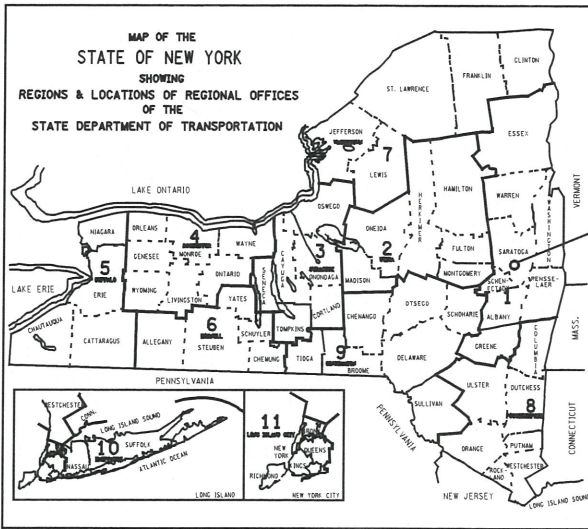


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FILE NAME = L:\MSTN Projects\1646.005.001 Clifton Park Culverts\MSTN\Bruno Road\001\_Cov.dgn  
 DATE = 3/18/2024  
 TIME = 11:59:39 AM

PROJECT MANAGER \_\_\_\_\_ DESIGN SUPERVISOR \_\_\_\_\_ DESIGNED BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_ ESTIMATED BY \_\_\_\_\_ DRAFTED BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_



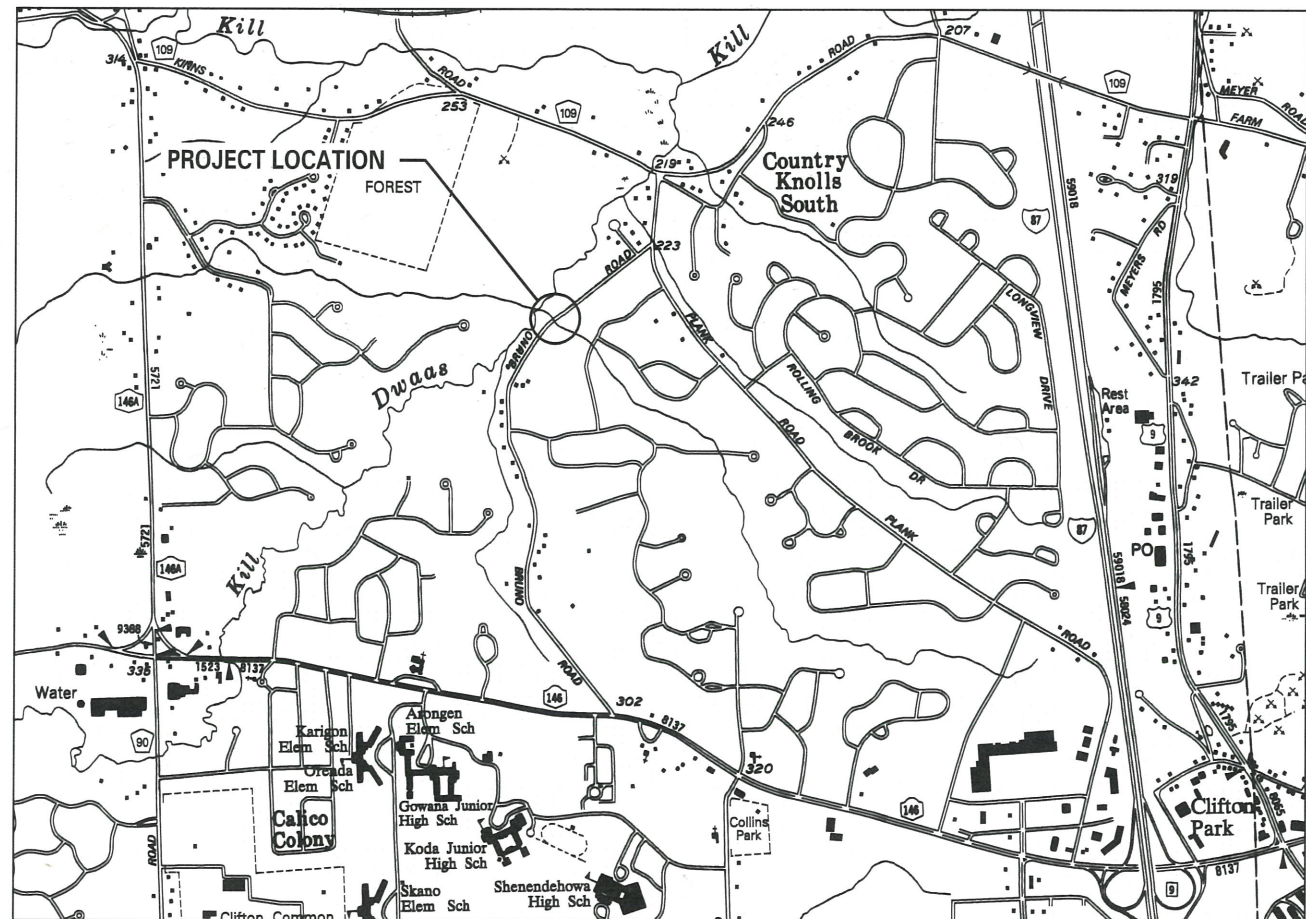
# TOWN OF CLIFTON PARK

## BRUNO ROAD CULVERT REPLACEMENT

### SARATOGA COUNTY

### MARCH 2024

35 MPH POSTED SPEED LIMIT FOR BRUNO ROAD



**PROJECT LOCATION**  
N.T.S.

THE PROJECT SITE IS LOCATED WITHIN THE TOWN OF CLIFTON PARK, SARATOGA COUNTY, NEW YORK  
 BRUNO ROAD, APPROXIMATELY 1,625 FT. WEST OF THE PLANK ROAD INTERSECTION

LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE DEPARTMENT, 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) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS.

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (US CUSTOMARY) REFERENCED IN THE CONTRACT PROJECT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT PROJECT "PROPOSAL". THESE PLANS ARE SUBMITTED IN ACCORDANCE WITH THE HIGHWAY LAW AND STANDARD SPECIFICATIONS OFFICIALLY FINALIZED AND ADOPTED ON JANUARY 1, 2024 AS POSTED ON THE DEPARTMENT'S WEBSITE.

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.\*

03/18/2024

THOMAS C. BAIRD, P.E. DATE  
NEW YORK STATE PROFESSIONAL ENGINEERS LICENSE NO. 074590

RECOMMENDED BY:

PHIL BARRETT DATE  
TOWN OF CLIFTON PARK - TOWN SUPERVISOR

PREPARED AND RECOMMENDED BY

# Barton & Loguidice

CONTRACTOR'S NAME \_\_\_\_\_

AWARD DATE \_\_\_\_\_

COMPLETION DATE \_\_\_\_\_

FINAL ACCEPTANCE DATE \_\_\_\_\_

ENGINEER IN CHARGE \_\_\_\_\_

FINAL COST TOTAL \_\_\_\_\_

FISCAL SHARE COST(S)

<b>BRUNO ROAD CULVERT REPLACEMENT</b>			
<b>TOWN OF CLIFTON PARK, SARATOGA COUNTY</b>			
FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
1	N.Y.	1	21
FEDERAL AID PROJECT NO. -			
CAPITAL PROJECT IDENTIFICATION NO. -			
INDEX ON SHEET NO. 2			

SUBSURFACE EXPLORATION	
ABBR.	DESCRIPTION
REPLACE ABBREVIATION "AB" WITH:	
AH	HAND AUGER
CP	CONE PENETROMETER
DA	60 mm CASED DRILL HOLE
DM	DRILLING MUD
DN	100 mm CASED DRILL HOLE
FH	HOLLOW FLIGHT AUGER
PA	POWER AUGER
PH	PROBE
PT	PERCOLATION TEST HOLE
RP	25 mm SAMPLER (RETRACTABLE PLUG)
	TO BE DEFINED AT THE TIME OF EXPLORATION
SP	SEISMIC POINT
TP	TEST PIT
REPLACE 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


UTILITIES	
ABBR.	DESCRIPTION
E	ELECTRIC
EMH	ELECTRIC MANHOLE
G	GAS
GP	GUY POLE
GSB	GAS SERVICE BOX (HOUSE LINE)
GV	GAS VALVE (MAIN LINE)
HYD	HYDRANT
LP	LIGHT POLE
LPG	LOW PRESSURE GAS
PP	POWER POLE
SA	SANITARY SEWER
SMH	SANITARY MANHOLE
ST	STORM SEWER
T	TELEPHONE
TCB	TRAFFIC CONTROL BOX
TELBOX	TELEPHONE BOX
TEL P	TELEPHONE POLE
TMH	TELEPHONE MANHOLE
CTV	CABLE TELEVISION
W	WATER
WSB	WATER SERVICE BOX (HOUSE LINE)
WV	WATER VALVE (MAIN LINE)

ALIGNMENT	
ABBR.	DESCRIPTION
AH	AHEAD
AZ	AZIMUTH
BK	BACK
B	BASELINE
BRG	BEARING
C	CENTERLINE
CS	CURVE TO SPIRAL
e	SUPERELEVATION RATE (CROSS SLOPE)
EQ	EQUALITY
EXT	EXTERNAL
HCL	HORIZONTAL CONTROL LINE
HSD	HEADLIGHT SIGHT DISTANCE
L	LENGTH OF CIRCULAR CURVE
LS	LENGTH OF SPIRAL
LVC	LENGTH OF VERTICAL CURVE
E	CENTER CORRECTION OF VERTICAL CURVE
M	MAIN LINE
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
POL	POINT ON LINE
PSD	PASSING SIGHT DISTANCE
PT	POINT OF TANGENT
PVC	POINT OF VERTICAL CURVE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENT
R	RADIUS
SC	SPIRAL TO CURVE
SSD	STOPPING SIGHT DISTANCE
ST	SPIRAL TO TANGENT
STA	STATION
T	TANGENT LENGTH
TGL	THEORETICAL GRADE LINE
TS	TANGENT TO SPIRAL
VC	VERTICAL CURVE

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
TB	TOP OF BANK (STREAM)
TC	TOP OF CURB
TG	TOP OF GRATE
VCP	VITRIFIED CLAY PIPE
SICPP	SMOOTH INTERIOR CORRUGATED PE

TOPOGRAPHY (MISCELLANEOUS)	
ABBR.	DESCRIPTION
ABUT	ABUTMENT
AOBE	AS ORDERED BY ENGINEER
ASPH	ASPHALT
BDY	BOUNDARY
BLDG	BUILDING
BM	BENCH MARK
CC	CENTER TO CENTER
CONC	CONCRETE
CONST	CONSTRUCTION
CR	COUNTY ROAD
D	DEED DISTANCE
DM	DIRECT MEASUREMENT
DWY	DRIVEWAY
EP	EDGE OF PAVEMENT
ES	EDGE OF SHOULDER
FEE	FEE ACQUISITION
FEE WO/A	FEE ACQUISITION WITHOUT ACCESS
FP	FENCE POST
FD	FOUNDATION
FL	FENCE LINE
GAR	GARAGE
GR	GRAVEL
HO	HOUSE
HWY	HIGHWAY
IP	IRON PIN OR IRON PIPE
MB	MAILBOX
MON	MONUMENT
N&W	NAIL AND WASHER
OG	ORIGINAL GROUND
O/H	OVERHEAD
P	PARCEL
PAV'T	PAVEMENT
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

DWG. NO.	SHEET TITLE	SHEET NO.
COV-1	COVER SHEET	1
ID-1	INDEX & ABBREVIATIONS	2
LE-1 TO LE-2	LEGENDS	3 - 4
TS-1	TYPICAL SECTION	5
GN-1	GENERAL NOTES	6
WZTC-1 TO WZTC-2	WORK ZONE TRAFFIC CONTROL NOTES	7 - 8
WZTC-3	WORK ZONE TRAFFIC CONTROL DETOUR BRUNO ROAD	9
WZTC-4	WORK ZONE TRAFFIC CONTROL DETOUR CULVERT PLAN	10
MD-1 TO MD-4	MISCELLANEOUS DETAILS	11 - 14
GP-1	BRUNO ROAD GENERAL PLAN	15
PR-1	BRUNO ROAD PROFILE	16
ST1-1	BRUNO ROAD CULVERT PLAN AND SECTION	17
ST1-2	BRUNO ROAD CULVERT SECTION AND DETAILS	18
ST1-3	RAILING DETAILS	19
W-1	WATERLINE PLAN AND PROFILE	20
I-1	ITEM LIST	21


		2	
		21	
<b>Barton &amp; Loguidice</b> <small>UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145 SECTION 7209</small>		BRUNO ROAD CULVERT REPLACEMENT TOWN OF CLIFTON PARK SARATOGA COUNTY	
INDEX & ABBREVIATIONS		SCALE: NONE	
DRAWING ID-1		DATE ISSUED: 03/2024	

ALIGNMENT			LANDSCAPE			ROADWAY		
STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION
	AC	CONTROL (CENTERLINE)		LABL	AREA, BRUSH LINE		RG	GUIDE RAIL, MISCELLANEOUS
	AD_P	DETOUR		LAHR	AREA, HEDGE ROW		RGB	GUIDE RAIL, BOX BEAM
	AT_P	TRANSITION CONTROL		LAPB	AREA, PLANTING BED		RGBM	GUIDE RAIL, BOX BEAM, MEDIAN
<b>BRIDGE</b>				LAWA	AREA, WOODED AREA OUTLINE		RGC	GUIDE RAIL, CABLE
	BR	RAIL		LAWL	AREA, WATERS EDGE		RGCB	GUIDE RAIL, CONCRETE BARRIER
	BSHT	SHEET PILING		LCUT_P	CUT LIMIT		RGP_P	GUIDE POST
<b>CONTROL</b>				LFILL_P	FILL LIMIT		RGW	GUIDE RAIL, W BEAM
	CB	BASELINE		LFNC	FENCE		RGWM	GUIDE RAIL, W BEAM, MEDIAN
	CBPR	BASELINE, PROJECTION		LTRC	TREE ROW, CONIFEROUS		RPB	PARKING BUMPER
<b>DRAINAGE</b>				LTRD	TREE ROW, DECIDUOUS		RRC	RAIL ROAD, CATENARY
	DCP	CULVERT PIPE		LWH	WALL, H PILE		RRER	RAIL ROAD, 3RD RAIL
	DCP_P	CULVERT PIPE (DIR)		LWR	WALL, RETAINING		RRPLS_P	RAIL, PHOTO, LARGE SCALE
	DDG_P	DITCH, GRASS LINED		LWS	WALL, STONE		RRPSS	RAIL, PHOTO, SMALL SCALE
	DDP_P	DITCH, PAVED INVERT	<b>ROW MAPPING</b>				RRS	RUMBLE STRIP
	DDS_P	DITCH, STONE LINED		MDL	DEED LINE		RRSL_S_P	RAIL, SURVEY, LARGE SCALE
	DFL_P	FLOW LINE		MEE	EASEMENT, EXISTING		RRSS	RAIL, SURVEY, SMALL SCALE
	DSSD	SLOTTED DRAIN		MEP_P	EASEMENT, PERMANENT	<b>STRIPING</b>		
<b>ENVIRONMENTAL</b>				MEPA_P	EASEMENT, PERMANENT, APPROX.		STB*	BROKEN LINE
	EBLHS	BALE, HAY/STRAW		MET_P	EASEMENT, TEMPORARY		STDB*	DOUBLE BROKEN LINE
	ECT	CURTAIN, TURBIDITY		META_P	EASEMENT, TEMPORARY, APPROX.		STD*	DOTTED LINE LONG
	EDMC	DAM, COFFER TYPE		FEE	FEE ACQUISITION, W/ ACCESS		STD*	DOTTED LINE SHORT
	EDMEC_P	DAM, EARTHEN, CHECK		AFEE	FEE ACQUISITION, APPROXIMATE		STFB*	FULL BARRIER LINE
	EDMPC_P	DAM, PREFAB, CHECK		MFS_P	FEE ACQUISITION, SHAPE		STH*	HATCH LINE
	EDMSC_P	DAM, STONE, CHECK		MFWOA_P	FEE ACQUISITION, W/O ACCESS		STPB*	PARTIAL BARRIER LINE
	EFNS	FENCE, SILT		HB	HIGHWAY BOUNDARY		STRCT	ROUNDAABOUT, CAT TRACKS
	EFNSV	FENCE, SILT & VEGETATION		AHB	HIGHWAY BOUNDARY, APPROX.		STRYL	ROUNDAABOUT, YIELD LINE
	EFNV	FENCE, VEGETATION		MHB	HIGHWAY BOUNDARY		STSB	STOP BAR
	EWAA_P	WETLAND, ADJACENT AREA		MHBW	HIGHWAY BOUNDARY, FACE OF WALL		STSE	SOLID, EDGE
	EWF	WETLAND, FEDERAL		MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS		STXL*	X WALK, LADDER LINE
	EWFS	WETLAND, FEDERAL AND STATE		MJC	JURISDICTION, CITY			* = W (WHITE) OR Y (YELLOW)
	EWM	WETLAND, MITIGATION AREA		MJCY	JURISDICTION, COUNTY	<b>TRAFFIC CONTROL</b>		
	EWS	WETLAND, STATE		MJHD	JURISDICTION, HISTORIC DISTRICT		TCSW	SIGNAL, SPAN WIRE
<b>SIGNS</b>				MJLL	JURIS., (GREAT, MILITARY) LOT LINE	<b>TRAFFIC MAINTENANCE</b>		
	SBLB	BILLBOARDS		MJN	JURISDICTION, NATION		TMBCD_P	BARRICADES
	SM	MULTIPLE POST		MJPB	JURISDICTION, PUBLIC LANDS		TMBCDL_P	BARRICADES, LIGHTED
	SSO	STRUCTURE, OVERHEAD		MJS	JURISDICTION, STATE		TMBT_P	BARRIER, TEMPORARY
	SSOC	STRUCTURE, OVHD. CANTILEVER		MJT	JURISDICTION, TOWN		TMBTL_P	BARRIER, TEMPORARY, LIGHTED
				MJV	JURISDICTION, VILLAGE		TMDB_P	DEVICE, BARRELS
				MPL	PROPERTY LOT LINE		TMDBL_P	DEVICE, BARRELS, LIGHTED
				MPLA	PROPERTY LOT LINE, APPROXIMATE		TMDC_P	DEVICE, CONES
				MSL	SUB LOT LINE	<b>UTILITIES</b>		
							UC	CONDUIT, UNDERGROUND
							UCH	CONDUIT, HANGING
							UCO	CONDUIT, OVERHEAD
							UE	ELECTRIC LINE, UNDERGROUND
							UEH	ELECTRIC LINE, HANGING
							UEO	ELECTRIC LINE, OVERHEAD
							UETO	ELECTRIC TRANSMISSION, 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 (0.40 MM 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.

UTILITIES CONT'D.		
STYLE	NAME	DESCRIPTION
	UESS	ELECTRIC, SUBSTATIONS
	UFO	FIBER OPTIC, UNDERGROUND
	UFOH	FIBER OPTIC, HANGING
	UFOO	FIBER OPTIC, OVERHEAD
	UG	GAS, UNDERGROUND
	UGH	GAS, HANGING
	UGO	GAS, OVERHEAD
	UIC	INFORM CABLE, UNDERGROUND
	UICH	INFORM CABLE, HANGING
	UO	OIL LINE, UNDERGROUND
	UOH	OIL LINE, HANGING
	UPBP	POLE, BRACE, PUSH BRACE
	UPBW	POLE, GUY WIRE
	USA	SANITARY SEWER, UNDERGROUND
	USAH	SANITARY SEWER, HANGING
	USAF	SANITARY SEWER, FORCE MAIN, UGND
	USAFH	SANITARY SEWER, FORCE MAIN, HANG
	UT	TELEPHONE, UNDERGROUND
	UTH	TELEPHONE, HANGING
	UTO	TELEPHONE, OVERHEAD
	UTV	CABLE TV, UNDERGROUND
	UTVH	CABLE TV, HANGING
	UTVO	CABLE TV, OVERHEAD
	UUU	UNKNOWN, UNDERGROUND
	UUH	UNKNOWN, HANGING
	UUO	UNKNOWN, OVERHEAD
	UW	WATER LINE, UNDERGROUND
	UWH	WATER LINE, HANGING
	UWO	WATER LINE, OVERHEAD

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**Barton & Loguidice**

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BRUNO ROAD  
CULVERT REPLACEMENT

