



# North Dakota Department of Transportation

Grant Levi, P.E.  
Director

Jack Dalrymple  
Governor

April 2, 2015

## ADDENDUM 1 – JOB 5

TO: All prospective bidders on project BRO-0051(020), Job No. 5 scheduled for the April 10, 2015 bid opening.

The following plan and proposal revisions shall be made:

Plan Revisions:

**See attached Summary from Timothy Arens dated March 30, 2015 for an explanation.**

Proposal Revision:

**Remove and replace pages 1 - 11 of 11 of the Proposal pages located at the beginning of the Bidders Proposal, with the 12 enclosed pages revised 3/31/15.**

Pages 1 thru 12 of 12:

Changed total page numbers from 11 to 12.

Page 8-10 of 12:

Items shifted due to added items.

Page 8 of 12:

Item 401 0050 TACK COAT; 120 GAL was added.  
Item 401 0060 PRIME COAT; 650 GAL was added.

Page 9 of 12:

Item 754 0110 FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING; quantity decreased from 32.6 SF to 25.1 SF.

Page 11 of 12:

Revised Completion Date from 10/30/2015 to 07/01/2016.

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.

CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER

80:plm

Enclosure

608 East Boulevard Avenue • Bismarck, North Dakota 58505-0700

Information: 1-855-NDROADS (1-855-637-6237) • FAX: (701) 328-0310 • TTY: 711 • [www.dot.nd.gov](http://www.dot.nd.gov)

1907 17th Street Southeast  
Minot, ND 58701  
701.837.8737  
www.ackerman-estvold.com

March 30, 2015

ADDENDUM #1 – JOB 5

To: All prospective bidders and suppliers on Project BRO-0051(020), Job 5, scheduled for the April 10, 2015, bid opening.

The following plan revisions and bid proposal changes shall be made:

**REMOVE & REPLACE**

**Bid Proposal Items:**

- Bid Items
- Time for Completion

**Plan Sheet Items:**

- Section 6 Sheets 1-2
- Section 8 Sheet 1
- Section 10 Sheet 1
- Section 60 Sheets 1-3
- Section 110 Sheet 1

**SUMMARY OF CHANGES:**

- Bid Items – Added bid items for tack coat and prime coat. Revised quantity for Flat Sheet for Signs – Type XI Refl Sheeting.
- Time for Completion – Revised the project completion date to July 1, 2016.
- Section 6 Sheets 1-2
  - Added note 100-P02 Winter Suspension to indicate items allowed to be completed the next construction season and the treatment of aggregate base prior to winter suspension.
  - Revised note 105-P01 Utilities to update anticipated date that the sanitary sewer truck line will be relocated.
  - Added note 202-P03 Removal of Existing Sewer Pipe.
  - Revised note 251-P01 Seed Mix to include required warranty and acceptance of seeded areas.
  - Revised note 970-P01 Tree Mitigation to include tree size, planting details, and timelines.
- Section 8 Sheet 1 – Added bid quantities for Tack Coat and Prime Coat. Corrected quantity for Flat Sheet for Signs – Type XI Refl Sheeting.
- Section 10 Sheet 1 – Added rates for tack coat and prime coat.
- Section 60 Sheets 1-3 – Corrected the size of the existing sanitary sewer line shown on the plans.
- Section 110 Sheet 1 – Corrected quantity total of flat sheet for signs.

Sincerely,  
Ackerman-Estvold Engineering



Timothy Arens, P.E.

**Project:** BRO-0051(020) (PCN-20373)

---

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:** BRO-0051(020) (PCN-20373)

- 
- 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:** BRO-0051(020) (PCN-20373)

---

**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.

**PROPOSAL FORM**

North Dakota Department of Transportation

**BID OPENING: April 10, 2015**

**Job 005**

Page 4 of 12

Rev: 3/31/2015

**Project:** BRO-0051(020) (PCN-20373)

**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(RN)**  
**North Dakota Department of Transportation, Civil Rights Division**  
 SFN 52012 (Rev. 07-2012)

**FORM A**

Contractor		Phone
Job No.	Project No.	Bid Opening Date

**By noon (Central time) on the next work day following the bid opening, all apparent low bidders must provide a list of the DBE firms intended for use on this project to the NDDOT Civil Rights Division.** The information provided may be submitted on this Form A or on a computer-generated form, giving the same information, attached to this Form A. If the prime contractor intends to use DBE quotes received from a subcontractor, the prime contractor **must** include the subcontractor's Form A information in the prime contractor's Form A.

**PRINT ALL NUMBERS CLEARLY AND LEGIBLY.**

1. For each DBE firm, list the specific bid item numbers to be performed and the total dollar value of the contract:
  - a. If the DBE firm will perform only a portion of a bid item (supply, haul, etc.), this **must** be so noted, in parenthesis, after the bid item number. **The bidder must state why the DBE was not used for the entire bid item.**
  - b. For DBE subcontractors, suppliers (regular dealers), and manufacturers, **list only the amount of work to be completed with each DBE's own employees and equipment.**
  - c. For DBE trucking firms, **list the amount of hauling to be performed by the DBE with its own trucks and employees;** or the fees or commissions earned on non-DBE leased trucks. However, if the DBE is leasing trucks from a non-DBE firm, including an owner-operator, you can count the total value of the services provided by the non-DBE, not to exceed the total value of the services provided by the DBE-owned trucks. (See page 9, number 4, of this special provision for more detailed information.)
2. DBE prime contractors **must** list the work they will perform with their **own forces** and any work subcontracted to or materials purchased from other DBEs.
3. If the information provided on Form C **differs** from the information provided on this Form A (bid item numbers, quantities, or dollar amounts), the apparent low bidder or subcontractor **must** provide, with the Form C, a written explanation for the difference.
4. The apparent low bidder or subcontractor **must** use the DBEs listed for the intended work indicated on Form C.
5. DBE bidders **must** list the work they will perform with their **own employees and equipment** and any work subcontracted to or materials purchased from other DBEs.

DBE Firm		
List Specific Bid Item Numbers or Products to be Supplied		Total Contract Dollar Value \$
Percent DBE will do with own equipment/forces =	%	If Regular Dealer, X 60% = \$
Percent Non-DBE will do (trucking only) =	%	

DBE Firm		
List Specific Bid Item Numbers or Products to be Supplied		Total Contract Dollar Value \$
Percent DBE will do with own equipment/forces =	%	If Regular Dealer, X 60% = \$
Percent Non-DBE will do (trucking only) =	%	

DBE Firm		
List Specific Bid Item Numbers or Products to be Supplied		Total Contract Dollar Value \$
Percent DBE will do with own equipment/forces =	%	If Regular Dealer, X 60% = \$
Percent Non-DBE will do (trucking only) =	%	

**FORM A (continued)**

DBE Firm			
List Specific Bid Item Numbers or Products to be Supplied			Total Contract Dollar Value \$
Percent DBE will do with own equipment/forces	=	%	If Regular Dealer, X 60% = \$
Percent Non-DBE will do (trucking only)	=	%	

DBE Firm			
List Specific Bid Item Numbers or Products to be Supplied			Total Contract Dollar Value \$
Percent DBE will do with own equipment/forces	=	%	If Regular Dealer, X 60% = \$
Percent Non-DBE will do (trucking only)	=	%	

