CONTRACTOR'S NAME

COMPLETION DATE

FINAL ACCEPTANCE DATE RESPONSIBLE LOCAL OFFICIAL

ENGINEER IN CHARGE

FINAL COST TOTAL

FISCAL SHARE

COST(S)

AWARD DATE

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

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYSDOT POLICIES AND GUIDELINES.

STANDARD SHEETS

THE LATEST REVISIONS OF THE STANDARD SHEETS MAINTAINED BY THE NYSDOT, WHICH ARE CURRENT ON THE DATE OF ADVERTISEMENT FOR BIDS, SHALL BE CONSIDERED TO BE IN EFFECT. ALL PAY ITEMS AND WORK CONTAINED IN THE CONTRACT AND ANY ADDITIONAL PAY ITEMS AND WORK ENCOUNTERED DURING THE COURSE OF THE CONTRACT SHALL BE SUBJECT TO THE APPLICABLE STANDARD SHEETIS) UNLESS OTHERWISE SPECIFIED IN THE CONTRACT

HIGHWAY DESIGN DATA

FUNCTIONAL CLASSIFICATION: RURAL MAJOR COLLECTOR AADT: 509 VPD (2015)

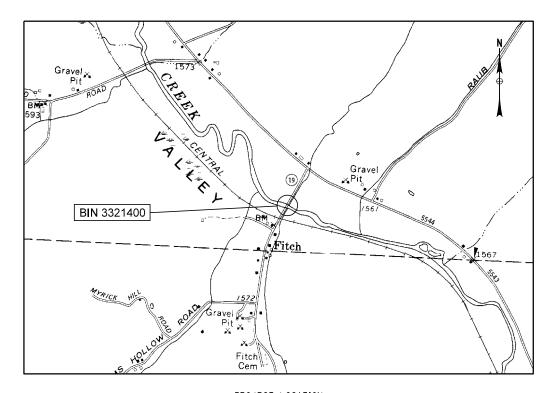
UTILITIES

UTILITY QUALITY LEVEL: C
THE INFORMATION SHOWN ON THE PLANS HAS BEEN OBTAINED BY SURVEYING AND
PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL
JUDGEMENT IN CORRELATING THIS INFORMATION TO AVAILABLE UTILITY RECORDS.



CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS

FRANKLINVILLE BRIDGE NO. 22 REPLACEMENT PROJECT FIVE MILE ROAD (C.R. 19) OVER ISCHUA CREEK **BIN 3321400 AUGUST 2018**



PROJECT LOCATION BIN 3321400 CARRIES FIVE MILE ROAD (C.R. 19) OVER ISCHUA CREEK IN THE TOWN OF FRANKLINVILLE, CATTARAUGUS COUNTY PREPARED AND RECOMMENDED BY



555 Penbrooke Drive • Penfield, NY 14526 main: 585.388.2060 • fax: 585.388.2070

MARK R. LAISTNER, P.E.

8-10-2018

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.

FRANKLINVILLE BRIDGE NO. 22 REPLACEMENT PROJECT

TOWN OF FRANKLINVILLE. CATTARAUGUS COUNTY

BIN: 3321400

FED. ROAD REG. NO. STATE SHEET NO. N.Y.

INDEX ON SHEET NO. 2



	1	
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I. LAISTNER
Σ
MANAGER
PROJECT

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= 8/10/2018 = \$USER\$	
DATE/TIME USER +	

	AL IGNME NT		TOPOGRA	PHY
ABBR.	DESCRIPTION	ABBR.	DESCRIPTI	ON
АН	AHEAD	ABUT	ABUTMENT	
ΑZ	AZIMUTH	AOBE	AS ORDERE) BY
BK	BACK	ASPH		
B ₂	BASELINE	BDY		
BRG	BEARING CENTER HAS	BLDG	!	,
€ C	CENTERLINE CURVE TO SPIRAL	BM CC		
CS e	SUPERELEVATION RATE (CROSS SLOPE)	CONC		CEN
EQ	EQUALITY	CONST		ION
EXT	EXTERNAL	CR		
HCL	HORIZONTAL CONTROL LINE	D	DEED DISTA	NCE
HSD	HEADLIGHT SIGHT DISTANCE	DM		SURE
L	LENGTH OF CIRCULAR CURVE	DWY		
LS	LENGTH OF SPIRAL	EP		
L VC E	LENGTH OF VERTICAL CURVE CENTER CORRECTION OF VERTICAL CURVE	ES FEE		
M	MAIN LINE	FEE WO/A		
PC	POINT OF CURVATURE	FP		
PI	POINT OF INTERSECTION	FD		
POL	POINT ON LINE	FL	FENCE LINE	
PSD	PASSING SIGHT DISTANCE	GAR	GARAGE	
PT	POINT OF TANGENT	GR	 	
PVC	POINT OF VERTICAL CURVE	HO		
PVI	POINT OF VERTICAL INTERSECTION	HWY		D 100
PVT R	POINT OF VERTICAL TANGENT RADIUS	IP MB		א ואנ
SC	SPIRAL TO CURVE	MON		
SSD	STOPPING SIGHT DISTANCE	N&W		/ASHE
ST	SPIRAL TO TANGENT	OG	 	
STA	STATION	0/H	OVERHEAD	
T	TANGENT LENGTH	P	PARCEL	
TGL	THEORETICAL GRADE LINE	PAV'T		
TS VC	TANGENT TO SPIRAL VERTICAL CURVE	PE POLE	!	
٧C		PED POLE	PEDESTRIAN PROPERTY L	
	TOPOGRAPHY (DRAINAGE)	POR	 	- 1142
ABBR.	DESCRIPTION	RR	+	
BB	BOTTOM OF BANK (STREAM)	RTE		
BC	BOTTOM OF CURB	ROW	RIGHT OF W	VAY
B0	BOTTOM OF OPENING	RW		
CAP	CORRUGATED ALUMINUM PIPE	SHLDR		IWAY
CB CIP	CATCH BASIN CAST IRON PIPE	SPK		
Ç STRM	CENTERLINE OF STREAM	ST		
CMP	CORRUGATED METAL PIPE	STK		
CP	CONCRETE PIPE	STY	STORY	
CSP	CORRUGATED STEEL PIPE	SW		
CUL V	CULVERT	TE		
DIA	DIAMETER	T0		
DMH DS	DRAINAGE MANHOLE	U/G WW		עוי
D'XING	DRAINAGE STRUCTURE PIPE DITCH CROSSING	, "W	I HINO WALL	
EHW	EXTREME HIGH WATER	1 _		т —
EL	ELEVATION	1	STANDARD	<u> </u>
ELEV	ELEVATION		SYMBOL (PLANS)	E
ELW	EXTREME LOW WATER]		_ _ '
ES	END SECTION	. ⊢	n ,	+-
HW	HEADWALL	∤		L
INV MH	INVERT MANHOLE	∤ ⊢	mi ft ²	N S
MHW	MEAN HIGH WATER	┤	YD ²	3 S
OHW	ORDINARY HIGH WATER	1	AC	T A
OL W	ORDINARY LOW WATER	1	YD ³	C
RCP	REINFORCED CONCRETE PIPE] [GAL	G
SICPP	SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE] [lb	L
TB	TOP OF BANK (STREAM)	j L	TON	T
	TOP OF CURB			
TC	7.00 0.0 0.0 1.00	1		
TC TG VCP	TOP OF GRATE VITRIFIED CLAY PIPE			

AII	AIICAD	7,501	71B0 1 III E 11 1			_	22201110
AZ	AZIMUTH	AOBE		BY ENGINEER		EMH	ELECTRIC MANHOLE
BK	BACK	ASPH	ASPHAL T	ASPHAL T			GAS
BE	BASELINE	BDY	BOUNDARY			GP	GUY POLE
BRG	BEARING	BLDG	BUILDING	BUILDING			GAS SERVICE BOX (HOUSE LINE)
Œ.	CENTERLINE	ВМ	BENCH MARK			G۷	GAS VALVE (MAIN LINE)
CS	CURVE TO SPIRAL	СС	CENTER TO (ENTER		HYD	HYDRANT
е	SUPERELEVATION RATE (CROSS SLOPE)	CONC	CONCRETE			LP	LIGHT POLE
EQ	EQUALITY	CONST	CONSTRUCTIO	N		LPG	LOW PRESSURE GAS
EXT	EXTERNAL	CR	COUNTY ROAD)		PP	POWER POLE
HCL	HORIZONTAL CONTROL LINE	D	DEED DISTAN	CE		SA	SANITARY SEWER
HSD	HEADLIGHT SIGHT DISTANCE	DM	DIRECT MEAS	UREMENT		SMH	SANITARY MANHOLE
L	LENGTH OF CIRCULAR CURVE	DWY	DRIVEWAY			ST	STORM SEWER
LS	LENGTH OF SPIRAL	EP	EDGE OF PAY	'EMENT		T	TELEPHONE
L VC	LENGTH OF VERTICAL CURVE	ES	EDGE OF SHO	OULDER		TCB	TRAFFIC CONTROL BOX
E	CENTER CORRECTION OF VERTICAL CURVE	FEE	FEE ACQUISI			TELBOX	TELEPHONE BOX
M	MAIN LINE	FEE WO/A	FEE ACQUISI	TION 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			W۷	WATER VALVE (MAIN LINE)
PVC	POINT OF VERTICAL CURVE	H0	HOUSE				CURCUREAGE EVEN ORATION
PVI	POINT OF VERTICAL INTERSECTION	HWY	HIGHWAY				SUBSURFACE EXPLORATION
PVT	POINT OF VERTICAL TANGENT	IP	IRON PIN OR	IRON PIPE		ABBR.	DESCRIPTION
R	RADIUS	мв	MAILBOX				
SC	SPIRAL TO CURVE	MON	MONUMENT			REPI	LACE ABBREVIATION "AB" WITH:
SSD	STOPPING SIGHT DISTANCE	N&W	NAIL AND WA	SHER		АН	HAND AUGER
ST	SPIRAL TO TANGENT	OG	ORIGINAL GR	DUND		CP	CONE PENTROMETER
STA	STATION	0/H	OVERHEAD			DA	21/4 INCHES CASED DRILL HOLE
T	TANGENT LENGTH	Р	PARCEL			DM	DRILLING MUD
TGL	THEORETICAL GRADE LINE	PAV'T	PAVEMENT			DN	4 INCHES CASED DRILL HOLE
TS	TANGENT TO SPIRAL	PE	PERMANENT I	ASEMENT		FH	HOLLOW FLIGHT AUGER
VC	VERTICAL CURVE	PED POLE	PEDESTRIAN	POLE		PΑ	POWER AUGER
	TOPOGRAPHY (DRAINAGE)	P	PROPERTY LI			PH	PROBE
		POR	PORCH			PT	PERCOLATION TEST HOLE
ABBR.	DESCRIPTION	RR	RAILROAD			RP	1 INCH SAMPLER (RETRACTABLE PLUG)
BB	BOTTOM OF BANK (STREAM)	RTE	ROUTE				TO BE DEFINED AT THE TIME OF EXPLORATION
BC	BOTTOM OF CURB	ROW	RIGHT OF WA	Υ		SP	SEISMIC POINT
В0	BOTTOM OF OPENING	RW	RETAINING W			TP	TEST PIT
CAP	CORRUGATED ALUMINUM PIPE	SH	STATE HIGHW			ABBRE VI	ATION "C" IN CATEGORIES:
СВ	CATCH BASIN	SHLDR	SHOULDER			DA, DM,	DN, AND FH WITH:
CIP	CAST IRON PIPE	SPK	SPIKE			В	BRIDGE
€ STRM	CENTERLINE OF STREAM	ST	STREET			С	CUT
CMP	CORRUGATED METAL PIPE	STK	STAKE			D	DAM
CP	CONCRETE PIPE	STY	STORY			F	FILL
CSP	CORRUGATED STEEL PIPE	SW	SIDEWALK			K	CULVERT
CUL V	CULVERT	TE	TEMPORARY E			W	WALL
DIA	DIAMETER	TO	TEMPORARY (CCUPANCY		Х	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION
DMH	DRAINAGE MANHOLE	U/G	UNDERGROUND				BE DEFINED AT THE TIME THE EXPLORATION
DS	DRAINAGE STRUCTURE PIPE	WW	WING WALL				IS MADE
D'XING	DITCH CROSSING						
EHW	EXTREME HIGH WATER	Π г	CT.1110.100	ITEM DAMENT			
EL	ELEVATION		STANDARD	ITEM PAYMENT UNIT:		ALENT	
ELEV	ELEVATION		SYMBOL (PLANS)	ESTIMATE OF		NCLATURE:	
F1 111	CATOCAGE A ON WATER		IL L AND!	QUANTITIES SHEET	(SPEC	S/PROPOS/	HL/

TOPOGRAPHY (MISCELLANEOUS)

UTILITIES

ABBR. DESCRIPTION E ELECTRIC

STANDARD SYMBOL (PLANS)	ITEM PAYMENT UNIT: ESTIMATE OF QUANTITIES SHEET	EQUIVALENT NOMENCLATURE: (SPECS/PROPOSAL)
"	-	INCHES
,	LF	LINEAR FEET
mi	MI	MILES
f†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

SHEET NO.	DESCRIPTION	DRAWING NO.
1	TITLE	-
2	INDEX & ABBREVIATIONS	AB-01
3	LEGEND - 1	LEG-01
4	LEGEND - 2	LEG-02
5	SURVEY CONTROL AND BASELINE TIES	SUR-01
6	WORK ZONE TRAFFIC CONTROL DETOUR PLAN	WZTC-01
7	WORK ZONE TRAFFIC CONTROL DETOUR PROFILE	WZTC-02
8	GENERAL NOTES:	GN-01
9	EROSION & SEDIMENT CONTROL PLAN	ECP-01
10	ROADWAY PLAN	PL-01
11	TYPICAL SECTIONS	TYP-01
12	ROADWAY PROFILE	PR-01
13	BRIDGE GENERAL PLAN AND ELEVATION	BR-01
14	EXCAVATION AND BACKFILL DETAILS	BR-02
15	BEGIN ABUTMENT PLAN & ELEVATION	BR-03
16	END ABUTMENT PLAN & ELEVATION	BR-04
17	ABUTMENT TYPICAL SECTIONS & DETAILS	BR-05
18	TRANSVERSE SECTION AND DETAILS	BR-06
19	FRAMING PLAN AND GIRDER ELEVATION	BR-07
20	STEEL DETAILS-1	BR-08
21	STEEL DETAILS-2	BR-09
22	SHEAR, MOMENT AND MISC. STEEL TABLES	BR-10
23	DECK REINFORCEMENT PLAN	BR-11
24	APPROACH SLAB DETAILS	BR-12
25	RAILING LAYOUT PLAN	BR-13
26	RAILING DETAILS - 1	BR-14
27	RAILING DETAILS - 2	BR-15
28	RAILING DETAILS - 3	BR-16
29	RAILING DETAILS - 4	BR-17
30	ESTIMATE OF QUANTITIES	EST-01
31	SUBSURFACE LOG - 1	GEO-01
32	SUBSURFACE LOG - 2	GEO-02
33	SUBSURFACE LOG - 3	GEO-03

FRANKLINVILLE BRIDGE NO. 22 REPLACEMENT PRO	JECT		BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NO.
						Popul Design Group
FIVE MILE ROAD (C.R. 19) OVER ISCHUA CREEK			BIN 3321400		INDEX A ADDDEVIATIONS	<u> </u>
TOWN OF FRANKLINVILLE		DATE ISSUED: AUG. 2018			INDEX & ABBREVIATIONS	DRAWING NO. AB-01
COUNTY: CATTARAUGUS	REGION: 5					SHEET NO. 2 OF 33

ALIGNMENT LANDSCAPE ROADWAY TRAFFIC WORK ZONE TW7RT F BARRIER, TEMPORARY STYLE NAME DESCRIPTION STYLE NAME DESCRIPTION STYLE NAME DESCRIPTION BARRIER, TEMPORARY, W/ WARNING · CZ TWZBTWL. CONTROL (CENTERLINE) LABL AREA, BRUSH LINE RCZ_P CLEAR ZONE ~~~~~~ LIGHTS TWZCD_P AD P AREA, HEDGE ROW ---- -0-CHANNELIZING DEVICE DETOUR I AHR GUIDE RAIL. MISCELLANEOUS PAVEMENT MARKING REMOVAL OR TWZPMRC_P AT_P TRANSITION CONTROL AREA, PLANTING BED GUIDE RAIL, BOX BEAM BRIDGE UTILITIES LAWA AREA, WOODED AREA OUTLINE **RGBM** GUIDE RAIL, BOX BEAM, MEDIAN STYLE NAME _____ LAWE AREA, WATERS EDGE ---- -0-RGC GUIDE RAIL, CABLE DESCRIPTION RATI SHEET PILING BSHT LCUT_P CUT LIMIT RGCB GUIDE RAIL, CONCRETE BARRIER ONDUIT. HANGING LFILL_F CONTROL RGP_F FILL LIMIT 0 0 GUIDE POST ONDUIT, OVERHEAD **LFNC** —XI— RGW GUIDE RAIL, W BEAM CB **FENCE** BASELINE ELECTRIC LINE, UNDERGROUND ********** LTRC TREE ROW, CONIFEROUS RGWM GUIDE RAIL, W BEAM, MEDIAN CBPR M BASELINE, PROJECTION X ELECTRIC LINE, HANGING LTRD TREE ROW, DECIDUOUS PARKING BUMPER DRAINAGE OE . ELECTRIC LINE, OVERHEAD <u>_____</u> **—** RRC RAIL ROAD, CATENARY WALL, H PILE CULVERT PIPE OFT-UFT0 FLECTRIC TRANSMISSION, OVERHEAD -13RRRER RAIL ROAD, 3RD RAIL LWR WALL, RETAINING DCP_P CULVERT PIPE (DIF **UESS ELECTRIC. SUBSTATIONS** LWS WALL, STONE RRPLS_P RAIL, PHOTO, LARGE SCALE F0 FIBER OPTIC, UNDERGROUND DDG_P DITCH, GRASS LINED ROW MAPPING -]F0[-**UFOH** FIBER OPTIC. HANGING RRPSS RAIL, PHOTO, SMALL SCALE DDP_P DITCH, PAVED INVERT MDL DEED LINE - OFO-UF00 FIBER OPTIC, OVERHEAD RRS RUMBLE STRIP PE MEE EASEMENT. EXISTING GAS, UNDERGROUND DDS_P DITCH, STONE LINED RRSLS_P RAIL, SURVEY, LARGE SCALE PE · MEP_P EASEMENT, PERMANENT - 16[-LIGH GAS. HANGING DFL_P FLOW LINE MEPA_P RRSSS EASEMENT, PERMANENT, APPROX. RAIL, SURVEY, SMALL SCALE APE -0G -GAS, OVERHEAD SLOTTED DRAIN SIGNS EASEMENT, TEMPORARY TF -INFORM CABLE, UNDERGROUND DUD_P **BILLBOARDS** META_I EASEMENT. TEMPORARY, APPROX. SBLB ATE--]IC[-UICH INFORM CABLE, HANGING **ENVIRONMENTAL** FEE MF_P FEE ACQUISITION, W/ ACCESS SM MULTIPLE POST OIL LINE, UNDERGROUND S **EBLHS** BALE, STRAW SS0 STRUCTURE, OVERHEAD MFA_P FEE ACQUISITION, APPROXIMATE AFEE . OIL LINE, HANGING LIOH CURTAIN. TURBIDITY MFS_P SS0C STRUCTURE, OVHD. CANTILEVER FEE ACQUISITION, SHAPE POLE, BRACE, PUSH BRACE 0-0-0-0-0 EDMC DAM, COFFER FEE ACQUISITION, W/O ACCESS STRIPING -FEE W/OA-EDMEC_P DAM. EARTHEN CHECK MHA HISTORICAL, ACQUISITION STB* BROKEN LINE SA USA SANITARY SEWER, UNDERGROUND MHB HIGHWAY BOUNDARY STDB* DOUBLE BROKEN LINE]SA[-**IISAH** SANITARY SEWER, HANGING EDMGSC_P DAM, GRAVEL BAG/SAND BAG CHECK MHBA HIGHWAY BOUNDARY, APPROX. STDL4 DOTTED LINE LONG - AHB SAF SANITARY SEWER, FORCE MAIN, UGN EDMPC_P DAM. PREFABRICATED CHECK MHBW HWY BOUNDARY, FACE OF WALL STDS* DOTTED LINE SHORT -ISAF USAFH SANITARY SEWER, FORCE MAIN, HAN MHBWOA HIGHWAY BOUNDARY, W/O ACCESS STFB* FULL BARRIER LINE HB W/OA TELEPHONE, UNDERGROUND EDMSC_P DAM. STONE CHECK JURISDICTION, CITY STH* HATCH LINE UTH TELEPHONE. HANGING **EFNS** FENCE, SILT MJCY JURISDICTION, COUNTY STPB* PARTIAL BARRIER LINE OT UTO TELEPHONE. OVERHEAD **EFNSV** FENCE, SILT & VEGETATION MJHD JURISDICTION, HISTORIC DISTRICT STRCT ROUNDABOUT, CAT TRACKS UTV CABLE TV, UNDERGROUND **EFNV** FENCE, VEGETATION MJLL JURIS., (GREAT, MILITARY) LOT LINE *********** STRYL ROUNDABOUT, YIELD LINE -]CTV[-UTVH CABLE TV. HANGING EWAA_P WETLAND, ADJACENT AREA M.IN JURISDICTION, NATION STSB STOP BAR -OCTV-UTVO CABLE TV, OVERHEAD WETLAND, FEDERAL MJPB JURISDICTION, PUBLIC LANDS STSE* SOLID, EDGE UNKNOWN, UNDERGROUND WETLAND, FEDERAL AND STATE MJS JURISDICTION, STATE STXL X WALK, LADDER LINE - *ในม*โ-UNKNOWN, HANGING FWM WETLAND, MITIGATION AREA -Iswl MJT JURISDICTION, TOWN UNKNOWN. OVERHEAD WETLAND, STATE STXLB X WALK, LADDER BAR LINE MJV JURISDICTION, VILLAGE WATER LINE, UNDERGROUND * = W (WHITE) OR Y (YELLOW) MPL PROPERTY LOT LINE UWH WATER LINE, HANGING TRAFFIC CONTROL 1. THE LEGEND ILLUSTRATES MAPPING FEATURES (EXISTING AND PROPOSED). MPLA PROPERTY LOT LINE, APPROXIMATE UWO WATER LINE, OVERHEAD 2. FEATURES ARE SHOWN AS EITHER LINEAR (ROADWAY GUIDERAIL, ROADWAY SIDEWALK, A TCSW SIGNAL, SPAN WIRE MSL SUB LOT LINE 98 UTILITY LINES, ETC.) OR POINT (SIGN, UTILITY POLE, ETC.). 3. 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

FILE NAME = CR19-brg22-cph.log.dgn DATE/TIME = 8/10/2018 3:18:41 PM USER = \$USER\$

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.

