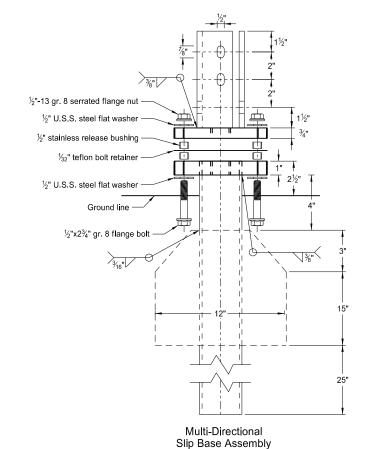


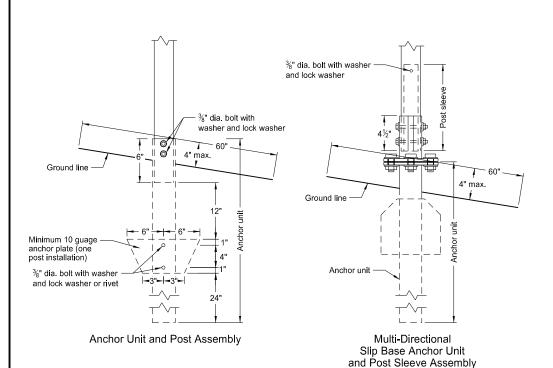
Minimum 10 guage anchor plate (two post installation)

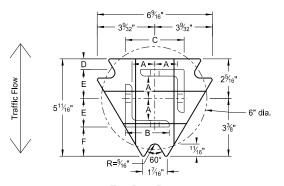
D-704-7

BREAKAWAY SYSTEMS FOR CONSTRUCTION ZONE SIGNS

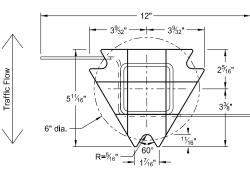
Perforated Tube



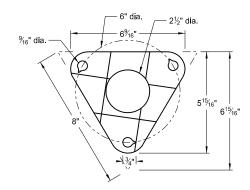




Top Post Receiver
Plate - ASTM A572 grade 50
Angle Receiver - 2½"x2½"x¾" ASTM A36 structural angle



Bottom Soil Stub
Tube - 3"x3"x7 gauge ASTM A500 grade B tube
Stabilizing Wing - 7 gauge H.R.P.O. ASTM A1011
Plate - ASTM A572 grade 50



Bolt Retainer for Base Connection Bolt Retainer- 1/32" Reprocessed Teflon

Notes:

- 1. Torque slip base bolts as specified by manufacturer.
- 2. Use anchor with 43.9 KSI yield strength and 59.3 KSI tensile strength.
- Provide 4" vertical clearance for anchor or breakaway base. Measure the 4"x60" measurement above and below post location and back and ahead of post.
- 4. In concrete sidewalk, use same anchor without wings.
- 5. Provide more than 7' between the first and fourth posts of a four post sign.

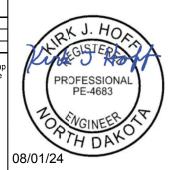
Telescoping Perforated Tube									
Number of Posts	Post Size in.	Wall Thick- ness Gauge	Thick- ness Gauge		Slip Base	Anchor Size without Slip Base in.			
1	2	12			No	21/4			
1	21/4	12			No	2½			
1	$2\frac{1}{2}$	12			(A)	3			
1	2½	10			Yes				
1	21/4	12	2	12	Yes				
1	2½	12	21/4	12	Yes				
2	2	12			No	21/4			
2	21/4	12			No	2½			
2	2½	12			Yes				
2	2½	12			Yes				
2	21/4	10	2	12	Yes				
2	2½	12	21/4	12	Yes				
3 & 4	2½	12			Yes				
3 & 4	2½	10			Yes				
3 & 4	2½	12	21/4	12	Yes				
3 & 4	21/4	12	2	12	Yes				
3 & 4	$2\frac{1}{2}$	10	2¾ ₁₆	10	Yes				

	Properties of Telescoping Perforated Tube									
Tube Size in.	Size Thickness Standa		Weight per Foot lbs.	Moment of Inertia in.4	Cross Sec. Area in.2	Section Modulus in.3				
1½ x 1½	0.105	12	1.702	0.129	0.380	0.172				
2 x 2	0.105	12	2.416	0.372	0.590	0.372				
21/4 x 21/4	0.105	12	2.773	0.561	0.695	0.499				
2¾ ₁₆ x 2¾ ₁₆	0.135	10	3.432	0.605	0.841	0.590				
2½ x 2½	0.105	12	3.141	0.804	0.803	0.643				
2½ x 2½	0.135	10	4.006	0.979	1.010	0.785				

Top Post Receiver Data Table									
Square Post A B C D E F									
2 ³ / ₁₆ "x10 ga.	1%4"	2½"	31/32"	25/32"	1 ³³ ⁄ ₆₄ "	11%"			
2½"x10 ga.	1%2"	2½"	35⁄16"	5%"	1 ² / ₃₂ "	1¾"			

- (A) Use breakaway base when support is placed in weak soils. Engineer determines if soils are weak.
- (B) For additional wind load, insert the $2\%_{16}"x10$ ga. into 2%"x10 ga.

DEPART	NORTH DAKOTA MENT OF TRANSPORTATION
	2-28-14
	REVISIONS
DATE	CHANGE
10-03-19	Updated to active voice New Design Engr PE Stam Electronic Stamp/Signature



- 2- bolts grade 5, lock nuts and

- 2- bolts grade 5, lock nuts and lock washers

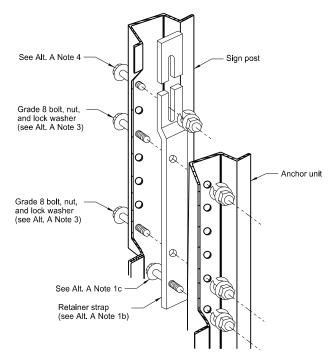
- Anchor unit

(42" min.)

