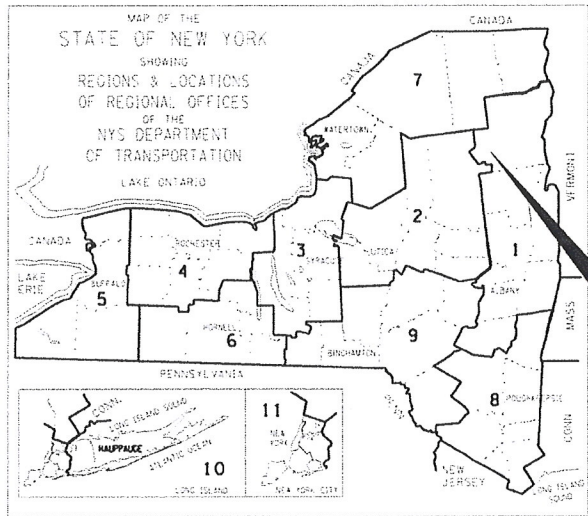


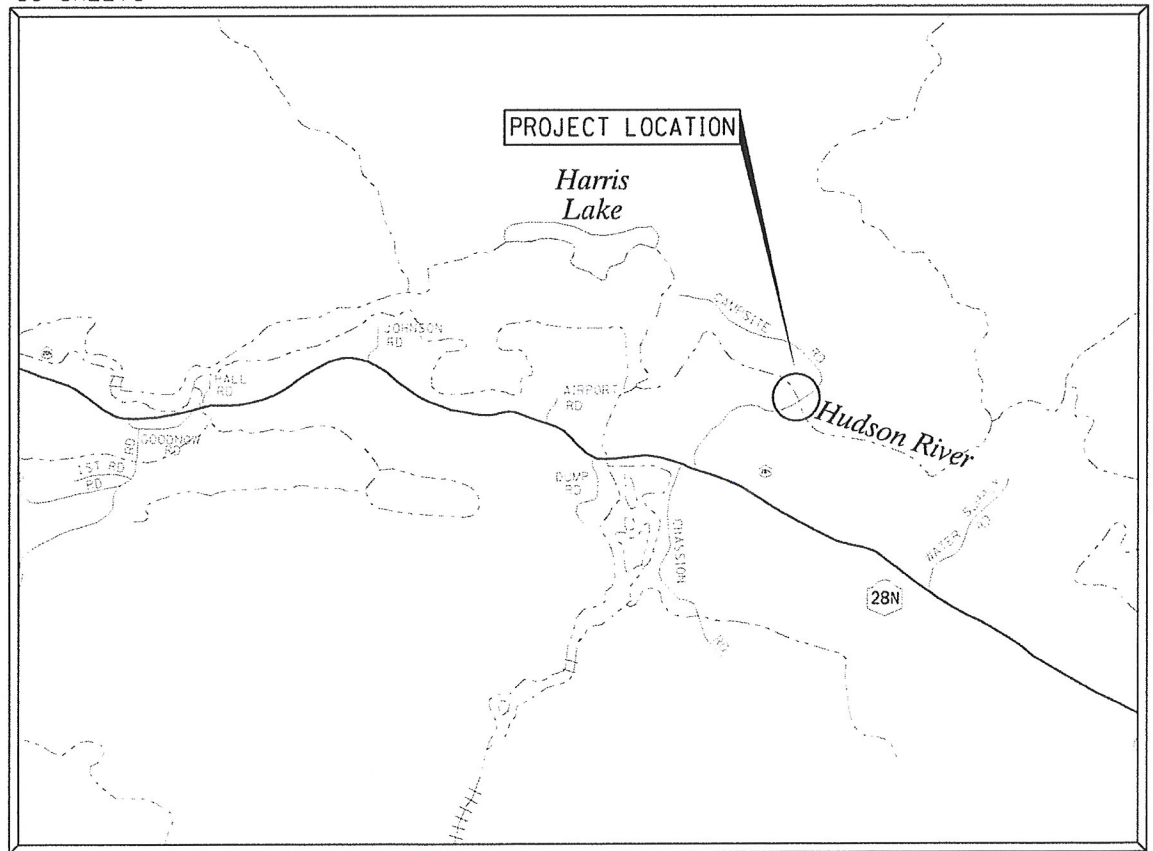
CHECKED BY M. HUNT
 DRAFTED BY A. BROWN
 ESTIMATED BY M. HUNT
 CHECKED BY A. BROWN
 DESIGNED BY C. TUTUNJIAN
 JOB MANAGER
 SUPERVISOR E. WOODS



CAMPSITE ROAD OVER THE HUDSON RIVER BRIDGE REPLACEMENT

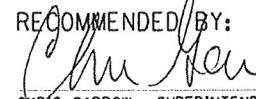
B.I.N. 3302040
P.I.N. 1760.68
D035560

39 SHEETS ESSEX COUNTY



PROJECT LOCATION
NOT TO SCALE

RECOMMENDED BY:


 CHRIS GARROW, SUPERINTENDENT
 ESSEX COUNTY DEPT. OF PUBLIC WORKS

2-13-19
 DATE

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

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY AND IN CONFORMITY WITH THE STANDARD SPECIFICATIONS (US CUSTOMARY UNITS) OF JANUARY 1 2019, EXCEPT AS MODIFIED ON THESE PLANS AND IN THE ITEMIZED PROPOSAL.

CONTRACT PLANS HAVE BEEN DESIGNED IN ACCORDANCE WITH NYS DOT POLICIES AND GUIDE LINES AND THE FINAL DESIGN REPORT APPROVED ON 7/11/2018

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APPLICABLE NYS DOT STANDARD SHEETS INCLUDE BUT ARE NOT LIMITED TO: 203-01, 203-02, 203-03, 209-01, 209-05, 209-06, 402-01, 554-02, 608-03, 608-04, 608-05, 608-06, 611-01, 619-01, 619-02, 619-04, 619-10, 619-11, 619-12, 619-20, 619-60, 619-62, 625-01, 645-01, 645-02, 645-03, 646-13, 646-14, 646-15, 680-17, 685-01.

PREPARED AND RECOMMENDED BY:



CHARLES N. TUTUNJIAN, P.E.
 L.I.C. NO. 074258



CREIGHTON MANNING ENGINEERING, LLP
 2 WINNERS CIRCLE - ALBANY, NEW YORK, 12225
 P: (518) 445-6236 F: (518) 446-0227 WWW.CMVELLP.COM

CM PROJECT NO. 117-050

CAMPSITE ROAD OVER

HUDSON RIVER

B.I.N. 3302040

P.I.N. 1760.68

TOWN OF NEWCOMB, ESSEX COUNTY

SUBMISSION: PS&E

FEBRUARY 2019

FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
1	N.Y.	1	39

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
BL	BASELINE	BDY	BOUNDARY	GP	GUY POLE
BRG	BEARING	BLDG	BUILDING	GSB	GAS SERVICE BOX (HOUSE LINE)
CL	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 PENTROMETER
ST	SPIRAL TO TANGENT	OG	ORIGINAL GROUND	DA	2 1/4 INCHES CASSED DRILL HOLE
STA	STATION	O/H	OVERHEAD	DM	DRILLING MUD
T	TANGENT LENGTH	P	PARCEL	DN	4 INCHES CASSED 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
ABBR.	DESCRIPTION	POR	PORCH	RP	1 INCH SAMPLER (RETRACTABLE PLUG)
BB	BOTTOM OF BANK (STREAM)	RR	RAILROAD	SP	SEISMIC POINT
BC	BOTTOM OF CURB	RTE	ROUTE	TP	TEST PIT
BO	BOTTOM OF OPENING	ROW	RIGHT OF WAY	ABBREVIATION "C" IN CATAGORIES: DA, DM, DN, AND FH WITH:	
CAP	CORRUGATED ALUMINUM PIPE	RW	RETAINING WALL	B	BRIDGE
CB	CATCH BASIN	SH	STATE HIGHWAY	C	CUT
CIP	CAST IRON PIPE	SHLDR	SHOULDER	D	DAM
CL STRM	CENTERLINE OF STREAM	SPK	SPIKE	F	FILL
CMP	CORRUGATED METAL PIPE	ST	STREET	K	CULVERT
CP	CONCRETE PIPE	STK	STAKE	W	WALL
CSP	CORRUGATED STEEL PIPE	STY	STORY	X	TO BE USED IF ONE OF THE ABOVE CANNOT BE DEFINED AT THE TIME THE EXPLORATION IS MADE
CULV	CULVERT	SW	SIDEWALK		
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

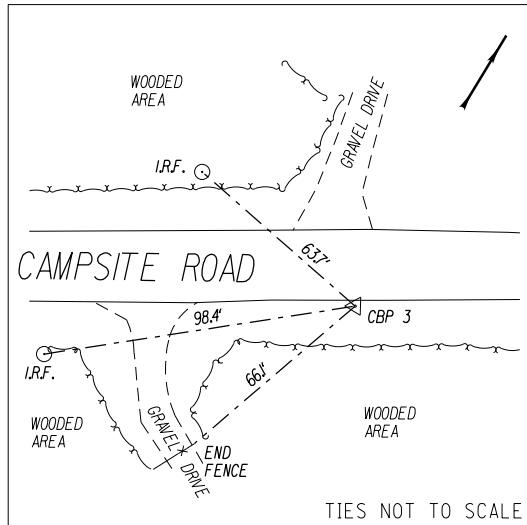
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES BIN 3302040	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT					
	TOWN OF NEWCOMB				INDEX AND ABBREVIATIONS	DRAWING NO. IA-1
	COUNTY: ESSEX	REGION: 1				SHEET NO. 2 OF 39

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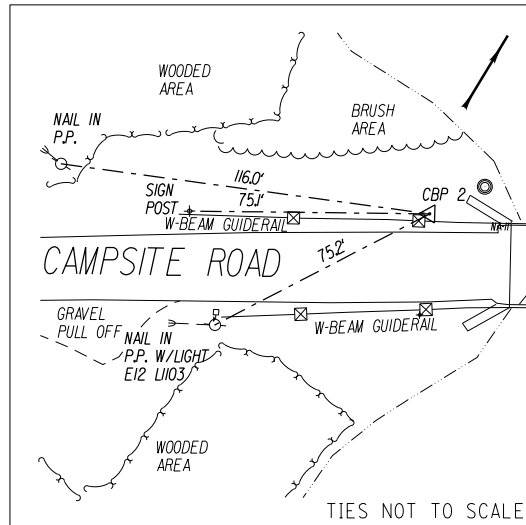
INDEX		
SHEET NUMBER	DESCRIPTION	DRAWING NUMBER
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2	INDEX AND ABBREVIATIONS	IA-1
3	ESTIMATE & BASELINE TIES	EQ-1
4	LEGEND - 1	LE-1
5	LEGEND - 2	LE-2
6	GENERAL NOTES - 01	GN-1
7	GENERAL NOTES - 02	GN-2
8	WORK ZONE TRAFFIC CONTROL - 1	WZTC-1
9	WORK ZONE TRAFFIC CONTROL - 2	WZTC-2
10	WORK ZONE TRAFFIC CONTROL - 3	WZTC-3
11	HIGHWAY GENERAL PLAN	GP-1
12	HIGHWAY TYPICAL SECTIONS	TYP-1
13	GENERAL PLAN AND ELEVATION	ST-1
14	TYPICAL SECTIONS	ST-2
15	TEMPORARY DETOUR SECTIONS	ST-3
16	PROPOSED PROFILE	ST-4
17	DETOUR PROFILE	ST-5
18	EROSION CONTROL PLAN	ST-6
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20	EARTHWORK SECTIONS	ST-8
21	FINAL GRADING PLAN	ST-9
22	WEST ABUTMENT PLAN AND ELEVATION	ST-10
23	WEST ABUTMENT REINFORCEMENT PLAN AND ELEVATION	ST-11
24	EAST ABUTMENT PLAN AND ELEVATION	ST-12
25	EAST ABUTMENT REINFORCEMENT PLAN AND ELEVATION	ST-13
26	ABUTMENT DETAILS - 01	ST-14
27	ABUTMENT DETAILS - 02	ST-15
28	BEARING DETAILS	ST-16
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32	HAUNCH & CAMBER TABLES	ST-20
33	SUPERSTRUCTURE SLAB REINFORCEMENT PLAN	ST-21
34	APPROACH SLAB PLAN & DETAILS	ST-22
35	BRIDGE RAIL PLAN AND DETAILS	ST-23
36	TRANSITION BRIDGE RAILING PLAN, ELEVATION, & DETAILS	ST-24
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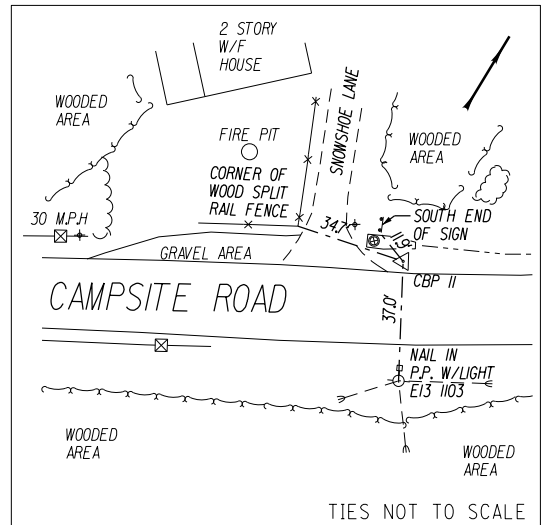
ESTIMATE OF QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
201.06	CLEARING AND GRUBBING	LS	1
202.120001	REMOVING EXISTING SUPERSTRUCTURES	LS	1
202.19	REMOVAL OF SUBSTRUCTURES	CY	278
203.01920007	WETLAND RESTORATION	CY	166
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	678
203.03	EMBANKMENT IN PLACE	CY	708
203.21	SELECT STRUCTURE FILL	CY	335
206.01	STRUCTURE EXCAVATION	CY	1500
206.0201	TRENCH AND CULVERT EXCAVATION	CY	33
207.27	PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN	SY	130
209.13	SILT FENCE-TEMPORARY	LF	930
209.1501	TURBIDITY CURTAIN - TEMPORARY	LF	128
209.190301	ROLLED EROSION CONTROL PRODUCT, CLASS II TYPE C, INTERMEDIATE	SY	627
304.12	SUBBASE COURSE, TYPE 2	CY	519
402.00013	PLANT PRODUCTION QUALITY ADJUSTMENT TO HMA ITEMS	QU	26
402.128303	12.5 F3 TOP COURSE HMA, 80 SERIES COMPACTION	TON	108
402.198903	19 F9 BINDER COURSE HMA, 80 SERIES COMPACTION	TON	186
402.378903	37.5 F9 BASE COURSE HMA, 80 SERIES COMPACTION	TON	230
407.0102	DILUTED TACK COAT	GAL	164
553.020001	COFFERDAMS (TYPE 2)	EACH	1
553.020002	COFFERDAMS (TYPE 2)	EACH	1
555.0104	FOOTING CONCRETE CLASS A (NO CONCRETE CLASS SUBSTITUTIONS PERMITTED, EXCEPT CLASS H WHERE FOOTING IS 3 FT THICK OR LESS)	CY	17
555.08	FOOTING CONCRETE, CLASS HP	CY	68
555.09	CONCRETE FOR STRUCTURES, CLASS HP	CY	124
556.0201	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	LB	12700
556.0202	EPOXY-COATED BAR REINFORCEMENT FOR STRUCTURES	LB	18960
556.03	STUD SHEAR CONNECTORS FOR BRIDGES	EACH	1010
557.0103	SUPERSTRUCTURE SLAB WITH INTEGRAL WEARING SURFACE - BOTTOM FORMWORK REQUIRED - TYPE 3 FRICTION	SY	322
557.2003	STRUCTURAL APPROACH SLAB WITH INTEGRAL WEARING SURFACE - TYP E 3 FRICTION	SY	61
557.29	WINTER SURFACE TREATMENT - SUPERSTRUCTURE SLABS AND STRUCTURAL APPROACH SLABS	SY	383
558.02	LONGITUDINAL SAWCUT GROOVING OF STRUCTURAL SLAB SURFACE	SY	336
559.18960118	PROTECTIVE SEALING OF STRUCTURAL CONCRETE ON NEW BRIDGE DECKS AND BRIDGE DECK OVERLAYS	SF	3835
564.0501	STRUCTURAL STEEL, TYPE 1	LS	1
565.2032	TYPE E,B EXPANSION BEARING (56 TO 111 KIPS)	EACH	10
568.51	STEEL BRIDGE RAILING (FOUR RAIL)	LF	255
568.70	TRANSITION BRIDGE RAILING	LF	128
570.01	LEAD EXPOSURE CONTROL PLAN	LS	1
570.09	ENVIRONMENTAL GROUND PROTECTION	LS	1
570.10	ENVIRONMENTAL WATERWAY PROTECTION	LS	1
571.03	DISPOSAL OF HAZARDOUS PAINT WASTE CONTAINING LEAD	LB	105
572.010001	STRUCTURAL STEEL PAINT SYSTEM; SHOP APPLIED	SF	2176
606.10	BOX BEAM GUIDE RAILING	LF	90
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OR SHOP MITERED)	LF	155
606.120101	BOX BEAM END PIECE	EACH	4
606.71	REMOVING AND DISPOSING CORRUGATED BEAM GUIDE RAILING	LF	501
607.41010010	TEMPORARY PLASTIC BARRIER FENCE	LF	800
608.020102	HOT MIX ASPHALT (HMA) SIDEWALKS, DRIVEWAYS AND BICYCLE PATHS ,AND VEGETATION CONTROL STRIPS	TON	31
610.1401	TOPSOIL - REUSE ON-SITE MATERIALS	CY	80
610.16010424	TURF ESTABLISHMENT - SEED MIX AS SPECIFIED ROADSIDE SEED MIX	CY	597
619.01	BASIC WORK ZONE TRAFFIC CONTROL	LS	1
619.04	TYPE III CONSTRUCTION BARRICADE	EACH	4
619.0601	TEMPORARY STRUCTURES AND APPROACHES NO 1	EACH	1
619.0903	TEMPORARY PAVEMENT MARKINGS, STRIPES (REMOVABLE TAPE)	LF	1000
619.100103	INTERIM PAVEMENT MARKINGS, STRIPES (REMOVABLE TAPE)	LF	24
619.1301	TEMPORARY TRAFFIC SIGNALS	ELOC	1
620.05	STONE FILLING (HEAVY)	CY	212
620.0801	BEDDING MATERIAL, TYPE 1	CY	42
625.01	SURVEY OPERATIONS	LS	1
627.50140008	CUTTING PAVEMENT	LF	44
637.11	ENGINEER'S FIELD OFFICE - TYPE 1	MNTH	6
637.34	OFFICE TECHNOLOGY AND SUPPLIES	DC	3000
645.5202	GROUND-MOUNTED SIGN PANELS LESS THAN OR EQUAL TO 30 SF, WITH Z-BARS, HIGH-VISIBILITY SHEETING	SF	1
645.81	TYPE A SIGN POSTS	EACH	4
646.22	DELINATOR, SNOWPLOWING MARKER, SUPPLEMENTARY SNOWPLOWING MARKER PANELS	EACH	4
647.31	RELOCATE SIGN PANEL, SIGN PANEL ASSEMBLY SIZE 1 (UNDER 30 SQUARE FEET)	EACH	3
647.61	REM AND DISPOSE GROUND MOUNTED TYPE A SIGN SUPPORT(S), FDNS AND ANY ATTACHED SIGNS - SIZE 1 (UNDER 30 SQUARE FEET)	EACH	3
697.03	FIELD CHANGE PAYMENT	DC	93000
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



⊕3 STA. 10+00.00
 DOCK SPIKE IN GRASS AREA
 NYSPCS EAST ZONE NAD83/2011
 N: 1871201.6194
 E: 593017.6847
 ELEV: 1568.66 NAVD88(GPS DERIVED)



⊕2 STA. 12+54.81
 DOCK SPIKE IN GRASS AREA
 NYSPCS EAST ZONE NAD83/2011
 N: 1871357.4587
 E: 593219.2845
 ELEV: 1567.83 NAVD88(GPS DERIVED)



⊕11 STA. 15+77.73
 DOCK SPIKE IN GRASS AREA
 NYSPCS EAST ZONE NAD 83/2011
 N: 1871514.8723
 E: 93501.2408
 ELEV: 2408.22 NAVD88(GPS DERIVED)

TABLE OF HORIZONTAL ALIGNMENT				
POINT	STATION	CURVE DATA	COORDINATE	
			NORTH	EAST
CAMPSITE ROAD				
POB	1+00.00	AZ 59°08'51.31" LENGTH = 378.29 FT	1871215.76	593015.07
PC	4+78.29	RADIUS = 600.00 FT DELTA = 2°12'11.92" RT LENGTH = 23.07 FT TANGENT = 11.54 FT	1871409.76	593339.84
PI	4+89.83		1871415.68	593349.74
PT	5+01.37	AZ 61°21'03.22" LENGTH = 164.38 FT	1871421.21	593359.87
PC	6+65.74	RADIUS = 830.00 FT DELTA = 9°25'38.78" LT LENGTH = 136.57 FT TANGENT = 68.44 FT	1871500.02	593504.12
PI	7+34.18		1871532.83	593564.18
PT	8+02.31	AZ 51°55'24.44" LENGTH = 19.99 FT	1871575.04	593618.05
POE	8+22.30		1871587.36	593633.79

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES BIN 3302040	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT					
	TOWN OF NEWCOMB					
	COUNTY: ESSEX	REGION: 1	ESTIMATE & BASELINE TIES			DRAWING NO. EQ-1 SHEET NO. 3 OF 39
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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
△	ADPI.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.	⊕	MFAP.P	FEE ACQUISITION, APPROX.	⊕	SRSC4	SHLD, CTY TOUR, 3-4 DIG.
⊕	APCC	POINT OF COMPOUND CURVATURE	ENVIRONMENTAL			⊕	ICTU	CONDUIT TURNING UP	⊕	MFP.P	FEE ACQUISITION, BACK LINE	⊕	SRS1	SHLD, INTERSTATE	⊕	ULP	LIGHTING, POLE
⊕	API	POINT OF INTERSECTION				⊕	ICVTRT	COMM. VEH. ROAD TRANSCEIVER	⊕	MFSP.P	FEE ACQUISITION, SHAPE	⊕	MFSP.P	FEE ACQUISITION, SHAPE	⊕	SRS2	SHLD, NATIONAL, 2 DIG.
⊕	APOB	POINT OF BEGINNING	ENVIRONMENTAL			+	IDFAULT	DEFAULT	⊕	MHBAP	HIGHWAY BNDRY., APPROX.	⊕	SRS3	SHLD, NATIONAL, 3 DIG.	⊕	ULPP	LIGHTING, POLE, PED.
⊕	APOC	POINT OF CURVATURE				⊕	IEZR	E-ZPASS READER	⊕	MHBCP	HISTORICAL, BLDG. CORNERS	⊕	MHBCP	HISTORICAL, BLDG. CORNERS	⊕	SRSS2	SHLD, STATE, 2 DIG.
⊕	APOE	POINT OF END	ENVIRONMENTAL			⊕	IEZTR	TRANSMITTAL READER	⊕	MHBP	HIGHWAY BNDRY, PT.	⊕	SRSS3	SHLD, STATE, 3 DIG.	⊕	UOLM	OIL, LINE MARKER
⊕	APOL	POINT ON LINE				⊕	IFOXCB	FIBER OPTIC X-CONNECT CABINET	⊕	MJCP	PT., JURIS. CITY	⊕	MJCP	PT., JURIS. CITY	⊕	SRSS4	SHLD, STATE, 4 DIG.
⊕	APOS	POINT ON SPIRAL	ENVIRONMENTAL			⊕	IFUSSPL	FUSION SPLICE	⊕	MPBC	PT., BUILDING CORNER	TRAFFIC CONTROL			⊕	UPD	POLE, DEAD (NO UTILITY)
⊕	APOT	POINT ON TANGENT				⊕	IHARADV	HAR ADVISORY SIGN	⊕	MPCC	PT., CROSS CUT				⊕	MPCC	PT., CROSS CUT
⊕	APOV	POINT ON VERTICAL CURVE	ENVIRONMENTAL			⊕	IHARST	HAR SITE	⊕	MPDH	PT., DRILL HOLE	⊕	TCBJ	BOX, JUNCTION	⊕	USMH	SANITARY SEWER MANHOLE
⊕	APOV	POINT ON VERTICAL TANGENT				⊕	ILC	LOAD CENTER	⊕	MPF	PT., FENCE LOCATION	⊕	MPF	PT., FENCE LOCATION	⊕	TCBP	BOX, PULL BOX
⊕	APORC	POINT ON REVERSE CURVE	ENVIRONMENTAL			⊕	IMECSPL	MECHANICAL SPLICE	⊕	MPIP	PT., IRON PIPE	⊕	TCBS	BOX, SPLICE	⊕	UTLM	TELEPHONE, LINE MARKER
⊕	APT	POINT OF TANGENCY				⊕	IMSCS	PORT. SPEED & COUNT SENSOR	⊕	MPIR	PT., IRON ROD	⊕	MPIR	PT., IRON ROD	⊕	TCMC	MICROCOMPUTER CABINET
⊕	APVC	POINT OF VERTICAL CURVATURE	ENVIRONMENTAL			⊕	IMSCTS	MICRO SPEED & COUNT SENSOR	⊕	MPM	PT., MONUMENT	⊕	TCPP	PED POLE	⊕	UTVLM	CABLE TV, LINE MARKER
⊕	APVCC	POINT OF VERT. CMPND CURVE				⊕	IMT	MICROWAVE TRANSCEIVER	⊕	MPMM	PT., MONUMENT, MISC.	⊕	MPMM	PT., MONUMENT, MISC.	⊕	TCSH	SIGNAL HEADS
⊕	APVI	POINT OF VERT. INTERSECTION	ENVIRONMENTAL			⊕	IOVHMS	PERM. OVERHEAD VMS	⊕	MPN	PT., NAIL	TRAFFIC WORK ZONE			⊕	UUB	UNKNOWN, BOX
⊕	APVRC	POINT OF VERT. REVERSE CURVE				⊕	IPASCS	PORT. ACCOU. SPD & CNT. SENSOR	⊕	MPRS	PT., RAILROAD SPIKE				⊕	MPRS	PT., RAILROAD SPIKE
⊕	APVT	POINT OF VERTICAL TANGENCY	ENVIRONMENTAL			⊕	IPEDS	PEDESTRIAN SIGNAL HEAD	⊕	MPSP	PT., SPIKE	⊕	TWZAP.P	ARROW PANEL	⊕	UUMH	UNKNOWN, MANHOLE
⊕	ASC	SPIRAL TO CURVE				⊕	IPSS	PAVEMENT SURFACE SENSOR	⊕	MPST	PT., STAKE	⊕	MPST	PT., STAKE	⊕	TWZAPC.P	ARROW PANEL, CAUTION MODE
⊕	ASPI	SPIRAL POINT OF INTERSECTION	ENVIRONMENTAL			⊕	IPVMS	PERM. VMS	⊕	MPTW	PT., TREE W/ WIRE	⊕	TWZAPT.P	ARROW PANEL, TRAILER OR SUPPORT	⊕	UUVL	UNKNOWN, VALVE
⊕	ASTS	SPIRAL TO SPIRAL				⊕	IRM	RAMP METER	⊕	MPWL	PT., WALL LOCATION	⊕	MPWL	PT., WALL LOCATION	⊕	TWZBCD.P	BARRICADE (TYPE III)
⊕	AST	SPIRAL TO TANGENT	ENVIRONMENTAL			⊕	IRWIS	RDWY WEATHER INFO. SENSOR	ROW ACQUISITION			⊕	TWZCMS.P	CHANGEABLE MESSAGE SIGN (PVMS)	⊕	UUW	UNKNOWN, WELL
⊕	ATS	TANGENT TO SPIRAL				⊕	ISP	SOLAR PANEL				⊕	MFS.P.T	FEE ACQUISITION	⊕	MFS.P.T	FEE ACQUISITION
⊕	AVEVT	VERTICAL EVENT POINT	ENVIRONMENTAL			⊕	ISST	SPREAD SPECT. TRANSCEIVER	⊕	MEPS.P.T	EASEMENT, PERMANENT	⊕	TWZFT.P	FLAG TREE	⊕	UWM	WATER, METER
⊕	AVHIGH	VERTICAL HIGH POINT				⊕	ITDB	TELEPHONE DEMARCATION BLK	⊕	METS.P.T	EASEMENT, TEMPORARY	⊕	METS.P.T	EASEMENT, TEMPORARY	⊕	TWZIA.P	IMPACT ATTENUATOR / CRASH CUSHION (TEMPORARY)
⊕	AVLOW	VERTICAL LOW POINT	ENVIRONMENTAL			⊕	ITP	SUBSURFACE TEMP. PROBE	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	TWZLUM.P	LUMINAIRE (TEMPORARY)	⊕	UWV	WATER, VALVE
BRIDGE						⊕	IVTRT	VEHICLE TO RDWY TRANSCEIVER	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	METS.P.T	OCCUPANCY, TEMPORARY	⊕	TWZSDT.P	SYMBOL, DIRECTION OF TRAFFIC
			⊕	IWIMD	WEIGHT IN MOTION DETECTOR	⊕	METS.P.T	FEE ACQUISITION W/O ACCESS	⊕	METS.P.T	FEE ACQUISITION W/O ACCESS	⊕	METS.P.T	FEE ACQUISITION W/O ACCESS	⊕	TWZSDTD.P	SYMBOL, DIRECTION OF TEMPORARY TRAFFIC DETOUR
CONTROL			⊕	IWVR	WIRELESS VIDEO REPEATER	ROADWAY			⊕	METS.P.T	FEE ACQUISITION W/O ACCESS	⊕	TWZSGN.P	SIGN (TEMPORARY)	NOTE: SEE LEGEND NOTES DWG. L-1		
			⊕	IWVRC	WIRELESS VIDEO RECEIVER				⊕	RES P	ELEVATION, SPOT	⊕	METS.P.T	FEE ACQUISITION W/O ACCESS			⊕
⊕	CBP	BASELINE, POINT	⊕	IWVTT	WIRELESS VIDEO TRANSMITTER	⊕	RGA	GUIDE RAIL, ANCHOR	⊕	RES P	ELEVATION, SPOT	⊕	TWZWL.P	WARNING LIGHT	NOTE: SEE LEGEND NOTES DWG. L-1		
⊕	CBPOL	BASELINE, POINT ON LINE	⊕	LTS	TREE, STUMP	⊕	RGP	GUIDE POST, SINGLE	⊕	RGA	GUIDE RAIL, ANCHOR	⊕	TWZVW.P	WORK VEHICLE			
⊕	CBSP	BASELINE, SPUR POINT	⊕	LTW P	TREE, WELL OR WALL	ROADWAY			⊕	RGP	GUIDE POST, SINGLE	⊕	TWZWVA.P	WORK VEHICLE WITH TRUCK MOUNTED ATTENUATOR	NOTE: SEE LEGEND NOTES DWG. L-1		
⊕	CBTP	BASELINE, TIE POINT	⊕	LUKP	UNKNOWN POINT				⊕	RGP	GUIDE POST, SINGLE	⊕	RGP	GUIDE POST, SINGLE			⊕
⊕	CPBM	BENCHMARK	ENVIRONMENTAL			ROADWAY			ROADWAY			ROADWAY			ROADWAY		
⊕	CPH	POINT, HORIZ. PHOTOGRAMMETRY															
⊕	CPSM	POINT, SURVEY MARKER, PERM.	ENVIRONMENTAL			ROADWAY			ROADWAY			ROADWAY			ROADWAY		
⊕	CPSV	POINT, VERT., PHOTOGRAMMETRY															

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			
	TOWN OF NEWCOMB				LEGEND - 2	DRAWING NO. LE-2
	COUNTY: ESSEX	REGION: 1				SHEET NO. 5 OF 39

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.

GENERAL NOTES:

LIVE LOAD: AASHTO HL-93

DESIGN SPECIFICATIONS: NYS DOT LRFD BRIDGE DESIGN SPECIFICATIONS WITH ALL PROVISIONS IN EFFECT AS OF FEBRUARY 2019 (FOR DESIGN PURPOSES, COMPRESSIVE STRENGTH OF CONCRETE FOR SUBSTRUCTURES AND DECK SLABS AT 28 DAYS: f'c = 3000 psi.)

CONSTRUCTION AND MATERIAL SPECIFICATIONS, CONSTRUCTION AND MATERIALS, NEW YORK STATE DEPARTMENT OF TRANSPORTATION, OFFICE OF ENGINEERING, DATED JANUARY 1, 2019 WITH CURRENT ADDITIONS AND MODIFICATIONS.

ALL SHOP DRAWINGS SUBMITTED FOR THIS PROJECT SHALL BE IN US CUSTOMARY UNITS. ERECTION DRAWINGS ARE TO BE PREPARED IN US CUSTOMARY UNITS.

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.

THE TEMPORARY STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH THE CURRENT NYS DOT LOAD AND RESISTANCE FACTOR DESIGN (LRFD) BRIDGE DESIGN SPECIFICATIONS FOR A DESIGN LIVE LOAD OF HL-93. ALTERNATIVELY, THE TEMPORARY STRUCTURE MAY BE DESIGNED IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES FOR A DESIGN LOAD OF HS20.

THIS BRIDGE SHALL BE MAINTAINED IN ACCORDANCE WITH THE GUIDELINES CONTAINED IN THE CURRENT EDITION OF THE AASHTO MAINTENANCE MANUAL FOR ROADWAYS AND BRIDGES.

THE LOAD RATINGS ARE IN ACCORDANCE WITH THE AASHTO MANUAL FOR BRIDGE EVALUATION.

FOR TEMPORARY STRUCTURES AND APPROACHES THE CONTRACTOR SHALL SUBMIT DETAILED PLANS AND DESIGN COMPUTATIONS STAMPED BY A NEW YORK STATE PROFESSIONAL ENGINEER TO THE ENGINEER. FOR REVIEW AND APPROVAL.

FOUNDATION NOTES:

ALL PLACEMENTS OF SELECT STRUCTURE FILL, ITEM 203.21, SHALL BE COMPACTED TO 95 PERCENT OF STANDARD PROCTOR MAXIMUM DENSITY.

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.

THE COST OF WATER USED FOR COMPACTION OF SELECT FILL ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 203.21 SELECT STRUCTURE FILL.

SUBSTRUCTURE NOTES:

THE PROVISIONS OF SECTION 555-3.11, CORRECTIVE FINISHING, WITH REGARD TO REMOVING RUST STAINS FROM CONCRETE EXPOSED TO VIEW ARE WAIVED. RUST STAINS SHALL NOT BE REMOVED FROM THE SUBSTRUCTURE ON THIS BRIDGE.

