		10					4.0	1	EXCAVATE, INSTALL SHIELDS AND SHORING AND CONSTRUCT NEW STRUCTURE DS-8 AND PIPE TO 8C.
8C	NB 537+07	17' LEFT	COLLAR/ CONNECTION				343.81													1	CONNECT NEW PIPE FROM DS-8 TO EXISTING DRAINAGE SYSTEM AT 8C.
TOTAL									150	120	951	1	30	57	1	5	6	41	6		

NOTES:
 1. LOCATIONS ARE APPROXIMATE. FIELD CONFIRM EXISTING PIPE LOCATIONS AND INVERTS. ADJUST LOCATION AND PIPE SLOPES AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS. PROVIDE SHOP DRAWING SUBMITTALS USING FIELD CONFIRMED DATA.

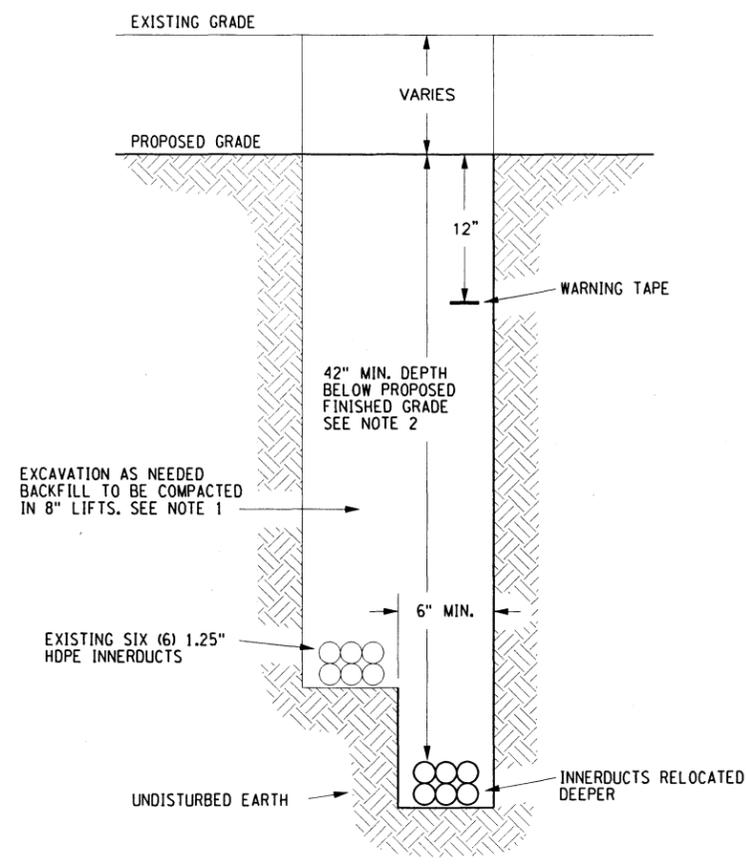
ALTERED ON:	AFFIXED ON: <i>October 11, 2016</i>
SIGNATURE: STAMP:	SIGNATURE: STAMP: 

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

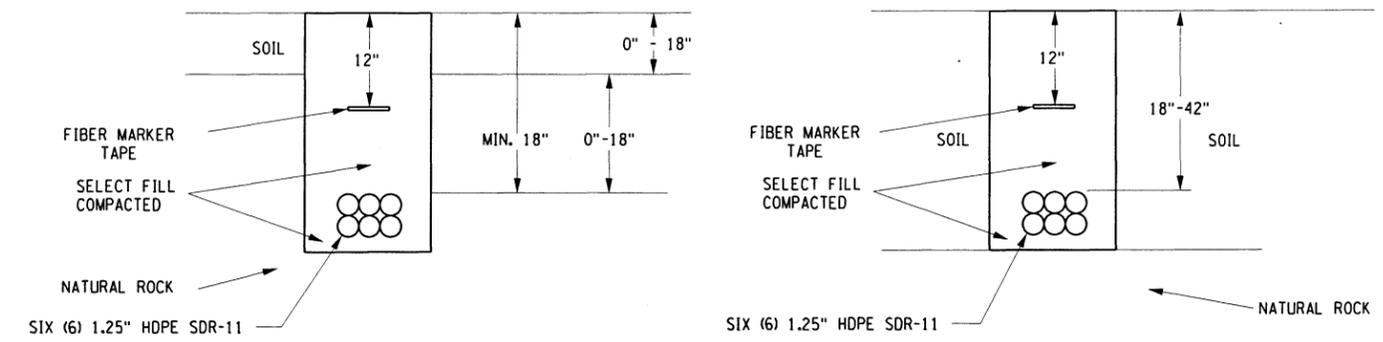

Thruway Authority | **Canal Corporation**
M M
 HOTT MACDONALD

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING NEW STRUCTURES DRAINAGE TABLE	DRAWING NUMBER: DT-2



TYPICAL VERTICAL FIBER OPTIC RELOCATION

ITEM 670.8888--25
N.T.S.



TRENCH IN ROCK
TYPICAL VERTICAL FIBER OPTIC RELOCATION IN ROCK

ITEM 670.8888--25
N.T.S.

NOTES:

1. BACKFILL WILL BE EARTH WHICH IS REMOVED FROM DITCH FREE FROM DEBRIS, CINDERS AND ROCKS MEASURING 4 INCHES (10CM) OR GREATER ACROSS THEIR LARGEST DIMENSION.
2. CONTRACTOR SHALL RELOCATE THE FIBER OPTIC LINES DEEPER AS NEEDED TO MAINTAIN A MINIMUM 42" COVER DEPTH BELOW PROPOSED FINAL GRADE.
3. CONTRACTOR MUST BE PREPARED TO INCREASE THE LENGTH OF INNERDUCT WITH COMPATIBLE SPLIT DUCT WHICH MUST BE SUBMITTED FOR ENGINEER'S APPROVAL. ASSUME ADEQUATE FIBER SLACK IS AVAILABLE FOR RELOCATION AND EXTENSION IF REQUIRED.

FILE
 CHECKED BY: C.KANEG
 DRAFTED BY: TA
 CHECKED BY: J.PEGARELLA
 DESIGNED BY: C.KANEG
 DESIGN SUPERVISOR: A. MASTROIANNI

ALTERED ON:	AFFIXED ON: 9/26/16
SIGNATURE: STAMP:	SIGNATURE: STAMP:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



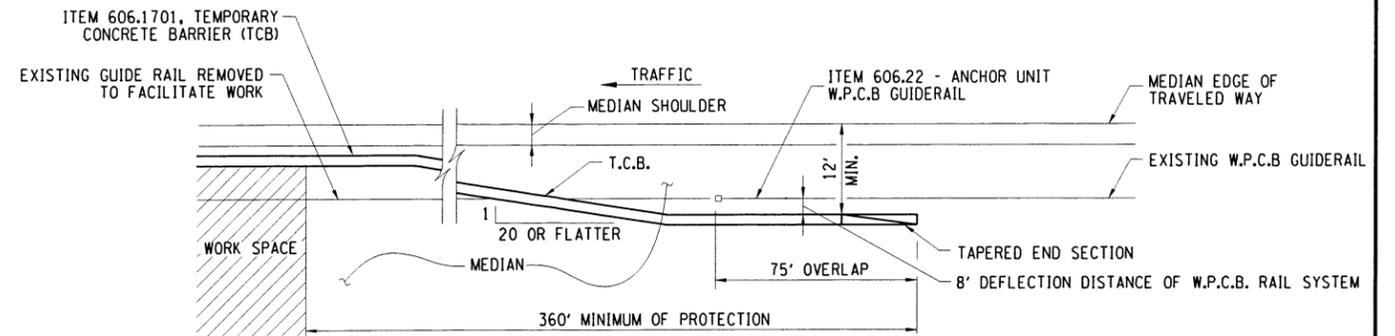
TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING MISCELLANEOUS DETAILS	DRAWING NUMBER: MD-1

MEDIAN GUIDE RAIL TABLE

R=GUIDE RAIL REMOVAL I= GUIDERAIL INSTALLATION	APPROXIMATE MILEPOST	DRAWING NUMBER	ITEM 606.18 - MODIFIED C2 WEAK-POST, CORRUGATED BEAM GUIDE RAIL	ITEM 606.180001 - MODIFIED C2 WEAK-POST, CORRUGATED BEAM GUIDE RAIL (SHOP CURVE)	ITEM 606.22 - ANCHORAGE UNIT FOR CORRUGATED BEAM GUIDE RAILING	ITEM 606.2701 - HEAVY POST BLOCKED OUT (MOD.) CORRUGATED BEAM GUIDE RAILING	ITEM 606.5910 - RESETTING ANCHOR UNIT FOR CORR. BEAM GUIDERAIL	ITEM 606.59100125 - RESETTING END TERMINAL FOR HP80 CORR. BEAM GUIDERAIL	ITEM 606.69100125 - REMOVE AND STORE END TERMINAL FOR HP80 CORR. BEAM GUIDE RAIL AND MEDIAN BARRIER	ITEM 606.71 - REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	ITEM 606.7910 - REMOVE AND DISPOSE CORRUGATED BEAM GUIDE RAIL & MEDIAN BARRIER ANCHORAGE UNIT	ITEM 606.8902 - TRANSITION: HEAVY POST BLOCKED OUT (MOD.) CORRUGATED BEAM GUIDE RAILING TO WEAK POST CORRUGATED BEAM GUIDE RAILING	COMMENTS
			FT	FT	EA	FT	EA	EA	EA	FT	EA	EA	
R	115.05-116.10 N.B. MEDIAN	PL-1 TO PL-11	—	—	—	—	—	—	1.0	5,300.0	1.0	—	—
R	115.075-116.102 S.B. MEDIAN	PL-1 TO PL-11	—	—	1.0	—	—	—	—	5412.5	1.0	—	—
R	116.102-116.391 S.B. MEDIAN	PL-11 TO PL-14	—	—	—	—	—	—	—	1450.0	1.0	—	GUIDE RAIL TO REMAIN IN PLACE UNTIL COMPLETION OF ROCK WORK.
I	115.05-116.10 N.B. MEDIAN	P-1 TO P-11	5,287.5	50.0	2.0	—	1.0	—	—	—	—	—	SEE NOTE 1
I	115.075-116.425 S.B. MEDIAN	P-1 TO P-14	6950.0	—	1.0	50.0	—	1.0	—	—	—	1.0	SEE NOTE 1
DRAWING GR-1 TOTAL			12,237.5	50.0	3.0	50.0	1.0	1.0	1.0	12,162.5	3.0	1.0	—

NOTES:

1. PROPOSED GUIDE RAIL INSTALLATION TO BE IN THE SAME LOCATION AS EXISTING, UNLESS SPECIFIED ELSEWHERE. MINIMUM OF 8 FEET FROM BACK OF GUIDE RAIL TO ROCK FACE.



EXISTING MEDIAN GUIDE RAIL OVERLAP
AT TEMPORARY CONCRETE BARRIER, STA. 545+64.80 +/- SB

N.T.S.

NOTE:
REFER TO DWG. P-11 AND
P-12 FOR LOCATION.

FILED: C. KANEK
 CHECKED BY: C. KANEK
 DRAFTED BY: TA
 CHECKED BY: J. PEGARELLA
 DESIGNED BY: C. KANEK
 DESIGN SUPERVISOR: A. MASTROIANNI

ALTERED ON:	AFFIXED ON: 9/26/16
SIGNATURE: STAMP:	SIGNATURE: STAMP:

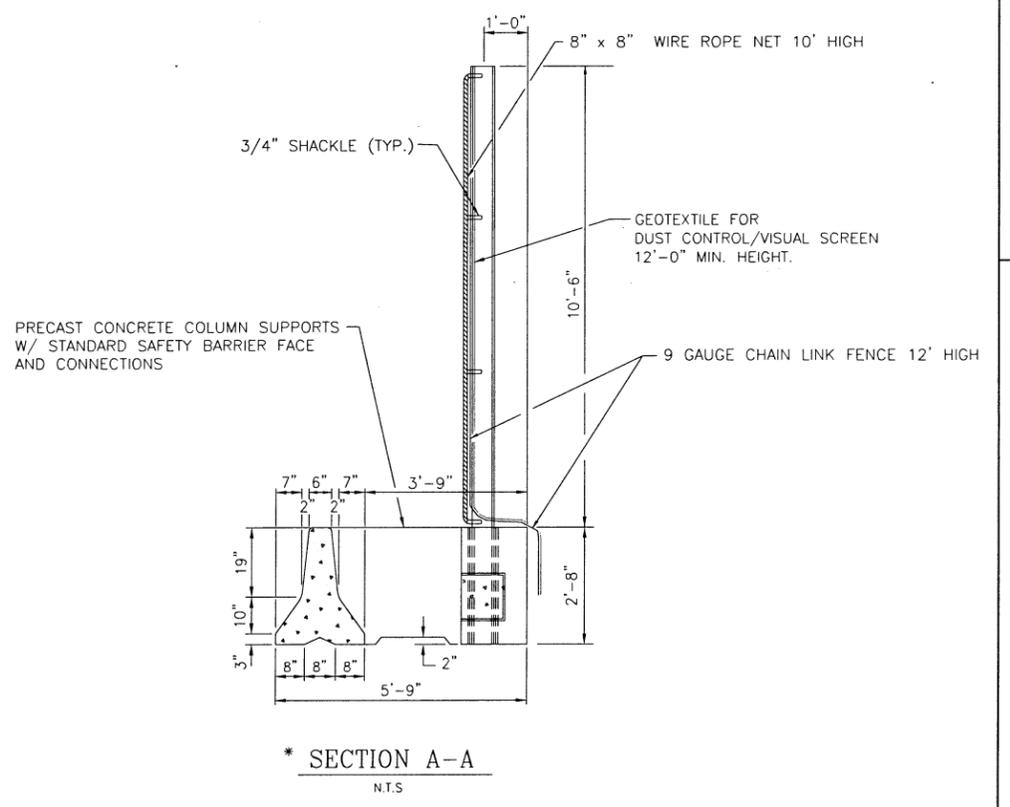
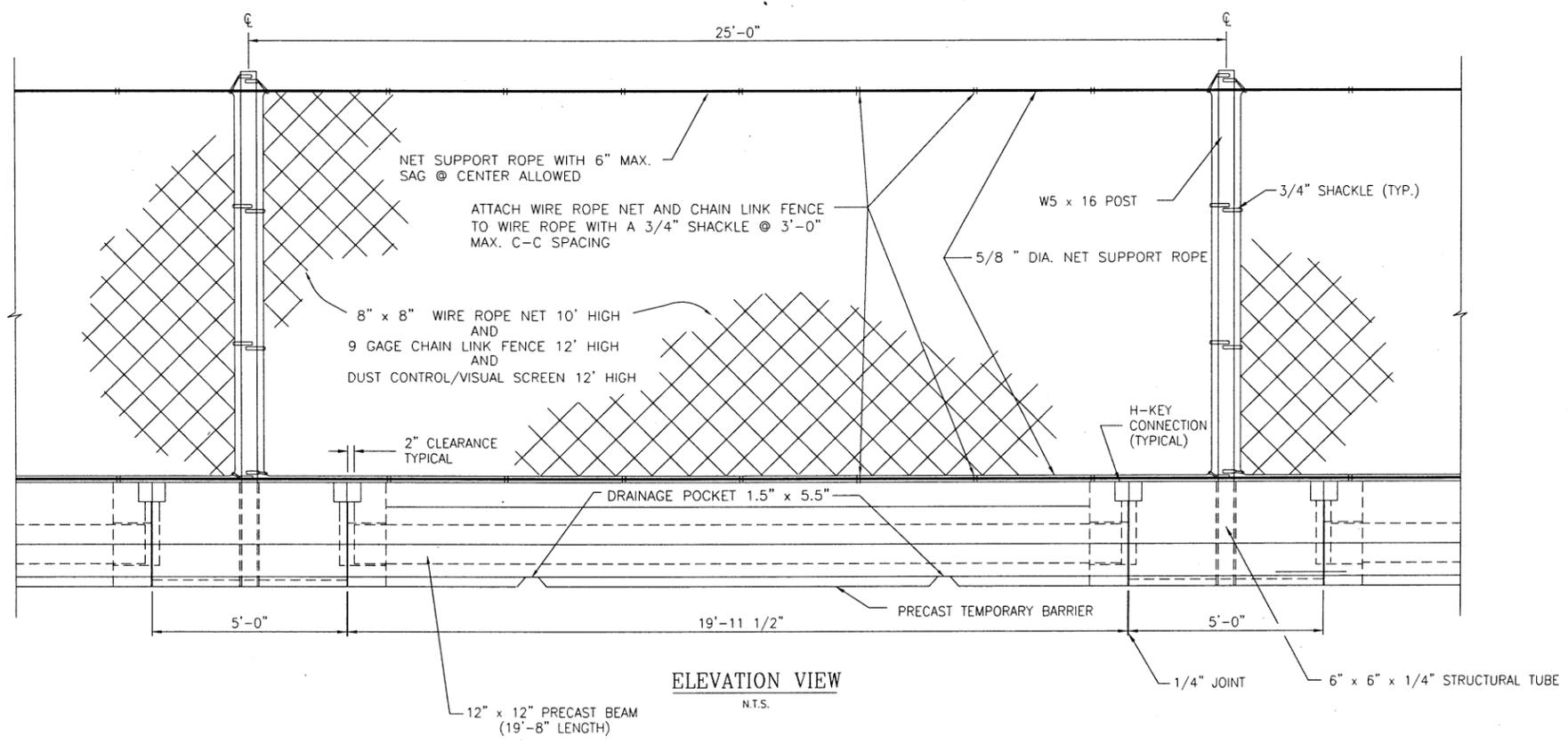
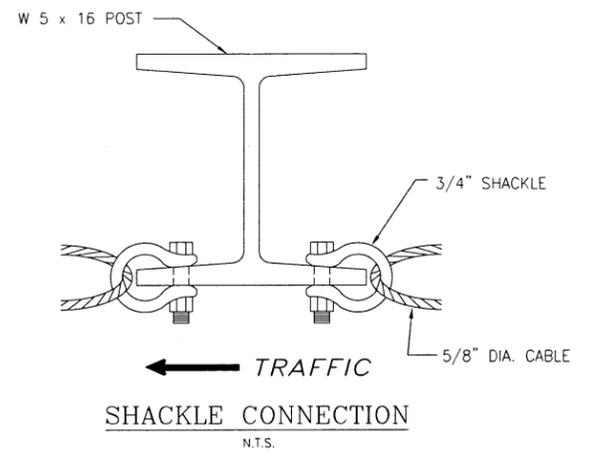
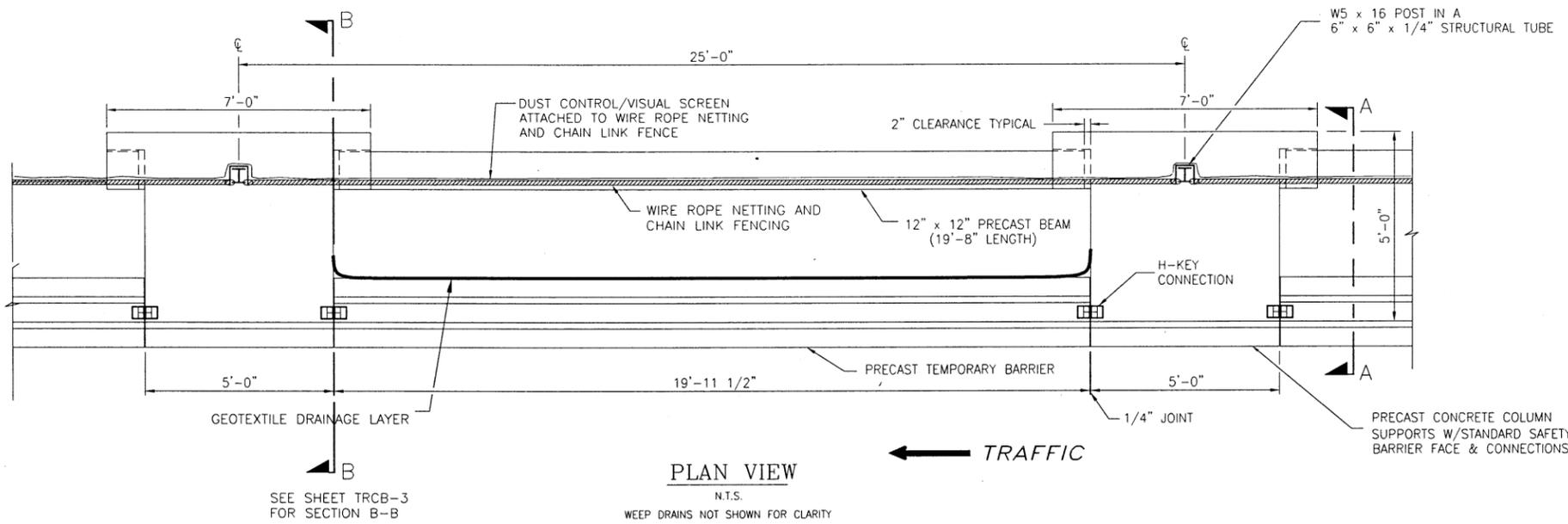
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

Thruway Authority | **Canal Corporation**

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0± TO M.P. 116.1± GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING GUIDRAIL TABLE AND MISC. SAFETY DETAILS	DRAWING NUMBER: GR-1

CHECKED BY: T. WEISSER
 DRAFTED BY: CAD
 CHECKED BY: T. WEISSER
 DESIGNED BY: T. WEISSER M. VIERLING
 DESIGN SUPERVISOR: R. FRAZIER



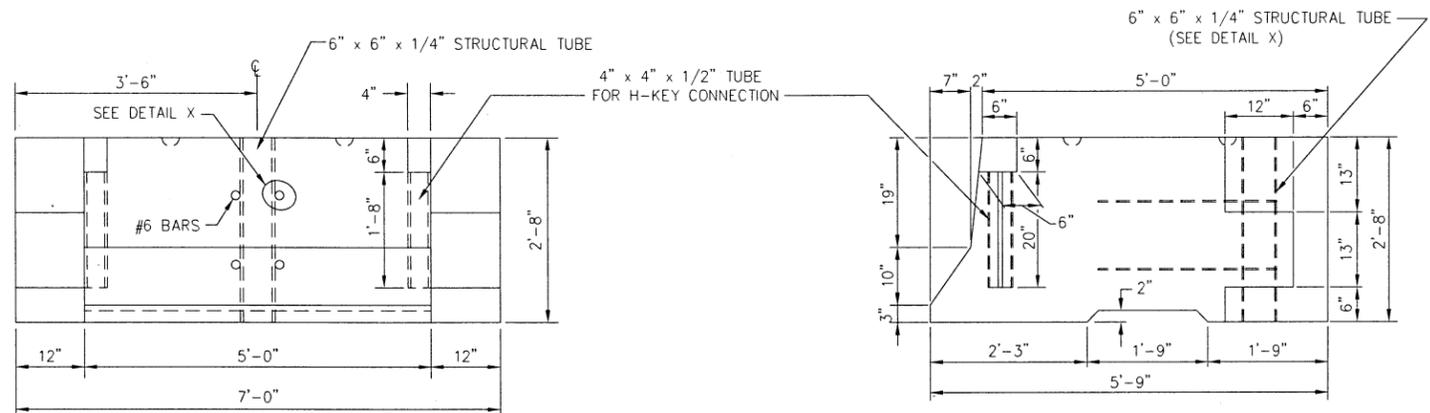
- NOTES:**
1. ALL DIMENSIONS ARE SHOWN IN INCHES UNLESS OTHERWISE NOTED.
 2. PRECAST UNITS SHALL NOT BE MORTARED OR PINNED IN PLACE.
 3. ALL COMPONENTS OF THE TEMPORARY ROCK CATCHMENT BARRIER INCLUDING, BUT NOT LIMITED TO, PRECAST TEMPORARY BARRIER, PRECAST COLUMN SUPPORT ANCHOR BLOCK, PRECAST BEAMS, STEEL COLUMN, WIRE ROPE NET, CHAIN LINK FENCE, DUST CONTROL/VISUAL SCREEN, WIRE ROPE, WEEP DRAINS, GEOTEXTILE, CONNECTING HARDWARE, ETC. SHALL BE FURNISHED AND INSTALLED UNDER ITEM 619.1725--25.
 4. DUST CONTROL/VISUAL SCREEN SHALL MEET THE REQUIREMENTS OF GEOTEXTILE DRAINAGE SECTION 737-01.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



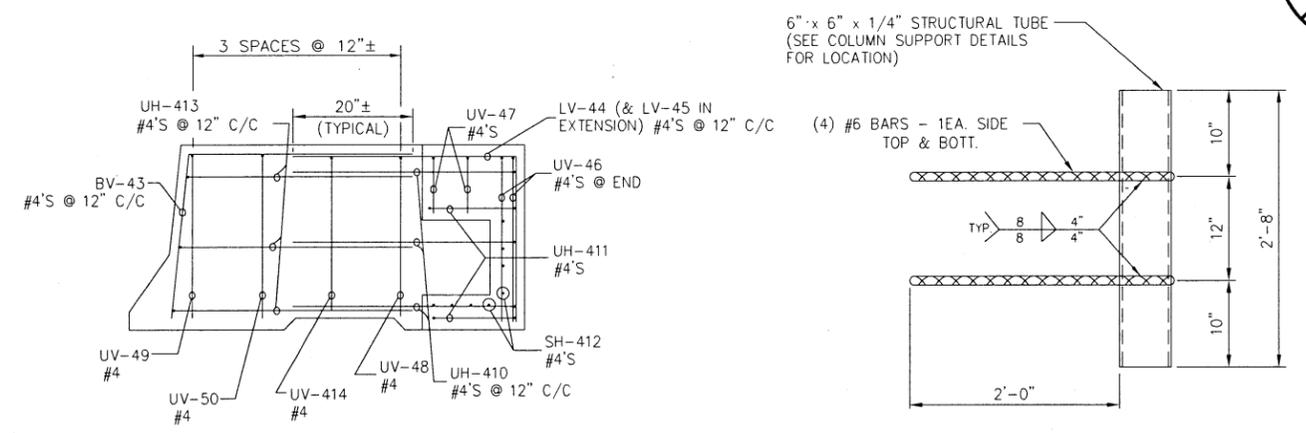
TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT MP 115.0 TO MP 116.1 GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING TEMPORARY ROCK CATCHMENT BARRIER ITEM 619.1725--25	DRAWING NUMBER: TRCB-1

CHECKED BY: T. WEISSER
 DRAFTED BY: CAD
 CHECKED BY: T. WEISSER
 DESIGNED BY: T. WEISSER M. VIERLING
 DESIGN SUPERVISOR: R. FRAZIER



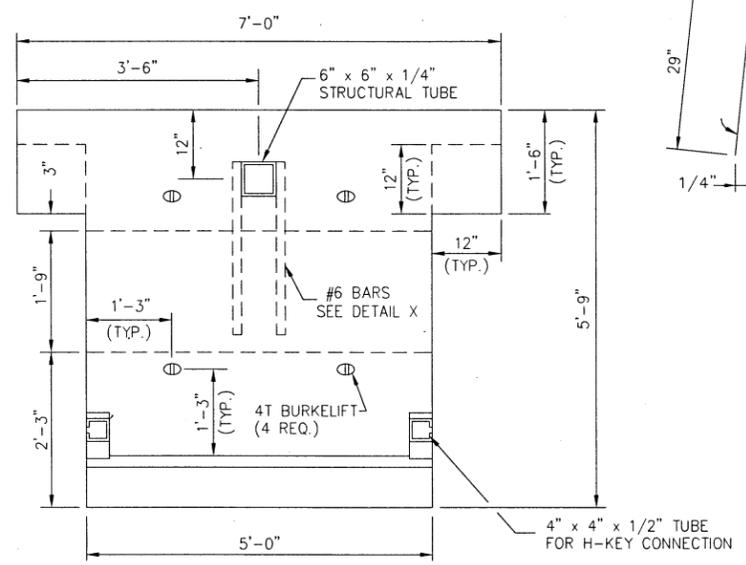
**COLUMN SUPPORT
FRONT ELEVATION VIEW**
N.T.S.

**COLUMN SUPPORT
SIDE ELEVATION VIEW**
N.T.S.

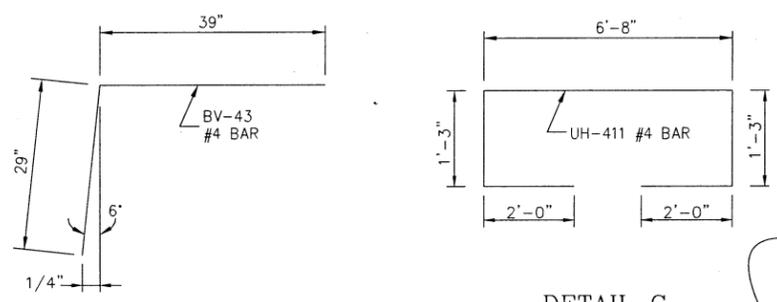


**COLUMN SUPPORT
REINFORCEMENT DETAIL**

**DETAIL X
N.T.S.**

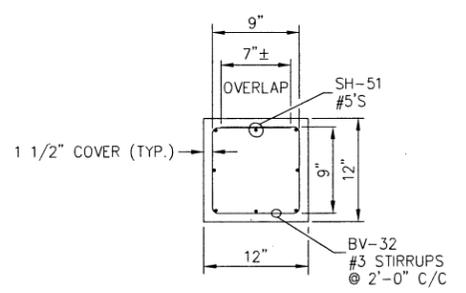


**COLUMN SUPPORT
PLAN VIEW**
N.T.S.

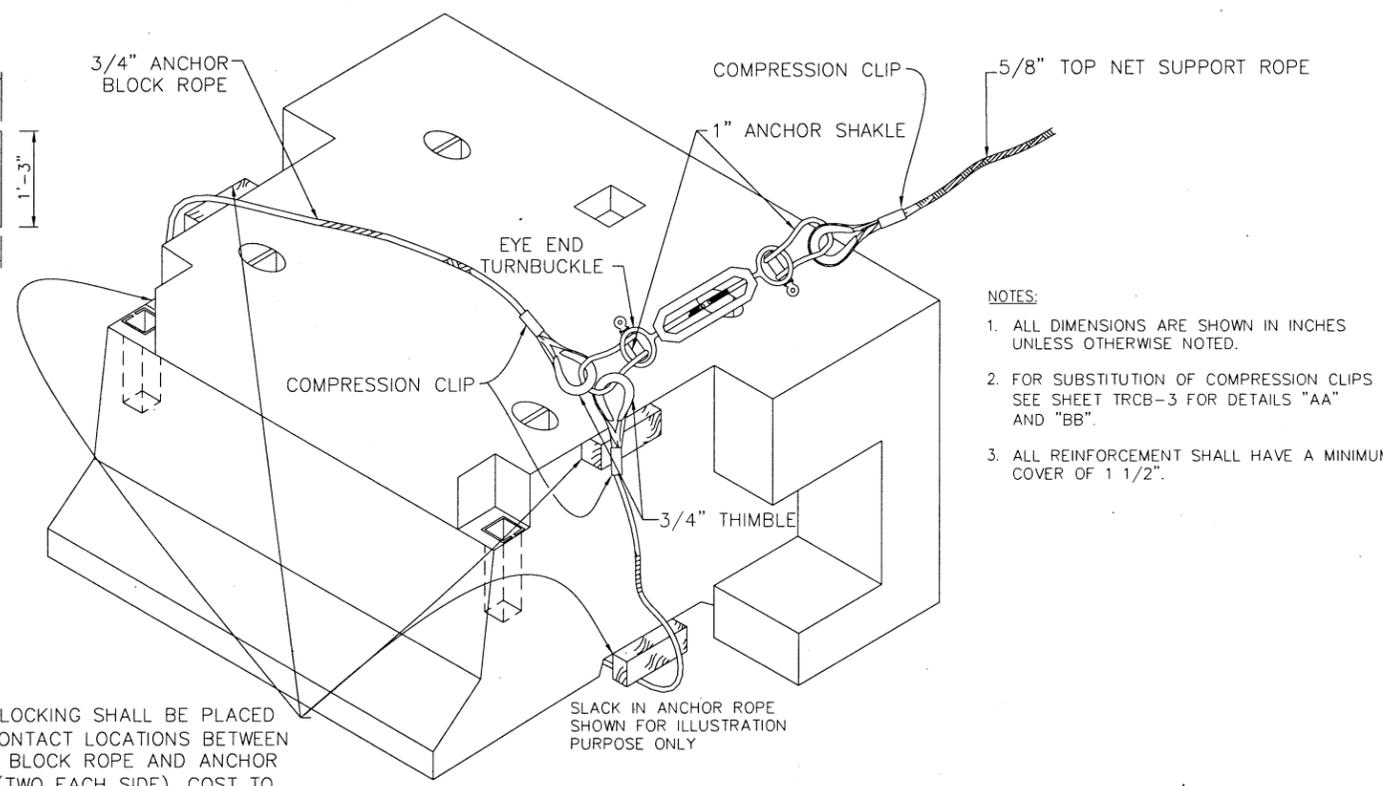


**DETAIL B
N.T.S.**

**DETAIL C
N.T.S.**



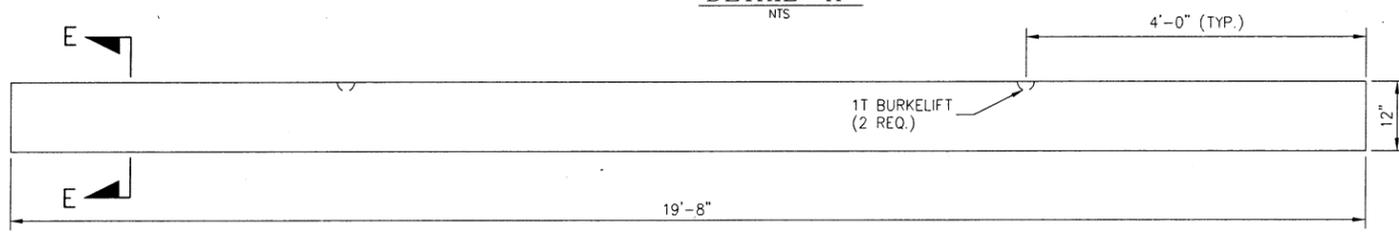
**SECTION E-E
N.T.S.**



**COLUMN SUPPORT ANCHOR BLOCK
DETAIL "A"
N.T.S.**

- NOTES:**
1. ALL DIMENSIONS ARE SHOWN IN INCHES UNLESS OTHERWISE NOTED.
 2. FOR SUBSTITUTION OF COMPRESSION CLIPS SEE SHEET TRCB-3 FOR DETAILS "AA" AND "BB".
 3. ALL REINFORCEMENT SHALL HAVE A MINIMUM COVER OF 1 1/2".