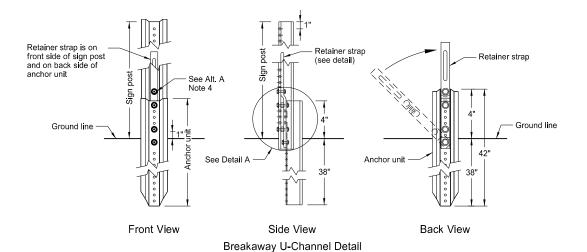
lock washers

BREAKAWAY SYSTEMS FOR CONSTRUCTION ZONE SIGNS

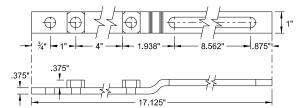
U-Channel Post



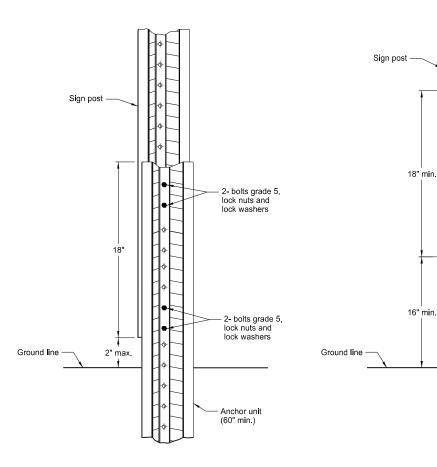
Detail A



Alternate A Install a maximum of 2 posts within 7'.



Retainer Strap Detail



Breakaway U-Channel Splice Detail Alternate B (2.5 and 3 lb/ft) Install a maximum of 3 posts within 7'.

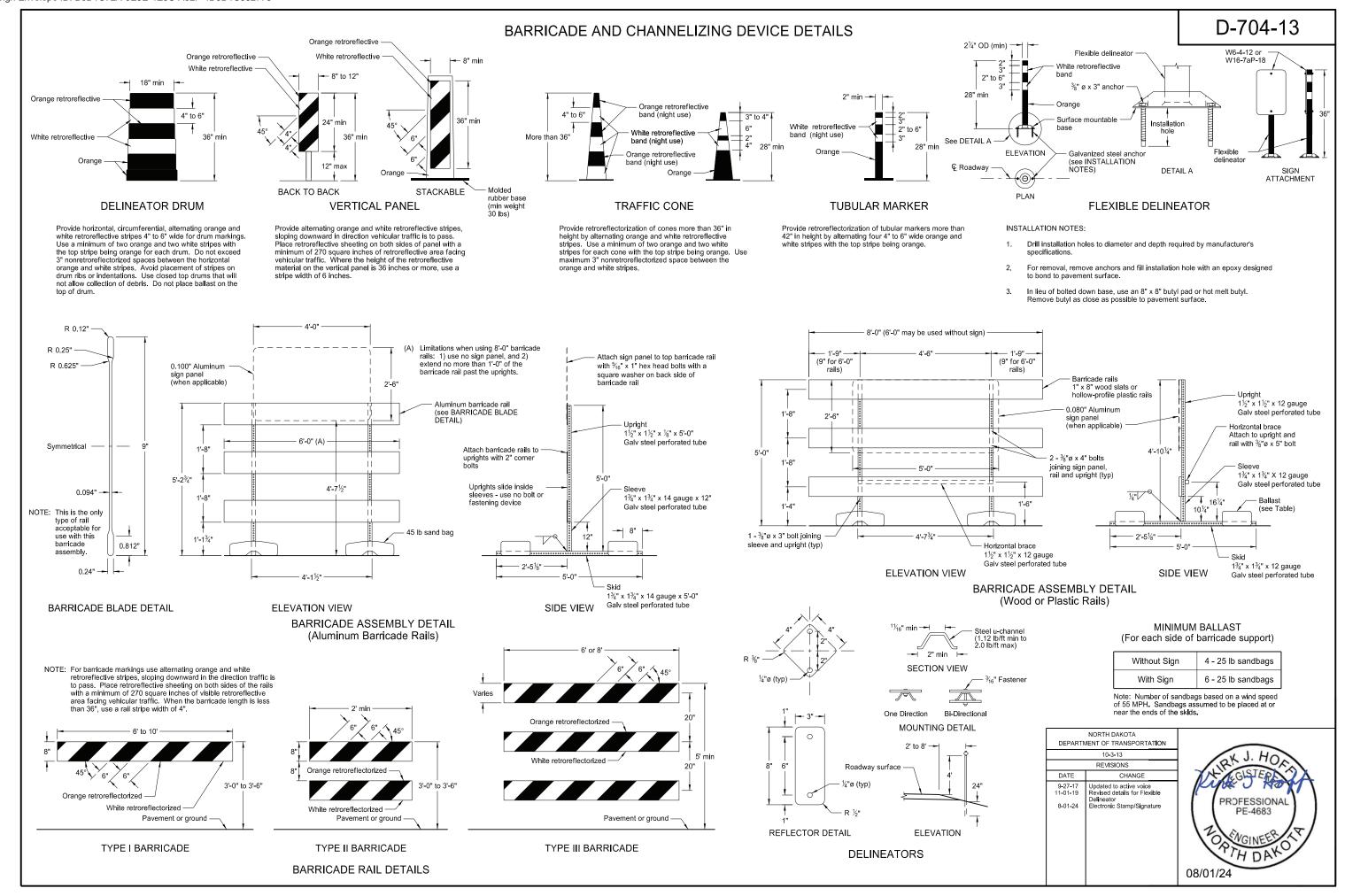
Breakaway U-Channel Splice Detail Alternate C (2.5 and 3 lb/ft) Install a maximum of 3 posts within 7'.

Alternate A Steps of Installation:

- a) Drive anchor unit to within 12" of ground level.
 b) Establish proper assembly by lining up bottom hole of retainer strap with 6th hole from the top of the anchor unit.
- c) Assemble strap to back of anchor unit using $\frac{5}{16}$ "x2" bolt, lock washer and nut.
- d) Rotate strap 90° to left.
- a) Drive anchor unit to 4" above ground b) Rotate strap to vertical position.
- 3. a) Place 5/6"x2" bolt, lock washer and nut in bottom of sign post to facilitate alignment of sign post with proper hole in anchor unit. b) Alternately tighten two connector bolts.
- 4. Complete assembly by tightening $\frac{5}{16}$ "x2" bolt (this fastens sign post to retainer strap).
- 5. Properly nest base post, strap, and sign post. Proper nesting occurs when all flat surfaces of the base post, strap, and sign post at the bolts have full contact across the entire width.

