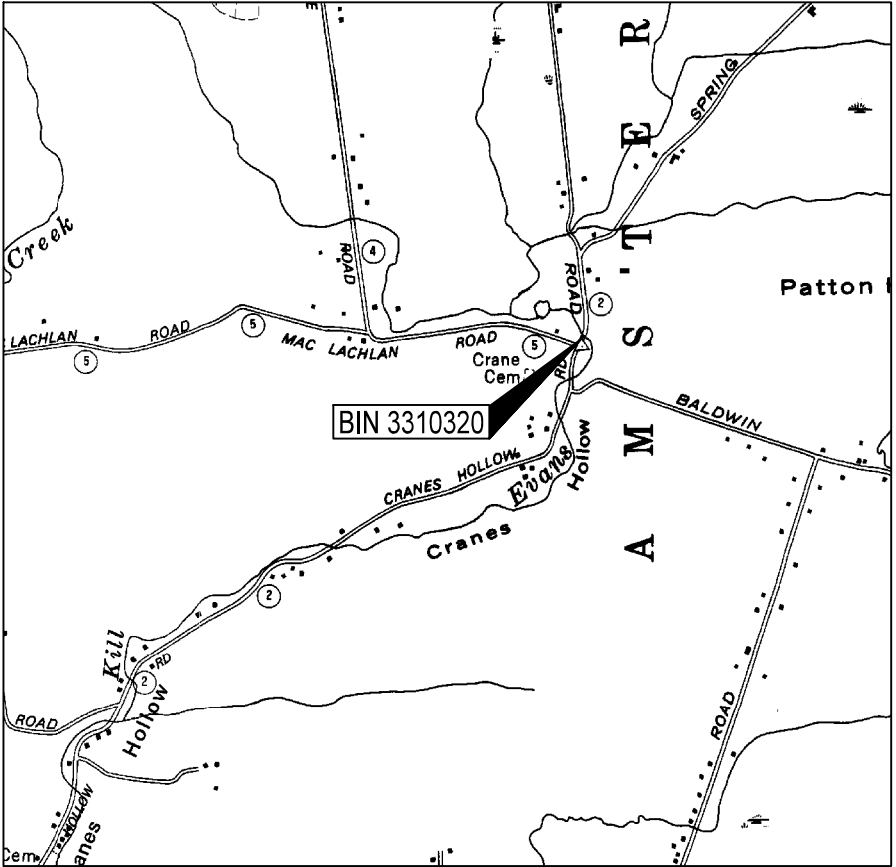


BRIDGE REPLACEMENT PLANS FOR
CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320

TOWN OF AMSTERDAM
COUNTY OF MONTGOMERY, NEW YORK
FEBRUARY 2024
RFP 04-24



PROJECT LOCATION MAP

PREPARED FOR



MONTGOMERY COUNTY
DEPARTMENT OF PUBLIC WORK
ERIC M. MEAD
COMMISSIONER OF PUBLIC WORKS



EDWIN K. TWISS, JR., P.E. NO. 080650

PREPARED BY



40 BRITISH AMERICAN BLVD
LATHAM, NEW YORK 12110

FILE NAME = \$FILEABBREV\$
DATE/TIME = \$DATE\$
USER = \$NTUSER\$

DESIGN SUPERVISOR EKT

JOB MANAGER EKT

DESIGN JRL

CHECK MWO / WNG

DRAFTING KAM / JRL

CHECK EKT

PROJECT MANAGER EKT

ALIGNMENT		TOPOGRAPHY (MISCELLANEOUS)		UTILITIES	
ABBR.	DESCRIPTION	ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
AH	AHEAD	ABUT	ABUTMENT	E	ELECTRIC
AZ	AZIMUTH	AOBE	AS ORDERED BY ENGINEER	EMH	ELECTRIC MANHOLE
BK	BACK	ASPH	ASPHALT	G	GAS
@	BASELINE	BDY	BOUNDARY	GP	GUY POLE
BRG	BEARING	BLDG	BUILDING	GSB	GAS SERVICE BOX (HOUSE LINE)
@	CENTERLINE	BM	BENCH MARK	GV	GAS VALVE (MAIN LINE)
CS	CURVE TO SPIRAL	CC	CENTER TO CENTER	HYD	HYDRANT
e	SUPERELEVATION RATE (CROSS SLOPE)	CONC	CONCRETE	LP	LIGHT POLE
EQ	EQUALITY	CONST	CONSTRUCTION	LPG	LOW PRESSURE GAS
EXT	EXTERNAL	CR	COUNTY ROAD	PP	POWER POLE
HCL	HORIZONTAL CONTROL LINE	D	DEED DISTANCE	SA	SANITARY SEWER
HSD	HEADLIGHT SIGHT DISTANCE	DM	DIRECT MEASUREMENT	SMH	SANITARY MANHOLE
L	LENGTH OF CIRCULAR CURVE	DWY	DRIVEWAY	ST	STORM SEWER
LS	LENGTH OF SPIRAL	EP	EDGE OF PAVEMENT	T	TELEPHONE
LVC	LENGTH OF VERTICAL CURVE	ES	EDGE OF SHOULDER	TCB	TRAFFIC CONTROL BOX
E	CENTER CORRECTION OF VERTICAL CURVE	FEE	FEE ACQUISITION	TELBOX	TELEPHONE BOX
M	MAIN LINE	FEE WO/A	FEE ACQUISITION WITHOUT ACCESS	TEL P	TELEPHONE POLE
PC	POINT OF CURVATURE	FP	FENCE POST	TMH	TELEPHONE MANHOLE
PI	POINT OF INTERSECTION	FD	FOUNDATION	CTV	CABLE TELEVISION
POL	POINT ON LINE	FL	FENCE LINE	W	WATER
PSD	PASSING SIGHT DISTANCE	GAR	GARAGE	WSB	WATER SERVICE BOX (HOUSE LINE)
PT	POINT OF TANGENT	GR	GRAVEL	WV	WATER VALVE (MAIN LINE)
PVC	POINT OF VERTICAL CURVE	HO	HOUSE	SUBSURFACE EXPLORATION	
PVI	POINT OF VERTICAL INTERSECTION	HWY	HIGHWAY		
PVT	POINT OF VERTICAL TANGENT	IP	IRON PIN OR IRON PIPE	ABBR.	DESCRIPTION
R	RADIUS	MB	MAILBOX	REPLACE ABBREVIATION "AB" WITH:	
SC	SPIRAL TO CURVE	MON	MONUMENT	AH	HAND AUGER
SSD	STOPPING SIGHT DISTANCE	N&W	NAIL AND WASHER	CP	CONE PENETROMETER
ST	SPIRAL TO TANGENT	OG	ORIGINAL GROUND	DA	2 1/4 INCHES CASD DRILL HOLE
STA	STATION	O/H	OVERHEAD	DM	DRILLING MUD
T	TANGENT LENGTH	P	PARCEL	DN	4 INCHES CASD DRILL HOLE
TGL	THEORETICAL GRADE LINE	PAV'T	PAVEMENT	FH	HOLLOW FLIGHT AUGER
TS	TANGENT TO SPIRAL	PE	PERMANENT EASEMENT	PA	POWER AUGER
VC	VERTICAL CURVE	PED POLE	PEDESTRIAN POLE	PH	PROBE
TOPOGRAPHY (DRAINAGE)		P	PROPERTY LINE	PT	PERCOLATION TEST HOLE
		POR	PORCH	RP	1 INCH SAMPLER (RETRACTABLE PLUG)
BB	BOTTOM OF BANK (STREAM)	RR	RAILROAD	TO BE DEFINED AT THE TIME OF EXPLORATION	
BC	BOTTOM OF CURB	RTE	ROUTE	SP	SEISMIC POINT
BO	BOTTOM OF OPENING	ROW	RIGHT OF WAY	TP	TEST PIT
CAP	CORRUGATED ALUMINUM PIPE	RW	RETAINING WALL	ABBREVIATION "C" IN CATEGORIES: DA, DM, DN, AND FH WITH:	
CB	CATCH BASIN	SH	STATE HIGHWAY	B	BRIDGE
CIP	CAST IRON PIPE	SHLDR	SHOULDER	C	CUT
@ STRM	CENTERLINE OF STREAM	SPK	SPIKE	D	DAM
CMP	CORRUGATED METAL PIPE	ST	STREET	F	FILL
CP	CONCRETE PIPE	STK	STAKE	K	CULVERT
CSP	CORRUGATED STEEL PIPE	STY	STORY	W	WALL
CULV	CULVERT	SW	SIDEWALK	X	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE
DIA	DIAMETER	TE	TEMPORARY EASEMENT		
DMH	DRAINAGE MANHOLE	TO	TEMPORARY OCCUPANCY		
DS	DRAINAGE STRUCTURE PIPE	U/G	UNDERGROUND		
D'XING	DITCH CROSSING	WW	WING WALL		
EHW	EXTREME HIGH WATER				
EL	ELEVATION				
ELEV	ELEVATION				
ELW	EXTREME LOW WATER				
ES	END SECTION				
HW	HEADWALL				
INV	INVERT				
MH	MANHOLE				
MHW	MEAN HIGH WATER				
OHW	ORDINARY HIGH WATER				
OLW	ORDINARY LOW WATER				
RCP	REINFORCED CONCRETE PIPE				
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE				
TB	TOP OF BANK (STREAM)				
TC	TOP OF CURB				
TG	TOP OF GRATE				
VCP	VITRIFIED CLAY PIPE				

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

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				INDEX AND ABBREVIATIONS	DRAWING NO. INDEX SHEET NO. 2
	COUNTY: MONTGOMERY					

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INDEX		TOTAL NUMBER OF SHEETS 34
SHEET NUMBER	DESCRIPTION	DRAWING NUMBER
1	COVER	COVER
2	INDEX AND ABBREVIATIONS	INDEX
3	LEGEND (1 OF 2)	LEG-1
4	LEGEND (2 OF 2)	LEG-2
5	GENERAL NOTES	GNN-1
6	MISCELLANEOUS TABLES	MST-1
7	EROSION AND SEDIMENT CONTROL DETAILS	ECD-1
8	BASELINE TIES	BLT-1
9	GENERAL PLAN	GEN-1
10	TYPICAL SECTIONS	TYP-1
11	MAINTENANCE AND PROTECTION OF TRAFFIC PLAN	MPP-1
12	PLAN AND ELEVATION	ST-1
13	PROFILE	ST-2
14	EXCAVATION AND EMBANKMENT PLAN (1 OF 2)	ST-3
15	EXCAVATION AND EMBANKMENT PLAN (2 OF 2)	ST-4
16	EXCAVATION AND EMBANKMENT SECTIONS (1 OF 2)	ST-5
17	EXCAVATION AND EMBANKMENT SECTIONS (2 OF 2)	ST-6
18	PILE LAYOUT PLAN	ST-7
19	SOUTH ABUTMENT PLAN AND ELEVATION	ST-8
20	SOUTH ABUTMENT REINFORCEMENT PLAN	ST-9
21	NORTH ABUTMENT PLAN AND ELEVATION	ST-10
22	NORTH ABUTMENT REINFORCEMENT PLAN	ST-11
23	WINGWALL REINFORCEMENT ELEVATIONS, SECTIONS, AND DETAILS	ST-12
24	TRANSVERSE SECTION AND BEAM LAYOUT	ST-13
25	PRESTRESSED VOIDED SLAB UNIT DETAILS	ST-14
26	APPROACH SLAB DETAILS	ST-15
27	ELASTOMERIC BEARING DETAILS	ST-16
28	RAILING LAYOUT PLAN	ST-17
29	BRIDGE RAIL DETAILS (1 OF 4)	RLG-1
30	BRIDGE RAIL DETAILS (2 OF 4)	RLG-2
31	BRIDGE RAIL DETAILS (3 OF 4)	RLG-3
32	BRIDGE RAIL DETAILS (4 OF 4)	RLG-4
33	MISCELLANEOUS DETAILS	MSD-1
34	ESTIMATE OF QUANTITIES	QUAN-1

ALIGNMENT			LANDSCAPE			ROADWAY			TRAFFIC WORK ZONE		
STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION	STYLE	NAME	DESCRIPTION
	AC	CONTROL (CENTERLINE)		LABL	AREA, BRUSH LINE		CZ	RCZ.P CLEAR ZONE		TWZBT.P	BARRIER, TEMPORARY
	AD.P	DETOUR		LAHR	AREA, HEDGE ROW		RG	GUIDE RAIL, MISCELLANEOUS		TWZBTWL.P	BARRIER, TEMPORARY, W/ WARNING LIGHTS
	AT.P	TRANSITION CONTROL		LAPB	AREA, PLANTING BED		RGB	GUIDE RAIL, BOX BEAM		TWZCD.P	CHANNELIZING DEVICE
BRIDGE				LAWA	AREA, WOODED AREA OUTLINE		RGBM	GUIDE RAIL, BOX BEAM, MEDIAN		TWZPMRC.P	PAVEMENT MARKING REMOVAL OR COVERING
	BR	RAIL		LAWL	AREA, WATERS EDGE		RGC	GUIDE RAIL, CABLE	UTILITIES		
	BSHT	SHEET PILING		LCUT.P	CUT LIMIT		RGCB	GUIDE RAIL, CONCRETE BARRIER	STYLE	NAME	DESCRIPTION
CONTROL				LFILL.P	FILL LIMIT		RGP.P	GUIDE POST		UC	CONDUIT, UNDERGROUND
	CB	BASELINE		LFNC	FENCE		RGW	GUIDE RAIL, W BEAM		UCH	CONDUIT, HANGING
	CBPR	BASELINE, PROJECTION		LTRC	TREE ROW, CONIFEROUS		RGWM	GUIDE RAIL, W BEAM, MEDIAN		UCO	CONDUIT, OVERHEAD
DRAINAGE				LTRD	TREE ROW, DECIDUOUS		RPB	PARKING BUMPER		UE	ELECTRIC LINE, UNDERGROUND
	DCP	CULVERT PIPE		LWH	WALL, H PILE		RRC	RAIL ROAD, CATENARY		UEH	ELECTRIC LINE, HANGING
	DCP.P	CULVERT PIPE (DIR)		LWR	WALL, RETAINING		RRER	RAIL ROAD, 3RD RAIL		UEO	ELECTRIC LINE, OVERHEAD
	DDG.P	DITCH, GRASS LINED		LWS	WALL, STONE		RRPLS.P	RAIL, PHOTO, LARGE SCALE		UETO	ELECTRIC TRANSMISSION, OVERHEAD
	DDP.P	DITCH, PAVED INVERT	ROW MAPPING				RRPSS	RAIL, PHOTO, SMALL SCALE		UESS	ELECTRIC, SUBSTATIONS
	DDS.P	DITCH, STONE LINED		MDL	DEED LINE		RRS	RUMBLE STRIP		UFO	FIBER OPTIC, UNDERGROUND
	DFL.P	FLOW LINE		MEE	EASEMENT, EXISTING		RRSL.S.P	RAIL, SURVEY, LARGE SCALE		UFOH	FIBER OPTIC, HANGING
	DSSD	SLOTTED DRAIN		MEP.P	EASEMENT, PERMANENT		RRSS	RAIL, SURVEY, SMALL SCALE		UFOO	FIBER OPTIC, OVERHEAD
	DUD.P	UNDERDRAIN		MEPA.P	EASEMENT, PERMANENT, APPROX.					UG	GAS, UNDERGROUND
ENVIRONMENTAL				MET.P	EASEMENT, TEMPORARY	SIGNS				UGH	GAS, HANGING
	EBLHS	BALE, STRAW		META.P	EASEMENT, TEMPORARY, APPROX.		SBLB	BILLBOARDS		UGO	GAS, OVERHEAD
	ECT	CURTAIN, TURBIDITY		MF.P	FEE ACQUISITION, W/ ACCESS		SM	MULTIPLE POST		UIC	INFORM CABLE, UNDERGROUND
	EDMC	DAM, COFFER		MFA.P	FEE ACQUISITION, APPROXIMATE		SSO	STRUCTURE, OVERHEAD		UICH	INFORM CABLE, HANGING
	EDMEC.P	DAM, EARTHEN CHECK		MFS.P	FEE ACQUISITION, SHAPE		SSOC	STRUCTURE, OVHD. CANTILEVER		UO	OIL LINE, UNDERGROUND
	EDMGSC.P	DAM, GRAVEL BAG/SAND BAG CHECK		MFWOA.P	FEE ACQUISITION, W/O ACCESS	STRIPING				UOH	OIL LINE, HANGING
	EDMPC.P	DAM, PREFABRICATED CHECK		MHA	HISTORICAL, ACQUISITION		STB*	BROKEN LINE		UPBP	POLE, BRACE, PUSH BRACE
	EDMSC.P	DAM, STONE CHECK		MHB	HIGHWAY BOUNDARY		STDB*	DOUBLE BROKEN LINE		USA	SANITARY SEWER, UNDERGROUND
	EFNS	FENCE, SILT		MHBA	HIGHWAY BOUNDARY, APPROX.		STDL*	DOTTED LINE LONG		USAF	SANITARY SEWER, FORCE MAIN, UGND
	EFNSV	FENCE, SILT & VEGETATION		MHBW	Hwy BOUNDARY, FACE OF WALL		STDS*	DOTTED LINE SHORT		USAFH	SANITARY SEWER, FORCE MAIN, HANG
	EFNV	FENCE, VEGETATION		MHBWOA	HIGHWAY BOUNDARY, W/O ACCESS		STFB*	FULL BARRIER LINE		UT	TELEPHONE, UNDERGROUND
	EWAA.P	WETLAND, ADJACENT AREA		MJC	JURISDICTION, CITY		STH*	HATCH LINE		UTH	TELEPHONE, HANGING
	EFW	WETLAND, FEDERAL		MJCY	JURISDICTION, COUNTY		STPB*	PARTIAL BARRIER LINE		UTO	TELEPHONE, OVERHEAD
	EFWS	WETLAND, FEDERAL AND STATE		MJHD	JURISDICTION, HISTORIC DISTRICT		STRCT	ROUNDAABOUT, CAT TRACKS		UTV	CABLE TV, UNDERGROUND
	EWM	WETLAND, MITIGATION AREA		MJLL	JURIS., (GREAT, MILITARY) LOT LINE		STRYL	ROUNDAABOUT, YIELD LINE		UTVH	CABLE TV, HANGING
	EWS	WETLAND, STATE		MJN	JURISDICTION, NATION		STSB	STOP BAR		UTVO	CABLE TV, OVERHEAD
				MJPB	JURISDICTION, PUBLIC LANDS		STSE*	SOLID, EDGE		UUU	UNKNOWN, UNDERGROUND
				MJS	JURISDICTION, STATE		STXL	X WALK, LADDER LINE		UUH	UNKNOWN, HANGING
				MJT	JURISDICTION, TOWN		STXLB	X WALK, LADDER BAR LINE		UUO	UNKNOWN, OVERHEAD
				MJV	JURISDICTION, VILLAGE					UW	WATER LINE, UNDERGROUND
				MPL	PROPERTY LOT LINE					UWH	WATER LINE, HANGING
				MPLA	PROPERTY LOT LINE, APPROXIMATE					UWO	WATER LINE, OVERHEAD
				MSL	SUB LOT LINE						

- THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED).
- FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.).
- FEATURES SHOWN ON THE LEGEND AS EXISTING FEATURES ALSO HAVE CORRESPONDING PROPOSED FEATURES.
- PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in ON B SIZE DRAWINGS).
- 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.
- FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM					
COUNTY: MONTGOMERY				LEGEND (1 OF 2)		DRAWING NO. LEG-1 SHEET NO. 3

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FILE NAME = \$FILEABBREV\$ DATE/TIME = \$DATE\$ USER = \$NTUSER\$
 DESIGN SUPERVISOR EKT
 JOB MANAGER EKT
 DESIGN JRL
 CHECK MWO / WNG
 DRAFTING KAM / JRL
 CHECK EKT
 PROJECT MANAGER EKT

ALIGNMENT			DRAINAGE			ITS			ROW MAPPING			SIGNS			UTILITIES														
CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION												
⊕	ACC	CENTER OF CURVATURE	+	DINV	INVERT	⊕	IANT P	ANTENNAS	⊕	MDL1P	DEED LINE, TYPE 1	⊕	S	SINGLE POST	⊕	UEB	ELECTRIC, BOX												
+	ACOGO	COGO	☐	DS	STRUCTURE, RECTANGULAR	⊕	IASCTS	ACCOU. SPEED/COUNT SNSR.S	⊕	MDL2P	DEED LINE, TYPE 2	⊕	S.P	SINGLE POST, PROPOSED	⊕	UEM	ELECTRIC, METER												
⊙	ACS	CURVE TO SPIRAL	+	DSI	STRUCTURE, INVERT	⊕	ICABPAD	CABINET & PAD	⊕	MDL3P	DEED LINE, TYPE 3	⊕	SB.P	BACK TO BACK, PROPOSED	⊕	UEMH	ELECTRIC, MANHOLE												
△	ADP1.P	DETOUR, POINT OF INTERSECT.	⊕	DSM	STRUCTURE, MANHOLE	⊕	ICCTV	CCTV SITE	⊕	MDL4P	DEED LINE, TYPE 4	⊕	SDEL	DELINEATORS	⊕	UEPT	ELECTRIC, POLE, TRANS.												
○	ADPL.P	DETOUR, POINT ON LINE	⊕	DSMTXX.P	STRUCTURE, MANHOLE, TYPE "XX" "XX" = 48, 60, 72, 96	⊕	ICDPD	CDPD TRANSCEIVER	⊕	MDL5P	DEED LINE, TYPE 5	⊕	SPM	PARKING METER	⊕	UGM	GAS, METER												
⊙	AEQN	EQUATION	⊕	DSR	STRUCTURE, ROUND	⊕	ICELLT	CELL PHONE TOWER	⊕	MEEP	EASEMENT, EXISTING	⊕	SRM	REFERENCE MARKERS	⊕	UGMH	GAS, MANHOLE												
⊕	AEQNAHD	EQUATION AHEAD	⊕	DST"X"CB.P	STRUCTURE, RECT., WITH CURB TYPE "X" "X" = F, G, N, O, P, R	⊕	ICJB	CONDUIT JACK OR BORING	⊕	MEPAP.P	EASEMENT, PERM., APPROX.	⊕	SRSC3	SHLD, CTY, 123 DIG.	⊕	UGLM	GAS, LINE MARKER												
⊕	AEQNBK	EQUATION BACK	⊕	DST"X" P	STRUCTURE, RECT., TYPE "X" "X" = I, K, L, M, O, P, U	⊕	ICNTLCAB	CONTROLLER CABINET	⊕	MEPP.P	EASEMENT, PERM., BACK LINE	⊕	SRSC4	SHLD, CTY, 4 DIG.	⊕	UGP	GAS/FUEL PUMP												
○	AEVT	EVENT STATION	ENVIRONMENTAL			⊕	ICPB	COMMUNICATION PULL BOX	⊕	MEPSP.P	EASEMENT, PERM., SHAPE	⊕	SRSC2	SHLD, CTY TOUR, 1-2 DIG.	⊕	UGV	GAS, VALVE												
⊕	APC	POINT OF CURVATURE				⊕	ICTD	CONDUIT TURNING DOWN	⊕	MFAP.P	FEE ACQUISITION, APPROX.	⊕	SRSC4	SHLD, CTY TOUR, 3-4 DIG.	⊕	UGVT	GAS, VENT												
○	APCC	POINT OF COMPOUND CURVATURE				⊕	ICTU	CONDUIT TURNING UP	⊕	MFP.P	FEE ACQUISITION, BACK LINE	⊕	SRSI	SHLD, INTERSTATE	⊕	ULP	LIGHTING, POLE												
△	API	POINT OF INTERSECTION				⊕	ICVTRT	COMM. VEH. ROAD TRANSCEIVER	⊕	MFSP.P	FEE ACQUISITION, SHAPE	⊕	SRS2	SHLD, NATIONAL, 2 DIG.	⊕	ULPM	LIGHTING, POLE, MEDIAN												
△	APOB	POINT OF BEGINNING				+	IDEFAULT	DEFAULT	⊕	MHBAP	HIGHWAY BNDRY., APPROX.	⊕	SRSN3	SHLD, NATIONAL, 3 DIG.	⊕	ULPP	LIGHTING, POLE, PED.												
○	APOC	POINT OF CURVATURE				⊕	IEZR	E-ZPASS READER	⊕	MHBCP	HISTORICAL, BLDG. CORNERS	⊕	SRSS2	SHLD, STATE, 2 DIG.	⊕	UMFC	MISC. FILLER CAP												
△	APOE	POINT OF END				⊕	IEZTR	TRANSMITTAL READER	⊕	MHBP	HIGHWAY BNDRY, PT.	⊕	SRSS3	SHLD, STATE, 3 DIG.	⊕	UOLM	OIL, LINE MARKER												
○	APOL	POINT ON LINE				⊕	IFXCAB	FIBER OPTIC X-CONNECT CABINET	⊕	MJCP	PT., JURIS. CITY	⊕	SRSS4	SHLD, STATE, 4 DIG.	⊕	UP	POLE, WITH UTILITY												
○	APOS	POINT ON SPIRAL				⊕	IFUSSPL	FUSION SPLICE	⊕	MPBC	PT., BUILDING CORNER	TRAFFIC CONTROL																	
○	APOT	POINT ON TANGENT				⊕	IHARADV	HAR ADVISORY SIGN	⊕	MPCC	PT., CROSS CUT	⊕	TCBJ	BOX, JUNCTION	⊕	UPD	POLE, DEAD (NO UTILITY)												
△	APOVC	POINT ON VERTICAL CURVE				⊕	IHARST	HAR SITE	⊕	MPDH	PT., DRILL HOLE	⊕	TCBP	BOX, PULL BOX	⊕	UPL	POLE, WITH LIGHT												
△	APOVT	POINT ON VERTICAL TANGENT				⊕	ILC	LOAD CENTER	⊕	MPF	PT., FENCE LOCATION	⊕	TCBS	BOX, SPLICE	⊕	USMH	SANITARY SEWER MANHOLE												
Y	APORC	POINT ON REVERSE CURVE				⊕	IMECSPL	MECHANICAL SPLICE	⊕	MPIP	PT., IRON PIPE	⊕	TCMC	MICROCOMPUTER CABINET	⊕	UTB	TELEPHONE, BOOTH												
⊕	APT	POINT OF TANGENCY				⊕	IMSCS	PORT. SPEED & COUNT SENSOR	⊕	MPIR	PT., IRON ROD	⊕	TCPP	PED POLE	⊕	UTLM	TELEPHONE, LINE MARKER												
⊕	APVC	POINT OF VERTICAL CURVATURE				⊕	IMSCTS	MICRO SPEED & COUNT SENSOR	⊕	MPM	PT., MONUMENT	⊕	TCSH	SIGNAL HEADS	⊕	UTMH	TELEPHONE, MANHOLE												
△	APVCC	POINT OF VERT. CMPND CURVE				⊕	IMT	MICROWAVE TRANSCEIVER	⊕	MPMM	PT., MONUMENT, MISC.	⊕	TCSP	SIGNAL POLE	⊕	UTVLM	CABLE TV, LINE MARKER												
⊕	APVI	POINT OF VERT. INTERSECTION				⊕	IOHVMS	PERM. OVERHEAD VMS	⊕	MPN	PT., NAIL	TRAFFIC WORK ZONE																	
△	APVRC	POINT OF VERT. REVERSE CURVE				⊕	IPASCS	PORT. ACCOU. SPD & CNT. SENSOR	⊕	MPRS	PT., RAILROAD SPIKE	⊕	TWZAP.P	ARROW PANEL	⊕	UUB	UNKNOWN, BOX												
⊕	APVT	POINT OF VERTICAL TANGENCY					IPEDS	PEDESTRIAN SIGNAL HEAD	⊕	MPS	PT., SPIKE	⊕	TWZAPC.P	ARROW PANEL, CAUTION MODE	⊕	UUJB	UNKNOWN, JUNCTION BOX												
⊕	ASC	SPIRAL TO CURVE					IPSS	PAVEMENT SURFACE SENSOR	⊕	MPST	PT., STAKE	⊕	TWZAPT.P	ARROW PANEL, TRAILER OR SUPPORT	⊕	UUMH	UNKNOWN, MANHOLE												
△	ASPI	SPIRAL POINT OF INTERSECTION					IPVMS	PERM. VMS	⊕	MPTW	PT., TREE W/ WIRE	⊕	TWZBDC.P	BARRICADE (TYPE III)	⊕	UUPB	UNKNOWN, PULL BOX												
○	ASTS	SPIRAL TO SPIRAL					IRM	RAMP METER	⊕	MPWL	PT., WALL LOCATION	⊕	TWZCMT.P	CHANGEABLE MESSAGE SIGN (PVMS)	⊕	UUVL	UNKNOWN, VALVE												
⊕	AST	SPIRAL TO TANGENT					IRWIS	RDWY WEATHER INFO. SENSOR	ROW ACQUISITION			⊕	TWZFLG.P	FLAGGER	⊕	UUVT	UNKNOWN, VENT												
⊕	ATS	TANGENT TO SPIRAL					ISP	SOLAR PANEL	⊕	MFS.P.T	FEE ACQUISITION	⊕	TWZFT.P	FLAG TREE	⊕	UJW	UNKNOWN, WELL												
△	AVEVT	VERTICAL EVENT POINT					ISST	SPREAD SPECT. TRANSCEIVER	⊕	MEPS.P.T	EASEMENT, PERMANENT	⊕	TWZIA.P	IMPACT ATTENUATOR / CRASH CUSHION (TEMPORARY)	⊕	UWFH	WATER, FIRE HYDRANT												
○	AVHIGH	VERTICAL HIGH POINT					ITDB	TELEPHONE DEMARCATION BLK	⊕	METS.P.T	EASEMENT, TEMPORARY	⊕	TWZLUM.P	LUMINAIRE (TEMPORARY)	⊕	UWM	WATER, METER												
○	AVLOW	VERTICAL LOW POINT					ITP	SUBSURFACE TEMP. PROBE	⊕	METS.P.T	EASEMENT, TEMPORARY	⊕	TWZSDT.P	SYMBOL, DIRECTION OF TRAFFIC	⊕	UWMH	WATER, MANHOLE												
BRIDGE							IVTRT	VEHICLE TO RDWY TRANSCEIVER	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	TWZSDTD.P	SYMBOL, DIRECTION OF TEMPORARY TRAFFIC DETOUR	⊕	UWV	WATER, VALVE												
☐	BSC	BRIDGE, SCUPPER					IWIMD	WEIGHT IN MOTION DETECTOR	⊕	MFS.P.T	FEE ACQUISITION W/O ACCESS	⊕	TWZSGN.P	SIGN (TEMPORARY)	⊕	UWW	WATER, WELL												
CONTROL							IWVR	WIRELESS VIDEO REPEATER				⊕	TWZSIG.P	SIGNAL, TRAFFIC OR PEDESTRIAN (TEMPORARY)	4. PROPOSED FEATURE SYMBOLOGY IS IDENTICAL TO EXISTING (FEATURE SYMBOLOGY EXCLUDING LINE WEIGHT. LINE WEIGHT FOR PROPOSED FEATURES IS THICKER (0.015 in (ON B SIZE DRAWINGS)).														
△	CBP	BASELINE, POINT					IWVRC	WIRELESS VIDEO RECEIVER				⊕	TWZWL.P	WARNING LIGHT	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.														
○	CBPOL	BASELINE, POINT ON LINE					IWVTT	WIRELESS VIDEO TRANSMITTER				⊕	TWZWV.P	WORK VEHICLE	6. FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED (ONLY AND DO NOT HAVE CORRESPONDING EXISTING (FEATURES).														
⊕	CBSP	BASELINE, SPUR POINT							ROADWAY			⊕	TWZWVA.P	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR															
⊕	CBTP	BASELINE, TIE POINT							⊕	RES P	ELEVATION, SPOT																		
☐	CPBM	BENCHMARK							⊕	RGA	GUIDE RAIL, ANCHOR																		
⊕	CPH	POINT, HORIZ. PHOTOGRAMMETRY							○	RGP	GUIDE POST, SINGLE																		
⊕	CPSM	POINT, SURVEY MARKER, PERM.							AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:																				
⊕	CPSV	POINT, VERT., PHOTOGRAMMETRY							CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320			PIN N/A			BRIDGES 3310320			CULVERTS			ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED			CONTRACT NUMBER RFP 04-24					
									TOWN OF AMSTERDAM												LEGEND (2 OF 2)			DRAWING NO. LEG-2 SHEET NO. 4					
									COUNTY: MONTGOMERY																				

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GENERAL NOTES:

- DESIGN SPECIFICATIONS: NYS DOT LRF D BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF DECEMBER 2023 (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AND DECK SLABS AT 28 DAYS: $f'c = 3,000$ psi.)
- CONSTRUCTION SPECIFICATIONS: NYS DOT STANDARD SPECIFICATIONS - CONSTRUCTION AND MATERIALS WITH ALL PROVISIONS IN EFFECT AS OF JANUARY 1, 2024.
- THIS BRIDGE SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT VERSION OF THE AASHTO MAINTENANCE MANUAL FOR ROADWAYS AND BRIDGES.
- DESIGN LIVE LOAD: AASHTO HL - 93.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF TESTING ALL MATERIALS. TESTING OF MATERIALS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LABORATORY APPROVED BY THE ENGINEER. TESTING SHALL CONFORM TO THE APPLICABLE ASTM, AND NYS DOT STANDARDS. THE TESTING LABORATORY SHALL SUBMIT A WRITTEN REPORT DESCRIBING THE TESTS PERFORMED, THE RESULTS OF SUCH TESTS, AND A STATEMENT OF COMPLIANCE OR NON-COMPLIANCE OF THE SPECIFICATION TO THE CONTRACTOR AND THE ENGINEER. MATERIAL TESTING SHALL BE IN ACCORDANCE WITH THE TECHNICAL PROVISION SECTION OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS.

FOUNDATION NOTES:

- WHEN PILES ARE TO BE PLACED THROUGH THE EMBANKMENT (6 INCHES MAXIMUM TOPSIZE), THE EMBANKMENT SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.
- EMBANKMENT IN PLACE, ITEM 203.03 AND SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY, ON BOTH SIDES OF THE VERTICAL PAYMENT LINE.
- THE COST OF WATER USED FOR COMPACTION OF THE SELECT STRUCTURAL FILL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.21 - SELECT STRUCTURE FILL.
- THE COST OF WATER USED FOR COMPACTION OF EMBANKMENT IN PLACE MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.03 - EMBANKMENT IN PLACE.

SUBSTRUCTURE NOTES:

- TOP OF BACKWALLS SHALL BE STEEL TROWEL FINISHED. TWO SHEETS OF SHEET GASKET (TREATED BOTH SIDES), 5728-06, SHALL BE PLACED ON THE TOP OF THE BACKWALLS OF FIXED AND EXPANSION ABUTMENTS. THE CONTRACTOR SHALL INCLUDE COSTS FOR THIS WORK IN THE UNIT PRICE BID FOR THE APPROACH SLAB ITEM.
- THE COST OF ALL JOINT MATERIAL AND WATERSTOPS AT CONCRETE CONSTRUCTION JOINTS, CONTRACTION AND EXPANSION JOINTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS CONCRETE ITEMS IN THE CONTRACT.
- THE FOLLOWING CONCRETE ELEMENTS SHALL BE SEALED ACCORDING TO ITEM 559.02 - PROTECTIVE SEALING OF NEW STRUCTURAL CONCRETE: EXPOSED FACES OF WINGWALLS, TOP OF WINGWALLS, FRONT FACE OF ABUTMENTS, TOP OF ABUTMENTS, AND THE EXPOSED TOP OF BACKWALL.

COFFERDAM NOTES:

- SHOULD THE CONTRACTOR ELECT TO LAY BACK A PORTION OF THE EXISTING EARTH ADJACENT TO AN EXCAVATION REQUIRING A COFFERDAM, ANY REQUIRED EXTENSIONS TO THE COFFERDAM NECESSARY TO KEEP WATER FROM ENTERING THE EXCAVATION SHALL BE FURNISHED AND PLACED AT NO COST TO THE OWNER.
- WHEN A COFFERDAM IS USED, THE COST OF DEWATERING THE ENTIRE EXCAVATION, REGARDLESS OF THE SOURCE OF WATER, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE COFFERDAM ITEM.
- SHOULD FIELD CONDITIONS REQUIRE A CHANGE IN THE TYPE OF COFFERDAM SYSTEM CALLED FOR IN THE PLANS, THE ENGINEER SHALL SUBMIT THE CHANGES TO THE OWNER FOR REVIEW AND APPROVAL.

