

A d d e n d u m

Iowa Department of Transportation
Office of Contracts

Date of Letting: April 19, 2016
Date of Addendum: April 14, 2016

B.O.	Proposal ID	Proposal Work Type	County	Project Number	Addendum
013	96-C096-130	BRIDGE REPLACEMENT - CCS	WINNESHIEK	BROS-C096(130)--8J-96	19APR013.A01

Make the following changes to the PROPOSAL SCHEDULE OF PRICES:

Change Proposal Line No. 0200:

From: 2505-4021701 STEEL BEAM GUARDRAIL FLARED END TERMINAL

To: 2505-4021711 STEEL BEAM GUARDRAIL FLARED END TERMINAL, LS-626

If the above changes are not made, they will be made as shown here.

Make the following changes to the plans:

Replace PLAN SHEETS A.01, C.01, C.02 and C.03 with the attached SHEETS A.01, C.01, C.02 and C.03

Add the attached PLAN SHEETS U.01, U.02 and U.03

Summary: Changes are to correct the errors and discrepancies in the original plans with respect to only the guardrail bid items and associated notes.

WINNESHIEK COUNTY BRIDGE REPLACEMENT

BROS-C096(130)--8J-96 BRIDGE #185 Letting Date APRIL 19, 2016

PROJECT TRAFFIC CONTROL PLAN
THIS ROAD WILL BE CLOSED TO THRU TRAFFIC DURING CONSTRUCTION. LOCAL TRAFFIC TO ADJACENT PROPERTIES WILL BE MAINTAINED AS PROVIDED FOR IN ARTICLE 1107.08 OF THE CURRENT SPECIFICATIONS.

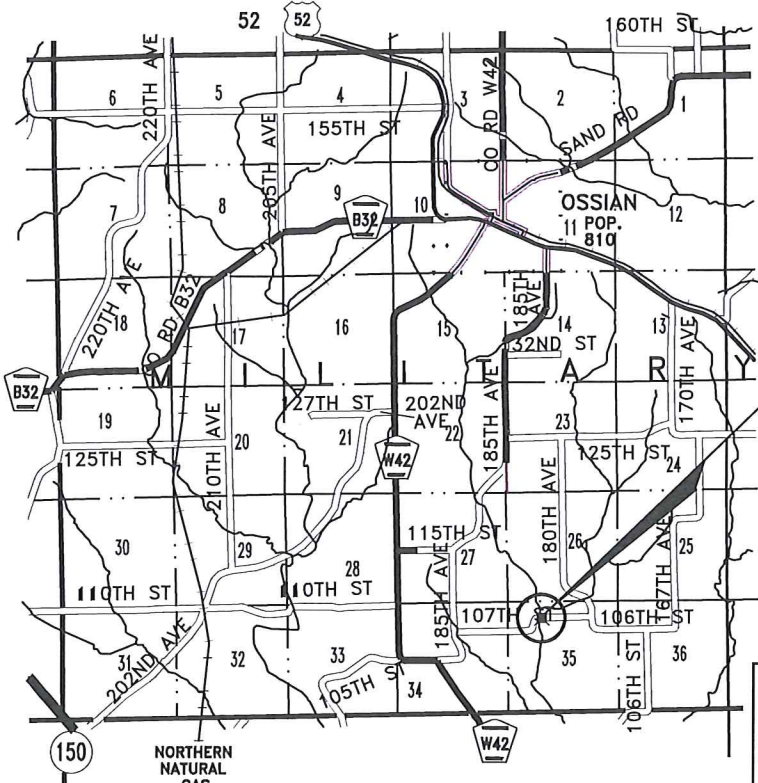
TRAFFIC CONTROL DEVICES, PROCEDURES, LAYOUTS, SIGNING AND PAVEMENT MARKINGS INSTALLED WITHIN THE LIMITS OF THIS PROJECT SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AS ADOPTED BY THE DEPARTMENT PER 761 OF THE IOWA ADMINISTRATIVE CODE (IAC) CHAPTER 130.

WINNESHIEK COUNTY SHALL PROVIDE AND MAINTAIN A MARKED DETOUR ROUTE DURING THE PROJECT.

ARCHAEOLOGICAL NOTE:
IF ARCHAEOLOGICAL MATERIALS ARE ENCOUNTERED DURING THE CONSTRUCTION PHASE OF THIS PROJECT, THE OFFICE OF PROJECT PLANNING AND/OR THE OFFICE OF LOCAL SYSTEMS (I.D.O.T.) MUST BE CONTACTED IMMEDIATELY SO THE PROPER AUTHORITIES CAN BE NOTIFIED ACCORDING TO THE EXISTING FEDERAL REGULATIONS AND STATE PROCEDURES. ADDITIONALLY, IT SHOULD BE NOTED THAT FINDINGS AND RECOMMENDATIONS FOR CLEARANCE FOR FURTHER TESTING CANNOT BE CONSIDERED FINAL UNTIL CONCURRENCE IS RECEIVED FROM THE OFFICE OF STATE HISTORICAL PRESERVATION OFFICER.

OFFICE OF PROJECT PLANNING (515) 239-1225
OFFICE OF LOCAL SYSTEMS (515) 239-1528

SECTION 404 PERMIT AND CONDITIONS
Construct this project according to the requirements of U.S. Army Corps of Engineers Nationwide Permit No. 14. Permit No. CEMVR-OD-P2015-179. A copy of this permit is available from the Iowa DOT website (<http://envpermits.iowadot.gov/CMEPortal/ENV/Home.aspx>). The U.S. Army Corps of Engineers reserves the right to visit the site without prior notice.



MILITARY TWP T-96N R-8W
Location Map
NOT TO SCALE

IOWA
DEPARTMENT OF TRANSPORTATION
Highway Division
PLANS OF PROPOSED IMPROVEMENT ON THE
**SECONDARY ROAD SYSTEM
WINNESHIEK COUNTY
BRIDGE REPLACEMENT-CCS**
BROS-C096(130)--8J-96

Located in the NE 1/4 - NW 1/4 of Section 35-96-8 on 107th St.
2375' West of the Intersection of 180th Ave. and 107th St.

Refer to the Proposal Form for list of applicable specifications.

EMERALD ASH BORER 232-10 Modified
Dispose of all wood material generated as a result of clearing and/or grubbing according to the Iowa Department of Agriculture and Land Stewardship's Emerald Ash Borer (EAB) Quarantine Order. For more information refer to http://www.iowatreepests.com/eab_regulations.html.

B.O.P. Sta. 15+75 E.O.P. Sta. 20+25
Brg #185 FHWA# 346250
90' x 24' Cont. Conc. Slab Bridge
Sta. 18+35 15° Lt. AH Skew

(Last Open Road Count) 2009 AADT 25 V.P.D.
(Closed Road Count) 2013 AADT 15 V.P.D.