THE CONTRACTOR, WITH THE PERMISSION OF THE E.I.C., MAY ELECT TO INTRODUCE CONSTRUCTION JOINTS IN THE ABUTMENTS AT LOCATIONS NOT SHOWN ON THE PLANS. THESE CONSTRUCTION JOINTS SHALL BE PROVIDED WITH SHEAR KEYS AND WATERSTOPS. VERTICAL CONSTRUCTION JOINTS INTRODUCED IN THE BACKWALL SHOULD PREFERABLY BE PLACED MIDWAY BETWEEN THE PEDESTALS.

THE COST OF ALL MATERIAL AT EACH CONSTRUCTION JOINT, CONTRACTION JOINT AND CONCRETE EXPANSION JOINT SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS ITEMS OF THE CONTRACT, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

COFFERDAM AND HYDRAULIC NOTES:

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.

WHERE 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 FROM THE TYPE OF COFFERDAM SYSTEM CALLED FOR ON THE PLANS, THE ENGINEER-IN-CHARGE SHALL CONTACT THE DESIGN ENGINEER FOR COORDINATION WITH APPROPRIATE AGENCIES TO APPROVE THE CHANGE.

DEWATERING OF THE COFFERDAM SHALL BE ACCOMPLISHED BY PUMPING THE WATER TO AN APPROVED UPLAND VEGETATED AREA OUTSIDE OF THE STREAM BED 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 DETERMINED BY THE ENGINEER-IN-CHARGE. NO SETTLEMENT BASIN SHALL BE CONSTRUCTED.

ORDINARY HIGH WATER IS ESTIMATED TO BE 1559.81. 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 1555.00. 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 1553.00. 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.

SURVEY:

THE CONTRACTOR SHALL ESTABLISH ALL RIGHT-OF-WAY AND EASEMENT LIMITS IN ACCORDANCE WITH ITEM 625.01 SURVEY OPERATIONS. THE RIGHT-OF-WAY AND EASEMENT BOUNDARY POINTS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION.

HORIZONTAL COORDINATES AND ELEVATIONS ARE REPORTED IN SURVEY FEET ON AN ASSUMED COORDINATE SYSTEM.

HIGHWAY MAINTENANCE:

UPON COMPLETION AND ACCEPTANCE OF THIS CONTRACT, THE HIGHWAY AND BRIDGE WILL CONTINUE TO BE MAINTAINED BY THOSE AGENCIES WHICH HAD JURISDICTION PRIOR TO THIS CONTRACT.

CONTROL OF INVASIVE SPECIES NOTES:

ALL CONSTRUCTION EQUIPMENT WILL BE PRESSURE WASHED TO REMOVE SOIL CLUMPS AND DEBRIS PRIOR TO SHIPPING TO THE PROJECT SITE.

ALL SEED SPECIES (EXCEPT ANNUAL RYE AND PERENNIAL RYE GRASSES) SHALL BE NATIVE TO NEW YORK STATE. SEED SHALL MEET THE REQUIREMENTS OF NYS DOT MATERIAL SPECIFICATION 713-04 SEEDS.

CONTRACTOR SHALL MAINTAIN ALL SEEDED AREAS AGAINST INVASION AND GROWTH OF INVASIVE, NON-NATIVE SPECIES. PURPLE LOOSE STRIFE (LYTHRUM SALICARIA), COMMON REED (PHRAGMITES AUSTRALIS), AND REED CANARY-GRASS (PHALARIS ARUNDINACEA) SHALL BE DUG OR CAREFULLY PULLED IN ORDER TO GET ALL ROOTS WHEN OBSERVED INVADING THE SITE.

NO HAY BALES SHALL BE PERMITTED ON PROJECT SITE. STRAW BALES, ITEM 209.1202, WHICH MEET THE REQUIREMENTS OF NYS DOT MATERIAL SPECIFICATION 713-19- STRAW SHALL BE PERMITTED ON PROJECT SITE.

MULCH SHALL MEET THE REQUIREMENTS OF NYS DOT MATERIAL SPECIFICATION 713-11- WOOD FIBER MULCH.

EROSION, SEDIMENTATION AND TURBIDITY CONTROLS:

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, WILT, 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.

ALL WORK IN A FLOWING STREAM MUST BE KEPT TO A MINIMUM AND THE STREAM WATERS MUST BE PUMPED, PIPED OR OTHERWISE DIVERTED AROUND, OR SEPARATED FROM, THE WORK AREA.

STRAW OR HAY BALES OR OTHER DEVICES PLACED ACROSS THE STREAM DOWNSTREAM OF THE WORK SITE ARE NOT ACCEPTABLE POLLUTION CONTROLS.

ALL WATER PUMPED FROM COFFERDAMS, SETTLING BASINS, OR OTHER WORK AREAS MUST NOT BE ALLOWED TO FLOW BACK INTO A STREAM UNLESS IT IS FIRST FILTERED UNTIL IT IS AS CLEAN (NON-TURBID) AS THE STREAM WATERS FLOWING UPSTREAM OF THE WORK SITE.

UNDER NO CIRCUMSTANCES ARE WET CONCRETE, CEMENT, WASHINGS FROM CONCRETE TRUCKS, OILS, FUELS OR OTHER POLLUTANTS ALLOWED TO ENTER THE STREAM. ACCIDENTAL SPILLS ARE TO BE IMMEDIATELY CLEANED UP. ALL PETROLEUM SPILLS SHALL BE REPORTED AS REQUIRED BY REGULATION.

THE STREAM BELOW THE WORK SITE SHALL BE AS CLEAR AS THE STREAM ABOVE THE WORK SITE.

WORK SHALL BE PERFORMED FROM THE STREAM BANKS TO THE EXTENT POSSIBLE TO MINIMIZE THE USE OF EQUIPMENT IN THE STREAM. UNDER NO CIRCUMSTANCES IS EQUIPMENT TO OPERATE IN FLOWING WATER UNLESS AUTHORIZED IN WRITING OR BY ON-SITE DEC REPRESENTATIVE. GRAVEL REMOVED FROM A STREAM BED MUST BE PLACED BEYOND THE REACH OF NORMAL HIGH WATER. GRAVEL WILL NOT BE PUSHED UP ON STREAM BANKS OR SLOPES UNLESS SPECIFICALLY AUTHORIZED IN WRITING, NOR SHALL ANY BE USED TO CONSTRUCT ANY DIKE, LEVEE, BERM OR OTHER OBSTRUCTION TO HIGH FLOWS.

ALL WASTE MATERIAL (RUBBLE, SAND BLASTING AND CHIPPING WASTES AND RESIDUES, ETC.) RESULTING FROM CONSTRUCTION MUST BE COLLECTED AND MOVED TO AN APPROVED DISPOSAL AREA. NO MATERIAL SHALL BE ALLOWED TO ENTER, EITHER DIRECTLY OR INDIRECTLY, INTO ANY STREAM OR ANY FRESHWATER WETLAND.

ALL DISTURBED PORTIONS OF THE WORK AREA AND STREAM BANKS MUST BE GRADED TO A STABLE SLOPE, AND EITHER PROTECTED WITH RIP-RAP OR PLANTED WITH SUITABLE GRASSES, SHRUBS OR LEGUMES, AND/OR SEEDED WITH A CONSERVATION TYPE GRASS MIXTURE AND MULCHES. MULCH SHALL BE MAINTAINED UNTIL A SUITABLE VEGETATIVE COVER HAS BEEN ESTABLISHED. LIME AND FERTILIZER SHALL BE USED AS REQUIRED.

DISPOSAL OF CONSTRUCTION AND DEMOLITION DEBRIS:

THERE ARE NO AREAS WITHIN THE CONTRACT LIMITS AVAILABLE FOR DISPOSAL OF DEBRIS.

TREE REMOVALS:

THE CONTRACTOR SHALL USE CARE SO AS NOT TO REMOVE OR DAMAGE EXISTING TREES THAT ARE NOTED "TO REMAIN" OR ANY ADDITIONAL TREES BEYOND THE LIMITS OF WORK. SHOULD REMOVAL OR DAMAGE OCCUR TO ANY TREES THAT ARE BEYOND THE LIMITS OF WORK OR ANY TREES NOTED "TO REMAIN" THEY SHALL BE REPLACED IN-KIND BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE COUNTY.

TREES ARE TO BE CUT BETWEEN OCTOBER 1 AND MARCH 31 ONLY.

SUPERSTRUCTURE NOTES:

ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A709 GRADE 50.

THE STRUCTURAL STEEL FOR THIS BRIDGE INCLUDES CONTROLLED OXIDIZING STRUCTURAL STEEL ASTM A709 GRADE 50W OR 70W AND HAS THE FOLLOWING CLEANING REQUIREMENTS:

- A. IN THE FABRICATION SHOP GIRDEERS SHALL BE BLAST CLEANED IN ACCORDANCE WITH SSPC-SP6 (COMMERCIAL BLAST CLEANING). HEAVY COATINGS OF OIL OR GREASE SHALL BE REMOVED BEFORE BLASTING IN ACCORDANCE WITH SSPC-SP1 (SOLVENT CLEANING).
- B. IN THE FIELD THE OUTSIDE SURFACE OF THE FASCIA STRINGERS SHALL BE CLEANED SO THAT ALL DIRT, GREASE, PAINT OR OTHER FOREIGN MATERIAL IS REMOVED AT THE COMPLETION OF THE BRIDGE CONSTRUCTION. THE PURPOSE OF THE CLEANING IS TO RETURN THE FASCIA SURFACES TO THE CONDITION IN WHICH THEY LEFT THE FABRICATION SHOP.

THE COST OF CLEANING THIS STEEL IN THE FABRICATION SHOP AND THE FIELD SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS STRUCTURAL STEEL ITEMS IN THE CONTRACT.

THE STRUCTURAL STEEL FOR THIS BRIDGE SHALL BE PARTIALLY PAINTED. FINISH COAT COLOR SHALL BE WEATHERED BROWN GUIDE RAIL PAINT. THE COLOR SHALL CONFORM TO FEDERAL COLOR STANDARD 595, *20059. VIEWING SHALL BE DONE UNDER NORTH STANDARD DAYLIGHT. THE FOLLOWING PORTIONS OF THE STEEL SHALL BE PAINTED: ALL EXPOSED SURFACES OF THE STRINGERS THAT ARE EMBEDDED IN THE CONCRETE BACKWALL PLUS 1 FT PAST THE EXPOSED FACE OF ABUTMENT STEM INCLUDING ANY STIFFENERS OR CONNECTION PLATES. IN ADDITION, FOR BOTH FASCIA GIRDEERS, THE EXTERIOR FACE OF THE WEB, EXPOSED EXTERIOR PORTION OF THE TOP FLANGE, AND THE ENTIRE BOTTOM FLANGE, THERE ARE 2500 SQUARE FEET OF PAINTED STRUCTURAL STEEL ON THIS BRIDGE.

SUPERSTRUCTURE NOTES CONT'D:

FOR THE VARIOUS LUMP SUM STRUCTURAL STEEL ITEMS IN THE CONTRACT, THE "TOTAL WEIGHT FOR PROGRESS PAYMENT" IS AS FOLLOWS:

PROGRESS PAYMENT:	ITEM	TOTAL WEIGHT FOR PRGRESS PAYMENT	BIN
	564.0501	112973 LBS.	3302040

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.

DIAPHRAGMS SHALL BE FABRICATED TO FIT GIRDEERS ERECTED WITH THEIR WEBS PLUMB FOR THE STEEL DEAD LOAD CONDITION, ALSO KNOWN AS STEEL DEAD LOAD FIT (SDLF).

STEEL ERECTION NOTES:

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 AND REGISTERED NEW YORK STATE PROFESSIONAL ENGINEER AND SUBMITTED TO THE E.I.C. IN ACCORDANCE WITH THE SCM.

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 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 E.I.C., AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE COUNTY.

DIMENSIONS FOR THICKNESSES OF STEEL ROLLED ANGLE SHAPES AND STRUCTURAL TUBING ARE SHOWN ACCORDING TO THE AISC MANUAL.

SUPERSTRUCTURE SLAB NOTES

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(S) WILL BE PERMITTED: PERMANENT CORRUGATED METAL AND REMOVABLE WOODEN FORMS.

NO DEVIATIONS FROM THE HAUNCH DETAILS SHOWN ON THESE PLANS MAY BE MADE WITHOUT THE PERMISSION OF THE E.I.C.

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.

NO BAR LIST IS PROVIDED FOR SUPERSTRUCTURE SLABS, APPROACH SLABS, AND/OR SIDEWALKS. SECTION 557-3.17 OF THE SPECIFICATION SHALL APPLY, EXCEPT THAT THE ENGINEER WILL TRANSMIT THE DOCUMENTS TO THE DESIGNER FOR REVIEW FOR CONFORMANCE WITH THE DESIGN REQUIREMENTS. IN THE CONTRACT DOCUMENTS, A REVIEW TIME OF TWO DAYS PER PLACEMENT DRAWING SUBMITTED WITH A MINIMUM OF 15 DAYS FOR EACH SUBMISSION WILL BE ALLOWED UPON RECEIPT OF THE SUBMISSION. THE DESIGNER WILL NOT BE CHECKING LENGTHS, NUMBER OF BARS, WEIGHTS, OR BAR MARKS. CORRECTIONS WILL BE RETURNED TO THE CONTRACTOR. WHEN THE DOCUMENTS ARE SATISFACTORY THEY WILL BE RETURNED TO THE CONTRACTOR STAMPED "APPROVED IN ACCORDANCE WITH DESIGN REQUIREMENTS". PLACEMENT DRAWINGS REQUIRED SHALL INCLUDE PLAN VIEW DRAWINGS, SECTION VIEWS, TRANSVERSE SECTIONS, AND ANY OTHER DETAILS REQUIRED TO CLARIFY THE REBAR PLACEMENT.

RECONSTRUCTION NOTES:

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.

THE CONTRACTOR SHALL VERIFY DIMENSIONS NECESSARY FOR THE PROPER FIT OF STEEL PIECES PRIOR TO THE FABRICATION OF THE STEEL. THE COST OF FIELD VERIFYING DIMENSIONS SHALL BE INCLUDED IN THE PRICE BID FOR STRUCTURAL STEEL ITEMS.

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 COUNTY, 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 COUNTY, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR.

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.

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 PROVIDED.

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.

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.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES BIN 3302040	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT					
	TOWN OF NEWCOMB					
	COUNTY: ESSEX REGION: 1					
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.						



FILE NAME = N:\Projects\2017\117-050_Campsite\cadd\dgr\117-050_cpb.gmn_02.dgn
 DATE/TIME = 2/15/2019
 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT CHECK A. BROWN DRAFTING K. DETRICK CHECK K. DETRICK CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN

STREAM PROTECTION NOTES:

SEE ALSO EROSION, SEDIMENTATION AND TURBIDITY CONTROL NOTES.

HUDSON RIVER IS CLASSIFIED AS CLASS C(ITS) BODY OF WATER.

THE CONTRACTOR SHALL ACCOMPLISH IN-STREAM WORK DURING THE PERIOD BETWEEN MAY 1 AND SEPTEMBER 30. COFFERDAMS IN THE STREAM CHANNEL AND/OR STREAM DIVERSIONS OF THE CHANNEL SHALL NOT BE ALLOWED PRIOR TO JUNE 15 AND AFTER SEPTEMBER 30 WITHOUT PRIOR WRITTEN APPROVAL FROM THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION AND ESSEX COUNTY. COFFERDAMS AND STREAM DIVERSIONS SHALL BE SIZED WITH REGARD TO THE SEASONAL FLOW OF THE STREAM EXPECTED FOR THE TIME THEY ARE TO BE IN USE.

ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APA GENERAL PERMIT 2018-0126, USACOE PERMIT XXX NAN-XXX-XXX, AND THE NYSDEC PERMIT 5-1538-00034/00004.

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.

REMOVAL NOTES:

EXISTING SUBSTRUCTURE SHALL BE REMOVED WITHIN THE LIMITS SHOWN ON THE PLANS UNDER ITEM 202.19 IN THE BRIDGE ESTIMATE.

EXISTING SUPERSTRUCTURE SHALL BE REMOVED UNDER ITEM 202.120001 IN THE BRIDGE ESTIMATE.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE REQUIREMENTS OF SUBSECTION 202-3.01 GENERAL AND SAFETY REQUIREMENTS. A REMOVAL PLAN, SIGNED BY A LICENSED AND REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK, SHALL BE SUBMITTED TO THE ENGINEER THIRTY (30) DAYS PRIOR TO BEGINNING THE DEMOLITION.

RECORD PLANS FOR THIS STRUCTURE ARE NOT AVAILABLE.

SUPERSTRUCTURE (OR SUBSTRUCTURE) REMOVAL NOTES:
 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 571.03.

LOOSE AND/OR PEELING PAINT ON STEEL SURFACES MAY BECOME DISLODGED DURING REMOVAL OPERATIONS OR DURING TRANSPORTATION FROM THE SITE UNLESS APPROPRIATE MEASURES ARE TAKEN. THE CONTRACTOR SHALL FORMULATE AND SUBMIT A METHOD OF REMEDIATING THE CONDITION FOR APPROVAL BY THE ENGINEER. WORKER LEAD PROTECTION IN ACCORDANCE WITH OSHA 1926.62 MUST BE SATISFIED. ALTERNATIVES COULD INCLUDE TRANSPORTING AFFECTED MEMBERS IN CLOSED TRUCKS, WRAPPING AFFECTED MEMBERS PRIOR TO REMOVAL, ENCAPSULATING THE LOOSE PAINT OR REMOVAL OF LOOSE PAINT PRIOR TO DISMANTLING OPERATIONS. THE COST OF REMEDIATING THIS CONDITION 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.) THE USE OF ENVIRONMENTAL GROUND/WATERWAY PROTECTION ITEMS 570.09 & 570.10 WILL BE REQUIRED. DEPENDING ON THE ALTERNATIVE CHOSEN, THE TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE ITEM MAY BE REQUIRED. BECAUSE OF THE ABOVE MENTIONED CONDITION, THE CONTRACTOR SHOULD EXAMINE THE CONDITION OF THE STRUCTURE'S PAINT PRIOR TO SUBMITTING A BID.

REFER TO SUBSECTION 107-05 OF THE STANDARD SPECIFICATIONS FOR SAFETY AND HEALTH REQUIREMENTS.

THE CONTRACTOR SHALL SUBMIT A LEAD EXPOSURE CONTROL PLAN PAID FOR UNDER ITEM 570.01.

UTILITY NOTES:

THE CONTRACTOR SHALL COOPERATE IN EVERY WAY WITH THE UTILITY OWNERS, AND SHALL SCHEDULE WORK IN SUCH A WAY AS TO COMPLY WITH SHUTDOWN TIMES AND ANY OTHER REQUIREMENTS OF THE UTILITY OWNERS. NO ADDITIONAL PAYMENTS WILL BE MADE FOR ANY COST INCURRED DUE TO COMPLYING WITH UTILITY OWNER REQUIREMENTS. SUCH COSTS WILL BE INCLUDED IN PRICES BID FOR VARIOUS ITEMS IN THE CONTRACT.

THE FOLLOWING UTILITIES WILL BE ENCOUNTERED IN THE FIELD:

- A. ELECTRIC: NYSEG
- B. TELEPHONE: FRONTIER
- C. CABLE: FRONTIER
- D. FIBER: FRONTIER

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE "COORDINATION WITH UTILITIES" SPECIAL NOTE IN THE PROJECT MANUAL.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES BIN 3302040	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT					
	TOWN OF NEWCOMB					
	COUNTY: ESSEX REGION: 1					
GENERAL NOTES - 2					DRAWING NO. GN-2	SHEET NO. 7 OF 39

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.



FILE NAME = N:\Projects\2017\117-050_Campsite\cadd\dgr\117-050-cpb-wztc.01.dgn
 DATE/TIME = 2/15/2019
 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT CHECK A. BROWN DRAFTING K. DETRICK CHECK A. BROWN PROJECT MANAGER A. BROWN CHECK K. DETRICK PROJECT MANAGER C. TUTUNJIAN

WORK ZONE TRAFFIC CONTROL NOTES:

1. GENERAL NOTES

- A. WORK ZONE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 - WORK ZONE TRAFFIC CONTROL - OF THE NYS DOT STANDARD SPECIFICATIONS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, NYS DOT STANDARD SHEETS 619 SERIES, AND ANY PROVISIONS CONTAINED IN THESE PLANS.
- B. THE TYPICAL DETAILS DEPICTED ON THE STANDARD SHEETS, THE TRAFFIC CONTROL PLANS, AND IN THE MUTCD REFLECT THE MINIMUM REQUIREMENTS. ADDITIONAL SIGNS AND/OR TRAFFIC CONTROL DEVICES MAY BE REQUIRED AS DETERMINED BY THE ENGINEER, COST TO BE INCLUDED IN THE PRICE BID FOR THE APPROPRIATE ITEMS. IF AT ANY TIME THE ENGINEER DETERMINES THAT TRAFFIC IS NOT BEING PROPERLY MAINTAINED WITHIN A WORK ZONE, THE CONTRACTOR SHALL IMMEDIATELY CORRECT THE INDICATED DEFICIENCY, AOB.
- C. THE CONTRACTOR MUST SUBMIT TO THE ENGINEER, IN WRITING, PROPOSED REVISIONS TO THE TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE COUNTY FIVE (5) WORKING DAYS PRIOR TO THE PLANNED IMPLEMENTATION OF SUCH PROPOSED REVISIONS, EXCEPT FOR CHANGES THAT ALTER THE BASIC CONCEPT OF THE TRAFFIC CONTROL PLAN. SUCH CONCEPTUAL CHANGES MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL BY THE COUNTY THIRTY (30) WORKING DAYS PRIOR TO IMPLEMENTATION OF SUCH REVISIONS.
- D. THE CONTRACTOR SHALL PROVIDE THE ENGINEER, IN WRITING, WITH THE NAMES, ADDRESSES, AND TELEPHONE NUMBERS OF STAFF WHO ARE AUTHORIZED TO SECURE LABOR, MATERIALS, AND EQUIPMENT FOR EMERGENCY REPAIRS OUTSIDE NORMAL WORKING HOURS. THE ENGINEER WILL PROVIDE THE SUBMITTED INFORMATION TO NYS DOT, REGIONAL MANAGEMENT, THE NEW YORK STATE POLICE, THE RESIDENT ENGINEER, THE TOWN, THE COUNTY, AND THE LOCAL POLICE.
- E. PRIOR TO THE START OF ANY WORK OPERATIONS, ALL RELATED WORK FOR PROPOSED WORK ZONE TRAFFIC CONTROL, AOB, SHALL BE COMPLETE. THIS INCLUDES BUT IS NOT LIMITED TO, ALL SIGNS, SIGNALS, PAVEMENT MARKINGS, BARRIERS, DELINEATION (CONES, DRUMS, ETC.) FLAGGERS, PAVEMENT MODIFICATIONS, AND ANY OTHER RELATED WORK.
- F. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SAFE AND ADEQUATE INGRESS AND EGRESS TO AND FROM INTERSECTION HIGHWAYS, HOMES AND COMMERCIAL ESTABLISHMENTS AT ALL TIMES TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ITEM 619.01 SECTION 619-3.02(C).

2. STANDARD SHEETS 619-10, 11, AND 12 CRITERIA

- A. PRECONSTRUCTION POSTED SPEED LIMIT: 35 MPH
- B. TYPE OF ROADWAY: CONVENTIONAL ROAD
- C. SETTING: RURAL

3. TIME / DATE RESTRICTIONS

- A. THE CONTRACTOR SHALL NOT BEGIN WARMING UP EQUIPMENT BEFORE THE SCHEDULED START TIMES, NOR KEEP THE EQUIPMENT RUNNING AFTER THE SCHEDULED QUIT TIMES. MAINTENANCE OF EQUIPMENT ON SITE WHICH REQUIRES THE EQUIPMENT TO BE RUNNING SHALL BE APPROVED BY THE ENGINEER IF THE MAINTENANCE IS PERFORMED OUTSIDE THE WORK HOUR RESTRICTIONS.
- B. THERE SHALL BE NO WORK OPERATIONS ALLOWED BEFORE SUNRISE OR AFTER SUNSET WITHOUT APPROVAL OF THE COUNTY/ENGINEER AND AN APPROVED LIGHTING PLAN. THE LIGHTING PLAN SHALL BE APPROVED PRIOR TO THE START OF WORK BY THE ENGINEER. PAYMENT FOR NIGHT WORK SHALL BE INCLUDED UNDER THE LUMP SUM PRICE BID FOR ITEM 619.24.

4. CONSTRUCTION VEHICLES, EQUIPMENT, AND MATERIALS

- A. THE CLEAR ROADSIDE AREA IS DEFINED AS THE AREA WITHIN 10 FEET OF THE EDGE OF THE TRAVEL WAY.
- B. CONTRACTOR VEHICLES NOT IN USE AND PRIVATE VEHICLES OWNED BY CONTRACTOR'S EMPLOYEES SHALL NOT BE PARKED IN THE CLEAR ROADSIDE AREA, OR ANY OTHER LOCATION CONSIDERED BY THE ENGINEER TO BE A HAZARD. THIS REQUIREMENT IS NOT LIMITED TO THE CONTRACT LIMITS.
- C. NO MATERIAL IS TO BE STORED WITHIN THE CLEAR ROADSIDE AREA WITHOUT THE APPROVAL OF THE ENGINEER.
- D. VEHICLES BELONGING TO THE CONTRACTOR OR THE CONTRACTOR'S EMPLOYEES SHALL NOT BE PARKED IN A MANNER WHICH OBSTRUCTS SIGNS, BARRIERS, BARRICADES, OR OTHER TRAFFIC CONTROL DEVICES.
- E. VEHICLES BELONGING TO THE CONTRACTOR OR THE CONTRACTOR'S EMPLOYEES SHALL NOT BE PARKED IN A MANNER WHICH INTERFERES WITH ACCESS TO ADJUTING PROPERTIES.
- F. THE CONTRACTOR SHALL PLAN AND INCORPORATE ACCESS POINTS INTO THE WORK ZONE SUCH THAT, TO THE EXTENT PRACTICAL, THE CONTRACTOR'S VEHICLES ENTERING AND LEAVING THE WORK ZONE SHALL NOT IMPEDE THE MOVEMENT OF THROUGH TRAFFIC IN THE ADJACENT OPEN LANES.

5. CHANNELIZING DEVICES

- A. WHERE POSSIBLE ALL CHANNELIZING AND GUIDING DEVICES ARE TO BE PLACED SO AS TO PROVIDE A MINIMUM 1 FOOT LATERAL CLEARANCE TO THE TRAVELED WAY.
- B. THE CONTRACTOR SHALL NOT MIX CHANNELIZATION DEVICES IN A LINEAR CLOSURE OR TAPER I.E. CONES, VERTICAL PANELS AND DRUMS SHALL NOT BE USED IN THE SAME TAPER OR CLOSURE. HOWEVER, DIFFERENT CHANNELIZATION DEVICES MAY BE USED IN DIFFERENT AREAS OF A PROJECT.
- C. REFLECTORIZED PLASTIC DRUM DELINEATORS SHALL BE USED AT HAZARDOUS LOCATIONS DETERMINED BY THE ENGINEER. DELINEATORS SHALL REMAIN IN PLACE UNTIL SATISFACTORY PROTECTION IS PROVIDED. DELINEATORS SHALL BE SPACED AT A DISTANCE NOT TO EXCEED 25 FEET, OR AS DIRECTED BY THE ENGINEER.

6. FLAGGING AND TRAFFIC CONTROL

- A. FLAGGER SIGNS SHALL NOT BE USED FOR BRIEF PERIODS OF INCIDENTAL FLAGGING, AOB. FLAGGER SIGNS SHALL NOT BE VISIBLE WHEN FLAGGERS ARE NOT BEING USED.
- B. WHEN A SIDE ROAD OR DRIVEWAY INTERSECTS THE ROADWAY WITHIN A WORK ZONE TRAFFIC CONTROL AREA, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES AND/OR FLAGGERS SHALL BE PLACED AS NEEDED. ADDITIONAL FLAGGERS SHALL BE LOCATED AS NEEDED AT ALL INTERSECTIONS AND COMMERCIAL DRIVEWAYS LOCATED WITHIN OR NEAR THE ACTIVE WORK SPACE.

7. SIGNS AND DEVICES

- A. DIAMOND-SHAPED ADVANCE WARNING SIGNS SHALL BE USED FOR ALL ADVANCE WARNING SIGNS SHOWN IN PART 6 OF THE MUTCD. COLOR REQUIREMENTS SHALL BE BLACK TEXT ON ORANGE BACKGROUND.
- B. THE CORRECT SPACING OF SIGNS, EITHER PERMANENT OR TEMPORARY MUST BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH THE MUTCD UNLESS SHOWN OTHERWISE ON THE PLANS. ALL SIGNS INCLUDING GUIDE SIGNS SHALL INDICATE ACTUAL CONDITIONS AT ALL TIMES AND SHALL BE COVERED, MOVED, REMOVED, OR CHANGED IMMEDIATELY AS ORDERED BY THE ENGINEER.
- C. THE LOCATION OF THE SIGNS SHOWN ON THE WORK ZONE TRAFFIC CONTROL PLANS AND DETAILS MAY BE ADJUSTED BASED ON SIGHT DISTANCE AND OTHER CONSIDERATIONS. THE FINAL LOCATIONS OF SIGNS ARE SUBJECT TO APPROVAL OF THE ENGINEER.
- D. ANY EXISTING SIGNS, INCLUDING OVERHEAD SIGNS, WHICH CONFLICT WITH THE TEMPORARY TRAFFIC CONTROL SIGNS LAYOUT SHALL BE COVERED, REMOVED, STORED OR RESET, AS APPROVED BY THE ENGINEER. ALL APPROPRIATE EXISTING SIGNS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND/OR LOCATION UNLESS OTHERWISE REPLACED IN THIS CONTRACT.
- E. SIGNS AT OR NEAR INTERSECTIONS SHALL BE PLACED SO THAT THEY DO NOT OBSTRUCT A MOTORIST'S LINE OF SIGHT.
- F. ALL WARNING AND REGULATORY SIGNS SHALL BE POSTED ON BOTH SIDES OF ONE-WAY STREETS. IN CASES WHERE LANE RESTRICTIONS REDUCE THE TRAVEL LANE TO ONE LANE, SIGNS SHALL BE POSTED ON THE RIGHT SIDE OF THE ACTIVE TRAVEL LANE, UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.
- G. THE DIMENSIONS OF WORK ZONE TRAFFIC CONTROL SIGNS TO BE USED FOR THIS PROJECT ARE DESCRIBED IN THE MUTCD AND THE NYS DOT STANDARD SHEET SERIES 619.

8. NOTIFICATION AND EMERGENCY ACCESS

- A. THE CONTRACTOR IS REQUIRED TO CONTACT THE APPROPRIATE SCHOOL AND EMERGENCY SERVICES ORGANIZATIONS WITH RESPECT TO THE EFFECT OF ROAD WORK, TRAVEL LANE REDUCTIONS, AND DETOURS ON OPERATIONS. THIS CONTACT SHALL BE MADE AS CONDITIONS CHANGE AND AT LEAST TWO WEEKS PRIOR TO IMPLEMENTING EACH TRAFFIC PHASE AND/OR DETOUR TO ALLOW ADEQUATE TIME FOR THE ORGANIZATIONS TO COORDINATE AND MAKE NECESSARY ADJUSTMENTS TO RESPONSE SCHEDULES AND ROUTES.

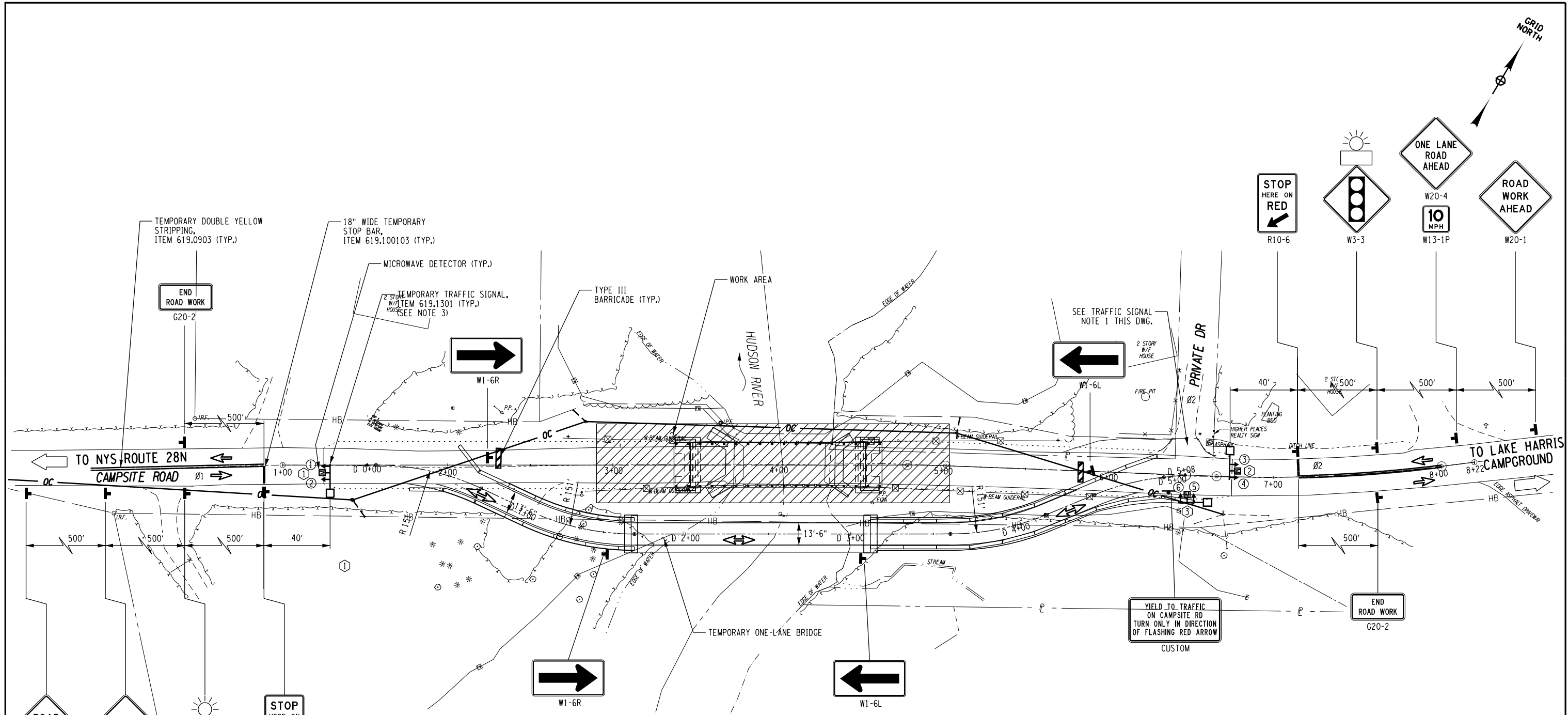
9. BICYCLISTS AND PEDESTRIANS

- A. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN AND BICYCLE TRAFFIC THROUGH OR AROUND EACH WORK AREA FOR THE DURATION OF THE CONSTRUCTION. MATERIAL, EQUIPMENT OR OTHER SUCH BARRIERS SHALL NOT BE PLACED OR PARKED IN SUCH A MANNER AS TO OBSTRUCT PEDESTRIAN OR BICYCLE TRAFFIC OR TO PRESENT A SAFETY HAZARD TO THE NON-MOTORIZED PUBLIC. WHERE PEDESTRIAN TRAFFIC MUST BE RELOCATED OFF THE EXISTING FACILITY WALKWAYS SHALL BE CLEARLY MARKED AND HAVE A LOGICAL START AND TERMINUS.
- B. TEMPORARY SAFETY FENCING SHALL BE PLACED ALONG ANY SIDEWALK ADJACENT TO ANY EXCAVATION OR VERTICAL DROP-OFF OVER 6 INCHES. SAFETY FENCING SHALL BE CONTINUOUS PLASTIC FLUORESCENT ORANGE SUPPORTED BY METAL OR WOOD POSTS. THE FENCING SHALL BE A MINIMUM OF 4 FEET IN HEIGHT AND MAY INCLUDE A TOP AND BOTTOM RAIL TO PROVIDE ADDITIONAL SUPPORT, AOB. THE SAFETY FENCE SHALL CONFORM TO SECTION 107-05 OF THE STANDARD SPECIFICATIONS. ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL AND REMOVE TEMPORARY SAFETY FENCING SHALL BE INCLUDED IN THE PRICE BID FOR BASIC WORK ZONE TRAFFIC CONTROL, ITEM 619.01.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES BIN 3302040	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT					
	TOWN OF NEWCOMB					
	COUNTY: ESSEX REGION: 1					
WORK ZONE TRAFFIC CONTROL - 1					DRAWING NO. WZTC-1	SHEET NO. 8 OF 39

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.