PRESTRESSED CONCRETE BEAM NOTES:

- TO REDUCE THE TENDENCY FOR BEAM ENDS TO CRACK, THE CONTRACTOR MAY PROPOSE DEBONDING OF PRETENSIONING STRANDS FOR A MAXIMUM OF 6 INCHES FROM ENDS OF BEAMS. TOTAL NUMBER OF DEBONDED STANDS (DESIGN DEBONDING AND CRACK CONTROL DEBONDING COMBINED) SHALL NOT EXCEED 50% OF TOTAL NUMBER OF STRANDS.
- SHOP DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH THE NYS DOT PRESTRESSED CONCRETE CONSTRUCTION MANUAL (PCCM) TO THE ENGINEER FOR APPROVAL FOR THE FOLLOWING PRESTRESSED CONCRETE ITEMS:

ITEM 563.030001MC - PRESTRESSED CONCRETE HOLLOW SLAB UNITS

SUPERSTRUCTURE SLAB NOTES:

- SHOP DRAWING SUBMITTALS ARE REQUIRED FOR THE FOLLOWING BRIDGE RAILING AND/OR TRANSITION BRIDGE RAILING ITEMS:
 ITEM 568.51 - STEEL BRIDGE RAILING (FOUR RAIL)
 ITEM 568.70 - TRANSITION BRIDGE RAILING
- TOP SURFACES OF NEW BRIDGE DECKS AND APPROACH SLABS SHALL BE SEALED IN ACCORDANCE WITH ITEM 559.01 - PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS.
- BARLISTS ARE NOT PROVIDED FOR SUPERSTRUCTURE SLABS, APPROACH SLABS, AND/OR SIDEWALKS. THE PROVISIONS OF 557-3.17 - NO BARLIST PROVIDED, OF THE NYS DOT STANDARD SPECIFICATIONS - CONSTRUCTION AND MATERIALS SHALL APPLY. A REVIEW TIME OF TWO DAYS PER PLACEMENT DRAWING, WITH A MINIMUM OF 15 DAYS FOR EACH SUBMISSION WILL BE ALLOWED UPON RECEIPT OF THE SUBMISSION.
- CARE SHALL BE TAKEN TO PREVENT CONTAMINATION OF THE WATERWAY BY THE SEALER. IF THE MANUFACTURER'S INSTRUCTIONS REQUIRE MIXING OF THE SEALER PRIOR TO APPLICATION, MIXING SHALL OCCUR IN A MANNER THAT WILL PREVENT CONTAMINATION OF THE WATERWAY. THE CONTRACTOR SHALL HAVE AVAILABLE FOR IMMEDIATE USE MATERIALS TO SOAK UP OR CONTAIN ANY ACCIDENTAL SPILLS. PRIOR TO THE APPLICATION OF THE SEALER, ANY OPENINGS IN THE SURFACE OF THE BRIDGE DECK OR IN THE WALKING SURFACE, SUCH AS SCUPPERS OR OPEN DRAINS SHALL BE COVERED TO PREVENT CONTAMINATION OF THE WATERWAY. CARE SHALL BE TAKEN TO PREVENT SPRAYED SEALER FROM ENTERING THE WATERWAY BY ROLLING THE SEALER OR BY PHYSICALLY ISOLATING THE AREA TO BE SPRAYED FROM THE WATERWAY BY THE USE OF TARPS OR OTHER BARRIER-TYPE MEANS TO THE SATISFACTION OF THE EIC.

REMOVAL NOTES:

- EXISTING SUBSTRUCTURES SHALL BE REMOVED WITHIN THE PAY LIMITS SHOWN IN THE PLANS UNDER ITEM 202.19 - REMOVAL OF SUBSTRUCTURES.
- EXISTING SUPERSTRUCTURE SHALL BE REMOVED UNDER ITEM 202.120001 REMOVING EXISTING SUPERSTRUCTURES.
- SUPERSTRUCTURE REMOVAL SHALL MEET THE PROVISIONS OF 202-3.01 - GENERAL AND SAFETY REQUIREMENTS, OF THE NYS DOT STANDARD SPECIFICATIONS - CONSTRUCTION AND MATERIALS. A REMOVAL PLAN, SEALED BY A REGISTERED NEW YORK STATE PROFESSIONAL ENGINEER, SHALL BE SUBMITTED TO THE ENGINEER THIRTY (30) DAYS PRIOR TO BEGINNING THE DEMOLITION.
- RECORD PLANS FOR THIS STRUCTURE ARE NOT AVAILABLE.

RECONSTRUCTION NOTES:

- DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.
- THE CONTRACTOR 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 OWNER, 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 OWNER, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.
- WHEN ITEMS IN THE CONTRACT REQUIRE MATERIALS TO BE REMOVED AND DISPOSED OF, THE COST OF SUPPLYING A DISPOSAL AREA AND TRANSPORTATION TO THAT AREA SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THOSE ITEMS.
- DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT DROP WASTE CONCRETE, DEBRIS, AND OTHER MATERIAL TO THE AREA BELOW THE BRIDGE 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 ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE STOPPED UNTIL ADEQUATE PROTECTION IS PROVIDED. IN STREAM WORK RELATED TO THE REMOVAL OF THE EXISTING SUPERSTRUCTURE AND SUBSTRUCTURE IS PROHIBITED UNLESS THE CONTRACTOR RECEIVES PERMISSION FROM THE NEW YORK DEPARTMENT OF ENVIRONMENTAL CONSERVATION.
- ALL MATERIAL FALLING ON THE AREA BELOW AND ADJACENT TO THE BRIDGE SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AT NO COST TO THE OWNER.
- THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE UNIT PRICE BID USING THE APPROPRIATE ITEMS IN THE CONTRACT.
- IF THE STRUCTURE HAS A BRIDGE IDENTIFICATION NUMBER (B.I.N.) PLATE ATTACHED, THE CONTRACTOR SHALL PROTECT IT DURING CONSTRUCTION OR REMOVE AND REMOUNT IT AFTER CONSTRUCTION IS COMPLETED.

STREAM PROTECTION NOTE:

- 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 PURPOSES OR OTHER SIMILAR OPERATIONS 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 TO SUSTAIN FISH LIFE DOWNSTREAM.

STREAM NOTES:

- ORDINARY HIGH WATER IS ESTIMATED TO BE 94.50. THIS IS DEFINED AS THE WATER SURFACE ELEVATION FOR THE MEAN ANNUAL FLOOD, WHICH IS THE FLOOD THAT HAS A RECURRENCE INTERVAL OF 2.33 YEARS.
- ORDINARY WATER IS ESTIMATED TO BE 94.25. THIS IS DEFINED AS THE HIGHEST SURFACE WATER ELEVATION LIKELY TO BE ENCOUNTERED DURING ONE CONSTRUCTION SEASON (OTHER THAN MAJOR FLOODS). IT IS ALWAYS LESS THAN THE ORDINARY HIGH WATER ELEVATION AND IT IS USUALLY AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.
- LOW WATER IS ESTIMATED TO BE 94.00. THIS WATER ELEVATION IS THE NORMAL LOW WATER ELEVATION PREVALENT DURING ONE CONSTRUCTION SEASON FOR MORE THAN 25% OF THE TIME. IT IS AN OBSERVED ELEVATION RATHER THAN A COMPUTED ONE.

AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024

ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				GENERAL NOTES	DRAWING NO. GNN-1
	COUNTY: MONTGOMERY					SHEET NO. 5

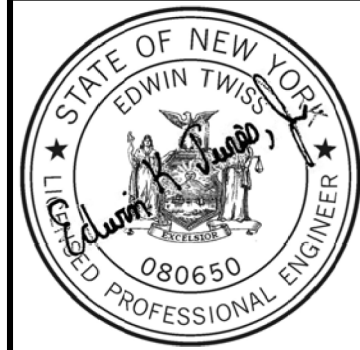
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HORIZONTAL CONTROL TABLE				
H.C.L. POINT	H.C.L. STATION	COORDINATES		DESCRIPTION
		NORTH	EAST	
CRANES HOLLOW ROAD				
CURVE 1				
P.O.B.	5+00	4839.59	4920.51	BEGIN ALIGNMENT
P.C.	5+25.63	4864.93	4924.35	P.C. CURVE 1
P.I.	5+81.19	4920.55	4932.79	P.I. CURVE 1
				(R= 290.0 FT.)
P.T.	6+36.76	4968.98	4961.41	P.T. CURVE 1
CURVE 2				
P.C.	6+73.55	5000.65	4980.13	P.C. CURVE 2
P.I.	6+78.24	5004.7	4982.53	P.I. CURVE 2
				(R= 50.0 FT.)
P.T.	6+82.93	5000.93	4984.12	P.T. CURVE 2
CURVE 3				
P.C.	7+44.73	5067.26	5005.09	P.C. CURVE 3
P.I.	7+64.02	5085.56	5011.69	P.I. CURVE 3
				(R= 120.0 FT.)
P.T.	7+83.31	5105.01	5012.17	P.T. CURVE 3
CURVE 4				
P.C.	8+14.53	5136.22	5012.95	P.C. CURVE 4
P.I.	8+31.83	5153.56	5013.37	P.I. CURVE 4
				(R= 220.0 FT.)
P.T.	8+91.68	5170.74	5011.08	END ALIGNMENT

PROJECT MANAGER EKT
 CHECK EKT
 DRAFTING KAM / JRL
 CHECK MWO / WNG
 DESIGN JRL
 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT

AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024
 ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM					MISCELLANEOUS TABLES
	COUNTY: MONTGOMERY					

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FILE NAME = \$FILEABBREV\$
 DATE/TIME = \$DATE\$
 USER = \$USER\$

PROJECT MANAGER EKT
CHECK EKT
DRAFTING KAM / JRL
CHECK MWO / WNG
DESIGN JRL
JOB MANAGER EKT
DESIGN SUPERVISOR EKT

APPLICATION NOTES

- A. THE PRIMARY PURPOSE OF A SILT FENCE IS TO INTERCEPT SEDIMENT LADEN RUNOFF BY IMPOUNDING WATER BEHIND THE FENCE SO THAT SEDIMENT FALLS OUT OF SUSPENSION.
- B. IDENTIFY ONSITE AND OFFSITE RESOURCES THAT NEED TO BE PROTECTED USING THE SILT FENCE (E.G. WETLANDS, PONDS, WATERWAYS OR ENVIRONMENTALLY SENSITIVE AREAS). SILT FENCES ARE TYPICALLY USED WITH EROSION OR SEDIMENT CONTROL MEASURES, SUCH AS MULCH AND/OR ROLLED EROSION CONTROL FABRIC.
- C. SILT FENCE SHALL NOT BE USED IN OR ACROSS A FLOWING CHANNEL, OR AREAS OF CONCENTRATED FLOW. DO NOT USE SILT FENCE AS A PERIMETER CONTROL, TO DEFINE PROPERTY LINES, OR TO DELINEATE A RESOURCE.

GENERAL NOTES

- 1. SILT FENCE SHALL BE INSTALLED ON A LINE OF EQUAL ELEVATION (CONTOUR). IT MAY BE INSTALLED AT INTERMEDIATE POINTS UP SLOPES AS WELL AS AT THE BOTTOM.
- 2. FOR LOCATIONS THAT WARRANT PLACEMENT OF SILT FENCE AT THE BASE OF SLOPES, SILT FENCE SHALL BE PLACED A MINIMUM OF 10 FEET FROM THE TOE OF THE SLOPE, TO PROVIDE ADEQUATE AREA FOR SEDIMENT STORAGE AND FACILITATE MAINTENANCE OF THE SEDIMENT CONTAINMENT AREA.
- 3. THE ENDS OF A ROW OF SILT FENCE SHALL BE ANGLED UP SLOPE TO PREVENT CHANNELIZED FLOW FROM BEING CONVEYED PAST THE ENDS OF THE FENCE. A SECTION OF SILT FENCE SHOULD NOT EXCEED 100 FEET IN LENGTH.
- 4. WOOD POSTS FOR SILT FENCE SHALL HAVE A CROSS-SECTION AREA OF 3.5 SQUARE INCHES OR STEEL POSTS SHALL BE "T" OR "U" SHAPE AND 1.33 POUNDS/FEET (MINIMUM) FOR STEEL. SPACING FOR THE PROVIDED SILT FENCE POSTS SHALL BE AS DESIGNATED ON THE DEPARTMENT APPROVED LIST FOR SILT FENCE. THE LENGTH OF SILT FENCE POSTS SHALL BE 48 INCHES.
- 5. THE BOTTOM EDGE OF SILT FENCE SHALL BE BURIED A MINIMUM OF 6" BELOW GROUND. THE FENCE SHALL BE INSTALLED WITH THE POSTS ON THE DOWNSLOPE SIDE OF THE FABRIC.
- 6. WHERE ENDS OF GEOTEXTILE FABRIC COME TOGETHER, THEY SHALL BE OVERLAPPED AND FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS, OR THE END POSTS OF TWO SECTIONS SHALL BE WRAPPED AS SHOWN IN THE DETAIL FOR SILT FENCE END WRAPPING.
- 7. SEDIMENT SHALL BE REMOVED WHEN ACCUMULATION REACHES ONE-HALF OF THE ABOVE GROUND HEIGHT OR WHEN BULGES DEVELOP IN THE FABRIC. SEDIMENT SHALL BE DISPOSED OF AS UNSUITABLE MATERIAL.
- 8. THE FOLLOWING ARE MAXIMUM SLOPE LENGTHS (DISTANCE BETWEEN ROWS) FOR SILT FENCE INSTALLATION:

SILT FENCE MAXIMUM SLOPE LENGTH (FEET)			
SLOPE	STEEPNESS	STANDARD**	REINFORCED***
*5-10%	20:1 TO 10:1	125	250
10-20%	10:1 TO 5:1	100	150
20-33%	5:1 TO 3:1	60	80
33-50%	3:1 TO 2:1	40	70
> 50%	> 2:1	20	30

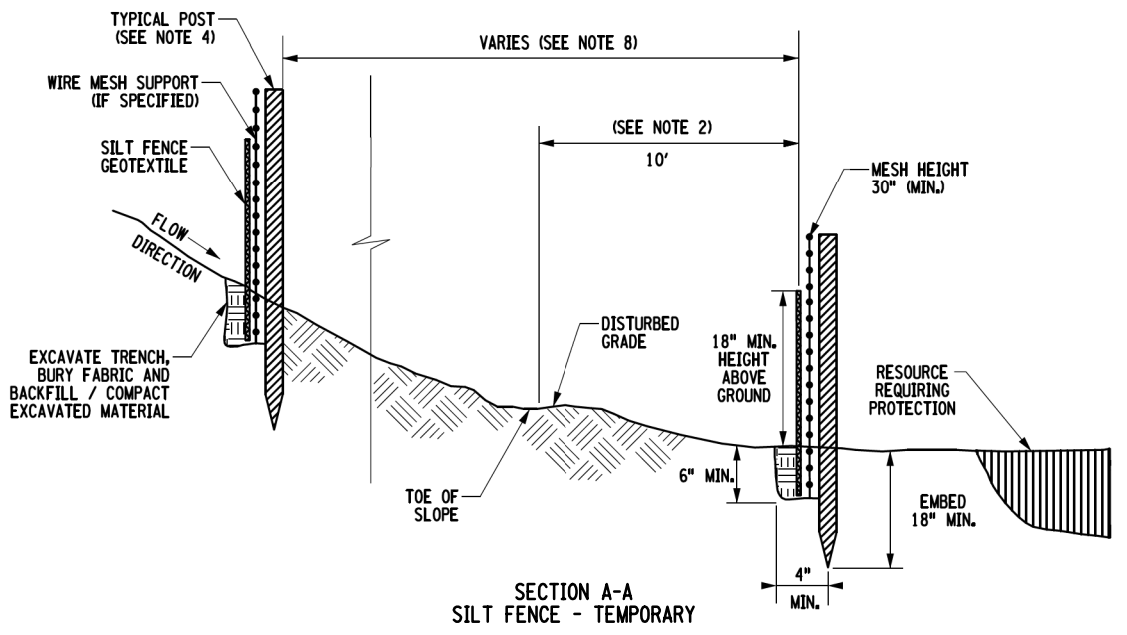
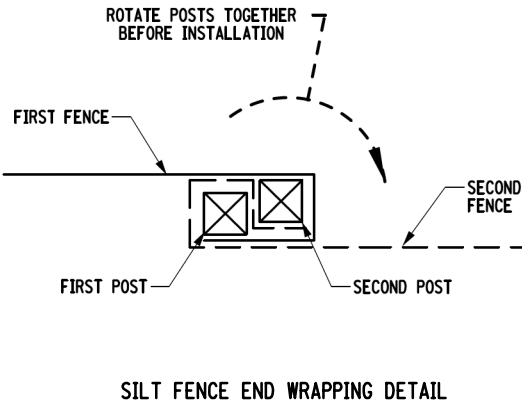
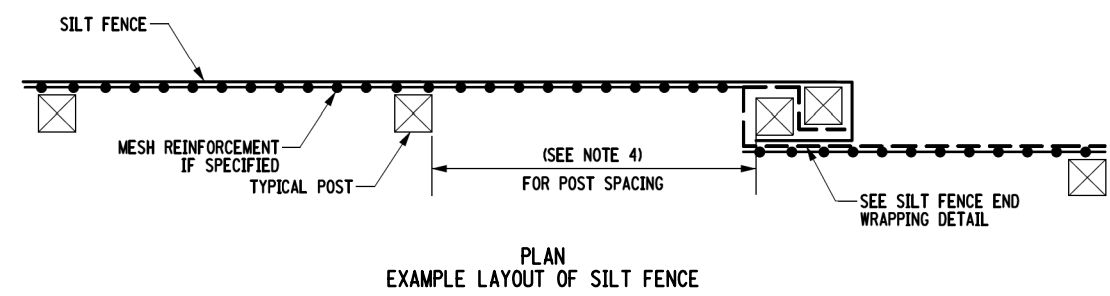
* FOR SLOPES LESS THAN 5% SILT FENCE IS NOT REQUIRED UNLESS IN SENSITIVE AREAS OR HIGHLY ERODIBLE SOILS.

** STANDARD SILT FENCE IS FABRIC ROLLS STAPLED TO WOODEN POSTS DRIVEN 18 INCHES INTO THE GROUND.

*** REINFORCED SILT FENCE IS FABRIC PLACED AGAINST WELDED WIRE MESH WITH ANCHORED STEEL POSTS DRIVEN 18 INCHES INTO THE GROUND.

- 9. INSTALLATION OF SILT FENCE, INCLUDING EXCAVATION, BACKFILL, AND COMPACTION OF SOIL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM.

NOTE:
SEE GENERAL NOTES SHEET DWG. NO. GNN-1 FOR ADDITIONAL ENVIRONMENTAL PROTECTION NOTES.



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
ON: FEBRUARY 21, 2024

ALTERED BY:
ON:



AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320
PIN N/A
TOWN OF AMSTERDAM
COUNTY: MONTGOMERY

BRIDGES 3310320
CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
EROSION AND SEDIMENT CONTROL DETAILS

CONTRACT NUMBER RFP 04-24
DRAWING NO. ECD-1
SHEET NO. 7

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.



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DATE/TIME = \$DATE\$
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FILE NAME = \$FILEABBREV\$
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DESIGN SUPERVISOR EKT

JOB MANAGER EKT

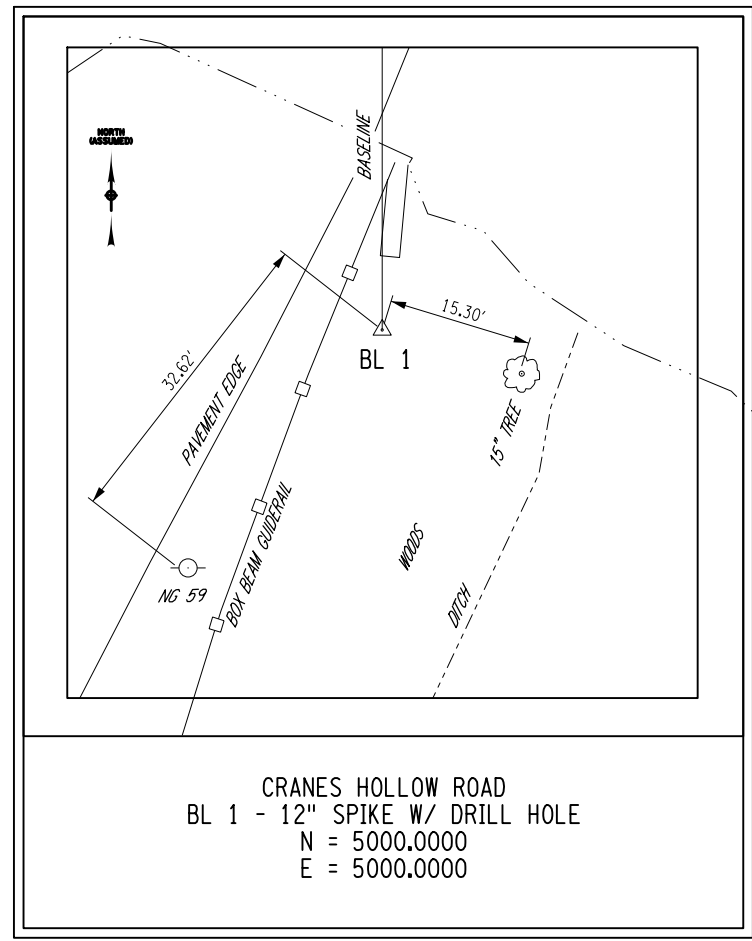
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CHECK MWO / WNG

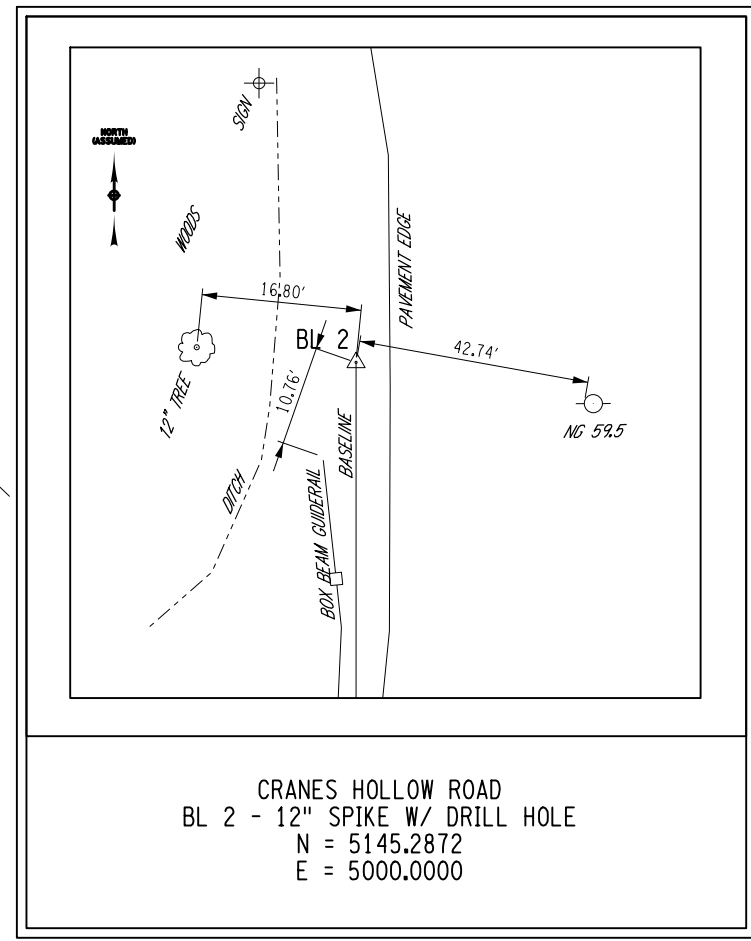
DRAFTING KAM / JRL

CHECK EKT

PROJECT MANAGER EKT



CRANES HOLLOW ROAD
 BL 1 - 12" SPIKE W/ DRILL HOLE
 N = 5000.0000
 E = 5000.0000



CRANES HOLLOW ROAD
 BL 2 - 12" SPIKE W/ DRILL HOLE
 N = 5145.2872
 E = 5000.0000

POINT	NORTHING	EASTING
BL - 1	5000.0000	5000.0000
BL - 2	5145.2875	5000.0000
CL BEARING/CL ROADWAY SOUTH ABUTMENT	5016.7300	4986.8600
CL BEARING/CL ROADWAY NORTH ABUTMENT	5059.0600	5002.1300
CL STA. 6+00	4936.2400	4944.7600
CL STA. 8+00	5121.7000	5012.5900

AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024

ALTERED BY:
 ON:



AS-BUILT REVISIONS
 DESCRIPTION OF ALTERATIONS:

CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320
 TOWN OF AMSTERDAM
 COUNTY: MONTGOMERY

PIN N/A
 BRIDGES 3310320
 CULVERTS

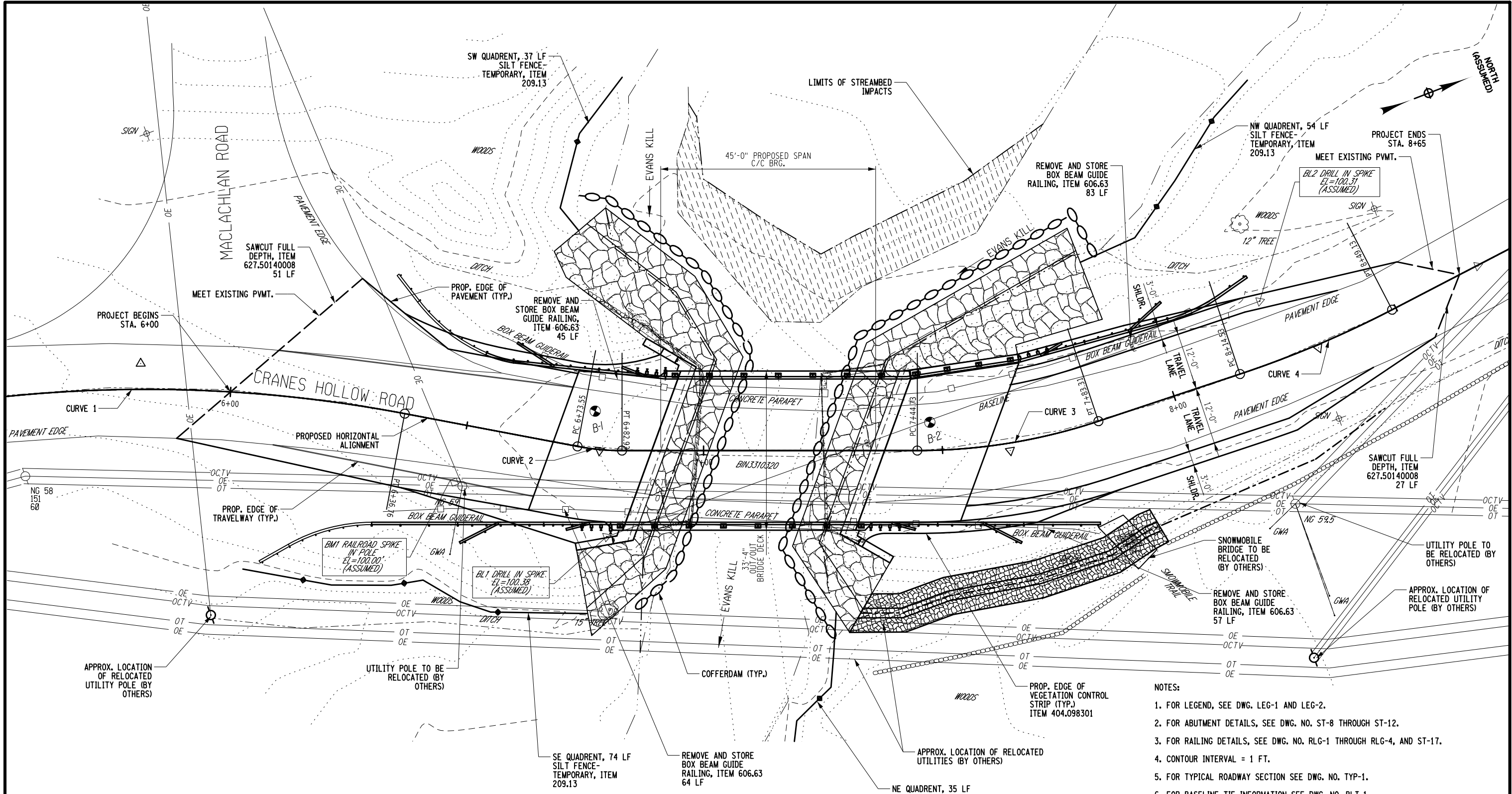
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
 BASELINE TIES

CONTRACT NUMBER RFP 04-24
 DRAWING NO. BLT-1
 SHEET NO. 8

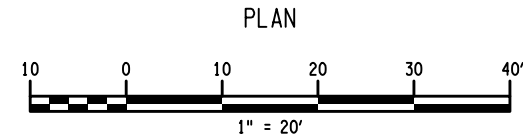
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, 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.



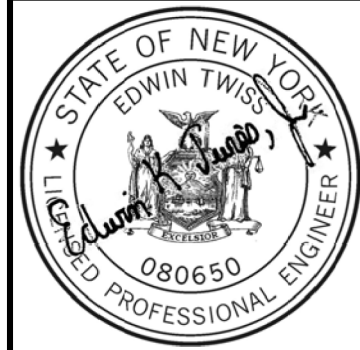
PROJECT MANAGER EKT
 CHECK EKT
 DRAFTING KAM / JRL
 CHECK MWO / WNG
 DESIGN JRL
 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT



- NOTES:
1. FOR LEGEND, SEE DWG. LEG-1 AND LEG-2.
 2. FOR ABUTMENT DETAILS, SEE DWG. NO. ST-8 THROUGH ST-12.
 3. FOR RAILING DETAILS, SEE DWG. NO. RLG-1 THROUGH RLG-4, AND ST-17.
 4. CONTOUR INTERVAL = 1 FT.
 5. FOR TYPICAL ROADWAY SECTION SEE DWG. NO. TYP-1.
 6. FOR BASELINE TIE INFORMATION SEE DWG. NO. BLT-1.
 7. COORDINATE WITH OWNER FOR ANY SIGN REMOVED DURING EXCAVATION OR GUIDERAIL INSTALLATION.
 8. SEE DWG. NO. MST-1 FOR HORIZONTAL CONTROL TABLE.
 9. CONTRACTOR SHALL COORDINATE WITH THE OWNER ON ANY GUIDE RAIL OR BARRIER REMOVED FOR STORAGE AND/OR DISPOSAL.



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024



ALTERED BY:
 ON:

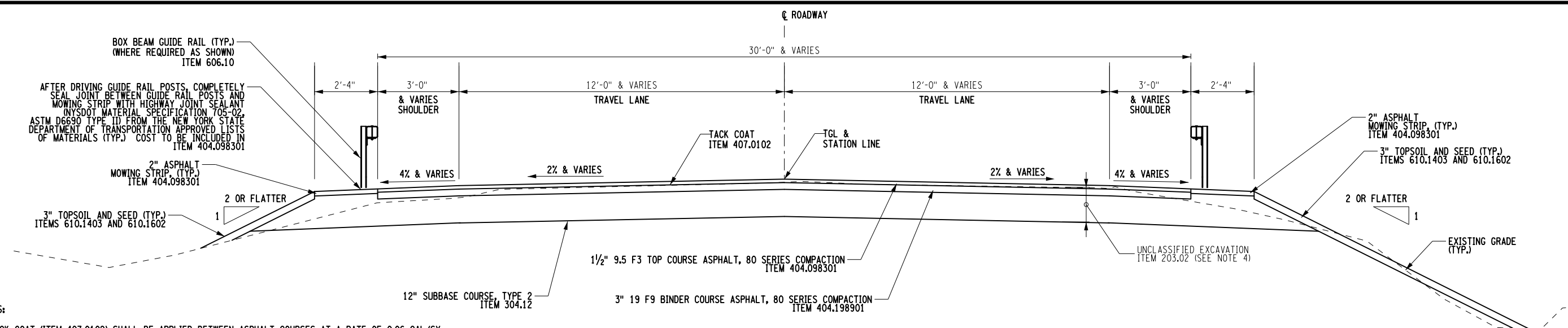
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				GENERAL PLAN	DRAWING NO. GEN-1
	COUNTY: MONTGOMERY					SHEET NO. 9

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.

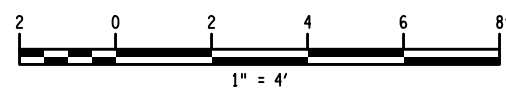
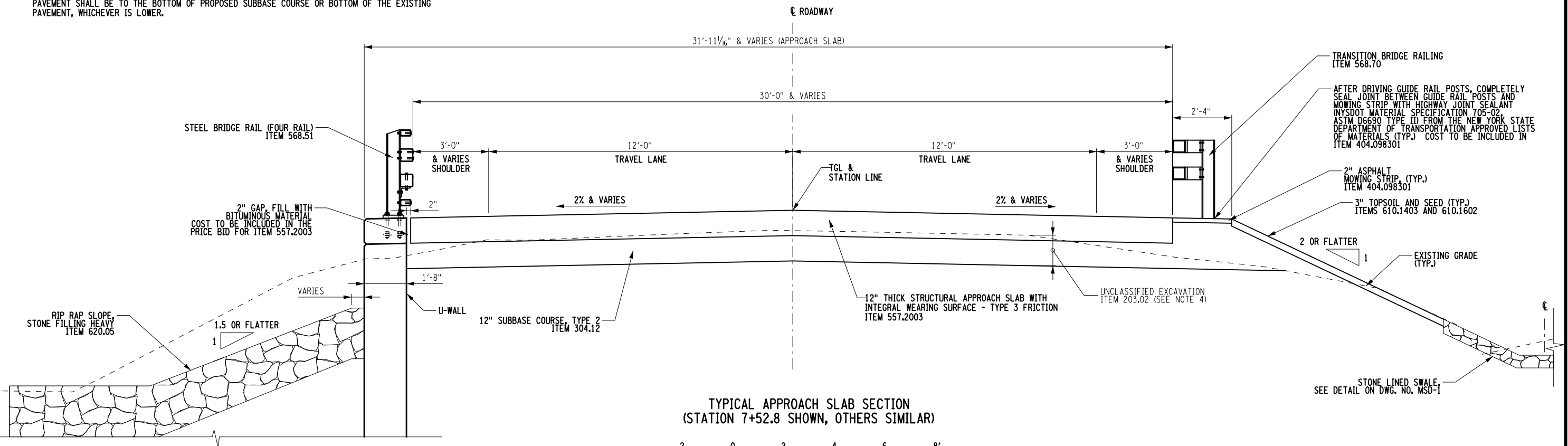
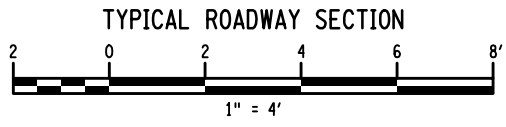


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PROJECT MANAGER EKT
 CHECK EKT
 DRAFTING KAM / JRL
 CHECK MW / WNG
 DESIGN JRL
 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT



- NOTES:
1. TACK COAT (ITEM 407.0102) SHALL BE APPLIED BETWEEN ASPHALT COURSES AT A RATE OF 0.06 GAL/SY.
 2. TACK COAT (ITEM 407.0102) SHALL BE APPLIED TO ALL SAWCUT AND EXISTING SURFACES PRIOR TO PAVING AT A RATE OF 0.11 GAL/SY.
 3. ANY DAMAGE TO EXISTING PAVEMENT OUTSIDE THE PROPOSED WORK LIMITS SHALL BE REPAIRED (A.O.B.E.) BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE COUNTY.
 4. THE BOTTOM PAY LIMIT FOR ITEM 203.02, UNCLASSIFIED EXCAVATION AND DISPOSAL, UNDER THE PAVEMENT SHALL BE TO THE BOTTOM OF PROPOSED SUBBASE COURSE OR BOTTOM OF THE EXISTING PAVEMENT, WHICHEVER IS LOWER.



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024

ALTERED BY:
 ON:



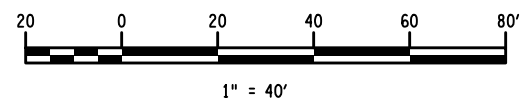
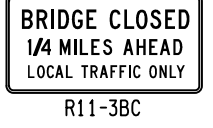
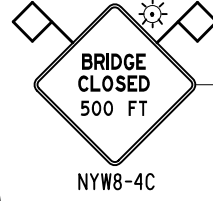
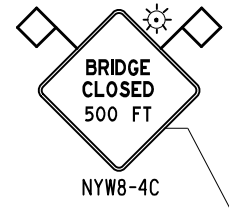
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				TYPICAL SECTIONS	DRAWING NO. TYP-1
	COUNTY: MONTGOMERY					

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.



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 USER = \$NTUSER\$

PROJECT MANAGER EKT
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 DRAFTING KAM / JRL
 CHECK MWO / WNG
 DESIGN JRL
 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024
 ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				MAINTENANCE AND PROTECTION OF TRAFFIC PLAN	DRAWING NO. MPP-1
	COUNTY: MONTGOMERY					SHEET NO. 11

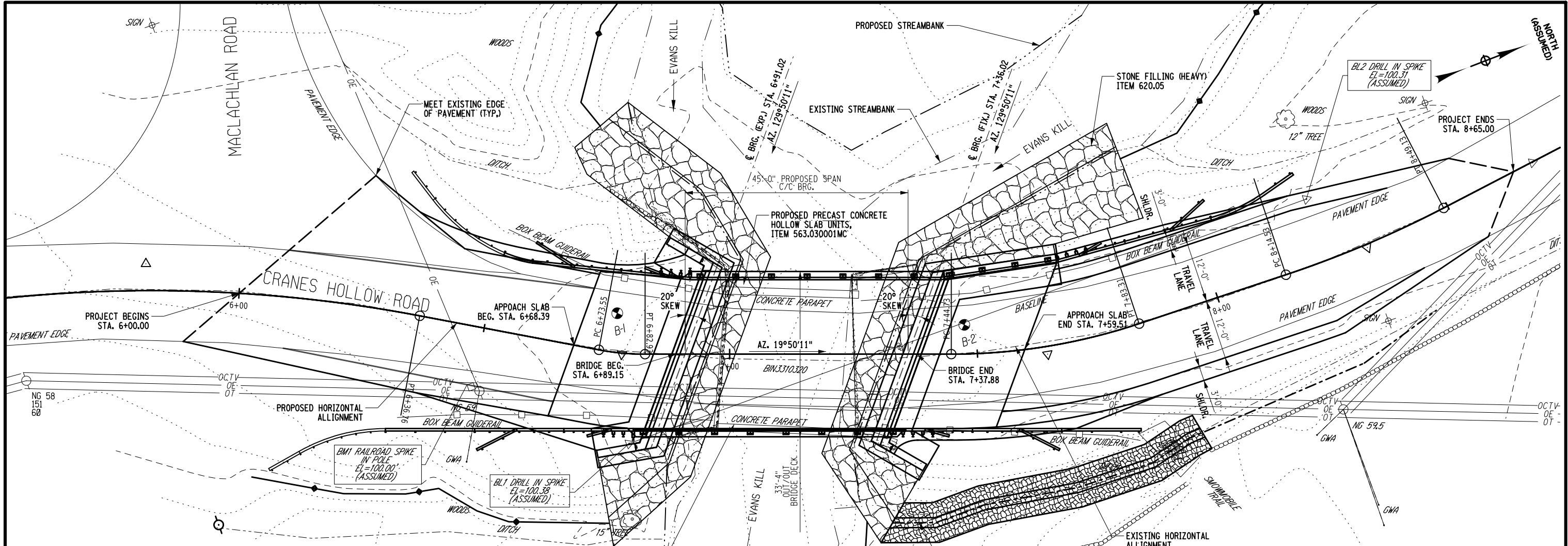
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LEGEND	
	CONSTRUCTION SIGN COST TO BE INCLUDED IN ITEM 619.01
	WORK ZONE
	TEMP CONCRETE BARRIER AND WARNING LIGHT ITEM 619.1711 & ITEM 619.1719
	TYPE III BARRICADE WITH LIGHTING ITEM 619.04
	FLASHING BEACON - ONE PER SIGN UNLESS OTHERWISE NOTED. COST TO BE INCLUDED IN ITEM 619.01
	FLAG ATTACHED TO SIGN (2 PER SIGN) COST TO BE INCLUDED IN ITEM 619.01

- NOTES:
- ADDITIONAL SIGNING REQUIRED TO DETOUR TRAFFIC AROUND THE CLOSED BRIDGE SITE WILL BE INSTALLED BY OTHERS. CONTRACTOR SHALL COORDINATE PLACEMENT OF THE SIGNS DETAILED ON THIS SHEET WITH THE ENGINEER.
 - ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION.
 - SEE MUTCD FOR SIGN DETAILS.
 - ACTUAL PLACEMENT OF BARRICADES AND SIGNS WILL BE A.O.B.E.