DBE Firm			
List Specific Bid Item Numbers or Products to be Supplied			Total Contract Dollar Value \$
Percent DBE will do with own equipment/forces	=	%	If Regular Dealer, X 60% = \$
Percent Non-DBE will do (trucking only)	=	%	

DBE Firm			
List Specific Bid Item Numbers or Products to be Supplied			Total Contract Dollar Value \$
Percent DBE will do with own equipment/forces	=	%	If Regular Dealer, X 60% = \$
Percent Non-DBE will do (trucking only)	=	%	

DBE Firm			
List Specific Bid Item Numbers or Products to be Supplied			Total Contract Dollar Value \$
Percent DBE will do with own equipment/forces	=	%	If Regular Dealer, X 60% = \$
Percent Non-DBE will do (trucking only)	=	%	

DBE Firm			
List Specific Bid Item Numbers or Products to be Supplied			Total Contract Dollar Value \$
Percent DBE will do with own equipment/forces	=	%	If Regular Dealer, X 60% = \$
Percent Non-DBE will do (trucking only)	=	%	

DBE Firm			
List Specific Bid Item Numbers or Products to be Supplied			Total Contract Dollar Value \$
Percent DBE will do with own equipment/forces	=	%	If Regular Dealer, X 60% = \$
Percent Non-DBE will do (trucking only)	=	%	

**Use additional pages, following the same format, if necessary.**

The NDDOT DBE Liaison Officer can be contacted at: CIVIL RIGHTS DIVISION  
 ND DEPARTMENT OF TRANSPORTATION  
 608 E BOULEVARD AVE  
 BISMARCK ND 58505-0700

dlaub@nd.gov  
 phone (701) 328-2576  
 fax (701) 328-1965, (701) 328-0343

BID ITEMS

Project: BRO-0051(020) (PCN-20373)

**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	201	0330	CLEARING & GRUBBING	L SUM	1.				
003	202	0105	REMOVAL OF STRUCTURE	L SUM	1.				
004	202	0137	REMOVAL OF PAVEMENT	SY	1,905.				
005	202	0153	SAW BITUMINOUS SURFACING-FULL DEPTH	LF	70.				
006	202	0312	REMOVE EXISTING FENCE	LF	1,071.				
007	203	0101	COMMON EXCAVATION-TYPE A	CY	2,253.				
008	203	0109	TOPSOIL	CY	559.				
009	203	0113	COMMON EXCAVATION-WASTE	CY	7,431.				
010	210	0109	CLASS 2 EXCAVATION-BOX CULVERT	EA	1.				
011	210	0201	FOUNDATION PREPARATION	EA	1.				
012	210	0210	FOUNDATION FILL	CY	2,087.				
013	216	0100	WATER	M GAL	87.				
014	253	0201	HYDRAULIC MULCH	ACRE	1.800				
015	261	0112	FIBER ROLLS 12IN	LF	1,399.				
016	261	0113	REMOVE FIBER ROLLS 12IN	LF	1,399.				

BID ITEMS

Project: BRO-0051(020) (PCN-20373)

**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	302	0120	AGGREGATE BASE COURSE CL 5	TON	2,226.				
018	401	0050	TACK COAT	GAL	120.				
019	401	0060	PRIME COAT	GAL	650.				
020	430	0043	SUPERPAVE FAA 43	TON	586.				
021	430	1000	CORED SAMPLE	EA	3.				
022	430	5828	PG 58-28 ASPHALT CEMENT	TON	35.				
023	606	3414	DBL 14FT X 14FT PRECAST RCB CULVERT	LF	96.				
024	606	7414	DBL 14FT X 14FT PRECAST RCB END SECTION	EA	2.				
025	702	0100	MOBILIZATION	L SUM	1.				
026	704	0100	FLAGGING	MHR	40.				
027	704	1000	TRAFFIC CONTROL SIGNS	UNIT	522.				
028	704	1052	TYPE III BARRICADE	EA	6.				
029	704	1060	DELINEATOR DRUMS	EA	80.				
030	708	1020	RIPRAP-LOOSE ROCK	CY	495.				
031	708	5651	ECB TYPE 2	SY	232.				
032	709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	996.				

BID ITEMS

Project: BRO-0051(020) (PCN-20373)

**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	709	0155	GEOSYNTHETIC MATERIAL TYPE RR	SY	1,083.				
034	714	4099	PIPE CONDUIT 18IN-APPROACH	LF	98.				
035	714	4110	PIPE CONDUIT 30IN	LF	62.				
036	720	0130	IRON PIN R/W MONUMENTS	EA	9.				
037	752	0320	FENCE BARBED WIRE 4 STRAND-STEEL POST	LF	942.				
038	752	3140	CORNER ASSEMBLY BARBED WIRE	EA	11.				
039	754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	25.100				
040	754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	60.				
041	754	0592	RESET SIGN PANEL	EA	2.				
042	754	0803	OBJECT MARKERS - TYPE III	EA	4.				
043	754	0805	OBJECT MARKERS - CULVERTS	EA	2.				
044	762	1104	PVMT MK PAINTED 4IN LINE	LF	1,238.				
045	766	0100	MAILBOX-ALL TYPES	EA	2.				
046	970	2050	COMMON HACKBERRY	EA	78.				
047	970	2330	BUR OAK	EA	70.				
048	970	2470	DISCOVERY ELM	EA	65.				



**PROPOSAL FORM**

North Dakota Department of Transportation

**BID OPENING: April 10, 2015**

**Job 005**

Page 11 of 12

Rev: 3/31/2015

**Project:** BRO-0051(020) (PCN-20373)

**Type of Work:** REMOVAL OF STRUCTURE, REINFORCED CONCRETE BOX CULVERT, GRADING, DRAINAGE, SURFACING, AND INCIDENTALS

**County:** WARD

**Length:** 0.0990 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 07/01/2016. 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.



STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0051(020)	6	1

**NOTES**

**100-P01 WEEKLY PLANNING/REPORTING MEETING:** Organize a weekly meeting to coordinate efforts between subcontractors, utilities, local authorities, and others.

Send a knowledgeable representative to conduct the weekly reporting/planning meeting. Prepare minutes for each meeting and make the appropriate distribution of the minutes. Have the minutes approved by the Engineer before distribution.

Provide a written schedule of the next week's work and a tentative schedule of the following week. Include a discussion of problems encountered during the current week; also include information of interest to local authorities, subcontractors, and utilities.

Invite interested agencies to the meeting. Include the following agencies and any other agencies that are necessary:

- a. Ward County
- b. NDDOT
- c. Police, Sheriff, and Highway Patrol Departments
- d. Fire Department
- e. Ambulance Service
- f. Affected Utilities
- g. Subcontractors
- h. Project Representative/Inspector

**100-P02 WINTER SUSPENSION:** Asphalt paving, seeding, and tree planting will be permitted the following spring. All other items shall be completed prior to winter suspension. Prior to winter suspension, the aggregate base course shall be sealed with a prime coat application. The aggregate base shall be regarded prior to paving the following construction season. The cost to regard the aggregate base shall be included in the price bid for other items.

**105-P01 UTILITIES:** Utility locations shown on the plans are approximate. It will be the Contractor's responsibility to contact all utilities for verification of locations prior to construction in any area. If underground conflicts are found, they will be addressed by the impacted utility company.

