



North Dakota Department of Transportation

Grant Levi, P.E.
Director

Jack Dalrymple
Governor

May 5, 2016

ADDENDUM 1 – JOB 24

TO: All prospective bidders on project NHU-4-083(128)197, Job No. 24 scheduled for the May 13, 2016 bid opening.

The following plan and request for proposal revisions shall be made:

Plan Revisions:

See attached summary from Dan N. Green, PE; Bartlett & West, dated May 5, 2016 for an explanation.

Request for Proposal Revisions:

Remove and replace pages 1 thru 11 with pages 1 thru 12 of the Proposal pages located at the beginning of the Request for Proposal, with the enclosed page revised 5/5/2016.

Page 1-6 of 12:

Page number revised due to added page.

Page 7 of 12:

Item 202 0114 REMOVAL OF CONCRETE PAVEMENT; quantity increased from 73.4 to 86 SY.

Item 202 0130 REMOVAL OF CURB & GUTTER; quantity increased from 28 to 48 LF.

Item 203 0218 GUARDRAIL EMBANKMENT; 2 EA was added.

Item 302 0100 SALVAGED BASE COURSE; 38 TON was added.

Item 430 0045 SUPERPAVE FAA 45; quantity increased from 3245 to 3258 TON.

Item 430 6428 PG 64-28 ASPHALT CEMENT; quantity increased from 189 to 190 TON.

Page 8 of 12:

Items shifted due to added items.

Page 9 of 12:

Item 748 0141 CURB & GUTTER – TYPE I SPECIAL; 20 LF was added.

Item 764 0131 W-BEAM GUARDRAIL; 91 LF was added.

Item 764 0145 W-BEAM GUARDRAIL END TERMINAL; 2 EA was added.

Item 764 0151 REMOVE W-BEAM GUARDRAIL & POSTS; 79 LF was added.

Page 10 of 12:

Item 764 2081 REMOVE END TREATMENT & TRANSITION; 2 EA was added.

Addendum 1
Job 24, May 13, 2016 Bid Opening
Page 2 of 2

Page 11-12 of 12:

Page number revised due to added page.

This addendum is to be incorporated into the bidder's proposal for this project.

Expedite bid files should be updated by downloading the addendum file from the Bid Express on-line bidding exchange at <http://www.bidx.com/> or the Department's web page (<http://www.dot.nd.gov>) and load it into the Expedite program.



Fol CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER

80:plm

Enclosure

May 5, 2016

ADDENDUM 1 – JOB 24

TO: All prospective bidders and suppliers on Projects NHU-4-083(128)197 Job 24 scheduled for the May 13th, 2016 bid opening.

The following plan revisions shall be made:

Plan revisions for NHU-4-083(128)197

REMOVE the following Plan Sheets and REPLACE with the enclosed sheets revised 5/2/2016 or 5/3/2016.

- Section 2 Sheet 1
- Section 6 Sheet 1
- Section 8 Sheet 1
- Section 10 Sheet 1

ADD the following Plan Sheets with the enclosed sheets added 5/2/2016.

- Section 20 Sheet 3
- Section 130 Sheet 1, 2 & 3
- Standard Drawings D-764-1, D-764-5, D-764-10 & D-764-22

Section 2

Sheet 1:

- Added sheets Section 20 Sheet 3, Section 130 Sheets 1, 2 & 3, Standard Drawings D-764-1, D-764-5, D-764-10, D-764-22

Section 6

Sheet 1:

- Added Plan Notes 203-P01, 203-P02, 748-P01, and 764-P01.

Section 8

Sheet 1:

- Revised Quantities:

<u>SPEC</u>	<u>CODE</u>	<u>ITEM DESCRIPTION</u>	<u>REVISION</u>
202	0114	REMOVAL OF CONCRETE PAVEMENT	Revised Quantity from 73.4 SY to 86 SY
202	0130	REMOVAL OF CURB & GUTTER	Revised Quantity from 28 LF to 48 LF
430	0045	SUPERPAVE FAA 45	Revised Quantity from 3,245 TON to 3,258 TON
430	6428	PG 64-28 ASPHALT CEMENT	Revised Quantity from 189 TON to 190 TON

- Added Bid Items:

<u>SPEC</u>	<u>CODE</u>	<u>ITEM DESCRIPTION</u>	<u>UNIT</u>	<u>QUANTITY</u>
203	0218	GUARDRAIL EMBANKMENT	EA	2
302	0100	SALVAGED BASE COURSE	TON	38
748	0141	CURB & GUTTER-TYPE 1 SPECIAL	LF	20
764	0131	W-BEAM GUARDRAIL	LF	91
764	0145	W-BEAM GUARDRAIL END TERMINAL	EA	2
764	0151	REMOVE W-BEAM GUARDRAIL & POSTS	LF	79
764	2081	REMOVE END TREATMENT & TRANSITION	EA	2

Section 10

Sheet 1:

- Added Guardrail Locations Table

Section 20

Sheet 3:

- Added sheet for Curb & Gutter Detail

Section 130

Sheet 1:

- Added sheet for Guardrail Layout at Bridge Ends

Section 130

Sheet 2:

- Added sheet for Guardrail Layout at Bridge Ends

Section 130

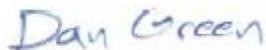
Sheet 3:

- Added sheet for Guardrail Quantities

This addendum is to be incorporated into the bidder's proposal for this project.

Sincerely,

Bartlett & West



Dan N. Green, PE

Enclosures: Revised Plan Sheets Project: NHU-4-083(128)197

Project: NHU-4-083(128)197 (PCN-20600)

The company, firm, corporation, or individual hereby acknowledges that it has designated a responsible person or persons as having the authority to obligate the company, firm, or individual, through electronic or paper submittal, to the terms and conditions described herein and in the contract documents. The designated responsible person submitting this proposal shall be hereafter known as the bidder. By submitting this proposal, the bidder fully accepts and agrees to all the provisions of the proposal. The bidder also certifies that the information given in this proposal is true and the certifications made in this proposal are correct.

The bidder acknowledges that they have thoroughly examined the plans, proposal form, specifications, supplemental specifications, special provisions and agrees that they constitute essential parts of this proposal.

The bidder acknowledges that all line items which contain a quantity shall have a unit price bid. Any line item which is bid lump sum shall contain a lump sum bid price.

The bidder acknowledges that they understand that the quantities of work required by the plans and specifications are approximate only and are subject to increases and decreases; the bidder understands that all quantities of work actually required must be performed and that payment therefore shall be at the prices stipulated herein; that the bidder proposes to timely furnish the specified materials in the quantities required and to furnish the machinery, equipment, labor and expertise necessary to competently complete the proposed work in the time specified.

NON-COLLUSION AND DEBARMENT CERTIFICATION

The bidder certifies that neither he/she, nor any official, agent or employee of the bidder has entered into any agreement, participated in any collusion, or otherwise taken any action which is in restraint of free competitive bidding in connection with this bid.

By submitting this proposal, the bidder certifies to the best of his/her knowledge and belief that he/she and his/her principles:

- a. Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal Department or agency;
- b. Have not within a three-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or perform a public (Federal, State or Local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records; making false statements; or receiving stolen property

Project: NHU-4-083(128)197 (PCN-20600)

- c. Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or Local) with commission of any of the offenses enumerated in paragraph b. of the certification; and
- d. Have not within a three-year period preceding this proposal had one or more public transactions (Federal, State or Local) terminated for cause or default

Where the prospective bidder is unable to certify to any of the statements in this certification, the bidder shall submit an explanation in the blanks provided herein. The explanation will not necessarily result in denial of participation in a contract:

Explanation: _____

If the prequalified bidder's status changes, he/she shall immediately submit a new fully executed non-collusion affidavit and debarment certification with an explanation of the change to the Contract Office prior to submitting the bid.

Failure to furnish a certification or an explanation will be grounds for rejection of a bid.

BID LIMITATION (Optional)

The bidder who desires to bid on more than one project on which bids are to be opened on the same date, and who also desires to avoid receiving an award of more projects than the bidder is equipped to handle, may bid on multiple projects and limit the total amount of work awarded to the bidder on selected projects by completing the "Bid Limitation".

The Bid Limitation must be filled in on each proposal form for which the Bidder desires protection. Each such proposal must be covered by a proposal guaranty.

The bid limitation can be made by declaring the total dollar value of work OR total number of projects a bidder is willing to perform.

The Bidder desires to disqualify all of his/her bids on this bid opening that exceed a total dollar value of \$ _____

OR

that exceed a total number of _____ projects.

The Bidder hereby authorizes the Department to determine which bids shall be disqualified.

Project: NHU-4-083(128)197 (PCN-20600)

PERMISSIBLE DISCOUNT (optional)

Only when invited to do so in the Request for Proposal by Special Provision, Bidders are permitted to offer a discount on a specific project (discount project) if they are awarded the contract on one or more additional projects bid at the same bid opening time and date. The bidder must present the proposal so that it can be considered with or without the discount. The bid or discount offered on the "discount project" will not affect the determination of the low bid of any other project.

When discounts are offered, they must be presented as a reduction in the unit price for one or more items of work in the specified proposal (discount project).

Space for Offering Discounts:

Item No: _____

Description: _____

Unit: _____

Proposal Quantity: _____ Unit Price Reduction: \$ _____ Discount: \$ _____

Item No: _____

Description: _____

Unit: _____

Proposal Quantity: _____ Unit Price Reduction: \$ _____ Discount: \$ _____

Item No: _____

Description: _____

Unit: _____

Proposal Quantity: _____ Unit Price Reduction: \$ _____ Discount: \$ _____

TOTAL DISCOUNT _____

It is understood that the discount will only apply if awarded under the conditions as listed above and signed by the bidder.

Project: NHU-4-083(128)197 (PCN-20600)

RECEIPT OF ADDENDA ACKNOWLEDGEMENT

We hereby acknowledge receipt of the following addenda:

Addendum # _____ Dated _____

PROPOSAL GUARANTY

A proposal guaranty is required. The proposal guaranty must comply with Section 102.09, "Proposal Guarantee" of the Standard Specifications.

TYPE OF PROPOSAL GUARANTY APPLIED TO THIS PROJECT (Check one):

_____ Annual Bid Bond*

_____ Single Project Bid Bond

_____ Certified or Cashier's Check

*Annual Bid Bond is required when submitting proposals electronically

DISADVANTAGED BUSINESS ENTERPRISE PARTICIPATION (RGC)

North Dakota Department of Transportation, Civil Rights Division

SFN 52750 (Rev. 01-2015)

FORM A

Revision Date

Contractor		Phone
Job No.	Project No.	Bid Opening Date

NOTE: This revised Form A represents a change in the bidders original Form A which was submitted electronically at the time of bid. Nevertheless, the bidder is bound by the proposal submitted at the time of bid, under NDDOT provisions, and thus the bidders proposal, the hard copy proposal, addenda, plans, standard specifications, supplemental specifications, and special provisions are part of the bid and contract.