PROJECT MANAGER EKT
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 DESIGN JRL
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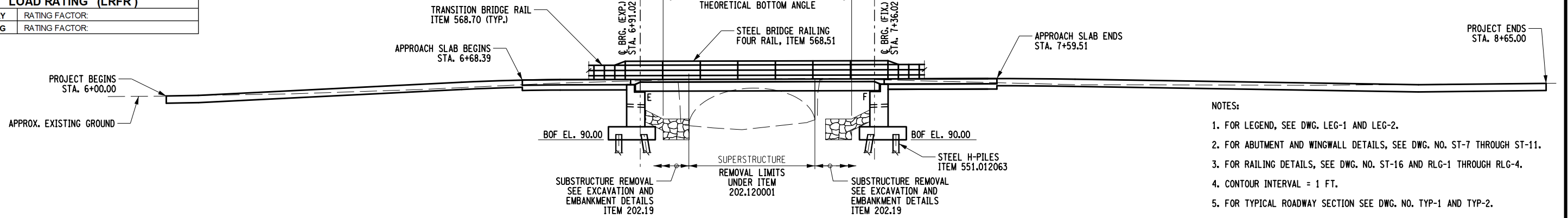


PLAN

45'-0" PROPOSED SPAN
 C/C BRG.

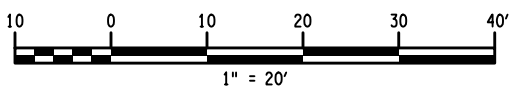
LOAD RATING (LOAD FACTOR)		
INVENTORY	HS	TONS
OPERATING	HS	TONS

LOAD RATING (LRFR)	
INVENTORY	RATING FACTOR:
OPERATING	RATING FACTOR:



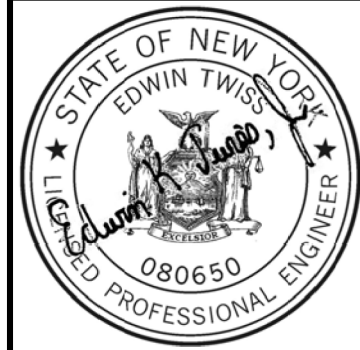
ELEVATION

- NOTES:
1. FOR LEGEND, SEE DWG. LEG-1 AND LEG-2.
 2. FOR ABUTMENT AND WINGWALL DETAILS, SEE DWG. NO. ST-7 THROUGH ST-11.
 3. FOR RAILING DETAILS, SEE DWG. NO. ST-16 AND RLG-1 THROUGH RLG-4.
 4. CONTOUR INTERVAL = 1 FT.
 5. FOR TYPICAL ROADWAY SECTION SEE DWG. NO. TYP-1 AND TYP-2.
 6. FOR BASELINE TIE INFORMATION SEE DWG. NO. BLT-1.
 7. COORDINATE WITH OWNER FOR ANY SIGNS REMOVED DURING EXCAVATION OR GUIDERAIL INSTALLATION.
 8. SEE DWG. NO. MST-1 FOR HORIZONTAL CONTROL TABLE.



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024

ALTERED BY:
 ON:



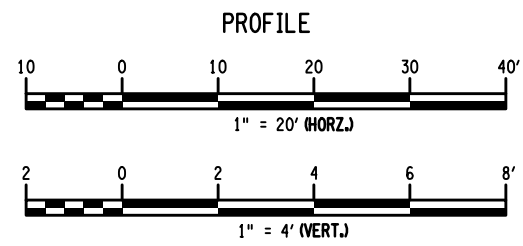
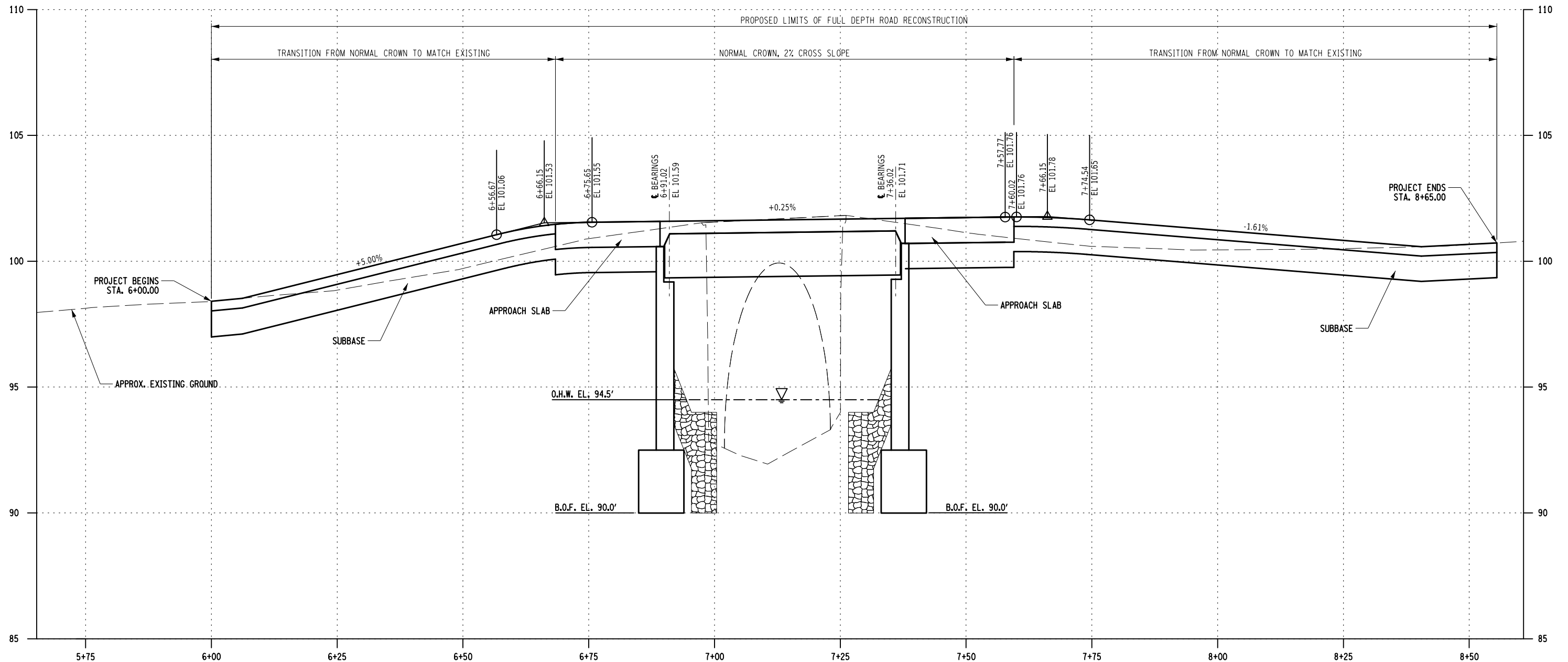
AS-BUILT REVISIONS	CANON HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
DESCRIPTION OF ALTERATIONS:					PLAN AND ELEVATION	DRAWING NO. ST-1 SHEET NO. 12
	TOWN OF AMSTERDAM					
	COUNTY: MONTGOMERY					

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.



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 CHECK MWO / WNG
 DESIGN JRL
 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024

ALTERED BY:
 ON:



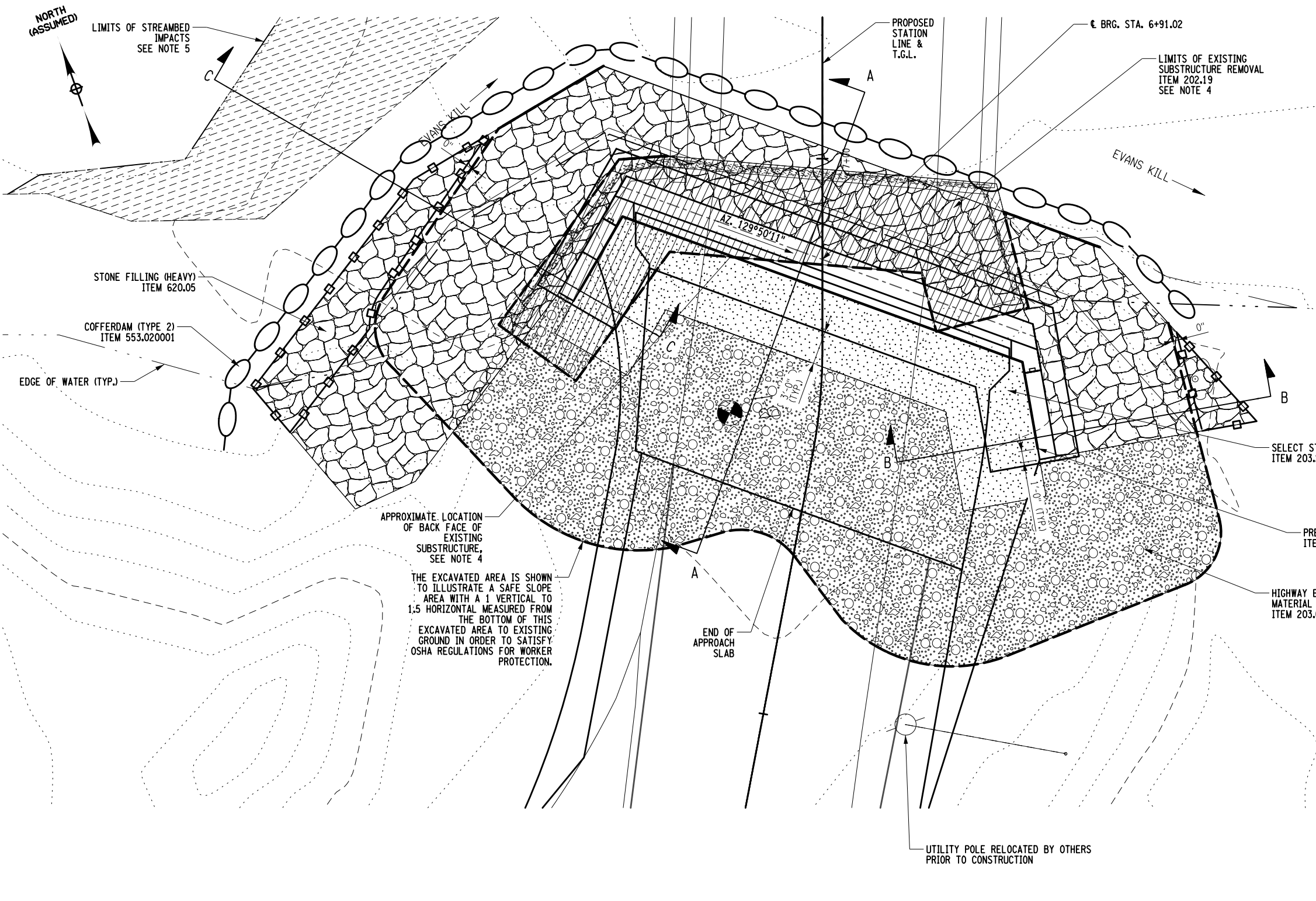
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM					DRAWING NO. ST-2
					PROFILE	SHEET NO. 13

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FILE NAME = \$FILEABBREV\$
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 USER = \$NTUSER\$

PROJECT MANAGER EKT
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 CHECK MWO / WNG
 DESIGN JRL
 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT

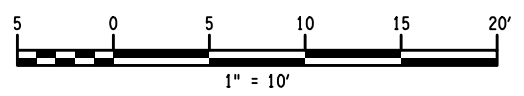


LEGEND

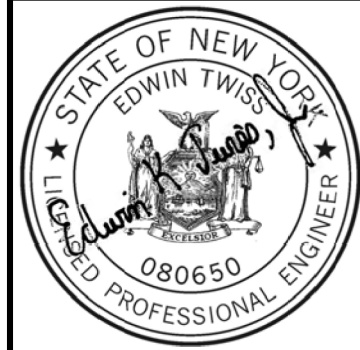
	SELECT STRUCTURE FILL, ITEM 203.21
	HIGHWAY EMBANKMENT MATERIAL, ITEM 203.03
	REMOVAL OF SUBSTRUCTURES, ITEM 202.19
	PREFABRICATED COMPOSITE STRUCTURAL DRAIN, ITEM 207.26
	AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION, ITEM 206.01
	AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAY LINES FOR TRENCH AND CULVERT EXCAVATION, ITEM 206.0201
	STONE FILLING - HEAVY, ITEM 620.05
	STONE FILLING - MEDIUM, ITEM 620.04
	NATIVE STREAMBED MATERIAL, ITEM 620.29010009

- NOTES:**
- MATERIALS REMOVED AND PAID FOR UNDER THE REMOVAL OF SUBSTRUCTURES ITEM SHALL NOT ALSO BE PAID FOR UNDER THE STRUCTURE EXCAVATION ITEM.
 - FOR EROSION AND SEDIMENT CONTROL DETAILS SEE DWG. NO. ESD-1.
 - FOR SECTIONS A-A, B-B, AND C-C SEE DWG. NO. ST-5.
 - THE CONTRACTORS ATTENTION IS DIRECTED TO THE FACT THAT THERE IS NO "AS-BUILT" DRAWINGS FOR THE ABUTMENT AND WINGWALLS. SUBSTRUCTURES SHOWN ARE TO BE CONSIDERED APPROXIMATE.
 - NATIVE STREAMBED MATERIALS REMOVED SHALL BE RELOCATED ON-SITE A.O.B.E..

SOUTH ABUTMENT PLAN



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
ON: FEBRUARY 21, 2024
ALTERED BY:
ON:



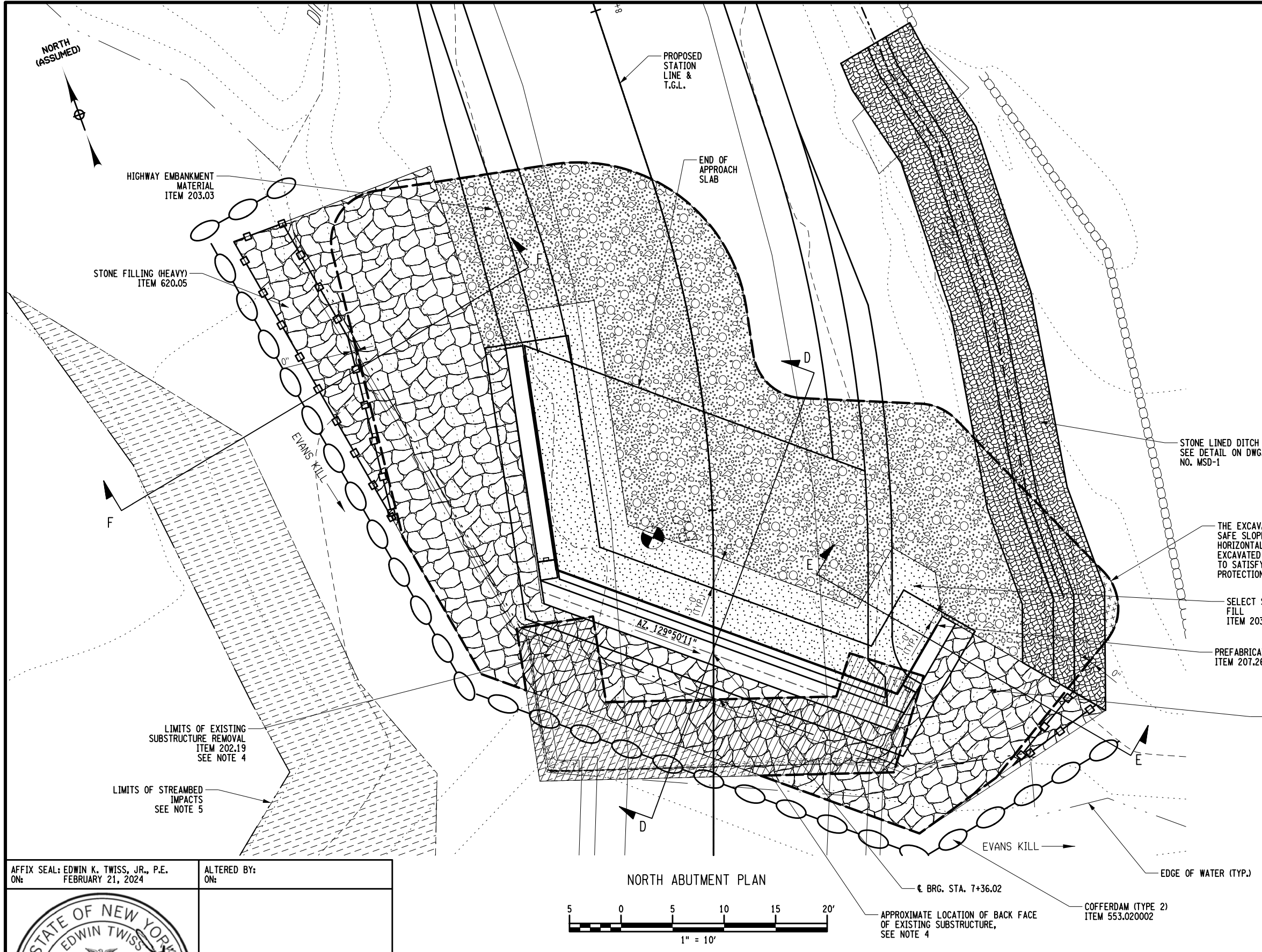
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				EXCAVATION AND EMBANKMENT PLAN (1 OF 2)	DRAWING NO. ST-3
	COUNTY: MONTGOMERY					SHEET NO. 14

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.



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 USER = \$NTUSER\$

PROJECT MANAGER EKT
 CHECK EKT
 DRAFTING KAM / JRL
 CHECK MWO / WNG
 DESIGN JRL
 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT



LEGEND	
	SELECT STRUCTURE FILL, ITEM 203.21
	HIGHWAY EMBANKMENT MATERIAL, ITEM 203.03
	REMOVAL OF SUBSTRUCTURES, ITEM 202.19
	PREFABRICATED COMPOSITE STRUCTURAL DRAIN, ITEM 207.26
	AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES EXCAVATION, ITEM 206.01
	AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAY LINES FOR CULVERT EXCAVATION, ITEM 206.0201
	STONE FILLING - HEAVY, ITEM 620.05
	STONE FILLING - MEDIUM, ITEM 620.04
	NATIVE STREAMBED MATERIAL, ITEM 620.29010009

STONE LINED DITCH
SEE DETAIL ON DWG.
NO. MSD-1

THE EXCAVATED AREA IS SHOWN TO ILLUSTRATE A SAFE SLOPE WITH A 1 VERTICAL TO 1.5 HORIZONTAL MEASURED FROM THE BOTTOM OF THIS EXCAVATED AREA TO EXISTING GROUND IN ORDER TO SATISFY OSAH REGULATIONS FOR WORKER PROTECTION

SELECT STRUCTURE FILL
ITEM 203.21

PREFABRICATED COMPOSITE STRUCTURAL DRAIN,
ITEM 207.26 (TYP.)

PREFABRICATED COMPOSITE STRUCTURAL DRAIN,
ITEM 207.26 (TYP.)

NOTES:

1. MATERIALS REMOVED AND PAID FOR UNDER THE REMOVAL OF SUBSTRUCTURES ITEM SHALL NOT ALSO BE PAID FOR UNDER THE STRUCTURE EXCAVATION ITEM.
2. FOR EROSION AND SEDIMENT CONTROL DETAILS SEE DWG. NO. ESD-1.
3. FOR SECTIONS D-D, E-E, AND F-F SEE DWG. NO. ST-6.
4. THE CONTRACTORS ATTENTION IS DIRECTED TO THE FACT THAT THERE IS NO "AS-BUILT" DRAWINGS FOR THE ABUTMENT AND WINGWALLS. SUBSTRUCTURES SHOWN ARE TO BE CONSIDERED APPROXIMATE.
5. NATIVE STREAMBED MATERIALS REMOVED SHALL BE RELOCATED ON-SITE A.O.B.E..

HIGHWAY EMBANKMENT MATERIAL
ITEM 203.03

STONE FILLING (HEAVY)
ITEM 620.05

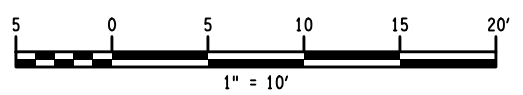
PROPOSED STATION LINE & T.G.L.

END OF APPROACH SLAB

LIMITS OF EXISTING SUBSTRUCTURE REMOVAL
ITEM 202.19
SEE NOTE 4

LIMITS OF STREAMBED IMPACTS
SEE NOTE 5

NORTH ABUTMENT PLAN



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
ON: FEBRUARY 21, 2024

ALTERED BY:
ON:



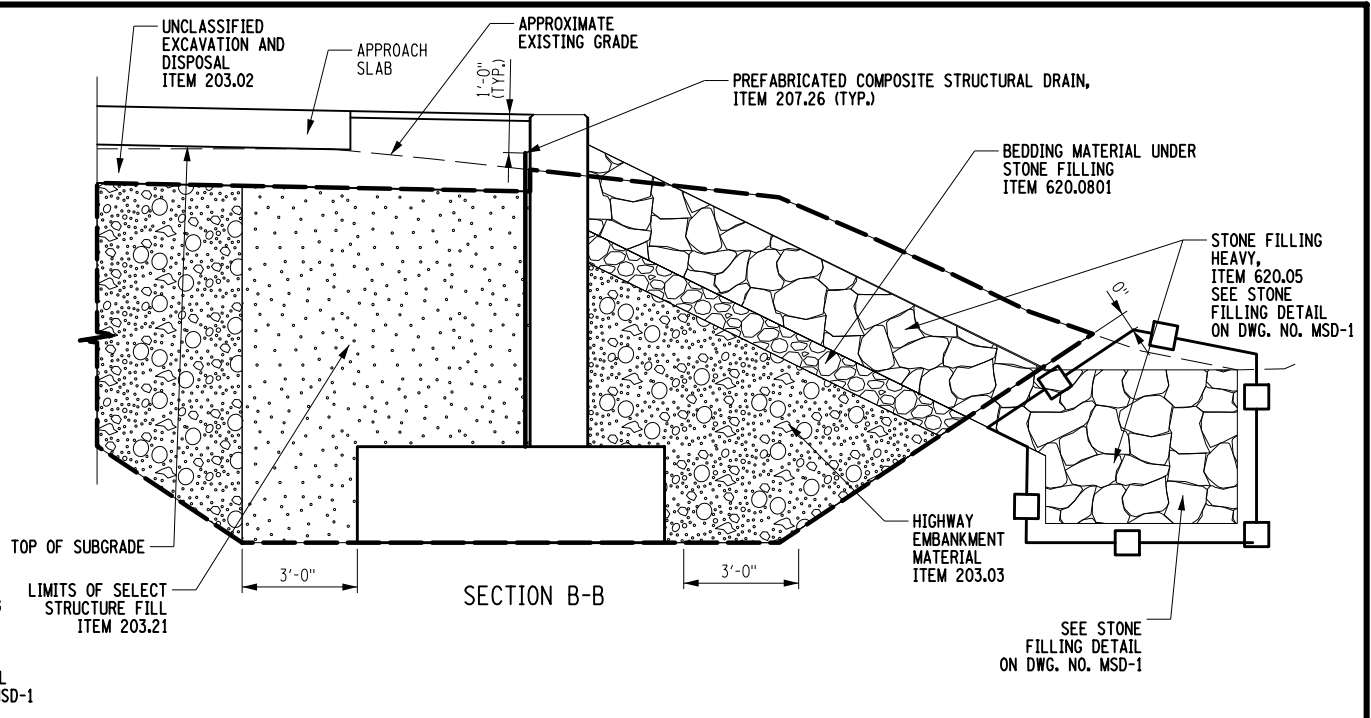
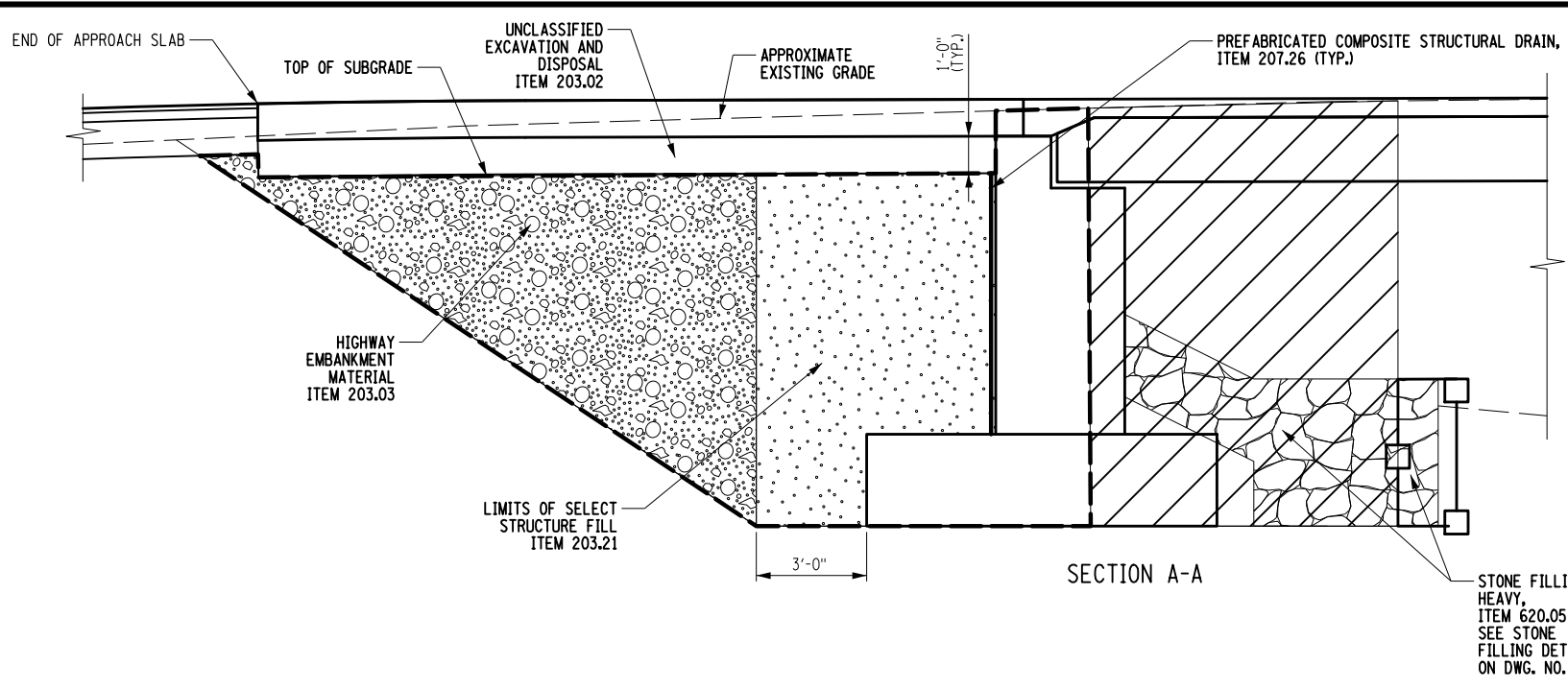
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM					
COUNTY: MONTGOMERY					EXCAVATION AND EMBANKMENT PLAN (2 OF 2)	DRAWING NO. ST-4 SHEET NO. 15

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.



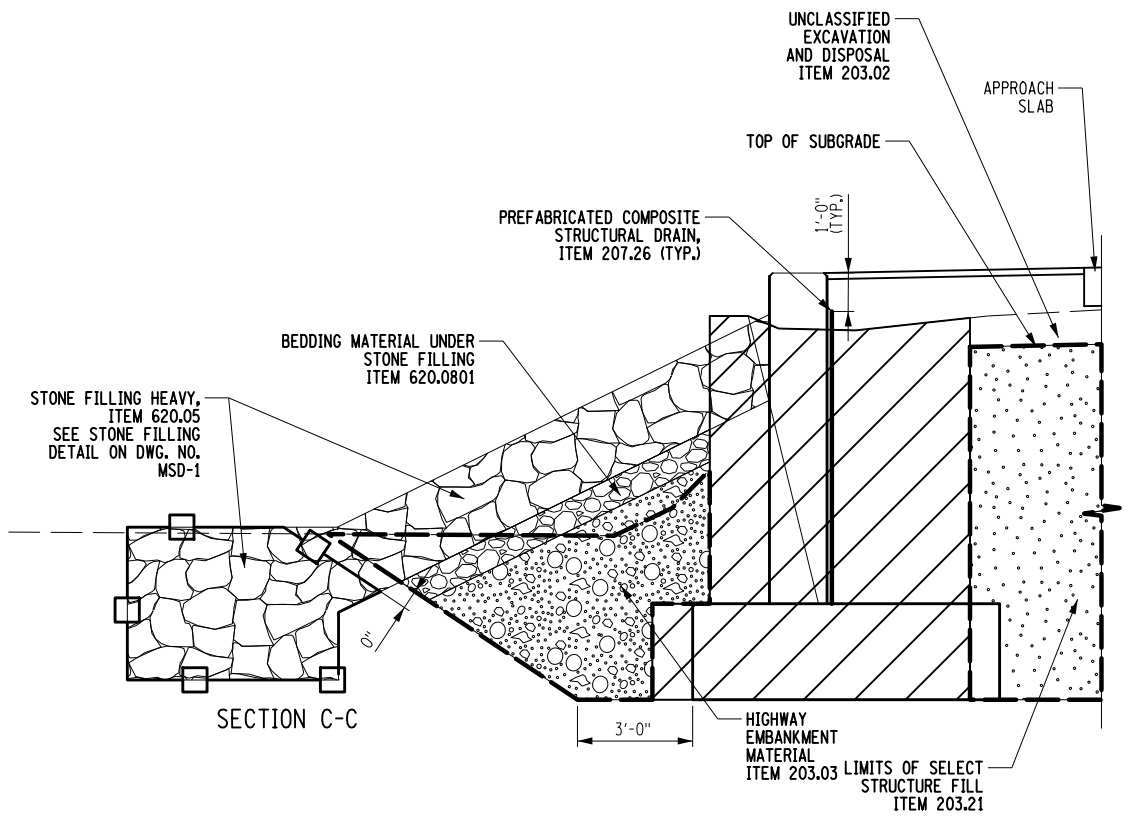
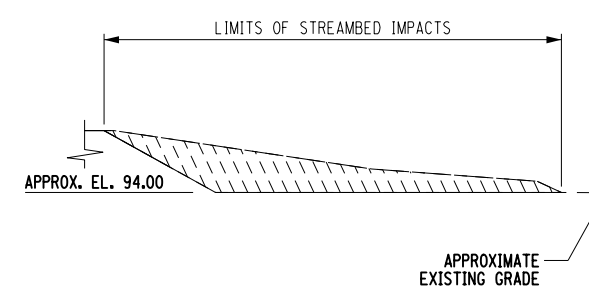
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 CHECK MWO / WNG
 DESIGN JRL
 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT

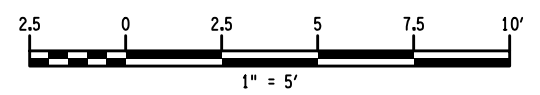


LEGEND

- SELECT STRUCTURE FILL, ITEM 203.21
- HIGHWAY EMBANKMENT MATERIAL, ITEM 203.03
- REMOVAL OF SUBSTRUCTURES, ITEM 202.19
- PREFABRICATED COMPOSITE STRUCTURAL DRAIN, ITEM 207.26
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION, ITEM 206.01
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAY LINES FOR TRENCH AND CULVERT EXCAVATION, ITEM 206.0201
- STONE FILLING - HEAVY, ITEM 620.05
- STONE FILLING - MEDIUM, ITEM 620.04
- NATIVE STREAMBED MATERIAL, ITEM 620.29010009
- BEDDING MATERIAL - TYPE 1, ITEM 620.0801



- NOTES:**
1. MATERIALS REMOVED AND PAID FOR UNDER THE REMOVAL OF SUBSTRUCTURES ITEM SHALL NOT ALSO BE PAID FOR UNDER THE STRUCTURE EXCAVATION ITEM.
 2. FOR SOUTH ABUTMENT EXCAVATION AND EMBANKMENT PLAN SEE DWG. NO. ST-3.



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024

ALTERED BY:
 ON:



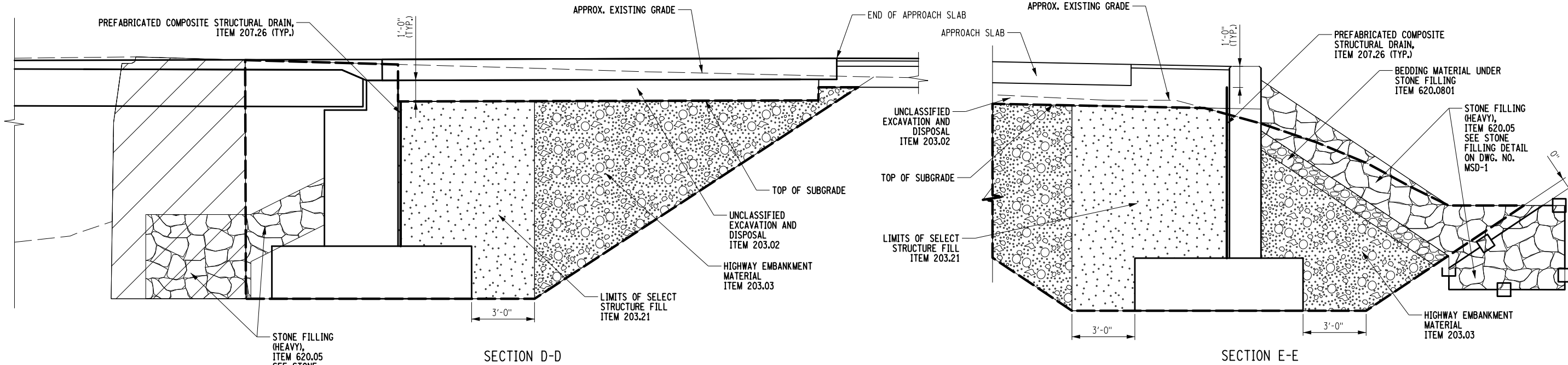
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED EXCAVATION AND EMBANKMENT SECTIONS (1 OF 2)	CONTRACT NUMBER RFP 04-24
					TOWN OF AMSTERDAM COUNTY: MONTGOMERY	DRAWING NO. ST-5 SHEET NO. 16

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.