WOOD BLOCKING SHALL BE PLACED AT (4) CONTACT LOCATIONS BETWEEN ANCHOR BLOCK ROPE AND ANCHOR BLOCK (TWO EACH SIDE), COST TO BE INCLUDED IN ITEM 619.1725--25



**BEAM
ELEVATION VIEW**
N.T.S.

BAR LIST						
BAR MK. NO.	SIZE	TYPE	LENGTH	# REQ.	DIMENSIONS	LOCATION
SH-51	5	STRAIGHT	19'-5"	8	---	HORIZONTAL IN BEAM
BV-32	3	STIRRUP	3'-7"	11	SEE SECT. E-E	VERTICAL STIRRUPS-B
BV-43	4	BENT	5'-8"	6	SEE DETAIL B	VERTICAL @ FACE
LV-44	4	L-BAR	5'-8"	6	2'-5" X 3'-3"	VERTICAL @ BACK
LV-45	4	L-BAR	3'-8"	2	2'-5" X 1'-3"	VERTICAL @ BACK
UV-46	4	U-BAR	11'-7"	2	2'-5" X 6'-9" X 2'-5"	VERTICAL @ TOP
UV-47	4	U-BAR	8'-4"	2	9-1/2" X 6'-9" X 9-1/2"	VERTICAL @ TOP
UV-48	4	U-BAR	9'-3"	1	2'-3" X 4'-9" X 2'-3"	VERTICAL @ TOP
UV-49	4	U-BAR	8'-11"	1	2'-5" X 4'-1" X 2'-5"	VERTICAL @ TOP
UV-50	4	U-BAR	9'-7"	1	2'-5" X 4'-9" X 2'-5"	VERTICAL @ TOP
UH-410	4	U-BAR	11'-3"	3	3'-3" X 4'-9" X 3'-3"	HORIZONTAL @ BACK
UH-411	4	U-BAR	13'-3"	2	SEE DETAIL "C"	HORIZONTAL @ BACK
SH-412	4	STRAIGHT	6'-9"	8	---	AROUND NOTCH
UH-413	4	U-BAR	10'-7"	3	3'-3" X 4'-1" X 3'-3"	HORIZONTAL @ FACE
UV-414	4	U-BAR	9'-3"	1	2'-3" X 4'-9" X 2'-3"	VERTICAL @ TOP

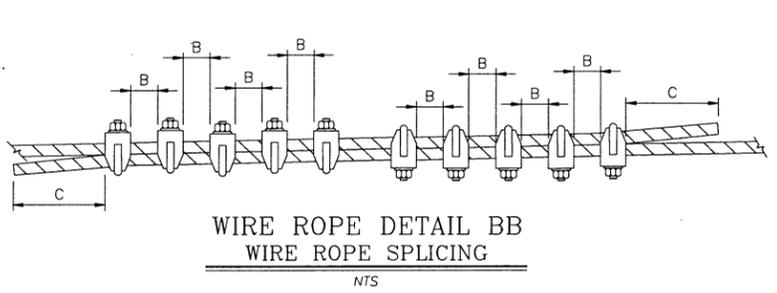
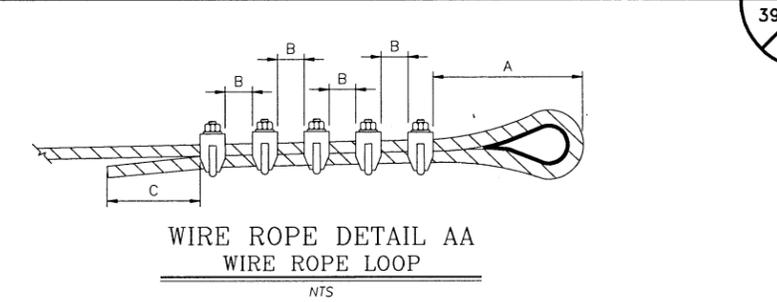
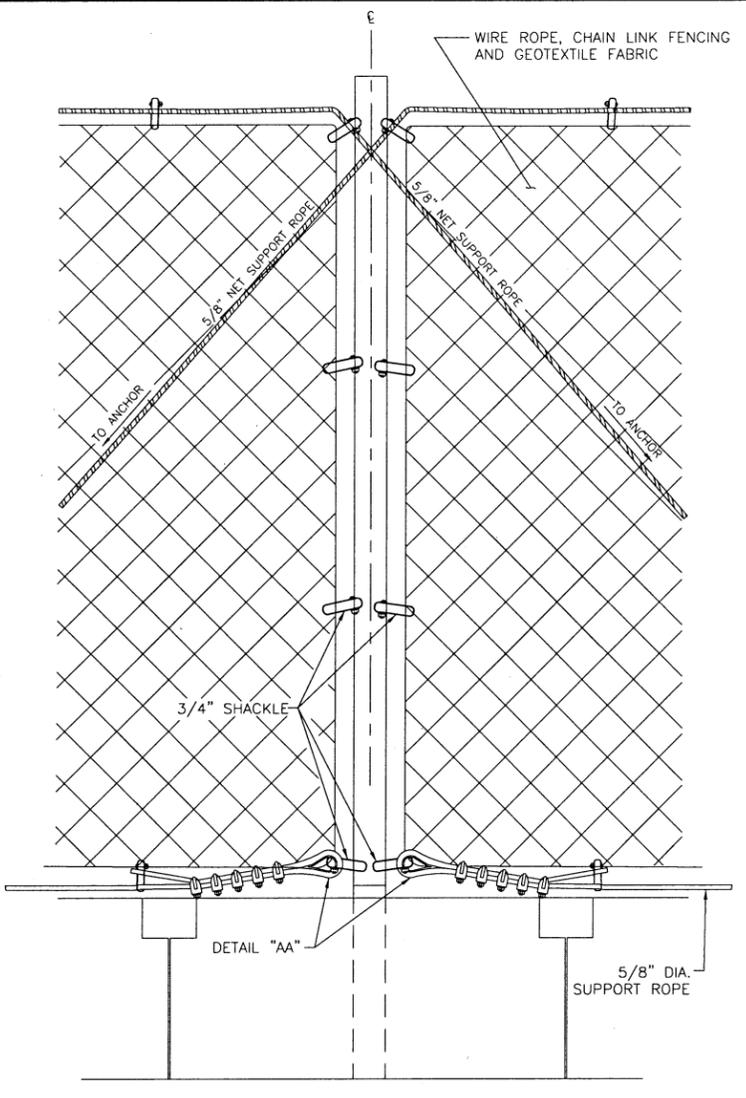
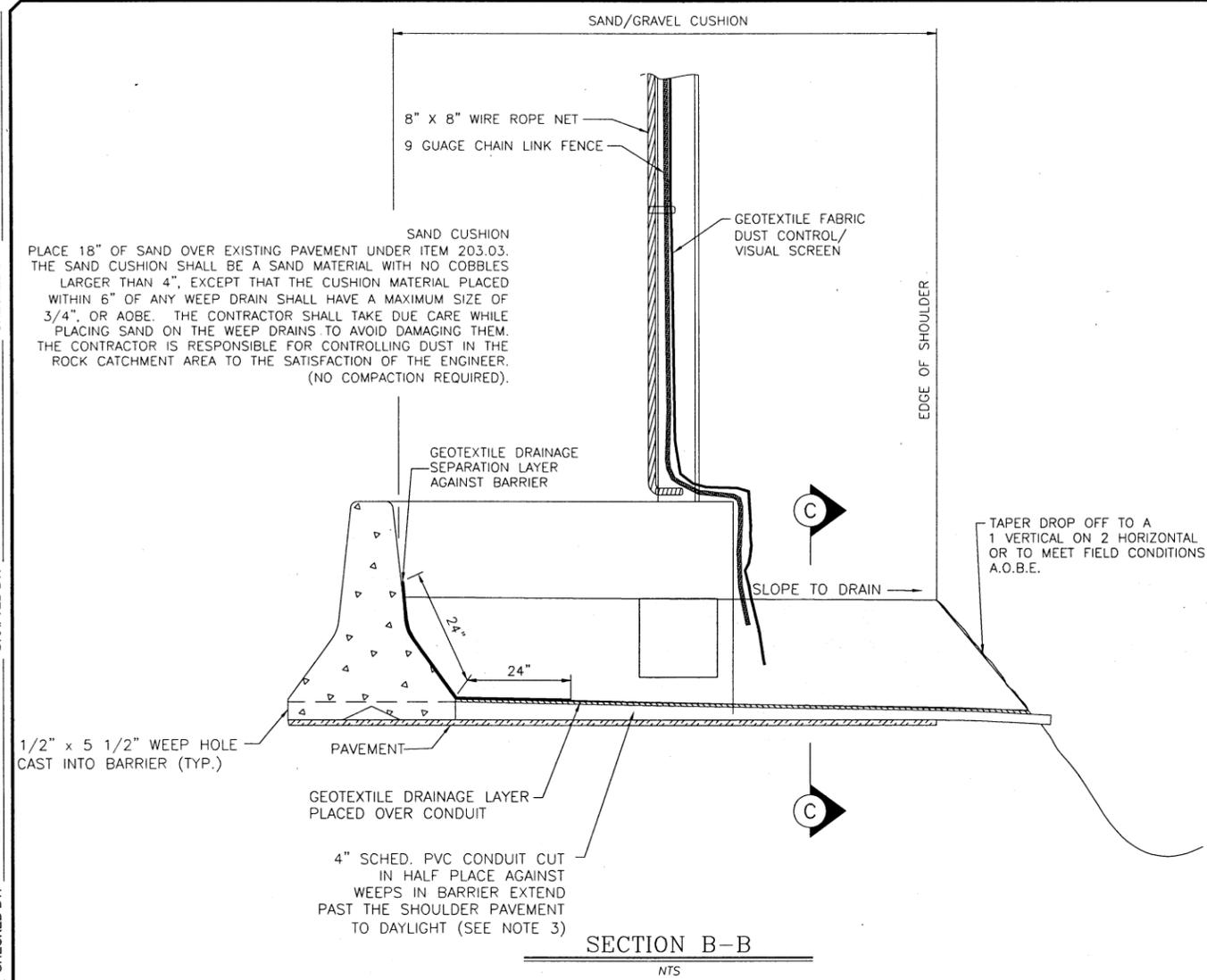
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



**Thruway Authority
Canal Corporation**

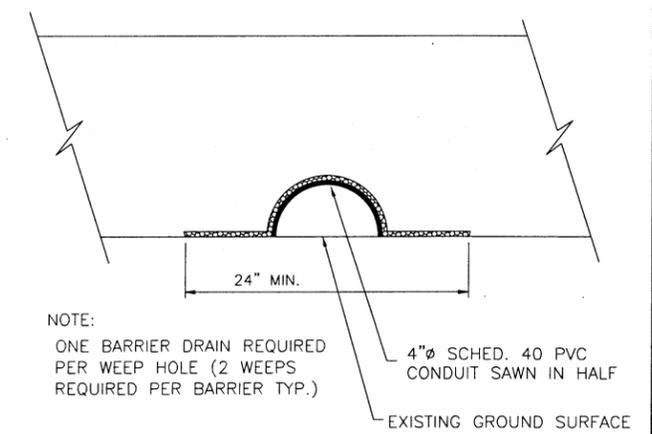
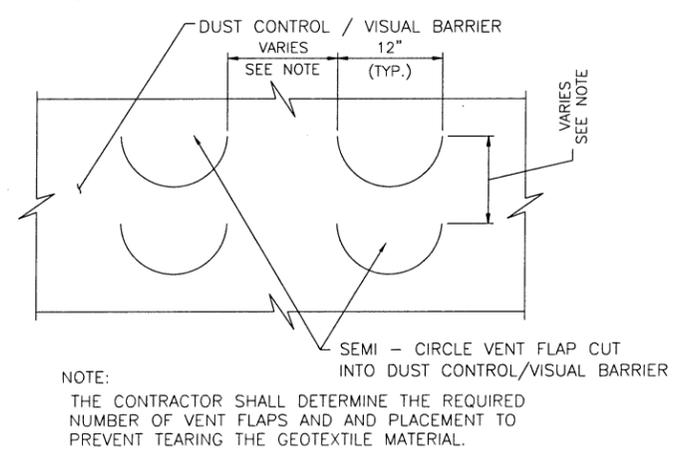
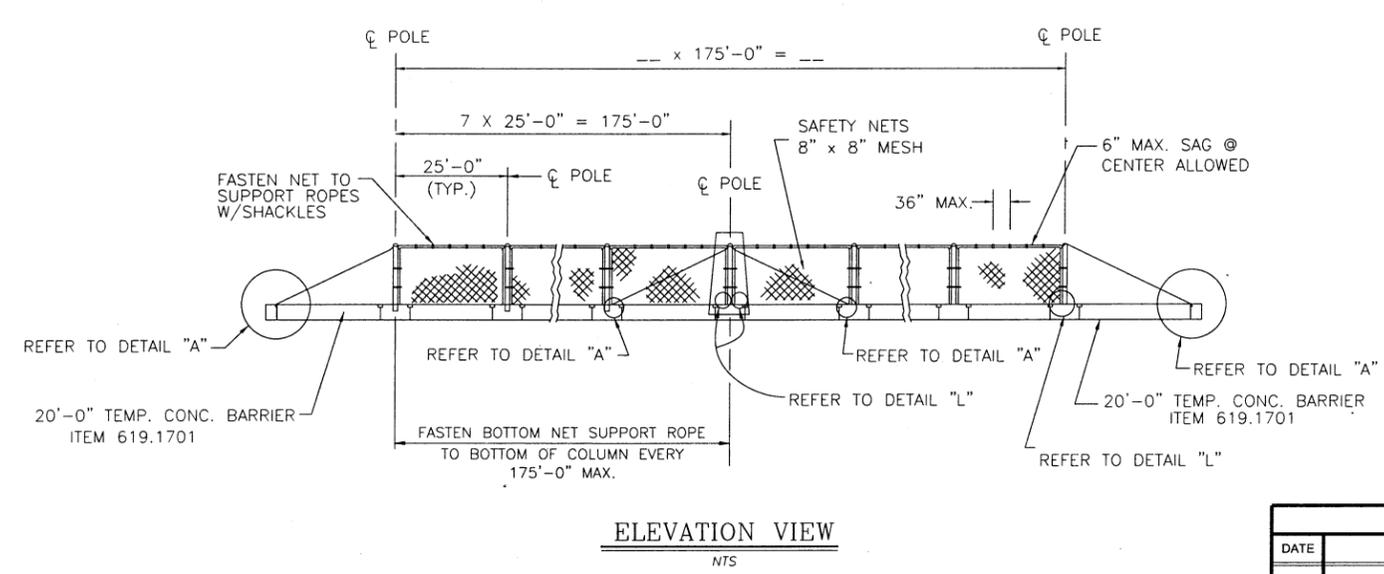
TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT MP 115.0 TO MP 116.1 GREENE COUNTY	DATE: 9/30/16
TITLE OF DRAWING TEMPORARY ROCK CATCHMENT BARRIER ITEM 619.1725--25	DRAWING NUMBER: TRCB-2

FILED
 CHECKED BY: T. WEISSER
 DRAFTED BY: CAD
 CHECKED BY: T. WEISSER
 DESIGNED BY: T. WEISSER M. WERLING
 DESIGN SUPERVISOR: R. FRAZIER



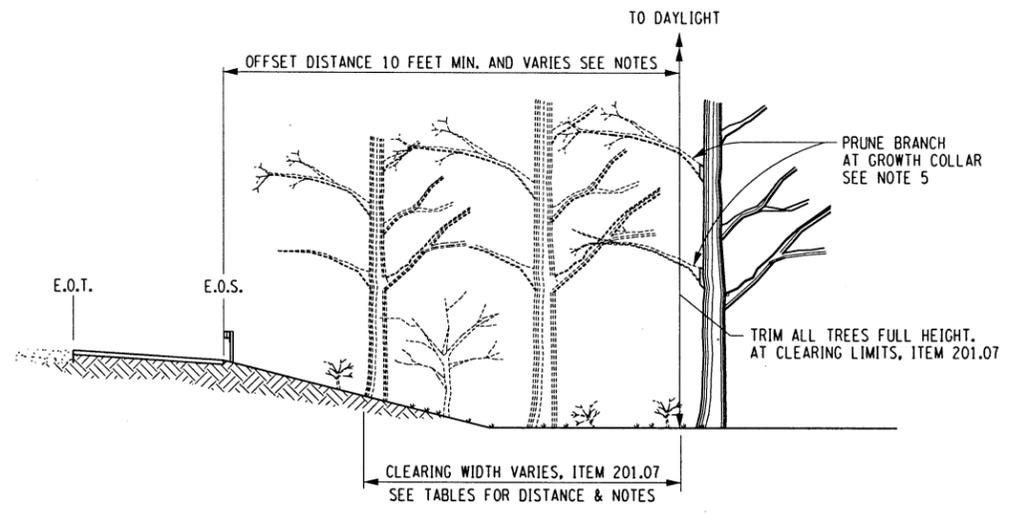
ROPE DIAMETER	WIRE ROPE CLIP SIZE	WIRE ROPE CLIP QUANTITY		A IN	B IN	C IN	TORQUE REQUIRED FT-LBS
		(AA)	(BB)				
3/8"	3/8"	2	4	5"	2"	3"	40
5/8"	5/8"	4	8	9"	4"	6"	127
3/4"	3/4"	5	10	11"	5"	6"	173

- NOTES:**
- 9 GAUGE GALVANIZED CHAIN LINK FENCE BY 12' HIGH TO BE CONNECTED TO WIRE ROPE SAFETY NET WITH 3/4" SHACKLES.
 - SEE SHEET TRCB-2 FOR DETAIL "A"
 - IF THE SLOPE OF THE ADJACENT TRAVEL LANE WILL CAUSE STORM WATER RUNOFF TO BE DIRECTED TOWARDS THE TEMPORARY ROCK CATCHMENT BARRIER, THE WEEP HOLE DRAINS SHALL BE INCLUDED TO ALLOW WATER TO DRAIN THROUGH THE SAND CUSHION.
 - ALL DIMENSIONS ARE SHOWN IN INCHES UNLESS OTHERWISE NOTED.



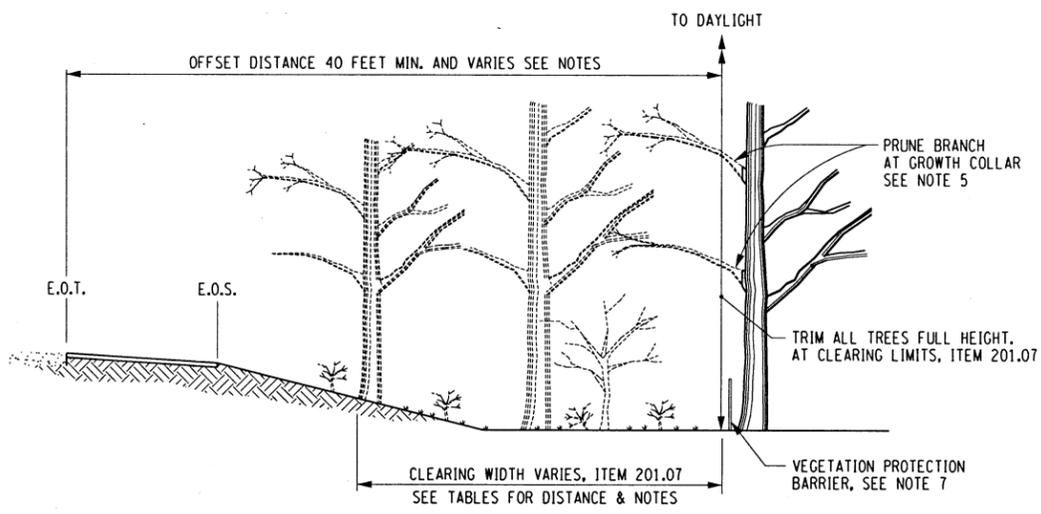
REVISIONS				 Thruway Authority Canal Corporation	TITLE OF PROJECT	CONTRACT NUMBER:
DATE	DESCRIPTION	BY	SYM.		ROCK REMEDIATION	TAA 16-41
				LOCATION OF PROJECT MP 115.0 TO MP 116.1 GREENE COUNTY <td>DATE: 9/30/16</td>	DATE: 9/30/16	
				TITLE OF DRAWING TEMPORARY ROCK CATCHMENT BARRIER ITEM 619.1725--25 <td>DRAWING NUMBER: TRCB-3</td>	DRAWING NUMBER: TRCB-3	

DESIGN SUPERVISOR: TA
DESIGNED BY: TA
CHECKED BY: TA
DRAFTED BY: KK
CHECKED BY: TA



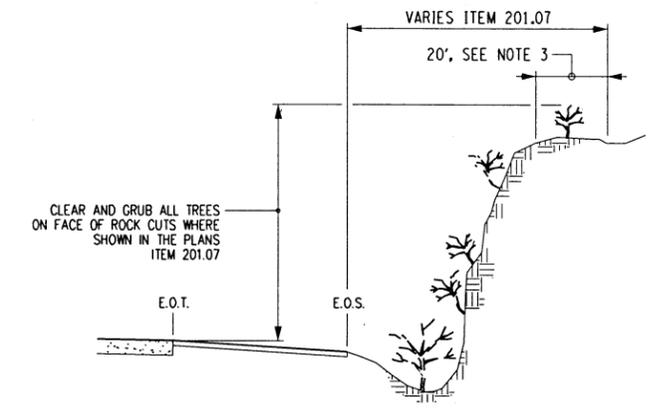
CLEARING AND GRUBBING BEHIND GUIDE RAIL
CLEARING AND GRUBBING-ITEM 201.07

DETAIL A
N.T.S.
SEE NOTE 1



CLEARING DETAIL - EARTH SLOPE
CLEARING AND GRUBBING-ITEM 201.07

DETAIL B
N.T.S.



CLEARING AND GRUBBING ON ROCK SLOPES

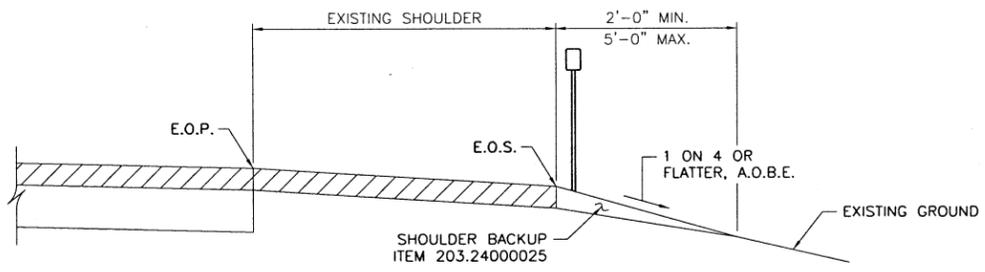
DETAIL C
N.T.S.
SEE NOTE 3 AND 4

CLEARING & GRUBBING TABLE				
LOCATION NUMBER	APPROX. LOCATION	DRAWING NUMBER	201.07 CLEARING AND GRUBBING ACRE	COMMENTS
C1A	STA 490+25 TO 493+25 MEDIAN	P-1	0.735	CLEARING ONLY PRIOR TO ROCK REMOVAL
C1	STA 494+46 TO 497+10 NB MEDIAN	P-2	0.167	CLEAR AND GRUB PRIOR TO ROCK SCALING
C2	STA 502+34 TO 506+30 NB MEDIAN	P-4	0.228	CLEAR AND GRUB PRIOR TO ROCK SCALING
C3	STA 518+09 TO 519+67 NB MEDIAN	P-7	0.119	CLEAR AND GRUB PRIOR TO ROCK SCALING
C4	STA 520+71 TO 524+89 NB MEDIAN	P-7 TO P-8	0.238	CLEAR AND GRUB PRIOR TO ROCK SCALING
C5	STA 520+17 TO 517+53 SB MEDIAN	P-7	0.167	CLEAR AND GRUB PRIOR TO ROCK SCALING
C6	STA 506+84 TO 497+81 SB MEDIAN	P-2 TO P-5	0.461	CLEAR AND GRUB PRIOR TO ROCK SCALING
C7	STA 524+00 TO 543+00 MEDIAN	P-8 TO P-11	2.443	CLEARING ONLY PRIOR TO ROCK REMOVAL
TOTALS			4.558	

NOTES:

- DETAILS "A" AND "B" APPLY TO ALL ROADSIDE AREAS WITHIN THE WORK LIMITS. ADDITIONAL AREAS OF CLEARING AND GRUBBING MAY BE INDICATED ELSEWHERE IN THE CONTRACT DOCUMENTS.
- GRUBBING WILL BE REQUIRED BENEATH PROPOSED EMBANKMENT AREAS ONLY. WHERE TREES OR EXISTING STUMPS ARE CLEARED AND GRUBBING IS NOT REQUIRED, THE TREE TRUNK OR EXISTING STUMP SHALL BE FLUSH CUT. EXPOSED STUMPS NOT REQUIRED TO BE REMOVED, BUT WHICH ARE WITHIN 30 FEET OF THE EDGE OF THE PAVEMENT, SHALL BE CHIPPED OUT TO A DEPTH OF NOT LESS THAN 6 INCHES BELOW THE FINISHED GRADE AND HOLES BACKFILLED IF DIRECTED BY ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR BACKFILL OR EARTH COVER NECESSARY TO COMPLETE WORK.
- DETAIL "C", CLEAR & GRUB ALL TREES AND BRUSH ON FACE OF ROCK CUTS. CLEAR 20' OR TO R.O.W. BOUNDARY ON TOP OF ROCK CUTS. ALL STUMPS SHALL BE FLUSH CUT.
- IN ALL SITUATIONS, THE PAY LIMIT SHALL BE THE AREA ACTUALLY CLEARED.
- ALL BRANCHES TRIMMED WITHIN THE OFFSET DISTANCE SHALL BE PRUNED AS CLOSE TO THE TRUNK'S GROWTH COLLAR AS POSSIBLE.
- CONTRACTOR IS RESPONSIBLE FOR LIMITING DISTURBED AREAS DURING ALL CLEARING AND GRUBBING/TRIM CANOPY (TREE PRUNING) OPERATIONS. THE PROPOSED AREAS WERE NOT VALUATED AS DISTURBED AREAS AS PER THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL (SPDES) GENERAL PERMIT 0-08-001 FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES. ALL DISTURBED AREAS RESULTING FROM CLEARING AND GRUBBING CONSTRUCTION ACTIVITIES SHALL BE RESTORED AS DIRECTED BY THE ENGINEER. COST IS TO BE INCLUDED IN THE CLEARING AND GRUBBING ITEM.
- TREE REMOVAL SHALL BE COMPLETED BY EITHER CLEARING AND GRUBBING OR CLEARING, FLUSH CUTTING METHODS, AS INDICATED ON PLANS. WHOLESALE CLEARING AND GRUBBING OF TREES SHALL NOT BE ALLOWED IN STATE PROTECTED WETLANDS, AND SHOULD BE AVOIDED AND MINIMIZED IN FEDERALLY PROTECTED WETLANDS WHENEVER POSSIBLE. THE CONTRACTOR SHALL TAKE CARE NOT TO FURTHER IMPACT STATE AND FEDERAL WETLANDS BEYOND WHAT IS REASONABLY NECESSARY TO CONDUCT CLEARING AND GRUBBING AND SELECTIVE TREE REMOVAL ACTIVITIES. ALL WETLAND AREAS SHOWN ON PLANS ADJACENT TO AND OUTSIDE OF CLEARING AND GRUBBING ZONES AND SELECTIVE TREE LOCATIONS SHALL BE LEFT UNDISTURBED TO PREVENT FURTHER IMPACTS, UNLESS OTHERWISE ALLOWED BY A PROJECT SPECIFIC ARMY CORP OF ENGINEERS OR NYSDEC WETLAND PERMIT. ACTIVITIES NOT TO ENCRDACH ON ADJACENT WETLANDS INCLUDE, BUT NOT LIMITED TO, MOVEMENT OF VEHICLES, CONSTRUCTION STAGING, DISPOSAL OF WOOD CHIPPINGS, PLACEMENT OF EROSION CONTROL FEATURES, AND SPREADING OF SPOILED SOIL. VEGETATION PROTECTION BARRIER FENCING, MAY BE NECESSARY IF THE ADJACENT AREAS ARE DEEMED ENVIRONMENTALLY SENSITIVE, A.O.B.E.
- ALL PROVISIONS OF SECTION 201 - CLEARING AND GRUBBING, NOT MODIFIED BY THIS DRAWING, SHALL APPLY.

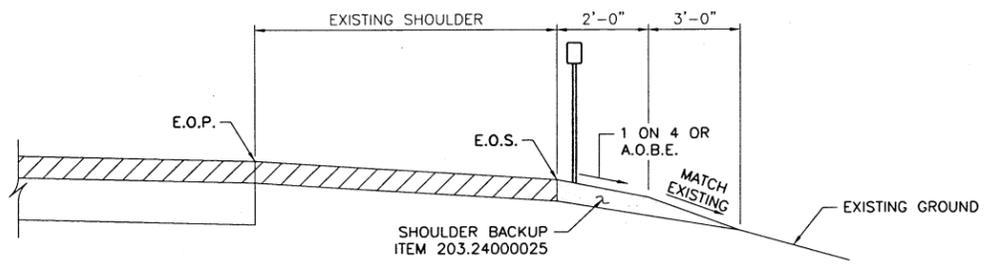
REVISIONS				Thruway Authority Canal Corporation	TITLE OF PROJECT	CONTRACT NUMBER:
DATE	DESCRIPTION	BY	SYM.		ROCK REMEDIATION	TAA 16-41
					LOCATION OF PROJECT MP 115.0 TO MP 116.1 GREENE COUNTY	DATE: 9/30/16
					TITLE OF DRAWING TREE REMOVAL CLEARING & GRUBBING TABLE	DRAWING NUMBER: CG-1



RIGHT SHOULDER BACKUP WITHOUT GUIDE RAIL AT SLOPES FLATTER THAN 1V:4H

N.T.S.

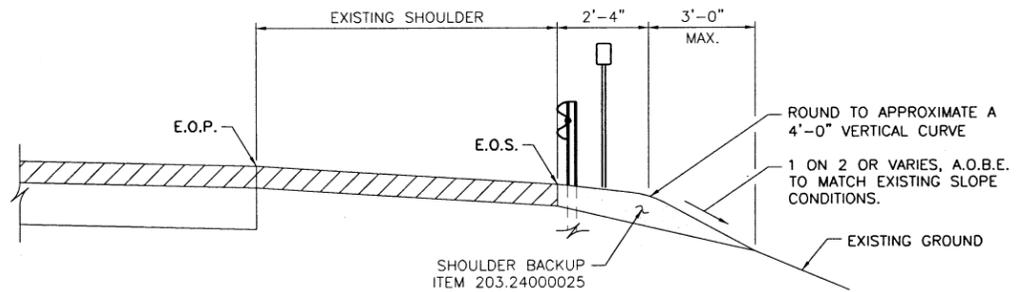
NOTE: RIGHT SHOULDER SHOWN, LEFT SHOULDER TREATMENT SIMILAR.



RIGHT SHOULDER BACKUP WITHOUT GUIDE RAIL AT SLOPES 1V:4H OR STEEPER

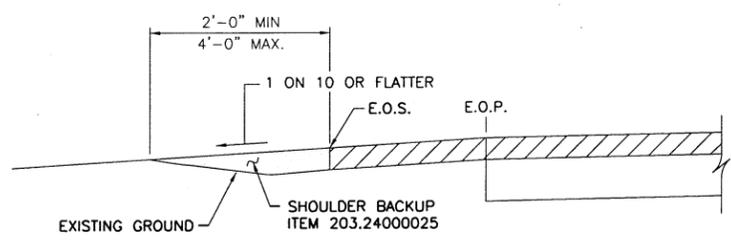
N.T.S.

NOTE: RIGHT SHOULDER SHOWN, LEFT SHOULDER TREATMENT SIMILAR.



