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GENERAL NOTES:

1. INSTALLATION: Construct guardrail in accordance with Specification 536.

This Index, along with the Plans and the manufacturers' drawings on the Approved Products List (APL), is sufficiently detailed for installation of General Guardrail, Low-Speed Guardrail, End Treatment assemblies, and their connecting options shown herein. This precludes requirements for shop drawing submittals unless otherwise specified in the Plans.

2. COMPATIBILITY: The General Guardrail in this Index is based on the Midwest Guardrail System (MGS) design, with an approximate height of 31" at the top of the Panel (2'-1" mounting height at vertical C of Panel) and a midspan panel splice as shown on Sheet 2. Guardrail components included on the APL, which are compatible with this Index, may also be identified as 31" or MGS Guardrail.

3. STANDARD COMPONENTS: Standard guardrail components, including posts, panels, and bolt systems, are based on the Task Force 13 Publication: Guide to Standardized Roadside Hardware.

4. BUTTON-HEAD BOLTS: Install Button-Head Bolts where indicated using bolts, nuts, and washers as defined on Sheet 25. Place washers under nuts against timber posts. Washers are not required at steel post flanges and panel lap splices. Do not place washers between bolt heads and panels, except where otherwise shown in this Index.

5. HEX-HEAD BOLTS: Install Hex-Head Bolts where indicated using bolts, nuts, and washers in accordance with material properties of Specification 967. Place washers under nuts.

6. MISCELLANEOUS ASPHALT PAVEMENT: Install Miscellaneous Asphalt Pavement where indicated with a tolerance of ± 1/2" depth and in accordance with Specification 339.

7. SIDEWALKS & SHARED USE PATHS BEHIND GUARDRAIL: When guardrail posts are placed within 4'-0" of a sidewalk or shared use path, use timber posts. Alternatively, steel posts may be used if treated with Pipe Rail per Sheet 23 or Post Caps per the APL drawings.

When timber posts are used, one of the following safety treatments is required for the bolt(s) protruding from the back face of the posts:

- a. After tightening the nut, trim the protruding post bolt flush with the nut and galvanize per Specification 562.
- b. Use post bolts 15" in length and countersink the washer and nut between 1" and 1½" deep into the back face of the post.
- c. Use 15" post bolts with sleeve nuts and washers.

When End Treatment posts are within 4'-0" of a sidewalk or shared use path, steel posts are not permitted within the End Treatment segment. Terminate Pipe Rail outside of End Treatment segments, as noted per Sheet 23.

Where Pipe Rail is shown or quantified in the Plans, Post Caps or Timber Posts may be substituted unless directly prohibited by the plans.

8. NESTED W-BEAM: Where called for in the Plans, install two W-Beam Panels mounted flush per location, securing all panels with Button-Head Bolts threaded through aligned slots and holes. 2" Button-Head Bolts are permitted for panel splice locations.

9. CONNECTION TO RIGID BARRIER: The connections to Rigid Barrier in this Index only apply to newly constructed bridge Traffic Railing and Concrete Barrier or where the complete Approach Transition Connection to Rigid Barrier shown herein can be installed without conflicting with existing Traffic Railings, structures, or approach slabs. See Sheets 13 thru 21.

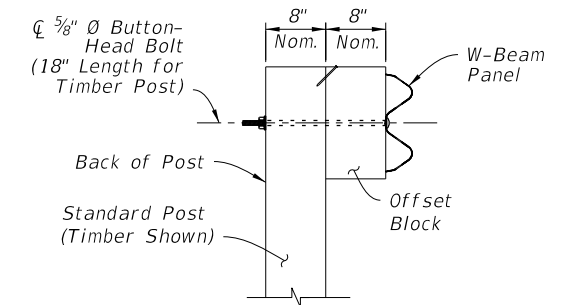
For connecting guardrail to existing bridge Traffic Railings, see Indexes 536-002, 521-404, and 521-405.

10. CONNECTION TO EXISTING 27" HEIGHT GUARDRAIL: See the connection options on Sheet 3.

11. PLANS CALLOUTS: Begin/End Station labels are shown throughout this Index as they correspond to the station and offset callouts specified in the Plans.

In the Plans, Begin/End Guardrail Station refers to the General TL-3 Guardrail Pay Item, and it may be abbreviated as Begin/End GR. Station. Where the Low-Speed TL-2 Guardrail Pay Item is specifically required, the callout in the Plans will then specify Begin/End TL-2 GR. Station.

12. QUANTITY MEASUREMENT: Measure guardrail and corresponding components as defined in Specification 536. The Guardrail length is measured along the centerline of installed Panels, between the points labeled Begin/End Guardrail Station shown on the following Index Sheets and defined in the Plans (typically measured from the C of the panel's post bolt slots at the approach/trailing ends).



INSTALLED SECTION

1. *GENERAL: Install the General Guardrail configuration where indicated in the Plans. This may include tapered segments if called for in the Plans.*

Where a differing guardrail configuration is required for constructability beyond the options shown in this Index or the Plans, obtain approval from the Engineer prior to installation.

