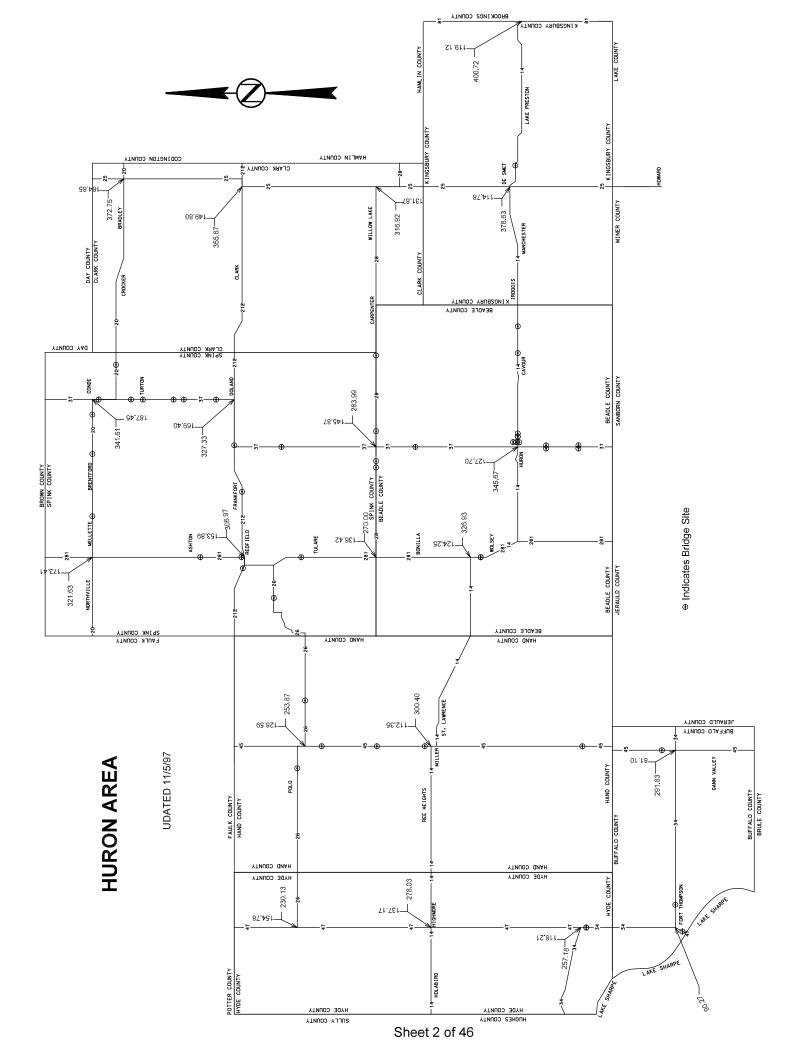
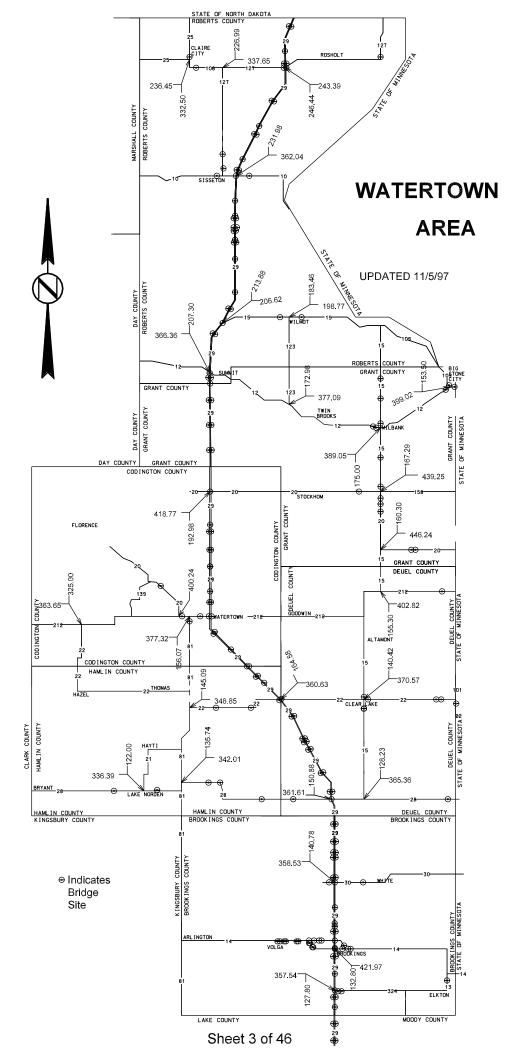
Sheet 1 of 46





BEADLE, BROOKINGS, BROWN, BUFFALO, CLARK, CODINGTON, DAY, DEUEL, EDMUNDS, FAULK, GRANT, HAMLIN, HAND, HYDE, KINGSBURY, MCPHERSON, MARSHALL, MOODY, ROBERTS, AND SPINK COUNTIES

CONTRACT PROVISIONS

- 1. The Contract will become effective beginning July 1, 2011 and will expire on June 30, 2012.
- 2. Guardrail repairs will be limited to Interstate and State Highways within the boundaries of Beadle, Brookings, Brown, Buffalo, Clark, Codington, Day, Deuel, Edmunds, Faulk, Grant, Hamlin, Hand, Hyde, Kingsbury, McPherson, Marshall, Moody, Roberts, and Spink Counties.
- 3. Standard Specifications for Roads and Bridges, 2004 Edition and Required Provisions, Supplemental Specifications and/or Special Provisions as included in the Proposal shall apply to this contract. Guardrail repair shall conform to current Department of Transportation Standards or as directed by the Engineer.
- 4. The quantities shown on the SDDOT CONTRACT PROPOSAL are estimated quantities only, based upon previous years quantities. The actual amount of work accomplished may vary greatly from the quantities shown. There will be NO negotiation of contract unit bid prices for over-runs or underruns.
- 5. All repair items shall be furnished new by the Contractor. Should some guardrail items be required that are not bid, the Contractor will be paid for invoice cost of the item(s) plus shipping charges, taxes and ten percent for profit. Approval from the Area Engineer will be required prior to the purchase of non-bid item materials.
 - All costs to furnish and install new bolts, nuts, washers, nails, and other miscellaneous items shall be incidental to the various other bid items.
 - All damaged and replaced materials shall become the property of the Contractor for his disposal.
- 6. Any damage to the roadway surfacing, embankment, vegetation, signing, etc. which occurs during guardrail repair operations shall be repaired and/or restored by the Contractor, at no expense to the State, and to the satisfaction of the Engineer.
- 7. The Contractor will be notified at such time as repairs are required. The Contractor shall complete all necessary repairs within twenty-one (21) calendar days after notification. For each day after the 21 calendar day limitation, the Contractor will be assessed liquidated damages at the rate of \$200.00 per day.
 - The Contractor shall inform the Engineer of the work schedule for guardrail repairs and any changes in the work schedule shall be provided per Section 5.11 of the Standard Specifications.
- 8. Definition of Contract Items:
 - A. <u>Mobilization 1</u>: Mobilization 1 (Aberdeen Area) shall include all costs of mobilization within the Aberdeen Area to and from the project and will be paid on a per each basis each time the Contractor is called in by the Area Engineer to perform guardrail accident damage repair. The Aberdeen Area includes the following counties: Brown, Day, Edmunds, Faulk, McPherson, and Marshall Counties.

BEADLE, BROOKINGS, BROWN, BUFFALO, CLARK, CODINGTON, DAY, DEUEL, EDMUNDS, FAULK, GRANT, HAMLIN, HAND, HYDE, KINGSBURY, MCPHERSON, MARSHALL, MOODY, ROBERTS, AND SPINK COUNTIES

- B. <u>Mobilization 2</u>: Mobilization 2 (Huron Area) shall include all costs of mobilization within the Huron Area to and from the project and will be paid on a per each basis each time the Contractor is called in by the Area Engineer to perform guardrail accident damage repair. The Huron Area includes the following counties: Beadle, Buffalo, Clark, Hand, Hyde, Kingsbury, and Spink Counties.
- C. <u>Mobilization 3</u>: Mobilization 3 (Watertown Area) shall include all costs of mobilization within the Watertown Area to and from the project and will be paid on a per each basis each time the Contractor is called in by the Area Engineer to perform guardrail accident damage repair. The Watertown Area includes the following counties: Brookings, Codington, Deuel, Grant, Hamlin, Moody and Roberts Counties.
- D. Retension 3 Cable Guardrail: Retension 3 Cable Guardrail shall include all costs to adjust the tension in a length of 3 Cable Guardrail. The tension shall be as shown on Standard Plate 629.01 (1 of 6). Measurement for payment will be per each run of 3 Cable Guardrail and shall include all 3 cables and both anchor ends that make up a run of 3 Cable Guardrail. Retension 3 Cable Guardrail may include cutting and shortening of cables at the anchors to allow for the proper retensioning.
- E. Repair 3 Cable Guardrail: Repair 3 Cable Guardrail shall include replacement of damaged cable. The Contractor shall furnish any J Hook Bolts needed as shown on Standard Plate 629.01 (5 of 6). Measurement for payment will be per each single cable and for the actual length requiring replacement. Cable Splices required shall be incidental to this contract item. All costs for retensioning of cables shall be incidental to the contract unit price per foot for "Repair 3 Cable Guardrail".
- F. <u>3 Cable Guardrail End Post</u>: 3 Cable Guardrail End Post shall include all costs for removal of damaged end post and installation of 3 cable guardrail end post. 3 Cable Guardrail End Post shall also include a new end post cap. All costs incurred for removal and replacement of the existing cable on the new post shall be incidental to this contract item.
- G. <u>3 Cable Guardrail Intermediate Post</u>: 3 Cable Guardrail Intermediate Post shall include all costs for removal of damaged post and installation of 3 cable guardrail intermediate line post. All costs incurred for removal and replacement of the existing cable on the new post, including J Hook Bolts shall be incidental to this contract item.
- H. 3 Cable Guardrail Slip Base Anchor Post: 3 Cable Guardrail Slip Base Anchor Post shall include all costs for removal of damaged post and installation of 3 cable guardrail slip base anchor post. All costs incurred for removal and replacement of the existing cable on the new post, shall be incidental to this contract item.
- I. <u>3 Cable Guardrail Post, Winter</u>: 3 Cable Guardrail Post, Winter shall include all costs for removal of the damaged post and installation of cable guardrail post when there is in excess of one foot of frozen ground at the work site. When this condition exists, the contract unit price per each for "3 Cable Guardrail Post, Winter" will be the pay unit rather than the contract unit price per each for "3 Cable Guardrail Intermediate Post" and/or "3 Cable Guardrail End Post". The Contractor shall furnish any J Hook Bolts needed as shown on Standard Plate 629.01 (5 of 6).