NORTH DAKOTA DEPARTMENT OF TRANSPORTAT ION					
2-28-14					
	REVISIONS				
DATE	CHANGE				
10-03-19	Updated to active voice New Design Engr PE Stamp Electronic Stamp/Signature				





Vertical clearance

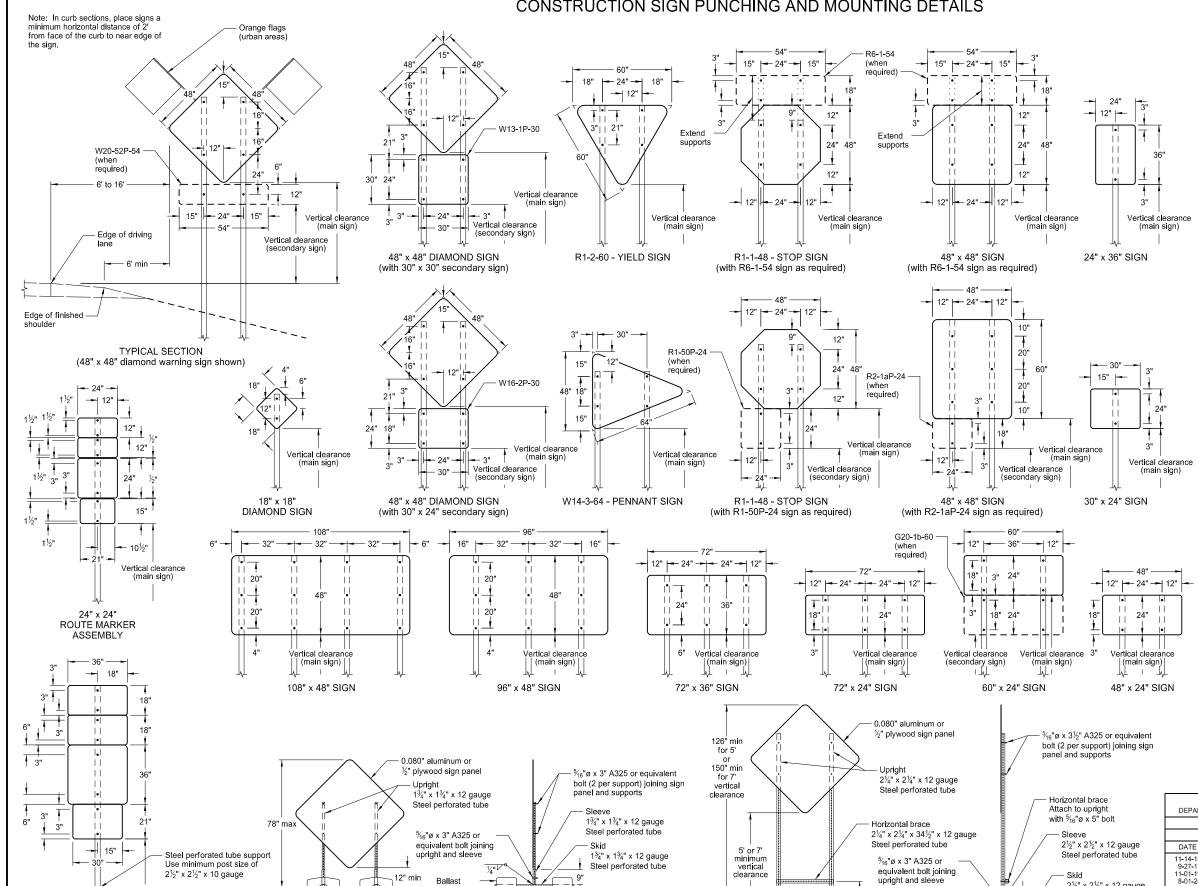
36" x 36'

ROUTE MARKER

ASSEMBLY

(main sign)

CONSTRUCTION SIGN PUNCHING AND MOUNTING DETAILS



(see Table)

PORTABLE SIGN SUPPORT

LOW-MOUNTING HEIGHT

32" ---

231/8"

1. Sign Supports: Galvanize or paint supports. Minimum post sizes are 2.5 lb/ft u-channel or 2" x 2" x 12 gauge steel perforated tube, except where noted. When installing signs on u-channel, minimum post size for assemblies containing a secondary sign is 3.0 lb/ft. Post sizes based on a wind speed

Place signs over 50 square feet on $2\frac{1}{2}$ " x $2\frac{1}{2}$ " perforated tube supports as a minimum.

Do not attach guy wires to sign supports. Attach wind beams behind sign panels when used with u-posts.

- 2. Sign Panels: Provide sign panels made of 0.100" aluminum, $\frac{1}{2}$ " plywood, or other approved material, except where noted. Punch all holes round for $\frac{3}{6}$ " bolts.
- 3 Alternate Messages: Install and remove alternate message signs on reflectorized plate (without borders) as required. (i.e. "Left" and "Right" message on lane closure sign)
- 4. Route Marker Auxiliary Signs: Provide route marker auxiliary signs, such as the cardinal direction and directional arrows, with a background and legend that match the route marker they are

Interstate - white legend on blue background Interstate Business Loop - white legend on green background US and State - black legend on white background County - yellow legend on blue background

5. Vertical Clearance: Install signs with a vertical clearance of 5'-0" (see TYPICAL SECTION.) In areas where parking or pedestrian movements are likely or the view of the sign may be obstructed, install signs with a vertical clearance of 7'-0" from the top of the curb or from the near edge of the driving lane in absence of a curb

The vertical clearance to secondary signs is 1'-0" less than the vertical clearance stated above.

Provide a minimum clearance of 7'-0" from the ground at the post for signs with an area exceeding 50 square feet.

6. Portable Signs: Provide portable signs that meet the vertical clearance stated above when it is necessary to place signs within the pavement surface.

Use of low-mounting height (minimum 12" vertical clearance) portable signs for 5 days or less, is allowed as long as the view of the sign is not obstructed. Time delays caused by unforseen circumstances, such as equipment breakdown, rain, subgrade failures, etc., will not accrue towards the 5 day period. Use of R9-8 through R9-11a series, W1-6 through W1-8 series, M4-10, and E5-1 is allowed for longer than 5 days.

Restrict signs mounted on portable sign supports shown in the LOW-MOUNTING HEIGHT and HIGH-MOUNTING HEIGHT details to a maximum surface area of 16 square feet.