- Lap the Panels with the Splice Ridge oriented downstream of the final Direction of Traffic in the nearest traffic lane. For reverse lane conditions, orient the Splice Ridge downstream of the lane direction with the highest traffic volume. Orienting Lap Splices for Temporary Traffic Control phasing is not required.*

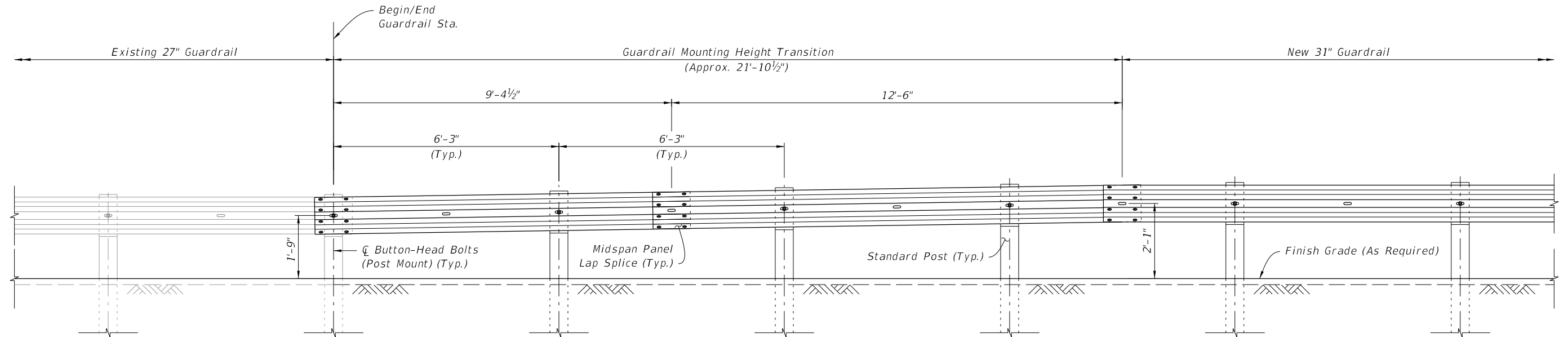
6. **GUARDRAIL SECTIONS:** For Sections showing typical mounting heights, grading, and lateral offsets in relation to adjacent roadway features, see Sheet 6.

8. **DEFINED SEGMENTS:** The General Guardrail shown provides the base configuration, including Post Spacing and splice locations, for Defined Segment modifications where indicated in the Plans and using the Guardrail Types, Sections, and/or hardware as shown in this Index (e.g. Double Faced W-Beam, Deep Posts at Slope Breaks, Pipe Rail, Rub Rail, or Reduced Post Spacing for Hazards).

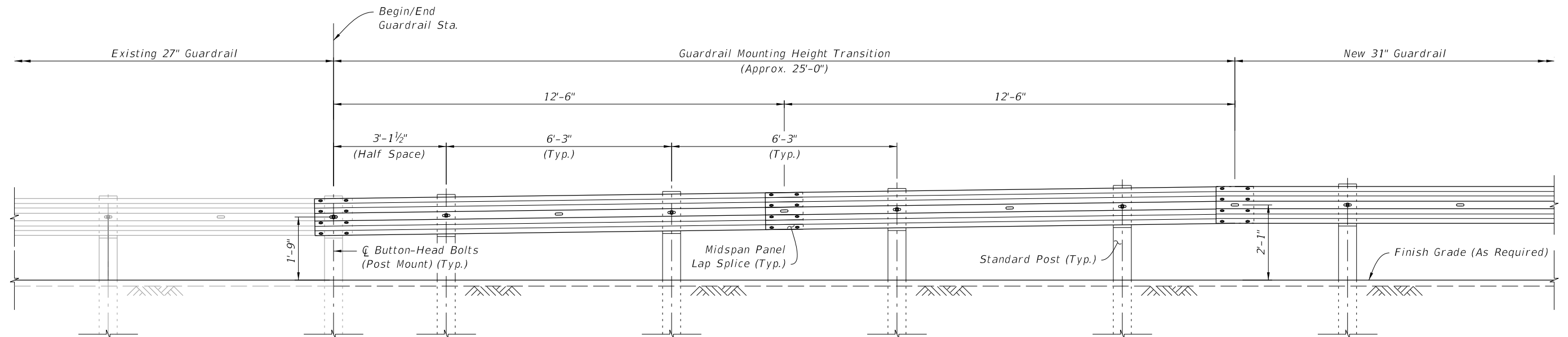


INSTALLED PLAN

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OPTION 1: 9'-4½" PANEL CONNECTION



OPTION 2: HALF POST SPACE PANEL CONNECTION

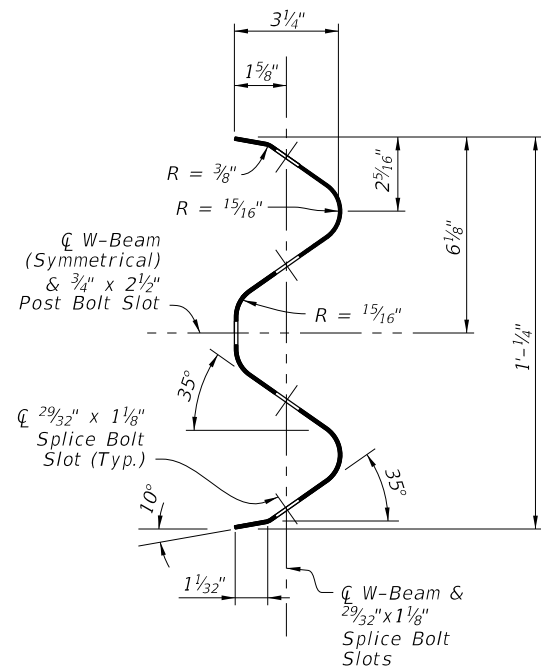
NOTES:

1. Height transitions must occur outside of End Treatment and Approach Transition segments.
2. Consider post location alignment needs when selecting option. Either option may be used unless a specific option number is called for in the Plans.