All costs incurred for removal and replacement of the existing cable on the new post, including J Hook Bolts shall be incidental to this contract item.

- J. <u>Drive Down 3 Cable Guardrail Post</u>: Drive Down 3 Cable Guardrail Post shall include all costs for adjusting the height of a Cable Rail Post. All costs to disassemble the cable rail to do this work shall be incidental to this contract item.
- K. <u>Reset 3 Cable Guardrail Post</u>: Reset 3 Cable Guardrail Post shall include all costs incurred for the realignment and/or removal and resetting of a cable guardrail post to properly align cable guardrail section. The Contractor shall furnish any J Hook Bolts needed as shown on Standard Plate 629.01 (5 of 6).
 - Work under this item may require straightening of in place bent cable guardrail posts to bring them into alignment with cable guardrail section. Payment for "Reset 3 Cable Guardrail Post" will be the same whether in frozen or unfrozen ground. All costs incurred for removal and replacement of the existing cable on the new post shall be incidental to this item.
- L. <u>Cable Anchor Bracket</u>: Cable Anchor Bracket shall include furnishing and installing the Cable Anchor Bracket as shown on Standard Plate 629.01 (3 of 6).
- M. <u>Cable Splice</u>: Cable Splice shall include all costs incurred for cutting existing cable and for furnishing and installing the necessary cable splice.
- N. <u>3 Cable Guardrail J Hook Bolt</u>: 3 Cable Guardrail J Hook Bolt shall include furnishing & installing J hook bolts when no other work is required to the 3 cable guardrail other than missing or broken J hook bolts.
- O. <u>Steel Turnbuckle Cable End Assembly</u>: Steel Turnbuckle Cable End Assembly shall include all costs for furnishing and installing the Steel Turnbuckle Cable End Assembly as shown on Standard Plate 629.01 (4 of 6).
- P. Spring Cable End Assembly with Turn Buckle: Spring Cable End Assembly with Turnbuckle shall include all costs for furnishing and installing the Spring Cable End Assembly with Turnbuckle as shown on Standard Plate 629.01 (4 of 6).
- Q. W Beam to 3 Cable Transition Bracket: W Beam to 3 Cable Transition Bracket shall include all costs incurred for removing the damaged transition bracket and installing a transition bracket in accordance with the details on Standard Plates 629.05 & 629.15.
- R. <u>3 Cable Guardrail End Post Cap</u>: 3 Cable Guardrail End Post Cap shall include all costs for furnishing and installing an end post cap as shown on Standard Plate 629.01 (6 of 6).
- S. <u>Straight Class A Thrie Beam Rail</u>: Straight Class A Thrie Beam Rail shall include all costs for removing damaged Thrie Beam rail and replacing with Class A Thrie Beam rail.
- T. <u>Straight Class A W Beam Rail</u>: Straight Class A W Beam Rail shall include all costs for removing damaged W Beam rail and replacing with Class A W Beam rail.
- U. <u>Straight Class B W Beam Rail</u>: Straight Class B W Beam Rail shall include all costs for removing damaged W Beam rail and replacing with Class B W Beam rail.

BEADLE, BROOKINGS, BROWN, BUFFALO, CLARK, CODINGTON, DAY, DEUEL, EDMUNDS, FAULK, GRANT, HAMLIN, HAND, HYDE, KINGSBURY, MCPHERSON, MARSHALL, MOODY, ROBERTS, AND SPINK COUNTIES

- V. <u>W Beam to Thrie Beam Guardrail Transition</u>: W Beam to Thrie Beam Guardrail Transition shall include all costs for removing damaged rail and replacing with a W Beam to Thrie Beam Guardrail Transition.
- W. W Beam Guardrail Flared End Terminal: W Beam Guardrail Flared End Terminal shall include all costs incurred for furnishing and installing an approved flared end terminal in accordance with details on Standard Plate 630.45. At some locations of W Beam Guardrail Flared End Terminal damage, the Area Engineer may decide to replace the existing W Beam Guardrail Flared End Terminal in lieu of replacing the various components of the W Beam Guardrail Flared End Terminal.

The Flared End Terminal shall be on the approved products list on Sheet 11 of 46.

The contract unit price per each for "W Beam Guardrail Flared End Terminal" shall include all costs incurred for furnishing and installing one (1) end section as shown on Standard Plate 630.45 including removal of the existing end terminal.

X. W Beam Guardrail Tangent End Terminal: W Beam Guardrail Tangent End Terminal shall include all costs incurred for furnishing and installing an approved tangent end terminal in accordance with details on Standard Plate 630.46. At some locations of W Beam Guardrail Tangent End Terminal damage, the Area Engineer may decide to replace the existing W Beam Guardrail Tangent End Terminal in lieu of replacing the various components of the W Beam Guardrail Tangent End Terminal.

The Tangent End Terminal shall be on the approved products list on Sheet 11 of 46.

The contract unit price per each for "W Beam Guardrail Tangent End Terminal" shall include all costs incurred for furnishing and installing one (1) end section as shown on Standard Plate 630.46 including removal of the existing end terminal.

- Y. <u>Beam Guardrail Block</u>: Beam Guardrail Block shall include all costs for removing the broken block and installing a block.
- Z. <u>Beam Guardrail Post & Block</u>: Beam Guardrail Post & Block shall include all costs for removing the broken post and installing a post and block. Any holes required to be drilled in the posts, such as the 3 1/2" diameter holes for the MELT end posts as per Standard Plate SPECIAL A (3 of 3), shall also be included.

- AA. Beam Guardrail Post & Block, Winter: Beam Guardrail Post & Block, Winter shall include all costs incurred for replacement of a steel beam guardrail post when there is in excess of one foot of frozen ground at the work site. When this condition exists, the contract unit price per each for "Beam Guardrail Post & Block, Winter" will be the pay unit rather than the contract unit price per each for "Beam Guardrail Post & Block". The Contractor shall field drill 3 1/2" diameter holes in posts as per Standard Plate SPECIAL A (3 of 3) when placing MELT ends.
- BB. <u>Breakaway Cable Terminal End Post</u>: Breakaway Cable Terminal (B.C.T) End Post shall include all costs incurred for removal of a broken end post and installing an end post. B.C.T. end posts are set in concrete or in steel tube sleeves. The Contractor shall field drill holes in the installed post as required to accommodate the B.C.T.
- CC. <u>Breakaway Cable Terminal End Rail</u>: Breakaway Cable Terminal (B.C.T) End Rail shall include all costs incurred for removing the 12.5 ft. or 25 ft section of damaged B.C.T. W beam adjacent to the Radius Terminal Element and replacing with new guardrail. The Contractor shall field drill holes in the guardrail for installation.
- DD. <u>W-Beam Guardrail End Section Buffer</u>: W-Beam Guardrail End Section Buffer shall include all costs incurred for installing a buffer assembly. Removal of the existing end section buffer shall be incidental to this contract item.
- EE. <u>Tangent End Terminal Extruder Head</u>: Tangent End Terminal Extruder Head shall include all costs incurred for removing the damaged extruder head and installing a new extruder head on the Tangent End Terminal.
- FF. <u>Tangent End Terminal Wood Post</u>: Tangent End Terminal Wood Post shall include all costs incurred for removing the broken wood post and installing a new wood post within the steel tube footing on the Tangent End Terminal.
- GG. <u>Tangent End Terminal Wood Post & Block</u>: Tangent End Terminal Wood Post & Block shall include all costs incurred for removing the broken 6 ft. wood post and installing a new wood post and block on the Tangent End Terminal.
- HH. <u>Tangent End Terminal Rail</u>: Tangent End Terminal Rail shall include all costs incurred for removing 12.5 ft. or 25 ft. section(s) of damaged beam guardrail and replacing new beam guardrail on the Tangent End Terminal.
- II. <u>Rubrail</u>: Rubrail shall include all costs to install rubrail. The Contractor shall provide the necessary wood blocks and bolts to attach the rubrail to the wood posts.
- JJ. <u>Drive Down Beam Guardrail Post</u>: Drive Down Beam Guardrail Post shall include all costs for adjusting the height of a steel beam guardrail post. All costs to disassemble the steel beam guardrail shall be incidental to this bid item.
- KK. Reset Beam Guardrail Post & Block: Reset Beam Guardrail Post & Block shall include all costs for removing and resetting post to properly align the steel beam section. Payment for "Reset Beam Guardrail Post & Block" shall be the same in frozen or unfrozen ground.