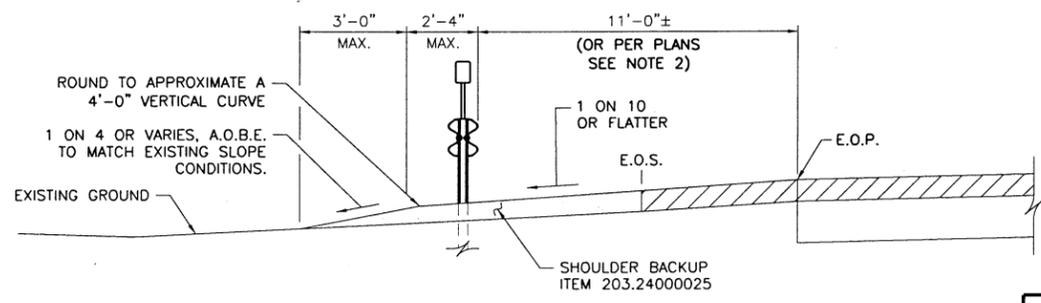
RIGHT SHOULDER BACKUP AT EXISTING AND PROPOSED GUIDE RAIL LOCATIONS

N.T.S.



LEFT SHOULDER BACKUP WHEN MEDIAN GUIDE RAIL IS LOCATED > 11' FROM EOP

N.T.S.



LEFT SHOULDER BACKUP AT EXISTING AND PROPOSED GUIDE RAIL LOCATIONS LOCATED AT 11' FROM EOP

N.T.S.

GENERAL NOTES:

1. SHOULDER BACKUP MATERIAL, ITEM 203.24000025, SHALL BE PLACED TO A RELATIVE CONSISTENT WIDTH AND SURFACE A.O.B.E.. THEREFORE, SHOULDER BACKUP MATERIAL SHALL BE PLACED AND COMPACTED UNDER AND BEHIND ALL EXISTING AND NEW GUIDE RAIL AND AT ALL TERMINALS PER NYSDOT STANDARD SHEETS 606-06 AND 606-11. SHOULDER BACKUP MATERIAL SHALL BE HAND WORKED AROUND ALL GUIDE RAIL POSTS.
2. SIMILAR DETAIL TO BE USED AT U-TURN DECELERATION LANE LOCATIONS WITH MEDIAN BARRIER (EXCEPT RAIL OFFSET WILL DIFFER PER PLAN).

PW\Standard Sheets\Current Thruway Highway Standard Sheets\Shoulder Backup\Shoulder Backup 1R.dwg
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 DESIGNED BY: TA
 DESIGN SUPERVISOR: TA

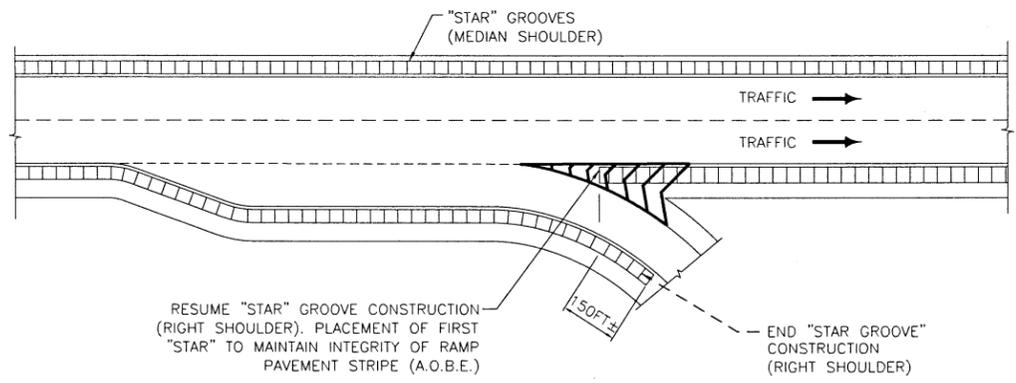
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DATE	DESCRIPTION	BY	SYM.



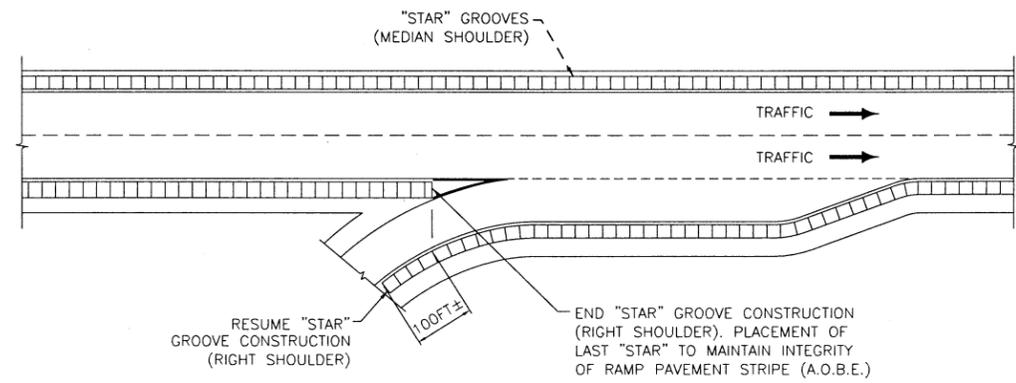
NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0 35/64 TO M.P. 116.1 35/64 GREENE COUNTY	DATE: 4/3/14
TITLE OF DRAWING SHOULDER BACKUP DETAILS (TYPICAL 1R PROJECTS)	DRAWING NUMBER: SB-1A

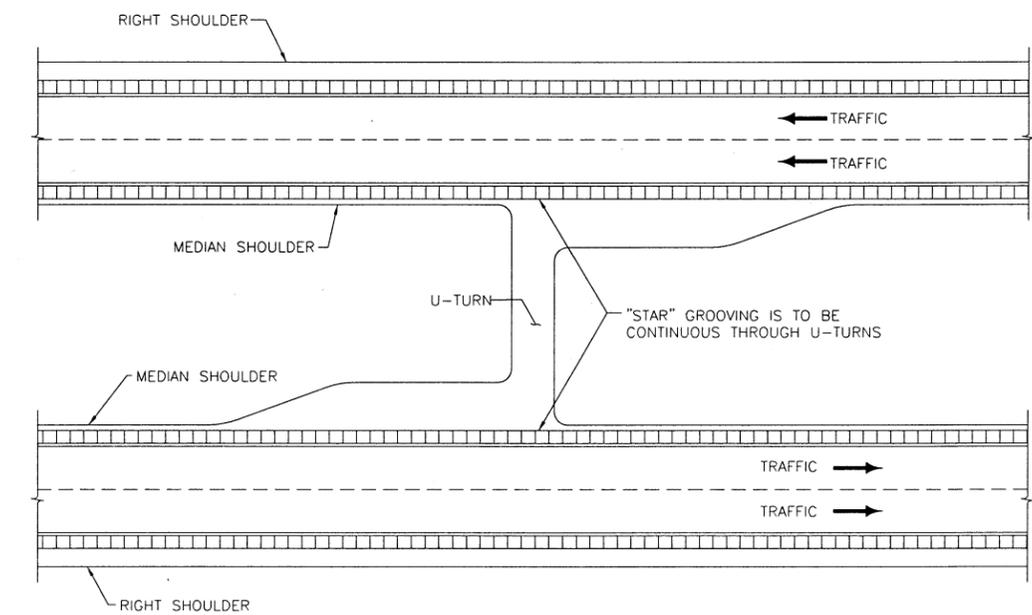
Star Groove Layout.dgn
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 DESIGN SUPERVISOR: TA



**"STAR" GROOVE CONSTRUCTION PLAN
DECELERATION LANE DETAIL D-1**
INTERCHANGES, SERVICE AREAS & PARKING AREAS
N.T.S.

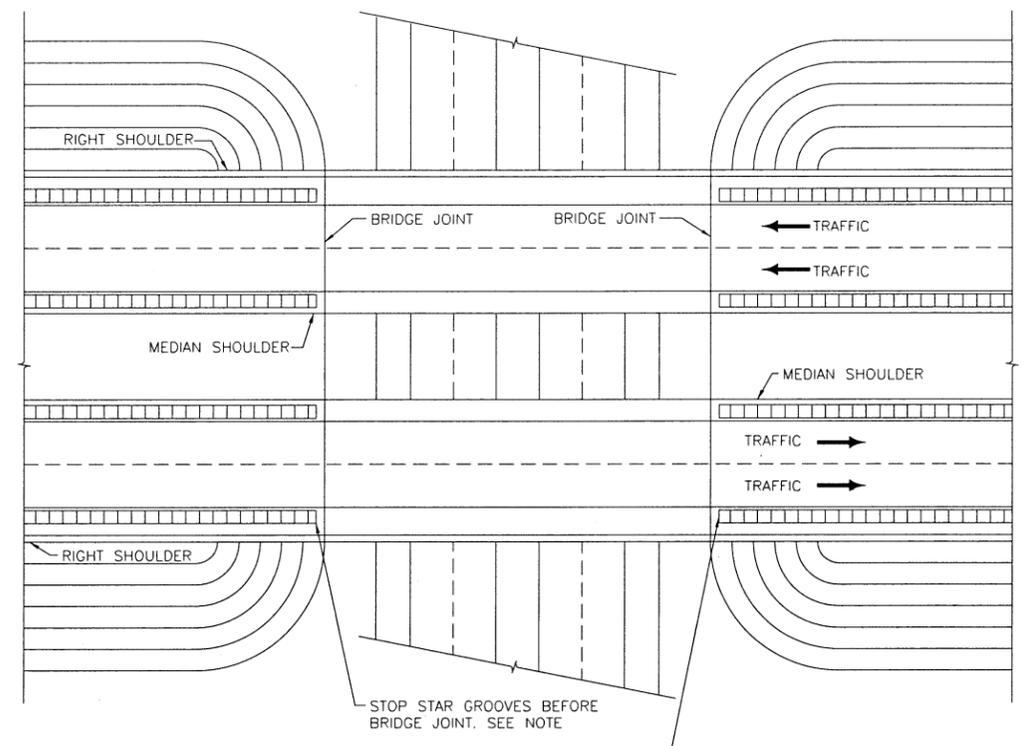


**"STAR" GROOVE CONSTRUCTION PLAN
ACCELERATION LANE DETAIL A-1**
INTERCHANGES, SERVICE AREAS & PARKING AREAS
N.T.S.



**"STAR" GROOVE CONSTRUCTION PLAN
U-TURN DETAIL**
N.T.S.

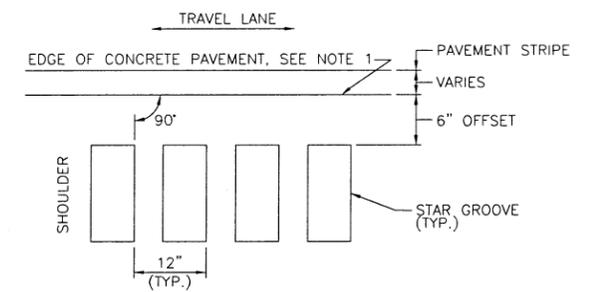
NOTE:
STAR GROOVES ARE NOT TO BE PLACED ON OR NEAR LONGITUDINAL CONSTRUCTION JOINTS. THE CONTRACTOR SHALL ADJUST PLACEMENT OF THE "STARS" SO THAT THE EDGE OF THE STAR GROOVES ARE NO CLOSER THAN 6 INCHES FROM ANY LONGITUDINAL JOINT.



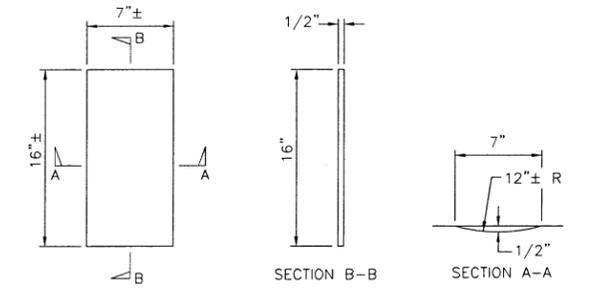
NOTE:
STAR GROOVE SHALL NOT BE PLACED CLOSER THAN 2FT TO ANY BRIDGE JOINT.

NOTE:
2 LANE PAVEMENT SHOWN-3 AND 4 LANE PAVEMENT AREAS ARE SIMILAR.

**"STAR" GROOVE CONSTRUCTION PLAN
BRIDGE DETAIL**
N.T.S.



STAR PATTERN
N.T.S.



PLAN & SECTION DETAILS OF STAR
N.T.S.

- NOTES:**
- STAR ALIGNMENT SHALL GENERALLY BE STRAIGHT AND OFFSET APPROX. 6" FROM THE ORIGINAL EDGE OF PAVEMENT FOR REHABILITATION PROJECTS AND 6" FROM THE NEW EDGE OF PAVEMENT FOR RECONSTRUCTION PROJECTS, UNLESS SHOWN OTHERWISE ON THE TYPICAL SECTION. THE EDGE OF CONCRETE PAVEMENT WILL NOT BE VISIBLE ON COMPOSITE PAVEMENTS.
 - THE 1/2" DEPTH SHALL GENERALLY APPLY FOR THE ENTIRE 16" LENGTH. SOME VARIATION TO SUIT SHOULDER SLOPE BREAKS MAY BE NECESSARY.

REVISIONS					NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	TITLE OF PROJECT		CONTRACT NUMBER:
DATE	DESCRIPTION	BY	SYM.			ROCK REMEDIATION M.P. 115.0 TO M.P. 116.1 GREENE COUNTY	ROCK REMEDIATION M.P. 115.0 TO M.P. 116.1 GREENE COUNTY	TAA 16-41
TITLE OF DRAWING						"STAR" GROOVE INSTALLATION DETAILS		DATE: 12/13
								DRAWING NUMBER: SG-1

T. MAHAR
 DESIGN SUPERVISOR
 R. COURNOYER
 DESIGNED BY
 J. SHINSKI
 CHECKED BY
 CAD
 DRAFTED BY
 T. MAHAR
 CHECKED BY
 TA
 T. MAHAR
 DESIGN SUPERVISOR

TABLE NY1-A BARRIER VEHICLE USE REQUIREMENTS (LONG TERM, INTERMEDIATE TERM & SHORT TERM STATIONARY CLOSURES)					
CLOSURE TYPE	EXPOSURE CONDITION ¹	USE REQUIREMENTS ^{4,5}			
		FREEWAY	NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIMIT)		
			≥ 45 MPH	35-40 MPH	≤ 30 MPH
LANE CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED ³	REQUIRED ³	REQUIRED ³	OPTIONAL ²
	NON-TRAVERSABLE HAZARD (IE. EQUIPMENT, MATERIALS, EXCAVATION) ONLY NO WORKERS EXPOSED	REQUIRED ³	REQUIRED ³	OPTIONAL ²	OPTIONAL ²
SHOULDER CLOSURE	WORKERS ON FOOT OR IN VEHICLES EXPOSED TO TRAFFIC	REQUIRED ³	REQUIRED ³	OPTIONAL ²	OPTIONAL ²
	NON-TRAVERSABLE HAZARD (IE. EQUIPMENT, MATERIALS, EXCAVATION) ONLY NO WORKERS EXPOSED	REQUIRED ³	OPTIONAL ²	OPTIONAL ²	OPTIONAL ²

1. THE EXPOSURE CONDITIONS DESCRIBED IN TABLE NY1-A ASSUMES THERE IS NO POSITIVE PROTECTION (TEMPORARY TRAFFIC BARRIER) PRESENT. WHERE WORKERS OR HAZARDS ARE PROTECTED BY A TEMPORARY TRAFFIC BARRIER, BARRIER VEHICLES ARE NOT REQUIRED.
2. WHERE THE REQUIREMENT IS "OPTIONAL", EITHER A BARRIER VEHICLE OR THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.
3. REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE BARRIER VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED SHOULDER 8 FEET OR GREATER IN WIDTH. IF THE WORK SPACE MOVES WITHIN THE STATIONARY CLOSURE, THE BARRIER VEHICLE SHALL BE REPOSITIONED ACCORDINGLY. BARRIER VEHICLES PROTECTING NON-TRAVERSABLE HAZARDS SHALL REMAIN IN PLACE DURING BOTH WORKING AND NON-WORKING HOURS UNTIL THE HAZARD NO LONGER EXISTS. EXCEPTIONS TO THESE REQUIREMENTS MAY BE MADE, AS APPROVED BY THE ENGINEER, WHERE BARRIER VEHICLE PLACEMENT WOULD BE INEFFECTIVE OR WOULD INTERFERE WITH THE SAFE OPERATION OF TRAFFIC.
4. BARRIER VEHICLES ARE NOT REQUIRED FOR MILLING AND/OR PAVING OPERATIONS, BUT THE STANDARD LONGITUDINAL BUFFER SPACE (TABLE 6C-2) SHALL BE PROVIDED.
5. BARRIER VEHICLES ARE NOT REQUIRED FOR FLAGGING OPERATIONS.

TABLE NY1-B SHADOW VEHICLE USE REQUIREMENTS (MOBILE CLOSURES ¹)					
CLOSURE TYPE	EXPOSURE CONDITION	USE REQUIREMENTS			
		FREEWAY	NON-FREEWAY (PRECONSTRUCTION POSTED SPEED LIMIT)		
			≥ 45 MPH	35-40 MPH	≤ 30 MPH
LANE CLOSURE	WHEN ANY WORKERS, VEHICLES, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED ^{2,4}	REQUIRED ^{2,4}	REQUIRED ^{2,4}	REQUIRED ^{3,4}
	WHEN ANY WORKERS, VEHICLES, OR OTHER HAZARD IS EXPOSED TO TRAFFIC	REQUIRED ^{2,4}	REQUIRED ^{2,4}	REQUIRED ^{3,4}	REQUIRED ^{3,4}

1. A MOBILE CLOSURE SHALL BE USED FOR ANY WORK ACTIVITY THAT MOVES CONTINUOUSLY OR INTERMITTENTLY ALONG THE TRAVELED WAY OR SHOULDER SLOWER THAN THE PREVAILING SPEED OF TRAFFIC. CHANNELIZING DEVICES ARE NOT USED FOR MOBILE CLOSURES.
2. SHADOW VEHICLES SHALL BE EQUIPPED WITH AN APPROVED REAR MOUNTED ATTENUATOR (TRUCK-MOUNTED OR TRAILER MOUNTED) FOR THE FOLLOWING MOBILE CLOSURES: LANE CLOSURES ON FREEWAYS, LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 35 MPH OR MORE, SHOULDER CLOSURES ON FREEWAYS, AND SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE.
3. FOR MOBILE LANE CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION POSTED SPEED LIMIT OF 30 MPH OR LESS AND MOBILE SHOULDER CLOSURES ON NON-FREEWAY ROADWAYS HAVING A PRE-CONSTRUCTION SPEED LIMIT OF 40 MPH OR LESS, SHADOW VEHICLES ARE NOT REQUIRED TO BE EQUIPPED WITH A REAR MOUNTED ATTENUATOR.
4. A SHADOW VEHICLE IS USED TO PROTECT EXPOSED WORKERS (ON FOOT OR IN A VEHICLE) AND SHALL BE REQUIRED FOR ALL MOBILE CLOSURES. SHADOW VEHICLE REQUIREMENTS SHALL INCLUDE PROVIDING A SEPARATE SHADOW VEHICLE FOR EACH CLOSED LANE AND EACH CLOSED SHOULDER 8 FEET OR GREATER IN WIDTH. ADDITIONAL SHADOW VEHICLES MAY BE REQUIRED TO PROMOTE THE SAFE OPERATION OF TRAFFIC AND THE INCREASED PROTECTION OF EXPOSED WORKERS, AS DIRECTED BY THE ENGINEER.

TABLE NY2-A PLACEMENT DISTANCE FOR BARRIER VEHICLES				
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (FT)			
	BARRIER VEHICLES			
	18000 LBS.		24000 LBS.	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
> 55	100 FT	200 FT	100 FT	200 FT
45 - 55	100 FT	200 FT	80 FT	160 FT
< 45	80 FT	160 FT	50 FT	100 FT

AS DEFINED IN NYS DOT STANDARD SPECIFICATION 619:
BARRIER VEHICLE: VEHICLE USED FOR STATIONARY SHOULDER CLOSURES, LANE CLOSURES AND OTHER STATIONARY WORK ZONES.
 MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TABLE NY2-B PLACEMENT DISTANCE FOR SHADOW VEHICLES				
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	PLACEMENT DISTANCE (FT)			
	SHADOW VEHICLES			
	18000 LBS.		24000 LBS.	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
> 55	230 FT	325 FT	180 FT	280 FT
45 - 55	180 FT	280 FT	150 FT	250 FT
< 45	100 FT	200 FT	100 FT	200 FT

AS DEFINED IN NYS DOT STANDARD SPECIFICATION 619:
SHADOW VEHICLE: VEHICLE USED FOR MOBILE OR SHORT DURATION WORK OPERATIONS.
 MINIMUM DISTANCE SHOWN REFLECTS THE ACTUAL ROLL AHEAD DISTANCE FROM MANUFACTURER.

TABLE NY6H-3 ADVANCE WARNING SIGN SPACING					
ROAD TYPE	DISTANCE BETWEEN SIGNS			SIGN LEGEND	
	A (FT)	B (FT)	C (FT)	XX	YY
URBAN (130 MPH*)	100	100	100	AHEAD	AHEAD
URBAN (35-40 MPH*)	200	200	200	AHEAD	AHEAD
URBAN (w/45 MPH*)	350	350	350	1000 FT	AHEAD
RURAL	500	500	500	1500 FT	1000 FT
EXPRESSWAY/FREEWAY	1,000	1,500	2,640	1 MILE	1/2 MILE

* PRECONSTRUCTION POSTED SPEED LIMIT

URBAN: ANY AREA EXHIBITING AT LEAST TWO OF THE FOLLOWING CHARACTERISTICS: SIDEWALKS, BICYCLE USAGE, CURBING, CLOSED DRAINAGE SYSTEMS, DRIVEWAY DENSITIES GREATER THAN 24 DRIVEWAYS PER MILE, MINOR COMMERCIAL DRIVEWAY DENSITIES OF 10 DRIVEWAYS PER MILE OR GREATER, MAJOR COMMERCIAL DRIVEWAYS, NUMEROUS RIGHT-OF-WAY CONSTRAINTS, HIGH DENSITY OF CROSS STREETS, OPERATING SPEEDS OF 45 MPH OR LESS.

RURAL: ANY AREA EXHIBITING NO MORE THAN ONE OF ABOVE CHARACTERISTICS.

EXPRESSWAY: DIVIDED HIGHWAYS FOR THROUGH TRAFFIC WITH FULL OR PARTIAL CONTROL OF ACCESS AND GENERALLY WITH GRADE SEPARATIONS AT MAJOR CROSSROADS.

FREEWAY/INTERSTATE: LOCAL OR INTERREGIONAL HIGH-SPEED, DIVIDED, HIGH-VOLUME FACILITIES WITH FULL OR PARTIAL CONTROL OF ACCESS.

THRUWAY WORK DURATION DEFINITIONS
LONG-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN 3 CONSECUTIVE DAYS.
INTERMEDIATE-TERM STATIONARY IS WORK THAT OCCUPIES A LOCATION MORE THAN ONE DAYLIGHT PERIOD UP TO 3 CONSECUTIVE DAYS, OR NIGHTTIME WORK LASTING MORE THAN 1 HOUR.
SHORT-TERM STATIONARY IS DAYTIME WORK THAT OCCUPIES A LOCATION WITHIN A SINGLE DAYLIGHT PERIOD.
SHORT DURATION IS DAYTIME WORK THAT OCCUPIES A LOCATION UP TO 2 HOURS, OR NIGHTTIME WORK LASTING UP TO 1 HOUR.
MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

TABLE 619-4 FLARE RATES FOR POSITIVE BARRIER					
TYPE OF POSITIVE BARRIER	PRECONSTRUCTION POSTED SPEED LIMIT				
	30 MPH	40 MPH	50 MPH	55 MPH	65 MPH
TEMPORARY CONCRETE BARRIER	8:1	11:1	14:1	16:1	20:1
BOX BEAM OR HEAVY POST CORRUGATED BEAM	7:1	9:1	11:1	12:1	15:1

TABLE 6C-2 LONGITUDINAL BUFFER SPACE	
PRECONSTRUCTION POSTED SPEED LIMIT (MPH)	DISTANCE
25	155 FT
30	200 FT
35	250 FT
40	305 FT
45	360 FT
50	425 FT
55	495 FT
60	570 FT
65	645 FT

TABLE 6H-4 FORMULAS FOR DETERMINING TAPER LENGTHS		
SPEED LIMIT (S) (MPH)	TAPER LENGTH (L) (FEET)	
40 MPH OR LESS	$L = WS^2/60$	L = TAPER LENGTH (FEET) W = WIDTH OF OFFSET (FEET) S = PRE-CONSTRUCTION POSTED SPEED LIMIT (MPH)
45 MPH OR MORE	$L = WS$	

STANDARD TAPER LENGTHS										
LATERAL SHIFT OF TRAFFIC FLOW PATH	WORK ZONE PRE-CONSTRUCTION POSTED SPEED LIMIT									
	25 MPH	30 MPH	35 MPH	40 MPH	45 MPH	50 MPH	55 MPH	60 MPH	65 MPH	
4 FT	40 FT	60 FT	80 FT	105 FT	180 FT	200 FT	220 FT	240 FT	260 FT	
5 FT	50 FT	75 FT	100 FT	135 FT	225 FT	250 FT	275 FT	300 FT	325 FT	
6 FT	65 FT	90 FT	125 FT	160 FT	270 FT	300 FT	330 FT	360 FT	390 FT	
7 FT	75 FT	105 FT	145 FT	185 FT	315 FT	350 FT	385 FT	420 FT	455 FT	
8 FT	85 FT	120 FT	165 FT	215 FT	360 FT	400 FT	440 FT	480 FT	520 FT	
9 FT	95 FT	135 FT	185 FT	240 FT	405 FT	450 FT	495 FT	540 FT	585 FT	
10 FT	105 FT	150 FT	205 FT	265 FT	450 FT	500 FT	550 FT	600 FT	650 FT	
11 FT	115 FT	165 FT	225 FT	295 FT	495 FT	550 FT	605 FT	660 FT	715 FT	
12 FT	125 FT	180 FT	245 FT	320 FT	540 FT	600 FT	660 FT	720 FT	780 FT	

WORK ZONE TRAFFIC CONTROL LEGEND	
SYMBOL	DESCRIPTION
	ARROW PANEL
	ARROW PANEL, CAUTION MODE
	ARROW PANEL SUPPORT OR TRAILER
	CHANGEABLE MESSAGE SIGN (PVMS)
	CHANNELIZING DEVICE
	CRASH CUSHION/TEMPORARY IMPACT ATTENUATOR
	DIRECTION OF TEMPORARY TRAFFIC DETOUR
	DIRECTION OF TRAFFIC
	FLAGGER
	FLAG TREE
	LUMINAIRE
	PAVEMENT MARKINGS THAT SHALL BE REMOVED FOR A LONG TERM PROJECT
	SIGN, TEMPORARY
	TEMPORARY BARRIER
	TEMPORARY BARRIER WITH WARNING LIGHTS
	TRAFFIC OR PEDESTRIAN SIGNAL
	TYPE III BARRICADE
	WARNING LIGHTS
	WORK SPACE
	WORK VEHICLE
	WORK VEHICLE W/ TRUCK MOUNTED ATTENUATOR
	TEMP/INTERIM PAVEMENT MARKING

TABLE 6C-3 TAPER LENGTH CRITERIA FOR WORK ZONES	
TYPE OF TAPER	TAPER LENGTH (L)
MERGING TAPER	L
SHIFTING TAPER	L/2
SHOULDER TAPER	L/3
ONE-LANE, TWO-WAY TRAFFIC TAPER	100 FT MAXIMUM
DOWNSTREAM TAPER	100 FT PER LANE

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

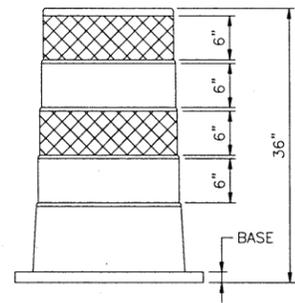


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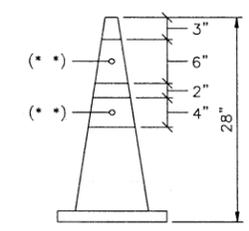
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 LOCATION OF PROJECT: GREENE COUNTY
 MP 115.0 TO MP 116.1
 TITLE OF DRAWING: WORK ZONE TRAFFIC CONTROL TABLES AND LEGEND

CONTRACT NUMBER: TAA 16-41
 DATE: 03/16
 DRAWING NUMBER: TL

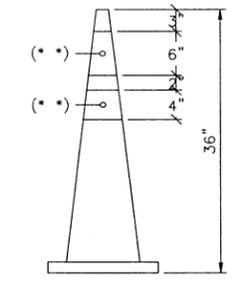
DESIGN SUPERVISOR: T. MAHAR
 DESIGNED BY: R. COURNOYER
 CHECKED BY: J. SHINSKI
 DRAFTED BY: CAD
 CHECKED BY: TA
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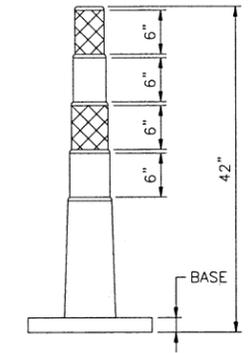
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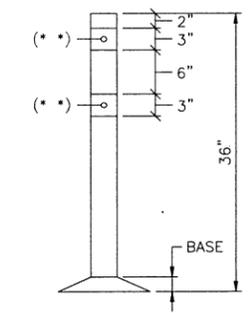
STANDARD CONE



TALL CONE



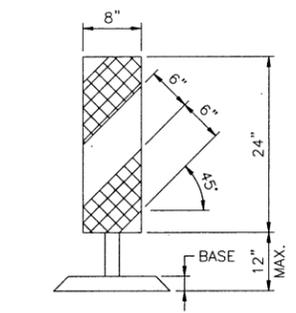
EXTRA TALL CONE



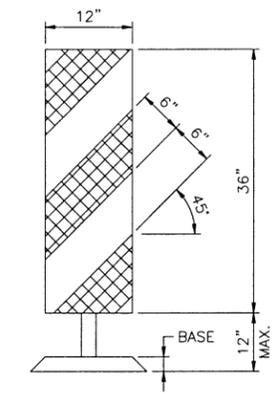
TUBULAR MARKER

CHANNELIZING DEVICES

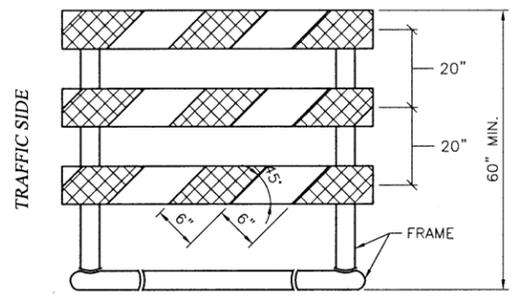
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STANDARD VERTICAL PANEL



OVERSIZED VERTICAL PANEL



TYPE III BARRICADE

GENERAL NOTES:

1. THE ENGINEER SHALL APPROVE THE CONDITION OF ALL TEMPORARY TRAFFIC CONTROL DEVICES PRIOR TO USE. THE ENGINEER SHALL ALSO REVIEW THE PROPOSED WORK ZONE TRAFFIC CONTROL PLAN FOR PRECISE DEVICE POSITIONING PRIOR TO INSTALLATION.
2. ALL SIGNS SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). ORANGE SIGNS ON RIGID PANELS SHALL BE FLUORESCENT-ORANGE ASTM TYPE IX (CLASS E) RETROREFLECTIVE SHEETING. ALL OTHER COLORS OF CONSTRUCTION SIGN FACES ON RIGID PANELS SHALL BE ASTM TYPE III (CLASS B) REFLECTIVE SHEETING.
3. EXISTING SPEED LIMIT SIGNS WITHIN THE WORK ZONE SHALL BE COMPLETELY COVERED TO AVOID CONFLICT WITH THE WORK ZONE SPEED LIMIT SIGNS.
4. WHEN A SPEED DISPLAY TRAILER IS DEPLOYED, IT MAY BE USED AS A SUBSTITUTE FOR THE SECOND "WORK ZONE/SPEED LIMIT 45" SIGN (G20-50P/R2-1). THE UNIT SHALL BE PROVIDED IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. WHEN NOT IN OPERATION, THE SPEED DISPLAY TRAILER SHALL BE REMOVED FROM THE WORK ZONE.
5. CHANNELIZING DEVICES SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD AND SECTION 729 OF THE STANDARD SPECIFICATIONS WITH THE EXCEPTION THAT SHEETING REQUIREMENTS SHALL BE AS SPECIFIED ON THIS DRAWING. CHANNELIZING DEVICE TYPE AND SPACING REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 619 OF THE STANDARD SPECIFICATIONS.
6. ARROW PANELS SHALL CONFORM TO SECTION 729-15 OF THE STANDARD SPECIFICATIONS. THE ADVANCE WARNING ARROW DISPLAY SHALL BE A FULL FLASHING ARROW ONLY. CHEVRONS AND SEQUENTIAL ARROW DISPLAYS SHALL NOT BE PERMITTED. THE CAUTION MODE DISPLAY SHALL BE FOUR FLASHING CORNERS. FLASHING BAR DISPLAYS SHALL NOT BE PERMITTED.
7. THERE SHALL BE NO WORK ACTIVITY, EQUIPMENT, VEHICLES AND/OR MATERIALS LOCATED WITHIN THE BUFFER SPACE. THE SAME SHALL ALSO APPLY TO THE SPACE BETWEEN THE BARRIER VEHICLE(S) AND THE ACTIVE WORK AREA (BARRIER VEHICLE PLACEMENT DISTANCE).