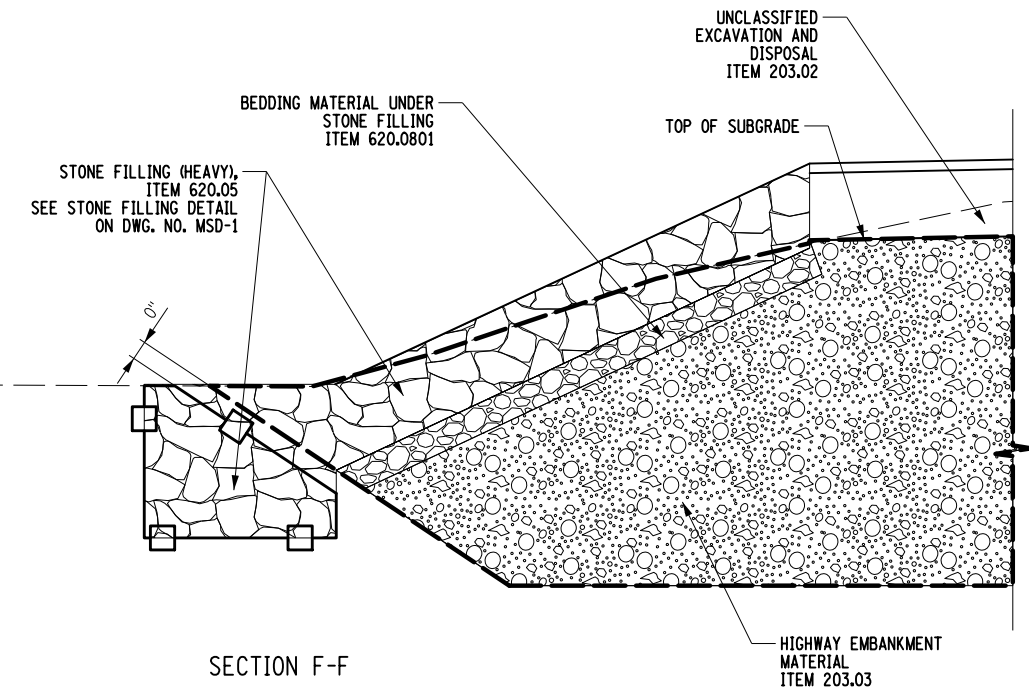
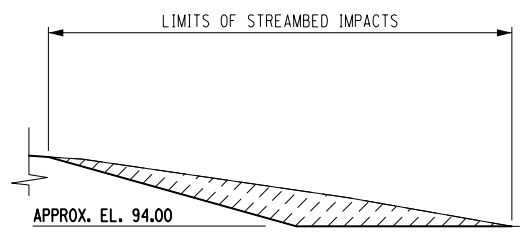
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 CHECK MWO / WNG
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 DESIGN SUPERVISOR EKT



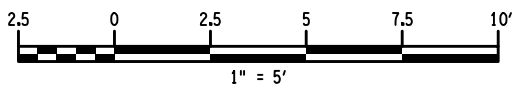
LEGEND

- SELECT STRUCTURE FILL, ITEM 203.21
- HIGHWAY EMBANKMENT MATERIAL, ITEM 203.03
- REMOVAL OF SUBSTRUCTURES, ITEM 202.19
- PREFABRICATED COMPOSITE STRUCTURAL DRAIN, ITEM 207.26
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAYMENT LINES FOR STRUCTURE EXCAVATION, ITEM 206.01
- AREA ENCLOSED WITHIN THESE LINES DESIGNATES PAY LINES FOR TRENCH AND CULVERT EXCAVATION, ITEM 206.0201
- STONE FILLING - HEAVY, ITEM 620.05
- STONE FILLING - MEDIUM, ITEM 620.04
- NATIVE STREAMBED MATERIAL, ITEM 620.29010009
- BEDDING MATERIAL - TYPE 1, ITEM 620.0801



NOTES:

1. MATERIALS REMOVED AND PAID FOR UNDER THE REMOVAL OF SUBSTRUCTURES ITEM SHALL NOT ALSO BE PAID FOR UNDER THE STRUCTURE EXCAVATION ITEM.
2. FOR NORTH ABUTMENT EXCAVATION AND EMBANKMENT PLAN SEE DWG. NO. ST-4.



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024
 ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
	TOWN OF AMSTERDAM				EXCAVATION AND EMBANKMENT SECTIONS (2 OF 2)
	COUNTY: MONTGOMERY				

CONTRACT NUMBER RFP 04-24
DRAWING NO. ST-6 SHEET NO. 17

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.



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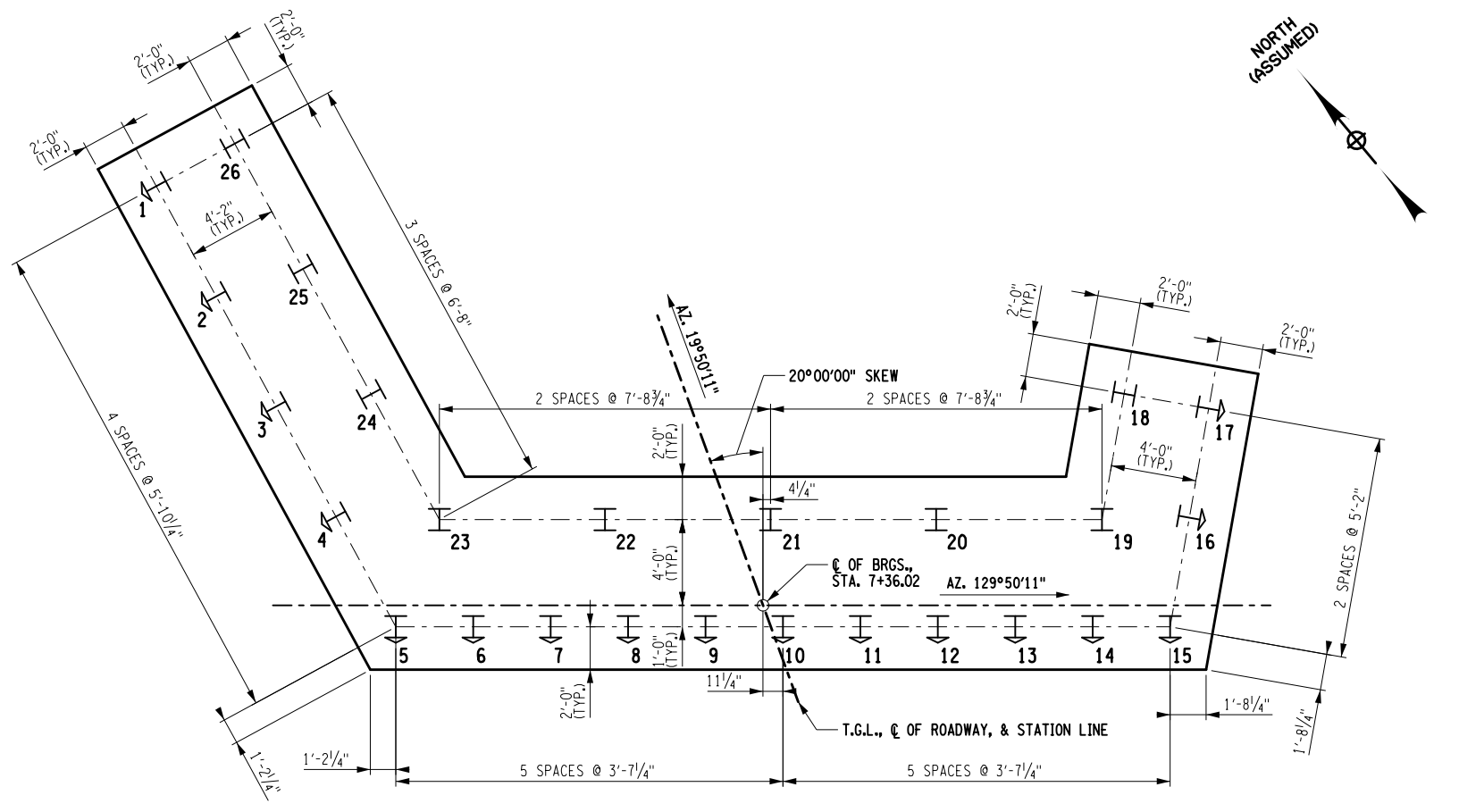
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 DRAFTING KAM / JRL
 CHECK MWO / WNG
 DESIGN JRL
 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT

PILE TABLE			
SOUTH ABUTMENT		NORTH ABUTMENT	
PILE NO.	LENGTH BELOW CUT-OFF (FT)	PILE NO.	LENGTH BELOW CUT-OFF (FT)
1		1	
2		2	
3		3	
4		4	
5		5	
6		6	
7		7	
8		8	
9		9	
10		10	
11		11	
12		12	
13		13	
14		14	
15		15	
16		16	
17		17	
18		18	
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		25	
		26	

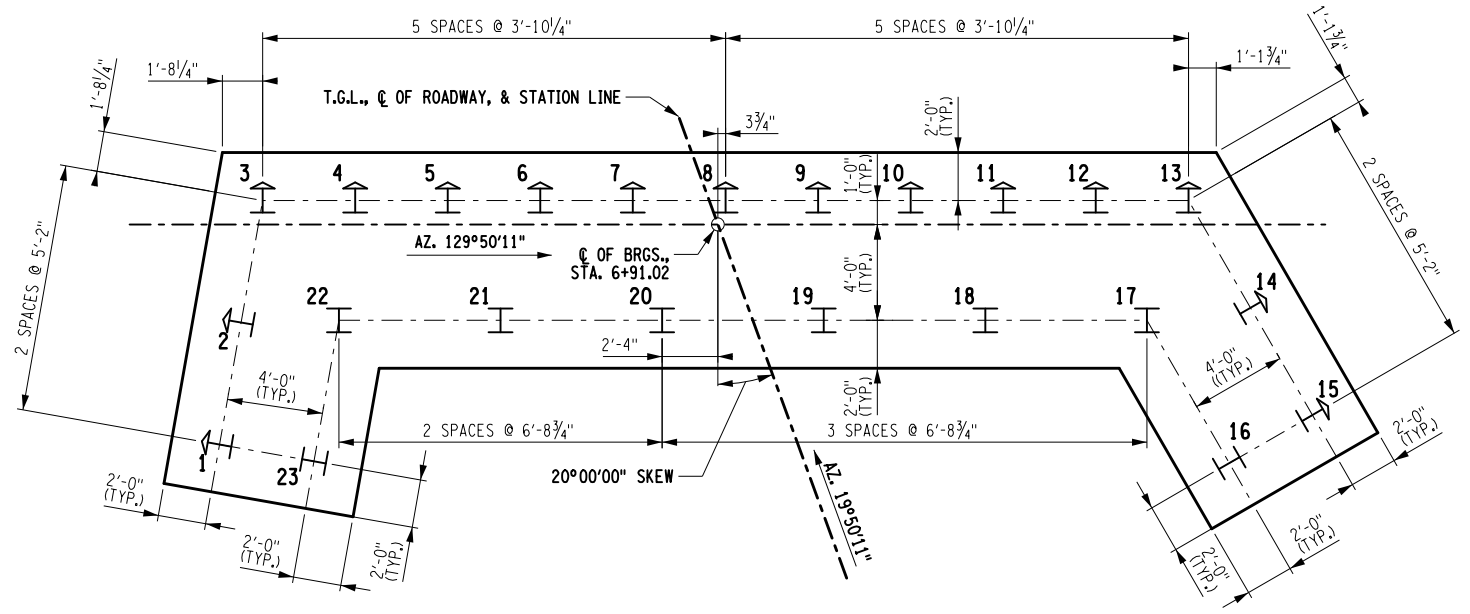
- NOTES:
- H-PILES SHALL BE EQUIPPED WITH POINTS, HP-77750-B, MANUFACTURED BY ASSOCIATED PILE & FITTING CORP., CLIFTON, NJ, OR EQUIVALENT AS APPROVED BY THE ENGINEER.
 - THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE COMPACT TO VERY COMPACT NATURE OF THE GLACIAL TILL SOILS AT THIS SITE, AS INDICATED BY STANDARD PENETRATION TEST (SPT) BLOW COUNTS. COBBLES AND BOULDERS SHOULD BE ANTICIPATED. THE CONTRACTOR SHALL BE PREPARED TO USE A HEAVIER HAMMER, IF NEEDED, TO FACILITATE INSTALLATION OF THE PILES.
 - PILES SHALL BE DRIVEN TO AN ULTIMATE CAPACITY (NOMINAL BEARING RESISTANCE) OF 150 TONS (300 KIPS).
 - ALL PILES SHALL BE INSTALLED TO A MINIMUM DEPTH OF APPROXIMATELY 24 FEET BELOW THE BOTTOM OF FOOTING, CORRESPONDING TO THE ESTIMATED DEPTH OF THE LOWER, VERY DENSE GLACIAL TILL LAYER.
 - THE CONTRACTOR SHALL PERFORM A DYNAMIC LOAD TEST ON THE FIRST PILE DRIVEN AT EACH ABUTMENT (2 TESTS TOTAL). SUBMIT A DYNAMIC PILE LOAD TEST REPORT SEALED BY A PROFESSIONAL ENGINEER LICENSED IN NEW YORK STATE. THE RESULTS OF THE LOAD TEST SHALL BE USED TO ESTABLISH THE DRIVING CRITERION FOR PILE INSTALLATION, AS APPROVED BY THE ENGINEER. THE DYNAMIC LOAD TEST SHALL ALSO BE USED TO VERIFY THAT THE PILES ARE NOT OVERSTRESSED AS THEY ARE DRIVEN. ALL PILES SHALL BE DRIVEN TO THE CRITERIA ESTABLISHED BY THE DYNAMIC LOAD TEST, BASED ON AN ULTIMATE AXIAL CAPACITY (NOMINAL BEARING RESISTANCE) OF 300 KIPS.
 - ALLOWABLE PILE DRIVING STRESSES SHALL NOT EXCEED 90% OF THE YIELD STRENGTH OF THE STEEL, GRADE 50 MINIMUM.
 - THE WATER LEVELS NOTED ON THE BORING LOGS MAY NOT BE INDICATIVE OF ACTUAL WATER CONDITIONS AT THE TIME OF CONSTRUCTION.
 - ESTIMATED PILE LENGTHS, ASSUMING 10 FT PENETRATION INTO THE LOWER VERY DENSE GLACIAL TILL AND INCLUDING 1-FOOT STICKUP INTO THE FOOTING, ARE 35 FT FOR THE SOUTH ABUTMENT AND 35 FT FOR THE NORTH ABUTMENT.
 - FOR SOIL BORING LOCATIONS SEE DWG. NO. ST-1.
 - FOR SOIL BORING INFORMATION AND BORING LOGS SEE APPENDIX B OF THE PROJECT PROPOSAL.
 - FOR PILE DETAILS AND NOTES SEE DWG. NO. MSD-1.
 - CONTRACTOR SHALL VERIFY CLEAR SAFE DISTANCE(S) TO OVERHEAD UTILITIES PRIOR TO MOBILIZING DRIVING EQUIPMENT TO THE SITE.

LEGEND

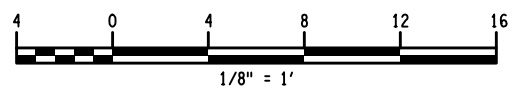
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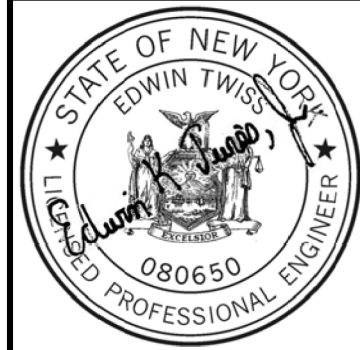
NORTH ABUTMENT PILE LAYOUT PLAN



SOUTH ABUTMENT PILE LAYOUT PLAN



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024
 ALTERED BY: ON:



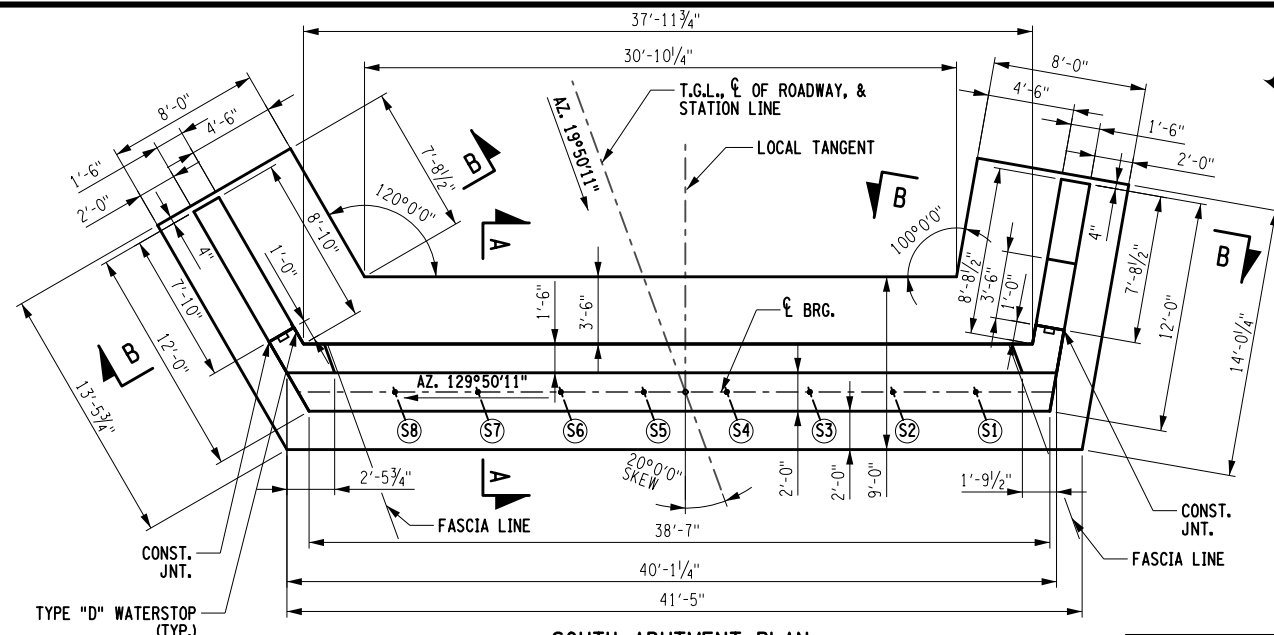
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				PILE LAYOUT PLAN	DRAWING NO. ST-7
	COUNTY: MONTGOMERY					SHEET NO. 18

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.



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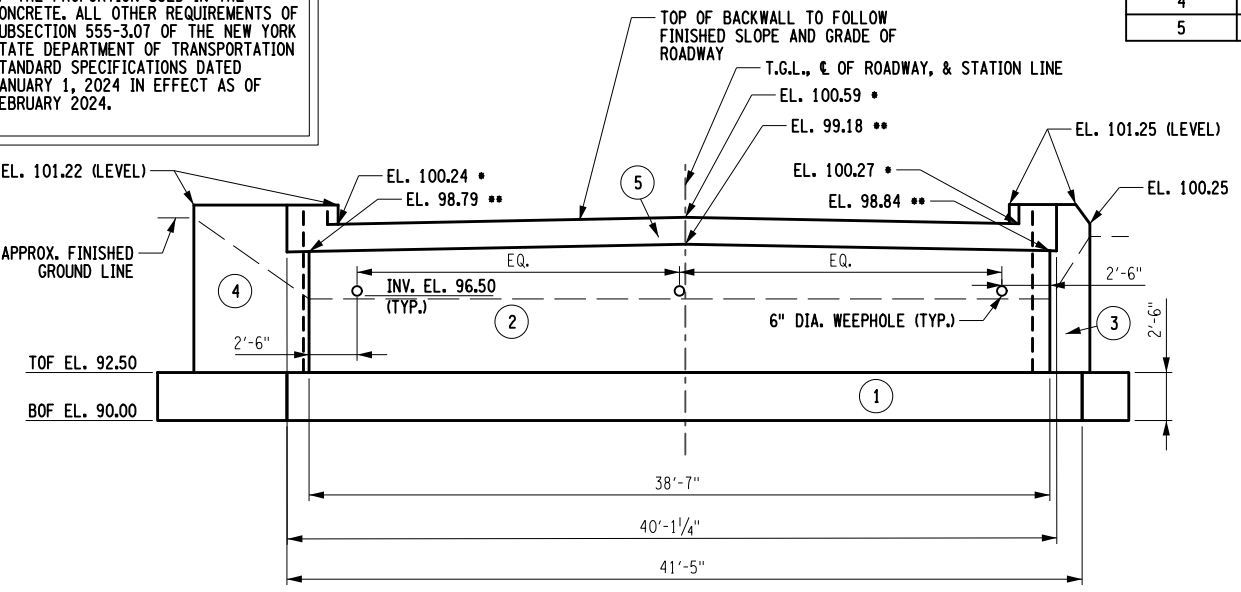
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SOUTH ABUTMENT PLAN

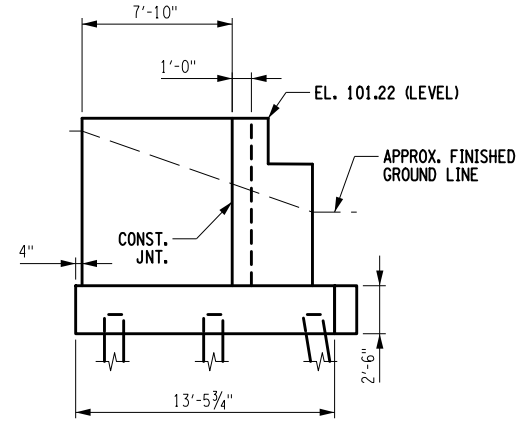
FINISHING CONCRETE SURFACES: IMMEDIATELY AFTER FORMS HAVE BEEN REMOVED, SURFACES EXPOSED TO VIEW SHALL HAVE ALL PROJECTIONS AND IRREGULARITIES REMOVED AND ALL CAVITIES NEATLY FILLED WITH MORTAR OF THE PROPORTION USED IN THE CONCRETE. ALL OTHER REQUIREMENTS OF SUBSECTION 555-3.07 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED JANUARY 1, 2024 IN EFFECT AS OF FEBRUARY 2024.

CONCRETE TABLE		
PLACEMENT	QUANTITY (CY)	ITEM NO.
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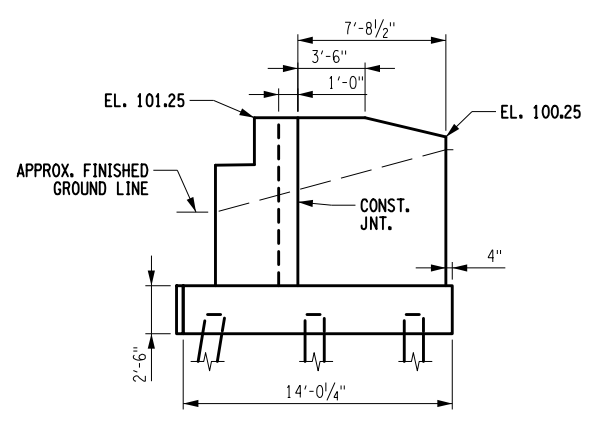


SOUTH ABUTMENT ELEVATION

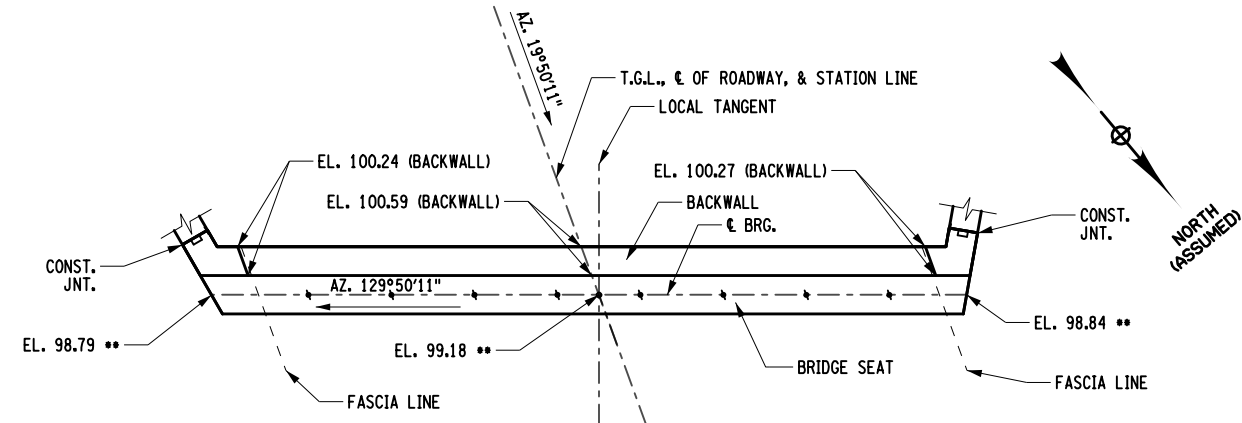
• ELEVATION SHOWN AT FRONT FACE OF BACKWALL
 •• ELEVATION SHOWN AT & OF BEARINGS



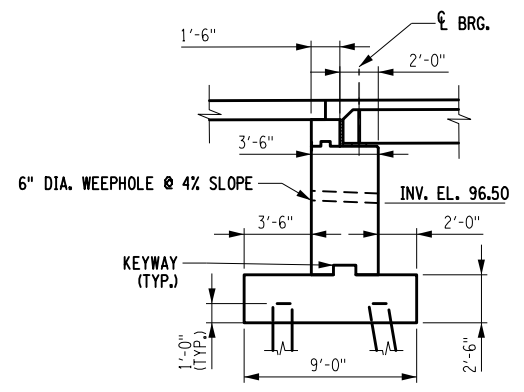
SOUTHEAST WINGWALL ELEVATION



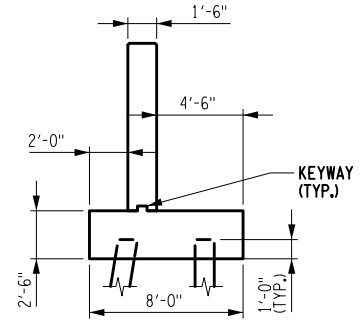
SOUTHWEST WINGWALL ELEVATION



SOUTH ABUTMENT BRIDGE SEAT PLAN

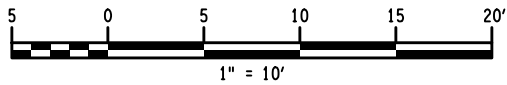


SECTION A-A (TYPICAL ABUTMENT SECTION)



SECTION B-B (TYPICAL WINWALL SECTION)

- NOTES:
- (NO.) - INDICATES CONCRETE PLACEMENT NUMBER
 - 1. CONCRETE POUR QUANTITIES ARE BASED ON DIMENSIONS SHOWN.
 - 2. REINFORCEMENT NOT SHOWN.
 - 3. FOR SOUTH ABUTMENT REINFORCEMENT PLANS AND SECTION, SEE DWG. NO. ST-9.
 - 4. FOR SOUTH ABUTMENT WINGWALL REINFORCEMENT SECTIONS AND ELEVATIONS, SEE DWG. NO. ST-12.
 - 5. FOR NORTH ABUTMENT PLAN AND ELEVATION, SEE DWG. NO. ST-10.
 - 6. FOR WATERSTOP DETAIL, SEE DWG. NO. MSD-1.
 - 7. FOR CHAMFER DETAIL, SEE DWG. NO. MSD-1.
 - 8. FOR BEARING DETAILS, SEE DWG. NO. ST-16.
 - 9. FOR KEYWAY AND CONSTRUCTION JOINT DETAILS, SEE DWG. NO. MSD-1.



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
ON: FEBRUARY 21, 2024

ALTERED BY:
ON:



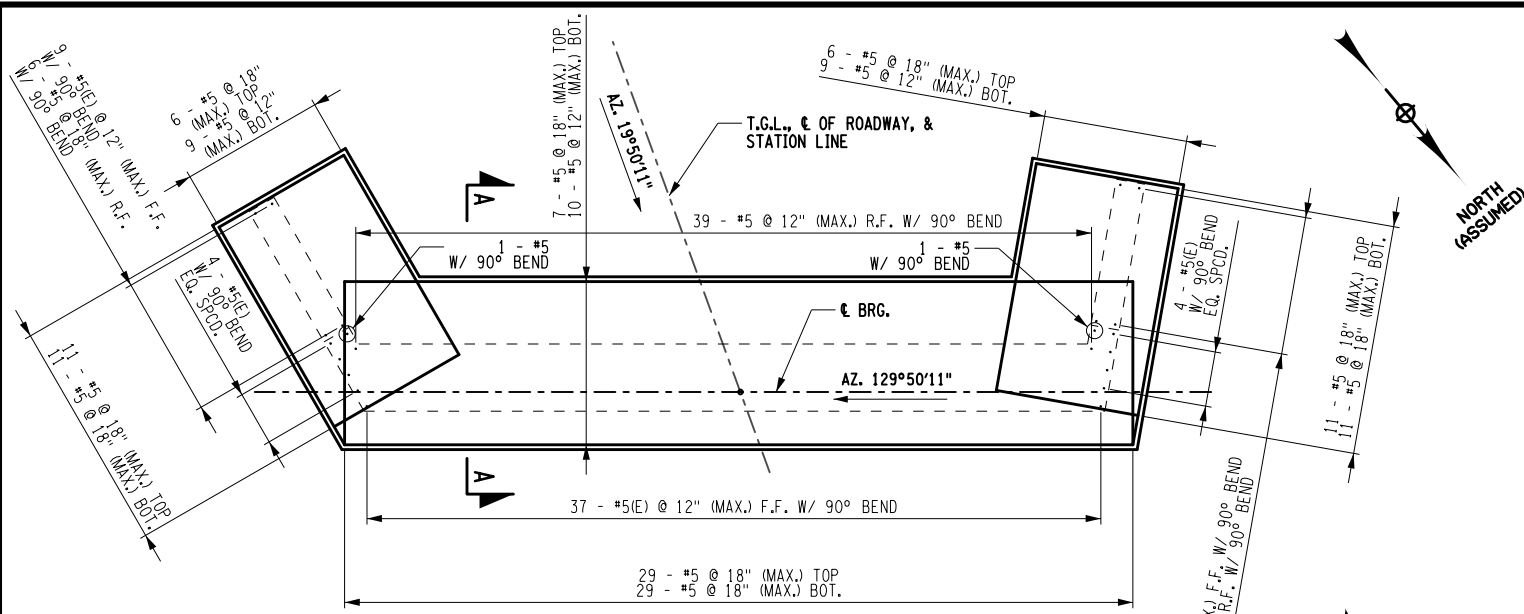
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	TOWN OF AMSTERDAM				SOUTH ABUTMENT PLAN AND ELEVATION	DRAWING NO. ST-8
	COUNTY: MONTGOMERY					SHEET NO. 19

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.

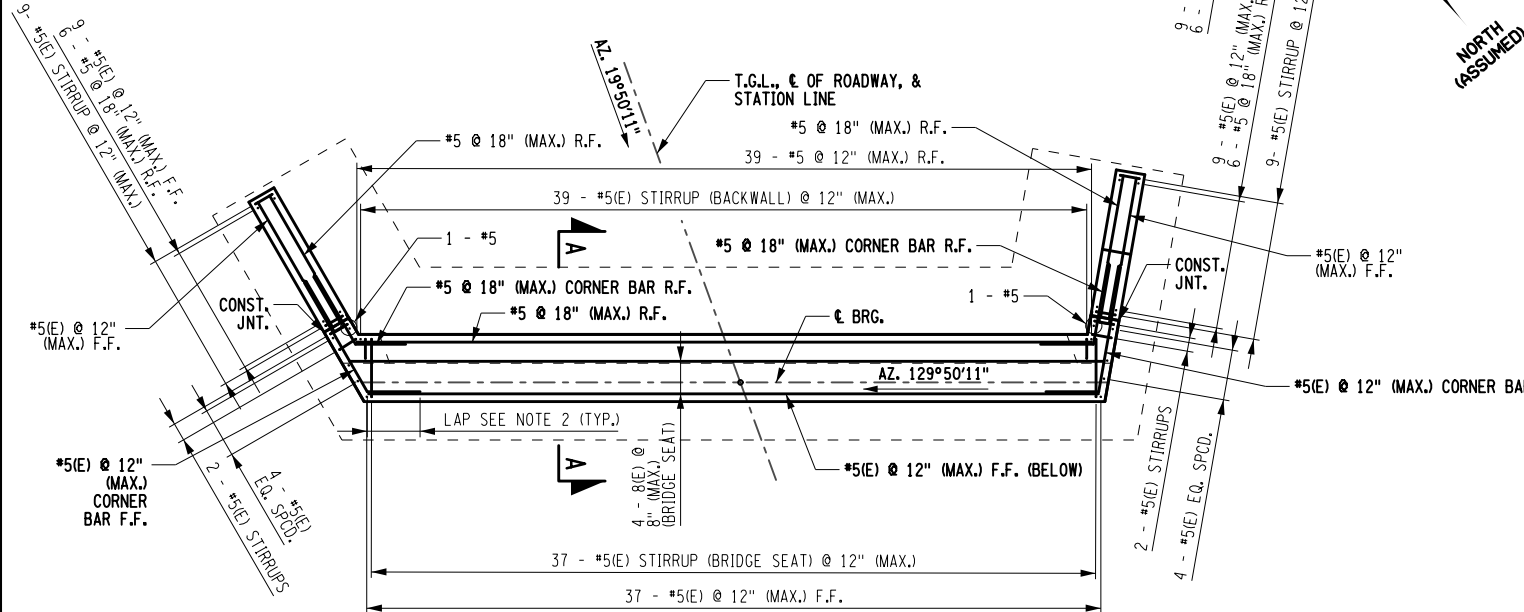
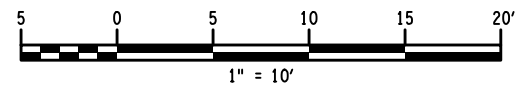


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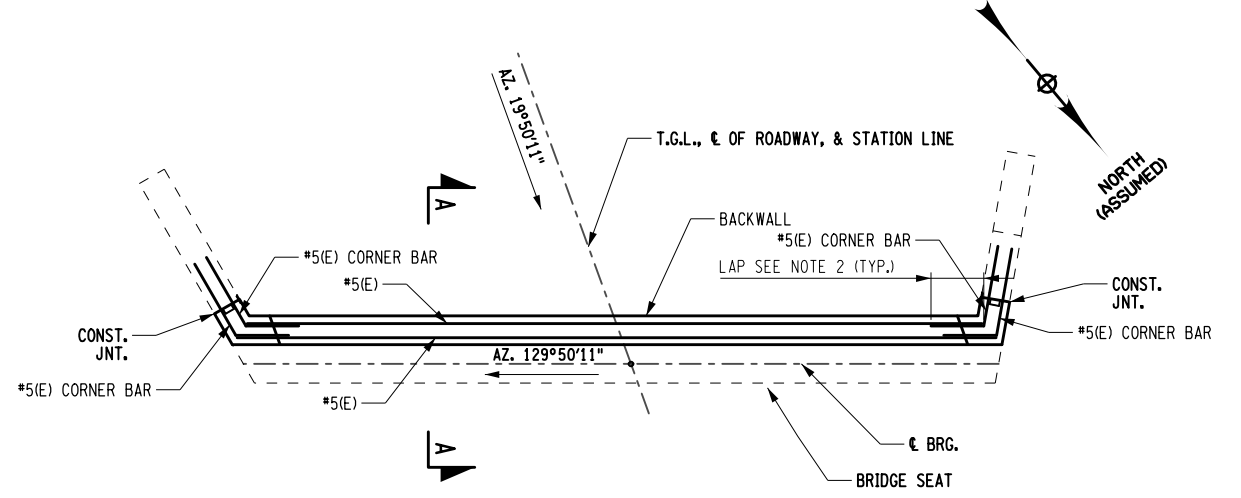
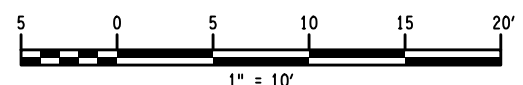
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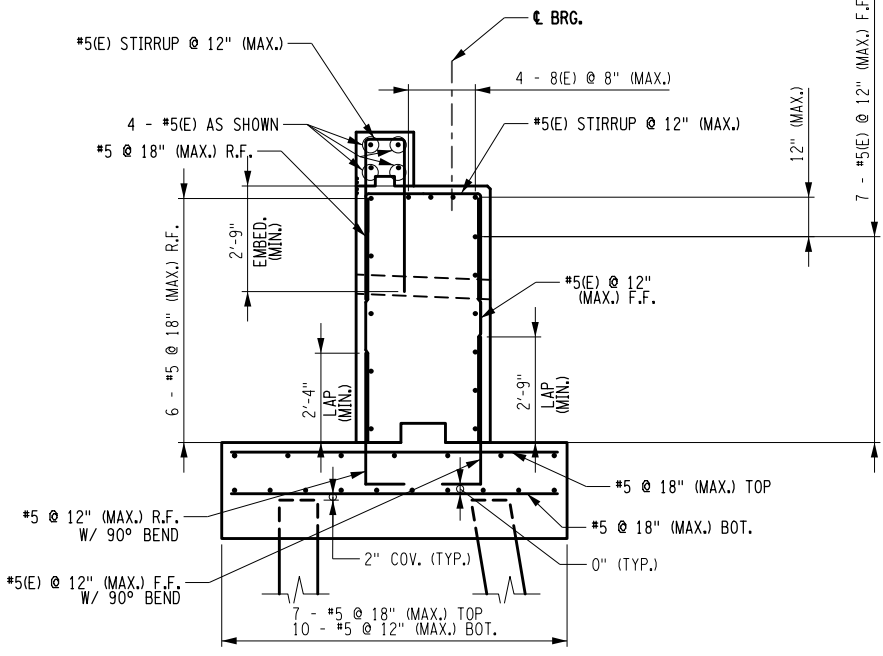
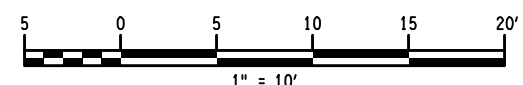
SOUTH FOOTING REINFORCEMENT PLAN



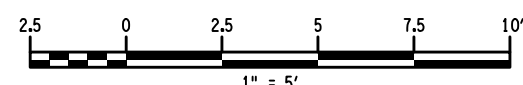
SOUTH STEM AND WINGWALLS REINFORCEMENT PLAN



SOUTH BACKWALL REINFORCEMENT PLAN



SECTION A-A (SOUTH ABUTMENT REINFORCEMENT SECTION)



- NOTES:
- COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 3" UNLESS OTHERWISE NOTED. ALL OTHER COVER SHALL BE 2"
 - UNLESS OTHERWISE NOTED ALL LAPS SHALL BE AS FOLLOWS:
 #5 EPOXY COATED BARS, LAP = 2'-9"
 #5 UNCOATED BARS, LAP = 2'-4"
 - CORNER REINFORCEMENT SHALL BE INCLUDED AT ALL INSIDE AND OUTSIDE CORNERS OF ABUTMENT, WINGWALLS, AND BACKWALLS. BAR SIZE, LAP LENGTH, AND SPACING SHALL MATCH WALL WITH THE MOST HORIZONTAL BARS.
- (E) - DENOTES EPOXY COATED REINFORCEMENT

AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024
 ALTERED BY:
 ON:



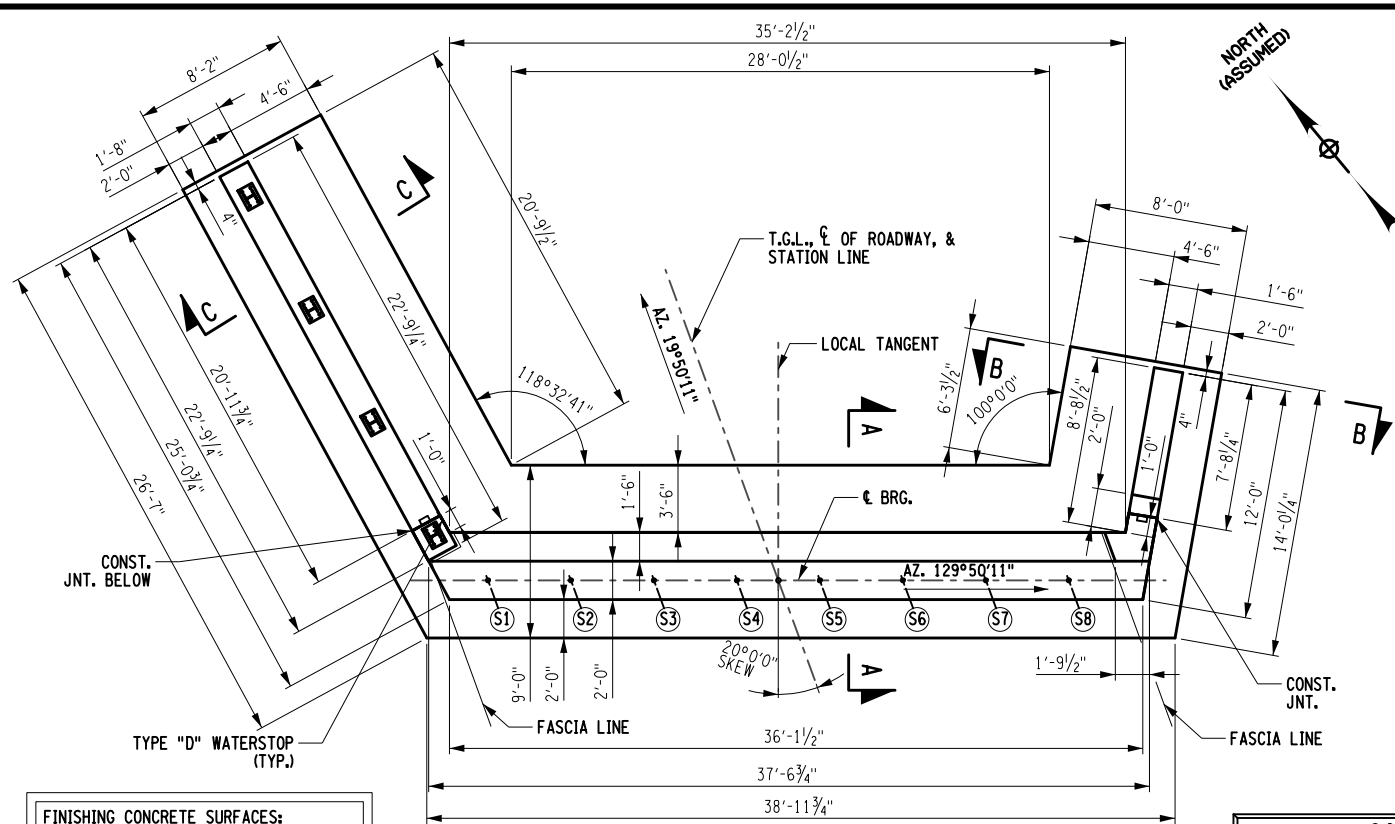
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	TOWN OF AMSTERDAM				SOUTH ABUTMENT REINFORCEMENT PLAN	DRAWING NO. ST-9
	COUNTY: MONTGOMERY					SHEET NO. 20

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.



