



North Dakota Department of Transportation

Grant Levi, P.E.
Director

Jack Dalrymple
Governor

November 6, 2014

ADDENDUM 1 – JOB 46

TO: All prospective bidders on project CNOA-0103(053), Job No. 46 scheduled for the November 14, 2014 bid opening.

The following plan and proposal revisions shall be made:

Plan Revisions and Revision to Agreement Between Owner and Contractor for Construction Contract:

See attached letter dated Nov 5, 2014 from Charles A. Olson – Endeavor Engineering for an explanation.

Request For Proposal Revisions:

Remove and replace pages 5 and 6 of 8 of the Proposal Form pages located at the beginning of the Request For Proposal, with the enclosed page revised 11/6/14.

Page 5 of 8:

- Item 302 0113 AGGREGATE BASE COURSE CL 3, quantity 450 TON, has been deleted.
- Item 302 0114 AGGREGATE BASE COURSE CL 3, quantity 525 CY, has been added.
- Item 401 0050 TACK COAT, quantity 1,800 GAL, has been added.
- Item 401 0150 SS1H OR CSS1H OR MS1 EMULSIFIED ASPHALT, quantity 1,800 GAL, has been deleted.
- Item 430 0500 COMMERCIAL GRADE HOT MIX ASPHALT, quantity has increased from 2,200 to 2,522 TON.
- Item 430 5828 PG 58-28 ASPHALT CEMENT, quantity has increased from 150 to 165 TON.

Page 6 of 8:

- Item 722 6200 ADJUST MANHOLE, quantity 5 EA, has been added.
- Item 754 0112 FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING, quantity 25 SF, has been added.
- Item 754 0206 STEEL GALV POSTS-TELESCOPING PERFORATED TUBE, quantity 40 LF, has been added.

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.

For 

CAL J. GENDREAU – CONSTRUCTION SERVICES ENGINEER

80:dch

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



Endeavor Engineering

The Final Connection

November 5, 2014

ADDENDUM 1 – JOB 46

TO: All prospective bidders and suppliers on project CNOA-0103(053), Job 46 scheduled for the November 14, 2014 bid opening.

Plan Revisions:

Remove and replace the following sheets dated 11/3/2014:

- Sheet 6-1
- Sheet 8-1
- Sheet 10-1
- Sheet 90-1
- Sheet 90-2
- Sheet 90-3
- Sheet 90-4
- Sheet 90-5
- Sheet 90-6

Add the following standard DOT Sheets:

- D-704-9
- D-704-10
- D-704-11
- D-704-50
- D-722-5A
- D-754-26
- D-754-27
- D-754-29
- D-754-48
- D-762-04
- D-762-06

Sheet 6-1:

Add note 100-P06 PLANS AND ND DOT SPECIFICATIONS.
Add note 401-P01 TACK COAT.

Sheet 8-1:

Item 302 0113 AGGREGATE BASE COURSE CL3; Changed code to 0114 to be paid by the CY and not the ton.

Item 302 0113 AGGREGATE BASE COURSE CL3; quantity increased 75 CY.

Item 401 0150 SS1H OR CSS1H OR MSI EMULSIFIED ASPHALT; Changed code to 0050 and description to "TACK COAT".

Item 430 0500 COMMERCIAL GRADE HOT MIX ASPHALT; quantity increased 322 Ton.
Added Item 722 6200 ADJUST MANHOLE; 5 Ea.
Added Item 754 0112 FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING; 25 SF
Added Item 754 0206 STEEL GALV POSTS-TELESCOPING PERFORATED TUBE: 40 LF

Sheet 10-1:

Item Aggregate CL3: eliminated “@1.875 Ton/CY” and increased quantity to 100 CY per station
Permanent Pavement Marking: Centerline type changed from Preformed Patterned Pvmt MK 4
IN Line to Epoxy Pvmt MK 4 IN Line.
Short Term Pavement Marking basis added.

Sheet 90-1:

AGGREGATE BASE COURSE CL 3: quantity increased 12 CY
ADDED ITEM; ADJUST MANHOLE; 1 EA

Sheet 90-2:

AGGREGATE BASE COURSE CL 3: quantity increased 110 CY

Sheet 90-3:

AGGREGATE BASE COURSE CL 3: quantity increased 300 CY
ADDED ITEM; ADJUST MANHOLE; 1 EA

Sheet 90-4:

AGGREGATE BASE COURSE CL 3: quantity increased 100 CY
ADDED ITEM; ADJUST MANHOLE; 1 EA

Sheet 90-5:

ADDED ITEM; ADJUST MANHOLE; 1 EA

Sheet 90-6:

ADDED ITEM; ADJUST MANHOLE; 1 EA

Proposal Revisions:

Agreement between owner and Contractor for Construction Contract (Stipulated Price):
Replace entire document – changes are highlighted below

Pages 3 & 4 of 9 Article 5 – Contract Price

Item 202 0119 SAW CONCRETE was changed to 570 0095 SAW CONCRETE.

Item 302 0113 AGGREGATE BASE COURSE CL 3 was changed to 302 0114
AGGREGATE BASE COURSE CI 3 pay unit was changed from by the ton to by the
cubic yard. Quantity was updated to 525 CY.

Item 401 0150 SS1H OR CSS1H OR MS1 EMULSIFIED ASPHALT was changed to 401 0050 TACK COAT.

Item 408 0185 HOT BITUMINOUS PAVEMENT CL29 was changed to 430 0500 COMMERCIAL GRADE HOT MIX. Quantity was updated to be 2,522 ton.

Item 408 0445 PG 58-28 ASPHALT CEMENT was changed to 430 5828 PG 58-28 ASPHALT CEMENT. Quantity was updated to be 165 ton.

Item 708 1400 WEIGHTED FIBER ROLLS was changed to 261 0200 WEIGHTED FIBER.

Item 722 6200 ADJUST MANHOLE was added. Quantity added was 5 EA.

Item 754 0112 FLAT SHEET FOR SIGNS- TYPE IV REFL SHEETING was added. Quantity added was 25 SF.

Item 754 0206 STEEL GALV POSTS- TELESCOPING PERFORATED TUBE was added. Quantity added was 40 LF.

Pages 6 & 7 of 9 Article 9 – Contract Documents

Article 9.01.A.7

Drawings consisting of 46 sheets with each sheet bearing the following general title CNOA-0103(053) PCN 20468 was changed to Drawings consisting of 60 sheets with each sheet bearing the following general title CNOA-0103(053) PCN 20468.

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

Sincerely,



Charles A. Olsen
Engineer

Enclosure(s): Revised Plan Sheets
Project #: CNOA-010-(053)

BID ITEMS

Project: CNOA-0103(053) (PCN-20468)

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	0112	REMOVAL OF CONCRETE	SY	681.				
003	202	0130	REMOVAL OF CURB & GUTTER	LF	1,120.				
004	202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	2,125.				
005	203	0113	COMMON EXCAVATION-WASTE	CY	500.				
006	216	0100	WATER	M GAL	20.				
007	261	0200	WEIGHTED FIBER ROLLS	LF	160.				
008	302	0114	AGGREGATE BASE COURSE CL 3	CY	525.				
009	401	0050	TACK COAT	GAL	1,800.				
010	411	0105	MILLING PAVEMENT SURFACE	SY	4,200.				
011	430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	2,522.				
012	430	5828	PG 58-28 ASPHALT CEMENT	TON	165.				
013	570	0095	SAW CONCRETE	LF	275.				
014	702	0100	MOBILIZATION	L SUM	1.				
015	704	0100	FLAGGING	MHR	80.				
016	704	1000	TRAFFIC CONTROL SIGNS	UNIT	1,095.				

BID ITEMS

Project: CNOA-0103(053) (PCN-20468)

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	704	1050	TYPE I BARRICADE	EA	30.				
018	704	1052	TYPE III BARRICADE	EA	51.				
019	704	1067	TUBULAR MARKERS	EA	471.				
020	709	0701	GEOTEXTILE FABRIC-TYPE R1	SY	2,200.				
021	722	6200	ADJUST MANHOLE	EA	5.				
022	748	0140	CURB & GUTTER-TYPE I	LF	1,120.				
023	748	1030	VALLEY GUTTER 72IN	SY	275.				
024	750	0115	SIDEWALK CONCRETE 4IN	SY	720.				
025	750	1020	DRIVEWAY CONCRETE 8IN	SY	214.				
026	750	2115	DETECTABLE WARNING PANELS	SF	260.				
027	754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	25.				
028	754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	40.				
029	762	1104	PVMT MK PAINTED 4IN LINE	LF	7,600.				
030	762	1106	PVMT MK PAINTED 6IN LINE	LF	1,000.				
031	762	1124	PVMT MK PAINTED 24IN LINE	LF	600.				
			TOTAL SUM BID						

This document has important legal consequences; consultation with an attorney is encouraged with respect to its use or modification. This document should be adapted to the particular circumstances of the contemplated Project and the controlling Laws and Regulations.

SUGGESTED FORM OF AGREEMENT BETWEEN OWNER AND CONTRACTOR FOR CONSTRUCTION CONTRACT (STIPULATED PRICE)

Prepared by

ENGINEERS JOINT CONTRACT DOCUMENTS COMMITTEE

and

Issued and Published Jointly by



AMERICAN COUNCIL OF ENGINEERING COMPANIES

ASSOCIATED GENERAL CONTRACTORS OF AMERICA

AMERICAN SOCIETY OF CIVIL ENGINEERS

PROFESSIONAL ENGINEERS IN PRIVATE PRACTICE
A Practice Division of the
NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS

Endorsed by



CONSTRUCTION SPECIFICATIONS INSTITUTE

This Suggested Form of Agreement has been prepared for use with the Standard General Conditions of the Construction Contract (EJCDC C-700, 2007 Edition). Their provisions are interrelated, and a change in one may necessitate a change in the other. The language contained in the Suggested Instructions to Bidders (EJCDC C-200, 2007 Edition) is also carefully interrelated with the language of this Agreement. Their usage is discussed in the Narrative Guide to the 2007 EJCDC Construction Documents (EJCDC C-001, 2007 Edition).

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INTRODUCTION

This Suggested Form of Agreement between Owner and Contractor for Construction Contract (Stipulated Price) (“Agreement”) has been prepared for use with the Suggested Instructions to Bidders for Construction Contracts (“Instructions to Bidders”) (EJCDC C-200, 2007 Edition); the Suggested Bid Form for Construction Contracts (“Bid Form”) (EJCDC C-410, 2007 Edition); and the Standard General Conditions of the Construction Contract (“General Conditions”) (EJCDC C-700, 2007 Edition). Their provisions are interrelated, and a change in one may necessitate a change in the others. See also the Guide to the Preparation of Supplementary Conditions (EJCDC C-800, 2007 Edition), and the Narrative Guide to the 2007 EJCDC Construction Documents (EJCDC C-001, 2007 Edition).

This Agreement form assumes use of a Project Manual that contains the following documentary information for a construction project:

- Bidding Requirements, which include the advertisement or invitation to bid, the Instructions to Bidders, and the Bid Form that is suggested or prescribed, all of which provide information and guidance for all Bidders; and
- Contract Documents, which include the Agreement, performance and payment bonds, the General Conditions, the Supplementary Conditions, the Drawings, and the Specifications.

The Bidding Requirements are not Contract Documents because much of their substance pertains to the relationships prior to the award of the Contract and has little effect or impact thereafter, and because many contracts are awarded without going through the bidding process. In some cases, however, the actual Bid may be attached as an exhibit to the Agreement to avoid extensive rekeying. (The definitions of terms used in this Agreement, including “Bidding Documents,” “Bidding Requirements,” and “Contract Documents,” are set forth Article 1 of the General Conditions.)

Suggested provisions are accompanied by “Notes to User” to assist in preparing the Agreement. The provisions have been coordinated with the other forms produced by EJCDC. Much of the language should be usable on most projects, but modifications and additional provisions will often be necessary. When modifying the suggested language or writing additional provisions, the user must check the other documents thoroughly for conflicts and coordination of terms and make appropriate revisions in all affected documents.

All parties involved in construction projects benefit significantly from a standardized approach in the location of subject matter throughout the documents. Experience confirms the danger of addressing the same subject matter in more than one location: doing so frequently leads to confusion and unanticipated legal consequences. When preparing documents for a construction project, careful attention should be given to the guidance provided in the Uniform Location of Subject Matter (EJCDC N-122).

EJCDC has designated Section 00520 for this Agreement. If this convention is used, the first page of the Agreement would be numbered 00520-1. If CSI’s MasterFormat 04™ is being used for the Project Manual, consult MasterFormat 04 for the appropriate section number and number the pages accordingly.

For brevity, paragraphs of the Instructions to Bidders are referenced with the prefix “I,” those of the Bid Form are referenced with the prefix “BF,” and those of this Agreement are referenced with the prefix “A.”

NOTE: EJCDC publications may be purchased from any of the organizations listed on the page immediately following the cover page of this document.

**SUGGESTED FORM OF AGREEMENT
BETWEEN OWNER AND CONTRACTOR
FOR CONSTRUCTION CONTRACT (STIPULATED PRICE)**

THIS AGREEMENT is by and between Adams County North Dakota (“Owner”) and
_____ (“Contractor”).

Owner and Contractor hereby agree as follows:

ARTICLE 1 – WORK

1.01 Contractor shall complete all Work as specified or indicated in the Contract Documents. The Work is generally described as follows:

Bituminous Overlay, sub cut, curb & gutter, concrete sidewalk and incidental items Adams County 2nd Street Reeder ND.

ARTICLE 2 – THE PROJECT

2.01 The Project for which the Work under the Contract Documents may be the whole or only a part is generally described as follows:

Bituminous Overlay, sub cut, curb & gutter, concrete sidewalk and incidental items Adams County 2nd Street Reeder ND.

ARTICLE 3 – ENGINEER

3.01 The Project has been designed by Endeavor Engineering which is to act as Owner’s representative, assume all duties and responsibilities, and have the rights and authority assigned to Engineer in the Contract Documents in connection with the completion of the Work in accordance with the Contract Documents.

ARTICLE 4 – CONTRACT TIMES

4.01 *Time of the Essence*

A. All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Contract.

4.02 *Dates for Substantial Completion and Final Payment*

A. The Work will be substantially completed on or before October 16, 2015, and completed and ready for final payment in accordance with Paragraph 14.07 of the General Conditions on or before November 15, 2015.

4.02 *Liquidated Damages*

A. Contractor and Owner recognize that time is of the essence as stated in Paragraph 4.01 above and that Owner will suffer financial loss if the Work is not completed within the times specified in Paragraph 4.02 above, plus any extensions thereof allowed in accordance with Article 12 of the General Conditions. The parties also recognize the delays, expense, and difficulties involved in proving in a legal or arbitration proceeding the actual loss suffered by Owner if the Work is not completed on time. Accordingly, instead of requiring any such proof, Owner and Contractor agree that as liquidated damages for delay (but not as a penalty), Contractor shall pay Owner \$1,100.00 for each day that expires after the time specified in Paragraph 4.02 above for Substantial Completion until the Work is substantially complete. After Substantial Completion, if Contractor shall neglect, refuse, or fail to complete the remaining Work within the Contract Time or any proper extension thereof granted by Owner, Contractor shall pay Owner \$1,100.00 for each day that expires after the time specified in Paragraph 4.02 above for completion and readiness for final payment until the Work is completed and ready for final payment.

ARTICLE 5 – CONTRACT PRICE

5.01 Owner shall pay Contractor for completion of the Work in accordance with the Contract Documents an amount in current funds equal to the sum of the amounts determined pursuant to Paragraph 5.01.A:

A. For all Unit Price Work, an amount equal to the sum of the established unit price for each separately identified item of Unit Price Work times the actual quantity of that item:

SPEC	CODE	ITEM DESCRIPTION	UNIT	TOTAL
103	0100	CONTRACT BOND	L SUM	1
202	0112	REMOVAL OF CONCRETE	SY	681
202	0130	REMOVAL CURB & GUTTER	LF	1120
202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	2125
203	0113	COMMON EXCAVATION-WASTE	CY	500
216	0100	WATER	M GAL	20
261	0200	WEIGHTED FIBER ROLLS	LF	160
302	0114	AGGREGATE BASE COURSE CL 3	TON	525
401	0050	TACK COAT	GAL	1800
411	0105	MILLING PAVEMENT SURFACE	SY	4200
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	2522
430	5828	PG 58-28 ASPHALT CEMENT	TON	165
570	0095	SAW CONCRETE	LF	275
702	0100	MOBILIZATION	L SUM	1
704	0100	FLAGGING	MHR	80

704	1000	TRAFFIC CONTROL SIGNS	UNIT	1095
704	1050	TYPE I BARRICADE	EA	30
704	1052	TYPE III BARRICADE	EA	51
704	1067	TUBULAR MARKERS	EA	471
709	0701	GEOTEXTILE FABRIC - TYPE R1	SY	2200
722	6200	ADJUST MANHOLE	EA	5
748	0140	CURB & GUTTER - TYPE I	LF	1120
748	1030	VALLEY GUTTER 72IN	SY	275
750	0115	SIDEWALK CONCRETE 4IN	SY	720
750	1020	DRIVEWAY CONCRETE 8IN	SY	214
750	2115	DETECTABLE WARNING PANELS	SF	260
754	0112	FLAT SHEET FOR SIGNS-TYPE IX REFL SHEETING	SF	25
754	0206	STEEL GALV POSTS - TELESCOPING PERFORATED TUBE	LF	40
762	1104	PVMT MK PAINTED 4IN LINE	LF	7600
762	1106	PVMT MK PAINTED 6IN LINE	LF	1000
762	1124	PVMT MK PAINTED 24IN LINE	LF	600

The Bid prices for Unit Price Work set forth as of the Effective Date of the Agreement are based on estimated quantities. As provided in Paragraph 11.03 of the General Conditions, estimated quantities are not guaranteed, and determinations of actual quantities and classifications are to be made by Engineer as provided in Paragraph 9.07 of the General Conditions.