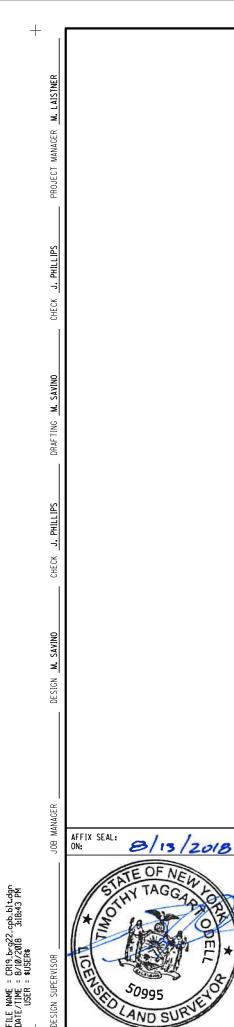
FEATURES SHOWN AT THE HEAVIER WEIGHT ARE PROPOSED ONLY AND DO NOT HAVE CORRESPONDING EXISTING FEATURES.

FRANKLINVILLE BRIDGE NO. 22 REPLACEMENT PRO	JECT		BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NO.
FIVE MILE ROAD (C.R. 19) OVER ISCHUA CREEK TOWN OF FRANKLINVILLE		DATE ISSUED: AUG. 2018	BIN 3321400		LEGEND-1	DRAWING NO. LEG-01
COUNTY: CATTARAUGUS	REGION: 5	DATE 1000ED: A00: 2010				SHEET NO. 3 OF 33
					CATTADALICUS COLINTY	DEDARTMENT OF BURLIC WORKS

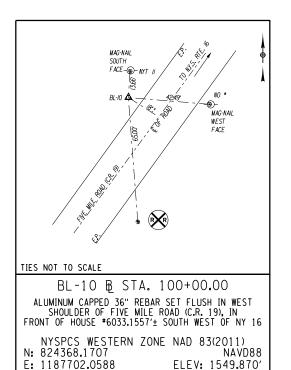
			ALIGNMENT			DRAINAGE			ITS		ı	ROW MAP	PING			SIGNS				UTILITIES
8	CELI	L NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	NAME	DESCRIPTION	CELL	. NAME	DESCRIPT	TION	CELL	NAME	DESCRIPT	ION	CELL	NAME	DESCRIPTION
ISTN	*	ACC	CENTER OF CURVATURE	+	DINV	INVERT	Φ	IANT_P	ANTENNAS	Ð	MDL1P	DEED LINE	, TYPE 1	+	S	SINGLE POS	ST	E	UEB	ELECTRIC, BOX
. €	+	ACOGO	COGO		DS	STRUCTURE, RECTANGULAR		IASCTS	ACCOU. SPEED/COUNT SNSR.S	2	MDL2P	DEED LINE	, TYPE 2	þ	S_P	SINGLE POS	ST, PROPOSED	E	UEM	ELECTRIC, METER
ER.	(6)	ACS	CURVE TO SPIRAL	+	DSI	STRUCTURE, INVERT	P	ICABPAD	CABINET & PAD	3	MDL3P	DEED LINE	, TYPE 3	þ	SB_P	BACK TO B	ACK, PROPOSED	©	UEMH	ELECTRIC, MANHOLE
AANAG	Δ	ADPI_P	DETOUR, POINT OF INTERSECT.		DSM	STRUCTURE, MANHOLE		ICCTV	CCTV SITE	4	MDL4P	DEED LINE	, TYPE 4	_	SDEL	DELINEATOR	RS	$\overline{\Phi}$	UEPT	ELECTRIC, POLE, TRANS.
ECT N	0	ADPL_P	DETOUR, POINT ON LINE	8	1	STRUCTURE, MANHOLE,) OPPÓ(ICDPD	CDPD TRANSCEIVER	\$	MDL5P	DEED LINE	, TYPE 5	\bigoplus	SPM	PARKING ME	ETER	G	UGM	GAS, METER
PROJI	0	AEQN	EQUATION	(Ø)	DSMTXX_P	TYPE "XX" "XX" = 48, 60, 72, 96	*	ICELLT	CELL PHONE TOWER	0	MEEP	EASEMENT,	EXISTING	REM	SRM	REFERENCE	MARKERS	©	UGMH	GAS, MANHOLE
	A	AEQNAH	D EQUATION AHEAD		DSR	STRUCTURE, ROUND	€	ICJB	CONDUIT JACK OR BORING	(A)	MEPAP_P	EASEMENT,	PERM., APPROX.		SRSC3	SHLD, CTY,	123 DIG.	-\$ −	UGLM	GAS, LINE MARKER
	B	AEQNBK	EQUATION BACK			STRUCTURE, RECT., WITH CURB		ICNTLCAB	CONTROLLER CABINET	0	MEPP_P	EASEMENT,	PERM., BACK LINE		SRSC4	SHLD, CTY,	4 DIG.	FP	UGP	GAS/FUEL PUMP
	0	AEVT	EVENT STATION		DST"X"CB_F	TYPE "X" "X" = F, G, N, O, P, R		ICPB	COMMUNICATION PULL BOX	0	MEPSP_P	EASEMENT,	PERM., SHAPE		SRSCT2	SHLD, CTY	TOUR, 1-2 DIG.	₩	UGV	GAS, VALVE
	0	APC	POINT OF CURVATURE	5888 T	•	STRUCTURE, RECT., TYPE "X"	⊗	ICTD	CONDUIT TURNING DOWN	♦	MFAP_P	FEE ACQUI	SITION, APPROX.		SRSCT4	SHLD, CTY	TOUR, 3-4 DIG.	∞	UGVT	GAS, VENT
	\odot	APCC	POINT OF COMPOUND CURVATURE	B3331	DST"X"_P	"X" = I, K, L, M, O, P, U	—0	ICTU	CONDUIT TURNING UP	♦	MFP_P	FEE ACQUI	SITION, BACK LINE	<u> </u>	SRSI	SHLD, INTE	RSTATE	⊙⊷	ULP	LIGHTING, POLE
ECK	\triangle	API	POINT OF INTERSECTION		EN'	VIRONMENTAL)@(ICVTRT	COMM. VEH. ROAD TRANSCEIVER	•	MFSP_P	FEE ACQUI	SITION, SHAPE	<u> </u>	SRSN2	SHLD, NATI	ONAL, 2 DIG.	ФОФ	ULPM	LIGHTING, POLE, MEDIAN
ᇙ	Δ	APOB	POINT OF BEGINNING		T	T	+	IDEFAULT	DEFAULT	X	МНВАР	HIGHWAY B	NDRY., APPROX.		SRSN3	SHLD, NATI	ONAL, 3 DIG.	@	ULPP	LIGHTING, POLE, PED.
	0	APOC	POINT OF CURVATURE	CULV	EI0P_P	STR., INLET, OUTLET PROT.	EZ	IEZR	E-ZPASS READER	•	МНВСР	HISTORICAL	L, BLDG. CORNERS	\Diamond	SRSS2	SHLD, STAT	rE, 2 DIG.		UMFC	MISC. FILLER CAP
	Δ	AP0E	POINT OF END	(GB)	EIPGB_P	STR., INLET PROT., GRAVEL BAG	EZ-T	IEZTR	TRANSMITTAL READER	×	МНВР	HIGHWAY B	NDRY, PT.	\bigcirc	SRSS3	SHLD, STAT	re, 3 DIG.	- ◆	UOLM	OIL, LINE MARKER
	\odot	APOL	POINT ON LINE	±			☐ XC	IFOXCAB	FIBER OPTIC X-CONNECT CABINET	⊗	MJCP	PT., JURIS	. CITY	\bigcirc	SRSS4	SHLD, STAT	re, 4 DIG.	-0-	UP	POLE, WITH UTILITY
	\odot	APOS	POINT ON SPIRAL	H/S)	EIPHS_P	STR., INLET PROT., HAY/STRAW		IFUSSPL	FUSION SPLICE	•	MPBC	PT., BUILD	ING CORNER		TRA	AFFIC CON	ITROL	0	UPD	POLE, DEAD (NO UTILITY)
ا ا	0	APOT	POINT ON TANGENT	PRFB	EIPP_P	STR., INLET PROT., PREFAB.	99	IHARADV	HAR ADVISORY SIGN		MPCC	PT., CROSS	CUT	П	TCBJ	BOX. JUNC	TTON	ф -	UPL	POLE, WITH LIGHT
AFTIN	Δ	APOVC	POINT ON VERTICAL CURVE	^			<u></u>	IHARST	HAR SITE	1	MPDH	PT., DRILL	HOLE		TCBP	BOX, PULL		<u> </u>	USMH	SANITARY SEWER MANHOLE
Br	Δ	APOVT	POINT ON VERTICAL TANGENT	(SF)	EIPSF_P	STR., INLET PROT., SILT FENCE	LC	ILC	LOAD CENTER	*	MPF	PT., FENCE	LOCATION		TCBS	BOX, SPLIC		P	UTB	TELEPHONE, BOOTH
	Y	APORC	POINT ON REVERSE CURVE		ERCB	RISER, CONCRETE BOX	-8-	IMECSPL	MECHANICAL SPLICE	0	MPIP	PT., IRON	PIPE		TCMC	1	UTER CABINET	-♦-	UTLM	TELEPHONE, LINE MARKER
	0	APT	POINT OF TANGENCY		ETRS_P	TRAP, SEDIMENT		IMSCS	PORT. SPEED & COUNT SENSOR	0	MPIR	PT., IRON	ROD	<u>.</u>	TCPP	PED POLE		(T)	UTMH	TELEPHONE, MANHOLE
	(1)	APVC	POINT OF VERTICAL CURVATURE	+	EWFG	WETLAND FLAG		IMSCTS	MICRO SPEED & COUNT SENSOR		MPM	PT., MONUN	MENT	<u>+</u>	TCSH	SIGNAL HE	ADS	- \$−	UTVLM	CABLE TV, LINE MARKER
	Δ	APVCC	POINT OF VERT. CMPND CURVE			1	- `W´:	IMT	MICROWAVE TRANSCEIVER		МРММ	PT., MONUN	MENT, MISC.	<u> </u>	TCSP	SIGNAL POI		C	UTVPB	CABLE TV, PULL BOX
×	(A)	APVI	POINT OF VERT. INTERSECTION			OTECHNICAL	OVMS	IOVHVMS	PERM. OVERHEAD VMS	Ø	MPN	PT., NAIL	-			1			UUB	UNKNOWN, BOX
CHECI	Δ	APVRC	POINT OF VERT. REVERSE CURVE	•	GDH	DRILL HOLE	PADD	IPASCS	PORT. ACCOU. SPD & CNT. SENSOR	*	MPRS	PT., RAILR	OAD SPIKE		IKAF	FIC WORK	ZUNE	×	UUJB	UNKNOWN, JUNCTION BOX
	(1)	APVT	POINT OF VERTICAL TANGENCY		l	ANDSCAPE		IPEDS	PEDESTRIAN SIGNAL HEAD	斑	MPSP	PT., SPIKE		<u> </u>	TWZAP_P	ARROW PAN	EL	8	UUMH	UNKNOWN, MANHOLE
	<u></u>	ASC	SPIRAL TO CURVE	+	LELS	ELEVATION, SPOT	\	IPSS	PAVEMENT SURFACE SENSOR	*	MPST	PT., STAKE		<u>: :</u>	TWZAPC_	P ARROW PAN	EL, CAUTION MODE		UUPB	UNKNOWN, PULL BOX
	\triangle	ASPI	SPIRAL POINT OF INTERSECTION		LFP	FLAG POLE	PVMS	IPVMS	PERM. VMS	⊗	MPTW	PT., TREE	W/ WIRE	•••	TWZAPT_	P ARROW PAN	EL, TRAILER OR SUPPORT		UUVL	UNKNOWN, VALVE
	0	ASTS	SPIRAL TO SPIRAL		LMB	MAILBOX	RM	IRM	RAMP METER	+	MPWL	PT., WALL	LOCATION		TWZBCD_I	P BARRICADE	(TYPE III)	<u> </u>	UUVT	UNKNOWN, VENT
	\otimes	AST	SPIRAL TO TANGENT		LPB	PAPER BOX	A RWIS	IRWIS	RDWY WEATHER INFO. SENSOR		RO	W ACQUIS	SITION	\vdash	TWZCMS_	P CHANGEABL	E MESSAGE SIGN (PVMS)	0	UUW	UNKNOWN, WELL
SIGN	8	ATS	TANGENT TO SPIRAL		LPST	POST, SINGLE	図	ISP	SOLAR PANEL	M1 P1	MECDI	FEE ACQUIS	SITION	•	TWZFLG_I			Q	UWFH	WATER, FIRE HYDRANT
. DE;	۵	AVEVT	VERTICAL EVENT POINT	(II)	LRB	ROCK, BOULDER	<u> </u>	ISST	SPREAD SPECT. TRANSCEIVER	FEE	ML2_L	FEE AUQUIS	21 1 TOIA	1	TWZFT_P		TENUATOR /	W	UWM	WATER, METER
	0	AVHIGH	VERTICAL HIGH POINT	米	LSHC	SHRUB, CONIFEROUS	TC TC	ITDB	TELEPHONE DEMARCATION BLK		MEPS_P_T	EASEMENT,	PERMANENT		TWZIA_P	CRASH CUS	HION (TEMPORARY)	W	UWMH	WATER, MANHOLE
	0	AVLOW	VERTICAL LOW POINT		LSHD	SHRUB, DECIDUOUS	↑ O _{TP}	ITP	SUBSURFACE TEMP, PROBE	(M)	METS D T	EASEMENT,	TEMPORARY	-	TWZLUM_		(TEMPORARY)	<u>-</u>	UWV	WATER, VALVE
			BRIDGE		LTC	TREE, CONIFEROUS)Ó(IVTRT	VEHICLE TO RDWY TRANSCEIVER	T <u>E</u>	MEIS_F_I	LMSEMENI,	I LMI UNANI	<u>⇒</u>	TWZSDT_I	SYMBOL D	RECTION OF TRAFFIC	®	UWW	WATER, WELL
		BSC	BRIDGE, SCUPPER	(0)	LTD	TREE, DECIDUOUS	WIM	IWIMD	WEIGHT IN MOTION DETECTOR		METS_P_T	OCCUPANCY,	, TEMPORARY	<u> </u>	TWZSDTD	- ^P TRAFFIĆ DI	ETOUR			
ا چ			CONTROL	\display	LTS	TREE, STUMP		IWVR	WIRELESS VIDEO REPEATER	(M1) (P1)	MFS_P T	FEE ACQUIS	SITION W/O ACCESS	<u> </u>	TWZSGN_I					
INAGE			1	Ø	LTW_P	TREE, WELL OR WALL	(V)-(IWVRC	WIRELESS VIDEO RECEIVER	FEE WO/				<u>0</u> →	TWZSIG_F		AFFIC OR PEDESTRIAN			
98 M∕		CBP	BASELINE, POINT	+	LUKP	UNKNOWN POINT	- `V`:	IWVTT	WIRELESS VIDEO TRANSMITTER			ROADWA	4Y	<u> </u>	TWZWL_P					
ا ڪ	0	CBPOL	BASELINE, POINT ON LINE	1, THF	LEGEND III	USTRATES MAPPING FEATURES (EXI	- STING AND) PROPOSED).		\bigcirc	RES_P	ELEVATION	, SPOT		TWZWV_P	WORK VEHT	CLE WITH TRUCK			
	<u>◎</u>	CBSP	BASELINE, SPUR POINT	2. FEAT	URES ARE S	HOWN AS EITHER LINEAR (ROADWAY	GUIDERA		IDEWALK,	\boxtimes	RGA	GUIDE RAIL	_, ANCHOR		TWZWVA_I		TTENUATOR			
	₩	CBTP	BASELINE, TIE POINT	UTILI	ITY LINES, E	ETC.) OR POINT (SIGN, UTILITY POL	E, ETC.).		·	0	RGP	GUIDE POS	T, SINGLE							
		CPBM	BENCHMARK	3. FEAT	URES SHOWN ESPONDING	ON THE LEGEND AS EXISTING FE	ATURES A	_SO HAVE						1_						
	•	CPSM	POINT, HORIZ. PHOTOGRAMMETRY POINT. SURVEY MARKER, PERM.			RE SYMBOLOGY IS IDENTICAL TO E				2 REPLA	CEMENT PRO	JECT		BRIDG	j£S	CULVERTS	ALL DIMENSIONS IN FT	UNLESS	OTHERWISE	NOTED CONTRACT NO.
۳ ا	<u> </u>	CPSM				WEIGHT. LINE WEIGHT FOR PROPO SIZE DRAWINGS).	JSED FEAT	URES IS THIC	FIVE MILE ROAD (C.R. 19) OV	ER ISCHI	JA CREEK			BIN 3	3321400					POPLI DESIGN GROUP
RVIS	Ψ	CPSV	POINT, VERT., PHOTOGRAMMETRY			ES NOT INCLUDED ON THE LEGEND			UNIQUE TOWN OF FRANKLINVILLE				DATE ISSUED: AUG. 2018				LEG	END-2		DRAWING NO. LEG-02
SUPE						H AS THE PAVEMENT EDGE, PAVEME LED ON THE PLANS.	LINI EUGE	OF IRAVEL W	COUNTY: CATTARAUGUS			REGION: 5								SHEET NO. 4 OF 33
SIGN						AT THE HEAVIER WEIGHT ARE PREXISTING FEATURES.	OPOSED O	NLY AND DO N	OT HAVE											COUNTY DEPARTMENT OF PUBLIC WORKS
- ^岩 L				CONN	-21 014D1140 1	INTO TENTONES												D0	CUMENT NAM	E: CR19_brg22_cph_leg.dgn

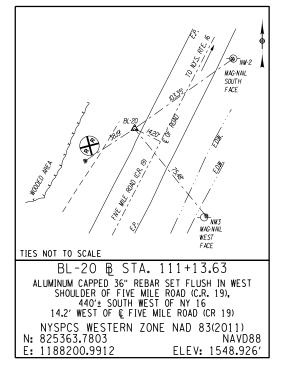
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DESIGN SUPERVISOR



ALTERED BY: ON:





- CAUTION SHOULD BE EXERCISED WHEN USING ELEVATIONS OF BASELINE POINTS. AS THEY ARE SUSCEPTIBLE TO FROST HEAVE.

SURVEY BASELINE TIES

NOT TO SCALE

		FIVE MILE ROA	AD (C.R. 19) CE	ENTERLINE		
POINT	© STATION	NORTHING	EASTING	RE STATION	₽ OFFSET	
P.O.B.	0+00.00	824701.658	1187878.796	103+77.33	8.60 ft. RIGHT	
P.O.L.	7+36.33	825357.292	1188213.938	111+13.63	14.48 ft. RIGHT	

TABLE OF BENCHMARKS											
BM NO.	ELEVATION	NORTHING	EASTING	DESCRIPTION							
BM-1	1551.66	824702.4	1187900.3	CHISELED "X" ON NORTH WEST BOLT OF RAILROAD GATE ARM POST. 250'± SOUTH WEST OF FIVE MILE ROAD (C.R. 19) OVER ISCHUA CREEK							
BM-2	1549.21	825164.4	1188091.7	RAILROAD SPIKE IN EAST FACE OF UTILITY POLE 510 ON WEST SIDE OF FIVE MILE ROAD (C.R. 19). 670'± SOUTH WEST OF N.Y.S. RTE. 16							
BM-3	1559.41	825717.2	1188423.9	BOX CUT ON WEST WING WALL OF CULVERT LOCATED IN THE SOUTH EAST INTERSECTION OF FIVE MILE ROAD (C.R. 19) AND							

VERTICAL DATUM: NAVD 88

HORIZONTAL CONTROL

HORIZONTAL CONTROL FOR THIS PROJECT, IN ENGLISH UNITS, IS REFERENCED TO THE NORTH AMERICAN HORIZONTAL DATUM OF 1983 (NAD 83/2011), N.Y.S. PLANE COORDINATE SYSTEM, CENTRAL ZONE, TRANSVERSE MERCATOR PROJECTION, BY MEANS OF GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS, UTILIZING NATIONAL GEODETIC SURVEY (NGS) ONLINE POSITIONING USER SERVICE (OPUS).