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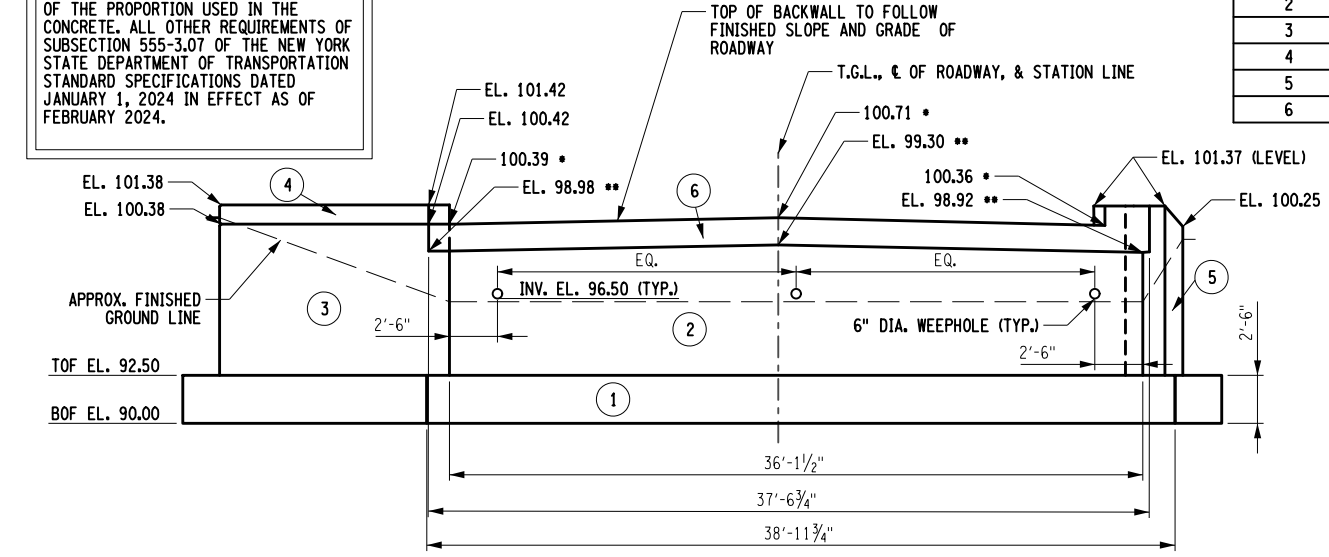
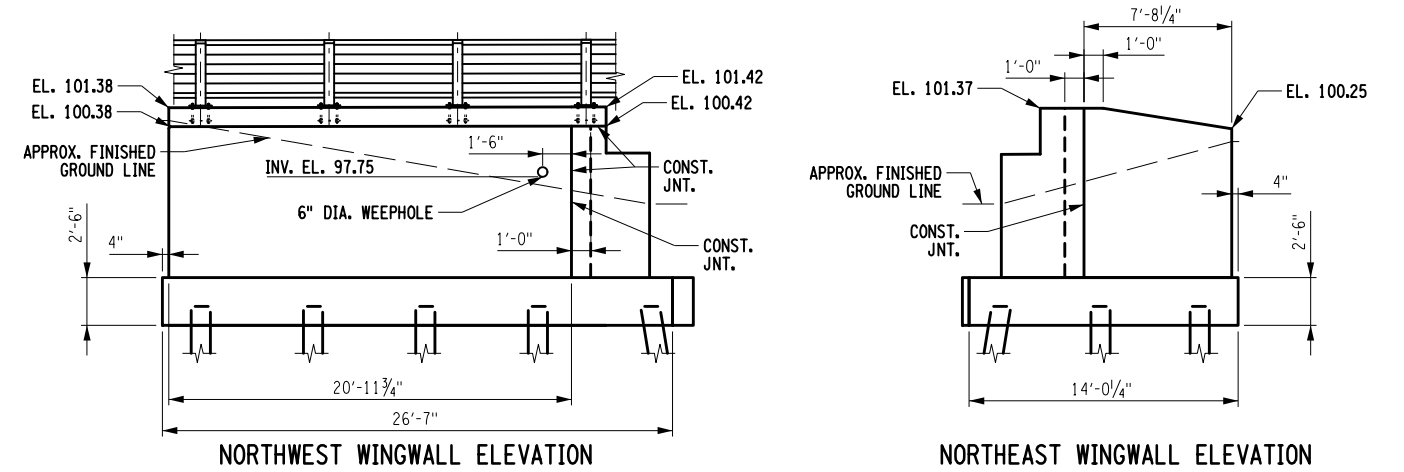
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 CHECK MWO / WNG
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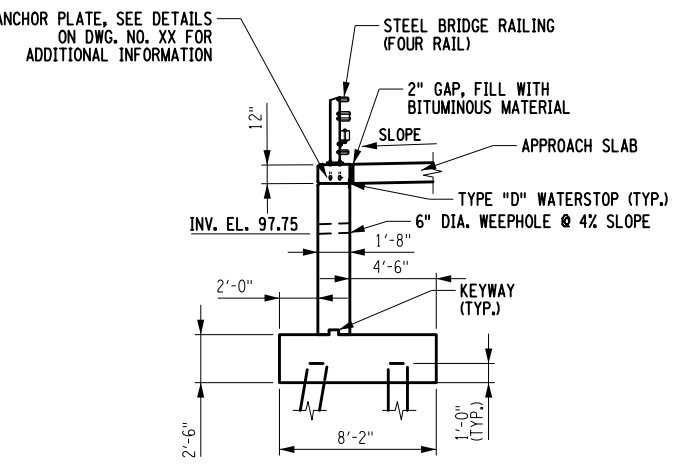
NORTH ABUTMENT PLAN

FINISHING CONCRETE SURFACES:
 IMMEDIATELY AFTER FORMS HAVE BEEN REMOVED, SURFACES EXPOSED TO VIEW SHALL HAVE ALL PROJECTIONS AND IRREGULARITIES REMOVED AND ALL CAVITIES NEATLY FILLED WITH MORTAR OF THE PROPORTION USED IN THE CONCRETE. ALL OTHER REQUIREMENTS OF SUBSECTION 555-3.07 OF THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED JANUARY 1, 2024 IN EFFECT AS OF FEBRUARY 2024.

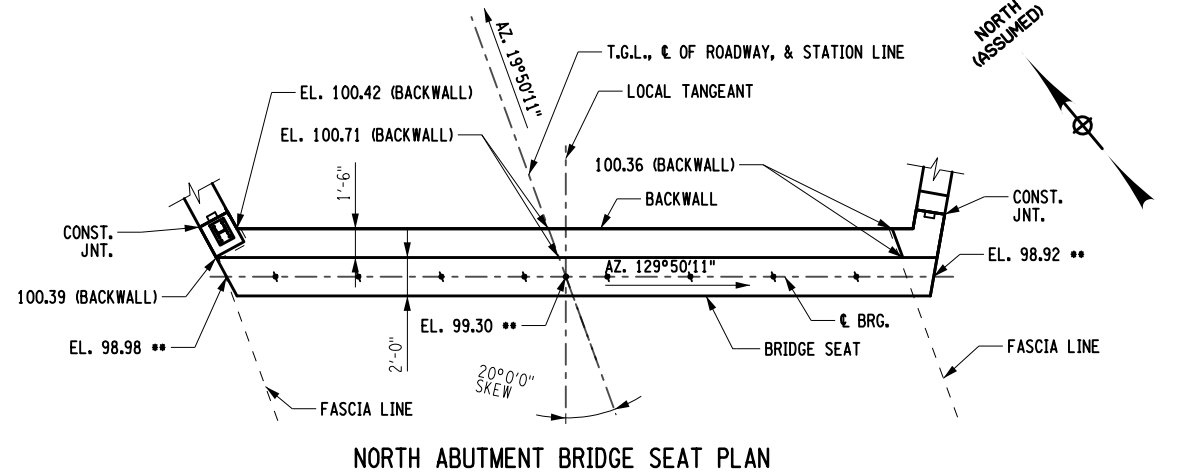
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5	3.6	555.97010016
6	3.3	555.97010016



NORTH ABUTMENT ELEVATION



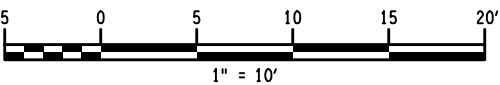
SECTION C-C (NW WINGWALL)



NORTH ABUTMENT BRIDGE SEAT PLAN

- NOTES:
- ① - INDICATES CONCRETE PLACEMENT NUMBER
 - 1. CONCRETE POUR QUANTITIES ARE BASED ON DIMENSIONS SHOWN.
 - 2. REINFORCEMENT NOT SHOWN.
 - 3. FOR NORTH ABUTMENT REINFORCEMENT PLANS AND SECTION, SEE DWG. NO. ST-11.
 - 4. FOR NORTH ABUTMENT WINGWALL REINFORCEMENT SECTIONS AND ELEVATIONS, SEE DWG. NO. ST-12.
 - 5. FOR SOUTH ABUTMENT PLAN AND ELEVATION, SEE DWG. NO. ST-8.
 - 6. FOR SECTIONS A-A & B-B, SEE DWG. NO. ST-8.
 - 7. FOR WATERSTOP DETAIL, SEE DWG. NO. MSD-1.
 - 8. FOR CHAMFER DETAIL, SEE DWG. NO. MSD-1.
 - 9. FOR BEARING DETAILS, SEE DWG. NO. ST-16.
 - 10. FOR KEYWAY AND CONSTRUCTION JOINT DETAILS, SEE DWG. NO. MSD-1.

AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024
 ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				NORTH ABUTMENT PLAN AND ELEVATION	DRAWING NO. ST-10
	COUNTY: MONTGOMERY					SHEET NO. 21

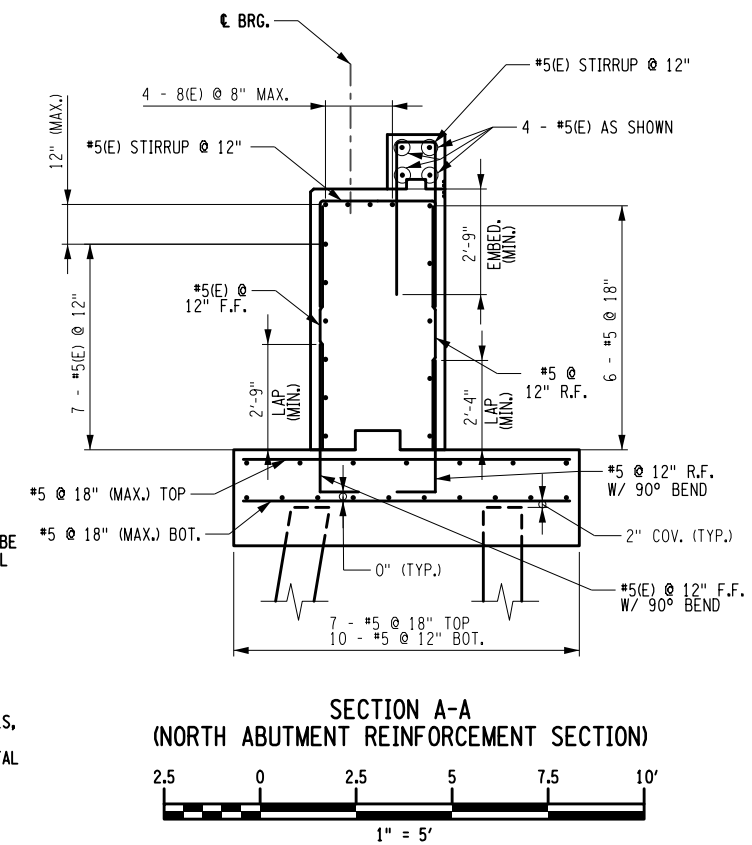
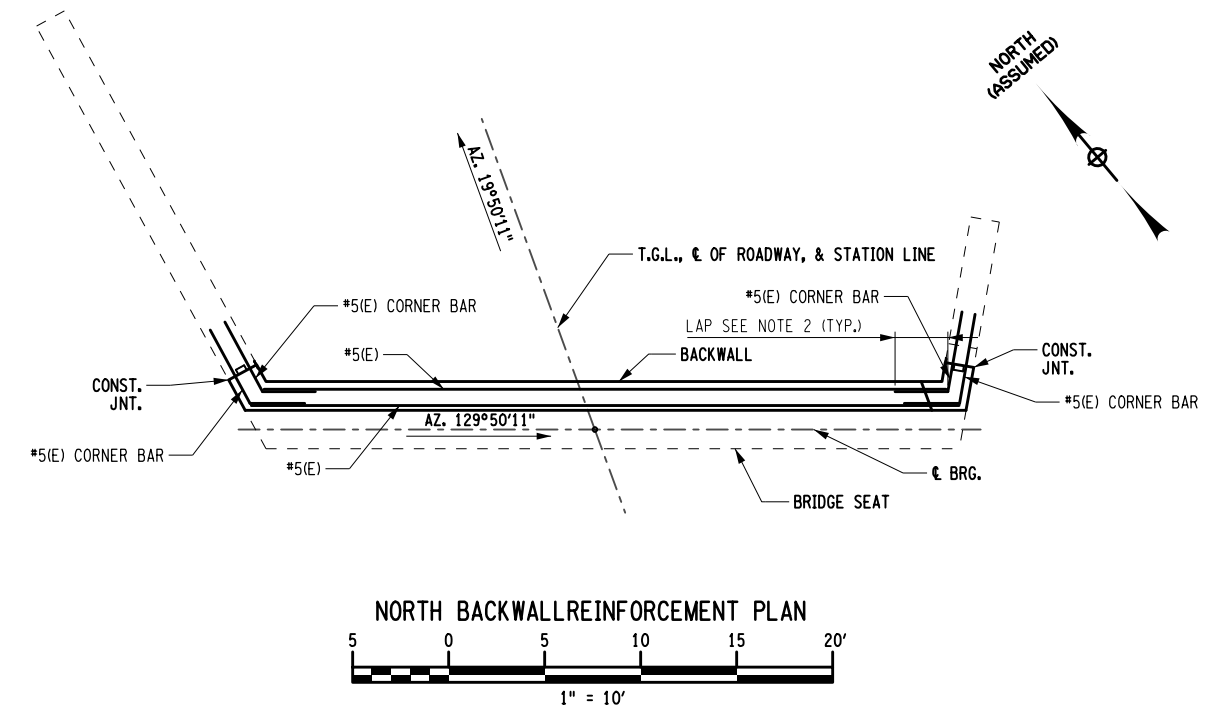
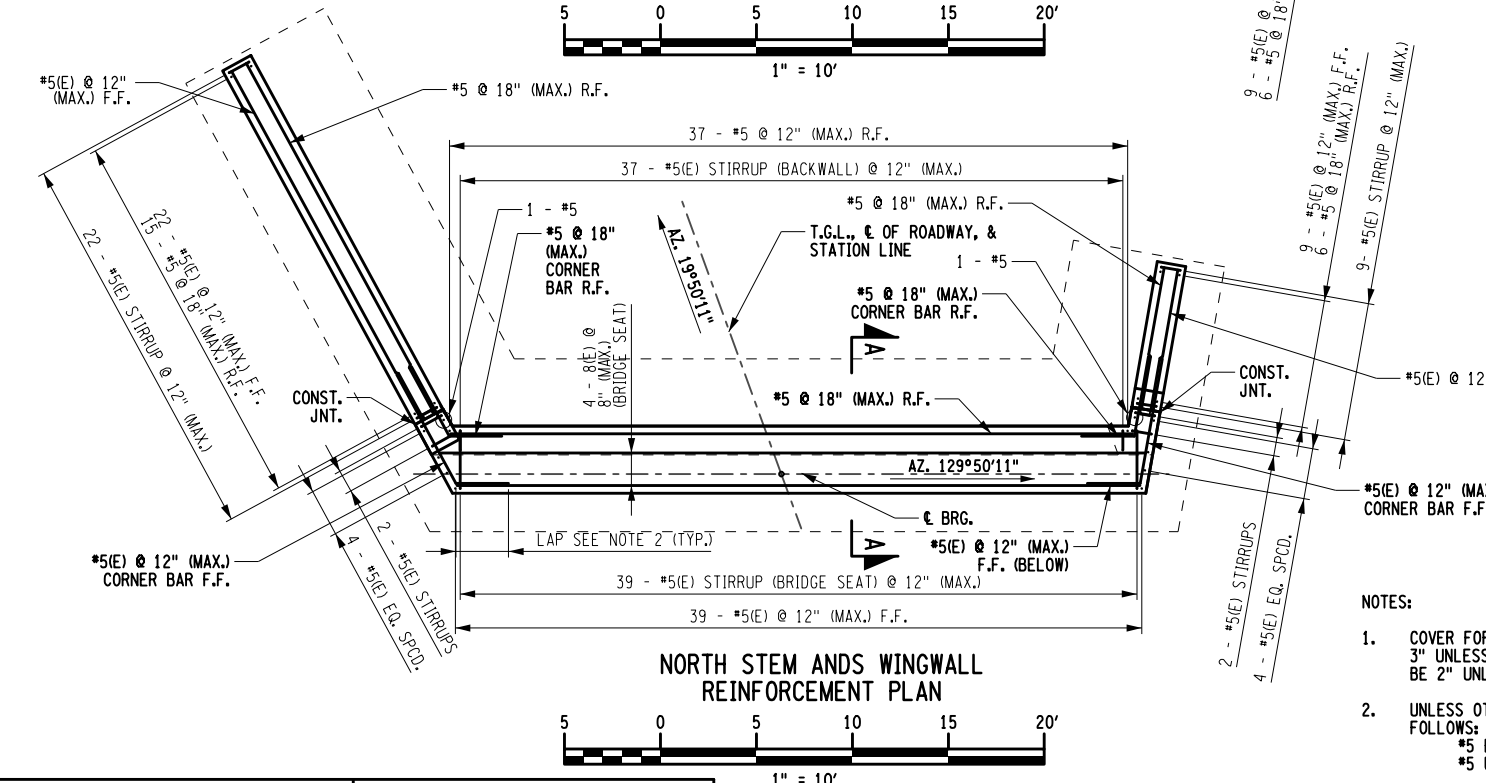
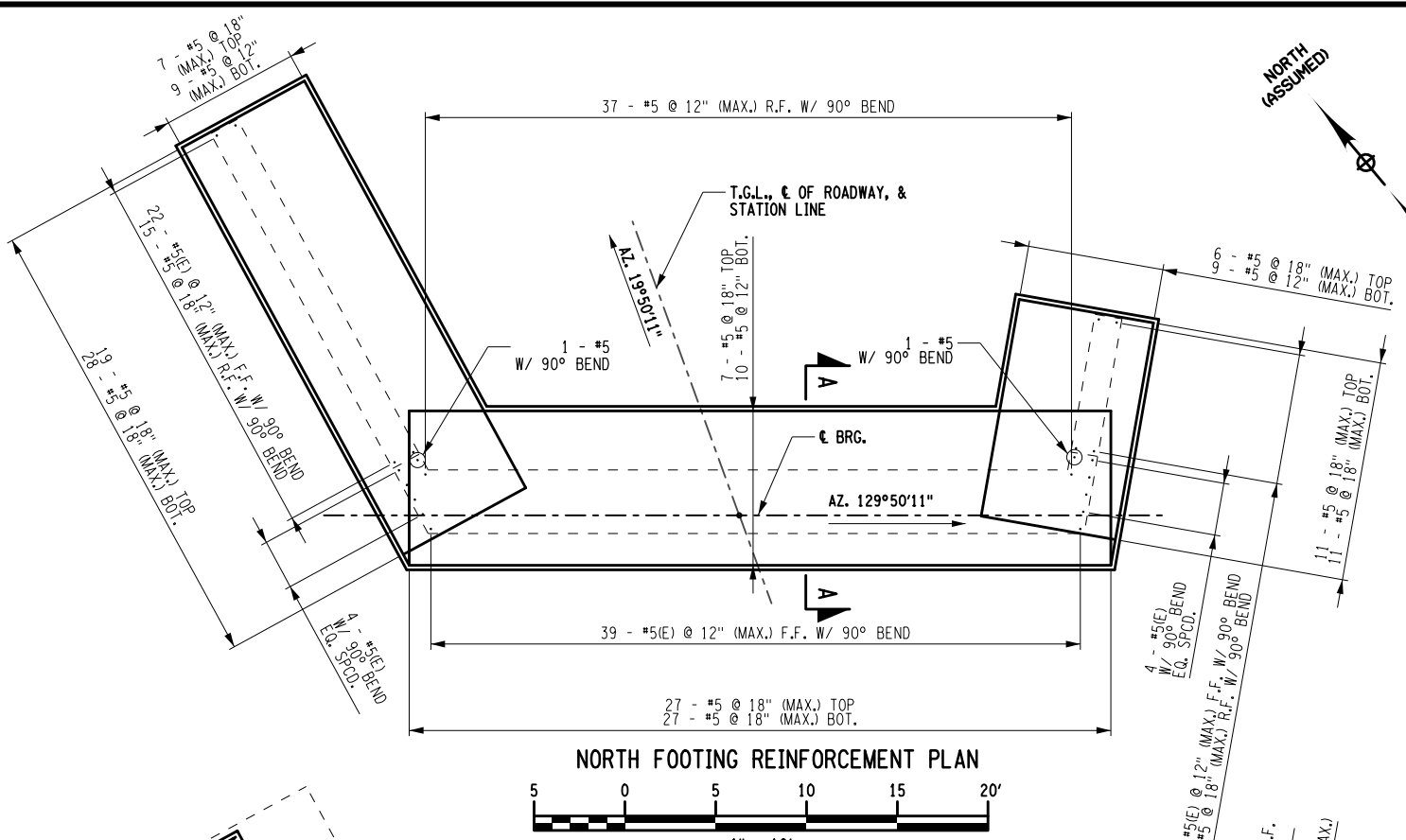
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, 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.



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 DATE/TIME = \$DATE\$
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DESIGN JRL
JOB MANAGER EKT
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NOTES:

- COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 3" UNLESS OTHERWISE NOTED. ALL OTHER COVER SHALL BE 2" UNLESS OTHERWISE NOTED.
 - UNLESS OTHERWISE NOTED ALL LAPS SHALL BE AS FOLLOWS:
#5 EPOXY COATED BARS, LAP = 2'-9"
#5 UNCOATED BARS, LAP = 2'-4"
 - CORNER REINFORCEMENT SHALL BE INCLUDED AT ALL INSIDE AND OUTSIDE CORNERS OF ABUTMENT, WINGWALLS, AND BACKWALLS. BAR SIZE, LAP LENGTH, AND SPACING SHALL MATCH WALL WITH THE MOST HORIZONTAL BARS.
- (E) - DENOTES EPOXY COATED REINFORCEMENT

AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
ON: FEBRUARY 21, 2024

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:

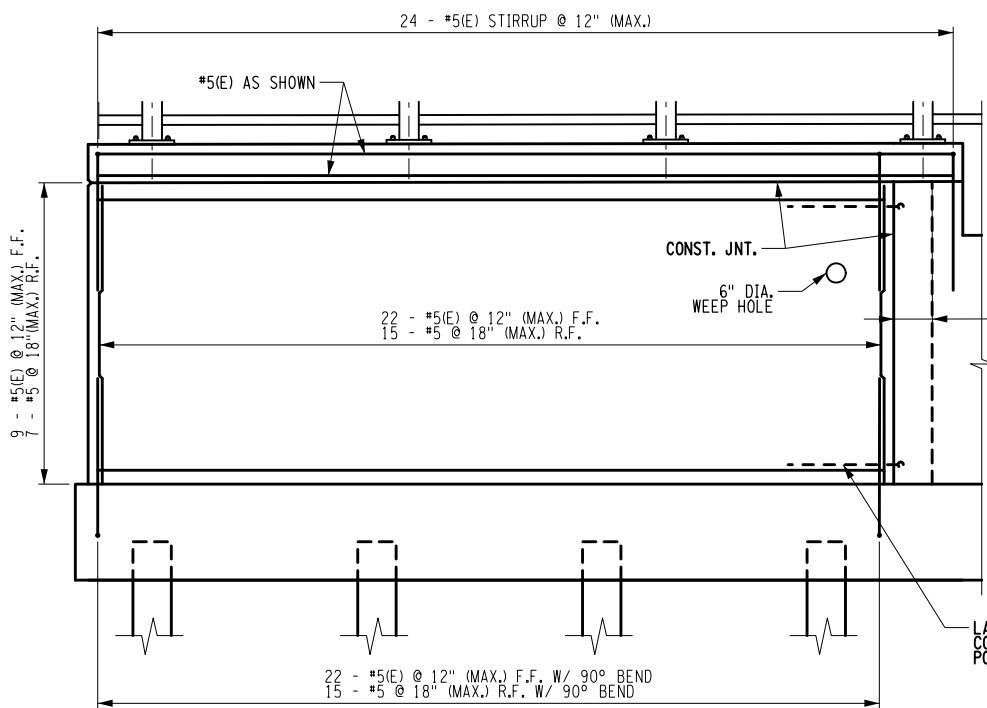
CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A
TOWN OF AMSTERDAM	
COUNTY: MONTGOMERY	

BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
NORTH ABUTMENT REINFORCEMENT PLAN		DRAWING NO. ST-11 SHEET NO. 22	

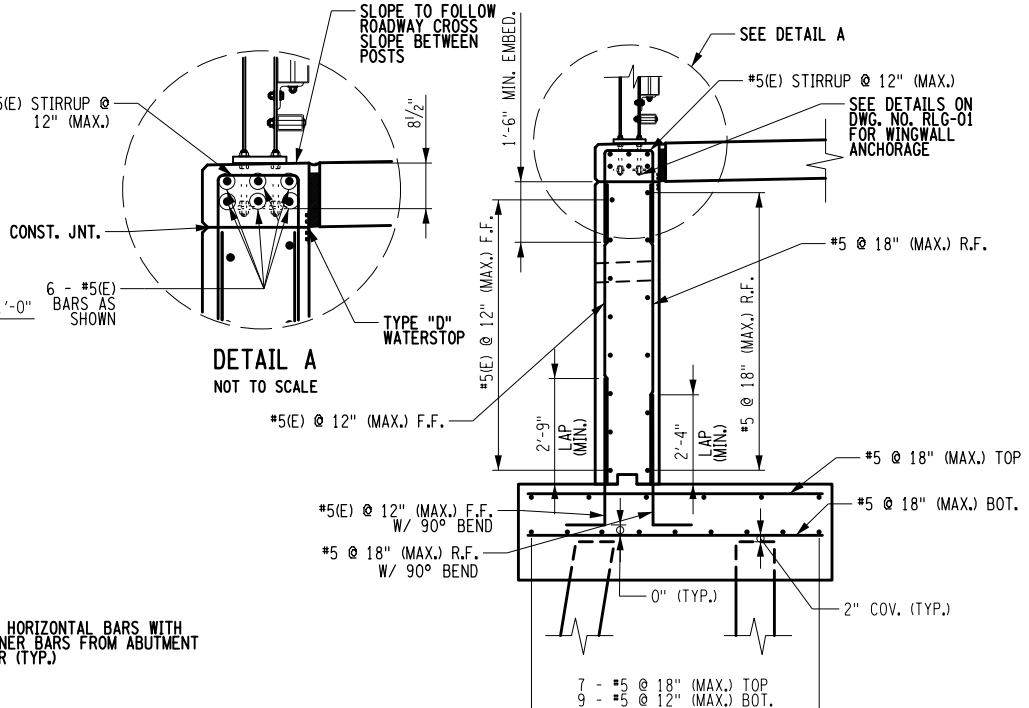
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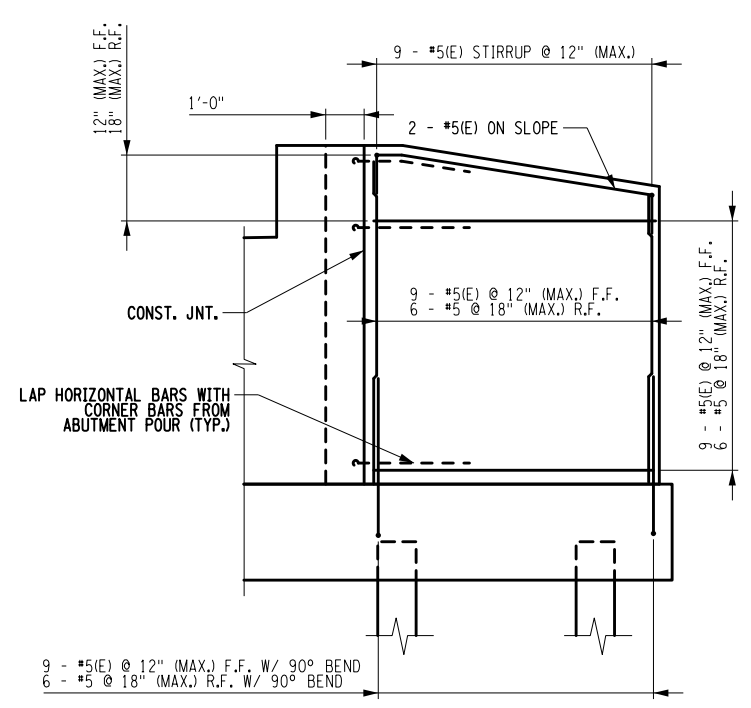
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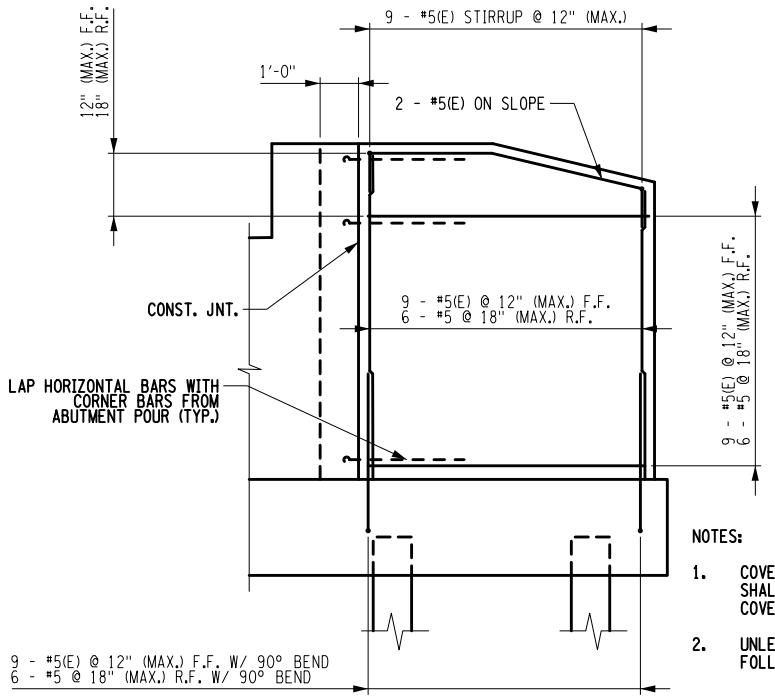
NORTHWEST WINGWALL REINFORCEMENT ELEVATION



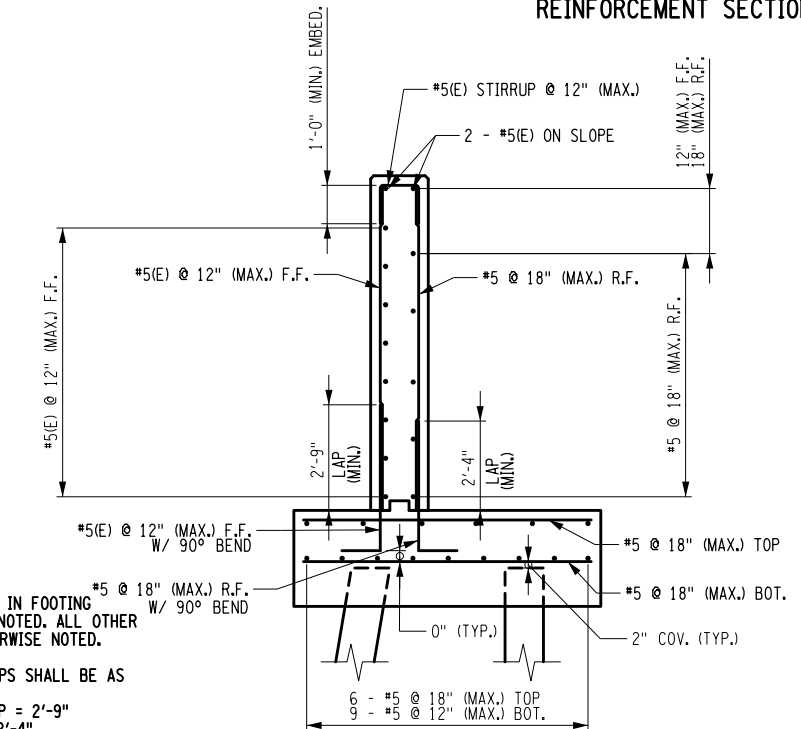
NORTHWEST WINGWALL REINFORCEMENT SECTION



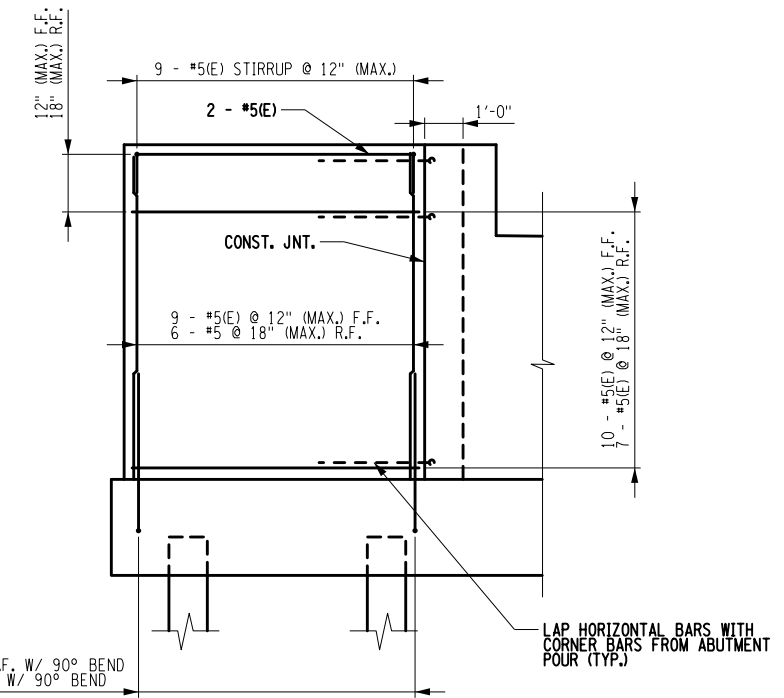
NORTHEAST WINGWALL REINFORCEMENT ELEVATION



SOUTHWEST WINGWALL REINFORCEMENT ELEVATION



NORTHEAST, SOUTHWEST AND SOUTHEAST WINGWALL REINFORCEMENT SECTION

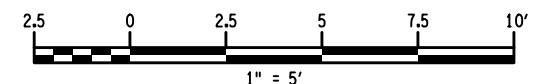


SOUTHEAST WINGWALL REINFORCEMENT ELEVATION

NOTES:

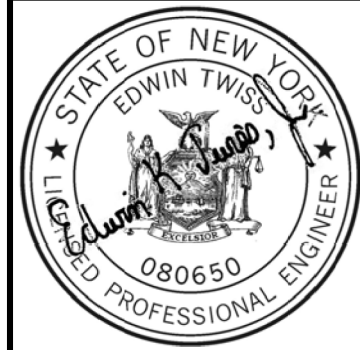
- COVER FOR STEEL REINFORCEMENT IN FOOTING SHALL BE 3" UNLESS OTHERWISE NOTED. ALL OTHER COVER SHALL BE 2" UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE NOTED ALL LAPS SHALL BE AS FOLLOWS:
 #5 EPOXY COATED BARS, LAP = 2'-9"
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- CORNER REINFORCEMENT SHALL BE INCLUDED AT ALL INSIDE AND OUTSIDE CORNERS OF ABUTMENT, WINGWALLS, AND BACKWALLS. BAR SIZE, LAP LENGTH, AND SPACING SHALL MATCH WALL WITH THE MOST HORIZONTAL BARS.