ARTICLE 6 – PAYMENT PROCEDURES

6.01 *Submittal and Processing of Payments*

- A. Contractor shall submit Applications for Payment in accordance with Article 14 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.

6.02 *Progress Payments; Retainage*

- A. Owner shall make progress payments on account of the Contract Price on the basis of Contractor's Applications for Payment on or about the last day of each month during performance of the Work as provided in Paragraph 6.02.A.1 below. All such payments will be measured by the schedule of values established as provided in Paragraph 2.07.A of the General Conditions (and in the case of Unit Price Work based on the number of units completed) or, in the event there is no schedule of values, as provided in the General Requirements.

1. Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and

less such amounts as Engineer may determine or Owner may withhold, including but not limited to liquidated damages, in accordance with Paragraph 14.02 of the General Conditions.

- a. 90 percent of Work completed (with the balance being retainage). If the Work has been 50 percent completed as determined by Engineer, and if the character and progress of the Work have been satisfactory to Owner and Engineer, then as long as the character and progress of the Work remain satisfactory to Owner and Engineer, there will be no additional retainage; and
- b. 90 percent of cost of materials and equipment not incorporated in the Work (with the balance being retainage).

B. Upon Substantial Completion, Owner shall pay an amount sufficient to increase total payments to Contractor to 100 percent of the Work completed, less such amounts as Engineer shall determine in accordance with Paragraph 14.02.B.5 of the General Conditions and less 200 percent of Engineer's estimate of the value of Work to be completed or corrected as shown on the tentative list of items to be completed or corrected attached to the certificate of Substantial Completion.

6.03 *Final Payment*

A. Upon final completion and acceptance of the Work in accordance with Paragraph 14.07 of the General Conditions, Owner shall pay the remainder of the Contract Price as recommended by Engineer as provided in said Paragraph 14.07.

ARTICLE 7 – INTEREST

7.01 All moneys not paid when due as provided in Article 14 of the General Conditions shall bear interest at the rate of 2 percent per annum.

ARTICLE 8 – CONTRACTOR'S REPRESENTATIONS

8.01 In order to induce Owner to enter into this Agreement, Contractor makes the following representations:

- A. Contractor has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents.
- B. Contractor has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
- C. Contractor is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.
- D. Contractor has carefully studied all: (1 all drawings of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities), if any, that have been identified in Paragraph SC-4.02 of the Supplementary Conditions as containing reliable "technical data," and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in Paragraph SC-4.06 of the Supplementary Conditions as containing reliable "technical data."

- E. Contractor has considered the information known to Contractor; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site and the Contract Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, including any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Contract Documents; and (3) Contractor's safety precautions and programs.
- F. Based on the information and observations referred to in Paragraph 8.01.E above, Contractor does not consider that further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.
- G. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.
- H. Contractor has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.
- I. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

ARTICLE 9 – CONTRACT DOCUMENTS

9.01 *Contents*

- A. The Contract Documents consist of the following:
 - 1. This Agreement (pages 1 to 9, inclusive).
 - 2. Performance bond (pages 1 to 3, inclusive).
 - 3. Payment bond (pages 1 to 3, inclusive).
 - 4. General Conditions (pages 1 to 62, inclusive).
 - 5. Supplementary Conditions (pages 1 to 520, inclusive).
 - a. ND DOT Standard Specifications for Road and Bridge Construction 2014 Edition
 - 6. Specifications as listed in the table of contents of the Project Manual.
 - 7. Drawings consisting of 60 sheets with each sheet bearing the following general title: CNOA-0103(053) PCN 20468.
 - 8. Exhibits to this Agreement (enumerated as follows):

- a. Contractor's Bid (pages _____ to _____, inclusive).
 - b. Documentation submitted by Contractor prior to Notice of Award (pages _____ to _____, inclusive).
9. The following which may be delivered or issued on or after the Effective Date of the Agreement and are not attached hereto:
- a. Notice to Proceed (pages _____ to _____, inclusive).
 - b. Work Change Directives.
 - c. Change Orders.
- B. The documents listed in Paragraph 9.01.A are attached to this Agreement (except as expressly noted otherwise above).
- C. There are no Contract Documents other than those listed above in this Article 9.
- D. The Contract Documents may only be amended, modified, or supplemented as provided in Paragraph 3.04 of the General Conditions.

ARTICLE 10 – MISCELLANEOUS

10.01 Terms

- A. Terms used in this Agreement will have the meanings stated in the General Conditions and the Supplementary Conditions.

10.02 Assignment of Contract

- A. No assignment by a party hereto of any rights under or interests in the Contract will be binding on another party hereto without the written consent of the party sought to be bound; and, specifically but without limitation, moneys that may become due and moneys that are due may not be assigned without such consent (except to the extent that the effect of this restriction may be limited by law), and unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under the Contract Documents.

10.03 Successors and Assigns

- A. Owner and Contractor each binds itself, its partners, successors, assigns, and legal representatives to the other party hereto, its partners, successors, assigns, and legal representatives in respect to all covenants, agreements, and obligations contained in the Contract Documents.

10.04 *Severability*

- A. Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Owner and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

10.05 *Contractor's Certifications*

- A. Contractor certifies that it has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for or in executing the Contract. For the purposes of this Paragraph 10.05:
 - 1. "corrupt practice" means the offering, giving, receiving, or soliciting of any thing of value likely to influence the action of a public official in the bidding process or in the Contract execution;
 - 2. "fraudulent practice" means an intentional misrepresentation of facts made (a) to influence the bidding process or the execution of the Contract to the detriment of Owner, (b) to establish Bid or Contract prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition;
 - 3. "collusive practice" means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish Bid prices at artificial, non-competitive levels; and
 - 4. "coercive practice" means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

IN WITNESS WHEREOF, Owner and Contractor have signed this Agreement. Counterparts have been delivered to Owner and Contractor. All portions of the Contract Documents have been signed or have been identified by Owner and Contractor or on their behalf.

NOTE TO USER

See I-21 and correlate procedures for format and signing of the documents.

This Agreement will be effective on _____ (which is the Effective Date of the Agreement).

NOTE TO USER

The Effective Date of the Agreement and the dates of any Construction Performance Bond (EJCDC C-610) and Construction Payment Bond (EJCDC C-615) should be the same, if possible. In no case may the date of any bonds be earlier than the Effective Date of the Agreement.

OWNER:

CONTRACTOR

By: _____

By: _____

Title: _____

Title: _____

(If Contractor is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.)

Attest: _____

Attest: _____

Title: _____

Title: _____

Address for giving notices:

Address for giving notices:

License No.: _____
(Where applicable)

(If Owner is a corporation, attach evidence of authority to sign. If Owner is a public body, attach evidence of authority to sign and resolution or other documents authorizing execution of this Agreement.)

NOTE TO USER: Use in those states or other jurisdictions where applicable or required.

Agent for service of process:

1314101.dwg

JOB # 46	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	CNOA-0103(053)	6	1

PLAN NOTES

REVISED DATE: 11/3/2014

- 100-P01 WEEKLY PLANNING SCHEDULE:** The Contractor will be required to provide a written schedule of the next week's work and a tentative schedule of the following week's work to the Engineer. All costs for the weekly schedule shall be included in the price bid for other items.
- 100-P02 CONSTRUCTION ACTIVITIES:** Work activities shall be conducted during daylight hours only and construction activities shall be scheduled to accommodate traffic before dark. Both lanes shall be opened during non-work hours and 1 lane open during working hours.
- 100-P03 CONSTRUCTION ACTIVITIES - INTERSECTION CLOSURES:** Intersections closed for valley gutter replacement shall abide by the following conditions:
 1. Two consecutive intersections shall not be closed at the same time
 2. Intersections shall not be closed for a period of more than seven (7) days
- 100-P04 DIMENSIONS:** Thickness shown on the typical sections for surfacing are approximate. It is intended that the plan tonnage provided by the basis of estimate will be used uniformly throughout the project unless otherwise authorized by the Engineer.
- 100-P05 COMPLETION DATE:** Project shall be complete by October 16, 2015.
- 100-P06 PLANS AND ND DOT SPECIFICATIONS:** If the plans conflict with the North Dakota Standard Specifications for Road and Bridge Construction, the plans shall be primary. Discrepancy shall be communicated to Engineer of Record within twenty four (24) hours of discovery.
- 107-P01 HAUL ROADS:** The Contractor shall contact the appropriate Tribal, State, County, Township or City officials to determine if there are any No Haul Routes or Restricted Routes prior to preparing a bid for this project. The gross vehicle weight on all county and township roads shall not exceed 105,500 pounds unless approved by the local agency.
- 202-P01 CURB AND GUTTER REMOVAL AND REMOVAL OF BITUMINOUS SURFACING:** The material Removed shall be stockpiled at the City Landfill. The Contractor shall coordinate with the City of Reeder at 701-853-2808 or Mayor Brad Hofland at 701-853-1456.
- 203-P01 COMMON EXCAVATION-WASTE:** Existing asphalt shall be cut leaving a vertical edge. The cost to cut a vertical edge and remove, load, haul, and dispose of the existing materials off the right of way in accordance with all requirements of the North Dakota Department of Health, shall be included in the price bid for "COMMON EXCAVATION-WASTE".
- 400-P01 TACK COAT:** When MS-1 is used for tack coat, it may be diluted by the supplier or the Contractor.
- 411-P01 MILLING PAVEMENT SURFACE:** Payment for milling shall be by the square yard, sloughs if present, will not be measured for payment but shall be incidental to the bid item "MILLING PAVEMENT SURFACE". The milled material shall be stockpiled within the City of Reeder. The Contractor shall coordinate with the City of Reeder at 701-853-2808 or the Mayor Brad Hofland at 701-853-1456.
- 411-P02 TEMPORARY ASPHALT WEDGES:** The Contractor shall place temporary asphalt or milled material wedges at the milled taper locations to allow for the smooth passage of vehicles. All costs for labor, materials, and equipment to install and remove the wedges shall be included in the unit price bid for "MILLING PAVEMENT SURFACE".
- 430-P01 HOT BITUMINOUS PAVEMENT CL 29 – PATCHING:** Within the mill and overlay segment, pavement surface areas showing signs of failure shall be repaired as per the Subgrade Repair Detail (see Sheet 1 Section 20). Existing irregularities in the roadway surface shall be cleaned, tacked, filled with hot bituminous pavement and compacted in a separate operation prior to placement of the next lift of pavement. A quantity of hot bituminous pavement has been provided for the patching and is included in the plan quantity. The patching shall be compacted with a minimum of one self-propelled pneumatic roller which shall meet NDDOT Standard Specification 151.01-A3. All hot bituminous mix and asphalt cement required for the patching shall be measured and paid for by the ton of "HMA" and "PG 58-28 ASPHALT CEMENT". This shall be considered full payment for

performing this work. The location and actual quantity of Hot Bituminous Pavement used for subgrade repair and patching will be determined in the field by the Engineer.

- 430-P02 COMPACTION:** The compaction requirements for the HMA shall be in accordance with Section 430.04-I3 (Ordinary Compaction). The compaction equipment used shall include not less than two vibratory rollers.
- 704-P01 TRAFFIC CONTROL FOR BITUMINOUS SURFACING:** Traffic control for the thin lift overlay shall consist of a temporary road closure, flagging, and a pilot car. Traffic Control Devices shall comply with the following Standard Drawings:
 1. Standard D-704-15, layout A: For temporary roadway closure during paving operations.
 2. Standard D-704-20, layout G: For project terminal signing during paving operations. Sign G20-1b-60 will not be required. Signs R2-1-48 and R2-1a-24 are to be moved as the work area moves through the construction zone and should be placed a minimum of 500 ft in advance of flagging signs. Signing will be required at junctions: as indicated in the plans.
 3. Standard D-704-22, layouts K and L: For trucks hauling material.
 4. Standard D-704-26, layouts CC, EE, and GG: For paving operations.
 5. Standard Drawings D-704-7, 8, 9, 10, 11, 12, 13, and 14 are applicable.

Quantities have been developed based on the entire project for the paving operations. The required traffic control signs and devices are included in the "Traffic Control Devices List" and will be measured and paid at the Contract Unit Price for each device. Additional devices required to accommodate the Contractor's operation shall be the Contractor's responsibility.

- 704-251 TRAFFIC CONTROL FOR UNEVEN PAVEMENT:** The contractor has the option of making the paving lanes even at the end of each day's paving operation or signing for the uneven pavement and providing the following devices: Install "Uneven Lanes" signs (Sign No. W8-11-48) and a supplemental plate (Sign No. W20-52-54), identifying the distance, on the right shoulder (both directions) in advance of the beginning of the uneven pavement and at major intersections. A major intersection shall be defined as a CMC, state, U.S. highway, or Interstate ramp. Install "Do Not Pass" signs (Sign No. R4-1-48) on the right shoulder (both directions) between the uneven pavement sign and the beginning of the uneven pavement and at major intersections. If uneven pavement exists at any location longer than one night, tubular markers shall be installed. Tubular markers shall be spaced at two times the posted speed limit on the centerline where uneven pavement exists.

These traffic control devices shall be left in place until the lanes are even. These signs and tubular markers are included in the "Traffic Control Devices List" and will be measured and paid for at the contract unit price for each device. No extra compensation will be allowed for relocation due to work progression.

- 762-P01 SHORT TERM PAVEMENT MARKING:** The quantity for short term striping is based on one application. Additional applications, shall be at the expense of the Contractor.

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CNOA-0103(053) ADAMS COUNTY, NORTH DAKOTA		
ENDEAVOR ENGINEERING		PLAN NOTES
DRAWN BY JLD	CHECKED BY CAO	PRODUCTION NO. 1314101

ESTIMATE OF QUANTITIES

JOB # 46	STATE	PROJECT NO.	SECTION NO.	SHEET NO.
	ND	CNOA-0103(053)	8	1

REVISED DATE: 11/3/2014

SPEC	CODE	ITEM DESCRIPTION	UNIT	TOTAL
103	0100	CONTRACT BOND	L SUM	1
202	0112	REMOVAL OF CONCRETE	SY	681
202	0130	REMOVAL CURB & GUTTER	LF	1120
202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	2125
203	0113	COMMON EXCAVATION-WASTE	CY	500
216	0100	WATER	M GAL	20
261	0200	WEIGHTED FIBER ROLLS	LF	160
302	0114	AGGREGATE BASE COURSE CL 3	TON	525
401	0050	TACK COAT	GAL	1800
411	0105	MILLING PAVEMENT SURFACE	SY	4200
430	0500	COMMERCIAL GRADE HOT MIX ASPHALT	TON	2522
430	5828	PG 58-28 ASPHALT CEMENT	TON	165
570	0095	SAW CONCRETE	LF	275
702	0100	MOBILIZATION	L SUM	1
704	0100	FLAGGING	MHR	80
704	1000	TRAFFIC CONTROL SIGNS	UNIT	1095
704	1050	TYPE I BARRICADE	EA	30
704	1052	TYPE III BARRICADE	EA	51
704	1067	TUBULAR MARKERS	EA	471
709	0701	GEOTEXTILE FABRIC - TYPE R1	SY	2200
722	6200	ADJUST MANHOLE	EA	5
748	0140	CURB & GUTTER - TYPE I	LF	1120
748	1030	VALLEY GUTTER 72IN	SY	275
750	0115	SIDEWALK CONCRETE 4IN	SY	720
750	1020	DRIVEWAY CONCRETE 8IN	SY	214
750	2115	DETECTABLE WARNING PANELS	SF	260
754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	25
754	0206	STEEL GALV POSTS-TELESCOPING PERFORATED TUBE	LF	40
762	1104	PVMT MK PAINTED 4IN LINE	LF	7600
762	1106	PVMT MK PAINTED 6IN LINE	LF	1000
762	1124	PVMT MK PAINTED 24IN LINE	LF	600

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ESTIMATE OF QUANTITIES

1314101.dwg

BASIS OF ESTIMATE

REVISED DATE: 11/3/2014

Material	Unit	Stations		Stations	
		Tangent		Tangent	
		Width (ft)	Quantity per Station	Width (ft)	Quantity per Station
Aggregate CL 3	CY	24	---	37	100.00
SS-1h or CCS-1h Emuls Asphalt @ 0.05 Gal/SY	Gal	24	13.33	37	20.56
HMA @ 110Lbs/IN/SY	Ton	24	29.33	37	45.2
PG- 58-28 Asphalt Cement @ 6.0%	Ton	24	1.76	37	2.7

Short Term Pavement Marking		
Location - Type	Basis	Quantity
Centerline – (Paint) - 4" Yellow	Centerline Skips 1,320 LF/mile Barrier Stripe 990 LF/mile	1600 LF
Edge Lines – (Paint) – 4" White		6100 LF
Permanent Pavement Marking		
Location - Type	Basis	Quantity
Centerline – Epoxy Pvmt MK 4 IN Line	Centerline Skips 1,320 LF/mile Barrier Stripe 990 LF/mile	1600 LF
Edge Lines – Epoxy Pvmt MK 4 IN Line		6100 LF
Stop Bar – 24" White		94 LF
Cross walk – 6" White		450 LF