- TRAFFIC SIGNAL NOTES:**
1. DRIVEWAY EGRESS WILL BE CONTROLLED BY THE SIGNAL SYSTEM.
 2. THE CONTRACTOR SHALL POST A CONSTRUCTION SIGN AT LEAST 5 DAYS PRIOR TO CLOSING ONE LANE OF TRAFFIC INDICATING THE DATE THAT THE LANE WILL CLOSE.
 3. THE "EACH LOCATION" PAY UNIT FOR THE TEMPORARY SIGNALS REFERS TO EACH COMPLETE SIGNAL SYSTEM. EQUIPMENT FOR BOTH APPROACHES AND DRIVEWAYS ON THIS PROJECT ARE INCLUDED IN THE BID QUANTITY OF "1" EACH LOCATION."
 4. TO RECONSTRUCT APPROACH LANES, CONTRACTOR SHALL COVER SIGNAL HEADS AND UNNEEDED SIGNAGE AND USE FLAGGER CONTROL TO ALTERNATE WORK ZONE TRAFFIC.

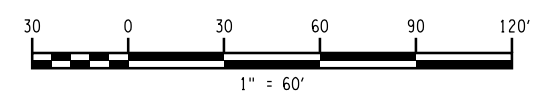
- CONSTRUCTION SEQUENCE NOTES:**
1. INSTALL TEMPORARY BRIDGE AND ROADWAY UPSTREAM OF EXISTING BRIDGE.
 2. CONSTRUCT TEMPORARY STRUCTURE AND APPROACHES. SET UP WORK ZONE TRAFFIC CONTROLS AND SHIFT TRAFFIC TO TEMPORARY DETOUR ROAD.
 3. REMOVE EXISTING BRIDGE AND CONSTRUCT NEW BRIDGE IN SINGLE STAGE.
 4. MOVE TRAFFIC BACK TO NEW BRIDGE.
 5. REMOVE TEMPORARY BRIDGE AND ROADWAY.
 6. RECONSTRUCT IMPACTED WETLANDS AND COMPLETE FINAL GRADING AND TURF ESTABLISHMENT.

TRAFFIC SIGNAL LEGEND

←	SIGNAL HEAD
⊞	MICROWAVE DETECTOR
①	DETECTOR NUMBER
Ø	PHASE NUMBER

LEGEND

▬	TEMPORARY CONCRETE BARRIER, TO BE PAID FOR UNDER TEMPORARY BRIDGE AND APPROACHES ITEM,
▨	TYPE III CONSTRUCTION BARRICADE, ITEM 619.04
⊞	TEMPORARY CONSTRUCTION SIGN



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER	
	BRIDGE REPLACEMENT PROJECT		BIN 3302040				
	TOWN OF NEWCOMB	REGION: 1				WORK ZONE TRAFFIC CONTROL - 2	DRAWING NO. WZTC-02
	COUNTY: ESSEX						SHEET NO. 9 OF 39

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.

TABLE OF OPERATIONS						
PHASE	SIGNAL FACES					
	1	2	3	4	5	6
Ø1	G	G	R	R	←FR	→FR
Ø2	R	R	G	G	←FR	→FR
FLASHING OPERATION	FR	FR	FR	FR	FR	FR
DISPLAY						
ALL LENSES SHALL BE 12" DIA. (300 MM)	(R)	(R)	(R)	(R)	(FR)	(FR)
	(Y)	(Y)	(Y)	(Y)	(FR)	(FR)
	(G)	(G)	(G)	(G)	(FR)	(FR)

(FR) = FLASHING RED RIGHT ARROW MODULE
 (FR) = FLASHING RED LEFT ARROW MODULE

TABLE OF CLEARANCES		
TO	FROM	
	R	G
R	R	Y
	R	R
G	R	G
	R	G

INITIAL TIMING TABLE			
PHASE	INDICATION		
	GREEN	YELLOW	RED
Ø1	16	4	50
Ø2	16	4	50

- NOTES:**
- REST IN SOLID RED DURING OPERATIONS IN WHICH NO VEHICLES ARE DETECTED
 - AFTER PHASE 2 HAS COMPLETED, IT SHALL ALWAYS BE FOLLOWED BY PHASE 1, BEFORE RETURNING TO PHASE 2 OR REST IN RED.

TABLE OF NEW MICROWAVE DETECTORS			
NUMBER	PHASE	TYPE	WIRING
①	Ø1	MICROWAVE	DIRECT
②	Ø2	MICROWAVE	DIRECT
③	Ø3	MICROWAVE	DIRECT

TRAFFIC SIGNAL AND GENERAL NOTES:

- ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH NEW YORK STATE STANDARD SHEETS 680-07 THRU 680-17 INCLUSIVE, AS APPLICABLE, EXCEPT AS MODIFIED BELOW OR IN THE CONTRACT PLANS.
- WHERE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA) SPECIFICATION EQUIPMENT IS TO BE INSTALLED, SUCH EQUIPMENT SHALL MEET ALL REQUIREMENTS OF N.E.M.A. SPECIFICATION TS2-2003 AS AMENDED.
- THE CONTRACTOR SHALL MAINTAIN EACH SIGNAL IN CONTINUOUS OPERATION AS SPECIFIED BY THE TABLE OF OPERATIONS FOR AS LONG AS ONE-LANE, TWO-WAY OPERATIONS EXIST.
- THE CONTRACTOR SHALL HAVE ALL CONVENTIONAL, N.E.M.A. OR INTERSECTION FLASHER EQUIPMENT (TO BE INSTALLED), INSPECTED BY COUNTY SIGNAL MAINTENANCE FORCES BEFORE THE SIGNAL IS ENERGIZED. THE CONTRACTOR SHALL MAINTAIN EACH SIGNAL IN CONTINUOUS OPERATION AS SPECIFIED BY THE TABLE OF OPERATIONS FOR AS LONG AS ONE-LANE, TWO WAY OPERATIONS EXIST.
- WORK ZONE TRAFFIC CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 619 - WORK ZONE TRAFFIC CONTROL - OF THE NYSOT STANDARD SPECIFICATIONS, THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH NEW YORK STATE SUPPLEMENT AND ANY PROVISIONS CONTAINED IN THE PLANS. THE CONTRACTOR SHALL INSTALL SIGNS ON ALL LEGS OF AN INTERSECTION PRIOR TO WORKING AT THAT INTERSECTION.
- THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A TRAFFIC SIGNAL SHALL INCLUDE MAINTAINING VEHICLE DETECTORS ON A VEHICLE ACTUATED INSTALLATION. IF A VEHICLE DETECTOR BECOMES INOPERATIVE, THE CONTRACTOR SHALL REPAIR IT, REPLACE IT, OR, IF A NEW COMPATIBLE DETECTOR IS CALLED FOR IN THE PLANS, HE MAY, WITH THE PERMISSION OF THE E.I.C., CONNECT THE NEW DETECTOR INTO THE EXISTING SYSTEM. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE A 24/7 EMERGENCY CONTACT TO THE COUNTY IN CASE THE SIGNAL MALFUNCTIONS. THE CONTRACTOR SHALL BE REQUIRED TO FIX THE SIGNAL IMMEDIATELY.
- ALL SIGNAL IMPROVEMENTS SHOWN ON THE PLANS, INCLUDING LANE DESIGNATION SIGNS, TURNING LANES, CHANNELIZATION, PAVEMENT MARKINGS, ETC., SHALL BE IN PLACE BEFORE THE NEW SIGNAL SYSTEM IS PLACED INTO OPERATION. THE CONTRACTOR SHALL WORK WITH THE COUNTY TO COORDINATE THESE OPERATIONS.
- THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY THAT WILL BE SUPPLYING POWER TO THE TRAFFIC SIGNAL EQUIPMENT AT EACH INTERSECTION WITHIN 30 DAYS OF THE CONTRACT AWARD. THE CONTRACTOR SHALL MEET ALL REQUIREMENTS OF THE NEW YORK BOARD OF FIRE UNDERWRITERS IN THEIR SIGNAL INSTALLATIONS AND EACH INSTALLATION MUST PASS A FIRE UNDERWRITERS INSPECTION BEFORE SERVICE CONNECTION WILL BE MADE BY THE UTILITY COMPANY. THE COST OF THE INSPECTION SHALL BE INCLUDED IN THE PRICE BID FOR THE VARIOUS TRAFFIC SIGNAL ITEMS.
- IF IT IS DISCOVERED THAT THE MINIMUM CLEARANCE FROM THE TEMPORARY TRAFFIC SIGNALS TO PRIMARY AND/OR SECONDARY POWER CONDUCTORS AS REQUIRED BY SECTION 23 OF THE NATIONAL ELECTRICAL SAFETY CODE (ANSI STANDARD C2-1997) AND LOCAL UTILITY CODES CANNOT BE ACHIEVED, NO FURTHER WORK SHALL BE DONE UNTIL SAID CLEARANCES HAVE BEEN PROVIDED.
- THE TEMPORARY SIGNAL SHALL BE PLACED INTO YELLOW FLASHING OPERATIONS A MINIMUM OF 5 DAYS BEFORE ONE-LANE, TWO-WAY TRAFFIC CONTROL BEGINS. WHEN NOT IN FLASHING OR 3-COLOR OPERATIONS, THE CONTRACTOR SHALL COVER THE SIGNAL HEADS OR TAKE THEM DOWN TO INDICATE THE SIGNAL IS NOT IN OPERATION.
- UNDER NO CONDITION SHALL THE CONTRACTOR MAKE THE SERVICE CONNECTION. ALL SERVICE CONNECTIONS SHALL BE MADE BY THE APPROPRIATE UTILITY COMPANY.
- THE BOTTOMS OF ALL TRAFFIC SIGNAL HEADS SHALL BE LOCATED AT LEAST 17' ABOVE PAVEMENT SURFACE.
- AT LOCATIONS WHERE 3-COLOR TRAFFIC SIGNAL IS TO BE INSTALLED AND NO 3-COLOR SIGNAL EXISTS, NEW "SIGNAL AHEAD" SIGNS (MUTCD W3-3, 36"x36") SHALL BE INSTALLED BY THE CONTRACTOR ON EACH APPROACH TO THE INTERSECTION. "TYPE B" FLASHING YELLOW HIGH INTENSITY WARNING LIGHTS SHALL BE INSTALLED ON THESE SIGNS FOR THE DURATION THAT THE SIGNAL OPERATES AS A 3-COLOR SIGNAL. THE COST OF THESE FLAGS AND WARNING LIGHTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 619.01 - BASIC WORK ZONE TRAFFIC CONTROL.
- ALL PHASES SHALL BE MICROWAVE DETECTED AND HAVE 12 INCH SIGNAL FACES.
- ALL SIGNAL FACES SHALL FLASH RED UNDER FLASHING OPERATIONS DURING ONE-LANE, TWO-WAY SIGNAL CONTROL, EXCEPT FOR 3- COLOR SIGNAL CONTROL.
- APPROACH STOP BARS SHALL BE NO CLOSER THAN 40 FT FROM THE APPROACH SIGNAL FACES AND NOT FURTHER THAN 140 FT.
- THE INITIAL SIGNAL TIMINGS PROVIDE A CLEARANCE INTERVAL ASSUMING NO MORE THAN 680' BETWEEN STOP BARS. IF THE ACTUAL WORK ZONE LAYOUT INCREASES THIS DISTANCE, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR REVISED TIMINGS.
- THE CONTRACTOR SHALL NOTIFY RESIDENTS AND BUSINESSES WITH DRIVEWAY(S) WITHIN THE WORK ZONE AS TO HOW THE TRAFFIC SIGNAL SYSTEM FUNCTIONS AND WHAT THE SIGNAL INDICATIONS MEAN.

THE CONTRACTOR SHALL PREPARE, AND HAVE APPROVED BY THE COUNTY, AN EDUCATIONAL PAMPHLET TO PROVIDE TO RESIDENTS AND BUSINESSES WITHIN THE WORK ZONE.

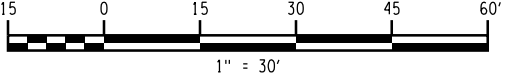
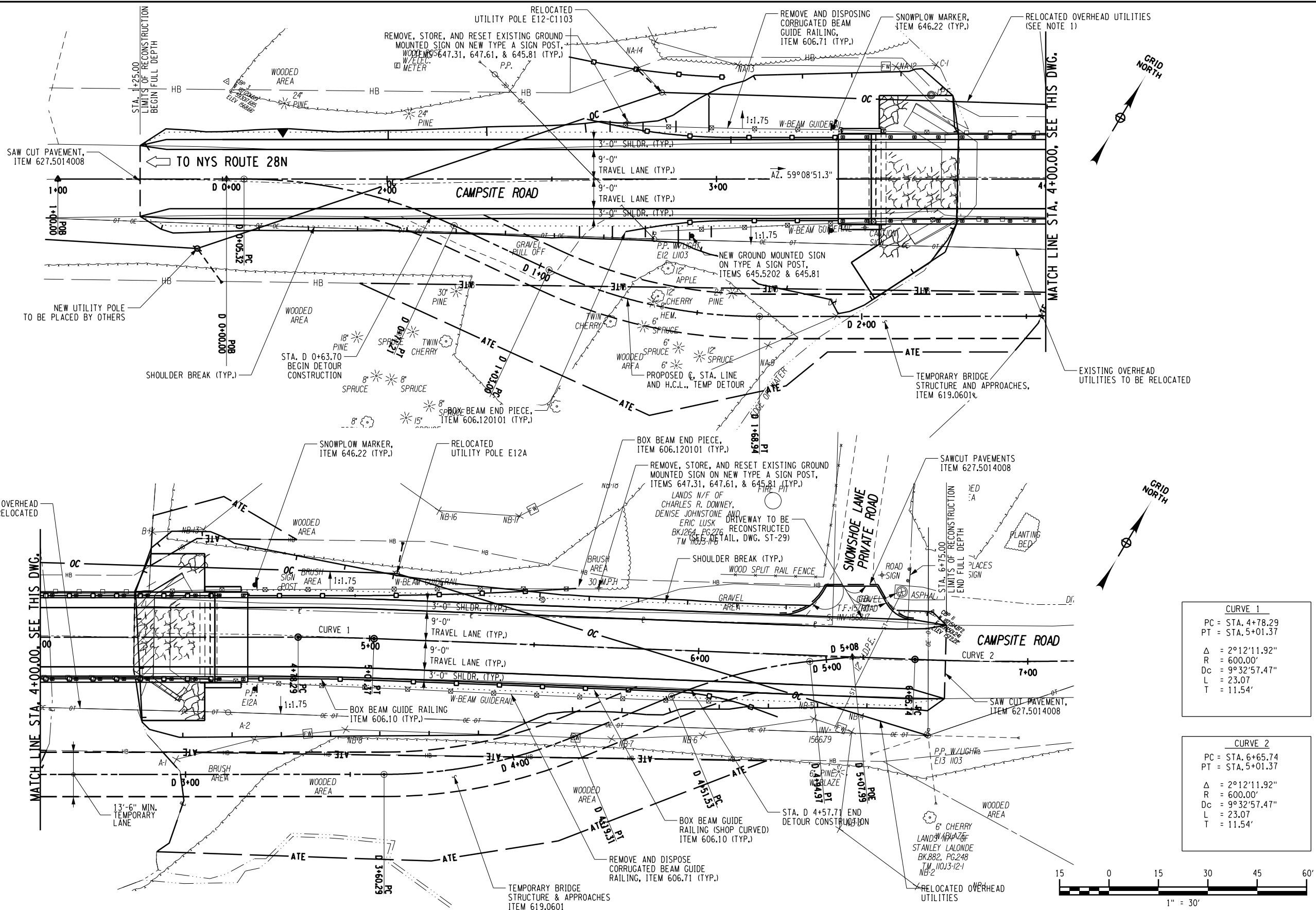
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES BIN 3302040	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT					
	TOWN OF NEWCOMB					
	COUNTY: ESSEX REGION: 1					
WORK ZONE TRAFFIC CONTROL - 3					DRAWING NO. WZTC-3	
					SHEET NO. 10 OF 39	

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 = 2/15/2019
 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT DRAFTING K. DETRICK CHECK A. BROWN CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN



CURVE 1	
PC =	STA. 4+78.29
PT =	STA. 5+01.37
Δ	= 2°12'11.92"
R	= 600.00'
Dc	= 9°32'57.47"
L	= 23.07'
T	= 11.54'

CURVE 2	
PC =	STA. 6+65.74
PT =	STA. 5+01.37
Δ	= 2°12'11.92"
R	= 600.00'
Dc	= 9°32'57.47"
L	= 23.07'
T	= 11.54'

- NOTES:**
- UTILITIES TO BE RELOCATED BY OTHERS, CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES. SEE UTILITY COORDINATION SPECIAL NOTE.
 - ESSEX COUNTY TO CUT TREES FOR PROJECT PRIOR TO MARCH 31ST, CONTRACTOR TO CLEAR FELLED TREES AND STUMPS UNDER CLEARING AND GRUBBING ITEM 201.06.

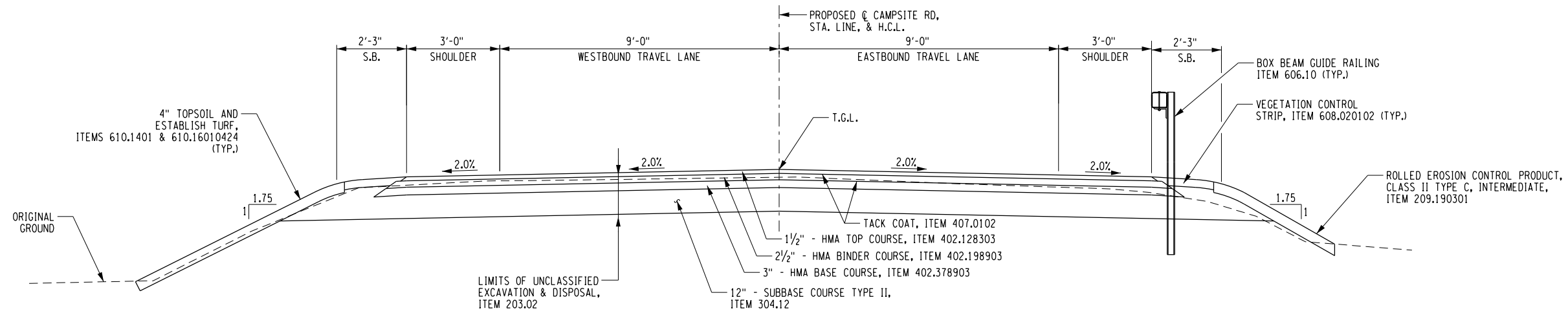
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	TOWN OF NEWCOMB COUNTY: ESSEX REGION: 1				HIGHWAY GENERAL PLAN	DRAWING NO. GP-1
						SHEET NO. 11 OF 39

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 = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT CHECK A. BROWN DRAFTING K. DETRICK CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN



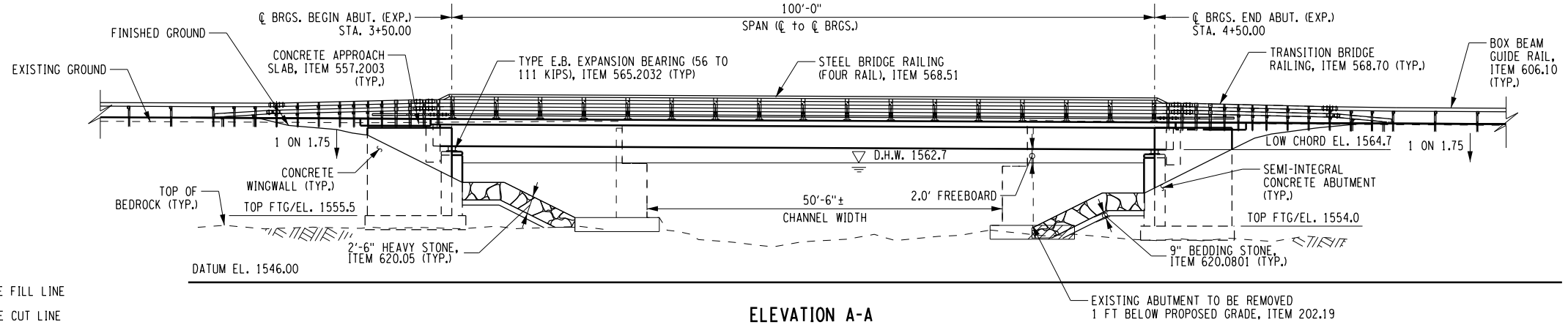
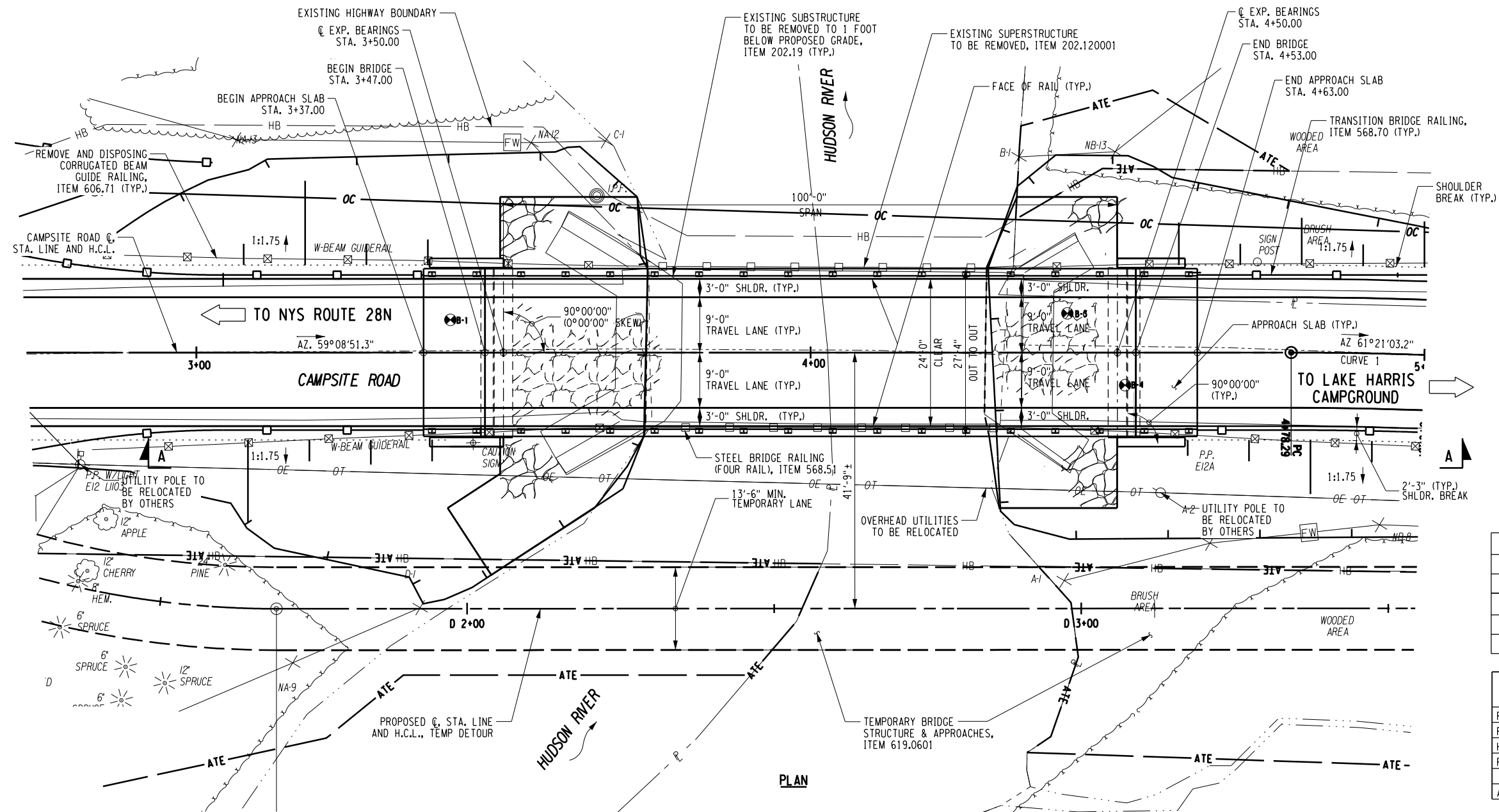
TYPICAL HIGHWAY SECTION
 STA. 1+20.00 TO 3+04.00
 STA. 4+95.60 TO 6+15.00
 SCALE: 1/4"=1'-0"

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			
	TOWN OF NEWCOMB				TYPICAL HIGHWAY SECTIONS	DRAWING NO. TYP-1
	COUNTY: ESSEX REGION: 1					SHEET NO. 12 OF 39

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 C. TUTUNJIAN
 CHECK A. BROWN
 DRAFTING K. DETRICK
 CHECK A. BROWN
 DESIGN L. SHORT
 JOB MANAGER C. TUTUNJIAN
 FILE NAME: N:\Projects\2017\117-050\Campsite\cadd\gpr\117-050-cpb.gmn_02.dgn
 DATE/TIME: 2/15/2019
 USER: KDetrick



LOAD RATING (LFD)		
INVENTORY	HS	42.83 TONS
OPERATING	HS	55.52 TONS
LOAD RATING (LFR)		
INVENTORY	HL-93	1.19
OPERATING	HL-93	1.54

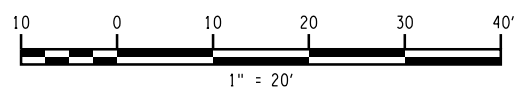
HYDRAULIC DATA			
DRAINAGE AREA = 116 SQ. MI.		BASE FLOOD	DESIGN FLOOD
FREQUENCY INTERVALS (YEARS)		100	50
PEAK DISCHARGE (CFS)		7680	6780
HIGH WATER ELEV. (FT)		1563.4	1562.7
FREEBOARD PROVIDED (FT)		EXIST 0.1	0.7
		PROP. 1.3	2.0
AVG. VELOCITY @ STRUCTURE (FT/S)		9.92	8.85

- TEMPORARY STRUCTURE NOTE**
- THE PROPOSED TEMPORARY STRUCTURE SHALL PROVIDE A MINIMUM CLEAR OPENING OF 78 FT. PERPENDICULAR TO THE FLOW WITH A MINIMUM ACCEPTABLE LOW BEAM ELEVATION OF 1562.42. A MINIMUM CLEAR WATERWAY AREA OF 646.5 SF IS REQUIRED BELOW THE MINIMUM LOW BEAM ELEVATION.
 - FOR PURPOSES OF THIS STRUCTURE, MULTIPLE PIPES OR CELLS WILL NOT BE ACCEPTABLE.

CURVE 1	
PC = STA. 4+78.29	
PT = STA. 5+01.37	
Δ = 2°12'11.92"	
R = 600.00'	
Dc = 9°32'57.47"	
L = 23.07'	
T = 11.54'	

LEGEND:

- APPROXIMATE FILL LINE
- APPROXIMATE CUT LINE
- BORING LOCATION & DESIGNATION
- HEAVY STONE FILLING, ITEM 620.05

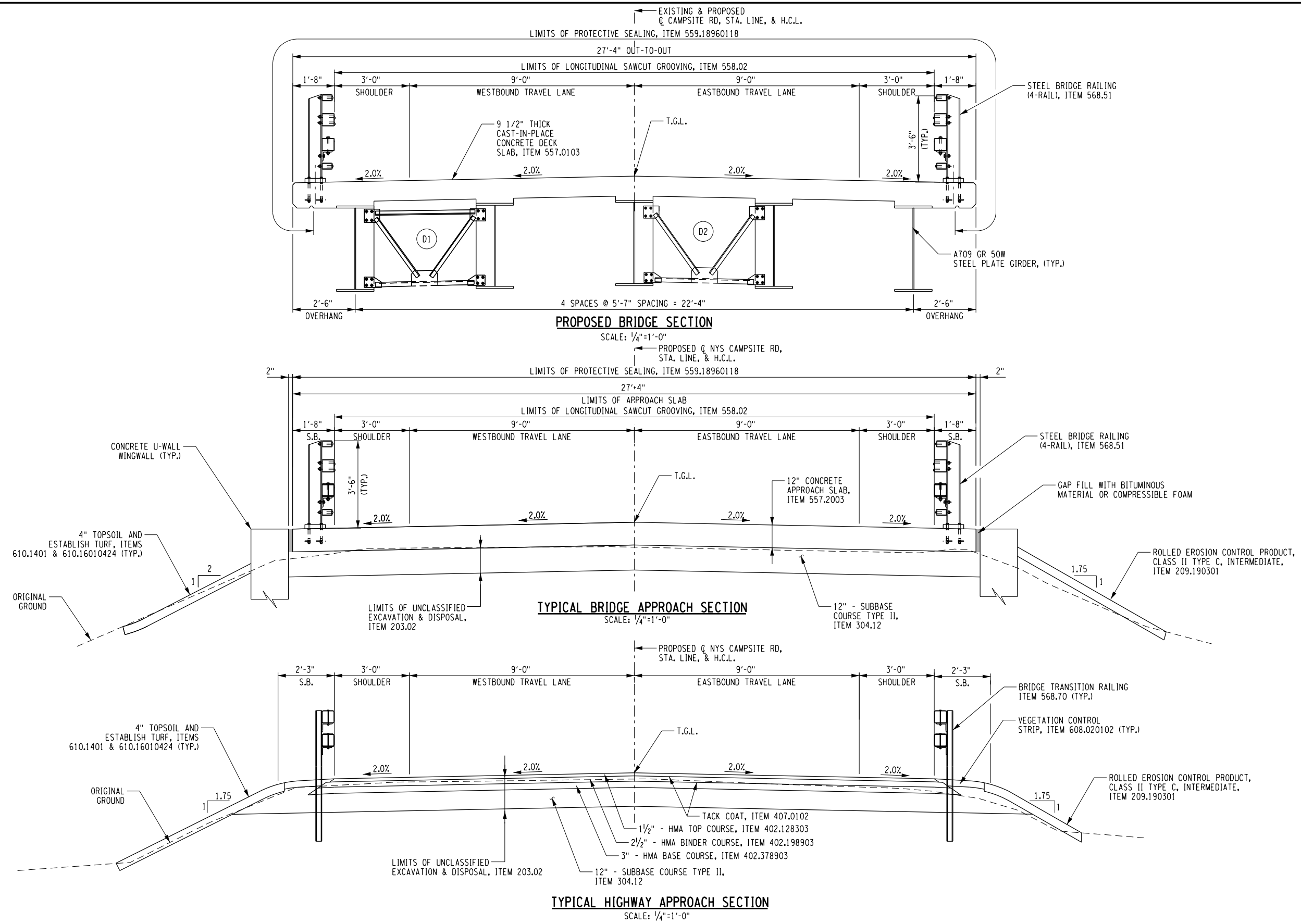


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			DRAWING NO. ST-1
	TOWN OF NEWCOMB	REGION: 1			GENERAL PLAN & ELEVATION	SHEET NO. 13 OF 39
	COUNTY: ESSEX					