BEADLE, BROOKINGS, BROWN, BUFFALO, CLARK, CODINGTON, DAY, DEUEL, EDMUNDS, FAULK, GRANT, HAMLIN, HAND, HYDE, KINGSBURY, MCPHERSON, MARSHALL, MOODY, ROBERTS, AND SPINK COUNTIES

- LL. 2.0 LB/FT Flanged Channel Post: 2.0 LB/FT Flanged Channel Post shall be used to replace damaged delineator posts in a guardrail installation area. 2.0 LB/FT Flanged Channel Post will also be the pay item for the 3.5 ft long base post if it is required. The retainer-spacer strap and other miscellaneous hardware required shall be incidental to the contract unit price per foot for 2.0 LB/FT Flanged Channel Post. Delineators themselves will be paid for separately as 4" x 4" White Delineator Reflector.
- MM. <u>4" x 4" White Delineator Reflector</u>: 4" x 4" White Delineator Reflector shall be used to replace damaged and/or missing delineator heads on existing delineator posts in a guardrail installation area. Any post straightening or realignment of posts shall be incidental to the contract unit price per each for 4" x 4" White Delineator Reflector. 4" x 4" White Delineator Reflector will also be the pay item for delineator heads when installing a new 2.0 LB/FT Flanged Channel Post. A typical installation will require 2 delineator heads. Delineator heads shall be fastened to the post with pop rivets.
- 9. Traffic Control shall be installed by the Contractor in accordance with the details on Sheets 12 thru 14 of the Contract. All signs, channelizing devices, and arrow boards shall conform to the requirements of the Manual of Uniform Traffic Control Devices. All costs for furnishing, installing, and maintaining the traffic control shall be incidental to the contract unit prices bid for the various contract items. Separate measurement and payment will not be made.

When work is being performed on two way traffic roadways, flagging shall be furnished by the Contractor in accordance with the standard plate included in this contract. All costs associated with furnishing flagging shall be incidental to the contract unit prices bid for the various contract items. Separate measurement and payment will not be made.

Portable sign supports shall be constructed to yield upon impact to minimize hazards to motorists. The bottom of signs on portable or temporary supports shall not be less than seven feet above the pavement in urban areas and one foot above the pavement in rural areas.

It shall be the responsibility of the Contractor to ensure that all devices meet the applicable NCHRP 350 requirements.

Equipment and vehicles entering or exiting the roadway, traveling on the shoulders or driving lanes at low speeds or working within the right-of-way shall display a flashing amber light visible for a minimum distance of 1/4 mile in all directions.

10. When the Contractor is called in to work at more than one site within an Area, Mobilization will only be paid once. In the event that Mobilization is required in two or more Areas at one time, the Contractor will be paid Mobilization into each one of the specific Areas. The cover sheets show where bridges are located within the Areas. There may be additional locations that have guardrail such as box culverts, large pipe, and steep inslopes which are not indicated on the cover sheets. Long runs of 3 Cable Guardrail exist on several water hazard sites. These include:

SD 25 from MRM 175.5 to MRM 177.8 in Day County US 212 from MRM 350.6 to MRM 351.7 in Clark County

BEADLE, BROOKINGS, BROWN, BUFFALO, CLARK, CODINGTON, DAY, DEUEL, EDMUNDS, FAULK, GRANT, HAMLIN, HAND, HYDE, KINGSBURY, MCPHERSON, MARSHALL, MOODY, ROBERTS, AND SPINK COUNTIES

11. The Standard Plates included in this contract are provided for information purposes on how the various guardrail items are to be constructed and the materials required to do the work. Plan notes contained on Sheets 4 thru 10 of this contract shall take precedence over notes contained on the Standard Plates.

BEADLE, BROOKINGS, BROWN, BUFFALO, CLARK, CODINGTON, DAY, DEUEL, EDMUNDS, FAULK, GRANT, HAMLIN, HAND, HYDE, KINGSBURY, MCPHERSON, MARSHALL, MOODY, ROBERTS, AND SPINK COUNTIES

Approved W Beam Guardrail End Terminals Product Sub-Type: | **Product Name:** Manufacturer: Road System, Inc. Big Spring TX **Tangent Terminal SKT 350** (432) 263-2435 http://www.roadsystems.com SYRO, Inc. a Trinity Industries Co. Dallas TX **Tangent Terminal** ET-2000 Plus (800) 644-7976 http://www.trinitycpg.com Road System, Inc. Big Spring TX Flared Terminal Fleat 350 (432) 263-2435 http://www.roadsystems.com SYRO, Inc. a Trinity Industries Co. SRT-350 Dallas TX Flared Terminal (800) 644-7976 (6-Post System) http://www.trinitycpg.com

BEADLE, BROOKINGS, BROWN, BUFFALO, CLARK, CODINGTON, DAY, DEUEL, EDMUNDS, FAULK, GRANT, HAMLIN, HAND, HYDE, KINGSBURY, MCPHERSON, MARSHALL, MOODY, ROBERTS, AND SPINK COUNTIES

Posted		Spacing of	
Speed	Advance Warning	Channelizing	
Prior to	Signs	Devices	
Work	(Feet)	(Feet)	
(M.P.H.)	(A)	(G)	
0 - 30	200	25	
35 - 40	350	25	
45 - 50	500	50	
55	750	50	
60 - 65	1000	50	

■ Flagger

■ Channelizing Device

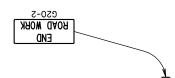
For low-volume traffic situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger may be used.

The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short duration operations (I hour or less).

For tack and/or flush seal operations, when flaggers are not being used, the FRESH OIL sign (W2I-2) shall be displayed in advance of the liquid asphalt areas.

Flashing warning lights and/or flags may be used to call attention to the advance warning signs.

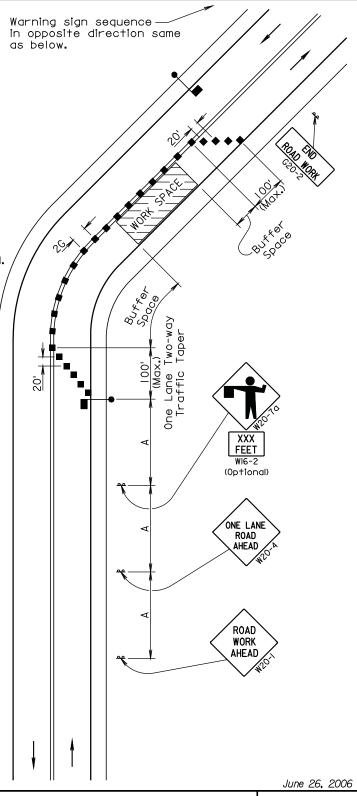
The channelizing devices shall be drums or type II barricades if traffic control must remain overnight or longer. During daylight hours, 42" cones may be used in lieu of drums or type II barricades along the centerline.



Channelizing devices are not required along the centerline adjacent to work area when pilot cars are utilized for escorting traffic through the work area.

Channelizing devices and flaggers shall be used at intersecting roads to control intersecting road traffic as required.

The buffer space shall be a sufficient length so that the channelizing devices are visible to approaching traffic.



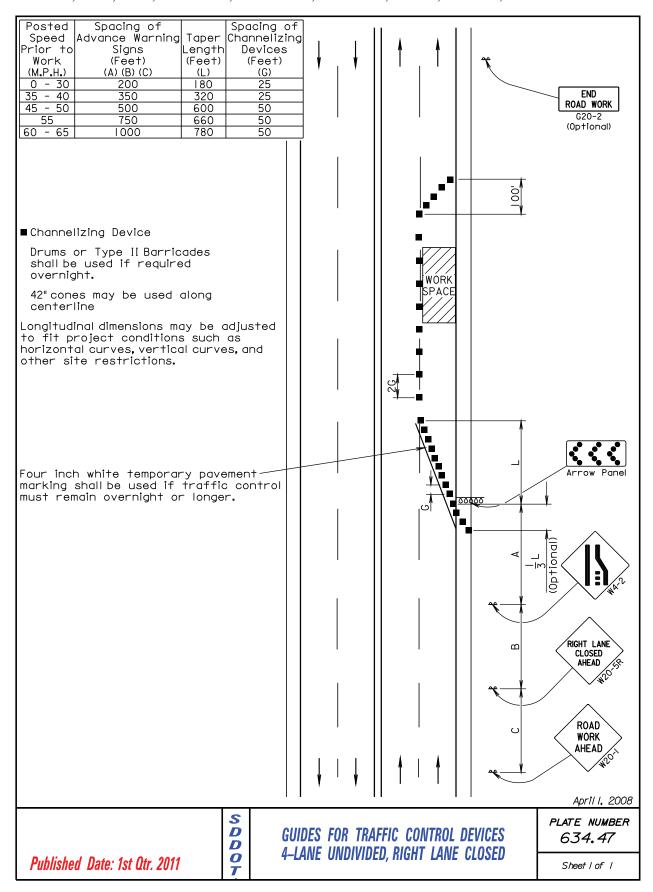
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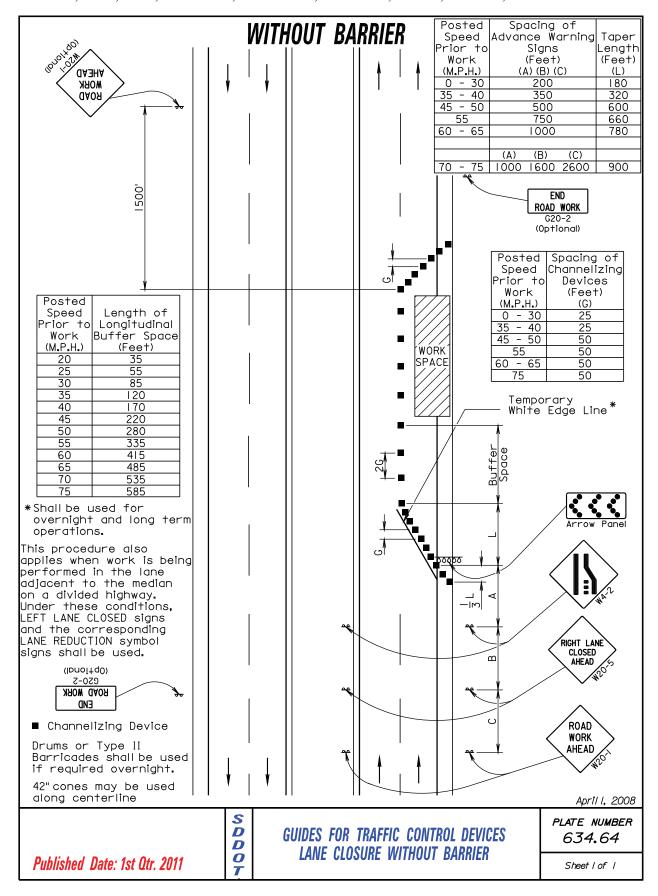
GUIDES FOR TRAFFIC CONTROL DEVICES LANE CLOSURE WITH FLAGGER PROVIDED