For the life of the project, any changes in work listed here to be self-performed, to be performed by a DBE, or to be completed by a non-DBE subcontractor approved at the time of award must be approved in writing by the Civil Rights Division prior to commencement of any work. No payment will be made without written approval.

PRINT ALL NUMBERS CLEARLY AND LEGIBLY.

LIST ALL DBE FIRMS WHO QUOTED YOUR FIRM ON THIS PROJECT IN SECTION 1, SECTION 2, and/or SECTION 3.

Section 1.

List **DBE** firms to be used on the project.

- List DBE Firms to be used by the bidder toward the projects goal achievement.
- List the DBEs to be used by subcontractors toward the project goal.
 - Include the subcontractor's Form A listing the DBEs to be used by the subcontractor.
- List the spec & code item numbers to be performed by DBEs and the total dollar value of the contract.
 - Note whether the DBE firm is to perform only a portion of a spec & code item (supply, haul, place, etc.) and state the reason(s) the DBE is not being used for the entire item.
 - State the name of the contractor who will perform the remaining portion.
- DBE bidders: List the work to be performed with "own forces and equipment."
 - Separately list any work to be subcontracted to DBEs and any materials to be purchased from DBEs.

DBE Firm	
List Specific Spec & Code Item Numbers or Products to be Supplied	Total Contract Dollar Value
Percent DBE will do with own equipment/forces=	%
Percent Non-DBE trucker will perform =	% If Regular Dealer, X 60% =

DBE Firm	
List Specific Spec & Code Item Numbers or Products to be Supplied	Total Contract Dollar Value
Percent DBE will do with own equipment/forces=	%
Percent Non-DBE trucker will perform =	% If Regular Dealer, X 60% =

DBE Firm	
List Specific Spec & Code Item Numbers or Products to be Supplied	Total Contract Dollar Value
Percent DBE will do with own equipment/forces=	%
Percent Non-DBE trucker will perform =	% If Regular Dealer, X 60% =

Continued

FORM A (continued)

DBE Firm	
List Specific Spec & Code Item Numbers or Products to be Supplied	Total Contract Dollar Value
Percent DBE will do with own equipment/forces=	%
Percent Non-DBE trucker will perform	= % If Regular Dealer, X 60% =

DBE Firm	
List Specific Spec & Code Item Numbers or Products to be Supplied	Total Contract Dollar Value
Percent DBE will do with own equipment/forces=	%
Percent Non-DBE trucker will perform	= % If Regular Dealer, X 60% =

Section 2:

List DBE firms not used because the bidder will self-perform or procure specific spec/code item numbers.

DBE Firms not used; Bidder Self-Performing	Spec. & code item numbers or products to be supplied by the bidder
1.	
2.	
3.	
4.	

Section 3.

List DBE firms not used due to bid differential and indicate which firm will be performing the work instead.

DBE Firms not used, bid differential	Firms to be used instead of DBE
DBE Firm	

See DBE Race/Gender Conscious Special Provision for additional information. Email this form to

Subquotes@nd.gov or Fax to (701)328-0343

BID ITEMS

Project: NHU-4-083(128)197 (PCN-20600)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
001	103	0100	CONTRACT BOND	L SUM	1.				
002	202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	86.				
003	202	0119	SAW CONCRETE	LF	119.				
004	202	0130	REMOVAL OF CURB & GUTTER	LF	48.				
005	203	0218	GUARDRAIL EMBANKMENT	EA	2.				
006	302	0100	SALVAGED BASE COURSE	TON	38.				
007	401	0050	TACK COAT	GAL	2,928.				
008	411	0100	MILLING PAVEMENT SURFACE	TON	3,217.				
009	430	0045	SUPERPAVE FAA 45	TON	3,258.				
010	430	1000	CORED SAMPLE	EA	10.				
011	430	2000	PATCHING	TON	173.				
012	430	6428	PG 64-28 ASPHALT CEMENT	TON	190.				
013	602	0130	CLASS AAE-3 CONCRETE	CY	6.				
014	602	1135	BRIDGE APPROACH SLAB-REMOVE & REPLACE	SY	404.400				
015	624	3002	DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL	LF	503.900				
016	650	0704	OVERLAY CONCRETE	CY	150.				

BID ITEMS

Project: NHU-4-083(128)197 (PCN-20600)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
017	650	0720	CLASS 1 REMOVAL	SY	2,500.				
018	650	0721	CLASS 2 REMOVAL	SY	500.				
019	650	0722	CLASS 2-A REMOVAL	LF	900.				
020	650	0723	CLASS 3 REMOVAL	SY	125.				
021	650	0724	CLASS 4 REMOVAL	SY	25.				
022	702	0100	MOBILIZATION	L SUM	1.				
023	704	0100	FLAGGING	MHR	400.				
024	704	1000	TRAFFIC CONTROL SIGNS	UNIT	1,707.				
025	704	1035	ATTENUATION DEVICE-TYPE B-25	EA	2.				
026	704	1052	TYPE III BARRICADE	EA	10.				
027	704	1060	DELINEATOR DRUMS	EA	124.				
028	704	1067	TUBULAR MARKERS	EA	140.				
029	704	1087	SEQUENCING ARROW PANEL-TYPE C	EA	2.				
030	704	1500	OBLITERATION OF PAVEMENT MARKING	SF	5,000.				
031	704	3510	PRECAST CONCRETE MED BARRIER-STATE FURNISHED	EA	91.				
032	706	0550	BITUMINOUS LABORATORY	EA	1.				

BID ITEMS

Project: NHU-4-083(128)197 (PCN-20600)

Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.

Item No.	Spec No.	Code No.	Description	Unit	Approx. Quantity	Unit Price		Amount	
						\$\$\$\$	000	\$\$\$\$	00
033	706	0600	CONTRACTOR'S LABORATORY	EA	1.				
034	722	6200	ADJUST MANHOLE	EA	1.				
035	748	0140	CURB & GUTTER-TYPE I	LF	28.				
036	748	0141	CURB & GUTTER-TYPE 1 SPECIAL	LF	20.				
037	750	0115	SIDEWALK CONCRETE 4IN	SY	73.400				
038	750	2115	DETECTABLE WARNING PANELS	SF	80.				
039	762	0110	EPOXY PVMT MK 4IN LINE-GROOVED	LF	25,568.				
040	762	0131	EPOXY PVMT MK 6IN LINE-GROOVED	LF	470.				
041	762	0132	EPOXY PVMT MK 8IN LINE-GROOVED	LF	13,278.				
042	762	0135	EPOXY PVMT MK 24IN LINE-GROOVED	LF	480.				
043	762	0136	EPOXY PVMT MK MESSAGE-GROOVED	SF	1,184.				
044	762	0430	SHORT TERM 4IN LINE-TYPE NR	LF	2,680.				
045	762	0434	SHORT TERM 8IN LINE-TYPE NR	LF	1,648.				
046	764	0131	W-BEAM GUARDRAIL	LF	91.				
047	764	0145	W-BEAM GUARDRAIL END TERMINAL	EA	2.				
048	764	0151	REMOVE W-BEAM GUARDRAIL & POSTS	LF	79.				

PROPOSAL FORM

North Dakota Department of Transportation

BID OPENING: May 13, 2016

Job 024

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Rev: 5/5/2016

Project: NHU-4-083(128)197 (PCN-20600)

Type of Work: SELECTIVE MILL & OVERLAY, HMA, BRIDGE DECK OVERLAY, APPROACH SLAB REPAIR

County: WARD

Length: 1.2540 Miles

TIME FOR COMPLETION:

The undersigned Bidder agrees, if awarded the contract, to prosecute the work with sufficient forces and equipment to complete the contract work within the allowable time specified as follows:

WORKING DAY CONTRACT: NA working days are provided. The Department will begin charging working days beginning NA or the date work begins on the project site, whichever is earlier.

CALENDAR DAY CONTRACT: NA calendar days are provided. The completion date will be determined by adding NA calendar days to NA or the date work begins on the project site, whichever is earlier.

COMPLETION DATE CONTRACT The project completion date is 10/22/2016. The Department provides a minimum of NA working days. The Department will begin charging working days beginning NA or the date work begins on the project site, whichever is earlier.

TABLE OF CONTENTS

Revised 5/2/2016	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-083(128)197	2	1

PLAN SECTIONS

Section	Page(s)	Description
1	1	Title Sheet
2	1	Table of Contents
4	1	Scope of Work
6	1	Notes
8	1	Estimate of Quantities
10	1	Basis of Estimate
20	1	Milling Detail
20	2	ADA Details
20	3	General Detail
30	1 - 3	Typical Sections
90	1 - 4	Paving Layouts
100	1	Traffic Control Device List
100	2 - 7	Work Zone Traffic Control
120	1 - 4	Pavement Marking
120	5 - 6	Pavement Marking Quantity List
130	1 - 3	Guardrail
170	1 - 7	Bridges and Box Culverts

LIST OF STANDARD DRAWINGS

Number	Description
D-101-1, 2, 3	NDDOT Abbreviations
D-101-10	NDDOT Utility Company and Organization Abbreviations
D-101-20, 21	Line Styles
D-101-30, 31, 32	Symbols
D-704-1	Attenuation Device
D-704-2	Traffic Control For Coring of Hot Bituminous Pavement
D-704-5	Construction Sign Detail
D-704-7	Breakaway Systems for Construction Zone Signs - Perforated Tube
D-704-8	Breakaway Systems for Construction Zone Signs - U-Channel Post
D-704-9	Construction Sign Details - Terminal and Guide Signs
D-704-10	Construction Sign Details - Regulatory Signs
D-704-11	Construction Sign Details - Warning Signs
D-704-12	Shoulder Closure Tapers
D-704-13	Barricade and Channelizing Device Details
D-704-14	Construction Sign Punching and Mounting Details
D-704-20	Terminal and Seal Coat Sign Layouts
D-704-23	Short Term Urban Detour and Lane Closure on a Divided Highway Layouts
D-704-25	Lane Closures on Urban Streets Layouts
D-704-26	Miscellaneous Sign Layouts
D-704-34	Sign Layout for One Lane Closure
D-704-50	Portable Sign Support Assembly
D-704-51	Portable Precast Concrete Median Barrier (Temporary Usage)
D-706-1	Bituminous Laboratory
D-748-1	Curb & Gutter and Valley Gutter
D-750-2	Sidewalk
D-750-3	Curb Ramp Details
D-762-1	Pavement Marking Message Details
D-762-4	Pavement Marking
D-762-6	Short-Term Pavement Marking
D-764-1	W-Beam Guardrail General Details
D-764-5	Sequential Kinking Terminal
D-764-10	Thrie Beam Transition to Double Box Beam Retrofit
D-764-22	Typical Grading at Bridge Ends with W-Beam Guardrail