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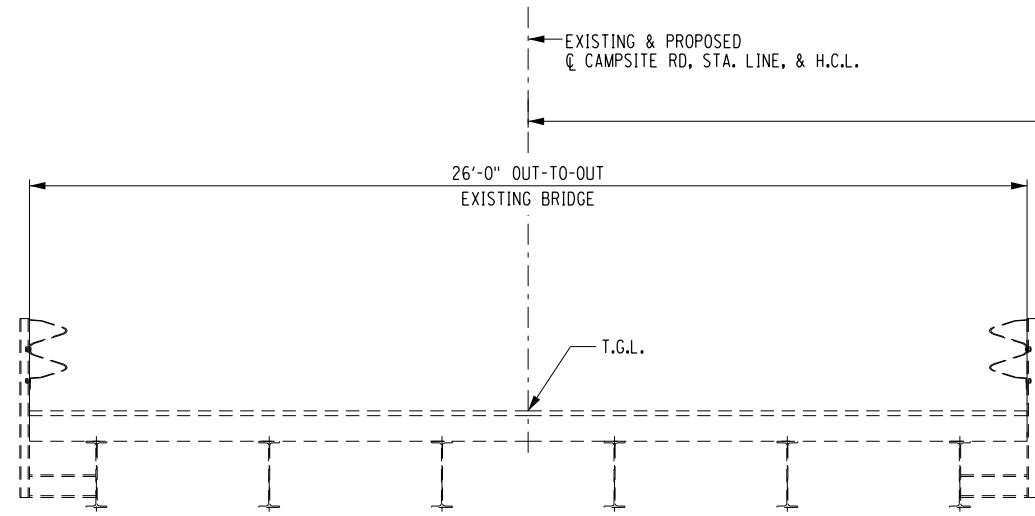
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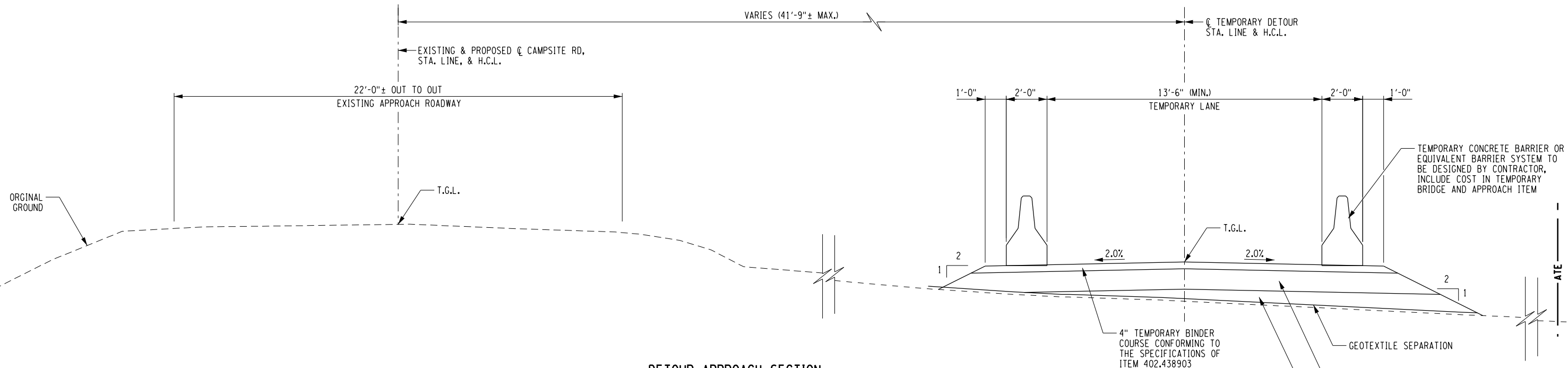
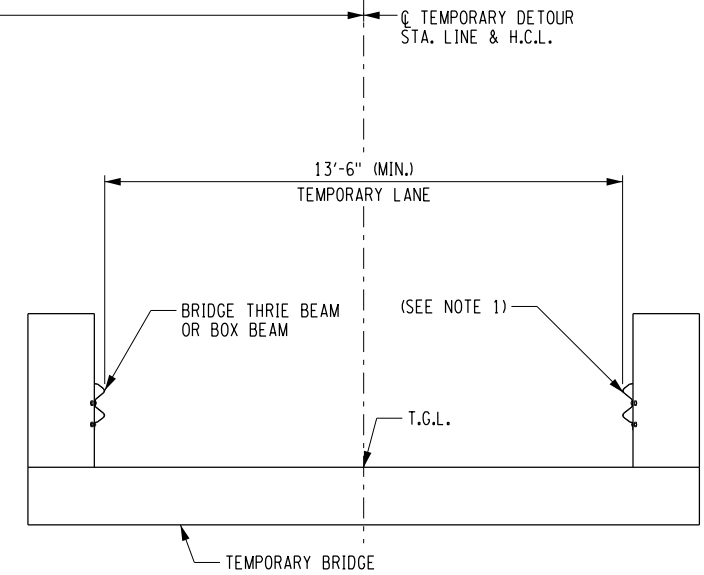
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	BRIDGE REPLACEMENT PROJECT		BIN 3302040			
	TOWN OF NEWCOMB	REGION: 1	TYPICAL SECTIONS			DRAWING NO. ST-2
	COUNTY: ESSEX					SHEET NO. 14 OF 39
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL 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.						
					 Department of Transportation	

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 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT CHECK A. BROWN DRAFTING K. DETRICK CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN



DETOUR BRIDGE SECTION
 SCALE: 3/16"=1'-0"



DETOUR APPROACH SECTION
 SCALE: 3/16"=1'-0"

NOTES:

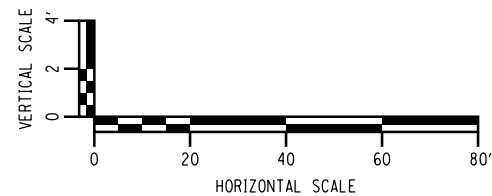
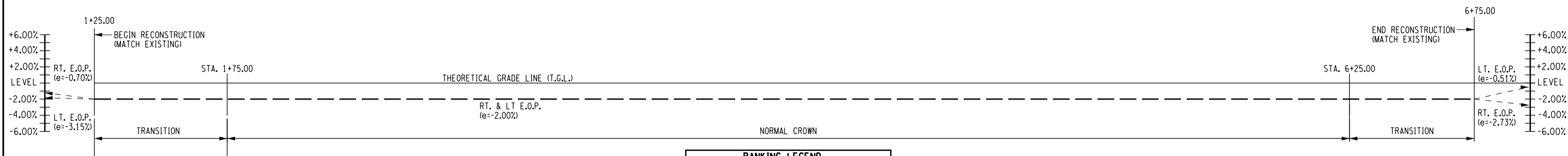
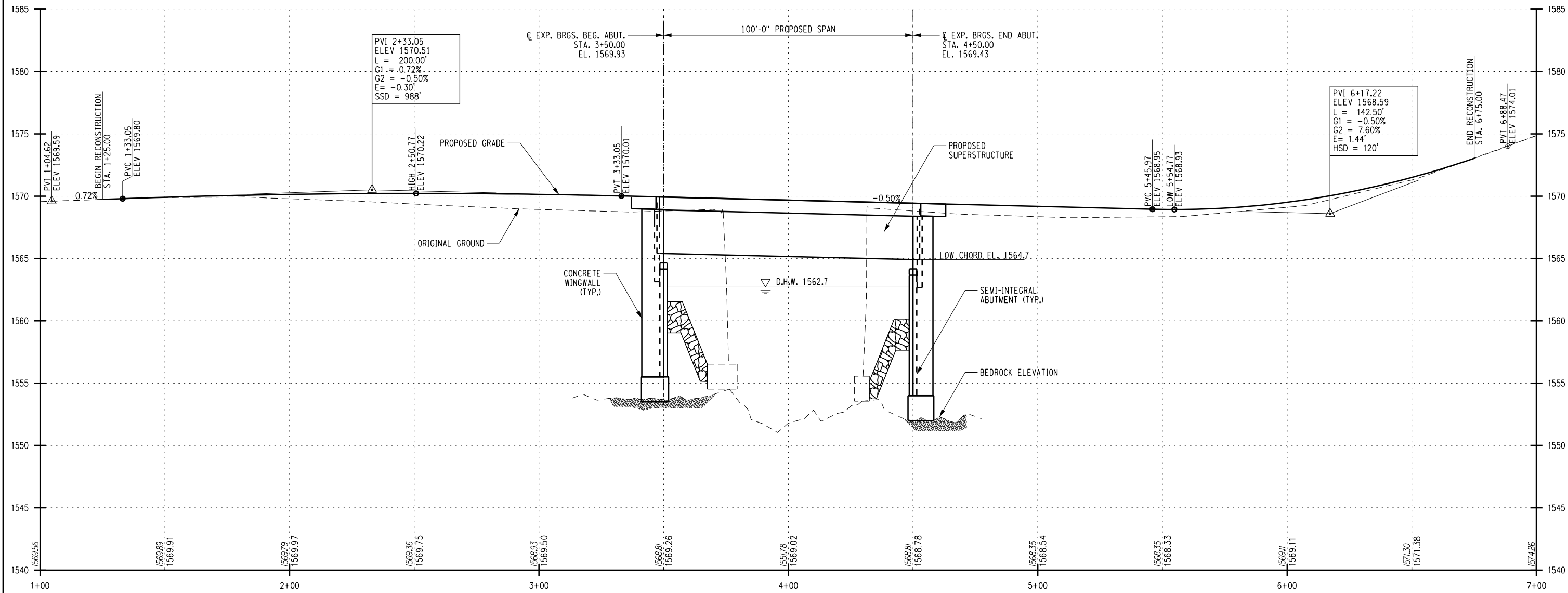
- CONTRACTOR TO DESIGN TRANSITION FROM BRIDGE THRIE OR BOX BEAM TO APPROACH BARRIER SYSTEM. COST TO BE INCLUDED IN TEMPORARY BRIDGE AND APPROACH ITEM.
- AT THE END OF CONSTRUCTION THE TEMPORARY BRIDGE AND APPROACHES SHALL BE REMOVED IN THEIR ENTIRETY. COST FOR REMOVAL SHALL BE INCLUDED IN TEMPORARY BRIDGE AND APPROACH ITEM.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			TEMPORARY DETOUR SECTIONS
	TOWN OF NEWCOMB				SHEET NO. 15 OF 39	
	COUNTY: ESSEX	REGION: 1				

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.

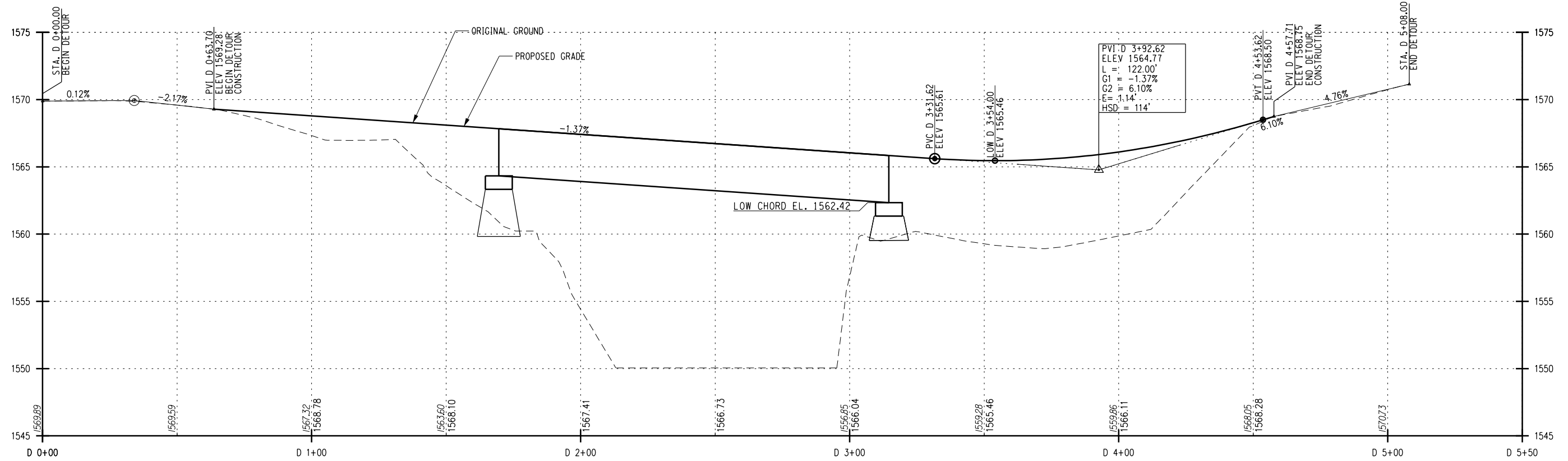
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 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT CHECK A. BROWN DRAFTING K. DETRICK CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN

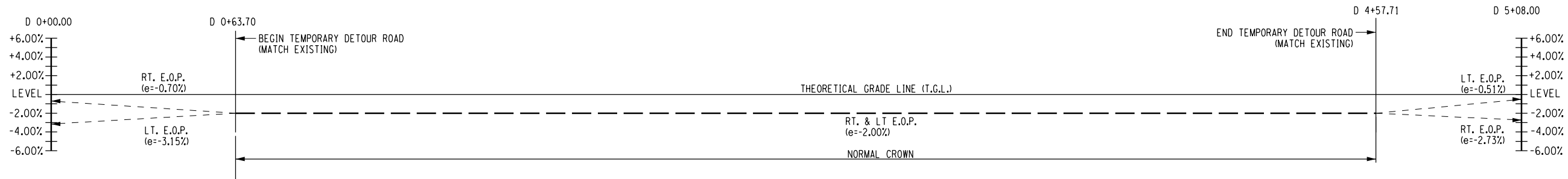


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			
	TOWN OF NEWCOMB				PROPOSED PROFILE	DRAWING NO. ST-4
	COUNTY: ESSEX REGION: 1					SHEET NO. 16 OF 39

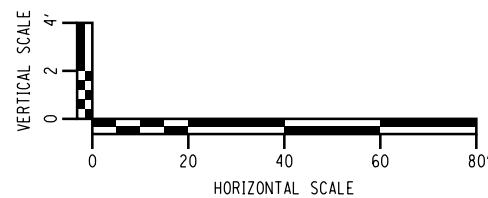
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT,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



DETOUR PROFILE



BANKING LEGEND	
— — — — —	LEFT EDGE OF PAVEMENT
- - - - -	RIGHT EDGE OF PAVEMENT
- - - - -	EXISTING



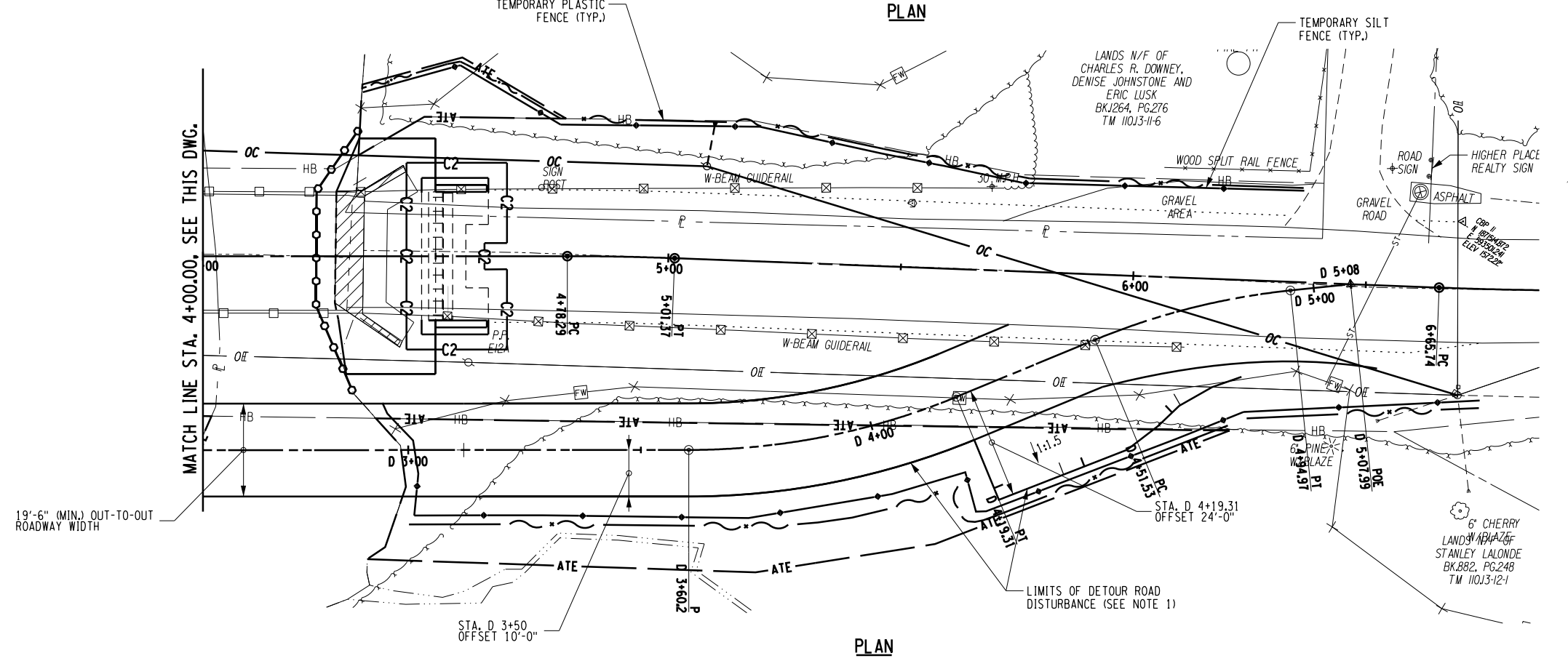
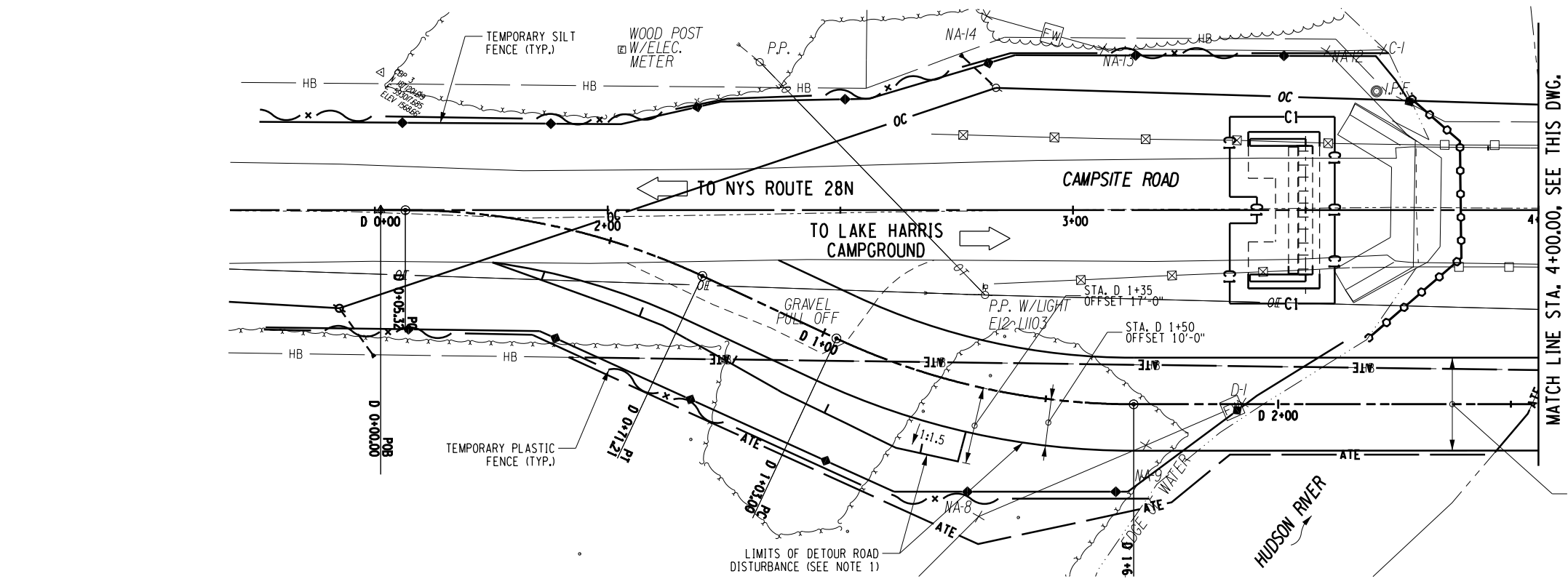
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			
	TOWN OF NEWCOMB				DETOUR PROFILE	DRAWING NO. ST-5
	COUNTY: ESSEX	REGION: 1				SHEET NO. 17 OF 39

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 = 2/15/2019
 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT CHECK A. BROWN DRAFTING K. DETRICK CHECK A. BROWN CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN



GRID NORTH

19'-6" (MIN.) OUT-TO-OUT ROADWAY WIDTH

GRID NORTH

19'-6" (MIN.) OUT-TO-OUT ROADWAY WIDTH

LEGEND:

- [FW] WETLAND BOUNDARY
- [X] TEMPORARY PLASTIC FENCE, ITEM 607.41010010
- [●] TEMPORARY SILT FENCE, ITEM 209.13
- [○] TURBIDITY CURTAIN, ITEM 209.1501
- [CX] COFFERDAM, ITEM 553.020001 AND ITEM 553.020002

15 0 15 30 45 60'

1" = 30'

NOTES:

1. CONTRACTOR SHALL NOT CUT TREES, OR CLEAR VEGETATION PAST THE LIMITS OF DISTURBANCE.

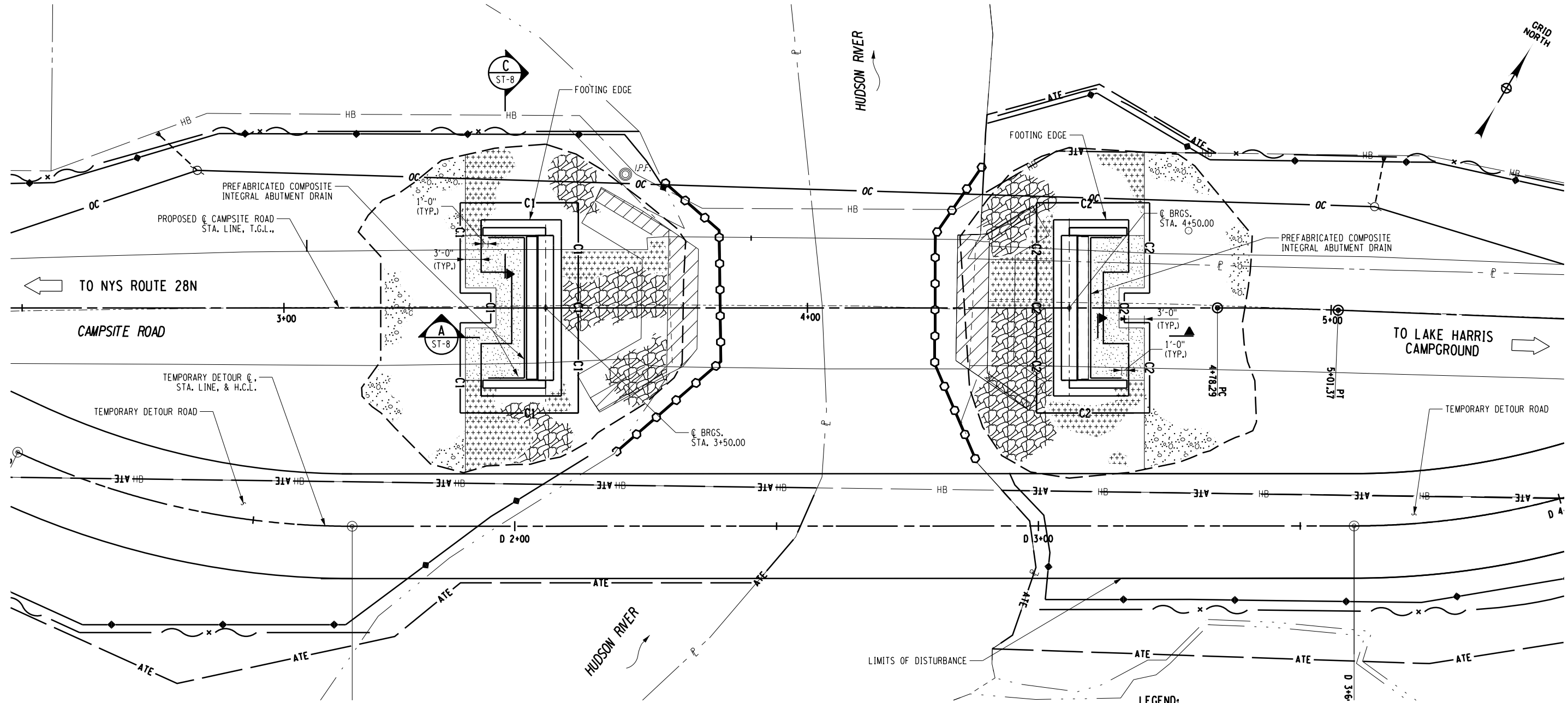
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	BRIDGE REPLACEMENT PROJECT		BIN 3302040			
	TOWN OF NEWCOMB	REGION: 1				EROSION CONTROL PLAN
COUNTY: ESSEX						DRAWING NO. ST-6 SHEET NO. 18 OF 39

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 = 2/15/2019
 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN
 JOB MANAGER C. TUTUNJIAN
 DESIGN L. SHORT
 CHECK A. BROWN
 DRAFTING K. DETRICK
 CHECK A. BROWN
 PROJECT MANAGER C. TUTUNJIAN



NOTES:
 1. CONTRACTOR SHALL PROTECT THE TEMPORARY ABUTMENTS FOR THE TEMPORARY BRIDGE WITH HEAVY STONE FILL. COST FOR HEAVY STONE FILL SHALL BE INCLUDED IN TEMPORARY BRIDGE AND APPROACHES ITEM.

PLAN
 SCALE: 1"=40'-0"

LEGEND:

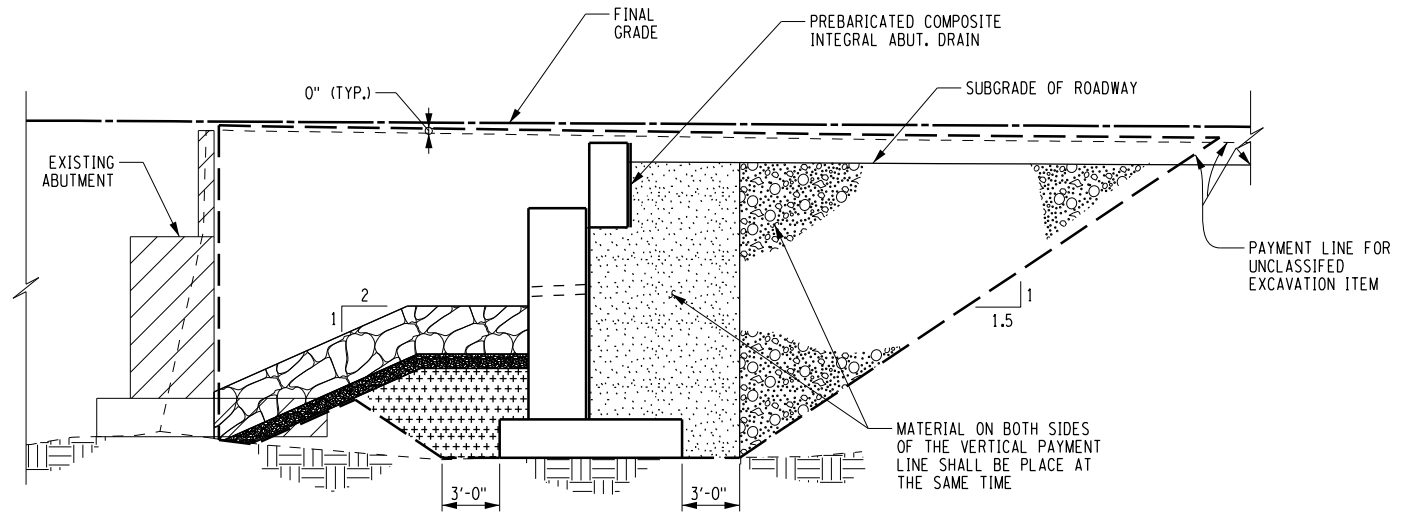
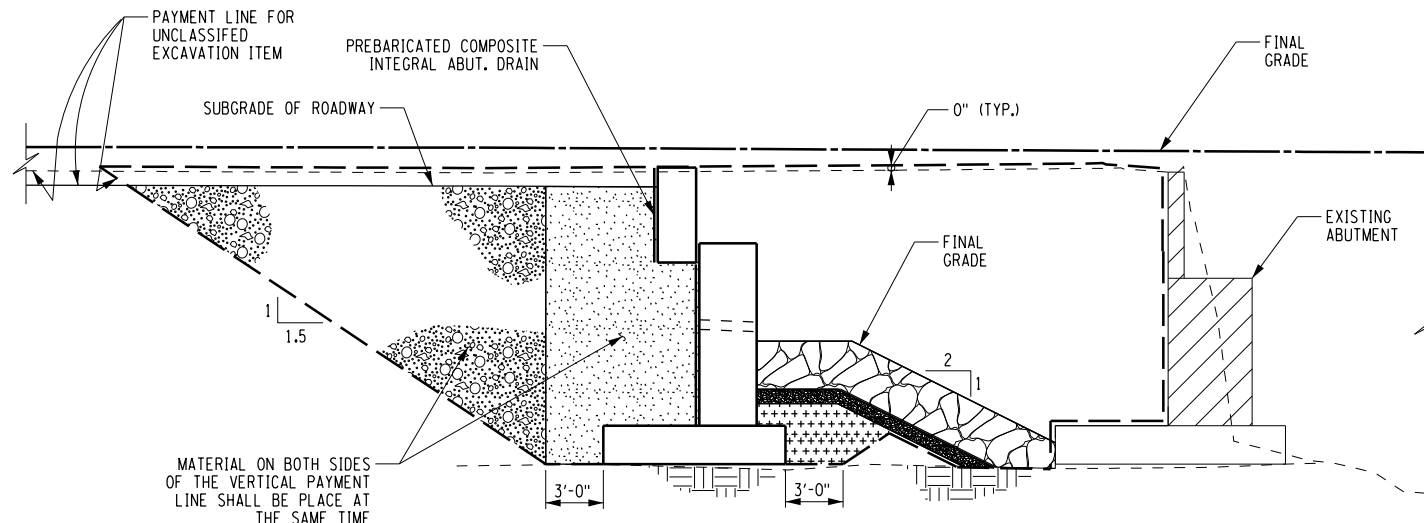
	REMOVAL OF SUBSTRUCTURES, ITEM 202.19		LIMITS OF STRUCTURE EXCAVATION, ITEM 206.01
	HIGHWAY EMBANKMENT MATERIAL, ITEM 203.03		PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN, ITEM 207.27
	SELECT STRUCTURE FILL, ITEM 203.21		SILT FENCE, ITEM 209.13
	BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER STRUCTURE EXCAVATION (ITEM 206.01)		TURBIDITY CURTAIN, ITEM 209.1501
	STONE FILLING (HEAVY) ITEM 620.05		COFFERDAM, ITEM 553.020001 AND ITEM 553.020002
			TEMPORARY PLASTIC FENCE ITEM, 607.41010010

10 0 10 20 30 40'
 1" = 20'

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			
	TOWN OF NEWCOMB				EARTHWORK PLAN	DRAWING NO. ST-7
	COUNTY: ESSEX REGION: 1					SHEET NO. 19 OF 39

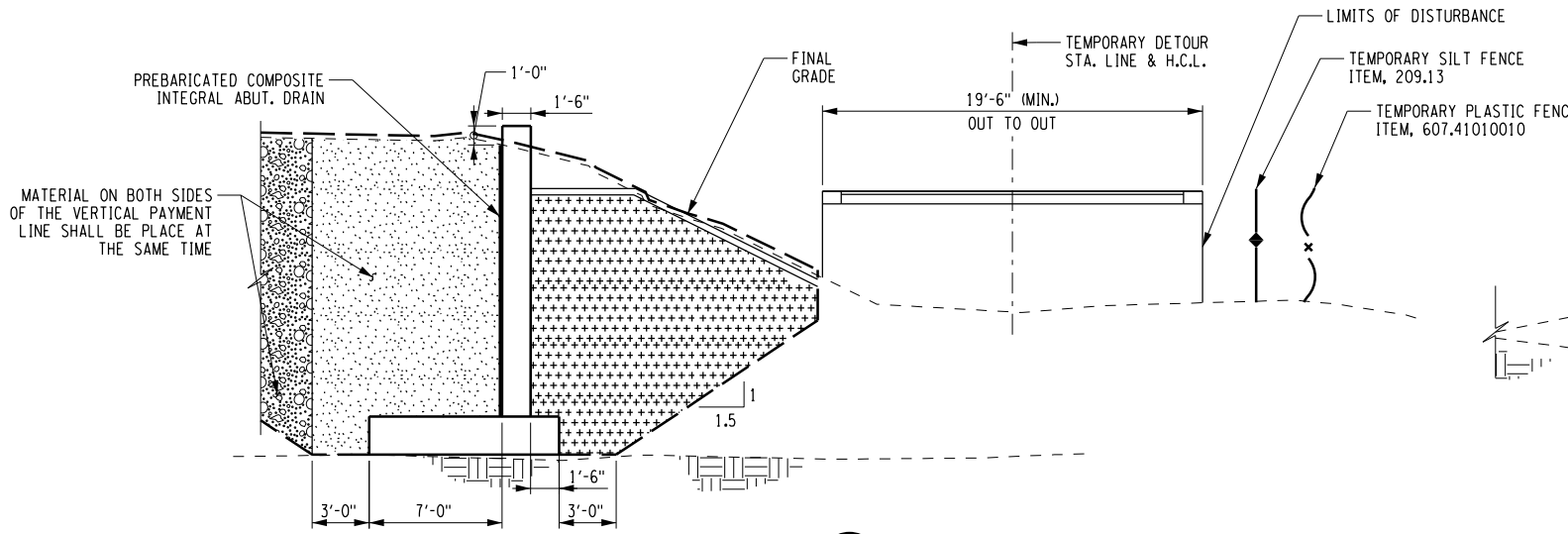
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT,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

FILE NAME = N:\Projects\2017\117-050_Campsite\cadd\dgr\117-050_cpb_srw_sec_01.dgn
 DATE/TIME = 2/15/2019
 USER = KDetrick
 DESIGN SUPERVISOR C. TUTUNJIAN
 JOB MANAGER C. TUTUNJIAN
 DESIGN L. SHORT
 CHECK A. BROWN
 DRAFTING K. DETRICK
 CHECK A. BROWN
 PROJECT MANAGER C. TUTUNJIAN

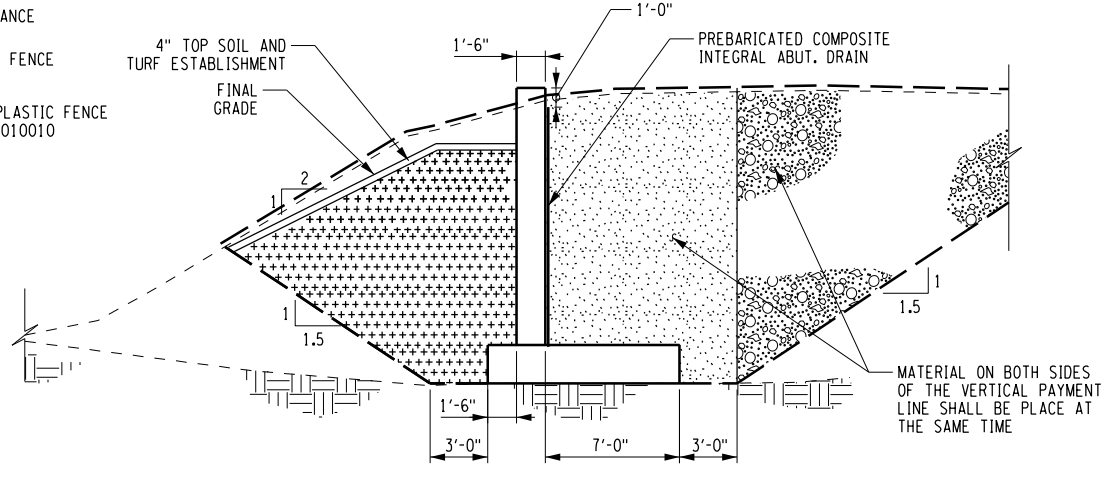


A ABUTMENT EARTHWORK SECTION
 ST-7 SCALE:1"=10'-0"

NOTES:
 1. ROCK KEY DETAIL SHALL BE USED FOR AREAS OUTSIDE OF THE EXISING BRIDGE FOOTING.