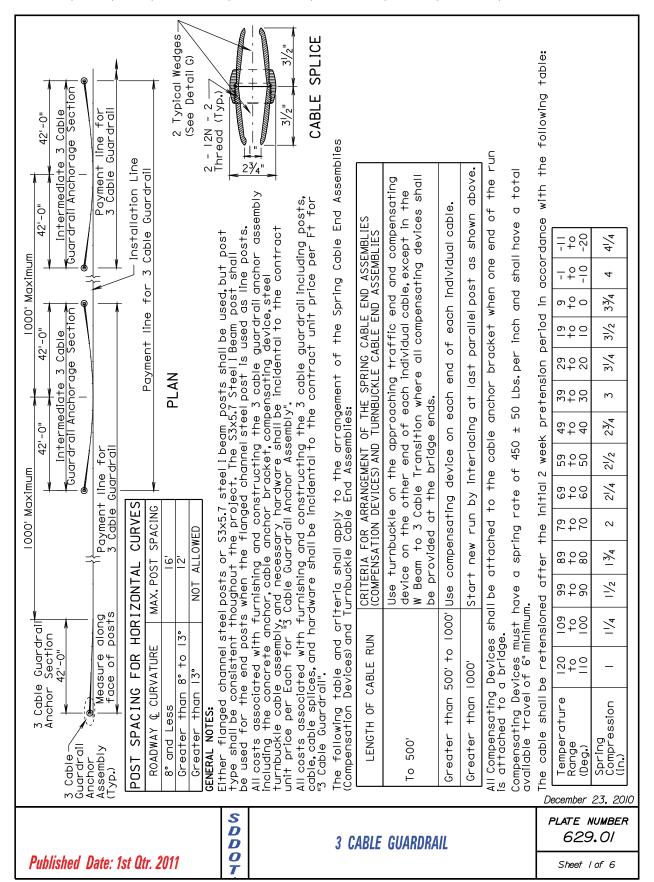
PLATE NUMBER 634.23

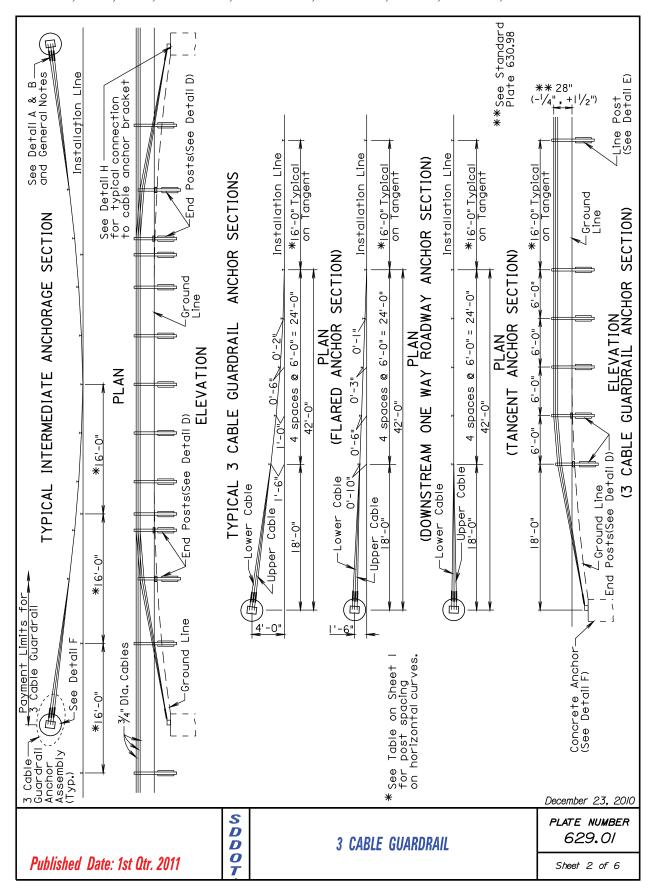
Sheet I of I

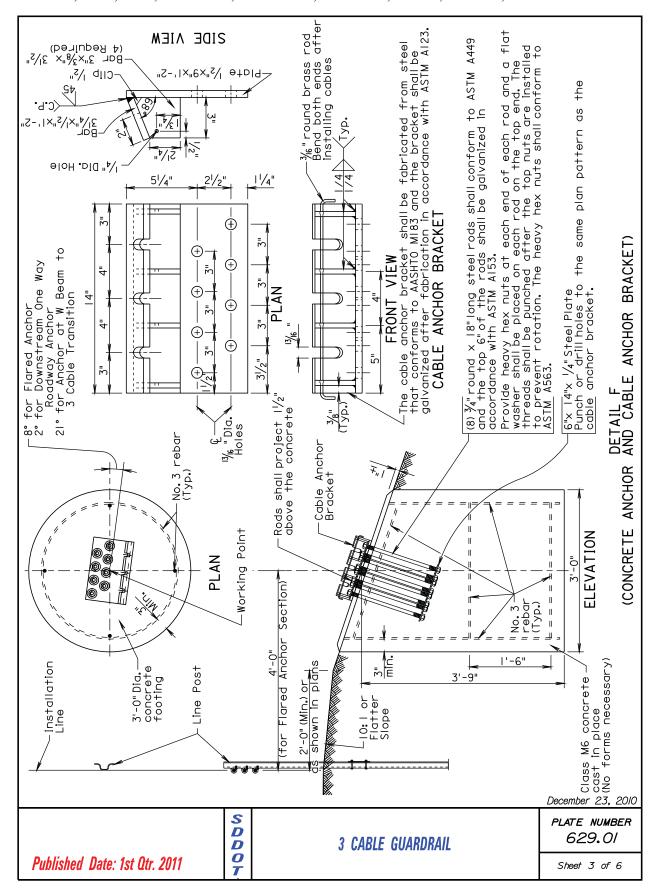
Published Date: 1st Qtr. 2011

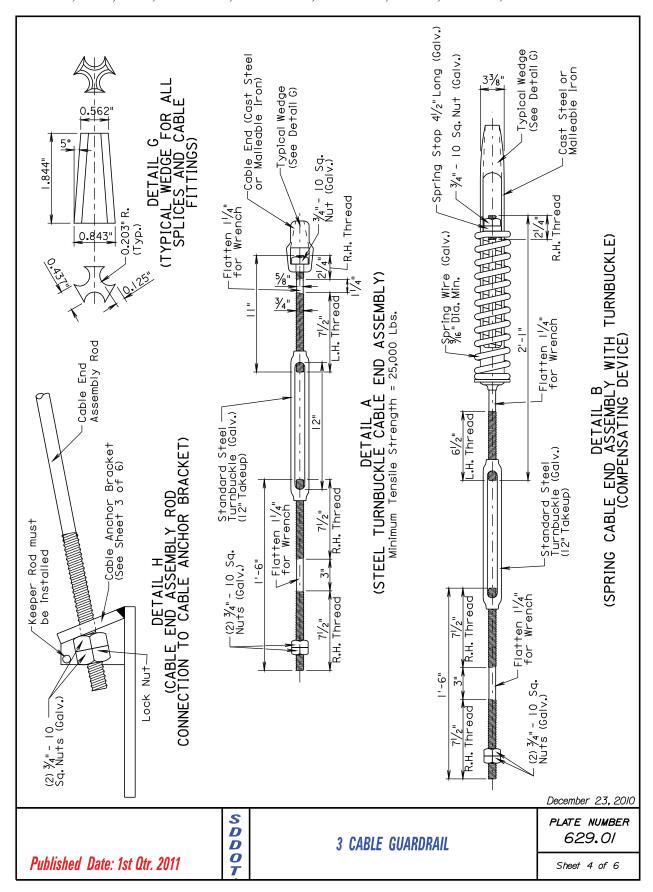


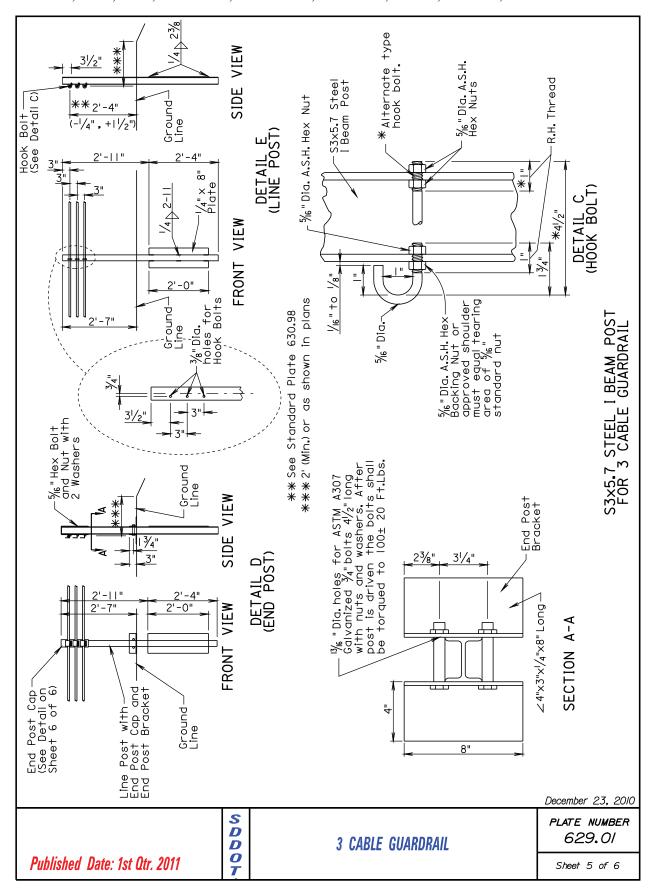


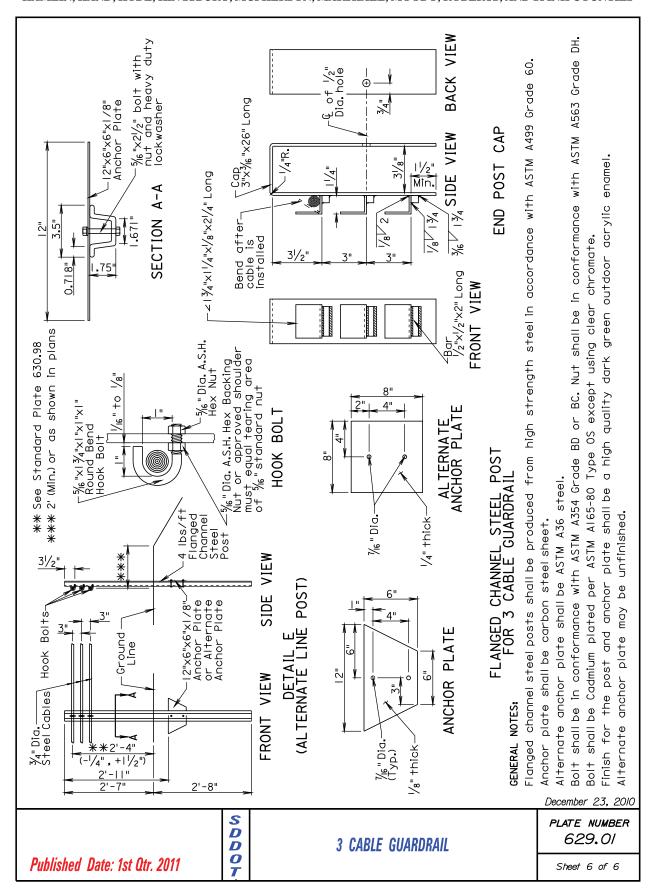


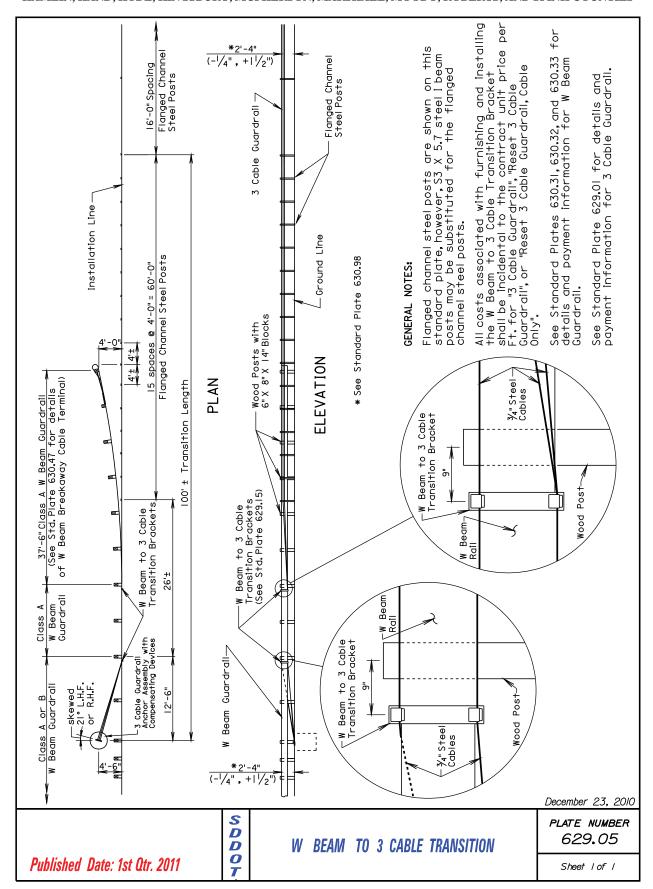


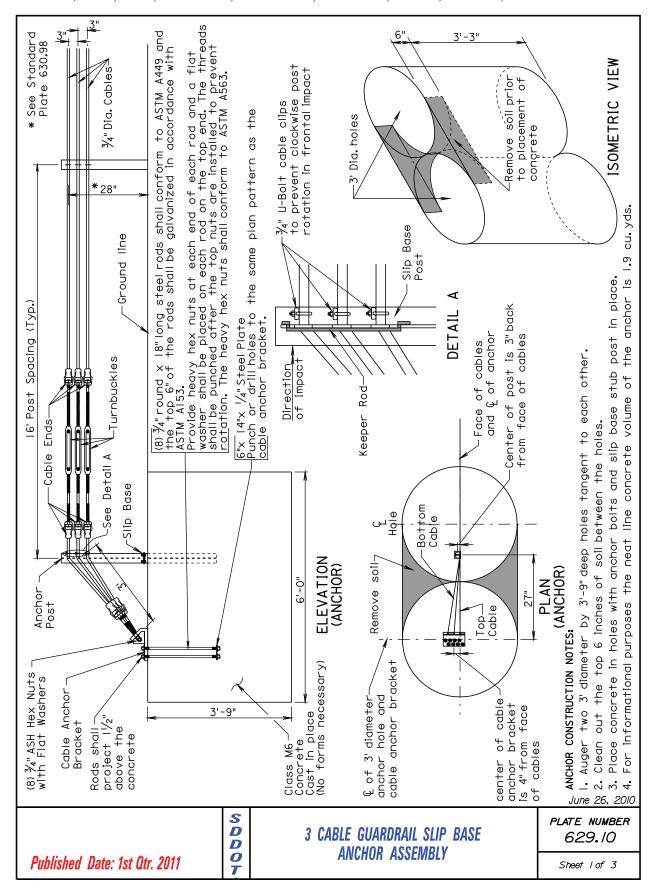


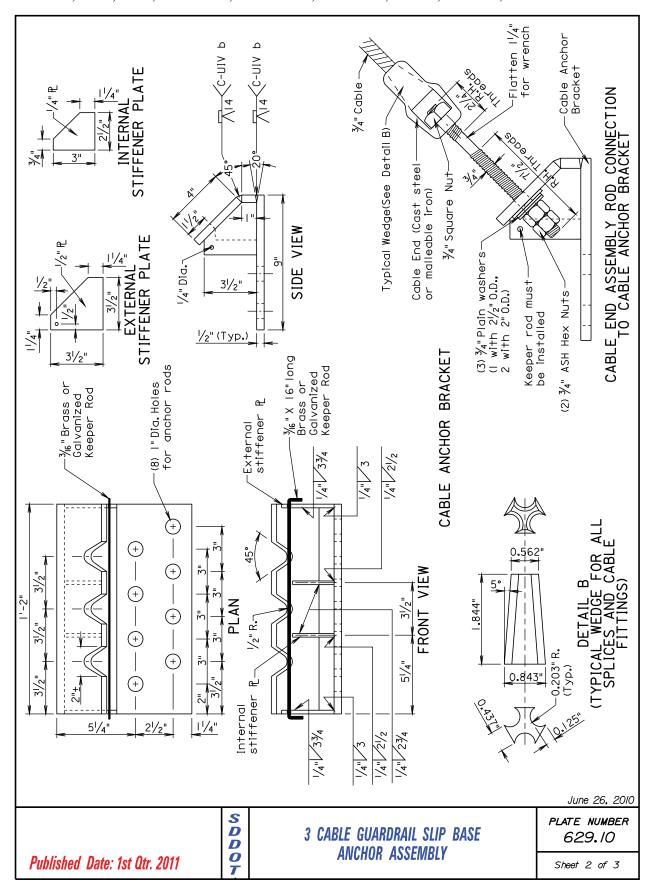


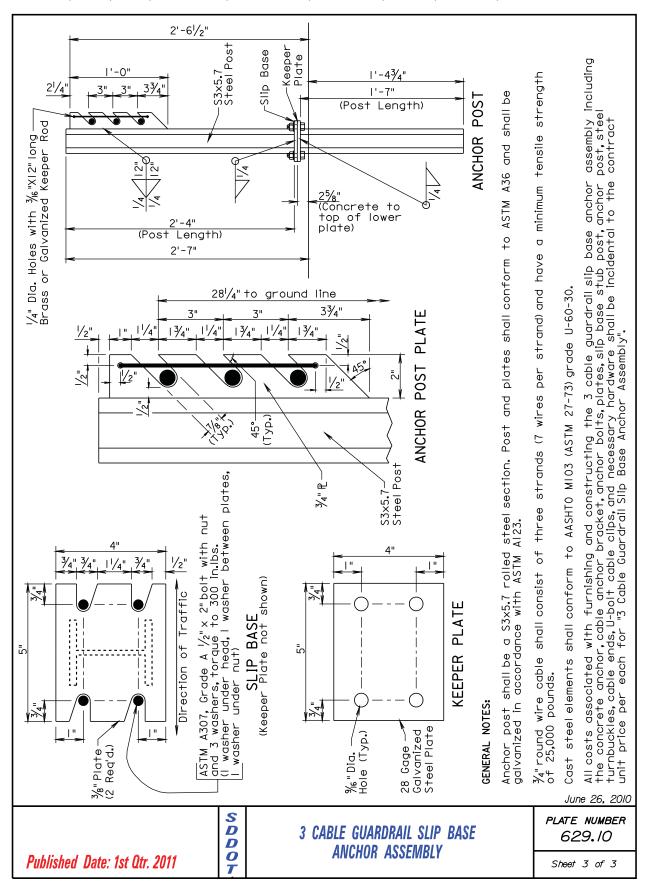


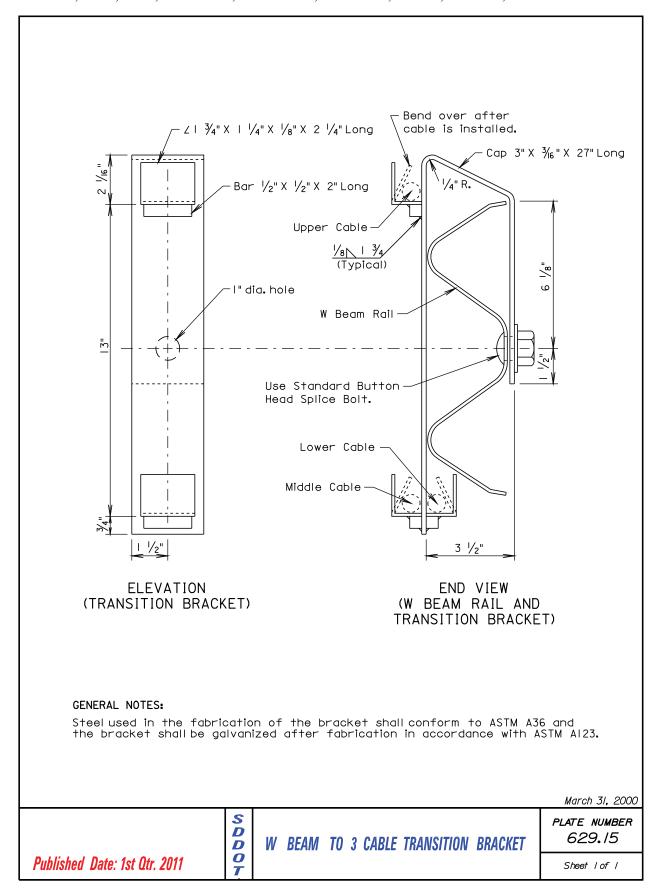




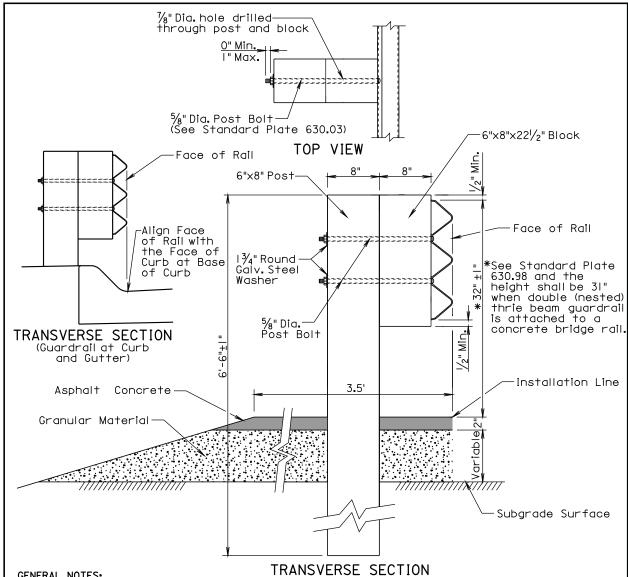








BEADLE, BROOKINGS, BROWN, BUFFALO, CLARK, CODINGTON, DAY, DEUEL, EDMUNDS, FAULK, GRANT, HAMLIN, HAND, HYDE, KINGSBURY, MCPHERSON, MARSHALL, MOODY, ROBERTS, AND SPINK COUNTIES