Known impacted utilities include a Midcontinent cable, SRT cable, Verendyre overhead electric, and City of Minot sanitary sewer trunk line. It is required that the sanitary sewer trunk line be relocated or taken out of service prior to any work on the precast concrete box culvert. The sanitary sewer trunk line will be relocated as a separate project by the City of Minot. The portion that conflicts with the precast concrete box installation is anticipated to be relocated prior to September 1, 2015.

The Contractor shall coordinate their work with the utility companies' relocation efforts.

**107-710 HAUL ROAD RESTRICTIONS:** 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"

**201-P01 CLEARING AND GRUBBING:** Clearing and grubbing includes the removal of trees and brush within the right of way and permanent easement as needed to construct the project. Removal of trees and brush will not be paid for separately but shall be included in the price bid for "Clearing and Grubbing".

**202-P01 REMOVAL OF STRUCTURE:** The existing structure is a 32 foot long bridge consisting of concrete channel beams and concrete abutments. The structure also includes a concrete barrier wall, guardrail, a timber plank wing wall extension, and conduit for utilities that are to be removed as part of the structure. All salvaged material shall become property of the Contractor and disposed of off the right of way. The Contractor shall arrange for and secure a suitable disposal site including any permits and site releases for the disposal site(s). Any piling not fully removed shall be cut off at a minimum of one foot below the class 2 excavation limits. All costs for the removal and disposal of the structure shall be included in the price bid for "Removal of Structure".

**202-P02 REMOVAL OF EXISTING FENCE:** If the existing fence is removed prior to the installation of the permanent fence, the Contractor shall be responsible for a temporary fence to maintain closure of the pasture lands unless an agreement is made with the landowner to install permanent fence after the removal of the existing fence. All costs to install and maintain the temporary fence will not be paid for separately but shall be included in the price bid for "Remove Existing Fence" and "Fence Barbed Wire 4 Strand".

**202-P03 REMOVAL OF EXISTING SEWER PIPE:** Sewer pipe that has been previously abandoned in place shall be removed if encountered. All costs to remove and backfill the area shall be included in the price bid for other items.

**203-010 SHRINKAGE:** 25 percent additional volume is included for shrinkage in earth embankment.

**203-P01 TOPSOIL:** All topsoil shall be salvaged. Removal of topsoil is based upon a 4" depth. The topsoil shall be removed to its full depth and stockpiled. Upon completion of the work in these areas, the topsoil shall be spread evenly over the areas to be seeded. All work as described above shall be paid for at plan quantity for "Topsoil".

**203-P02 EXCAVATION AND FILL ELEVATIONS:** All ditch grades and contours are given at the top of the topsoil. Proposed centerline elevations indicated in Section 60 are top of asphalt, concrete, or finished surface.

**203-P03 COMMON EXCAVATION:** Measurement of Common Excavation shall be in accordance with Section 203.03B of the NDDOT Standard Specifications (Plan Quantity).

**203-P04 CONTRACTOR FURNISHED BORROW:** All borrow excavation shall be contractor furnished. The Contractor shall obtain the proper clearance for contractor furnished borrow per NDDOT Standard Specification 107.05.

**203-P05 COMPACTION CONTROL:** Placement of embankment shall be in accordance with Section 203.04 E.2 of the NDDOT Standard Specifications.

**210-P01 FOUNDATION FILL:** The aggregate for foundation fill shall meet NDDOT Standard Specifications. In addition, 2" of bedding sand shall be placed as a leveling course under the box culvert and is included in the depth of foundation fill. Moisture and density controls for the aggregate shall be in accordance with Section 203.04 E.2 of the NDDOT Standard Specifications.

This document was originally issued and sealed by Timothy Arens Registration Number PE-7698 on 03/30/15 and the original document is stored at the office of the Ward County Highway Department.

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0051(020)	6	2

**NOTES**

**210-P02 FOUNDATION PREPARATION:** The Bidder shall be aware of the possible inundated conditions at this site before the bid opening. The cost of any cofferdams, dewatering the excavation and all measures required to maintain flow shall be included in the price bid for "Foundation Preparation".

**210-P03 STRUCTURAL EXCAVATION:** All excavation required to construct the box culvert shall be included in the price bid for "Class 2 Excavation – Box Culvert".

**251-P01 SEED MIX:** The wetland mitigation areas shall use the wetland seed mix per Section 251.03F of the NDDOT Standard Specifications. All other areas shall use a class II seed mix per Section 251.03D of the NDDOT Standard Specifications. Contractor shall provide a one year warranty on seeded areas. Acceptance will be determined by 70% coverage at one year.

**253-P01 HYDRAULIC MULCH:** Hydraulic mulch and seed shall be applied in a single application. All cost for labor, equipment and materials necessary to complete the work, including the seed, shall be included in the price bid for "Hydraulic Mulch".

**430-P01 ASPHALT PAVING:** Should the asphalt surface show any microcracking after final paving operations, the Contractor shall fog seal all asphalt surfaces. All cost for labor, equipment, and materials to complete the work shall be included in the price bid for "Superpave FAA 43".

**606-P01 PRECAST REINFORCED CONCRETE BOX CULVERT:**

1. The structure shall consist of one double 14' x 14' box culvert. The Contractor is responsible for the design of the precast box culvert and end sections. Shop drawings submitted to the Engineer shall be stamped by a professional engineer licensed in the state of North Dakota.
2. Box sections shall be secured to one another by use of tie bolts. The joints shall be sealed with a flexible, watertight, preformed mastic meeting AASHTO M 220. In addition to the joint sealant, geosynthetic material shall be placed per Section 606.06 E.3 of the NDDOT Standard Specifications.
3. The end section shall have straight walls and allow a 12" by 12" parapet to be installed at the end of the barrel portion. A cutoff wall shall be installed as shown on the plans.
4. All costs associated with the items shall be included in the price bid for "14FT x 14FT Precast RCB Culvert" and "14FT x 14FT Precast RCB End Section".

**704-P01 WORK ZONE TRAFFIC CONTROL:** Traffic control shall be in accordance with Section 704 of the NDDOT Standard Specifications and related Standard Drawings. The roadway shall remain open to traffic until the final connections to the new roadway are required. Closure of the roadway shall be limited to normal working hours and established as shown in Section 100. Normal working hours are 7:00 A.M. to 8:00 P.M., Monday through Saturday.

**704-P02 TRAFFIC CONTROL PLAN:** The Contractor shall submit a detailed traffic control plan two weeks prior to starting construction. The plan shall include details for road closures and shall be approved by the Engineer prior to starting construction. The plan shall be updated and resubmitted at the request of the Engineer. All costs associated with providing and maintaining the traffic control plan shall be included in the price bid for other items.

**704-P03 MAINTAINING ACCESS:** Access to residents shall be maintained at all times.

**708-P03 EROSION CONTROL:** Temporary erosion control consisting of fiber rolls shall be installed prior to disturbing the topsoil. Additional fiber rolls shall be installed in ditches during construction operations and will be considered temporary erosion control measures. Following the installation of topsoil, fiber rolls shall be installed in the ditches and on fill slopes and will be considered permanent erosion control measures.

**708-P03 RIPRAP – LOOSE ROCK:** Any excavation required to place the riprap shall be incidental to the price bid for "Riprap – Loose Rock".