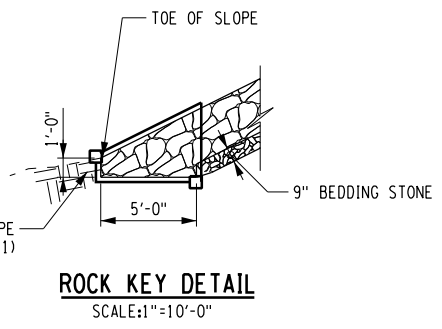


B WINGWALL EARTHWORK SECTION
 ST-7 SCALE:1"=10'-0"



C WINGWALL EARTHWORK SECTION
 ST-7 SCALE:1"=10'-0"

- LEGEND:**
- REMOVAL OF SUBSTRUCTURES, ITEM 202.19
 - HIGHWAY EMBANKMENT MATERIAL, ITEM 203.03
 - SELECT STRUCTURE FILL, ITEM 203.21
 - BACKFILL WITH SUITABLE EXCAVATED MATERIAL AS PROVIDED FOR UNDER STRUCTURE EXCAVATION (ITEM 206.01)
 - STONE FILLING (HEAVY) ITEM 620.05
 - BEDDING MATERIAL, ITEM 620.0801
 - PREFABRICATED COMPOSITE INTEGRAL ABUTMENT DRAIN, ITEM 207.27
 - LIMITS OF STRUCTURE EXCAVATION, ITEM 206.01
 - TRENCH AND CULVERT EXCAVATION, ITEM 206.0201



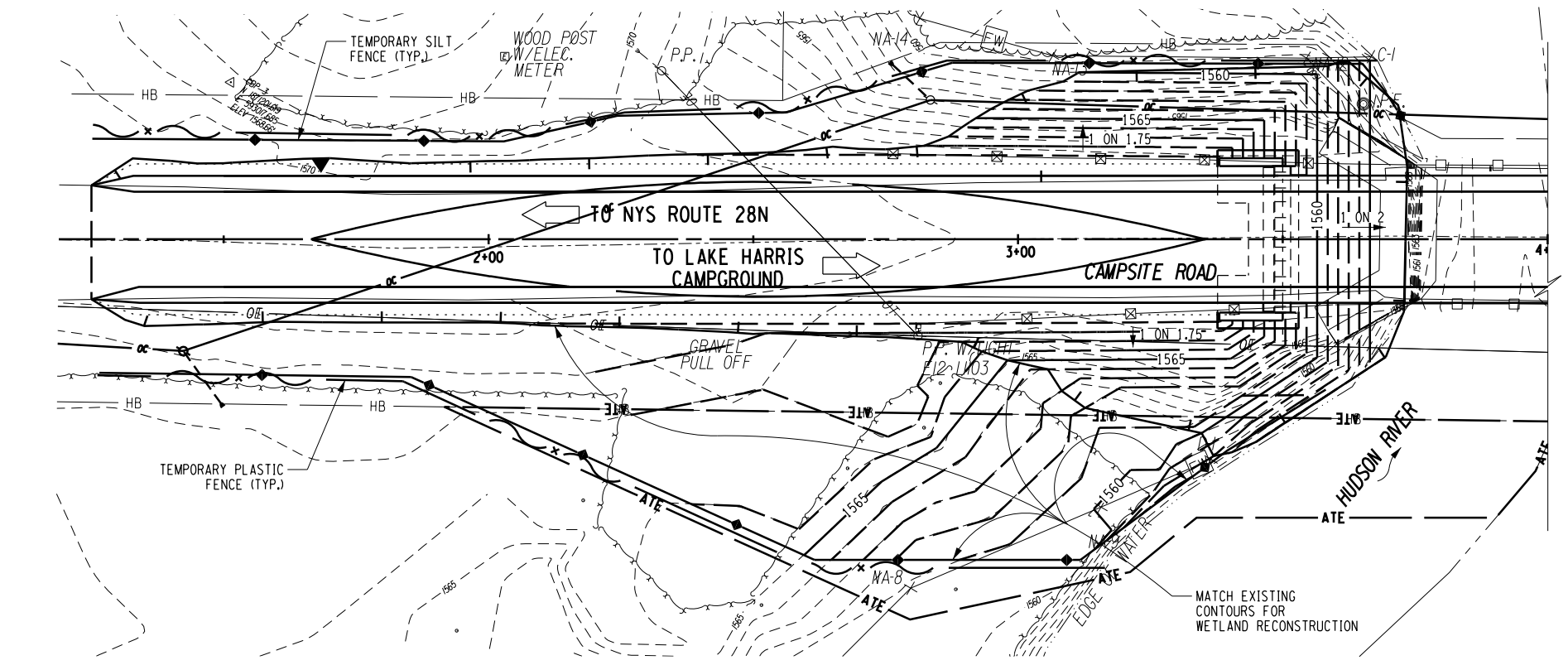
ROCK KEY DETAIL
 SCALE:1"=10'-0"

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			DRAWING NO. ST-8
	TOWN OF NEWCOMB				EARTHWORK SECTION	SHEET NO. 20 OF 38
	COUNTY: ESSEX	REGION: 1				

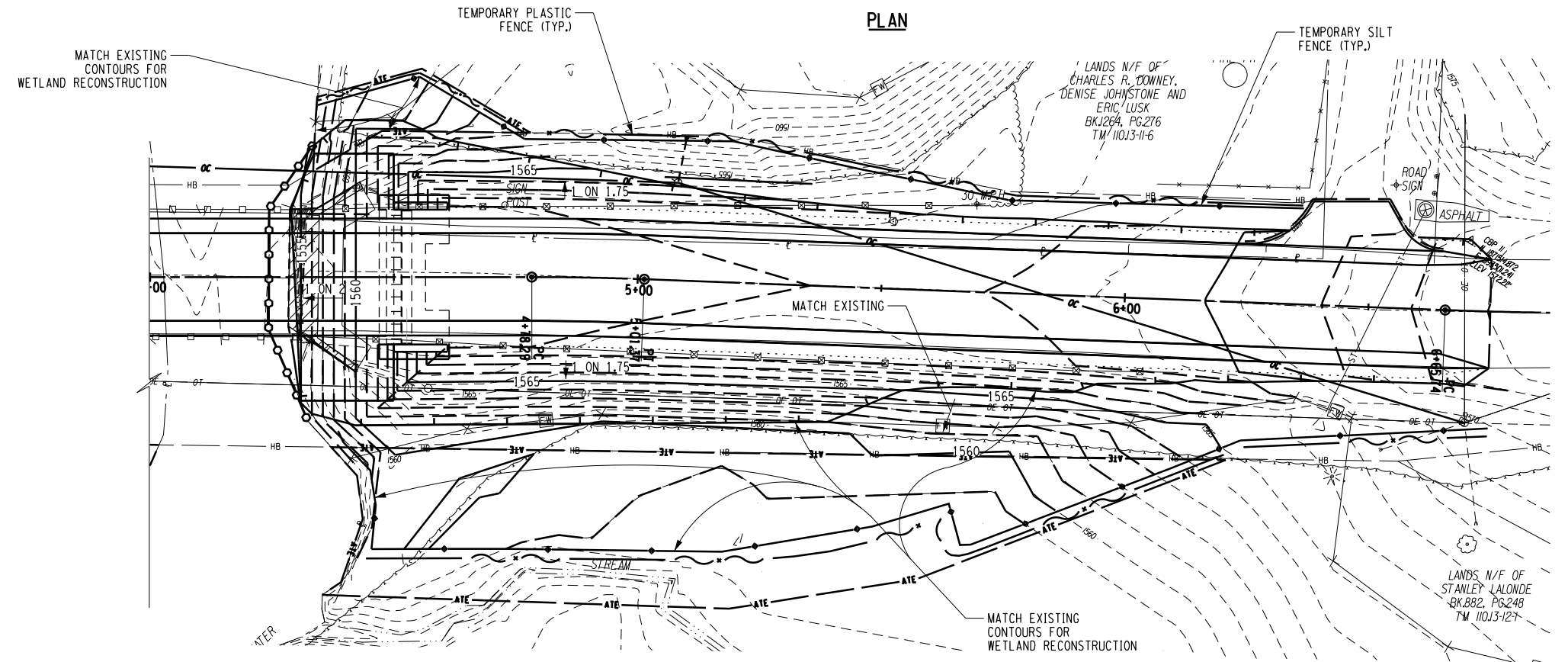
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, 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 = 2/15/2019
 USER = KDetrick

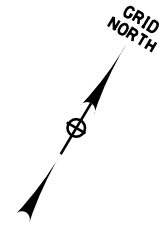
DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT CHECK A. BROWN DRAFTING K. DETRICK CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN



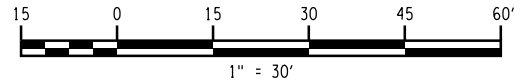
PLAN



PLAN



- LEGEND:**
- WETLAND BOUNDARY
 - TEMPORARY PLASTIC FENCE, ITEM 607.41010010
 - TEMPORARY SILT FENCE, ITEM 209.13
 - PROPOSED MINOR CONTOUR
 - PROPOSED MAJOR CONTOUR



NOTES:

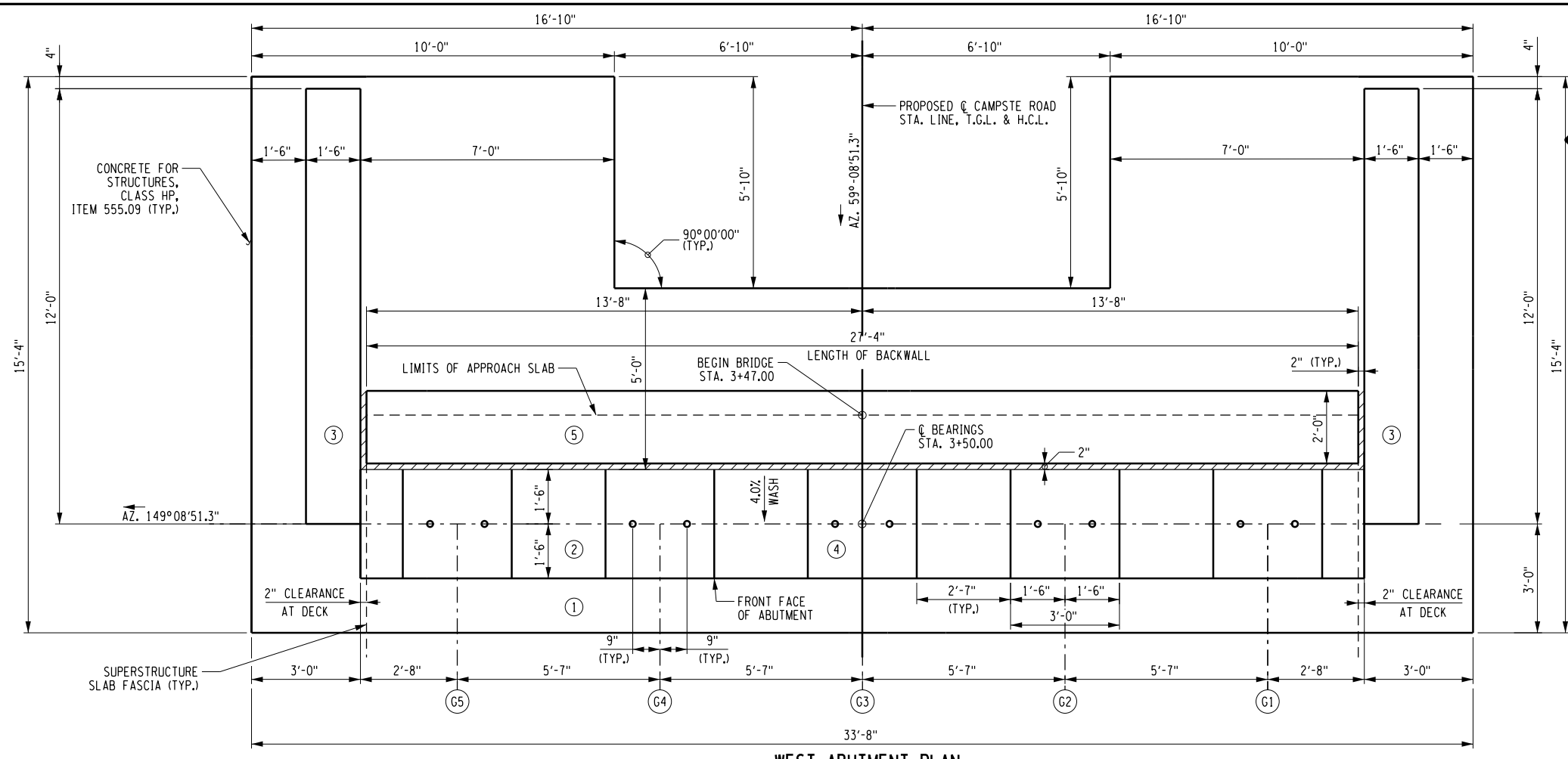
1. CONTRACTOR SHALL NOT CUT TREES OR CLEAR VEGETATION PAST THE LIMITS OF DISTURBANCE.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES BIN 3302040	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT					
	TOWN OF NEWCOMB					
COUNTY: ESSEX	REGION: 1	FINAL GRADING PLAN			DRAWING NO. ST-9	
						SHEET NO. 21 OF 39

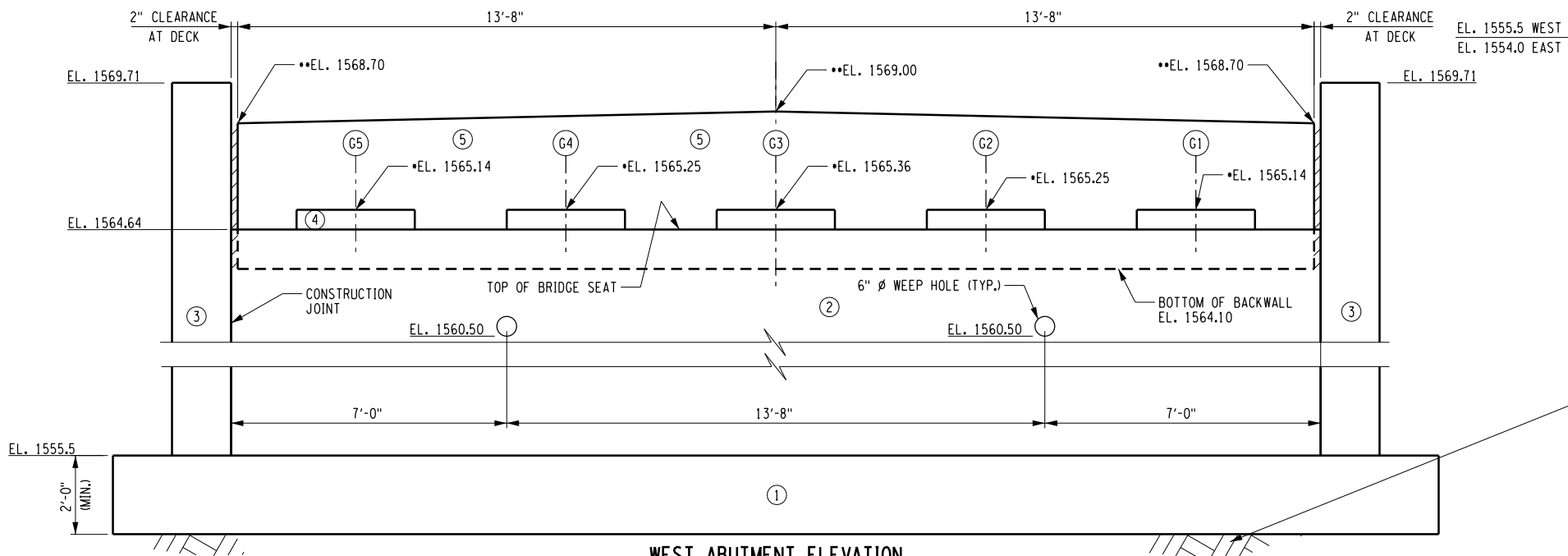
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FILE NAME = N:\Projects\2017\117-050_Campste\cadd\dgr\117-050-cpb-obs.dtl.bngdgm
 DATE/TIME = 2/15/2019
 USER = KDetrick
 DESIGN SUPERVISOR C. TUTUNJIAN
 JOB MANAGER C. TUTUNJIAN
 DESIGN L. SHORT
 DRAFTING K. DETRICK
 CHECK A. BROWN
 CHECK A. BROWN
 PROJECT MANAGER C. TUTUNJIAN



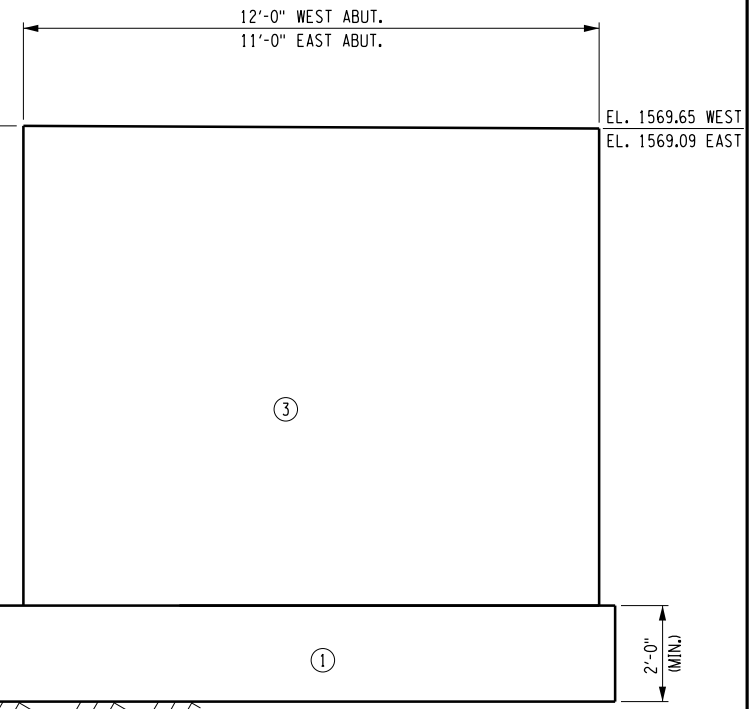
WEST ABUTMENT PLAN
SCALE: 1/4"=1'-0"



WEST ABUTMENT ELEVATION
SCALE: 1/4"=1'-0"

ROCK NOTES:

- EXISTING ROCK SURFACE SHALL BE CLEANED AND ANY VOIDS UNDER THE PROPOSED FOOTINGS SHALL BE COMPLETELY FILLED IN WITH CLASS A CONCRETE, ITEM 555.0104.
- THE BEDROCK BEARING GRADES SHALL BE MADE RELATIVELY LEVEL (SLOPE NO STEEPER THAN 1V:10H) THROUGH THE PLACEMENT OF CLASS A CONCRETE, ITEM 555.0104, TO FILL LOW SPOTS AS REQUIRED.
- WHERE BEDROCK ELEVATION IS FOUND TO BE GREATER THAN 2 FT BELOW THE TOP OF FOOTING ELEVATION, THE FOOTING THICKNESS SHALL BE INCREASED TO MAKE UP THE DIFFERENCE.
- WHERE BEDROCK ELEVATIONS IS FOUND TO BE HIGHER THEN 2 FT BELOW TOP OF FOOTING ELEVATION, REMOVE THE ROCK SO THAT THE MINIMUM FOOTING THICKNESS CAN BE PLACED.
- IF ROCK ELEVATION DEVIATES MORE THAN 2 FT, THE ENGINEER SHALL BE NOTIFIED



TYPICAL WINGWALL ELEVATION
SCALE: 1/4"=1'-0"

NOTES:

- FOR PEDESTAL REINFORCEMENT SEE ST-15.
- FOR BEARING ANCHOR BOLT DETAILS SEE DWG. ST-16.
- TOP OF BACKWALL TO FOLLOW GRADE OF ROADWAY

LEGEND:

- (X) INDICATES CONCRETE PLACEMENT NUMBERS
- (GX) INDICATES GIRDER NUMBER
- THESE ELEVATIONS ARE TAKEN AT © OF BEARINGS.
- THESE ELEVATIONS ARE TAKEN AT © OF BACKWALL.

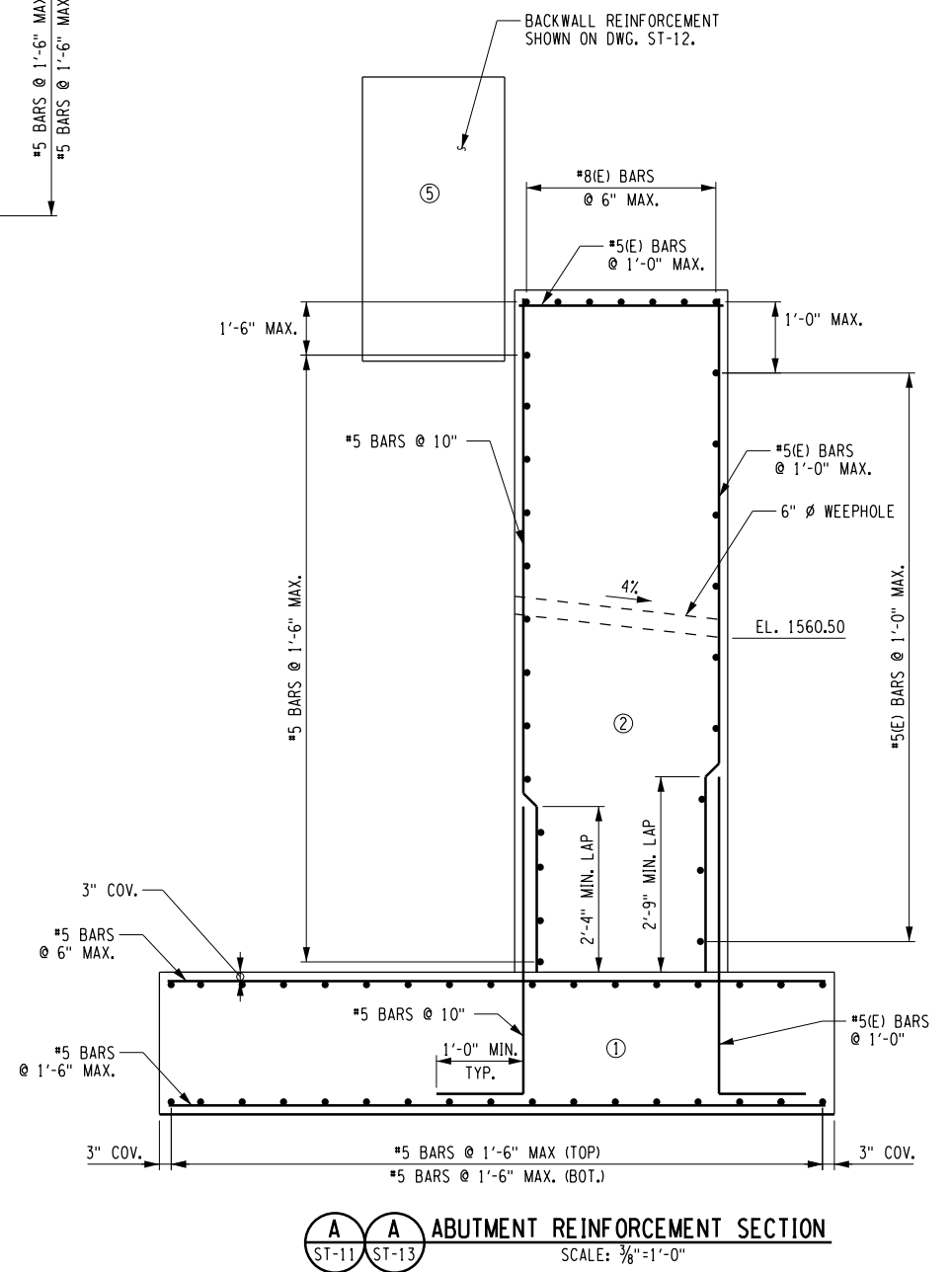
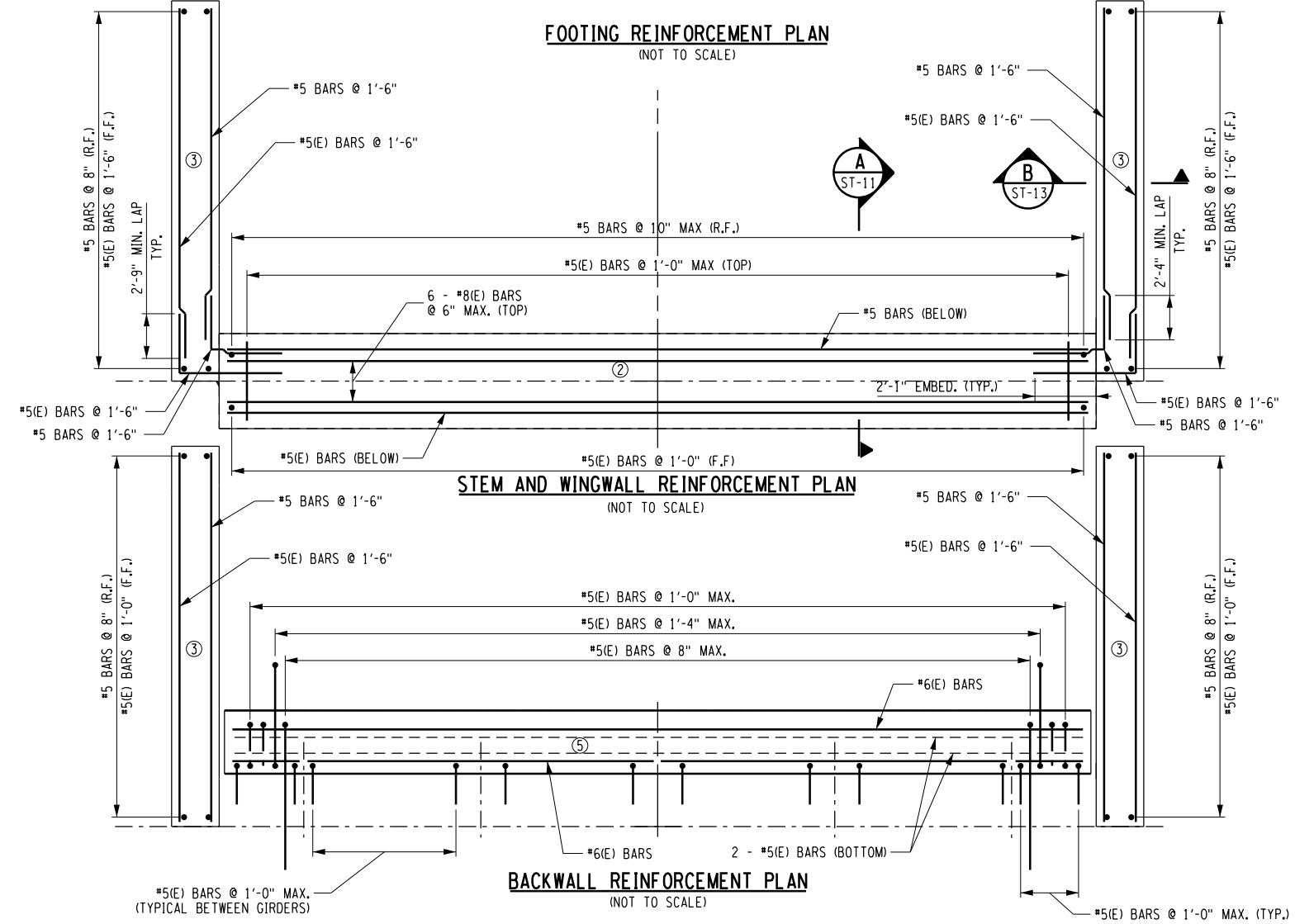
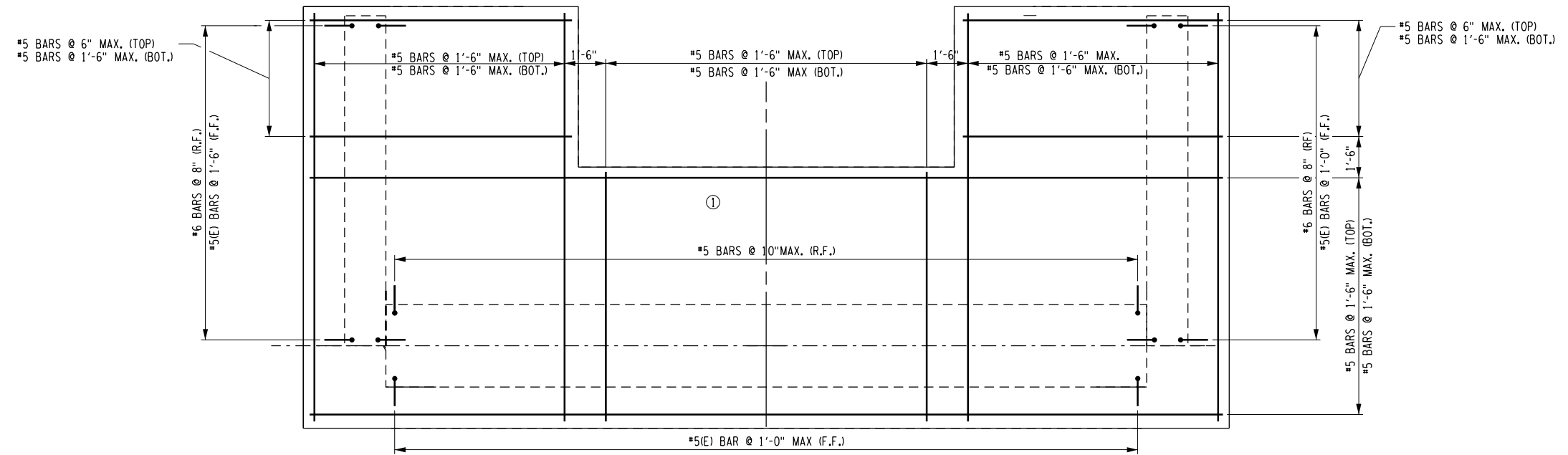
CONCRETE PLACEMENT (CY)		
POUR	ITEM 555.09	ITEM 555.08
①		32.3
②	28.1	
③	18.9	
④	1.0	
⑤	9.7	

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSTE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			
	TOWN OF NEWCOMB	REGION: 1			WEST ABUTMENT PLAN AND ELEVATION	DRAWING NO. ST-10
	COUNTY: ESSEX					SHEET NO. 22 OF 39

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.

FILE NAME = N:\Projects\2017\117-050-Campsite Road\dwg\117-050-crb-abt.rvt.rnf.bng.dgn
 DATE/TIME = 2/15/2019
 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT DRAFTING K. DETRICK CHECK A. BROWN CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN



LEGEND:
 ⊗ INDICATES CONCRETE PLACEMENT NUMBERS

- NOTE:**
- COVER FOR STEEL REINFORCEMENT SHALL BE 2" UNLESS OTHERWISE NOTED.
 - COST OF ALL UNCOATED REINFORCEMENT BARS SHALL BE PAID FOR UNDER ITEM 556.0201.
 - COST OF ALL EPOXY COATED REINFORCEMENT BARS SHALL BE PAID FOR UNDER ITEM 556.0202.

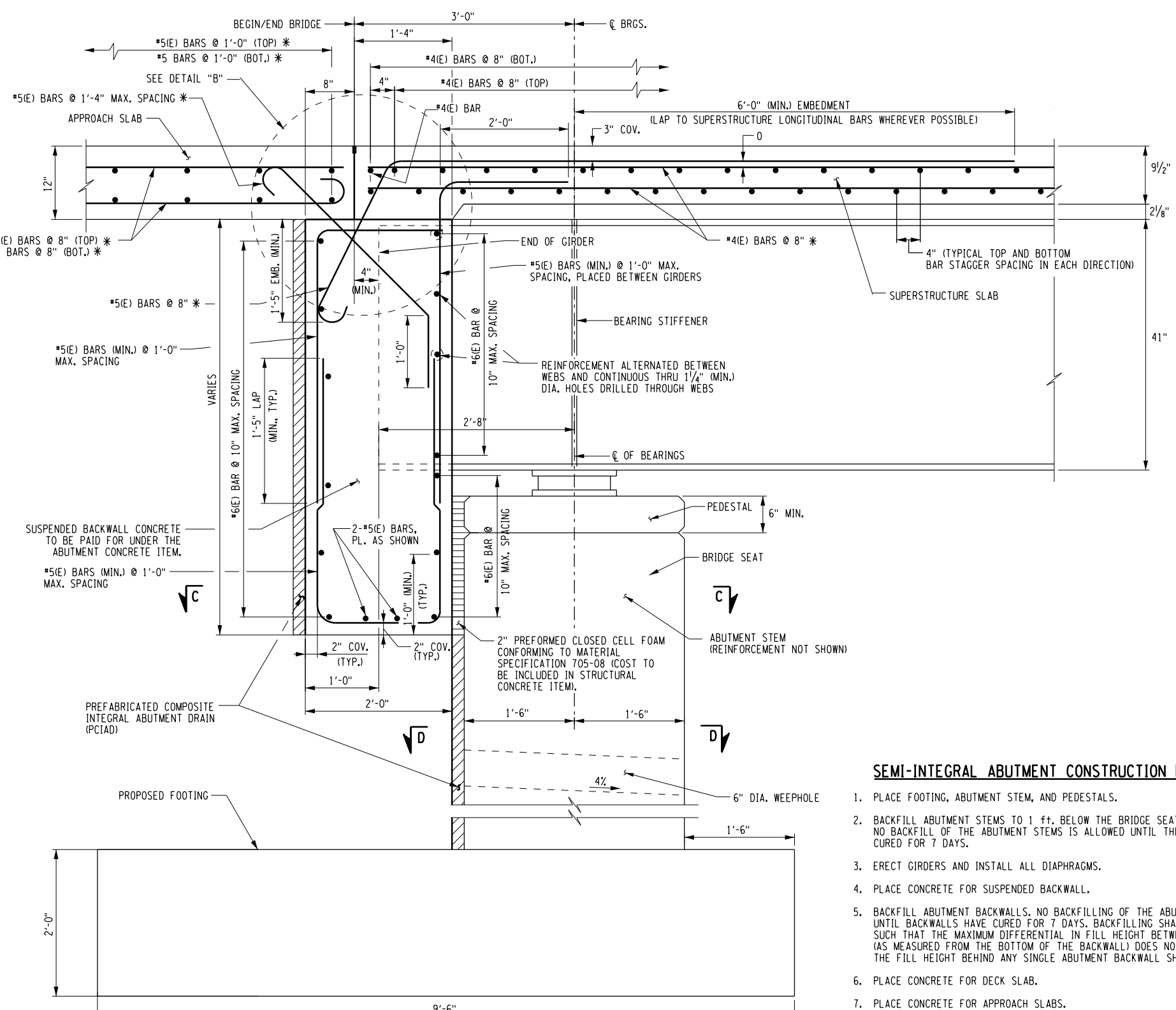
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			WEST ABUTMENT REINFORCEMENT PLAN AND ELEVATION
	TOWN OF NEWCOMB	REGION: 1			SHEET NO. 23 OF 39	
	COUNTY: ESSEX					

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.