CHANNELIZING DEVICE

LEGEND

□	WHITE RETROREFLECTORIZED SHEETING, ASTM TYPE IX (CLASS E)
▣	ORANGE RETROREFLECTORIZED SHEETING, ASTM TYPE IX (CLASS E)
□	NON-REFLECTORIZED ORANGE
(*)	WHITE REFLECTIVE SHEETING, ASTM TYPE III (CLASS B) OR ASTM TYPE V (CLASS C)

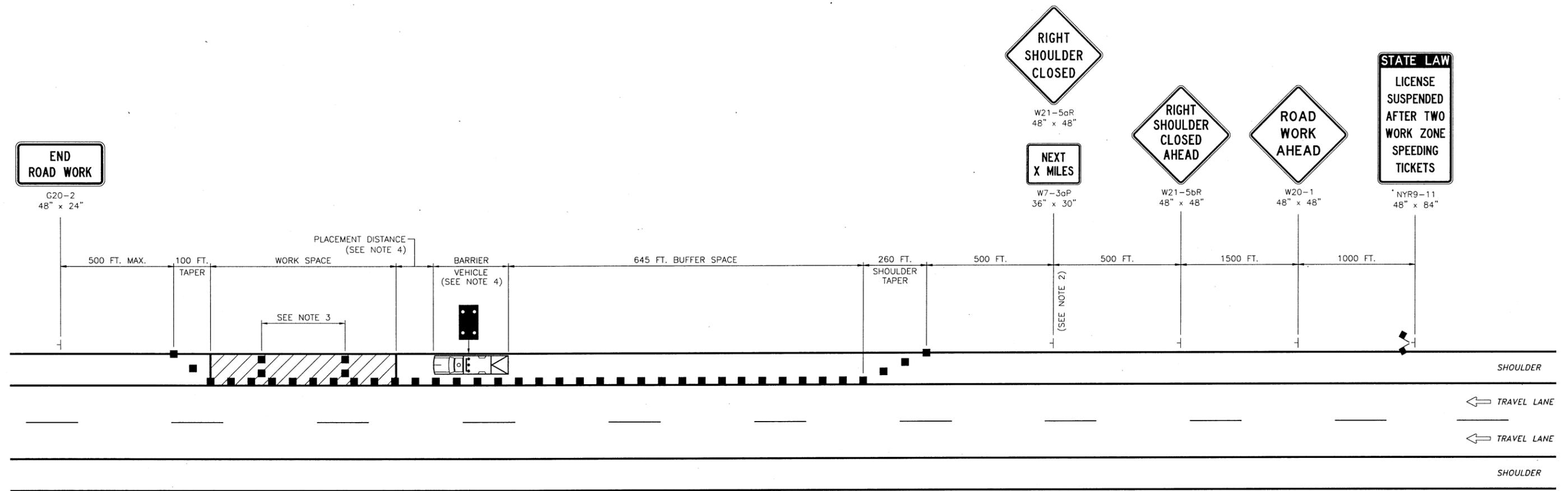
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



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TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT A.P. 115.0 35/64 TO M.P. 116.1 35/64 GREENE COUNTY	DATE: 02/13
TITLE OF DRAWING GENERAL WZTC NOTES AND CHANNELIZING DEVICES	DRAWING NUMBER: GWZN

SC.dgn
 CHECKED BY: TA
 DRAFTED BY: CAD
 CHECKED BY: J. SHINSKI
 DESIGNED BY: R. COURNOYER
 DESIGN SUPERVISOR: T. MAHAR



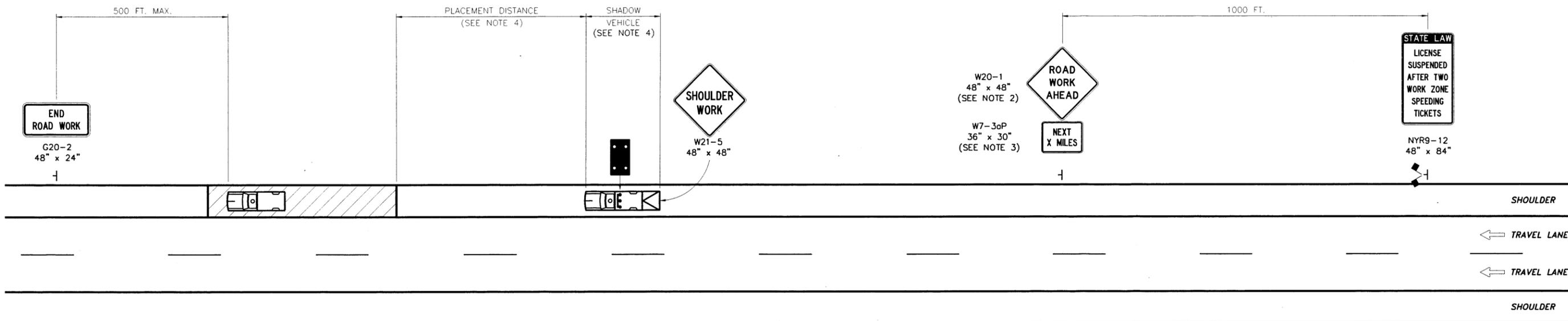
WORK ZONE TRAFFIC CONTROL PLAN
N.T.S.

NOTES:

1. THE PLAN SHOWN IS FOR A SHORT- OR INTERMEDIATE-TERM STATIONARY RIGHT SHOULDER CLOSURE. FOR A SHORT- OR INTERMEDIATE-TERM STATIONARY LEFT SHOULDER CLOSURE, SUBSTITUTE "LEFT SHOULDER CLOSED AHEAD" SIGN (W21-5bL) FOR THE "RIGHT SHOULDER CLOSED AHEAD" SIGN (W21-5bR) AND "LEFT SHOULDER CLOSED" SIGN (W21-5aL) FOR THE "RIGHT SHOULDER CLOSED" SIGN (W21-5aR). THE SHORT- OR INTERMEDIATE-TERM STATIONARY LEFT SHOULDER CLOSURE PLAN SHALL BE THE MIRROR IMAGE OF THE PLAN SHOWN.
2. THE "NEXT X MILES" SUPPLEMENTAL SIGN (W7-3aP) IS REQUIRED WHEN THE SHOULDER IS CLOSED FOR A DISTANCE GREATER THAN 2 MILES.
3. IN LONG WORK SPACES (1500 FEET AND GREATER) ON PAVED SHOULDERS HAVING A WIDTH OF 8 FEET OR GREATER, TWO DRUMS, TWO TALL CONES, OR TWO OVERSIZED VERTICAL PANELS SHALL BE PLACED TRANSVERSELY ACROSS THE CLOSED SHOULDER AT MAXIMUM INTERVALS OF 800 FEET. IN ADDITION, TWO DRUMS, TWO TALL CONES, OR TWO OVERSIZED VERTICAL PANELS SHALL BE SIMILARLY PLACED IN ADVANCE OF ANY TRANSVERSE DROP-OFF OF 1 1/2 INCHES OR GREATER.
4. THE BARRIER VEHICLE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 OF THE STANDARD SPECIFICATIONS. FOR BARRIER VEHICLE USE AND PLACEMENT REQUIREMENTS, SEE TABLES NY1-A AND NY2-A ON THE "WORK ZONE TRAFFIC CONTROL TABLES AND LEGEND" DRAWING. THE BARRIER VEHICLE SHALL BE LOCATED COMPLETELY ON THE SHOULDER.

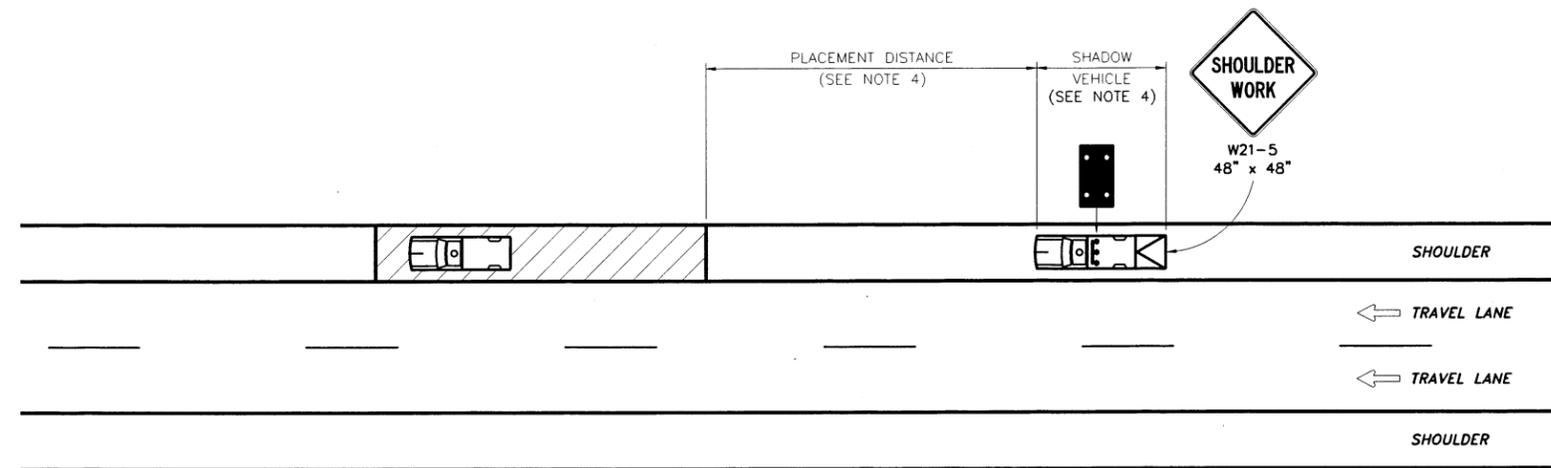
REVISIONS					NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209		TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
DATE	DESCRIPTION	BY	SYM.		LOCATION OF PROJECT GREENE COUNTY MP 115.0 TO MP 116.1	DATE: 03/16	DRAWING NUMBER: SC	

TITLE OF DRAWING
**SHOULDER CLOSURE
 (SHORT- OR INTERMEDIATE-
 TERM STATIONARY)**



**SHORT-DURATION STATIONARY OR MOBILE SHOULDER CLOSURE
(MULTIPLE WORK LOCATIONS)**

N.T.S.



MOBILE OPERATION ON SHOULDER

N.T.S.

NOTES:

1. THE PLANS SHOWN ARE FOR SHORT-DURATION STATIONARY WORK OR MOBILE OPERATIONS ON THE RIGHT SHOULDER. THE LEFT SHOULDER PLANS SHALL BE THE MIRROR IMAGE OF THOSE SHOWN.
2. IN SITUATIONS WHERE MULTIPLE WORK LOCATIONS WITHIN A LIMITED DISTANCE MAKE IT PRACTICAL TO PLACE STATIONARY SIGNS, THE DISTANCE BETWEEN THE ADVANCE WARNING SIGN AND THE WORK SHALL NOT EXCEED 5 MILES.
3. IN SITUATIONS WHERE THE DISTANCE BETWEEN THE ADVANCE WARNING SIGNS AND THE WORK IS 2 MILES TO 5 MILES, THE "NEXT X MILES" SUPPLEMENTAL SIGN (W7-3aP) SHALL BE USED WITH THE "ROAD WORK AHEAD" SIGN (W20-1).
4. THE SHADOW VEHICLE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 OF THE STANDARD SPECIFICATIONS. FOR SHADOW VEHICLE USE AND PLACEMENT REQUIREMENTS, SEE TABLES NY1-B AND NY2-B ON THE "WORK ZONE TRAFFIC CONTROL TABLES AND LEGEND" DRAWING. THE SHADOW VEHICLE SHALL BE LOCATED COMPLETELY ON THE SHOULDER.

REVISIONS			
DATE	DESCRIPTION	BY	SYM



NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
	LOCATION OF PROJECT GREENE COUNTY MP 115.0 TO MP 116.1	DATE: 02/13
	TITLE OF DRAWING SHOULDER CLOSURE (SHORT-DURATION STATIONARY AND MOBILE)	DRAWING NUMBER: SCM

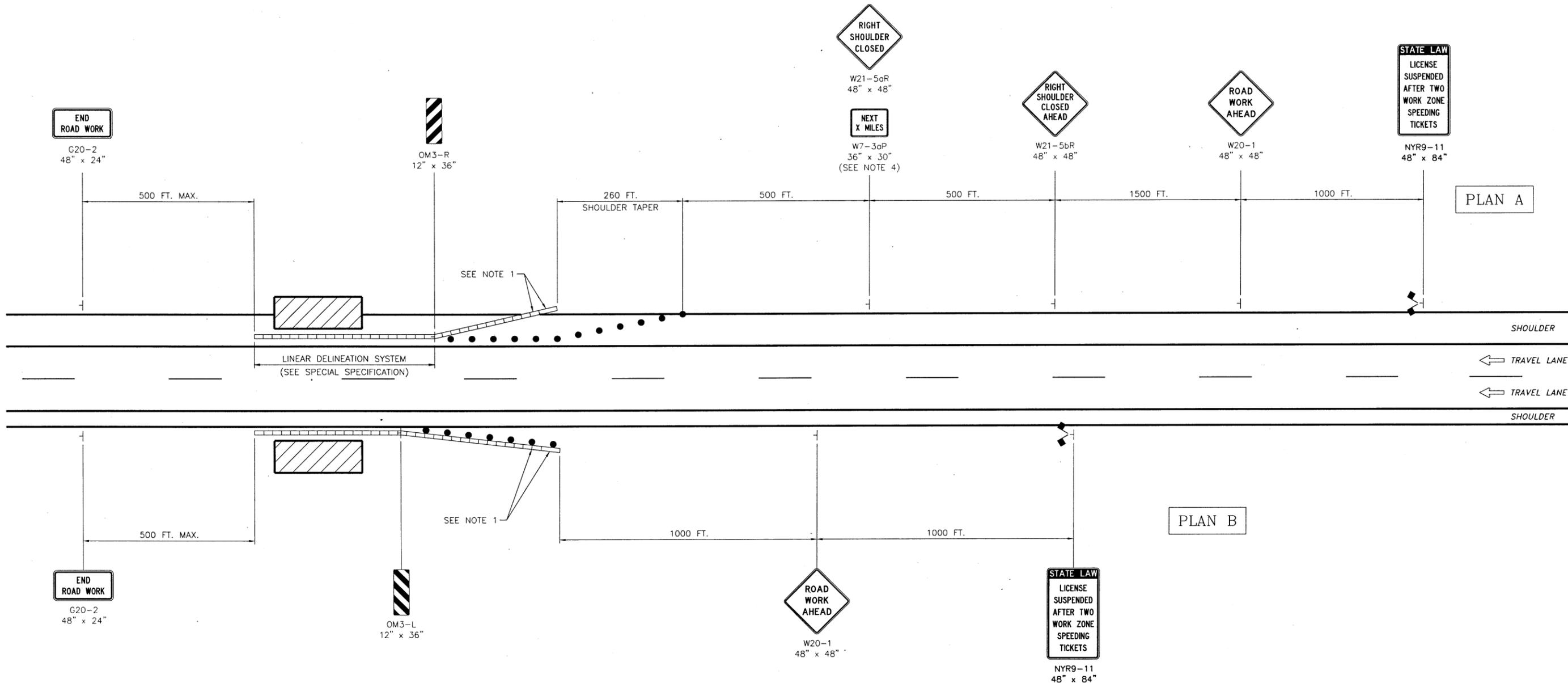
CHECKED BY: TA

DRAFTED BY: CAD

CHECKED BY: J. SHINSKI

DESIGNED BY: R. COURNOYER

DESIGN SUPERVISOR: T. MAHAR



WORK ZONE TRAFFIC CONTROL PLAN
N.T.S.

NOTES:

- FOR TEMPORARY CONCRETE BARRIER AND END TREATMENT DETAILS, REFER TO THE DESIGNED LAYOUT SHEET(S) IN THE CONTRACT PLANS.
- TWO DIFFERENT SIGNING AND DELINEATION PLANS ARE SHOWN:
PLAN A SHALL BE USED WHERE TEMPORARY CONCRETE BARRIER IS INSTALLED ON THE SHOULDER. FOR LEFT SHOULDER APPLICATIONS, SUBSTITUTE "LEFT SHOULDER CLOSED AHEAD" SIGN (W21-5bL) AND "LEFT SHOULDER CLOSED" SIGN (W21-5aL) FOR RIGHT SHOULDER CLOSED SIGNS (W21-5bR AND W21-5aR).
PLAN B SHALL BE USED WHERE TEMPORARY CONCRETE BARRIER IS INSTALLED OFF THE SHOULDER.
- SIGNING IS REQUIRED ONLY ON THE SIDE OF THE ROADWAY WHERE THE WORK SPACE IS LOCATED.
- THE "NEXT X MILES" SUPPLEMENTAL SIGN (W7-3aP) IS REQUIRED WHEN THE SHOULDER IS CLOSED FOR A DISTANCE GREATER THAN 2 MILES.

**CHANNELIZING DEVICE
LEGEND**

- WHITE RETROREFLECTORIZED SHEETING, ASTM TYPE IX (CLASS E)
- ORANGE RETROREFLECTORIZED SHEETING, ASTM TYPE IX (CLASS E)
- NON-REFLECTORIZED ORANGE
- DRUMS @ 40' SPACING

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



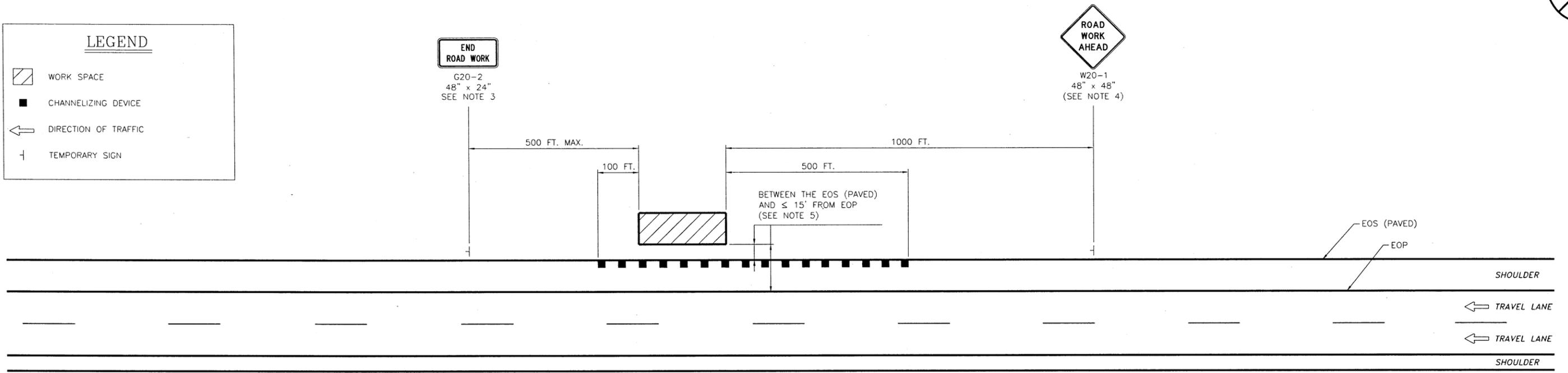
NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0 TO M.P. 116.1 GREENE COUNTY	DATE: 02/13
TITLE OF DRAWING SIGNING AND DELINEATION FOR SHOULDER WORK SPACES WITH TEMPORARY CONCRETE BARRIER	DRAWING NUMBER: SCSD

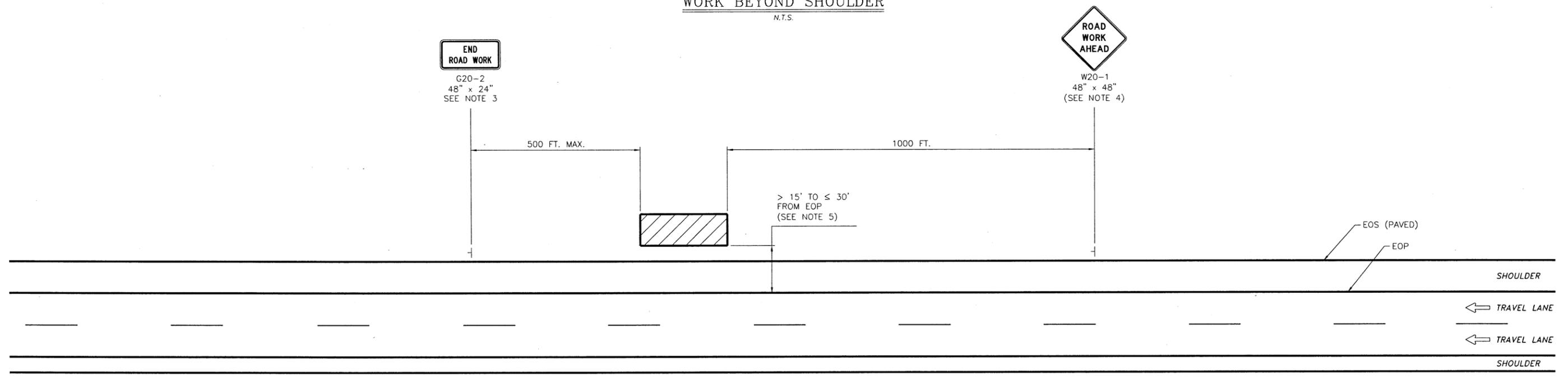
WBS.dgn
 CHECKED BY: TA
 DRAFTED BY: CAD
 CHECKED BY: J. SHINSKI
 DESIGNED BY: R. COURNOYER
 DESIGN SUPERVISOR: T. MAHAR

LEGEND

- WORK SPACE
- CHANNELIZING DEVICE
- DIRECTION OF TRAFFIC
- TEMPORARY SIGN



OPTION A
WORK BEYOND SHOULDER
N.T.S.



OPTION B
WORK BEYOND SHOULDER
N.T.S.

NOTES:

1. THE PLAN SHOWN IS FOR STATIONARY WORK BEING PERFORMED OFF THE ROADWAY (BEYOND THE SHOULDER, BUT WITHIN THE R.O.W.). NO TRAFFIC CONTROL IS REQUIRED WHERE THE WORK SPACE IS BEHIND A BARRIER OR CONFINED TO AN AREA MORE THAN 30' FROM THE EDGE OF TRAVEL WAY.
2. WHEN THE WORK SPACE IS IN THE MEDIAN AND AN ADVANCE "ROAD WORK AHEAD" SIGN IS REQUIRED, THE SIGN SHALL BE PLACED ON THE LEFT SIDE OF THE DIRECTIONAL ROADWAY.
3. THE "END ROAD WORK" SIGN IS OPTIONAL IF THE WORK DURATION IS TWO HOURS OR LESS.
4. A "SHOULDER WORK" W21-5 (48" x 48") MAY BE SUBSTITUTED FOR THE "ROAD WORK AHEAD" SIGN.
5. DURING NON-WORKING HOURS, ALL EQUIPMENT AND MATERIALS SHALL BE STORED AT LEAST THIRTY (30) FEET FROM THE EDGE OF PAVEMENT (BOTH MAINLINE AND RAMPS) OR BE PROTECTED BY A PHYSICAL BARRIER AS APPROVED BY THE ENGINEER.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
	LOCATION OF PROJECT M.P. 115.0 35/64 TO M.P. 116.1 35/64 GREENE COUNTY	DATE: 02/13
TITLE OF DRAWING WORK BEYOND SHOULDER		DRAWING NUMBER: WBS

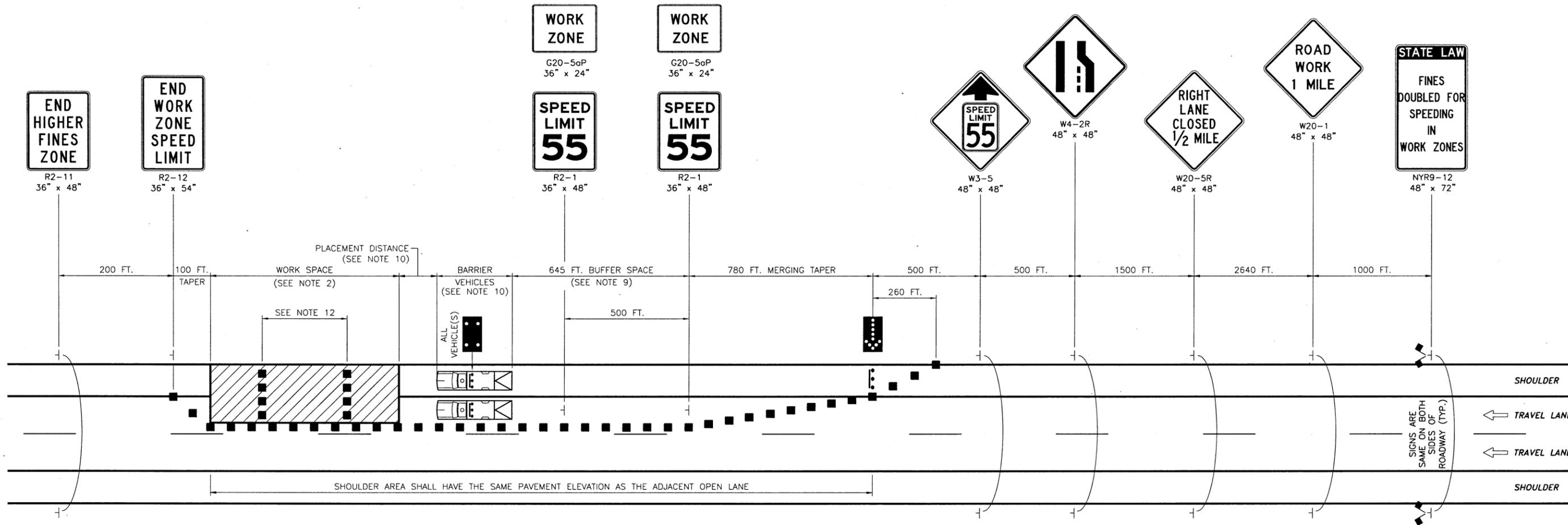
CHECKED BY: TA

DRAFTED BY: CAD

CHECKED BY: J. SHINSKI

DESIGNED BY: R. COURNOYER

DESIGN SUPERVISOR: T. MAHAR



WORK ZONE TRAFFIC CONTROL PLAN

N.T.S.

NOTES:

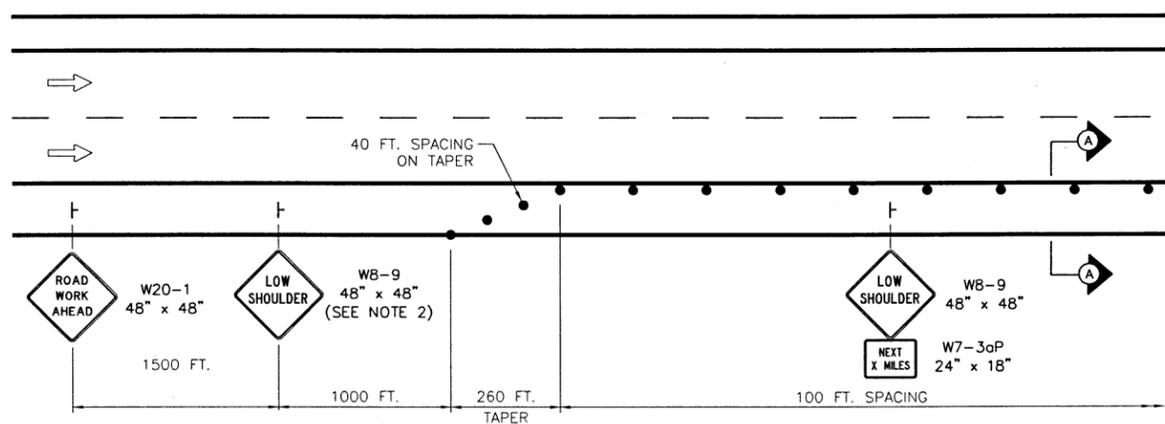
- THIS PLAN APPLIES TO TWO-, THREE-, FOUR-, AND FIVE-LANE SECTIONS.
- THE MAXIMUM LENGTH OF ANY CONTINUOUS WORK SPACE SHALL NOT EXCEED 3 MILES (2 MILES FOR MILLING AND PAVING OPERATIONS). ALL TRAFFIC SHALL BE RE-ESTABLISHED TO ITS NORMAL LANE CONFIGURATION FOR A MINIMUM 2 MILES PRIOR TO A SUCCESSIVE LANE CLOSURE. (THE SEPARATION BETWEEN SUCCESSIVE LANE CLOSURES IS MEASURED FROM THE LAST SIGN OF THE FIRST LANE CLOSURE TO THE BEGINNING OF THE MERGING TAPER OF THE SECOND LANE CLOSURE).
- THE PLAN SHOWN IS FOR A STATIONARY RIGHT LANE CLOSURE. FOR A STATIONARY LEFT LANE CLOSURE, SUBSTITUTE "LEFT LANE CLOSED 1/2 MILE" SIGN (W20-5L) FOR THE "RIGHT LANE CLOSED 1/2 MILE" SIGN (W20-5R) AND LEFT LANE ENDS SYMBOL SIGN (W4-2L) FOR THE RIGHT LANE ENDS SYMBOL SIGN (W4-2R). THE STATIONARY LEFT LANE CLOSURE PLAN SHALL BE THE MIRROR IMAGE OF THE PLAN SHOWN WITH THE EXCEPTION THAT THE "WORK ZONE/SPEED LIMIT 55" SIGNS (G20-5oP/R2-1) SHALL BE INSTALLED ON THE RIGHT SIDE OF THE ROADWAY.
- FOR A STATIONARY LANE CLOSURE IN AN AREA WHERE THE USABLE LEFT SHOULDER/MEDIAN WIDTH IS LESS THAN 6 FEET, LEFT SIDE SIGNS SHALL BE MOUNTED ON THE MEDIAN BARRIER. IF THE TOTAL MEDIAN WIDTH IS LESS THAN 6 FEET, LEFT SIDE SIGNS SHALL NOT BE REQUIRED.
- ON ROADWAY SECTIONS WHERE THE USABLE SHOULDER IS LESS THAN 8 FEET, A MOBILE LANE CLOSURE PLAN SHALL BE USED TO INSTALL AND REMOVE TEMPORARY TRAFFIC CONTROL DEVICES. THE SAME SHALL ALSO APPLY WHEN COVERING AND UNCOVERING PREVIOUSLY INSTALLED SIGNS.
- WHEN TRAFFIC IS REDUCED TO A SINGLE LANE, THE "WORK ZONE/SPEED LIMIT 55" SIGNS (G20-5oP/R2-1) SHALL BE INSTALLED ON THE RIGHT SIDE OF THE ROADWAY ONLY. IF MULTIPLE LANES ARE OPEN TO TRAFFIC, THE SIGNS SHALL BE INSTALLED ON BOTH SIDES OF THE ROADWAY.
- WHEN THE DISTANCE BETWEEN THE SECOND "WORK ZONE/SPEED LIMIT 55" SIGN (G20-5oP/R2-1) AND THE END OF THE WORK SPACE EXCEEDS 1/2 MILE, ADDITIONAL "WORK ZONE/SPEED LIMIT 55" SIGN(S) (G20-5oP/R2-1) SHALL BE INSTALLED ON THE RIGHT SIDE OF THE OPEN TRAVEL LANE, OR BOTH SIDES OF MULTIPLE OPEN TRAVEL LANES, TO MAINTAIN A MAXIMUM SPACING OF 1/2 MILE.
- IN ADDITION TO THE SIGNING SHOWN, "ROAD WORK AHEAD" (W20-1) AND "WORK ZONE/SPEED LIMIT 55" (G20-5oP/R2-1) SIGNS SHALL BE PLACED ALONG ANY ENTRANCE RAMP THAT TERMINATES WITHIN THE WORK ZONE TRAFFIC CONTROL LIMITS. THE LOCATION OF THESE SIGNS SHALL BE DETERMINED BY THE ENGINEER.
- THE LENGTH OF THE BUFFER SPACE SHALL BE EXTENDED, AS ORDERED BY THE ENGINEER, TO ENSURE ADEQUATE SIGHT DISTANCE FOR VEHICLES APPROACHING THE LANE CLOSURE TAPER. IN CASES WHERE RESTRICTIVE FEATURES ARE PRESENT, A REDUCTION IN THE BUFFER SPACE LENGTH MAY BE PERMITTED WITH THE APPROVAL OF THE ENGINEER.
- BARRIER VEHICLES SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 OF THE STANDARD SPECIFICATIONS. FOR BARRIER VEHICLE USE AND PLACEMENT REQUIREMENTS, SEE TABLES NY1-A AND NY2-A ON THE "WORK ZONE TRAFFIC CONTROL TABLES AND LEGEND" DRAWING.
- EXISTING PAVEMENT MARKINGS SHALL BE MAINTAINED BY THE CONTRACTOR WITHIN THE WORK ZONE TRAFFIC CONTROL LIMITS.
- IN LONG WORK SPACES (1500 FEET AND GREATER), TWO DRUMS, TWO TALL CONES, OR TWO OVERSIZED VERTICAL PANELS SHALL BE PLACED TRANSVERSELY ACROSS EACH CLOSED LANE (AND SHOULDER IF WIDTH IS 8 FEET OR GREATER) AT MAXIMUM INTERVALS OF 800 FEET. IN ADDITION, TWO DRUMS, TWO TALL CONES, OR TWO OVERSIZED VERTICAL PANELS SHALL BE SIMILARLY PLACED IN ADVANCE OF ANY TRANSVERSE DROP-OFF OF 1 1/2 INCHES OR GREATER.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.