Water

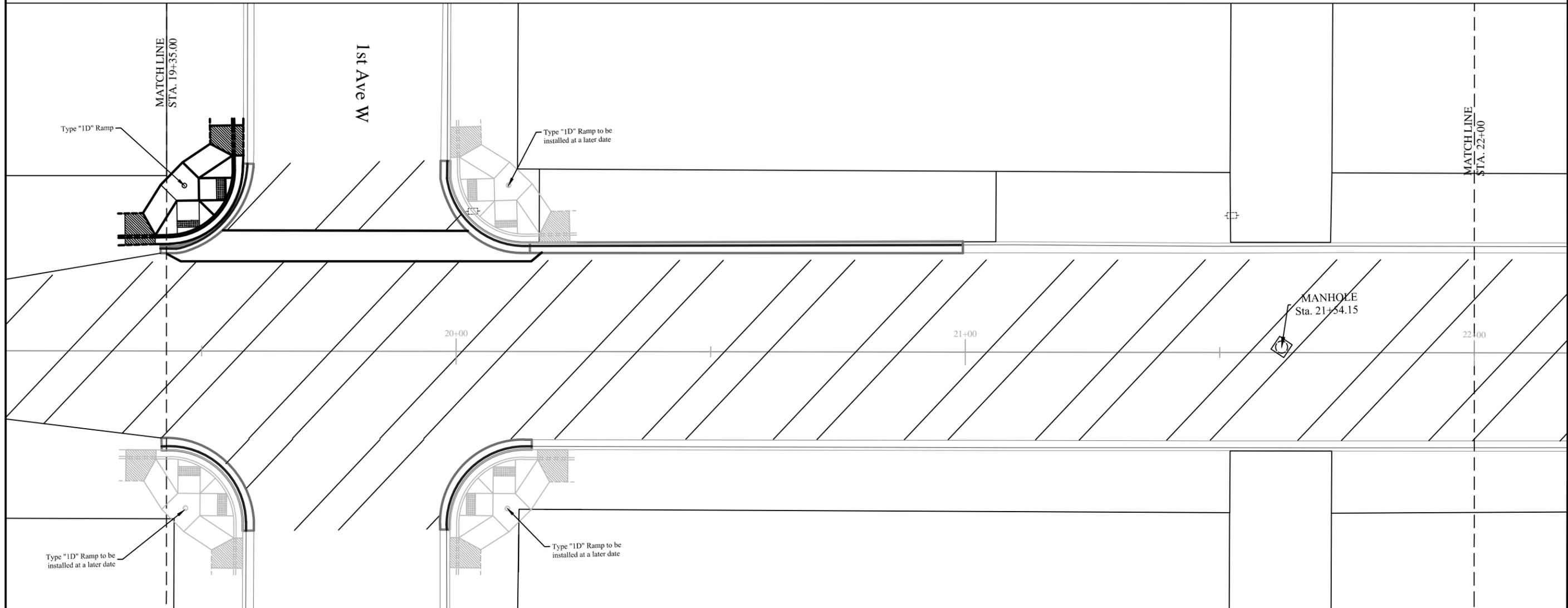
25 MGal/Mile for Dust Palliative
20 Gal/Ton for Aggregates

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CNOA-0103(053) ADAMS COUNTY, NORTH DAKOTA		
	BASIS OF ESTIMATE	
DRAWN BY JLD	CHECKED BY CAO	PRODUCTION NO. 1314101

1314101.dwg

REVISED DATE: 11/3/2014



1314101.dwg

AGGREGATE BASE COURSE CL 3
STA. 19+43 TO 20+17 15 C.Y.

CURB & GUTTER - TYPE 1
 STA. 19+42 TO 19+58 L.T. 27 L.F.
 STA. 19+42 TO 19+58 R.T. 27 L.F.
 STA. 19+98 TO 20+14 R.T. 27 L.F.
 STA. 19+98 TO 20+14 L.T. 27 L.F.
 STA. 20+15 TO 20+99 L.T. 84 L.F.
 192 L.F.

VALLEY GUTTER 72IN
STA. 19+43 TO 20+17 38 S.Y.

ADJUST MANHOLE
STA. 21+54 1 Each

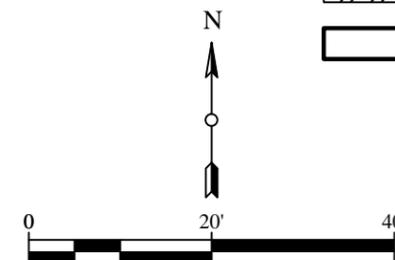
DETECTABLE WARNING PANELS
 STA. 19+47 L.T. 10 S.F.
 STA. 19+54 L.T. 10 S.F.
 20 S.F.

SIDEWALK CONCRETE 4IN
STA. 19+35 TO 19+58 L.T. 24 S.Y.

LEGEND

 Curb & Gutter Type I
 Paving Area
 Concrete to be Placed

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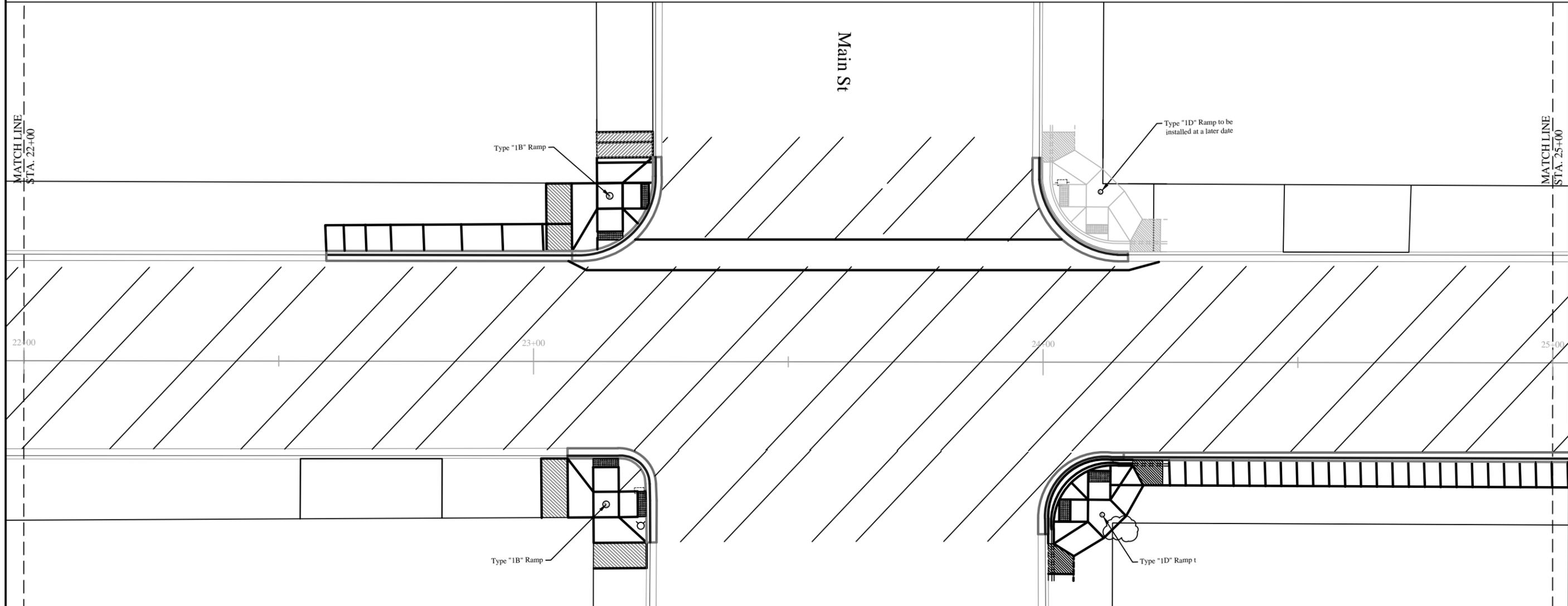


CNOA-0103(053) ADAMS COUNTY, NORTH DAKOTA		
ENDEAVOR ENGINEERING	PAVING LAYOUT	
DRAWN BY: JLD	CHECKED BY: CAO	PRODUCTION NO: 1314101

JOB # 46

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	CNOA-0103(053)	90	2

REVISED DATE: 11/3/2014



AGGREGATE BASE COURSE CL 3	
STA. 23+07 TO 24+23	28 C.Y.
STA. 24+00 TO 25+00	100 C.Y.
	<u>128 C.Y.</u>

CURB & GUTTER-TYPE 1	
STA. 22+59 TO 23+08 L.T.	49 L.F.
STA. 23+08 TO 23+25 L.T.	27 L.F.
STA. 23+08 TO 23+25 R.T.	27 L.F.
STA. 23+98 TO 24+17 L.T.	30 L.F.
STA. 23+98 TO 24+17 R.T.	30 L.F.
STA. 24+17 TO 25+00 R.T.	83 L.F.
	<u>246 L.F.</u>

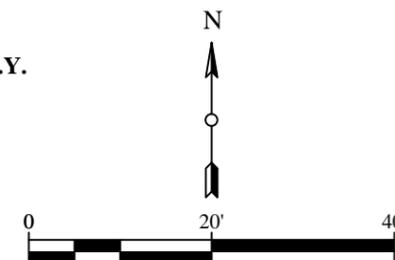
DETECTABLE WARNING PANELS	
STA. 23+14 R.T.	10 S.F.
STA. 23+15 L.T.	10 S.F.
STA. 23+21 R.T.	10 S.F.
STA. 23+22 L.T.	10 S.F.
	<u>40 S.F.</u>

SIDEWALK CONCRETE 4IN	
STA. 22+59 TO 23+02 L.T.	24 S.Y.
STA. 23+02 TO 23+22 L.T.	38 S.Y.
STA. 23+02 TO 23+22 R.T.	38 S.Y.
STA. 24+01 TO 24+24 R.T.	24 S.Y.
	<u>124 S.Y.</u>

VALLEY GUTTER 72IN	
STA. 23+07 TO 24+23 L.T.	62 S.Y.

LEGEND

	Curb & Gutter Type 1
	Paving Area
	Sidewalk Concrete
	Concrete to be Placed



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CNOA-0103(053)
ADAMS COUNTY, NORTH DAKOTA

ENDEAVOR ENGINEERING



PAVING LAYOUT

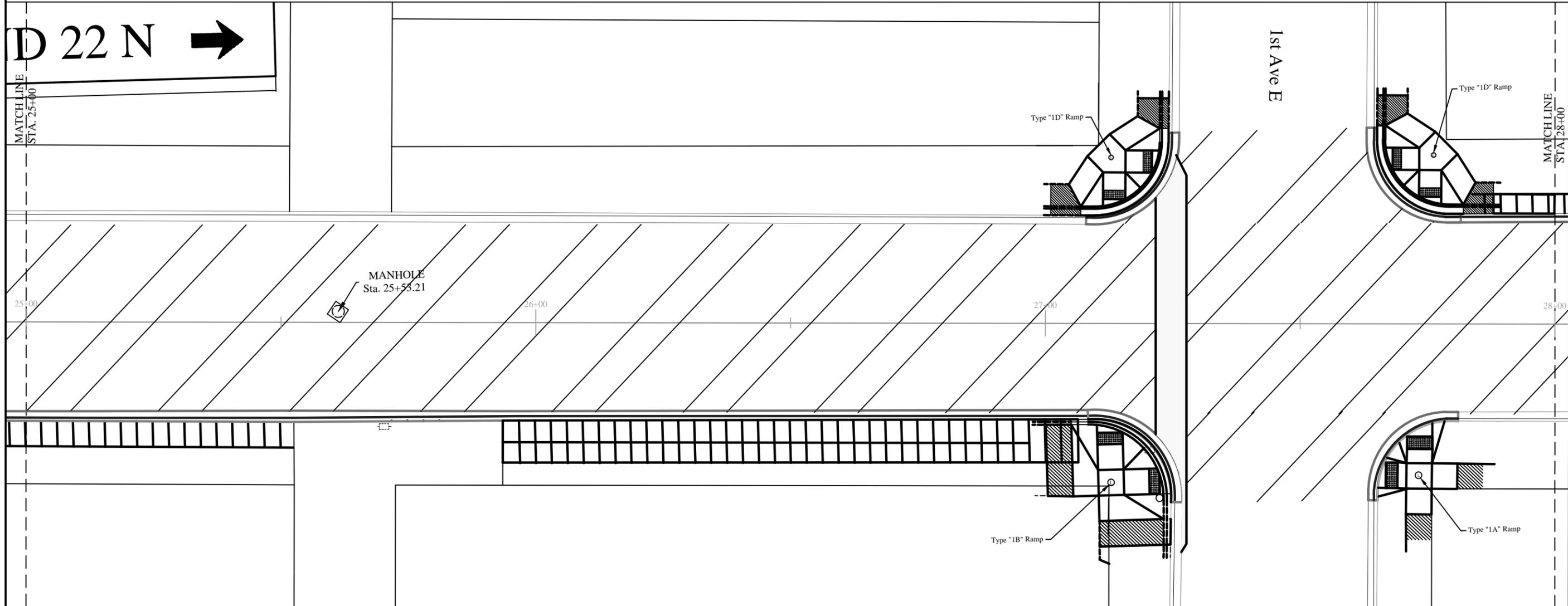
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JOB # 46

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	CNOA-0103(053)	90	3

REVISED DATE: 11/3/2014



1314101.dwg

AGGREGATE BASE COURSE CL 3
 STA. 25+00 TO 28+00 300 C.Y.

CURB & GUTTER TYPE-1
 STA. 25+00 TO 27+08 R.T. 208 L.F.
 STA. 27+08 TO 27+26 R.T. 29 L.F.
 STA. 27+08 TO 27+26 L.T. 29 L.F.
 STA. 27+63 TO 27+81 R.T. 29 L.F.
 STA. 27+63 TO 27+81 L.T. 29 L.F.
 STA. 27+81 TO 28+00 L.T. 19 L.F.
 343 L.F.

DETECTABLE WARNING PANELS
 STA. 27+13 L.T. 10 S.F.
 STA. 27+13 R.T. 10 S.F.
 STA. 27+15 R.T. 10 S.F.
 STA. 27+20 L.T. 10 S.F.
 STA. 27+69 L.T. 10 S.F.
 STA. 27+76 L.T. 10 S.F.
 60 S.F.

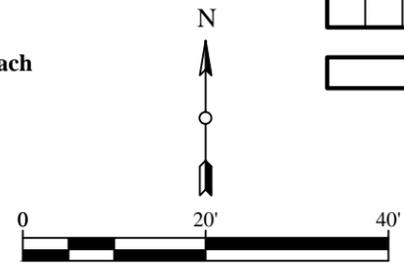
SIDEWALK CONCRETE 4IN
 STA. 25+00 TO 25+52 R.T. 31 S.Y.
 STA. 25+93 TO 27+25 R.T. 131 S.Y.
 STA. 27+88 TO 28+00 L.T. 5 S.Y.
 167 S.Y.

VALLEY GUTTER 72IN
 STA. 27+22 TO 27+28 36 S.Y.

ADJUST MANHOLE
 STA. 25+53 1 Each

LEGEND

	Curb & Gutter Type I
	Paving Area
	Sidewalk Concrete
	Concrete to be Placed



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CNOA-0103(053)
 ADAMS COUNTY, NORTH DAKOTA

ENDEAVOR ENGINEERING

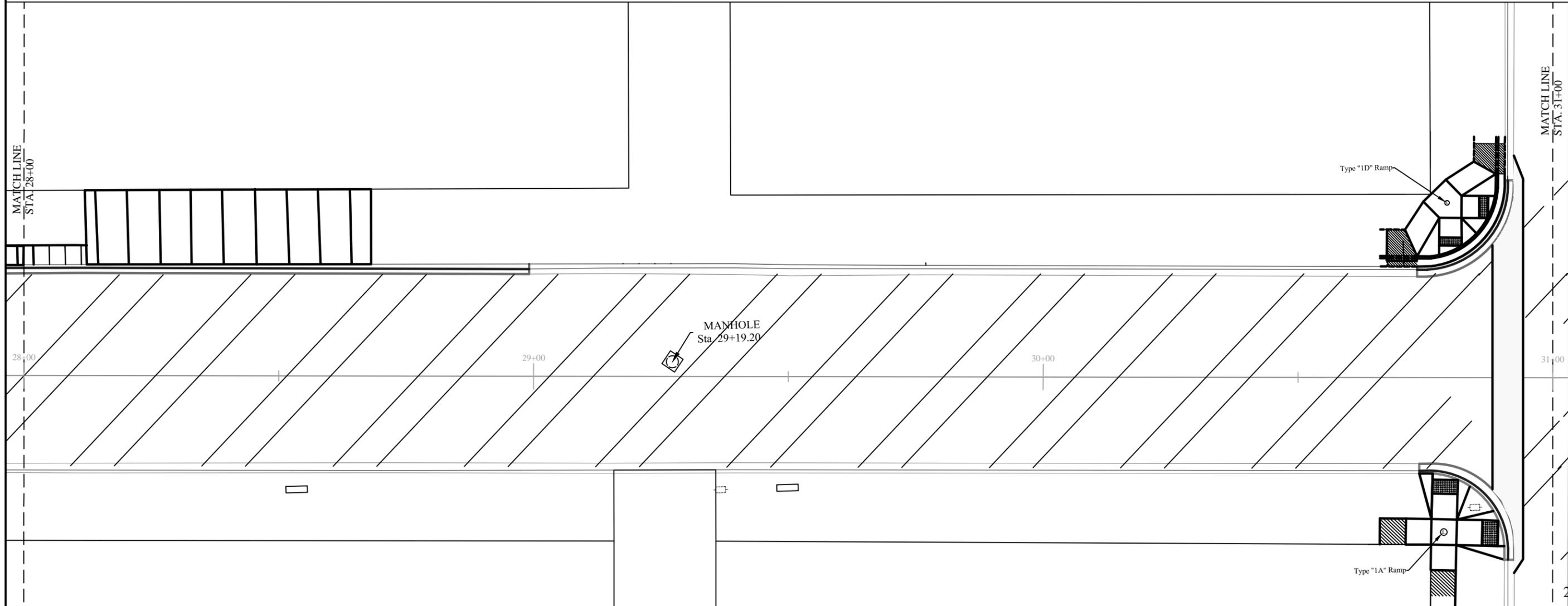
PAVING LAYOUT

DRAWN BY JLD	CHECKED BY CAO	PRODUCTION NO. 1314101
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JOB # 46

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	CNOA-0103(053)	90	4

REVISED DATE: 11/3/2014



1314101.dwg

AGGREGATE BASE COURSE CL 3
 STA. 30+88 TO 30+94 2 C.Y.
 STA. 28+00 TO 29+00 100 C.Y.
 102 C.Y.