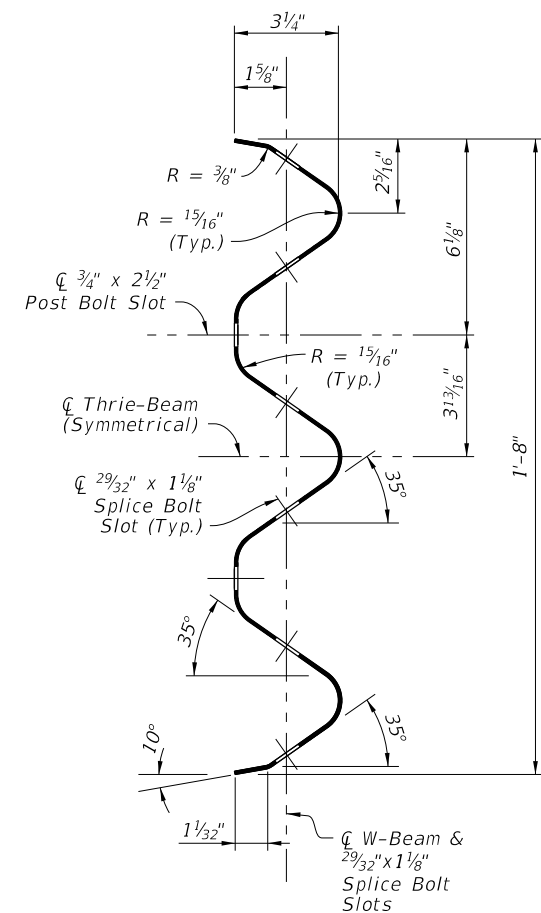
CONNECTION TO EXISTING 27" HEIGHT GUARDRAIL

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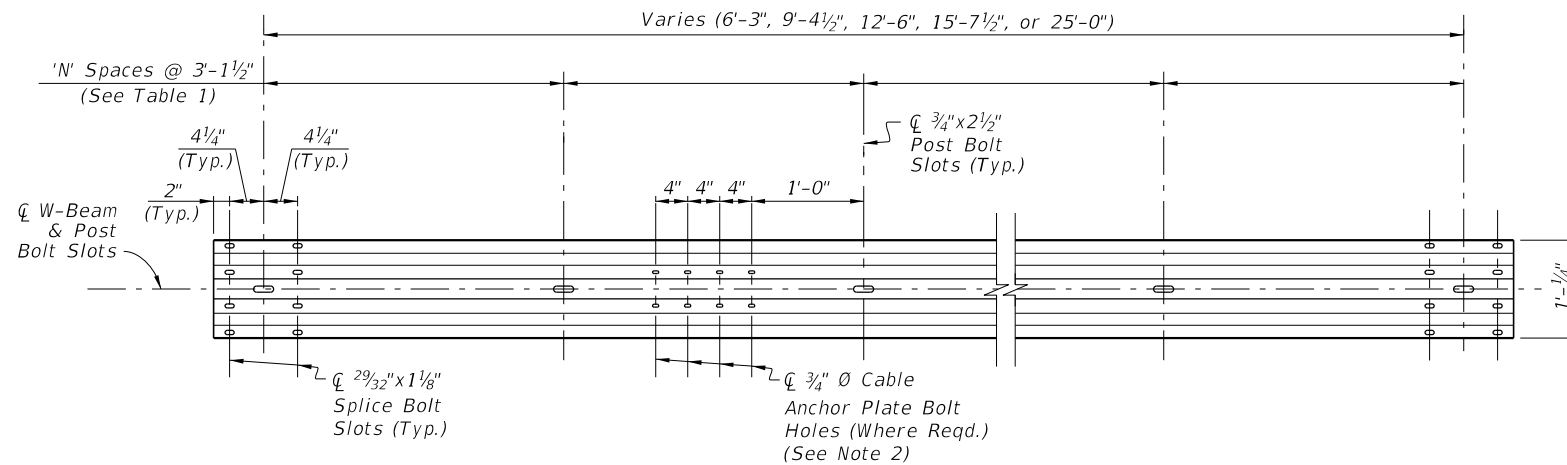
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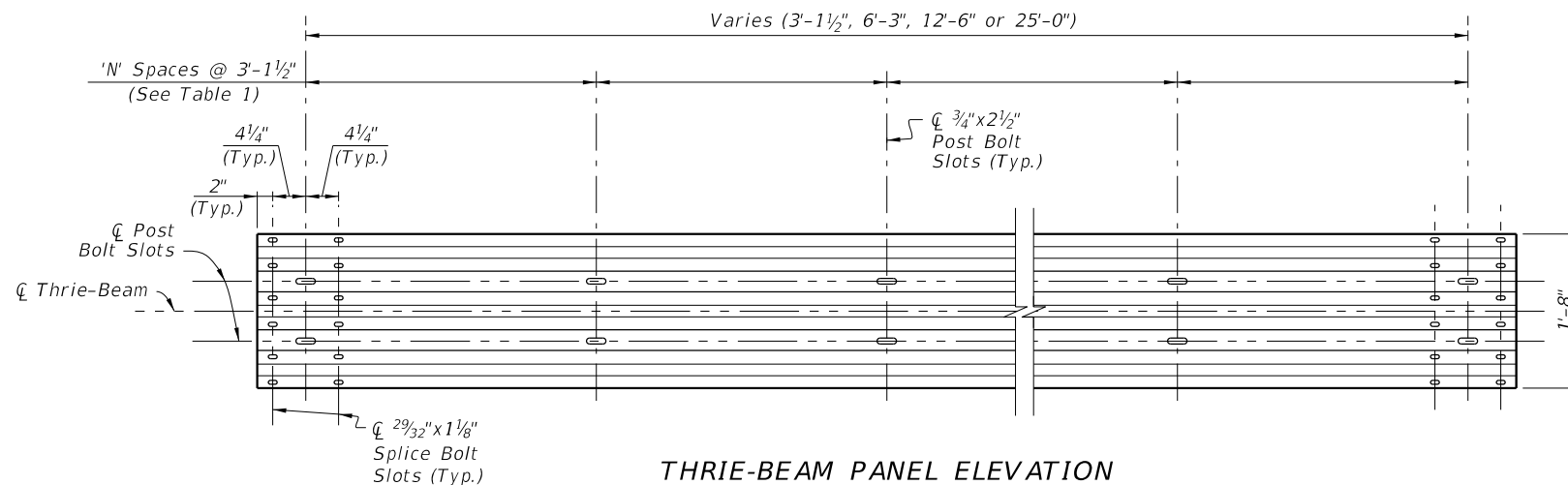
W-BEAM PANEL SECTION