UTILITY COMPANIES THAT WERE LISTED ON IOWA ONE CALL 'DESIGN INFORMATION REQUEST' PAGE AS BEING WITHIN OR IMMEDIATELY ADJACENT TO THE PROPOSED LIMITS OF CONSTRUCTION AT THE TIME OF PRELIMINARY PLAN PREPARATION.
(ACE) ACE COMMUNICATIONS GROUP
Lyle Lectenber
Phone: 507-896-6248
E-Mail: lylelectenberg@acegroup.cc
PRIOR TO CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING IOWA ONE CALL.

PROJECT NUMBER	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
BROS-C096(130)--8J-96		A.01	22

INDEX OF SHEETS	
No.	Description
A.01	TITLE SHEET
C.01	ESTIMATED PROJECT QUANTITIES, STD. ROAD & BRG. TABS.
C.02	ESTIMATE REFERENCE INFORMATION
C.03-C.04	TABULATION BLOCKS
D.01	PLAN & PROFILE SHEET (107TH STREET)
G.01	VALLEY SECTION & HYDRAULIC DATA
H.01	TEMPORARY CONSTRUCTION EASEMENT
Q.01-Q.05	BORING LOCATIONS & DATA
U.01-U.03	Modifided BA 201, 202, & 250 Standard Rd. Plan Sheets
V.01	CROSS LONGITUDINAL SECTION & HYDRO DATA
V.02	TOP SLAB ELEVATIONS & LAYOUT LOCATIONS
V.03	WEST PIER FOOTING
W.01-W.03	ROAD CROSS SECTIONS

Note: See Sheet C.01 for List of Applicable Standard Road Plans and English County Bridge Standards Used on this Project and Sheets U.01-U.03 for Modifided BA-201, BA-202, & BA-250 Sheets.

MILEAGE SUMMARY			
Div.	Location	Lin. Ft.	Miles
	Sta. 16+25 B.O.P. - Sta. 17+90 W. Abut.	165	0.031
	90' x 24' Cont. Conc. Slab Bridge	90	0.017
	Sta. 18+80 E. Abut. - Sta. 20+25 E.O.P.	145	0.027
	TOTAL	400	0.075

DNR FLOOD PLAIN DEVELOPMENT PERMIT
NOT REQUIRED FOR THIS PROJECT

'NPDES PERMIT' IS NOT REQUIRED ON THIS PROJECT
AS THE AREA BEING DISTURBED IS LESS THAN ONE ACRE.

ALL WORKING DRAWINGS INCLUDING SHOP DRAWINGS AND FALSE WORK DRAWINGS WILL BE CHECKED BY:
WINNESHIEK COUNTY ENGINEER'S OFFICE (563) 382-2951
201 WEST MAIN
DECORAH, IOWA 52101



I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

Lee J. Bjerke PE Date
My license renewal date is December 31, _____
Pages or sheets covered by this seal:
A.01, C.01-C.04, D.01, G.01, H.01,
Q.01-Q.05, U.01-U.03, V.01-V.03, &
W.01-W.03

Approved Winneshiek County Board of Supervisors

DRAFTED BY: MJS
FIELD BOOK: MILITARY TWP #1 PAGES: 1-6. & 15-16

STANDARD ROAD PLANS					105-4 MODIFIED
The following Standard Road Plans shall be considered applicable to construction work on this project.					
Number	Revision	Date	Rev. No.	Sheets	Title
BA-200	04-19-16		3	1 THR 4	STEEL BEAM GUARDRAIL COMPONENTS
BA-201					See Sheet U.01 of these Plans for Modified BA-201 Sheets 1 through 2.
BA-202					See Sheet U.02 & U.03 of these Plans for Modified BA-202 Sheets 1 through 3.
LS-206	04-19-16		NEW	1 OF 1	STEEL BEAM GUARDRAIL FLARED END TERMINAL (NCHRP 350 TL-3)
BA-250					See Sheet U.03 of these Plans for Modified BA-250 Sheet 1 of 1.
EC-201	04-21-15		1	1 THR 3	SILT FENCE
EC-202	10-21-14		6	1 & 2	FLOATING SILT CURTAIN
EW-202	04-19-16		4	1 THR 3	BRIDGE BERM GRADING WITHOUT RECOVERABLE SLOPE (NON-BARNROOF SECTION)
EW-301	10-20-15		1	1 THR 5	GUARDRAIL GRADING
EW-401	10-20-15		2	1 OF 1	TEMPORARY STREAM CROSSING, CAUSEWAY, OR EQUIPMENT PAD
EW-402	10-20-15		1	1 OF 1	TEMPORARY STREAM DIVERSION
EW-501	10-20-15		1	1 OF 1	RURAL ENTRANCE
MI-101	10-20-15		1	1 OF 1	FENCING LAYOUT
MI-103	10-20-15		2	1 THR 7	DEER FENCE AND FIELD FENCE CONSTRUCTION
MI-104	10-20-15		4	1 OF 1	FENCE CONSTRUCTION AT CHANNEL CROSSINGS, FLOOD PLAINS, AND MINOR GROUND DEPRESSIONS
SI-172	04-19-16		3	1 OF 1	DELINEATORS
SI-173	04-19-16		1	1 & 2	OBJECT MARKERS
SI-211	10-19-10		1	1 THR 3	OBJECT MARKERS AND DELINEATOR PLACEMENT WITH GUARDRAIL
TC-252	04-19-16		6	1 THR 3	ROUTES CLOSED TO TRAFFIC

COUNTY BRIDGE STANDARDS			
The following Bridge Standards shall be considered applicable to construction work on this project.			
Standard	Date Issued	Latest Revision	Title
J24-01-06	NOV 2006	06-13	INDEX AND GENERAL NOTES
J24-06-06	NOV 2006	06-12	SUPERSTRUCTURE DETAILS 90'-0 BRIDGE
J24-07-06	NOV 2006	07-09	SUPERSTRUCTURE DETAILS 90'-0 BRIDGE
J24-20-06	NOV 2006	06-12	SUPERSTRUCTURE DETAILS ALL BRIDGES
J24-21-06	NOV 2006	12-08	SUPERSTRUCTURE DETAILS ALL BRIDGES
J24-23-06	NOV 2006	05-14	MONOLITHIC PIER CAP DETAILS ALL BRIDGES
J24-24-06	NOV 2006	12-08	MONOLITHIC PIER CAP DETAILS ALL BRIDGE
J24-35-06	NOV 2006	06-13	ABUTMENT DETAILS 15° SKEW - STEEL PILING
J24-39-06	NOV 2006	07-09	ABUTMENT DETAILS STEEL PILING
J24-40-06	NOV 2006	12-08	OPEN RAIL DETAILS (TL-4)
J24-41-06	NOV 2006	07-09	OPEN RAIL DETAILS (TL-4)
J24-42-06	NOV 2006	12-08	SUBDRAIN DETAILS
J24-43-06	NOV 2006	09-14	WING ARMORING DETAILS
J24-45-06	DEC 2008	09-14	ABUTMENT BACKFILL DETAILS

BRIDGE STANDARDS / MISCELLANEOUS			
The following Bridge Standards shall be considered applicable to construction work on this project.			
Standard	Date Issued	Latest Revision	Title
P10L	JAN 2009	11-15	LRFD TRESTLE PILE BENTS - P10L