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NHU-4-083(128)197	6	1

NOTES

- 107-700 HAUL ROADS:** The Engineer will not designate paved roads off the state system as haul roads.
- 107-710 HAUL ROADS:** Before submitting a proposal, contact the appropriate State, County, Township, or City officials to determine if there are any roadways that will be designated as "no haul routes".
- 203-P01 GUARDRAIL EMBANKMENT:** Include all costs for water, removing and spreading topsoil, seeding and mulching in the contract unit price for "Guardrail Embankment".
- 203-P02 GUARDRAIL EMBANKMENT:** The embankment material required for guardrail installation is not available within the highway right of way. It will be the contractor's responsibility to obtain embankment material. Include all costs for embankment material in the contract unit price for "Guardrail Embankment".
- 411-P01 MILLING PAVEMENT SURFACE:** Deliver and stockpile milled material in the NDDOT – Minot District maintenance yard at 1305 Highway 2 Bypass East, Minot, ND 58701. Do not drive any equipment on the stockpiled material. Notify the Minot District Maintenance Department 48 hours prior to stockpiling milled material. (1-701-857-6925) Include all costs to perform this work in the contract unit price for "Milling Pavement Surface".
- 411-P02 TEMPORARY ASPHALT WEDGES:** Place and maintain temporary asphalt wedges at the beginning and ending of milled sections. Place wedges at these milled areas prior to traffic being allowed on the milled roadway section. Include all costs associated with labor, materials, and equipment for the installation, maintenance and removal of the asphalt wedges in the contract unit price for "Milling Pavement Surface".
- 430-P01 PG 64-28 ASPHALT CEMENT:** Use a PG 64-28 asphalt binder that meets the following additional PG specifications: MSCR, TP-70: Heavy Traffic "H" Grade, J_{nr} 3.2, max 2.0 kPa – J_{nr} diff, max 75%, test temp, 64°C.
- 704-100 TRAFFIC CONTROL SUPERVISOR:** Provide a Traffic Control Supervisor.
- 704-200 PRECAST CONCRETE MEDIAN BARRIERS – STATE FURNISHED:** Obtain 91 barriers from the Stanley NDDOT storage yard. Return barriers to the Stanley NDDOT storage yard.
- Some 4 inch x 4 inch boards are available at the return location. Provide any additional 4 inch x 4 inch boards necessary to stack barriers. The boards will become property of the Department. Include the cost of boards in the contract unit price for "Precast Concrete Median Barrier – State Furnished".
- 704-P01 TRAFFIC CONTROL FOR BITUMINOUS SURFACING:** While milling and overlay paving is underway Traffic Control Devices will be in compliance with the following Standard Drawings:
1. Standard D-704-20, layout G. For project terminal signing during paving operations. Sign G20-1b-60 will be required. Signs G20-2a-48 & R2-1-48 are included in D-34.
 2. Standard D-704-26, layout G: For paving operations.
 3. Standard D-704-34.
- Quantities have been developed based on the full length of the project. The required traffic control signs and devices are included in the "Traffic Control Device List" and will be measured and paid at the contract Unit Price for each device. Additional devices required to accommodate the contractor's operation will be at the contractor's cost.

- 704-P02 CONSTRUCTION TRAFFIC:** The contractor's construction traffic will only be allowed to access at intersections and crossovers only. Construction traffic cannot operate in the median and also will not be permitted to cross through the median to access other roads.
- 704-P03 WORK HOURS:** There are no work hour restrictions for lane closures on this project. Night work is allowed.
- 704-P04 SIDEWALK CLOSURES:** Follow Section 6F.14 of the MUTCD. Signs for sidewalk closures have been added to the Traffic Control Devices List.
- 706-P01 BITUMINOUS LABORATORY:** Supply a copy machine with reduction capabilities for the field laboratory, as well as the toner. The payment for these items to be included in the bid price for "Bituminous Laboratory".
- 748-P01 CURB & GUTTER - TYPE 1 SPECIAL:** Include all costs associated with labor, materials, and equipment for the adjustment of the inlet located at Sta. 10473+47 Rt in the contract unit price for "Curb & Gutter – Type 1 Special".
- 750-P01 SIDEWALK CONCRETE 4IN:** Include all costs associated with labor, materials, and equipment for the installation of Salvaged Base Course for the sidewalks in the contract unit price for "Sidewalk Concrete 4IN".
- 764-P01 GUARDRAIL:** Existing w-beam guardrail removed will remain the property of the NDDOT. Deliver to the Minot NDDOT maintenance yard at 1305 Highway 2 Bypass East, Minot, ND 58701. Include all costs to deliver existing w-beam guardrail in the price bid for guardrail removal items.
- 885-001 CAST IRON DETECTABLE WARNING PANELS:** If cast iron detectable warning panels are used, provide cast iron panels with a minimum thickness of 0.2 inches.

This document was originally issued and sealed by Daniel N. Green, Registration Number PE-7616, on 05/03/16 and the original document is stored at the North Dakota Department of Transportation.

SPEC	CODE	ITEM DESCRIPTION	UNIT	FUNDING A - MAINLINE	FUNDING B - CITY COST SHARE	TOTAL QUANTITY
103	0100	CONTRACT BOND	L SUM	0.99	0.01	1
202	0114	REMOVAL OF CONCRETE PAVEMENT	SY	86	-	86
202	0119	SAW CONCRETE	LF	119	-	119
202	0130	REMOVAL OF CURB & GUTTER	LF	48	-	48
203	0218	GUARDRAIL EMBANKMENT	EA	2	-	2
302	0100	SALVAGED BASE COURSE	TON	38	-	38
401	0050	TACK COAT	GAL	2,928	-	2,928
411	0100	MILLING PAVEMENT SURFACE	TON	3,217	-	3,217
430	0045	SUPERPAVE FAA 45	TON	3,258	-	3,258
430	1000	CORED SAMPLE	EA	10	-	10
430	2000	PATCHING	TON	173	-	173
430	6428	PG 64-28 ASPHALT CEMENT	TON	190	-	190
602	0130	CLASS AAE - 3 CONCRETE	CY	6.0	-	6.0
602	1135	BRIDGE APPROACH SLAB - REMOVE & REPLACE	SY	404.4	-	404.4
624	3002	DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL	LF	503.9	-	503.9
650	0704	OVERLAY CONCRETE	CY	150	-	150
650	0720	CLASS 1 REMOVAL	SY	2,500	-	2,500
650	0721	CLASS 2 REMOVAL	SY	500	-	500
650	0722	CLASS 2-A REMOVAL	LF	900	-	900
650	0723	CLASS 3 REMOVAL	SY	125	-	125
650	0724	CLASS 4 REMOVAL	SY	25	-	25
702	0100	MOBILIZATION	L SUM	0.99	0.01	1
704	0100	FLAGGING	MHR	376	24	400
704	1000	TRAFFIC CONTROL SIGNS	UNIT	1,622	85	1,707
704	1035	ATTENUATION DEVICE - TYPE B-25	EA	2	-	2
704	1052	TYPE III BARRICADE	EA	10	-	10
704	1060	DELINEATOR DRUMS	EA	114	10	124
704	1067	TUBULAR MARKERS	EA	130	10	140
704	1087	SEQUENCING ARROW - TYPE C	EA	2	-	2
704	1500	OBLITERATION OF PAVEMENT MARKING	SF	5,000	-	5,000
704	3510	PRECAST CONCRETE MED BARRIER - STATE FURNISHED	EA	91	-	91
706	0550	BITUMINOUS LABORATORY	EA	1	-	1
706	0600	CONTRACTOR'S LABORATORY	EA	1	-	1
722	6200	ADJUST MANHOLE	EA	1	-	1
748	0140	CURB & GUTTER-TYPE 1	LF	28	-	28
748	0141	CURB & GUTTER-TYPE 1 SPECIAL	LF	20	-	20
750	0115	SIDEWALK CONCRETE 4IN	SY	73.4	-	73.4
750	2115	DETECTABLE WARNING PANELS	SF	80	-	80
762	0110	EPOXY PVMT MK 4IN LINE-GROOVED	LF	22,853	2,715	25,568
762	0131	EPOXY PVMT MK 6IN LINE-GROOVED	LF	470	-	470
762	0132	EPOXY PVMT MK 8IN LINE-GROOVED	LF	12,763	515	13,278
762	0135	EPOXY PVMT MK 24IN LINE-GROOVED	LF	435	45	480
762	0136	EPOXY PVMT MK MESSAGE-GROOVED	SF	1,088	96	1,184
762	0430	SHORT TERM 4IN LINE-TYPE NR	LF	2,680	-	2,680
762	0434	SHORT TERM 8IN LINE-TYPE NR	LF	1,648	-	1,648
764	0131	W-BEAM GUARDRAIL	LF	91	-	91
764	0145	W-BEAM GUARDRAIL END TERMINAL	EA	2	-	2
764	0151	REMOVE W-BEAM GUARDRAIL & POSTS	LF	79	-	79
764	2081	REMOVE END TREATMENT & TRANSITION	EA	2	-	2
930	9639	APPROACH SLAB LIP REPAIR	LF	182	-	182

Estimate of Quantities

Mill & Overlay
US Hwy 83
S Urban Limits to 20th Ave SW
Minot, ND

BASIS OF ESTIMATE

Revised 5/2/16

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	NHU-4-083(128)197	10	1

Milling Pavement Surface

Measured by the ton, 2 Ton/CY of millings, see Sec 90

Hot Mix Asphalt

Superpave FAA 45 @ 2.0 Ton/CY, see Sec 90

PG 64-28 Asphalt Cement @ 5.8%

Tack Coat @ 0.10 Gal/SY for milled areas (29,340 SY)