TOWN OF CLIFTON PARK

SARATOGA COUNTY

LEGEND - 1

SCALE: NONE  
 DATE ISSUED: 03/2024  
 DRAWING: LE-1


IN CHARGE OF TCB DESIGNED BY DUG/PJC CHECKED BY TCB DRAFTED BY DUG/PJC CHECKED BY PJC

ROW MAPPING			ALIGNMENT			BRIDGE			ROADWAY			ITS			UTILITIES		
CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION
⊕	MDL1P	DEED LINE, TYPE 1	⊗	ACC	CENTER OF CURVATURE	□	BSC	BRIDGE, SCUPPER	⊖	RES_P	ELEVATION, SPOT	⊕	IANT_P	ANTENNAS	⊞	UEB	ELECTRIC, BOX
⊗	MDL2P	DEED LINE, TYPE 2	+	ACOG0	COGO	<b>DRAINAGE</b>			⊗	RGA	GUIDE RAIL, ANCHOR	⊞	IASCTS	ACCOU. SPEED/COUNT SNSR.S	⊞	UEM	ELECTRIC, METER
⊗	MDL3P	DEED LINE, TYPE 3	⊗	ACS	CURVE TO SPIRAL				+	DINV	INVERT	○	RGP	GUIDE POST, SINGLE	⊞	ICABPAD	CABINET & PAD
⊗	MDL4P	DEED LINE, TYPE 4	△	ADPI_P	DETOUR, POINT OF INTERSECT.	+	DS	STRUCTURE, RECTANGULAR	<b>SIGNS</b>			⊞	ICCTV	CCTV SITE	⊞	UEPT	ELECTRIC, POLE, TRANS.
⊗	MDL5P	DEED LINE, TYPE 5	○	ADPL_P	DETOUR, POINT ON LINE	+	DSI	STRUCTURE, INVERT				⊞	S	SINGLE POST	⊞	ICDPD	CDPD TRANSCEIVER
⊗	MEEP	EASEMENT, EXISTING	○	AEQN	EQUATION	⊗	DSM	STRUCTURE, MANHOLE	⊞	S_P	SINGLE POST, PROPOSED	⊞	ICELLT	CELL PHONE TOWER	⊞	UGMH	GAS, MANHOLE
⊗	MEPAP_P	EASEMENT, PERM., APPROX.	⊗	AEQNAHD	EQUATION AHEAD	⊗	DSMTXX_P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = F, G, N, O, P, R	⊞	SB_P	BACK TO BACK, PROPOSED	⊞	ICJB	CONDUIT JACK OR BORING	⊞	UGLM	GAS, LINE MARKER
⊗	MEPP_P	EASEMENT, PERM., BACK LINE	⊗	AEQNBK	EQUATION BACK	⊗	DSR	STRUCTURE, ROUND	⊞	SDEL	DELINEATORS	⊞	ICNTLCAB	CONTROLLER CABINET	⊞	UGP	GAS/FUEL PUMP
⊗	MEPSP_P	EASEMENT, PERM., SHAPE	○	AEVT	EVENT STATION	⊗	DST"X"CB_P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = I, K, L, M, O, P, U	⊞	SPM	PARKING METER	⊞	ICPB	COMMUNICATION PULL BOX	⊞	UGV	GAS, VALVE
⊗	MFAP_P	FEE ACQUISITION, APPROX.	⊗	APC	POINT OF CURVATURE	⊗	DST"X"CB_P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = I, K, L, M, O, P, U	⊞	SRM	REFERENCE MARKERS	⊞	ICTD	CONDUIT TURNING DOWN	⊞	UGVT	GAS, VENT
⊗	MFP_P	FEE ACQUISITION, BACK LINE	○	APCC	POINT OF COMPOUND CURVATURE	⊗	DST"X"CB_P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = I, K, L, M, O, P, U	⊞	SRSC3	SHLD, CTY, 123 DIG.	⊞	ICTU	CONDUIT TURNING UP	⊞	ULP	LIGHTING, POLE
⊗	MFSP_P	FEE ACQUISITION, SHAPE	△	API	POINT OF INTERSECTION	<b>ENVIRONMENTAL</b>			⊞	SRSC4	SHLD, CTY, 4 DIG.	⊞	ICVTRT	COMM. VEH. ROAD TRANSCVR.	⊞	ULPM	LIGHTING, POLE, MEDIAN
⊗	MHBAP	HIGHWAY BNDRY., APPROX.	△	APOB	POINT OF BEGINNING				⊞	SRSC2	SHLD, CTY TOUR, 1-2 DIG.	⊞	SRSC4	SHLD, CTY, 4 DIG.	⊞	IDEFAULT	DEFAULT
⊗	MHBCP	HISTORICAL, BLDG. CORNERS	○	APOC	POINT OF CURVATURE	⊞	SRSC4	SHLD, CTY TOUR, 3-4 DIG.	⊞	SRSC2	SHLD, CTY TOUR, 1-2 DIG.	⊞	IEZR	EZ-PASS READER	⊞	UMFC	MISC. FILLER CAP
⊗	MHBP	HIGHWAY BNDRY, PT.	△	APOE	POINT OF END	⊞	SRSC4	SHLD, CTY TOUR, 3-4 DIG.	⊞	SRSC4	SHLD, CTY TOUR, 3-4 DIG.	⊞	IEZTR	TRANSMITTAL READER	⊞	UOLM	OIL, LINE MARKER
⊗	MJCP	PT., JURIS. CITY	○	APOL	POINT ON LINE	⊞	SRS1	SHLD, INTERSTATE	⊞	SRS1	SHLD, INTERSTATE	⊞	IFXCAB	FIBER OPTIC X-CONNECT CAB.	⊞	UP	POLE, WITH UTILITY
⊗	MPBC	PT., BUILDING CORNER	○	APOS	POINT ON SPIRAL	⊞	SRS2	SHLD, NATIONAL, 2 DIG.	⊞	SRS2	SHLD, NATIONAL, 2 DIG.	⊞	IFUSSPL	FUSION SPLICE	⊞	UPD	POLE, DEAD (NO UTILITY)
⊗	MPCC	PT., CROSS CUT	○	APOT	POINT ON TANGENT	⊞	SRS3	SHLD, NATIONAL, 3 DIG.	⊞	SRS3	SHLD, NATIONAL, 3 DIG.	⊞	IHARADV	HAR ADVISORY SIGN	⊞	UPL	POLE, WITH LIGHT
⊗	MPDH	PT., DRILL HOLE	△	APOVC	POINT ON VERTICAL CURVE	⊞	SRS2	SHLD, STATE, 2 DIG.	⊞	SRS2	SHLD, STATE, 2 DIG.	⊞	IHARST	HAR SITE	⊞	USMH	SANITARY SEWER MANHOLE
⊗	MPF	PT., FENCE LOCATION	△	APOVT	POINT ON VERTICAL TANGENT	⊞	SRS3	SHLD, STATE, 3 DIG.	⊞	SRS3	SHLD, STATE, 3 DIG.	⊞	ILC	LOAD CENTER	⊞	UTB	TELEPHONE, BOOTH
⊗	MPIP	PT., IRON PIPE	Y	APORC	POINT ON REVERSE CURVE	⊞	SRS4	SHLD, STATE, 4 DIG.	⊞	SRS4	SHLD, STATE, 4 DIG.	⊞	IMECSPL	MECHANICAL SPLICE	⊞	UTLM	TELEPHONE, LINE MARKER
⊗	MPIR	PT., IRON ROD	⊗	APT	POINT OF TANGENCY	<b>TRAFFIC</b>			⊞	TCBJ	BOX, JUNCTION	⊞	IMSCS	PORT. SPEED & COUNT SENS	⊞	UTMH	TELEPHONE, MANHOLE
⊗	MPM	PT., MONUMENT	⊗	APVC	POINT OF VERTICAL CURVATURE				⊞	TCBP	BOX, PULL BOX	⊞	TCBP	BOX, PULL BOX	⊞	IMSCTS	MICRO SPEED & COUNT SNSR.
⊗	MPMM	PT., MONUMENT, MISC.	△	APVCC	POINT OF VERT. CMPND CURVE	⊞	TCBS	BOX, SPLICE	⊞	TCBS	BOX, SPLICE	⊞	IMT	MICROWAVE TRANSCEIVER	⊞	UTVPB	CABLE TV, PULL BOX
⊗	MPN	PT., NAIL	⊗	APVI	POINT OF VERT. INTERSECTION	⊞	TCMC	MICROCOMPUTER CABINET	⊞	TCMC	MICROCOMPUTER CABINET	⊞	IOVHMS	PERM. OVERHEAD VMS	⊞	UUB	UNKNOWN, BOX
⊗	MPRS	PT., RAILROAD SPIKE	△	APVRC	POINT OF VERT. REVERSE CURVE	⊞	TCPP	PED POLE	⊞	TCPP	PED POLE	⊞	IPASCS	PORT. ACC. SPD & CNT SNSR.	⊞	UUB	UNKNOWN, BOX
⊗	MPSP	PT., SPIKE	⊗	APVT	POINT OF VERTICAL TANGENCY	⊞	TCSH	SIGNAL HEADS	⊞	TCSH	SIGNAL HEADS	⊞	IPEDS	PEDESTRIAN SIGNAL HEAD	⊞	UUB	UNKNOWN, BOX
⊗	MPST	PT., STAKE	⊗	ASC	SPIRAL TO CURVE	⊞	TCSP	SIGNAL POLE	⊞	TCSP	SIGNAL POLE	⊞	IPSS	PAVEMENT SURFACE SNSR.	⊞	UUB	UNKNOWN, BOX
⊗	MPTW	PT., TREE W/ WIRE	△	ASPI	SPIRAL POINT OF INTERSECTION	<b>GEOTECHNICAL</b>			⊞	IRM	RAMP METER	⊞	IPVMS	PERM. VMS	⊞	UUB	UNKNOWN, BOX
⊗	MPWL	PT., WALL LOCATION	○	ASTS	SPIRAL TO SPIRAL				⊞	IRWIS	RDWY WEATHER INFO. SNSR.	⊞	IRWIS	RDWY WEATHER INFO. SNSR.	⊞	IRVMS	PERM. VMS
			⊗	AST	SPIRAL TO TANGENT	<b>LANDSCAPE</b>			⊞	ISP	SOLAR PANEL	⊞	IRVMS	PERM. VMS	⊞	UUB	UNKNOWN, BOX
			⊗	ATS	TANGENT TO SPIRAL				CELL	NAME	DESCRIPTION	⊞	ISST	SPREAD SPECT. TRANSCEIVER	⊞	IRVMS	PERM. VMS
			△	AVEVT	VERTICAL EVENT POINT	+	LELS	ELEVATION, SPOT	⊞	ITDB	TELEPHONE DEMARCATION BLK	⊞	IRVMS	PERM. VMS	⊞	UUB	UNKNOWN, BOX
			○	AVHIGH	VERTICAL HIGH POINT	⊞	LFP	FLAG POLE	⊞	ITP	SUBSURFACE TEMP. PROBE	⊞	IRVMS	PERM. VMS	⊞	UUB	UNKNOWN, BOX
			○	AVLOW	VERTICAL LOW POINT	⊞	LMB	MAILBOX	⊞	IVTRT	VEHICLE TO RDWY TRANCEIVER	⊞	IRVMS	PERM. VMS	⊞	UUB	UNKNOWN, BOX
			<b>CONTROL</b>			⊞	LPB	PAPER BOX	<b>ROW ACQUISITION</b>								
						⊞	LPST	POST, SINGLE									
			△	CBP	BASELINE, POINT	⊞	LRB	ROCK, BOULDER	⊞	IWIMD	WEIGHT IN MOTION DETECTOR	⊞	IRVMS	PERM. VMS	⊞	UUB	UNKNOWN, BOX
			○	CBPOL	BASELINE, POINT ON LINE	⊞	LSHC	SHRUB, CONIFEROUS	⊞	IWVR	WIRELESS VIDEO REPEATER	⊞	IRVMS	PERM. VMS	⊞	UUB	UNKNOWN, BOX
			⊗	CBSP	BASELINE, SPUR POINT	⊞	LSHD	SHRUB, DECIDUOUS	⊞	IWVRC	WIRELESS VIDEO RECEIVER	⊞	IRVMS	PERM. VMS	⊞	UUB	UNKNOWN, BOX
			⊗	CBTP	BASELINE, TIE POINT	⊞	LTC	TREE, CONIFEROUS	⊞	IWVTT	WIRELESS VIDEO TRANSMITTER	⊞	IRVMS	PERM. VMS	⊞	UUB	UNKNOWN, BOX
			⊞	CPBM	BENCHMARK	⊞	LTD	TREE, DECIDUOUS	⊞			⊞	IRVMS	PERM. VMS	⊞	UUB	UNKNOWN, BOX
			⊞	CPH	POINT, HORIZ. PHOTOGRAMMETRY	⊞	LTS	TREE, STUMP	⊞			⊞	IRVMS	PERM. VMS	⊞	UUB	UNKNOWN, BOX
			⊞	CPSM	POINT, SURVEY MARKER, PERM.	⊞	LTW_P	TREE, WELL OR WALL	⊞			⊞	IRVMS	PERM. VMS	⊞	UUB	UNKNOWN, BOX
			⊞	CPSV	POINT, VERT., PHOTOGRAMMETRY	+	LUKP	UNKNOWN POINT	⊞			⊞	IRVMS	PERM. VMS	⊞	UUB	UNKNOWN, BOX

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 (0.40 MM 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.

CELL	NAME	DESCRIPTION
⊞	MFS_P_T	FEE ACQUISITION
⊞	MEPS_P_T	EASEMENT, PERMANENT
⊞	METS_P_T	EASEMENT, TEMPORARY
⊞	METS_P_T	OCCUPANCY, TEMPORARY
⊞	MFS_P_T	FEE ACQUISITION W/O ACCESS

4  
21



**Barton & Loguidice**

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BRUNO ROAD  
CULVERT REPLACEMENT

TOWN OF CLIFTON PARK

SARATOGA COUNTY

LEGEND - 2

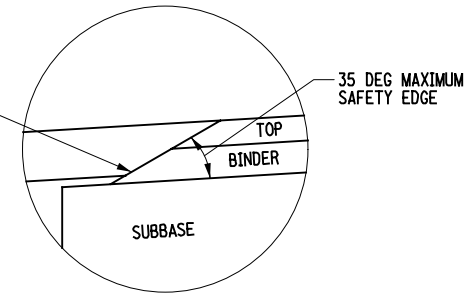
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 DRAWING: LE-2

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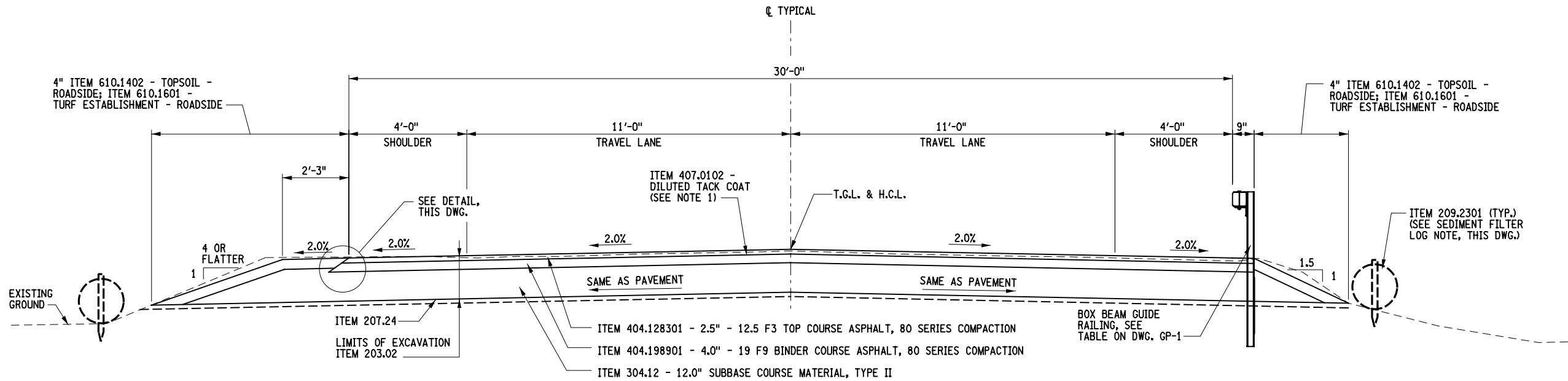
IN CHARGE OF TCB DESIGNED BY DUG/PJC CHECKED BY TCB DRAFTED BY DUG/PJC CHECKED BY PJC

SAFETY EDGE MUST BE MACHINE FORMED DURING THE ASPHALT PLACEMENT PROCESS BY USE OF AN ADAPTER TO THE PAVING SCREED. RAKED IN EDGES WILL NOT BE ACCEPTED.



**SAFETY EDGE DETAIL**  
NTS

**SEDIMENT FILTER LOG NOTE:**  
SEDIMENT FILTER LOGS ARE TO BE INSTALLED AT THE SAME ELEVATION (LEVEL). THEY ARE NOT TO BE INSTALLED ACROSS CONTOURS OF UNEQUAL ELEVATION AND ARE TO BE REMOVED AFTER TURF ESTABLISHMENT.



**TYPICAL SECTION NO. 1**  
**BRUNO ROAD TYPICAL SECTION**  
N.T.S.  
STA. B 14+25.50 TO STA. B 16+04.50

PREPARED BY: BARTON & LOGUIDICE, D.P.C.  
ON: MARCH 18, 2024



ITEM NO.	DESCRIPTION	UNITS	ITEM NO.	DESCRIPTION	UNITS	NOTES
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY				1. TACK COAT SHALL BE APPLIED BETWEEN ALL LIFTS OF ASPHALT AND ON FACES OF ASPHALT EXCAVATION. 2. SEE NOTES ON DWG. GN-1 FOR ITEM 610.1601 SEED MIX TO BE USED WITHIN AND OUTSIDE OF DELINEATED WETLAND AREAS. 3. LIMITS FOR ESTABLISHING TURF AND TOPSOIL SHALL BE FROM THE OUTSIDE EDGE OF SHOULDER TO THE POINT WHERE THE PROPOSED WORK MEETS THE EXISTING GROUND.
207.24	GEOTEXTILE STABILIZATION	SY				
209.2301	SEDIMENT FILTER LOG - TEMPORARY, 12"	LF				
304.12	SUBBASE COURSE, TYPE II	CY				
404.128301	12.5 F3 TOP COURSE ASPHALT, 80 SERIES COMPACTION	TON				
404.198901	19 F9 BINDER COURSE ASPHALT, 80 SERIES COMPACTION	TON				
407.0102	DILUTED TACK COAT	GAL				
610.1402	TOPSOIL - ROADSIDE	CY				
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY				



**Barton & Loguidice**

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BRUNO ROAD  
CULVERT REPLACEMENT  
TOWN OF CLIFTON PARK  
SARATOGA COUNTY

TYPICAL SECTION

SCALE: AS SHOWN

DATE ISSUED: 03/2024

DRAWING

TS-1

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IN CHARGE OF TCBCHECKED BY DUG / PUCDESIGNED BY DUG / PUC  
 DRAFTED BY TCBCHECKED BY DUG / PUC  
 CHECKED BY PUC

**DEFINITION**

THE WORDS "SHALL", "SHOULD", AND "MAY", AS USED IN THE CONTRACT DOCUMENTS, HAVE THE FOLLOWING MEANINGS:

**SHALL** - A MANDATORY CONDITION. IN THE DESIGN, APPLICATION, OR LOCATION OF DEVICES, REQUIREMENTS HAVING "SHALL" STIPULATIONS ARE MANDATORY. NO DISCRETION IN FOLLOWING THEM IS ALLOWED.

**SHOULD** - AN ADVISORY CONDITION. WHERE "SHOULD" IS USED IN RELATION TO A PROVISION, THAT PROVISION IS RECOMMENDED, AND NORMALLY IS TO BE FOLLOWED, BUT IS NOT MANDATORY. DEVIATION FROM SUCH PROVISIONS IS PERMISSIBLE IF, AND TO THE EXTENT THERE IS JUSTIFIABLE CAUSE TO DO SO.

**MAY** - A PERMISSIVE CONDITION. NO REQUIREMENTS FOR DESIGN OR APPLICATION IS INTENDED.

**DRAINAGE FACILITIES**

THE CONTRACTOR SHALL BECOME FAMILIARIZED WITH DRAINAGE CHARACTERISTICS OF THE AREA SO THAT THEY MAY PROGRESS THEIR WORK EFFICIENTLY WITH FULL KNOWLEDGE OF THE POTENTIAL DRAINAGE ISSUES.

**SURVEY**

1. THE CONTRACTOR SHALL PROVIDE SURVEY AND STAKEOUT, AS REQUIRED, AND IN ACCORDANCE WITH ITEM 625.01 OF THE STANDARD SPECIFICATIONS. COST FOR THIS WORK SHALL BE INCLUDED UNDER ITEM 625.01.

**RESTORING DISTURBED AREAS**

1. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO A CONDITION APPROVED BY THE ENGINEER.

2. THE RESTORATION OF DISTURBED AREAS SHALL BE ACCOMPLISHED AS SPECIFIED UNDER SECTIONS 107-08 OF THE STANDARD SPECIFICATIONS AND APPLICABLE ADDENDUMS.

**UTILITIES**

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. IN THE EVENT THE CONTRACTOR DAMAGES AN EXISTING UTILITY SERVICE CAUSING AN INTERRUPTION IN SAID SERVICE, HE SHALL IMMEDIATELY COMMENCE WORK TO RESTORE SERVICE IN COORDINATION WITH THE OWNER OF THE UTILITY AFFECTED, AND MAY NOT CEASE HIS WORK OPERATION UNTIL SERVICE IS RESTORED.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES ENCOUNTERED IN THE WORK COMPLETED UNDER THIS CONTRACT. WHERE NECESSARY, THE CONTRACTOR SHALL PROVIDE TIMBER, PLANK OR OTHER APPROVED MATERIALS AND SECURELY BRACE AND PROTECT THESE UTILITIES.

3. DURING UTILITY RELOCATION WORK, THE CONTRACTOR SHALL COOPERATE IN EVERY WAY WITH THE UTILITY OWNER, AND SHALL SCHEDULE WORK IN SUCH A WAY AS TO COMPLY WITH SHUT DOWN TIMES AND ANY OTHER REQUIREMENTS OF THE UTILITY OWNER. NO ADDITIONAL PAYMENT SHALL BE MADE FOR ANY COST INCURRED DUE TO COMPLYING WITH UTILITY OWNER'S REQUIREMENTS. SUCH COSTS SHALL BE INCLUDED IN THE PRICE BID FOR VARIOUS ITEMS IN THE CONTRACT.

**PROJECT COORDINATION**

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH OTHER PROJECTS IN THE AREA.

**CLEARING AND GRUBBING NOTES:**

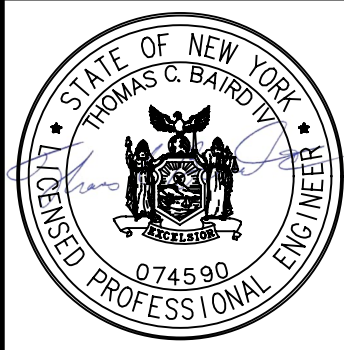
1. WORK UNDER ITEM 201.06, CLEARING AND GRUBBING, SHALL INCLUDE, BUT NOT LIMITED TO CLEARING OF TREES, GRUBBING STUMPS AND UNDERSTORY VEGETATION.

**VEGETATION GROWTH AND CARE**

1. THE CONTRACTOR SHALL INSTALL GRASS SEED IN ACCORDANCE WITH ITEM 610.1601. THE CONTRACTOR SHALL USE TYPE A GENERAL ROADSIDE SEED MIX. PLACEMENT OF THE ROADSIDE SEED MIX SHALL BE LIMITED TO LOCATIONS OUTSIDE OF THE DELINEATED WETLAND BOUNDARY AS SHOWN ON DWG. GP-1.

2. THE CONTRACTOR SHALL INSTALL ERNST FACW WETLAND MEADOW MIX (ITEM NUMBER ERNMX-122) OR APPROVED EQUAL AS APPROVED BY THE ENGINEER. THIS SEED MIX SHALL BE PLACED IN LOCATIONS DISTURBED WITHIN THE DELINEATED WETLAND BOUNDARY SHOWN ON DWG. GP-1.

PREPARED BY: BARTON & LOGUIDICE, D.P.C.  
 ON: MARCH 18, 2024



**ENVIRONMENTAL NOTES:**

1. DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS, AND OTHER MATERIAL IN ANY WATERWAY, CHANNEL OR SIDE POOL EXCEPT WHERE THE PLANS SPECIFICALLY PERMIT THE DROPPING OF MATERIAL. PLATFORMS, NETS, SCREENS, OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.

2. THERE ARE NO LOCATIONS WITHIN THE PROJECT LIMITS FOR THE DISPOSAL OF CONSTRUCTION DEBRIS OR SPOILS.

3. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PREVENT THE ENTRANCE OF FRESH CONCRETE INTO THE WATERS OF NEW YORK STATE. EQUIPMENT, TOOLS, AND TRUCKS USED IN THIS PROJECT SHALL BE CLEANED IN SUCH A MANNER AS TO PREVENT WASH WATER FROM ENTERING ANY WATER BODY. WET CONCRETE IS HIGHLY TOXIC TO FISH.

4. SPILLAGE OF OIL AND HAZARDOUS SUBSTANCES IS ESPECIALLY PROHIBITED BY SECTION 311 OF THE CLEAN WATER ACT OF 1977. MEASURES INCLUDING PROPER MAINTENANCE OF CONSTRUCTION EQUIPMENT, DESIGNATING FUEL/HAZARDOUS SUBSTANCES, HANDLING AREAS TO ALLOW SPILLS TO BE CONTAINED BEFORE REACHING THE WATERWAY, INSTRUCTING PERSONNEL NOT TO DISPOSE OF OIL AND OTHER SUCH MATERIALS INTO DRAINS OR INTO THE WATERWAY DIRECTLY, AND OTHER NECESSARY PROCEDURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION ACTIVITIES. IF, IN SPITE OF SUCH PLANNING, OIL/HAZARDOUS SUBSTANCES ARE SPILLED INTO A WATERCOURSE, IMMEDIATE NOTIFICATION SHALL BE GIVEN TO THE N.Y.S. DEPARTMENT OF ENVIRONMENTAL CONSERVATION AT TELEPHONE NUMBER (518) 457-7362 AND THE NATIONAL RESPONSE CENTER AT TELEPHONE NUMBER 1-800-424-8802. A CONTAINMENT BOOM AND A SUPPLY OF HAY, STRAW, OR OTHER ABSORBENT SHOULD BE RETAINED SO THAT IT MAY BE RAPIDLY DEPLOYED TO SOAK UP ANY POSSIBLE SPILLAGE. PENDING ENVIRONMENTAL CONSERVATION AND/OR COAST GUARD ARRIVAL ON THE SCENE, THE USE OF CHEMICAL DISPERSING AGENTS AND EMULSIFIERS IS NOT AUTHORIZED WITHOUT PRIOR, SPECIFIC, FEDERAL, OR STATE APPROVAL.