CURB & GUTTER-TYPE 1
 STA. 28+00 TO 28+99 LT. 99 L.F.
 STA. 30+73 TO 30+92 LT. 30 L.F.
 STA. 30+73 TO 30+92 RT. 30 L.F.
 159 L.F.

SIDEWALK CONCRETE 4IN
 STA. 28+00 TO 28+12 L.T. 6 S.Y.
 STA. 30+66 TO 30+90 R.T. 24 S.Y.
 STA. 30+67 TO 30+91 L.T. 24 S.Y.
 54 S.Y.

DETECTABLE WARNING PANELS
 STA. 30+79 R.T. 10 S.F.
 STA. 30+79 L.T. 10 S.F.
 STA. 30+88 R.T. 10 S.F.
 STA. 30+88 L.T. 10 S.F.
 40 S.F.

VALLEY GUTTER 72IN
 STA. 30+88 TO 30+94 38 S.Y.

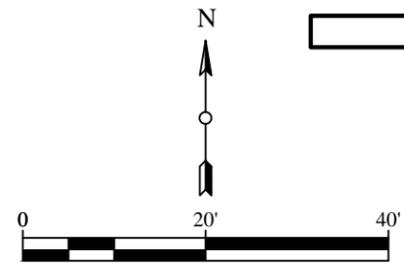
DRIVEWAY CONCRETE 8IN
 STA. 28+12 TO 28+68 L.T. 214 S.Y.

ADJUST MANHOLE
 STA. 29+19 1 Each

LEGEND

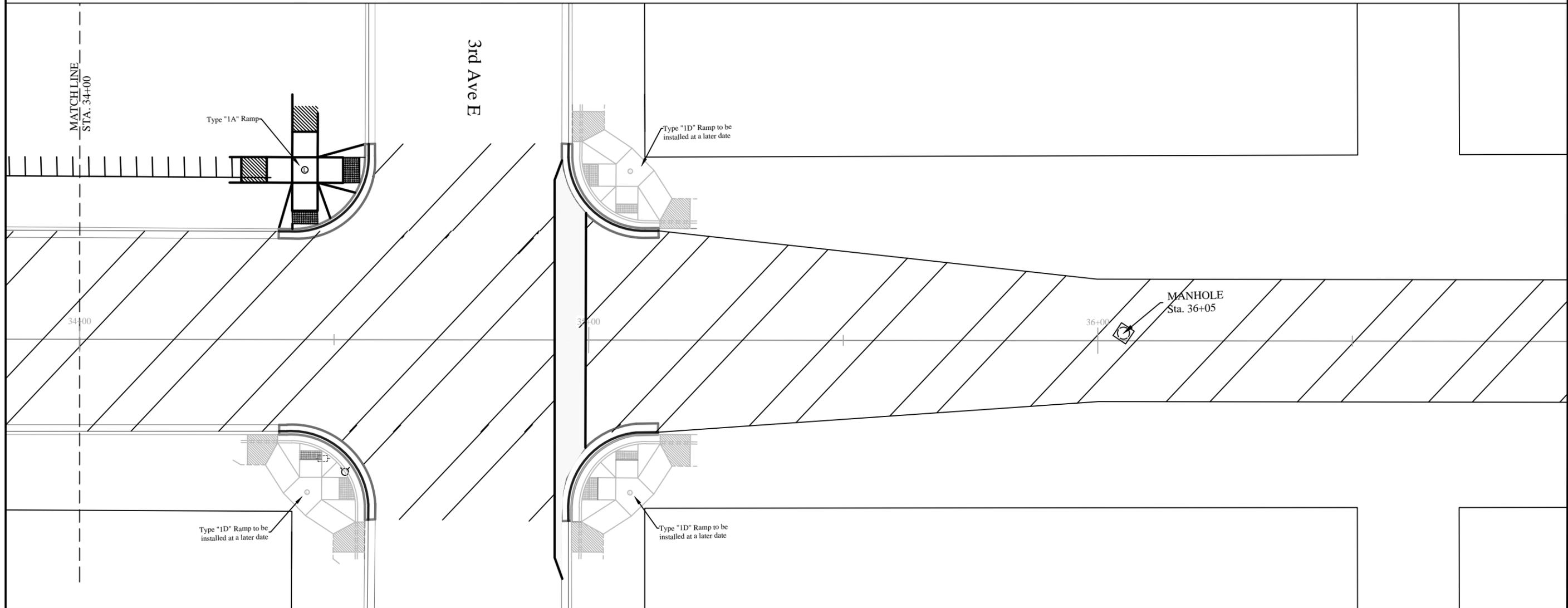
	Curb & Gutter Type I
	Paving Area
	Sidewalk Concrete
	Concrete to be Placed

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CNOA-0103(053) ADAMS COUNTY, NORTH DAKOTA		
ENDEAVOR ENGINEERING	PAVING LAYOUT	
DRAWN BY JLD	CHECKED BY CAO	PRODUCTION NO. 1314101

REVISED DATE: 11/3/2014



1314101.dwg

AGGREGATE BASE COURSE CL 3
STA. 34+93 TO 34+99 4 C.Y.

CURB & GUTTER -TYPE I
STA. 34+39 TO 34+56 R.T. 30 L.F.
STA. 34+40 TO 34+58 L.T. 30 L.F.
STA. 34+95 TO 35+14 R.T. 30 L.F.
STA. 34+95 TO 35+14 L.T. 30 L.F.
120 L.F.

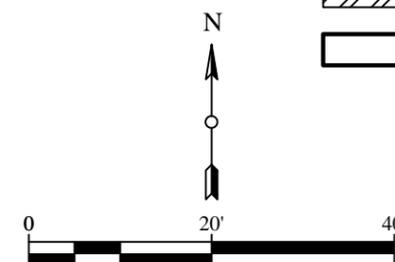
SIDEWALK CONCRETE 4IN
STA. 34+29 TO 34+56 L.T. 24 S.Y.

ADJUST MANHOLE
STA. 36+05 1 Each

DETECTABLE WARNING PANELS
STA. 34+44 L.T. 10 S.F.
STA. 34+53 L.T. 10 S.F.
20 S.F.

VALLEY GUTTER 72IN
STA. 34+93 TO 34+99 36 S.Y.

LEGEND
 Curb & Gutter Type I
 Paving Area
 Concrete to be Placed

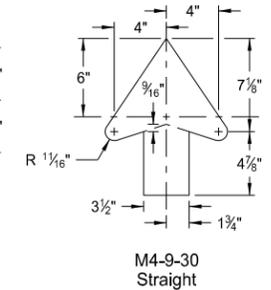
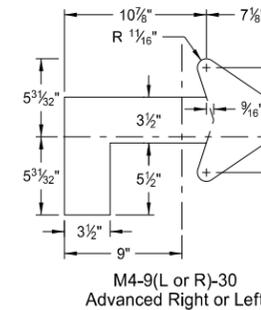
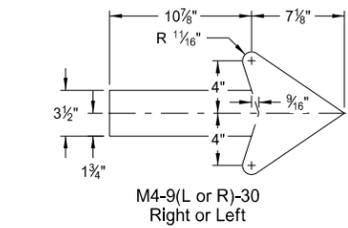
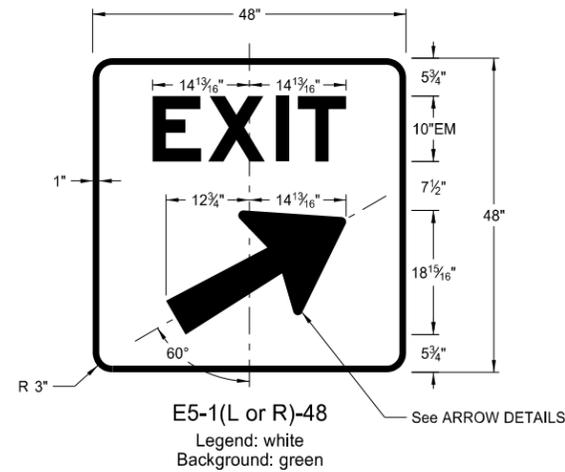
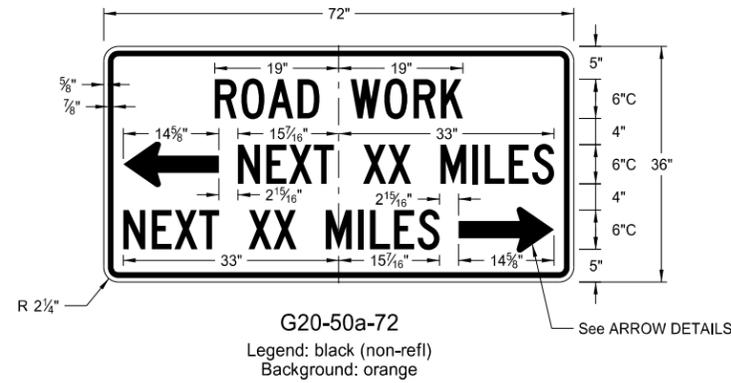
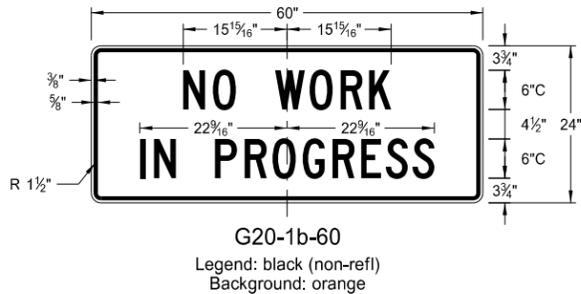
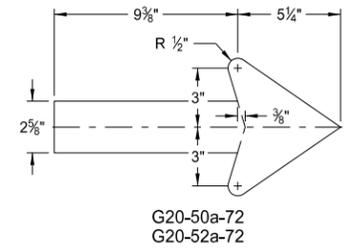
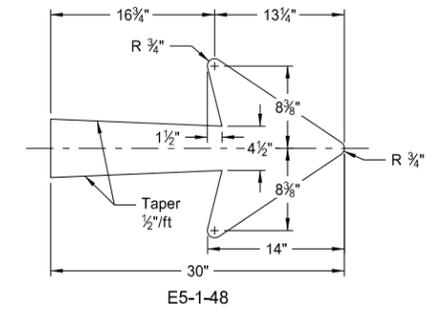
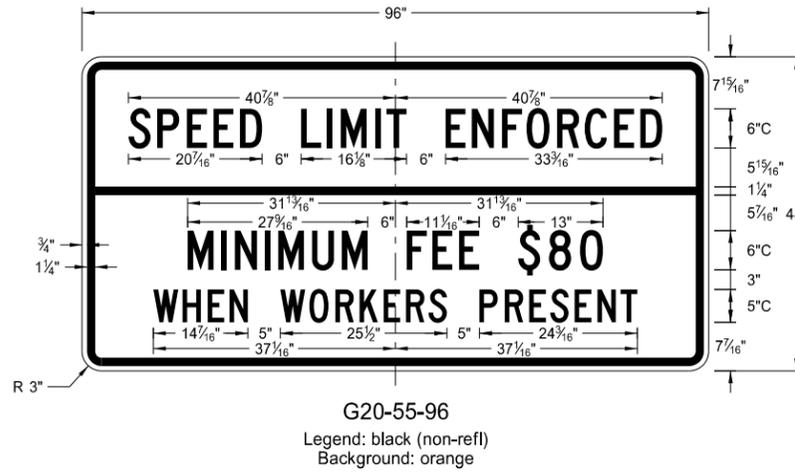
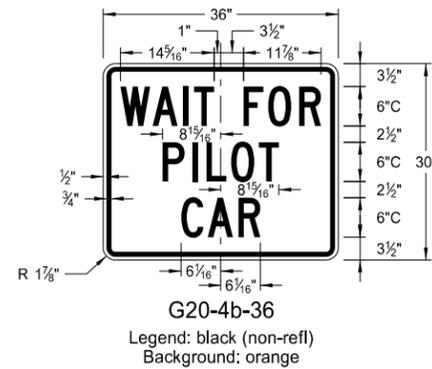
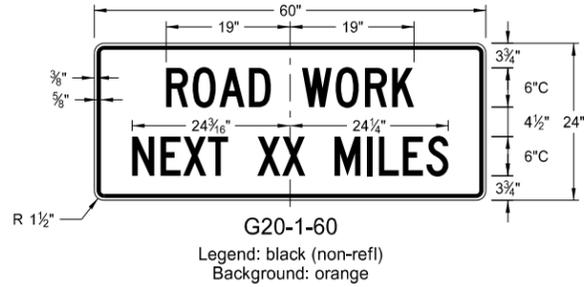


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CNOA-0103(053) ADAMS COUNTY, NORTH DAKOTA		
ENDEAVOR ENGINEERING	PAVING LAYOUT	
DRAWN BY: JLD	CHECKED BY: CAO	PRODUCTION NO: 1314101

CONSTRUCTION SIGN DETAILS
 TERMINAL AND GUIDE SIGNS

D-704-9



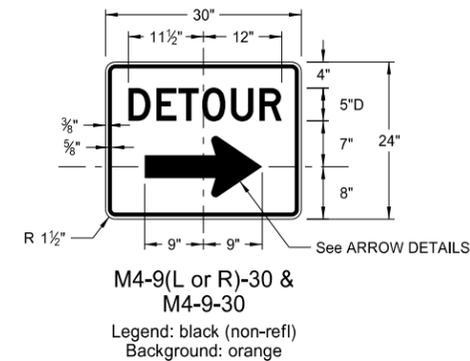
ARROW DETAILS

NOTES:

(A) Arrow may be right or left of the legend to indicate construction to the right or left.

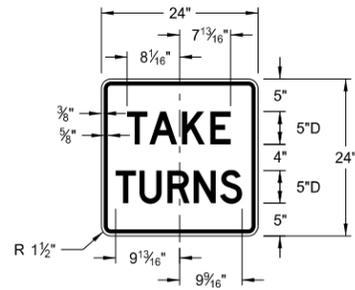
NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
8-13-13	
REVISIONS	
DATE	CHANGE

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 Roger Weigel,
 Registration Number
 PE-2930,
 on 8/13/13 and the original document is stored at the
 North Dakota Department
 of Transportation



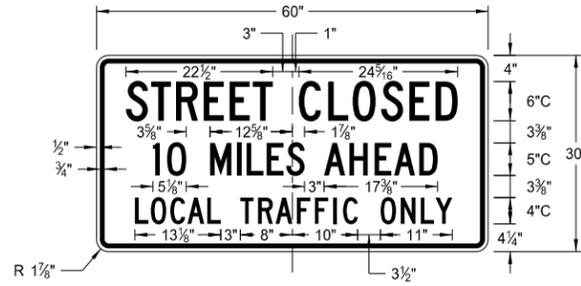
CONSTRUCTION SIGN DETAILS
REGULATORY SIGNS

D-704-10



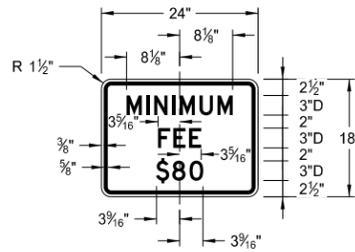
R1-50-24

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Background: white



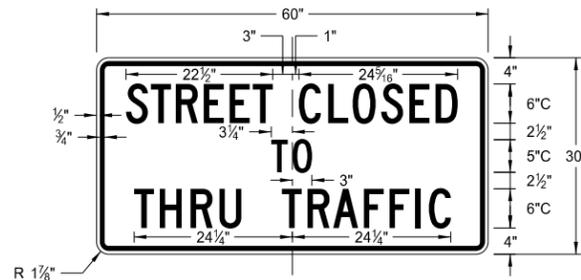
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R2-1a-24

Legend: black (non-refl)
Background: white



R11-4a-60

Legend: black (non-refl)
Background: white



R11-2a-48

Legend: black (non-refl)
Background: white

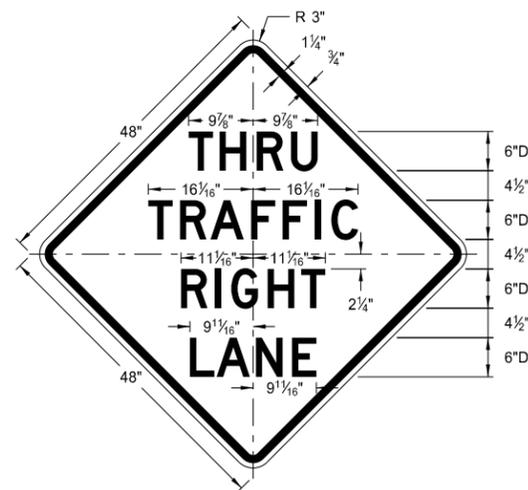
NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
8-13-13	
REVISIONS	
DATE	CHANGE