VERTICAL CONTROL

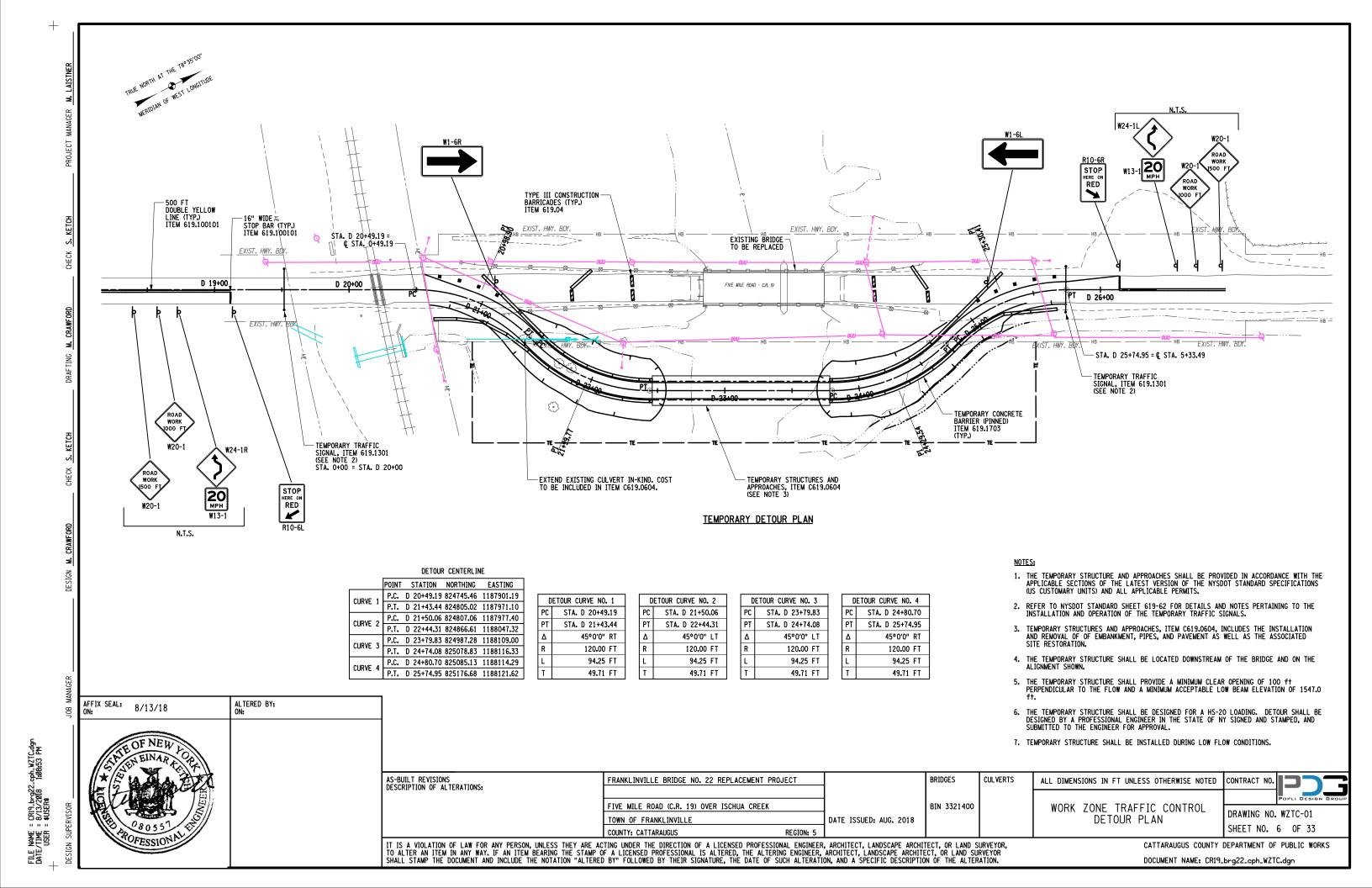
VERTICAL CONTROL FOR THIS PROJECT, IN ENGLISH UNITS, IS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). ELEVATIONS WERE ESTABLISHED BY MEANS OF GLOBAL POSITIONING SYSTEM (GPS) OBSERVATIONS, UTILIZING NATIONAL GEODETIC SURVEY (NGS) ONLINE POSITIONING USER SERVICE (OPUS).

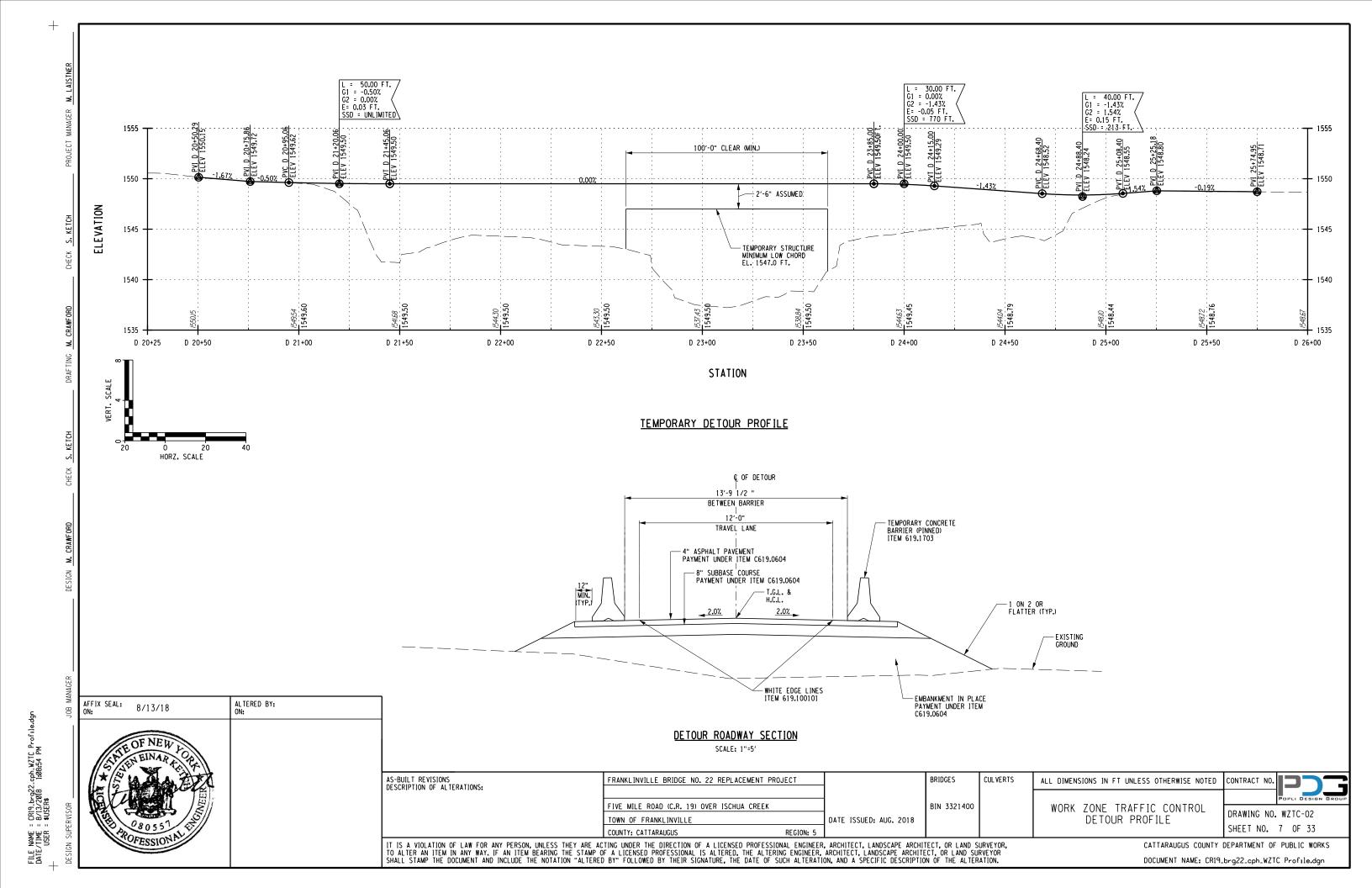
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	FRANKLINVILLE BRIDGE NO. 22 REPLACEMENT PROJECT		BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NO.
	FIVE MILE ROAD (C.R. 19) OVER ISCHUA CREEK		BIN 3321400		SURVEY CONTROL AND	POPLI DESIGN GROUP
	TOWN OF FRANKLINVILLE	DATE ISSUED: AUG. 2018	BIN 3321 100		BASELINE TIES	DRAWING NO. SUR-01
	COUNTY: CATTARAUGUS REGION: 5					SHEET NO. 5 OF 33

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.

CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS

DOCUMENT NAME: CR19_brg22_cpb_bltdgn





AFFIX SEAL:

TE OF

- DESIGN SPECIFICATIONS: NYSDOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF NOVEMBER 2017 (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AND DECK SLABS AT 28 DAYS: f'c =
- 2. DESIGN LIVE LOAD: LIVE LOAD: AASHTO HL-93 AND NYSDOT DESIGN PERMIT VEHICLE.
- 3. THE TEMPORARY STRUCTURE SHALL BE DESIGNED IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES FOR A DESIGN LOAD OF HS20.
- 4. CONSTRUCTION AND MATERIALS SPECIFICATIONS: STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED MAY 1, 2018, WITH CURRENT ADDITIONS AND
- 5. 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.
- 6. ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN US CUSTOMARY UNITS.
- 7. THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.21 - SELECT STRUCTURE FILL
- 8. THE COST OF ALL JOINT MATERIAL SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- 9. THE CONTRACTOR'S ATTENTION IS DIRECTED TO SUBSECTION 105-09, WORK AFFECTING RAILROADS, OF THE STANDARD SPECIFICATIONS.
- 10. THE LOAD RATINGS ARE IN ACCORDANCE WITH THE AASHTO MANUAL FOR BRIDGE EVALUATION - SECOND EDITION 2011 WITH CURRENT INTERIMS.
- 11. DIMENSIONS FOR THICKNESSES OF STEEL ROLLED ANGLE SHAPES AND STRUCTURAL TUBING ARE SHOWN ACCORDING TO THE AISC MANUAL.
- 12. THIS BRIDGE SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MAINTENANCE MANUAL: THE MAINTENANCE AND MANAGEMENT OF ROADWAYS AND BRIDGES.
- 13. NO ADDITIONAL PAYMENT WILL BE MADE FOR WORK CALLED FOR BY NOTES ON THE PLANS OR IN THE SPECIFICATIONS UNLESS PAYMENT IS SPECIFICALLY INDICATED BY ITEM NUMBER. THE COST OF WORK WHICH NO PAYMENT ITEMS IS INDICATED SHALL BE INCLUDED IN THE UNIT PRICES BID FOR VARIOUS ITEMS OF THIS CONTRACT.
- 14. UNLESS OTHERWISE INDICATED ON THE PLANS, WORK TO BE PERFORMED UNDER THIS CONTRACT DOES NOT REQUIRE THE DISTURBING, DESTRUCTION OR REMOVAL OF ANY KNOWN MATERIALS CONTAINING ASBESTOS.
- ALL KNOWN PUBLIC AND PRIVATE UTILITIES WITHIN OR ADJACENT TO THE SITE ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ON THE CONTRACT PLANS. THE CONTRACTOR SHALL VERIFY THE UTILITY INFORMATION FOUND ON THE PLANS AND COORDINATE THEIR ACTIVITIES WITH THE VARIOUS UTILITY OWNERS INVOLVED.
- 16. "BUY AMERICAN" REQUIREMENTS FOR STEEL PRODUCTS ARE WAIVED FOR THIS PROJECT.

FOUNDATION NOTES

8-10-2018

NEW YORK

KR LAIST

Professional

- A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THIS PROJECT AND IS INCLUDED IN THE CONTRACT PROPOSAL BOOK. SUBSURFACE EXPLORATIONS HAVE BEEN MADE FOR THIS PROJECT AT THE LOCATIONS INDICATED ON THE PLANS. SOIL BORING LOGS ARE PROVIDED ON DRAWING NO.'S GEO-01 TO GEO-03.
- THE FOOTINGS FOR THE ABUTMENTS AND WINGWALLS HAVE BEEN DESIGNED TO EXERT A MAXIMUM PRESSURE OF 6,000 PSF AT THE STRENGTH LIMIT STATE AND 3,000 PSF AT THE SERVICE LIMIT STATE.

ALTERED BY:

SUBSTRUCTURE NOTES

- ALL PLACEMENTS OF SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.
- 2. HIGHWAY EMBANKMENT MATERIAL (FROM HIGHWAY ESTIMATE OR FROM STRUCTURE EXCAVATION BACKFILL) AND SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE PLACED SIMULTANEOUSLY, IN CONTACT, ON BOTH SIDES OF THE VERTICAL PAYMENT LINE.
- 3. THE CONTRACTOR, WITH THE PERMISSION OF THE ENGINEER, MAY FLECT TO INTRODUCE CONSTRUCTION JOINTS IN THE ABUTMENTS AT LOCATIONS NOT SHOWN ON THE PLANS.
 THESE CONSTRUCTION JOINTS SHALL BE PROVIDED WITH SHEAR KEYS AND WATERSTOPS.
 VERTICAL CONSTRUCTION JOINTS INTRODUCED IN THE BACKWALL SHOULD PREFERABLY BE PLACED MIDWAY BETWEEN THE GIRDER CENTERLINES.
- 4. EXCAVATION BELOW PLANNED FOOTING ELEVATIONS WILL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER, BACKFILL OF UNAUTHORIZED EXCAVATIONS BELOW OR BEYOND PAYMENT LINES WILL BE AT THE CONTRACTOR'S EXPENSE. BACKFILL MATERIAL WILL BE AS DIRECTED BY THE ENGINEER.

COFFERDAM AND HYDRAULIC NOTES

- 1. SHOULD THE CONTRACTOR ELECT TO LAY BACK A PORTION OF THE EXISTING EARTH ADJACENT TO AN EXCAVATION REQUIRING A COFFERDAM, ANY REQUIRED EXTENSIONS OF THE COFFERDAM NECESSARY TO KEEP WATER FROM ENTERING THE EXCAVATION SHALL BE FURNISHED AND PLACED AT NO COST TO THE COUNTY.
- 2. WHERE A COFFERDAM IS USED, THE COST OF DEWATERING THE ENTIRE EXCAVATION, RECARDLESS OF SOURCE OF WATER, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE COFFERDAM ITEM.
- 3. SHOULD FIELD CONDITIONS REQUIRE A CHANGE FROM THE TYPE OF COFFERDAM SYSTEM CALLED FOR ON THE PLANS, THE ENGINEER-IN-CHARGE SHALL CONTACT THE ENGINEER FOR COORDINATION WITH APPROPRIATE AGENCIES TO APPROVE THE CHANGE.
- 4. DEWATERING OF THE COFFERDAM SHALL BE ACCOMPLISHED BY PUMPING THE WATER TO AN APPROVED UPLAND VEGETATED AREA OUTSIDE OF THE STREAMBED AS SHOWN ON THE PLANS AND/OR APPROVED BY THE E.I.C. TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL. SUCH AS STRAW BALES OR APPROVED EQUAL, MAY BE REQUIRED AS
- 5. THE CONTRACTOR SHALL HAVE THE OPTION OF INSTALLING A SEPARATE COFFERDAM OR INCORPORATING THE PERMANENT SHEETING INTO THE COFFERDAM ITEM.
- 6. IF THE CONTRACTOR ELECTS TO INCORPORATE THE PERMANENT SHEETING IN THE COFFERDAM ITEM, THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ANY ADDITIONAL BRACING REQUIRED TO STRENGTHEN THE PERMANENT SHEETING SYSTEM AND PROVIDE ANY WORK NECESSARY TO RETURN THE PERMANENT SHEETING TO ITS INTENDED
- ORDINARY HIGH WATER IS ESTIMATED TO BE 1544.9. 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.
- 8. ORDINARY WATER IS ESTIMATED TO BE 1544.0 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
- 9. LOW WATER IS ESTIMATED TO BE 1542.O. 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.

REMOVAL NOTES

- 1. THE EXISTING BRIDGE SHALL BE REMOVED UNDER ITEM C202.1301 IN THE BRIDGE
- 2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF SUBSECTION 202-3.01 GENERAL AND SAFETY REQUIREMENTS. A REMOVAL PLAN, SIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK, SHALL BE SUBMITTED TO THE ENGINEER THIRTY (30) DAYS PRIOR TO BEGINNING THE DEMOLITION.
- 3. RECORD PLANS FOR THIS STRUCTURE ARE AVAILABLE AT THE COUNTY OF CATTARAUGUS
- 4. LIMITS AND METHODS FOR REMOVAL OF PAINT AT LOCATIONS OF FASTENER REMOVAL OR FLAME CUTTING SHALL BE AS DESCRIBED IN SUBSECTIONS 202-3.05 AND 574 OF THE STANDARD SPECIFICATIONS. THE COST OF PAINT REMOVAL SHALL BE INCLUDED IN THE LUMP SUM PRICE(S) BID FOR THE SUPERSTRUCTURE REMOVAL ITEM(S) (OR THE UNIT PRICE BID FOR THE SUBSTRUCTURE REMOVAL ITEM). PAINT WASTE NOT COLLECTED BY VACUUM METHODS SHALL BE COLLECTED USING THE ENVIRONMENTAL GROUND AND/OR WATERWAY PROTECTION ITEM(S). WASTE SHALL BE DISPOSED OF USING THE TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE ITEM.
- 5. REFER TO SUBSECTION 107-05 OF THE STANDARD SPECIFICATIONS FOR SAFETY AND HEALTH REQUIREMENTS.
- SPECIAL PROVISIONS ARE REQUIRED FOR THE REMOVAL OF THE CENTER PIER. SEE NOTE 18 ON DRAWING NO. ECP-01 FOR DETAILS.

SUPERSTRUCTURE NOTES

- 1. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A709 GRADE 50.
- 2. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PROVISIONS OF THE CURRENT SPECIFICATIONS FOR SUPERSTRUCTURE SLABS, WHICH ALLOW THE OPTION OF 3 FORMING SYSTEMS FOR THE UNDERSIDE OF THE SLABS, HOWEVER, ON THIS BRIDGE, ONLY THE FOLLOWING OPTION WILL BE PERMITTED: REMOVABLE FORMS.
- 3. NO DEVIATIONS FROM THE HAUNCH DETAILS SHOWN ON THESE PLANS MAY BE MADE WITHOUT THE PERMISSION OF THE ENGINEER.
- 4. FOR THE LUMP SUM STRUCTURAL STEEL ITEM IN THE CONTRACT, THE "TOTAL WEIGHT FOR PROGRESS PAYMENT" IS AS FOLLOWS:

TOTAL WEIGHT FOR PROGRESS PAYMENT

THESE WEIGHTS SHALL BE USED IN DETERMINING PARTIAL PAYMENTS AND PROGRESS. UNDER NO CIRCUMSTANCES SHALL THE "TOTAL WEIGHT FOR PROGRESS PAYMENT" BE USED FOR FINAL PAYMENT PURPOSES. THE CONTRACTOR IS ADVISED NOT TO USE THE "TOTAL WEIGHT FOR PROGRESS PAYMENT" AS A BIDDING TOOL. DISCREPANCIES WHICH MAY OCCUR BETWEEN THE TOTAL WEIGHT SHIPPED AND "TOTAL WEIGHT FOR PROGRESS PAYMENT" SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION.

- 6. DIAPHRAGMS SHALL BE FABRICATED TO FIT GIRDERS ERECTED WITH THEIR WEBS PLUMB UNDER FULL DEAD LOAD CONDITIONS, ALSO KNOWN AS TOTAL DEAD LOAD FIT (TDLF).
- 7. SHOP DRAWING SUBMITTALS ARE REQUIRED FOR THE FOLLOWING BRIDGE RAIL/TRANSITION ITEMS: 568.51 AND 568.70.
- 8. TOP SURFACES OF NEW BRIDGE DECKS AND APPROACH SLABS SHALL BE SEALED ACCORDING TO ITEM 559.18960118 PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS.

STEEL ERECTION NOTES

- 1. THE CONTRACTOR SHALL PROVIDE FOR THE STABILITY OF STRUCTURAL STEEL DURING ALL PHASES OF ERECTION AND CONSTRUCTION, AS PROVIDED IN SUBSECTION 204 OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM). THE METHODS USED BY THE CONTRACTOR SHALL BE DOCUMENTED ON THE ERECTION DRAWINGS WITH ALL SUPPORTING STABILITY CALCULATIONS SUBMITTED AND STAMPED BY A LICENSED NEW YORK STATE PROFESSIONAL ENGINEER AND SUBMITTED TO THE ENGINEER IN ACCORDANCE WITH THE
- 2. THE DESIGN OF THIS STRUCTURE ASSUMES THAT THE STRUCTURAL STEEL IS COMPLETELY ERECTED BEFORE IT IS ALLOWED TO DEFLECT UNDER ITS OWN DEAD LOAD. DEFLECTIONS INCURRED DURING THE VARIOUS STAGES OF THE ERECTION METHOD ARE DEFLECTIONS INCORRED DURING THE VARIOUS STAGES OF THE ERECTION METHOD ARE NOT CONSIDERED, THEREFORE, THE ACTUAL ERECTION METHODS AND SEQUENCES EMPLOYED BY THE CONTRACTOR MAY HAVE A SUBSTANTIAL EFFECT ON THE FINAL STEEL PROFILE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ALL NECESSARY COMPENSATORY ACTION TO ENSURE THAT THE FINAL ALIGNMENT AND PROFILE OF THE ERECTED STEEL CONFORMS TO SUBSECTION 1213, 1214, AND 1215 OF THE NEW YORK STATE STEEL CONSTRUCTION MANUAL (SCM), ANY CORRECTIVE WORK NECESSARY TO RE-POSITION PREVIOUSLY ERECTED STEEL TO ACHIEVE ACCEPTABLE ALIGNMENT AND PROFILE MUST BE APPROVED BY THE ENGINEER, AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE COUNTY.