5. ANY MATERIAL ENTERING THE WATER, FOR ANY REASON WHATSOEVER, WHICH IS NOT PART OF THE INTENDED WORK, SHALL BE REMOVED AND DISPOSED OF PROPERLY IN ACCORDANCE WITH CURRENT REGULATIONS.

**CONSTRUCTION NOTES:**

1. ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (US CUSTOMERY) REFERENCED IN THE CONTRACT PROJECT "PROPOSAL" EXCEPT AS MODIFIED BY THESE PLANS OR BY CHANGES SET FORTH IN THE CONTRACT PROJECT "PROPOSAL". THESE PLANS ARE SUBMITTED IN ACCORDANCE WITH THE HIGHWAY LAW AND STANDARD SPECIFICATIONS OFFICIALLY FINALIZED AND ADOPTED ON JANUARY 1, 2024 AS POSTED ON THE DEPARTMENT'S WEBSITE.

2. THE CONTRACTOR SHALL EXAMINE AND VERIFY IN THE FIELD ALL CONDITIONS AND DIMENSIONS. 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. THE RESULTS OF THIS CHECK OF CONDITIONS AND DIMENSIONS SHALL BE SO NOTED ON THE DRAWINGS SUBMITTED FOR APPROVAL. THERE SHALL BE NO CLAIM AGAINST THE OWNER MADE BY THE CONTRACTOR FOR WORK PERTAINING TO MODIFICATIONS AS MAY BE REQUIRED DUE TO ANY DIFFERENCE BETWEEN ACTUAL FIELD CONDITIONS AND THOSE SHOWN BY THE DETAILS AND DIMENSIONS ON THE CONTRACT PLANS. THE CONTRACTOR WILL BE PAID AT THE UNIT BID PRICE FOR THE ACTUAL QUANTITIES OF MATERIALS USED OR FOR THE WORK PERFORMED, AS INDICATED BY THE VARIOUS ITEMS IN THE CONTRACT AND APPROVED CHANGES BY THE ENGINEER.

3. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL DAMAGES TO THE EXISTING FACILITIES CAUSED BY HIS OPERATIONS WHICH IS NOT INCLUDED AS PART OF THE INTENDED WORK. ALL DAMAGE TO THE EXISTING FACILITIES WHICH ARE NOT PART OF THE INTENDED WORK SHALL BE REPAIRED BY THE CONTRACTOR WITHOUT COST TO THE OWNER AND TO THE SATISFACTION OF THE ENGINEER.

4. THE CONTRACTOR SHALL EXERCISE CARE IN HIS REMOVAL OPERATIONS 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 TOWN, 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 TOWN, THE DAMAGED MATERIAL SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

5. STREAM CONSERVATION: DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT THEIR OPERATIONS IN SUCH A MANNER TO PREVENT 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. THE CONTRACTOR 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 CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER PURITIES. IF THE CONTRACTOR USES WATER FROM A STREAM, THEY 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.

6. THE CONTRACTOR IS ADVISED THAT ADDITIONAL "NOTES" WILL BE FOUND ON SUBSEQUENT SHEETS OF THE CONTRACT PLANS AND SUCH "NOTES", WHILE PERTAINING TO THESE SPECIFIC SHEETS THEY ARE PLACED ON, ALSO SUPPLEMENT THE GENERAL NOTES LISTED HEREIN.

7. NO ADDITIONAL PAYMENT WILL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLANS OR IN THE SPECIFICATIONS UNLESS PAYMENT IS SPECIFICALLY INDICATED BY ITEM NUMBER. THE COST OF WORK FOR WHICH NO PAYMENT ITEM IS INDICATED, SHALL BE INCLUDED IN THE UNIT PRICES BID FOR VARIOUS ITEMS OF THIS CONTRACT.

8. 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.

**CONSTRUCTION NOTES (CONT.):**

9. THE CONTRACTOR SHALL BE REQUIRED TO PROTECT HIS WORKERS AT ALL TIMES IN CONFORMANCE WITH APPLICABLE OSHA REGULATIONS.

10. WHENEVER ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THE AREA SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THOSE ITEMS. ALL DISPOSAL AREAS MUST BE APPROVED BY THE ENGINEER PRIOR TO USE.

11. THE CONTRACTOR IS RECOMMENDED TO VISIT THE SITE BEFORE BIDDING, TO FAMILIARIZE THEMSELV WITH THE FIELD CONDITIONS AND TO JUDGE FOR THEMSELVES THE EXTENT AND NATURE OF THE WORK TO BE DONE UNDER THIS CONTRACT. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF THEIR FAILURE TO INCLUDE IN THE BID ALL ITEMS AND MATERIALS AND SPECIFIC OF EACH ITEM OR MATERIAL WHICH IS REQUIRED TO BE FURNISHED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

**SPECIAL EVENT/HOLIDAY NOTES**

1. THERE SHALL BE NO TEMPORARY LANE CLOSURES ON ROADWAY FACILITIES OWNED AND/OR MAINTAINED BY NYSDOT ON THE MAJOR HOLIDAYS LISTED BELOW.

EXCEPTIONS CAN ONLY BE MADE UNDER THE FOLLOWING CONDITIONS:

- EMERGENCY WORK
- WORK WITH LONG TERM STATIONARY LANE CLOSURES
- SAFETY WORK THAT DOES NOT ADVERSELY IMPACT TRAFFIC MOBILITY AND HAS BEEN AUTHORIZED BY THE OFFICE OF TRAFFIC SAFETY & MOBILITY.

CONSTRUCTION ACTIVITIES THAT WILL RESULT IN TEMPORARY LANE CLOSURES SHALL BE SUSPENDED TO MINIMIZE TRAVEL DELAYS ASSOCIATED WITH ROAD WORK FOR MAJOR HOLIDAYS AS FOLLOWS. THE CONTRACTOR SHALL COORDINATE ALL PLANNED CONSTRUCTION ACTIVITIES WITH THE ENGINEER, NYSDOT, AND TOWN OF CLIFTON PARK AT A MINIMUM OF SEVEN (7) DAYS IN ADVANCE OF THE FOLLOWING DATES AND/OR EVENTS:

HOLIDAY	FALLS ON	TEMPORARY LANE CLOSURES NOT ALLOWED FROM
NEW YEAR'S DAY INDEPENDENCE DAY CHRISTMAS DAY	SUNDAY/MONDAY	6:00 AM FRIDAY BEFORE TO 6:00 AM TUESDAY AFTER
	TUESDAY	6:00 AM SATURDAY BEFORE TO 6:00 AM WEDNESDAY AFTER (CHRISTMAS: 6:00 AM FRIDAY BEFORE TO 6:00 AM WEDNESDAY AFTER)
	WEDNESDAY	6:00 AM TUESDAY BEFORE TO 6:00 AM THURSDAY AFTER (CHRISTMAS: 6:00 AM SATURDAY BEFORE TO 6:00 AM THURSDAY AFTER)
	THURSDAY	6:00 AM THURSDAY TO 6:00 AM MONDAY AFTER (CHRISTMAS: 6:00 AM WEDNESDAY BEFORE TO 6:00 AM MONDAY AFTER)
	FRIDAY/SATURDAY	6:00 AM THURSDAY BEFORE TO 6:00 AM MONDAY AFTER
MEMORIAL DAY LABOR DAY	MONDAY	6:00 AM FRIDAY BEFORE TO 6:00 AM TUESDAY AFTER
THANKSGIVING DAY	THURSDAY	6:00 AM WEDNESDAY BEFORE TO 6:00 AM MONDAY AFTER

**STREAM PROTECTION NOTES:**

1. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO DROP WASTE CONCRETE, DEBRIS, AND OTHER MATERIAL INTO THE WATERBODY. PLATFORMS, NETS, SCREENS, OR OTHER PROTECTIVE DEVICES SHALL BE USED TO CATCH THE MATERIAL. IF THE ENGINEER-IN-CHARGE DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS PROVIDED.

2. THE CONTRACTOR SHALL ACCOMPLISH WORK IN THE STREAM BED AND BANKS DURING A PERIOD OF LOW FLOW.

3. PRIOR TO STARTING ANY WORK IN THE STREAM BED OR WITHIN 50 FT. OF THE WATERS EDGE, INCLUDING CONSTRUCTION ACCESS, WATER DIVERSION, AND HABITAT RESTORATION, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER-IN-CHARGE (EIC).

4. NO IN-WATER WORK, INCLUDING WATER DIVERSION, COFFERDAM INSTALLATION AND REMOVAL, SHALL TAKE PLACE DURING THE TROUT PROHIBITION PERIOD (BEGINNING OCTOBER 1 AND ENDING MAY 31. COFFERDAMS AND STREAM DIVERSIONS SHOULD BE SIZED WITH REGARD TO THE SEASONAL FLOW OF THE STREAM EXPECTED FOR THE TIME THEY ARE TO BE IN USE.

**MAINTENANCE OF SLOPE PROTECTION NOTES**

1. MAINTENANCE OF THE MULCHED AREAS SHALL INCLUDE REINSTALLING IN AREAS WHERE THE SOIL BECOMES EXPOSED TO VIEW. ANY AREAS THAT BECOME SETTLED OR GULLIED DURING THE INSTALLATION PROCESS SHALL BE REPAIRED WITHIN FOURTEEN (14) DAYS OR PRIOR TO THE ONSET OF INCLEMENT WEATHER, WHICH EVER IS LESS.

2. MAINTENANCE OF TEMPORARY SEEDED AREAS SHALL INCLUDE RE-SEEDING AS NEEDED (OR AOB) TO ESTABLISH A SATISFACTORY STAND OF TURF. THE COST OF RESEEDING SHALL BE AT THE CONTRACTORS EXPENSE.

3. ALL TEMPORARY TREATMENT SHALL BE MAINTAINED THROUGHOUT THE LIFE OF THE EROSION CONTROL MEASURE.

4. ALL SEED MUST BE PRE-APPROVED BY THE ENGINEER PRIOR TO SEEDING OPERATIONS.

5. ALL SLOPES SHALL BE BROUGHT TO FINISHED GRADE AND TRIMMED AS SOON AS POSSIBLE.

6. PERMANENT EROSION CONTROL MEASURES OF SEEDING AND MULCHING (SEED ONLY WITHIN SEEDING DATES) SHALL BE CARRIED OUT ONCE THE SLOPES HAVE REACHED FINAL GRADE. TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN IN THE TEMPORARY SLOPE TREATMENT TABLE SHALL BE EMPLOYED AS INDICATED.

7. FOR ADDITIONAL TEMPORARY AND PERMANENT EROSION CONTROL INFORMATION, REFER TO THE EROSION CONTROL DETAILS (DWGS. MD-2 AND MD-3).

NO.	DATE	BY	REVISION



**Barton & Loguidice**

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145 SECTION 7209

BRUNO ROAD  
 CULVERT REPLACEMENT  
 TOWN OF CLIFTON PARK  
 SARATOGA COUNTY

GENERAL NOTES  
 SCALE: NONE  
 DATE ISSUED: 03/2024  
 DRAWING  
 GN-1

**WORK ZONE TRAFFIC CONTROL NOTES**

**1. GENERAL**

- A. THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGHOUT THE LENGTH AND DURATION OF THE CONTRACT IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 619 OF THE STANDARD SPECIFICATIONS AS TRANSMITTED BY EI 11-016, 2009 NATIONAL MUTCD INCLUDING REVISION 1 AND NEW YORK STATE SUPPLEMENTS (ADOPTED RULE AND PROPOSED RULE), STANDARD SPECIFICATION T29 AS PROVIDED BY EI 11-018, STANDARD SPECIFICATION 730 AS PROVIDED BY EI 07-004, STANDARD SPECIFICATION 704-05 AS PROVIDED BY EI 07-005, AND THE WORK ZONE TRAFFIC CONTROL (WZTC) DETAILS IN THE PLANS AND PROPOSAL OR AOB, AND FURTHER REFERENCED AS THE WZTC STANDARDS.
- B. FOR TYPICAL APPLICATIONS OF TRAFFIC CONTROL DEVICES IN CONSTRUCTION AREAS NOT SPECIFIED IN THE PROPOSAL, THE PROVISIONS OF THE NATIONAL MUTCD 2009 AND NEW YORK STATE SUPPLEMENT (ADOPTED RULE AND PROPOSED RULE) SHALL APPLY. THE STANDARDS OF APPLICATION NOTED THEREIN AND ON THE PROPOSAL ARE TO BE CONSIDERED MINIMAL STANDARDS. WHERE OPTIONS EXIST FOR SIGN SHAPE, THE DIAMOND SHAPE SHALL BE USED.
- C. PRIOR TO THE START OF WORK, THE CONTRACTOR SHALL SUBMIT ANY PROPOSED CHANGES TO THE TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL. ANY CHANGE WHICH ALTERS THE BASIC CONCEPT OF THE PLAN MUST BE APPROVED BY THE ENGINEER.
- D. "ROAD WORK AHEAD" (W20-1) AND "END ROAD WORK" (G20-2) SHALL BE PLACED IN ADVANCE OF AND AFTER WORK ZONES, UNLESS OTHERWISE SPECIFIED.
- E. IF THE ENGINEER NOTIFIES THE CONTRACTOR OR THE CONTRACTOR'S SUPERINTENDENT OF ANY HAZARDOUS CONSTRUCTION PRACTICES, ALL OPERATIONS IN THAT AREA SHALL BE DISCONTINUED AND IMMEDIATE REMEDIAL ACTION SHALL BE TAKEN TO THE SATISFACTION OF THE ENGINEER BEFORE WORK IS TO RESUME.
- F. THE TRAFFIC CONTROL PLANS INCLUDED IN THE CONTRACT DOCUMENTS ARE NOT INTENDED TO BE ALL INCLUSIVE, BUT RATHER SERVE AS A GUIDE FOR THE SAFE AND EFFICIENT SEQUENCE OF CONSTRUCTION OPERATIONS. ANY INCIDENTAL ADDITIONS OR REVISIONS TO THE TRAFFIC CONTROL PLAN DIRECTED BY THE ENGINEER SHALL BE INCLUDED IN THE LUMP SUM PRICE BID IN ACCORDANCE WITH ITEM 619.01 - BASIC WORK ZONE TRAFFIC CONTROL, OR THE APPROPRIATE PAY ITEM AS APPLICABLE.
- G. PRIOR TO THE START OF ANY WORK OPERATION, ALL RELATED WORK FOR THE TEMPORARY TRAFFIC CONTROL SHALL BE IN PLACE AND COMPLETE. THIS INCLUDES, BUT IS NOT LIMITED TO, ALL SIGNS, SIGNALS, PAVEMENT, DELINEATION, BARRIERS, ROADSIDE DELINEATION (CONES, DRUMS, ETC.), FLAGGERS, PAVEMENT MODIFICATIONS, AND ANY OTHER WORK AS DIRECTED BY THE ENGINEER.
- H. THE CONTRACTOR SHALL PROVIDE REVOLVING, FLASHING AMBER LIGHTS ON ALL CONSTRUCTION EQUIPMENT AND SUPERVISORY VEHICLES. COST TO BE INCLUDED IN THE LUMP SUM PRICE BID.

**2. PRELIMINARY WORK**

- A. PRIOR TO THE START OF ANY WORK OPERATIONS, ALL RELATED WORK FOR PROPOSED WORK ZONE TRAFFIC CONTROL, AS DETERMINED BY THE ENGINEER, SHALL BE COMPLETE. THIS INCLUDES BUT IS NOT LIMITED TO, ALL SIGNS, SIGNALS, PAVEMENT MARKINGS, BARRIERS, DELINEATION (CONES, DRUMS, ETC.), FLAGGERS, PAVEMENT MODIFICATIONS, AND ANY OTHER RELATED WORK.

**3. WORK AREA COORDINATION**

- A. WHEN TWO OR MORE WORK AREAS ARE ADJACENT, OVERLAP, OR ARE IN CLOSE PROXIMITY AS DETERMINED BY THE ENGINEER. THE CONTRACTOR SHALL ENSURE THERE IS NO CONFLICT IN SIGNING AND THAT LANE CONTINUITY IS MAINTAINED THROUGHOUT ALL WORK AREAS.
- B. THE CONTRACTOR SHALL COORDINATE ALL CONTRACT WORK WITH ANY UTILITY WORK, SUBCONTRACTOR WORK, OPERATIONS OR OTHER CONSTRUCTION ACTIVITIES IN THE AREA TO ENSURE THAT THERE ARE NO WORK ZONE TRAFFIC CONTROL CONFLICTS. SEE GENERAL NOTES FOR OTHER CONSTRUCTION PROJECTS AND CONTACTS.

**4. CONES, DRUMS, BARRICADES AND MARKERS**

- A. WHERE POSSIBLE ALL CHANNELIZING / DELINEATION DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM OF 24" CLEARANCE TO THE TRAVELED WAY UNLESS OTHERWISE SHOWN ON THE PLANS. THE CONTRACTOR SHALL MAKE CERTAIN THAT PLACEMENT OF CONES, DRUMS AND MARKERS, OR BARRICADES SHALL NOT INTERFERE WITH SIGHT DISTANCE.
- B. A DRUM MOUNTED WITH A TYPE B FLASHING HIGH INTENSITY WARNING LIGHT SHALL BE PLACED AT A BUMP OR DIP IN THE PAVEMENT (A PAVEMENT CONDITION CONSIDERED BY THE ENGINEER TO BE SUFFICIENTLY ABRUPT ENOUGH TO CAUSE CONSIDERABLE DISCOMFORT, CARGO SHIFTING, OR DEFLECTION OF A VEHICLE FROM ITS TRUE COURSE AT PREVAILING DRIVING SPEEDS), WITH APPROPRIATE ADVANCE "BUMP" SIGNING. THE COST OF THESE DRUMS AND LIGHTS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID.
- C. WHERE POSSIBLE A LATERAL BUFFER SPACE OF 1.0' SHOULD BE PROVIDED BETWEEN THE WORK ZONE AND THE LINE OF DELINEATION DEVICES.

**5. LANE CLOSURES**

- A. DAILY LANE OR SHOULDER CLOSURES CAN BE UTILIZED BY THE CONTRACTOR AS APPROVED BY THE ENGINEER. DAILY LANE CLOSURE SET-UP SHALL CONFORM TO NYS STANDARD DETAILS, SHEET 619-30 AND/OR 619-60 AND A URBAN AREA DESIGN SPEED DEPENDING ON THE ROAD (SEE COVER SHEET FOR THE EXISTING ROAD SPEEDS). PAYMENT FOR DAILY LANE AND SHOULDER CLOSURE SHALL BE INCLUDED IN THE LUMP SUM PRICE BID.
- B. THERE SHALL BE NO TEMPORARY LANE CLOSURES ON THE DATES LISTED IN SPECIAL EVENTS / HOLIDAY NOTES ON DWG. GN-1 UNLESS OTHERWISE APPROVED BY THE ENGINEER, TOWN, AND NYS DOT.
- C. SHORT DURATION ALTERNATING ONE-WAY TRAFFIC ON TWO-WAY ROADWAYS MAY BE MAINTAINED DURING THE WORKING HOURS ON ALL NON-STATE ROADWAYS IN ACCORDANCE WITH THE WZTC STANDARDS. HOWEVER, THE CONTRACTOR WILL BE REQUIRED TO PROVIDE TWO UNOBSTRUCTED LANES FOR THE TWO-WAY TRAFFIC DURING NON-WORKING HOURS. ONE-WAY TRAFFIC OPERATIONS SHALL BE LIMITED TO A LENGTH APPROVED BY THE ENGINEER. FLAGGERS SHALL BE REQUIRED TO USE RADIO OR SIMILAR CONTACT WHEN THEY ARE MAINTAINING ONE-WAY TRAFFIC WHEN ONE FLAGGER IS NOT VISIBLE TO THE OTHER OR, IF IN THE OPINION OF THE ENGINEER, THIS COMMUNICATION IS NECESSARY. THE COST OF ANY RADIO OR FIELD TELEPHONES USED SHALL BE INCLUDED IN THE LUMP SUM PRICE BID.

**6. SIGNS**

- A. THE CORRECT SEQUENCE AND SPACING OF APPROPRIATE SIGNS, WHETHER PERMANENT, TEMPORARY, OR CONSTRUCTION, MUST BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE WZTC STANDARDS AND AS DIRECTED BY THE ENGINEER.
- B. COLORS USED FOR CONSTRUCTION SIGNING (INCLUDING TEMPORARY OR MODIFIED GUIDE SIGNS) SHALL BE BLACK LEGEND ON FLUORESCENT ORANGE BACKGROUND WITH THE FOLLOWING EXCEPTIONS:  
EMERGENCY SERVICE MARKERS, ROUTE MARKERS AND THEIR CORRESPONDING AUXILIARY SIGNS SHALL BE THE COLORS SPECIFIED IN THE WZTC STANDARDS. (ANY AUXILIARY SIGNS WHICH ARE NOT INCLUDED SHALL BE BLACK LEGEND ON FLUORESCENT ORANGE BACKGROUND). BLANK COVERS USED TO COVER PORTIONS OF EXISTING SIGNS SHALL BE OF A COLOR AND REFLECTORIZED MATERIAL MATCHING THAT OF THE SIGN BEING PARTIALLY COVERED. ANY REGULATORY SIGNS REQUIRED SHALL BE THE COLORS SPECIFIED IN THE WZTC STANDARDS.
- C. IF ADVANCE SIGNING OBSTRUCTS THE VISIBILITY OF THE FLAGGER OR CONFLICTS WITH DRIVEWAYS OR SIDE ROADS, SIGNS SHOULD BE MOVED BACK AS DIRECTED BY THE ENGINEER.
- D. ALL SIGNS NECESSARY FOR WORK ZONE TRAFFIC CONTROL (INCLUDING RELOCATION AND/OR MODIFICATION AND/OR RESTORATION OF EXISTING SIGN PANELS) AS NOTED IN THE PLANS, WZTC STANDARDS, OR AOB SHALL BE INCLUDED IN THE LUMP SUM PRICE BID.
- E. ANY EXISTING SIGN DAMAGE IS TO BE DOCUMENTED AND ANY SUBSEQUENT SIGN DAMAGE REMEDIED. THE CONTRACTOR SHALL BE LIABLE FOR ANY DAMAGE DONE, DUE TO THE CONTRACTORS METHODS. TO TEMPORARILY REMOVE, RELOCATE OR COVER SIGN PANELS OR SIGN TEXT. REFER TO SECTION 619-2.02 H.3 "SIGN COVERS", IN THE STANDARD SPECIFICATIONS.
- F. ALL CONSTRUCTION SIGNS SHALL BE PLACED WITHIN THE HIGHWAY BOUNDARY AT THE SAME OFFSET FROM THE EDGE OF PAVEMENT AS EXISTING ROAD SIGNAGE.

**7. PAVEMENT MARKINGS**

- A. THE CONTRACTOR SHALL PROVIDE PAVEMENT MARKINGS AT ALL TIMES, ON ALL PAVEMENT, WHETHER EXISTING, TEMPORARY OR NEW, UNTIL PERMANENT MARKINGS ARE INSTALLED OR RESTORED. THIS SHALL INCLUDE AT ALL LOCATIONS, EDGE LINES, CENTERLINE, LANE LINES (SOLID OR BROKEN), CHANNELIZING LINES, DOTTED LINES, PLUS ANY MARKINGS ORDERED BY THE ENGINEER. ALL MARKINGS SHALL BE APPLIED IN ACCORDANCE WITH THE WZTC STANDARDS AND SHALL INDICATE ACTUAL CONDITIONS AT ALL TIMES. THESE MARKINGS SHALL BE PAID FOR AS SHOWN IN THE CONTRACT PLANS.
- B. TEMPORARY OR INTERIM PAVEMENT MARKINGS COMPRISED OF TRAFFIC MARKING PAINT SHALL BE REPAINTED AT NO ADDITIONAL COST, WHEN 10% OF THE UNDERLYING PAVEMENT IS VISIBLE THROUGH THE PAVEMENT MARKING OR WHEN THE ENGINEER DEEMS REFLECTIVITY IS INADEQUATE.