**708-P04 ECB TYPE 2:** Erosion control blanket shall be installed where slopes are steeper than 3H:1V, including along the wing walls and areas shown on section 75. Additional areas may be designated as determined by the Engineer.

**766-P01 MAILBOXES:** Existing mailboxes along the roadway will need to be temporarily relocated as work progresses. Existing mailbox assemblies that do not meet NCHRP 350 or MASH must be reset beyond the clear zone or replaced with an assembly that meets the requirements of Section 766 "Mailboxes" and standard Drawing 766-01. Mailbox assemblies that meet NCHRP 350 or MASH requirements may be reset adjacent to the roadway.

Include the cost for temporarily relocating mailbox assemblies in the contract unit price for "Mailbox – All Types".

**709-P01 GEOSYNTHETIC MATERIAL TYPE RR:** Separation material shall be installed under the Rock Riprap.

**970-P01 TREE MITIGATION:** All trees to be planted shall be bare root, nursery stock trees of the species indicated in the plans. Trees shall be spaced 7' apart and planted per NDSU Extension Service publication H531 Planting Trees and Shrubs. Trees may be planted in the spring. The contractor shall provide a one-year warranty on all trees.

This document was originally issued and sealed by Timothy Arens Registration Number PE-7698 on 03/30/15 and the original document is stored at the office of the Ward County Highway Department.

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0051(020)	8	1

**ESTIMATE OF QUANTITIES**

SPEC	CODE	ITEM DESCRIPTION	UNIT	QUANTITY
103	0100	CONTRACT BOND	L SUM	1
201	0330	CLEARING & GRUBBING	L SUM	1
202	0105	REMOVAL OF STRUCTURE	L SUM	1
202	0137	REMOVAL OF PAVEMENT	SY	1905
202	0153	SAW BITUMINOUS SURFACING-FULL DEPTH	LF	70
202	0312	REMOVE EXISTING FENCE	LF	1071
203	0101	COMMON EXCAVATION-TYPE A	CY	2253
203	0109	TOPSOIL	CY	559
203	0113	COMMON EXCAVATION-WASTE	CY	7431
210	0109	CLASS 2 EXCAVATION - BOX CULVERT	EA	1
210	0201	FOUNDATION PREPARATION	EA	1
210	0210	FOUNDATION FILL	CY	2087
216	0100	WATER	M GAL	87
253	0201	HYDRAULIC MULCH	ACRE	1.8
261	0112	FIBER ROLLS 12IN	LF	1399
261	0113	REMOVE FIBER ROLLS 12IN	LF	1399
302	0120	AGGREGATE BASE COURSE CL 5	TON	2226
401	0050	TACK COAT	GAL	120
401	0060	PRIME COAT	GAL	650
430	0043	SUPERPAVE FAA 43	TON	586
430	5828	PG 58-28 ASPHALT CEMENT	TON	35
430	1000	CORED SAMPLE	EA	3
606	3414	DBL 14FT X 14FT PRECAST RCB CULVERT	LF	96
606	7414	DBL 14FT X 14FT PRECAST RCB END SECTION	EA	2
702	0100	MOBILIZATION	L SUM	1
704	0100	FLAGGING	MHR	40
704	1000	TRAFFIC CONTROL SIGNS	UNIT	522
704	1052	TYPE III BARRICADE	EA	6
704	1060	DELINEATOR DRUMS	EA	80
708	1020	RIPRAP-LOOSE ROCK	CY	495
708	5651	ECB TYPE 2	SY	232
709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	996
709	0155	GEOSYNTHETIC MATERIAL TYPE RR	SY	1083
714	4099	PIPE CONDUIT 18IN-APPROACH	LF	98
714	4110	PIPE CONDUIT 30IN	LF	62
720	0130	IRON PIN R/W MONUMENTS	EA	9
752	0320	FENCE BARBED WIRE 4 STRAND-STEEL POST	LF	942
752	3140	CORNER ASSEMBLY BARBED WIRE	EA	11
754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	25.1
754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	60
754	0592	RESET SIGN PANEL	EA	2
754	0803	OBJECT MARKERS TYPE III	EA	4
754	0805	OBJECT MARKERS - CULVERTS	EA	2
762	1104	PVMT MK PAINTED 4IN LINE	LF	1238
766	0100	MAILBOX-ALL TYPES	EA	2
970	2050	COMMON HACKBERRY	EA	78
970	2330	BUR OAK	EA	70
970	2470	DISCOVERY ELM	EA	65
970	2472	PRINCETON ELM	EA	65

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0051(020)	10	1

### BASIS OF ESTIMATE

**Material:**

- Aggregate Base CL 5 @ 1.875 Ton/CY
- SuperPave FAA 43 @ 2.000 Tons/CY
- PG 58-28 @ 6% of SuperPave FAA 43
- Tack Coat @ 0.05 Gal/SY
- Prime Coat @ 0.25 Gal/SY

**Water:**

- 20 MGal for Dust Palliative
- 10 Gal/CY of embankment quantity for earthwork
- 20 Gal/Ton of Aggregate Base Course

**Earthwork Summary:**

		Pay Items		
A	B	C	(=B)	(A-B-C)
Total Excavation	Embankment Required	Class 2 Excavation – Box Culvert	Common Excavation – Type A	Common Excavation - Waste
11293 CY	2253 CY	1609 CY*	2253 CY	7431 CY

\*Paid as 1 EA

**Topsoil:**

- Topsoil Quantity – 559 CY
- Topsoil excavation based on salvaging 4".

**Shrinkage:**

25% additional quantity has been added to Common Excavation –Type A to account for shrinkage.

**Erosion Control Measures:**

An additional 500 linear feet of 12" Fiber Rolls have been provided to be used at the discretion of the Project Engineer.

**Right of Way Monuments:**

Iron Pin R/W Monuments			
Station	Offset	Station	Offset
301+77.18	40.15' RT	303+38.07	61.83' RT
301+77.24	30.15' RT	306+28.31	170.54' RT
302+13.75	46.87' RT	309+04.80	107.84' RT
302+13.78	40.35' RT	309+05.41	46.28' RT
302+57.72	45.53' RT		

**Cored Sample:**

HBP Cored Samples							
	A	B	C	D			
Specification Section	Lanes	Lifts	Distance (Feet)	Sublots (A x B x C)÷2000	Quantity (D x 2)	Quantity (1 per mile)	Unit
430.04 I.2.b(1), "General"	2	2	475	1	2	N/A	EA
430.04 I.2.b(2), "Pavement Thickness Determination Cores"					N/A	1	EA
				Total	2	1	EA