Guardrail Locations				
Material	Unit	Stations	Stations	Total
		Sta 10472+67.80 Rt to Sta 10473+83.00 Rt	Sta 10476+33.00 Lt to Sta 10477+20.53 Lt	
Removal of Curb & Gutter	LF	20		20
Removal of Concrete Pavement	SY	1.8	10.6	12.4
Salvaged Base Course 6" Depth @ 1.875 Ton/CY	Ton	19.0	18.6	37.6
Superpave FAA 45 (2" Depth) @ 2 Ton/CY	Ton	6.4	6.6	13
PG 64-28 Asphalt Cement @ 5.8%	Ton	0.37	0.38	0.75

Patching

Quantity estimate based on 6" replacement depth, see Sec 90

Coring

Sta. 10419+25 to Sta. 10440+95 = 2170'

HBP Cored Samples							
	A	B	C	D			
Specification Section	Distance (Ft)+2000	Lanes	Lifts	Sublots (A x B x C)	Quantity (D x 2)	Quantity (1 per mile)	Unit
430.04 I.2.b(1), "General"	1	4	1	4	8	N/A	EA
430.04 I.2.b(2), "Pavement Thickness Determination Cores"					N/A	2	EA
				Total	8	2	EA

Short Term Line – Type NR

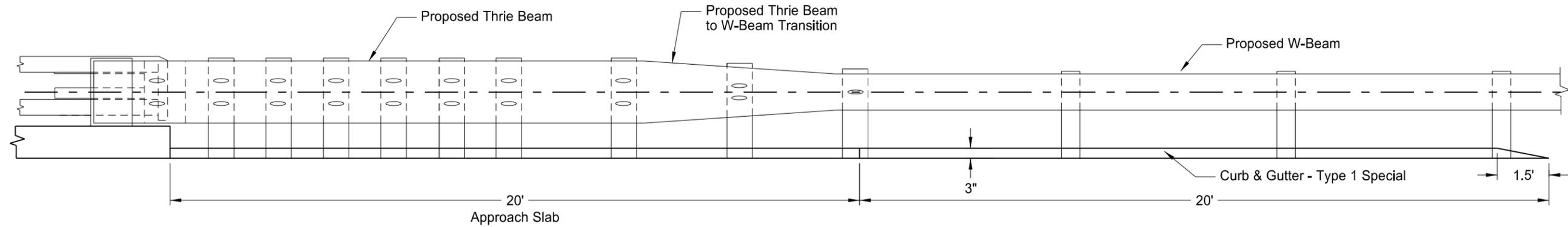
4" White Line, 10' Line, 30' Skip 1,320 LF/Mile
 4" Double Yellow Barrier Line 10,560 LF/Mile
 8" White Line 5,280 LF/Mile

Epoxy PVMT MK Line - Grooved

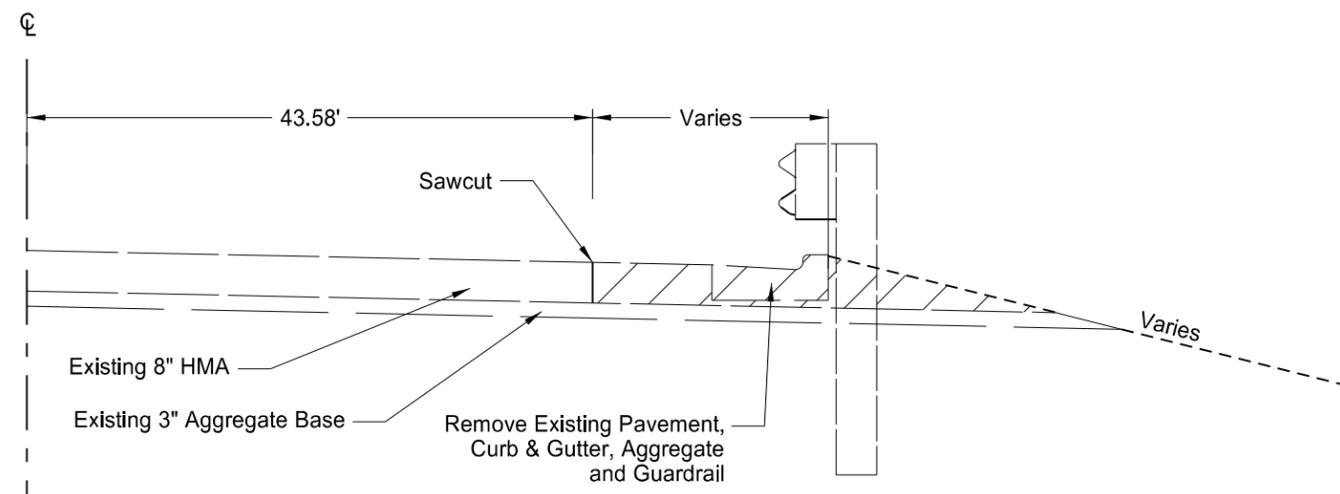
4" White Line, 10' Line, 30' Skip 1,320 LF/Mile
 4" White Edge Line 5,280 LF/Mile
 4" Guide Lines, 2' Line, 6' Skip 1,320 LF/Mile
 4" Yellow Edge Line 5,280 LF/Mile
 4" Double Yellow Barrier Line 10,560 LF/Mile

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Sheet Added 5/2/16	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-083(129)197	20	3

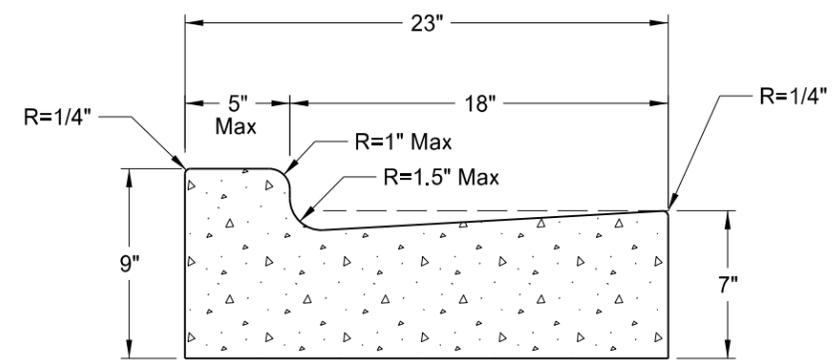


Elevation View

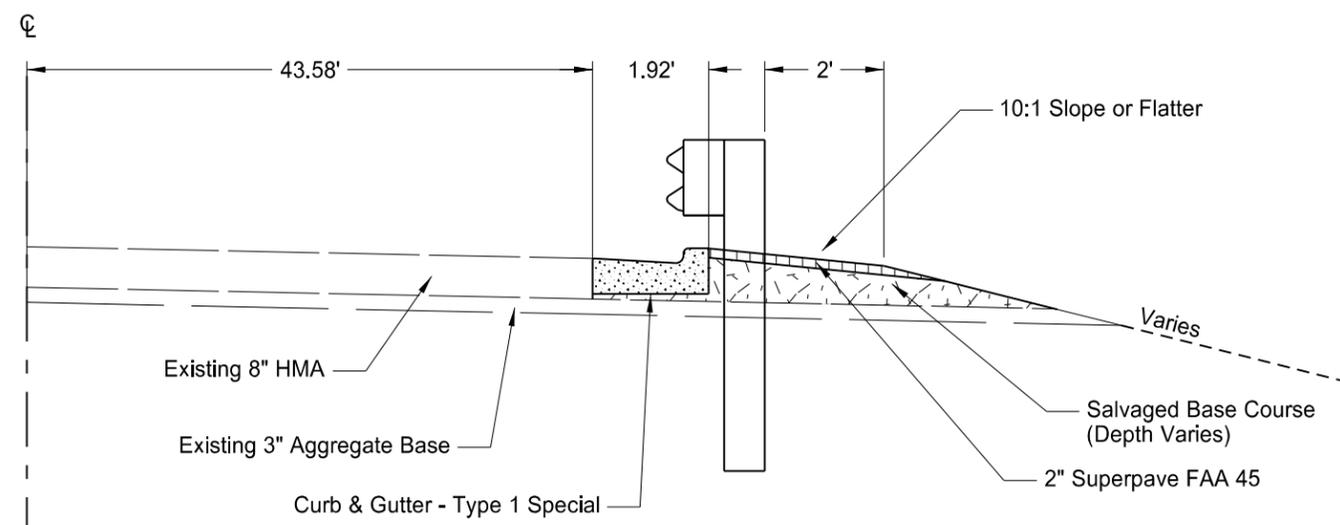


Removal Section View

Sta 10473+63.00 Rt to Sta 10474+83.00 Rt



Curb & Gutter - Type 1 Special Section View



Proposed Section View

Sta 10473+63.00 Rt to Sta 10474+83.00 Rt

Note:

1. Refer to Standard Drawing D-748-1 for additional details.
2. Superpave FAA 45 and Salvaged Base Course quantities have been included in the guardrail grading quantities shown on Section 10 Sheet 1.
3. Removal of existing HMA and aggregate base required to install the curb & gutter and guardrail has been included in the quantity for "Removal of Pavement".