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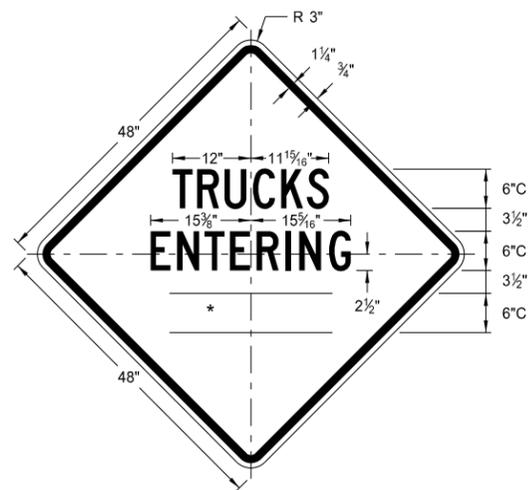
CONSTRUCTION SIGN DETAILS
WARNING SIGNS

WORD	LETTER SPACING
AHEAD	Standard
200 FT	Standard
350 FT	Standard
500 FT	Standard
1000 FT	Reduce 40%
1500 FT	Reduce 40%
½ MILE	Reduce 50%
1 MILE	Standard

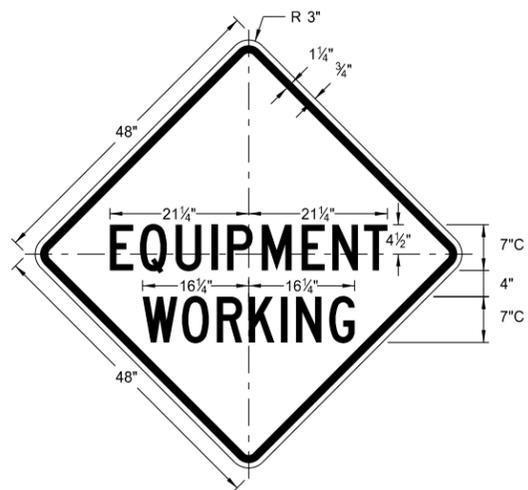
* DISTANCE MESSAGES



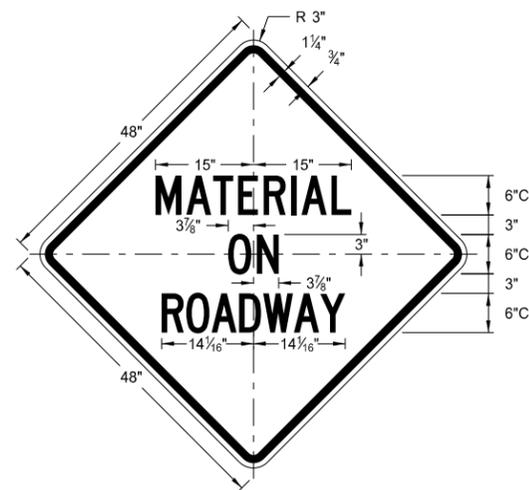
W5-8-48
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Background: orange



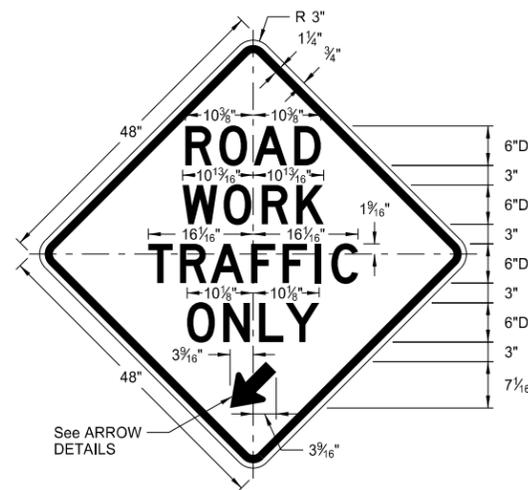
W8-54-48
Legend: black (non-refl)
Background: orange



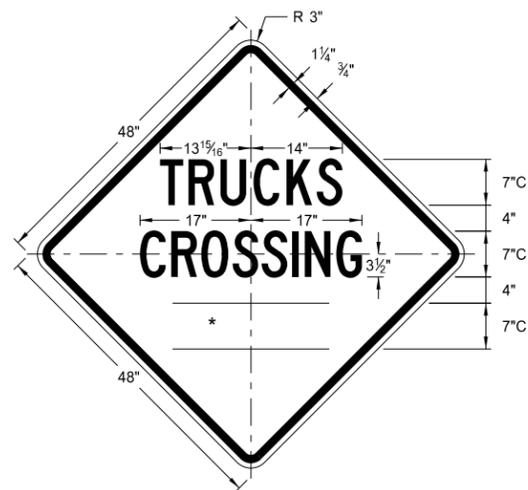
W20-51-48
Legend: black (non-refl)
Background: orange



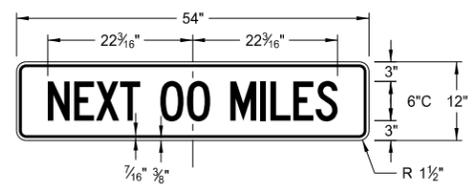
W21-51-48
Legend: black (non-refl)
Background: orange



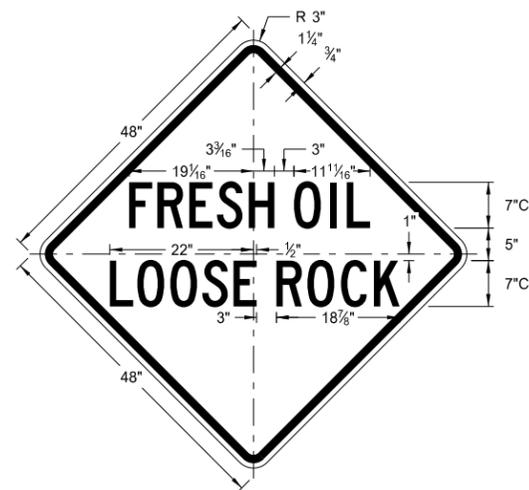
W5-9-48
Legend: black (non-refl)
Background: orange



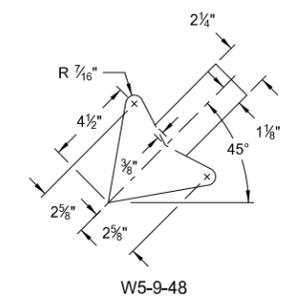
W8-55-48
Legend: black (non-refl)
Background: orange



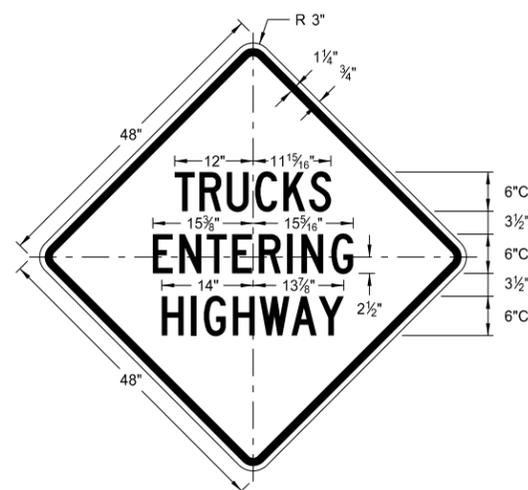
W20-52-54
Legend: black (non-refl)
Background: orange



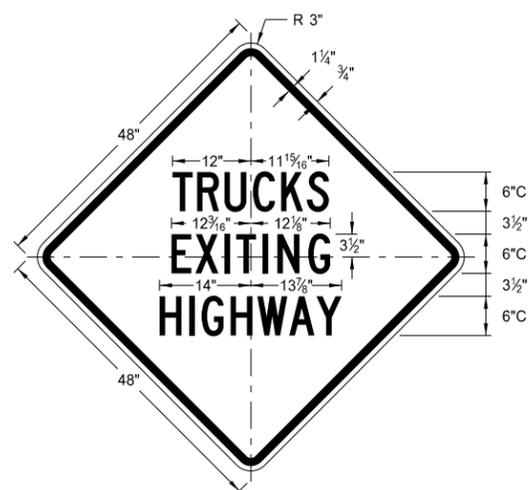
W22-8-48
Legend: black (non-refl)
Background: orange



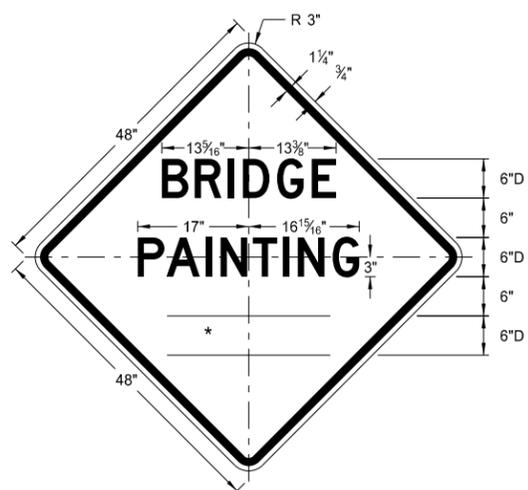
W5-9-48
ARROW DETAILS



W8-53-48
Legend: black (non-refl)
Background: orange



W8-56-48
Legend: black (non-refl)
Background: orange



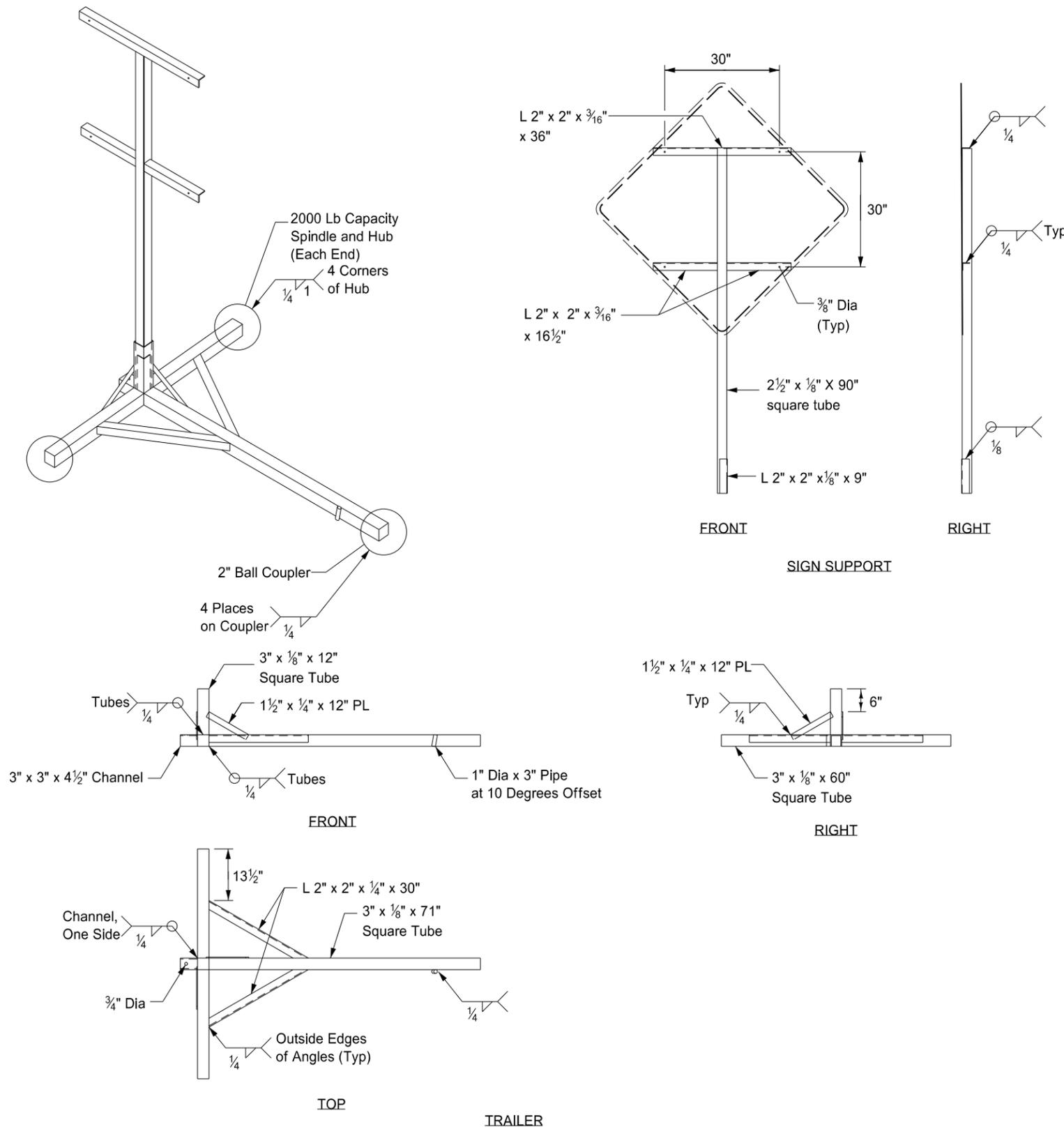
W21-50-48
Legend: black (non-refl)
Background: orange

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
8-13-13	
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PORTABLE SIGN SUPPORT ASSEMBLY

D-704-50



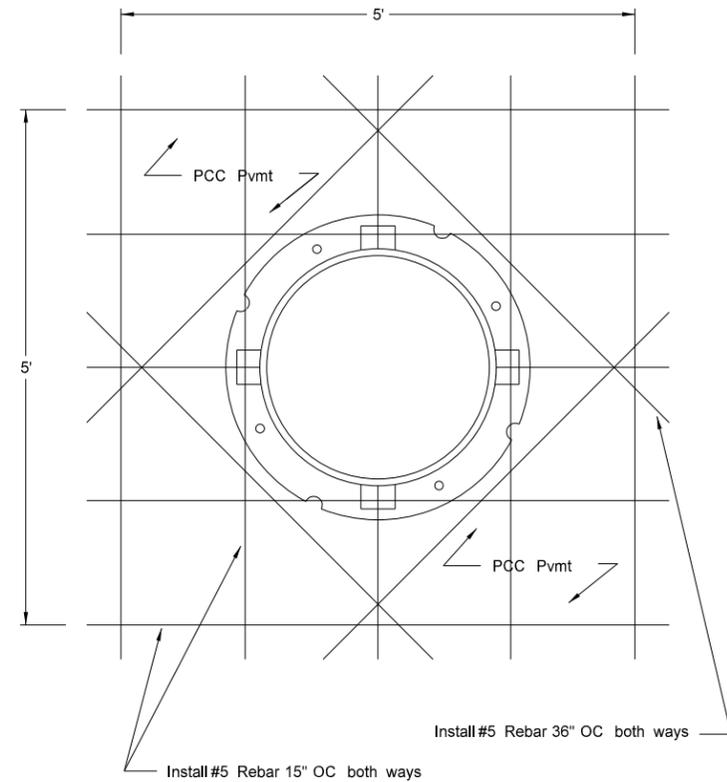
Notes:

- ① The maximum weight of the assembly is 250 pounds.
- ② Use a 14" wheel and tire.
- ③ Automotive and equipment axle assemblies may not be used for trailer-mounted sign supports.
- ④ Other NCHRP 350 crash tested assemblies are acceptable.