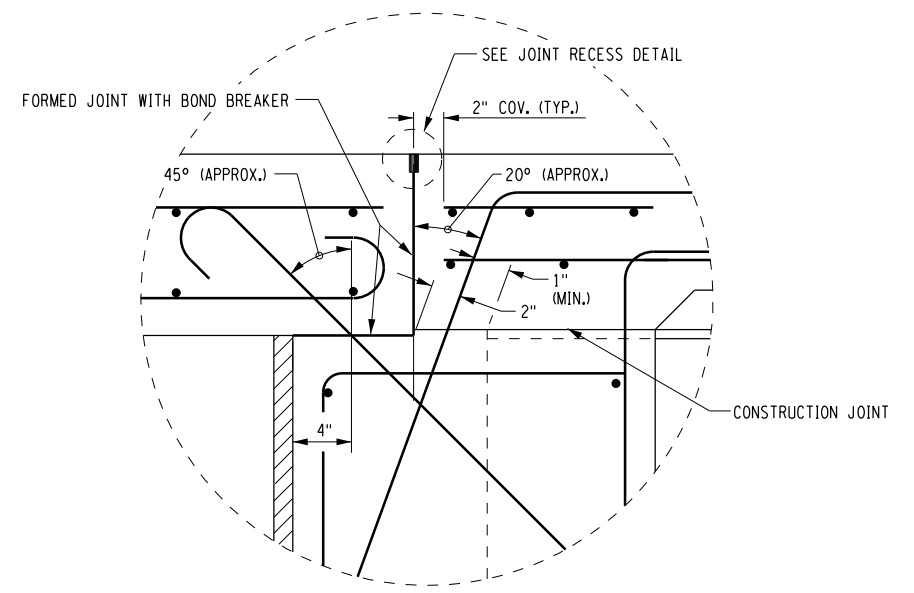
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 DATE/TIME = 2/15/2019
 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT DRAFTING A. BROWN CHECK A. BROWN CHECK K. DETRICK CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN

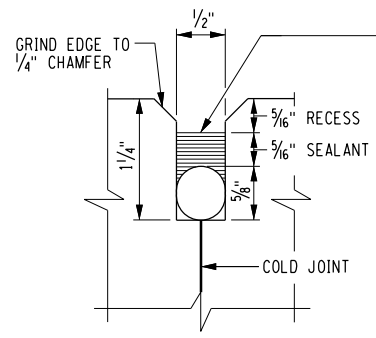


SEMI-INTEGRAL ABUTMENT DETAIL
 (SECTION TAKEN PERPENDICULAR TO ABUTMENT)
 (NOT TO SCALE)

* SPACINGS SHOWN FOR THESE BARS ARE PARALLEL OR PERPENDICULAR TO STATION LINE OR GIRDER.



DETAIL "B"
 (NOT TO SCALE)



FILL THE RECESS WITH A STRUCTURAL JOINT MATERIAL, SILICONE SEALANT, FROM THE DEPARTMENT'S APPROVED LIST FOR ITEM 567.51000016. 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. 5/16". PAYMENT TO BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROACH SLAB.

JOINT RECESS DETAIL
 (NOT TO SCALE)

SEMI-INTEGRAL ABUTMENT CONSTRUCTION PROCEDURE

1. PLACE FOOTING, ABUTMENT STEM, AND PEDESTALS.
2. BACKFILL ABUTMENT STEMS TO 1 ft. BELOW THE BRIDGE SEAT ELEVATION. NO BACKFILL OF THE ABUTMENT STEMS IS ALLOWED UNTIL THE ABUTMENTS HAVE CURED FOR 7 DAYS.
3. ERECT GIRDERS AND INSTALL ALL DIAPHRAGMS.
4. PLACE CONCRETE FOR SUSPENDED BACKWALL.
5. BACKFILL ABUTMENT BACKWALLS. NO BACKFILLING OF THE ABUTMENT IS ALLOWED UNTIL BACKWALLS HAVE CURED FOR 7 DAYS. BACKFILLING SHALL BE CONDUCTED SUCH THAT THE MAXIMUM DIFFERENTIAL IN FILL HEIGHT BETWEEN THE TWO ABUTMENTS (AS MEASURED FROM THE BOTTOM OF THE BACKWALL) DOES NOT EXCEED 2 ft. IN ADDITION, THE FILL HEIGHT BEHIND ANY SINGLE ABUTMENT BACKWALL SHALL NOT VARY MORE THAN 2 ft.
6. PLACE CONCRETE FOR DECK SLAB.
7. PLACE CONCRETE FOR APPROACH SLABS.

NOTES:

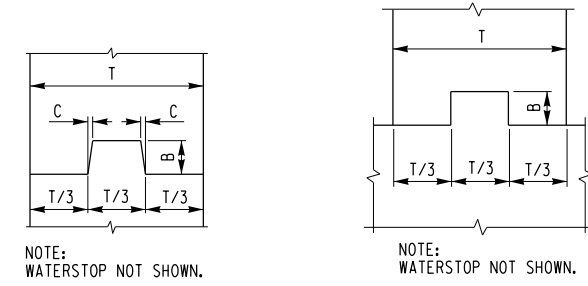
1. ALL COVER TO BE 2" UNLESS OTHERWISE SHOWN.
2. (E) DENOTES EPOXY-COATED BARS.
3. FOAM GAP BETWEEN ABUTMENT STEM AND BACKWALL IS SPECIFIED AT 68°F.
4. BEARING AT EACH ABUTMENT SHALL BE EXPANSION TYPE.
5. SEE DRAWING ST-21 FOR DECK REINFORCEMENT.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			DRAWING NO. ST-14
	TOWN OF NEWCOMB				ABUTMENT DETAILS - 01	SHEET NO. 26 OF 39
	COUNTY: ESSEX	REGION: 1				

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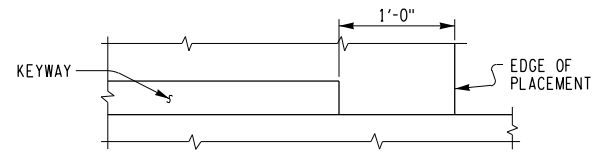
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 DATE/TIME = 2/15/2019
 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT CHECK A. BROWN DRAFTING K. DETRICK CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN



VERTICAL **HORIZONTAL**

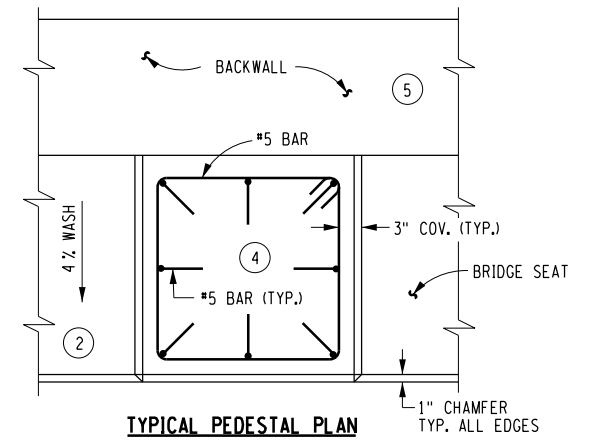
PEDESTAL HEIGHT	NUMBER OF HOOPS
6" TO 8"	1
8" TO 11"	2
11" TO 14"	3
14" TO 17"	4
17" TO 20"	5



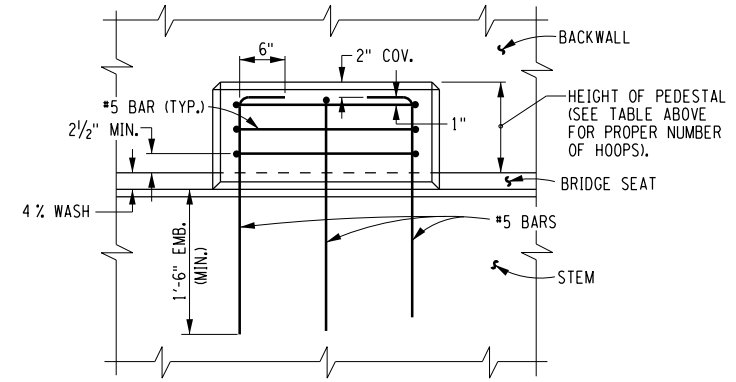
CONSTRUCTION AND CONTRACTION JOINTS		
C	B	T/3
3/16"	1 1/2"	0 TO 6"
3/8"	3/2"	6" TO 10"
3/4"	5/2"	10" AND OVER

EXPANSION JOINTS		
C	B	T/3
3/8"	3/2"	0 TO 10"
3/4"	5/2"	10" AND OVER

KEYWAY DETAILS
(NOT TO SCALE)



TYPICAL PEDESTAL PLAN



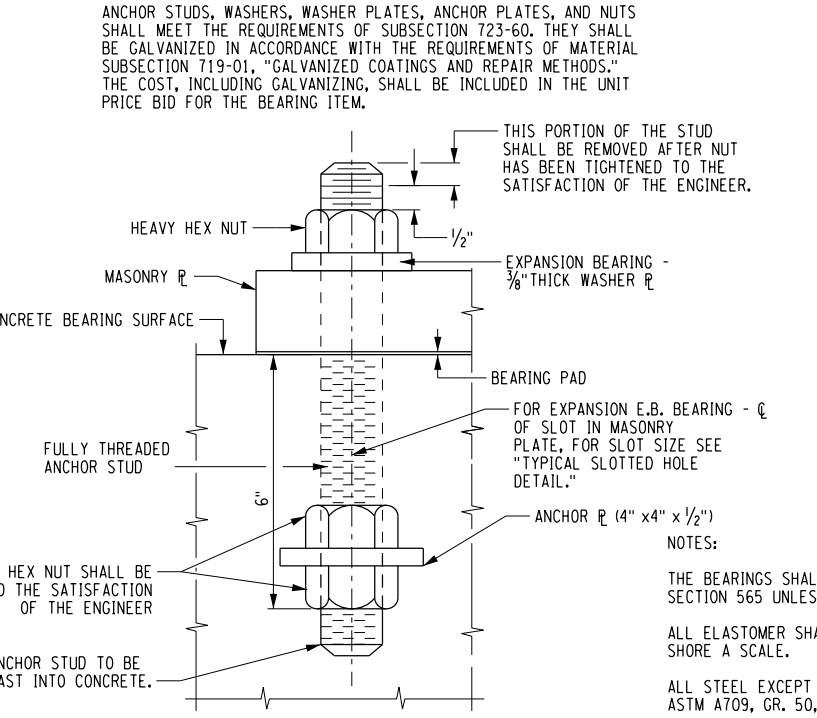
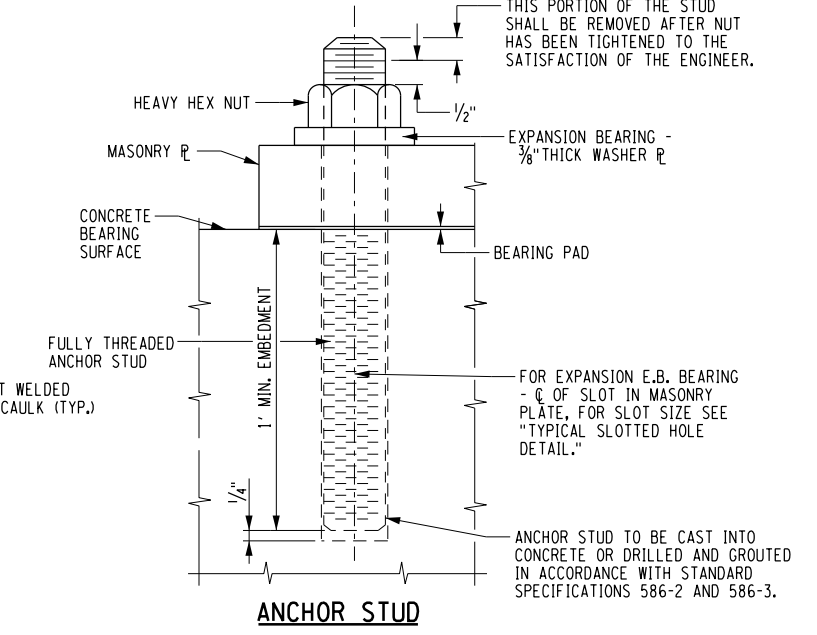
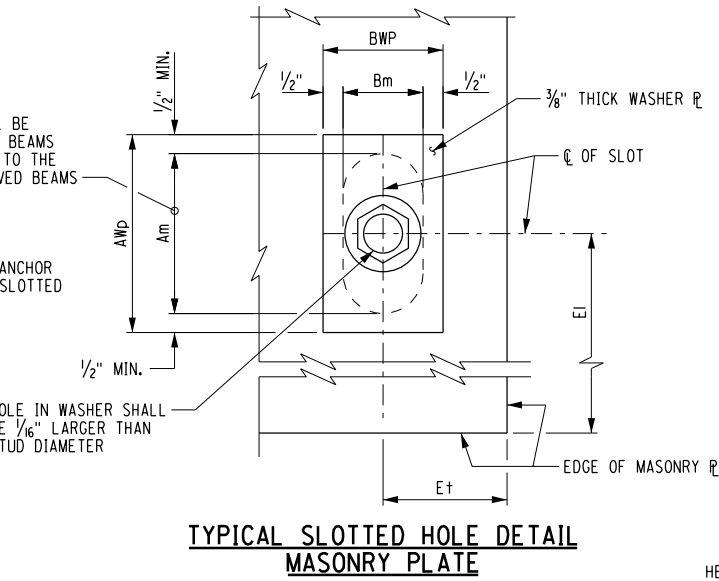
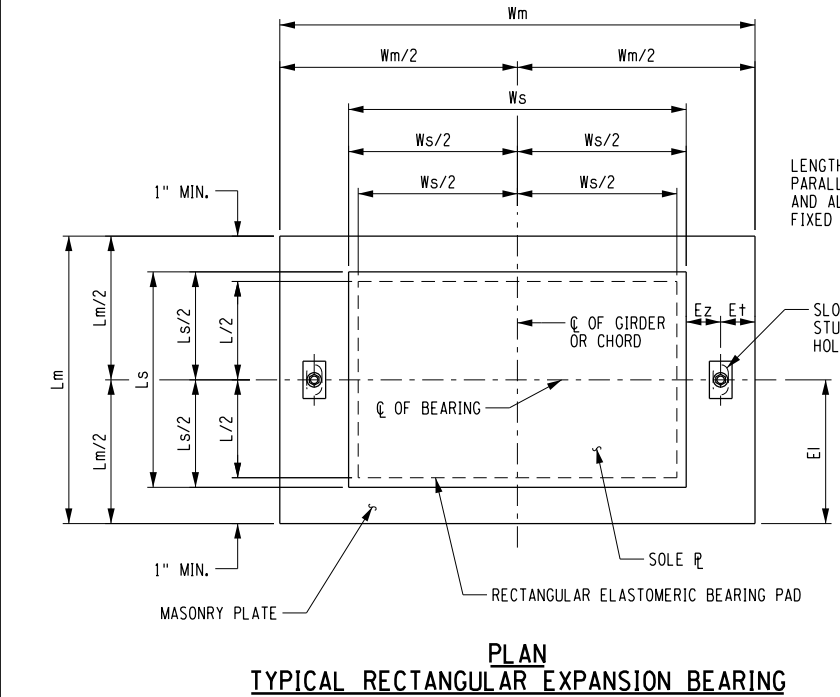
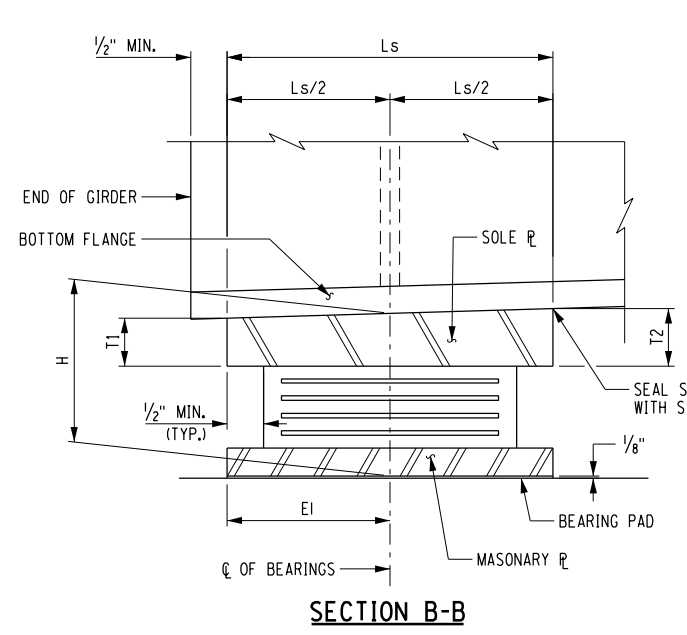
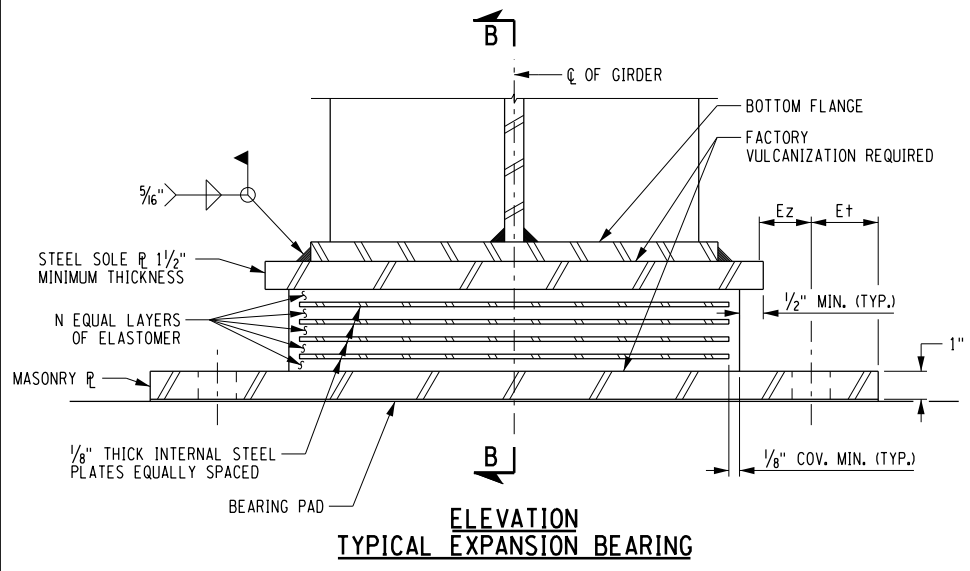
TYPICAL PEDESTAL ELEVATION

PEDESTAL DETAILS
(NOT TO SCALE)

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			ABUTMENT DETAILS - 02
	TOWN OF NEWCOMB					
	COUNTY: ESSEX	REGION: 1				

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PROJECT MANAGER C. TUTUNJIAN
 CHECK A. BROWN
 DRAFTING K. DETRICK
 CHECK A. BROWN
 DESIGN L. SHORT
 JOB MANAGER C. TUTUNJIAN
 DESIGN SUPERVISOR C. TUTUNJIAN
 FILE NAME = N:\Projects\2017\117-050-Campsite road\dwg\117-050-crb.dtl.brg-01.dgn
 DATE/TIME = 2/15/2019
 USER = KDetrick



ANCHOR STUDS, WASHERS, WASHER PLATES, ANCHOR PLATES, AND NUTS SHALL MEET THE REQUIREMENTS OF SUBSECTION 723-60. THEY SHALL BE GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF MATERIAL SUBSECTION 719-01, "GALVANIZED COATINGS AND REPAIR METHODS." THE COST, INCLUDING GALVANIZING, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.

NOTES:
 THE BEARINGS SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION SECTION 565 UNLESS OTHERWISE NOTED.
 ALL ELASTOMER SHALL BE 50 DUROMETER HARDNESS ON THE SHORE A SCALE.
 ALL STEEL EXCEPT THE INTERNAL STEEL PLATES SHALL CONFORM TO ASTM A709, GR. 50, UNLESS OTHERWISE NOTED.
 BEARING PADS SHALL CONFORM TO ONE OF THE FOLLOWING MATERIAL SPECIFICATIONS: 728-01, 728-02 OR 728-03.
 INSTALLATION ALIGNMENT:
 THE MAXIMUM VARIATION FROM PERFECT ALIGNMENT UNDER FULL DEAD LOAD SHALL NOT EXCEED 3/16". 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.
 CONCRETE SURFACES UNDER THE BEARINGS SHALL CONFORM TO SUBSECTION 565-3.02 "CONCRETE BEARING SURFACE PREPARATION" OF THE NEW YORK STATE STANDARD SPECIFICATIONS, CONSTRUCTION AND MATERIALS.
 THE BEARING PAD, ANCHOR STUDS WASHER PLATES AND NUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE BEARING ITEM.
 IF THE ANCHOR STUDS ARE SET UNDER THE SOLE PLATE, A MINIMUM CLEARANCE EQUAL TO TWO TIMES THE THICKNESS OF ANCHOR NUT PLUS 1" SHALL BE MAINTAINED BETWEEN THE TOP OF MASONRY PLATE AND BOTTOM OF SOLE PLATE.

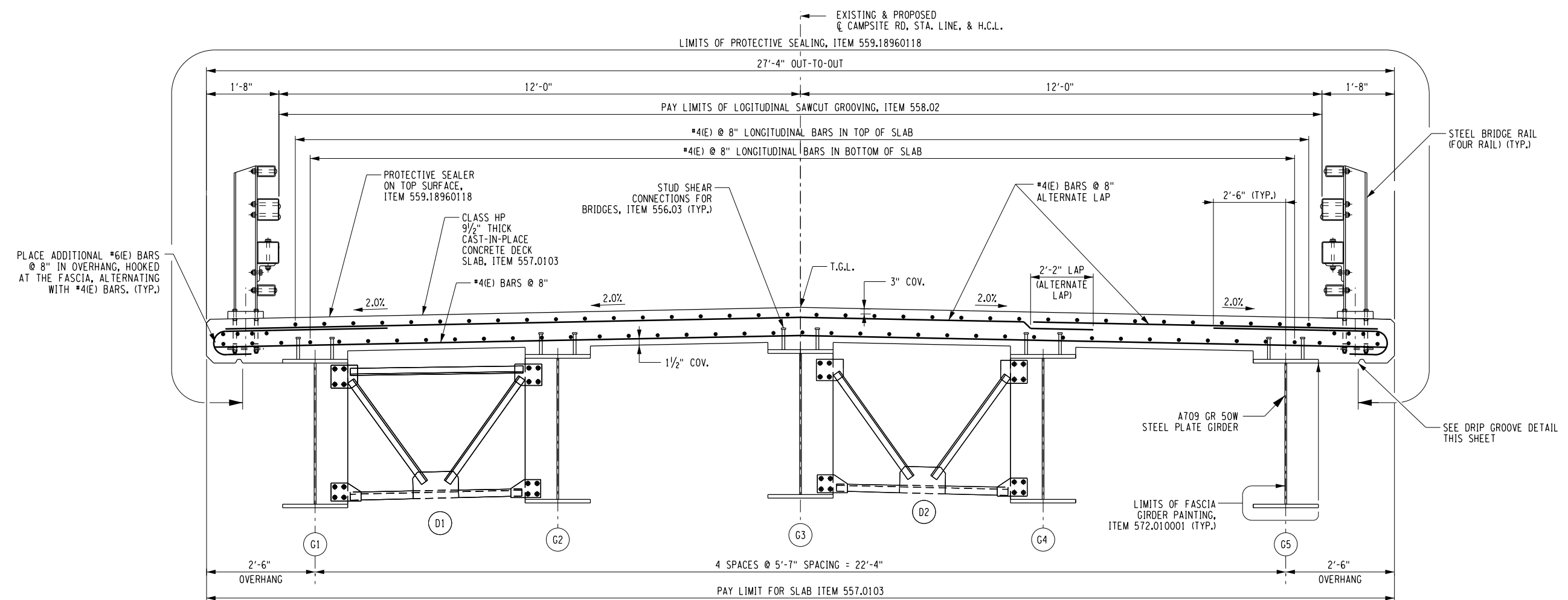
EXPANSION ELASTOMERIC BEARING (TYPE E.B.) TABLE																															
LOCATION	ITEM NO.	QUANTITY REQUIRED	D.L. + S.D.L. (kips)	L.L. WITHOUT IMPACT (kips)	TOTAL DESIGN REACTION (kips)	SHAPE FACTOR	ELASTOMER LAYER				hr t	COMP. AREA (SQ. In.)	SHEAR AREA (SQ. In.)	MASONRY PLATE					ANCHOR STUDS		WELD SIZE	SOLE PLATE		BRG. H							
							THK/LAYER	NO. LAYERS	L	W				Wm	Lm	Tm	Et	EI	Ez	Am		Bm	DIA.		STUDS/BRG.	AWp	BWp	Ws	Ls	T1	T2
WEST	565.2032	5.0	57.0	57.0	114.0	6.24	0.5	3	12.0	13.0	1.50	150	156	26.0	14.0	1.0	2.0	7.0	1.5	2.5	1.375	1.0	2	5/16	3.5	2.375	19.0	13.0	1.5	1.5	4.25
EAST	565.2032	5.0	57.0	57.0	114.0	6.24	0.5	3	12.0	13.0	1.50	150	156	26.0	14.0	1.0	2.0	7.0	1.5	2.5	1.375	1.0	2	5/16	3.5	2.375	19.0	13.0	1.5	1.5	4.25

TABLE DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. T2 IS UPSTATION OF T1.

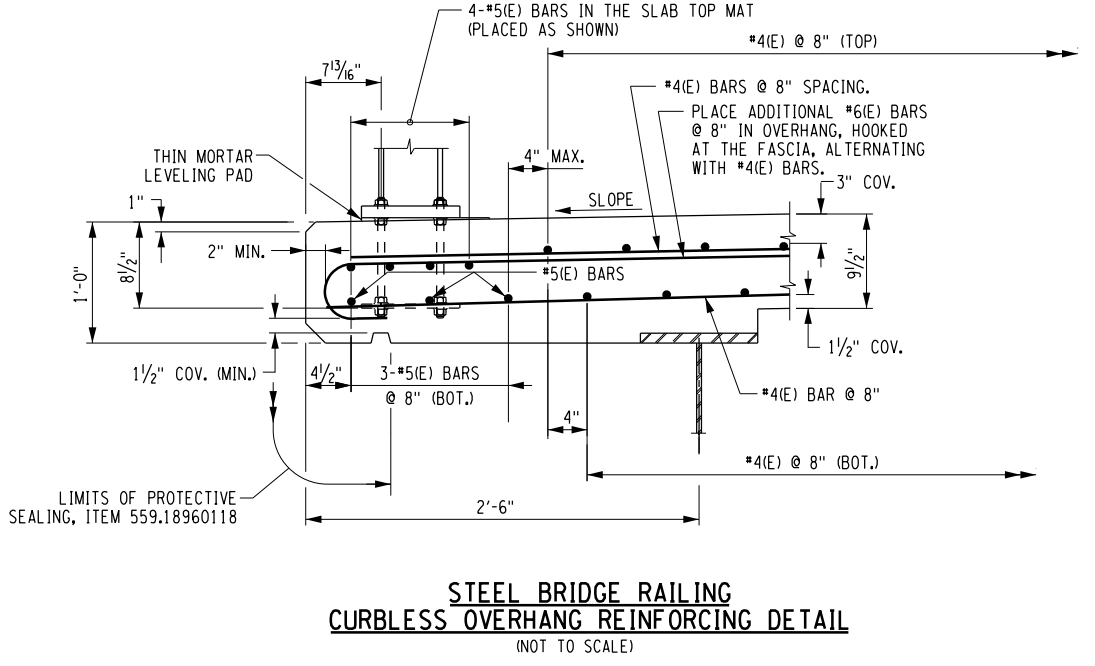
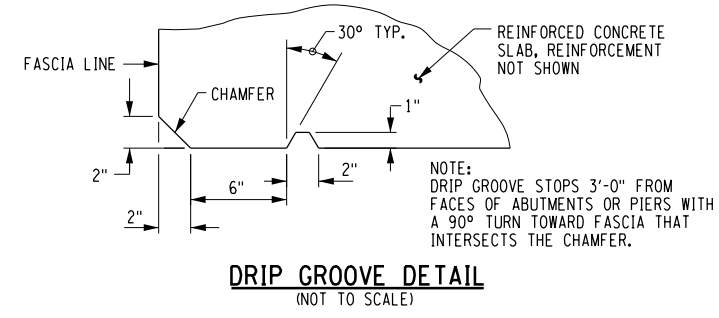
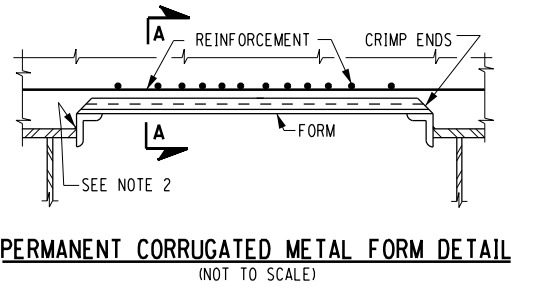
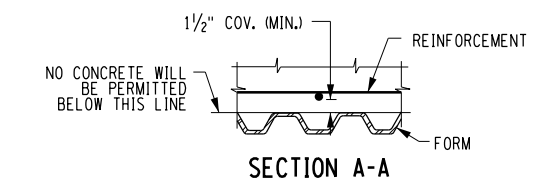
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES BIN 3302040	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT					
	TOWN OF NEWCOMB					
	COUNTY: ESSEX REGION: 1					
BEARING DETAILS			DRAWING NO. ST-16		SHEET NO. 28 OF 39	

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.

FILE NAME = N:\Projects\2017\117-050_CampsiteRoad\dwg\117-050_cpb_sec.trn.dgn
 DATE/TIME = 2/15/2019
 USER = KDetrick
 DESIGN SUPERVISOR C. TUTUNJIAN
 JOB MANAGER C. TUTUNJIAN
 DESIGN L. SHORT
 CHECK A. BROWN
 DRAFTING K. DETRICK
 CHECK A. BROWN
 PROJECT MANAGER C. TUTUNJIAN



BRIDGE TRANSVERSE SECTION
SCALE: 3/8" = 1'-0"

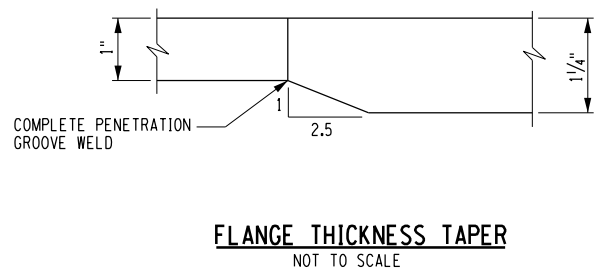
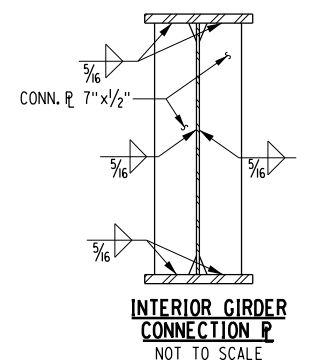
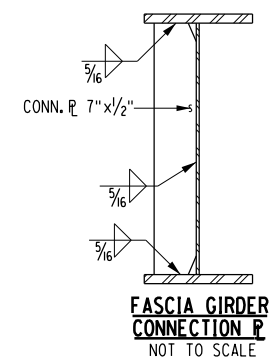
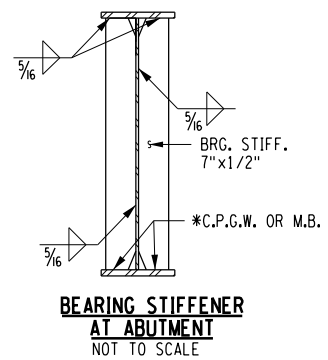
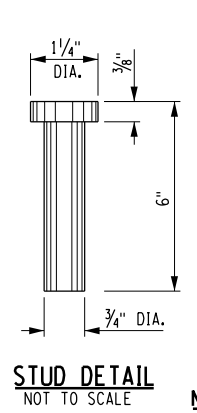
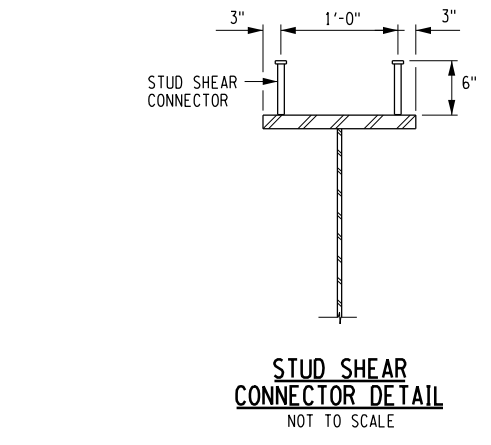
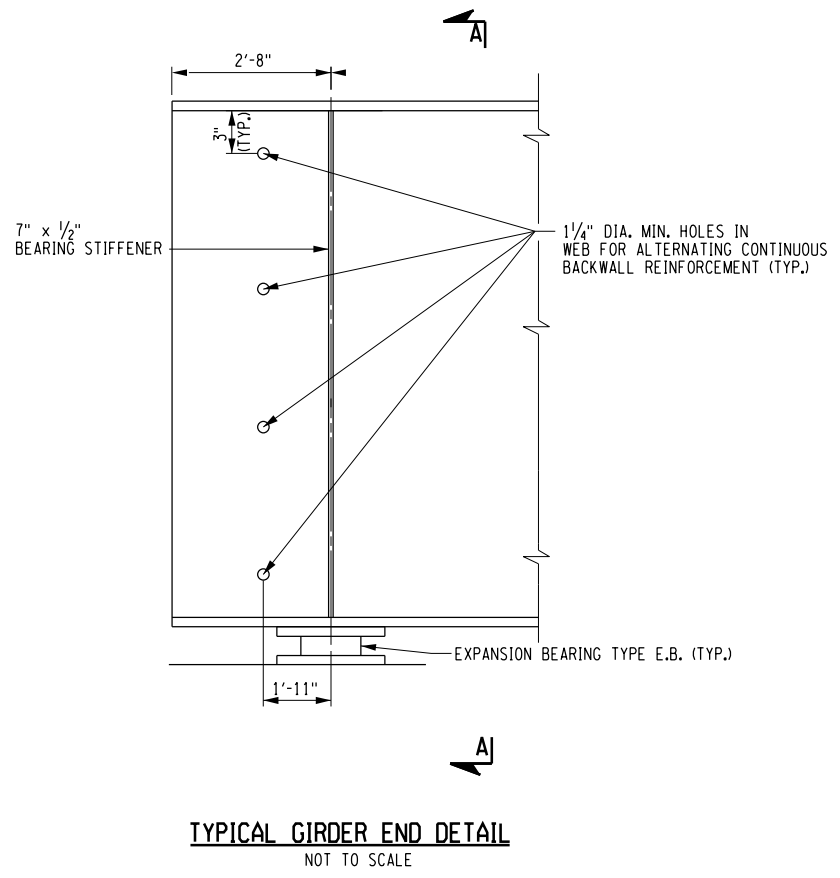


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			
	TOWN OF NEWCOMB	REGION: 1			TRANSVERSE SECTION	DRAWING NO. ST-17
COUNTY: ESSEX				SHEET NO. 29 OF 39		

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.