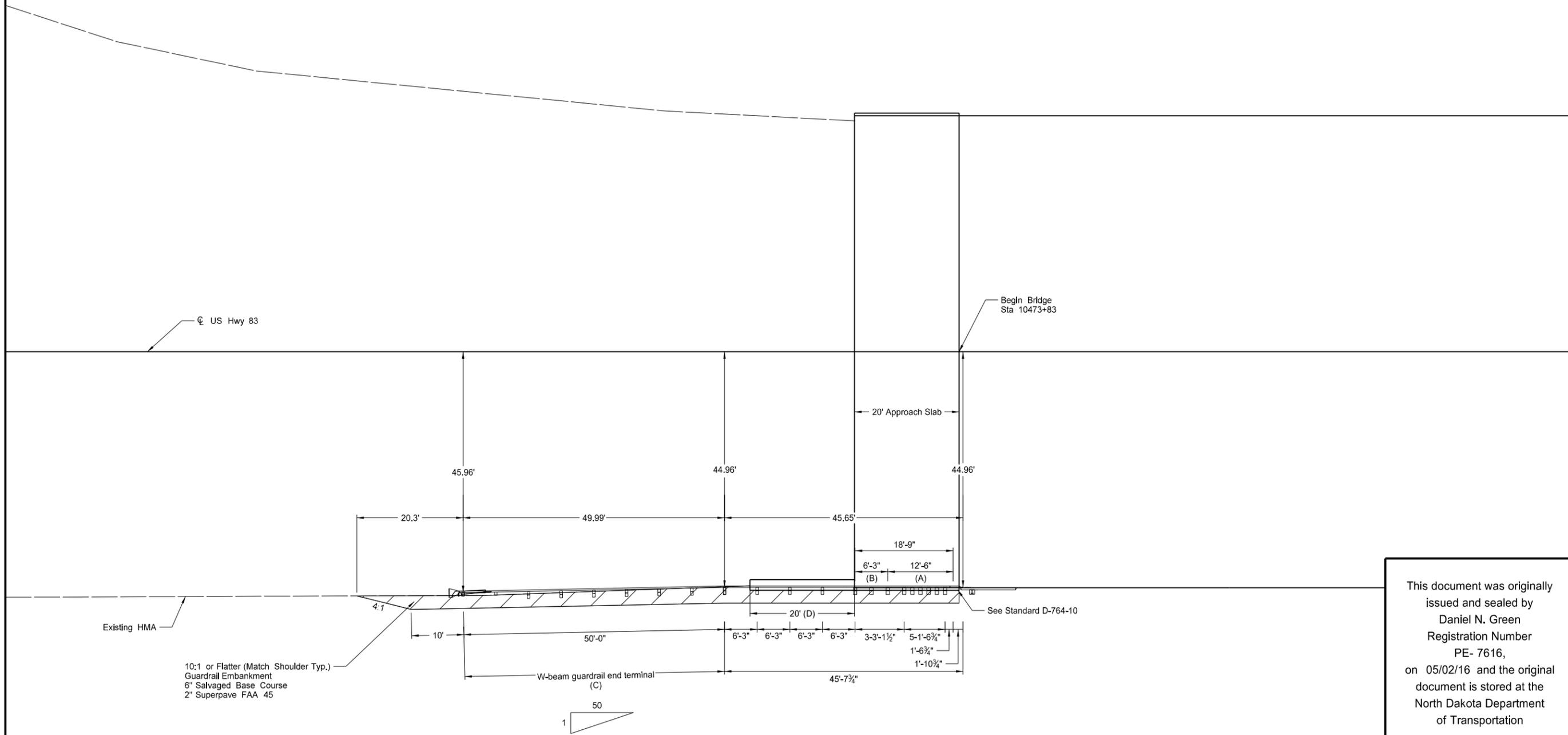
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Curb & Gutter - Type 1 Special Detail

Mill & Overlay
US Hwy 83
S Urban Limits to 20th Ave SW
Minot, ND

23 USC § 409 Documents
 NDDOT Reserves All Objections

Sheet Added 5/2/16	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	NHU-4-083(128)197	130	1



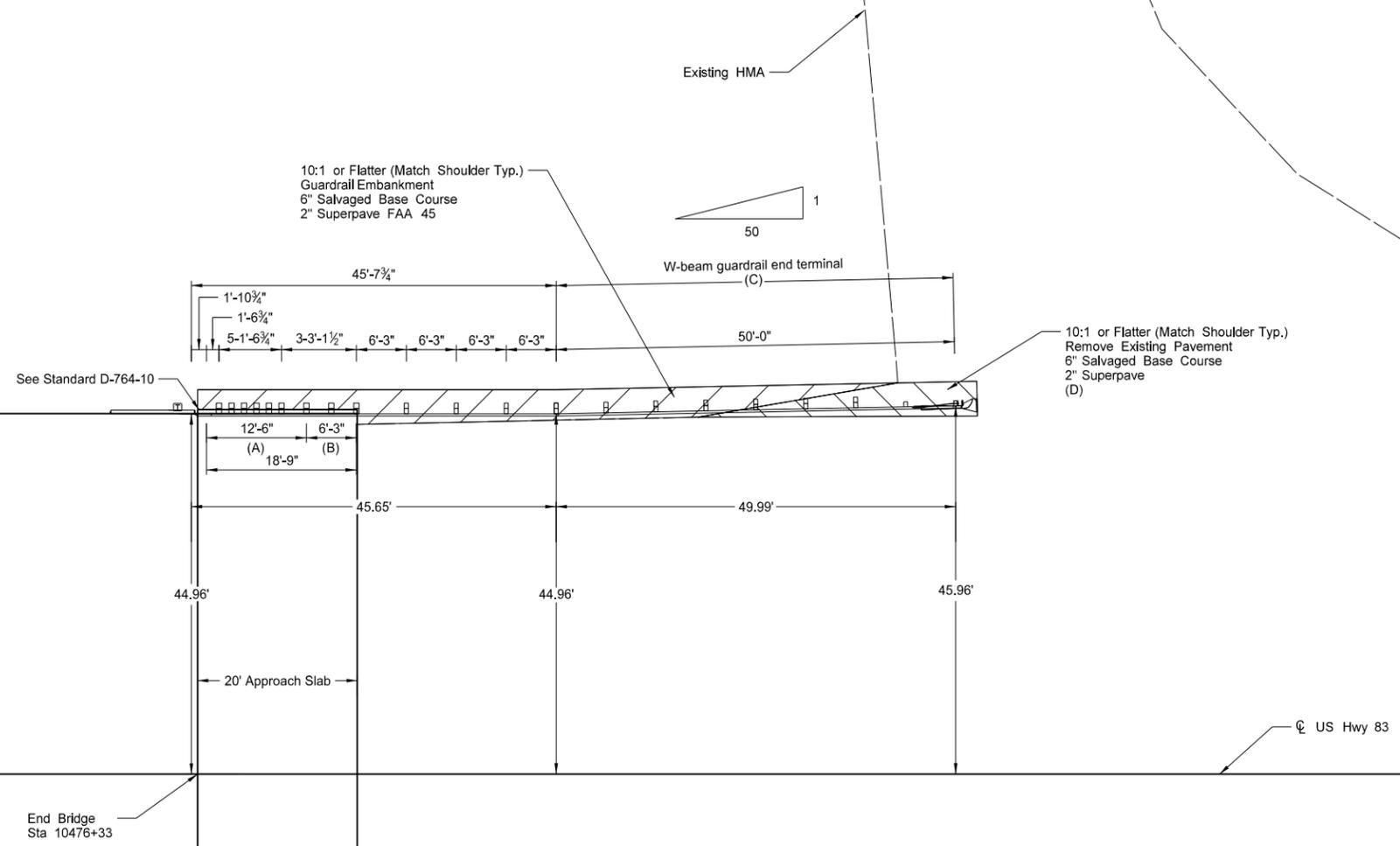
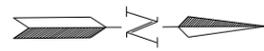
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- (A) Thrie beam rail section (Double Thickness)
- (B) W-beam to Thrie beam transition section (Double Thickness)
- (C) Install SKT end terminal at this location.
- (D) Remove existing curb & gutter. Sawcut and remove existing pavement to install 3" high Curb & Gutter - Type 1 Special. See Section 20 sheet for detail.

Thrie/W-Beam Guardrail Layout At Bridge Ends
 Br. No. 0002-146.366
 Mill & Overlay
 US Hwy 83
 S Urban Limits to 20th Ave SW
 Minot, ND

Sheet Added	5/2/16	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NHU-4-083(128)197	130	2

23 USC § 409 Documents
NDDOT Reserves All Objections



This document was originally issued and sealed by Daniel N. Green Registration Number PE- 7616, on 05/02/16 and the original document is stored at the North Dakota Department of Transportation

- (A) Thrie beam rail section (Double Thickness)
- (B) W-beam to Thrie beam transition section (Double Thickness)
- (C) Install SKT end terminal at this location.
- (D) Sawcut and remove existing 8" thick pavement, 4' wide to limits of guardrail. Replace with 6" of aggregate and 2" of HMA.

Thrie/W-Beam Guardrail Layout At Bridge Ends
Br. No. 0002-146.366
Mill & Overlay
US Hwy 83
S Urban Limits to 20th Ave SW
Minot, ND

23 USC § 409 Documents
NDDOT Reserves All Objections

Sheet Added	5/2/16	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
		ND	NHU-4-083(128)197	130	3

THRIE/W-BEAM GUARDRAIL SUMMARY OF QUANTITIES															
THRIE/W-BEAM GUARDRAIL AT BRIDGE ENDS															
LOCATION	(A) 5/8" ϕ x 18" LONG GUARD- RAIL BOLT	(A) 6" x 8" x 6'-0" TIMBER POST	(A) 6" x 8" x 14" TIMBER BLOCK	(A) 5/8" ϕ x 1-1/4" LONG GUARD- RAIL BOLT	(A) 12'-6" STRAIGHT W- BEAM RAIL SECTION	(A) REFLECTOR- IZED PLATES	(A) 8" x 8" x 6'-0" TIMBER POST	(A) 8" x 8" x 22" TIMBER OFFSET BLOCK	(A) 8" x 8" x 18" TIMBER OFFSET BLOCK	(A) 8" x 8" x 14" TIMBER OFFSET BLOCK	(A) 6'-3" DOUBLE W THRIE BEAM TRANSITION SECTION	(A) 2'-6" THRIE BEAM TERMINAL CONNECTOR	(A) 7/8" ϕ x VARIABLE LONG POST BOLT	(A) 3/4" ϕ x 2-1/2" LONG POST BOLT	(B) GUARDRAIL EMBANKMENT
	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	CY
Sta 10472+67.83 Rt to Sta 10473+83.77 Rt	21	4	4	48	2	4	9	7	1	1	1	1	5	2	5
Sta 10476+32.23 Lt to Sta 10477+27.87 Lt	21	4	4	48	2	4	9	7	1	1	1	1	5	2	5
TOTAL	42	8	8	96	4	8	18	14	2	2	2	2	10	4	10

Remove W-Beam Guardrail and Posts

Sta 10473+36.1 Rt to Sta 10473+75.50 Rt	39.4 LF
Sta 10476+40.50 Lt to Sta 10476+79.9 Lt	39.4 LF
Total	78.8 LF

W-Beam Guardrail End Terminal

Sta 10472+88.13 Rt to Sta 10473+38.12 Rt	1 EA
Sta 10476+77.88 Lt to Sta 10477+27.87 Lt	1 EA
Total	2 EA

(A) These items to be included in the bid price for "W-Beam Guardrail"

Remove End Treatment and Transition

Sta 10472+98.6 Rt to Sta 10473+36.1 Rt	1 EA
Sta 10476+79.9 Lt to Sta 10477+17.4 Lt	1 EA
Total	2 EA

Guardrail Embankment

Sta 10472+67.80 Rt to Sta 10473+83.00 Rt	1 EA
Sta 10476+33.00 Lt to Sta 10477+20.53 Lt	1 EA
Total	2 EA

(B) The volume of embankment (cubic yards) is for informational purposes only.