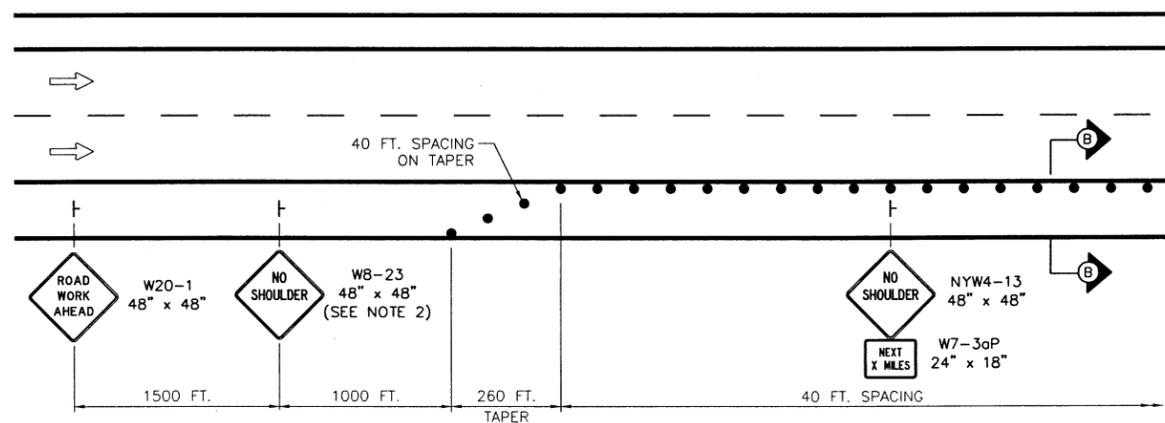


NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
	LOCATION OF PROJECT M.P. 115.0 TO M.P. 116.1 GREENE COUNTY	DATE: 02/13
TITLE OF DRAWING SINGLE LANE CLOSURE (SHORT- OR INTERMEDIATE-TERM STATIONARY)	DRAWING NUMBER: SLC-65	

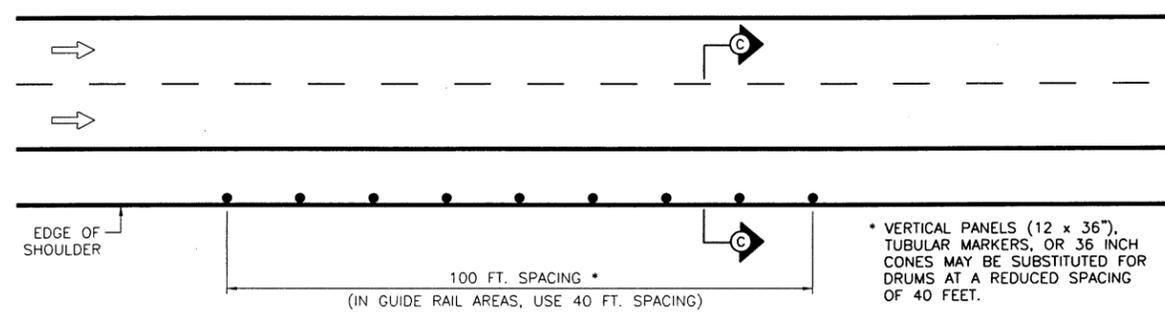
MO: JPM
 CHECKED BY: TA
 DRAFTED BY: CAD
 CHECKED BY: J. SHINSKI
 DESIGNED BY: R. COURNOYER
 DESIGN SUPERVISOR: T. MAHAR



**DROP-OFF AT EDGE OF TRAVELED WAY
DEPTH 2 INCHES TO 4 INCHES**
N.T.S.

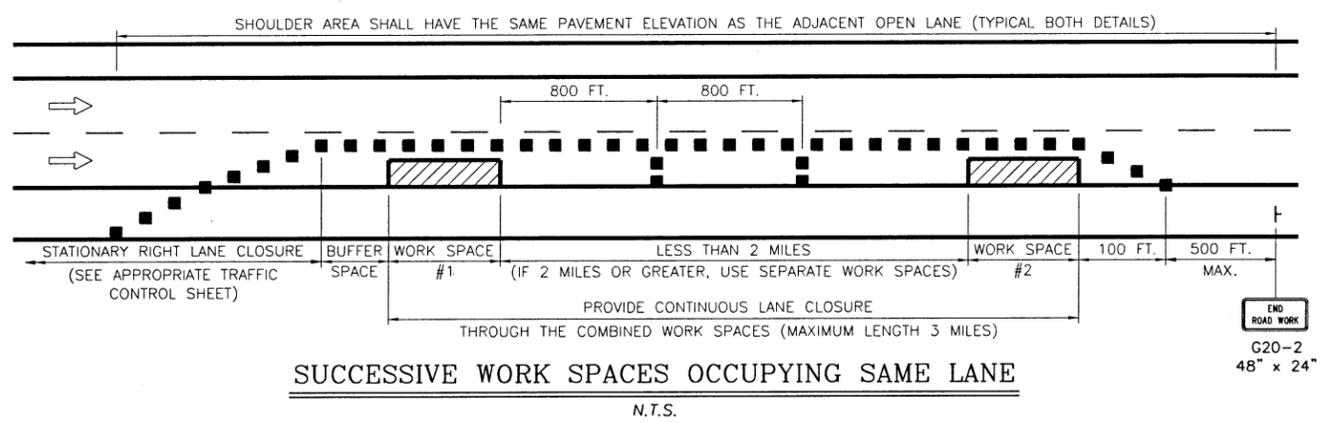


**DROP-OFF AT EDGE OF TRAVELED WAY
DEPTH GREATER THAN 4 INCHES, BUT LESS THAN OR EQUAL TO 18 INCHES**
N.T.S.

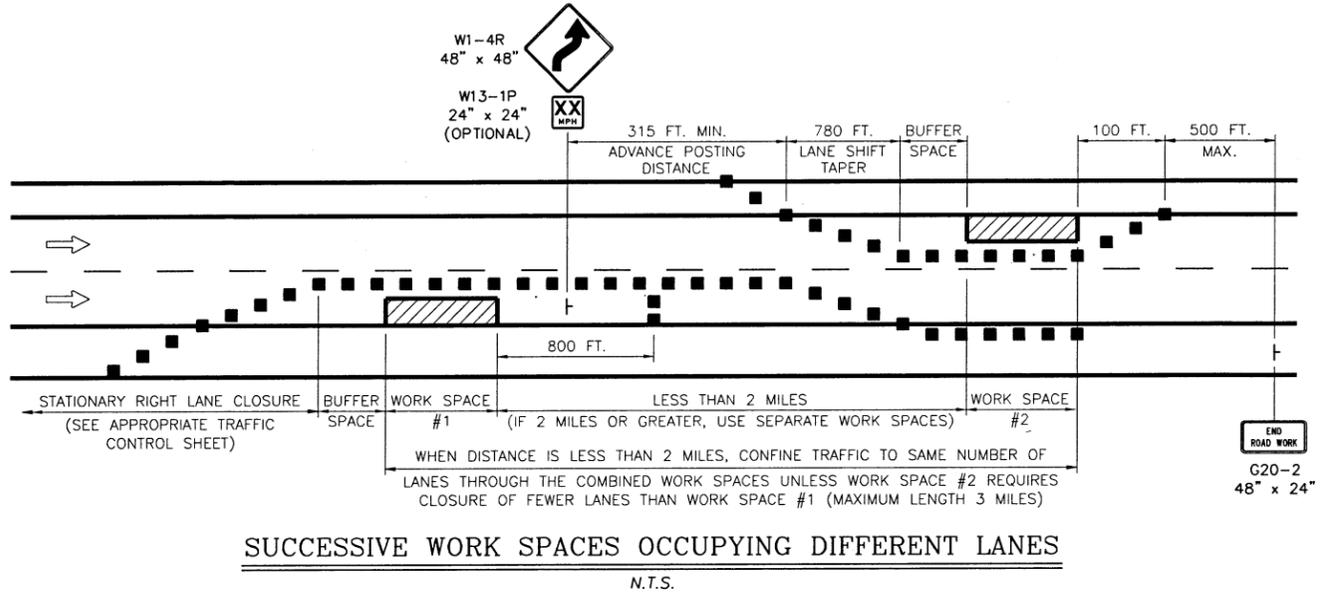


**DROP-OFF AT OUTSIDE EDGE OF SHOULDER
DEPTH GREATER THAN 4 INCHES, BUT LESS THAN OR EQUAL TO 18 INCHES
AND SHOULDER WIDTH 4 FEET OR GREATER**
N.T.S.

* VERTICAL PANELS (12 x 36"), TUBULAR MARKERS, OR 36 INCH CONES MAY BE SUBSTITUTED FOR DRUMS AT A REDUCED SPACING OF 40 FEET.



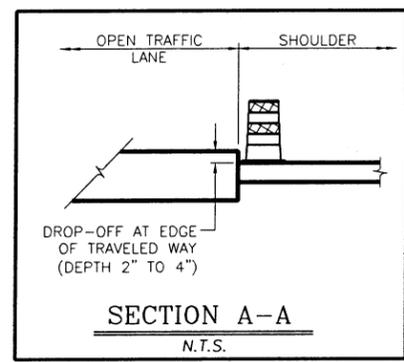
SUCCESSIVE WORK SPACES OCCUPYING SAME LANE
N.T.S.



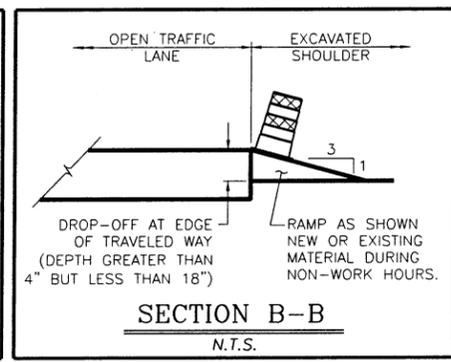
SUCCESSIVE WORK SPACES OCCUPYING DIFFERENT LANES
N.T.S.

DROP-OFF DELINEATION NOTES:

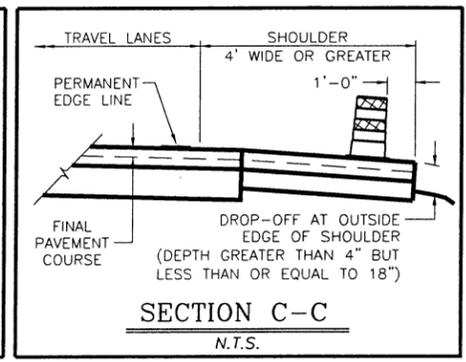
- SIGNING AND DELINEATION ARE SHOWN ALONG THE RIGHT SHOULDER. SIGNING AND DELINEATION FOR THE LEFT SHOULDER SHALL BE THE MIRROR IMAGE OF THE SAME DETAILS.
- THE "LOW SHOULDER" (W8-9) SIGN OR "NO SHOULDER" (W8-23) SIGN SHALL BE PLACED IN ADVANCE OF THE DRUM TAPER AS SHOWN. SIGNING SHALL BE REPEATED EVERY 1/2 MILE WITH "NEXT X MILES" (W7-3aP) SUPPLEMENTAL PLAQUES.
- VERTICAL PANELS (12 x 36 IN.) MAY BE SUBSTITUTED FOR DRUMS. DRUMS OR VERTICAL PANELS SHALL BE PLACED AND MAINTAINED SUCH THAT AT LEAST TWO-THIRDS OF THEIR HEIGHT IS EXPOSED ABOVE THE PAVEMENT.
- IF THE DEPTH OF EXCAVATION EXCEEDS 18 INCHES, THE ADJACENT LANE SHALL BE CLOSED OR TEMPORARY CONCRETE BARRIER SHALL BE USED TO PROTECT THE CONDITION.



SECTION A-A
N.T.S.



SECTION B-B
N.T.S.



SECTION C-C
N.T.S.

REVISIONS				NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	TITLE OF PROJECT ROCK REMEDIATION LOCATION OF PROJECT M.P. 115.0 TO M.P. 116.1 GREENE COUNTY	TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL FOR MISCELLANEOUS OPERATIONS	CONTRACT NUMBER: TAA 16-41
DATE	DESCRIPTION	BY	SYM.				DATE: 02/13
							DRAWING NUMBER: MO

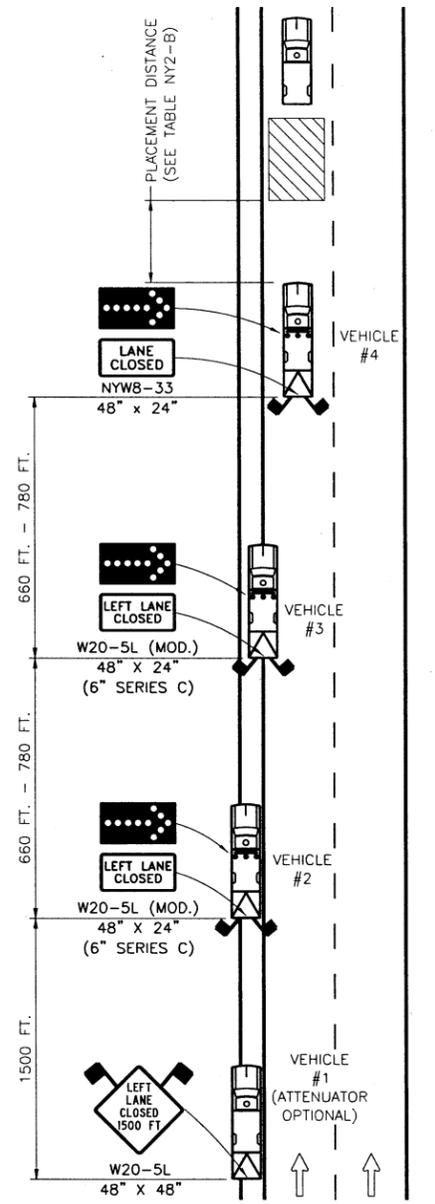
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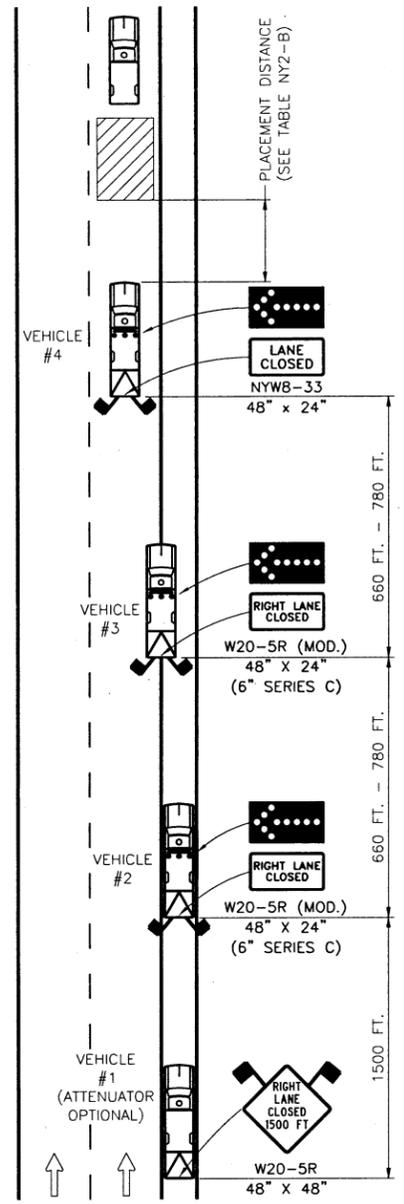
CHECKED BY: J. SHINSKI

DESIGNED BY: R. COURNOYER

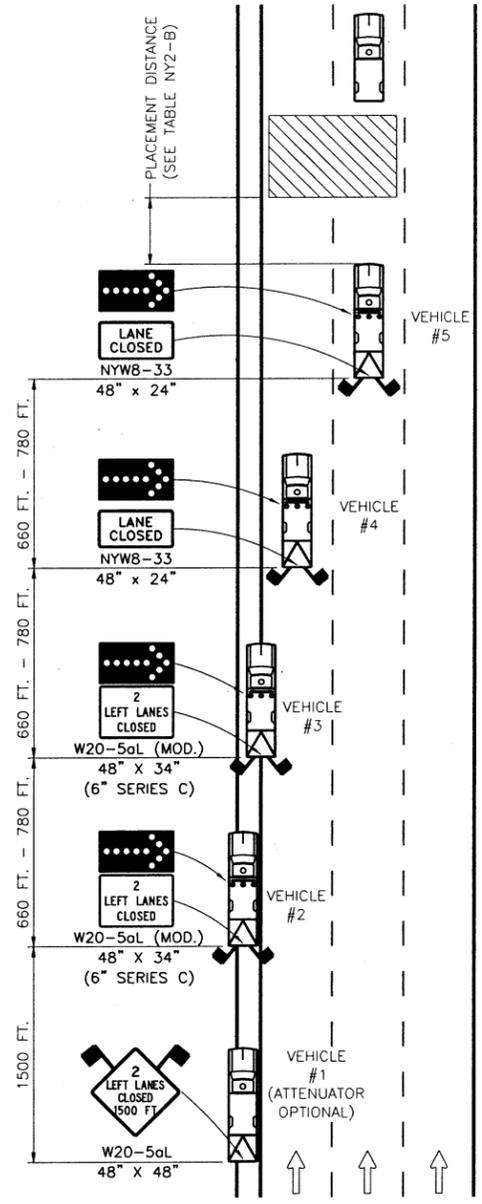
DESIGN SUPERVISOR: T. MAHAR



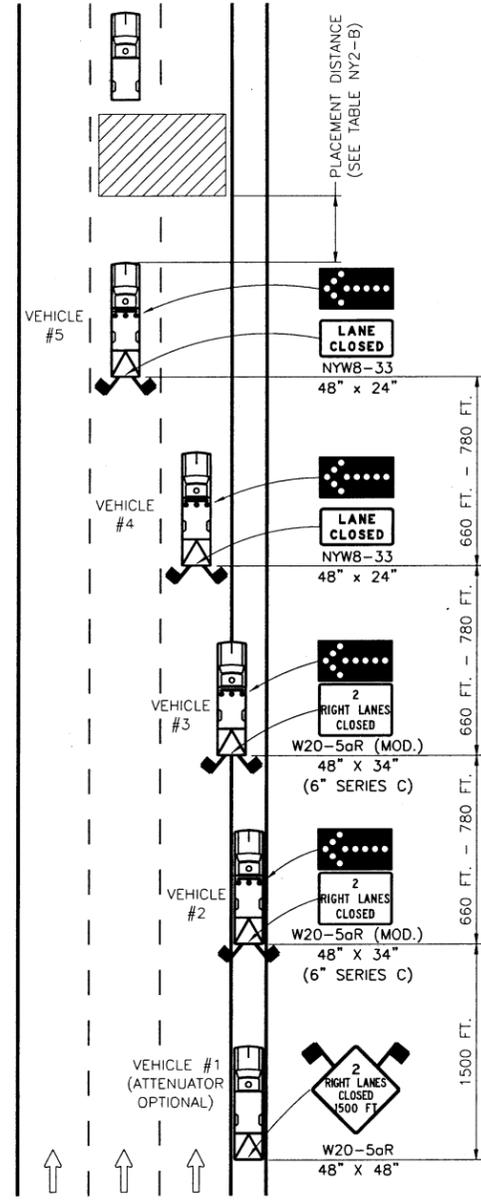
**MOBILE OPERATION
LEFT LANE CLOSURE**
N.T.S.



**MOBILE OPERATION
RIGHT LANE CLOSURE**
N.T.S.



**MOBILE OPERATION
LEFT DOUBLE LANE CLOSURE**
N.T.S.



**MOBILE OPERATION
RIGHT DOUBLE LANE CLOSURE**
N.T.S.

NOTES:

1. THESE PLANS ARE TO BE UTILIZED ONLY WHEN AUTHORIZED BY THE ENGINEER.
2. MOBILE OPERATIONS ARE WORK ACTIVITIES THAT MOVE CONTINUOUSLY OR STOP INTERMITTENTLY FOR SHORT PERIODS IN THE ROADWAY. THE DURATION FOR EACH INTERMITTENT STOP MAY BE APPROXIMATELY 15 MINUTES BEFORE MOVING TO A NEW LOCATION.
3. VEHICLE #4 (LEFT LANE CLOSURE AND RIGHT LANE CLOSURE PLANS) AND VEHICLE #5 (LEFT DOUBLE LANE CLOSURE AND RIGHT DOUBLE LANE CLOSURE PLANS) SHALL NOT BE USED TO TRANSPORT WORKERS, MATERIALS, AND/OR EQUIPMENT TO THE WORK SITE. A SEPARATE WORK VEHICLE(S) SHALL BE REQUIRED.
4. THESE TEMPORARY TRAFFIC CONTROL PLANS SHALL NOT BE ADVANCED THROUGH AN AREA WHERE THERE IS AN EXIT OR ENTRANCE RAMP.
5. WHERE THE LEFT LANE IS TO BE CLOSED, VEHICLE #1 AND VEHICLE #2 ARE TO BE LOCATED COMPLETELY ON THE LEFT SHOULDER, VEHICLE #3 STRADDLES THE LEFT SHOULDER AND THE LEFT LANE, AND VEHICLE #4 IS IN THE LEFT LANE.
6. WHERE THE RIGHT LANE IS TO BE CLOSED, VEHICLE #1 AND VEHICLE #2 ARE TO BE LOCATED COMPLETELY ON THE RIGHT SHOULDER, VEHICLE #3 STRADDLES THE RIGHT SHOULDER AND THE RIGHT LANE, AND VEHICLE #4 IS IN THE RIGHT LANE.
7. WHERE THE LEFT TWO LANES ARE TO BE CLOSED, VEHICLE #1 AND VEHICLE #2 ARE TO BE LOCATED COMPLETELY ON THE LEFT SHOULDER, VEHICLE #3 STRADDLES THE LEFT SHOULDER AND THE LEFT LANE, VEHICLE #4 IS IN THE LEFT LANE, AND VEHICLE #5 IS IN THE CENTER LANE.
8. WHERE THE RIGHT TWO LANES ARE TO BE CLOSED, VEHICLE #1 AND VEHICLE #2 ARE TO BE LOCATED COMPLETELY ON THE RIGHT SHOULDER, VEHICLE #3 STRADDLES THE RIGHT SHOULDER AND THE RIGHT LANE, VEHICLE #4 IS IN THE RIGHT LANE, AND VEHICLE #5 IS IN THE CENTER LANE.
9. FOR VEHICLE #2, A TRAILER-MOUNTED ARROW PANEL MAY BE SUBSTITUTED FOR THE TRUCK-MOUNTED ARROW PANEL.
10. FOR VEHICLE #2, THE ATTENUATOR IS OPTIONAL FOR DAYTIME OPERATIONS. FOR NIGHTTIME OPERATIONS, ALL VEHICLES, INCLUDING VEHICLE #1 AND VEHICLE #2 ON THE SHOULDER, SHALL BE EQUIPPED WITH AN ATTENUATOR.
11. FOR VEHICLE #1, A TRUCK-MOUNTED OR TRAILER-MOUNTED PORTABLE VARIABLE MESSAGE SIGN (PVMS) MAY BE USED IN LIEU OF THE SIGN SHOWN. THE PVMS UNIT SHALL BE COMPLETELY ON THE SHOULDER AND SHALL HAVE NO PORTION PROTRUDE OVER THE TRAVEL LANE AT ANY TIME. THE MESSAGE DISPLAYED SHALL BE THE SAME AS THAT SHOWN.

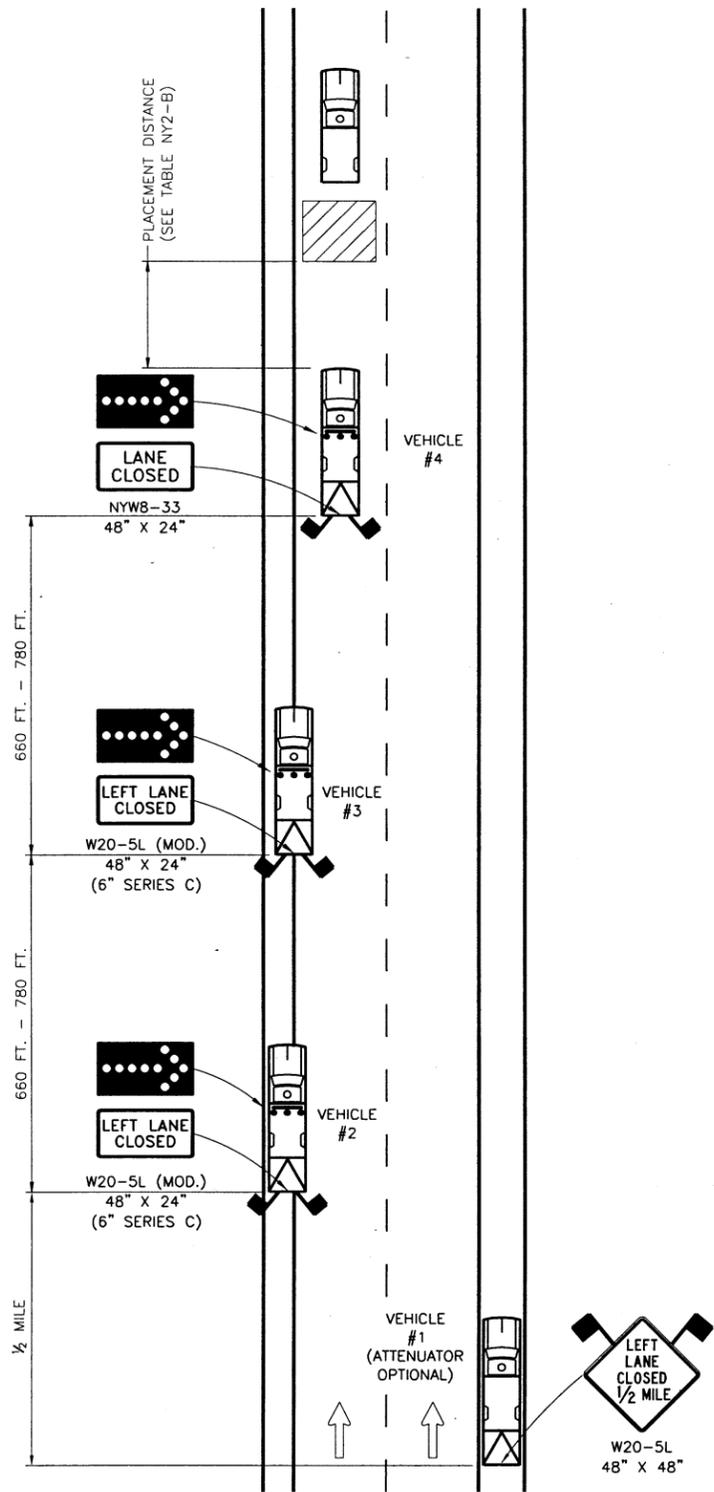
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DATE	DESCRIPTION	BY	SYM.



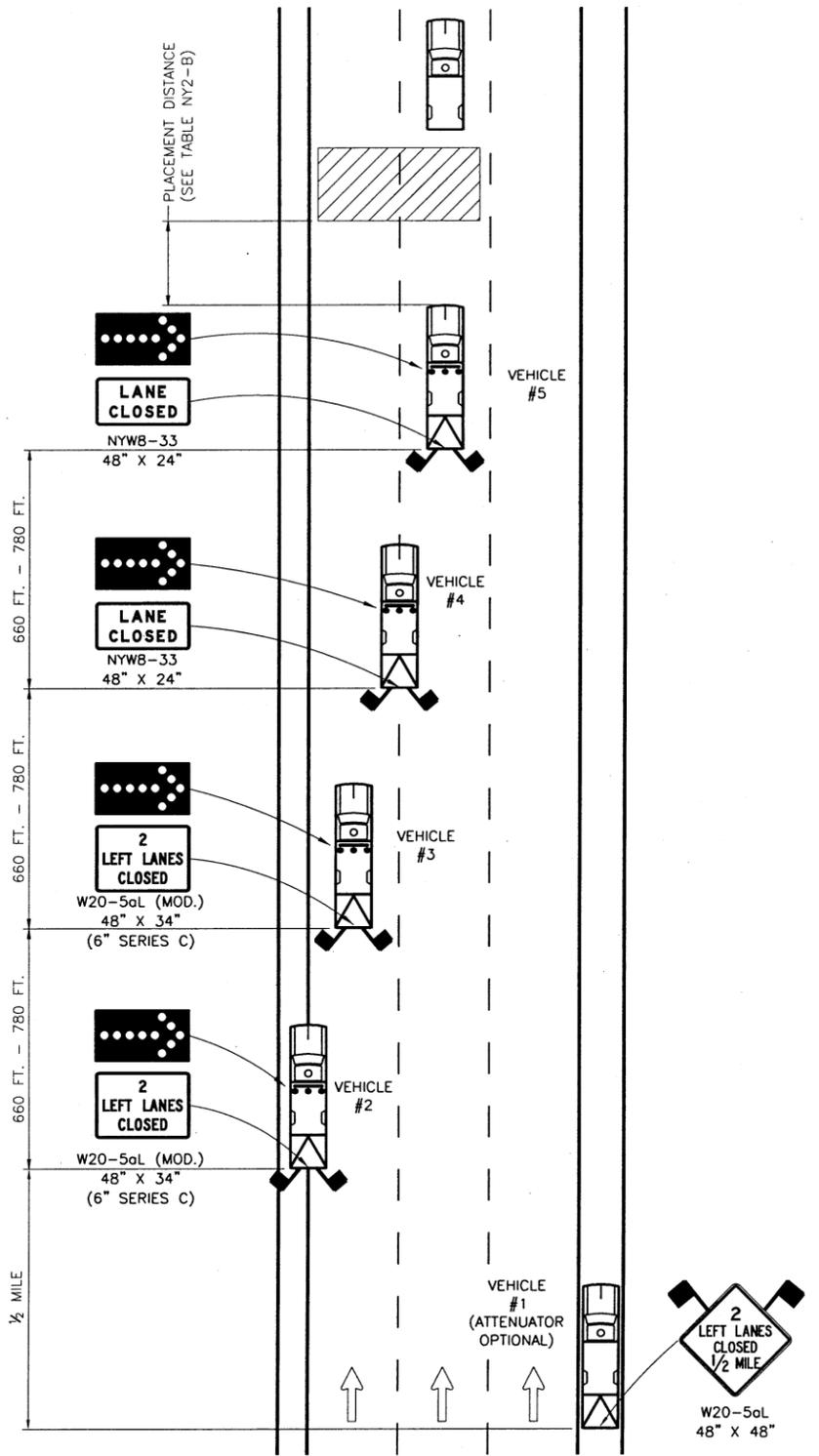
NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT	CONTRACT NUMBER:
ROCK REMEDIATION	TAA 16-41
LOCATION OF PROJECT	DATE:
M.P. 115.0 TO M.P. 116.1 GREENE COUNTY	02/13
TITLE OF DRAWING	DRAWING NUMBER:
MOBILE LANE CLOSURE	MLC

MC-NS.dgn
 CHECKED BY: TA
 DRAFTED BY: CAD
 CHECKED BY: J. SHINSKI
 DESIGNED BY: R. COURNOYER
 DESIGN SUPERVISOR: T. MAHAR



MOBILE OPERATION - SINGLE LANE CLOSURE
IN NARROW SHOULDER AREA
N.T.S.



MOBILE OPERATION - DOUBLE LANE CLOSURE
IN NARROW SHOULDER AREA
N.T.S.

GENERAL NOTES:

1. THESE PLANS ARE TO BE UTILIZED ONLY WHEN AUTHORIZED BY THE ENGINEER.
2. MOBILE OPERATIONS ARE WORK ACTIVITIES THAT MOVE CONTINUOUSLY OR STOP INTERMITTENTLY FOR SHORT PERIODS IN THE ROADWAY. THE DURATION FOR EACH INTERMITTENT STOP MAY BE APPROXIMATELY 15 MINUTES BEFORE MOVING TO A NEW LOCATION.
3. VEHICLE #4 (SINGLE LANE CLOSURE PLAN) AND VEHICLE #5 (DOUBLE LANE CLOSURE PLAN) SHALL NOT BE USED TO TRANSPORT WORKERS, MATERIALS, AND/OR EQUIPMENT TO THE WORK SITE. A SEPARATE WORK VEHICLE(S) SHALL BE REQUIRED.
4. THESE TEMPORARY TRAFFIC CONTROL PLANS SHALL NOT BE ADVANCED THROUGH AN AREA WHERE THERE IS AN EXIT OR ENTRANCE RAMP.
5. FOR VEHICLE #1, A TRUCK-MOUNTED OR TRAILER-MOUNTED PORTABLE VARIABLE MESSAGE SIGN (PVMS) MAY BE USED IN LIEU OF THE SIGN SHOWN. THE PVMS UNIT SHALL BE COMPLETELY ON THE SHOULDER AND SHALL HAVE NO PORTION PROTRUDE OVER THE TRAVEL LANE AT ANY TIME. THE MESSAGE DISPLAYED SHALL BE THE SAME AS THAT SHOWN.