STREAM PROTECTION NOTES

- 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 NTAKE OR TEMPORARY DAM REQUIRED TO PROTECT AND MAINTAIN WATER RIGHTS AND TO SUSTAIN FISH LIFE DOWNSTREAM.
- 2. ISCHUA CREEK IS CLASSIFIED BY THE NYSDEC AS A PROTECTED C(T) STREAM INDICATING THAT IN-STREAM WORK WILL BE PROHIBITED BEGINNING OCTOBER 1 AND

GALVANIZING NOTES

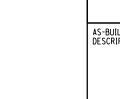
- ALL STRUCTURAL STEEL FABRICATED UNDER ITEM 564.0501 SHALL BE HOT DIPPED GALVANIZED UNDER ITEM 564.20010008 HOT-DIP GALVANIZING OF STRUCTURAL STEEL.
- ALL BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.
- GALVANIZING SHALL BE DONE PRIOR TO DRILLING OF HOLES OR AFTER SUB-SIZING. AFTER GALVANIZING, HOLES SHALL BE DRILLED OR REAMED FULL SIZE AS APPROPRIATE.
- 4. STUD SHEAR CONNECTORS SHALL BE WELDED PRIOR TO GALVANIZING.
- REASONABLE ACCOMMODATIONS FOR THE PREVENTION OF WET STORAGE STAINING (WHITE RUST) OF HOT-DIPPED GALVANIZED (HDG) MATERIALS SHALL BE PROVIDED AT ALL TIMES. STORAGE OF HDG MATERIALS OUTDOORS SHOULD BE AVOIDED IF POSSIBLE, STORAGE (OR SHIPPING) OF HDG MATERIALS IN CONTACT WITH ONE ANOTHER SHOULD BE AVOIDED. IF OUTDOOR STORAGE IS UNAVOIDABLE, EXAMPLES OF REASONABLE ACCOMMODATIONS ARE AS FOLLOWS: STORE MATERIALS OFF OF THE GROUND AWAY FROM ALL VEGETATION, USE AS FOLLOWS: STORE MATERIALS OFF OF THE GROUND AWAY FROM ALL VEGETATION, USE NON-RESINOUS WOODEN SPACERS TO ALLOW VENTILATION AND AVOID MOISTURE BUILD UP, INCLINE MEMBERS TO ALLOW DRAINAGE. EXAMPLES OF NON-RESINOUS WOODS ARE: POPLAR, ASH AND SPRUCE. WHITE RUST THAT IS DETERMINED TO BE DETRIMENTAL TO THE INTENDED USE OF THE MEMBER OR HAVE A NEGATIVE VISUAL IMPACT ON THE STRUCTURE WILL BE REPAIRED IN ACCORDANCE WITH THE NYS STEEL CONSTRUCTION MANUAL. WHITE RUST THAT IS DETERMINED TO BE CAUSED BY IMPROPER STORAGE OR SHIPPING OF HDG MATERIALS SHALL BE REPAIRED AT NO COST TO THE COUNTY.

RECONSTRUCTION NOTES

- 1. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT, DUE TO THE NATURE OF RECONSTRUCTION PROJECTS, THE EXACT EXTENT OF RECONSTRUCTION WORK CANNOT ALWAYS BE ACCURATELY DETERMINED PRIOR TO THE COMMENCEMENT OF WORK. THESE CONTRACT DOCUMENTS HAVE BEEN PREPARED BASED ON FIELD INSPECTION AND OTHER INFORMATION AVAILABLE AT THE TIME. ACTUAL FIELD CONDITIONS MAY REQUIRE MODIFICATIONS TO CONSTRUCTION DETAILS AND WORK QUANTITIES. THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH FIELD CONDITIONS.
- WHENEVER 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 PRICES BID FOR THOSE ITEMS.
- 3. DURING REMOVAL OPERATIONS, THE CONTRACTOR SHALL NOT BE ALLOWED TO 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 THE ENGINEER DETERMINES THAT ADEQUATE PROTECTIVE DEVICES ARE NOT BEING EMPLOYED, THE WORK SHALL BE SUSPENDED UNTIL ADEQUATE PROTECTION IS
- 4. 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 COUNTY.
- 5. THE COST OF FURNISHING, INSTALLING, MAINTAINING, REMOVING AND DISPOSING OF ALL PLATFORMS, NETS, SCREENS OR OTHER PROTECTIVE DEVICES SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE APPROPRIATE ITEMS OF THE CONTRACT.
- 6. THE EXISTING B.I.N. PLATE SHALL BE REMOVED, STORED AND REMOUNTED ON THE NEW BRIDGE SUBSTRUCTURE AFTER CONSTRUCTION IS COMPLETED. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF THE CONTRACT.

UTILITY RELOCATIONS

 THE APPROXIMATE LOCATION OF UTILITY POLES AT THE TIME OF DESIGN COMPLETION ARE SHOWN ON THE PLANS. UTILITY POLES IN CONFLICT WITH CONSTRUCTION ACTIVITIES WILL BE RELOCATED PRIOR TO THE CONTRACT BEING AWARDED.



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:

FRANKLINVILLE BRIDGE NO. 22 REPLACEMENT PROJECT FIVE MILE ROAD (C.R. 19) OVER ISCHUA CREEK TOWN OF FRANKLINVILLE

DATE ISSUED: AUG. 2018

BIN 3321400

CUL VERTS

BRIDGES

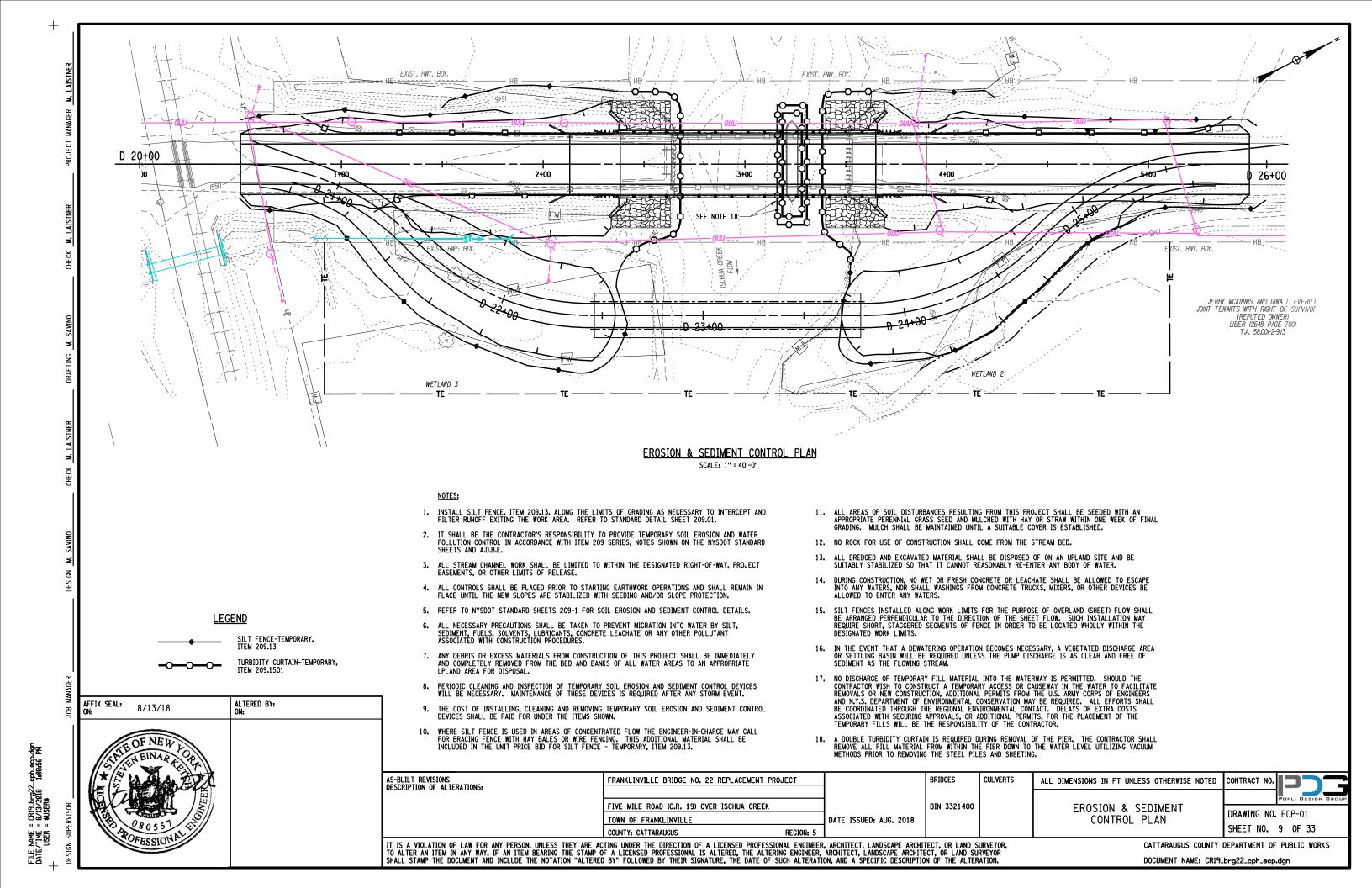
ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED

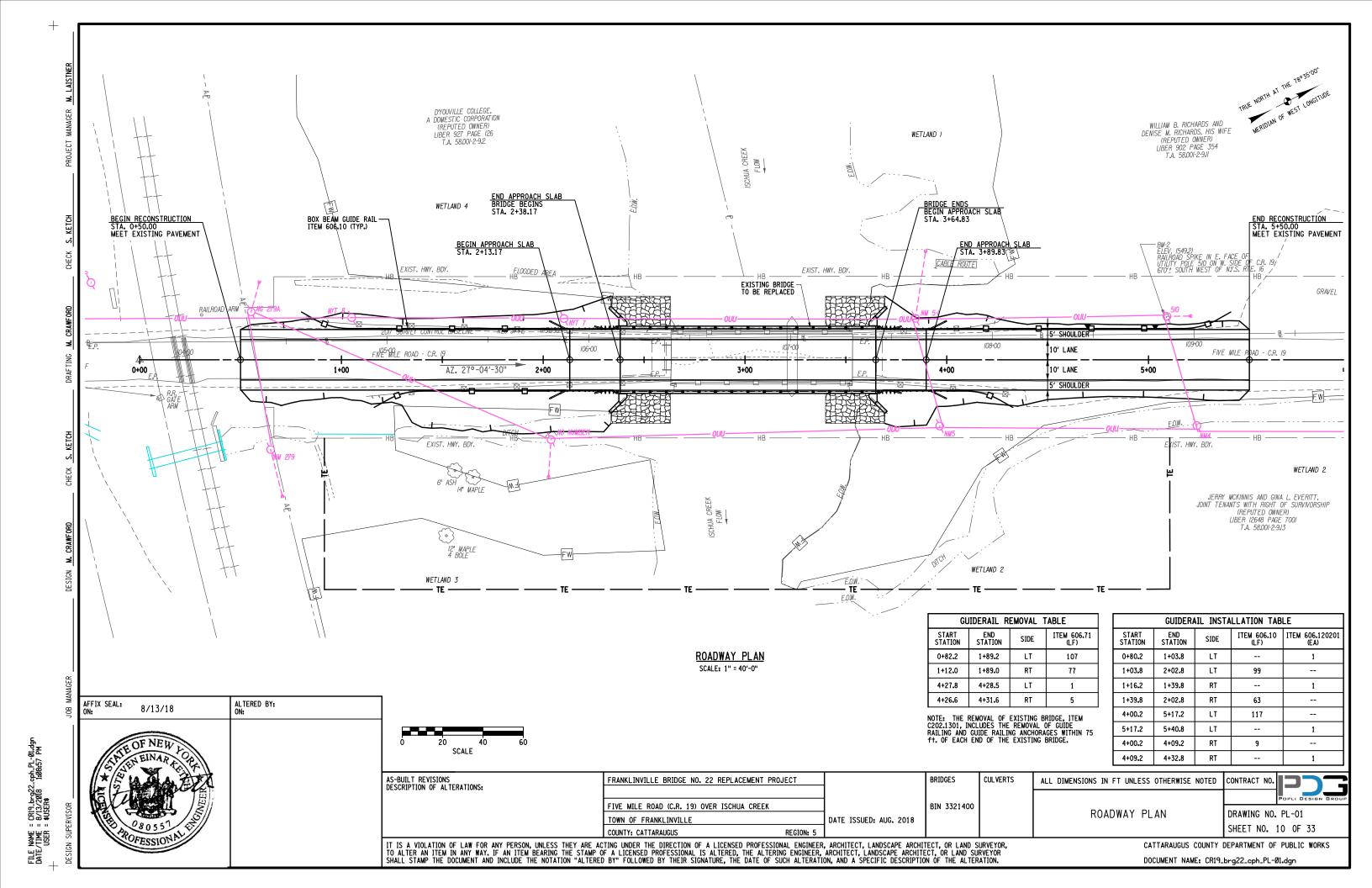
GENERAL NOTES

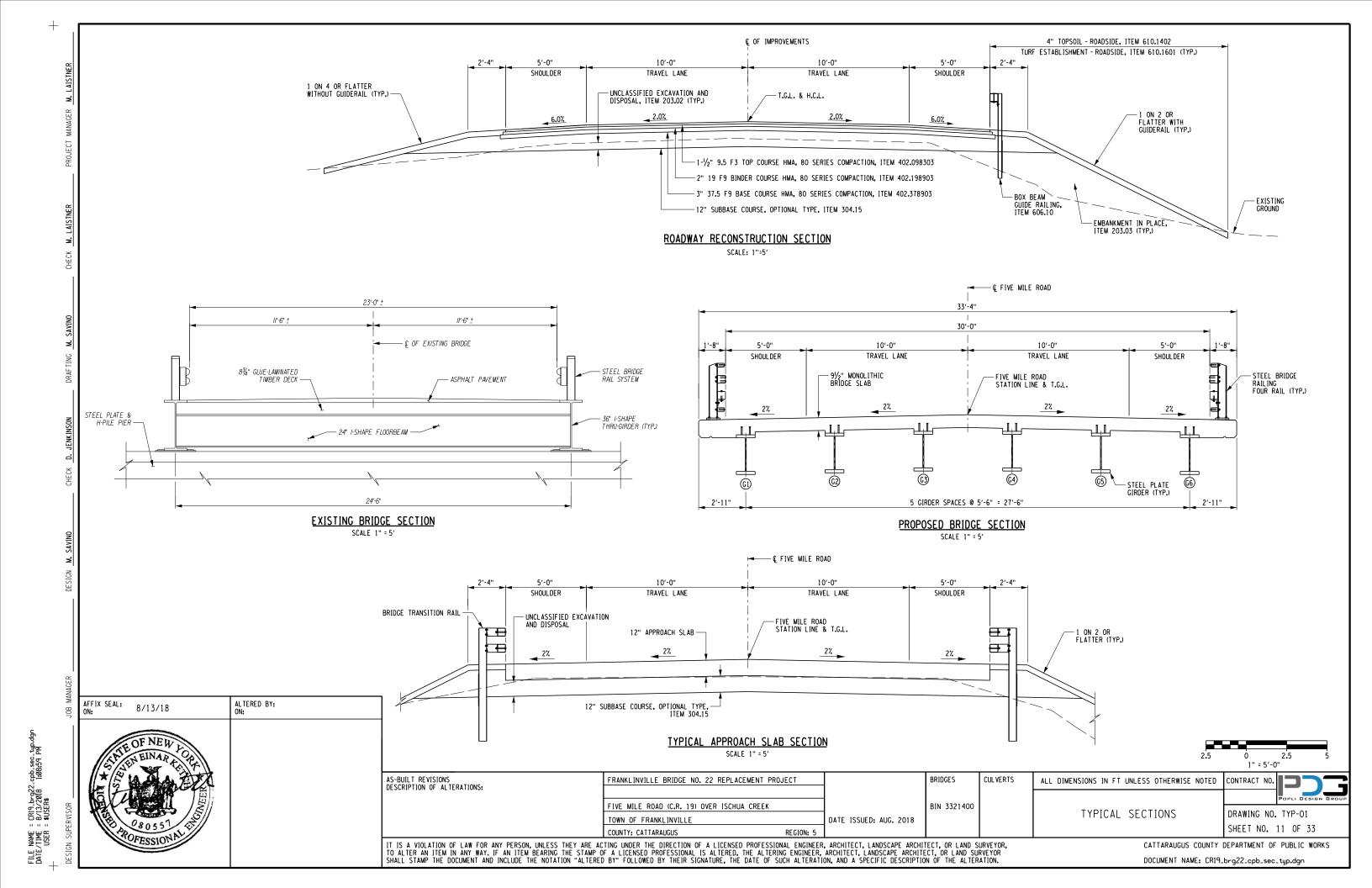
CONTRACT NO

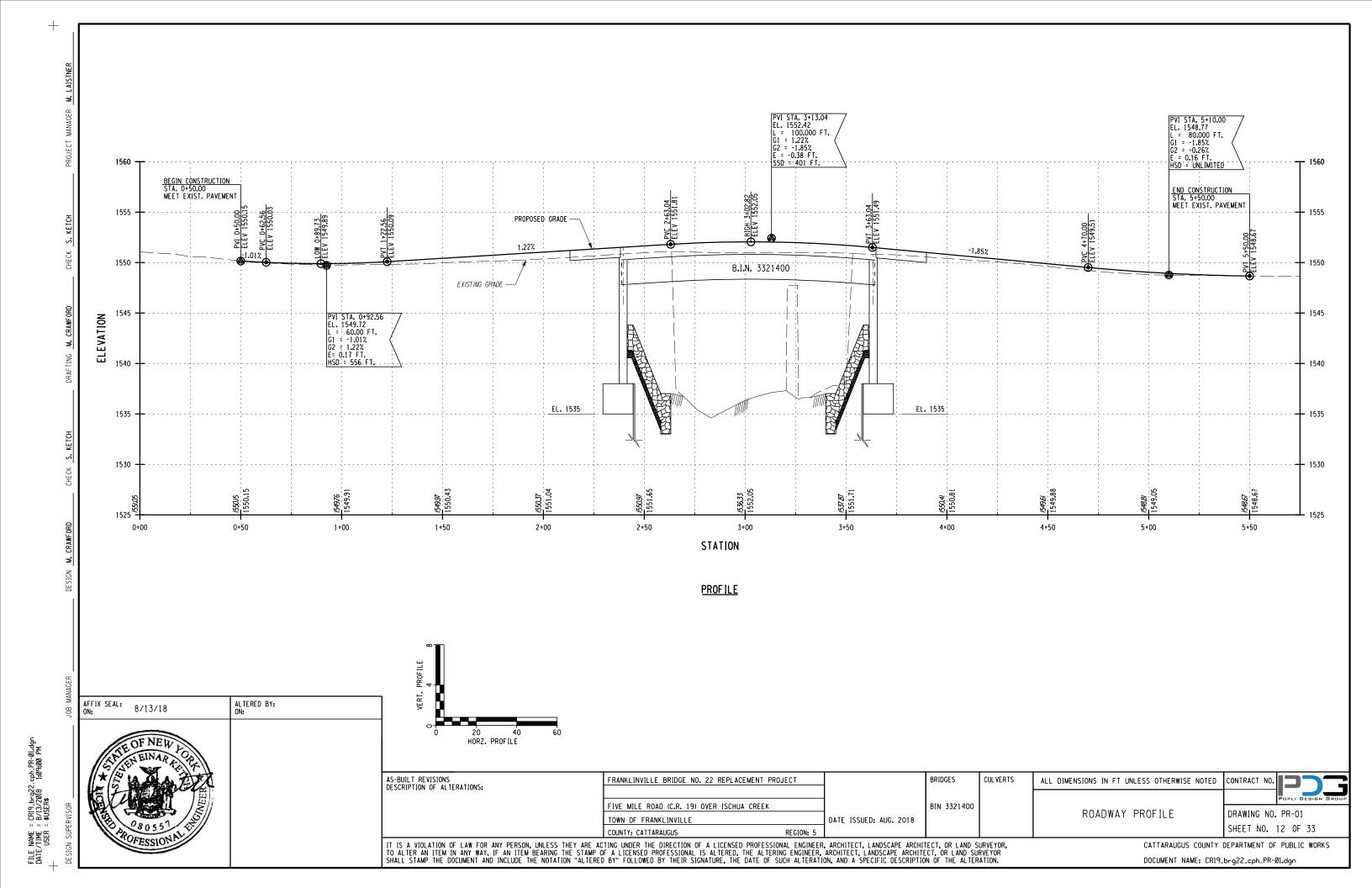
DRAWING NO. GN-01 SHEET NO. 8 OF 33

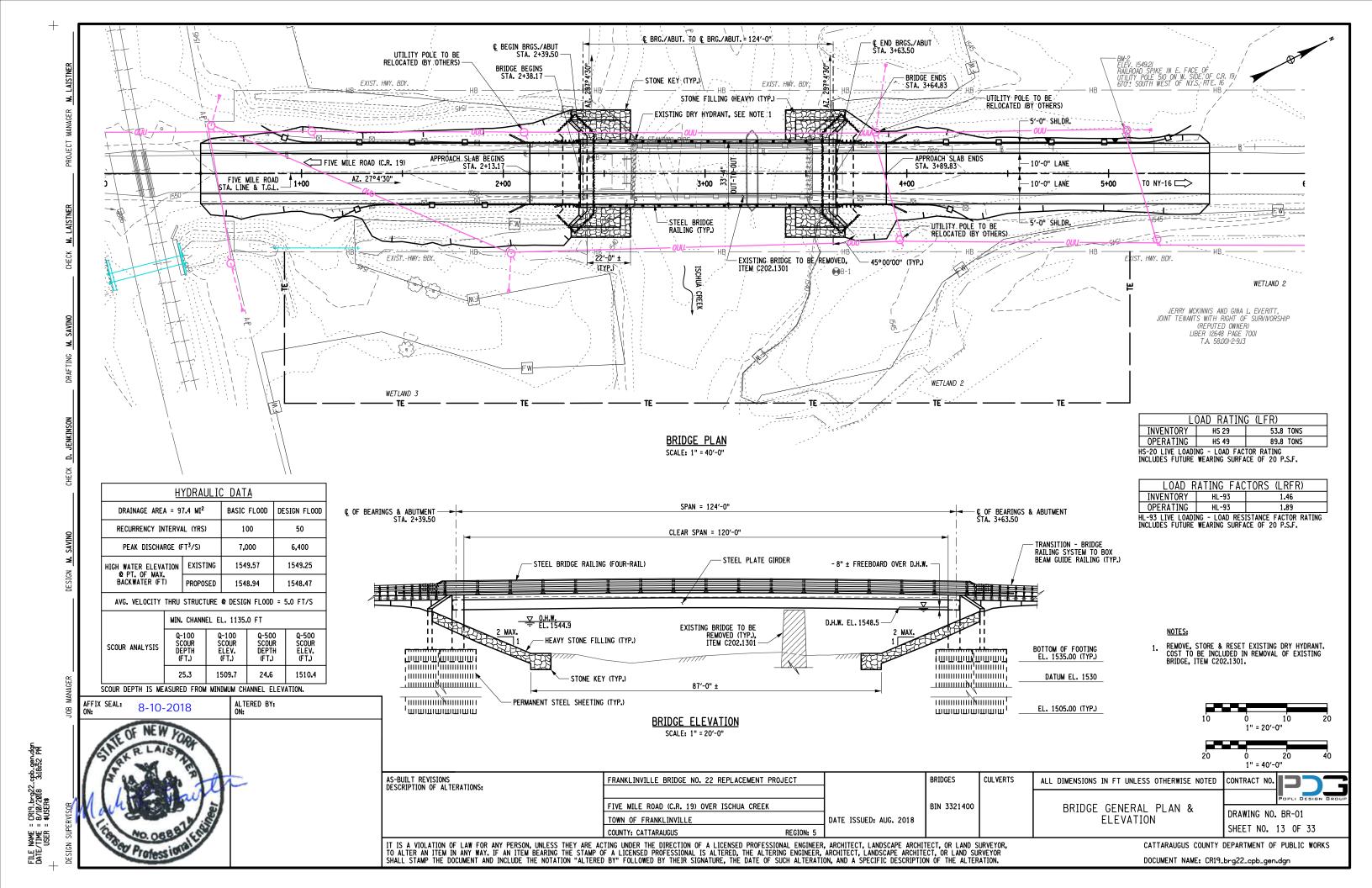
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT,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