**8. PUBLIC INGRESS AND EGRESS**

- A. THE CONTRACTOR SHALL PROVIDE PROPERTY OWNERS WITH ACCESS (AOBE) TO THEIR DRIVEWAYS AND SHALL MAINTAIN ACCESS THROUGH ALL PHASE WORK AREAS AND SHALL DELINEATE ACCESS BY MEANS OF SIGNS, CONES, AND/OR DRUMS AOB. THE COSTS FOR SIGNS AND ANY OTHER DELINEATION AND GUIDING DEVICES (CONES, DRUMS, ETC.) SHALL BE INCLUDED IN THE LUMP SUM PRICE BID.
- B. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE HIGHWAY WITHIN THE TEMPORARY TRAFFIC CONTROL ZONE, ADDITIONAL TRAFFIC CONTROL DEVICES SHALL BE ERECTED AND FLAGGERS POSTED AT APPROPRIATE LOCATIONS, AOB. ALL COSTS INVOLVED SHALL BE INCLUDED IN THE LUMP SUM PRICE BID.
- C. WHERE DIRECT ACCESS TO DRIVEWAYS IS NOT POSSIBLE DUE TO NECESSARY CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL PLAN ALTERNATE MEANS OF ACCESS AND SUBMIT SUCH PLANS TO THE ENGINEER FOR APPROVAL. PROPERTY OWNERS/OCCUPANTS SHALL HAVE 24 HOUR NOTICE OF ANY CHANGES. COST OF THIS WORK SHALL BE INCLUDED IN THE LUMP SUM PRICE BID.

**9. VEHICLE RESTRICTIONS**

- A. THE CONTRACTOR SHALL GIVE VERBAL NOTICE AT THE BEGINNING AND END OF A RESTRICTION ON ANY ROADWAY TO ALL POLICE, FIRE, AND EMERGENCY SERVICE AGENCIES THAT PROVIDE SERVICES TO CONTRACT AREA.  
SHERIFFS DEPARTMENT - (518) 885-6761  
NEW YORK STATE POLICE - (518) 371-2287  
CLIFTON PARK HALFMOON EMERGENCY CORPS - (518) 371-3880  
CLIFTON PARK FIRE DEPARTMENT - (518) 371-8400

**10. CONSTRUCTION INGRESS AND EGRESS**

- A. VEHICLES, MATERIALS AND/OR EQUIPMENT, INCLUDING OUT OF SERVICE SIGNS, SHALL NOT BE PARKED OR STORED WITHIN 35' OF A ROADWAY USED BY THE GENERAL PUBLIC OR ANY OTHER AREAS DEEMED HAZARDOUS BY THE EIC.
- B. VEHICLES PARKED BEHIND GUIDE RAIL / BARRIER SHALL BE PARKED BEYOND DEFLECTION DISTANCE AND WITHIN THE POINT OF NEED COVERAGE.
- C. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, AT ALL TIMES, SAFE & ADEQUATE INGRESS AND EGRESS TO AND FROM INTERSECTING HIGHWAYS, AT EXISTING OR AT NEW ACCESS POINTS CONSISTENT WITH THE WORK UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

**11. FLAGGERS**

- A. WHEN FLAGGERS ARE BEING USED FOR TRAFFIC CONTROL PURPOSES, FLAGGER SIGNS (W20-7d) SHALL BE PLACED AS SHOWN ON PLANS OR AOB ON APPROACHES TO THE AREAS BEING FLAGGED. THE COST OF FLAGGER SIGNS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID AND IN ACCORDANCE WITH ITEM 619.01 - BASIC WORK ZONE TRAFFIC CONTROL. FLAGGER SIGNS SHALL NOT BE USED FOR BRIEF PERIODS OF INCIDENTAL FLAGGING. FLAGGER SIGNS SHALL NOT BE VISIBLE WHEN FLAGGERS ARE NOT BEING USED.
- B. STOP/SLOW PADDLES SHALL BE USED FOR FLAGGING AND SHALL CONFORM TO THE REQUIREMENTS IN THE MUTCD BUT SHALL BE A MINIMUM OF 24". THE COST OF THESE PADDLES AND ALL FLAGGERS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID.
- C. FLAGGERS SHALL NOT POSITION THEMSELVES DIRECTLY IN THE PATH OF ONCOMING TRAFFIC. THE FLAGGER SHOULD STAND EITHER ON THE SHOULDER ADJACENT TO THE TRAFFIC BEING CONTROLLED OR IN THE CLOSED/CHANNELIZED LANE. AT ALL TIMES, THE CONTRACTOR SHALL PROVIDE FLAGGERS WITH A CLEAR ESCAPE PATH, FREE OF PARKED VEHICLES, EQUIPMENT OR OTHER OBSTACLES.
- D. THE CONTRACTOR SHALL PROVIDE FLAGGERS WHERE SIGHT DISTANCES ARE IMPAIRED BY THE OPERATION OR IN ANY OTHER SITUATION AOB. THE W20-7d SIGNS SHALL BE PLACED NO LESS THAN 300' IN ADVANCE OF THE FLAGGER STATION.
- E. FLAGGERS SHALL BE REQUIRED TO USE TWO-WAY RADIOS, WALKIE-TALKIES, OR OTHER FORMS OF ENHANCED COMMUNICATION WHEN ONE FLAGGER IS NOT VISIBLE TO THE OTHER OR IF THE ENGINEER DEEMS IT NECESSARY. ALL COSTS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID.
- F. FLAGGERS SHALL USE THE FREE HAND FOR EMPHASIS AS SHOWN IN THE NATIONAL MUTCD. EACH FLAGGER SHALL CONTROL NO MORE THAN ONE APPROACH OF TRAFFIC UNLESS THE APPROACHES PRESENT UNUSUALLY LOW SPEEDS AND/OR UNUSUALLY LOW VOLUMES, WITH ADEQUATE SIGHT DISTANCE FOR THE SAFE HANDLING OF TRAFFIC, AS DETERMINED BY THE ENGINEER.
- G. THE ENGINEER SHALL DETERMINE THE NUMBER OF FLAGGERS NEEDED FOR EACH APPLICABLE WORK ZONE. UNDER CERTAIN GEOMETRIC AND TRAFFIC SITUATIONS, MORE THAN ONE FLAGGER STATION MAY BE REQUIRED FOR EACH DIRECTION OF TRAFFIC. AT TWO WAY, UNUSUALLY LOW-VOLUME AND/OR UNUSUALLY LOW-SPEED SHORT LANE CLOSINGS, WHERE ADEQUATE SIGHT DISTANCE IS AVAILABLE FOR SAFE HANDLING OF TRAFFIC, THE USE OF ONE FLAGGER MAY BE SUFFICIENT. IN THIS SITUATION, A POSITION MAY HAVE TO BE TAKEN OPPOSITE THE WORK TO OPERATE EFFECTIVELY.
- H. FLAGGER STATIONS SHOULD BE VISIBLE FAR ENOUGH AHEAD TO PERMIT ALL VEHICLES TO STOP. THE FLAGGER SHOULD BE STATIONED FAR ENOUGH AHEAD OF THE WORK FORCE TO WARN THEM (FOR EXAMPLE WITH HORNS, WHISTLES, ETC.) OF APPROACHING DANGER, SUCH AS VEHICLES OUT OF CONTROL.

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IN CHARGE OF TCB DESIGNED BY DUG/PUC CHECKED BY TCB DRAFTED BY DUG/PUC CHECKED BY PUC

PREPARED BY: BARTON & LOGUIDICE, D.P.C.  
ON: MARCH 18, 2024



**Barton & Loguidice**

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BRUNO ROAD  
CULVERT REPLACEMENT

TOWN OF CLIFTON PARK

SARATOGA COUNTY

WORK ZONE  
TRAFFIC CONTROL  
NOTES

SCALE: NONE  
DATE ISSUED: 03/2024  
DRAWING  
WZTC-1



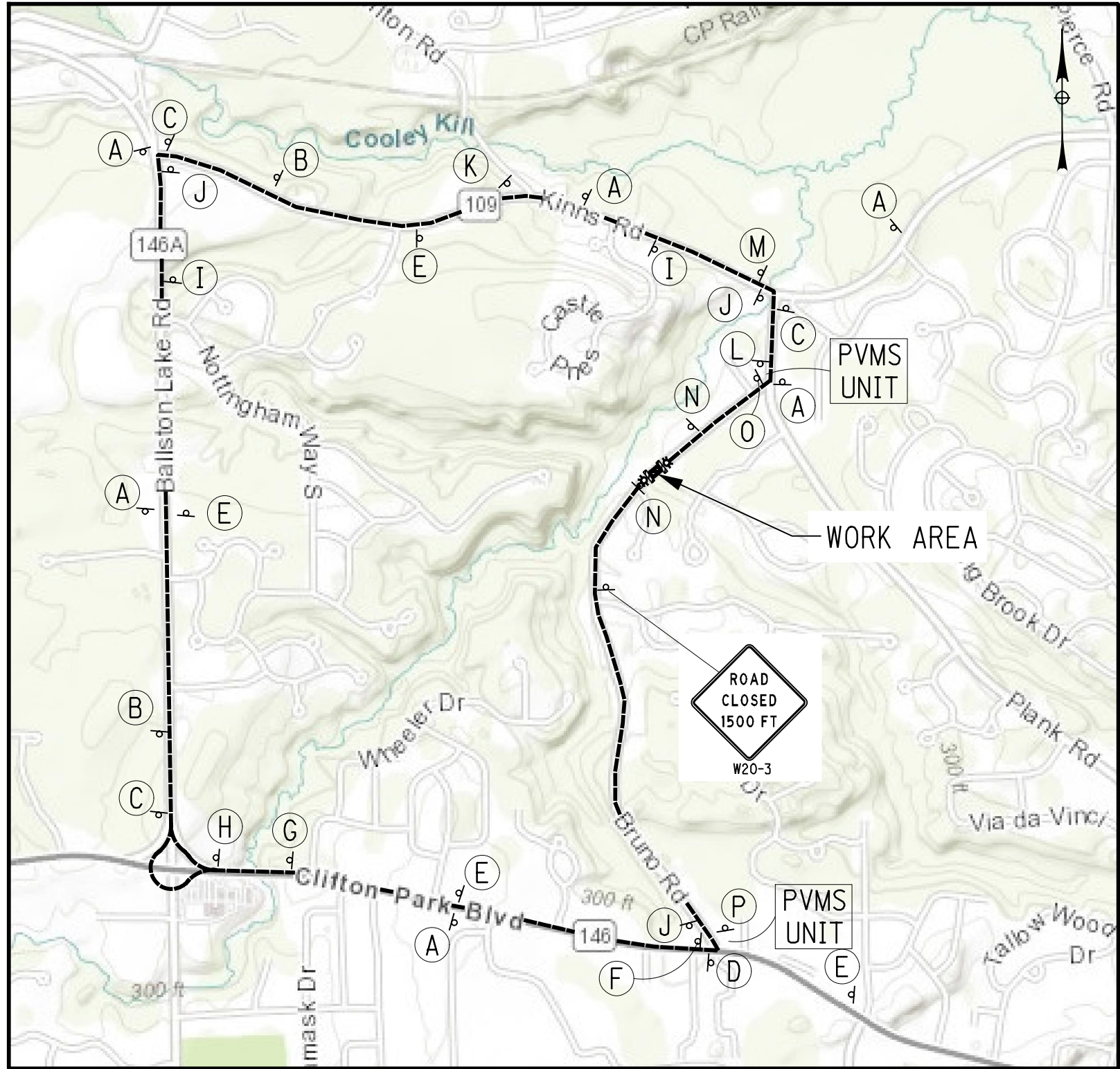
<b>A</b> DETOUR M4-8 SOUTH M3-3 BRUNO RD D1-1 ↑ M6-3	<b>B</b> DETOUR M4-8 SOUTH M3-3 BRUNO RD D1-1 ↶ M5-1 L	<b>C</b> DETOUR M4-8 SOUTH M3-3 BRUNO RD D1-1 ↶ M6-1 L	<b>D</b> END DETOUR M4-8a SOUTH M3-3 BRUNO RD D1-1	<b>E</b> DETOUR M4-8 NORTH M3-1 BRUNO RD D1-1 ↑ M6-3
<b>F</b> DETOUR M4-8 NORTH M3-1 BRUNO RD D1-1	<b>G</b> DETOUR M4-8 NORTH M3-1 BRUNO RD D1-1 ↗ M5-2 R	<b>H</b> DETOUR M4-8 NORTH M3-1 BRUNO RD D1-1 ↗ M6-2 R	<b>I</b> DETOUR M4-8 NORTH M3-1 BRUNO RD D1-1 ↘ M5-1 R	<b>J</b> DETOUR M4-8 NORTH M3-1 BRUNO RD D1-1 → M6-1 R
<b>K</b> DETOUR M4-8 SOUTH M3-3 BRUNO RD D1-1 → M6-1 R	<b>L</b> END DETOUR M4-8a NORTH M3-1 BRUNO RD D1-1	<b>M</b> DETOUR M4-8 SOUTH M3-3 BRUNO RD D1-1	<b>N</b> ROAD CLOSED R11-2	<b>P</b> ROAD CLOSED 1 MILE AHEAD LOCAL TRAFFIC ONLY R11-3a
			<b>O</b> ROAD CLOSED 0.2 MILES AHEAD LOCAL TRAFFIC ONLY R11-3a	

PREPARED BY: BARTON & LOGUIDICE, D.P.C.  
 ON: MARCH 18, 2024



- LEGEND:**
- ⊕ SIGNS (NMTCD), PAYMENT UNDER ITEM 619.01
  - ⊕ TYPE III CONSTRUCTION BARRICADE, WITH LIGHTING, ITEM 619.04
  - DETOUR ROUTE
  - ▨ WORK ZONE AREA

- NOTES:**
- FOR ADDITIONAL INFORMATION, REFER TO NYS DOT STANDARD SHEET 619-503.
  - SEE DWG. WZTC-4 FOR CULVERT PLAN.
  - PVMS = PORTABLE VARIABLE MESSAGE SIGN (TOWN TO PROVIDE AND INSTALL). CONTRACTOR TO MAINTAIN PVMS MESSAGING FOR CONTRACT DURATION.
  - SIGN AND PVMS LOCATIONS SHOWN ARE APPROXIMATE, TO BE FINALIZED IN THE FIELD WITH THE CONTRACTOR AND ENGINEER/TOWN.



**WORK ZONE TRAFFIC CONTROL TRAFFIC DETOUR PLAN - BRUNO ROAD**  
 N.T.S.  
 (NYSDEC ENVIRONMENTAL RESOURCE MAPPER)


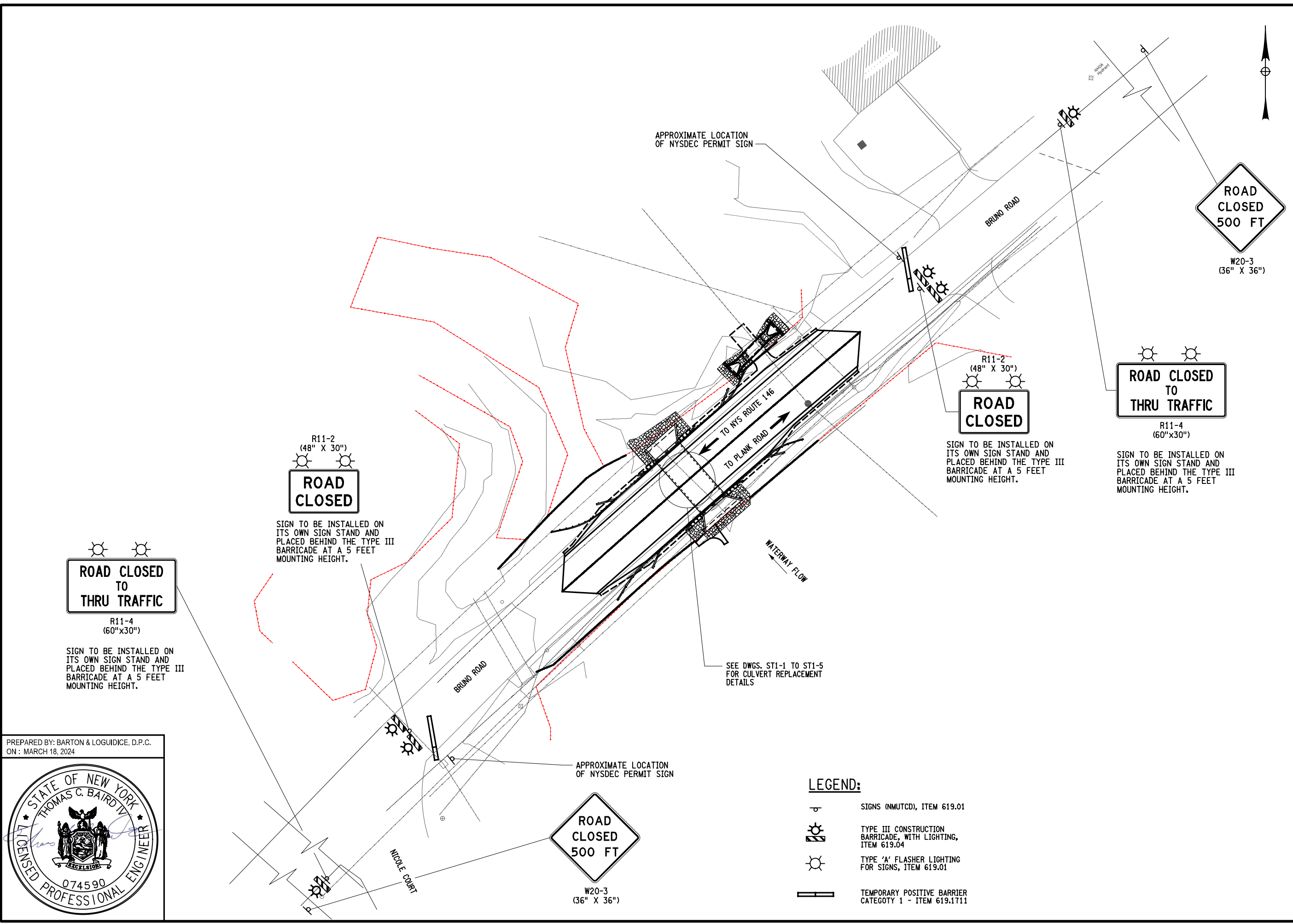
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BRUNO ROAD CULVERT REPLACEMENT	TOWN OF CLIFTON PARK
	SARATOGA COUNTY
WORK ZONE TRAFFIC CONTROL DETOUR BRUNO ROAD	
SCALE: NONE	
DATE ISSUED: 03/2024	
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PREPARED BY: BARTON & LOGUIDICE, D.P.C.  
 ON: MARCH 18, 2024

R11-2  
 (48" X 30")  
**ROAD CLOSED**  
 SIGN TO BE INSTALLED ON ITS OWN SIGN STAND AND PLACED BEHIND THE TYPE III BARRICADE AT A 5 FEET MOUNTING HEIGHT.





R11-4  
 (60"x30")  
**ROAD CLOSED TO THRU TRAFFIC**  
 SIGN TO BE INSTALLED ON ITS OWN SIGN STAND AND PLACED BEHIND THE TYPE III BARRICADE AT A 5 FEET MOUNTING HEIGHT.


R11-2  
 (48" X 30")  
**ROAD CLOSED**  
 SIGN TO BE INSTALLED ON ITS OWN SIGN STAND AND PLACED BEHIND THE TYPE III BARRICADE AT A 5 FEET MOUNTING HEIGHT.

R11-4  
 (60"x30")  
**ROAD CLOSED TO THRU TRAFFIC**  
 SIGN TO BE INSTALLED ON ITS OWN SIGN STAND AND PLACED BEHIND THE TYPE III BARRICADE AT A 5 FEET MOUNTING HEIGHT.

**ROAD CLOSED 500 FT**  
 W20-3  
 (36" X 36")

**ROAD CLOSED 500 FT**  
 W20-3  
 (36" X 36")

- LEGEND:**
-  SIGNS (N MUTCD), ITEM 619.01
  -  TYPE III CONSTRUCTION BARRICADE, WITH LIGHTING, ITEM 619.04
  -  TYPE 'A' FLASHER LIGHTING FOR SIGNS, ITEM 619.01
  -  TEMPORARY POSITIVE BARRIER CATEGORY 1 - ITEM 619.1711

10 21

<h2 style="margin: 0;">Barton &amp; Loguidice</h2> <p style="font-size: 8px; margin: 0;">UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145 SECTION 7209</p>
<p style="font-size: 8px; margin: 0;">BRUNO ROAD CULVERT REPLACEMENT</p> <p style="font-size: 8px; margin: 0;">TOWN OF CLIFTON PARK</p> <p style="font-size: 8px; margin: 0;">SARATOGA COUNTY</p>
<p style="font-size: 8px; margin: 0;">WORK ZONE TRAFFIC CONTROL CULVERT PLAN</p>
<p>SCALE: NONE</p> <p>DATE ISSUED: 03/2024</p> <p>DRAWING WZTC-4</p>



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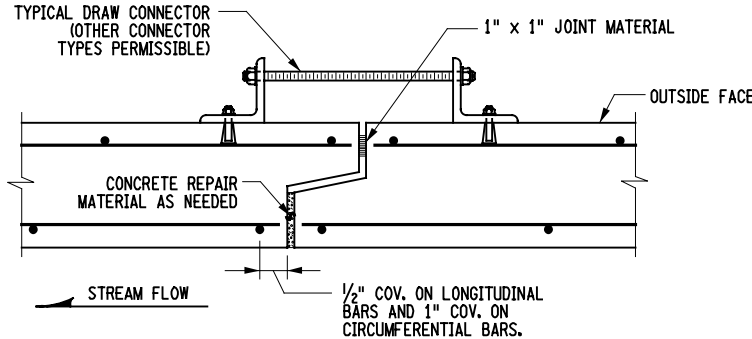
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 IN CHARGE OF: [ ]

PREPARED BY: BARTON & LOGUIDICE, D.P.C.  
 ON: MARCH 12, 2024

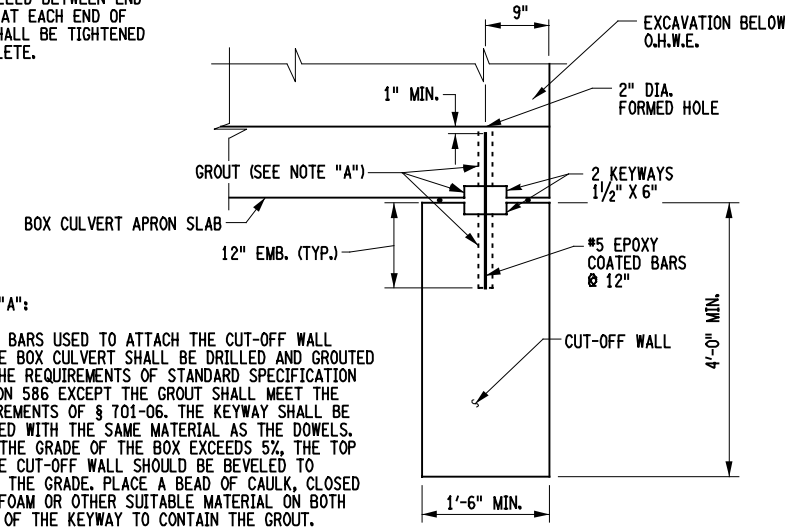


**PRECAST BOX JOINT NOTES:**

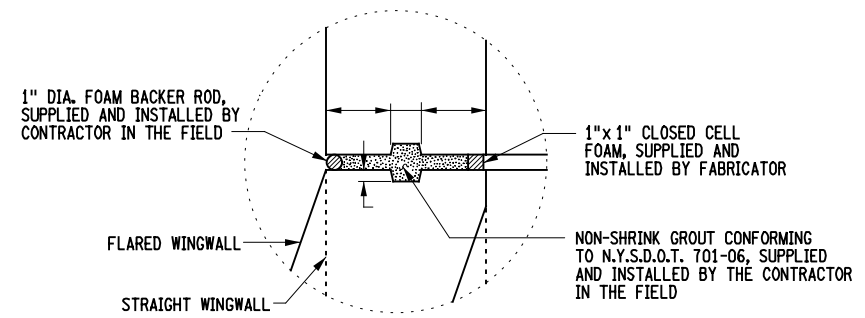
1. THE LENGTH OF EACH CULVERT SEGMENT SHALL BE DETERMINED BY THE FABRICATOR.
2. ACTUAL WALL AND SLAB THICKNESS, REINFORCEMENT SIZE AND SPACINGS TO BE DETERMINED BY THE FABRICATOR'S ENGINEER.
3. ALL REINFORCEMENT COVER ON CAST-IN-PLACE CONCRETE SHALL BE 2", UNLESS OTHERWISE NOTED.
4. ALL REINFORCEMENT ON PRECAST CONCRETE SHALL BE 1", UNLESS OTHERWISE NOTED.
5. DRAW CONNECTORS TO BE INSTALLED BETWEEN END UNIT AND FIRST INTERIOR UNIT AT EACH END OF CULVERT. DRAW CONNECTORS SHALL BE TIGHTENED PRIOR TO BACKFILLING IS COMPLETE.