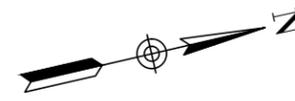
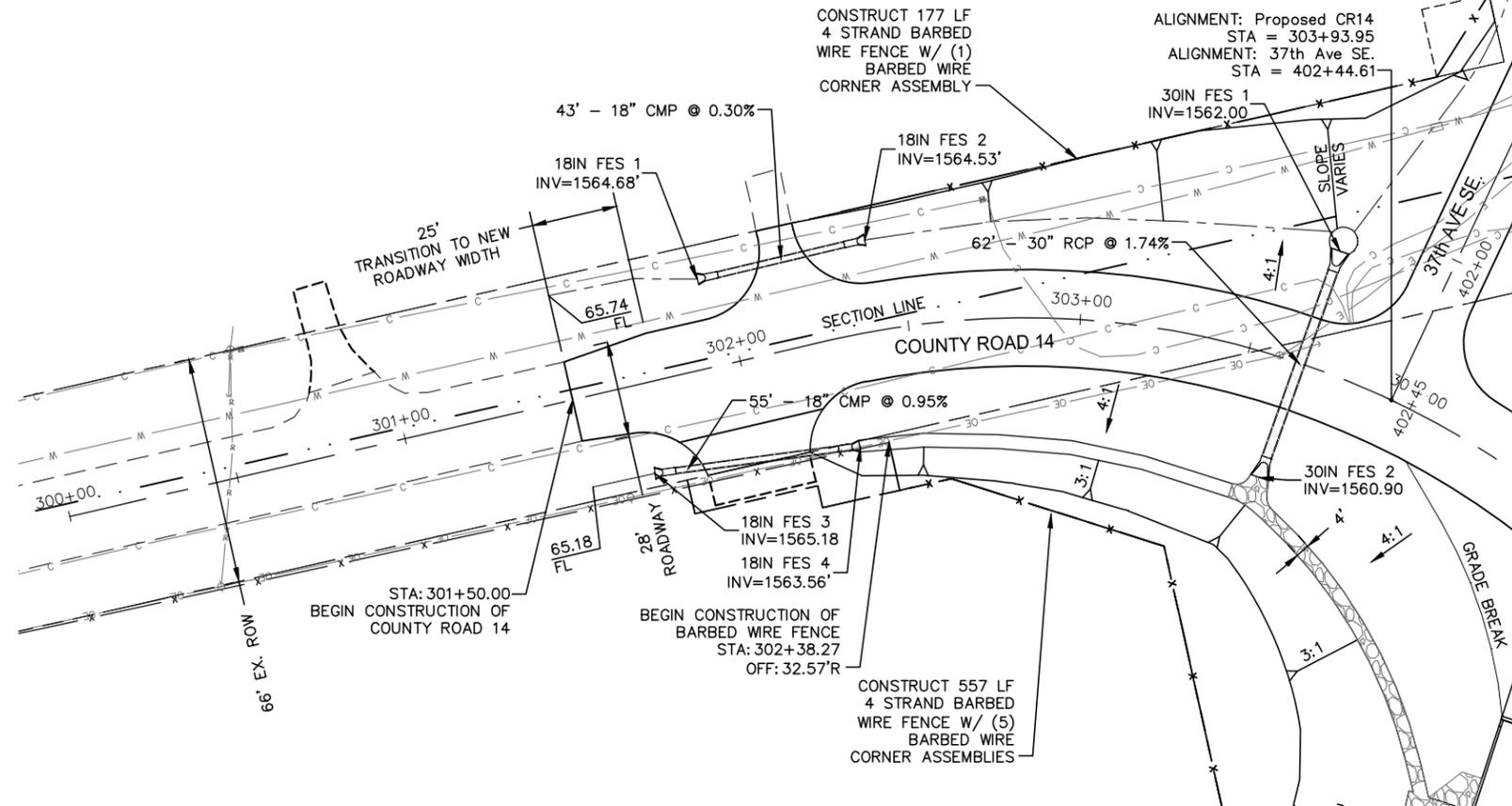
**Mailboxes:**

Station	Offset	Quantity (EA)
302+01.69	LT	1
305+42.38	LT	1

This document was originally issued and sealed by Timothy Arens Registration Number PE-7698 on 03/30/15 and the original document is stored at the office of the Ward County Highway Department.

Revised 3/30/15

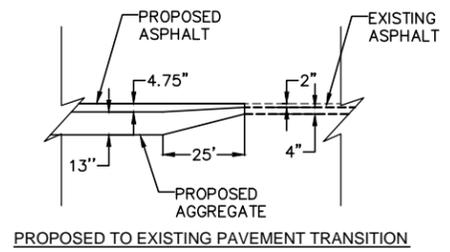
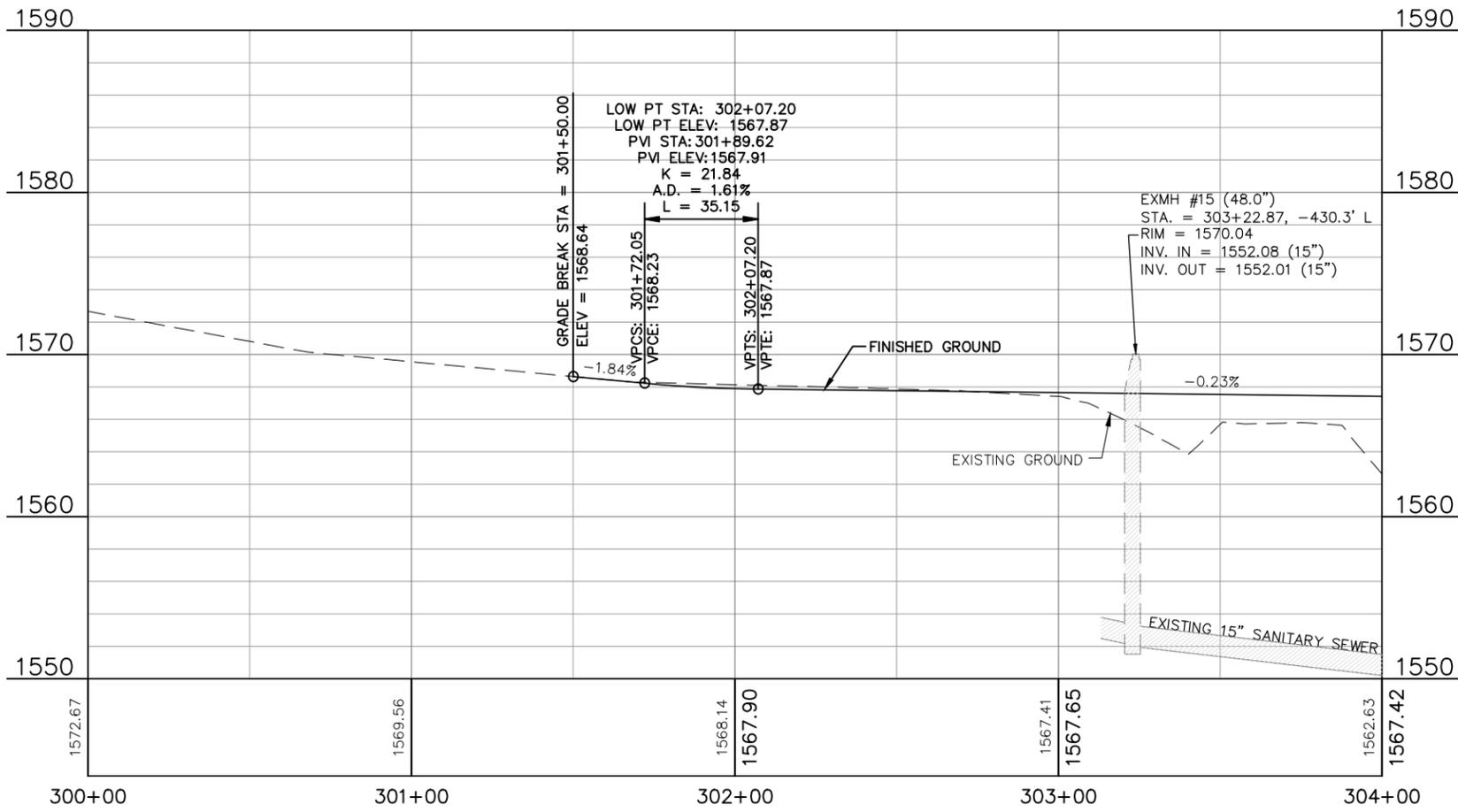
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0051(020)	60	1