W-Beam Guardrail

Sta 10473+38.12 Rt to Sta 10473+83.77 Rt	45.7 LF
Sta 10476+32.23 Lt to Sta 10476+77.88 Lt	45.7 LF
Total	91.4 LF

Curb & Gutter - Type 1 Special

Sta 10473+63.00 Rt to Sta 10473+83.00 Rt	20 LF
Total	20 LF

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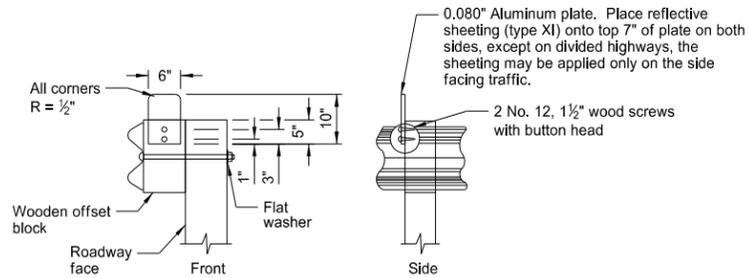
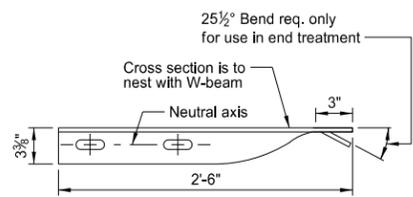
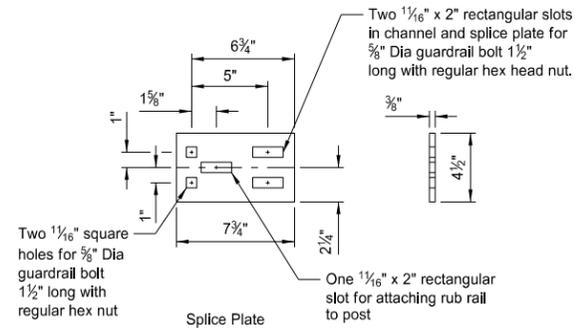
Thrie/W-Beam Guardrail Quantities

Mill & Overlay
US Hwy 83
S Urban Limits to 20th Ave SW
Minot, ND

W-BEAM GUARDRAIL GENERAL DETAILS

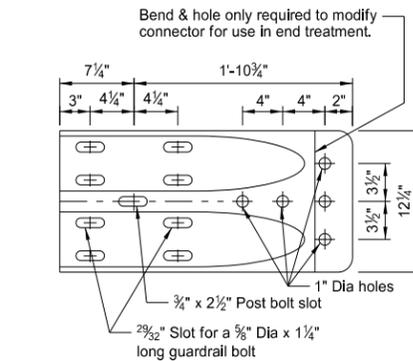
NOTES:

1. ReflectORIZED plates: Reflector plates shall begin at the first post and be spaced at 25' centers on guardrail less than 250' in length and at 50' centers for guardrail over 250' in length. The reflector shall be the same color as the pavement marking adjacent to that reflector unless noted otherwise on the plans.
2. Manner of replacing bituminous material at guardrail post: All excess earth from excavations for guard posts shall be disposed of as directed by the engineer. Replace bituminous material wherever guardrail is installed after mat has been laid. Cost of excavation and replacing of bituminous material to be included in the price bid for other items.
3. The Object Marker shall fit within the vertical edges of the Impact Plate. The retroreflective sheeting shall be type XI sheeting meeting the requirements of Section 894.02.B of the standard specifications. The sheeting shall be applied to 0.100 Aluminum sheeting meeting the requirements Section 894.01.A. The Object Marker shall attach to the Impact Head Plate with rivets or some other attachment device. The rivets or attachment device shall be non-rust. The stripes shall slope downward toward the roadway side.
4. Guardrail installation height tolerance = $-\frac{1}{4}"$, $+1"$.

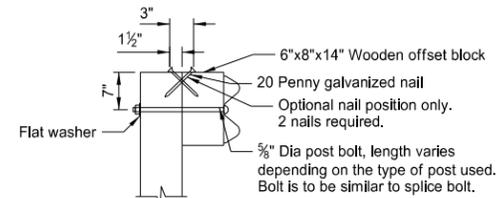


REFLECTORIZED PLATE DETAIL

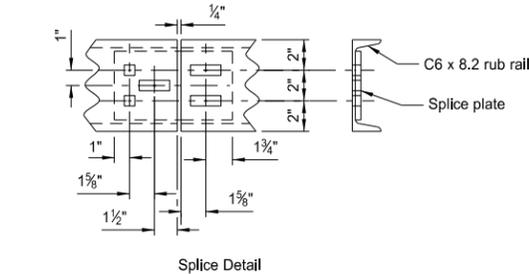
Additional reflectors are added to the W-beam guardrail quantities for placement on end treatment.



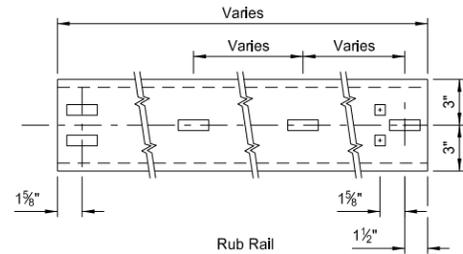
W BEAM TERMINAL CONNECTOR



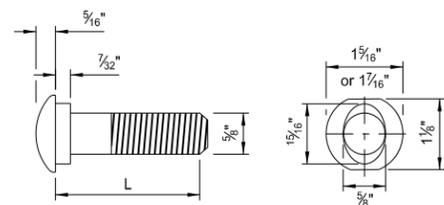
TYPICAL POST ATTACHMENT DETAIL



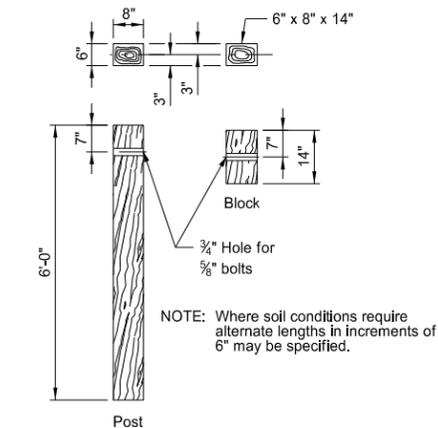
Splice Detail



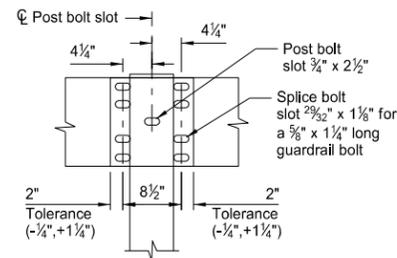
C6x8 RUB RAIL AND SPLICE PLATE



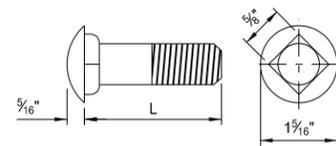
5/8" Diameter Guardrail Bolt	
L	Thread Length
1 1/4"	Full length thread
2"	1 3/4" Min thread length
9 1/2"	4" Min thread length
18"	4" Min thread length
20"	4" Min thread length
22"	4" Min thread length
25"	4" Min thread length



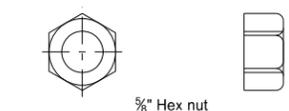
6"x8" TIMBER POST & BLOCK



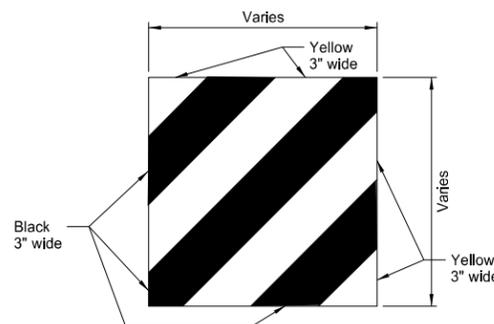
SPLICE DETAIL



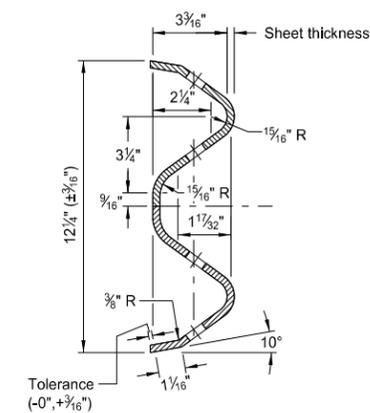
5/8" Diameter Carriage Bolt	
L	Thread Length
1 1/2"	Full length thread
3"	1 1/2" Min thread length
11"	1 3/4" Min thread length
13"	1 3/4" Min thread length



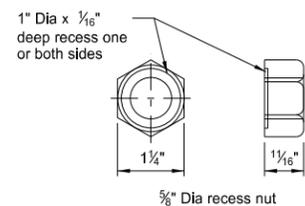
5/8" CARRIAGE BOLT & NUT



IMPACT HEAD OBJECT MARKER



W-BEAM CROSS SECTION



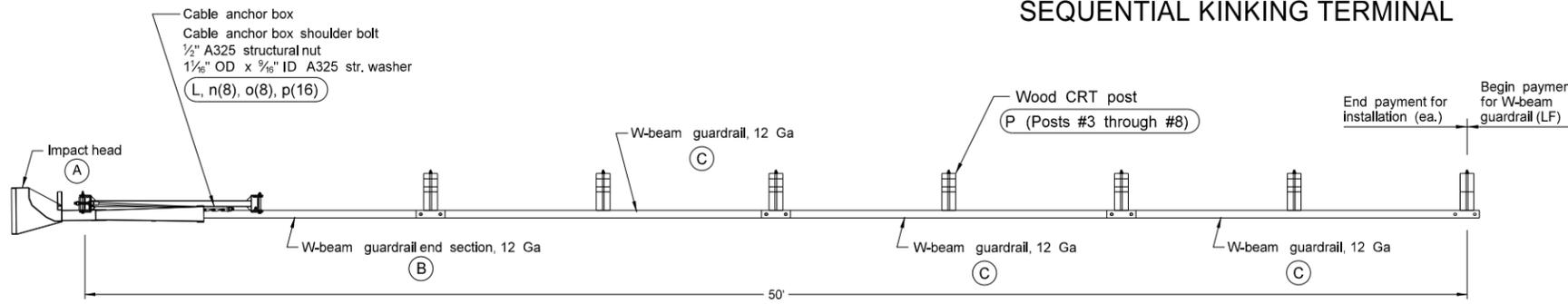
5/8" GUARDRAIL BOLT & RECESS NUT

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
10-11-13	
REVISIONS	
DATE	CHANGE