GENERAL NOTES:

Asphalt concrete shall be the same type used elsewhere on the project or shall be as specified in the plans. If asphalt concrete is not specified in the plans, the asphalt concrete shall conform to the SD Standard Specifications for "Asphalt Concrete Composite." For informational purposes, the Rate of Materials for the 3.5' wide section of asphalt concrete as shown above shall be 4.80 Tons per Station.

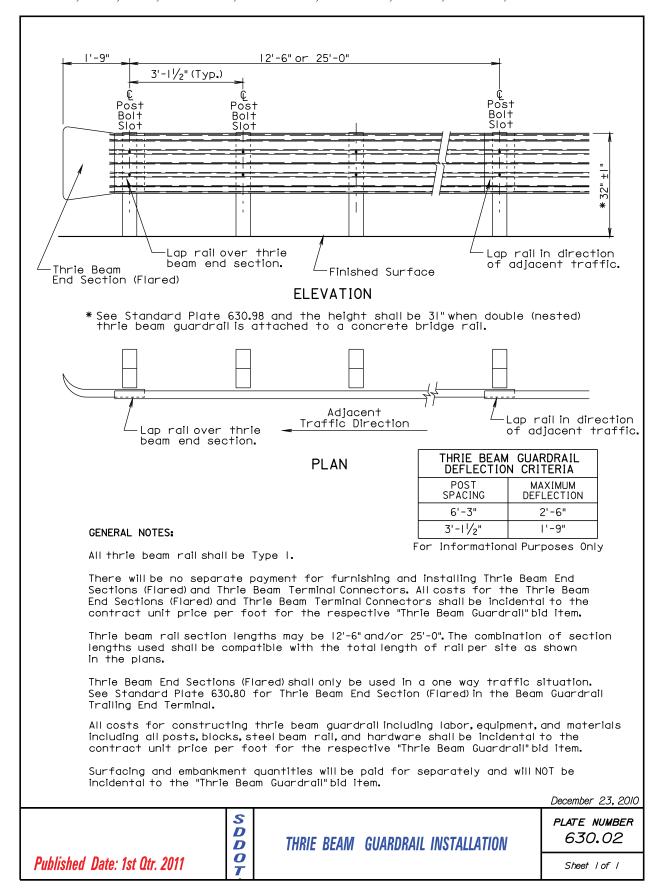
Granular material shall be the same type used elsewhere on the project or shall be as specified in the plans. If granular material type is not