ESTIMATED PROJECT QUANTITIES										
NO.	ITEM CODE	ITEM	UNIT	WEST ABUT.	WEST PIER	EAST PIER	EAST ABUT.	SUPER	TOTAL	AS-BUILT
1	2101-0850001	CLEARING AND GRUBBING	ACRE						0.5	
2	2102-2625000	EMBANKMENT-IN-PLACE	C.Y.						786	
3	2102-2713070	EXCAVATION, CLASS 13, ROADWAY AND BORROW	C.Y.						185	
4	2104-2710020	EXCAVATION, CLASS 10, CHANNEL	C.Y.	33			33		66	
5	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	C.Y.						120	
6	2312-8260051	GRANULAR SURF. ON ROAD, CLASS A CRUSHED STONE	TON						294	
7	2315-8275025	SURFACING, DRIVEWAY, CLASS A CRUSHED STONE	TON						120	
8	2401-6745625	REMOVAL OF EXISTING BRIDGE	L.S.						1	
9	2402-2720000	EXCAVATION, CLASS 20	C.Y.	87			88		175	
10	2402-2721000	EXCAVATION, CLASS 21	C.Y.		268	19			287	
11	2402-2722000	EXCAVATION, CLASS 22	C.Y.		13				13	
12	2403-0100010	STRUCTURAL CONCRETE (BRIDGE)	C.Y.	9.4			9.4	145.5	164.3	
13	2404-7775005	REINFORCING STEEL, EPOXY COATED	LB.	1,367			1,367	40,910	43,644	
14	2414-6424124	CONCRETE OPEN RAIL, TL-4	L.F.					202.2	202.2	
15	2417-1040018	CULVERT, CORR METAL ENTRANCE PIPE, 18 IN DIA.	L.F.						36	
16	2501-0201042	PILES, STEEL, HP 10x42	L.F.	125	175	280	150		730	
17	2501-5478042	CONC. ENCASE STEEL H PILE, HP 10X42 (P10L TYPE 3)	L.F.		128.8	98.0			226.8	
18	2505-4008400	STEEL BEAM GUARDRAIL BARRIER TRANSITION SECTION	EACH						4	
19	2505-4021010	STEEL BEAM GUARDRAIL END ANCHOR, BOLTED	EACH						4	
20	2505-4021711	STEEL BEAM GUARDRAIL FLARED END TERMINAL, LS-626	EACH						4	
21	2507-3250005	ENGINEERING FABRIC	S.Y.	325			350		675	
22	2507-6800061	REVTMENT, CLASS E	TON	333			377		710	
23	2518-6910000	SAFETY CLOSURES	EACH						4	
24	2519-3280000	FENCE, FIELD	L.F.						464	
25	2519-3300400	FIELD FENCE BRACE PANELS	EACH						22	
26	2519-3750012	GATE, FIELD FENCE, 12 FT.	EACH						6	
27	2528-8445110	TRAFFIC CONTROL	L.S.						1	
28	2533-4980005	MOBILIZATION	L.S.						1	
29	2601-2634100	MULCHING	ACRE						0.5	
30	2601-2636043	SEEDING & FERTILIZING (RURAL)	ACRE						0.5	
31	2602-0000020	SILT FENCE	L.F.						290	
32	2602-0000030	SILT FENCE, DITCH CHECKS	L.F.						28	
33	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH						1	
34										

BRIDGE #185

Scrape samples from numerous locations of this bridge were taken to get an indication of the existence of and level of total chromium and total lead. The analysis of total chromium in this sample was 176 mg/Kg. The analysis of total lead in this sample was 313000 mg/Kg. The analysis shows the existence of these two toxic constituents. The levels indicated by this test could create conditions above regulatory limits for health and safety requirements. No other substances were analyzed. The bidder should not rely on the Contracting Authority's testing and analysis for any purpose other than an indication of the existence of these two toxic constituents.

ESTIMATED PROJECT QUANTITIES, STANDARD ROAD & BRIDGE TABS FOR 90' x 24' Cont. Conc. Slab Bridge	
15° LT. AH. SKEW	STA. 18+35
FHWA #346250	

ESTIMATE REFERENCE INFORMATION			100-4A 10-29-02
Item No.	Item Code		
01	2101-0850001	Any trees and brushed cleared may be burned then buried in the ditches, after local home owners are notified and approve. Field fences shall be remove and disposed of by Landowner. See Sheet C.04 Fence Removal Tab.	
02	2102-2625000	Price bid for Embankment-in-Place shall be full compensation for providing, hauling, placing, and compacting all material. All embankment-in-place material shall be approved by the engineer prior to placement. This embankment-in-place is intended as a covering over the class 10, 20, 21, & 22 excavations material that could be used in widening the foreslopes along the road to allow for vegetation growth and to widen for the guardrail blisters. An additional 93 CY is figured for a cattle path near the East Pier. Figured by cross section of 38 sq.ft. by 66 feet long at 27cf/cy for 93 C.Y. See Sheet D.01 for cut\fill quantities.	
03	2104-2710020	For Excavation Class 13, Roadway and Borrow See Sheet C.03 for Tabulation 107-29 and See Sheets W.01-W.03 for Cross Sections. An Estimated Cut of 185 C.Y. from Cross Sections.	
04	2105-8425015	Class 10, Channel Excavation is intended for creating the trench needed to place the Engineering Fabric and Class 'E' Rip-Rap along the North side of the bridge berms and along the banks of the Nutting Creek. The West side was figured at 100 feet long by 3 feet wide by 3 feet deep for 33 C.Y. and the East side was figured at 100 feet long by 3 feet wide by 3 feet deep for 33 C.Y.. The Total Class 10 Excavation is 66 C.Y.	
05	2125-2225050	Quantity for Topsoil, Strip, Salvage and Spread was figured at 325 feet long by avg. 20 feet wide by .5 feet deep for 120 C.Y.	
06	2312-8260051	Price bid shall be full compensation for furnishing, placing and compacting all granular road surfacing. Surface shall be Class 'A' Crushed Stone and figured at 5 inches deep by 28 feet wide and 360 feet long at 140 lbs\cf for 294 tons.	
07	2315-8275025	Surface, Driveway, Class 'A' Crushed Stone is to be placed on Field Driveways at Station 16+85 Lt. & Rt. and Field Driveways @ Station 20+05 Lt. & Rt. An Estimate of Two Loads on Each Driveway of 15 ton\load = 30 tons. A Total of 120 tons. Bid price shall be full compensation for furnishing, placing, and compacting.	
08	2401-6745625	Contractor shall Remove Existing Bridge with the I-Beams remaining property of Winneshiek County. Contractor may Stock Pile the Beams on Site or have County Trucks on Site for Immediate Removal from the Site. Concrete sized smaller than 12" may be incorporated in the slopes and fill areas. Concrete sized larger than 12" shall not be placed within 4 feet of the new structure. All concrete shall have protruding reinforcing rebars removed. Contractor may wish to remove PCC from site. Price bid for this item shall be full compensation for removal, salvaging, and loading. Care shall be taken in removal of deck to assure minimal damage to the beams.	
09	2402-2720000	Material includes all excavation required for the construction of the abutments, piers, and bridge berms. All excess suitable excavated material shall be incorporated into the roadway foreslopes at the guardrail installations.	
10 & 11	2402-2721000	Material includes excavation required for construction at piers. All suitable material shall be incorporated into adjacent berms.	
12	2403-0100010	All Structural Concrete shall be Class 'C'. Contractor shall provide certified plant inspection for this item. Price bid for structural concrete includes furnishing and placing required concrete sealer, wing armoring all corners, subdrains, geotextile fabric, porous backfill, and floodable backfill.	
13	2404-7775005	All Reinforcing Steel shall be epoxy coated grade 60.	
14	2414-6424124	A Concrete Open Rail shall be Class 'C'. Contractor shall provide certified plant inspection.	