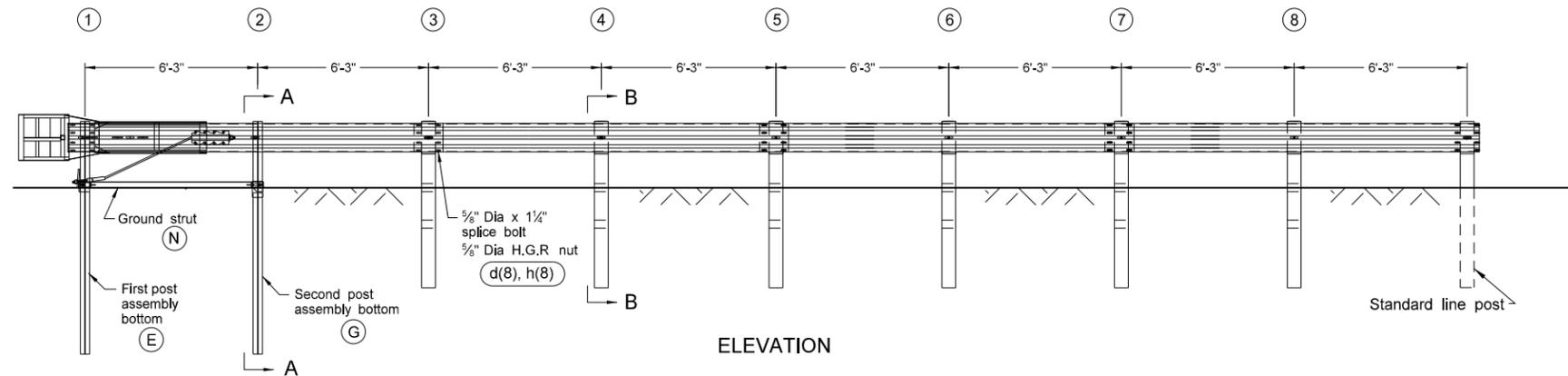
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SEQUENTIAL KINKING TERMINAL

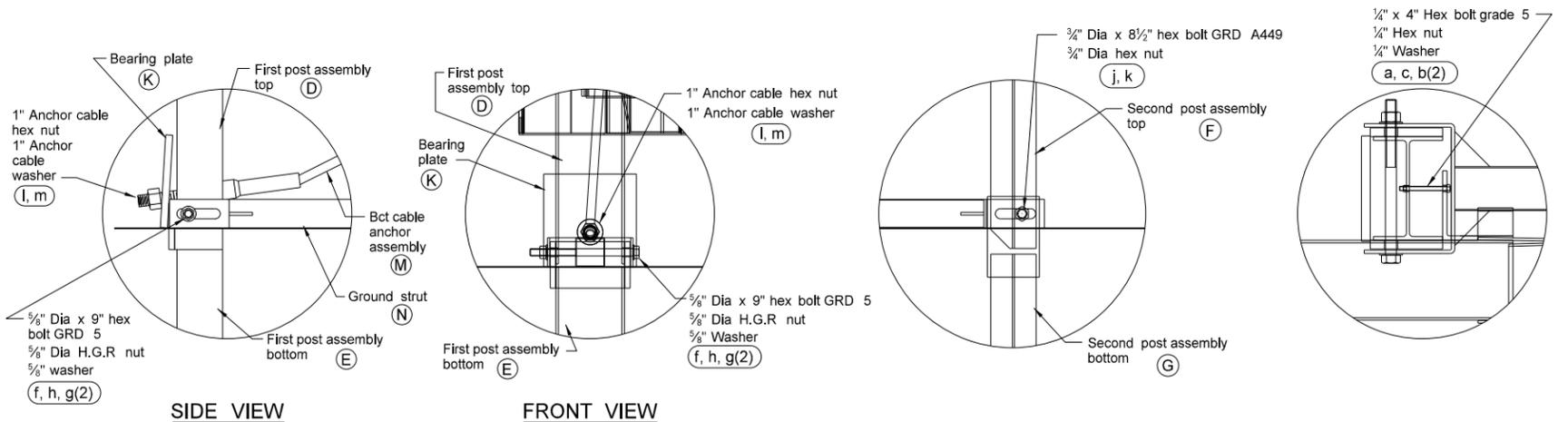
D-764-5



PLAN



ELEVATION



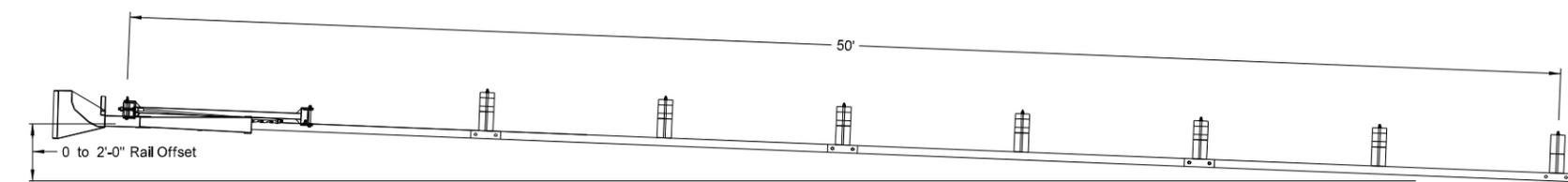
SIDE VIEW

FRONT VIEW

POST #1 CONNECTION DETAILS

SIDE VIEW DETAIL OF POST #2

IMPACT HEAD CONNECTION DETAIL

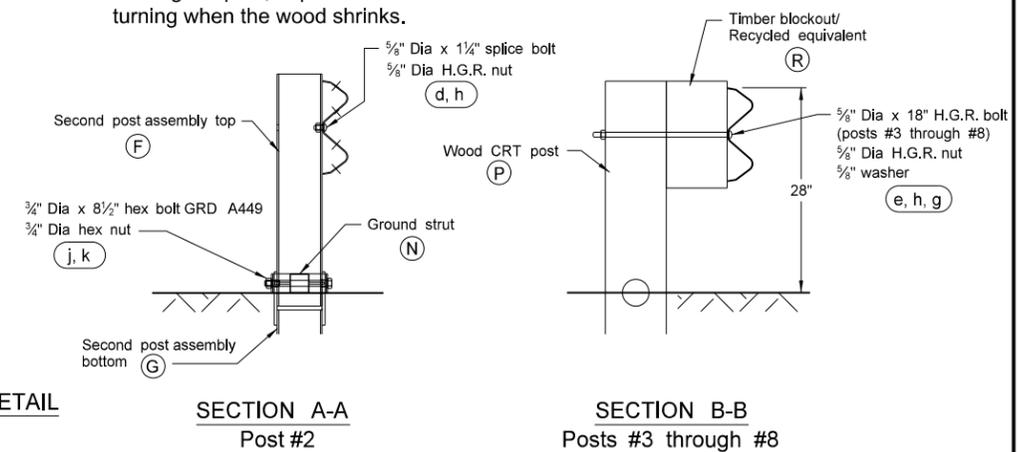


FLARED INSTALLATION
25:1 maximum flare rate

GENERAL NOTES:

- Breakaway posts are required with the SKT.
- All bolts, nuts, cable assemblies, cable anchors and bearing plates shall be galvanized.
- The SKT can be flared at a rate of up to 25:1 to prevent the impact head from encroaching on the shoulder.
- The lower sections of the posts shall not protrude more than 4" above the ground (measured along a 5' cord). Site grading may be necessary to meet this requirement.
- The lower section of the hinged posts should not be driven with the upper post attached. If the post is placed in a drilled hole, the backfill material must be satisfactorily compacted to prevent settlement.
- When rock is encountered, a 10" diameter post hole, 20" into the rock surface may be used if approved by the engineer. Granular material will be placed in the bottom of the hole, approximately 2 1/2" deep to provide drainage. Posts 1 & 2 can be field cut to length, placed in the hole and backfilled with adequately compacted material excavated from the hole.
- The breakaway cable assembly must be taut. A locking device (vice grips or channel lock pliers) should be used to prevent the cable from twisting when tightening nuts.
- The wood blockouts on post #3 through post #8 should be "toe nailed" with two 20 penny galvanized nails into each rectangular post, to prevent them from turning when the wood shrinks.

ITEM QTY		BILL OF MATERIALS
A	1	IMPACT HEAD
B	1	W-BEAM GUARDRAIL END SECTION, 12 Ga
C	3	W-BEAM GUARDRAIL, 12 Ga
D	1	FIRST POST ASSEMBLY TOP
E	1	FIRST POST ASSEMBLY BOTTOM
F	1	SECOND POST ASSEMBLY TOP
G	1	SECOND POST ASSEMBLY BOTTOM
K	1	BEARING PLATE
L	1	CABLE ANCHOR BOX
M	1	BCT CABLE ANCHOR ASSEMBLY
N	1	GROUND STRUT HINGED POST
P	6	WOOD CRT POST
R	6	TIMBER BLOCKOUT/RCY EQUIVALENT
HARDWARE		
a	2	1/4" x 4" HEX BOLT Grade 5
b	4	1/4" WASHER
c	2	1/4" HEX NUT
d	25	5/8" Dia x 1 1/4" SPLICE BOLT, POST #2
e	6	5/8" Dia x 18" H.G.R. BOLT (POSTS 3 THRU 8)
f	1	5/8" Dia x 9" HEX BOLT GRD 5
g	8	5/8" WASHER
h	32	5/8" Dia H.G.R. NUT
j	1	3/4" Dia x 8 1/2" HEX BOLT GRD A449
k	1	3/4" Dia HEX NUT
l	2	1" ANCHOR CABLE HEX NUT
m	2	1" ANCHOR CABLE WASHER
n	8	CABLE ANCHOR BOX SHOULDER BOLT
o	8	1/2" A325 STRUCTURAL NUT
p	16	1 1/16" OD x 3/16" ID A325 STR. WASHER



SECTION A-A
Post #2

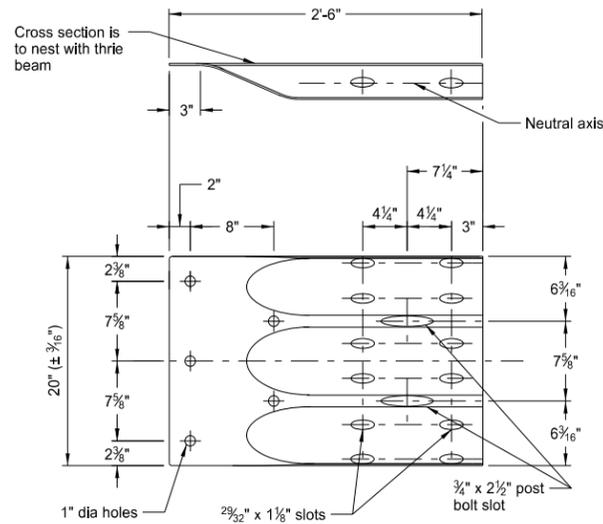
SECTION B-B
Posts #3 through #8

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION 10-11-13	
REVISIONS	
DATE	CHANGE