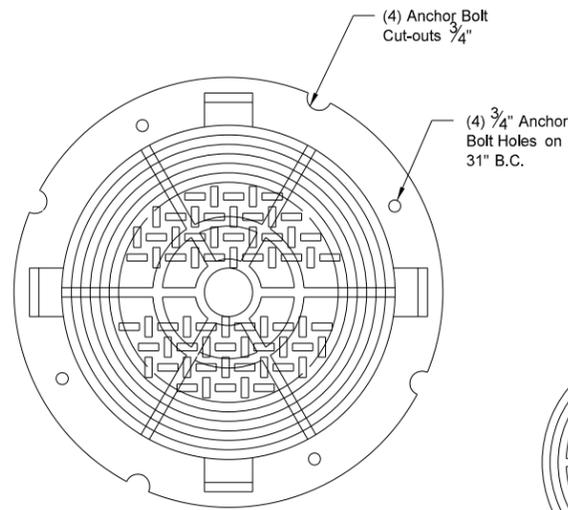
NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
11-23-10	
REVISIONS	
DATE	CHANGE

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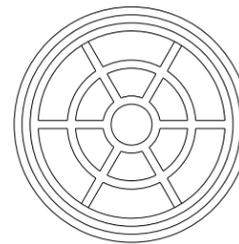
FLOATING MANHOLE CASTING



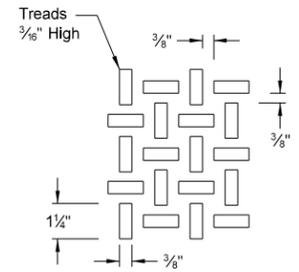
PLAN VIEW



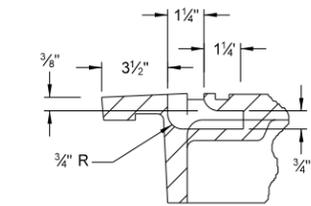
MATERIAL: Cast Gray Iron ASTM A-48, Class 35B
 FINISH: No Paint
 WEIGHT: Approximately 642 Lb/Unit



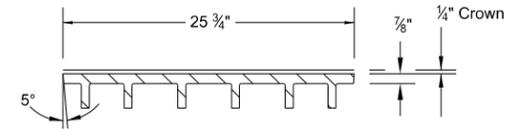
BOTTOM DETAIL
 LID ONLY



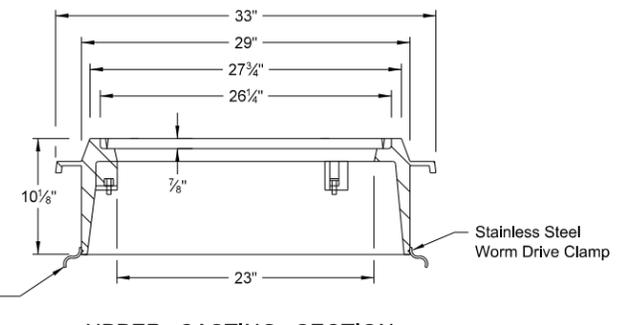
SURFACE DETAIL



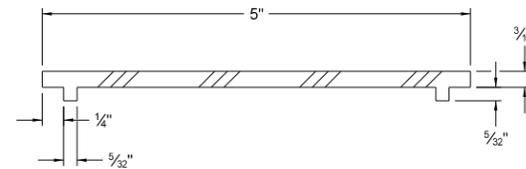
CONCEALED PICK DETAIL



LID SECTION

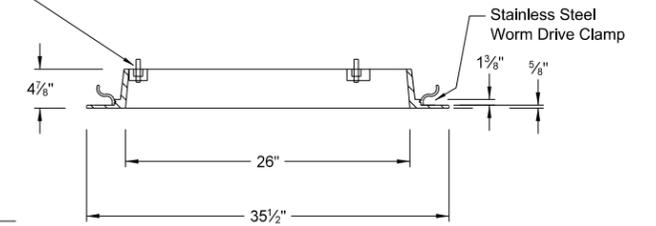


UPPER CASTING SECTION

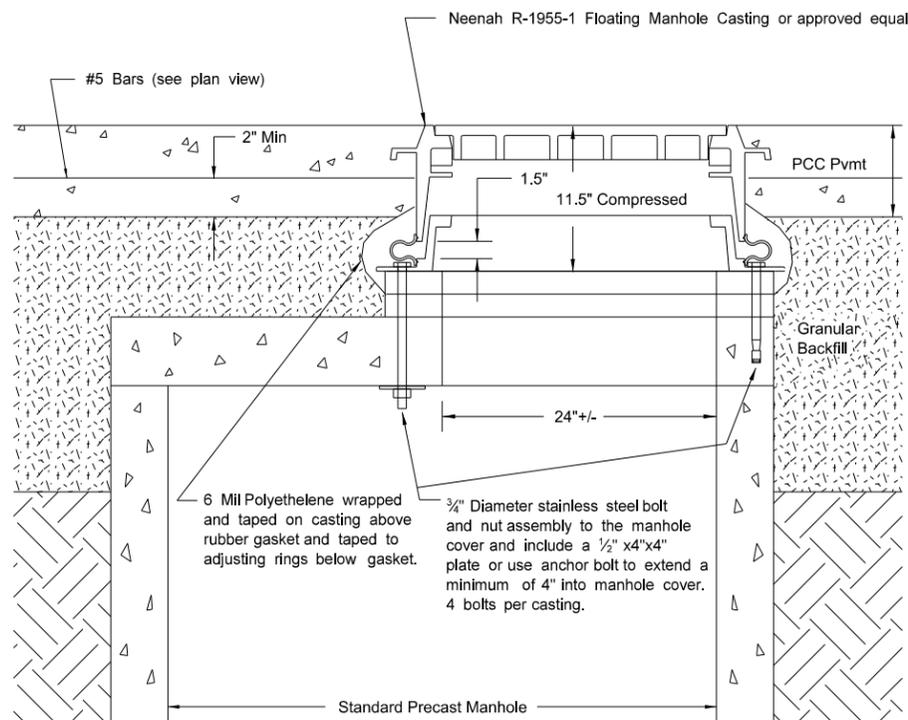


SECTION OF EXTRUDED NEOPRENE GASKET

(3) 5/8"-11 x 5/2" Grade 8 Steel Hex Bolts, Nuts W/ (2) Washers Ea Zinc Plated



LOWER CASTING SECTION



ELEVATION VIEW OF CONNECTION TO STANDARD PRECAST MANHOLE -TYPICAL

NOTES:

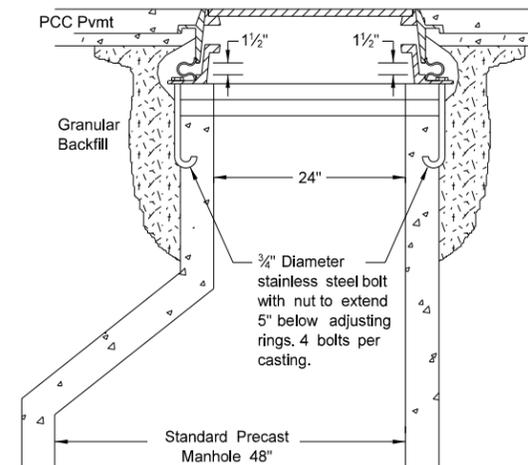
Bed frame in mortar, install precast two-inch rings, and plaster inside and out with mortar.

When installing an existing box out, drill #5 rebar into existing pavement 6" deep - 15" OC - bars to be 20" long.

Length of anchor bolts to vary with number of adjusting rings.

Installation cost at existing locations shall be included in price bid for manhole castings.

Installation cost at new manhole locations shall be included in the price bid for manholes.

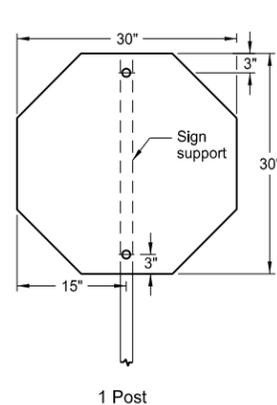


ELEVATION VIEW OF CONNECTION TO CONICAL MANHOLE - TYPICAL

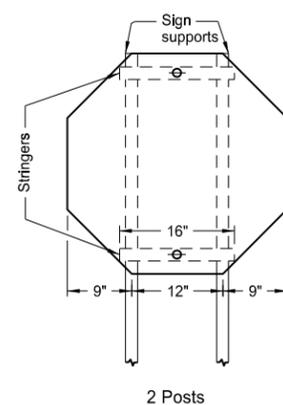
NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
07-19-2010	
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ROGER WEIGEL
 Registration Number
 PE-2930,
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SIGN PUNCHING, STRINGER AND SUPPORT LOCATION DETAILS REGULATORY, WARNING AND GUIDE SIGNS

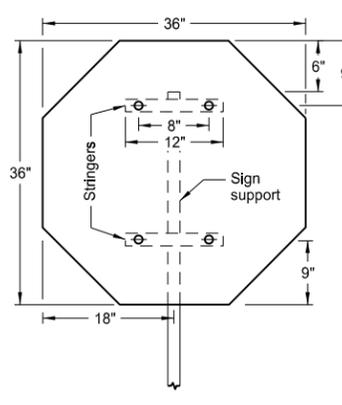


1 Post

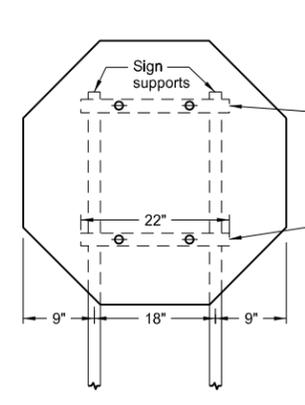


2 Posts

Assembly No. 1

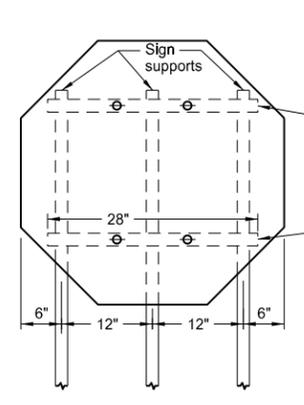


1 Post



2 Posts

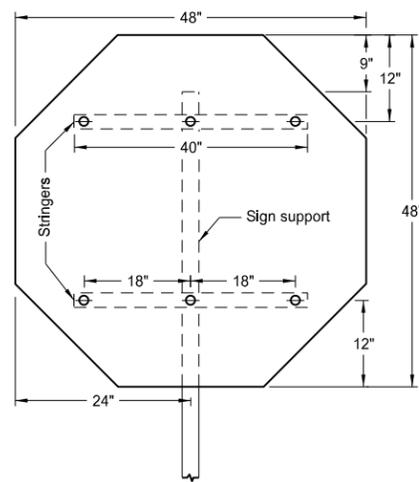
Assembly No. 2



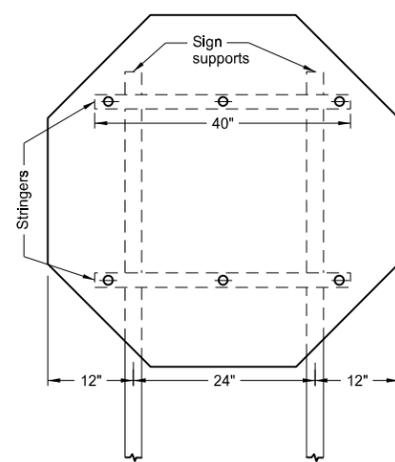
3 Posts

Notes:

1. See Standard D-754-25 for mounting details.
2. The minimum sign backing material thickness shall be 0.100 inch.
3. Perforated square tube stringer shall be 1½" x 1½".
4. All holes shall be punched round for ¾" bolt.

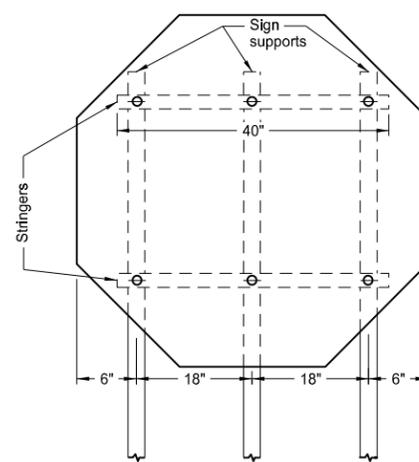


1 Post

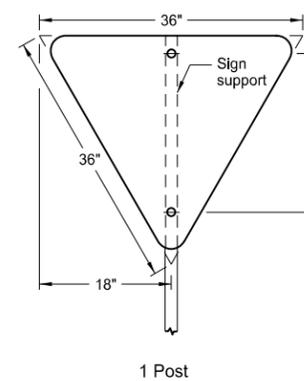


2 Posts

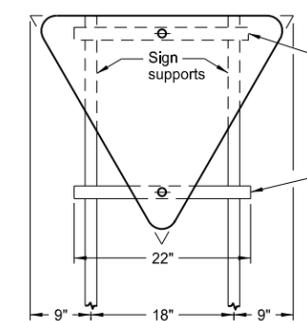
Assembly No. 3



3 Posts

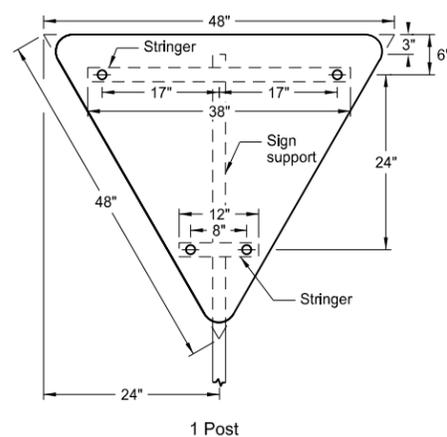


1 Post

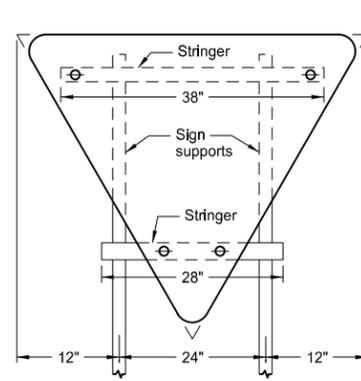


2 Posts

Assembly No. 4

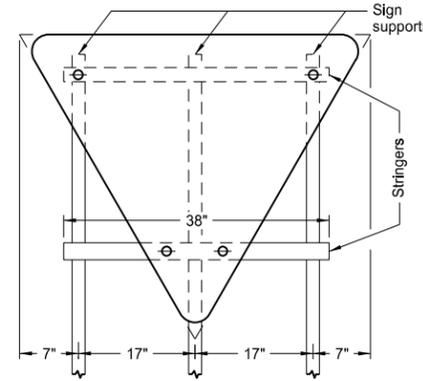


1 Post



2 Posts

Assembly No. 5

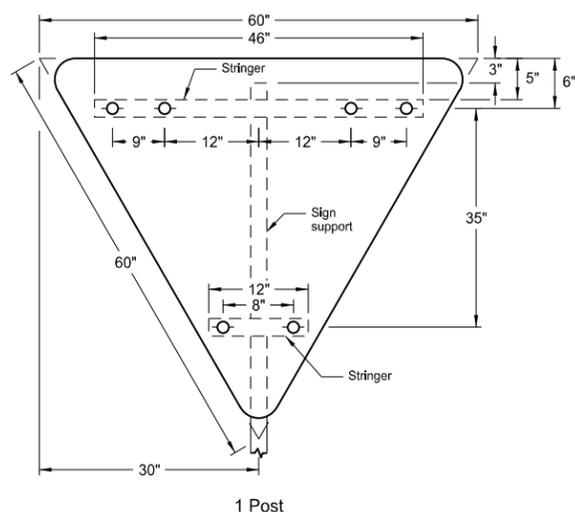


3 Posts

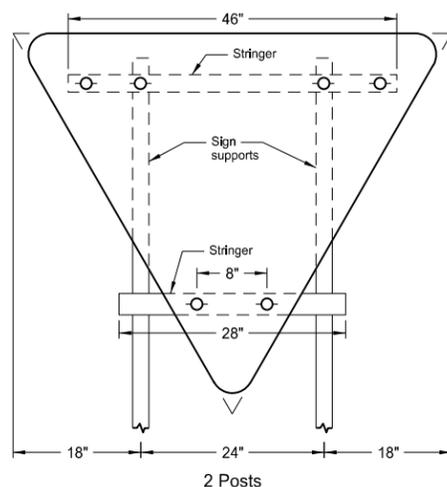
NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
12-1-10	
REVISIONS	
DATE	CHANGE

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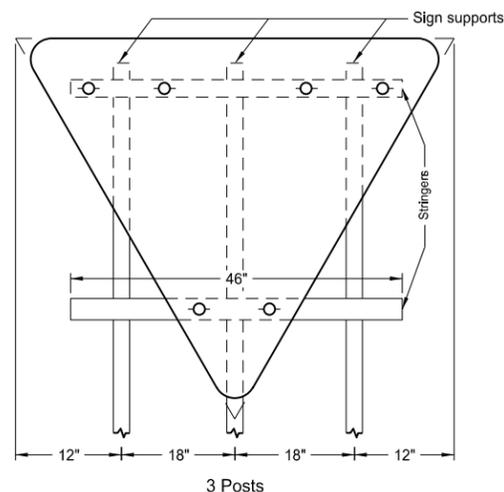
SIGN PUNCHING, STRINGER AND SUPPORT LOCATION
DETAILS REGULATORY, WARNING AND GUIDE SIGNS



1 Post



2 Posts

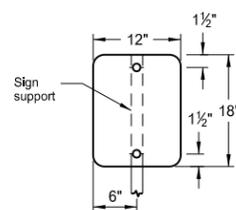


3 Posts

Assembly No. 6

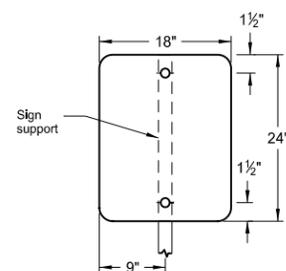
Notes:

1. See Standard D-754-25 for mounting details.
2. The minimum sign backing material thickness shall be 0.100 inch.
3. Perforated square tube stringer shall be 1½" x 1½".
4. All holes shall be punched round for ⅜" bolt.