ESTIMATE REFERENCE INFORMATION			100-4A 10-29-02
Item No.	Item Code		
15	2418-0000010	Price bid shall be full compensation for removing the existing cmp then furnishing and placing new 18"Ø CMP x 36' of entrance culvert at Station 16+85 Lt. Entrance culvert shall be round riveted corrugated metal pipe with 14 gauge minimum. All pipe shall meet the requirements for I.D.O.T. certification. Bands shall have a minimum length of 24" and be included in the price bid for these items. See sheet C.04 for entrance culvert tabulation block and sheet D.01 graphical view.	
16	2501-0201042	Furnish bid price shall be paid for all piling. All piling shall have steel driving points. Winneshiek County shall retain ownership of pile cutoffs. Cutoffs shall be loaded onto county trucks at the contractors convenience. See breakdown of required pile lengths and bearings on sheet V.01.	
17	2501-5478042	Piling encasements shall be type 3 with round encasement. Contractor shall provide certified plant inspection for this item. Price bid shall be full compensation for necessary excavation and furnishing and placing all material.	
18-20	2505-4008400 2505-4021010 2505-4021701	Approach guardrail shall be installed on all four corners of the structure. See tabulation 108-8A on Sheet C.03 for required guardrail installation locations and items. See Sheet D.01 for graphical layout of guardrail installations and Sheets U.01-U.03 for Modified BA-201, BA-202, and BA-250 Standard Road Plans.	
21	2507-3250005	Engineering fabric shall be placed under all areas that receive revetment.	
22	2507-6800061	Class "E" Revetment limits shall be 33 feet on Left side of centerline and 33 feet on the Right side and placed at a maximum depth of 3' over engineering fabric. See Sheets D.01 and V.01 for revetment locations and limits. Price bid shall be full compensation for furnishing and placing all revetment.	
23 & 27	2518-6910000 2528-8445110	Winneshiek County currently has temporary signage along the closed road that will be removed upon start of construction. Contractor shall notify Winneshiek County Engineer's Office when their signage is to be put in to place so the County can remove the Temporary signs at that time. Standard Road Plan TC-252 using Situation 1 (Rural) shall apply. See sheet C.04 for tabulation of safety closures. Winneshiek County shall provide and maintain a marked detour route during the project.	
24-26	2519-3280000 2519-3300400 2519-3750020	Field Fences shall be Installed near and along the Right-of-Way Lines. Brace Panels shall be Installed at Existing Fence Intercept locations. Two - 12' Cattle Gates shall be installed at existing field driveways near Sta. 16+85 Rt. & Station 20+05 Lt. & Rt. with Brace Panels at existing fence. See Sheet C.03 for Complete Fence Installation Tabulations.	
29 & 30	2601-2634100 2601-2636043	Seeding, fertilizing and mulching shall be from approximately Sta. 15+75 to Sta. 20+00. From Right-of-Way Line to Shoulder of Roadway on both sides of 107th Street. Standard rural mix shall be used.	
31	2602-0000020	See tabulation 100-17 on Sheet C.04.	
32	2602-0000030	See tabulation 100-18 on Sheet C.04.	

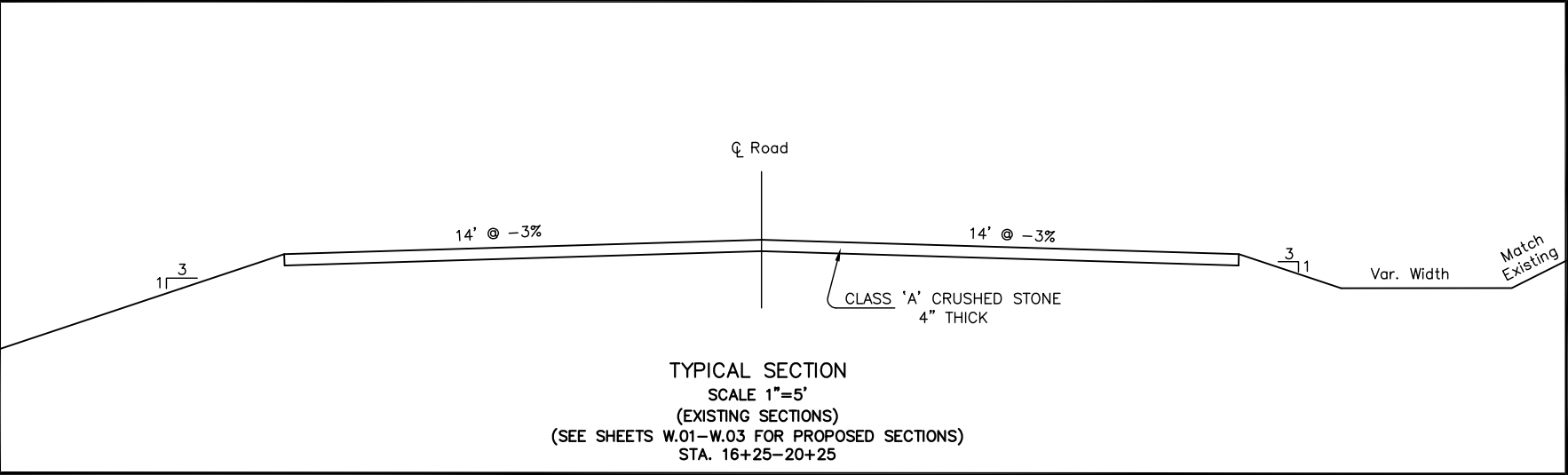
GENERAL NOTES:

1. Refer to the proposal form for List of applicable specifications.
2. Berms shall be constructed to an elevation two feet above top of berm elevation (minimum).
3. Bridge contractor shall excavate berms to plan elevation prior to pile driving and construction of the abutment footings.
4. The contractor shall notify all utility companies of the construction starting date whose facilities are known to be within the construction limits. The contractor shall be responsible for contacting Iowa One Call.
5. Winneshiek County shall provide all necessary construction stakes and reference points to ensure correct vertical and horizontal alignment required to construct the bridges. 48 Hours shall be required to ensure prompt staking of project.