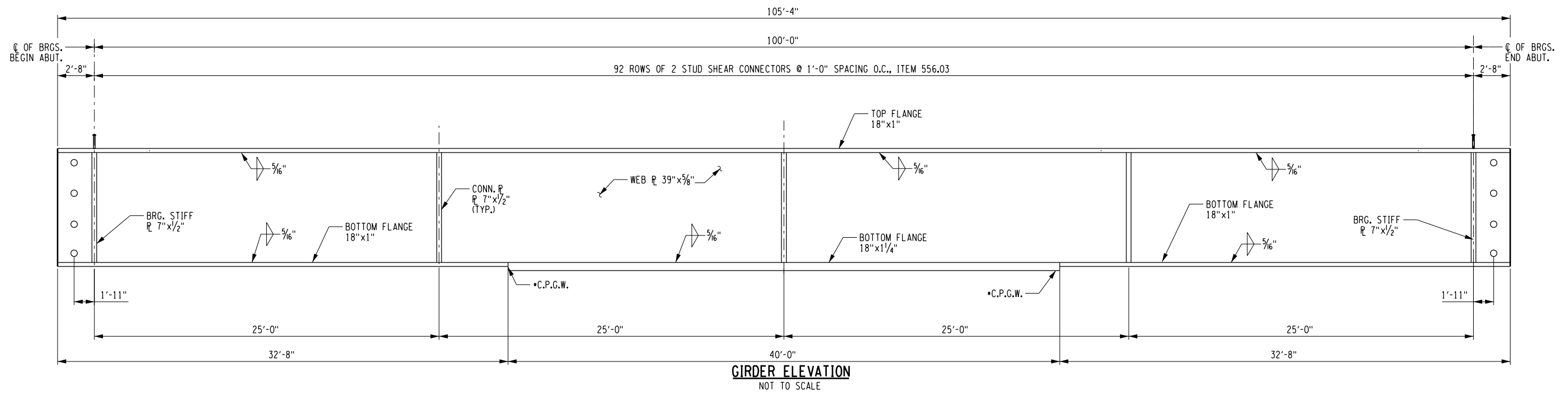
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 DATE/TIME = 2/15/2019
 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT DRAFTING K. DETRICK CHECK A. BROWN CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN



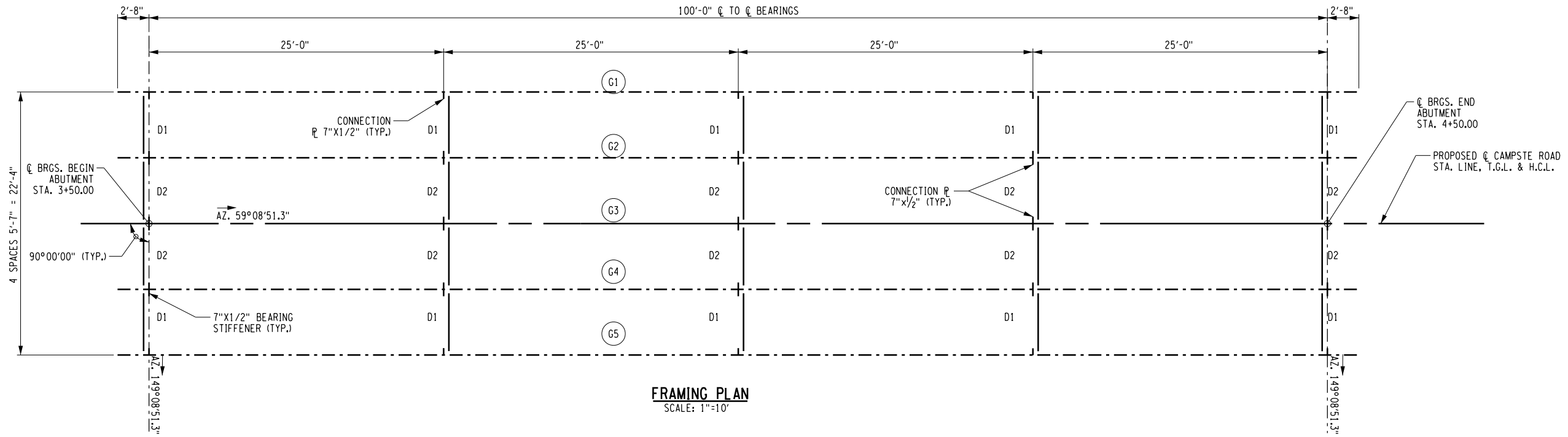
- NOTES:**
1. NO WELDING SHALL BE ALLOWED WITHIN THE TENSION ZONES SHOWN UNLESS SPECIFICALLY NOTED. THE ATTACHMENT OF FORMING DEVICES OR OTHER CONSTRUCTION AIDS BY WELDING WITHIN THE TENSION AREA SHOWN IS PROHIBITED.
 2. THE ENDS OF ALL GIRDERS AND THE BEARING STIFFENERS SHALL BE VERTICAL. ALL CONNECTION PLATES AND INTERMEDIATE STIFFENERS MAY BE PERPENDICULAR TO THE TOP FLANGES.
 3. 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.

- C.P.G.W. = COMPLETE PENETRATION GROOVE WELD
- M.B. = MILL TO BEAR



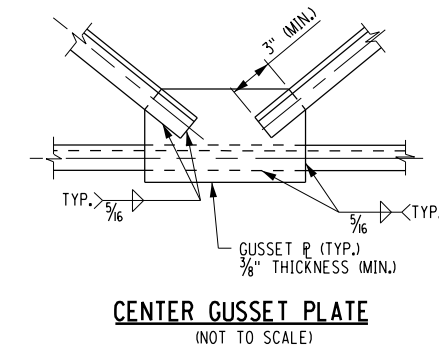
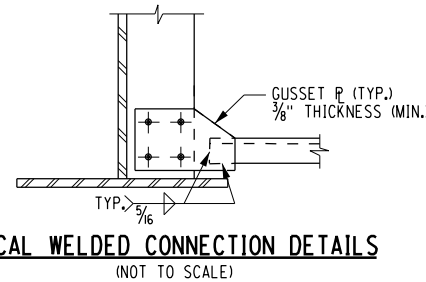
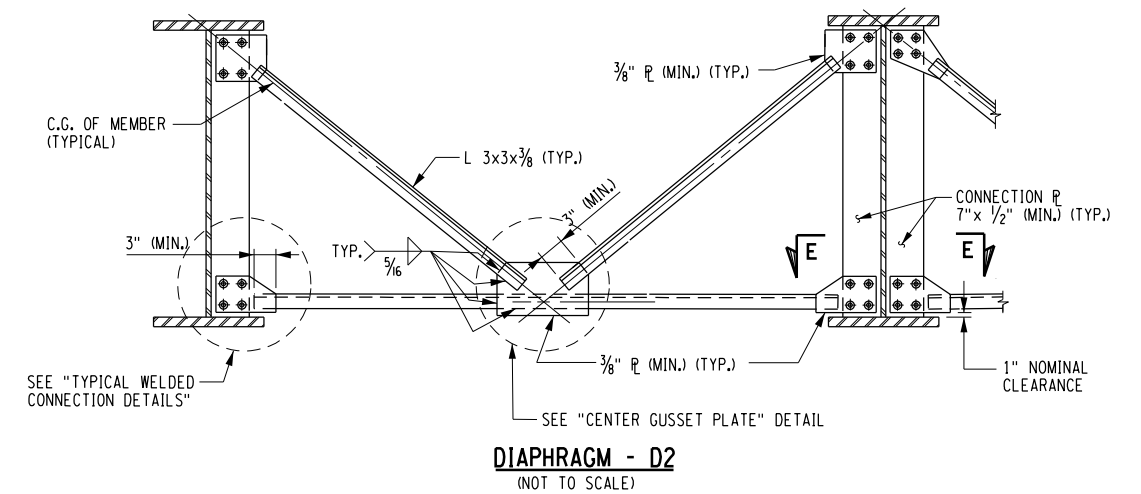
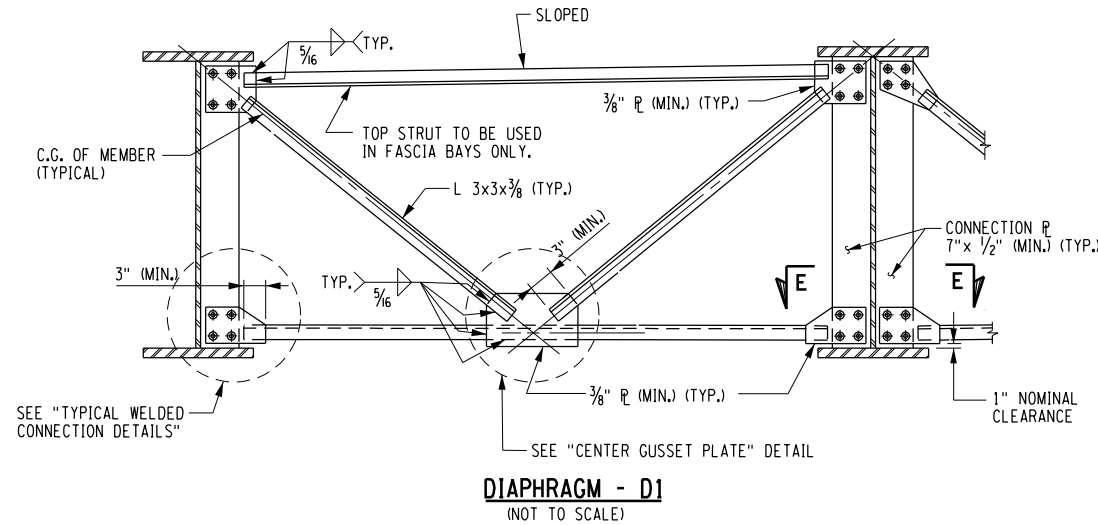
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			GIRDER ELEVATION & DETAILS
	TOWN OF NEWCOMB				SHEET NO. 31 OF 39	
	COUNTY: ESSEX	REGION: 1				

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.



NOTES:

1. CONNECTIONS SHALL BE MADE ACCORDING TO THE NEW YORK STATE STEEL CONSTRUCTION MANUAL.
2. UNLESS OTHERWISE INDICATED, BOLTED CONNECTIONS SHALL BE MADE WITH 1/8" DIA. A325 HIGH-STRENGTH BOLTS.
3. THE CONTRACTOR MAY PLACE DIAPHRAGMS ON EITHER SIDE OF THE BEARING STIFFENERS OR CONNECTION PLATES AS NECESSARY TO CORRECT ALIGNMENT PROVIDED THERE WILL BE NO INTERFERENCE WITH OTHER STRUCTURAL DETAILS.
4. TAPERED OR FLAT SHIM PLATES MAY BE USED IN THE CONNECTION BETWEEN SKEWED DIAPHRAGMS AND THE BEARING STIFFENERS, STIFFENER CONNECTION PLATES OR GUSSET PLATES. VARIABLE THICKNESSES OF SHIM PLATES MAY BE USED. THE MINIMUM THICKNESS OF SHIM PLATE SHALL BE 1/8" WITH A MAXIMUM NUMBER OF THREE SHIM PLATES PERMITTED AT ANY CONNECTION. THE TOTAL THICKNESS OF ALL SHIM PLATES USED AT ANY CONNECTION SHALL NOT EXCEED 1". SHIM PLATES SHALL HAVE THE DIMENSIONS OF THE FAYING SURFACE. THE SHIM MATERIAL SHALL CONFORM TO ASTM DESIGNATION A588 FOR WEATHERING STEEL APPLICATIONS. NO ADDITIONAL PAYMENT WILL BE MADE FOR FURNISHING AND PLACING THE SHIM PLATES.



AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSTE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			FRAMING PLAN DRAWING NO. ST-18 SHEET NO. 30 OF 39
	TOWN OF NEWCOMB	REGION: 1				

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.

DESIGN LOAD TABLE		
	UNIT	LOAD K/ft.
GIRDERS 1.5	SLAB	0.69
	HAUNCH	0.04
	GIRDER	0.23
	S.I.P. FORMS	0.02
	DIAPHRAGMS	0.02
	TOTAL	1.00
S.D.L.	RAILING	0.03
	FUTURE W.S.	0.11
	TOTAL	0.14
GIRDERS 2.3.4	SLAB	0.66
	HAUNCH	0.04
	GIRDER	0.23
	S.I.P. FORMS	0.02
	DIAPHRAGMS	0.02
	TOTAL	0.97
S.D.L.	RAILING	0.03
	FUTURE W.S.	0.11
	TOTAL	0.14

DESIGN LIVE LOAD = HL-93

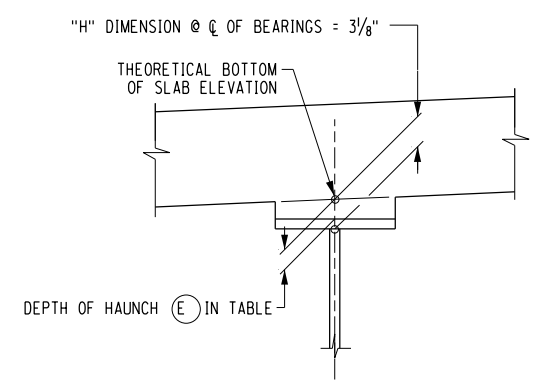
MOMENT & SHEAR TABLE			¢ OF BRGS. BEG. ABUT.	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	¢ OF BRGS. END ABUT.
GIRDERS 1.5	D.L.	MOMENT	0.0	414.5	738.5	970.7	1110.3	1157.8	1110.3	970.7	738.5	414.5	0.0
		SHEAR	46.0	36.9	27.9	18.6	9.4	0.2	-9.4	-18.6	-27.9	-36.9	-46.0
	S.D.L.	MOMENT	0.0	62.9	111.9	146.8	167.8	174.8	167.8	146.8	111.9	62.9	0.0
		SHEAR	7.0	5.6	4.2	2.8	1.4	0.0	-1.4	-2.8	-4.2	-5.6	-7.0
	HL-93(+)	MOMENT	0.0	573.6	1009.0	1306.2	1481.3	1526.2	1481.3	1306.2	1009.0	573.6	0.0
		SHEAR	64.3	55.8	47.7	39.9	32.5	25.4	18.7	12.3	6.7	2.5	0.0
HL-93(-)	MOMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	SHEAR	0.0	-2.5	-6.7	-12.3	-18.7	-25.4	-32.5	-39.9	-47.7	-55.8	-64.3	
GIRDERS 2.3.4	D.L.	MOMENT	0.0	430.7	768.1	1009.9	1154.7	1205.1	1154.7	1009.9	768.1	430.7	0.0
		SHEAR	47.7	38.4	29.1	19.2	9.8	0.3	-9.8	-19.2	-29.1	-38.4	-47.7
	S.D.L.	MOMENT	0.0	65.5	116.5	152.9	174.8	182.1	174.8	152.9	116.5	65.5	0.0
		SHEAR	7.3	5.8	4.4	2.9	1.5	0.0	-1.5	-2.9	-4.4	-5.8	-7.3
	HL-93(+)	MOMENT	0.0	513.1	902.5	1168.3	1324.9	1365.1	1324.9	1168.3	902.5	513.1	0.0
		SHEAR	76.0	66.0	56.4	47.2	38.4	30.0	22.1	14.5	7.9	2.9	0.0
HL-93(-)	MOMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
	SHEAR	0.0	-2.9	-7.9	-14.5	-22.1	-30.0	-38.4	-47.2	-56.4	-66.0	-76.0	

MOMENTS AND SHEARS ARE UNFACTORED
 MOMENTS ARE EXPRESSED AS Kip-Feet
 SHEARS ARE EXPRESSED AS Kips

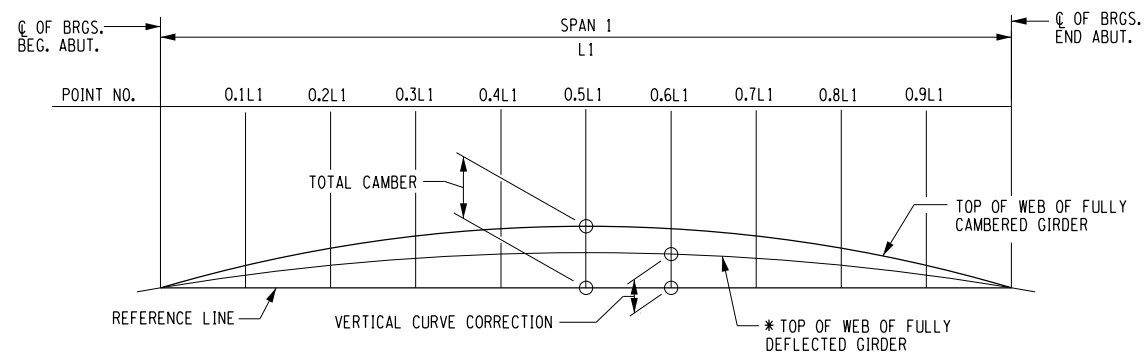
CAMBER TABLE			¢ OF BRGS. BEG. ABUT.	0.1 L1	0.2 L1	0.3 L1	0.4 L1	0.5 L1	0.6 L1	0.7 L1	0.8 L1	0.9 L1	¢ OF BRGS. END ABUT.
GIRDERS 1.5	I STEEL D.L. (ft.)			0.00	0.03	0.05	0.07	0.08	0.08	0.07	0.05	0.03	0.00
	II CONCRETE D.L. (ft.)			0.00	0.08	0.14	0.20	0.23	0.24	0.23	0.20	0.14	0.08
	III SUPERIMPOSED D.L. (ft.)			0.00	0.01	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.01
	IV VERTICAL CURVE (ft.)			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL = I+II+III+IV (ft.)			0.00	0.11	0.21	0.29	0.34	0.36	0.34	0.29	0.21	0.11	0.00
GIRDERS 2.3.4	I STEEL D.L. (ft.)			0.00	0.03	0.05	0.07	0.08	0.08	0.07	0.05	0.03	0.00
	II CONCRETE D.L. (ft.)			0.00	0.08	0.15	0.21	0.24	0.25	0.24	0.21	0.15	0.08
	III SUPERIMPOSED D.L. (ft.)			0.00	0.01	0.02	0.03	0.03	0.03	0.03	0.03	0.02	0.01
	IV VERTICAL CURVE (ft.)			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL = I+II+III+IV (ft.)			0.00	0.12	0.22	0.30	0.35	0.37	0.35	0.30	0.22	0.12	0.00

HAUNCH TABLE			¢ OF BRGS. BEG. 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	¢ OF BRGS. END ABUT.
GIRDER 1	A REQ'D BOTTOM OF SLAB ELEVATION			1569.70	1569.65	1569.60	1569.55	1569.50	1569.45	1569.40	1569.35	1569.30	1569.25
	B TOP OF STEEL EL. (FIELD MEASURE)												
	C = A - B												
	D CONCRETE + S.D.L. DEFLECTION			0.00	0.12	0.22	0.30	0.35	0.37	0.35	0.30	0.22	0.12
E DEPTH OF HAUNCH REQ'D = C + D (ft.)													
GIRDER 2	A REQ'D BOTTOM OF SLAB ELEVATION			1569.81	1569.88	1569.83	1569.78	1569.73	1569.68	1569.63	1569.58	1569.53	1569.48
	B TOP OF STEEL EL. (FIELD MEASURE)												
	C = A - B												
	D CONCRETE + S.D.L. DEFLECTION			0.00	0.11	0.21	0.29	0.34	0.36	0.34	0.29	0.21	0.11
E DEPTH OF HAUNCH REQ'D = C + D (ft.)													
GIRDER 3	A REQ'D BOTTOM OF SLAB ELEVATION			1569.93	1569.88	1569.83	1569.78	1569.73	1569.68	1569.63	1569.58	1569.53	1569.48
	B TOP OF STEEL EL. (FIELD MEASURE)												
	C = A - B												
	D CONCRETE + S.D.L. DEFLECTION			0.00	0.11	0.21	0.29	0.34	0.36	0.34	0.29	0.21	0.11
E DEPTH OF HAUNCH REQ'D = C + D (ft.)													
GIRDER 4	A REQ'D BOTTOM OF SLAB ELEVATION			1569.81	1569.88	1569.83	1569.78	1569.73	1569.68	1569.63	1569.58	1569.53	1569.48
	B TOP OF STEEL EL. (FIELD MEASURE)												
	C = A - B												
	D CONCRETE + S.D.L. DEFLECTION			0.00	0.11	0.21	0.29	0.34	0.36	0.34	0.29	0.21	0.11
E DEPTH OF HAUNCH REQ'D = C + D (ft.)													
GIRDER 5	A REQ'D BOTTOM OF SLAB ELEVATION			1569.70	1569.65	1569.60	1569.55	1569.50	1569.45	1569.40	1569.35	1569.30	1569.25
	B TOP OF STEEL EL. (FIELD MEASURE)												
	C = A - B												
	D CONCRETE + S.D.L. DEFLECTION			0.00	0.12	0.22	0.30	0.35	0.37	0.35	0.30	0.22	0.12
E DEPTH OF HAUNCH REQ'D = C + D (ft.)													

NOTE:
 THE CONTRACTOR SHALL PROVIDE THE ENGINEER
 WITH THE COMPLETED HAUNCH TABLE PRIOR TO
 SETTING THE BOTTOM FORMWORK OF THE DECK.



GIRDER HAUNCH DETAIL
 NOT TO SCALE



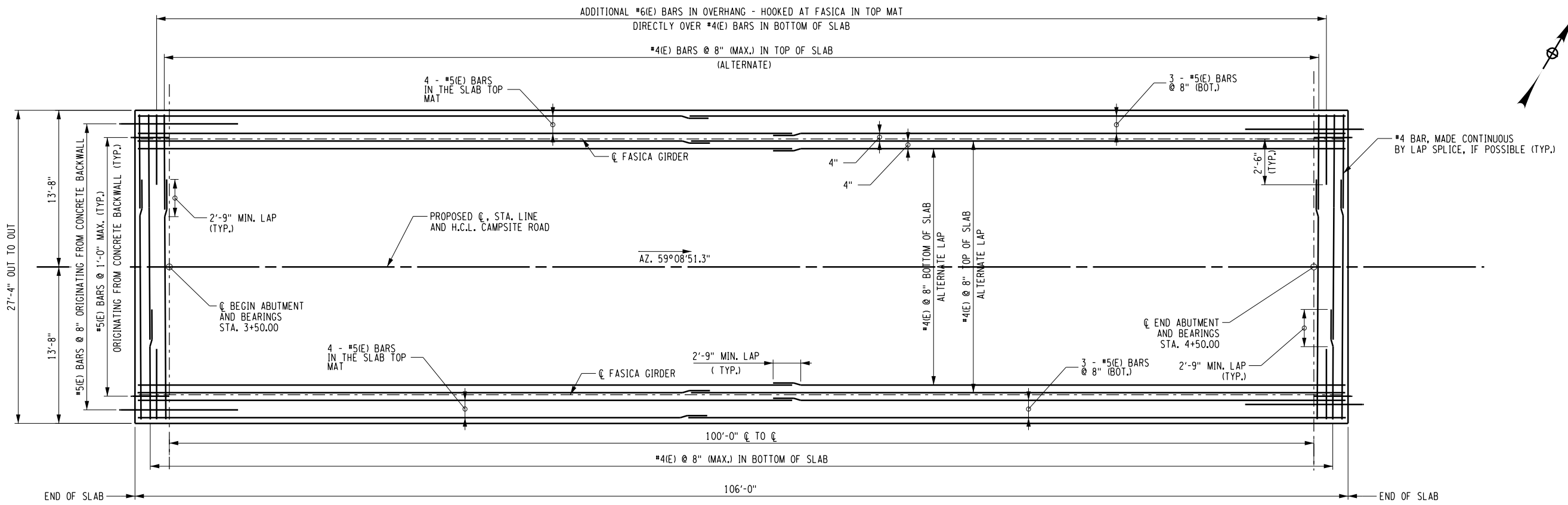
CAMBER DIAGRAM - SINGLE SPAN
 NOT TO SCALE

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN ft UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			
	TOWN OF NEWCOMB				HAUNCH AND CAMBER TABLES	DRAWING NO. ST-20
	COUNTY: ESSEX REGION: 1					SHEET NO. 32 OF 39

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.

FILE NAME = N:\Projects\2017\117-050-Campsite\cadd\dgr\117-050-cpb-slab_rnf.dgn
 DATE/TIME = 2/15/2019
 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT DRAFTING K. DETRICK CHECK A. BROWN CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN



DECK REINFORCING PLAN
 SCALE: 1"=10'-0"

SUPERSTRUCTURE SLAB TABLE		
SUPERSTRUCTURE SLAB CONCRETE ITEM 557.0103	LONGITUDINAL SAWCUT GROOVING ITEM 558.02	PROTECTIVE SEALER ITEM 559.18960118
321.9 SY	282.7 SY	3288.1 SF

NOTES:

- COVER FOR STEEL REINFORCEMENT SHALL BE 2" UNLESS OTHERWISE NOTED.
- FOR FASCIA DETAILS, SEE "TRANSVERSE SECTION" DRAWING.
- SEE DWG ST-14 FOR BARS ORIGINATING FROM BACKWALL AND TERMINATING IN DECK SLAB.

DECK PLACEMENT NOTES:

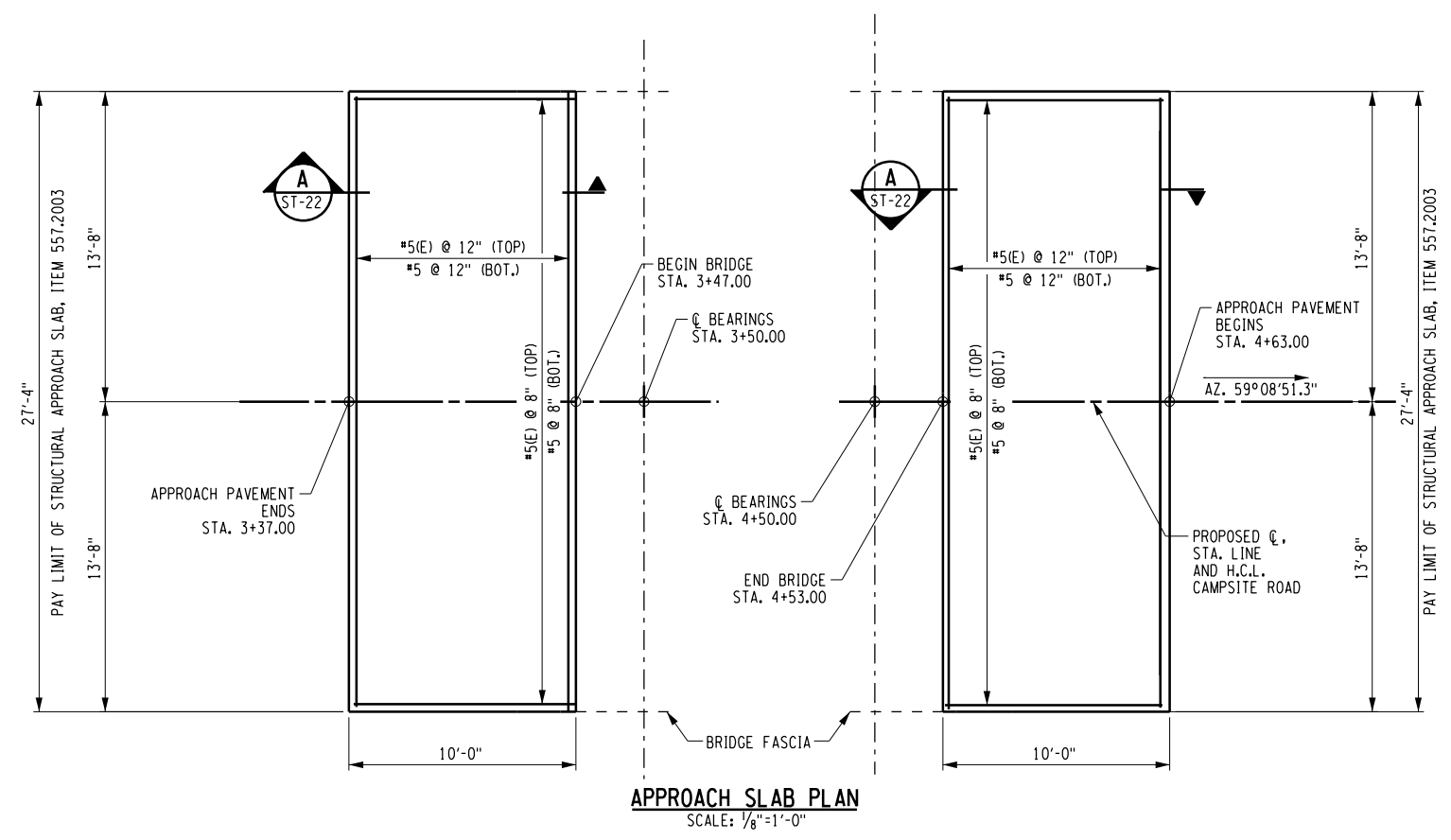
- CONCRETE PLACEMENT AND FINISHING OPERATIONS SHALL BE PERFORMED AS RAPIDLY AS POSSIBLE. THE ENGINEER MAY ORDER THE CONTRACTOR TO STOP PLACEMENT OPERATIONS AT ANYTIME IF, IN THE ENGINEER'S OPINION, CONCRETE PLACED DURING THE PLACEMENT HAS STARTED TO SET, OR IS ABOUT TO SET, AND FURTHER PLACEMENT OF CONCRETE WILL CAUSE DEFLECTION CRACKING.
- LONGITUDINAL CONSTRUCTION JOINTS WILL NOT BE PERMITTED.
- WET BURLAP CURING BLANKETS ARE REQUIRED TO BE PLACED 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.
- IN THE EVENT THE CONTRACTOR'S DECK PLACEMENT OPERATION IS STOPPED PRIOR TO COMPLETION, WHETHER BY THE CONTRACTOR'S OWN DECISION OR BY ORDER OF THE ENGINEER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A FINISHED DECK GRADE THAT MATCHES THE PLANNED PROFILE, INCLUDING ANY NECESSARY REVISIONS TO THE DECK FORMS.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES BIN 3302040	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT					DRAWING NO. ST-21
	TOWN OF NEWCOMB					SHEET NO. 33 OF 39
COUNTY: ESSEX	REGION: 1	SUPERSTRUCTURE SLAB REINFORCEMENT PLAN AND DETAILS				

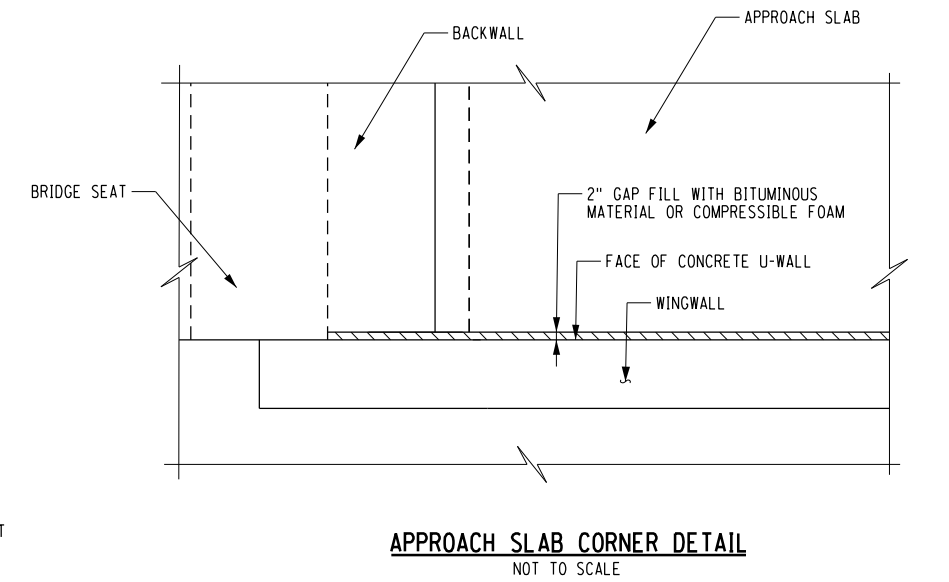
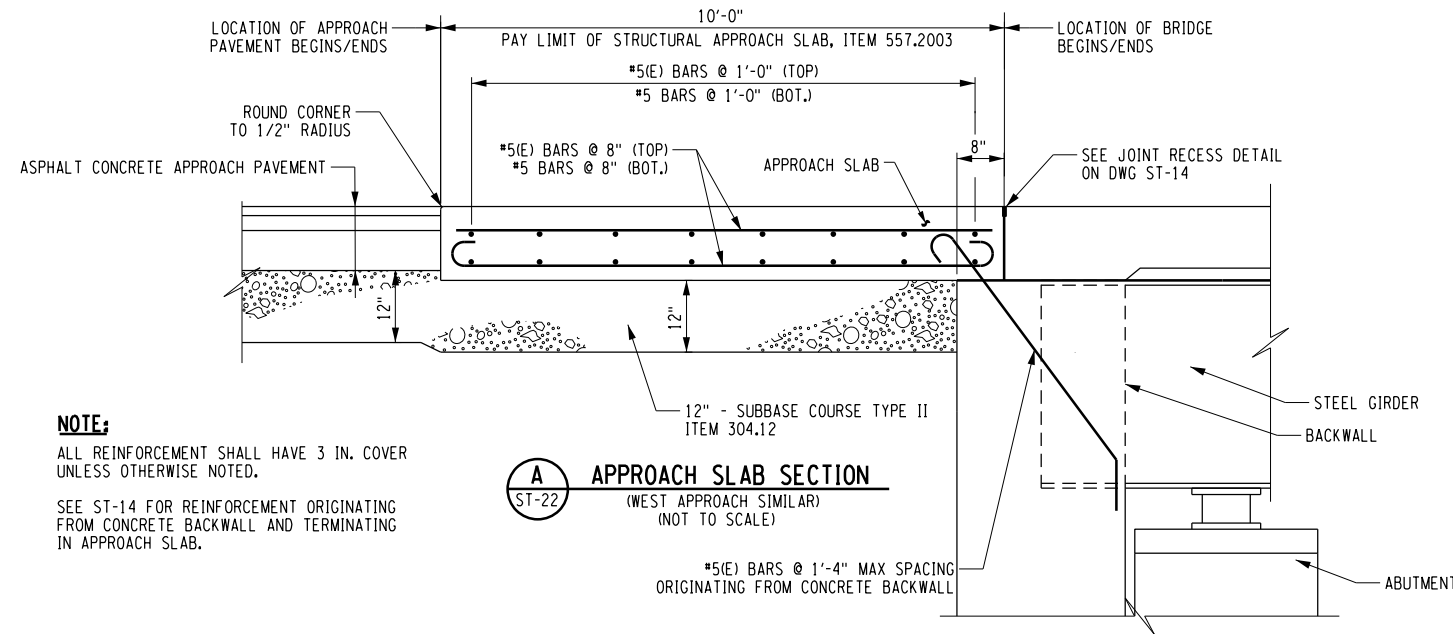
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT,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

FILE NAME = N:\Projects\2017\117-050_Campsite\cadd\dgr\117-050_cpb_slb_qpr-01.dgn
 DATE/TIME = 2/15/2019
 USER = ABrown

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT DRAFTING K. DETRICK CHECK A. BROWN CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN



APPROACH SLAB TABLE		
SUPERSTRUCTURE SLAB CONCRETE ITEM 557.0103	LONGITUDINAL SAWCUT GROOVING ITEM 558.02	PROTECTIVE SEALER ITEM 559.18960118
60.8 SY	53.4 SY	546.7 SF