specified in the plans, the material shall conform to the SD Standard Specifications for "Base Course". The granular material shall be placed the same thickness as the mainline surfacing or as specified in the plans.

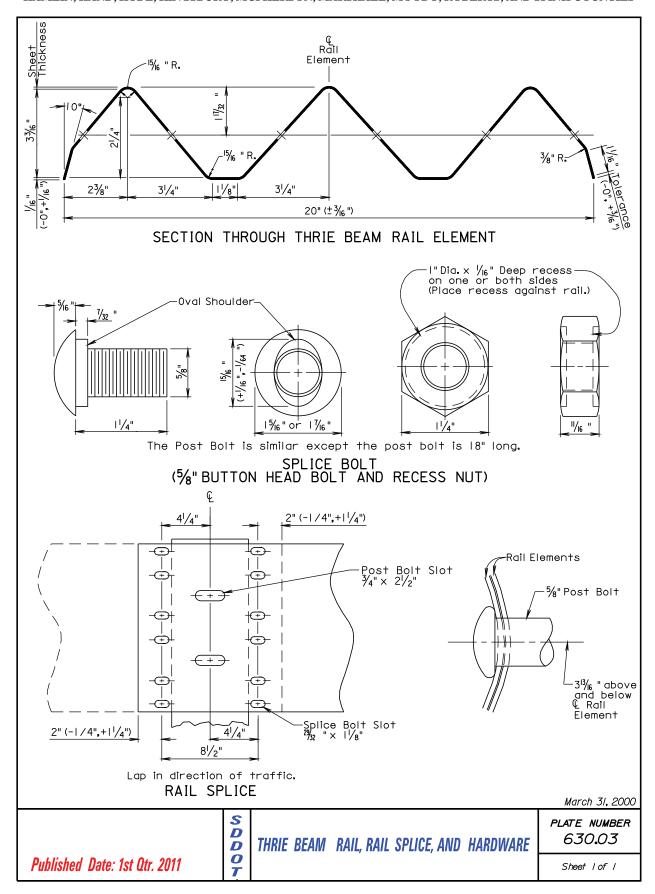
Surfacing and embankment quantities will be paid for separately and will NOT be incidental to the "Thrie Beam Guardrail" bid item.

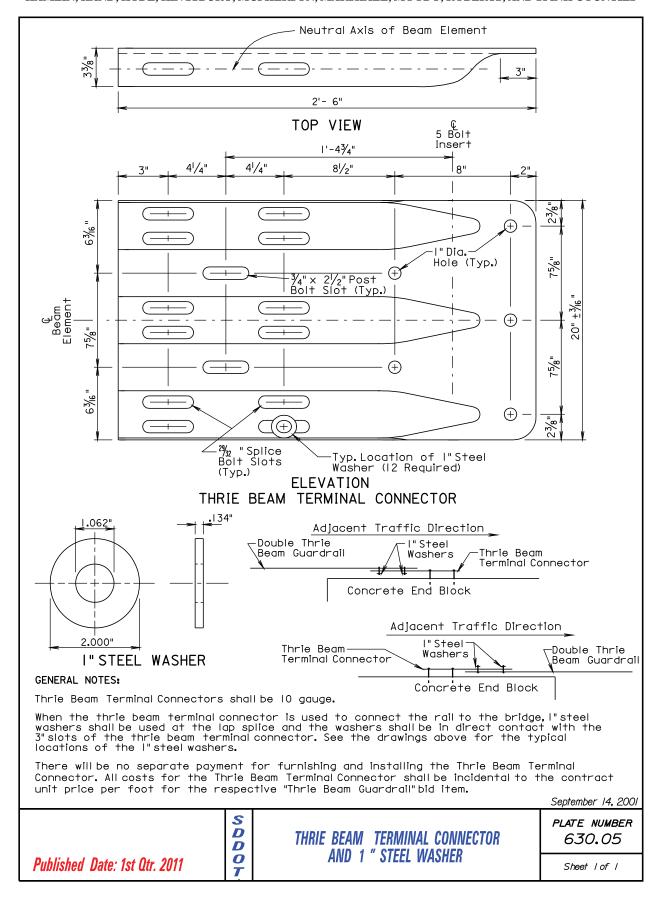
The cross slope for the surfacing and subgrade surface shall be as specified in the plans (See Typical Sections and/or Cross Sections).

The top of posts and top of block shall have a true square cut. The top of post and top of block shall be flush.