(E) - DENOTES EPOXY COATED REINFORCEMENT



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
ON: FEBRUARY 21, 2024

ALTERED BY:
ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				WINGWALL REINFORCEMENT ELEVATIONS, SECTIONS, AND DETAILS	DRAWING NO. ST-12
	COUNTY: MONTGOMERY					SHEET NO. 23

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.



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DECK PLACEMENT NOTES:

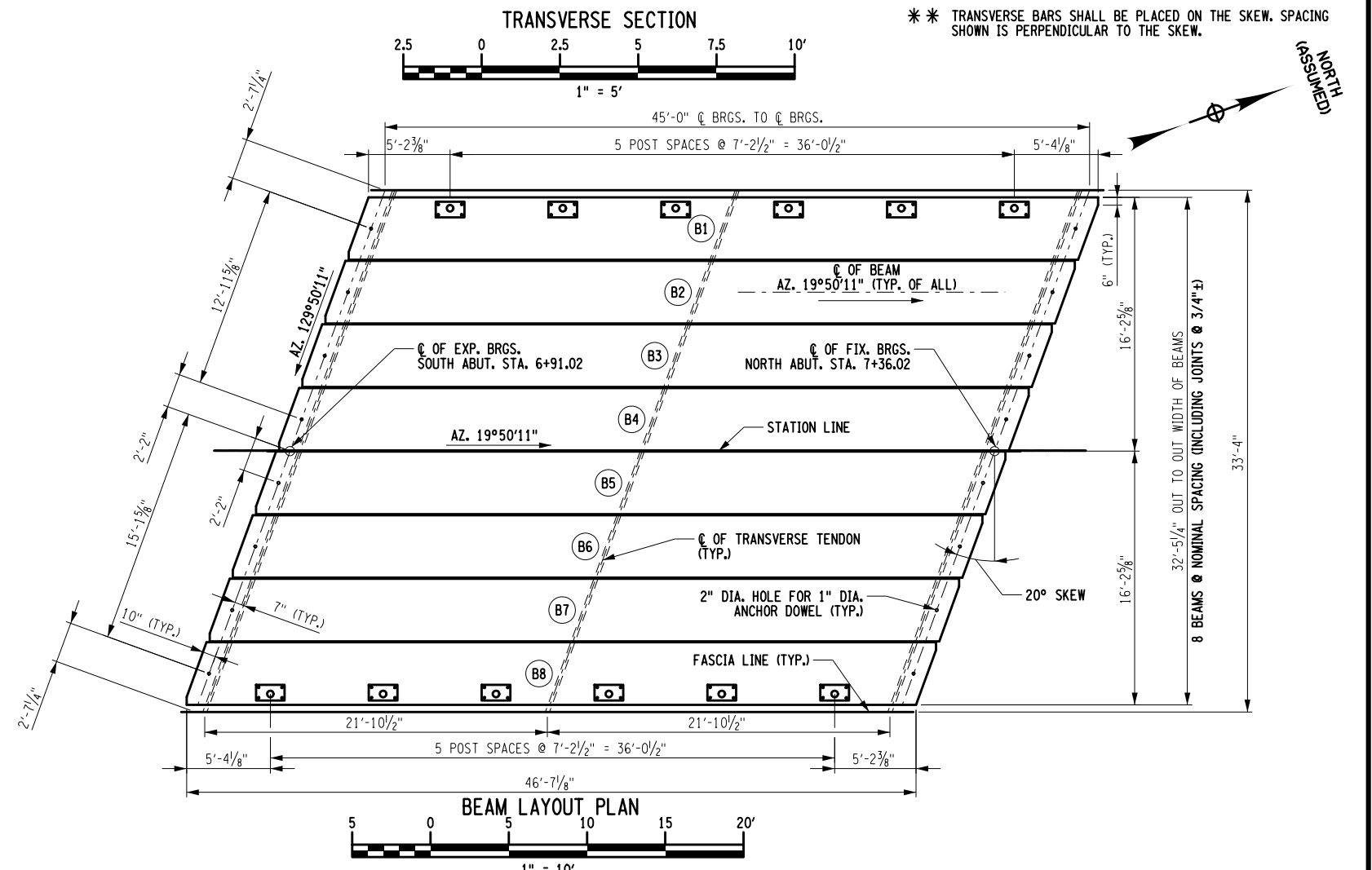
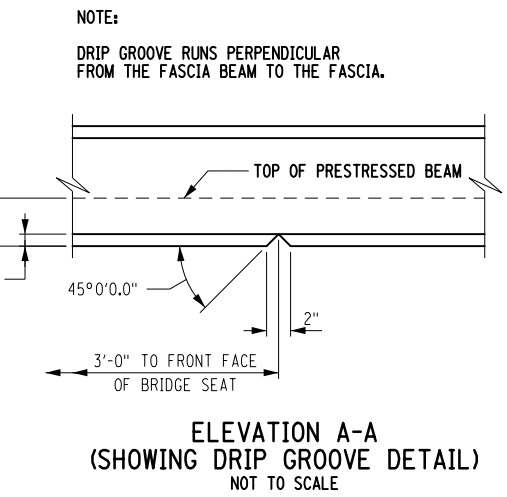
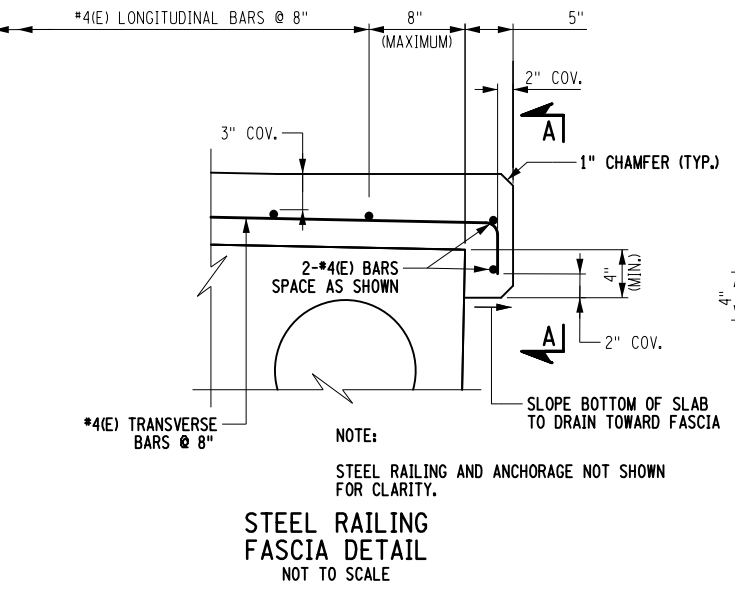
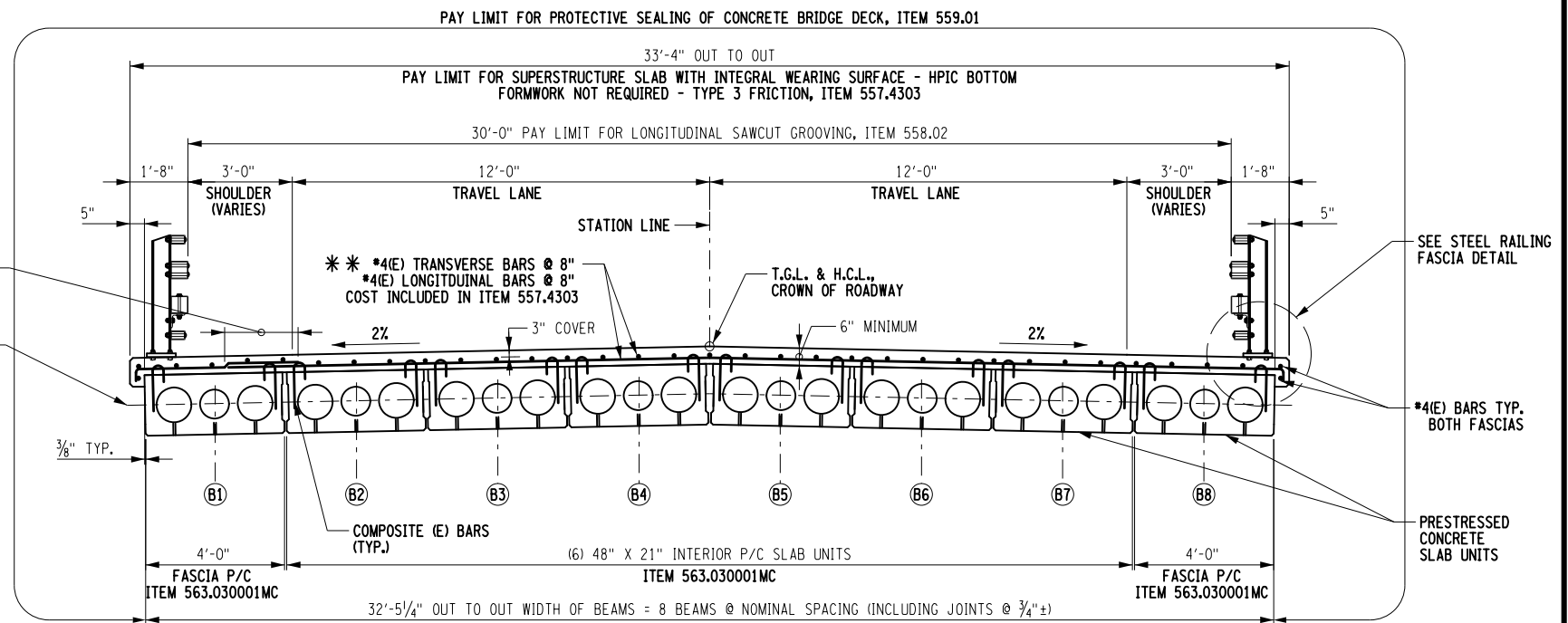
1. CONCRETE PLACEMENT AND FINISHING OPERATIONS SHALL BE PERFORMED AS RAPIDLY AS POSSIBLE. THE ENGINEER MAY DIRECT THE CONTRACTOR TO STOP PLACEMENT OPERATIONS AT ANY TIME IF, IN THE ENGINEER'S OPINION, CONCRETE PLACED DURING THE PLACEMENT HAS STARTED TO SET, OR IS ABOUT TO SET, AND FURTHER PLACEMENT OF CONCRETE WILL CAUSE DEFLECTION CRACKING.
2. LONGITUDINAL CONSTRUCTION JOINTS NOT SHOWN IN THE PLANS ARE NOT PERMITTED.
3. THE CONTRACTOR SHALL OPERATE FINISHING MACHINE(S) AS CLOSE TO THE SKEW ANGLE AS PRACTICABLE FOR SKEW ANGLES BETWEEN 0° AND 35°. WHEN THE SKEW ANGLE IS GREATER THAN 35° THE FINISHING MACHINE(S) SHALL BE OPERATED AT A MAXIMUM SKEW ANGLE OF 35°.
4. THE CONTRACTOR SHALL PLACE WET BURLAP CURING BLANKETS ON THE CONCRETE DECK WITHIN 30 MINUTES OF THE CONCRETE BEING DEPOSITED INTO THE FORMS OR 5 MINUTES AFTER FINISHING, WHICHEVER COMES FIRST. THE PLACEMENT OF THE TURF DRAG TEXTURE SHALL NOT INTERFERE WITH THESE REQUIREMENTS.
5. IF THE CONTRACTOR'S DECK PLACEMENT OPERATION IS STOPPED PRIOR TO COMPLETION, WHETHER BY THE CONTRACTOR'S DECISION OR BY DIRECTION OF THE ENGINEER, THE CONTRACTOR SHALL PROVIDE A FINISHED DECK GRADE WHICH MATCHES THE PLANNED PROFILE. ANY SUBSEQUENT REVISIONS TO DECK FORMS MADE NECESSARY BY SUCH ACTION SHALL BE AT NO COST TO THE OWNER.

NOTES:

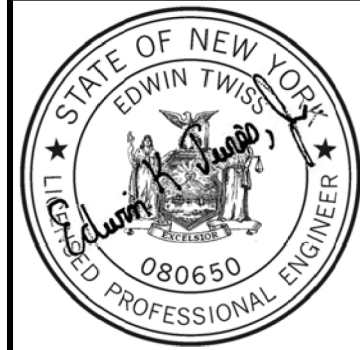
1. AFTER THE CONTRACTOR ERECTS THE PRESTRESSED BEAMS THE CONTRACTOR SHALL FURNISH TO THE ENGINEER THE TOP OF BEAM ELEVATIONS AT QUARTER POINTS FOR EACH BEAM. THE ENGINEER WILL VERIFY THAT THERE WILL BE A MINIMUM 6" THICK CONCRETE SLAB THICKNESS. NO CAMBER HAS BEEN ASSUMED. THE CONTRACTOR WILL BE ALLOWED TO ADJUST THE BRIDGE SEAT ELEVATION TO MINIMIZE THE CONCRETE DECK THICKNESS BASED ON THE DESIGN CAMBER. IF THE ACTUAL CAMBER DOES NOT MATCH THE DESIGN CAMBER THEN THE ENGINEER MAY ELECT TO MODIFY THE PROFILE. THE PRICE BID TO DO THIS WORK SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 563.030001MC. NO PAYMENT WILL BE MADE TO THE CONTRACTOR FOR ADDITIONAL CONCRETE NECESSARY FOR THE CONCRETE DECK TO MAINTAIN THE MINIMUM 6" SLAB THICKNESS.
2. REFER TO NYSDOT BRIDGE DETAIL SHEETS (PC-E) FOR PRESTRESSED CONCRETE SLAB UNIT DETAILS.
3. REFER TO "APPROACH SLAB SECTION FOR JOINTLESS PRESTRESSED SLAB UNIT SUPERSTRUCTURE" DETAIL ON DWG. NO. ST-15 FOR ADDITIONAL BARS EMBEDDED INTO PRESTRESSED UNIT.

SINGLE STAGE ADJACENT SLAB UNITS SEQUENCE OF CONSTRUCTION:

1. PLACE BEARING AS SHOWN ON THE CONTRACT PLANS.
2. PLACE THE SLAB UNITS ON THE BEARINGS
3. DRILL AND CLEAN DOWEL HOLES IN THE BRIDGE SEAT.
4. INSTALL ANCHOR DOWELS.
5. WASH SHEAR KEYS THOROUGHLY TO REMOVE ANY FOREIGN MATERIAL. INSTALL BACKER RODS IN THE SHEAR KEYS.
6. GROUT AND CURE THE SHEAR KEYS WITH AN APPROVED GROUT MATERIAL FOLLOWING MANUFACTURERS INSTRUCTIONS. ALL SHEAR KEYS SHALL BE COMPLETELY FILLED.
7. TENSION THE TRANSVERSE TENDONS TO 28 kips/STRAND NO SOONER THAN 24 HOURS AFTER BUT WITHIN 21 DAYS AFTER PLACEMENT OF GROUT IN THE LAST SHEAR KEY.
8. CLEAN AND PRE-WET THE TOP SURFACES OF THE BEAMS PRIOR TO PLACING CONCRETE FOR DECK POUR. CURE THE SLAB USING APPROPRIATE APPROVED METHODS.



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024
 ALTERED BY:
 ON:



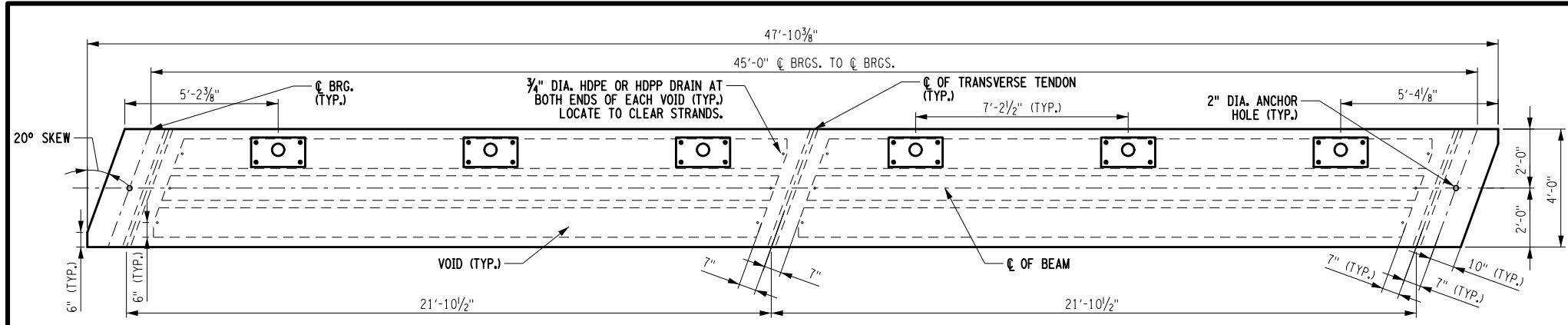
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				TRANSVERSE SECTION AND BEAM LAYOUT	DRAWING NO. ST-13
	COUNTY: MONTGOMERY					

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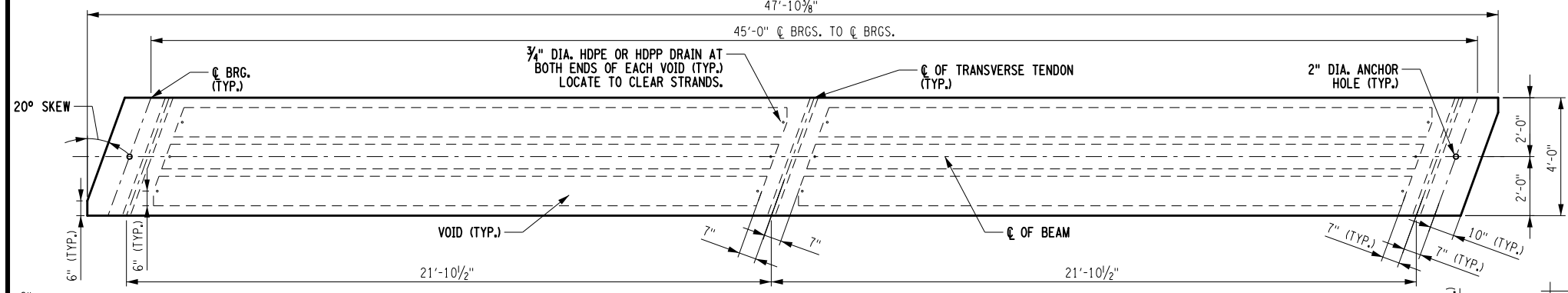


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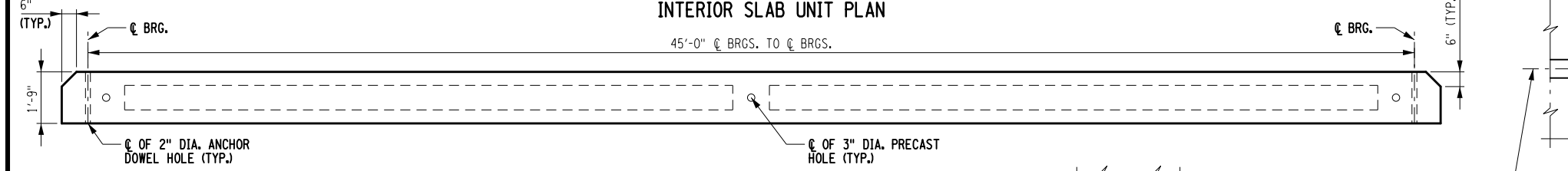
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 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT



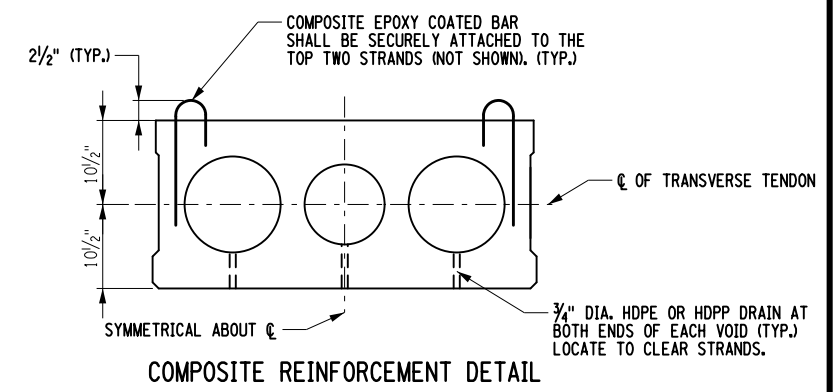
FASCIA SLAB UNIT PLAN



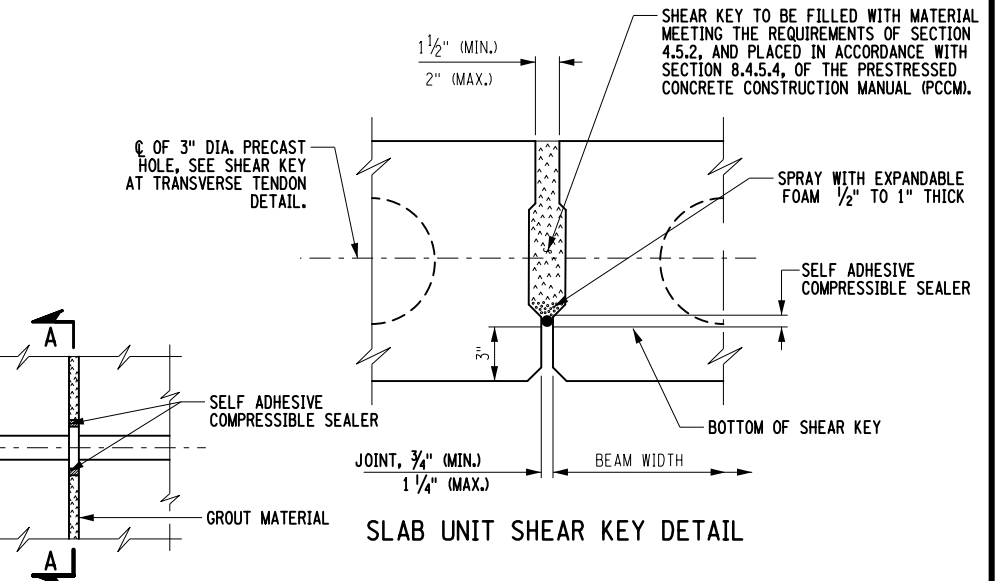
INTERIOR SLAB UNIT PLAN



SLAB UNIT ELEVATION



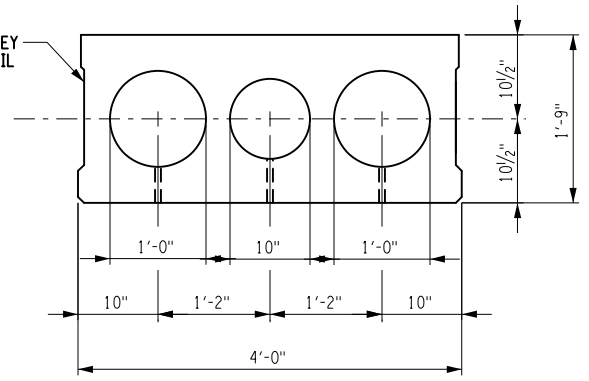
COMPOSITE REINFORCEMENT DETAIL



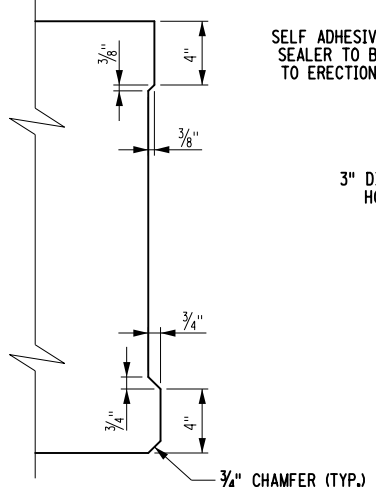
SLAB UNIT SHEAR KEY DETAIL



PLAN SHEAR KEY AT TRANSVERSE TENDON DETAIL

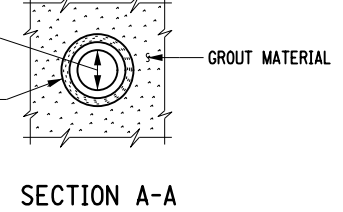


TYPICAL SECTION (INTERIOR SHOWN)

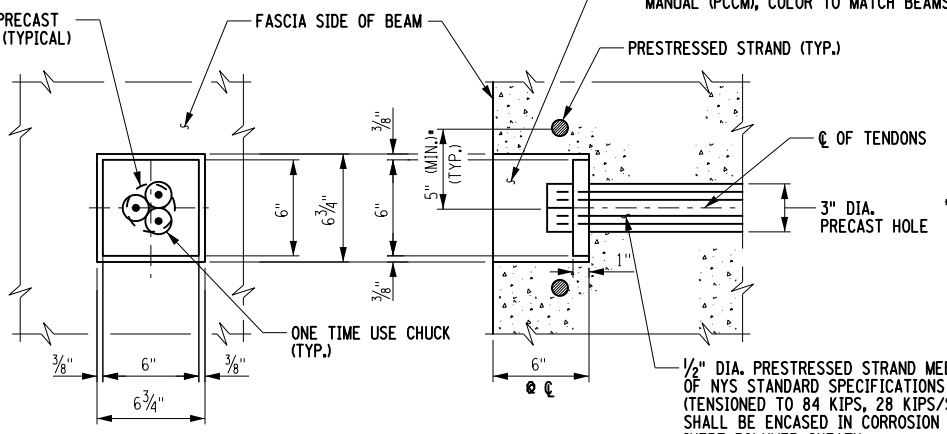


SHEAR KEY RECESS DETAIL

NOTE:
OMIT SHEAR KEY FROM OUTSIDE OF FASCIA BEAMS.

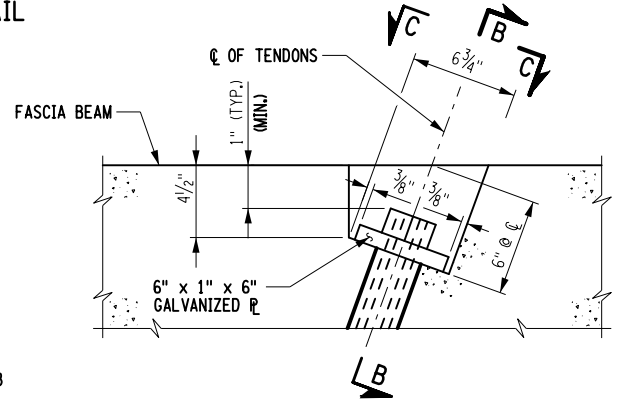


SECTION A-A



SECTION B-B

SECTION C-C

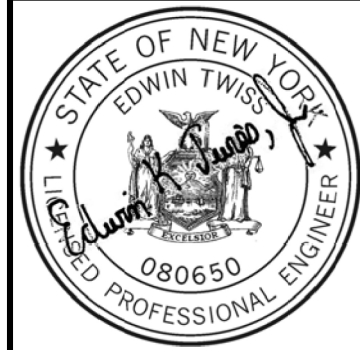


PLAN TRANSVERSE TENDON RECESS DETAIL @ 20° SKEW

* WHEN THIS IS NOT POSSIBLE WITH SLAB UNITS, MOVE THE PRESTRESSED STRANDS AWAY FROM THE OUTSIDE FASCIA OF THE BEAM TO AVOID INTERFERENCE WITH THE RECESS.

NOTES:
6" x 1" x 6" GALVANIZED (ASTM A36) PLATES SHALL BE PERPENDICULAR TO THE LONGITUDINAL AXIS OF THE TENDON IN ALL PLANES AND SHALL HAVE THREE HOLES TO ACCOMMODATE STRANDS.
NO SEALER APPLIED TO THE RECESS FOR TRANSVERSE TENDONS.
BAR REINFORCEMENT NOT SHOWN FOR CLARITY.

AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
ON: FEBRUARY 21, 2024
ALTERED BY:
ON:



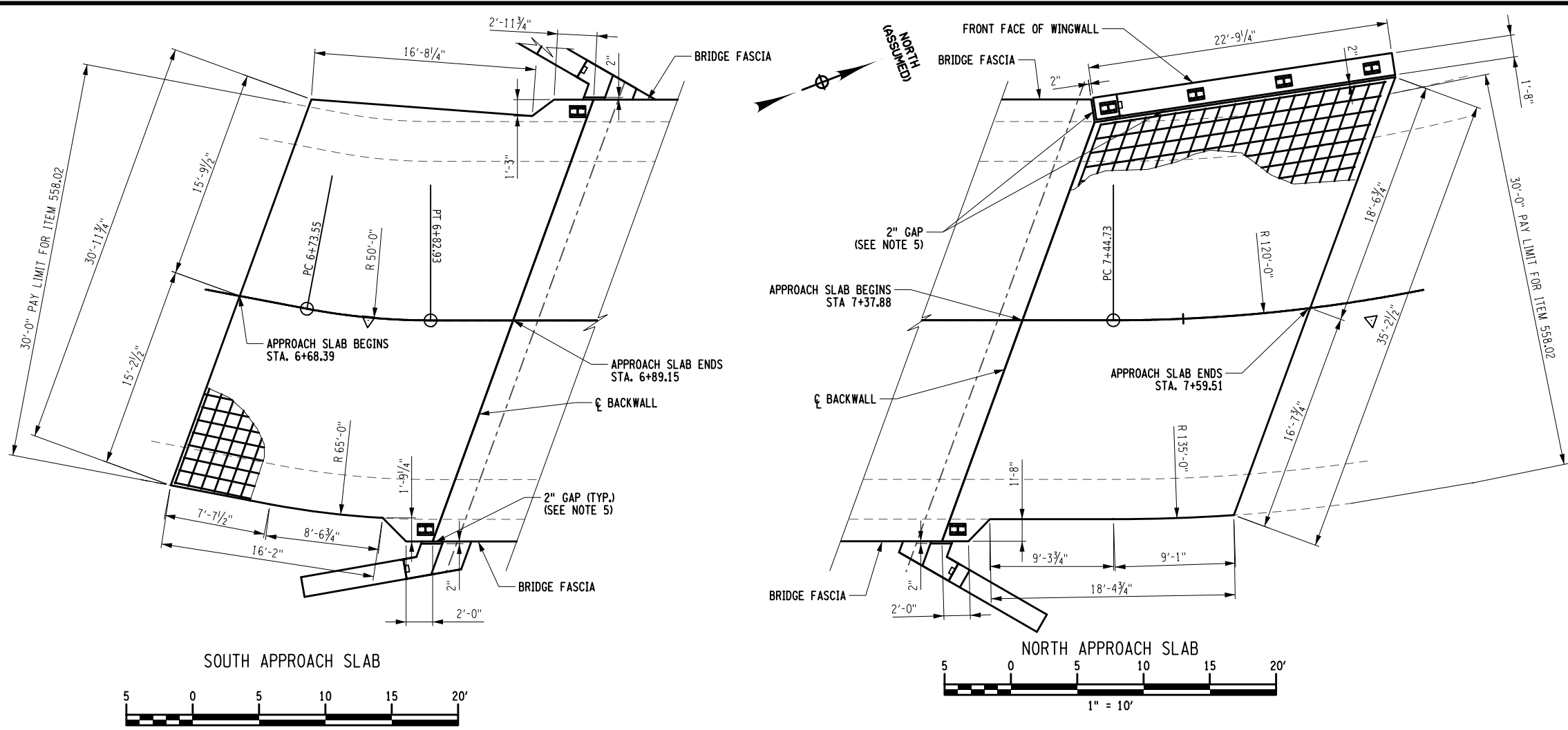
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				PRESTRESSED VOIDED SLAB UNIT DETAILS	DRAWING NO. ST-14
	COUNTY: MONTGOMERY					SHEET NO. 25

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 DATE/TIME = \$DATE\$
 USER = \$NTUSER\$
 DESIGN SUPERVISOR EKT



- NOTES:
- TO PERMIT UNHINDERED LONGITUDINAL MOVEMENT OF SLAB, THE SURFACE OF THE SUBBASE COURSE MUST BE ACCURATELY CONTROLLED TO FOLLOW AND BE PARALLEL TO THE ROADWAY GRADE AND CROSS SLOPE. POLYETHYLENE CURING COVERS (WHITE OPAQUE) IN ACCORDANCE WITH MATERIAL SPECIFICATION SUBSECTION 711-04 SHALL BE PLACED ON THE FINISHED SUBBASE COURSE THE FULL WIDTH OF THE APPROACH SLAB PRIOR TO PLACEMENT OF THE REINFORCEMENT. THE CURING COVERS SHALL BE .004 IN. THICK, AND LAPS SHALL BE 2 FT. MINIMUM.
 - TOP SURFACES OF STRUCTURAL SLABS AND APPROACH SLABS SHALL BE GROOVED UNDER THE SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE ITEM.
 - THE FULL DEPTH JOINT SHOWN IS MANDATORY. A PARTIAL DEPTH SAWCUT IS NOT PERMITTED. SEE JOINT DETAIL THIS SHEET.
 - TOP OF BACKWALL SHALL BE STEEL TROWEL FINISHED, SHEET GASKET (TREATED BOTH SIDES) MATERIAL SPECIFICATION 728-06, SHALL BE PLACED ON THE TOP OF BACKWALLS. TWO 1/16" THICK SHEETS SHALL BE USED, AND PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH ITEM.
 - THE GAP BETWEEN THE APPROACH SLAB AND THE NORTHWEST WINGWALL AND, GAP BETWEEN THE APPROACH SLAB/BRIDGE DECK AND CHEEK OF BACKWALL SHALL BE 2" FILLED WITH PREMOULDED RESILIENT JOINT FILLER CONFORMING TO MATERIAL SPECIFICATION 705-07. PAYMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB ITEM 557.2003.

APPROACH SLAB TABLE			
LOCATION	CONCRETE ITEM 557.2003	LONGITUDINAL SAWCUT GROOVING ITEM 558.02	PROTECTIVE SEALER ITEM 559.01
BEG APPROACH SLAB	72.0 SY	69.2 SY	648 SF
END APPROACH SLAB	75.5 SY	72.1 SY	679 SF

DRILL AND FILL NOTES:

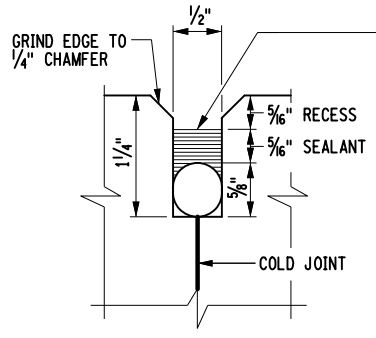
PREMOULDED RESILIENT JOINT FILLER SHALL MEET THE REQUIREMENTS OF 705-07 AND BE PAID FOR UNDER BEARING ITEM.

THE ENDS OF BEAM AND ANCHOR DOWEL HOLES SHALL BE MADE VERTICAL ± 1/4", UNDER D.L. AND GRADE. ANCHOR DOWELS TO BE PAID FOR UNDER BEARING ITEM. DOWEL HOLE FILL MATERIAL SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ELASTOMERIC BEARING ITEM AND SHALL MEET MATERIAL REQUIREMENTS AS FOLLOWS:

EXPANSION END MATERIAL SHALL MEET THE REQUIREMENTS OF N.Y.S. MAT. SPEC. 702-0700 - ASPHALT FILLER.