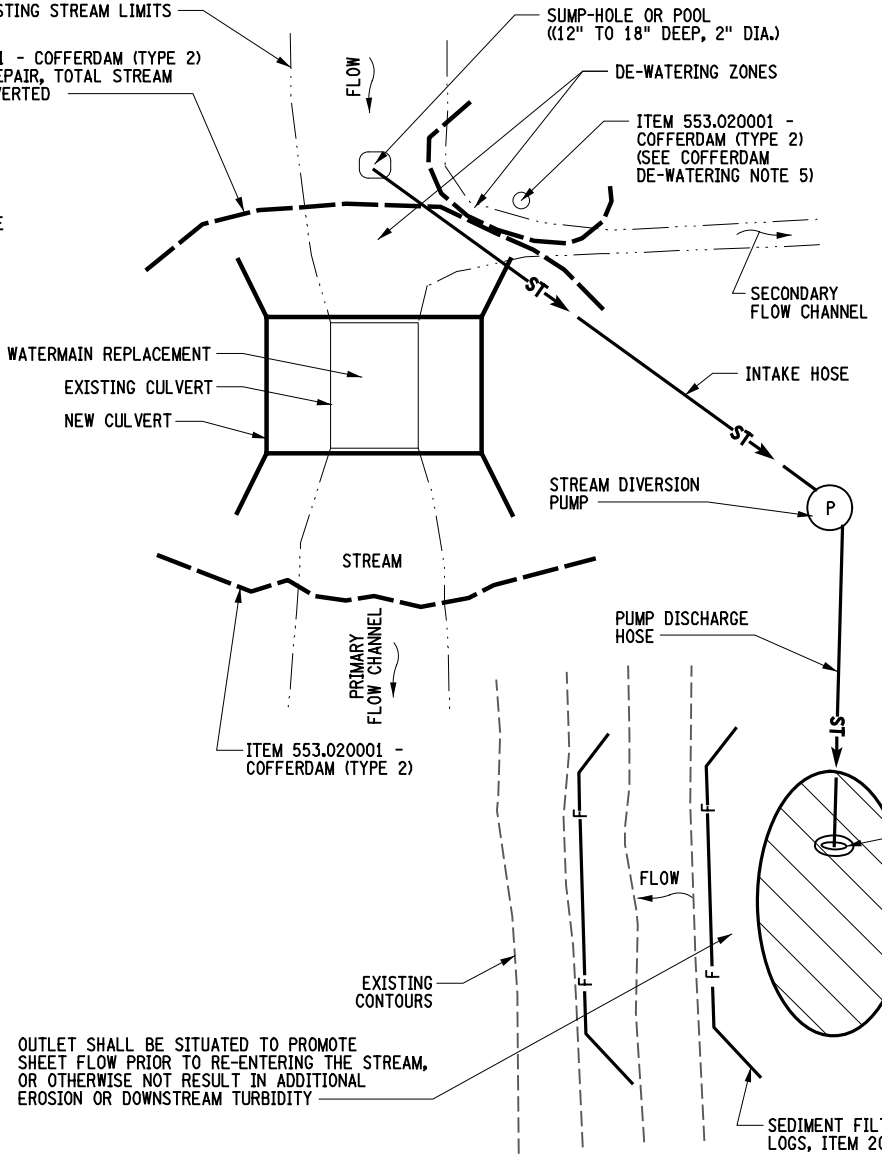
**TYPICAL PRECAST BOX JOINT DETAIL**  
 NOT TO SCALE



**CUTOFF WALL DETAIL**  
 NOT TO SCALE



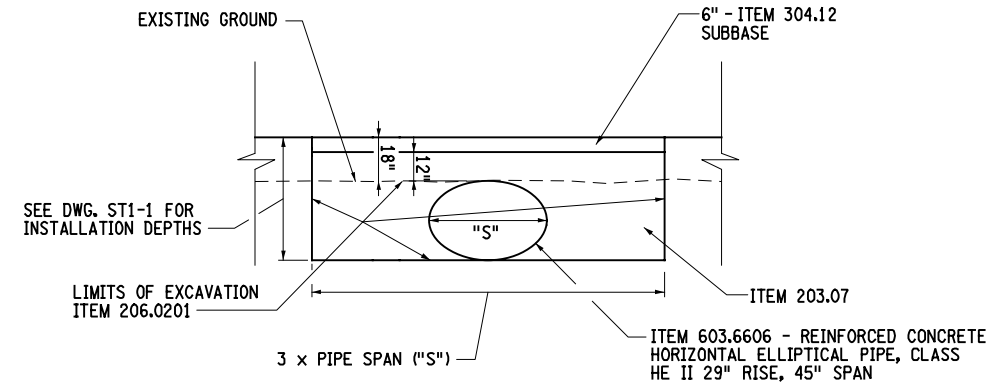
**JOINT DETAIL**  
 NOT TO SCALE



**COFFERDAM DE-WATERING DETAIL**  
 N.T.S.

**COFFERDAM DE-WATERING NOTES:**

1. THE DISCHARGE LOCATION FOR TEMPORARY WATERWAY DIVERSION SHALL BE DETERMINED IN THE FIELD USING THE FOLLOWING HIERARCHY OF LOCATIONS (BEGINNING WITH A):
  - A. OUTLET-CONTROLLED DISCHARGE TO A STABLE, WELL-VEGETATED LOCATION AS FAR FROM THE RECEIVING CHANNEL AS POSSIBLE TO ALLOW FOR FULL INFILTRATION AND TO AVOID SHORT CIRCUITING, IDENTIFYING AND PRIORITIZING THE USE OF EXISTING LOW AREAS OR NATURAL DEPRESSIONS ADJACENT THE WORK AREA;
  - B. WHERE NATURAL DEPRESSIONS OR LOW AREAS ARE NOT AVAILABLE, THE USE OF VEGETATED FILTER STRIP AREAS THAT CAN RECEIVE LOW TO MODERATE DISCHARGE VOLUMES PROVIDED SUFFICIENT OUTLET PROTECTION (E.G. PERFORATED PIPE AT END-OF-HOSE, LEVEL SPREADER, STONE OUTLET) TO PREVENT RE-CONCENTRATED FLOWS OR SCOUR;
  - C. INFILTRATION PITS OR TRENCHES SITUATED IN SOIL MATERIAL WITH GOOD INFILTRATIVE CAPACITY, OR THE CREATION OF TEMPORARY BERMS OR IMPOUNDMENTS IN AREAS OF INFILTRATIVE SOILS;
  - D. TEMPORARY SEDIMENT TRAPS SITUATED SINGULARLY OR IN SERIES AS NECESSARY TO PROVIDE SUFFICIENT SETTLING;
  - E. STRAW-BALE TYPE IMPOUNDMENTS OR DIKES ONLY WHERE NO OTHER PRACTICE IS FEASIBLE, AND IN AREAS WHERE RUNOFF WOULD NORMALLY BE IN THE FORM OF SHEET-FLOW ONLY (I.E. WHERE SLOPES ARE GENTLE AND NO CONCENTRATED FLOWS WOULD ARISE).
2. PUMPS AND HOSES SHALL BE AVAILABLE FOR DIVERSION AND DEWATERING OF STREAM FLOW DURING STREAMBANK OR STREAMBED EXCAVATIONS.
3. WORK SHOULD BE PERFORMED WHEN THERE IS MINIMAL FLOW WITHIN THE CHANNEL, AND PREFEREBLY WHEN THE CHANNEL IS COMPLETELY DRY.
4. ALL WORK TO BE PERFORMED UNDER THIS CONTRACT WILL BE WITHIN THE PUBLIC RIGHT-OF-WAY (ROW). THE RELEASES FOR NON-ESSENTIAL CONTRACT WORK OUTSIDE OF THE EXISTING ROW INCLUDING LANDSCAPING, DRIVEWAY ENHANCEMENT, TEMPORARY DIVERSION STRUCTURE, WILL BE SECURED BY THE TOWN. THE CONTRACTOR SHALL NOT INVADE UPON PRIVATE PROPERTIES OUTSIDE OF THE ROW FOR ANY REASON WITHOUT FIRST SECURING WRITTEN PERMISSION FROM THE PROPERTY OWNER. AREAS OUTSIDE OF THE HIGHWAY BOUNDARY IMPACTED BY THE CONTRACTOR'S WORK OPERATIONS SHALL BE REPLACED IN KIND.
5. FLOW TO THE PRIMARY AND SECONDARY FLOW CHANNELS MUST BE MAINTAINED AT ALL TIMES DURING WORK OPERATIONS. THE CONTRACTOR MAY ELECT TO UTILIZE TWO SEPARATE COFFERDAM SETUPS AT DIFFERENT TIMES (AS SHOWN), TWO SEPARATE STREAM DIVERSION PUMPS (NOT SHOWN), OR SOME OTHER APPROVED METHOD WHEN INSTALLING THE NEW CULVERT AND SECONDARY FLOW CHANNEL IMPROVEMENTS.



**DRAINAGE PIPE INSTALLATION AND TRENCH DETAIL**  
 NTS


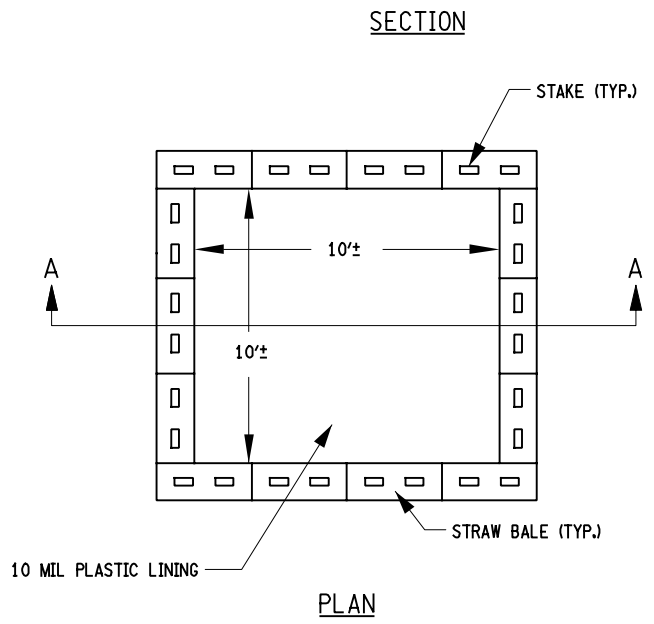
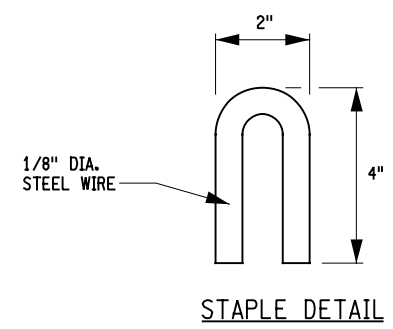
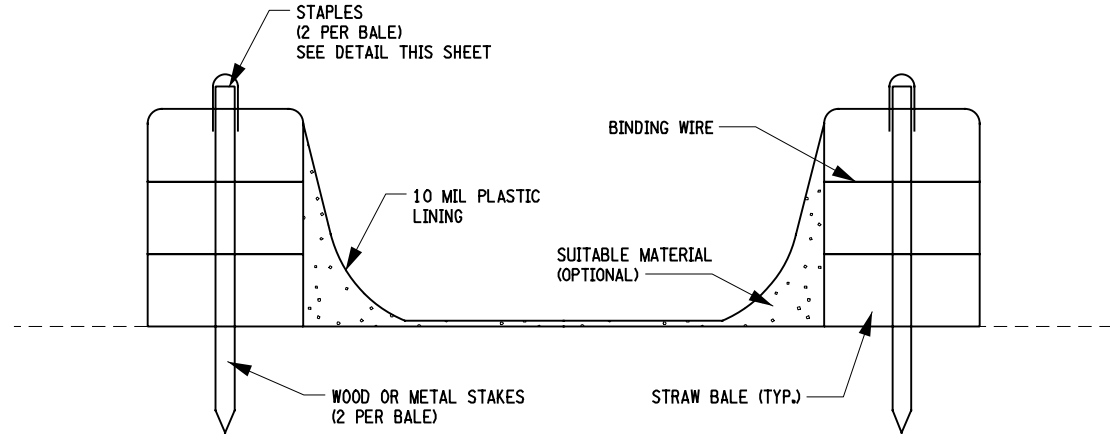
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SARATOGA COUNTY		SARATOGA COUNTY	
MISCELLANEOUS DETAILS			
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DATE ISSUED: 03/2024			
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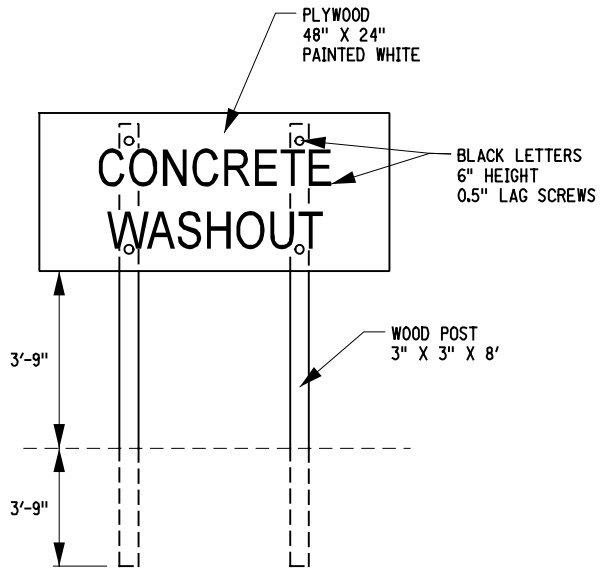
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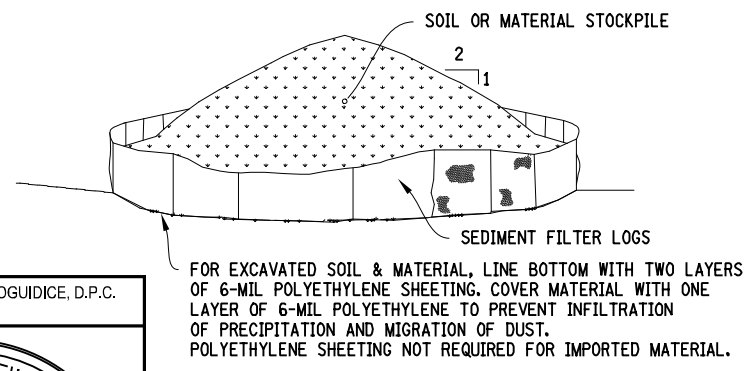
PREPARED BY: BARTON & LOGUIDICE, D.P.C.  
 ON: MARCH 18, 2024

**CONCRETE WASHOUT AREA (ABOVE GROUND)**  
 N.T.S.



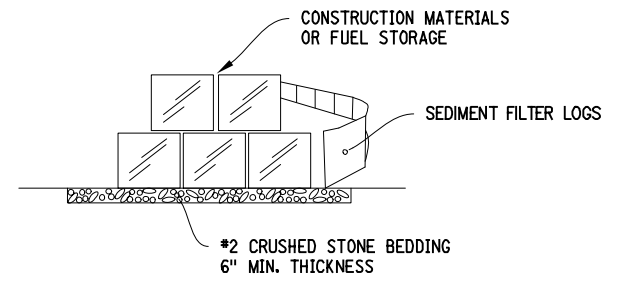
**CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)**



**EXCAVATED AND IMPORTED SOIL AND MATERIAL STOCKPILE**  
 N.T.S.

**STOCKPILE NOTES:**

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE. THE AREA SHALL NOT BE WITHIN THE DRIPLINE OR CANOPY OF EXISTING TREES. DREDGED OR EXCAVATED MATERIALS SHALL BE PLACED UPON SILT FENCE FABRIC.
2. EXCAVATED MATERIALS AND/OR FILL MATERIALS SHALL BE STOCKPILED MORE THAN 100 FEET LANDWARD OF THE WETLAND OR WATER BODY AND SHALL BE CONTAINED BY SEDIMENT FILTER LOGS TO PREVENT EROSION
3. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2(H) TO 1(V).
4. FILTER LOGS SHALL BE PLACED FIVE (5)-FEET DOWNSLOPE OF EACH PILE. UPON COMPLETION OF SOIL STOCKPILING, TOPSOIL SHALL BE STABILIZED WITH SEED AND MULCH IF NOT TO BE DISTURBED/UTILIZED WITHIN FOURTEEN (14) DAYS.
5. FILTER LOGS PLACED ACROSS THE EXISTING ROADWAY SHALL BE TRIANGULAR SILT DIKE AS TO NOT DISTURB THE EXISTING PAVEMENT.
6. COST FOR CONTAINMENT AREA INCLUDED IN VARIOUS ITEMS.




**FUEL, EQUIPMENT, OR MATERIAL STORAGE AREA**  
 N.T.S.

**CONCRETE WASHOUT NOTES:**

1. WASHOUT FACILITIES SHALL BE PROVIDED FOR EVERY PROJECT WHERE CONCRETE WILL BE POURED OR OTHERWISE FORMED ON SITE. THIS FACILITY WILL RECEIVE HIGHLY ALKALINE WASH WATER FROM THE CLEANING OF CHUTES, MIXERS, HOPPERS, VIBRATORS, PLACING EQUIPMENT, TROWELS, AND SCREEDS. UNDER NO CIRCUMSTANCES WILL WASH WATER FROM THESE OPERATIONS BE ALLOWED TO INFILTRATE INTO THE SOIL OR ENTER SURFACE WATERS.
2. ACTUAL LAYOUT AND LOCATION TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY ENGINEER.
3. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 5 FEET OF THE TEMPORARY CONCRETE WASHOUT FACILITY.
4. LOCATE WASHOUT AREA AT LEAST 100-FEET FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS, AND OTHER SURFACE WATERS. DO NOT ALLOW RUNOFF FROM THIS AREA BY CONSTRUCTING A TEMPORARY PIT OR BERMED AREA LARGE ENOUGH FOR LIQUID OR SOLID WASTE.
5. WASH OUT WASTES INTO THE TEMPORARY PIT WHERE THE CONCRETE CAN SET, BE BROKEN UP, AND THEN DISPOSED PROPERLY.
6. TEMPORARY CONCRETE WASHOUT FACILITY (TYPE ABOVE GRADE) SHALL BE CONSTRUCTED WITH A MINIMUM LENGTH, WIDTH, AND DEPTH OF 10 FT. X 10 FT. X 2 FT., BUT WITH SUFFICIENT QUANTITY AND VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
7. STRAW BALES, WOOD STAKES, AND SANDBAG MATERIAL SHALL CONFORM TO THE PROVISIONS IN THE EROSION AND SEDIMENT CONTROL SPECIFICATIONS.
8. PLASTIC LINING MATERIAL SHALL BE A MINIMUM OF 10 MIL IN POLYETHYLENE SHEETING AND SHOULD BE FREE FROM HOLES, TEARS, OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL. THE LINER SHALL BE ANCHORED TO THE TOP OF THE PIT WITH AN EARTHEN BERM, SAND BAGS, STONE, OR OTHER STRUCTURAL APPURTENANCE EXCEPT AT THE ACCESS POINT.
9. IF PREFABRICATED WASHOUTS ARE USED THEY MUST ENSURE THE CAPTURE AND CONTAINMENT OF THE CONCRETE WASH AND BE SIZED BASED ON THE EXPECTED FREQUENCY OF CONCRETE POURS.
10. WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, THE HARDENED CONCRETE SHALL BE REMOVED AND DISPOSED FROM THE SITE OF THE WORK IN A CONSTRUCTION/DEMOLITION LANDFILL.
11. HOLES, DEPRESSIONS, OR OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED AND REPAIRED.
12. TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE MAINTAINED TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM FREEBOARD OF 4-INCHES. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD INCLUDE REMOVING AND DISPOSING OF HARDENED CONCRETE AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION. HARDENED CONCRETE MATERIALS SHOULD BE REMOVED AND DISPOSED.
13. WASHOUT FACILITIES SHALL BE CLEANED, OR NEW FACILITIES SHALL BE CONSTRUCTED AND READY FOR USE ONCE THE WASHOUT IS 75% FULL. ANY EXCESS WASH WATER SHALL BE PUMPED INTO A CONTAINMENT VESSEL AND PROPERLY DISPOSED OF OFF SITE. EXCESS RAINWATER THAT HAS ACCUMULATED OVER HARDENED CONCRETE SHOULD BE PUMPED TO A STABILIZED AREA, SUCH AS A GRASS FILTER STRIP. THE PLASTIC LINER SHALL BE REPLACED WITH EACH CLEANING OF THE WASHOUT FACILITY.
14. THE COST FOR CONCRETE WASHOUTS SHALL BE INCLUDED IN VARIOUS CONTRACT ITEMS.

**FUEL, EQUIPMENT, AND MATERIAL STORAGE NOTES:**

1. AREA CHOSEN FOR STORAGE OPERATIONS SHALL BE DRY AND STABLE. THE AREA SHALL NOT BE WITHIN THE DRIPLINE OR CANOPY OF TREES.
2. ALL EQUIPMENT AND MACHINERY SHALL BE STORED AND SAFELY CONTAINED GREATER THAN 100 FEET LANDWARD OF THE REGULATED WETLAND OR WATER BODY AT THE END OF EACH WORK DAY. THIS WILL SERVE TO AVOID THE INADVERTENT LEAKAGE OF DELETERIOUS SUBSTANCES INTO THE REGULATED AREA.
3. IF STABLE SURFACE NOT AVAILABLE, THE TOP SIX (6) INCHES OF NATIVE MATERIAL SHALL BE EXCAVATED FROM THE MATERIAL/FUEL STORAGE AREA AND STOCKPILED TO REUSE FOR RESTORATION OF THIS AREA. IN THE AREA EXCAVATED, PLACE SEPARATION FABRIC AND SIX (6) INCHES OF #2 CRUSHED STONE BEDDING, SEE SPECIFICATIONS. IF APPROVED BY THE ENGINEER, USE OF EXISTING GRAVEL AREAS MAY BE USED IN LIEU OF EXCAVATION, STONE, AND FABRIC.
4. FILTER LOGS SHALL BE PLACED FIVE (5) FEET DOWN SLOPE OF STORAGE AREA.
5. REMOVE ALL MATERIALS INCLUDING STONE AND FABRIC WHEN NEED FOR STORAGE IS OVER. RESTORE TO ORIGINAL GRADE WITH STOCKPILED EXCAVATED SOIL (NO FOREIGN DEBRIS).
6. COST TO SET UP CONTAINMENT AREA INCLUDED IN VARIOUS CONTRACT ITEMS.