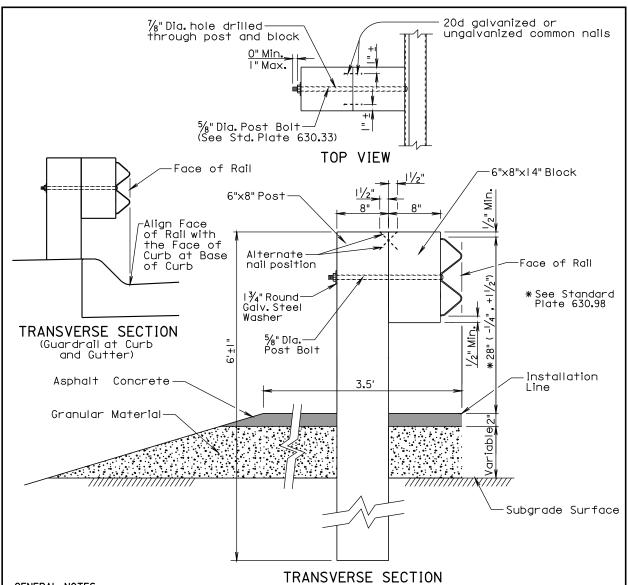
December 23, 2010 5 PLATE NUMBER D 630.01 THRIE BEAM GUARDRAIL POST INSTALLATION D 0 Published Date: 1st Qtr. 2011 Sheet Lof L







BEADLE, BROOKINGS, BROWN, BUFFALO, CLARK, CODINGTON, DAY, DEUEL, EDMUNDS, FAULK, GRANT, HAMLIN, HAND, HYDE, KINGSBURY, MCPHERSON, MARSHALL, MOODY, ROBERTS, AND SPINK COUNTIES



GENERAL NOTES:

Asphalt concrete shall be the same type used elsewhere on the project or shall be as specified in the plans. If asphalt concrete is not specified in the plans, the asphalt concrete shall conform to the SD Standard Specifications for "Asphalt Concrete Composite." For informational purposes, the Rate of Materials for the 3.5' wide section of asphalt concrete as shown above shall be 4.80 Tons per Station.

Granular material shall be the same type used elsewhere on the project or shall be as specified in the plans. If granular material type is not specified in the plans, the material shall conform to the SD Standard Specifications for "Base Course". The granular material shall be placed the same thickness as the mainline surfacing or as specified in the plans.

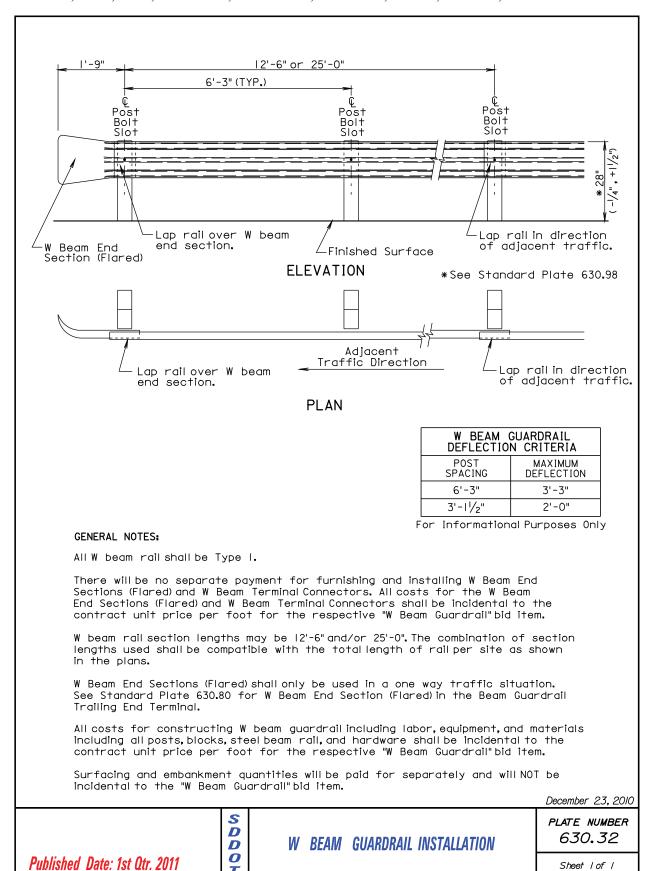
Surfacing and embankment quantities will be paid for separately and will NOT be incidental to the "W Beam Guardrail" bid item.

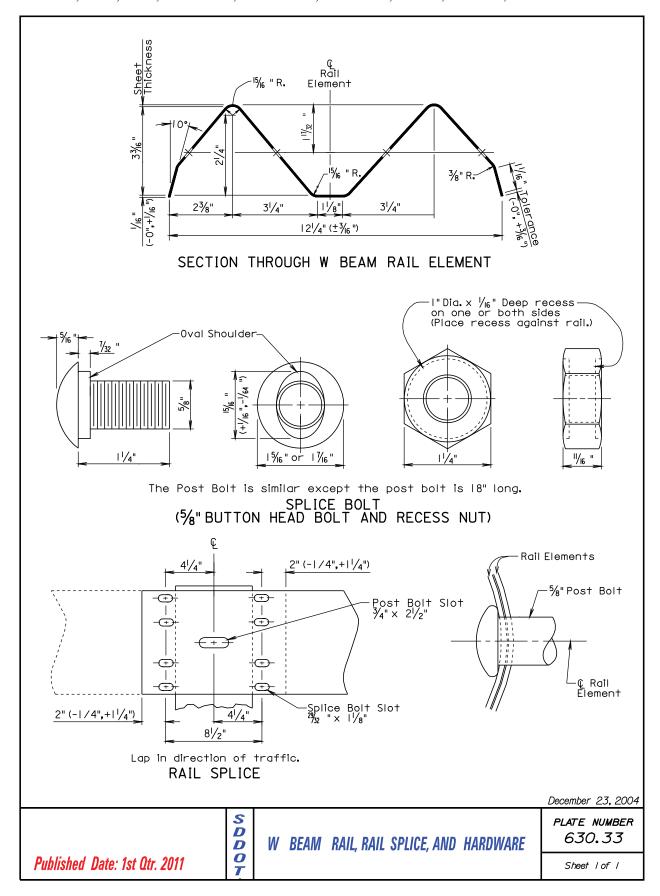
The cross slope for the surfacing and subgrade surface shall be as specified in the plans (See Typical Sections and/or Cross Sections).

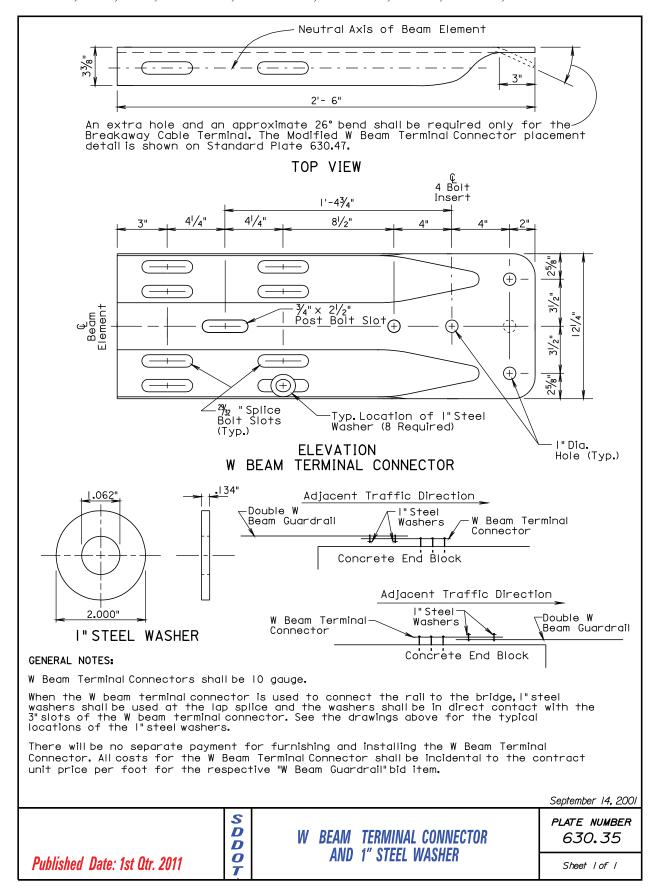
The top of posts and top of block shall have a true square cut. The top of post and top of block shall be flush.