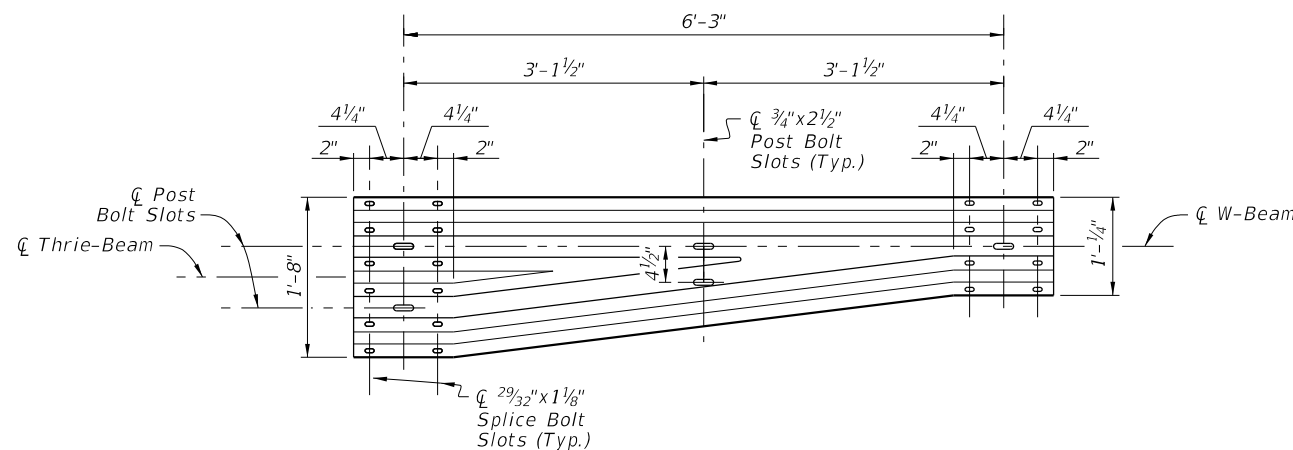
THRIE-BEAM PANEL SECTION



W-BEAM PANEL ELEVATION



THRIE-BEAM PANEL ELEVATION



THRIE-BEAM TRANSITION PANEL ELEVATION
(Reverse Direction Similar by Opposite Hand)

PANEL SUMMARY TABLE:

Panel Type	Number of Spaces 'N'	Gauge
6'-3" W-Beam	2	12
9'-4 1/2" W-Beam	3	12
12'-6" W-Beam	4	12
15'-7 1/2" W-Beam	5	12
25'-0" W-Beam	8	12
3'-1 1/2" Thrie-Beam	1	10
6'-3" Thrie-Beam	2	12
12'-6" Thrie-Beam	4	12
25'-0" Thrie-Beam	8	12
Thrie-Beam Trans.	2	10

NOTES:

1. MATERIALS:
Use corrugated steel panels in accordance with Specification 967 and made from either Class A, 12 gauge steel or Class B, 10 gauge steel as specified in the 'Panel Summary Table' above.