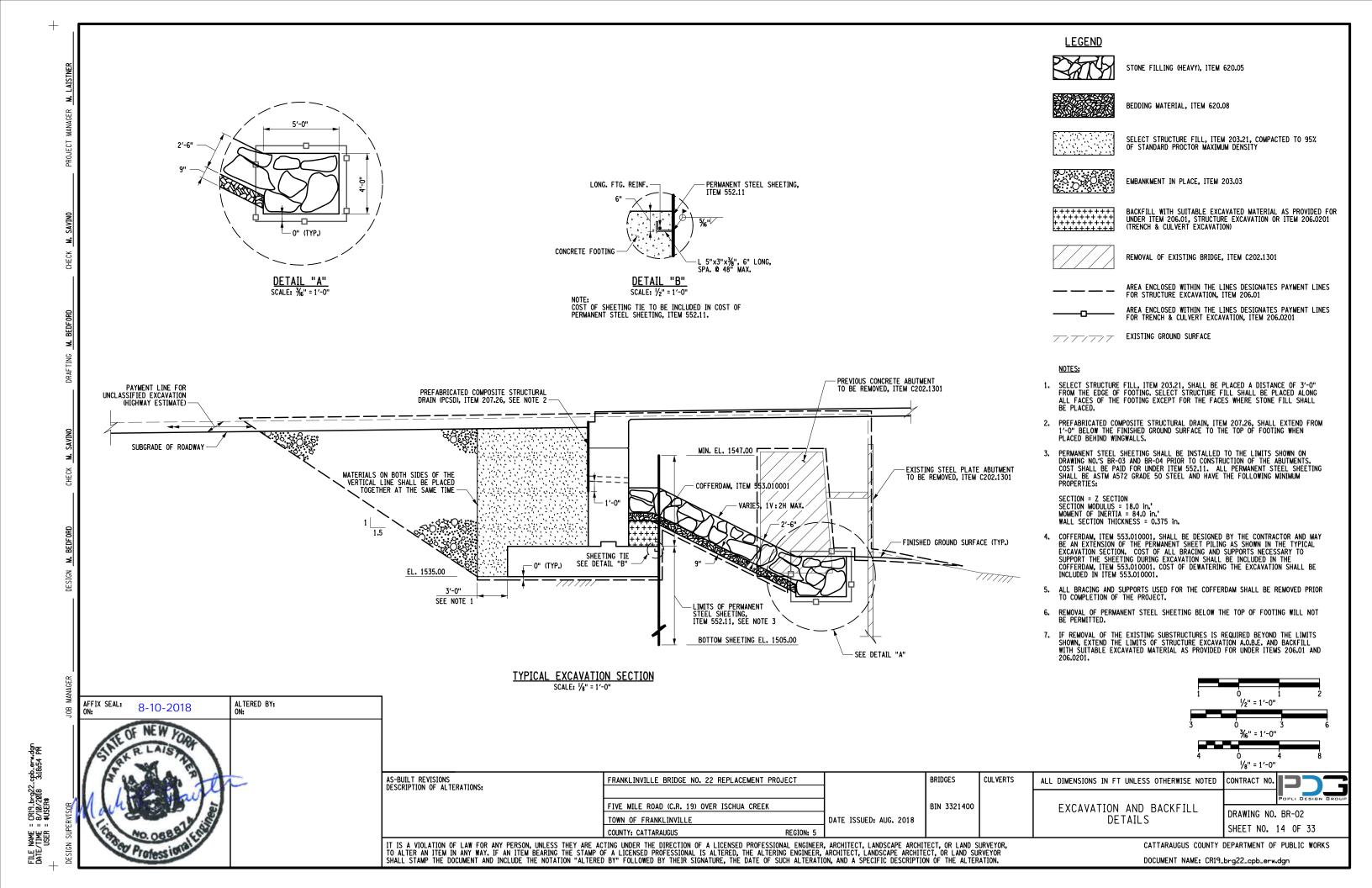


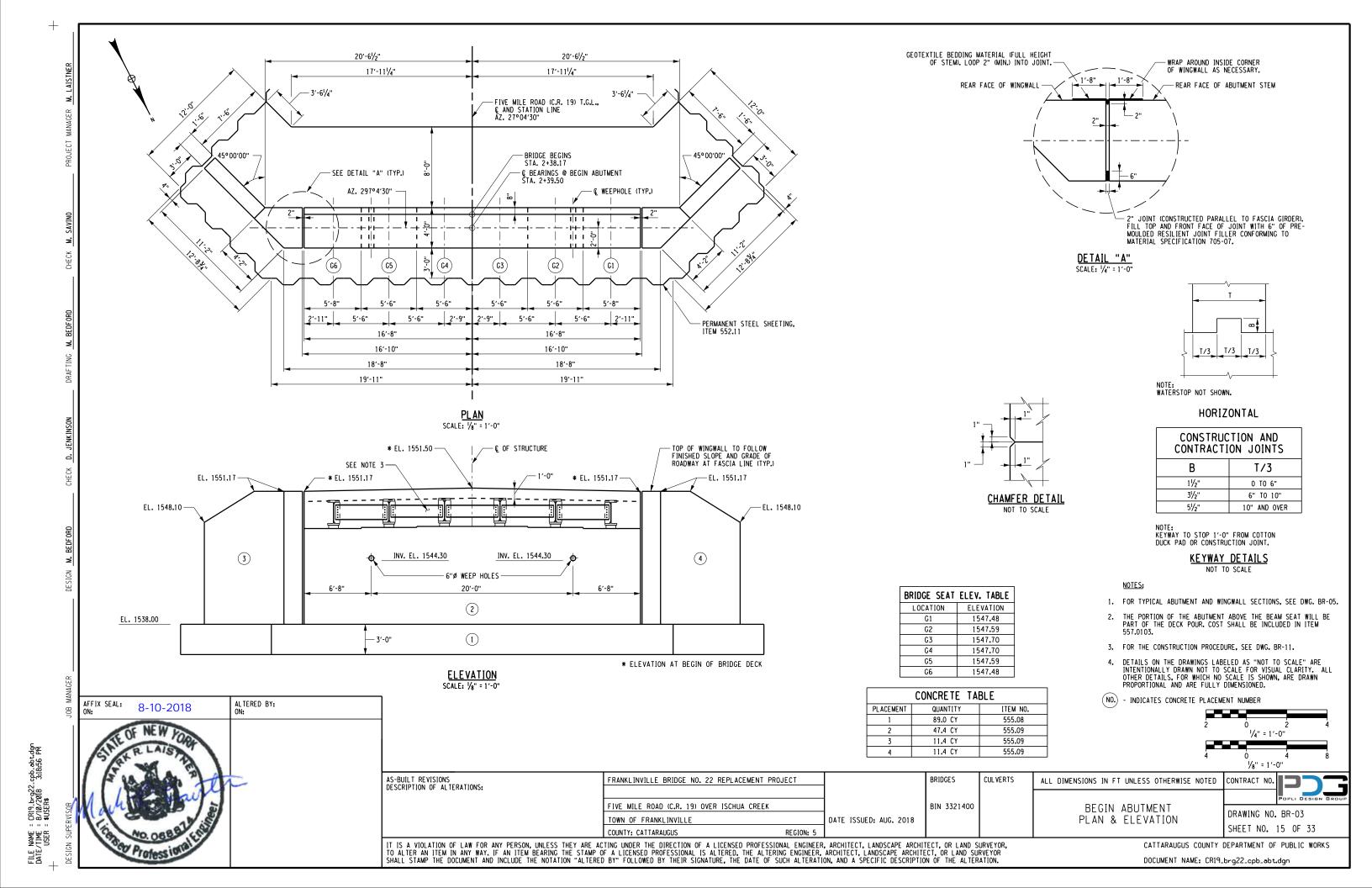


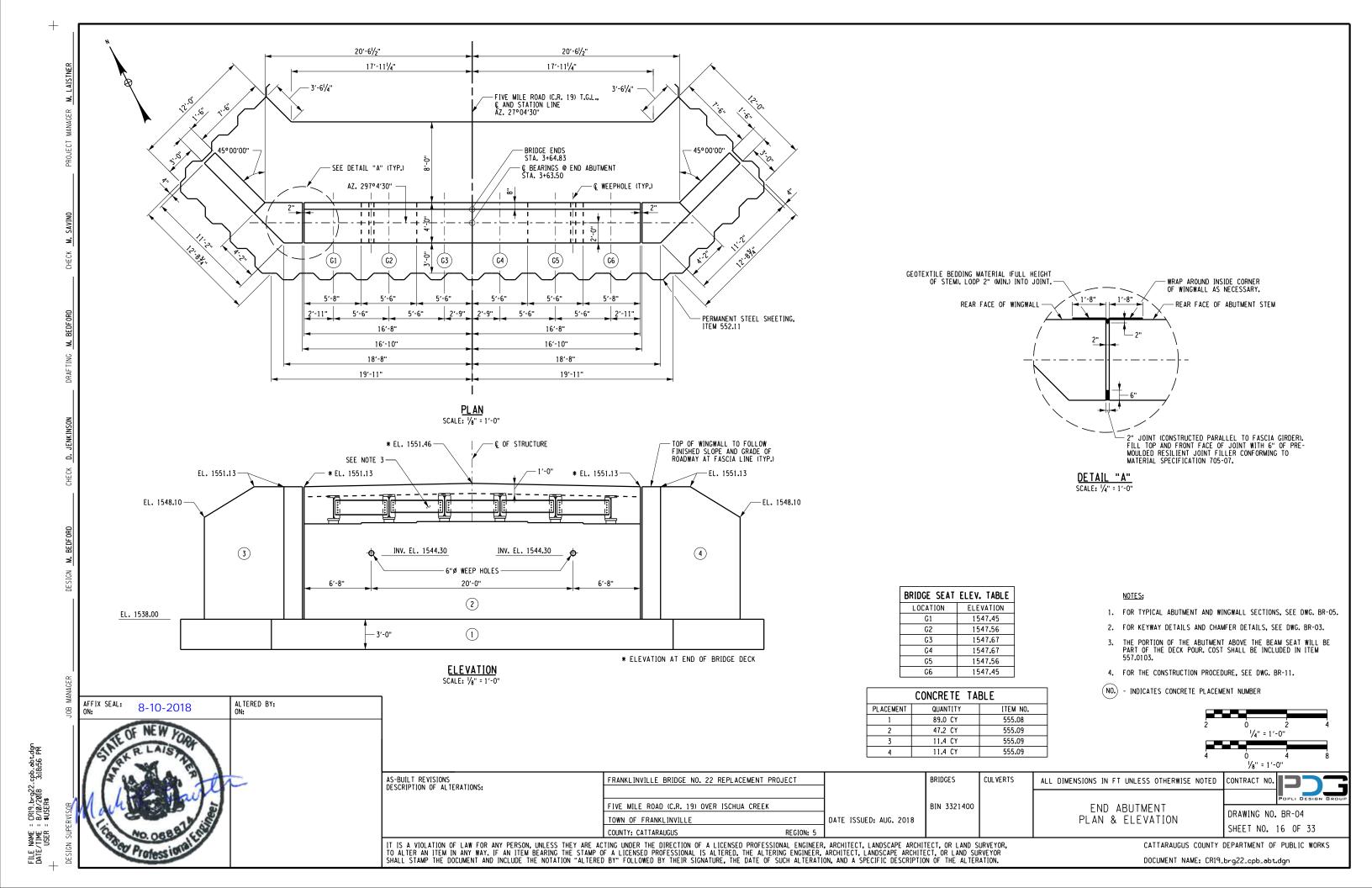


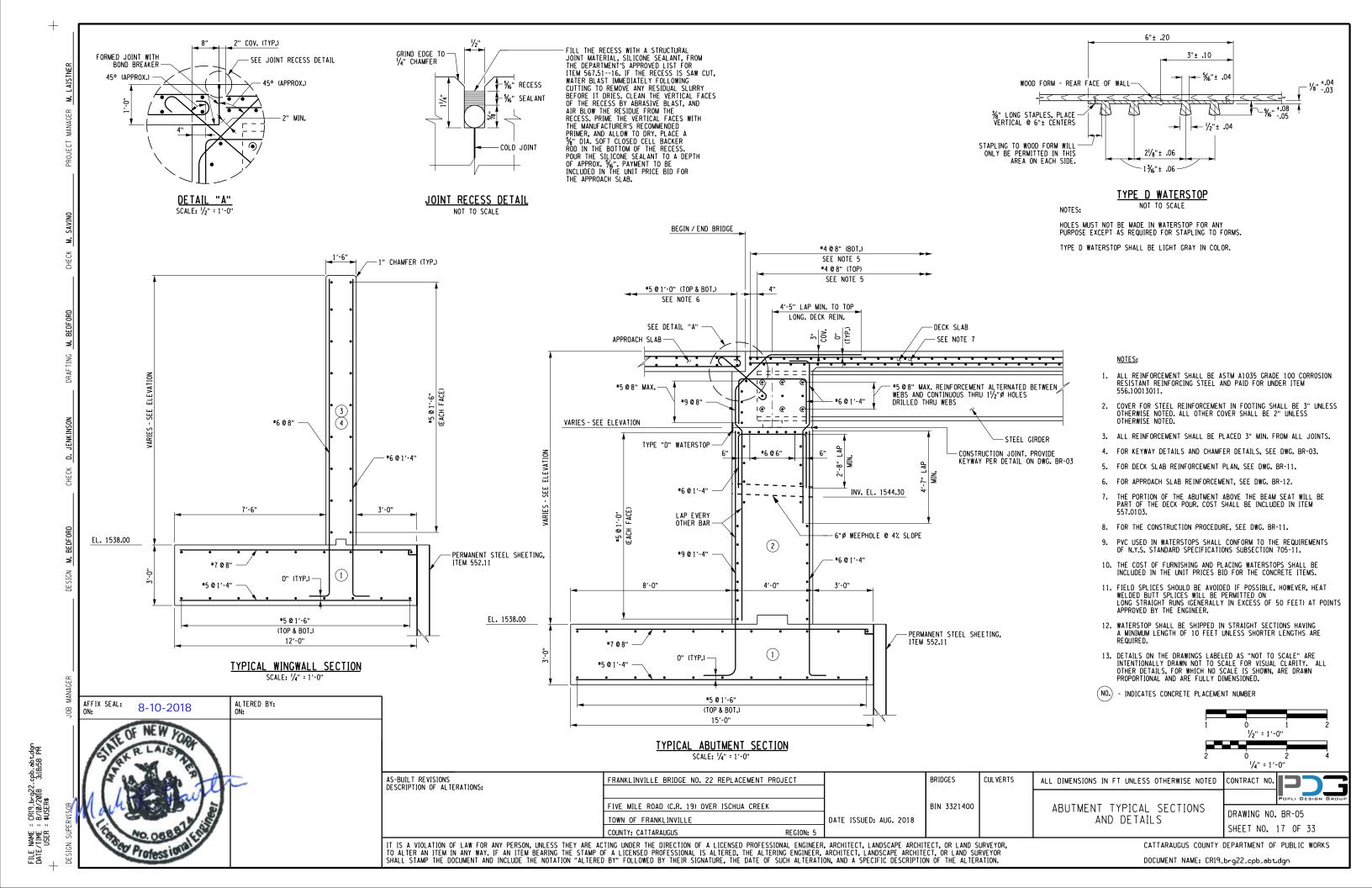


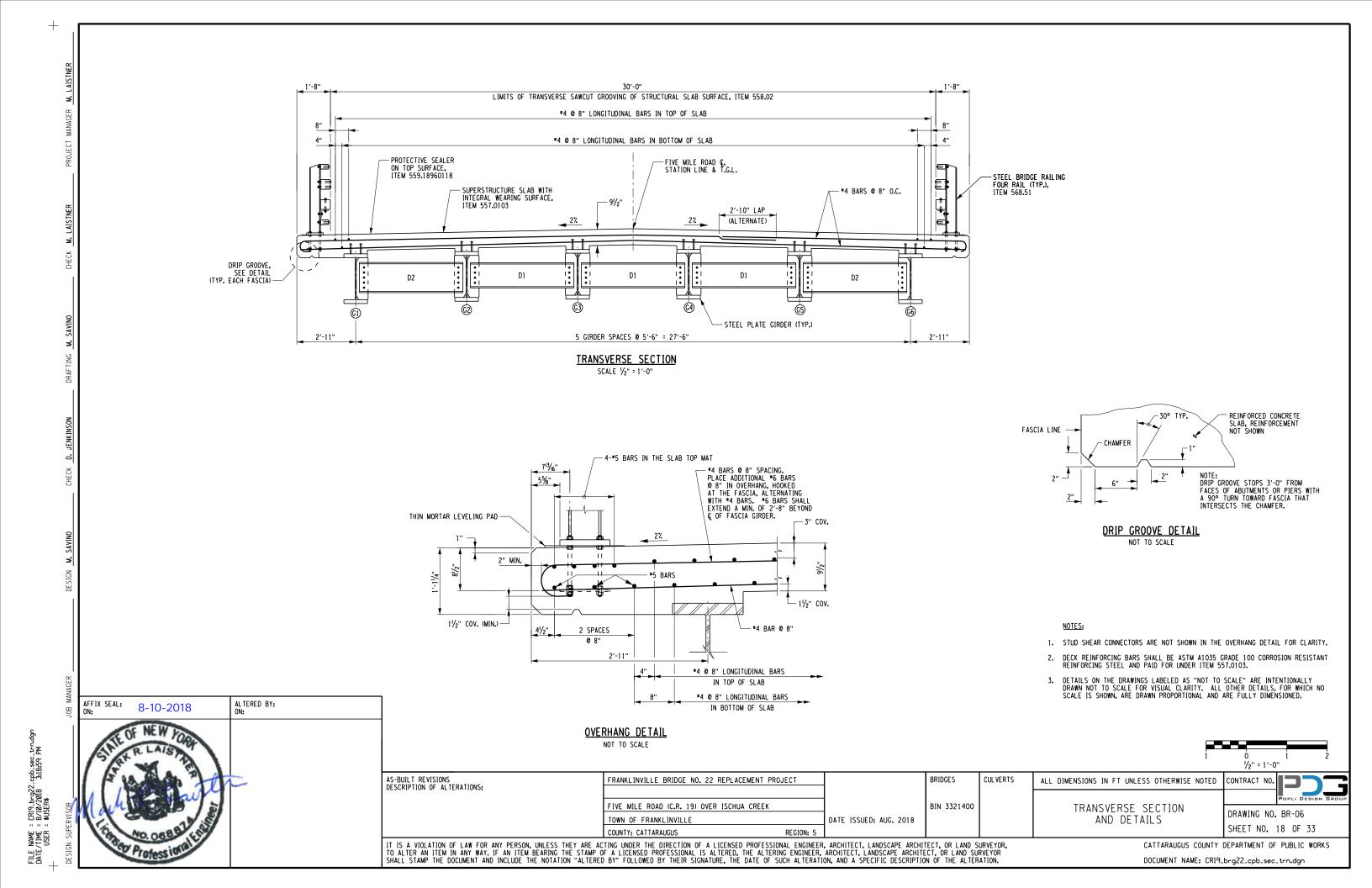


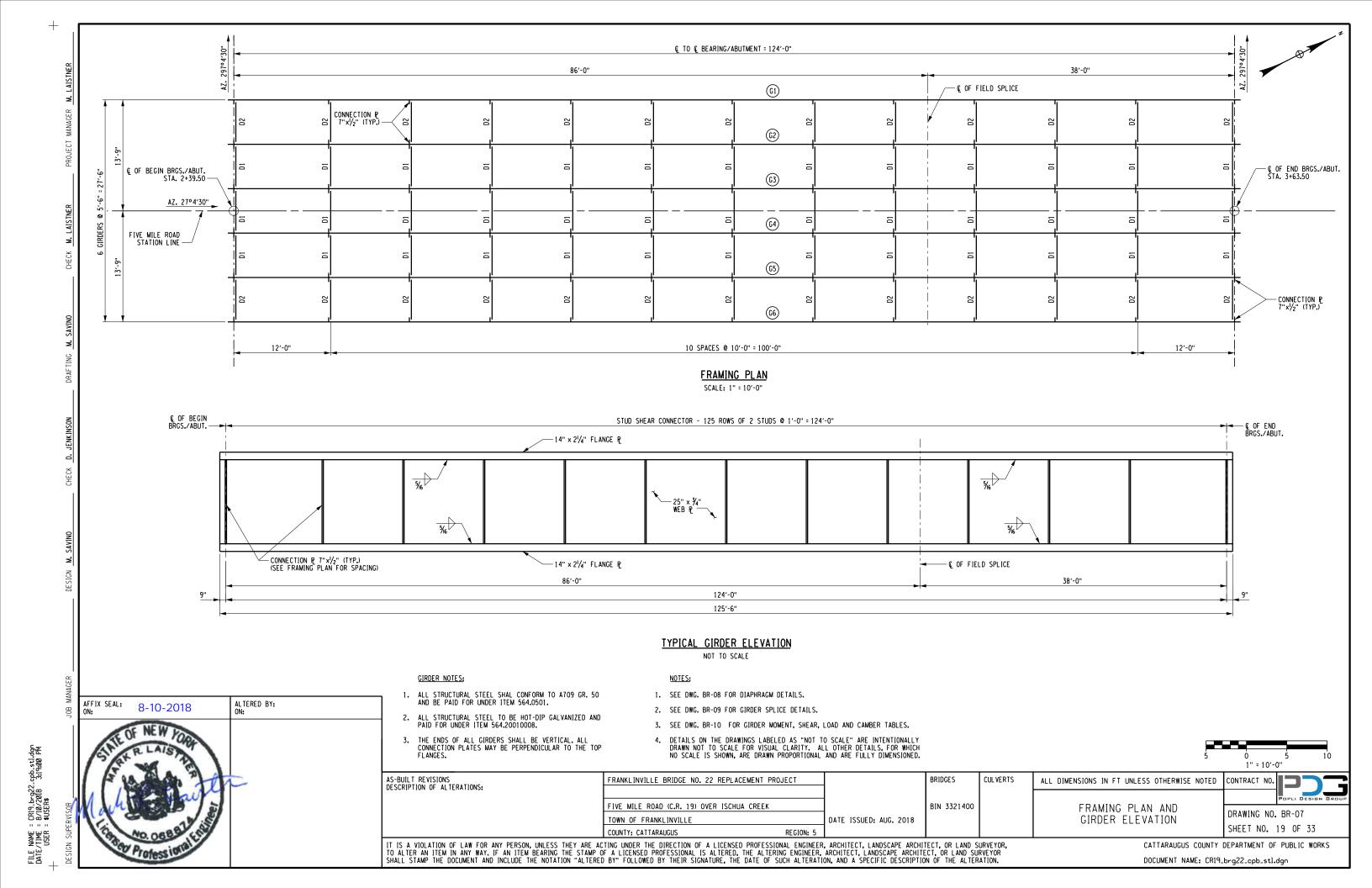


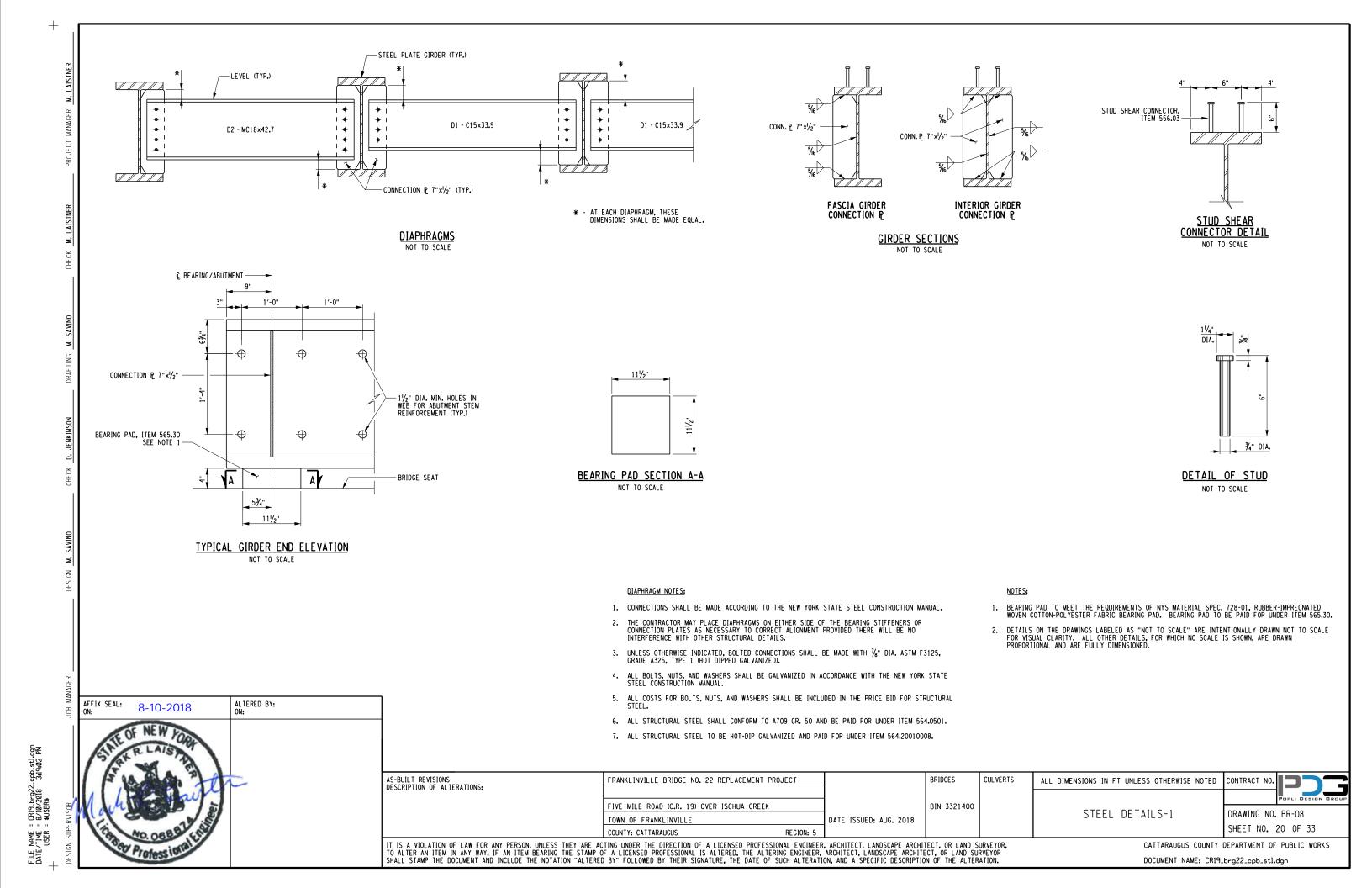


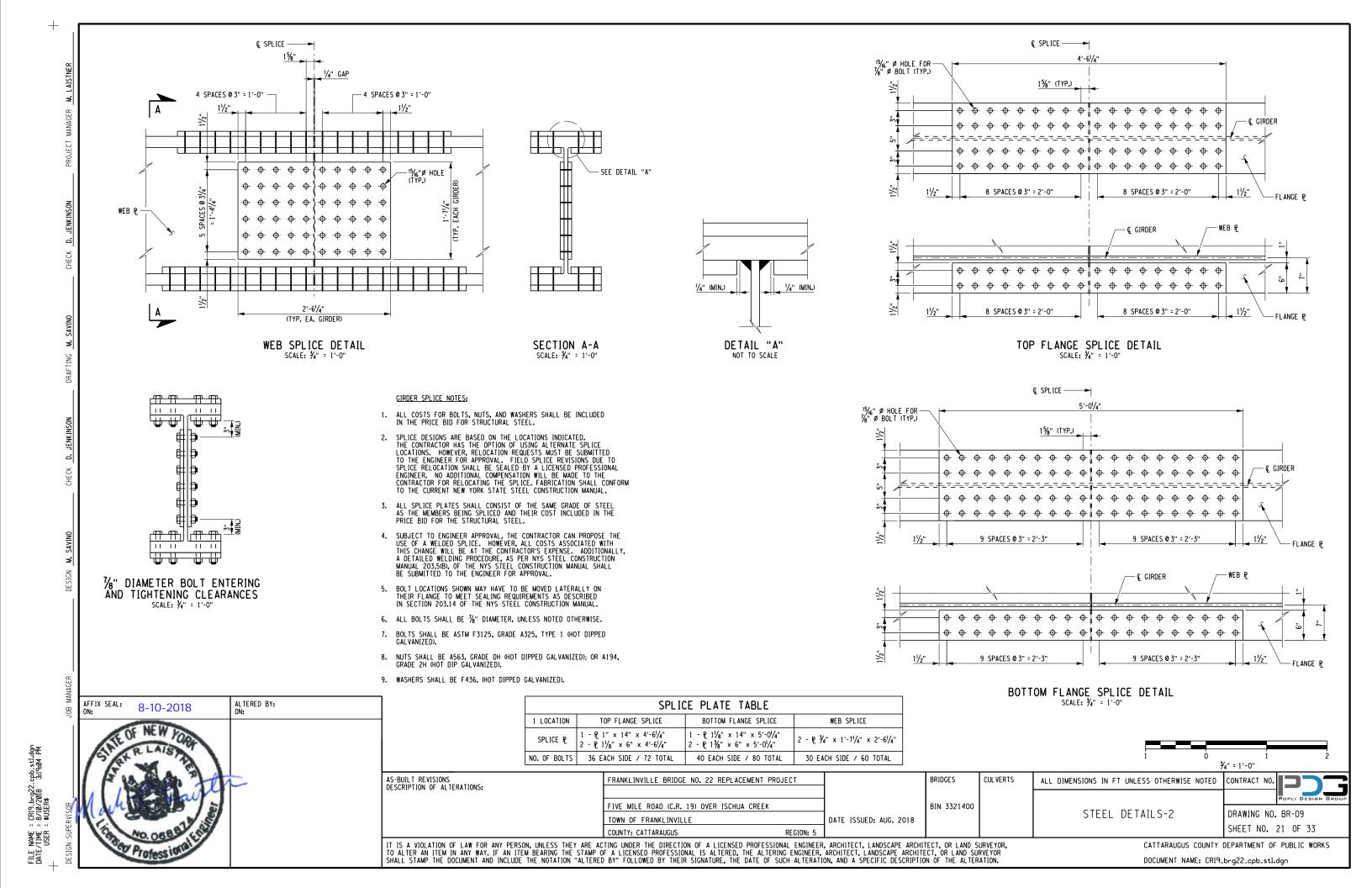












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	MOMENT SHEAR T		C.L. OF BRGS. BEGIN ABUT.	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	C.L. OF BRGS. END ABUT.
	DL	Moment	0.0	803.5	1428.4	1874.7	2142.6	2231.8	2142.6	1874.7	1428.4	803.5	0.0
	DL	Shear	72.0	57.6	43.2	37.2	14.4	0.0	-14.4	-28.8	-43.2	-57.6	-72.0
	SDL	Moment	-176.2	-77.9	-1.5	53.1	85.8	96.8	85.8	53.1	-1.5	-77.9	-176.2
	SDL	Shear	8.8	7.0	5.3	3.5	1.8	0.0	-1.8	-3.5	-5.3	-7.0	-8.8
1-6	HL-93 (+)	Moment	0.0	0.0	269.4	522.1	672.3	724.6	672.3	522.1	269.4	0.0	0.0
Š	⊓L-93 (∓)	Shear	81.6	70.4	59.5	47.9	36.8	25.1	26.7	27.8	29.3	30.2	31.3
Girders	HL-93 (-)	Moment	-975.6	-533.0	-195.4	0.0	0.0	0.0	0.0	0.0	-195.4	-533.0	-975.6
ō	HL-93 (-)	Shear	-31.3	-30.2	-29.3	-27.8	-26.7	-25.1	-36.8	-47.9	-59.5	-70.4	-81.6
	D.P.V. (+)	Moment	0.0	165.7	479.4	848.7	1074.3	1150.2	1074.3	848.7	479.4	165.7	0.0
	D.P.V. (+)	Shear	140.6	122.9	106.1	87.6	70.5	52.1	70.5	87.6	106.1	122.9	140.6
	DDV ()	Moment	-1583.0	-937.1	-451.6	-131.7	-13.5	0.0	-13.5	-131.7	-451.6	-937.1	-1583.0
	D.P.V. (-)	Shear	-140.6	-122.9	-106.1	-87.6	-70.5	-52.1	-70.5	-87.6	-106.1	-122.9	-140.6

C	CAMBER TABLE	BRGS. BEGIN ABUT.	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	BRGS. END ABUT.
9	I) Steel DL (ft)	0.00	0.12	0.22	0.30	0.35	0.37	0.35	0.30	0.22	0.12	0.00
~ ∞	II) Concrete DL (ft)	0.00	0.32	0.61	0.84	0.98	1.03	0.98	0.84	0.61	0.32	0.00
ders	III) SDL (ft)	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.00
.⊆	IV) Vert Curve (ft)	0.00	0.15	0.31	0.44	0.52	0.55	0.54	0.47	0.36	0.20	0.00
Ö	V) I + II + III + IV (ft)	0.00	0.60	1.15	1.59	1.87	1.97	1.89	1.62	1.20	0.65	0.00
ın	I) Steel DL (ft)	0.00	0.13	0.24	0.33	0.38	0.40	0.38	0.33	0.24	0.13	0.00
2	II) Concrete DL (ft)	0.00	0.26	0.49	0.67	0.79	0.83	0.79	0.67	0.49	0.26	0.00
ders	III) SDL (ft)	0.00	0.00	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.00	0.00
.≞	IV) Vert Curve (ft)	0.00	0.15	0.31	0.44	0.52	0.55	0.54	0.47	0.36	0.20	0.00
O	V) + + + V (ft)	0.00	0.54	1.06	1.46	1.71	1.80	1.73	1.49	1.10	0.59	0.00

MOMENTS AND SHEARS ARE UNFACTORED MOMENTS ARE EXPRESSED AS KIP-FEET SHEARS ARE EXPRESSED AS KIPS D.P.V. = DESIGN PERMIT VEHICLE

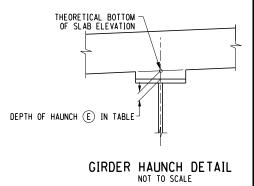
	HAUNCH TABLE	C.L. OF BRGS. BEGIN ABUT.	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	C.L. OF BRGS. END ABUT.