MINIMUM BALLAST (For each side of sign support base)

Sign Panel Mounting Height (ft)	Number of 25 lb sandbags for 4' x 4' sign panel
1'	6
5'	8
7'	10

Note: The number of sandbags are based on a wind speed of 55 MPH. Place sandbags at or near the



2½" x 2½" x 12 gauge

teel perforated tube

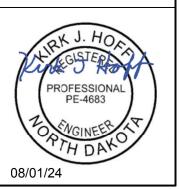
(optional)

Ballast (see Table)

PORTABLE SIGN SUPPORT

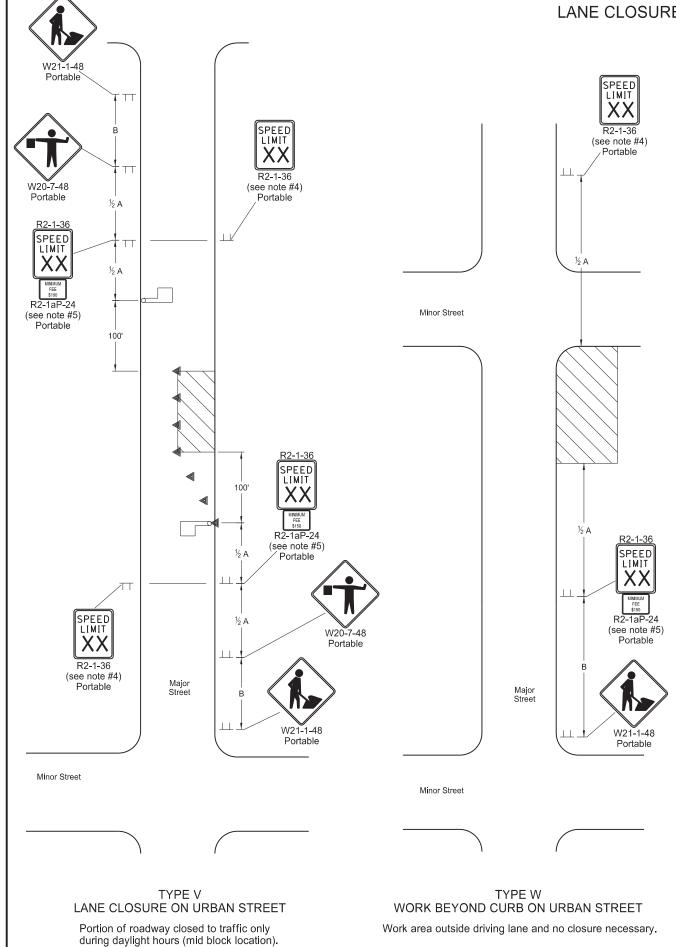
HIGH-MOUNTING HEIGHT

----- 34¾" -----

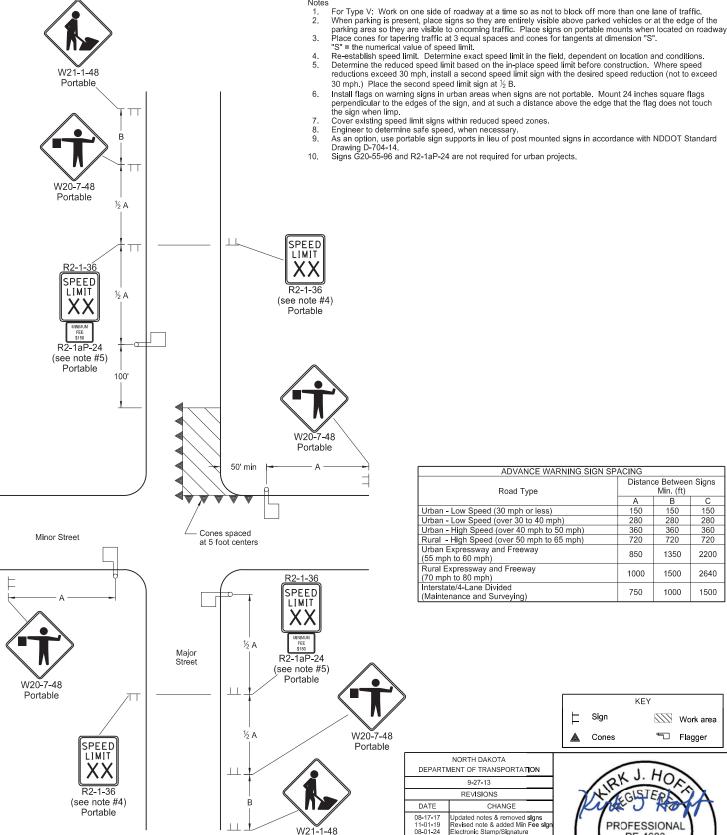


D-704-25

LANE CLOSURES ON URBAN STREETS LAYOUTS



Work area outside driving lane and no closure necessary.



ADVANCE WARNING SIGN SPACING							
Road Type	Distance Between Signs Min. (ft)						
• •	Α	В	С				
Urban - Low Speed (30 mph or less)	150	150	150				
Urban - Low Speed (over 30 to 40 mph)	280	280	280				
Urban - High Speed (over 40 mph to 50 mph)	360	360	360				
Rural - High Speed (over 50 mph to 65 mph)	720	720	720				
Urban Expressway and Freeway (55 mph to 60 mph)	850	1350	2200				
Rural Expressway and Freeway (70 mph to 80 mph)	1000	1500	2640				
Interstate/4-Lane Divided (Maintenance and Surveying)	750	1000	1500				

Sign

Cones

NORTH DAKOTA DEPARTMENT OF TRANSPORTATION 9-27-13 REVISIONS

CHANGE Updated notes & removed signs Revised note & added Min Fee si Electronic Stamp/Signature Legislative Changes 08-01-24 06-30-25

PROFESSIONAL PE-4683 06/30/25

Work area

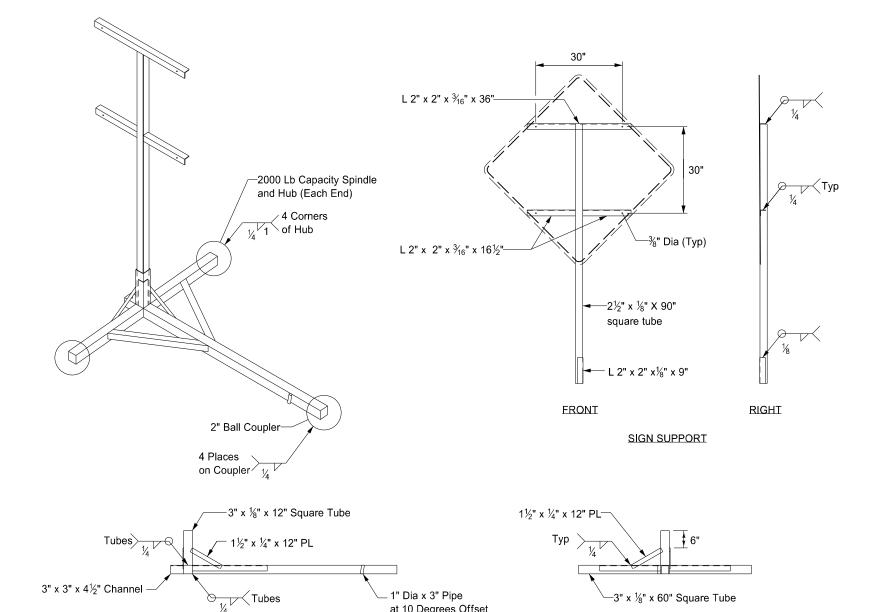
□ Flagger

Portion of roadway closed to traffic only during daylight hours (end block location).