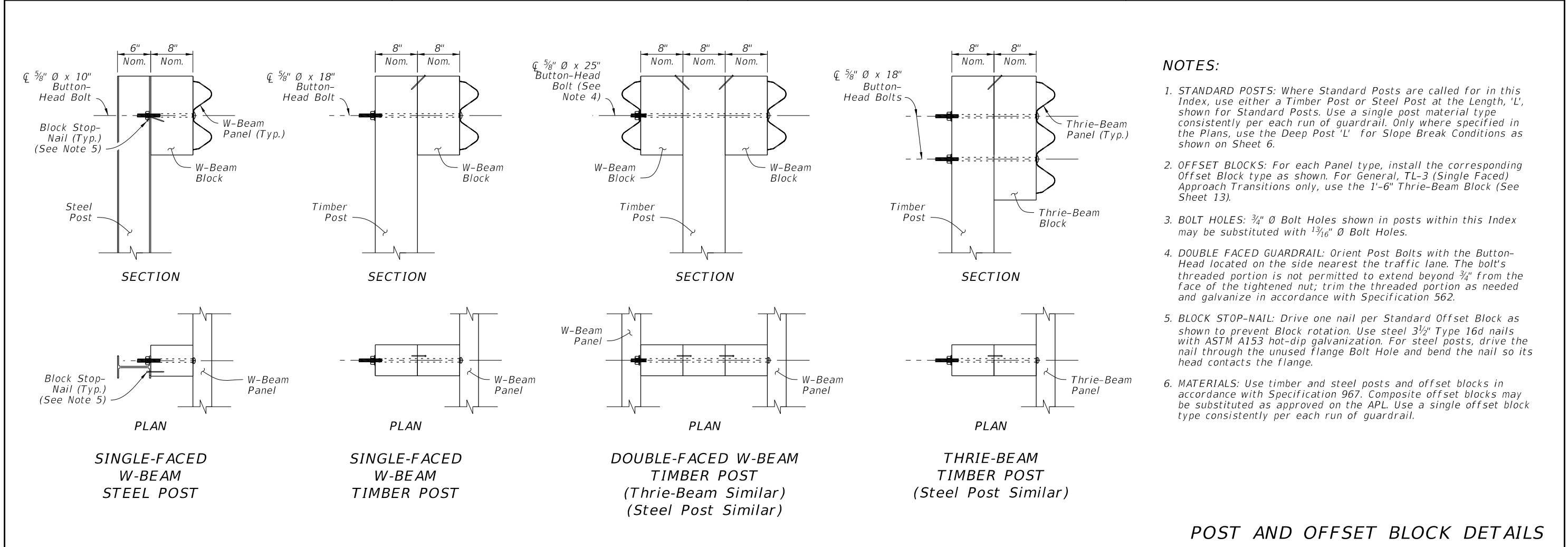
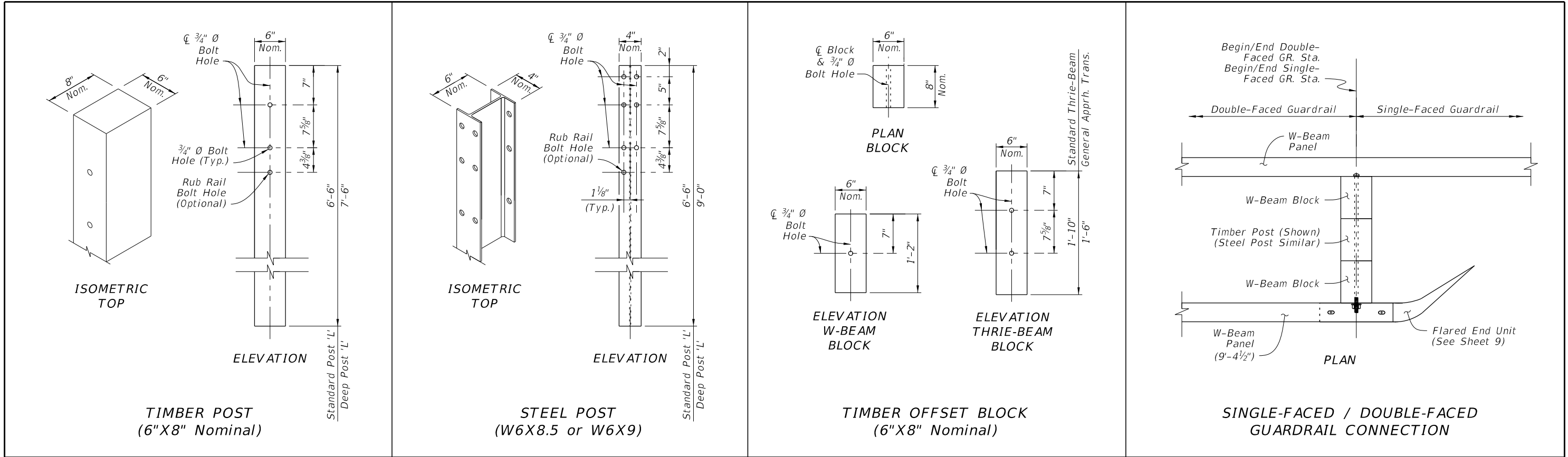
2. CABLE ANCHOR PLATE BOLT HOLES:
Include 3/4" Ø Cable Anchor Plate Bolt Holes only where required for installation of the Cable Anchor Plate shown on Sheet 9, 10, & 11.

29/32" x 1 1/8" slots may substitute for the 3/4" Ø holes shown.