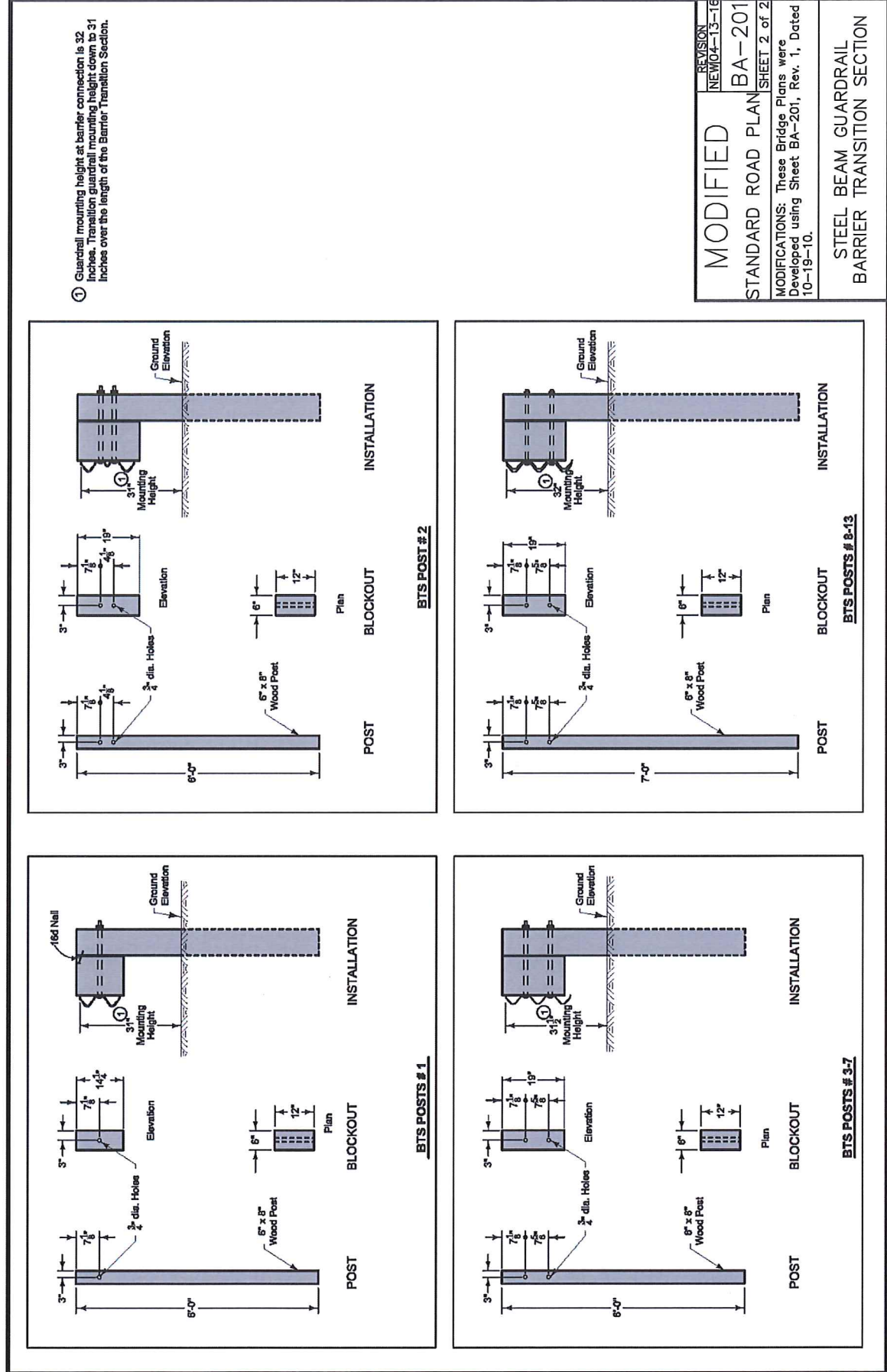
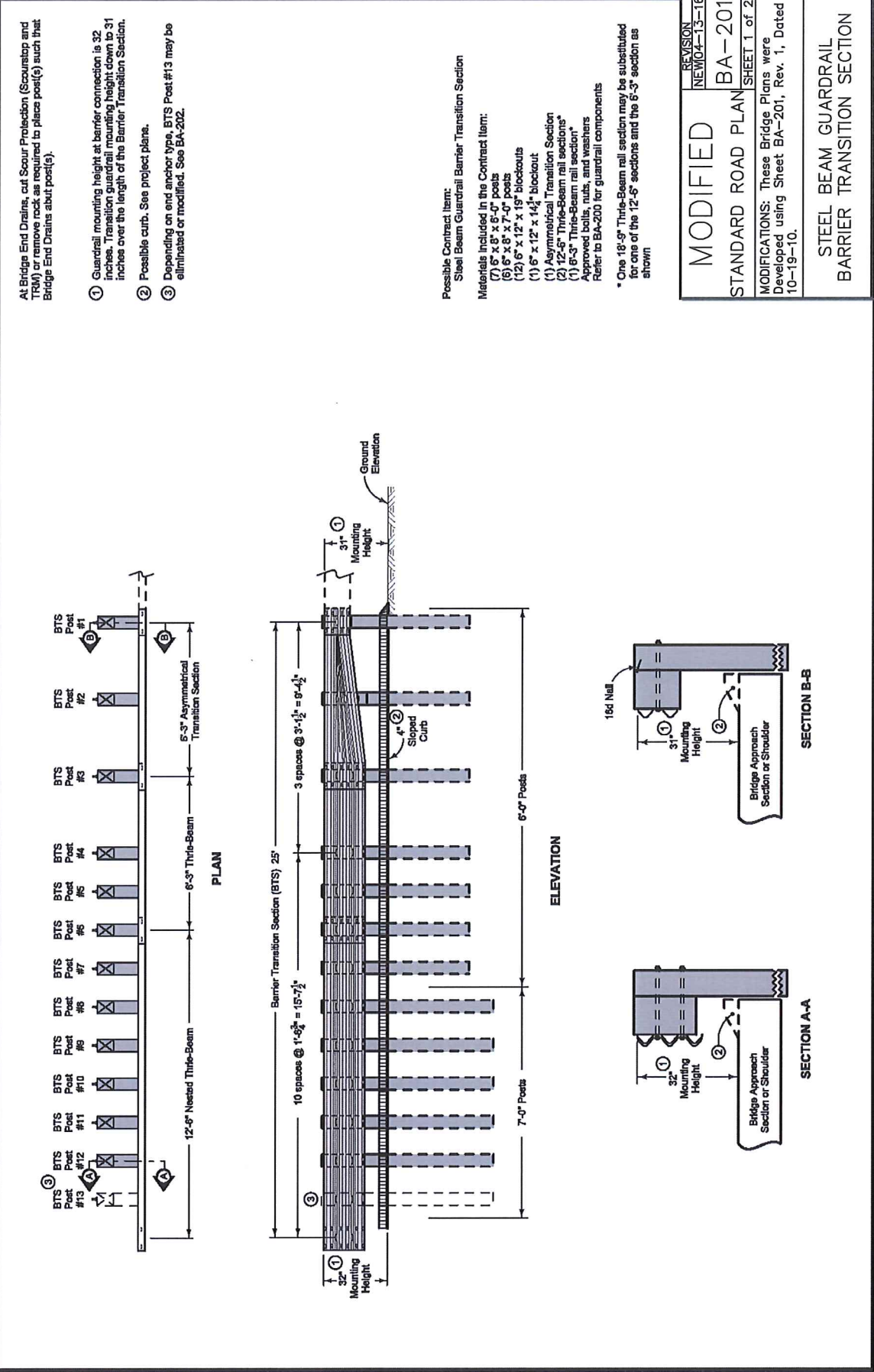
FENCING												100-7
* Bid Item												MODIFIED
Refer to MI-101, MI-102, MI-103, MI-104, 510-3, and 510-5												
	Location				Side	Field				Channel Crossing		Remarks
	From		To			Fence Length*	Brace Panels*	Gate		Length* LF	Type**	
Description	Station	Offset	Station	Offset				No.*	Type			
START FENCE #1	15+84	33'	16+70	33'	RT.	71	3	2			Intercept Existing Fence and Install Two Brace Panels at 12' Cattle Gates.	
START FENCE #2	16+90	33'	16+86.5	33'/14'	RT.	98	4				One Brace Panel at 20' Cattle Gate,Two Brace Panels at Sta. 16+86.5 Corner, & One Brace Panel at Bridge Wing.	
START FENCE #3	17+80	33'	17+93	14'	LT.	25	3				Intercept Existing Fence and Install Two Brace Panels, and One Brace Panel at Bridge Wing.	
START FENCE #4	18+83	14'/33'	19+95	33'	LT.	130	6	2			One Brace Panel at Bridge Wing, Two Brace Panels at Sta. 18+83 @ 33' Lt., and Three Brace Panels at the 12' Cattle Gates.	
START FENCE #5	18+77	14'/33'	19+98	33'	RT.	140	6	2			One Brace Panel at Bridge Wing, Two Brace Panels at Sta. 18+77 @ 33' Rt., and Three Brace Panels at the 12' Cattle Gates.	
			ALL FENCES	TOTALS		464	22	6			Note: On Fences 4 & 5, One Brace Panel on the West Side of Field Drive. & Two Brace Panels on the East Side to Intercept the Existing Fence.	