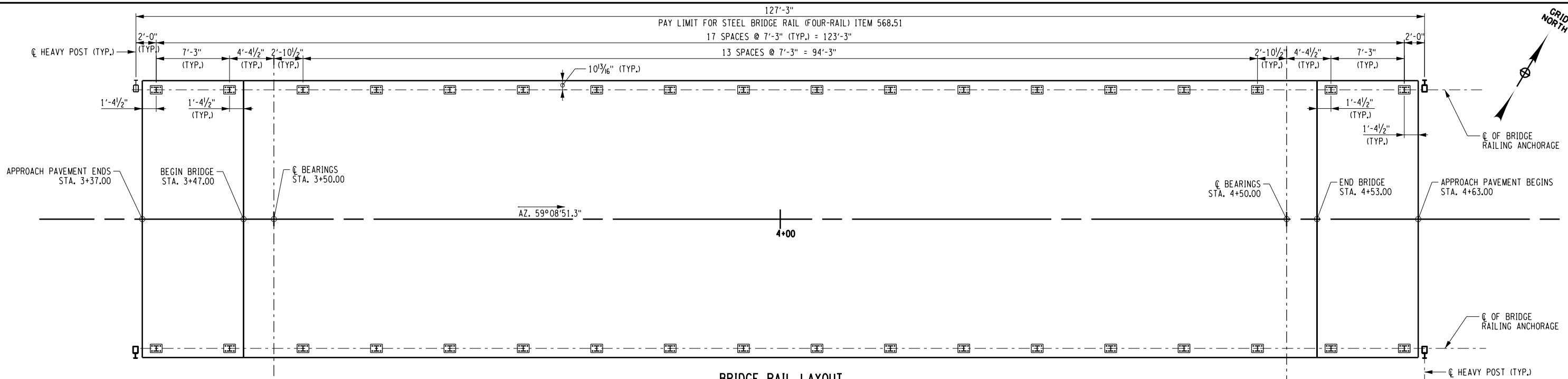


AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			APPROACH SLAB PLAN AND DETAILS
	TOWN OF NEWCOMB				SHEET NO. 34 OF 39	
	COUNTY: ESSEX	REGION: 1				

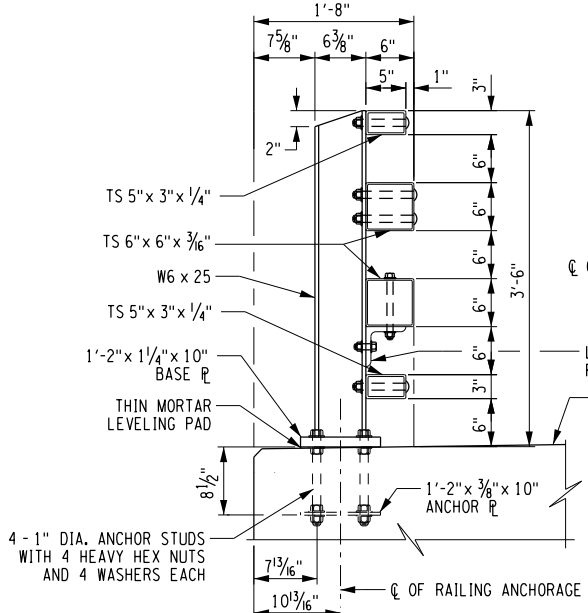
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FILE NAME = N:\Projects\2017\117-050_Campsite Road\117-050_crb.rlg.pln.dgn
 DATE/TIME = 2/15/2019
 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN
 DESIGN L. SHORT
 CHECK A. BROWN
 DRAFTING K. DETRICK
 CHECK A. BROWN
 PROJECT MANAGER C. TUTUNJIAN
 CHECK A. BROWN

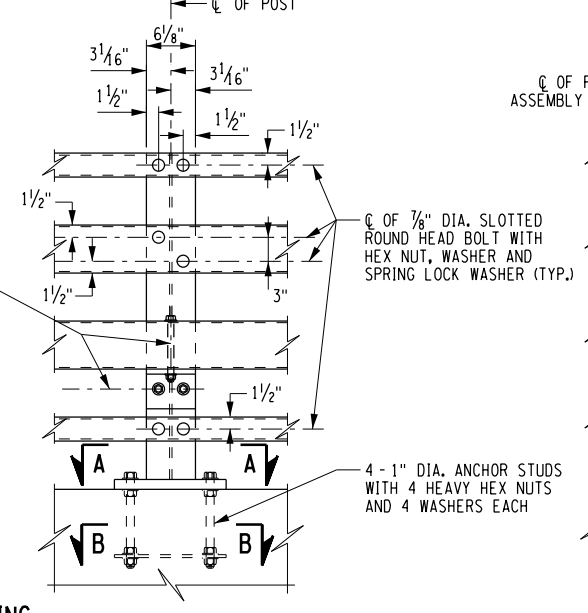


BRIDGE RAIL LAYOUT
SCALE: 1"=10'-0"

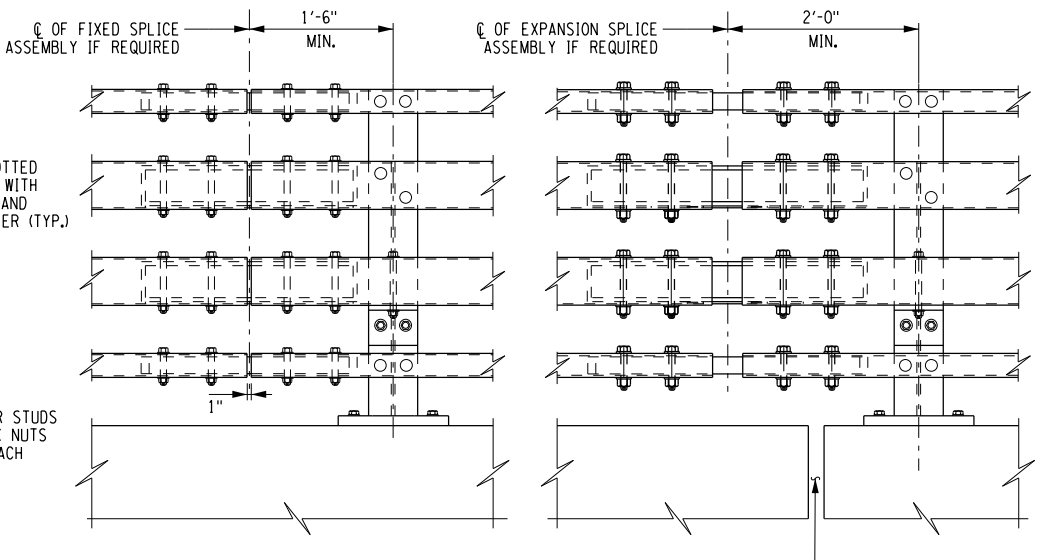


SECTION

STEEL BRIDGE RAILING (FOUR-RAIL) - CURBLESS

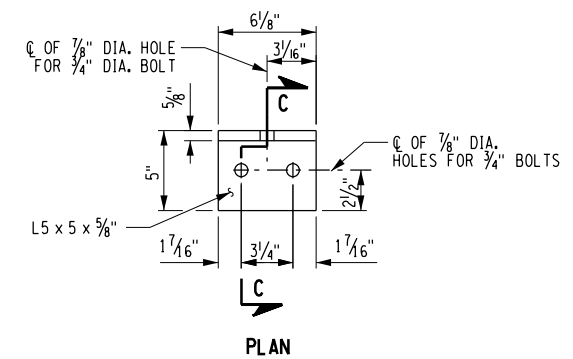


ELEVATION



ELEVATION

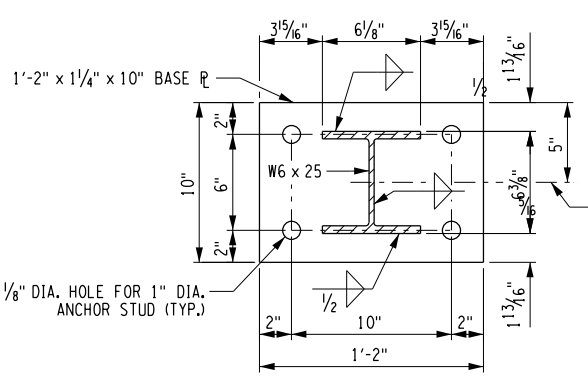
STEEL BRIDGE RAILING SPLICE DETAILS (FOUR-RAIL) - CURBLESS



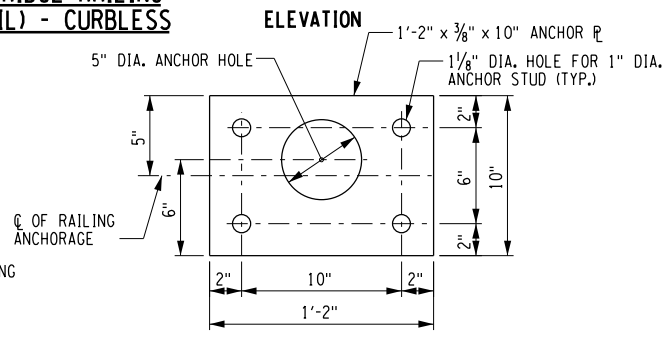
PLAN

SECTION C-C

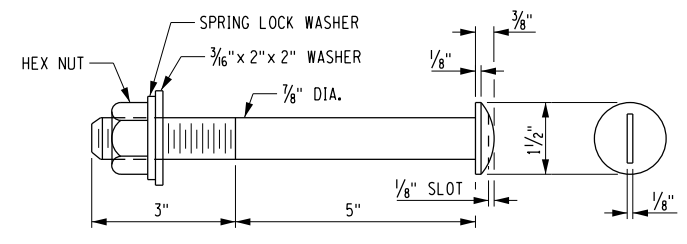
RAILING ANGLE DETAILS



SECTION A-A



SECTION B-B



SLOTTED ROUND HEAD BOLT

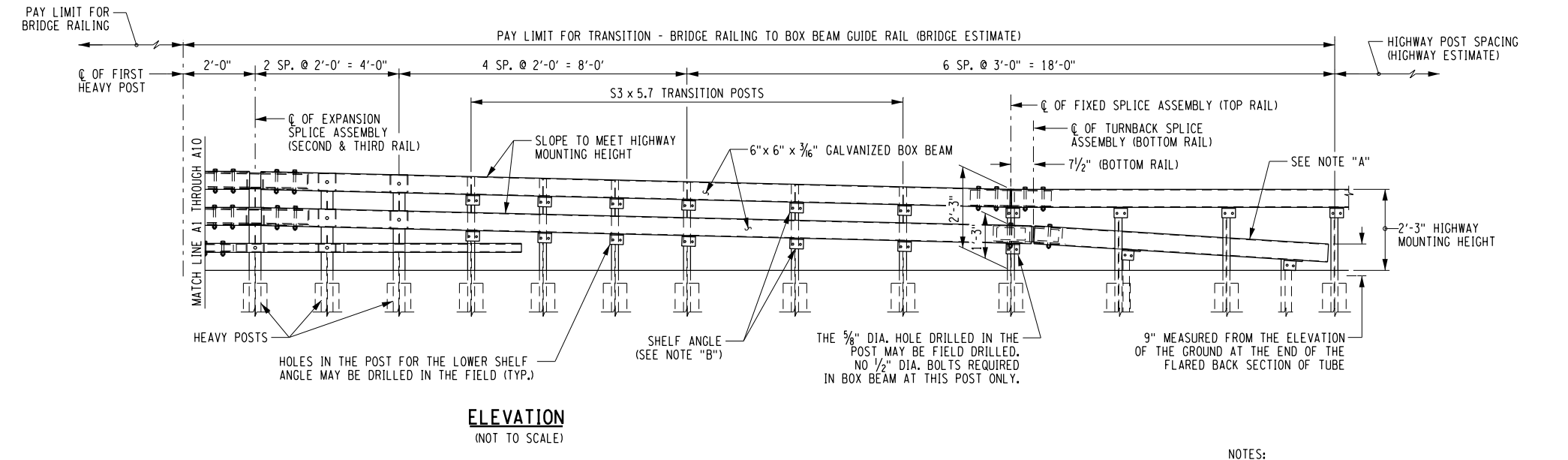
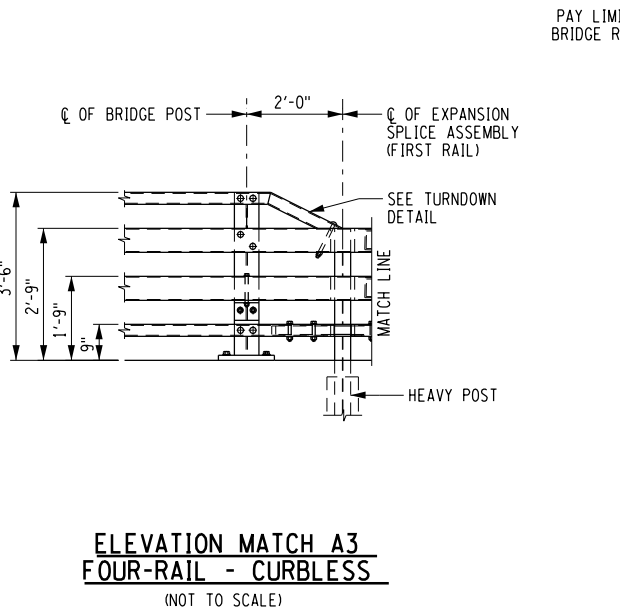
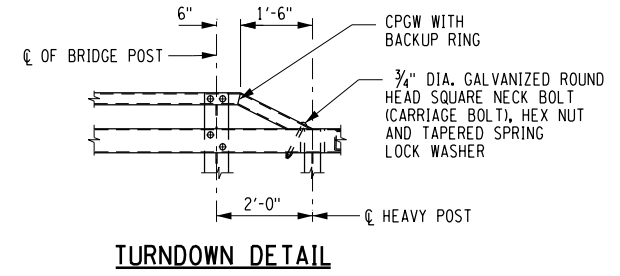
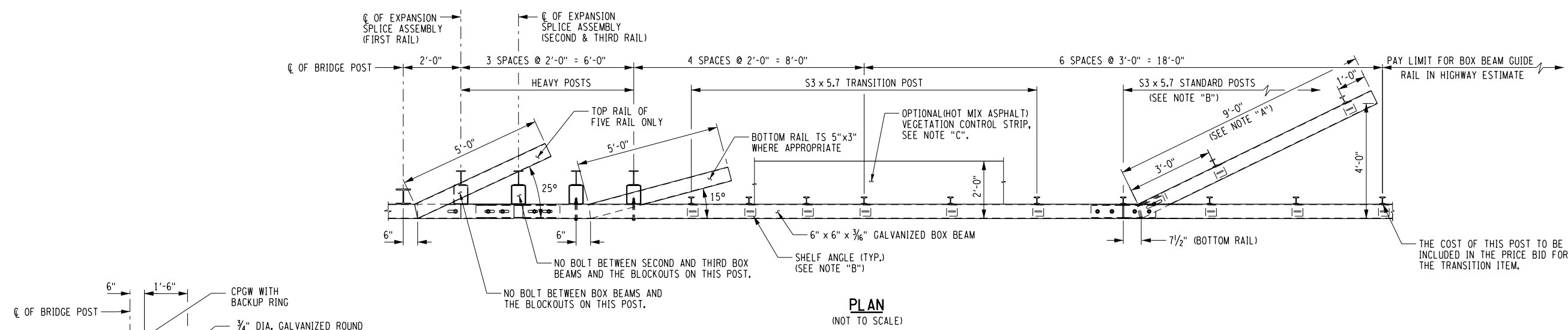
NOTES:
 ALL RAILING IS TO BE FABRICATED AND ERECTED ACCORDING TO SECTION 568 OF THE STANDARD SPECIFICATIONS.
 PRIOR TO GALVANIZING THE ASSEMBLED POST, GRIND ALL EDGES TO A MINIMUM RADIUS OF 1/16".
 BOLTS SHALL BE TORQUED SNUG TIGHT (APPROXIMATELY 100 FT-LB.).

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			BRIDGE RAIL PLAN AND DETAILS
	TOWN OF NEWCOMB	REGION: 1			SHEET NO. 35 OF 39	
	COUNTY: ESSEX					

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.

FILE NAME = N:\Projects\2017\117-050_Campsite\cadd\dgr\117-050_cpb.dtl.r1g.dgn
 DATE/TIME = 2/15/2019
 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT DRAFTING K. DETRICK CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN



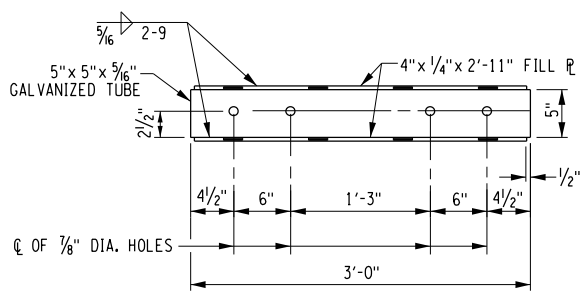
- NOTES:
- NOTE "A": THE COST OF THE POSTS, SPLICE TUBE AND RAIL FOR THE LOWER TUBE FLARE SECTION IS INCLUDED IN THE PRICE BID FOR THE TRANSITION ITEM.
 - NOTE "B": SEE TYPICAL RAIL TO POST CONNECTION DETAIL ON CURRENT HIGHWAY STANDARD SHEET TITLED "BOX BEAM GUIDE RAIL".
 - NOTE "C": PAVE THIS AREA WITH THE SAME MATERIAL USED IN THE STABILIZED SHOULDER. PAYMENT WILL BE MADE UNDER THE SHOULDER MATERIAL ITEM (HIGHWAY ESTIMATE).

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			TRANSITION BRIDGE RAILING PLAN, ELEVATION AND DETAILS
	TOWN OF NEWCOMB	REGION: 1			SHEET NO. 36 OF 39	

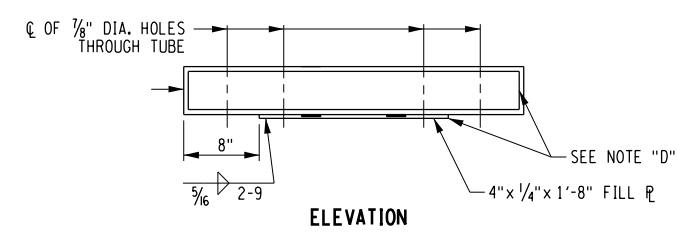
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FILE NAME = N:\Projects\2017\117-050_Campsite\cadd\dgr\117-050-cpb.dtl Fig. 02.dgn
 DATE/TIME = 2/15/2019
 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT CHECK A. BROWN DRAFTING K. DETRICK CHECK K. DETRICK PROJECT MANAGER A. BROWN CHECK A. BROWN C. TUTUNJIAN

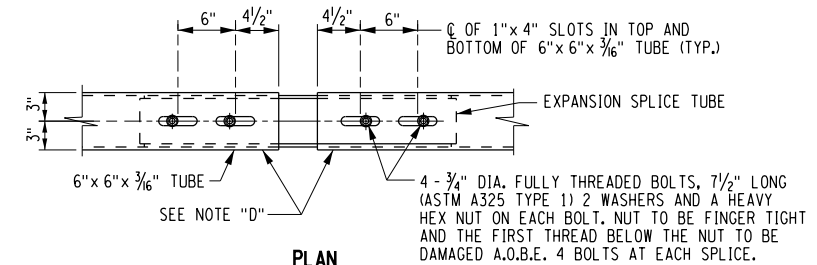


PLAN

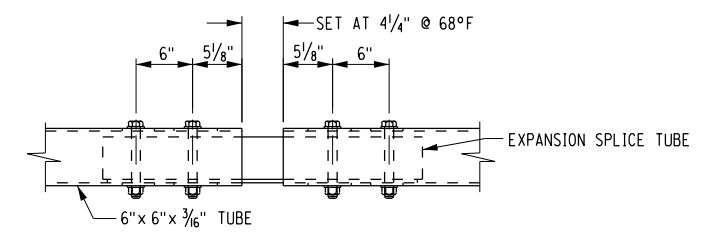


ELEVATION

EXPANSION SPLICE TUBE

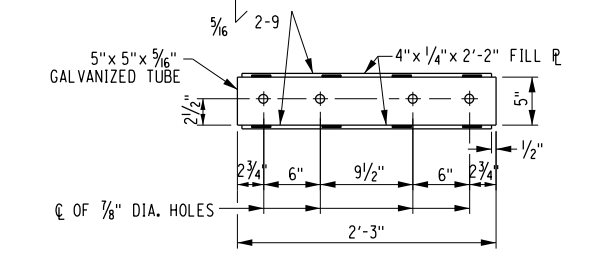


PLAN

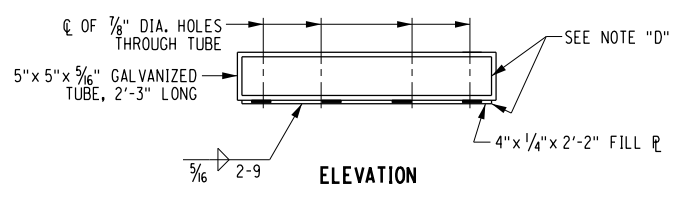


ELEVATION

EXPANSION SPLICE ASSEMBLY

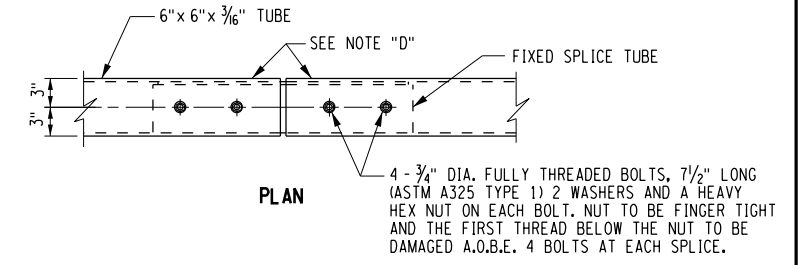


PLAN

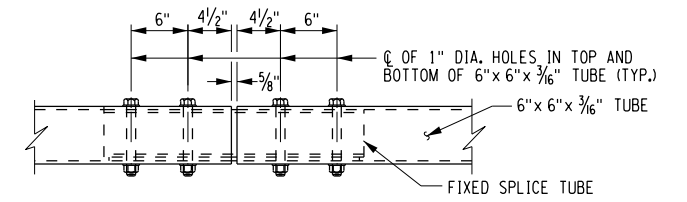


ELEVATION

FIXED SPLICE TUBE

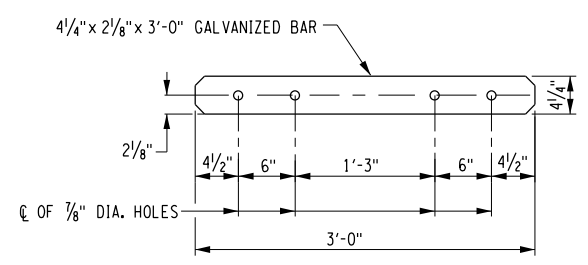


PLAN

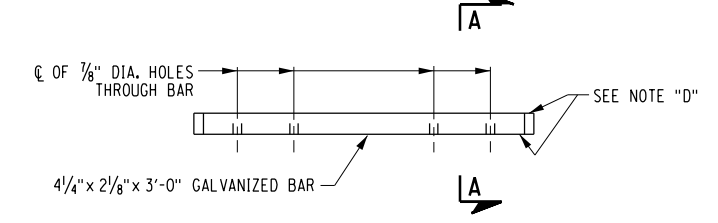


ELEVATION

FIXED SPLICE ASSEMBLY

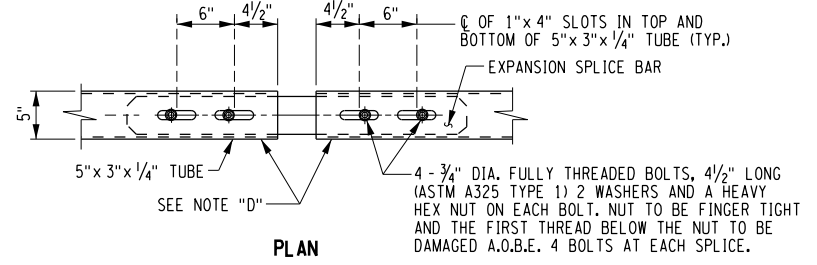


PLAN

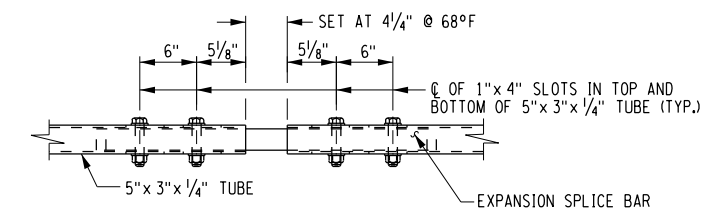


ELEVATION

EXPANSION SPLICE BAR

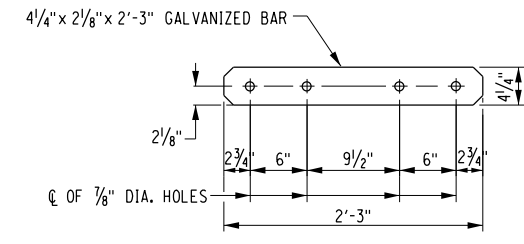


PLAN

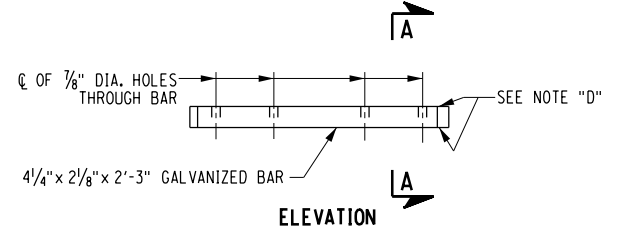


ELEVATION

EXPANSION SPLICE ASSEMBLY

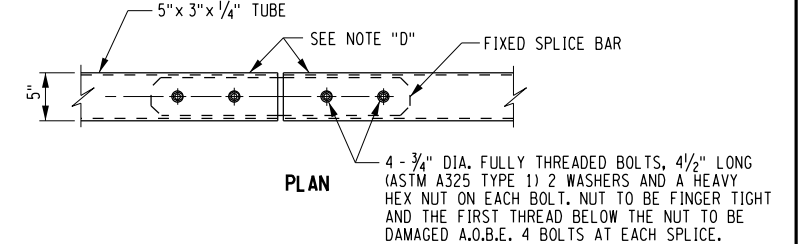


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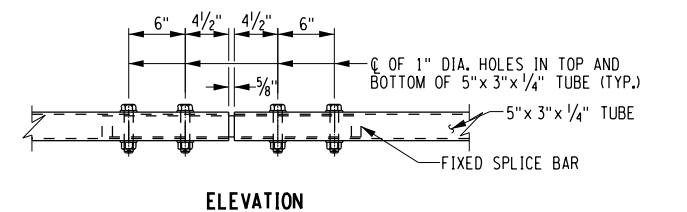


ELEVATION

FIXED SPLICE BAR

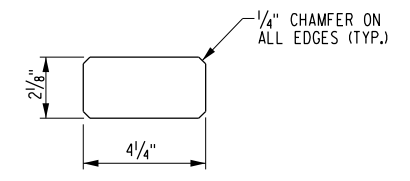


PLAN



ELEVATION

FIXED SPLICE ASSEMBLY



SECTION A-A

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.

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT		BIN 3302040			
	TOWN OF NEWCOMB				TRANSITION RAILING DETAILS	DRAWING NO. ST-25
	COUNTY: ESSEX REGION: 1					SHEET NO. 37 OF 39

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 = 2/15/2019
 USER = KDetrick

DESIGN SUPERVISOR C. TUTUNJIAN JOB MANAGER C. TUTUNJIAN DESIGN L. SHORT DRAFTING K. DETRICK CHECK A. BROWN CHECK A. BROWN PROJECT MANAGER A. BROWN CHECK K. DETRICK CHECK A. BROWN CHECK A. BROWN PROJECT MANAGER C. TUTUNJIAN

610.16010424 - TURF ESTABLISHMENT SEED MIX AS SPECIFIED NOTES:

- TURF ESTABLISHMENT SEED MIX SHALL BE AS INDICATED IN THE CONTRACT DOCUMENTS OR APPROVED EQUIVALENT.
- THE ACCEPTANCE CRITERIA FOR TURF ESTABLISHMENT - SEED MIX AS SPECIFIED SHALL BE:
 9610-3.03 A. TURF ESTABLISHMENT - ROADSIDE
- MULCH FOR TURF ESTABLISHMENT - SEED MIX AS SPECIFIED SHALL BE 713-19 STRAW.

**610.16010424 - TURF ESTABLISHMENT - SEED MIX AS SPECIFIED
ROADSIDE SEED MIX**

COMMON NAME	SCIENTIFIC NAME	RATE (35 LBS/ACRE) %
VIRGINIA WILD RYE	<i>ELYMUS VIRGINICUS</i>	5.00
PANICLEDLEAF TICK TREFOIL	<i>DESMODIUM PANICULATUM</i>	0.56
LITTLE BLUESTEM	<i>SCHIZACHYRIUM SCOPARIUM</i>	11.67
BIG BLUESTEM	<i>ANDROPOGON GERARDII</i>	7.78
CREeping RED FESCUE	<i>FESTUCA RUBRA</i>	23.89
INDIAN GRASS	<i>SORGHASTRUM NUTANS</i>	7.78
SWITCH GRASS	<i>PANICUM VIRGATUM</i>	5.56
STAGHORN SUMAC	<i>RHUS TYPHINA</i>	0.56
EVENING PRIMROSE	<i>OENOTHERA BIENNIS</i>	15.52
BUTTERFLY MILKWEED	<i>ASCLEPIAS TUBEROSA</i>	0.56
BLACK EYED SUSAN	<i>RUDBECKIA HIRTA</i>	13.89
PARTRIDGE PEA	<i>CHAMAECRISTA FASCICULATA</i>	0.56
HOLLOW-STEM JOE PYE WEED	<i>EUPATORIUM FISTULOSUM</i> (<i>EUTROCHIUM FISTULOSUM</i>)	6.67

GUIDE RAIL INSTALLATION TABLE

STATION TO STATION	SIDE	ITEM 568.51 (LF)	ITEM 568.70 (LF) <RADIUS >	ITEM 606.10 (LF)	ITEM 606.100002 (LF)	ITEM 606.120101 (EA)
2+60.63 TO 2+67.67	LT					1
2+67.67 TO 3+04.37	LT				37.0 <170 >	
3+04.37 TO 3+36.37	LT		32.0			
3+36.37 TO 4+63.62	LT	127.25				
4+63.62 TO 4+95.26	LT		32.0			
4+95.26 TO 5+54.98	LT				60.0 <1030 >	
5+54.98 TO 5+62.16	LT					1
2+72.39 TO 2+79.50	RT					1
2+79.50 TO 3+04.37	RT				25.0 <147 >	
3+04.37 TO 3+36.37	RT		32.0			
3+36.37 TO 4+63.62	RT	127.25				
4+63.62 TO 4+78.63	RT		15.0			
4+78.63 TO 4+95.99	RT		17.0 <587 >			
4+95.99 TO 5+01.36	RT				5.25 <587 >	
5+01.36 TO 5+91.36	RT			90.0		1
5+91.36 TO 6+17.91	RT				27.0 <85 >	
6+17.91 TO 6+24.76	RT					1
TOTAL		254.5	128.0	90.0	154.25	4

TABLE OF GUIDE RAIL ITEMS AND DESCRIPTIONS

ITEM	DESCRIPTION	UNITS
568.51	STEEL BRIDGE RAILING (FOUR-RAIL)	LF
568.70	TRANSITION BRIDGE RAILING	LF
606.10	BOX BEAM GUIDE RAILING	LF
606.100002	BOX BEAM GUIDE RAILING (SHOP BENT OF MITERED)	LF
606.120101	BOX BEAM END PIECE	EA

SIGN RELOCATION TABLE

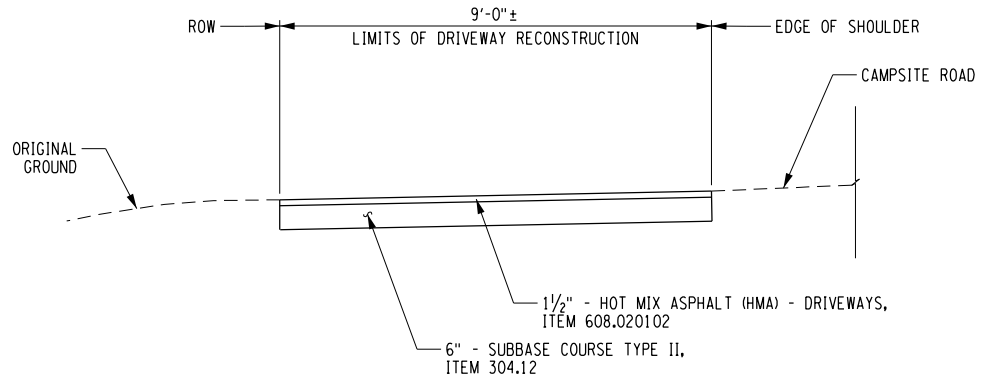
EXISTING LOCATION STATION	NEW LOCATION STATION	OFFSET	SIDE	DESCRIPTION	ITEM 647.31	ITEM 645.81
2+72.93	2+72.93	17.3'	LT	"CURVES AHEAD"	1	1
2+72.93	2+72.93	17.3'	LT	"SPEED AROUND CURVE 30 MPH"	1	1
3+45.07	3+45.07	14.7'	RT	"ARROW FOR CURVE"	1	1
5+68.92	5+68.92	18.1'	LT	"SPEED LIMIT 30"	1	1

SIGN REMOVAL TABLE

STATION	SIDE	DESCRIPTION	ITEM 647.61
2+81.11	RT	"HUDSON RIVER"	1
2+80.75	RT	"SNOWPLOW MARKER"	1

NEW SIGN TABLE

STATION	OFFSET	SIDE	DESCRIPTION	ITEM 645.5202	ITEM 646.22	ITEM 645.81	MUTCD NUMBER	SIZE (IN.) W X H
2+81.11	18.2'	RT	"HUDSON RIVER"	1		1	M1-6	36"X36"
3+36.00	14.5'	LT/RT	"SNOWPLOW MARKER"		2	2	M1-6	36"X36"
4+64.00	14.5'	LT/RT	"SNOWPLOW MARKER"		2	2	M1-6	36"X36"



TYPICAL DRIVEWAY RECONSTRUCTION SECTION

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

AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS:	CAMPSITE ROAD OVER HUDSON RIVER	PIN 1760.68	BRIDGES BIN 3302040	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER
	BRIDGE REPLACEMENT PROJECT					
	TOWN OF NEWCOMB				MISCELLANEOUS TABLES	DRAWING NO. ST-26
	COUNTY: ESSEX REGION: 1					SHEET NO. 38 OF 39

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.