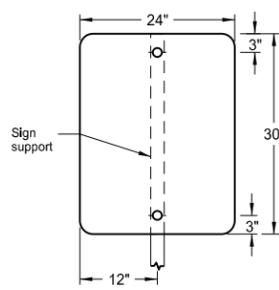
1 Post

Assembly No. 7



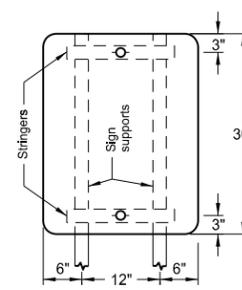
1 Post

Assembly No. 8

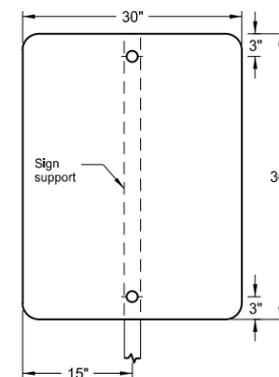


1 Post

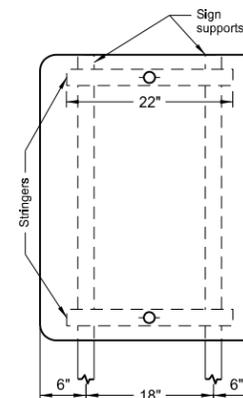
Assembly No. 9



2 Posts

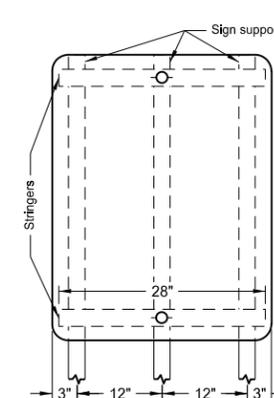


1 Post

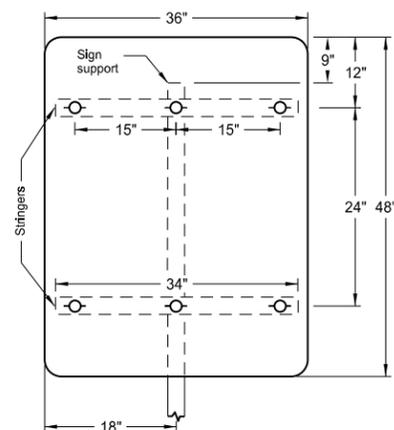


2 Posts

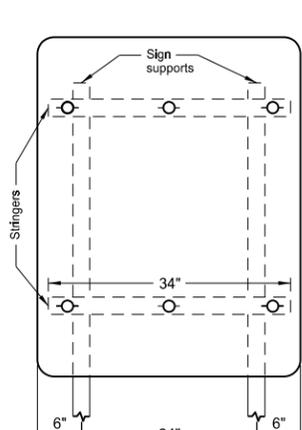
Assembly No. 10



3 Posts

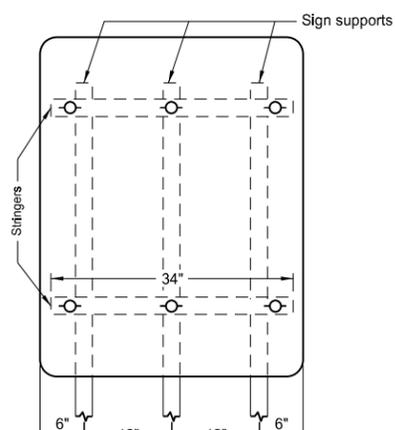


1 Post



2 Posts

Assembly No. 11

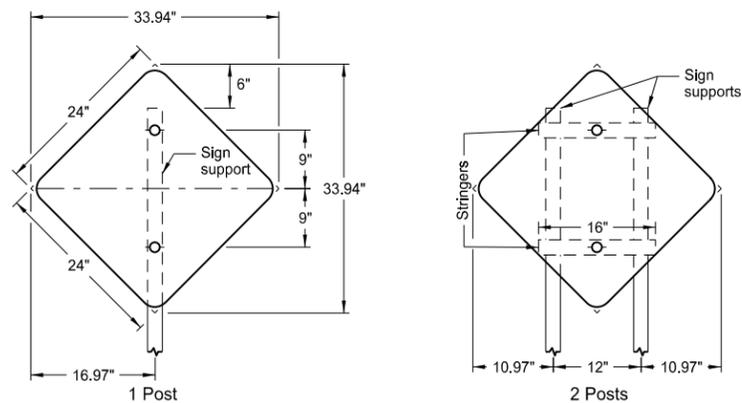


3 Posts

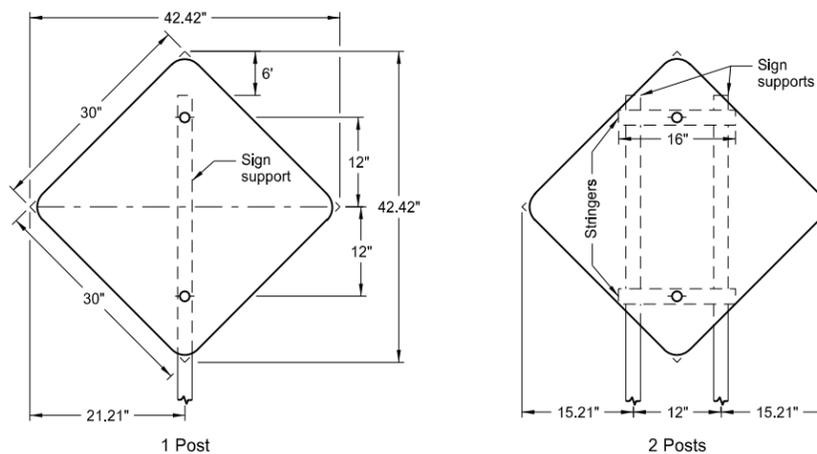
NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
12-1-10	
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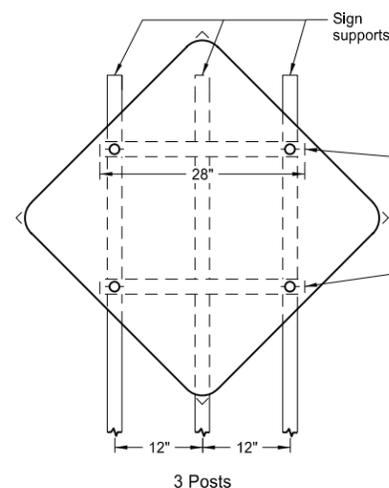
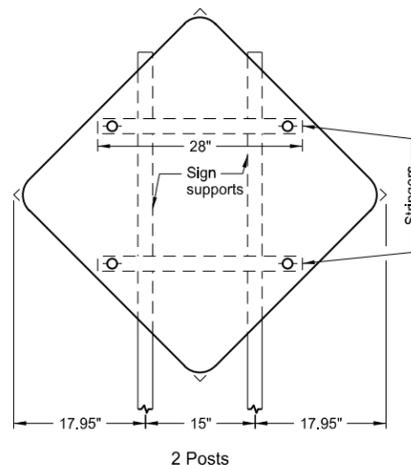
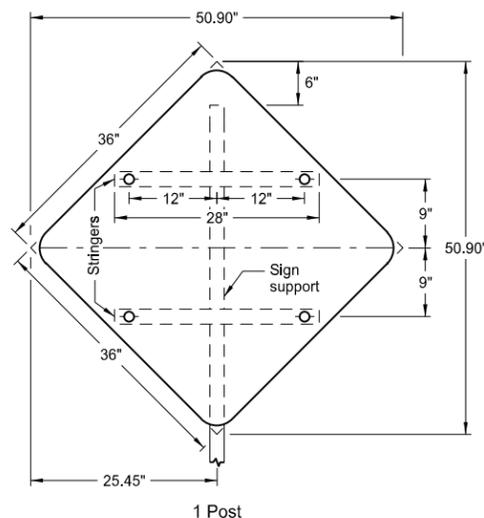
SIGN PUNCHING, STRINGER AND SUPPORT LOCATION
DETAILS REGULATORY, WARNING AND GUIDE SIGNS



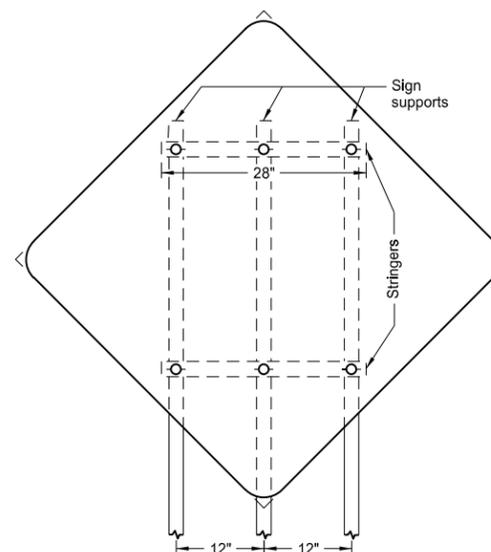
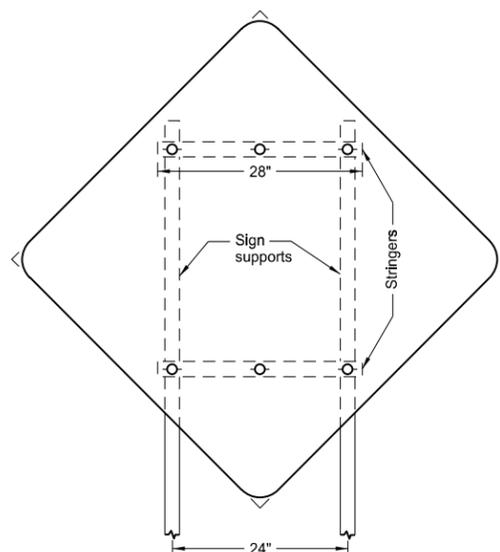
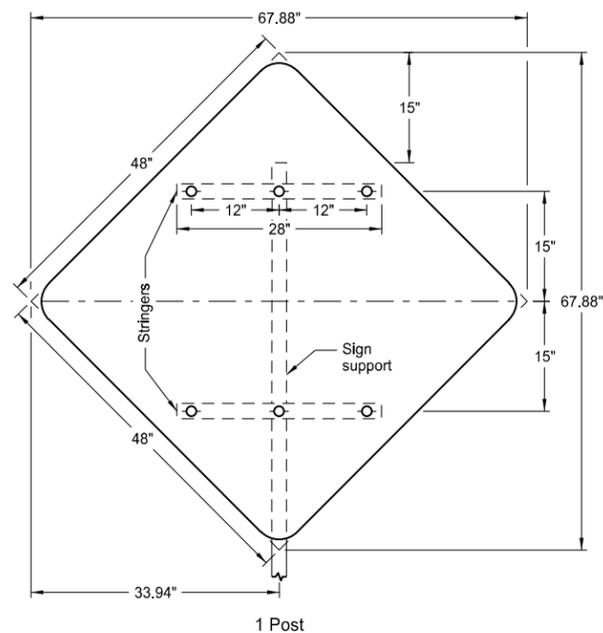
Assembly No. 18



Assembly No. 19



Assembly No. 20



Assembly No. 21

Notes:

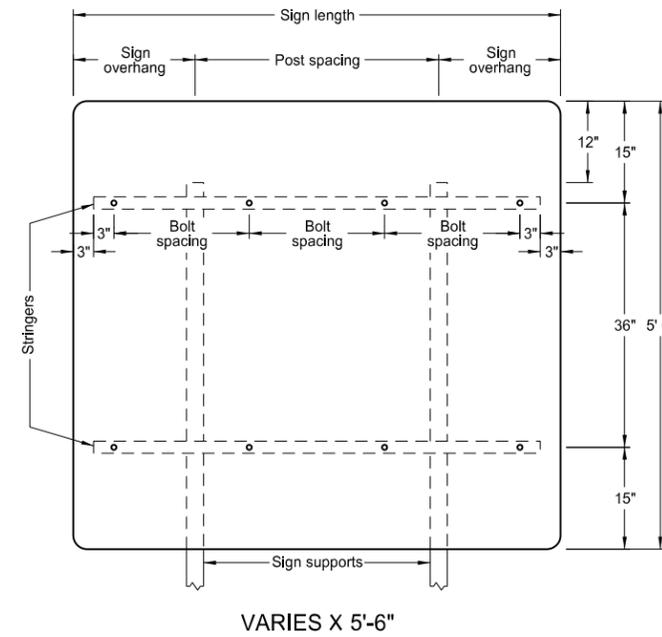
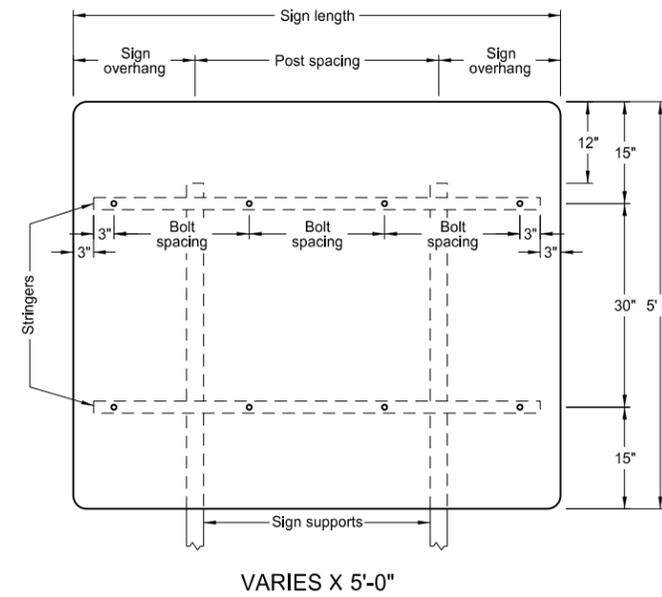
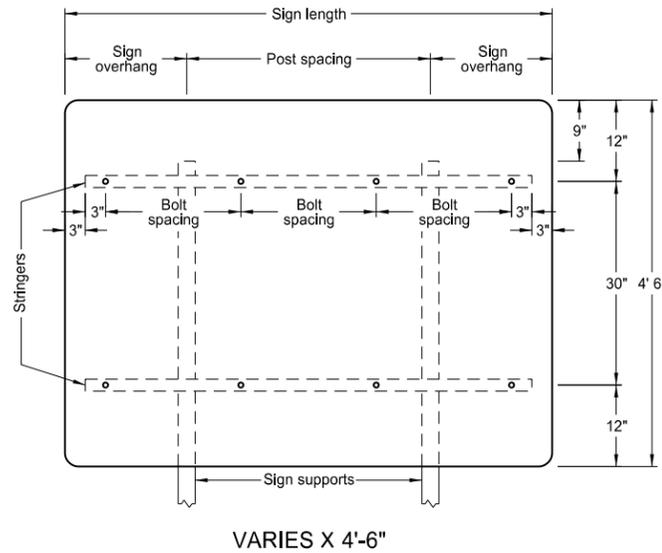
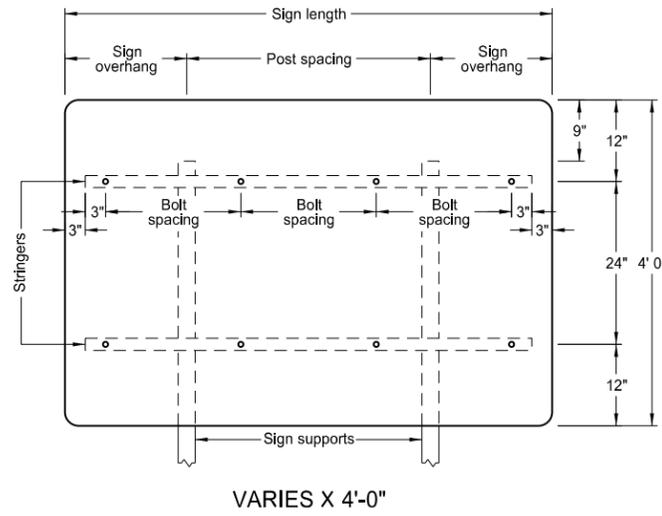
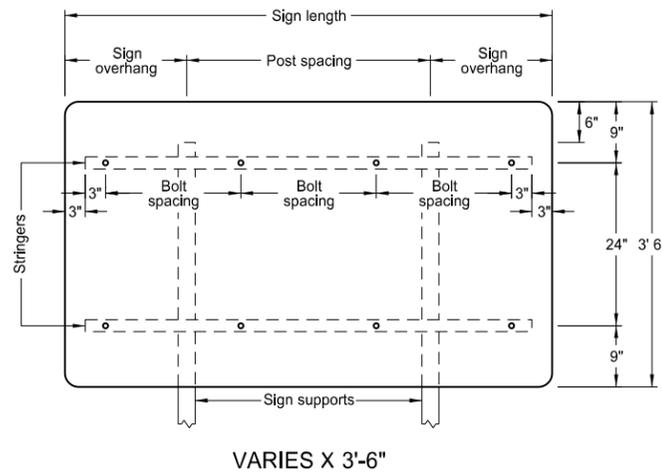
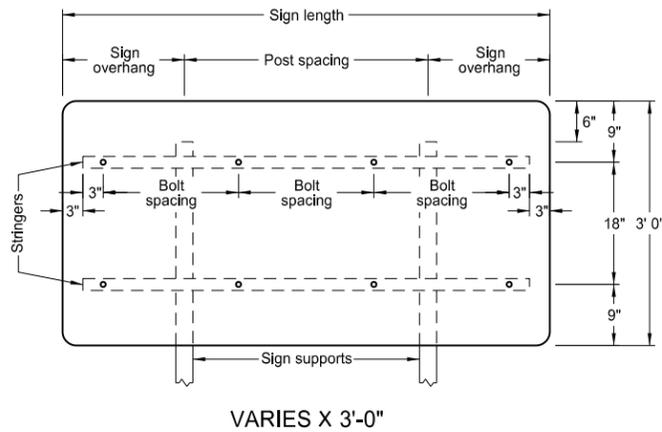
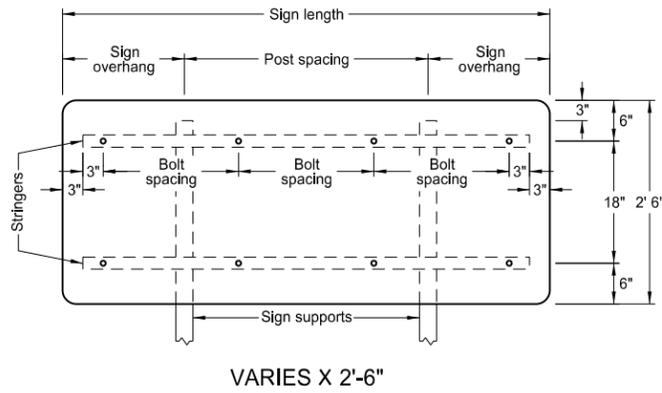
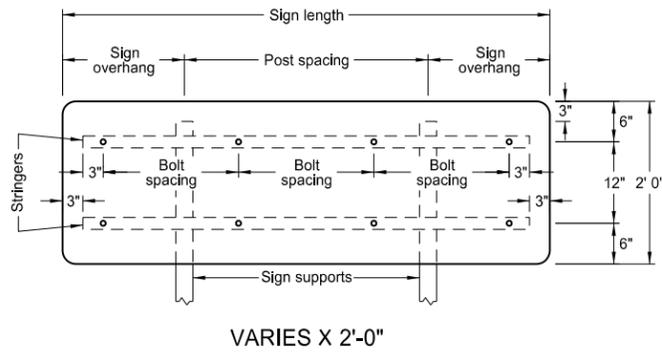
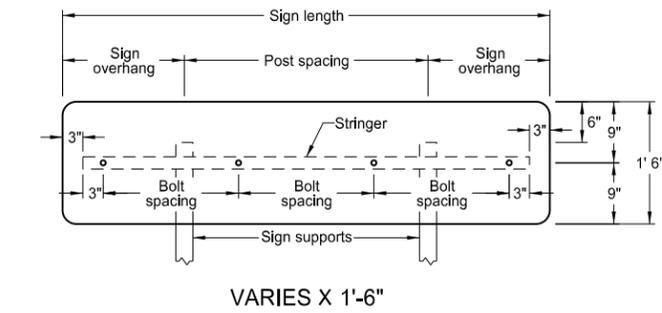
1. See Standard D-754-25 for mounting details.
2. The minimum sign backing material thickness shall be 0.100 inch.
3. Perforated square tube stringer shall be 1½" x 1½".
4. All holes shall be punched round for ⅜" bolt.