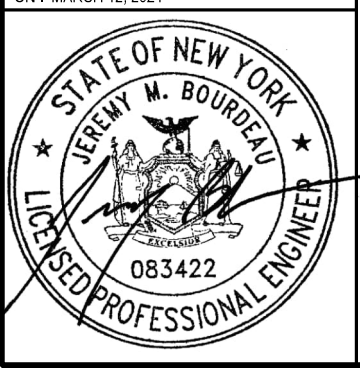
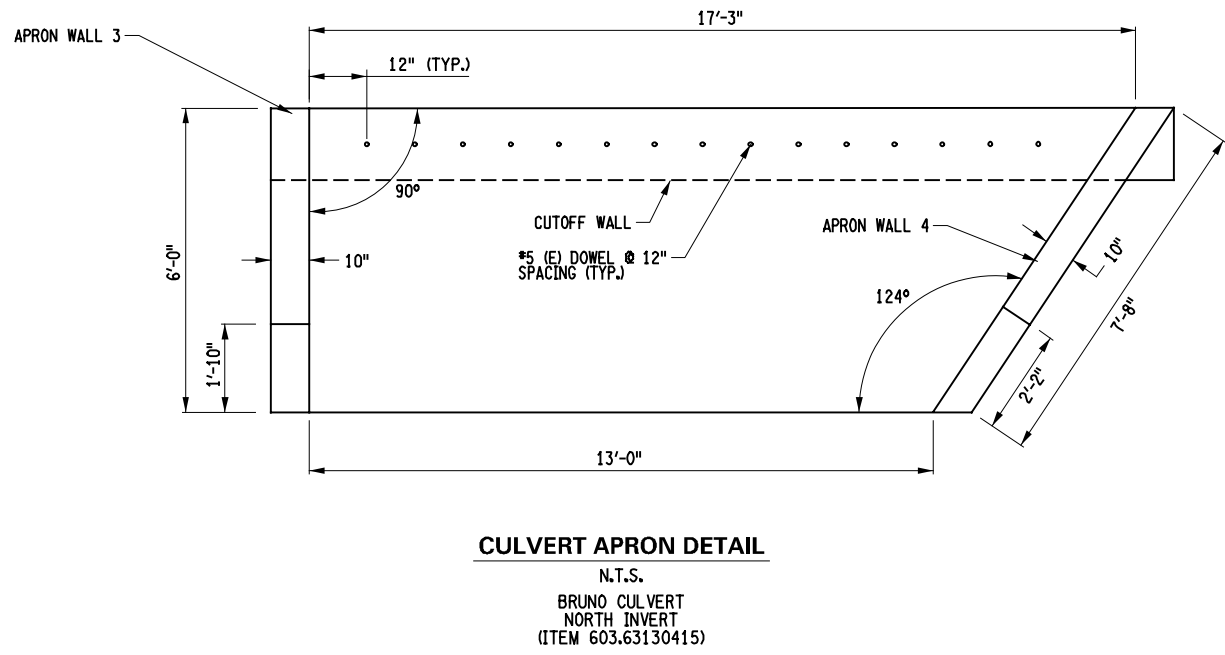
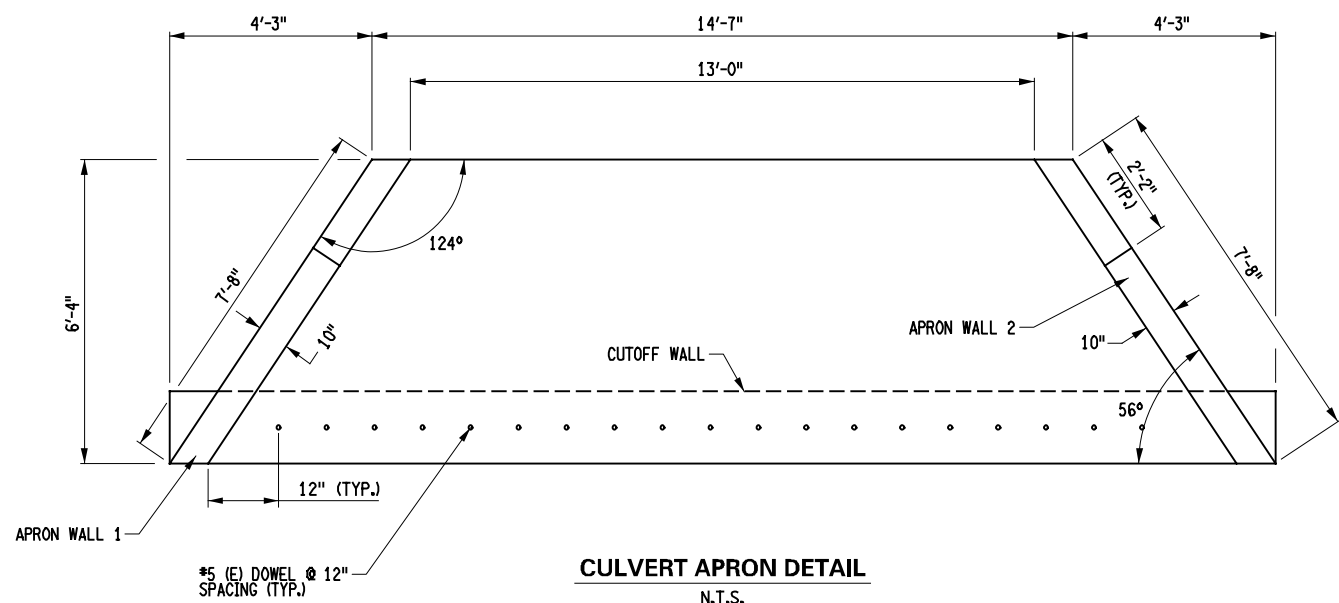
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BRUNO ROAD CULVERT REPLACEMENT	TOWN OF CLIFTON PARK	SARATOGA COUNTY	
MISCELLANEOUS DETAILS			
SCALE: AS SHOWN			
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 DUG/PJC  
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PREPARED BY: BARTON & LOGUIDICE, D.P.C.  
 ON: MARCH 12, 2024

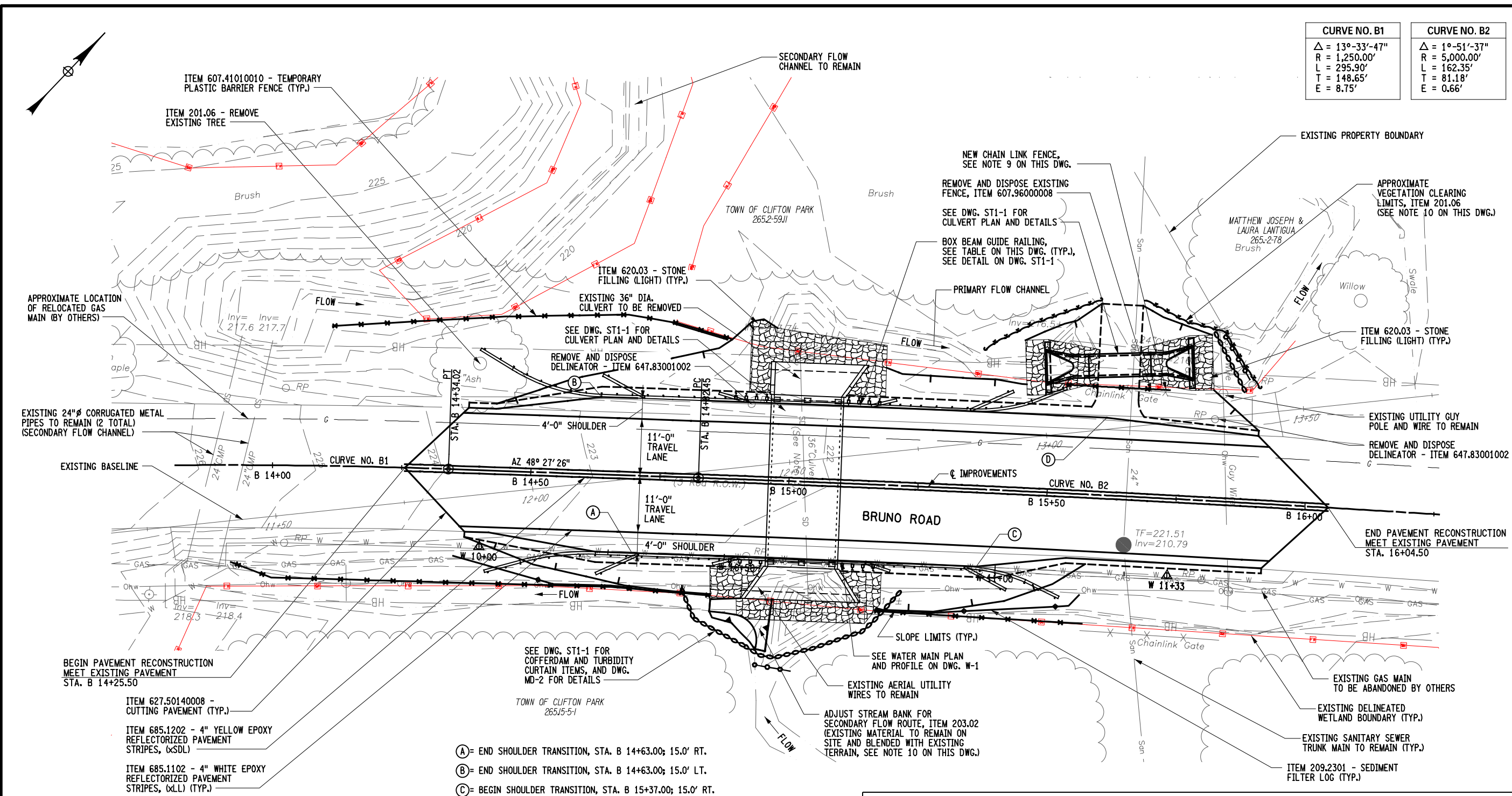
FRESHWATER WETLANDS AND STREAM DISTURBANCE NOTES

- PRECAUTIONS AGAINST CONTAMINATION OF WATERS - ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO PRECLUDE CONTAMINATION OF ANY WETLAND OR WATERWAY BY SUSPENDED SOLIDS, SEDIMENTS, FUELS, SOLVENTS, LUBRICANTS, EPOXY COATINGS, PAINTS, CONCRETE, LEACHATE OR ANY OTHER ENVIRONMENTALLY DELETERIOUS MATERIALS ASSOCIATED WITH THE PROJECT.
- NO EQUIPMENT IN THE WATER - HEAVY EQUIPMENT OPERATION IN THE WATER IS PROHIBITED. WITH BACKHOES AND SIMILAR HEAVY EQUIPMENT, THE BUCKET MAY ENTER THE WATER.
- CONCRETE LEACHATE - DURING CONSTRUCTION, NO WET OR FRESH CONCRETE OR LEACHATE SHALL BE ALLOWED TO ESCAPE INTO ANY WETLANDS OR WATERS OF NEW YORK STATE, NOR SHALL WASHINGS FROM READY-MIXED CONCRETE TRUCKS, MIXERS, OR OTHER DEVICES BE ALLOWED TO ENTER ANY WETLAND OR WATERS. ONLY WATERTIGHT OR WATERPROOF FORMS SHALL BE USED. WET CONCRETE SHALL NOT BE POURED TO DISPLACE WATER WITHIN THE FORMS.
- USE WATERTIGHT, WATERPROOF FORMS - ONLY WATERTIGHT OR WATERPROOF FORMS SHALL BE USED. WET CONCRETE SHALL NOT BE POURED TO DISPLACE WATER WITHIN THE FORMS.
- MAINTAIN WATER FLOW DURING WORK - DURING PERIODS OF WORK ACTIVITY, FLOW IMMEDIATELY DOWNSTREAM OF THE WORK SITE SHALL EQUAL FLOW IMMEDIATELY UPSTREAM OF THE WORK AREA.
- TURBID DISCHARGES - VISIBLY TURBID DISCHARGES FROM LAND CLEARING, GRADING OR EXCAVATION ACTIVITIES, OR DE-WATERING OPERATIONS SHALL NOT ENTER THE STREAM, NAVIGABLE WATER, OR WETLAND. PRIOR TO ENTRY INTO STREAM, NAVIGABLE WATER OR WETLAND, ANY SUCH DISCHARGE SHALL BE:
  - RETAINED IN AN APPROPRIATELY MAINTAINED UPLAND SETTLING BASIN;
  - FILTERED THROUGH CRUSHED STONE, SAND, STRAW BALES, SILT SCREENING (MAXIMUM OPENING SIZE OF U.S. SIEVE NUMBER 20), ETC.; OR,
  - DIRECTED TO A GRASSY UPLAND AREA A SUFFICIENT DISTANCE FROM THE STREAM TO PREVENT CHANGE IN TURBIDITY OF THE RECEIVING WATER.
- CLEARING OF VEGETATION - CLEARING OF NATURAL VEGETATION SHALL BE LIMITED TO THAT MATERIAL WHICH POSES A HAZARD OR A HINDRANCE TO THE CONSTRUCTION ACTIVITY.
- FILTER FABRIC AROUND WORK AREA - ALL FILTER FABRIC (TURBIDITY) CURTAIN WEIGHTED ACROSS THE BOTTOM AND SUSPENDED AT THE TOP BY FLOATS SHALL BE POSITIONED TO ENCLOSE THE WORK SITE BEFORE COMMENCING OPERATIONS. THE CURTAIN SHALL REMAIN IN PLACE AND IN FUNCTIONAL CONDITION DURING ALL PHASES OF THE OPERATIONS AND REMAIN IN PLACE UNTIL TURBIDITY INSIDE THE CURTAIN NO LONGER EXCEEDS AMBIENT LEVELS.
- SANDBAGS - SANDBAGS SHALL BE OF THE FILTER FABRIC TYPE, DOUBLE BAGGED AND INDIVIDUALLY TIED TO PREVENT SAND LEAKAGE. THEY SHALL BE PLACED AND REMOVED MANUALLY TO PREVENT SPILLAGE. ONLY CLEAN SAND, FREE OF DEBRIS, SILT, FINE PARTICLES, OR OTHER FOREIGN SUBSTANCES SHALL BE USED TO FILL THE BAGS. ALL BAGS SHALL BE FILLED AT AN UPLAND SITE WHERE SPILLAGE WILL NOT ENTER THE WATER, AND ALL SAND STORED ON-SITE SHALL BE SURROUNDED BY STRAW BALES OR COVERED WITH A TARP TO PREVENT EROSION OF THE SAND INTO THE WATER.
- DEWATERING WITHIN COFFERDAM - DEWATERING WITHIN THE COFFER(S) SHALL BE PERFORMED SO AS TO MINIMIZE SILTATION AND TURBIDITY. WATER TAKEN FROM THE COFFERED AREA WILL BE PASSED THROUGH SETTLING BASINS, FILTER MATERIAL OR OTHER ACCEPTED DEVICES TO PREVENT THE DISCHARGE OF TURBID WATER INTO THE RECEIVING WATERBODY. ALL FISH TRAPPED WITHIN THE COFFERDAM DURING THE DEWATERING PROCESS SHALL BE RETURNED, ALIVE AND UNHARMED, TO THE WATER OUTSIDE THE CONFINES OF THE COFFERDAM.
- SETTLING OF SEDIMENTS WITHIN COFFERDAM - THE COFFERDAM SHALL REMAIN IN PLACE UNTIL THE WATER CLARITY IN THE COFFERED AREA MATCHES THE OPEN WATER.
- CLEAN FILL ONLY - ALL FILL SHALL CONSIST OF CLEAN SOIL, SAND AND/OR GRAVEL THAT IS FREE OF THE FOLLOWING SUBSTANCES: ASPHALT, SLAG, FLYASH, BROKEN CONCRETE, DEMOLITION DEBRIS, GARBAGE, HOUSEHOLD REFUSE, TIRES, WOODY MATERIALS INCLUDING TREE OR LANDSCAPE DEBRIS, AND METAL OBJECTS. THE INTRODUCTION OF MATERIALS TOXIC TO AQUATIC LIFE IS EXPRESSLY PROHIBITED.
- NO ROCK FROM STREAM - NO ROCK FOR USE IN CONSTRUCTION IS TO COME FROM THE STREAM.
- CONSOLIDATION OF ARMOR STONE PROHIBITED - ARMOR STONE MAY NOT BE CONSOLIDATED WITH CONCRETE OR BY ANY OTHER MEANS.
- MINIMIZE ADVERSE IMPACTS TO WETLANDS, WILDLIFE, WATER - ALL WORK MUST BE PERFORMED IN A MANNER WHICH MINIMIZES ADVERSE IMPACTS TO WETLANDS, WILDLIFE, WATER QUALITY AND NATURAL RESOURCES.
- INVASIVE SPECIES - TO PREVENT THE UNINTENTIONAL INTRODUCTION OR SPREAD OF TERRESTRIAL AND AQUATIC INVASIVE SPECIES, THE CONTRACTOR MUST ENSURE THAT ALL CONSTRUCTION EQUIPMENT BE CLEANED OF MUD, SEEDS, VEGETATION AND OTHER DEBRIS PRIOR TO ENTERING ANY CONSTRUCTION AREA WITHIN OR IMMEDIATELY ADJACENT TO WATERS OF THE STATE; INCLUDING STATE REGULATED FRESHWATER WETLANDS AND THE ASSOCIATED 100 FOOT ADJACENT AREA. THE CONTRACTOR SHALL ALSO CLEAN EQUIPMENT OF MUD, SEEDS, VEGETATION AND OTHER DEBRIS BEFORE LEAVING ANY CONSTRUCTION SITE KNOWN TO HARBOR INVASIVE SPECIES. WASH WATER AND DEBRIS SHALL BE SUFFICIENTLY CONTAINED OR FILTERED TO PREVENT REINTRODUCTION OF MATERIALS INTO ANY STATE REGULATED WATERBODY OR WETLAND. NO INVASIVE SPECIES ARE KNOWN TO BE PRESENT WITHIN OR ADJACENT TO THE SITE.
- STOCKPILE AREAS - EXCAVATED MATERIALS AND/OR FILL MATERIALS SHALL BE STOCKPILED MORE THAN 100 FEET LANDWARD OF THE WETLAND OR WATER BODY AND SHALL BE CONTAINED BY FIBER LOGS TO PREVENT EROSION.
- NO CONSTRUCTION DEBRIS IN WETLAND OR ADJACENT AREA - ANY DEBRIS OR EXCESS MATERIAL FROM CONSTRUCTION OF THIS PROJECT SHALL BE COMPLETELY REMOVED FROM THE ADJACENT AREA (UPLAND) AND REMOVED TO AN APPROVED UPLAND AREA FOR DISPOSAL. NO DEBRIS IS PERMITTED IN WETLANDS AND/OR PROTECTED BUFFER AREAS.
- EQUIPMENT STORAGE 100' FROM WETLAND, WATER BODY - ALL EQUIPMENT AND MACHINERY SHALL BE STORED AND SAFELY CONTAINED GREATER THAN 100 FEET LANDWARD OF THE REGULATED WETLAND OR WATER BODY AT THE END OF EACH WORK DAY. THIS WILL SERVE TO AVOID THE INADVERTENT LEAKAGE OF DELETERIOUS SUBSTANCES INTO THE REGULATED AREA. IF EQUIPMENT CANNOT BE STORED 100 FEET FROM THE WETLAND, THE CONTRACTOR SHALL POSITION THE EQUIPMENT AS FAR AWAY FROM THE WETLANDS AS POSSIBLE AND INSTALL FIBER ROLLS AROUND THE EQUIPMENT AT THE END OF EACH WORK DAY.
- WETLAND WORK LIMITED TO AREA SHOWN ON WORK PLAN - DISTURBANCE TO THE WETLAND AND ITS REGULATED ADJACENT AREA SHALL BE STRICTLY LIMITED TO THE WORK AREA IDENTIFIED IN THE WORK PLAN.
- FENCE WETLAND BOUNDARY - A TEMPORARY, PROJECT-LIMITING FENCE SHALL BE ERECTED PRIOR TO THE COMMENCEMENT OF ANY PERMITTED ACTIVITIES ALONG THE WETLAND BOUNDARY IN ORDER TO PREVENT THE INADVERTENT INTRUSION OF EQUIPMENT INTO THE PROTECTED AREA. THE FENCE SHALL BE MAINTAINED UNTIL PROJECT COMPLETION, SEE DWG. GP-1 FOR LOCATIONS.

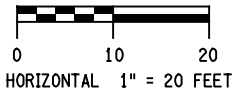
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<b>Barton &amp; Loguidice</b> <small>UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145 SECTION 7209</small>	
BRUNO ROAD CULVERT REPLACEMENT	TOWN OF CLIFTON PARK
SARATOGA COUNTY	
MISCELLANEOUS DETAILS	
SCALE: NONE	
DATE ISSUED: 03/2024	
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IN CHARGE OF TCB DESIGNED BY DUG/PUC CHECKED BY TCB DRAFTED BY DUG/PUC CHECKED BY PUC



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$E = 8.75'$	$E = 0.66'$



PREPARED BY: BARTON & LOGUIDICE, D.P.C.  
 ON: MARCH 18, 2024



**NOTES:**

- TREES, BUSHES, AND SHRUBS TO BE REMOVED AND / OR TRIMMED SHALL BE INCLUDED UNDER ITEM 201.06.
- REFER TO DWG. TS-1 FOR TYPICAL SECTION.
- REFERENCE NYSDOT STANDARD SHEET 685-01 (SHEETS 1 THRU 9) FOR PAVEMENT MARKING DETAILS, APPLICATIONS, AND LAYOUTS.
- ALL EXISTING SIGNS SHALL REMAIN UNLESS OTHERWISE INDICATED ON THE PLANS.
- ALL LANE AND FULL BARRIER LINES SHALL BE 4" WIDE.
- THE CONTRACTOR WILL BE HELD LIABLE FOR ANY DAMAGES DONE. ANY SUCH INJURIES OR DAMAGES SHALL BE SATISFACTORILY REPAIRED OR ITEMS REPLACES AT THE CONTRACTOR'S EXPENSE.
- THE ENTIRE PROJECT WORK AREA IS WITHIN THE 100 FT. WETLAND BUFFER.
- SEE DWG. MD-1 FOR EXISTING PIPE REMOVAL DETAIL.