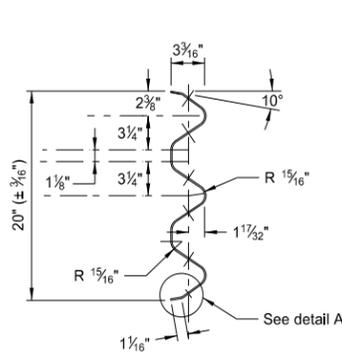
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THRIE BEAM TRANSITION TO DOUBLE BOX BEAM RETROFIT

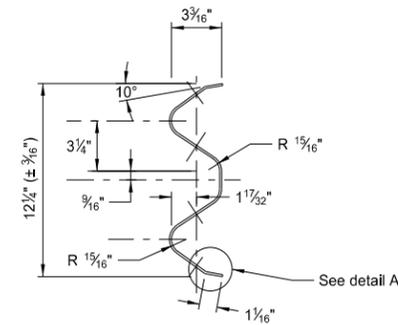
D-764-10



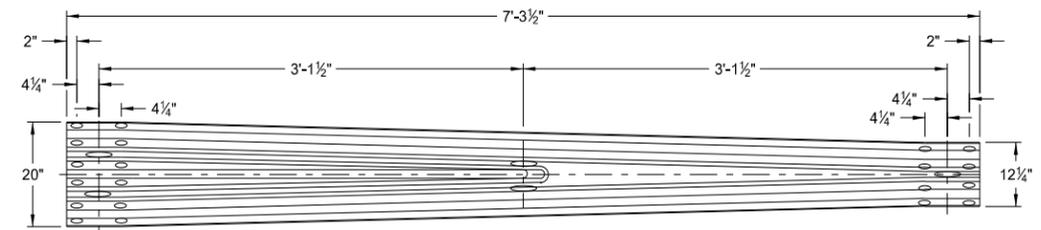
THRIE BEAM TERMINAL CONNECTOR



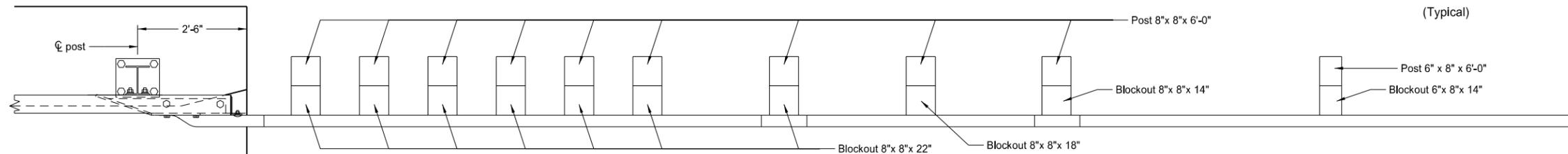
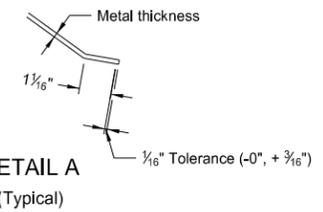
THRIE BEAM END VIEW



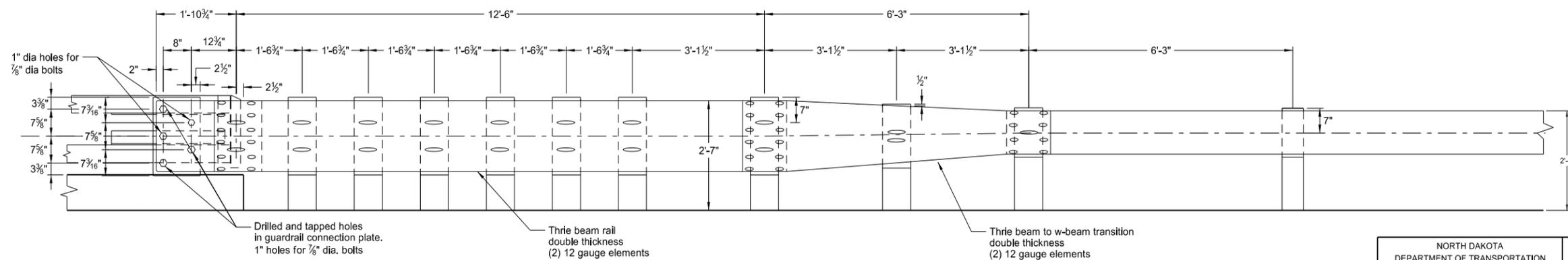
W-BEAM END VIEW



THRIE BEAM TO W-BEAM TRANSITION SECTION



PLAN



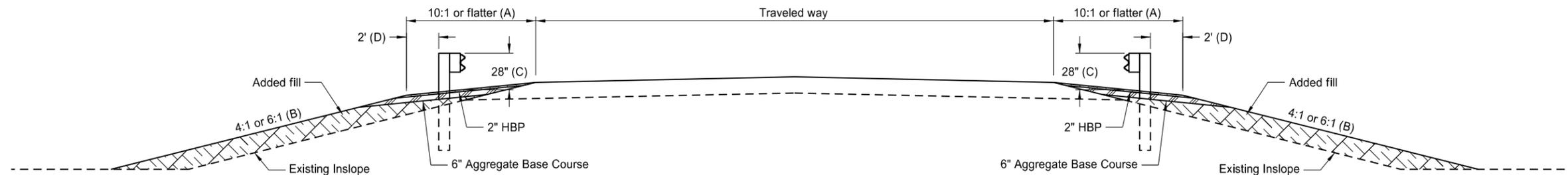
ELEVATION

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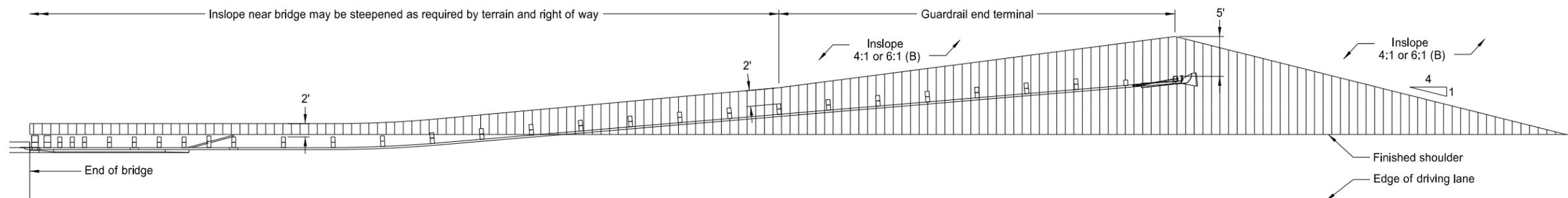
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TYPICAL GRADING AT BRIDGE ENDS
WITH W-BEAM GUARDRAIL

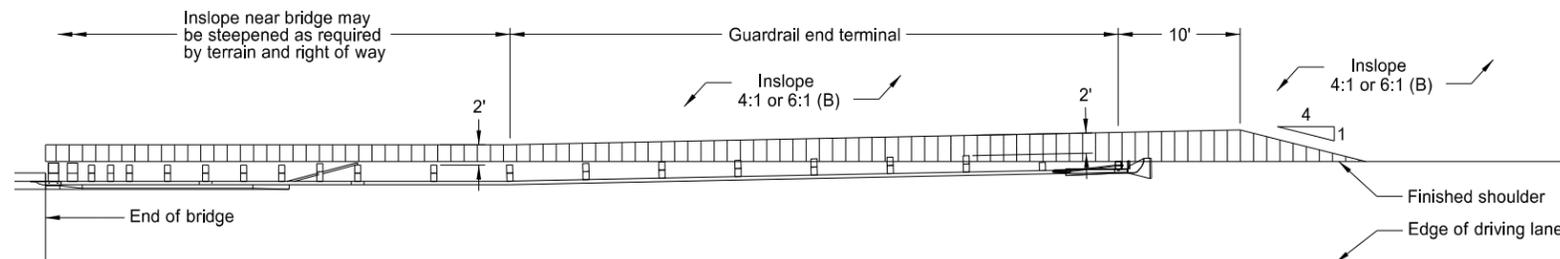
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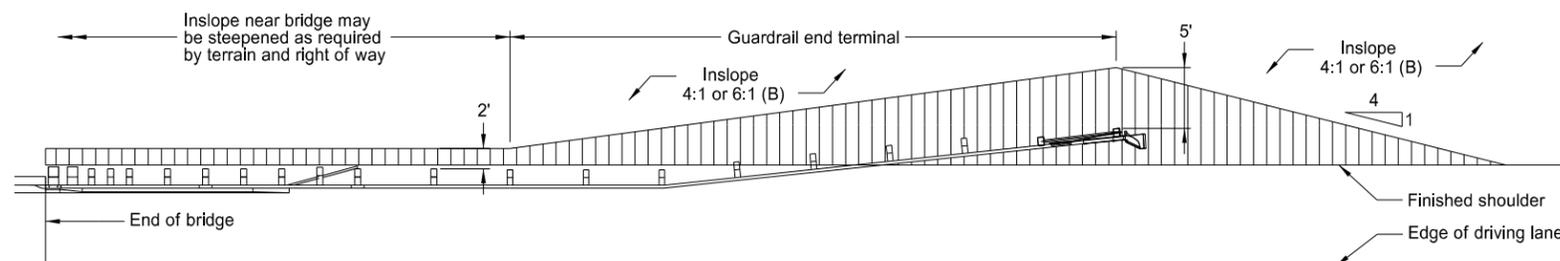
TYPICAL SECTION



PLAN LAYOUT
FLARED GUARDRAIL WITH END TERMINAL



PLAN LAYOUT
NON-FLARED GUARDRAIL WITH TANGENT END TERMINAL



PLAN LAYOUT
NON-FLARED GUARDRAIL WITH FLARED END TERMINAL

NOTES:

- (A) Slope flatter than 10:1 may be required to provide proper guardrail height.
- (B) Where normal inslope is 4:1 the added fill shall be 4:1. Where normal inslope is 6:1 the added fill shall be 6:1.
- (C) Measured from top of guardrail to top of surfacing at front face of guardrail.
- (D) Dimension at end terminals may vary per Plan Layouts shown on this sheet.

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