	A. REQ.D BOTTOM OF SLAB ELEVATION	1550.45	1550.60	1550.76	1550.88	1550.96	1550.99	1550.97	1550.90	1550.79	1550.63	1550.42
7	B. TOP OF STEEL EL. (FIELD MEASURE)											
Girder	C = A + B											
ত	D. CONCRETE + S.D.L. DEFLECTION	0.00	0.33	0.62	0.85	1.00	1.05	1.00	0.85	0.62	0.33	0.00
	E. DEPTH OF HAUNCH REQUIRED											
	A. REQ.D BOTTOM OF SLAB ELEVATION	1550.56	1550.71	1550.87	1550.99	1551.07	1551.10	1551.08	1551.01	1550.90	1550.74	1550.53
12	B. TOP OF STEEL EL. (FIELD MEASURE)											
Girder	C = A + B											
ত	D. CONCRETE + S.D.L. DEFLECTION	0.00	0.26	0.50	0.69	0.81	0.85	0.81	0.69	0.50	0.26	0.00
	E. DEPTH OF HAUNCH REQUIRED											
	A. REQ.D BOTTOM OF SLAB ELEVATION	1550.67	1550.82	1550.98	1551.10	1551.18	1551.21	1551.19	1551.12	1551.01	1550.85	1550.64
٦.	B. TOP OF STEEL EL. (FIELD MEASURE)											
Girder	C = A + B											
ত	D. CONCRETE + S.D.L. DEFLECTION	0.00	0.26	0.50	0.69	0.81	0.85	0.81	0.69	0.50	0.26	0.00
	E. DEPTH OF HAUNCH REQUIRED											
	A. REQ.D BOTTOM OF SLAB ELEVATION	1550.67	1550.82	1550.98	1551.10	1551.18	1551.21	1551.19	1551.12	1551.01	1550.85	1550.64
1 4	B. TOP OF STEEL EL. (FIELD MEASURE)											
Girder	C = A + B											
ত	D. CONCRETE + S.D.L. DEFLECTION	0.00	0.26	0.50	0.69	0.81	0.85	0.81	0.69	0.50	0.26	0.00
	E. DEPTH OF HAUNCH REQUIRED											
	A. REQ.D BOTTOM OF SLAB ELEVATION	1550.56	1550.71	1550.87	1550.99	1551.07	1551.10	1551.08	1551.01	1550.90	1550.74	1550.53
r 5	B. TOP OF STEEL EL. (FIELD MEASURE)											
Girder	C = A + B											
ত	D. CONCRETE + S.D.L. DEFLECTION	0.00	0.26	0.50	0.69	0.81	0.85	0.81	0.69	0.50	0.26	0.00
	E. DEPTH OF HAUNCH REQUIRED											
	A. REQ.D BOTTOM OF SLAB ELEVATION	1550.45	1550.60	1550.76	1550.88	1550.96	1550.99	1550.97	1550.90	1550.79	1550.63	1550.42
9 z	B. TOP OF STEEL EL. (FIELD MEASURE)											
Girder	C = A + B											
ত	D. CONCRETE + S.D.L. DEFLECTION	0.00	0.33	0.62	0.85	1.00	1.05	1.00	0.85	0.62	0.33	0.00
	E. DEPTH OF HAUNCH REQUIRED											

		DESIGN LOA	AD TABLE
		UNIT	LOAD K/ft.
		SLAB	0.819
		HAUNCH	0.036
		GIRDER	0.278
	D.L.	S.I.P. FORMS	0.000
9	Ġ	DIAPHRAGMS	0.013
18		UTILITIES	0.000
ers			
Girders 1 & 6		TOTAL	1.146
Ö		SIDEWALK	0.000
	نـ	RAILING	0.028
	S.D.L.	FUTURE W.S.	0.113
	ဟ		
		TOTAL	0.141

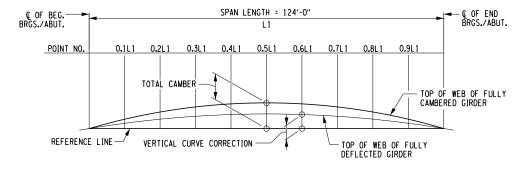
ASSUMED LIVE LOAD = HL-93 AND NYSDOT PERMIT VEHICLE FOR LRFD

		DESIGN LOA	DESIGN LOAD TABLE					
		UNIT	LOAD K/ft.					
		SLAB	0.653					
		HAUNCH	0.036					
		GIRDER	0.278					
	D.L.	S.I.P. FORMS	0.000					
3	Ġ	DIAPHRAGMS	0.023					
Girders 2 -		UTILITIES	0.000					
ers								
ᆵ		TOTAL	0.99					
Ø		SIDEWALK	0.000					
	ند	RAILING	0.028					
	S.D.L.	FUTURE W.S.	0.113					
	\ v							
		TOTAL	0.141					