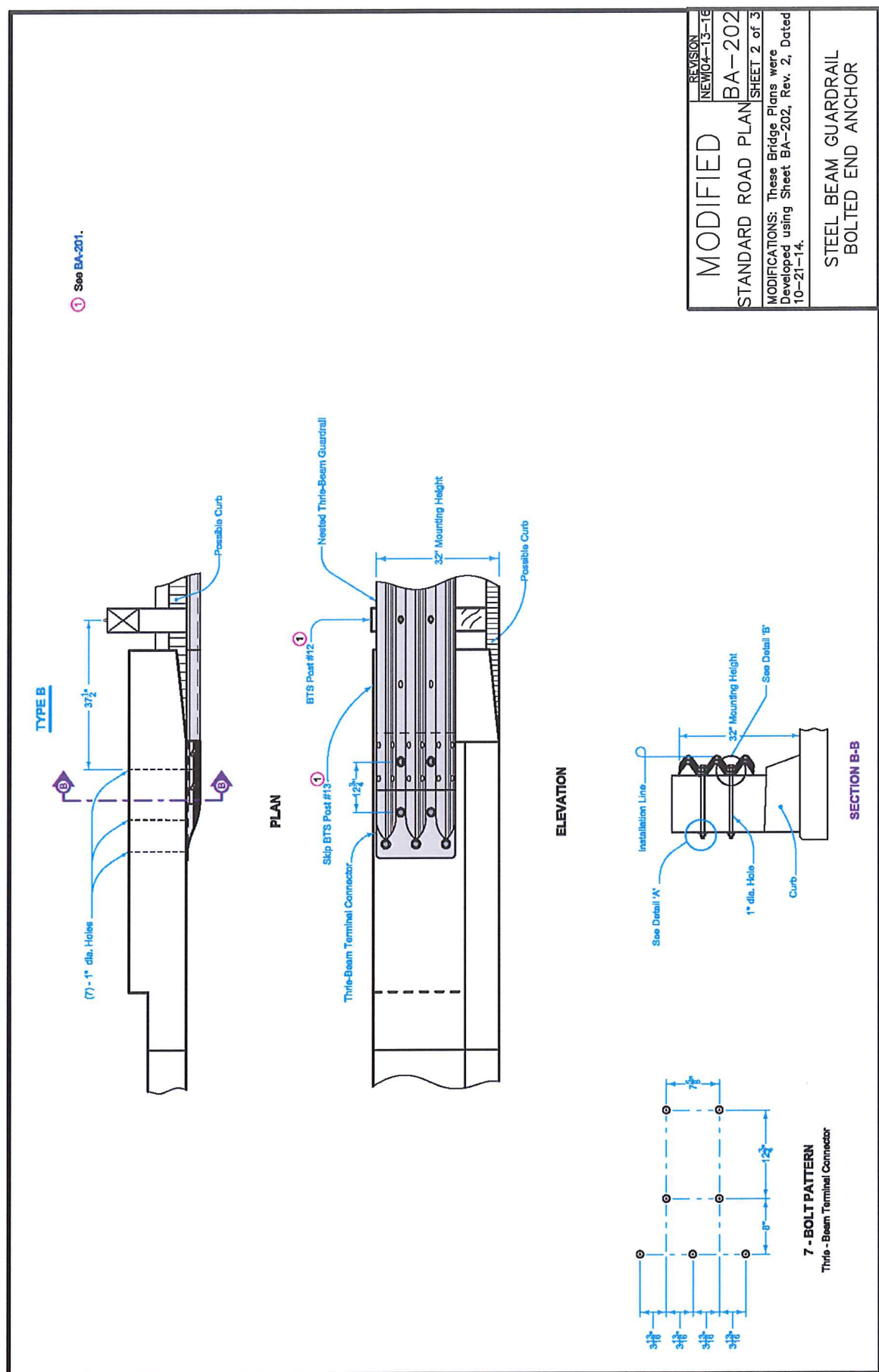
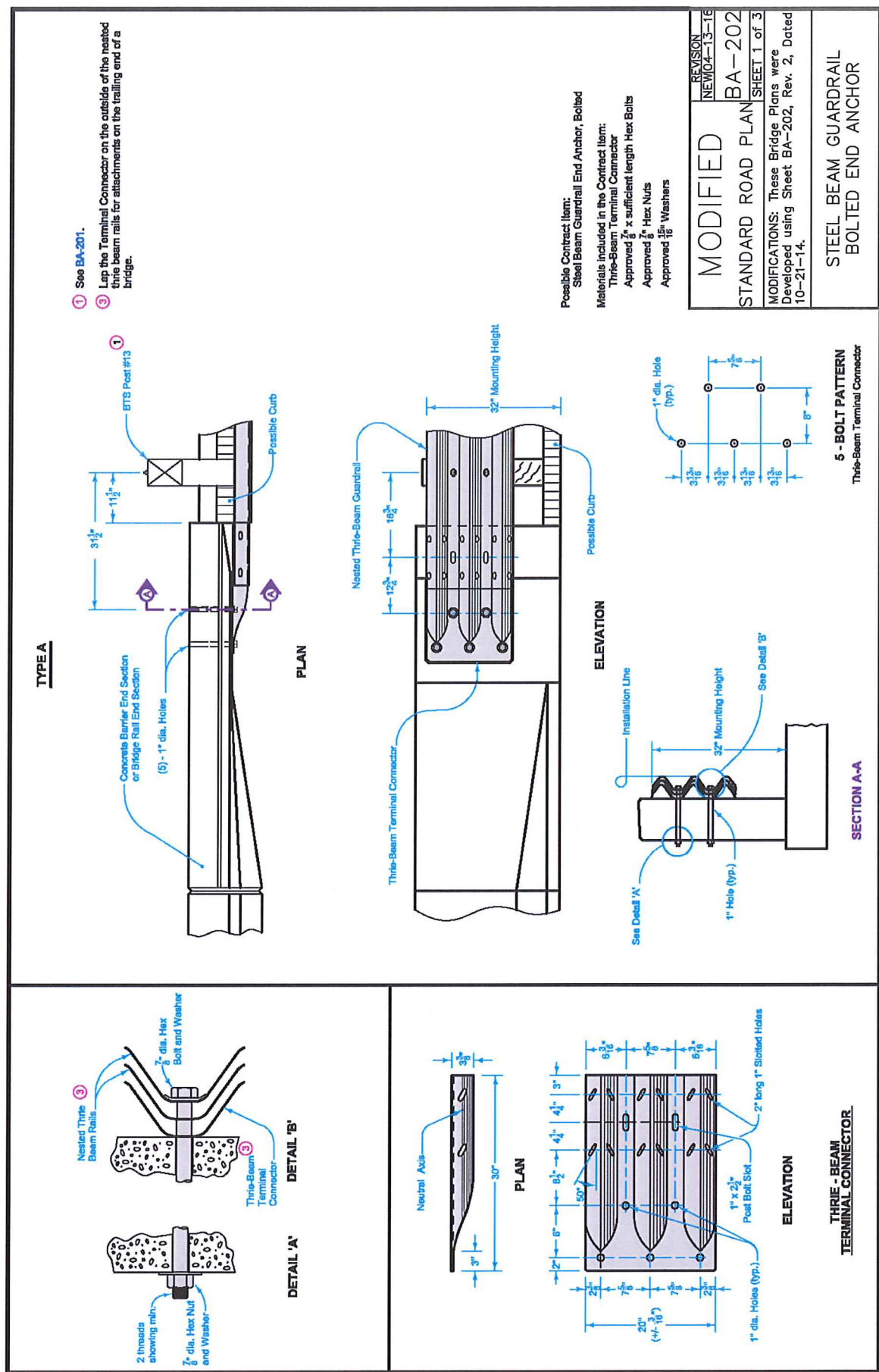
STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE END POST																	108-8A	
Refer to BA-200, MODIFIED BA-201, MODIFIED BA-202, BA-205, MODIFIED BA-250, LS-626, SI-172, SI-173, and SI-211.																	MODIFIED	
Location Station			Layout Lengths				Delineators and Object Markers					Bid Items ①						Remarks
			VT1	VF	VT2	ET	Type SI-211	Delineator		Object Marker		End Anchor Bolted MODIFIED BA-202 Type	Barrier Transition Section MODIFIED BA-201 No.	Steel Beam Guardrail BA-200 LF	End Terminal		Adapter BA-210 No.	
								Type 1	Type 2	Type 3					W-Beam End Anchor BA-205 No.	Flared for Cable Connection LS-626 No.		
										OM-3L	OM-3R							
No.	Station	Offset	MODIFIED BA-250 LF	LF	LF	LS-626 LF		White No.	No.	No.	No.				No.	No.	No.	
1	17+87.3	Lt.	28.125	—	—	37.5	2	—	2	1	—	A	1	—	—	1	—	NW Quad.
2	17+81.5	Rt.	28.125	—	—	37.5	2	—	2	—	1	A	1	—	—	1	—	SW Quad.
3	18+87.4	Lt.	28.125	—	—	37.5	2	—	2	1	—	A	1	—	—	1	—	NE Quad.
4	18+82.7	Rt.	28.125	—	—	37.5	2	—	2	—	1	A	1	—	—	1	—	SE Quad.