W-BEAM AND THRIE-BEAM PANEL DETAILS

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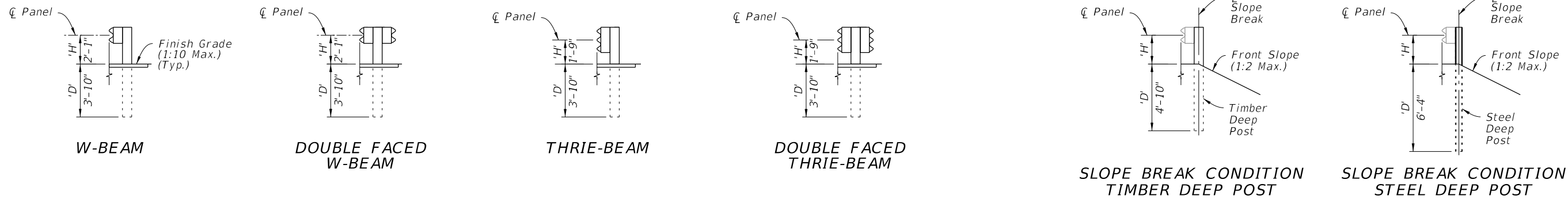
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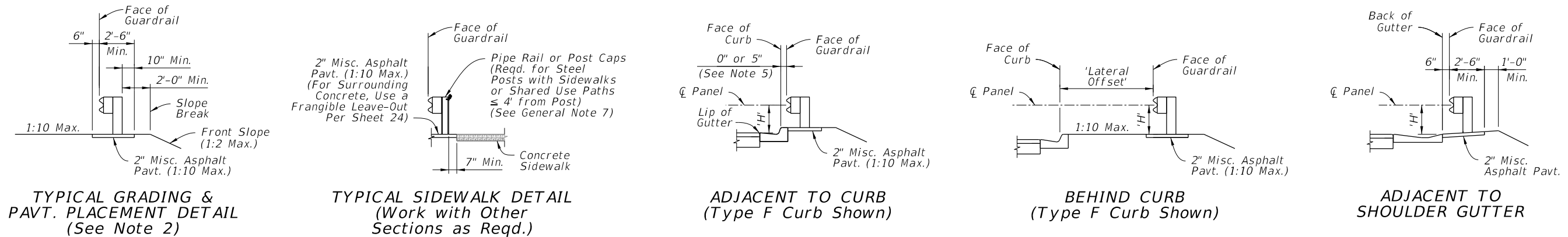
POST AND OFFSET BLOCK DETAILS

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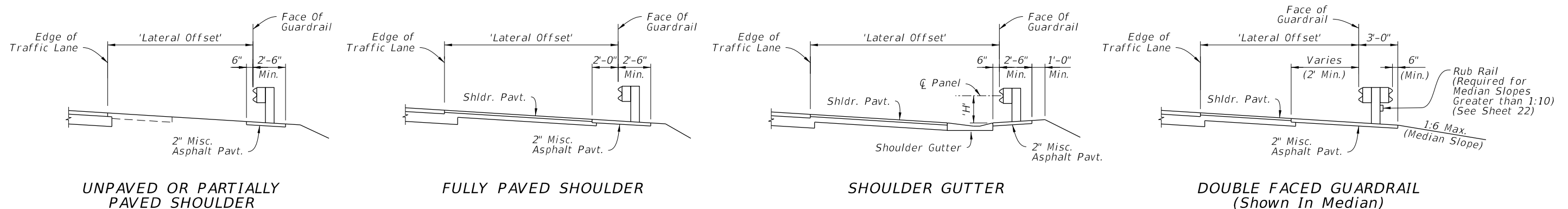


GUARDRAIL TYPES - MOUNTING HEIGHTS & POST DEPTHS



GUARDRAIL SECTIONS - TYPICAL

GUARDRAIL SECTIONS - CURB & GUTTER



GUARDRAIL SECTIONS - SHOULDERS

GUARDRAIL HEIGHT SUMMARY TABLE:			
Type:	Min. Depth 'D':	Mounting Height 'H':	Post Length 'L':
W-Beam (Single and Double Faced)	3'-10"	2'-1"	6'-6"
Thrie-Beam (Single and Double Faced)	3'-10"	1'-9"	6'-6"
Timber Deep Post	4'-10"	See Above	7'-6"
Steel Deep Post	6'-4"	See Above	9'-0"

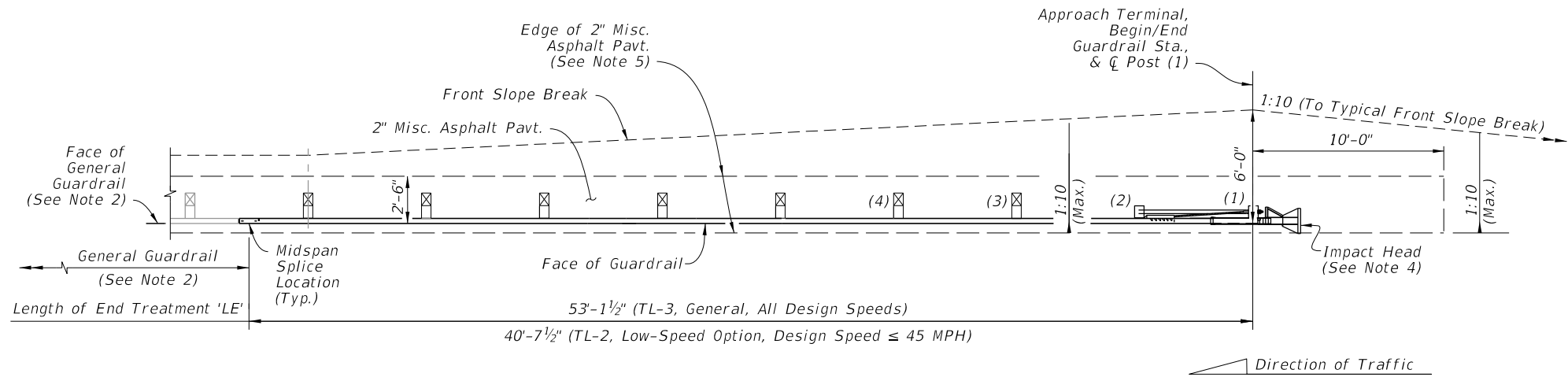
NOTES:

- GUARDRAIL SECTIONS:** Construct Sections as indicated in the Plans. The details shown herein depict W-Beam Guardrail, but are applicable to the other defined Guardrail Types placed at the corresponding height, 'H'. Use components per Sheets 4 & 5. Steel and timber post types are interchangeable unless otherwise defined. The 1:10 Max. cross slope shown is the maximum slope permitted for proper guardrail function, but project-specific cross slope requirements are governed by additional design criteria, per the Plans.
- TYPICAL GRADING & PAVEMENT PLACEMENT DETAIL:** Construct features as depicted except where superceded by specific Guardrail Sections or the plans. Place the Slope Break a Minimum of 2' behind the post. For Deep Posts, the slope break may be placed at the ϕ Post with the 2" Miscellaneous Asphalt Pavement omitted unless shown in the Plans.
- SLOPE BREAK CONDITION:** Install Deep Posts only where called for in the Plans. Deep Posts are only permitted where post spacing is 6'-3" or less.
- LATERAL OFFSETS:** The Lateral Offsets shown are governed by the station and offset call outs for Face of Guardrail, as shown in the Plans.
- ADJACENT TO CURB:** Place the Face of Guardrail consistently offset either flush with the Face of Curb or 5" behind the Face of Curb, as indicated by the Plans station and offset callout. For offset changes, transition the Face of Guardrail as shown in the Plans.

GUARDRAIL SECTIONS

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APPROACH TERMINAL ASSEMBLY
'PARALLEL' TYPE - PLAN VIEW

NOTES:

1. **INSTALLATION:** Locate Approach Terminals where called for in the Plans, with the Post (1) placed at the Begin/End Guardrail Station indicated in the Plans.

The Plan Views shown herein are schematic only, showing basic geometry for Approach Terminals listed on the APL. The predefined Length of End Treatment, 'LE', includes the proprietary portion of various Approach Terminals and provides for more consistent planning of assembly installations across the differing Approach Terminal types. Forward-anchoring style Approach Terminals may vary from the planned lengths shown by up to 3'-0".

Construct Approach Terminals as shown in the APL and in accordance with the manufacturer's unique drawing details, procedures, and specifications.

Install posts in accordance with the manufacturer's drawings. The Special Posts on Sheet 24, including Special Steel Posts, Encased Posts, and Frangible Leave-Outs, are not permitted within the Approach Terminal segment unless otherwise called for in the Plans.

Align panel lap splices in accordance with the manufacturer's drawings, regardless of the direction of traffic.

Install adjacent grading, gutters, and/or curbing as shown herein.

2. **GENERAL GUARDRAIL:** General Guardrail typically includes Panels and Post Spacing as shown on Sheet 2, including parallel and tapered segments.

Approach Transitions, Low-Speed Guardrail, or Reduced Post Spacing Guardrail segments may be substituted for the General Guardrail shown herein if indicated in the Plans.

3. **APPROACH TERMINAL TEST LEVEL:** Install either a Test Level 3 (TL-3) or Test Level 2 (TL-2) Approach Terminal as specified in the Plans. TL-3 Approach Terminals may substitute for TL-2 Approach Terminals unless the substitution is specifically prohibited in the Plans. TL-2 Approach Terminals may not substitute for TL-3 installations.

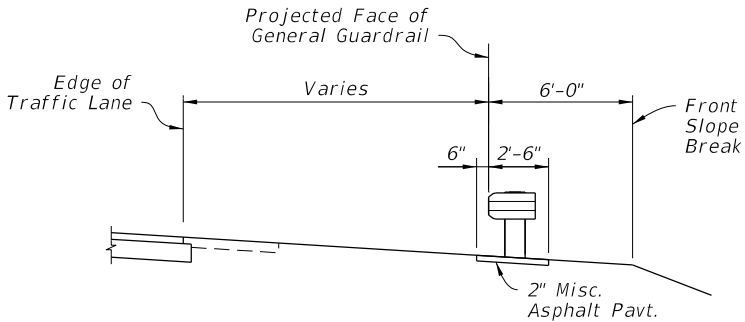
4. **IMPACT HEAD END DELINEATOR:** Apply Yellow Retroreflective Sheeting to the nose of the End Terminal in accordance with Specification 536.

5. **2" MISCELLANEOUS ASPHALT PAVEMENT:** The Plan View depicts the Unpaved Shoulder condition. For Fully Paved Shoulder and Shoulder Gutter conditions, extend the 2" Misc. Asphalt Pavement as shown in the corresponding 'Section at Post (1)' details below.

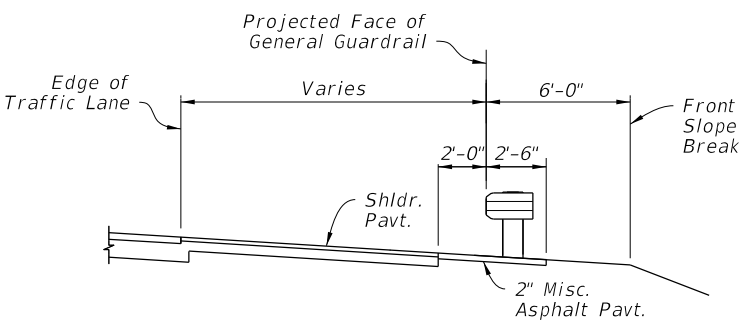
The 2" Misc. Asphalt Pavement shown upstream of Post (1) may be substituted with a different pavement type where called for in the Plans.