**NOTES CONTINUED:**

- FENCE SHALL INCLUDE THREE (3) END POSTS AND ONE (1) GATE POST. FENCE INSTALLATION SHALL BE IN ACCORDANCE WITH ITEM 607.3001 - OPTIONAL CHAIN LINK FENCE, TYPE I, WITH TOP RAIL 4 FEET HIGH, ITEM 607.4035 - OPTIONAL FENCE GATE (SINGLE LEAF 10 FEET OPENING, 4 FEET HIGH), AND STANDARD DETAIL DRAWINGS 607-04 AND 607-06.
- WHEN EXCAVATING, MOVING, STOCKPILING, OR SPREADING TOPSOIL OR EXCAVATED MATERIAL, THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO COMPLY WITH CURRENT FEDERAL, STATE AND LOCAL GUIDELINES AND REQUIREMENTS TO PREVENT THE SPREAD OF INVASIVE PLANT SPECIES, SPECIFICALLY PHRAGMITES AUSTRALIS (COMMON REED), LYTHRUM SALICARIA (PURPLE LOOSESTRIFE), AND ANY OTHER NOXIOUS OR INVASIVE PLANT SPECIES IDENTIFIED. THE CONTRACTOR SHALL REFER TO NYSDOT STANDARD SPECIFICATION SECTION 107-01 FOR ADDITIONAL INVASIVE SPECIES PRECAUTIONS. THE CONTRACTOR SHALL THOROUGHLY SANITIZE ALL CONSTRUCTION EQUIPMENT, VEHICLES AND APPURTENANCES OPERATING OR BEING PLACED IN INFESTED AREAS PRIOR TO MOVING TO NON-INFESTED AREAS. NO EXCAVATED MATERIAL FROM WITHIN THE DELINEATED WETLAND AREA SHALL BE REMOVED FROM THE PROJECT SITE.

- (A) = END SHOULDER TRANSITION, STA. B 14+63.00; 15.0' RT.
- (B) = END SHOULDER TRANSITION, STA. B 14+63.00; 15.0' LT.
- (C) = BEGIN SHOULDER TRANSITION, STA. B 15+37.00; 15.0' RT.
- (D) = BEGIN SHOULDER TRANSITION, STA. B 15+61.00; 15.0' LT.

**TABLE OF GUIDE RAILING INSTALLATION**

STATION	SIDE	LENGTH (LF)	PAYMENT FACTOR	RADIUS	ITEM 568.54 (LF)	ITEM 568.70 (LF)	ITEM 606.100002 (LF)	ITEM 606.120101 (EA)	ITEM 606.120201 (EA)	ITEM 646.22 (EA)	ITEM 646.31 (EA)
B 14+40.00	B 14+63.00	LEFT	25.1	1.0							
B 14+63.00	B 14+95.00	LEFT	32.0	1.0							
B 14+95.00	B 15+11.00	LEFT	16.0	1.0	16.0	32.0			1.0	1.0	
B 15+11.00	B 15+35.50	LEFT	24.5	1.0		24.5					
B 15+35.50	B 15+47.50	LEFT	12.0	1.0			12.0				
B 15+47.50	B 15+54.50	LEFT	7.1	1.0				1.0		2.0	1.0
B 14+41.50	B 14+48.00	RIGHT	7.1	1.0				1.0		2.0	1.0
B 14+48.00	B 14+63.00	RIGHT	15.0	1.0			15.0				
B 14+63.00	B 14+95.00	RIGHT	32.0	1.0							
B 14+95.00	B 15+11.00	RIGHT	16.0	1.0	16.0	32.0					
B 15+11.00	B 15+35.50	RIGHT	24.5	1.0		24.5					
B 15+35.50	B 15+47.50	RIGHT	12.0	1.0			12.0				
B 15+47.50	B 15+54.50	RIGHT	7.1	1.0				1.0		1.0	1.0
TOTAL					32.0	113.0	39.0	3.0	1.0	6.0	4.0

- 568.54 - STEEL BRIDGE RAILING (THREE RAIL)
- 568.70 - TRANSITION BRIDGE RAILING
- 606.100002 - BOX BEAM GUIDE RAILING SHOP BENT
- 606.120101 - BOX BEAM GUIDE RAILING END PIECE
- 606.120201 - BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA
- 646.22 - DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS
- 646.31 - STEEL POST, 1.1 1B/FT.

15  
21

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BRUNO ROAD  
CULVERT REPLACEMENT

TOWN OF CLIFTON PARK

SARATOGA COUNTY

BRUNO ROAD  
GENERAL PLAN

SCALE: AS SHOWN  
 DATE ISSUED: 03/20/24  
 DRAWING  
 GP-1



FILE NAME = L:\MSTN Projects\1600\1646.005.001 Clifton Park Culverts\WSTN\Bruno Road\022a-Bruno Rd Culvert Plan.dgn  
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 DESIGNED BY DJG/PJC  
 CHECKED BY JMB  
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 DUG/PJC  
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**CULVERT NOTES**

DESIGN SPECIFICATION: NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES WITH ALL PROVISIONS IN EFFECT AS OF JANUARY 2024. (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AT 28 DAYS:  $f'_c = 3000$  PSI)

LIVE LOAD: HL-93, IMPACT INCLUDED ON STRUCTURES WITH LESS THAN 2'-0" OF FILL

CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED JANUARY 1, 2024 WITH CURRENT ADDITIONS AND MODIFICATIONS.

BACKFILL AROUND THE PRECAST CONCRETE CULVERT UNITS SHALL BE PLACED IN A MAXIMUM LOOSE LIFT THICKNESS OF 6 INCHES AND BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY.

ALL MATERIAL FALLING IN THE AREA BELOW AND ADJACENT TO THE CULVERT SHALL BE REMOVED BY THE CONTRACTOR.

THE PRECAST MANUFACTURER SHALL PROVIDE ALL DESIGN DETAILS NOT INCLUDED IN THE PLANS TO THE TOWN FOR REVIEW AND APPROVAL. DESIGN DETAILS SUBMITTED FOR APPROVAL SHALL INCLUDE, BUT NOT BE LIMITED TO, SLAB AND WALL THICKNESS, ALL REQUIRED REINFORCING AND JOINT DETAILS FOR THE PRECAST CULVERTS AND END SECTIONS.

BOX CULVERT AND END SECTIONS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ITEM 603.63130415.

**COFFERDAM NOTES**

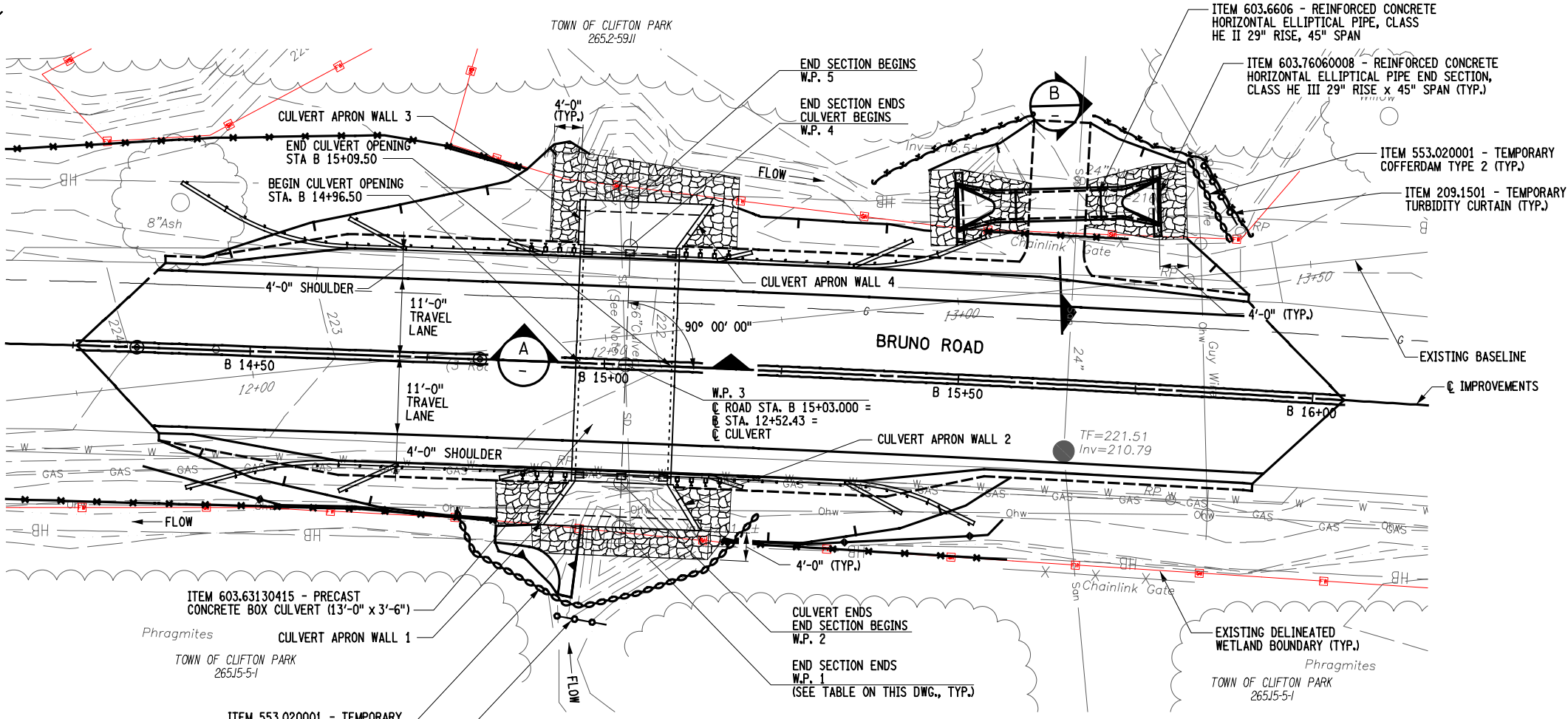
SHOULD FIELD CONDITIONS REQUIRE A CHANGE FROM THE TYPE OF COFFERDAM SYSTEM SHOWN ON THE PLANS, THE TOWN SHALL CONTACT THE ENGINEER FOR COORDINATION WITH APPROPRIATE AGENCIES TO APPROVE THE CHANGE.

DEWATERING OF THE COFFERDAM SHALL BE ACCOMPLISHED BY PUMPING THE WATER TO AN APPROVED UPLAND VEGETATED AREA OUTSIDE OF THE STREAMBED AS SHOWN ON THE PLANS AND/OR APPROVED BY THE ENGINEER. TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL, SUCH AS HAY BALES OR APPROVED EQUAL MAY BE REQUIRED AS DETERMINED BY THE ENGINEER. NO SETTLEMENT BASIN SHALL BE CONSTRUCTED.

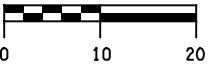
DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL CONDUCT OPERATIONS IN SUCH A MANNER AS TO PREVENT OR REDUCE TO A MINIMUM ANY DAMAGE TO ANY STREAM FROM POLLUTION BY DEBRIS, SEDIMENT OR OTHER FOREIGN MATERIAL, OR FROM MANIPULATION OF EQUIPMENT AND/OR MATERIALS IN OR NEAR SUCH STREAMS.

THE CONTRACTOR SHALL NOT RETURN DIRECTLY TO A STREAM ANY WATER WHICH HAS BEEN USED FOR WASH PURPOSE OR OTHER SIMILAR OPERATION WHICH CAUSE THIS WATER TO BECOME POLLUTED WITH SAND, SILT, CEMENT, OIL, OR OTHER IMPURITIES. IF THE CONTRACTOR USES WATER FROM A STREAM, THE CONTRACTOR SHALL CONSTRUCT AN INTAKE OR TEMPORARY DAM REQUIRED TO PROTECT AND MAINTAIN WATER RIGHTS AND SUSTAIN FISH LIFE DOWNSTREAM.

PREPARED BY: BARTON & LOGUIDICE, D.P.C.  
ON: MARCH 12, 2024



**CULVERT PLAN**  
SCALE: 1" = 20'-0"

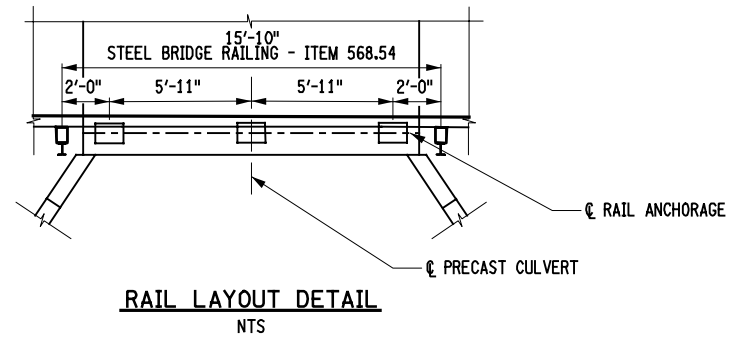


BOX CULVERT DESIGN DATA	
CLEAR SPAN, FT.	13.0
STRUCTURE RISE, FT.	3.5
MIN. FILL HEIGHT, FT.	0.3
MAX. FILL HEIGHT, FT.	0.81
(CSKEW) SKEW ANGLE $\perp$ TO $\odot$ OF ROADWAY, DEG.	0.0
LIVE LOAD	HL-93

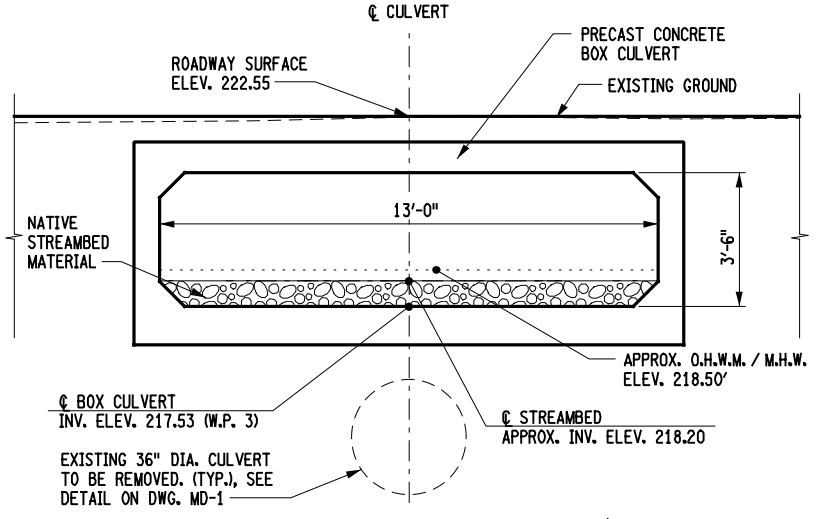
NOTE: BASED ON ASSUMED TOP SLAB THICKNESS OF 0.83', THE FABRICATOR SHALL ADJUST BASED ON ACTUAL TOP SLAB THICKNESS. MEASURED FROM THE TOP OF THE TOP SLAB TO THE TOP OF THE PAVEMENT.

CULVERT INVERT LAYOUT TABLE			
POINT NO.	$\odot$ STA.	OFFSET	ELEVATION
W.P. 1	15+03.00	13.22' RT.	217.53
W.P. 2		16.67' RT.	
W.P. 3		0.0'	
W.P. 4		16.67' LT.	
W.P. 5		30.38' LT.	

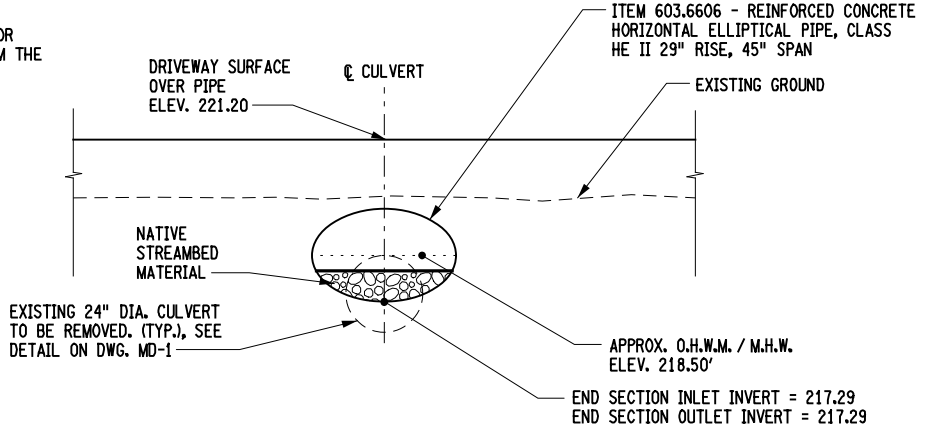
WINGWALL DATA TABLE (SEE ELEVATION ON DWG. ST1-2)			
LOCATION	ELEVATION A	ELEVATION B	DIMENSION "X"
APRON WALL 1	223.04	219.50	2'-2"
APRON WALL 2	222.82	219.50	2'-2"
APRON WALL 3	223.04	220.50	1'-10"
APRON WALL 4	222.82	220.50	2'-2"



**RAIL LAYOUT DETAIL**  
NTS



**BOX CULVERT TYPICAL SECTION A**  
SCALE: 1" = 5'-0"



**CORRUGATED ALUMINUM PIPE TYPICAL SECTION B**  
SCALE: 1" = 5'-0"



**Barton & Loguidice**

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BRUNO ROAD  
CULVERT REPLACEMENT  
TOWN OF CLIFTON PARK  
SARATOGA COUNTY

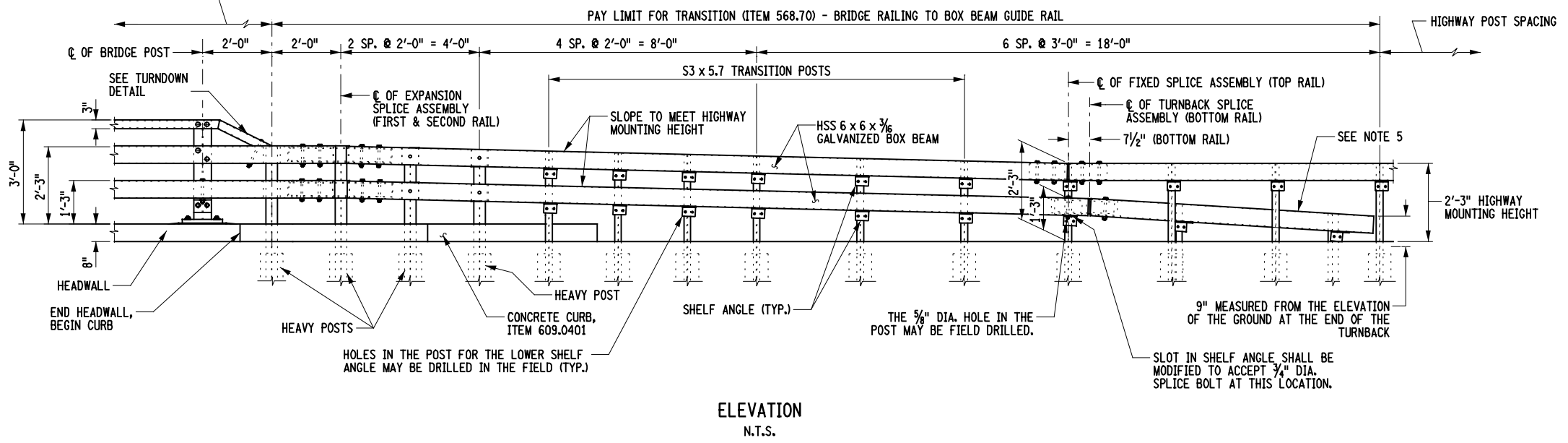
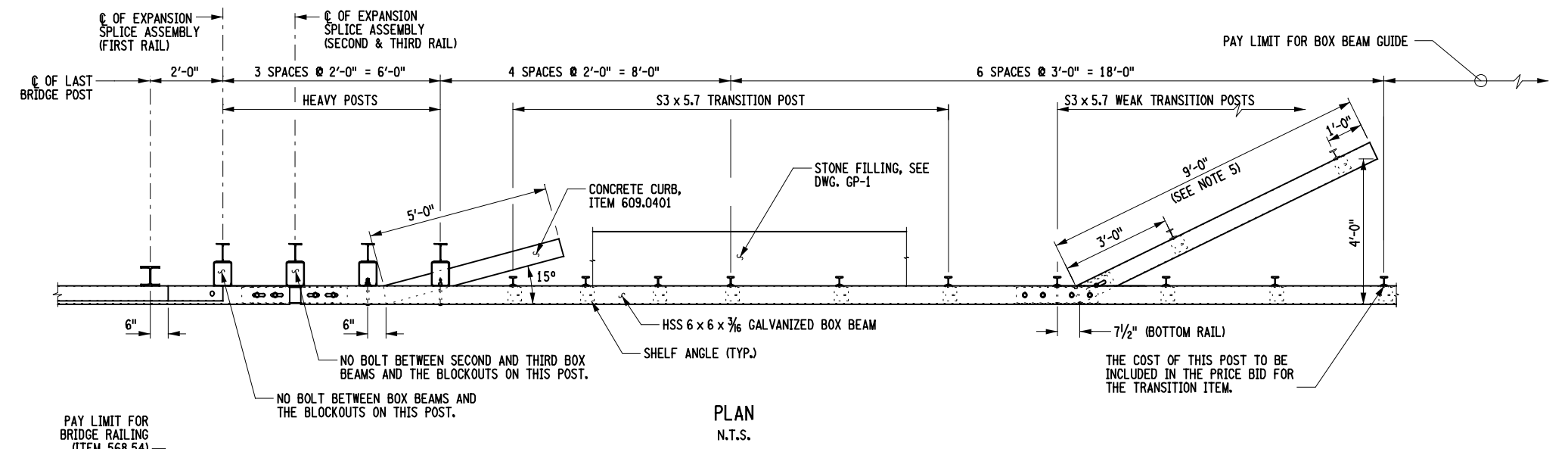
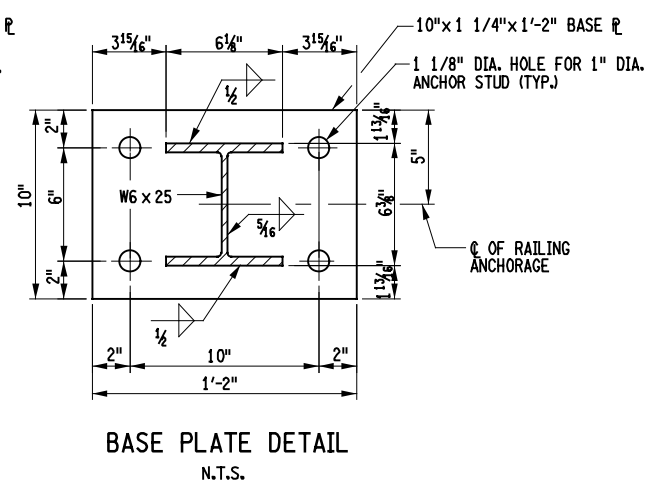
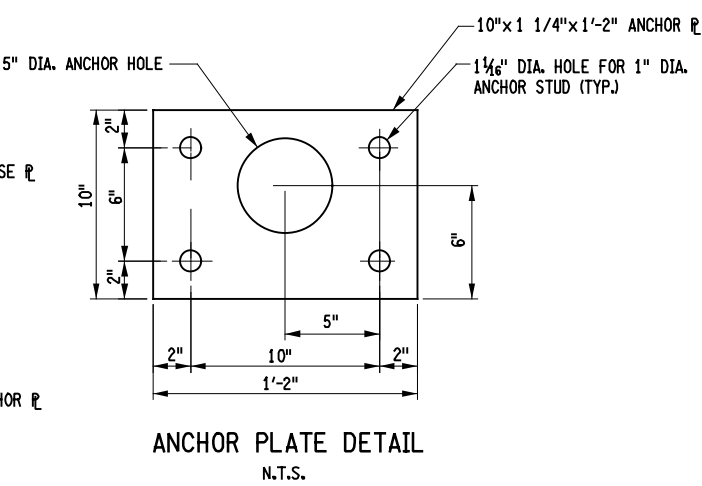
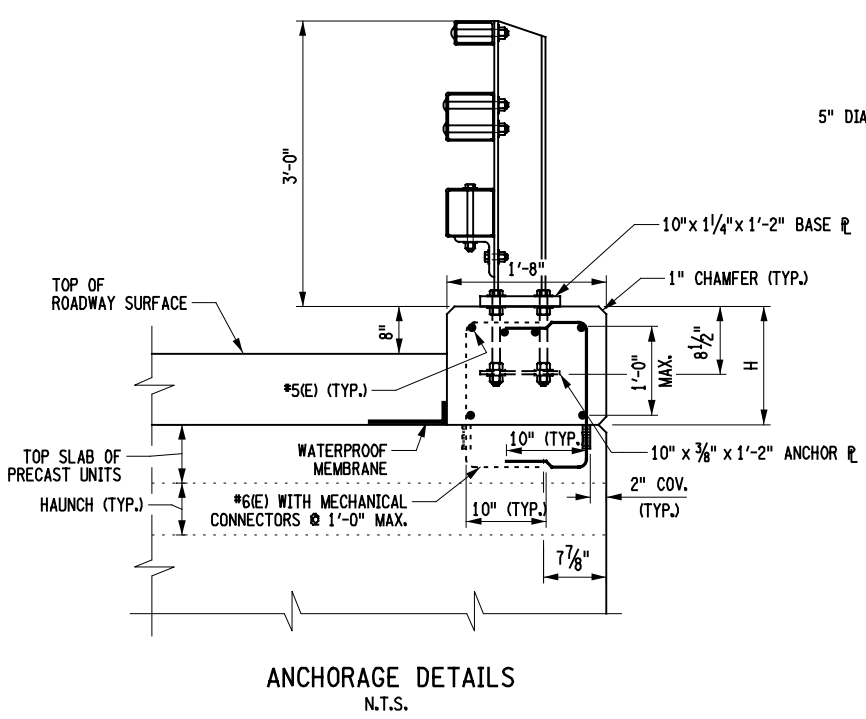
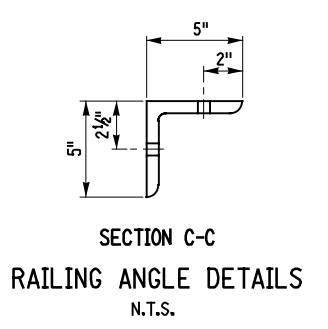
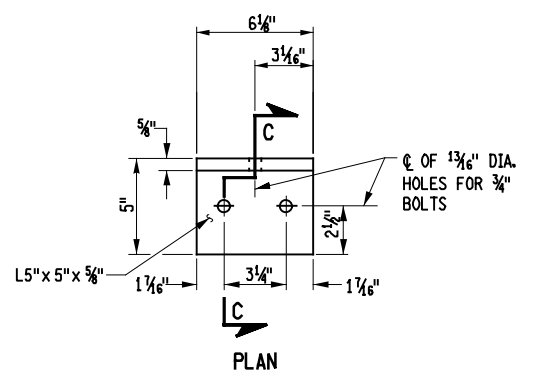
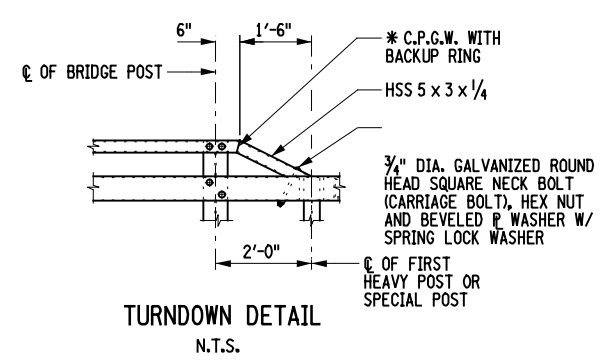
BRUNO ROAD  
CULVERT PLAN  
AND SECTION