TYPE X

LANE CLOSURE NEAR INTERSECTION ON URBAN STREET

PORTABLE SIGN SUPPORT ASSEMBLY



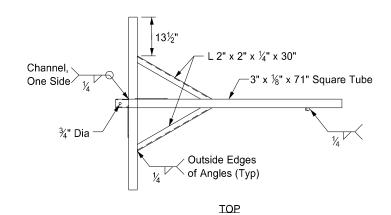
1" Dia x 3" Pipe

TRAILER

at 10 Degrees Offset

RIGHT

x 1/8" x 60" Square Tube

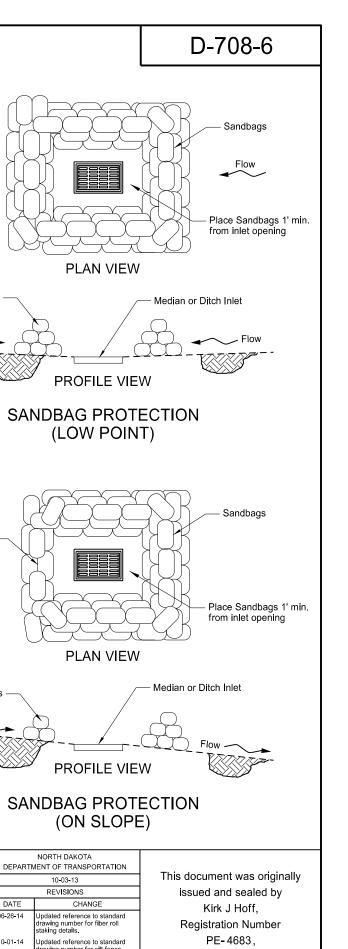


Notes:

- 1. Maximum 250 pound weight of assembly.
- Use a 14" wheel and tire.
- Use no automotive and equipment axle assemblies for trailer-mounted sign supports.
- Other NCHRP 350 or MASH crash tested assemblies are acceptable.







on 8-27-19 and the original

document is stored at the North Dakota Department

of Transportation

Sandbags

Overflow Section

Flow

Sandbags

DATE

10-01-14

10-17-17

dated to active voice. w Design Engineer PE Stamp.



Overlap Fiber Roll ends 12" minimum and tie together

- 2" X 2" nominal X 24"

Entrench Fiber Roll

Fiber Roll ends overlapped

perimeter of culvert opening

Toe of Ditch Inslope

Stake fiber roll along

For culvert diameters less than 42 in. use

For culvert diameters 42 in. or greater use

Entrench Fiber Roll

"Fiber Rolls 12IN".

wood stake

Inlet Protection-Fiber Roll 6IN or Inlet Protection-Fiber Roll 12IN

Fiber Roll Stake

PLAN VIEW

PROFILE VIEW

FIBER ROLL PROTECTION

(MEDIAN OR DITCH INLET)

Centerline or Approach Culvert

PLAN VIEW

Toe of Ditch Inslope

PROFILE VIEW

FIBER ROLL PROTECTION

(INLET OF CULVERT)

Stake fiber roll along perimeter of culvert opening

Median or Ditch Inlet

See Standard

staking details

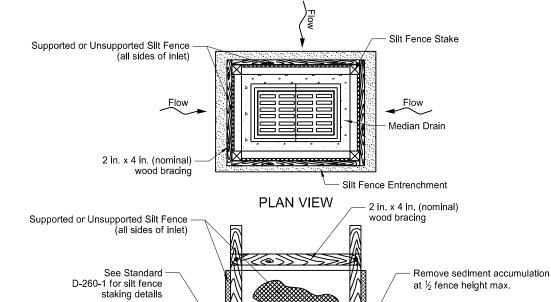
D-261-1 for fiber roll

See Standard D-261-1 for fiber

Embankment -

Culvert End Section

roll staking details

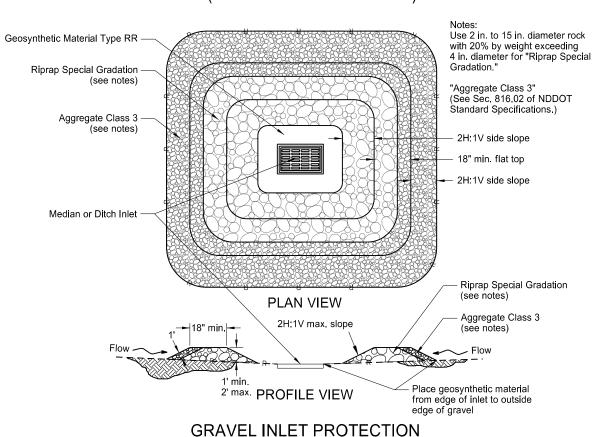


PROFILE VIEW

Median Drain

Entrench Silt Fence

SILT FENCE PROTECTION (MEDIAN OR DITCH INLET)



(MEDIAN OR DITCH INLET)