TABULATION OF TEMPLATE QUANTITIES AND ADJUSTMENTS											107-29
											Modified
STATION	CLASS 13 FILL	CL. 13 FILL +35% SHRINK	CLASS 13 CUT		DIFFERENCE IN FILL	DIFFERENCE IN CUT	RUNNING FILL	RUNNING CUT	EMBANKMENT IN PLACE	EMBANKMENT FOR CATTLE PATH	TATOL EMBANKMENT
16+75	24	32	-		32	-	32	-	-		
16+85	72	97	-		97	-	130	-	-		
16+90	21	28	-		28	-	158	-	-		
17+00	25	34	-		34	-	192	-	-		
17+25	97	131	-		131	-	323	-	-		
17+50	100	135	-		135	-	458	-	-		
17+60	36	49	-		49	-	506	-	-		
17+75	53	72	-		72	-	578	-	-		
17+81	22	30	-		30	-	608	-	-		
17+90	31	42	1		41	-	648	-	-		
18+80	0	0	87		87	-	87	416	-		
BRIDGE	0	0	88		88	-	88	-	-	93	
BRIDGE	88	119	8		111	-	23	-	-		
19+00	30	41	1		40	-	62	-	-		
19+10	17	23	-		23	-	85	-	-		
19+16	26	35	-		35	-	120	-	-		
19+25	73	99	-		99	-	219	-	-		
19+50	65	88	-		88	-	307	-	-		
19+75	29	39	-		39	-	346	-	-		
20+00	1	1	-		1	-	347	-	277		
20+10											
TOTALS	810	1094	185		1084	175			693	93	786