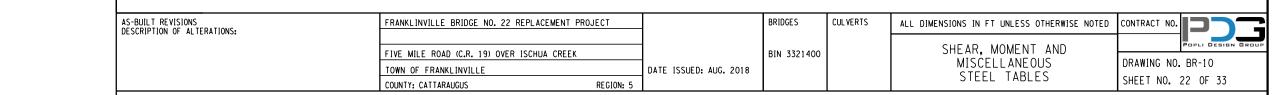
ASSUMED LIVE LOAD = HL-93 AND NYSDOT PERMIT VEHICLE FOR LRFD



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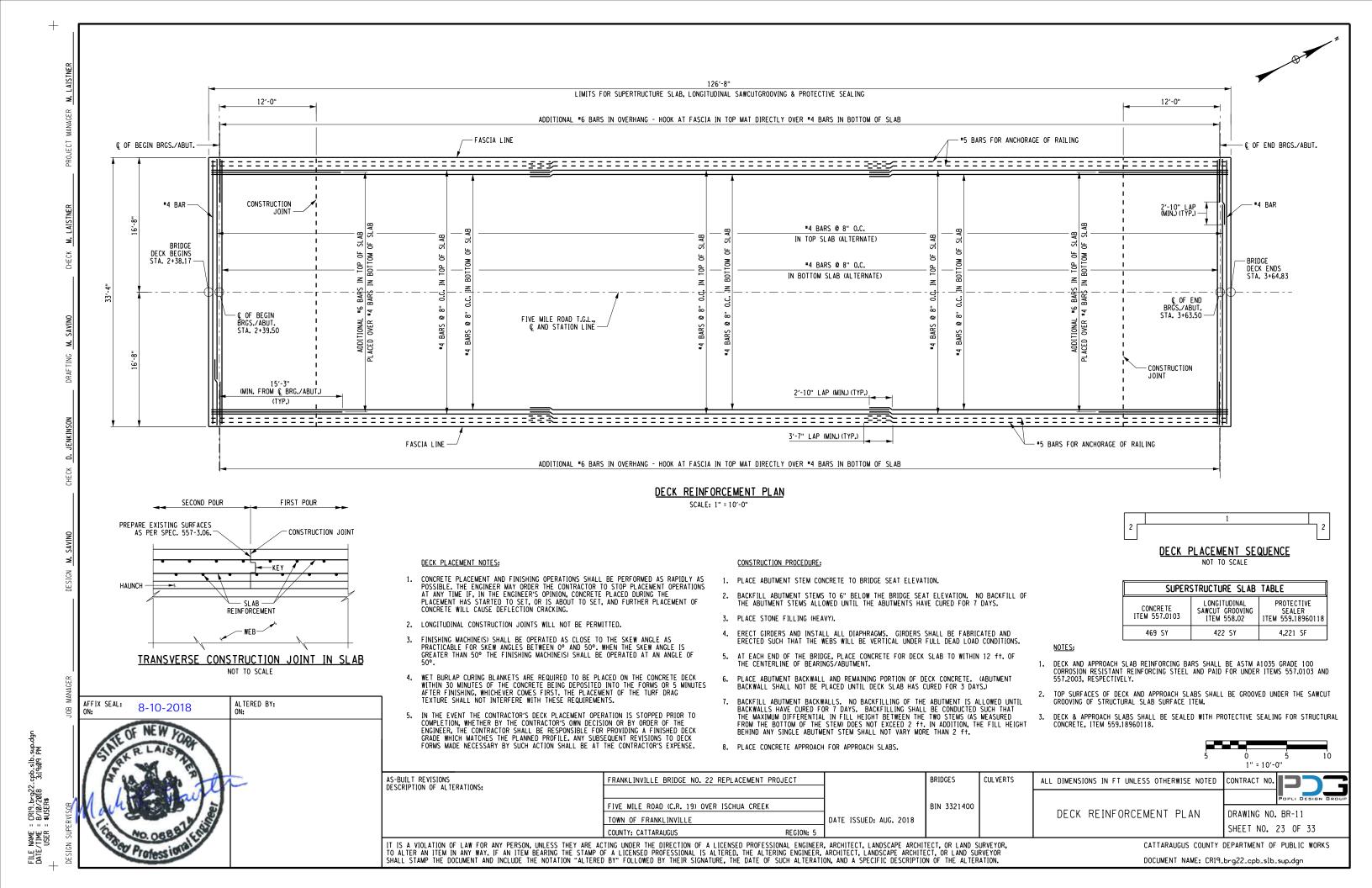
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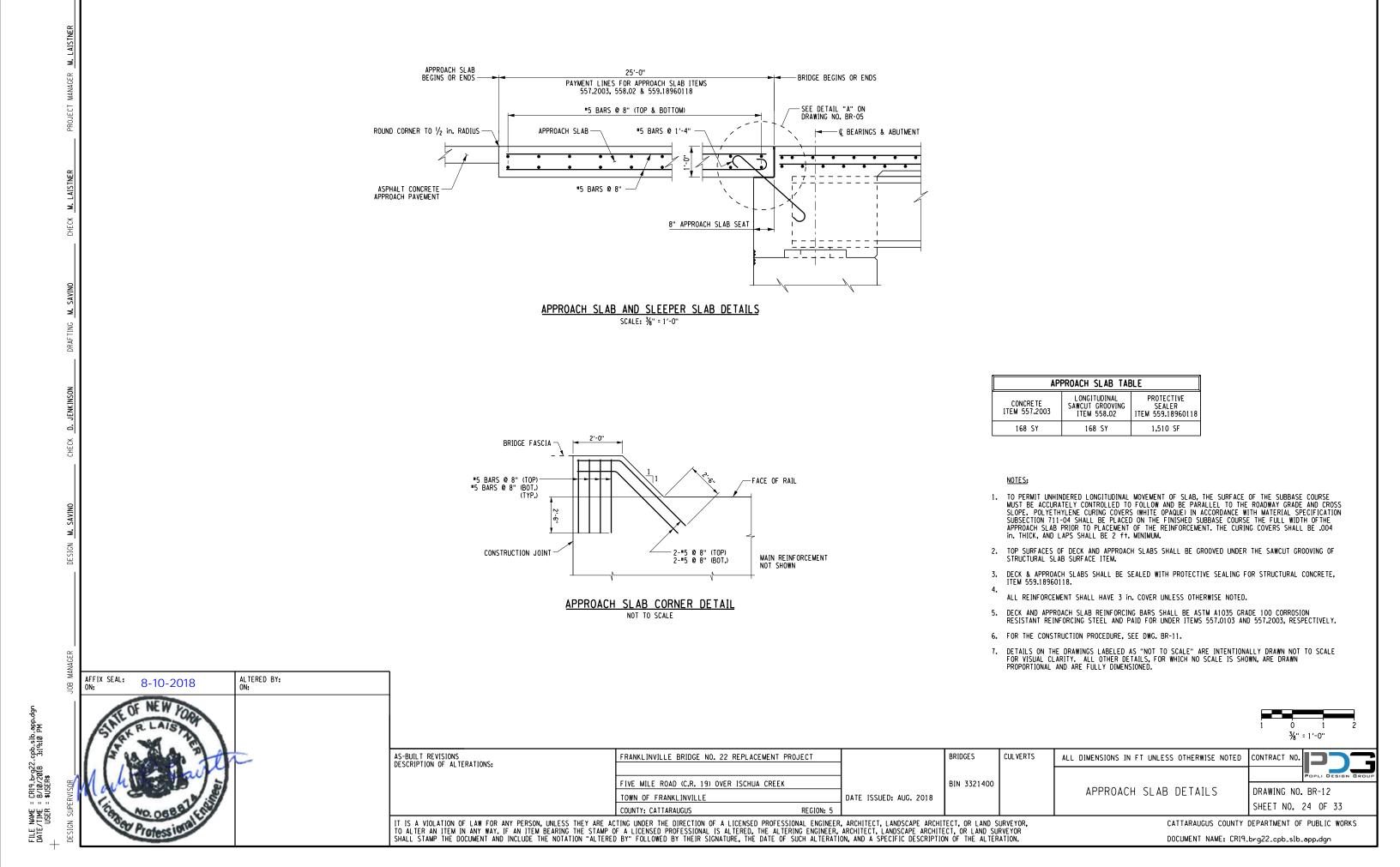


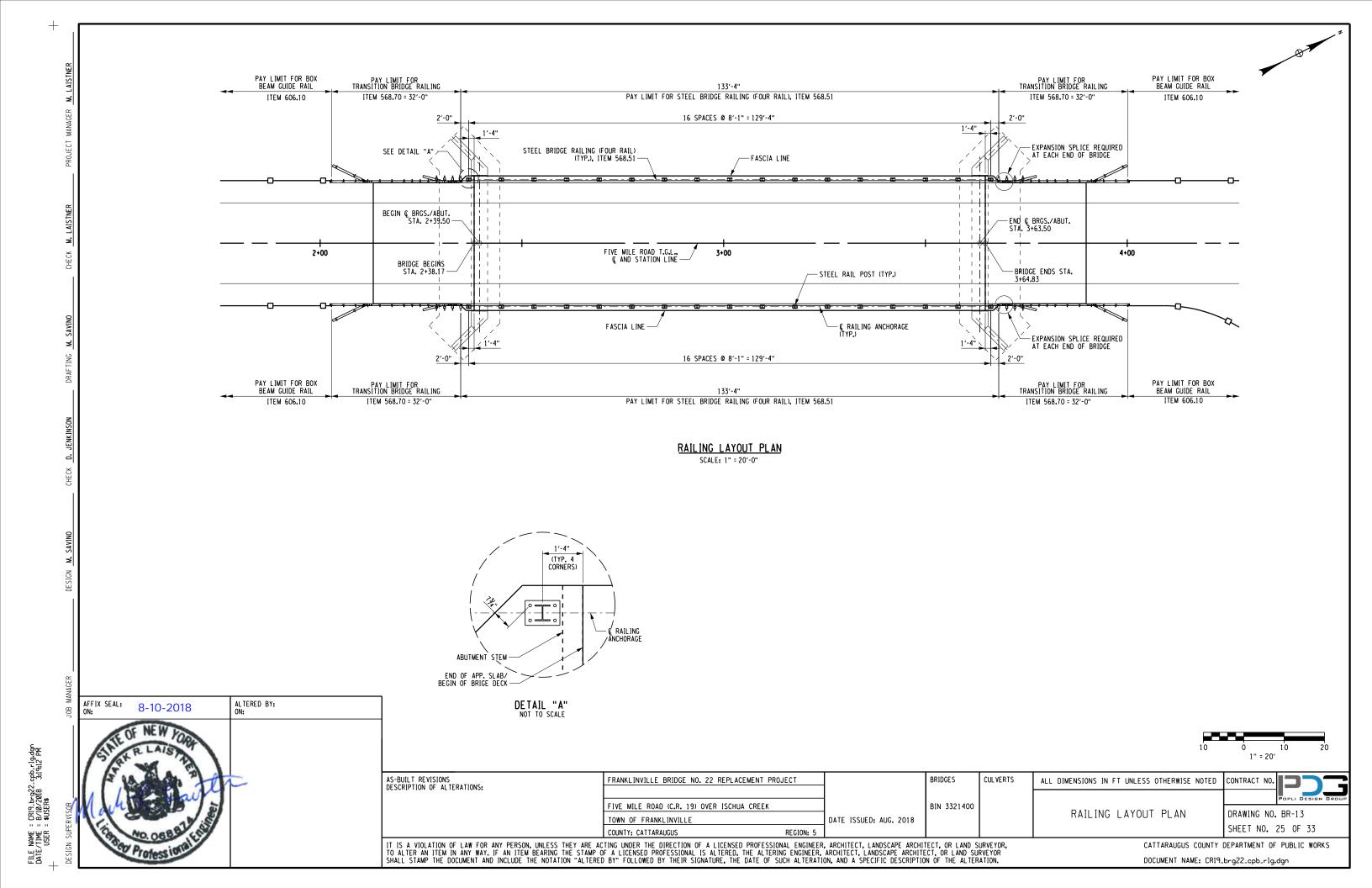
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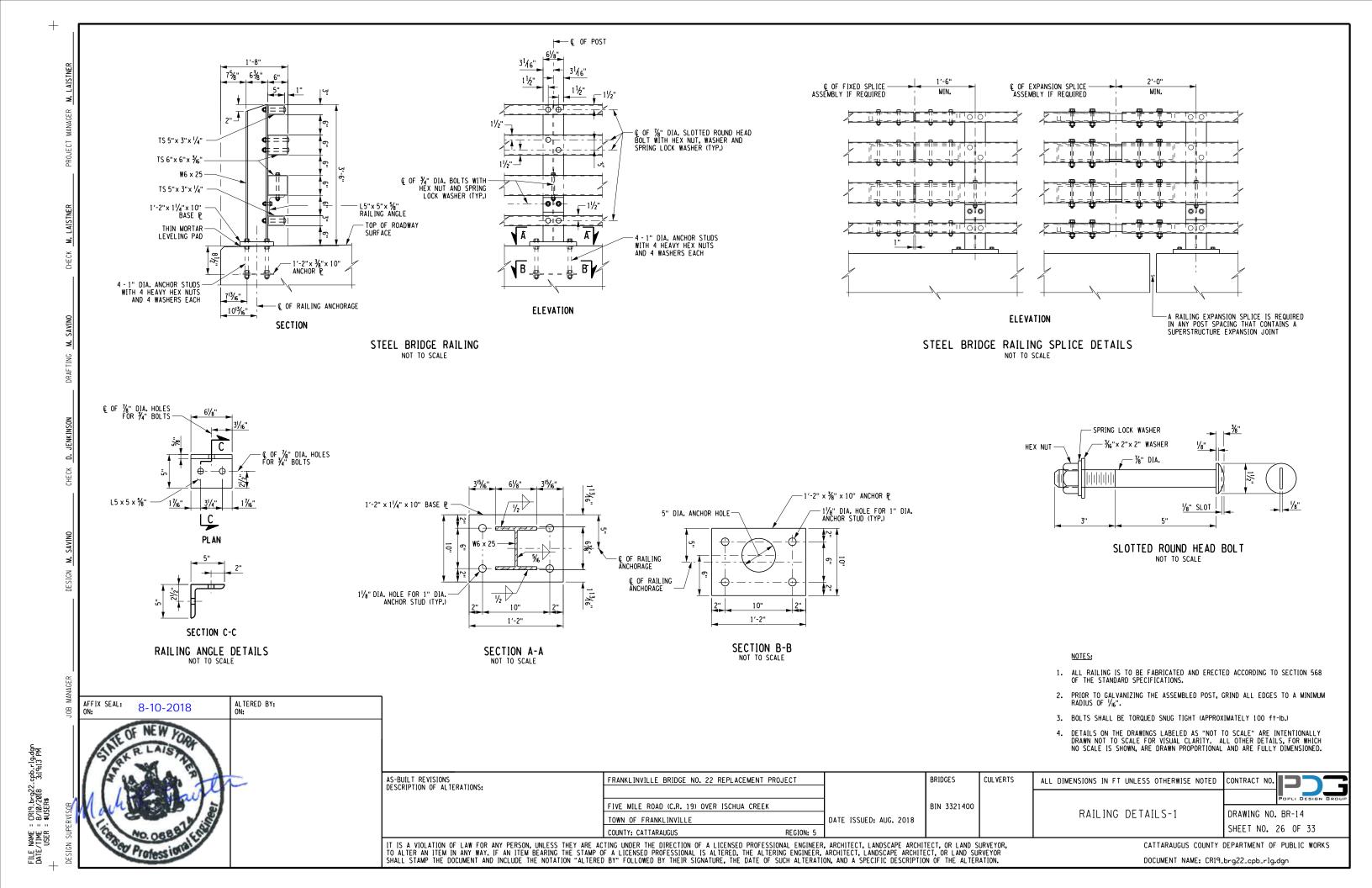
CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS

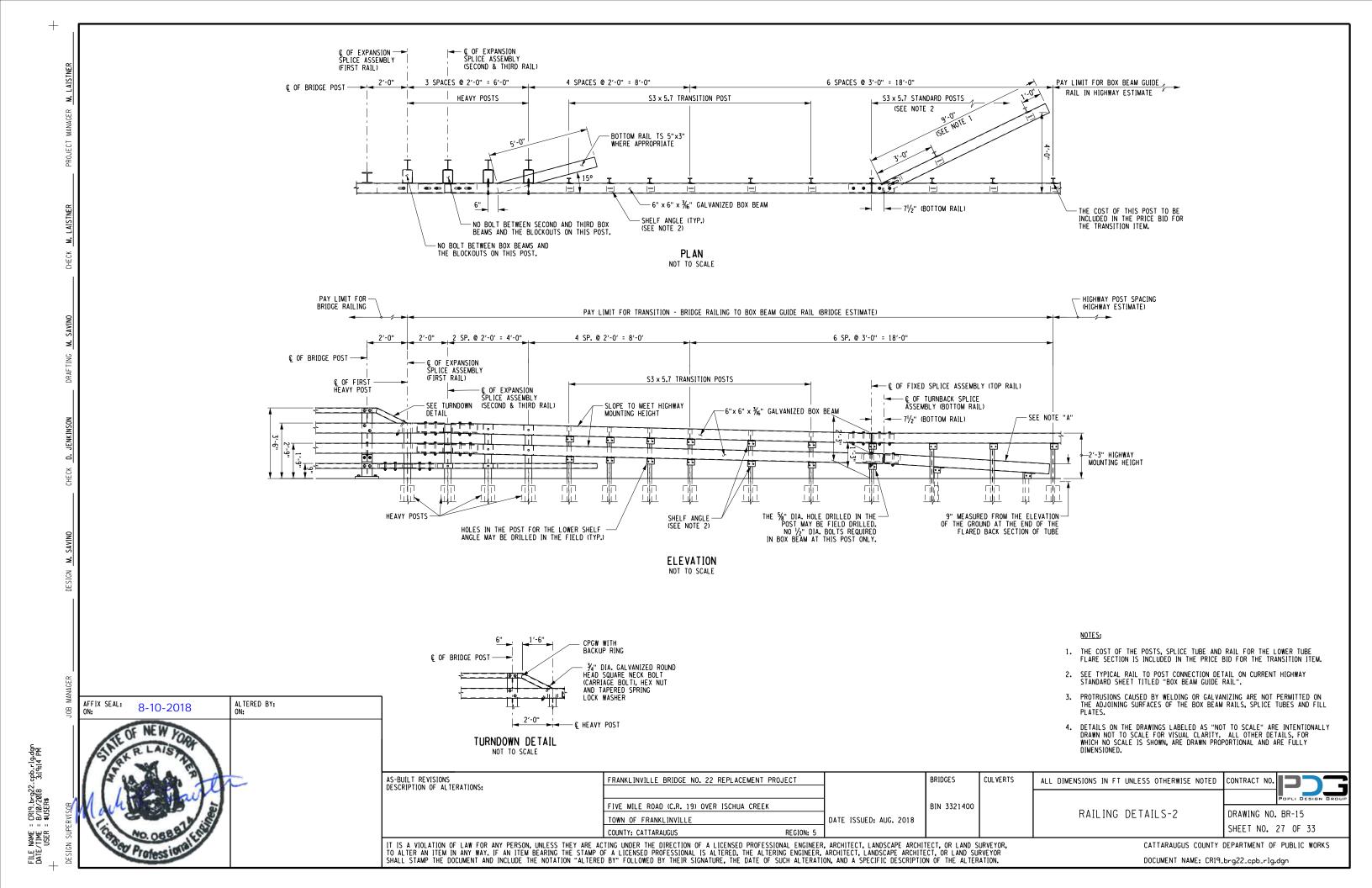
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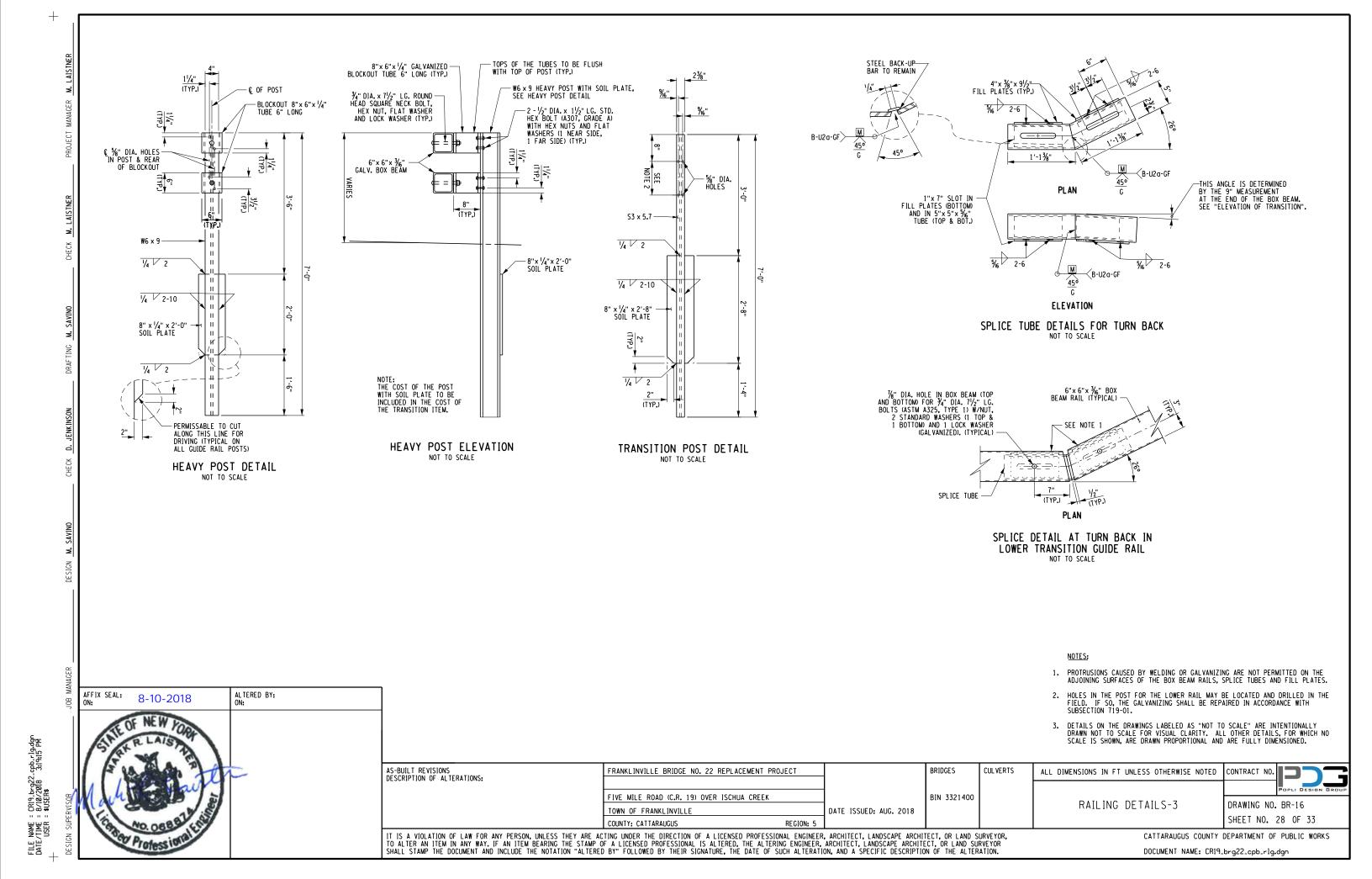