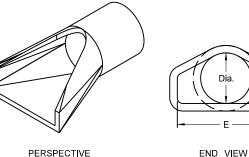
D-714-1

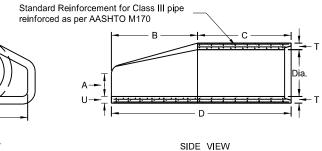
FLARED END SECTION TERMINAL DIMENSIONS DIA Ε Α В С D U 12 0'-4" 2'-0" 4'-01/8" 6'-01/8" 2'-0" 2" 15 21/4" 3'-10" 2'-6" 0'-6" 2'-3" 6'-1" 0'-9" 3'-10" 6'-1" 3'-0" 21/2" 2'-3" 3'-6" 2¾" 21 0'-9" 3'-0" 3'-1" 6'-1" 3" 24 0'-91/2" 3'-71/2" 2'-6" 6'-11/2" 4'-0" 4'-6" 3¼" 27 4'-0" 0'-101/5" 2'-11/5" 6'-11/5" 30 1'-0" 4'-6" 1'-7¾" 6'-1¾" 5'-0" 31/2" 2'-9" 36 1'-3" 5'-3" 8'-0" 4" 6'-0" 42 1'-9" 5'-3" 2'-9" 8'-0" 6' 6" 41/2" 8'-0" 48 2'-0" 6'-0" 2'-0" 7'-0" 54 2'-3" 5'-5" 2'-91/4" 8'-21/4" 7'-6" 51/2" 2'-11" 3'-3" 5'-0" 8'-3" 8'-0" 66 2'-6" 6'-0" 2'-3" 8'-3" 8'-6" 51/2" 3'-0" 1'-9" 8'-3" 9'-0" 6'-6" 3'-0" 6½" 78 1'-9" 7'-6" 9'-6" 9'-3" 3'-0" 7'-61/2" 1'-9" 9'-31/2" 10'-0" 6½" 11'-0" 6½" 90 3'-5" 2'-0" 7'-31/2" 9'-31/2"

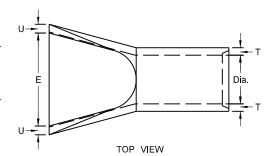
	TRAVERSABLE END SECTION									
	D I A	В	С	D E		R	s			
	15"	4'	9"	4'-9"	1'-7½"	3"	6			
Г	18"	5'-9"	9"	6'-6"	1'-11"	3"	6			
	24"	6'	1'	7'	2'-6"	3"	4			
	30"	7'-6"	1'	8'-6"	3'-1"	3½"	4			
	36"	7' - 3"	15"	8'-6"	3'-8"	3"	4			

Dia of inches	ona	e_⊒	р	рı	∀a∏
Dia	ross-Sectional Water Area	per Na	t End Aax.	τ. End	lσ
Internal pipe in	ss-S /ater	leight foot of Std	Joint n M	Joint P Tongue Min.	inimum \
pip	ő≤ O	Me	SM	To	Minimum Thicknes
Dia	Sq. ft.	Lbs.	In,	In.	In.
12	0.79	92	15/8-23/8	3/4	2
15	1.23	127	134-234	7∕8	21/4
18	1.77	168	11/8-21/8	1	21/2
21	2.40	214	11/8-31/8	11/8	2¾
24	3.14	265	2¾-3¾	11//8	3
27	3.98	322	2¾-4	1¼	31/4
30	4.91	384	31/4-41/4	1¼	31/2
33	5.94	452	31/4-41/4	1½	3¾
36	7.07	524	31/4-41/4	1½	4
42	9.62	685	3¾-4¾	1¾	41/2
48	12.57	685	35/8-43/4	1%	5
54	15.90	1070	41/8-51/4	2	5½
60	19.63	1296	41/2-51/2	21/4	6
66	23.76	1542	5-6	25/8	6½
72	28.27	1810	5%-6¾	21/8	7
78	33.18	2098	61/4-71/4	21/8	7½
84	38.48	2410	55/8-73/4	33/8	8
90	44.18	2793	6¾-8½	31/8	8½
96	50.27	3092	7-81/4	3½	9
102	56.75	3466	7-81/4	3½	9½
108	63.62	3864	71/4-81/2	3¾	10

REINFORCED CONCRETE PIPE CULVERTS AND END SECTIONS (Round Pipe)

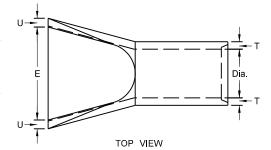






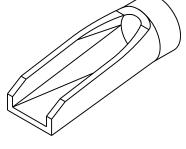
REINFORCED CONCRETE PIPE - FLARED END SECTION

Reinforcement to be equivalent to Class III RCP

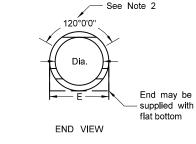


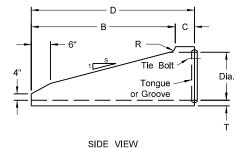
NOTES:

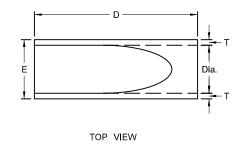
- 1. All reinforcing steel shall meet AASHTO M170 requirements.
- 2. All circular, longitudinal, and elliptical reinforcement shall be assembled and securely fastened in cage fashion so as to maintain reinforcement in exact shape and correct positions within the forms.
- 3. Laying length of pipe: 12" to 66" (incl.) = not less than 4 feet 66" to 108" (incl.) = not less than 6 feet
- 4. Joints shall be sealed with rubber gaskets or with sealer approved by the engineer whenever pipe are specified for storm drain or sanitary sewers.
- 5. For Class IV and Class V reinforced concrete pipe and end section sizes which do not have reinforcement specified by AASHTO M170, shop drawings and design calculations shall be prepared and sealed by a Professional Engineer and submitted for the Engineer's review.



PERSPECTIVE



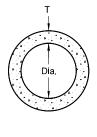




NOTES (Traversable End Section):

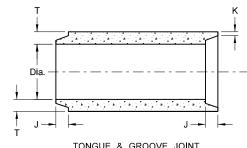
- 1. Manufactured in accordance with applicable portions of ASTM C76/AASHTO M170.
- Reinforcement per Class III RCP with double reinforcement in the upper 120° of the full barrel portion.

REINFORCED CONCRETE PIPE - TRAVERSABLE END SECTION Reinforcement to be equivalent to Class III RCP