**LEGEND**

- EXISTING ROW
- - - EXISTING SECTION LINE
- EXISTING ASPHALT
- EXISTING GRAVEL
- x - EXISTING FENCE
- - - TEMP EASEMENT
- PERMANENT EASEMENT
- PROPOSED ROW
- x - PROPOSED FENCE
- ▨ PROPOSED STORM SEWER

Description	Spec #	Code #	Qty	Unit
Aggregate Base Course CL 5 Sta 301+50 to 306+75	302	0120		2012 TON
Super Pave FAA 43 Sta 301+50 to 306+75	408	0803		488 TON
PG 58-28 Asphalt Cement Sta 301+50 to 306+50	408	0445		29 TON
Pipe Conduit 18in Approach Sta 301+68.51 to 302+28.38	714	4099		55 LF
Pipe Conduit 18in Approach Sta 301+93.23 to 302+41.61				43 LF
Pipe Conduit 30in Sta 303+65.85 to 303+64.72	714	4099		62 LF
Barbed Wire 4 Strand Sta 303+56.54 to 304+96.68	752	0320		557 LF
Barbed Wire 4 Strand Sta 302+36.87 to 303+73.42				177 LF
Corner Assembly Barbed	752	3140		7 EA



This document was originally issued and sealed by  
**Timothy Arens**  
 Registration Number  
**PE-7698**  
 on 03/30/15 and the original document is stored at the office of the Ward County Highway Department.

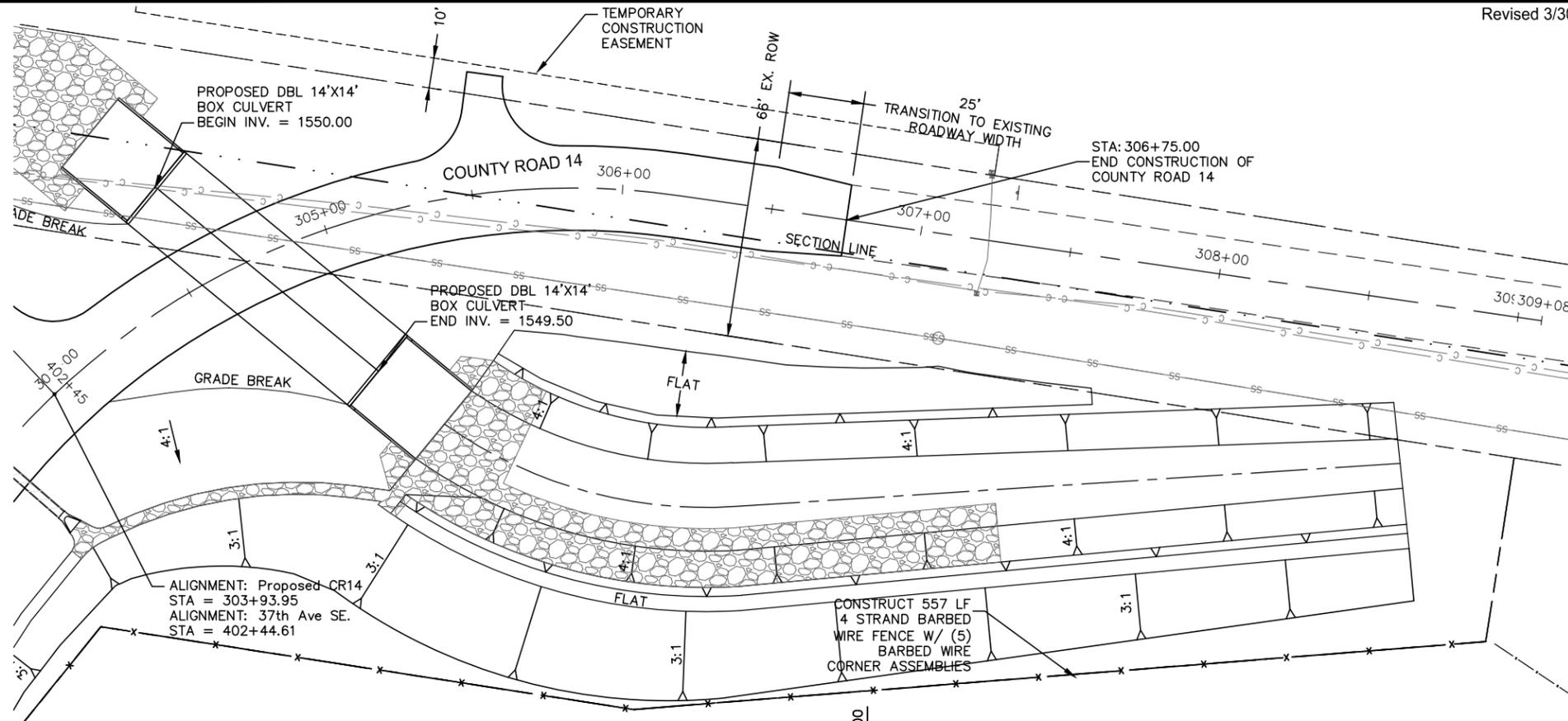
**ACKERMAN ESTVOLD**  
 1907 17th Street Southeast · Minot, ND 58701  
 701.837.8737 · www.ackerman-estvold.com  
 Minot, ND | Williston, ND

SCALE (H): 1"=50'	25 0 25 50
SCALE (V): 1"=10'	

Road Improvements  
 County Road 14  
 Ward County, North Dakota  
 County Road 14 Plan & Profile  
 STA: 300+00 - 304+00