SINGLE LANE CLOSURE NOTES:

1. THE PLAN SHOWN IS FOR A MOBILE OPERATION INVOLVING A LEFT SINGLE LANE CLOSURE IN AN AREA WHERE THE USABLE LEFT SHOULDER/MEDIAN WIDTH IS LESS THAN 8 FEET.
2. WHERE THE LEFT LANE IS TO BE CLOSED, VEHICLE #1 IS TO BE LOCATED COMPLETELY ON THE RIGHT SHOULDER, VEHICLE #2 IS AS FAR LEFT ON THE LEFT SHOULDER AS CONDITIONS PERMIT, VEHICLE #3 STRADDLES THE LEFT SHOULDER AND THE LEFT LANE, AND VEHICLE #4 IS IN THE LEFT LANE.
3. IN AREAS WHERE THERE IS LITTLE TO NO LEFT SHOULDER/MEDIAN WIDTH, VEHICLE #2 AND VEHICLE #3 SHALL BE IN THE LEFT LANE.

DOUBLE LANE CLOSURE NOTES:

1. THE PLAN SHOWN IS FOR A MOBILE OPERATION INVOLVING A LEFT DOUBLE LANE CLOSURE IN AN AREA WHERE THE USABLE LEFT SHOULDER/MEDIAN WIDTH IS LESS THAN 8 FEET.
2. WHERE THE LEFT TWO LANES ARE TO BE CLOSED, VEHICLE #1 IS TO BE LOCATED COMPLETELY ON THE RIGHT SHOULDER, VEHICLE #2 STRADDLES THE LEFT SHOULDER AND THE LEFT LANE, VEHICLE #3 IS IN THE LEFT LANE, VEHICLE #4 STRADDLES THE LEFT LANE AND THE CENTER LANE, AND VEHICLE #5 IS IN THE CENTER LANE.
3. IN AREAS WHERE THERE IS LITTLE TO NO LEFT SHOULDER/MEDIAN WIDTH, VEHICLE #2 SHALL BE IN THE LEFT LANE.

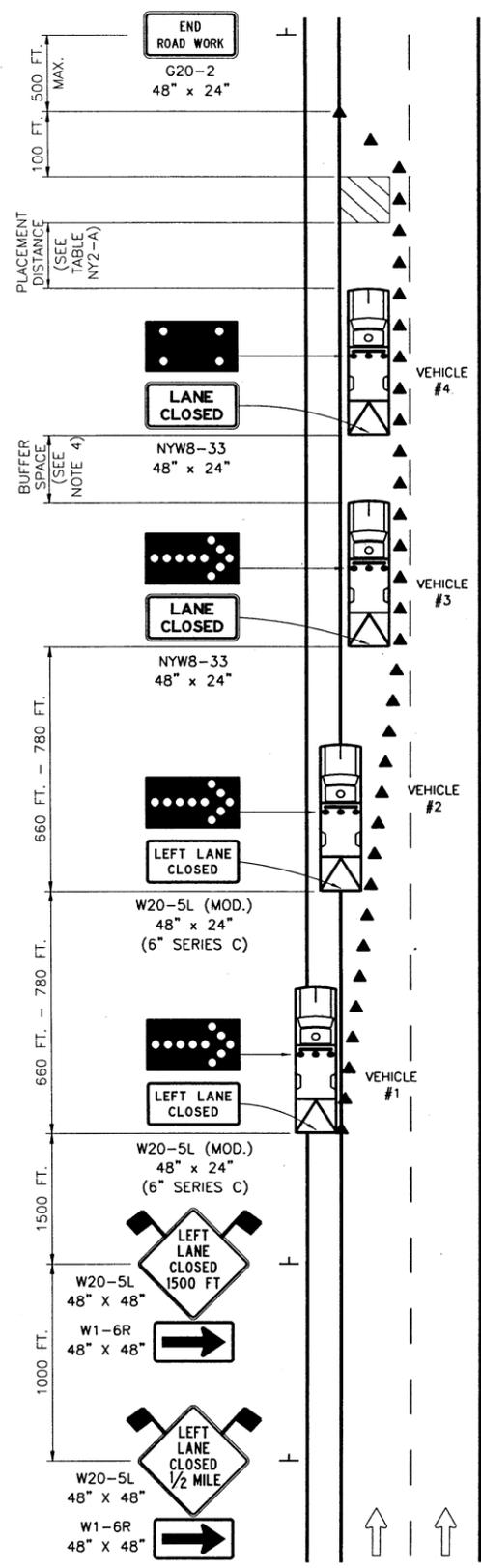
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



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

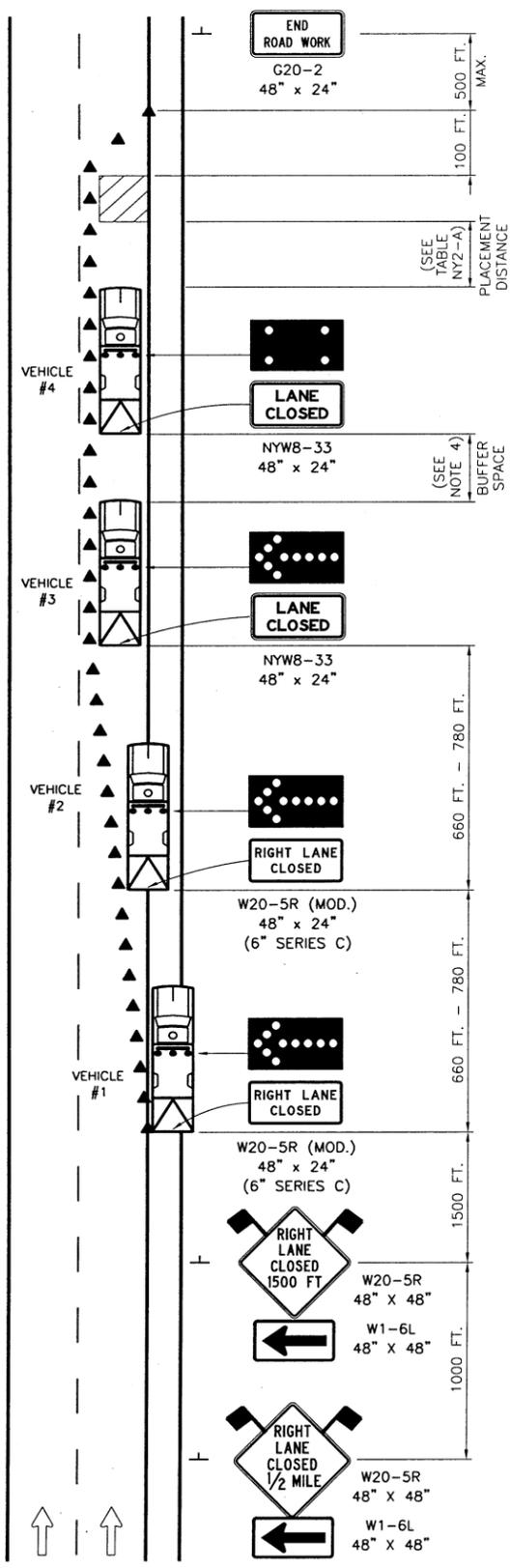
TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0 TO M.P. 116.1 GREENE COUNTY	DATE: 02/13
TITLE OF DRAWING MOBILE LANE CLOSURE (NARROW SHOULDER AREA)	DRAWING NUMBER: MLC-NS

SDLC.dwg
 CHECKED BY: TA
 DRAFTED BY: CAD
 CHECKED BY: J. SHINSKI
 DESIGNED BY: R. COURNOYER
 DESIGN SUPERVISOR: T. MAHAR



SHORT DURATION LEFT LANE CLOSURE

N.T.S.



SHORT DURATION RIGHT LANE CLOSURE

N.T.S.

GENERAL NOTES:

- USE OF THESE PLANS SHALL BE LIMITED TO A WORK SPACE LENGTH OF 1/2 MILE OR LESS AND A DAYTIME WORK DURATION OF UP TO 2 HOURS, OR NIGHTTIME WORK DURATION UP TO 1 HOUR.
- TRAILER-MOUNTED ARROW PANELS MAY BE SUBSTITUTED FOR VEHICLES #1, #2, AND #3. TOW VEHICLES SHALL NOT REMAIN ATTACHED TO TRAILER-MOUNTED ARROW PANELS.
- FOR VEHICLE #1, THE ATTENUATOR IS OPTIONAL FOR DAYTIME OPERATIONS. FOR NIGHTTIME OPERATIONS, ALL VEHICLES, INCLUDING VEHICLE #1 ON THE SHOULDER, SHALL BE EQUIPPED WITH AN ATTENUATOR.
- THE MINIMUM BUFFER SPACE LENGTH SHALL BE THE PLACEMENT DISTANCE REQUIRED FOR BARRIER VEHICLES (SEE TABLE NY2-A). THE LENGTH OF THE BUFFER SPACE SHALL BE EXTENDED, AS DETERMINED BY THE ENGINEER, TO ENSURE ADEQUATE SIGHT DISTANCE FOR VEHICLES APPROACHING THE LANE CLOSURE TAPER.

LEFT LANE CLOSURE NOTES:

- WHERE THE LEFT LANE IS TO BE CLOSED, VEHICLE #1 IS TO BE LOCATED COMPLETELY ON THE LEFT SHOULDER, VEHICLE #2 STRADDLES THE LEFT SHOULDER AND THE LEFT LANE, AND VEHICLE #3 IS IN THE LEFT LANE.
- FOR A LEFT LANE CLOSURE IN AN AREA WHERE THE USABLE LEFT SHOULDER/MEDIAN WIDTH IS LESS THAN 6 FEET, LEFT SIDE SIGNS SHALL BE MOUNTED ON THE MEDIAN BARRIER. IF THE TOTAL MEDIAN WIDTH IS LESS THAN 6 FEET, LEFT SIDE SIGNS IN ADVANCE OF THE LANE CLOSURE TAPER AND THE "END ROAD WORK" (G20-2) SIGN SHALL NOT BE REQUIRED.
- FOR A LEFT LANE CLOSURE IN AN AREA WHERE THE USABLE LEFT SHOULDER/MEDIAN WIDTH IS LESS THAN 8 FEET, VEHICLE #1 IS AS FAR LEFT ON THE LEFT SHOULDER AS CONDITIONS PERMIT, VEHICLE #2 STRADDLES THE LEFT SHOULDER AND THE LEFT LANE, AND VEHICLE #3 IS IN THE LEFT LANE.
- IN AREAS WHERE THERE IS LITTLE TO NO LEFT SHOULDER/MEDIAN WIDTH, VEHICLE #1 AND VEHICLE #2 SHALL BE IN THE LEFT LANE. FOR THESE SITUATIONS, CONSULT THE ENGINEER FOR APPROPRIATE TEMPORARY TRAFFIC CONTROL UPGRADES.

RIGHT LANE CLOSURE NOTES:

- WHERE THE RIGHT LANE IS TO BE CLOSED, VEHICLE #1 IS TO BE LOCATED COMPLETELY ON THE RIGHT SHOULDER, VEHICLE #2 STRADDLES THE RIGHT SHOULDER AND THE RIGHT LANE, AND VEHICLE #3 IS IN THE RIGHT LANE.
- FOR A RIGHT LANE CLOSURE IN AN AREA WHERE THE USABLE LEFT SHOULDER/MEDIAN WIDTH IS LESS THAN 6 FEET, LEFT SIDE SIGNS SHALL BE MOUNTED ON THE MEDIAN BARRIER. IF THE TOTAL MEDIAN WIDTH IS LESS THAN 6 FEET, LEFT SIDE SIGNS SHALL NOT BE REQUIRED.

LEGEND

▲ TALL TRAFFIC CONES
 ● 40 FT. SPACING ON TAPER AND TANGENT

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
	LOCATION OF PROJECT M.P. 115.0 TO M.P. 116.1 GREENE COUNTY	DATE: 02/13
TITLE OF DRAWING SHORT DURATION LANE CLOSURE	DRAWING NUMBER: SDLC	

TRAFFIC CONTROL GUIDE FOR PAVEMENT STRIPING OPERATIONS	THRUWAY MAINLINE		
	TWO LANE SECTION	THREE LANE SECTION	FOUR LANE SECTION
LEFT EDGE LINE ONLY	DRAWING MLC-PS STRIPING OPERATION (LEFT EDGE LINE ONLY)	DRAWING MLC-PS STRIPING OPERATION (LEFT EDGE LINE ONLY)	DRAWING MLC-PS STRIPING OPERATION (LEFT EDGE LINE ONLY)
LEFT EDGE LINE WITH LEFT SKIP LINE	DRAWING MLC-PS STRIPING OPERATION LEFT LANE CLOSURE	DRAWING MLC-PS STRIPING OPERATION LEFT LANE CLOSURE	DRAWING MLC-PS STRIPING OPERATION LEFT LANE CLOSURE
LEFT SKIP LINE ONLY	DRAWING MLC-PS STRIPING OPERATION LEFT LANE CLOSURE	DRAWING MLC-PS STRIPING OPERATION LEFT LANE CLOSURE	DRAWING MLC-PS STRIPING OPERATION LEFT LANE CLOSURE
CENTER SKIP LINE	_____	_____	DRAWING MLC-PS STRIPING OPERATION LEFT DOUBLE LANE CLOSURE
RIGHT SKIP LINE ONLY	_____	DRAWING MLC-PS STRIPING OPERATION LEFT DOUBLE LANE CLOSURE	DRAWING INT TYPICAL DECELERATION AND ACCELERATION LANES
RIGHT EDGE LINE	DRAWING MLC-PS STRIPING OPERATION (RIGHT EDGE LINE ONLY)	DRAWING MLC-PS STRIPING OPERATION (RIGHT EDGE LINE ONLY)	DRAWING MLC-PS STRIPING OPERATION (RIGHT EDGE LINE ONLY)
RIGHT EDGE LINE AT DECELERATION AND ACCELERATION LANES	DRAWING MLC-PS STRIPING OPERATION (RIGHT EDGE LINE ONLY)	DRAWING MLC-PS STRIPING OPERATION (RIGHT EDGE LINE ONLY)	DRAWING MLC-PS STRIPING OPERATION (RIGHT EDGE LINE ONLY)
EDGE LINES AT EXIT AND ENTRANCE RAMP	DRAWING INT-PS	DRAWING INT-PS	DRAWING INT-PS
GORES	DRAWING INT TYPICAL ACCELERATION AND DECELERATION LANES DRAWING SLC-55 OR SLC-65	DRAWING INT TYPICAL ACCELERATION AND DECELERATION LANES DRAWING SLC-55 OR SLC-65	DRAWING INT TYPICAL ACCELERATION AND DECELERATION LANES DRAWING SLC-55 OR SLC-65

NOTES:

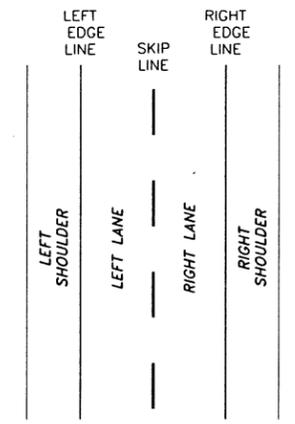
1. THE TABLE SHOWN IS INTENDED TO BE A GUIDE IN SELECTING THE APPROPRIATE WORK ZONE TRAFFIC CONTROL PLAN FOR PAVEMENT STRIPING OPERATIONS.
2. THE FOLLOWING STANDARD TRAFFIC CONTROL DRAWINGS ARE REFERENCED IN THE TABLE:
3. DRAWINGS REFERENCED ON THIS SHEET THAT HAVE NOT BEEN INCLUDED IN THE CONTRACT ARE NOT APPLICABLE.

MLC-PS - MOBILE LANE CLOSURE FOR PAVEMENT STRIPING OPERATIONS

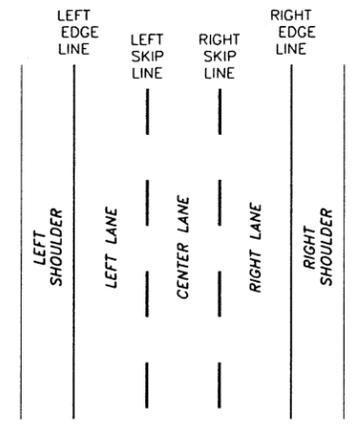
INT-PS - WORK ZONE TRAFFIC CONTROL FOR PAVEMENT STRIPING OPERATIONS AT INTERCHANGES, SERVICE AREAS, AND PARKING AREAS

INT - WORK ZONE TRAFFIC CONTROL AT INTERCHANGES, SERVICE AREAS, AND PARKING AREAS

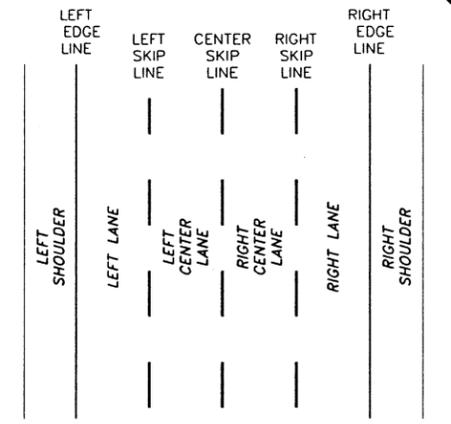
SLC - SINGLE LANE CLOSURE (SHORT- OR INTERMEDIATE-TERM STATIONARY)



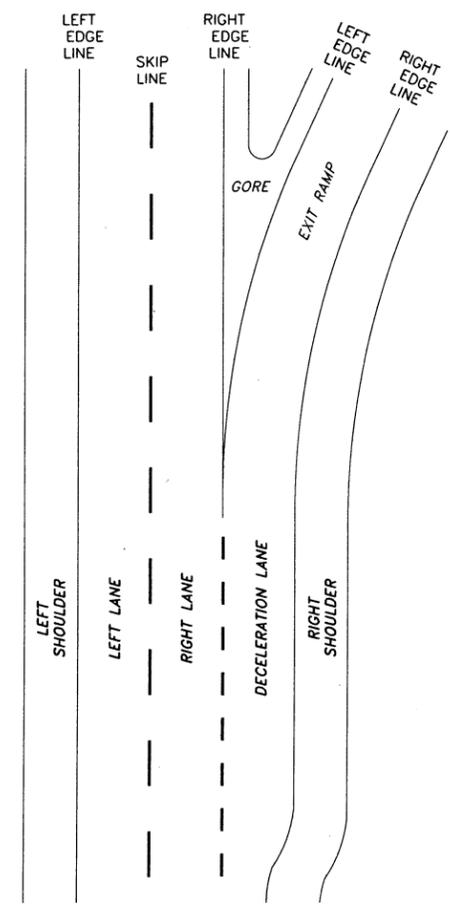
SCHEMATIC TWO LANE SECTION
N.T.S.



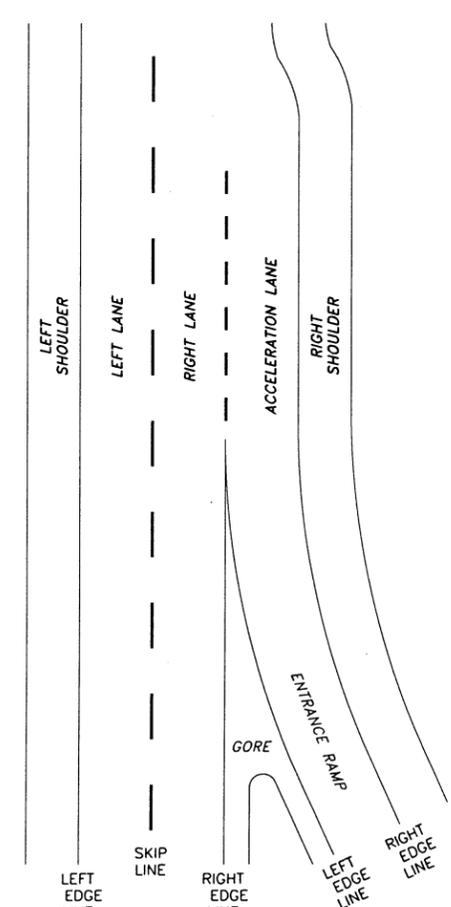
SCHEMATIC THREE LANE SECTION
N.T.S.



SCHEMATIC FOUR LANE SECTION
N.T.S.



SCHEMATIC DECELERATION LANE AND EXIT RAMP
N.T.S.



SCHEMATIC ACCELERATION LANE AND ENTRANCE RAMP
N.T.S.

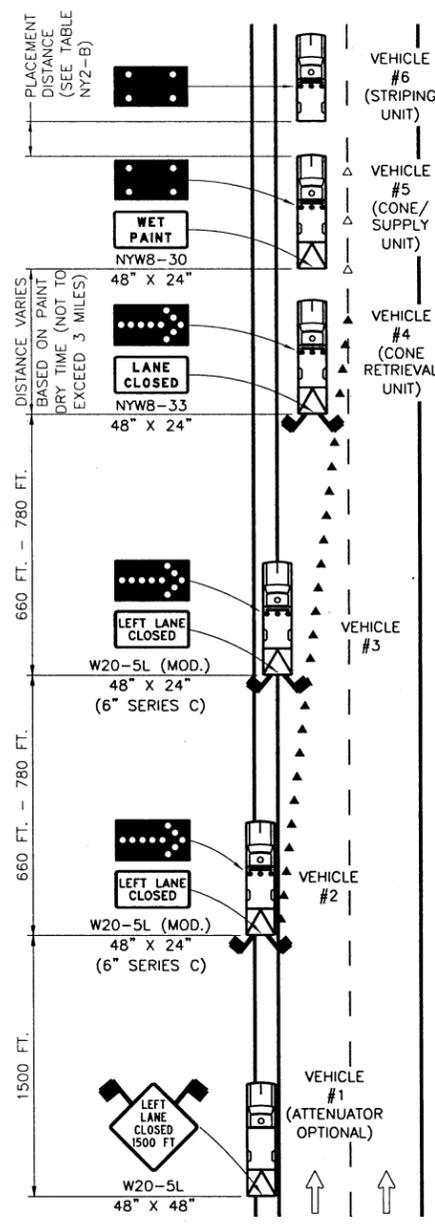
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



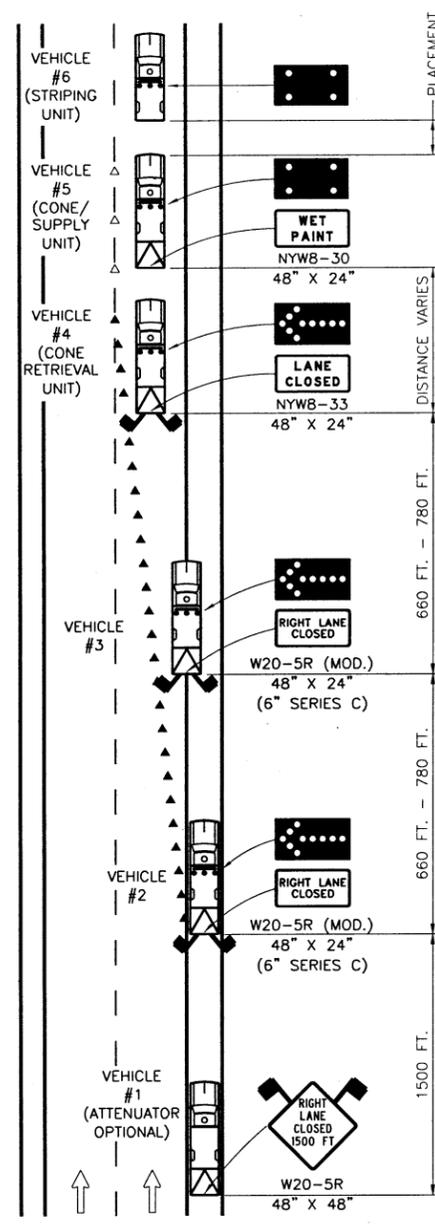
NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0 TO M.P. 116.1 GREENE COUNTY	DATE: 02/13
TITLE OF DRAWING WORK ZONE TRAFFIC CONTROL GUIDE FOR PAVEMENT STRIPING OPERATIONS	DRAWING NUMBER: PM-G

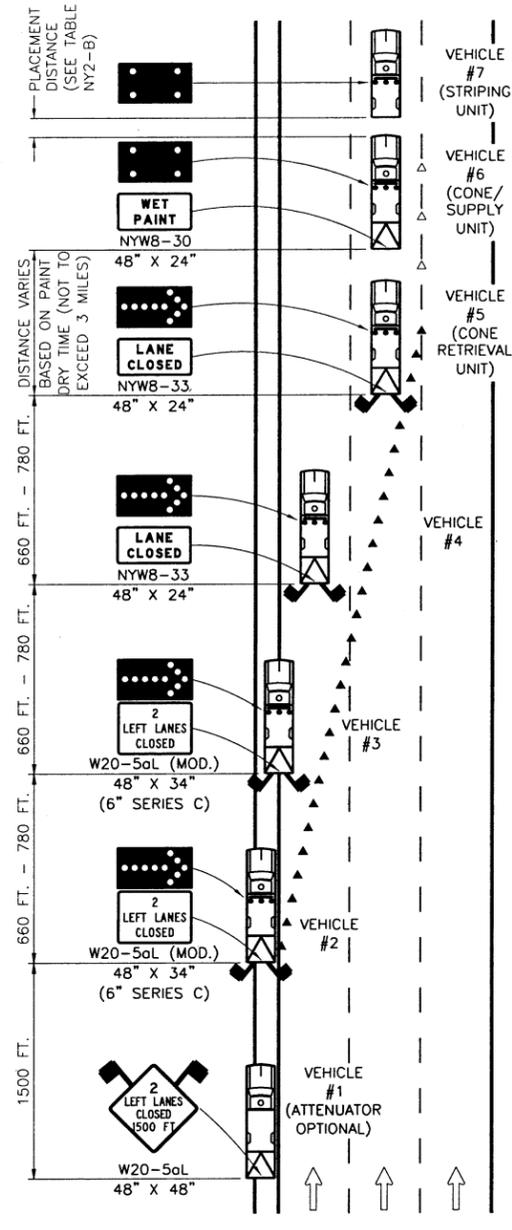
MLC-PS-09n
 CHECKED BY: TA
 DRAFTED BY: CAD
 CHECKED BY: J. SHINSKI
 DESIGNED BY: R. COURNOYER
 T. MAHAR
 DESIGN SUPERVISOR:



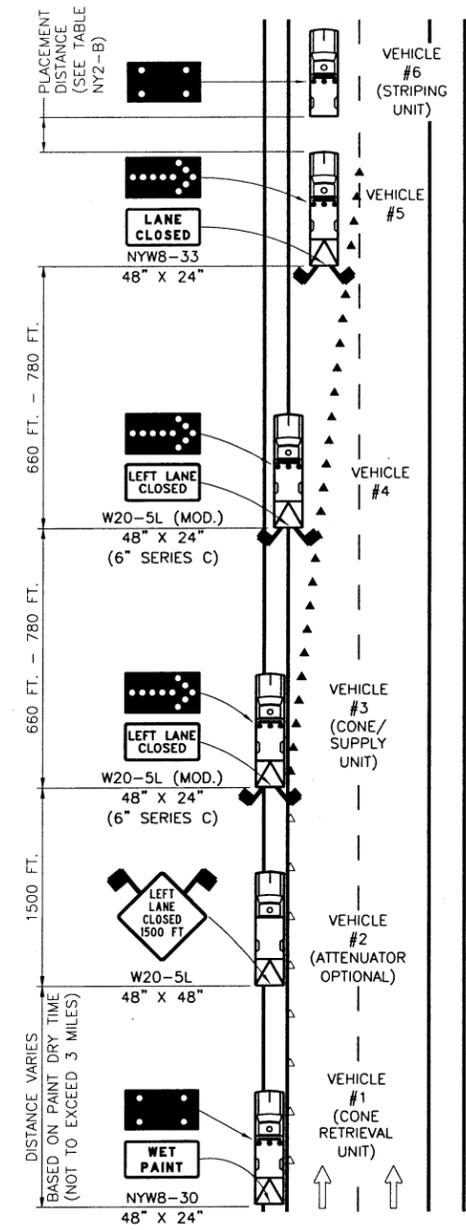
**STRIPING OPERATION
LEFT LANE CLOSURE**
N.T.S.



**STRIPING OPERATION
RIGHT LANE CLOSURE**
N.T.S.



**STRIPING OPERATION
LEFT DOUBLE LANE CLOSURE**
N.T.S.



**STRIPING OPERATION
(LEFT EDGE LINE ONLY)**
N.T.S.

NOTES:

1. THESE PLANS ARE TO BE UTILIZED ONLY WHEN AUTHORIZED BY THE ENGINEER.
2. WHERE THE LEFT LANE IS TO BE CLOSED, VEHICLE #1 AND VEHICLE #2 ARE TO BE LOCATED COMPLETELY ON THE LEFT SHOULDER, VEHICLE #3 STRADDLES THE LEFT SHOULDER AND THE LEFT LANE, AND VEHICLES #4, #5, AND #6 ARE IN THE LEFT LANE.
3. WHERE THE RIGHT LANE IS TO BE CLOSED, VEHICLE #1 AND VEHICLE #2 ARE TO BE LOCATED COMPLETELY ON THE RIGHT SHOULDER, VEHICLE #3 STRADDLES THE RIGHT SHOULDER AND THE RIGHT LANE, AND VEHICLES #4, #5, AND #6 ARE IN THE RIGHT LANE.
4. WHERE THE LEFT TWO LANES ARE TO BE CLOSED, VEHICLE #1 AND VEHICLE #2 ARE TO BE LOCATED COMPLETELY ON THE LEFT SHOULDER, VEHICLE #3 STRADDLES THE LEFT SHOULDER AND THE LEFT LANE, VEHICLE #4 IS IN THE LEFT LANE, AND VEHICLES #5, #6, AND #7 ARE IN THE CENTER LANE.
5. WHERE THE LEFT LANE IS TO BE CLOSED FOR STRIPING THE LEFT EDGE LINE ONLY, VEHICLES #1, #2, AND #3 ARE TO BE LOCATED COMPLETELY ON THE LEFT SHOULDER, VEHICLE #4 STRADDLES THE LEFT SHOULDER AND THE LEFT LANE, AND VEHICLES #5 AND #6 ARE IN THE LEFT LANE.
6. THE STRIPING OPERATION (RIGHT EDGE LINE ONLY) PLAN SHALL BE THE MIRROR IMAGE OF THE STRIPING OPERATION (LEFT EDGE LINE ONLY) PLAN. SUBSTITUTE "RIGHT LANE CLOSED 1500 FT" (W20-5R) SIGN FOR THE "LEFT LANE CLOSED 1500 FT" (W20-5L) SIGN.
7. IF THE CONE/SUPPLY VEHICLE IS NOT EQUIPPED WITH AN ATTENUATOR AND ARROW PANEL, A SHADOW VEHICLE SHALL BE ADDED TO THE PLAN AND BE PLACED BEHIND THE CONE/SUPPLY VEHICLE IN ACCORDANCE WITH TABLE NY2-B.

8. FOR VEHICLE #1 (VEHICLE #2 FOR "EDGE LINE ONLY" PLAN), A TRUCK-MOUNTED OR TRAILER-MOUNTED PORTABLE VARIABLE MESSAGE SIGN (PVMS) MAY BE USED IN LIEU OF THE SIGN SHOWN. THE PVMS UNIT SHALL BE COMPLETELY ON THE SHOULDER AND SHALL HAVE NO PORTION PROTRUDE OVER THE TRAVEL LANE AT ANY TIME. THE MESSAGE DISPLAYED SHALL BE THE SAME AS THAT SHOWN.
9. IN AREAS WHERE THE WIDTH OF THE LEFT SHOULDER/MEDIAN PREVENTS THE PLACEMENT OF VEHICLES #1 AND #2 (VEHICLES #1, #2, AND #3 FOR "LEFT EDGE LINE ONLY" PLAN) COMPLETELY ON THE SHOULDER, THE TEMPORARY TRAFFIC CONTROL PLAN "MOBILE LANE CLOSURE FOR PAVEMENT STRIPING OPERATIONS (NARROW SHOULDER AREA)" SHALL BE USED IN LIEU OF THIS PLAN.