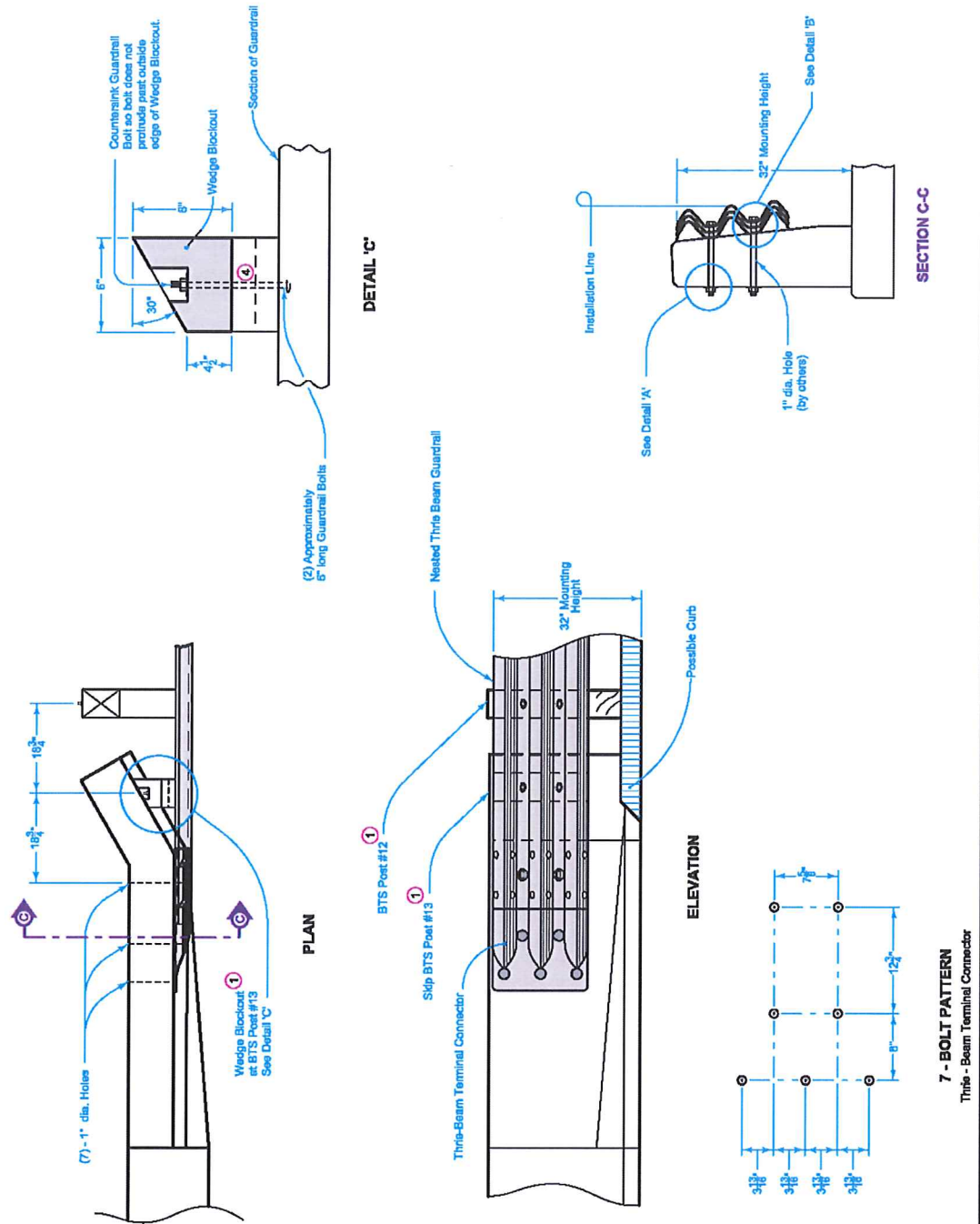
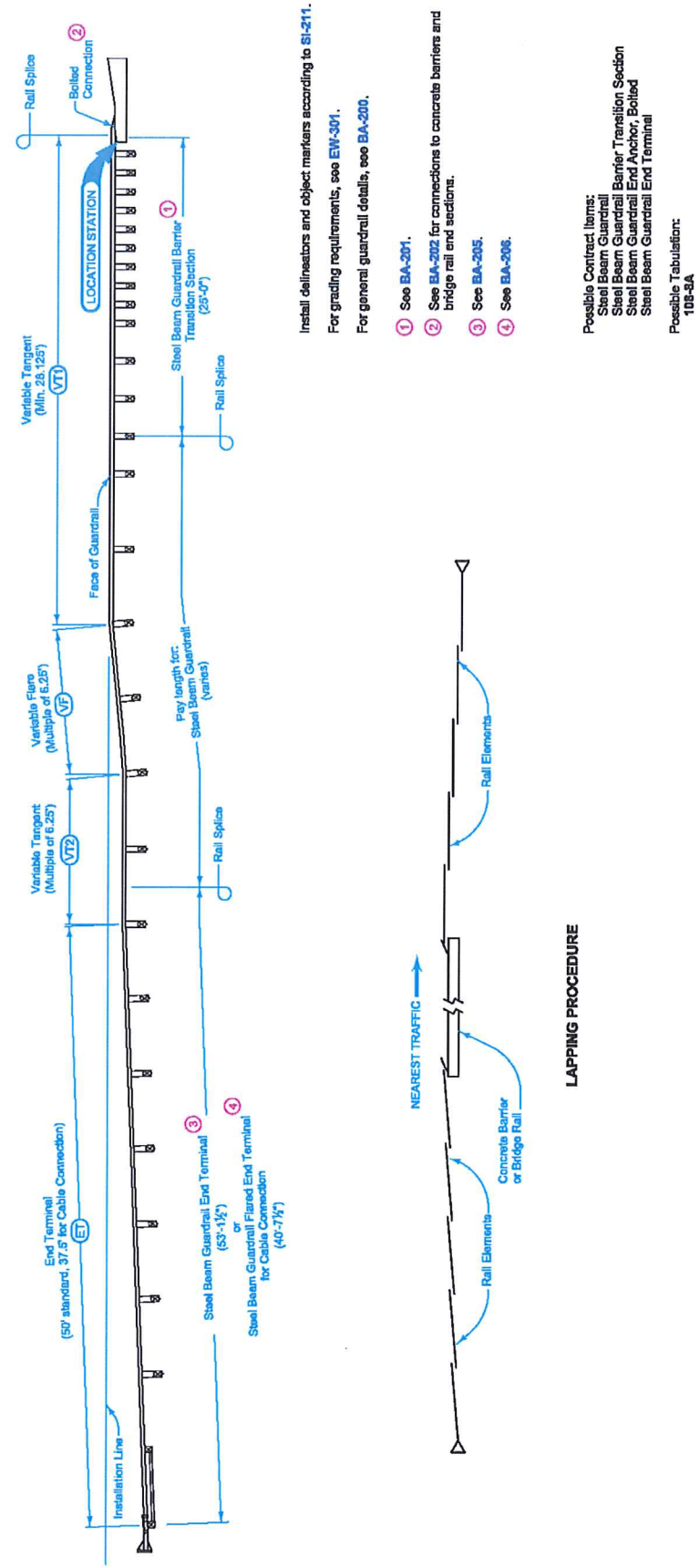


TABULATION BLOCKS	
FOR	
90' x 24' Cont. Conc. Slab Bridge	
15' LT. AH. SKEW	STA. 18+35
FHWA #346250	





TYPE C

**INFO**

MODIFIED	REVISION NEW 10-13-16
STANDARD ROAD PLAN	BA-250 SHEET 1 of 1
MODIFICATIONS: These Bridge Plans were Developed using Sheet BA-250, Rev. 3, Dated 10-21-14.	
STEEL BEAM GUARDRAIL INSTALLATION AT CONCRETE BARRIER OR BRIDGE RAIL END SECTION	