Revised 3/30/15

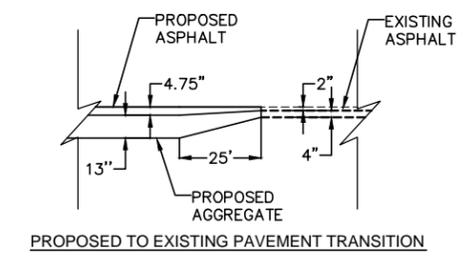
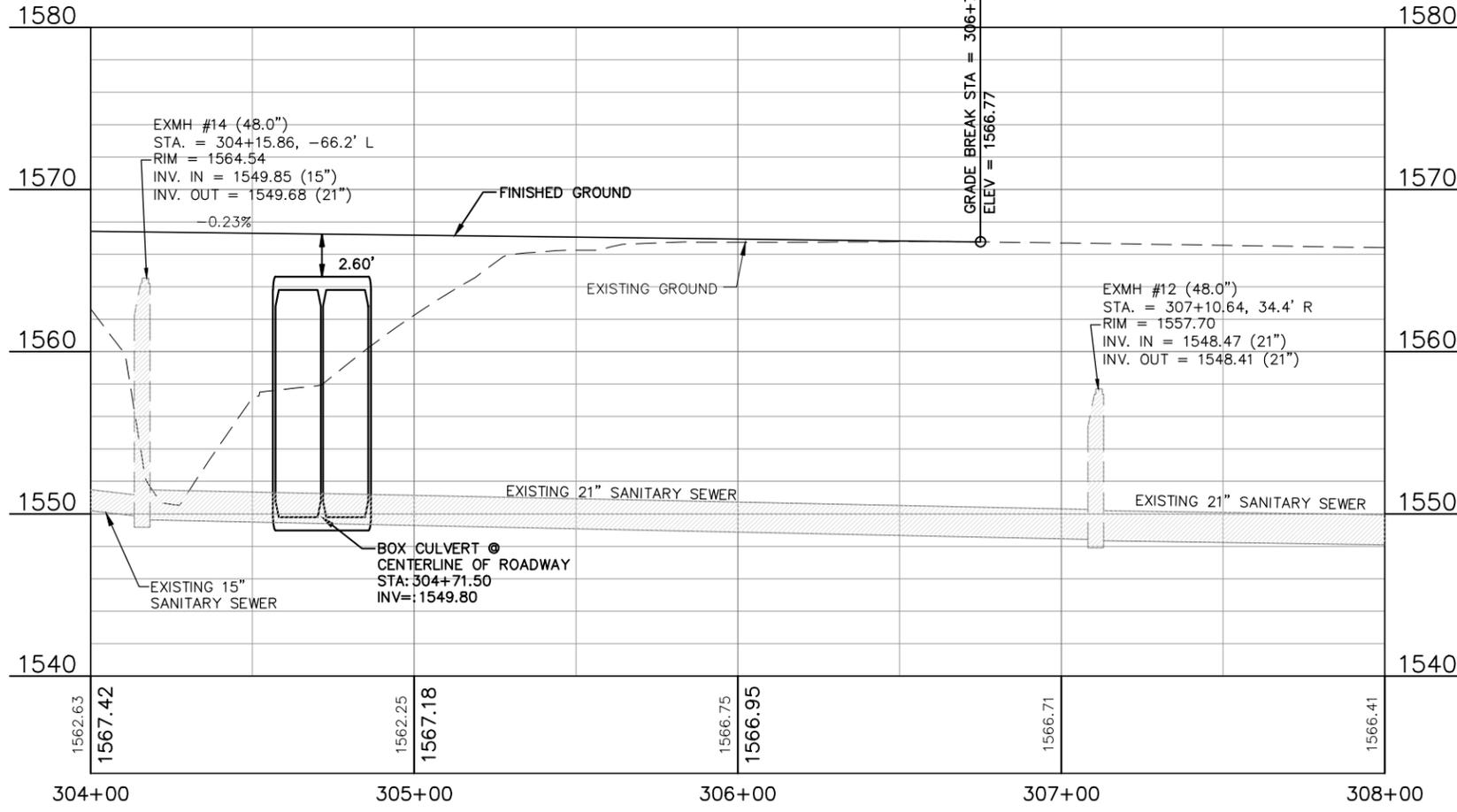
STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0051(020)	60	2



**LEGEND**

- EXISTING ROW
- EXISTING SECTION LINE
- EXISTING ASPHALT
- EXISTING GRAVEL
- EXISTING FENCE
- TEMP EASEMENT
- PERMANENT EASEMENT
- PROPOSED ROW
- PROPOSED FENCE
- PROPOSED STORM SEWER

NOTE: SEE SECTION 60 SHEET 1 FOR COUNTY ROAD QUANTITIES



This document was originally issued and sealed by  
 Timothy Arens  
 Registration Number  
 PE-7698  
 on 03/30/15 and the original document is stored at the office of the Ward County Highway Department.

**ACKERMAN ESTVOLD**  
 1907 17th Street Southeast · Minot, ND 58701  
 701.837.8737 · www.ackerman-estvold.com  
 Minot, ND | Williston, ND

SCALE (H): 1"=50'  
 SCALE (V): 1"=10'

Road Improvements  
 County Road 14  
 Ward County, North Dakota  
 County Road 14 Plan & Profile  
 Sta: 304+00 - 308+00