LEGEND

- △ TRAFFIC CONES @ 80 FT. SPACING PLACED ADJACENT TO WET PAINT STRIPE AND REMOVED SUBSEQUENT TO DRYING.
- ▲ TRAFFIC CONES @ 40 FT. SPACING WHEN MOBILE OPERATIONS BECOME TEMPORARILY STATIONARY FOR PERIODS LONGER THAN 15 (FIFTEEN) MINUTES IN DURATION. TRAFFIC CONES ARE TO BE REMOVED UPON RESUMPTION OF MOBILE OPERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



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

TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0 TO M.P. 116.1 GREENE COUNTY	DATE: 02/13
TITLE OF DRAWING MOBILE LANE CLOSURE FOR PAVEMENT STRIPING OPERATIONS	DRAWING NUMBER: MLC-PS

MLC-PS-NS.dgn
 CHECKED BY: TA
 DRAFTED BY: CAD
 CHECKED BY: J. SHINSKI
 DESIGNED BY: R. COURNOYER
 DESIGN SUPERVISOR: T. MAHAR

GENERAL NOTES:

1. THESE PLANS ARE TO BE UTILIZED ONLY WHEN AUTHORIZED BY THE ENGINEER.
2. IF THE CONE/SUPPLY VEHICLE IS NOT EQUIPPED WITH AN ATTENUATOR AND ARROW PANEL, A SHADOW VEHICLE SHALL BE ADDED TO THE PLAN AND BE PLACED BEHIND THE CONE/SUPPLY VEHICLE IN ACCORDANCE WITH TABLE NY2-B.
3. FOR VEHICLE #1, A TRUCK-MOUNTED OR TRAILER-MOUNTED PORTABLE VARIABLE MESSAGE SIGN (PVMS) MAY BE USED IN LIEU OF THE SIGN SHOWN. THE PVMS UNIT SHALL BE COMPLETELY ON THE SHOULDER AND SHALL HAVE NO PORTION PROTRUDE OVER THE TRAVEL LANE AT ANY TIME. THE MESSAGE DISPLAYED SHALL BE THE SAME AS THAT SHOWN.

SINGLE LANE CLOSURE NOTES:

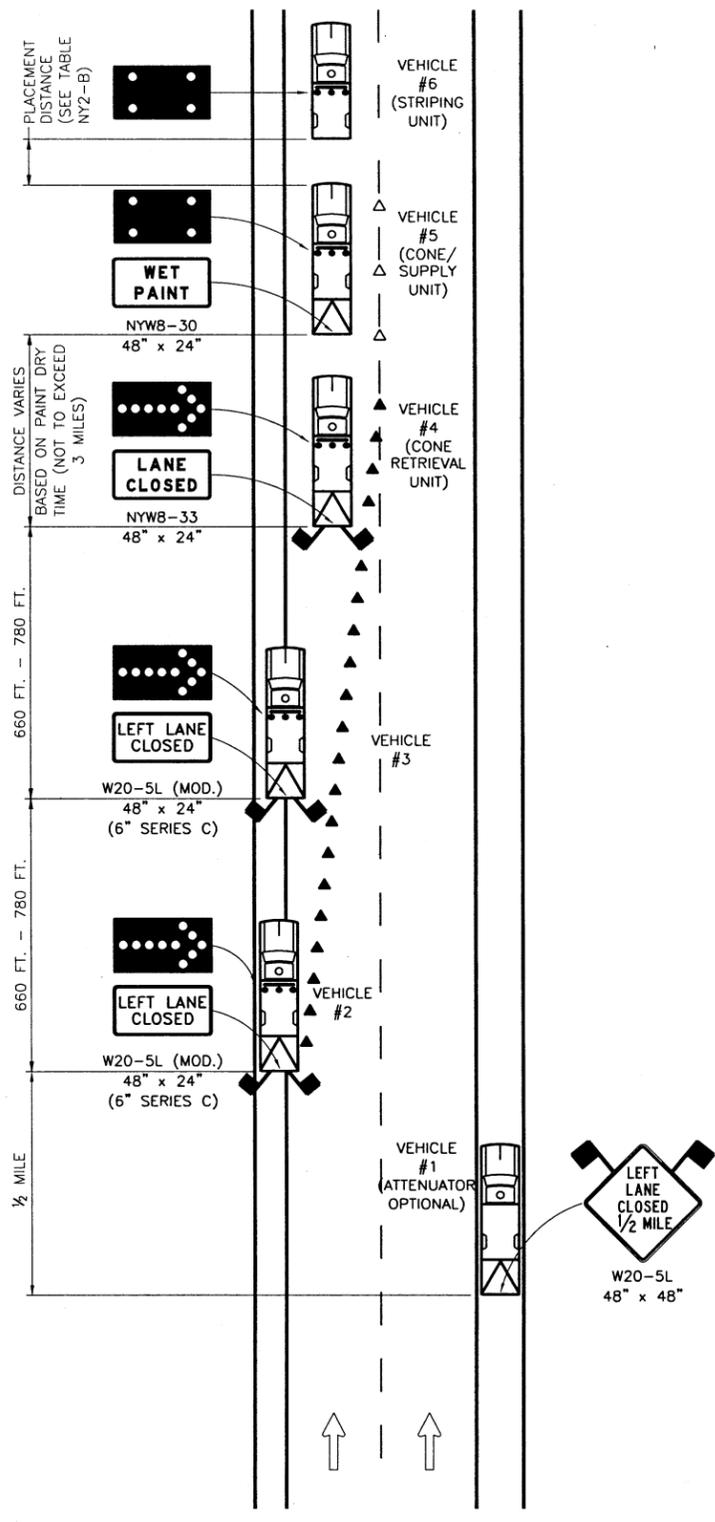
1. THE PLAN SHOWN IS FOR A STRIPING OPERATION INVOLVING A LEFT SINGLE LANE CLOSURE IN AN AREA WHERE THE USABLE LEFT SHOULDER/MEDIAN WIDTH IS LESS THAN 8 FEET.
2. WHERE THE LEFT LANE IS TO BE CLOSED, VEHICLE #1 IS TO BE LOCATED COMPLETELY ON THE RIGHT SHOULDER, VEHICLE #2 IS AS FAR LEFT ON THE LEFT SHOULDER AS CONDITIONS PERMIT, VEHICLE #3 STRADDLES THE LEFT SHOULDER AND THE LEFT LANE, AND VEHICLES #4, #5, AND #6 ARE IN THE LEFT LANE.
3. IN AREAS WHERE THERE IS LITTLE TO NO LEFT SHOULDER/MEDIAN WIDTH, VEHICLE #2 AND VEHICLE #3 SHALL BE IN THE LEFT LANE.

DOUBLE LANE CLOSURE NOTES:

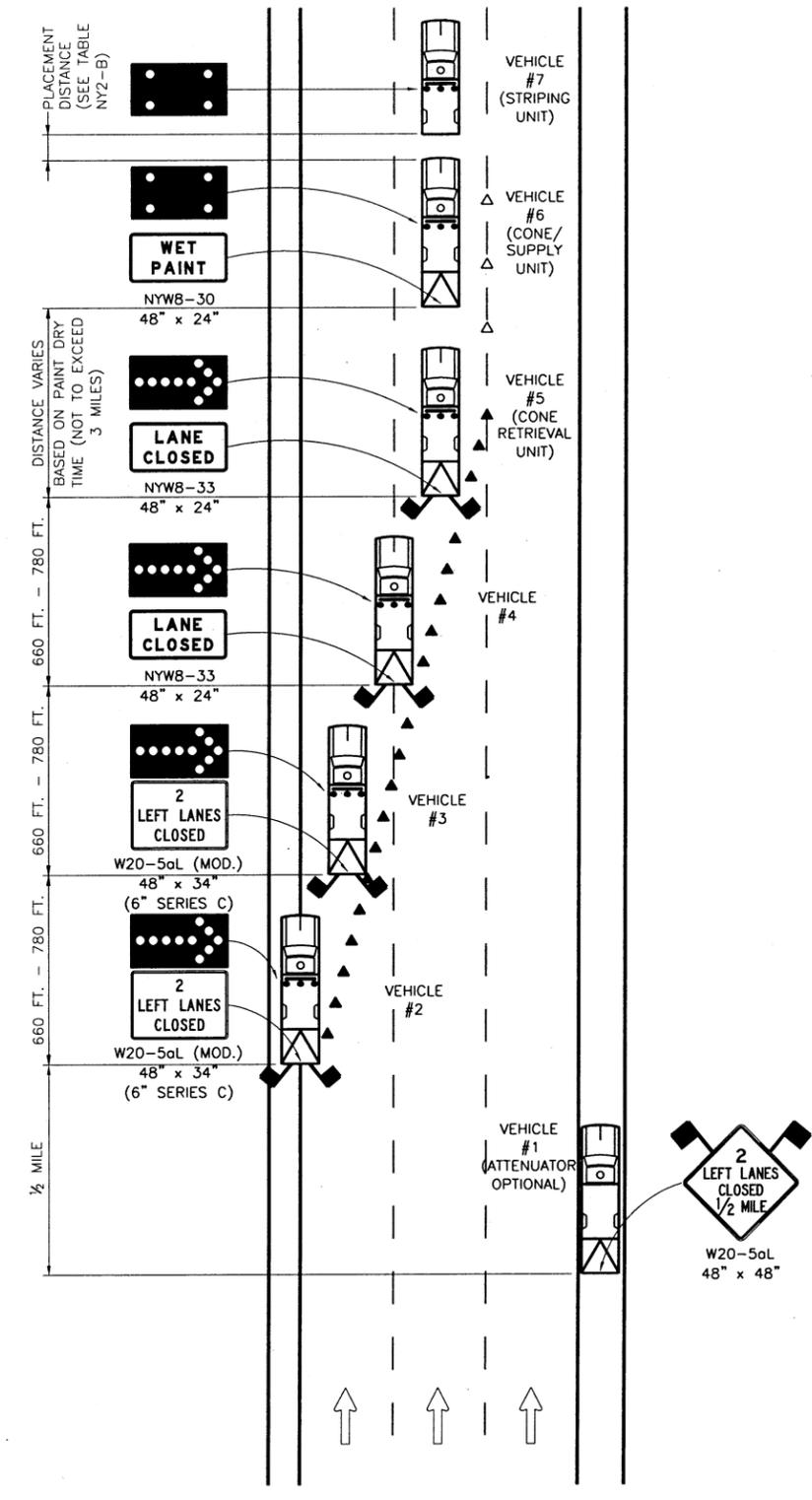
1. THE PLAN SHOWN IS FOR A STRIPING OPERATION INVOLVING A LEFT DOUBLE LANE CLOSURE IN AN AREA WHERE THE USABLE LEFT SHOULDER/MEDIAN WIDTH IS LESS THAN 8 FEET.
2. WHERE THE LEFT TWO LANES ARE TO BE CLOSED, VEHICLE #1 IS TO BE LOCATED COMPLETELY ON THE RIGHT SHOULDER, VEHICLE #2 STRADDLES THE LEFT SHOULDER AND THE LEFT LANE, VEHICLE #3 IS IN THE LEFT LANE, VEHICLE #4 STRADDLES THE LEFT LANE AND THE CENTER LANE, AND VEHICLES #5, #6, AND #7 ARE IN THE CENTER LANE.
3. IN AREAS WHERE THERE IS LITTLE TO NO LEFT SHOULDER/MEDIAN WIDTH, VEHICLE #2 SHALL BE IN THE LEFT LANE.

LEGEND

- △ TRAFFIC CONES @ 80 FT. SPACING PLACED ADJACENT TO WET PAINT STRIPE AND REMOVED SUBSEQUENT TO DRYING.
- ▲ TRAFFIC CONES @ 40 FT. SPACING WHEN MOBILE OPERATIONS BECOME TEMPORARILY STATIONARY FOR PERIODS LONGER THAN 15 (FIFTEEN) MINUTES IN DURATION. TRAFFIC CONES ARE TO BE REMOVED UPON RESUMPTION OF MOBILE OPERATION.



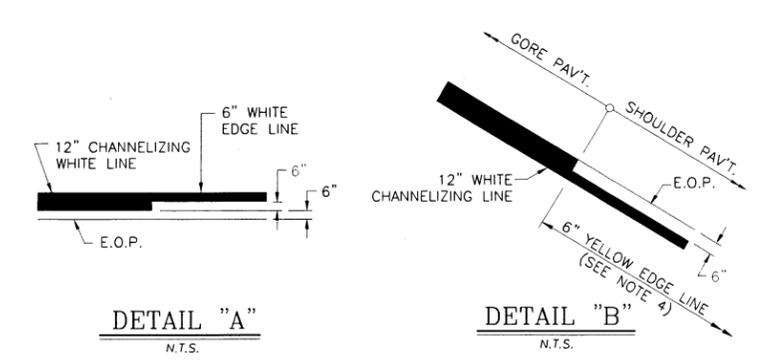
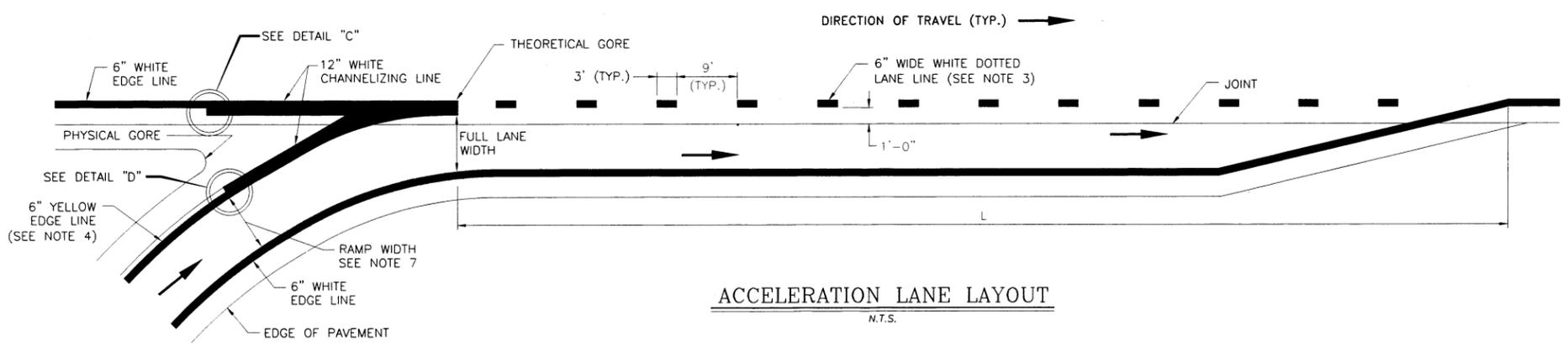
STRIPING OPERATION - SINGLE LANE CLOSURE IN NARROW SHOULDER AREA
N.T.S.



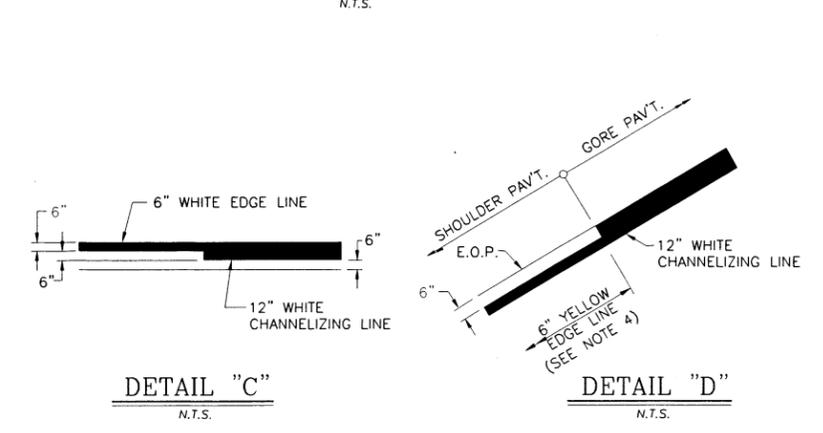
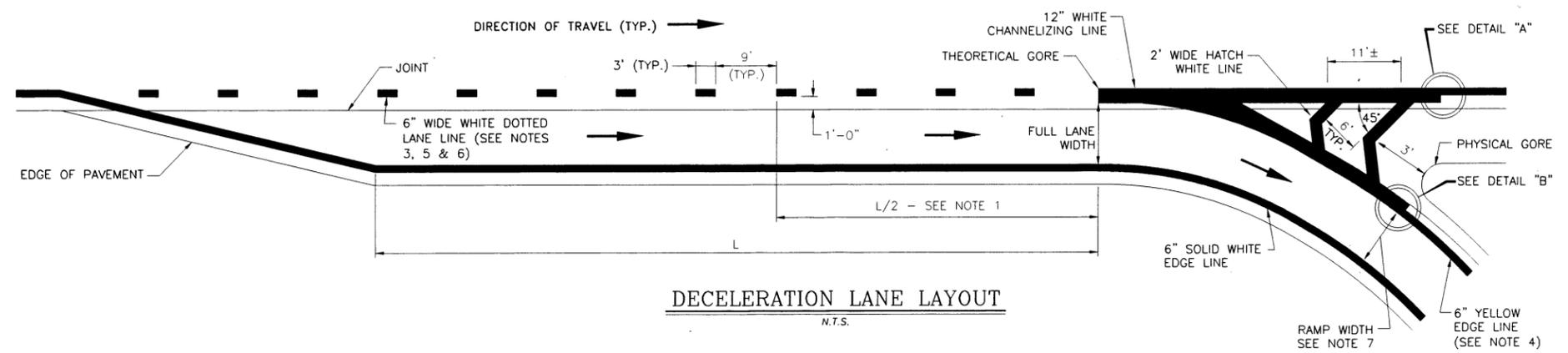
STRIPING OPERATION - DOUBLE LANE CLOSURE IN NARROW SHOULDER AREA
N.T.S.

REVISIONS				NEW YORK STATE THRUWAY AUTHORITY	NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	TITLE OF PROJECT	CONTRACT NUMBER:
DATE	DESCRIPTION	BY	SYM.			ROCK REMEDIATION	TAA 16-41
						LOCATION OF PROJECT M.P. 115.0 TO M.P. 116.1 GREENE COUNTY	DATE: 02/13
				TITLE OF DRAWING MOBILE LANE CLOSURE FOR PAVEMENT STRIPING OPERATIONS (NARROW SHOULDER AREA)		DRAWING NUMBER: MLC-PS-NS	

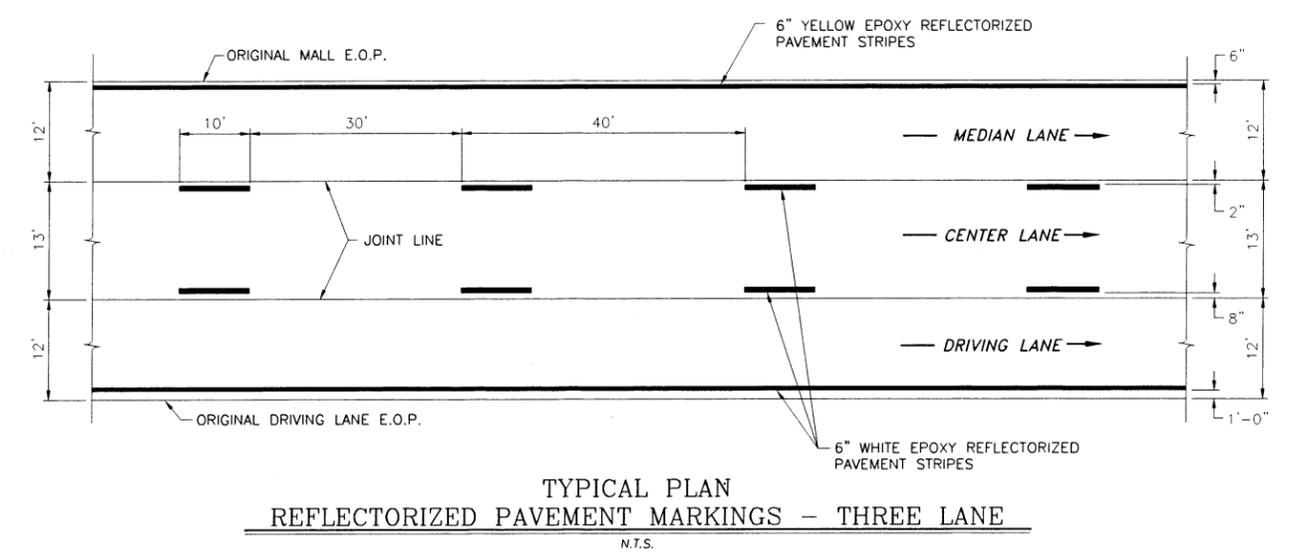
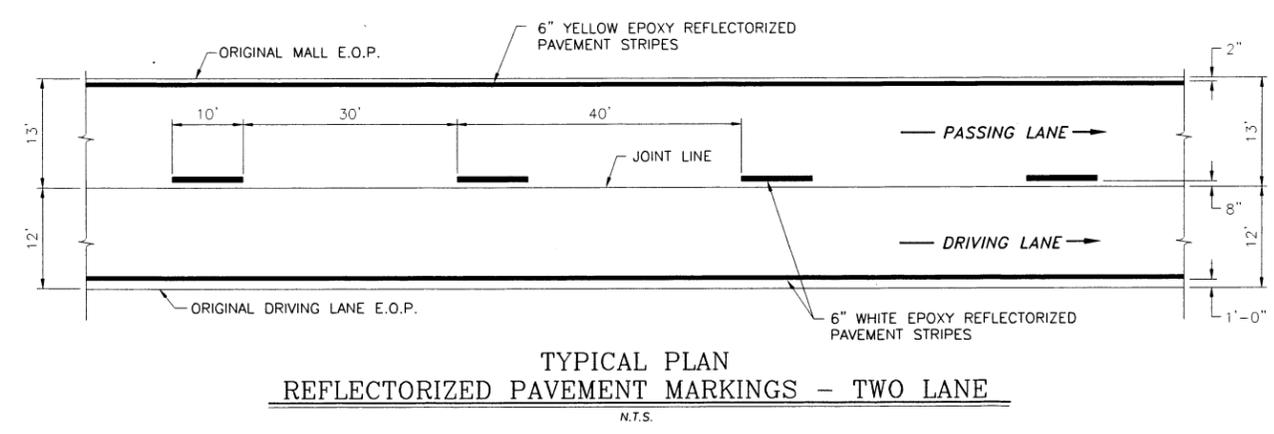
PMA-1.dwg
 CHECKED BY: TA
 DRAFTED BY: CAD
 CHECKED BY: J. SHINSKI
 DESIGNED BY: R. COURNOYER
 DESIGN SUPERVISOR: T. MAHAR



DECELERATION LANE DETAILS
N.T.S.



ACCELERATION LANE DETAILS
N.T.S.



NOTES:

- WHEN THE CONTRACT DOES NOT INCLUDE REPAVING THE GORE, THE EXISTING STRIPING PATTERN IN THE DECELERATION RAMP GORE SHALL BE REPAINTED UNLESS OTHERWISE NOTED.
- WHEN THE CONTRACT PROVIDES FOR REPAVING OF THE DECELERATION LANE GORE, A "CHEVRON" PATTERN SHALL BE INSTALLED IN THE NEWLY PAVED GORE AS SHOWN IN THE "DECELERATION LANE LAYOUT".
- IF A PARTIAL BARRIER AND/OR SKIP LINES EXIST AT AN ACCELERATION OR DECELERATION LANE, THEY SHALL BE REMOVED AND THE LANE SHALL BE RESTRIPEDED AS SHOWN IN THE APPROPRIATE LANE LAYOUT.
- YELLOW EDGE LINE ON RAMP SHALL EXTEND TO ACTUAL PHYSICAL GORE. THE PHYSICAL GORE IS A POINT WHERE A PHYSICAL BARRIER (I.E. SIGN POST, ATTENUATOR, OR OTHER FIXED OBJECT) OR LACK OF A PAVED SURFACE INHIBITS ROAD USER FROM CROSSING A RAMP TO A TRAVEL LANE OR VICE VERSA.
- A 12" WIDE WHITE DOTTED LANE LINE SHALL BE USED AS A LANE DROP MARKING IN ADVANCE OF LANE DROPS AT EXIT RAMP TO DISTINGUISH A LANE DROP FROM A NORMAL EXIT RAMP.
- WHITE DOTTED LANE LINES USED IN ADVANCE OF LANE DROPS SHOULD BEGIN AT LEAST 1/2 MILE IN ADVANCE OF THE THEORETICAL GORE.
- WHEN STRIPES ARE REMOVED ON RAMP, THE CONTRACTOR SHALL NOTE THE EXISTING RAMP WIDTHS, STRIPE LOCATIONS AND REPLACE THE STRIPING IN THE SAME LOCATION UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS.

REVISIONS			
DATE	DESCRIPTION	BY	SYM

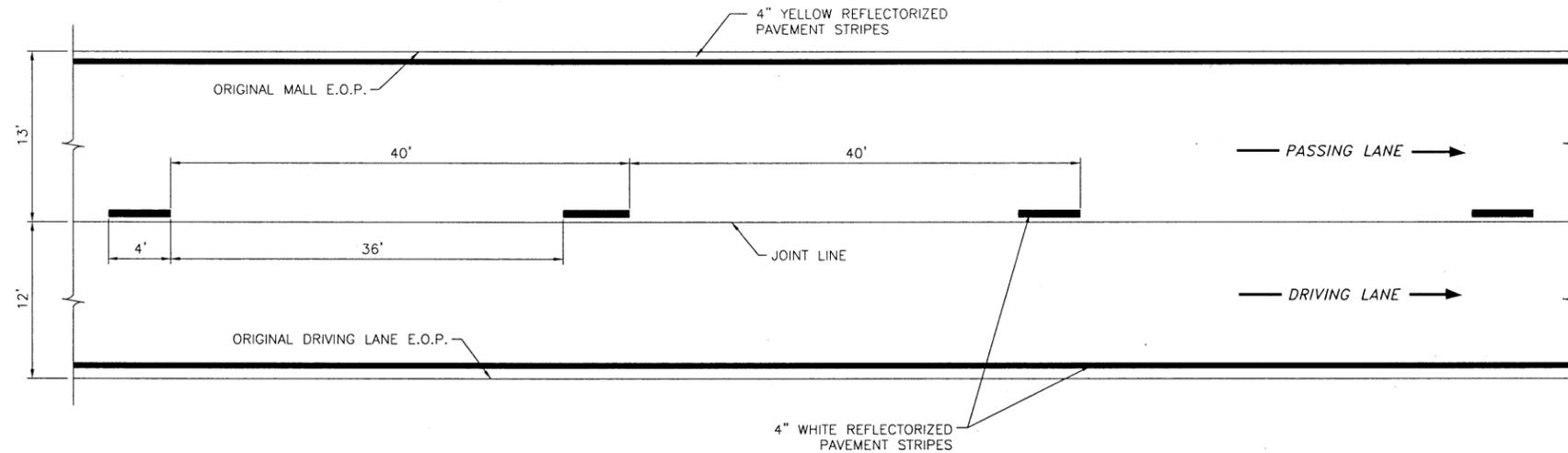


NEW YORK STATE THRUWAY AUTHORITY
DEPARTMENT OF ENGINEERING
200 SOUTHERN BLVD., ALBANY, N.Y. 12209

TITLE OF PROJECT: **ROCK REMEDIATION**
LOCATION OF PROJECT: **M.P. 115.0 TO M.P. 116.1 GREENE COUNTY**
TITLE OF DRAWING: **PAVEMENT STRIPING DETAILS (ASPHALT PAVEMENT)**

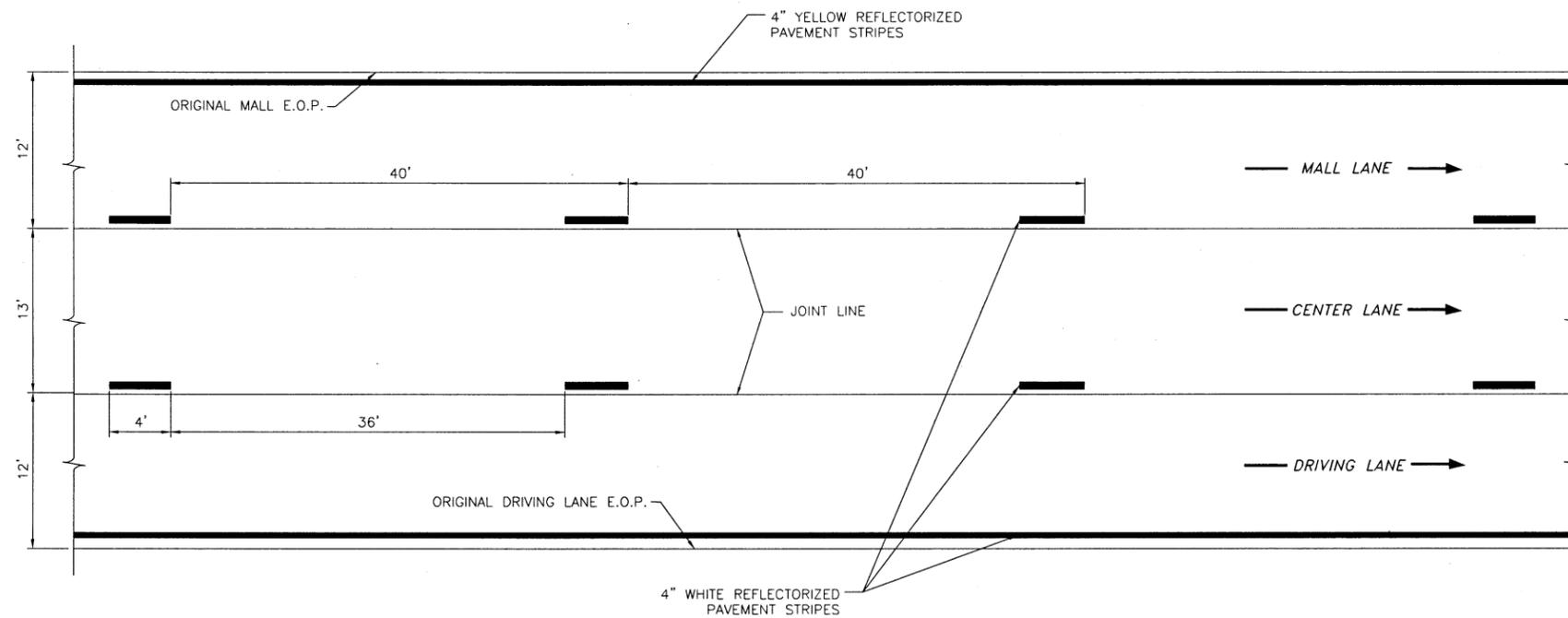
CONTRACT NUMBER: **TAA 16-41**
DATE: **11/14**
DRAWING NUMBER: **PMA-1**

PM-T.dwg
 CHECKED BY: TA
 DRAFTED BY: CAD
 CHECKED BY: J. SHINSKI
 DESIGNED BY: R. COURNOYER
 DESIGN SUPERVISOR: T. MAHAR



**TYPICAL PLAN
TEMPORARY PAVEMENT MARKINGS - TWO LANE**
N.T.S.

NOTE: DETAIL SHOWN IS FOR FINISHED OR UNFINISHED PAVEMENT SURFACES. (SEE NOTES 3, 4, & 5)



**TYPICAL PLAN
TEMPORARY PAVEMENT MARKINGS - THREE LANE**
N.T.S.

NOTE: DETAIL SHOWN IS FOR FINISHED OR UNFINISHED PAVEMENT SURFACES. (SEE NOTES 3, 4, & 5)

GENERAL NOTES:

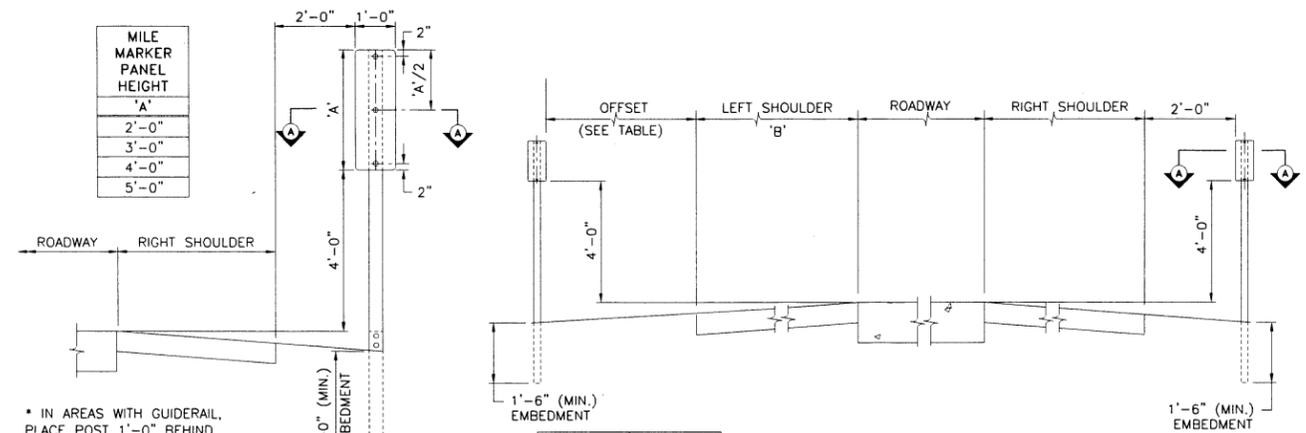
- TEMPORARY PAVEMENT MARKINGS SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619-3.06 OF THE STANDARD SPECIFICATIONS. PAYMENT FOR TEMPORARY PAVEMENT MARKINGS SHALL BE MADE IN ACCORDANCE WITH SECTION 619-5.06 OF THE STANDARD SPECIFICATIONS AND THE APPROPRIATE ITEM(S) INCLUDED IN THE CONTRACT.
- PAYMENT FOR THE TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH SECTION 619-5.06.
- PAVEMENT MARKING PAINT MAY BE USED FOR TEMPORARY PAVEMENT MARKINGS ON ALL UNDERLYING PAVEMENT COURSES (I.E. BASE, BINDER, LEVELING, AND SHIM). PAVEMENT MARKING PAINT SHALL NOT BE USED ON ANY FINISHED PAVEMENT SURFACE UNLESS THE LOCATION OF THE MARKINGS COINCIDE WITH FINAL EPOXY PAVEMENT MARKINGS.
- REMOVABLE PAVEMENT MARKINGS PLACED ON FINISHED PAVEMENT SURFACES SHALL BE OFFSET 12" FROM THE FINAL POSITION OF THE PERMANENT PAVEMENT MARKINGS.
- OFFSETS FOR TEMPORARY PAVEMENT MARKINGS MAY BE ADJUSTED WITH THE APPROVAL OF THE ENGINEER TO ACCOMMODATE CONSTRUCTION STAGING.
- SOLID EDGE LINES ARE REQUIRED PRIOR TO OPENING A LANE TO TRAFFIC UNLESS STARS ARE IN PLACE, IN WHICH CASE THE CONTRACTOR HAS UP TO 7 CALENDAR DAYS TO INSTALL THE SOLID EDGE LINES.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



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

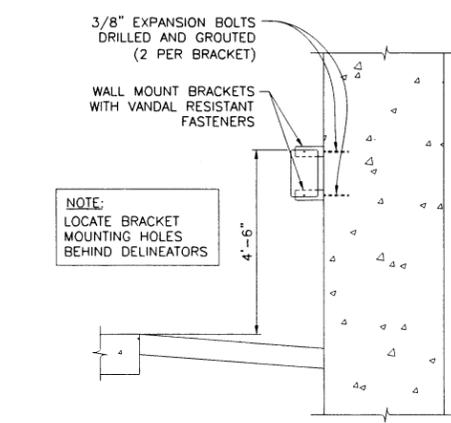
TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
LOCATION OF PROJECT M.P. 115.0 TO M.P. 116.1 GREENE COUNTY	DATE: 12/12
TITLE OF DRAWING TEMPORARY PAVEMENT MARKING DETAILS	DRAWING NUMBER: PM-T



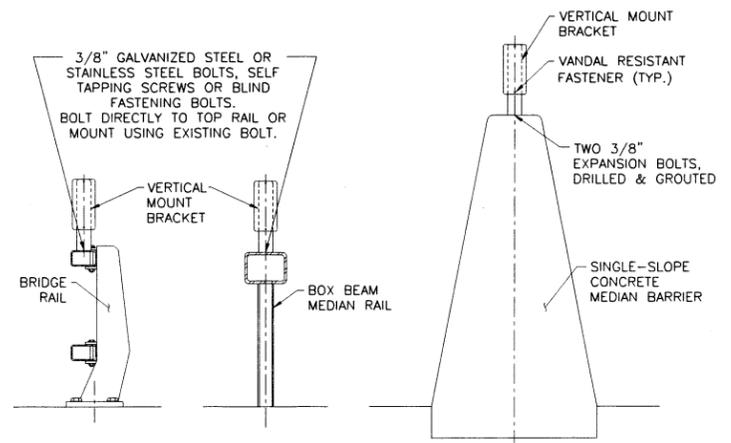
'B'	OFFSET
4'-0"	8'-0"
6'-0"	6'-0"
10'-0"	4'-0"
12'-0"	2'-0"

TENTH MILE MARKER AND DELINEATOR POST MOUNT INSTALLATION DETAIL
N.T.S.