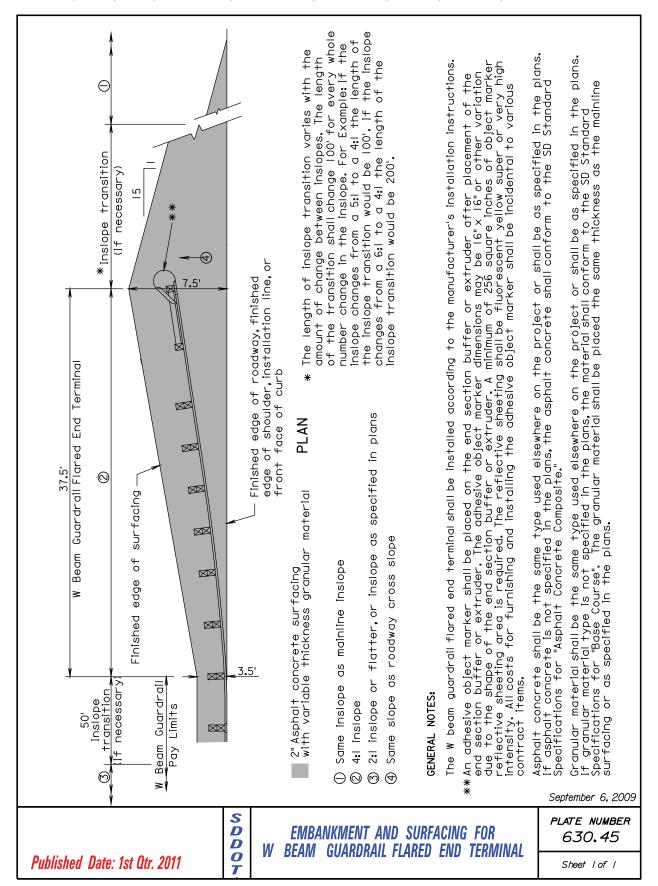
December 23, 2010

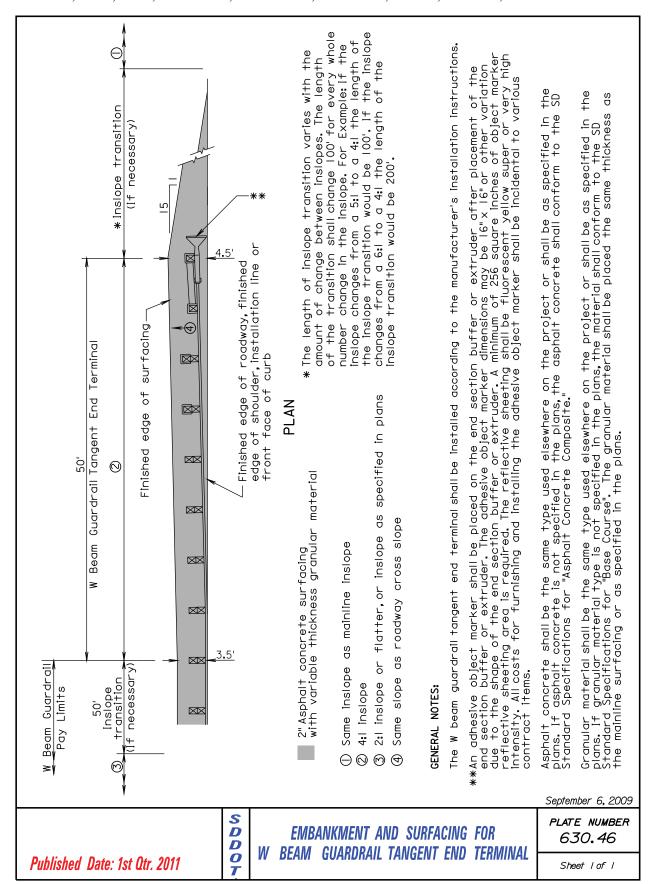
	S D D O T	W BEAM GUARDRAIL POST INSTALLATION	PLATE NUMBER 630.3/
Published Date: 1st Qtr. 2011			Sheet Lof L

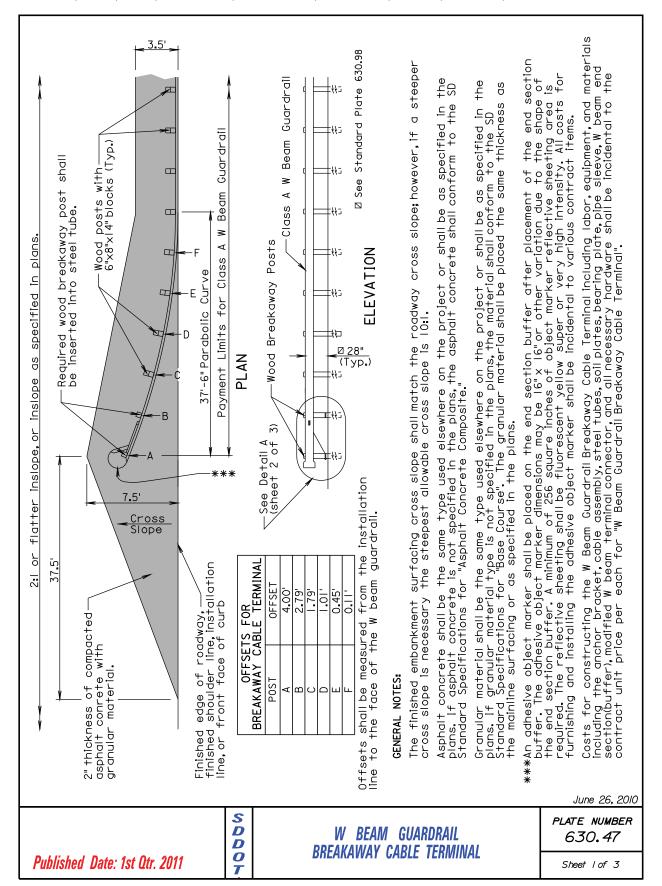


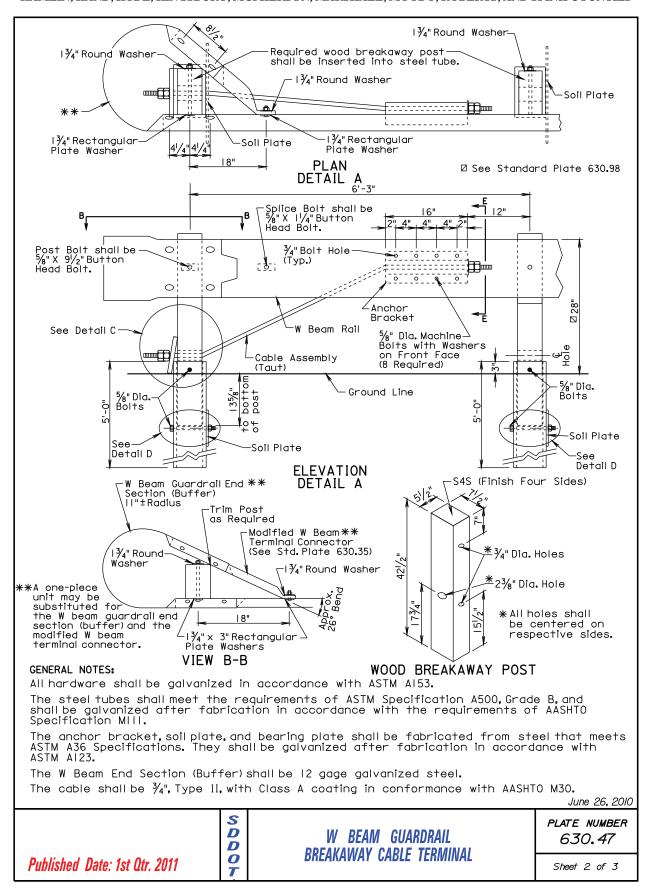


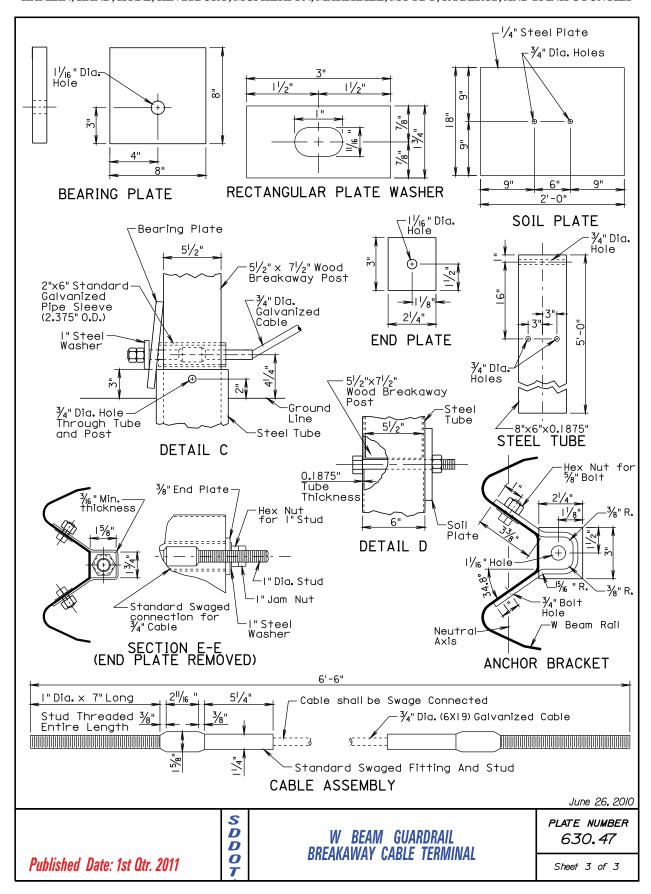




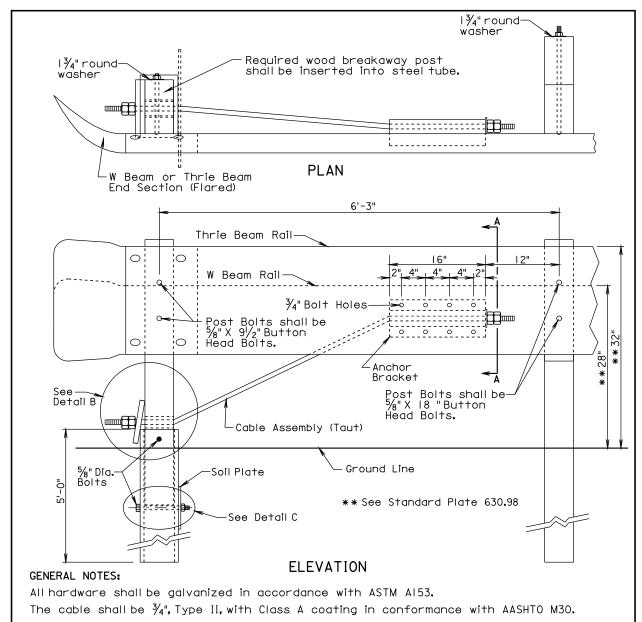








BEADLE, BROOKINGS, BROWN, BUFFALO, CLARK, CODINGTON, DAY, DEUEL, EDMUNDS, FAULK, GRANT, HAMLIN, HAND, HYDE, KINGSBURY, MCPHERSON, MARSHALL, MOODY, ROBERTS, AND SPINK COUNTIES



The steel tube shall meet the requirements of ASTM Specification A500, Grade B, and shall be galvanized after fabrication in accordance with the requirements of AASHTO Specification MIII.

The anchor bracket, soil plate, and bearing plate shall be fabricated from steel that meets ASTM A36 Specifications. They shall be galvanized after fabrication in accordance with ASTM A123.

Costs for constructing the beam guardrail trailing end terminal and furnishing the anchor bracket, cable assembly, steel tube, soil plate, bearing plate, pipe sleeve, wood breakaway post, and all hardware necessary to attach anchor bracket, cable assembly, steel tube, soil plate, bearing plate, pipe sleeve, and wood breakaway post shall be incidental to the contract unit price per each for "Beam Guardrail Trailing End Terminal".

Costs for the thrie beam or W beam guardrail and the thrie beam or W beam end sections (Flared) shall be incidental to the contract unit price per foot for the respective "Thrie Beam Guardrail" or "W Beam Guardrail" bid items.

June 26, 2010

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BEAM GUARDRAIL TRAILING END TERMINAL

PLATE NUMBER 630.80

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