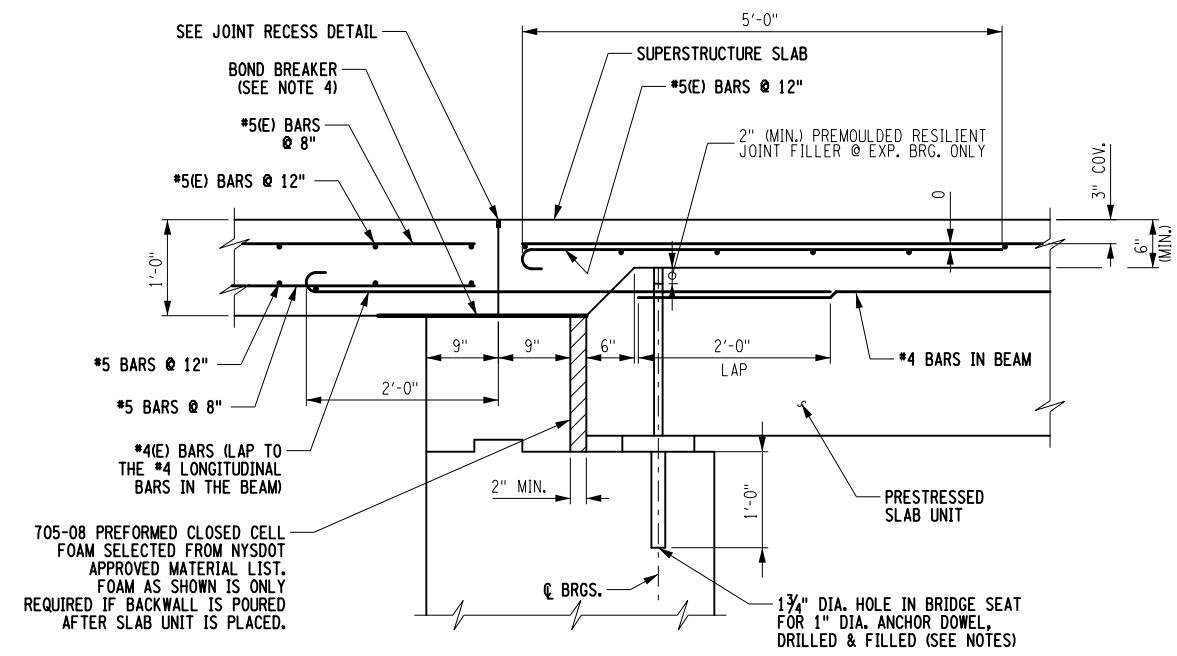
- FIXED END MATERIAL OPTIONS:
- N.Y.S. MAT. SPEC. 721-03 - EPOXY POLYSULFIDE GROUT WITH SAND**
 - N.Y.S. MAT. SPEC. 721-01 - EPOXY RESIN SYSTEM WITH SAND**
 - N.Y.S. MAT. SPEC. 701-05 - CONCRETE GROUTING MATERIAL
 - N.Y.S. MAT. SPEC. 701-06 - CEMENT BASED GROUT MATERIALS FOR SHEAR KEYS

** - MOISTURE FREE, SANDBLAST SAND SHALL BE ADDED IN THE RATIO OF (1) PART EPOXY TO (2) PARTS SAND.

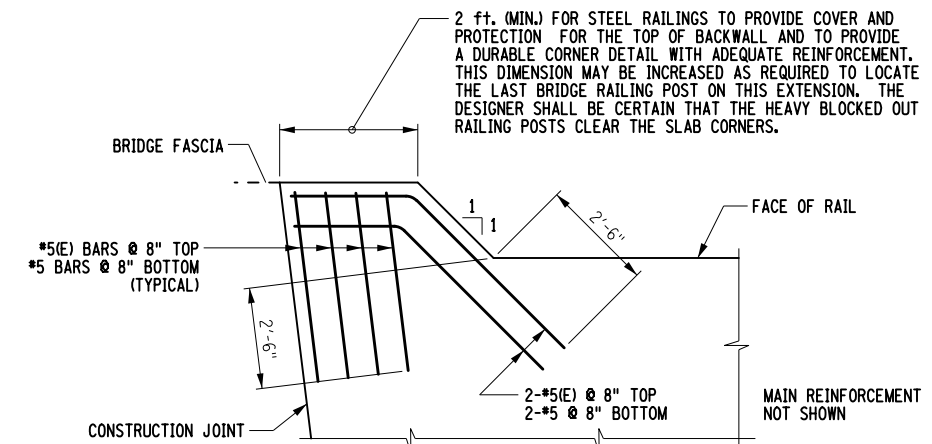


FILL THE RECESS WITH A STRUCTURAL JOINT MATERIAL, SILICONE SEALANT, FROM THE DEPARTMENT'S APPROVED LIST FOR ITEM 567.51-16. IF THE RECESS IS SAW CUT, WATER BLAST IMMEDIATELY FOLLOWING CUTTING TO REMOVE ANY RESIDUAL SLURRY BEFORE IT DRIES. CLEAN THE VERTICAL FACES OF THE RECESS BY ABRASIVE BLAST, AND AIR BLOW THE RESIDUE FROM THE RECESS. PRIME THE VERTICAL FACES WITH THE MANUFACTURER'S RECOMMENDED PRIMER, AND ALLOW TO DRY. PLACE A 5/8" DIA. SOFT CLOSED CELL BACKER ROD IN THE BOTTOM OF THE RECESS. POUR THE SILICONE SEALANT TO A DEPTH OF APPROX. 5/8". PAYMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB.

JOINT RECESS DETAIL
NOT TO SCALE



APPROACH SLAB SECTION FOR JOINTLESS PRESTRESSED SLAB UNIT SUPERSTRUCTURE



APPROACH SLAB CORNER DETAIL
JOINTLESS / INTEGRAL BRIDGE WITH SKEW ≤ 30° WITH STEEL RAILINGS (OTHER SIDE SIMILAR)

AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
ON: FEBRUARY 21, 2024

ALTERED BY:
ON:

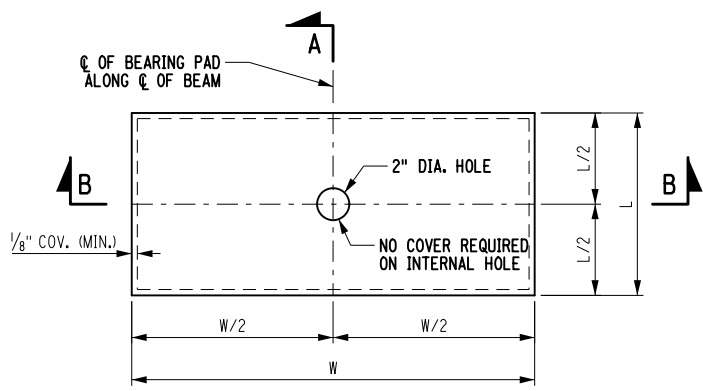


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				APPROACH SLAB DETAILS	DRAWING NO. ST-15
	COUNTY: MONTGOMERY					SHEET NO. 26

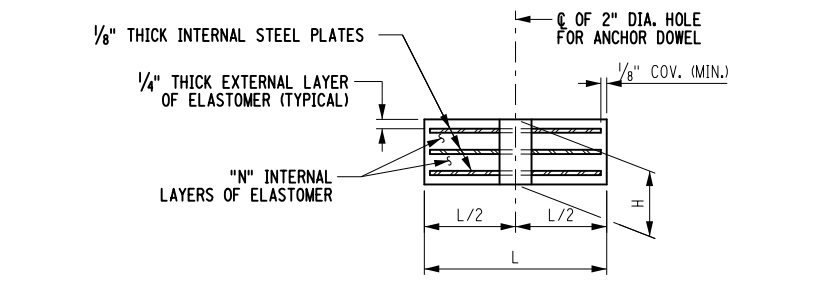
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, 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.



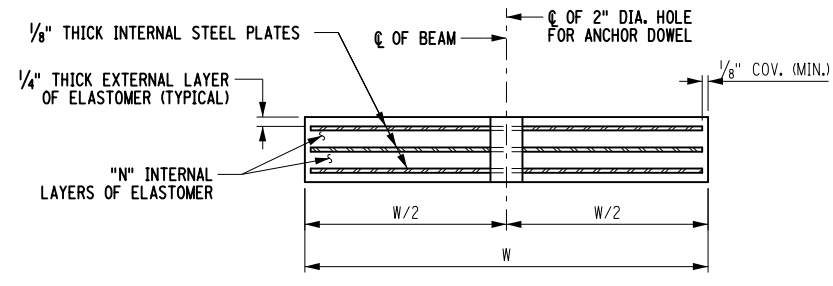
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 DRAFTING KAM / JRL
 CHECK MWO / WNG
 DESIGN JRL
 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT



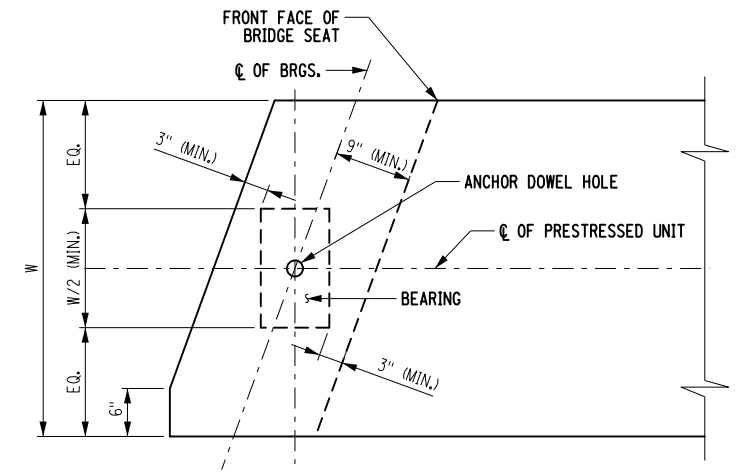
PLAN TYPICAL RECTANGULAR STEEL LAMINATED ELASTOMERIC BEARING (TYPE E.L.)



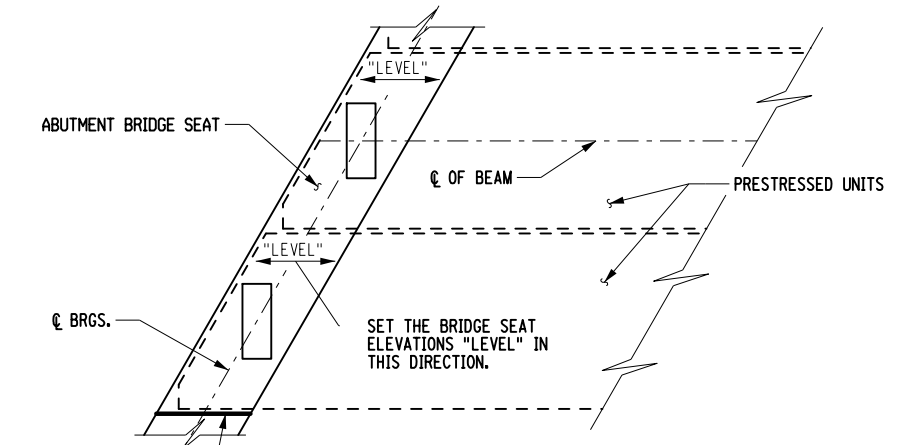
SECTION A-A



SECTION B-B



PARTIAL PLAN - SKEWED BEARING PLACEMENT DETAILS



DETAIL FOR ESTABLISHING ABUTMENT OR PIER SEAT ELEVATIONS FOR ADJACENT PRESTRESSED UNITS

NOTES:

1. THE BEARINGS SHALL MEET THE REQUIREMENTS OF N.Y.S. STANDARD SPECIFICATION SECTION 565 UNLESS OTHERWISE NOTED.
2. ELASTOMER SHALL BE 50 DUROMETER HARDNESS ON THE SHORE A SCALE.
3. INSTALLATION ALIGNMENT: THE MAXIMUM VARIATION FROM PERFECT ALIGNMENT UNDER FULL DEAD LOAD SHALL NOT EXCEED 3/16 in. THIS VARIATION SHALL BE MEASURED AS THE HORIZONTAL DISTANCE BETWEEN THE CENTERLINE OF THE HIGHEST ELASTOMER SURFACE AND THE CENTERLINE OF THE LOWEST ELASTOMER SURFACE.
4. CONCRETE SURFACES UNDER THE BEARINGS SHALL CONFORM TO SUBSECTION 565-3.02 "CONCRETE BEARING SURFACE PREPARATION" OF THE N.Y.S. STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS.
5. FOR TYPE E.L. BEARINGS: ALL EXTERNAL ELASTOMER LAYERS ARE ONE-HALF THE THICKNESS OF THE INTERNAL ELASTOMER LAYERS.

STEEL LAMINATED ELASTOMERIC BEARING (TYPE E.L.) TABLE

LOCATION	FIX/EXP.	ITEM NO.	QUANTITY REQUIRED	D.L. + S.D.L. (kips)	L.L. WITHOUT IMPACT (kips)	TOTAL DESIGN REACTION (kips)	SHAPE FACTOR	ELASTOMER LAYER				hr t	COMP. AREA (SQ. In.)	SHEAR AREA (SQ. In.)	BRG. H	ANCHOR DOWEL DIAMETER
								THK/LAYER	NO. LAYERS	L	W					
BEG	EXP.	565.1922	8	28.8	33.0	61.8	5.374	0.5	2	8	24	1.5	184.06	192.00	1.875	1
END	FIX	565.1922	8	28.8	33.0	61.8	5.374	0.5	2	8	24	1.5	184.06	192.00	1.875	1

TABLE DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
 LOADS SHOWN IN THIS TABLE ARE UNFACTORED.
 H IS TAKEN AT THE CENTERLINE OF THE BEARING.

AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024
 ALTERED BY: ON:



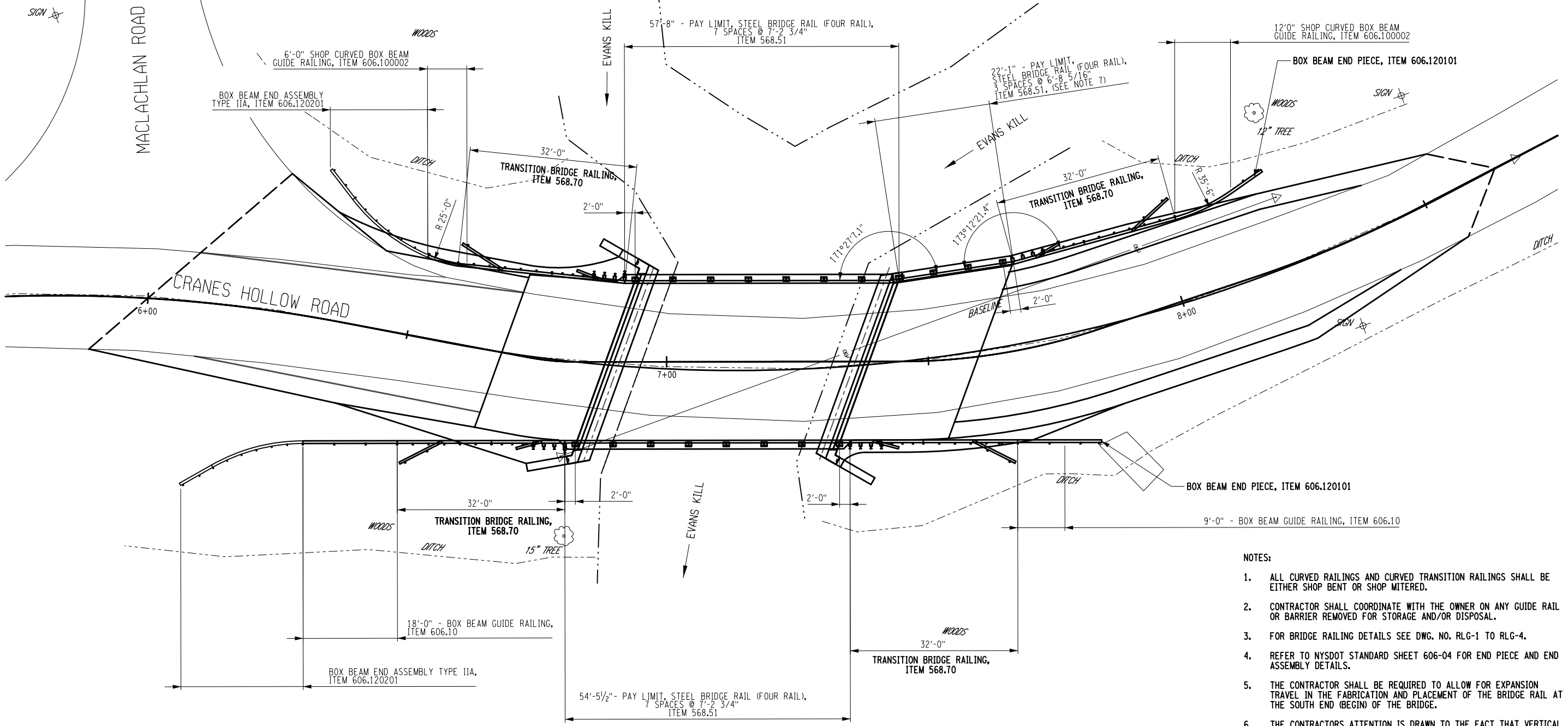
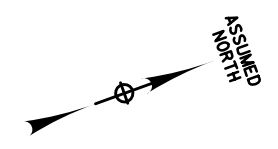
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				ELASTOMERIC BEARING DETAILS	DRAWING NO. ST-16
	COUNTY: MONTGOMERY					SHEET NO. 27

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.

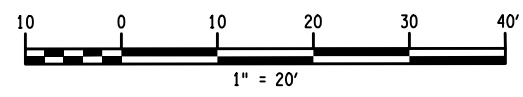


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 CHECK MWO / WNG
 DESIGN JRL
 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT



- NOTES:
1. ALL CURVED RAILINGS AND CURVED TRANSITION RAILINGS SHALL BE EITHER SHOP BENT OR SHOP MITERED.
 2. CONTRACTOR SHALL COORDINATE WITH THE OWNER ON ANY GUIDE RAIL OR BARRIER REMOVED FOR STORAGE AND/OR DISPOSAL.
 3. FOR BRIDGE RAILING DETAILS SEE DWG. NO. RLG-1 TO RLG-4.
 4. REFER TO NYSDOT STANDARD SHEET 606-04 FOR END PIECE AND END ASSEMBLY DETAILS.
 5. THE CONTRACTOR SHALL BE REQUIRED TO ALLOW FOR EXPANSION TRAVEL IN THE FABRICATION AND PLACEMENT OF THE BRIDGE RAIL AT THE SOUTH END (BEGIN) OF THE BRIDGE.
 6. THE CONTRACTORS ATTENTION IS DRAWN TO THE FACT THAT VERTICAL TRANSITIONS MAY BE NECESSARY TO MEET REQUIRED RAIL MOUNTING HEIGHTS SHOWN ON THIS SHEET AND NYSDOT'S BD SHEETS DUE TO THE EXISTING GRADE. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK IF REQUIRED. CONTOURS SHOWN ON VARIOUS SHEETS THROUGHOUT THE PLAN SET ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL DETERMINE THE NEED FOR VERTICAL RAIL TRANSITIONS AND/OR SIDE SLOPE REGRADING.
 7. STEEL BRIDGE RAIL IN THE NORTHWEST QUADRANT TO BE MOUNTED TO U-WALL USING AN ANCHOR PLATE. SEE DETAILS ON DWG. NO. ST-12 FOR ADDITIONAL INFORMATION.



AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024

ALTERED BY:
 ON:



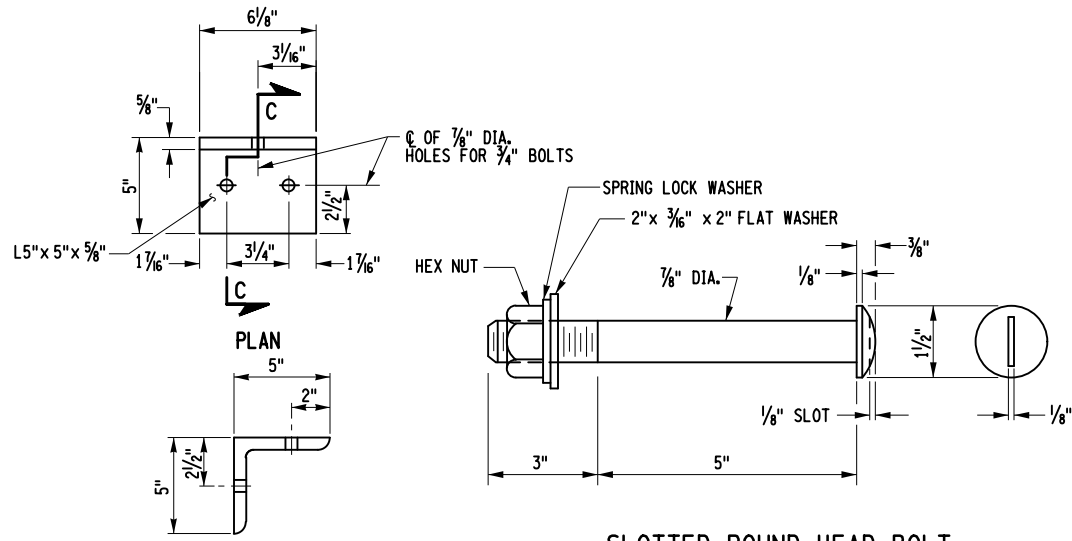
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	TOWN OF AMSTERDAM				RAILING LAYOUT PLAN	DRAWING NO. ST-17
						SHEET NO. 28

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.



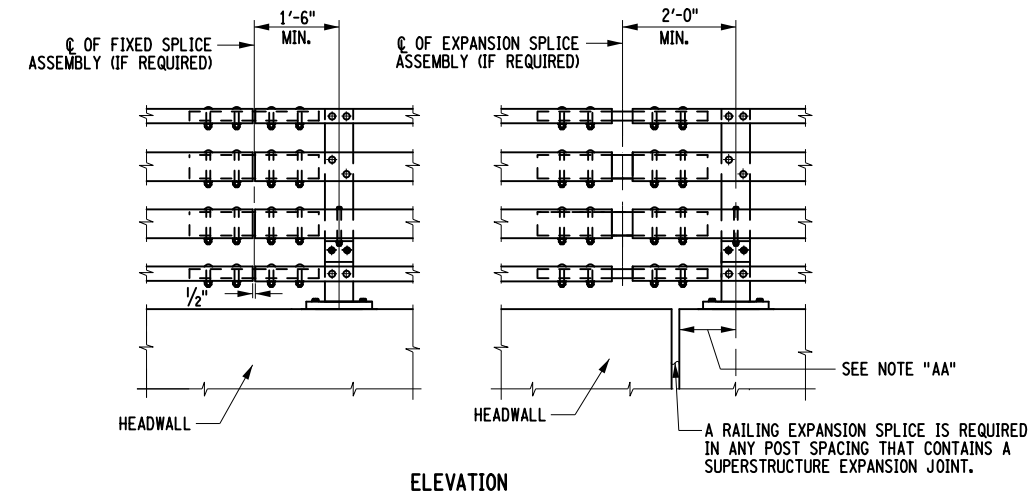
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 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT



SECTION C-C
RAILING ANGLE DETAILS

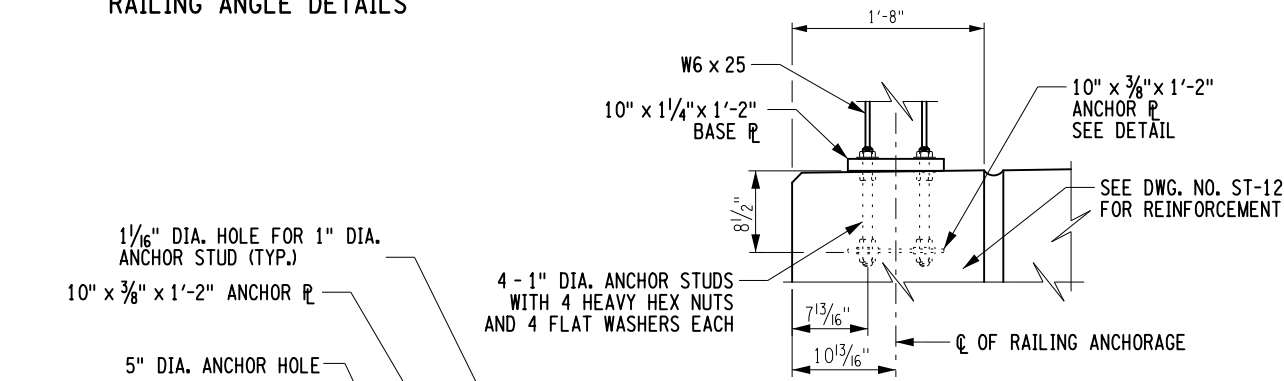
SLOTTED ROUND HEAD BOLT



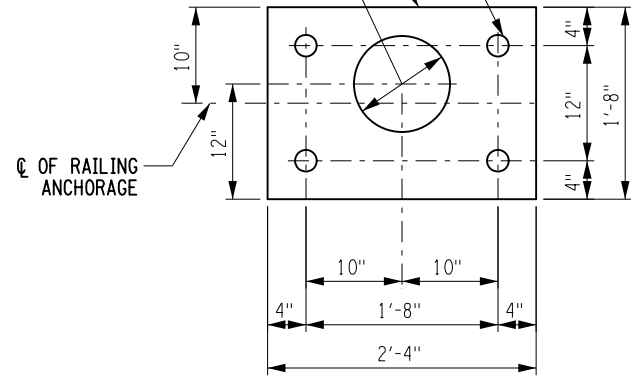
STEEL BRIDGE RAILING SPLICE DETAIL
(FOUR-RAIL) - CURBLESS

BRIDGE RAILING NOTES:
 ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 568 OF THE STANDARD SPECIFICATIONS.
 PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/16".
 BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 ft-lb.).

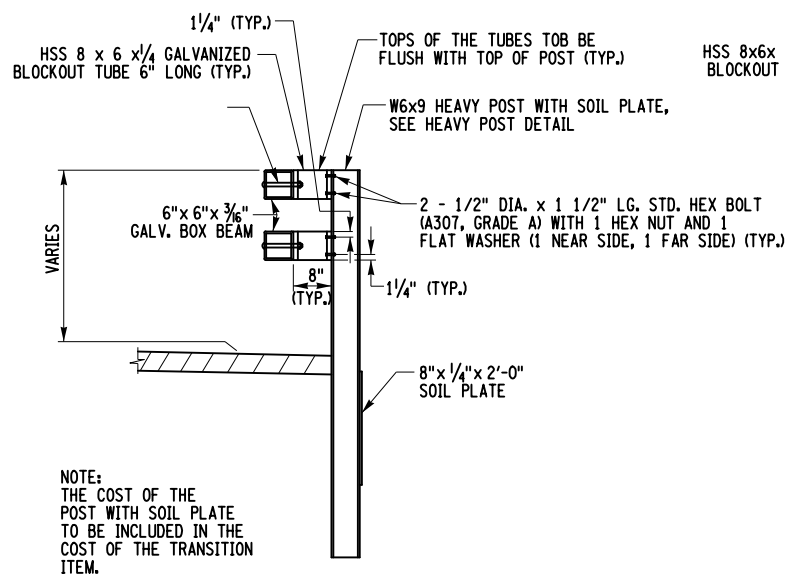
NOTES:
 NOTE "AA": THE MINIMUM DISTANCE FROM THE POST TO AN EXPANSION JOINT SHALL BE DETERMINED BY THE MINIMUM EDGE DISTANCE OF 5" FROM ANY ANCHOR STUD TO THE END OF THE SLAB, OR TO THE EXPANSION JOINT RECESS POUR, IF ONE IS USED. ON PRESTRESSED CONCRETE BRIDGES, THE POST SHALL BE LOCATED TO MINIMIZE ANCHOR PLATE/END BLOCK REINFORCEMENT CONFLICTS. POST SPACING SHALL BE ADJUSTED ACCORDINGLY.
 NOTE "E": HOLES IN THE POST FOR THE LOWER RAIL MAY BE LOCATED AND DRILLED IN THE FIELD, IF SO, THE GALVANIZING SHALL BE REPAIRED IN ACCORDANCE WITH SUBSECTION 719-01.



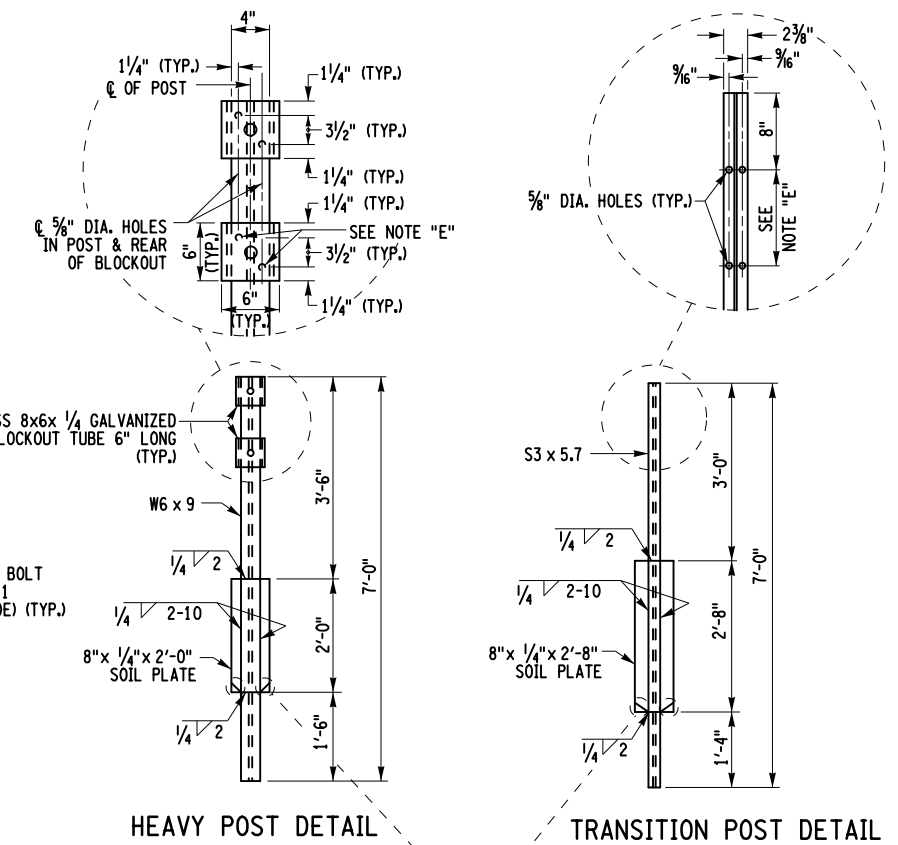
WINGWALL RAILING ANCHOR DETAIL



ANCHOR PLATE DETAIL



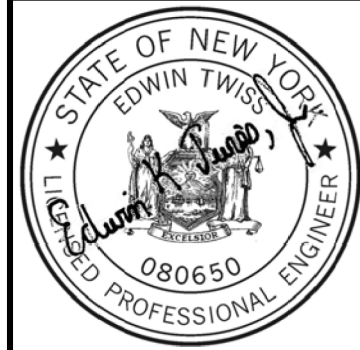
HEAVY POST ELEVATION



HEAVY POST DETAIL

TRANSITION POST DETAIL

AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024
 ALTERED BY:
 ON:



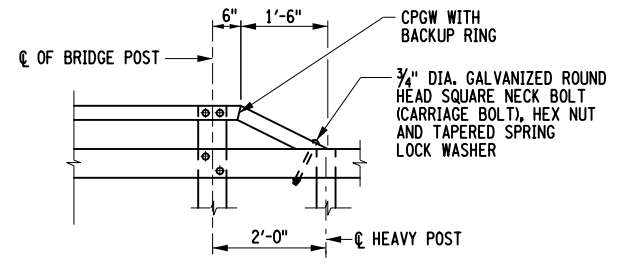
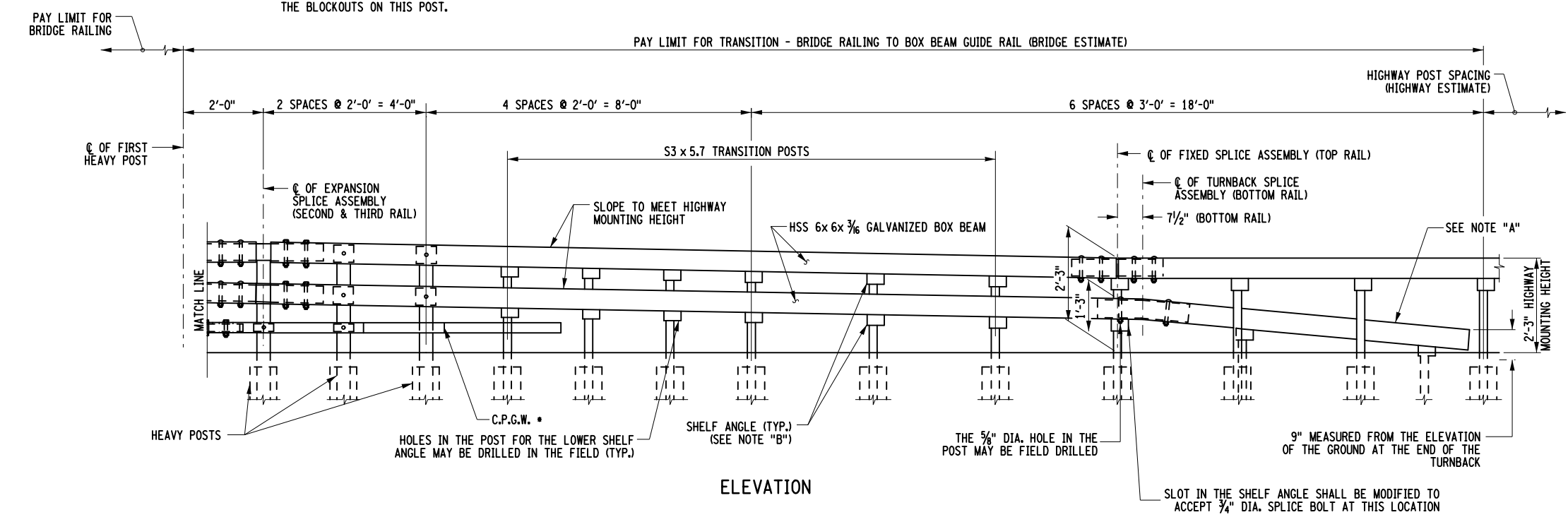
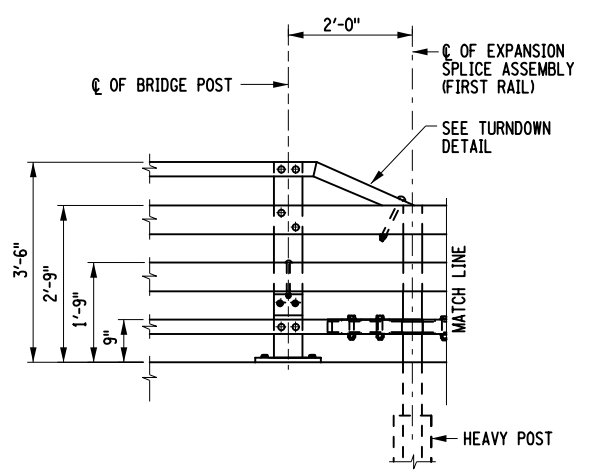
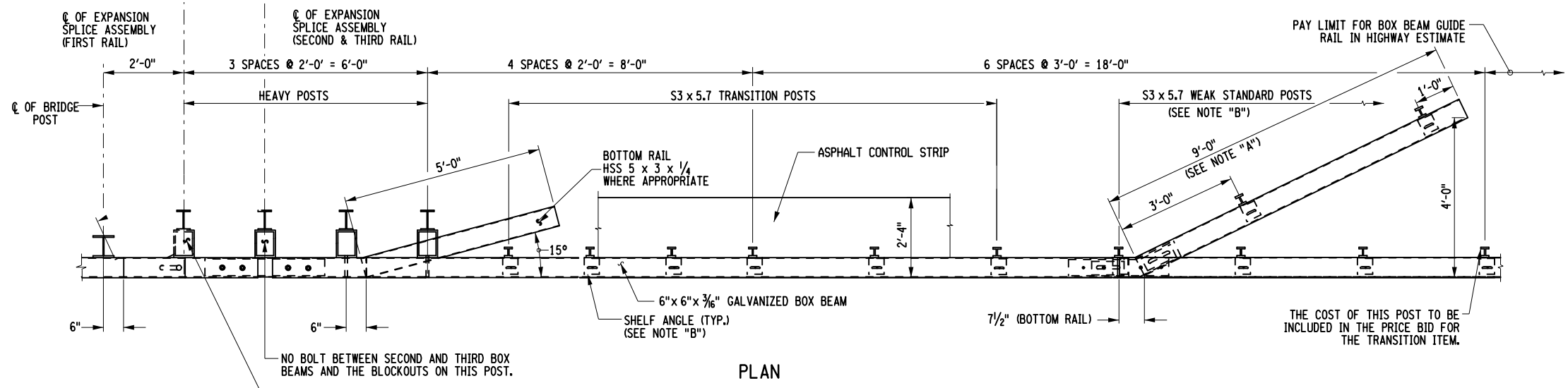
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				BRIDGE RAIL DETAILS (1 OF 4)	DRAWING NO. RLG-1
	COUNTY: MONTGOMERY					SHEET NO. 29

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.



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 DESIGN JRL
 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT



NOTES:

NOTE "A": THE COST OF THE POSTS, SPLICE TUBE AND RAIL FOR THE TURNBACK IS INCLUDED IN THE PRICE BID FOR THE TRANSITION ITEM.

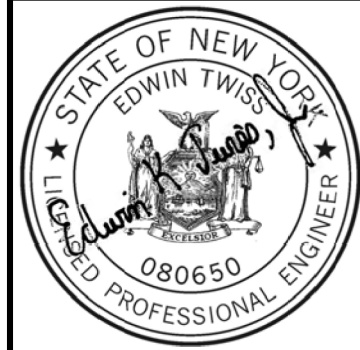
NOTE "B": SEE TYPICAL RAIL TO POST CONNECTION DETAIL ON CURRENT HIGHWAY STANDARD SHEET TITLED "BOX BEAM GUIDE RAIL".

*C.P.G.W. = COMPLETE PENETRATION GROOVE WELD.