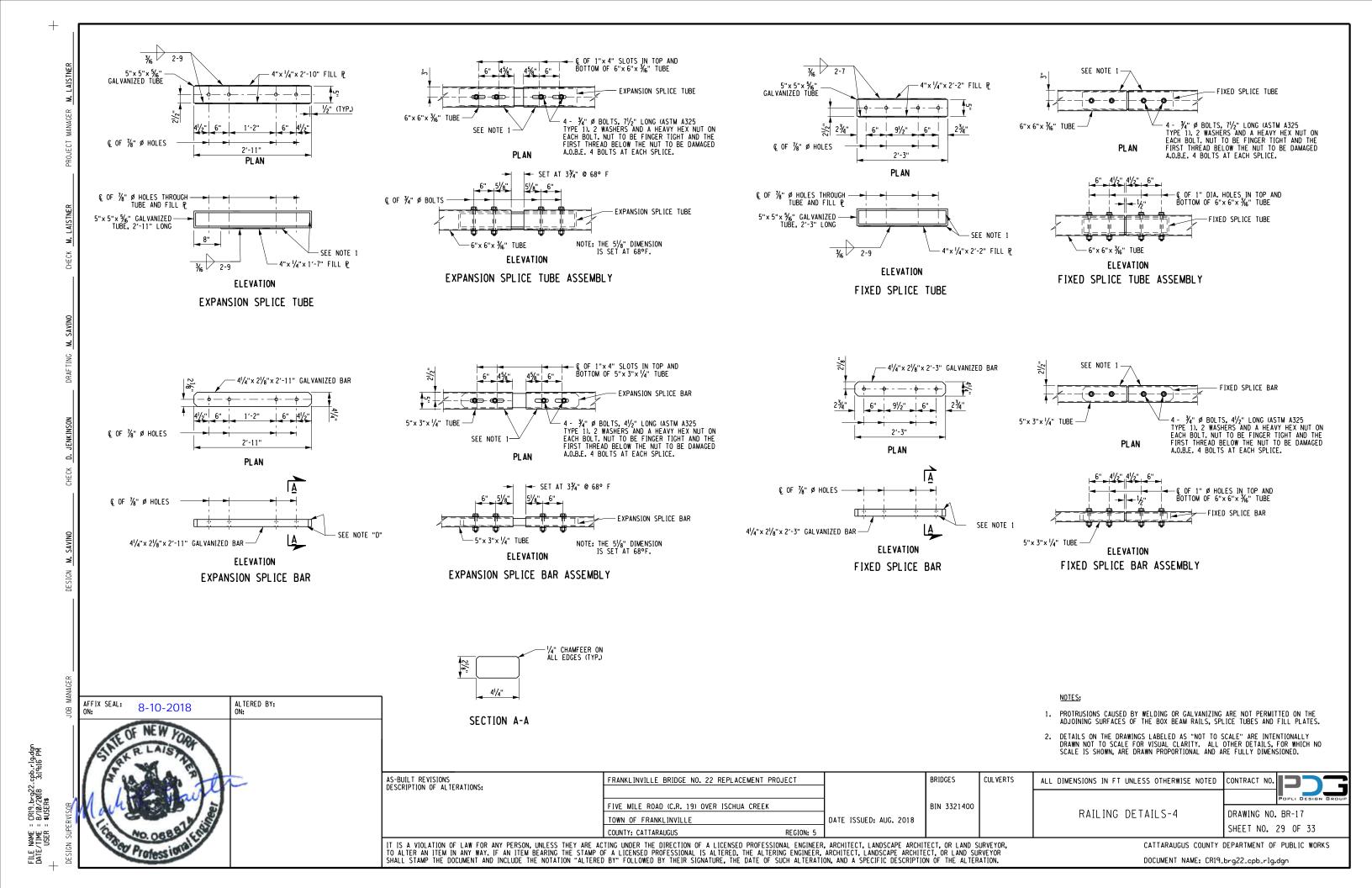












	ESTIMATE OF QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	ESTIMATE	FINAL
201.06	CLEARING AND GRUBBING	LS	1	
C202.1301	REMOVAL OF EXISTING BRIDGE	LS	1	
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	480	
203.03	EMBANKMENT IN PLACE	CY	815	
203.21	SELECT STRUCTURE FILL	CY	545	
206.01	STRUCTURE EXCAVATION	CY	2,335	
206.0201	TRENCH AND CULVERT EXCAVATION	CY	165	
207.26	PREFABRICATED COMPOSITE STRUCTURAL DRAIN	SY	95	
209.13	SILT FENCE-TEMPORARY	LF	1,000	
209.1501	TURBIDITY CURTAIN - TEMPORARY	LF	510	
304.15	SUBBASE COURSE, OPTIONAL TYPE	CY	510	
402.000013	PLANT PRODUCTION QUALITY ADJUSTMENT TO HMA ITEMS	QU	22	
402.098303	9.5 F3 TOP COURSE HMA, 80 SERIES COMPACTION	TON	101	
402.198903	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON	135	
402.378903	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	TON	194	
407.0102	DILUTED TACK COAT	GAL	129	
552.11	PERWANENT STEEL SHEETING	SF	5,894	
553.010001	COFFERDAMS (TYPE 1)	EACH	2	
555.08	FOOTING CONCRETE, CLASS HP	CY	178	
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CY	140	
556.03	STUD SHEAR CONNECTORS FOR BRIDGES	EACH	1,500	
556.10013011	CORROSION RESISTANT REINFORCING STEEL GRADE 100	LB	31,500	
557.0103	SUPERSTRUCTURE SLAB WITH INTEGRAL WEARING SURFACE - BOTTOM FORMWORK REQUIRED - TYPE 3 FRICTION	SY	469	
557.2003	STRUCTURAL APPROACH SLAB WITH INTEGRAL WEARING SURFACE - TYP E 3 FRICTION	SY	168	
558.02	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE	SY	590	
559.18960118	PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS	SF	5,731	
564.0501	STRUCTURAL STEEL, TYPE 1	LS	1	
564.20010008	HOT-DIP GALVANIZING OF STRUCTURAL STEEL	LB	233,300	
565.30	RUBBER IMPREGNATED WOVEN COTTON-POLYESTER FABRIC	EACH	12	
568.51	STEEL BRIDGE RAILING (FOUR RAIL)	LF	267	
568.70	TRANSITION BRIDGE RAILING	LF	128	
606.10	BOX BEAM GUIDE RAILING	LF	288	
606.120201	BOX BEAM GUIDE RAILING END ASSEMBLY, TYPE IIA	EACH	4	
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	LF	190	
610.1402	TOPSOIL - ROADSIDE	CY	75	
610.1601	TURF ESTABLISHMENT - ROADSIDE	SY	655	

	ESTIMATE OF QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	ESTIMATE	FINAL
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1	
619.04	TYPE III CONSTRUCTION BARRICADE	EACH	12	
C619.0604	TEMPORARY STRUCTURES AND APPROACHES	EACH	1	
619.100101	INTERIM PAVEMENT MARKINGS, STRIPES (TRAFFIC PAINT)	LF	3,185	
619.1301	TEMPORARY TRAFFIC SIGNALS	ELOC	1	
619.1703	TEMPORARY CONCRETE BARRIER, (PINNED)	LF	710	·
620.05	STONE FILLING (HEAVY)	CY	325	
620.08	BEDDING MATERIAL	CY	50	
625.01	SURVEY OPERATIONS	LS	1	
637.03	CONCRETE CYLINDER CURING BOX	EACH	1	
637.11	ENGINEER'S FIELD OFFICE - TYPE 1	MNTH	6	
637.34	OFFICE TECHNOLOGY AND SUPPLIES	DC	1,000	
698.04	ASPHALT PRICE ADJUSTMENT	DC	100	
698.05	FUEL PRICE ADJUSTMENT	DC	100	
698.06	STEEL/IRON PRICE ADJUSTMENT	DC	100	
699.040001	MOBILIZATION	LS	1	

FRANKLINVILLE BRIDGE NO. 22 REPLACEMENT PROJ	JECT		BRIDGES	CUL VERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NO.
FIVE MILE ROAD (C.R. 19) OVER ISCHUA CREEK			BIN 3321400			POPLI DESIGN GROUP
TOWN OF FRANKLINVILLE		DATE ISSUED: AUG. 2018			2011	DRAWING NO. EST-01
COUNTY: CATTARAUGUS	REGION: 5					SHEET NO. 30 OF 33

'

PROJECT MANAGER M. LAISTNE

M. LAISTNER

3 M. SAVINO

CHECK

NAGER _____

FILE NAME : CRI9.brg22.cpb.geo.gsp.dgn
DATE/TIME : 8/10/2018 3:19:19 PM
USER : \$USER\$

DESIGN SUPERVISOR

DATE STARTED FINISHED SHEET OF			B SERVIO JBSURF <i>A</i>	CES, INC. ACE LOG	PROJ. No. HOLE No. SURF. ELEV. G.W. DEPTH
PROJECT		was de sagridas sa signi	LOCATION	Transmission	
A17 (1985) 1 (1985)	947 476505 164	general services en	in the two constitutions and the second		A STATE OF THE STA
	WS ON MPLER 24 N BOSNISO CASING SO.	SO CLA	IL OR ROCK SSIFICATION		NOTES
1 3 3	4 8 7 10	3" TOPSOIL			Groundwater at 10'
	50/.5	Brown SILT, some (Moist-Loose)		· · · · · · · · · · · · · · · · · · ·	upon completion, and 5' 24 hrs. after completion
1 2 3	5	Gray SHALE, medi thin bedded, som (7) (num		thered,	Run#1, 2.5'-5.0' 95% Recovery 10 50% RQD
TABLE I	TABLE	Entre de la calenta		TABLE I	TI Company
Split Spoon Sample	of partic	ation of soil type is made on ba cle sizes, and in the case of fine s of plasticity.	sis of an estimate grained soils also	consisting of	g terms are used in classifying soils i mixtures of two or more soil types. e is based on weight of total sample.
Shelby Tube	Soil Ty	pe Soil Particle Size	9	Term	
Sample Geoprobe Macro-Core Auger or Test Pit Sample	Sand -	3" - 12" Coarse 3" - 3/4" Fine 3/4" - #4	Coarse Grained (Granular)	"and" "some "little" "trace	35 - 50 " 20 - 35 10 - 20
Rock Core	Silt - No	n Plastic (Granular) <#200	Fine Grained	spoon, the tr	ue percentage of gravel is often not le to the relatively small sampler
TABLE IV	THE CHARGE THE BOOK OF	Park a trace of a large way.	V6 750	TABLE V	
following terms:	ctness or consist	ency is described in accordance	e with the	Varved	Horizontal uniform layers or seams of soil(s).
Granular Soils Term E	Blows per Foot	Cohesive Soils	ws per Foot, N	Layer	• •
Loose Loose Firm Compact	0 - 4 4 - 10 10 - 30 30 - 50	Very Soft Soft Medium Stiff	0 - 2 2 - 4 4 - 8 8 - 15 15 - 30	Seam	Soil deposit more than 6" thick. Soil deposit less than 6" thick. Soil deposit less than 1/8" thick.
Very Compact	>50	Hard	>30		Con deposit less than 170 thec.
(Large particles in the recorded during the	ne soils will often penetration test)	significantly influence the blow	s per foot		Irregular, horizontal and angled seams and partings of soil(s).
TABLE VI	1987 1987	The second secon	is a s		
Rock Classificat	ion Term I	Meaning	Rock	Classification Ter	rm Meaning
- Hard	lium Hard	Scratched by fingernail Scratched easily by penknife Scratched with difficulty by pen Cannot be scratched by penknii	Beddir knife		(<1") d (1" - 4") (4" - 12") Natural breaks
	/ Weathered C	Judged from the relative amoun disintegration, iron staining, core ecovery, clay seams, etc.	ts of Fracti	- Massive	(>36") breaks in the rock oriented at some

DATE STAF FINIS SHEE	RT SH		4/	3/20 6/20 OF	17			JB SERVICES, INC. SUBSURFACE LOG	HOLE NO. <u>B-1</u> SURF. ELEV <u>1543.7'</u> G.W. DEPTH <u>See Note</u>
			FRA BE-1			E BRI	DGE	NO. 22 REPLACEMENT LOCATION: CR 19 OVER CATTARAUG	ISCHUA CREEK US COUNTY, NY
ЕРТН Т.		SMPL NO.	0/6	BL0		AMPLER N		SOIL OR ROCK CLASSIFICATION	NOTES
1.	7	1	2	1	12/10	- 13		TOPSOIL	Driller noted Topsoil at
_	/⊦	•	3	4		4		1010012	the ground surface
_	7	2	4	2				Brown f-c SAND, some Clayey Silt, little f-c Gravel	
	/[2	4		4		(moist-wet, loose, SM-SC)	
5	7	3	2	8				Contains some f-c Gravel (moist, firm)	
	/Γ		4	1		12			
	Λ	4	3	10					
	4		10	5		20			
—	/	5	4	8		40		Becomes Gray (wet)	
10 _	4	_	10	9		18		B	
_	/⊦	6	4 6	5 8		11		Becomes Brown	
\dashv	4		0	0				1	
-	╟								
15	ŀ							1	
_	7	7	6	7				1	
	/		8	11		15			
	Т								
20									
_	Λ	8	3	7				Brown f-c GRAVEL, some f-c Sand, little Clayey Silt	
	4		8	9		15		(wet, firm, GM-GC)	
\dashv	ŀ		\vdash					1	
25 —	ŀ								
~ -	7	9	6	8				Contains "and" f-c Sand	
\neg	/t		10	12		18		Contains and 10 cana	
	T								
╛	Ī								
30									
	1	10	3	5		\Box		Brown f-c SAND, tr.gravel, tr.silt (wet, firm, SP)	
	4		6	4		11			
-			\vdash			\vdash		1	
35			\vdash	-		\vdash		1	
~~ 	+	11	4	5				(loose)	
\neg	/ŀ		3	3		8		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
\exists	\dagger							1	
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40 🗌									
	DRII	LER:	B. DI	ELUDI	E / S. \	VOLKIE	WICZ		LASSIFIED BY: Geologist

DATE: START FINISH				3/20 6/20		.	SJB SERVICES, INC. SUBSURFACE LOG	HOLE NO. <u>B-1</u> SURF. ELEV <u>1543.7</u>
SHEET 2 OF 3				OF	3	.	SERVICES, INC	G.W. DEPTH See No
			FRA			LE BRI	GE NO. 22 REPLACEMENT LOCATION: CR 19 OV	YER ISCHUA CREEK AUGUS COUNTY, NY
DEPTH FT.		SMPL NO.	0/6	BLO	WS ON S	AMPLER N	SOIL OR ROCK CLASSIFICATION	NOTES
	17	12	4	24	12.10		(moist-wet, v.compact)	
_	41		28	15		52		
_	┪┟						_	
45	ш							
_	∤ /ŀ	13	8 25	15 24		40	Contains some f-c Gravel (compact, SW-SP)	
_	H		25	24		40		
_] [
50	₩	14	1	2			Contains to gravel (wet lease SD)	
_	╢	14	3	3		5	Contains tr.gravel (wet, loose, SP)	
_	П							
55 -	4							
- 55 -	╁	15	WOH	WOH			Gray Clayey SILT, tr.sand (wet, v.soft, ML)	WOH = Weight of
_	7		WOH	4		WOH		Hammer and Rods
_	┨		_				_	
60	┪┟							
	17	16	2	2			(medium)	
_	71		3	4		5		
-	┨╏		\vdash					
65	Ш							
_	∤ /ŀ	17	WOH 2	WOH 3		2	(soft)	
_	11		-	3			_	
_] [
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75 -	┨┞		_				\dashv	
- ′° -	₩	19	2	2		\vdash	(medium)	
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								l

NOTES:

- THE SUBSURFACE LOGS WERE PREPARED FOR SPECIFIC APPLICATION TO THIS SITE AND PROJECT ONLY. NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE.
- 2. THE SITE EXPLORATION INVESTIGATED SUBSURFACE CONDITIONS ONLY AT DISCRETE TEST LOCATIONS. IT SHOULD BE UNDERSTOOD THAT THE OVERALL SUBSURFACE CONDITIONS MAY VARY FROM THOSE REVEALED DURING CONSTRUCTION, AND THESE VARIATIONS MAY IMPACT THE ASSUMPTIONS MADE IN DEVELOPING THIS PLAN SET.

FRANKLINVILLE BRIDGE NO. 22 REPLACEMENT PROJECT		BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NO.
FIVE MILE ROAD (C.R. 19) OVER ISCHUA CREEK		BIN 3321400			POPLI DESIGN GROUP
	DATE ISSUED: AUG. 2018	BIN 3321400		SUBSURFACE LOG-1	DRAWING NO. GEO-01
COUNTY: CATTARAUGUS REGION: 5					SHEET NO. 31 OF 33

FILE NAME : CRI9.brg22.cpb.geo.gsp.dg
DATE/TIME : 8/10/2018 3:19;22 PM
USER : \$USER\$

DESIGN SUPERVISOR

ECT MANAGER M. LAISTNE

 DATE:

 START
 3/30/2017

 FINISH
 3/31/2017

 SHEET
 1 OF 3

SJB SERVICES, INC. SUBSURFACE LOG

SERVICES, INC.

HOLE NO. <u>B-2</u>
SURF. ELEV <u>1550.8'</u>

G.W. DEPTH <u>See Notes</u>

PROJECT: FRANKLINVILLE BRIDGE NO. 22 REPLACEMENT LOCATION: CR 19 OVER ISCHUA CREEK
PROJ. NO.: BE-17-049 CATTARAUGUS COUNTY, NY

1	SMPL		BLO	WS ON S	AMPLER	SOIL OR ROCK	NOTES
	NO.	0/6	6/12	12/18	N	CLASSIFICATION	
J	1	-	31			ASPHALT	Driller noted Asphalt at
$\perp V$		25	25		56	Brown f-c GRAVEL and f-c Sand, tr.silt (moist, FILL)	the ground surface
\Box	2	16	10			Brown Silty CLAY, some f-c Gravel, some f-c Sand	
$\supset V$		5	5		15	(moist, FILL)	
\Box	3	6	5			Brown f-c SAND, some f-c Gravel, some Clayey Silt	
\neg		3	4		8	(moist, FILL)	
\top	4	4	6			Brown Silty CLAY and f-c Sand, little f-c Gravel	
7/		4	3		10	(moist, FILL)	
7	/ 5	3	2			Brown Silty CLAY, little f-c Sand, little f-c Gravel	
7/		5	4		7	(moist, medium, CL)	
1	/ 6	4	6			Contains some f-c Gravel, some f-c Sand (v.stiff)	
٦/		10	16		16		
十	1	1	<u> </u>	\vdash		┪	
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+	7	8	10			Ⅎ	Poor Recovery Sample #
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\dashv	\vdash	+	 	\vdash		 	1
+	/ 8	2	6	\vdash		Prount a CRAVEL come to Sand little Claver Sill	
-	ʹͰ·΅	10	11	\vdash	16	Brown f-c GRAVEL, some f-c Sand, little Clayey Silt	
-	+	110		\vdash	10	(wet, firm, GM-GC)	
\dashv	\vdash	+	-	\vdash	_	\dashv	
\dashv	-	+		\vdash			-
+	1 0	+	40	\vdash	_	- Description of a CANID little for Control little City	
-1/	<u> 9</u>	6	12	\vdash		Brown f-c SAND, little f-c Gravel, little Clayey Silt	
-	-	10	9		22	(wet, firm, SM-SC)	
\dashv	<u> </u>	+-		\vdash	-	\dashv	
4	_	1		\vdash		-	
+	1	+-	L	\vdash	\vdash	-	
4	10	9	18	\vdash		Contains tr.clayey silt (compact, SP)	
-/	_	27	21	\vdash	45	_	
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4	L	1		\sqcup	\vdash	_	-
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٦,	<u> 11</u>	15	14	igsquare	\vdash	Brown f-c GRAVEL, little f-c Sand, tr.clayey silt	
_/	_	16	22	\Box	30	(wet, firm, GM-GC)	
_						\sqcup	
_				$oxed{oxed}$			
\perp							
N	= NO BI	OWS T	O DRIV	/F 2-IN	CH SPOON	2-INCHES WITH A 140 LB. PIN WT. FALLING 30-INCHES PER BLOW C	LASSIFIED BY: Geologist

START FINISH SHEET	3/3	30/20 31/20 OF	17		SJB SERVICES, INC. SUBSURFACE LOG	HOLE NO. B-2 SURF. ELEV 1550.8 G.W. DEPTH See No.	
PROJECT PROJ. NO				BRIDG	E NO. 22 REPLACEMENT LOCATION: CR 19 OVER CATTARAUGI	ISCHUA CREEK US COUNTY, NY	
DEPTH SMP	L 0/6	BLOV	WS ON SAMP	LER N	SOIL OR ROCK CLASSIFICATION	NOTES	
	12	11 17	2	3	Brown f-c SAND, some f-c Gravel, little Clayey Silt (wet, firm, SM-SC)		
45	8 15	10		25	Brown f-c GRAVEL, little f-c Sand, little Clayey Silt (wet, firm, GM-GC)	_	
50 14	3 7	4 7		1	Gray Clayey SILT, tr.sand (moist-wet, stiff, ML)	-	
55							
15	6	6	1	1			
60 16	3 5	3 5		8			
65 17	4 3	3		6	(medium)		
70							
18	2	4		3	(soft)		
75 19	2 2	1 3		3	(wet)		
80							

STAR FINIS SHEE	RT 3/30/2017 SH 3/31/2017					.	SJB SERVICES, INC. SUBSURFACE LOG	HOLE NO. B-2 SURF. ELEV 1550.8' G.W. DEPTH See Note		
			FRAI BE-1			E BRI	GE NO. 22 REPLACEMENT LOCATION: CR 19 OVER CATTARAUC	I ISCHUA CREEK US COUNTY, NY		
DEPTH FT.	- 1	SMPL NO.	0/6		WS ON S	AMPLER N	SOIL OR ROCK CLASSIFICATION	NOTES		
	_	20	WOH 3	2	12/18	5	Contains some f-c Gravel, some f-c Sand (medium)	WOH = Weight of Hammer and Rods		
85	4	21	3 4	4		8	Contains tr.sand, tr.gravel (moist-wet, stiff)			
90 =	#	22	4 3	3 5		6	Gray Silty CLAY, tr.sand (wet, medium, CL)	_		
95	1	23	4 3	4 8		7				
100	/	24	3 4	4 8		8	Gray Clayey SILT, tr.sand (moist-wet, stiff, ML)			
	-						Boring Complete at 100.0'	Free Standing Water recorded at 22' at Boring Completion		
- <u>-</u>	-									
- =										

OTES:

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FRANKLINVILLE BRIDGE NO. 22 REPLACEMENT PRO	JECT	_	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NO.
						POPLI DESIGN GROUP
FIVE MILE ROAD (C.R. 19) OVER ISCHUA CREEK			BIN 3321400		SUBSURFACE LOG-2	DRAWING NO. GEO-02
TOWN OF FRANKLINVILLE	N OF FRANKLINVILLE					
COUNTY: CATTARAUGUS	REGION: 5					SHEET NO. 32 OF 33

METHOD OF INVESTIGATION ASTM D-1586 USING HOLLOW STEM AUGERS