MILE MARKER POST MOUNT INSTALLATION DETAIL
N.T.S.

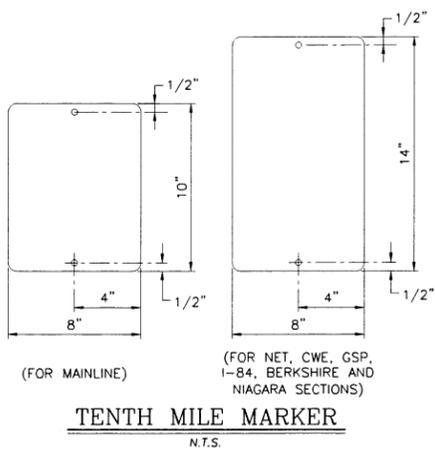
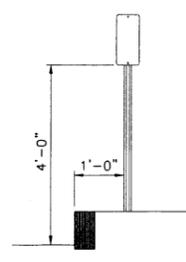


TENTH MILE MARKER AND DELINEATOR WALL MOUNT INSTALLATION DETAIL
N.T.S.



DELINEATOR VERTICAL MOUNT INSTALLATION DETAILS
N.T.S.

CURB SECTION
N.T.S.



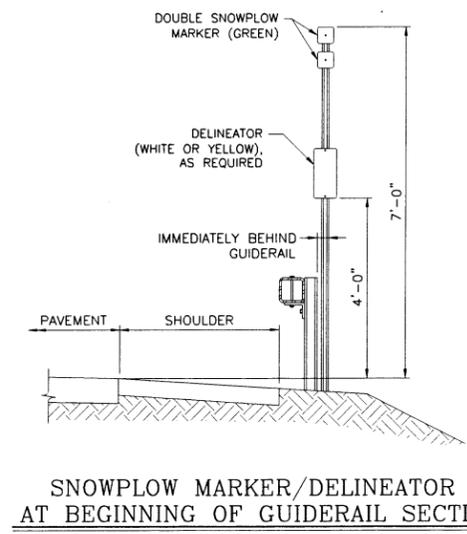
TENTH MILE MARKER
N.T.S.

SINGLE SNOWPLOW MARKER (GREEN)
N.T.S.

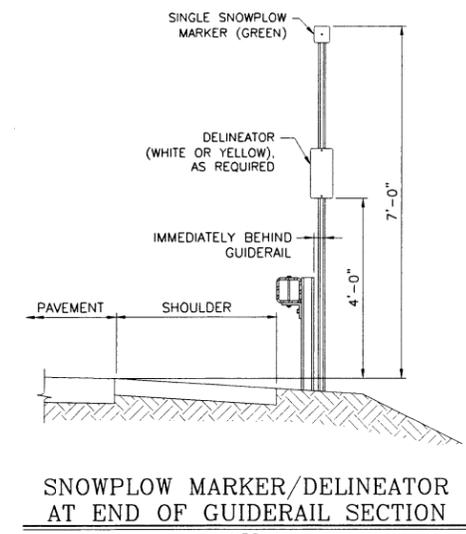
DOUBLE SNOWPLOW MARKER (GREEN)
N.T.S.

SINGLE DELINEATOR (WHITE OR YELLOW)
N.T.S.

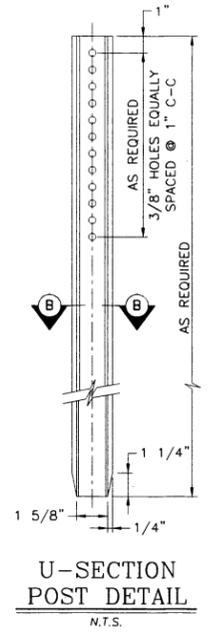
DOUBLE DELINEATOR (WHITE OR YELLOW)
N.T.S.



SNOWPLOW MARKER/DELINEATOR AT BEGINNING OF GUIDERAIL SECTION
N.T.S.



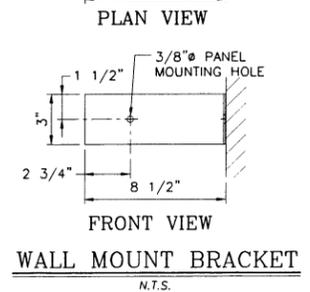
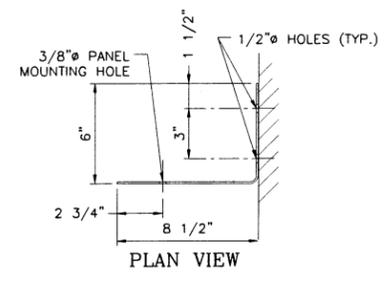
SNOWPLOW MARKER/DELINEATOR AT END OF GUIDERAIL SECTION
N.T.S.



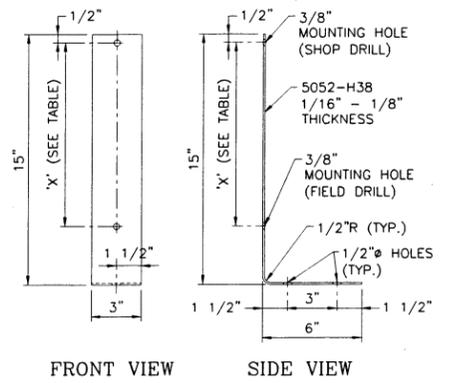
U-SECTION POST DETAIL
N.T.S.

- VERTICAL MOUNT BRACKET NOTES:
- WHEN GALVANIZED STEEL IS USED FOR BRACKETS, SPACERS THAT DO NOT INDUCE CORROSION MUST BE USED.
 - BRACKETS MAY BE USED FOR MOUNTING DELINEATORS OR REFERENCE MARKERS ON BRIDGE RAIL, GUIDE RAIL, OR AS OTHERWISE NEEDED.

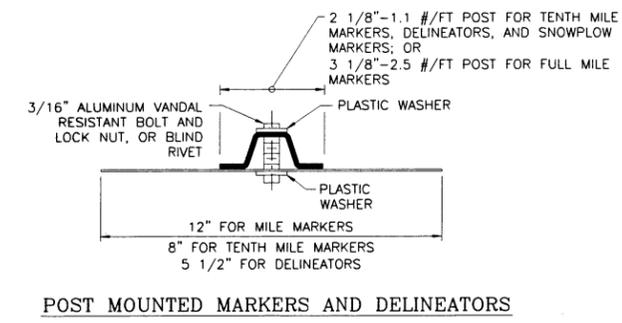
X'	DESCRIPTION
11"	FOR 5 1/2" x 12" DELINEATOR
9"	FOR 8" x 10" TENTH MILE MARKER
13"	FOR 8" x 14" TENTH MILE MARKER



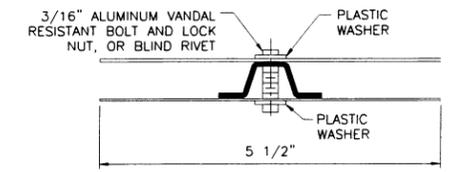
WALL MOUNT BRACKET
N.T.S.



FRONT VIEW SIDE VIEW
VERTICAL MOUNT BRACKET
N.T.S.

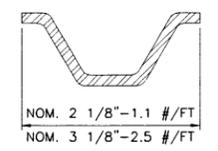


POST MOUNTED MARKERS AND DELINEATORS



BACK TO BACK DELINEATORS

SECTION A-A
N.T.S.



SECTION B-B
N.T.S.

- NOTES:
- MATERIAL SHALL CONFORM TO EITHER A.S.T.M. A-499 OR A.S.T.M. A-36.
 - GALVANIZING SHALL CONFORM TO A.S.T.M. A-123.
 - REMOVE ALL BURRS AND SHARP EDGES.

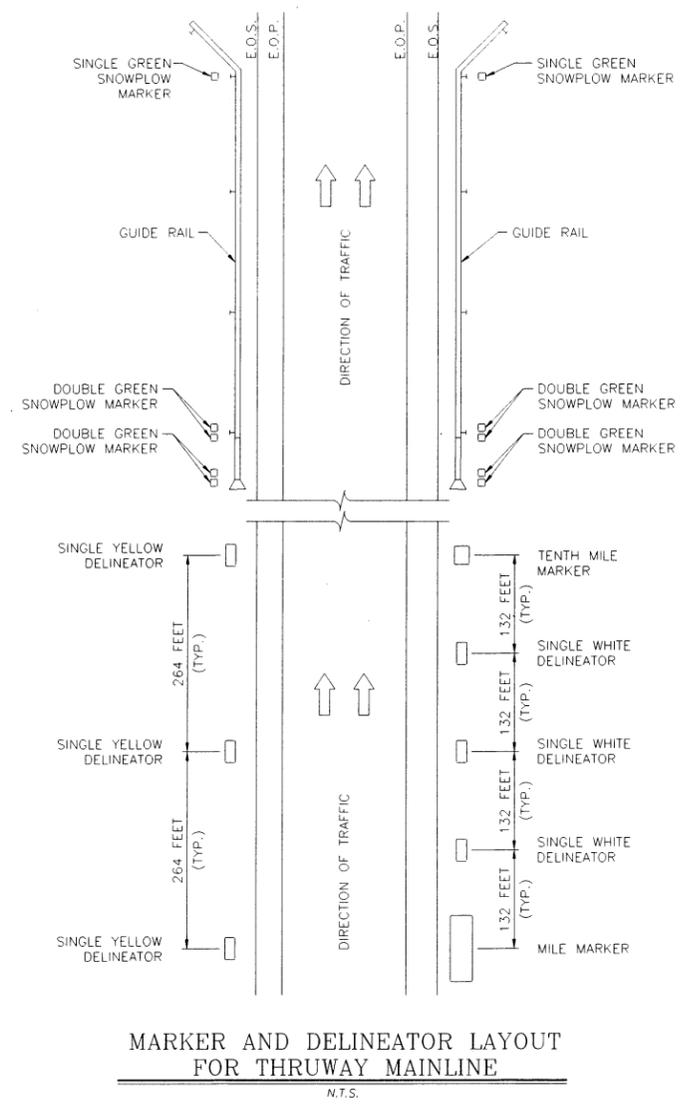
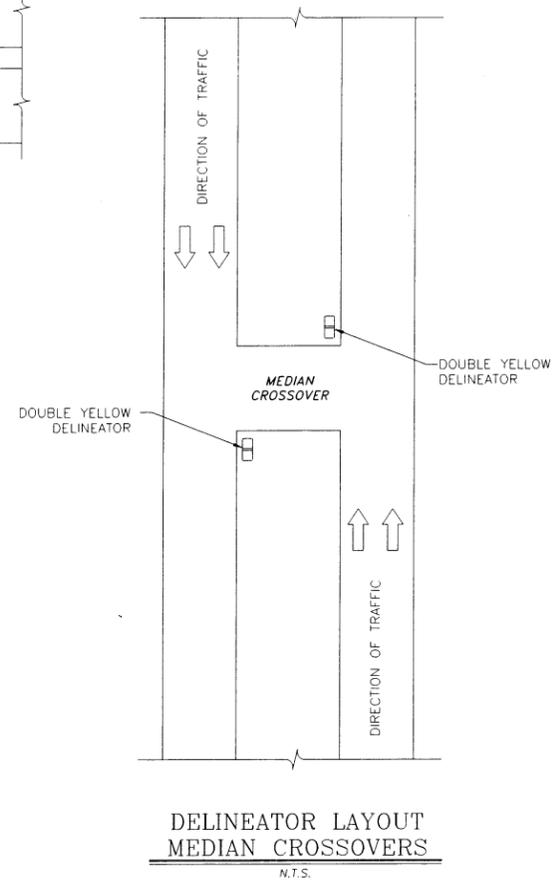
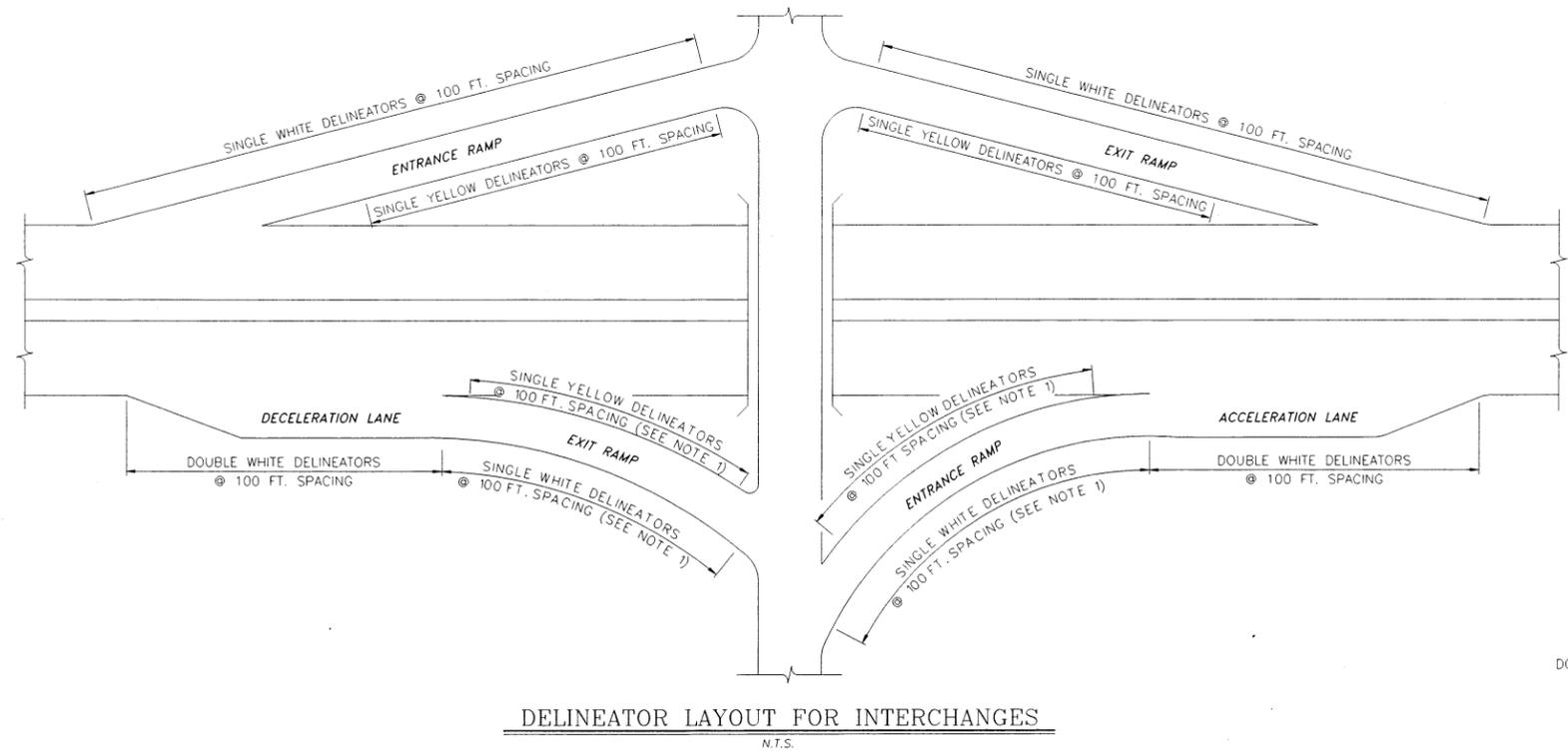
REVISIONS			
DATE	DESCRIPTION	BY	SYM.



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

TITLE OF PROJECT
ROCK REMEDIATION
LOCATION OF PROJECT
M.P. 115.0 TO M.P. 116.1
GREENE COUNTY
TITLE OF DRAWING
MILE MRKR. TENTH MILE MRKR.
DELINEATOR. AND SNOWPLOW
MARKER INSTALLATION DETAILS

CONTRACT NUMBER:
TAA 16-41
DATE:
02/13
DRAWING NUMBER:
DMM-1



NOTES:

1. THE TYPICAL SPACING OF DELINEATORS FOR INTERCHANGES IS 100 FEET. FOR LOCATIONS WHERE THE ROADWAY HAS A DEGREE OF CURVE OF 5 DEGREES OR MORE (OR A RADIUS OF CURVE OF 1000 FEET OR LESS), THE SPACING SHALL BE 50 FEET.
2. ON THRUWAY RAMPS WHERE TWO-WAY TRAFFIC IS SEPARATED BY BARRIER (CONCRETE, CORRUGATED BEAM, ETC.), BACK-TO-BACK YELLOW DELINEATORS SHALL BE INSTALLED ALONG THE BARRIER AT A SPACING OF 50 FEET.
3. SOME EXISTING MARKERS AND DELINEATORS WITHIN THE PROJECT LIMITS MAY NOT BE IN THE CORRECT LOCATIONS. THE CONTRACTOR SHALL INCLUDE IN THE PRICE BID FOR EACH RESPECTIVE MARKER AND/OR DELINEATOR THE COST TO ACCURATELY DETERMINE THE EXACT LOCATION PRIOR TO INSTALLATION. OVERHEAD AND MAINLINE STRUCTURES SHALL BE USED AS FIXED REFERENCE GUIDES FOR THE INSTALLATION. THE ENGINEER SHALL APPROVE THE EXACT LOCATIONS PRIOR TO INSTALLATION. ANY COST FOR THIS LAYOUT WORK SHALL BE INCLUDED IN THE PRICE BID FOR THE MARKERS AND/OR DELINEATORS.
4. WHERE AN EXISTING TENTH MILE MARKER FALLS WITHIN A LINE OF DOUBLE WHITE DELINEATORS, THE TENTH MILE MARKER SHALL REMAIN AT ITS PRESENT LOCATION.
5. POSTS, BANDS, BRACKETS, AND ALL NECESSARY HARDWARE ARE TO BE FURNISHED BY THE CONTRACTOR. DELINEATORS, MILE MARKERS, TENTH MILE MARKERS, AND SNOWPLOW MARKERS ARE TO BE FURNISHED BY THE AUTHORITY. THE DESIGN ENGINEER SHALL PROVIDE THE SIGN SHOP WITH DELINEATOR, MILE MARKER, TENTH MILE MARKER, AND SNOWPLOW MARKER REQUIREMENTS DURING PROJECT DESIGN AS WELL AS AN APPROXIMATE DATE WHEN NEEDED IN THE FIELD. DURING CONSTRUCTION, AT LEAST ONE MONTH PRIOR TO SCHEDULED INSTALLATION, THE ENGINEER-IN-CHARGE SHALL CONTACT THE SIGN SHOP TO CONFIRM THE DATE WHEN THE MATERIAL IS NEEDED IN THE FIELD. THE SIGN SHOP WILL PREPARE THE SHIPMENT AND ARRANGE FOR DIVISION HIGHWAY TO PICK UP THE DELINEATORS AND/OR MARKERS. THE CONTRACTOR SHALL THEN ARRANGE TO PICK UP THE DELINEATORS AND/OR MARKERS FROM DIVISION HIGHWAY. COSTS FOR PICKING UP THE DELINEATORS AND/OR MARKERS FROM DIVISION HIGHWAY ARE TO BE INCLUDED IN THE PRICE BID FOR EACH RESPECTIVE ITEM.
6. IDENTICAL MILE MARKERS FOR OPPOSITE DIRECTIONS OF TRAVEL SHALL BE LOCATED DIRECTLY ACROSS FROM EACH OTHER.
7. ON CURVES, DELINEATOR FACES SHALL BE ORIENTED TO PROVIDE OPTIMUM VISIBILITY AT NIGHT. EXACT ORIENTATION WILL VARY BASED UPON THE DEGREE OF CURVE.
8. DELINEATORS, MILE MARKERS, TENTH MILE MARKERS, AND SNOWPLOW MARKERS SHALL BE ATTACHED TO POSTS AND BRACKETS USING VANDAL RESISTANT FASTENERS. THE FASTENERS SHALL BE ALUMINUM ALLOY 6061-T6 OR 2024-T4.
9. BRACKETS SHALL BE ATTACHED TO GUIDE RAIL, BRIDGE RAIL, MEDIAN RAIL, AND MEDIAN BARRIER USING BOLTS, BLIND LOCK BOLTS, SELF-TAPPING SCREWS, EXPANDING ANCHOR BOLTS, ETC. MADE OF STAINLESS STEEL, GALVANIZED STEEL, OR ALUMINUM ALLOY 6061-T6 OR 2024-T4.
10. ALUMINUM HARDWARE OF 2024-T4 SHALL BE ALCLAD OR FINISHED WITH TYPE 206 FINISH IN ACCORDANCE WITH THE SPECIFICATIONS OF ALUMINUM ANODIC COATINGS.

DELINEATORS AND SNOWPLOWING MARKERS

11. ON ROADWAY SECTIONS WITHOUT GUIDE RAIL, RIGHT SIDE DELINEATORS SHALL BE INSTALLED 2'-0" OUTSIDE THE USABLE RIGHT SHOULDER AND LEFT SIDE DELINEATORS SHALL BE INSTALLED 2 TO 8 FEET FROM THE LEFT EDGE OF SHOULDER. (REFER TO TABLE ON DM-1.) WHERE THERE IS A CHANGE IN SHOULDER WIDTH, THE TRANSITION IN DELINEATOR PLACEMENT SHALL BE MADE GRADUALLY.
12. ON ROADWAY SECTIONS HAVING GUIDE RAIL, DELINEATORS AND SNOWPLOW MARKERS SHALL BE INSTALLED IMMEDIATELY BEHIND THE GUIDE RAIL AND BEHIND THE FRONT FACE OF THE END TREATMENT. WHERE THERE IS A CHANGE IN THE GUIDE RAIL LATERAL OFFSET, THE TRANSITION IN DELINEATOR PLACEMENT SHALL BE MADE GRADUALLY.

POST ERECTION

13. POSTS MAY EITHER BE DRIVEN OR SET. POSTS SHALL BE ERECTED TO PROVIDE THE PROPER LOCATION, LINE AND GRADE, AND TRUE VERTICAL ALIGNMENT OF THE MARKERS AND/OR DELINEATORS.

MARKER AND DELINEATOR LAYOUT FOR THRUWAY MAINLINE

14. FOR POSTS THAT ARE DRIVEN, HAND OR MECHANICAL DEVICES MAY BE USED. A SUITABLE DRIVING CAP SHALL ALSO BE USED TO PREVENT EXCESSIVE DAMAGE TO THE TOP OF THE POSTS. AFTER DRIVING, THE TOP OF THE POSTS SHALL HAVE SUBSTANTIALLY THE SAME CROSS-SECTIONAL DIMENSIONS AS THE BODY OF THE POSTS. NO BATTERED HEADS WILL BE ACCEPTED. POSTS THAT ARE BENT OR OTHERWISE DAMAGED TO THE EXTENT THAT, IN THE OPINION OF THE ENGINEER, THEY ARE UNFIT FOR USE IN THE FINISHED WORK SHALL BE REMOVED FROM THE SITE AND REPLACED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.
15. FOR POSTS THAT ARE SET, HOLES SHALL BE DUG TO THE FULL EMBEDMENT DEPTH SHOWN ON THE PLANS. AFTER SETTING THE POSTS AT THE FULL EMBEDMENT DEPTH, THE HOLES SHALL BE BACKFILLED WITH SUITABLE MATERIAL PLACED IN LAYERS OF NOT MORE THAN 6 INCHES IN DEPTH. EACH LAYER SHALL BE THOROUGHLY COMPACTED. CARE SHALL BE TAKEN DURING COMPACTION TO PRESERVE THE ALIGNMENT OF THE POST.
16. WHEN SOUND ROCK IS ENCOUNTERED, POSTS SHALL BE FOUNDED A MINIMUM OF 12 INCHES INTO SOUND ROCK. COST SHALL BE INCLUDED IN THE APPROPRIATE MARKER OR DELINEATOR ITEM.
17. FOR POSTS THAT ARE INSTALLED IN PAVED AREAS, SODDED AREAS, SIDEWALKS, ETC., DISTURBED AREAS SHALL BE RESTORED IN-KIND.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



NEW YORK STATE THRUWAY AUTHORITY DEPARTMENT OF ENGINEERING 200 SOUTHERN BLVD., ALBANY, N.Y. 12209	TITLE OF PROJECT ROCK REMEDIATION	CONTRACT NUMBER: TAA 16-41
	LOCATION OF PROJECT M.P. 115.0 TO M.P. 116.1 GREENE COUNTY	DATE: 02/13
TITLE OF DRAWING MILE MARKER, TENTH MILE MARKER, DELINEATOR, AND SNOWPLOW MARKER LAYOUT PLANS	DRAWING NUMBER: DMM-2	

ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
201.07	CLEARING AND GRUBBING	ACRE	7.4
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	111000.0
203.03	EMBANKMENT IN PLACE	CY	3900.0
203.07	SELECT GRANULAR FILL	CY	120.0
203.24000025	SHOULDER BACKUP MATERIAL	TON	1650.0
203.33120017	SCALING OF ROCK SLOPES AND REMOVAL OF SPOIL WITH OUT BLASTING	CY	1400.0
203.51 25	ESTABLISHING NEW DITCHES AND SLOPES	LF	110.0
206.0201	TRENCH AND CULVERT EXCAVATION	CY	150.0
209.1003	SEED AND MULCH - TEMPORARY	SY	29000.0
209.110201	CHECK DAM (DITCH BOTTOM WIDTH 0.0 TO 3'), GRAVEL BAG - TEMPORARY	EA	5.0
209.110202	CHECK DAM (DITCH BOTTOM WIDTH > 3' TO 6') GRAVEL BAG-TEMPORARY	EA	9.0
209.13	SILT FENCE-TEMPORARY	LF	1000.0
209.1702	DRAINAGE STRUCTURE INLET PROTECTION, GRAVEL BAG - TEMPORARY	CY	28.0
209.22	CONSTRUCTION ENTRANCE	SY	745.0
402.000013	PLANT PRODUCTION QUALITY ADJUSTMENT TO HMA ITEMS	QU	40.0
402.127203	12.5 F2 TOP COURSE HMA, 70 SERIES COMPACTION	TON	800.0
407.0102	DILUTED TACK COAT	GAL	460.0
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY	7025.0
552.17	SHIELDS AND SHORING	SF	951.0
555.0105	CONCRETE FOR STRUCTURES, CLASS A	CY	1.0
603.0101	CULVERT-END SAFETY GRATE	SF	30.0
603.6005	REINFORCED CONCRETE PIPE CLASS III, 24" DIAMETER	LF	57.0
603.7305	RCP END SECTION, 24" DIAMETER	EA	1.0
603.9701 25	REMOVAL OF EXISTING DRAINAGE STRUCTURES	EA	5.0
603.9825 25	EXTENSION CONNECTION TO EXISTING DRAINAGE SYSTEM	EA	6.0
604.302122	RECTANGULAR DRAINAGE STRUCTURE TYPE U FOR #22 WELDED FRAME	LF	41.0
606.18	MODIFIED G2 WEAK-POST, CORRUGATED BEAM GUIDE RAIL	LF	12300.0
606.180001	MODIFIED G2 WEAK-POST, CORRUGATED BEAM GUIDE RAIL (SHOP CURVED)	LF	50.0
606.22	ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING	EA	3.0

ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
606.2701	HPBO (MOD.) CORRUGATED BEAM GUIDERAILING	LF	50.0
606.5910	RESETTING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING OR MEDIAN BARRIER	EA	1.0
606.59100125	RESETTING END TERMINAL FOR HEAVY POST BLOCKED OUT CORRUGATED GUIDE RAIL AND MEDIAN BARRIER	EA	1.0
606.69100125	REMOVING AND STORING END TERMINAL FOR HEAVY POST BLOCKED OUT CORRUGATED GUIDE RAIL AND MEDIAN BARRIER	EA	1.0
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	LF	12162.5
606.7910	REMOVING AND DISPOSING ANCHORAGE UNITS FOR CORRUGATED BEAM GUIDE RAILING AND MEDIAN BARRIER	EA	3.0
606.8902	TRANSITION - HPBO (MOD) CORRUGATED BEAM GUIDE RAILING TO WEAK-POST CORRUGATED BEAM GUIDE RAILING	EA	1.0
610.1402	TOPSOIL- ROADSIDE	CY	3670.0
610.1601	TURF ESTABLISHMENT- ROADSIDE	SY	32100.0
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1.0
619.110522	PORTABLE VARIABLE MESSAGE SIGN (PVMS) STANDARD SIZE - FULL MATRIX (LED) RADAR, CELLULAR COMMUNICATIONS	EA	4.0
619.1701	TEMPORARY CONCRETE BARRIER, (UNPINNED)	LF	11000.0
619.1706 25	LINEAR DELINATION SYSTEM	LF	3750.0
619.1725 25	TEMPORARY ROCK CATCHMENT BARRIER -10 FOOT HIGH WITH WEEPS	LF	2120.0
619.24	NIGHTTIME OPERATIONS	LS	1.0
619.96 25	SPEED DISPLAY TRAILER	EA	1.0
621.03	CLEANING CLOSED DRAINAGE SYSTEMS	LF	2500.0
621.04	CLEANING DRAINAGE STRUCTURES	EA	6.0
621.05	CLEAN, GRADE AND SHAPE EXISTING ROADSIDE SECTION	LF	150.0
625.01	SURVEY OPERATIONS	LS	1.0
627.5014 08	CUTTING PAVEMENT	LF	25.0
637.12 25	ENGINEERS FIELD OFFICE -TYPE 2	MNTH	10.0
645.81	TYPE A SIGN POSTS	EA	4.0
646.0603 25	INSTALL DELINEATOR OR TENTH MILE MARKER ON POST	EA	58.0
646.0801 25	INSTALL SNOWPLOW MARKER, SINGLE UNIT	EA	2.0
646.0802 25	INSTALL SNOWPLOW MARKER, DOUBLE UNIT	EA	4.0
646.50 25	REMOVE AND DISPOSE OF DELINEATORS AND MARKERS	EA	64.0
647.31	RELOCATE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE 1, (UNDER 30 SQUARE FEET)	EA	2.0
649.2504 25	SHOULDER TREATMENT FOR ACCIDENT REDUCTION (STAR)	LF	10500.0

File
 CHECKED BY: TA
 DRAFTED BY: TA
 CHECKED BY: TA
 DESIGNED BY: TA
 DESIGN SUPERVISOR: TA

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT	CONTRACT NUMBER:
ROCK REMEDIATION	TAA 16-41
LOCATION OF PROJECT	DATE:
MP 115.0± - MP 116.1± GREENE COUNTY	10/18/16
TITLE OF DRAWING	DRAWING NUMBER:
ESTIMATE OF QUANTITIES	EQ-1