ANY MODIFICATION IN THE FIELD THAT DAMAGES GALVANIZATION SHALL BE REPAIRED IN ACCORDANCE WITH SUBSECTION 719-01 OF THE NYS STANDARD SPECIFICATIONS.

AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024

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 ON:



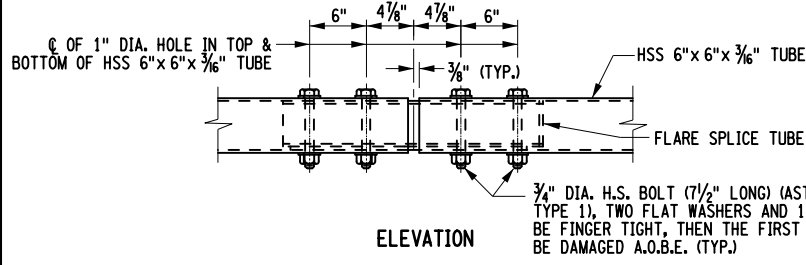
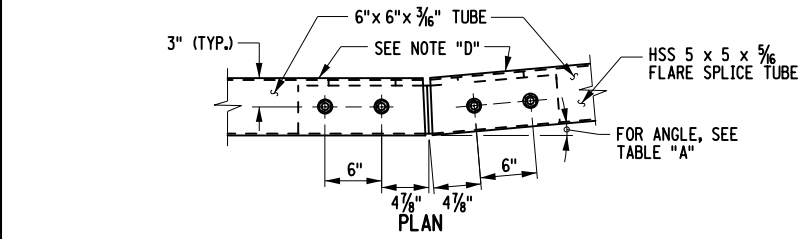
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				BRIDGE RAIL DETAILS (2 OF 4)	DRAWING NO. RLG-2 SHEET NO. 30
COUNTY: MONTGOMERY						

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.

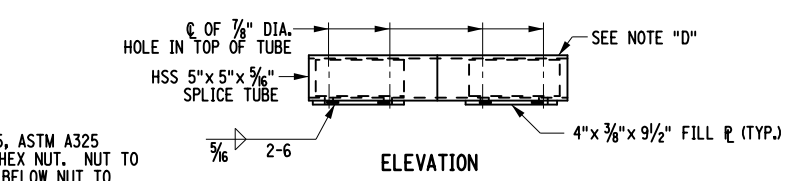
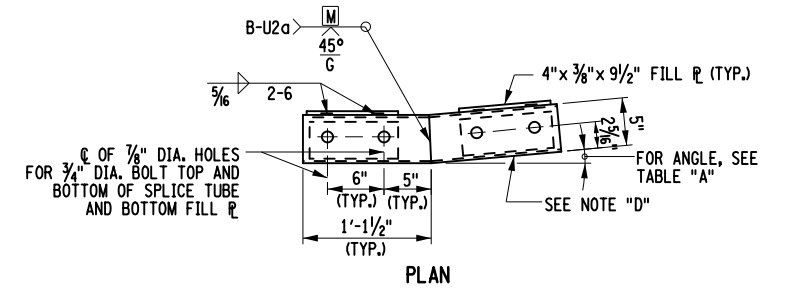


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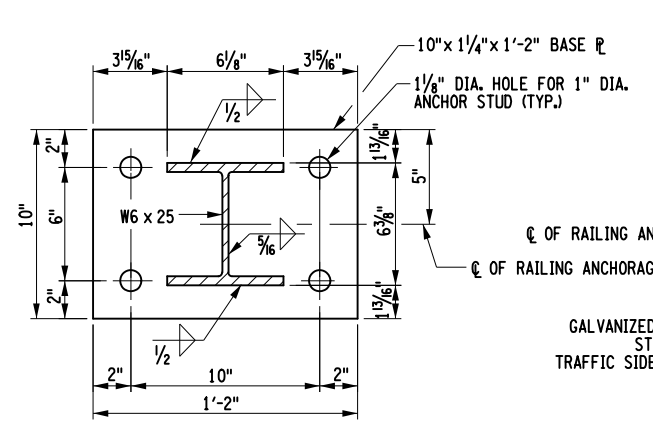
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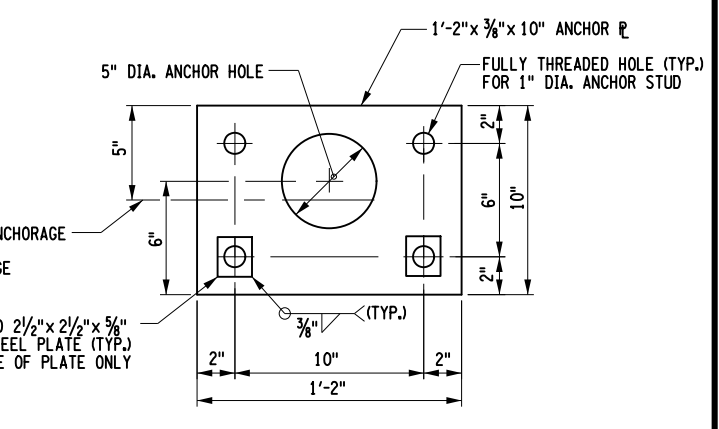
FLARE SPICE ASSEMBLY



FLARE SPICE TUBE DETAIL

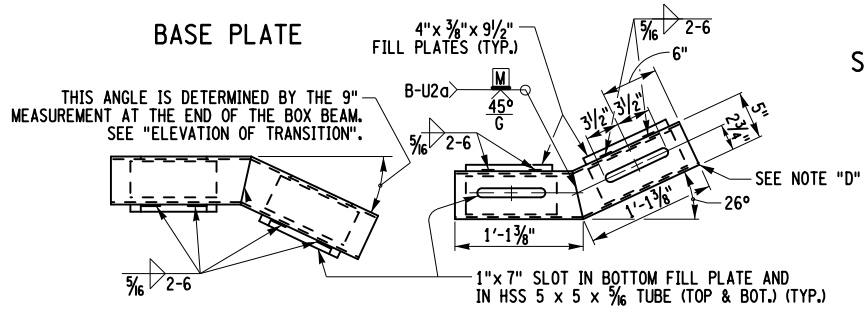


BASE PLATE



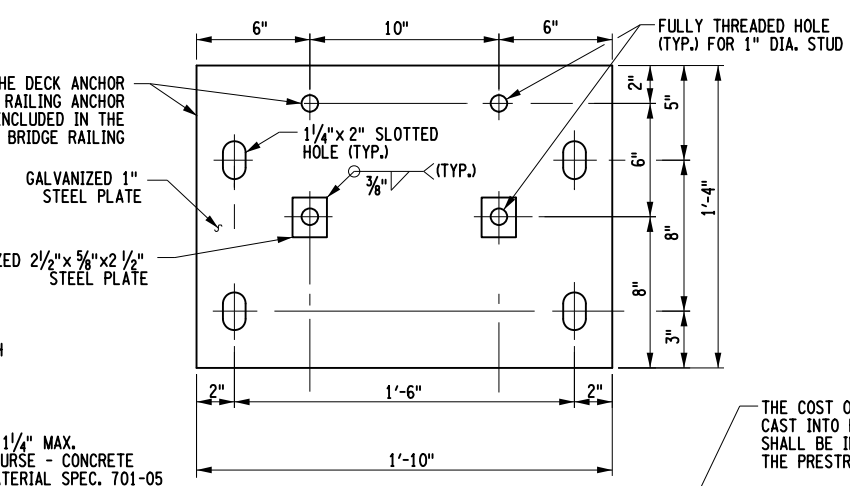
APPROACH SLAB SPECIAL ANCHOR PLATE

- NOTES:
1. A MINIMUM COVER DISTANCE OF 31/2" IS REQUIRED FOR ANY SPECIAL ANCHOR PLATE STUD.
 2. SPECIAL ANCHOR PLATE SHALL BE PLACED BETWEEN APPROACH SLAB REINFORCING MATS, 2" COVER ABOVE THE LOWER MAT.



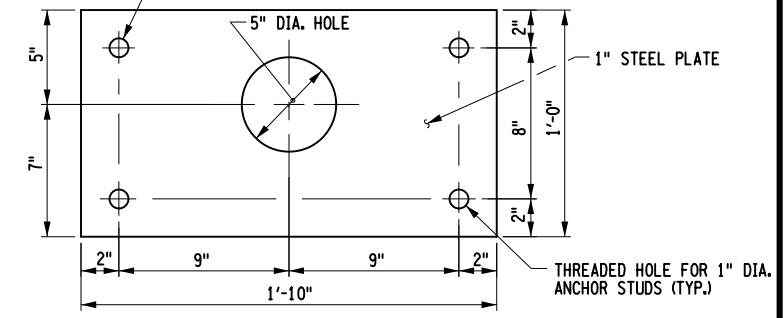
SPLICE TUBE DETAIL FOR TURN BACK

THE COST OF THE DECK ANCHOR PLATE AND THE RAILING ANCHOR STUDS SHALL BE INCLUDED IN THE PRICE BID FOR THE BRIDGE RAILING

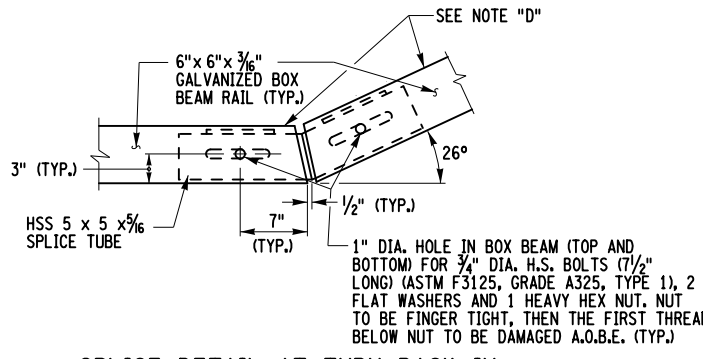


DECK ANCHOR PLATE

THE COST OF ANCHOR PLATE AND (4) 1\"/>



PRESTRESSED UNIT ANCHOR PLATE

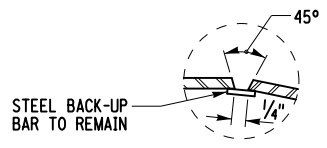


SPLICE DETAIL AT TURN BACK IN LOWER TRANSITION GUIDE RAIL

NOTE A:
ANCHOR RODS SHALL BE GROUTED INTO 1 1/2" 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.

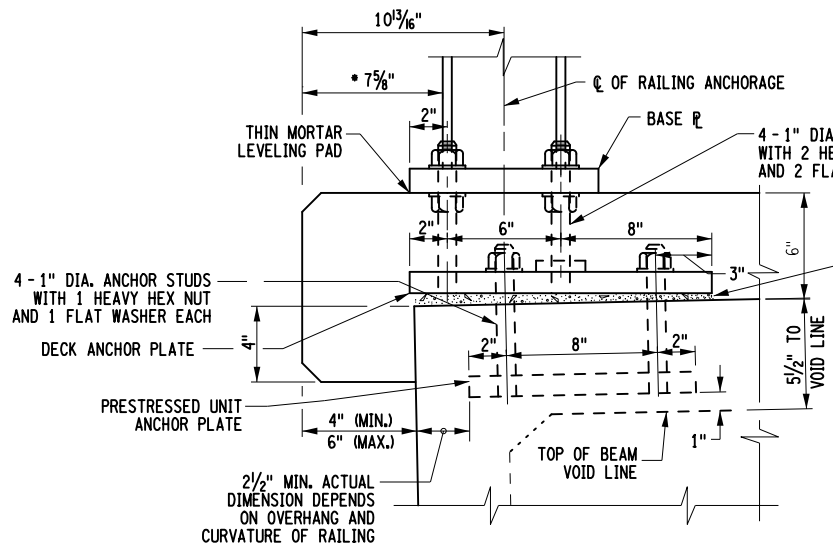
NOTE "D"
PROTRUSIONS CAUSED BY WELDING OR GALVANIZING ARE NOT PERMITTED ON THE ADJOINING SURFACES OF THE BOX BEAM RAILS, SPLICE TUBES AND FILL PLATES.

NOTES:
ALL COVER SHALL BE 2" UNLESS OTHERWISE NOTED.
DETAILS ON THE DRAWINGS LABELED "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.



WELD DETAIL FOR SPLICE TUBE

TABLE A	
DESIGN SPEED (MPH)	ANGLE
60	3.4°
50	4.0°
40 AND UNDER	5.2°



STEEL BRIDGE RAILING ANCHORAGE FOR PRESTRESSED CONCRETE BRIDGE

AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
ON: FEBRUARY 21, 2024



ALTERED BY:
ON:

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320
PIN N/A
TOWN OF AMSTERDAM
COUNTY: MONTGOMERY

BRIDGES 3310320
CULVERTS

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED
BRIDGE RAIL DETAILS (3 OF 4)

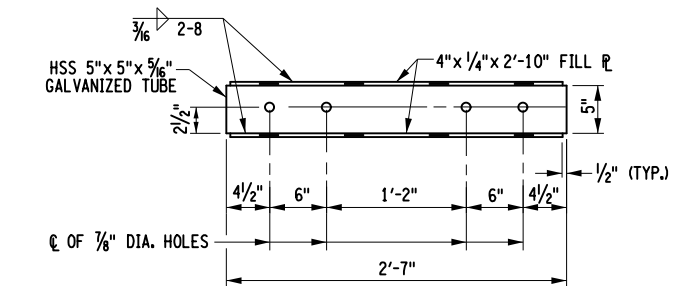
CONTRACT NUMBER RFP 04-24
DRAWING NO. RLG-3
SHEET NO. 31

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.

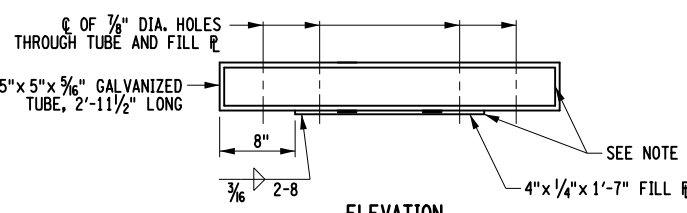


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 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT

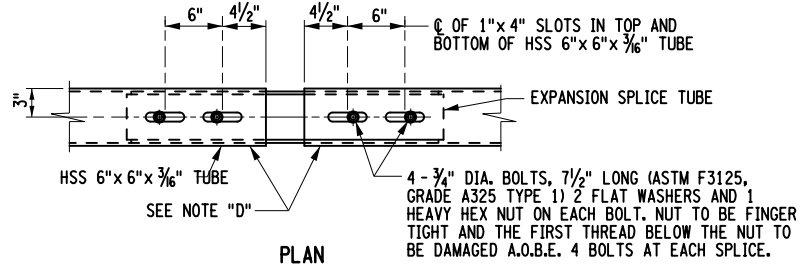


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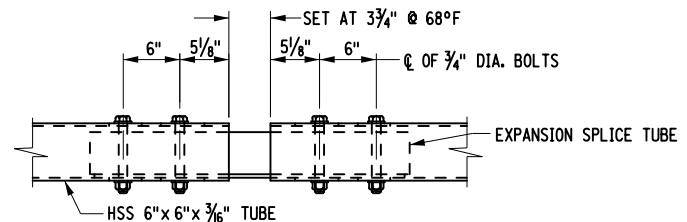


ELEVATION

EXPANSION SPLICE TUBE



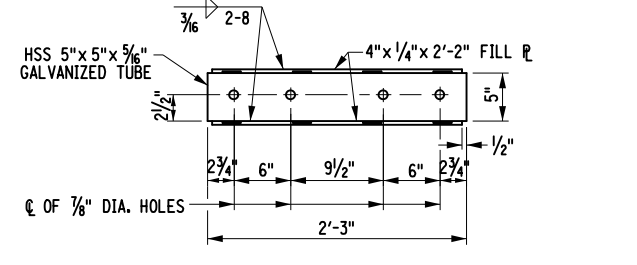
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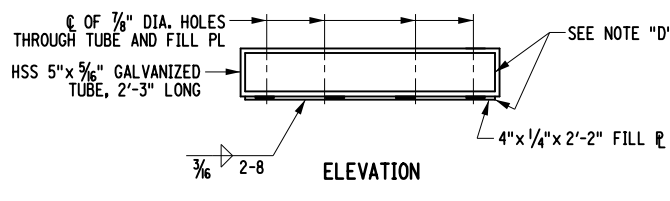
ELEVATION

EXPANSION SPLICE ASSEMBLY

NOTE: THE 5/8" DIMENSION IS SET AT 68°F.

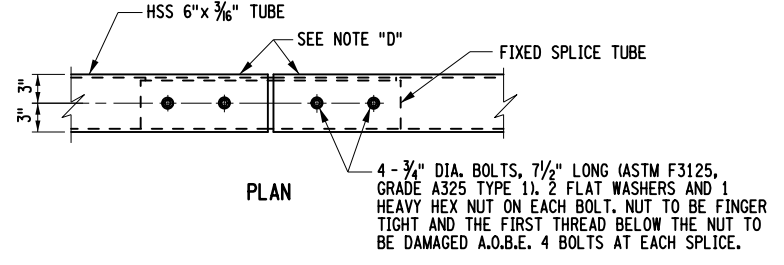


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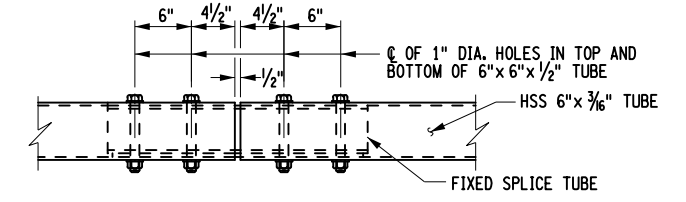


ELEVATION

FIXED SPLICE TUBE

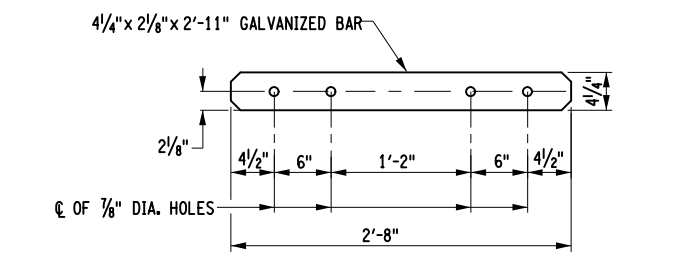


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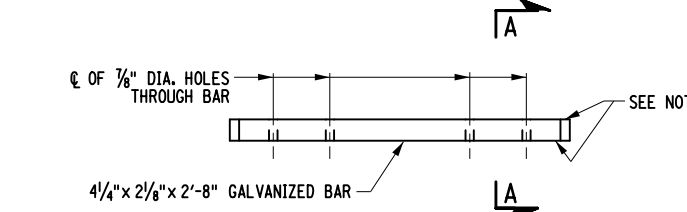


ELEVATION

FIXED SPLICE ASSEMBLY

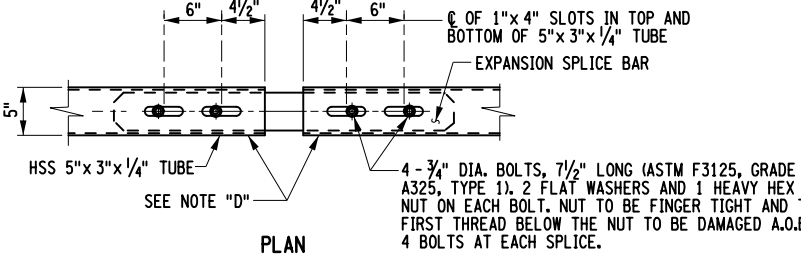


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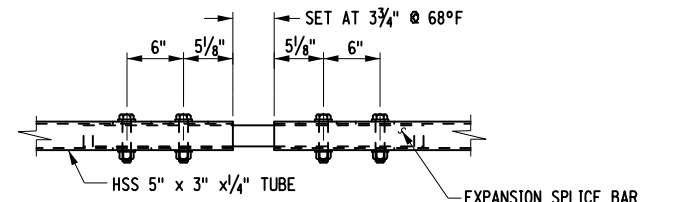


ELEVATION

EXPANSION SPLICE BAR



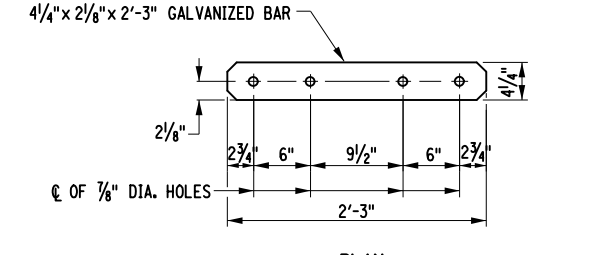
PLAN



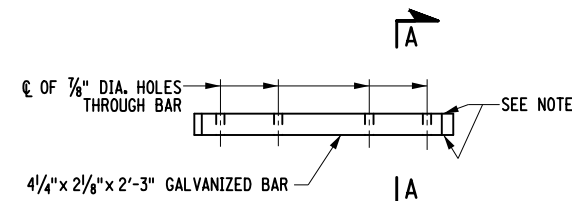
ELEVATION

EXPANSION SPLICE ASSEMBLY

NOTE: THE 5/8" DIMENSION IS SET AT 68°F.

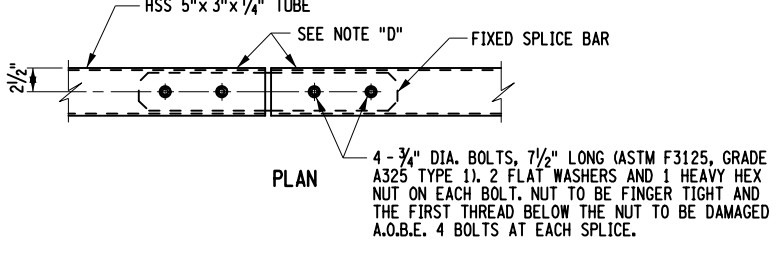


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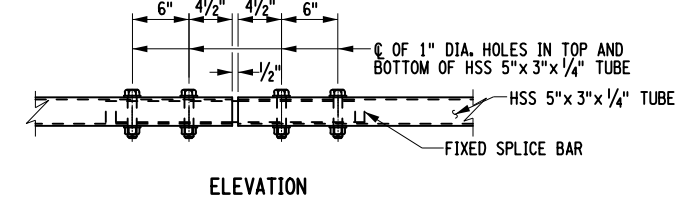


ELEVATION

FIXED SPLICE BAR



PLAN

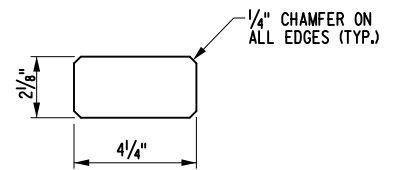


ELEVATION

FIXED SPLICE ASSEMBLY

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

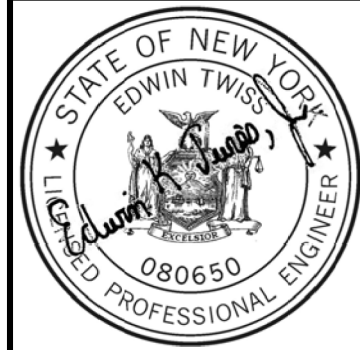
DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.



SECTION A-A

AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024

ALTERED BY:
 ON:



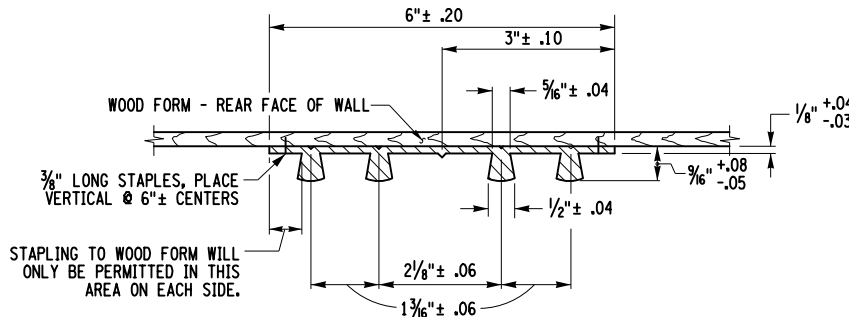
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				BRIDGE RAIL DETAILS (4 OF 4)	DRAWING NO. RLG-4
	COUNTY: MONTGOMERY					SHEET NO. 32

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.



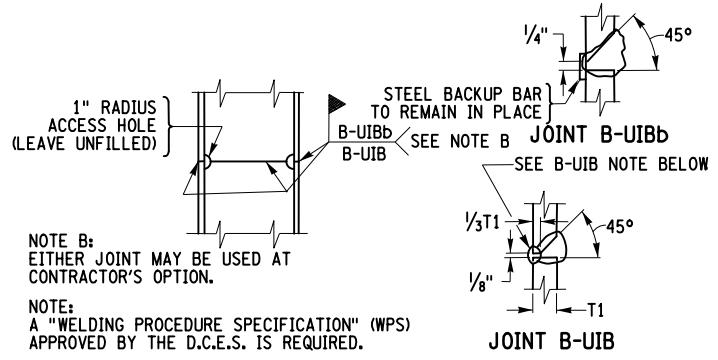
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 DRAFTING KAM / JRL
 CHECK MWO / WNG
 DESIGN JRL
 JOB MANAGER EKT
 DESIGN SUPERVISOR EKT

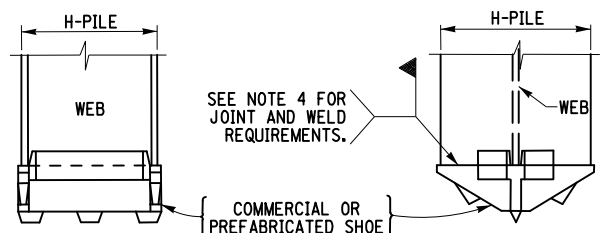


TYPE D WATERSTOP
NOT TO SCALE

NOTES:
 HOLES MUST NOT BE MADE IN WATERSTOP FOR ANY PURPOSE EXCEPT AS REQUIRED FOR STAPLING TO FORMS.
 TYPE D WATERSTOP SHALL BE LIGHT GRAY IN COLOR.

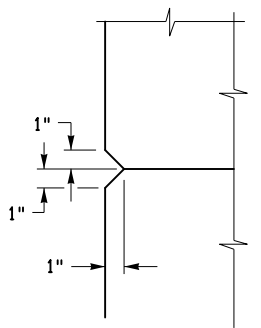


SPLICE FOR STEEL BEARING PILE
NOT TO SCALE



STEEL BEARING PILE SHOES
NOT TO SCALE

NOTES:
 PVC USED IN WATERSTOPS SHALL CONFORM TO THE REQUIREMENTS OF N.Y.S. STANDARD SPECIFICATIONS SUBSECTION 705-11.
 THE COST OF FURNISHING AND PLACING WATERSTOPS SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE CONCRETE ITEMS.
 FIELD SPLICES SHOULD BE AVOIDED IF POSSIBLE, HOWEVER, HEAT WELDED BUTT SPLICES WILL BE PERMITTED ON LONG STRAIGHT RUNS (GENERALLY IN EXCESS OF 50 FEET) AT POINTS APPROVED BY THE ENGINEER.
 WATERSTOP SHALL BE SHIPPED IN STRAIGHT SECTIONS HAVING A MINIMUM LENGTH OF 10 FEET UNLESS SHORTER LENGTHS ARE REQUIRED.
 PREMOULDED RESILIENT JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF N.Y.S. STANDARD SPECIFICATION SUBSECTION 705-07.
 DETAILS ON THE DRAWINGS LABELED AS "NOT TO SCALE" ARE INTENTIONALLY DRAWN NOT TO SCALE FOR VISUAL CLARITY. ALL OTHER DETAILS, FOR WHICH NO SCALE IS SHOWN, ARE DRAWN PROPORTIONAL AND ARE FULLY DIMENSIONED.

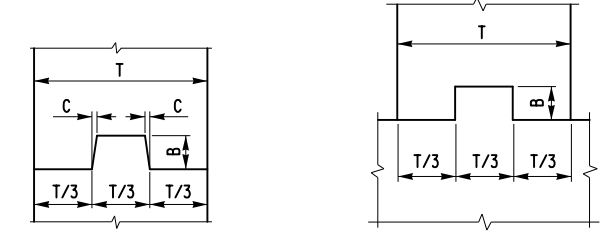


CHAMFER DETAIL
NOT TO SCALE

CONSTRUCTION AND CONTRACTION JOINTS		
C	B	T/3
3/16"	1 1/2"	0 TO 6"
3/8"	3 1/2"	6" TO 10"
3/4"	5 1/2"	10" AND OVER

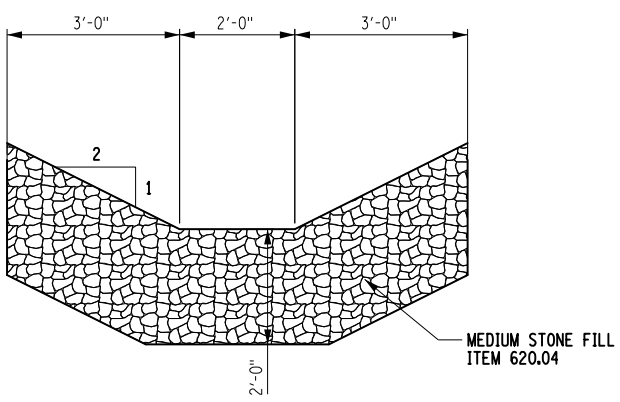
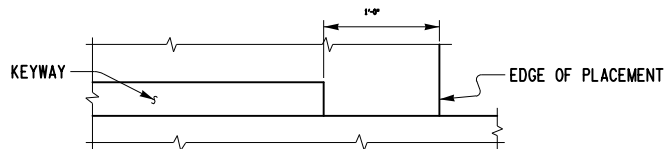
EXPANSION JOINTS		
C	B	T/3
3/16"	3 1/2"	0" TO 10"
3/4"	5 1/2"	10" AND OVER

KEYWAY DETAILS
NOT TO SCALE



VERTICAL

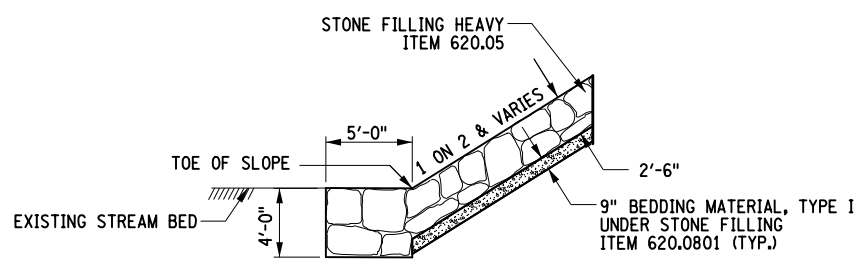
HORIZONTAL



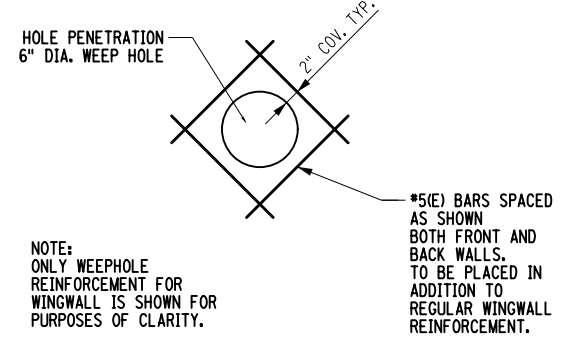
STONE LINED DITCH DETAIL
NOT TO SCALE

PILE SHOE NOTES:

1. COMMERCIAL OR PREFABRICATED SHOES ARE SUBJECT TO THE APPROVAL OF THE ENGINEER
2. A "WELDING PROCEDURE SPECIFICATION" (WPS) INCLUDING THE SHOE WELD JOINT DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL A MINIMUM OF 10 WORKING DAYS PRIOR TO WORK COMMENCING.
3. THE SHOE WELD JOINT DESIGN SHALL BE DONE IN ACCORDANCE WITH AASHTO INCLUDING N.Y.S.D.O.T. BLUE PAGES AND THE N.Y.S. STEEL CONSTRUCTION MANUAL AND THE MANUFACTURER'S RECOMMENDATION, AND AS SHOWN ON THE APPROVED WPS.
4. IF SHOES ARE WELDED AT A LOCATION OTHER THAN THE PROJECT SITE, ALL OF THE ABOVE PROVISIONS SHALL APPLY TO THE OFFSITE FABRICATOR. THE ENGINEER SHALL BE NOTIFIED BY THE CONTRACTOR OF THE ACTUAL LOCATION WHERE THE WELDING WILL BE PERFORMED A MINIMUM OF 5 WORKING DAYS BEFORE WORK COMMENCES.
5. ALL WELDING SHALL BE PERFORMED BY A CERTIFIED WELDER IN ACCORDANCE WITH THE REQUIREMENTS OF THE N.Y.S. STEEL CONSTRUCTION MANUAL.



STONE FILLING DETAIL
NOT TO SCALE



WEEPHOLE CONCRETE HOLE PENETRATION REINFORCEMENT DETAILS
NOT TO SCALE

AFFIX SEAL: EDWIN K. TWISS, JR., P.E.
 ON: FEBRUARY 21, 2024
 ALTERED BY:
 ON:



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM				MISCELLANEOUS DETAILS	DRAWING NO. MSD-1
	COUNTY: MONTGOMERY					SHEET NO. 33

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 DATE/TIME = \$DATE\$
 USER = \$NTUSER\$

ESTIMATE OF QUANTITIES			
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
201.06	CLEARING AND GRUBBING	LS	1
202.120001	REMOVING EXISTING SUPERSTRUCTURES	LS	1
202.19	REMOVAL OF SUBSTRUCTURES	CY	286
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	306
203.03	EMBANKMENT IN PLACE	CY	377
203.21	SELECT STRUCTURE FILL	CY	248
206.01	STRUCTURE EXCAVATION	CY	937
206.0201	TRENCH AND CULVERT EXCAVATION	CY	43
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	97
209.13	SILT FENCE-TEMPORARY	LF	200
304.12	SUBBASE COURSE, TYPE 2	CY	282
404.000011	PLANT PRODUCTION QUALITY ADJUSTMENT TO ASPHALT ITEMS	QU	8
404.098301	9.5 F3 TOP COURSE ASPHALT, 80 SERIES COMPACTION	TON	55.00
404.198901	19 F9 BINDER COURSE ASPHALT, 80 SERIES COMPACTION	TON	100.00
407.0102	DILUTED TACK COAT	GAL	34
551.012063	STEEL H-PILES (HP 12X63)	LF	1666
551.13	FURNISHING EQUIPMENT FOR DRIVING PILES	LS	1
551.14	DYNAMIC PILE LOAD TESTING	EACH	2
553.020001	COFFERDAMS (TYPE 2)	EACH	1
553.020002	COFFERDAMS (TYPE 2)	EACH	1
555.97010016	CONCRETE FOR STRUCTURES, CLASS HP (REINFORCEMENT INCLUDED AND NO BAR LIST IN PLANS)	CY	96.4
555.97020016	FOOTING CONCRETE, CLASS HP (REINFORCEMENT INCLUDED AND NO BAR LIST IN PLANS)	CY	98.9
557.2003	STRUCTURAL APPROACH SLAB WITH INTEGRAL WEARING SURFACE - TYPE 3 FRICTION	SY	147.5
557.4303	SUPERSTRUCTURE SLAB WITH INTEGRAL WEARING SURFACE - HPIC BOTTOM FORMWORK NOT REQUIRED, TYPE 3 FRICTION	SY	180.5
558.02	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE	SY	304
559.01	PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS	SF	3073
559.02	PROTECTIVE SEALING OF NEW STRUCTURAL CONCRETE	SF	818
563.030001MC	PRECAST CONCRETE HOLLOW SLAB UNITS	SF	1440
565.1922	TYPE E.L. BEARING (56 TO 111 KIPS)	EACH	16
568.51	STEEL BRIDGE RAILING (FOUR RAIL)	LF	135
568.70	TRANSITION BRIDGE RAILING	LF	128
606.10	BOX BEAM GUIDE RAILING	LF	27
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)	LF	18
606.120101	BOX BEAM END PIECE	EACH	2
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	EACH	2
606.63	REMOVING AND STORING BOX BEAM GUIDE RAILING	LF	249
610.1403	TOPSOIL - LAWNS	CY	51
610.1602	TURF ESTABLISHMENT - LAWNS	SY	609
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1
619.04	TYPE III CONSTRUCTION BARRICADE	EACH	10
619.1711	TEMPORARY POSITIVE BARRIER - CATEGORY 1 (PINNING PROHIBITED)	LF	80
619.1719	WARNING LIGHTS ON TEMPORARY POSITIVE BARRIERS	EACH	8
620.04	STONE FILLING (MEDIUM)	CY	40
620.05	STONE FILLING (HEAVY)	CY	308
620.0801	BEDDING MATERIAL, TYPE 1	CY	45
620.29010009	NATIVE STREAM BED MATERIAL (A)	CY	23
625.01	SURVEY OPERATIONS	LS	1
627.50140008	CUTTING PAVEMENT	LF	78
698.04	ASPHALT PRICE ADJUSTMENT	DC	711
698.05	FUEL PRICE ADJUSTMENT	DC	701
698.06	STEEL/IRON PRICE ADJUSTMENT	DC	100
699.040001	MOBILIZATION	LS	1

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DESIGN SUPERVISOR EKT JOB MANAGER EKT DESIGN JRL DRAFTING KAM / JRL CHECK MWO / WNG CHECK EKT PROJECT MANAGER EKT

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CRANES HOLLOW ROAD (CR 2) OVER EVANS KILL - BIN 3310320	PIN N/A	BRIDGES 3310320	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER RFP 04-24
	TOWN OF AMSTERDAM					ESTIMATE OF QUANTITIES
	COUNTY: MONTGOMERY					
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