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
12-1-10	
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SIGN PUNCHING, STRINGER AND SUPPORT LOCATION DETAILS FOR VARIABLE LENGTH SIGNS

D-754-48



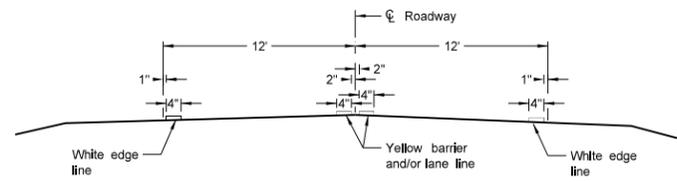
2 POSTS			
Sign Length	Sign Overhang	Post Spacing	Bolt Spacing
4'-0"	1'-0"	2'-0"	18"
4'-6"	1'-3"	2'-0"	21"
5'-0"	1'-0"	3'-0"	24"
5'-6"	1'-3"	3'-0"	18"
6'-0"	1'-6"	3'-0"	20"
6'-6"	1'-3"	4'-0"	22"
7'-0"	1'-6"	4'-0"	24"
7'-6"	1'-9"	4'-0"	2'-20" & 2'-19"
8'-0"	2'-0"	4'-0"	21"
8'-6"	1'-9"	5'-0"	2'-22" & 2'-23"
9'-0"	2'-0"	5'-0"	24"
9'-6"	1'-9"	6'-0"	4'-20" & 1'-22"
10'-0"	2'-0"	6'-0"	2'-21" & 3'-22"
10'-6"	2'-3"	6'-0"	4'-23" & 1'-22"
11'-0"	2'-6"	6'-0"	24"
11'-6"	2'-9"	6'-0"	21"
12'-0"	2'-0"	8'-0"	22"
12'-6"	2'-3"	8'-0"	23"
13'-0"	2'-6"	8'-0"	24"
13'-6"	2'-9"	8'-0"	3'-22" & 4'-21"
14'-0"	3'-0"	8'-0"	2'-23" & 5'-22"
14'-6"	3'-3"	8'-0"	6'-23" & 1'-24"
15'-0"	3'-6"	8'-0"	24"
15'-6"	2'-9"	10'-0"	6'-22" & 2'-21"
16'-0"	3'-0"	10'-0"	4'-23" & 4'-22"
16'-6"	3'-3"	10'-0"	6'-23" & 2'-24"
17'-0"	3'-6"	10'-0"	24"
17'-6"	3'-9"	10'-0"	22"
18'-0"	3'-0"	12'-0"	6'-23" & 3'-22"
18'-6"	3'-3"	12'-0"	6'-23" & 3'-24"
19'-0"	3'-6"	12'-0"	24"
19'-6"	3'-9"	12'-0"	8'-22" & 2'-23"
20'-0"	4'-0"	12'-0"	8'-23" & 2'-22"

- Notes:
1. The minimum sign backing material thickness shall be 0.100 inch.
 2. Perforated square tube stringer shall be 1½" x 1½".
 3. All holes shall be punched round for ⅜" bolt.

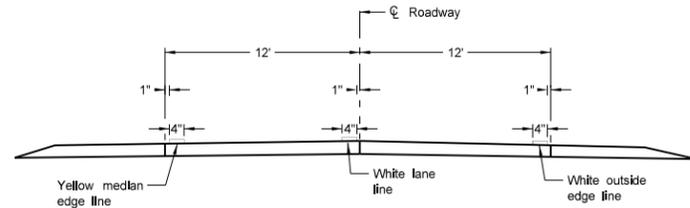
NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
9-25-12	
REVISIONS	
DATE	CHANGE

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Registration Number
PE-2930,
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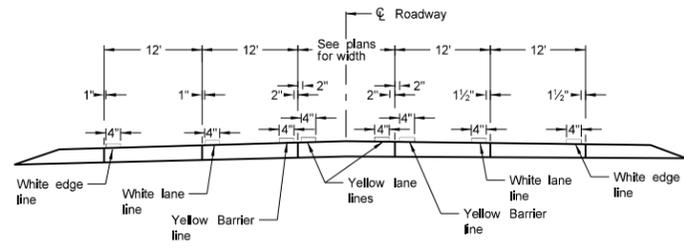
PAVEMENT MARKING



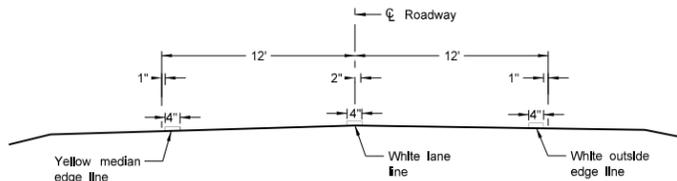
Two Lane Two Way
RURAL ROADWAY



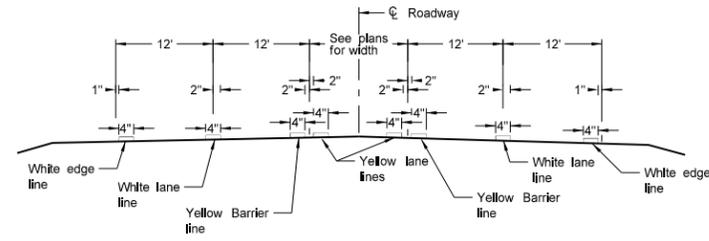
Two Lane Roadway
INTERSTATE HIGHWAY
Concrete Section



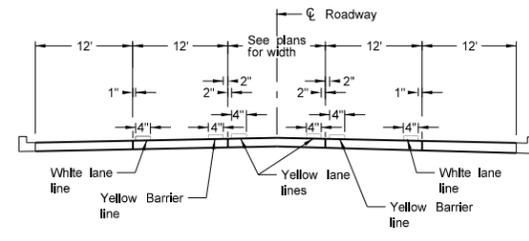
RURAL FIVE LANE ROADWAY
Concrete Section



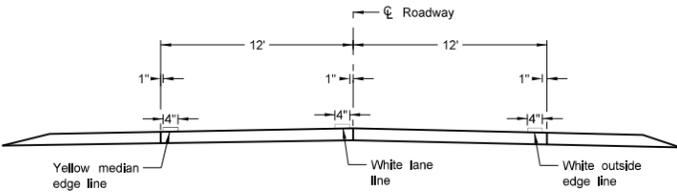
Two Lane Divided
Rural Roadway
PRIMARY HIGHWAY
Asphalt Section



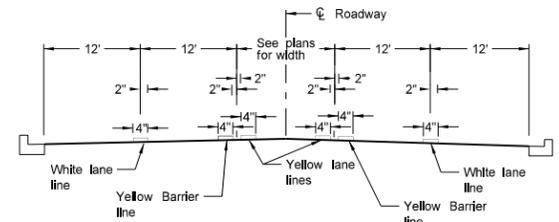
RURAL FIVE LANE ROADWAY
Asphalt Section



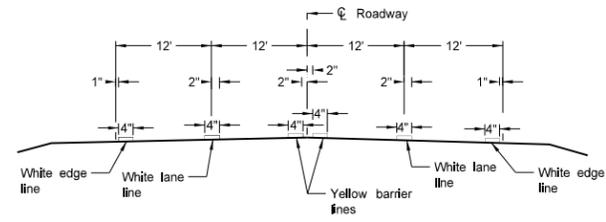
URBAN FIVE LANE SECTION
Concrete Section



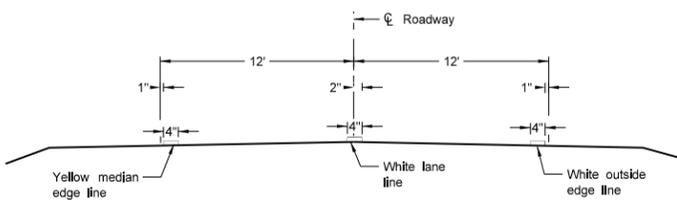
Two Lane Roadway
PRIMARY HIGHWAY
Concrete Section



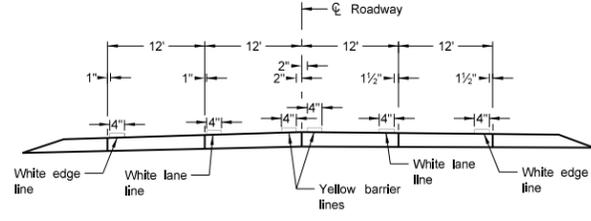
URBAN FIVE LANE SECTION
Asphalt Section



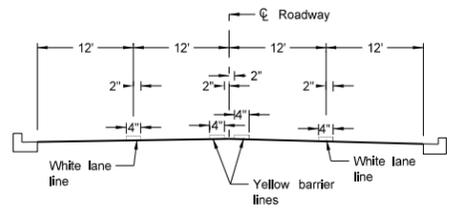
RURAL FOUR LANE ROADWAY
Asphalt Section



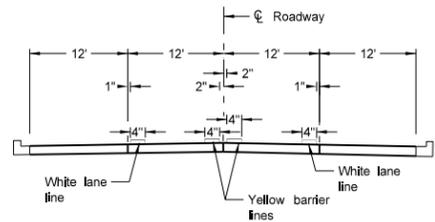
Two Lane Roadway
INTERSTATE HIGHWAY
Asphalt Section



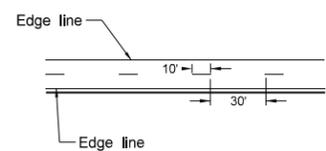
RURAL FOUR LANE ROADWAY
Concrete Section



URBAN FOUR LANE SECTION
Asphalt Section



URBAN FOUR LANE SECTION
Concrete Section



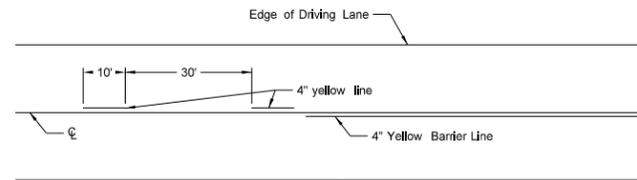
CENTERLINE PAVEMENT MARKING SKIP SPACING DETAIL

NOTES:
1. Edge lines shall be continued through private drives and field drives and broken for intersections.

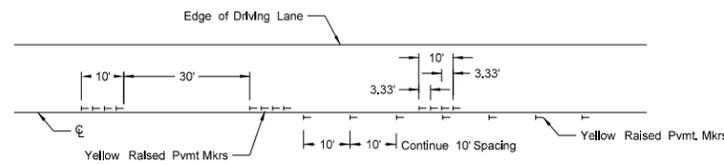
NORTH DAKOTA DEPARTMENT OF TRANSPORTATION	
12-1-10	
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SHORT-TERM PAVEMENT MARKING

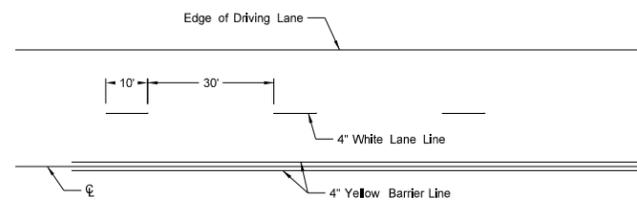


Painted or Tape Lines

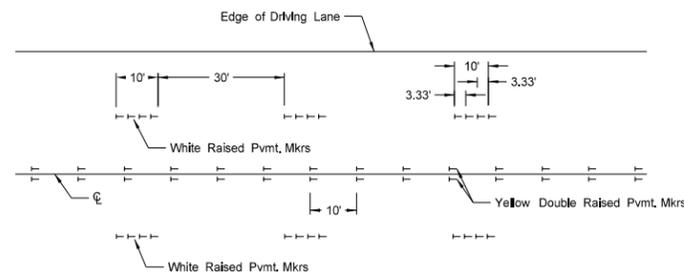


Raised Pavement Markers

TWO-LANE TWO-WAY ROADWAY

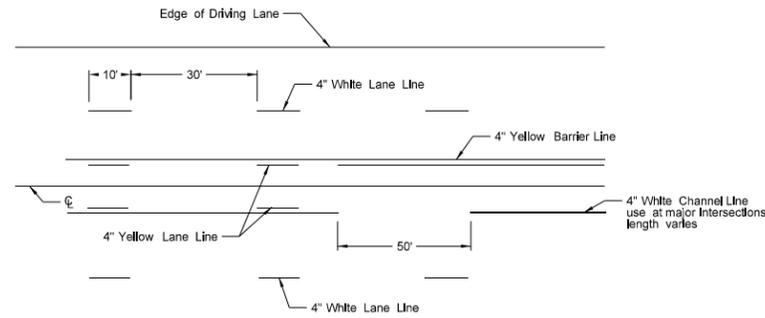


Painted or Tape Lines

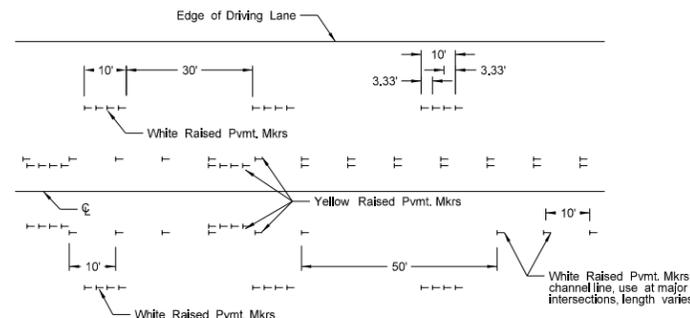


Raised Pavement Markers

FOUR LANE ROADWAY

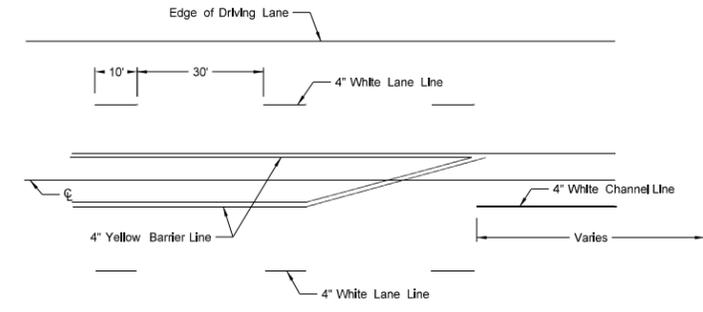


Painted or Tape Lines

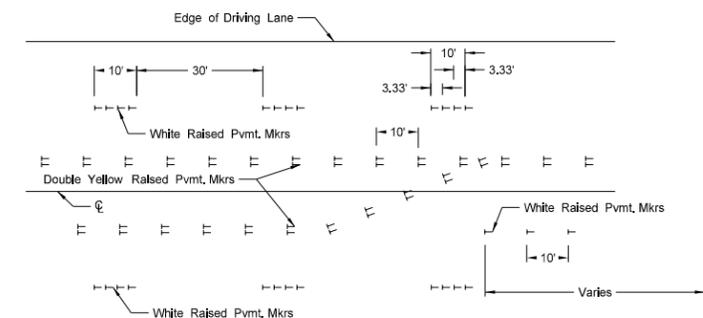


Raised Pavement Markers

FIVE LANE ROADWAY TWO WAY LEFT TURN



Painted or Tape Lines



Raised Pavement Markers

FIVE LANE ROADWAY WITH MARKED ISLANDS

NOTES:

- Two-lane two-way roadways shall have no passing zones placed as shown. No passing zone signs may be placed in lieu of short term no passing zone pavement markings. These signs will be allowed to remain in place for three days, at which time the short term no passing zone pavement marking shall be placed.
- Short term center line stripe (paint) on top lift shall be carefully placed with exact spacing so that the permanent stripe will match when applied.
- Raised markers and tape markings shall be removed after permanent pavement marking has been installed. Removed markings shall become the property of the contractor.

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