SCALE: AS SHOWN  
DATE ISSUED: 03/2024  
DRAWING  
ST1-1




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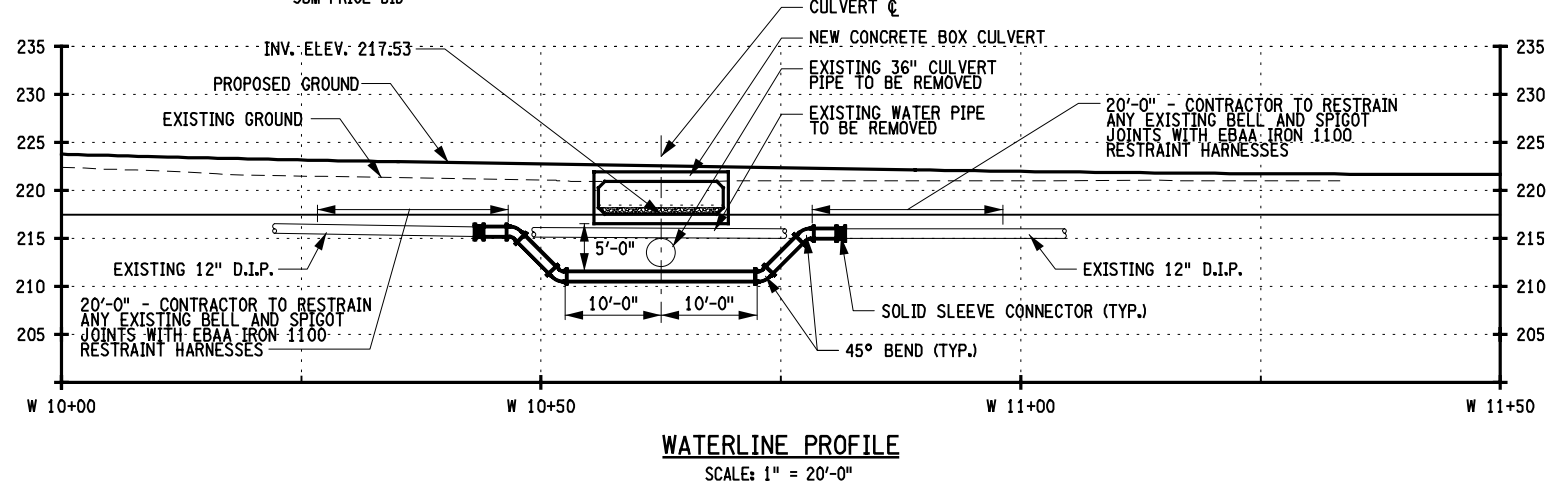
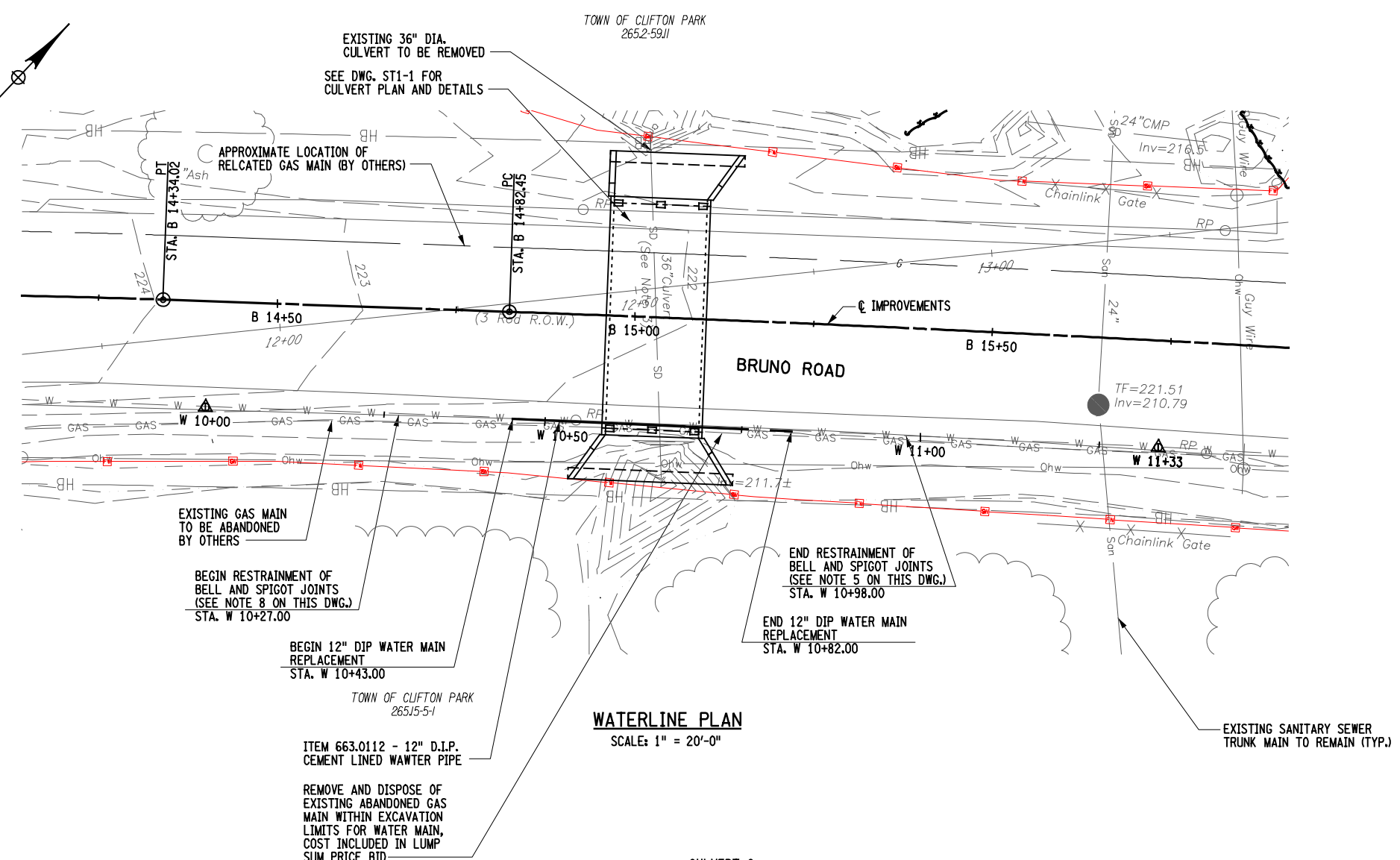
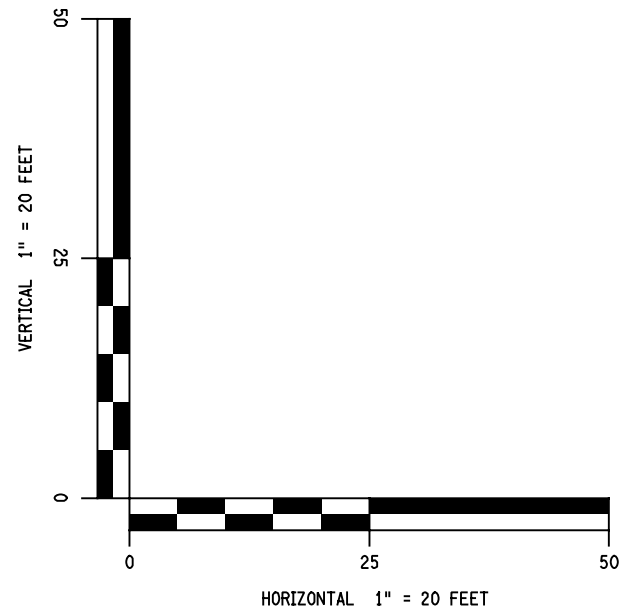
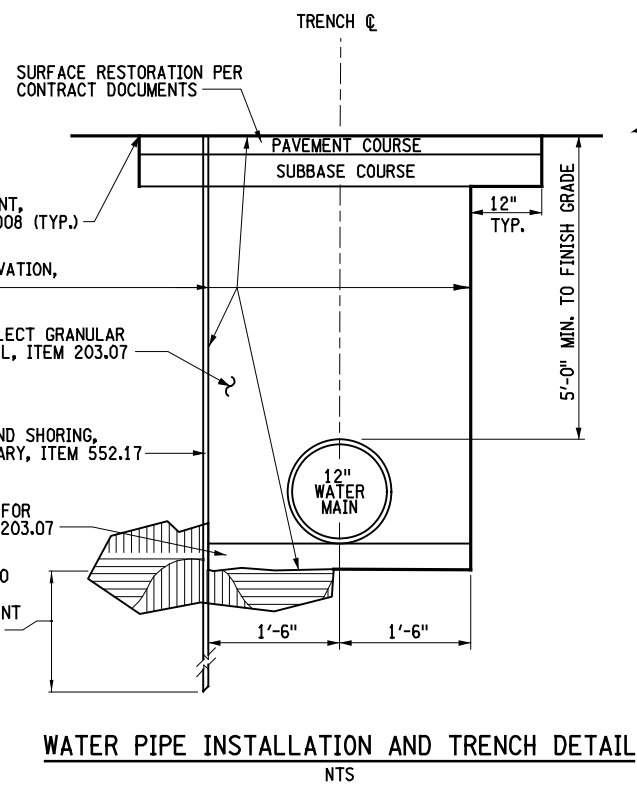


- NOTES:
- SEE CURRENT NYS DOT BD SHEETS FOR CURRENT SPLICE DETAILS, RAILING ANGLE DETAILS, AND ROUND HEAD BOLT DETAILS NOT SHOWN.
  - ALL RAILING IS TO BE FABRICATED AND ERRECTED ACCORDING TO SECTION 568 OF THE STANDARD SPECIFICATIONS.
  - PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/4".
  - BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 FT.-LB.).
  - THE COST OF THE POSTS, SPLICE TUBE AND RAIL FOR THE TURNBACK IS INCLUDED IN THE PRICE BID FOR THE TRANSITION ITEM.
  - PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.
  - ANCHOR RODS SHALL BE GROUTED INTO 11\*2" DIA. THROUGH HOLES FORMED WITH SLEEVES OR MADE WITH A CORE DRILL. THE GROUT SHALL MEET THE REQUIREMENTS OF § 701-05, CONCRETE GROUTING MATERIALS, AND APPEAR ON THE DEPARTMENTS APPROVED LIST.
  - REINFORCEMENT IN PRECAST UNIT IS NOT SHOWN.
  - ALL COVER SHALL BE 2" UNLESS NOTED OTHERWISE.
  - C.P.G.W. = COMPLETE PENETRATION GROOVE WELD.
  - ANY MODIFICATIONS MADE IN THE FIELD THAT DAMAGES GALVANIZATION SHALL BE REPAIRED IN ACCORDANCE WITH SUBSECTION 719-01 OF THE NYS STANDARD SPECIFICATIONS.
  - SEE TYPICAL RAIL TO POST CONNECTION DETAIL ON CURRENT HIGHWAY STANDARD SHEET TITLED "BOX BEAM GUIDE RAIL".

19	21				
					
<h2 style="margin: 0;">Barton &amp; Loguidice</h2> <p style="font-size: small; margin: 0;">UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW, ARTICLE 145 SECTION 7209</p>					
BRUNO ROAD CULVERT REPLACEMENT	TOWN OF CLIFTON PARK	SARATOGA COUNTY			
RAILING DETAILS					
SCALE: AS SHOWN					
DATE ISSUED: 03/2024					
DRAWING					
ST-1-3					

DESIGNED BY: TCB  
 CHECKED BY: DUG/PJC  
 DRAFTED BY: TCB  
 CHECKED BY: DUG/PJC  
 IN CHARGE OF: TCB


PREPARED BY: BARTON & LOGUIDICE, D.P.C.  
 ON: MARCH 18, 2024



- NOTES:**
- ANY AND ALL EXISTING PIPE IF DAMAGED BY THE CONTRACTOR SHALL BE REPLACED IN-KIND WITH NEW PIPE AT THE CONTRACTORS EXPENSE.
  - PIPE SHALL BE 12 INCH DIAMETER DUCTILE IRON PIPE (D.I.P.), PC350 PIPE WITH FIELD LOK GASKETS. ALL FITTINGS SHALL BE MECHANICAL JOINT WITH HIGH PERFORMANCE RETAINER GLANDS (EBAA 1100 MEGA-LUG, OR APPROVED EQUAL WITH PRESSURE RATING OF 350 PSI FOR PIPES BETWEEN 3 INCH AND 16 INCH DIAMETERS). SET SCREW TORQUE FOR MJ DUCTILE IRON RETAINER GLANDS SHALL BE 75 FT-LBS.
  - ALL CORPORATION(S) INSTALLED FOR TESTING AND CHLORINATION SHALL BE REMOVED UPON COMPLETION AND REPLACED WITH BRASS PLUGS. WATER-TIGHTNESS OF BRASS PLUGS SHALL BE OBSERVED VISUALLY UNDER PRESSURE.
  - CLIFTON PARK WATER AUTHORITY INSPECTION STAFF WILL BE ON SITE DURING WORK OPERATIONS. THE CONTRACTOR SHALL NOTIFY THE CLIFTON PARK WATER AUTHORITY AT MINIMUM 72 HOURS IN ADVANCE OF ANY WORK REQUIRING SHUTDOWN OF WATER SERVICES AND SHALL NOTIFY ALL CUSTOMERS AFFECTED AT MINIMUM 48 HOURS IN ADVANCE OF SHUTDOWN. CLIFTON PARK WATER AUTHORITY: PHONE (518) 383-1122.
  - THE MAXIMUM WATER SERVICE SHUTDOWN PERIOD ALLOWED SHALL BE ONE (1) WORK DAY (8 HOURS). THE CONTRACTOR SHALL PROVIDE RESTRAINTS ON BELL AND SPIGOT JOINTS ALONG THE EXISTING MAIN, WITHIN 20'-0" OF THE NEW 45 DEGREE BENDS, PRIOR TO WATER SERVICE SHUTDOWN. THE CONTRACTOR WILL BE REQUIRED TO EXPOSE THE EXISTING PIPE TO PROVIDE ACCESS TO ANY EXISTING JOINTS WITHIN THE 20'-0 RESTRAINT LENGTH.
  - ALL EXISTING VALVES SHALL BE OPERATED UNDER SUPERVISION OF THE CLIFTON PARK WATER AUTHORITY.
  - THE CONTRACTOR SHALL POLYWRAP ALL PIPE AND FITTINGS, ITEM 663.2312.
  - AT THE CONTRACTOR'S OPTION, A CORPORATION AND COPPER WHIP MAY BE INSTALLED ON THE DUCTILE IRON PIPE AT THE HIGH POINT ON THE SOLID SLEEVE TO AID IN EVACUATING AIR DURING TESTING AND PLACING BACK INTO SERVICE. THE CORPORATION AND COPPER WHIP SHALL BE REMOVED AND PLUGGED WITH A BRASS PLUG UPON COMPLETION. WATER-TIGHTNESS OF BRASS PLUG SHALL BE OBSERVED VISUALLY UNDER PRESSURE, COST INCLUDED UNDER ITEM 663.0112.
  - COST FOR MAIN DISINFECTION SHALL BE INCLUDED UNDER VARIOUS CONTRACT ITEMS.
  - NATIONAL GRID SHALL RELOCATE THE EXISTING GAS MAIN. THE EXISTING GAS MAIN ON THE SOUTH SIDE OF BRUNO ROAD WILL BE ABANDONED IN PLACE. THE CONTRACTOR SHALL COORDINATE WITH NATIONAL GRID PRIOR TO EXCAVATION TO CONFIRM REMOVAL OF THE ABANDONED GAS MAIN WITHIN THE TRENCH LIMITS OF THE NEW WATER MAIN.

NO. DATE BY REVISION	
<b>Barton &amp; Loguidice</b> <small>UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209</small>	
BRUNO ROAD CULVERT REPLACEMENT	TOWN OF CLIFTON PARK
SARATOGA COUNTY	
WATERLINE PLAN AND PROFILE	
SCALE: AS SHOWN	
DATE ISSUED: 03/20/24	
DRAWING W-1	

ITEM LIST			
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
201.06	CLEARING AND GRUBBING	LS	1.0
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	450.0
203.03	EMBANKMENT-IN-PLACE	CY	200.0
203.07	SELECT GRANULAR FILL	CY	70.0
203.21	SELECT STRUCTURAL FILL	CY	90.0
206.01	STRUCTURE EXCAVATION	CY	280.0
206.0201	TRENCH AND CULVERT EXCAVATION	CY	70.0
207.20	GEOTEXTILE BEDDING	SY	125.0
207.24	GEOTEXTILE STABILIZATION	SY	540.0
209.1501	TURBIDITY CURTAIN - TEMPORARY	LF	20.0
209.2301	SEDIMENT FILTER LOG - TEMPORARY, 12 INCH	LF	200.0
304.12	SUBBASE COURSE, TYPE 2	CY	205.0
404.128301	12.5 F2 TOP COURSE ASPHALT, 80 SERIES COMPACTION	TON	75.0
404.198901	19 F9 BINDER COURSE ASPHALT, 80 SERIES COMPACTION	TON	120.0
407.0102	DILUTED TACK COAT	GAL	35.0
552.17	SHIELDS AND SHORING	SF	800.0
553.020001	COFFERDAMS (TYPE 2)	EA	2.0
553.030001	TEMPORARY WATERWAY DIVERSION STRUCTURE	EA	1.0
568.54	STEEL BRIDGE RAILING (THREE RAIL)	LF	32.0
568.70	TRANSITION BRIDGE RAILING	LF	113.0
595.50000018	SHEET-APPLIED WATERPROOFING MEMBRANE	SF	250.0
603.63130415	PRECAST CONCRETE BOX CULVERT, 13 FOOT SPAN, 4 FOOT RISE (FILL HEIGHT LESS THAN 2'-0")	LF	46.0
603.6606	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE, CLASS HEII 29 INCH RISE, 45 INCH SPAN	EA	12.0
603.67060008	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE END SECTION, CLASS HEII 29 INCH RISE, 45 INCH SPAN	EA	2.0
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)	LF	39.0
606.120101	BOX BEAM END PIECE	EA	3.0
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY TYPE 11A	EA	1.0
607.3001	OPTIONAL CHAIN LINK FENCE, TYPE I WITH TOP RAIL 4 FEET HIGH	LF	20.0
607.4035	OPTIONAL FENCE GATE (SINGLE LEAF 10 FEET OPENING, 4 FEET HIGH)	EA	1.0
607.41010010	TEMPORARY PLASTIC BARRIER FENCE	LF	215.0
607.96000008	REMOVE AND DISPOSE EXSTING FENCE	LF	25.0
609.0401	CAST-IN-PLACE CONCRETE CRUB - TYPE VF6	LF	40.0
610.1402	TOPSOIL - ROADSIDE	CY	12.0
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY	110.0
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1.0
619.04	TYPE III CONSTRUCTION BARRICADE	EA	8.0
619.1711	TEMPORARY POSITIVE BARRIER - CATEGORY 1 (PINNING PROHIBITED)	LF	40.0
620.03	STONE FILLING (LIGHT)	CY	115.0
620.04	STONE FILLING (MEDIUM)	CY	5.0
623.12	CRUSHED STONE (IN PLACE MEASURE)	CY	35.0
625.01	SURVEY OPERATIONS	LS	1.0
627.50140008	CUTTING PAVEMENT	LF	75.0
646.22	DELINEATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS	EA	6.0
646.31	STEEL POST, 1.1 LB/FT.	EA	4.0
647.83001002	REMOVAL AND DISPOSAL OF DELINEATORS AND/OR REFERENCE MARKERS WITH OR WITHOUT POSTS	EA	2.0
663.0112	DUCTILE IRON CEMENT LINED WATER PIPE, 12 INCH	LF	40.0
663.1812	BOLTED, SLEEVE TYPE COUPLING	EA	2.0
663.2002	IRON WATER MAIN FITTINGS (10-16 INCH DIAMETER)	POUND	860.0
663.2112	WEDGE TYPE MECHANICAL RESTRAINT GLANDS, 12 INCH	EA	16.0
663.2312	POLYETHYLENE ENCASEMENT FOR WATER PIPE	LF	40.0
685.1102	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	320.0
685.1202	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES - 20 MILS	LF	360.0
697.03	FIELD CHANGE PAYMENT	DC	13,700.0
699.040001	MOBILIZATION (4% MAXIMUM)	LS	1.0

NO. DATE BY REVISION		21	21
		<b>Barton &amp; Loguidice</b> <small>UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW ARTICLE 145 SECTION 7209</small>	
		SARATOGA COUNTY	
ITEM LIST			
SCALE: NONE			
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