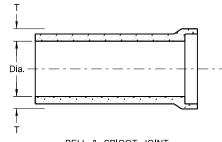




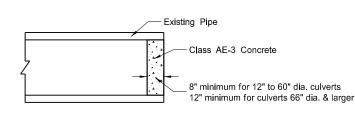
CIRCULAR PIPE



TONGUE & GROOVE JOINT



BELL & SPIGOT JOINT



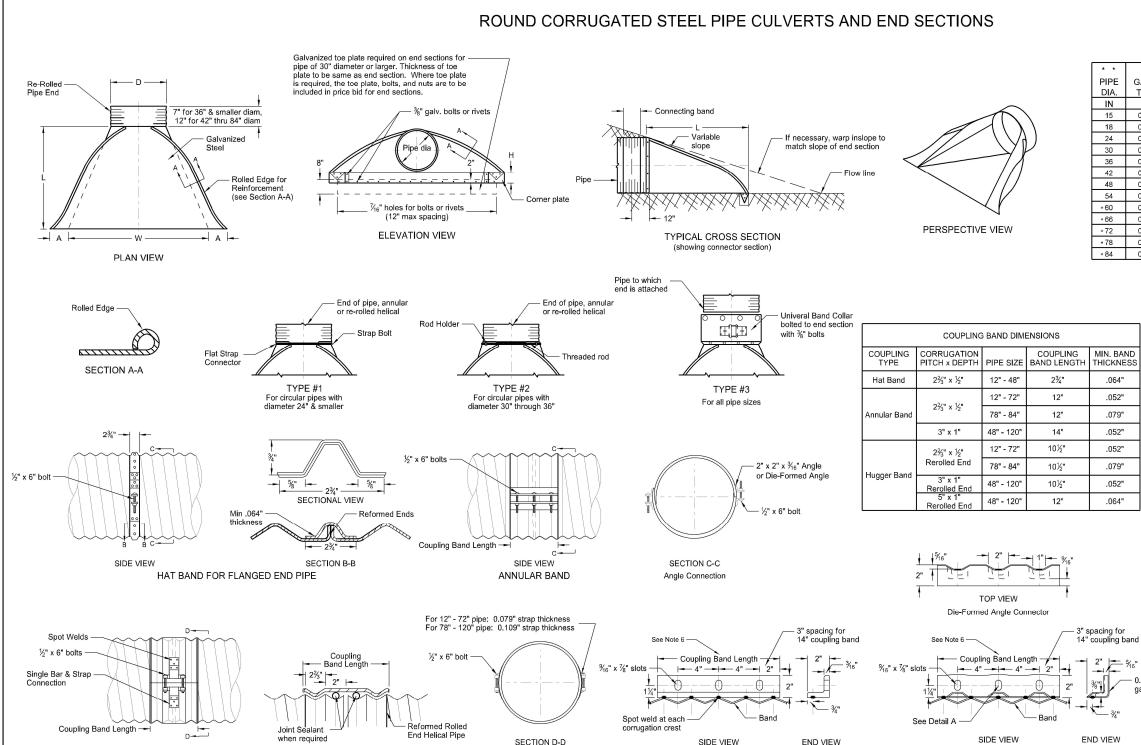
CONCRETE PIPE PLUG

JOINTS FOR REINFORCED CONCRETE PIPE

SEE STANDARD DRAWING D-714-22 FOR DETAILS OF CONCRETE PIPE TIES (TIE BOLTS).

	NORTH DAKOTA
DEPARTM	IENT OF TRANSPORTATION
	05-12-14
	REVISIONS
DATE	CHANGE
11-21-16	Revisad Note 5 Revisad End Section Dimensions Updated Perspective View Details

This document was originally issued and sealed by Jon Ketterling Registration Number PE-4684, on 9/18/19 and the original document is stored at the North Dakota Department of Transportation



* * PIPE	GALVANIZED	END	SECT	APPROX.	BODY			
DIA.	THICKNESS	Α	В	Н	L	W	SLOPE	5051
IN	IN	IN	IN	IN	IN	IN	RATE	PIECE
15	0.064 - 0.079	7	8	6	26	30	2½:1	1
18	0.064 - 0.109	8	10	6	31	36	2½:1	1
24	0.064 - 0.109	10	13	6	41	48	2½:1	1
30	0.064 - 0.109	12	16	8	51	60	2½:1	1 or 2
36	0.064 - 0.109	14	19	9	60	72	2½:1	2
42	0.064 - 0.138	16	22	11	69	84	2½:1	2
48	0.064 - 0.168	18	27	12	78	90	21/4:1	2
54	0.064 - 0.168	18	30	12	84	102	2:1	2
* 60	0.064 - 0.168	18	33	12	87	114	1¾:1	3
* 66	0.064 - 0.168	18	36	12	87	120	1½:1	3
* 72	0.064 - 0.168	18	39	12	87	126	1½:1	3
* 78	0.064 - 0.168	18	42	12	87	132	11/4:1	3
* 84	0.064 - 0.168	18	45	12	87	138	1%:1	3

- * These sizes have 0.109" sides and 0.138" center panels.
- * * Pipe diameter is equal to dimension "D" of end section.

Manufacturers tolerances of above dimensions will be allowed.

Splices to be the lap riveted type.

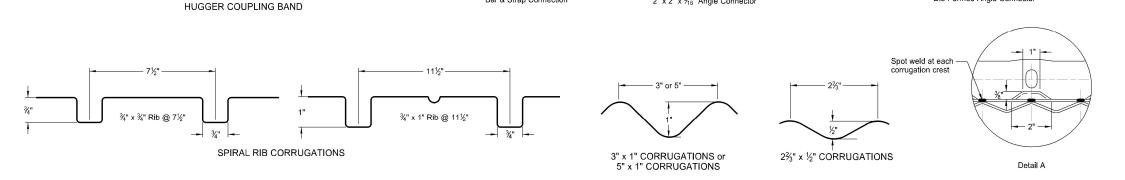
Multiple panel bodies shall have lap seams which are to be tightly joined with $\frac{\pi}{2}$ dia. galv. bolts or rivets. Nuts to be torqued to 25 foot-lbs \pm .

NOTES:

- Pipes and connecting bands shall conform to applicable sections of NDDOT Standard Specifications and to
 AASHTO M-36
- 2. Top edge of all end sections to have rolled edges for reinforcement (see Section A-A). The reinforced edges are to be supplemented with 2" x 2" x ½" galv. angle for 60" through 72" dia. and 2½" x 2½" x ½" galv. angle for 78" and 84" dia. Angles to be attached by galv. ¾" dia. bolts and nuts. Angles are to extend from pipe to the corner wing bend.
- Elongated pipes shall be factory preformed so that the vertical diameter shall be 5% greater and the horizontal diameter 5% less than a circular pipe.
- Coupling bands shall be two-piece for pipes larger than 36" as shown in Section C-C & D-D details. For pipes 36" and smaller, a one-piece band is acceptable.
- 5. ½" x 8" bolts may be used as a substitute for the ½" x 6" bolts shown in the details.
- Coupling bands wider than 14" may be used if a minimum of four ½" bolts with maximum spacing of 5½" are used for the connection.
- 7. Length of spot welds shall be minimum $\frac{1}{2}$ ".