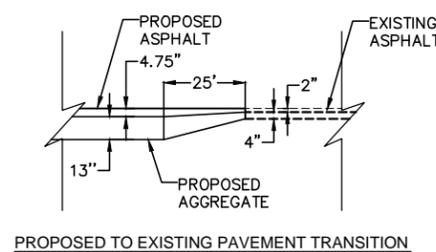
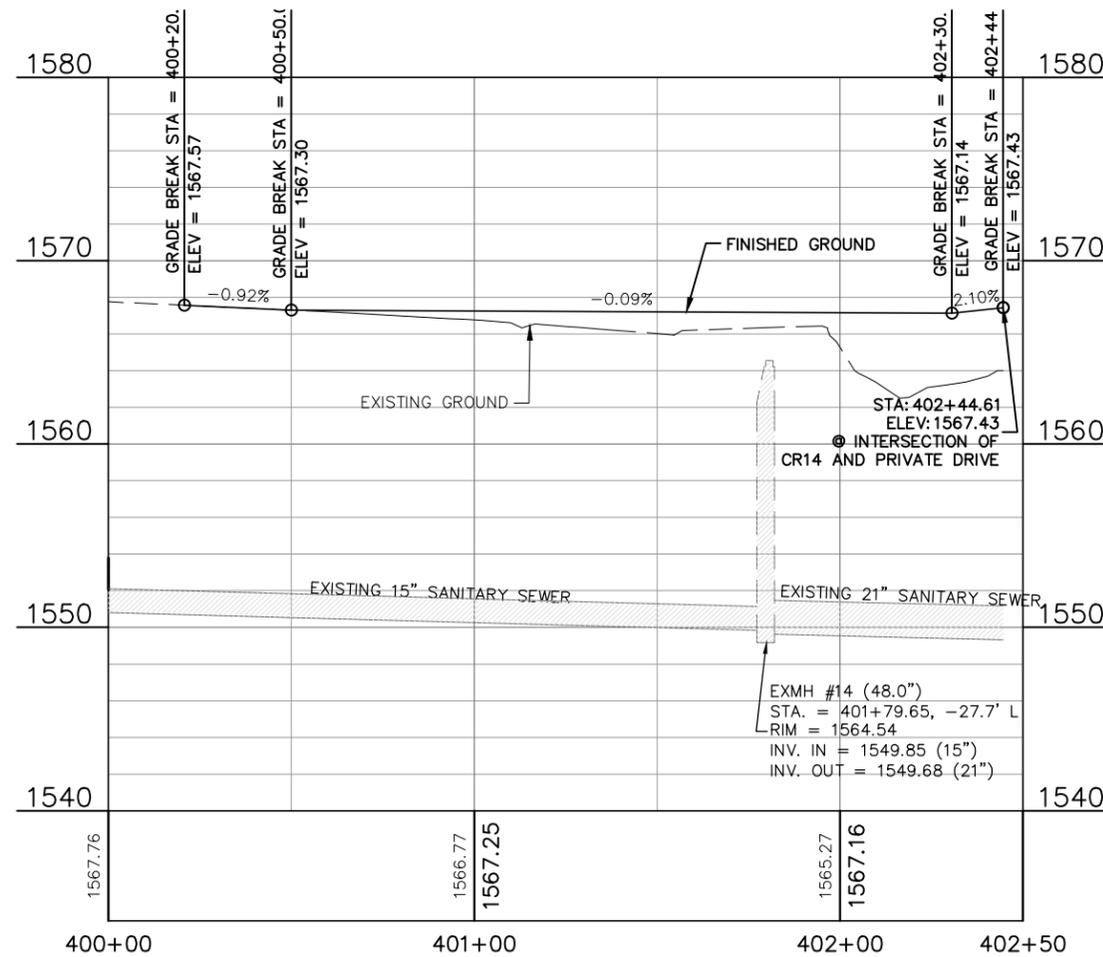
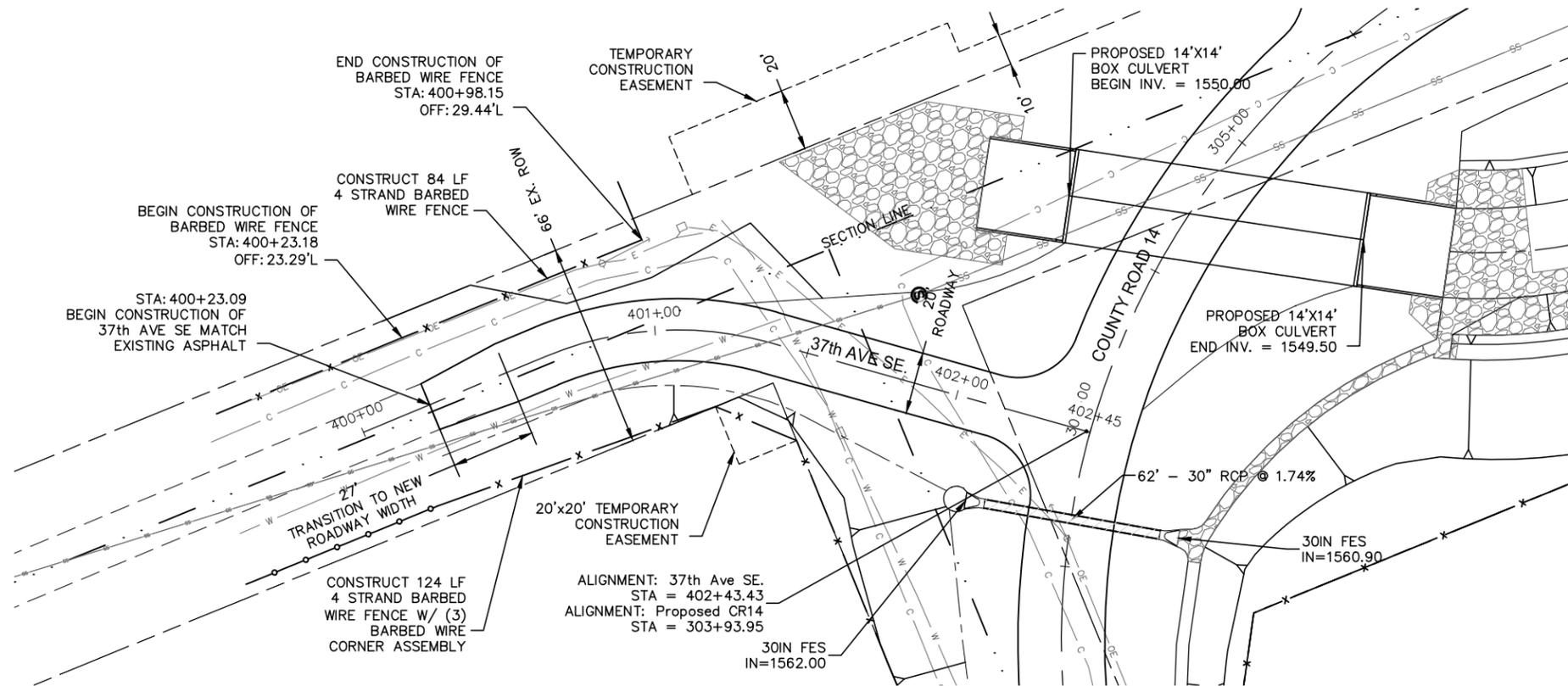
Revised 3/30/15

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	BRO-0051(020)	60	3



**LEGEND**

- EXISTING ROW
- EXISTING SECTION LINE
- EXISTING ASPHALT
- EXISTING GRAVEL
- x- EXISTING FENCE
- - - TEMP EASEMENT
- PERMANENT EASEMENT
- PROPOSED ROW
- x- PROPOSED FENCE
- /// PROPOSED STORM SEWER



Description	Spec #	Code #	Qty	Unit
Aggregate Base Course CL 5 Sta 400+23.09 to 402+30.61	302	0120	214	TON
Super Pave FAA 43 Sta 400+23.09 to 402+30.61	408	0803	98	TON
PG 58-28 Asphalt Cement Sta 301+50 to 304+00	408	0445	6	TON
Barbed Wire 4 Strand Sta 400+23.18 to 400+98.15 Sta 400+12.93 to 401+54.21	752	0320	84 124	LF LF
Corner Assembly Barbed	752	3140	4	EA

This document was originally issued and sealed by  
 Timothy Arens  
 Registration Number PE-7698  
 on 03/30/15 and the original document is stored at the office of the Ward County Highway Department.

**ACKERMAN ESTVOLD**  
 1907 17th Street Southeast · Minot, ND 58701  
 701.837.8737 · www.ackerman-estvold.com  
 Minot, ND | Williston, ND



Road Improvements  
 County Road 14  
 Ward County, North Dakota  
 37th Ave SE. Plan & Profile  
 Sta: 400+00 - 405+50

Revised 3-30-15

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
N.D.	BRO-0051(020)	110	1

Sta/RP	Sign No.	Assembly No.	Flat Sheet For Signs		Sign Support Length				Support Size	Max Post Len LF	Sleeve Length				Sleeve Size	Anchor EA	Anchor LF	Anchor Size	Reset Sign Panel EA	Reset Sign Support EA	Break-Away EA	Comments
			IV SF	XI SF	1st LF	2nd LF	3rd LF	4th LF			1st LF	2nd LF	3rd LF	4th LF								
301+27 Rt	W1-2	19	6.3	11.3					2.25 x 2.25 12 ga	11.6					1	4	2.5 x 2.5 12 ga					
307+19 Lt	W1-2	19	6.3	11.3					2.25 x 2.25 12 ga	11.6					1	4	2.5 x 2.5 12 ga					
402+16 Rt	R1-1	2	7.5	10.5					2.5 x 2.5 12 ga	12.1					1	4	3 x 3 7 ga					Existing Street Signs to be Mounted on Stop Sign
402+16. Rt																		2				Reset Street Signs on Stop Sign Assembly
EB CR 14 Lt	R2-1	9	5.0	10.5					2 x 2 12 ga	11.5					1	4	2.25 x 2.25 12 ga					
<b>Sub Total</b>			0.0	25.1						<b>Total 43.5</b>					<b>Total 16</b>			2	0	0		
<b>Grand Total</b>			0.0	25.1						<b>Total 43.5</b>					<b>Total 16</b>			2	0	0		

Basis of Estimate  
Sign Support Lengths

The sign support lengths have been calculated using the following vertical clearances:

Rural Roadway - 60"

This document was originally issued and sealed by Timothy Arens Registration Number PE-7698 on 03/30/15 and the original document is stored at the office of the Ward County Highway Department.

Sign Summary  
Perforated Tube  
Ward County Road 14 Bridge Replacement