— 0.109" thick

Die-Formed Angle Connector

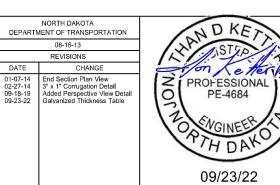


2" x 2" x 3/6" Angle Connector

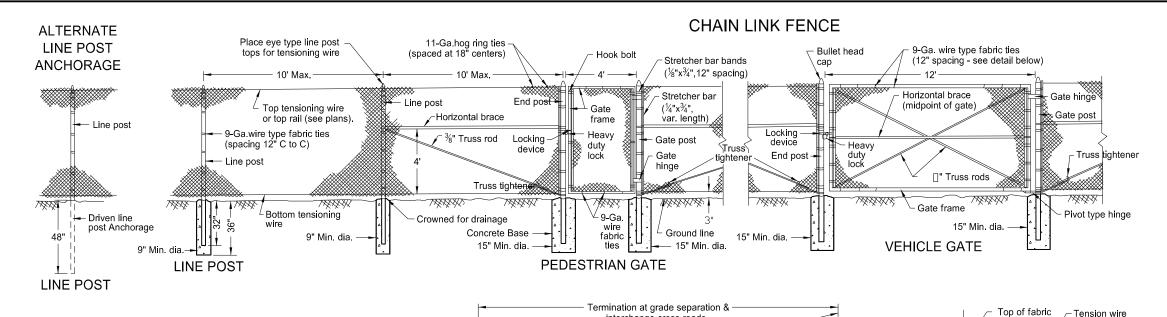
Bar & Strap Connection

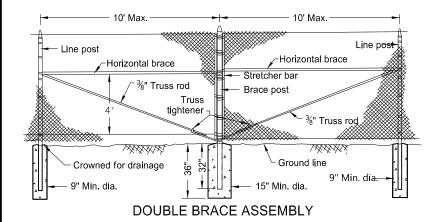
SIDE VIEW

SECTIONAL VIEW



0





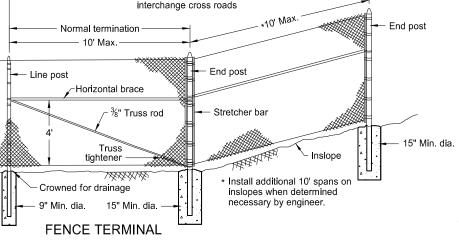
Line post

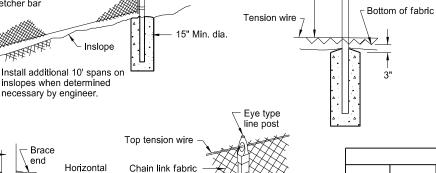
 $^{\perp}$ 9" Min. dia.

Truss rod

Truss

tightener





9-Ga wire type

Varies

Top of concrete TRUSS ATTACHMENT

Post-

Brace

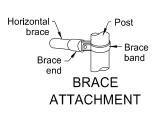
band

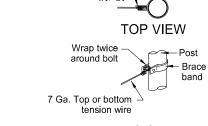
BRACE & TRUSS ATTACHMENT

- 3/8" Truss rod

TOP VIEW

"H" COLUMN POST





4 Wraps min around

LINE POST TOP DETAIL

TENSION WIRE ANCHORAGE



WIRE TYPE FABRIC TIE DETAIL

NOTES:

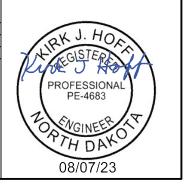
- 1. Install double brace assemblies at locations shown on the plans or established by the Engineer. Place adjacent fence terminals, corner assemblies, or double brace assemblies at a maximum spacing of $1000\,$ feet. No deduction in measured pay length of chain link fence for gates, corner assemblies, double brace assemblies, or fence terminals,
- 2. Provide miscellaneous fittings of the type and size recommended by the manufacturer of the fence and approved by the Engineer.
- 3. Use 6' High fabric unless otherwise shown on the plans.
- 4. Use Class YE concrete for post bases in accordance with Sec. 802 of the Standard Specifications. Use size No. 4 or 5 course aggregate for concrete mix, but do not change during the work, except by Engineer's written permission.
- 5. Use any of the types of posts shown in the table of equivalent post sizes and weights for the specified use.
- 6. Do not connect private fences to highway right-of-way fence.
- 7. Use a concrete anchorage for all end, corner, and brace posts, and for first line post(s) adjacent to terminal posts.

	EQUIVALENT POST SIZES AND WEIGHTS												
USE		RC	OUND STE	EL	ROLL FORMED			"H" COLUMN STEEL					
OF	FABRIC HEIGHT	Size	Weight -	Lbs./Ft.	Si	ze	Weight	Size		Weight			
POST	ПЕІВПІ	Out. Dia.	Grade 1	Grade 2	Α	В	Lbs./Ft.	Α	В	Lbs./Ft.			
LINE	6' or less	1.900"	2.72	2.28	1.875"	1.625"	2.40	2.25"	1.70"	3.26			
POST	Over 6'	2.375"	3.65	3.12	2.25"	1.70"	2.78	2.25"	1.70"	3.26			
END or	6' or less	2.375"	3.65	3.12									
ORNER	Over 6'	2.875"	5.79	4.64									
BRACE	6' or less	2.375"	3.65	3.12	P	OLL FOR	MED	"H" COLUMN					
POST	Over 6'	2.875"	5.79	4.64									
GATE	6' or less	3.500"	7.58	5.71	٤	STEEL PC	SIS	S	TEEL PO	STS			
POST	Over 6'	4.000"	9.11	6.56	NC	OT PERM	ITTED	NOT PERMITTED					
XTERIOR	Gate width 6' or less	1.660"	2.27	1.84									
FRAME OR GATE	Gate width over 6'	1.900"	2.72	2.28									
ORIZONTAL BRACE	All	1.660"	2.27	1.84	1.625"	x 1.25"	1.35						



DEPARTMENT OF TRANSPORTATION		
8-5-09		
REVISIONS		
DATE	CHANGE	
9-28-10 10-17-17 8-07-23	Revised Equivalent Post Sizes and Weights, details, & notes. Updated to active voice. Update Design Engr PE Stamp.	

NORTH DAKOTA



A -	1.625" 1.25"
LINE POST	TOP & BRACE RAII
FU31	DRACE RAIL

10, Wax.

Corner post

Truss

15" Min. dia.

CORNER ASSEMBLY

Line pes

9" Min. dia.

ROLL FORMED POST



Top & bottom

Post-

AT TERMINAL POSTS

HOG RING

FASTENER DETAIL

11-Ga. hog ring ties

Truss

band

3/8" Truss rod

Truss -

Chain link

fabric

finish

Knuckled -