6. **CLEAR AREA REQUIREMENT:** Do not place any permanent aboveground installations within the areas shown with 1:10 maximum grading. For the finished condition, keep this area free of all aboveground obstructions, including dense vegetation and trees.

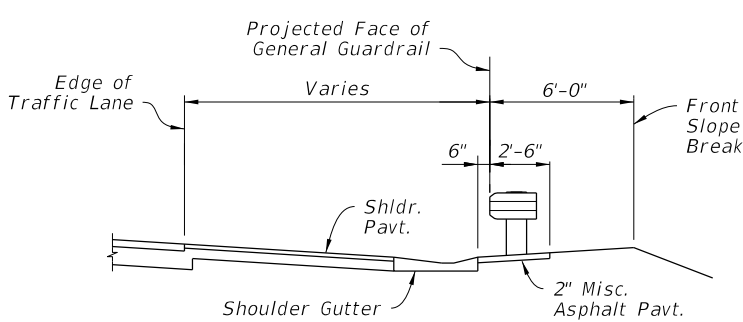
7. **'CURBED' AND 'DOUBLE FACED' GUARDRAIL SEGMENTS:** See Sheet 8.



SECTION AT POST (1)
WITH UNPAVED SHOULDER



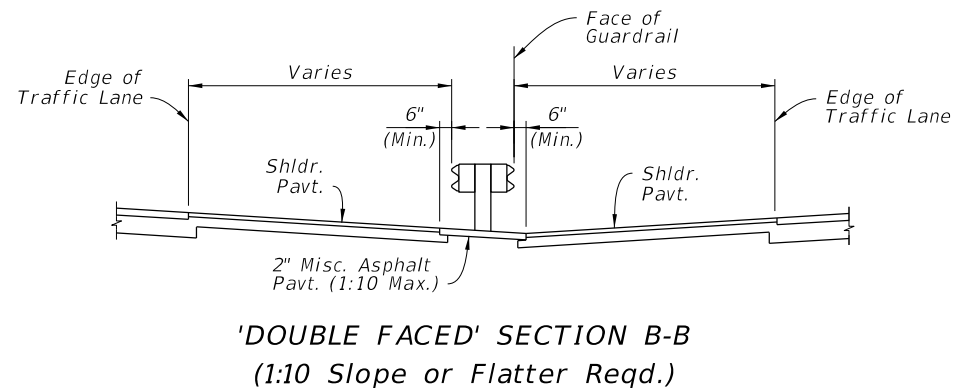
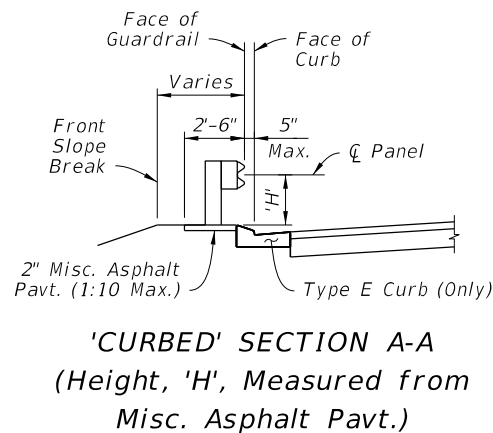
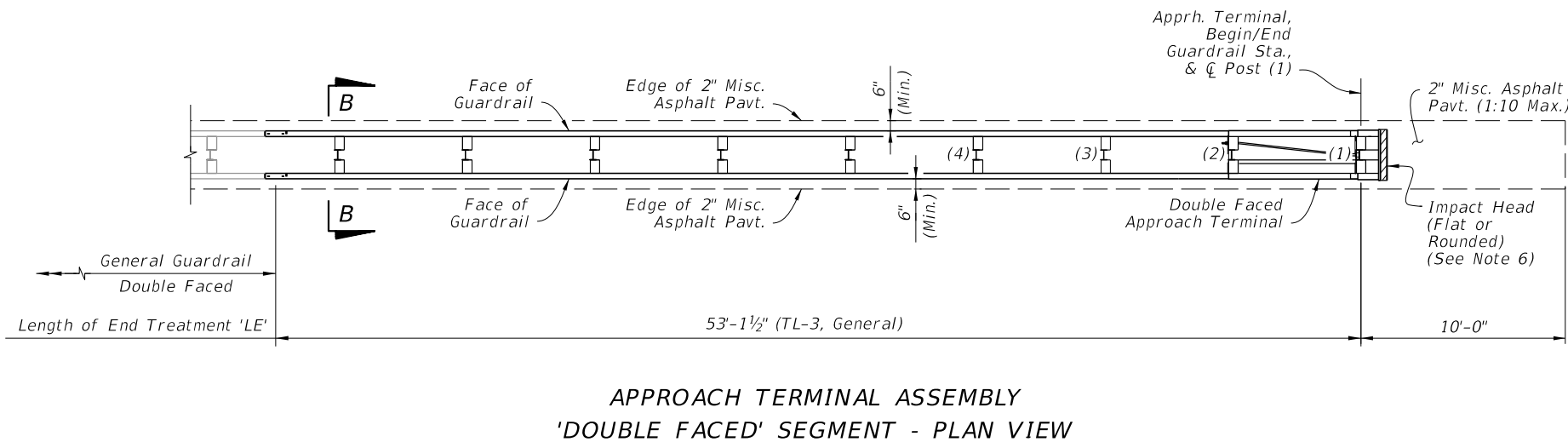
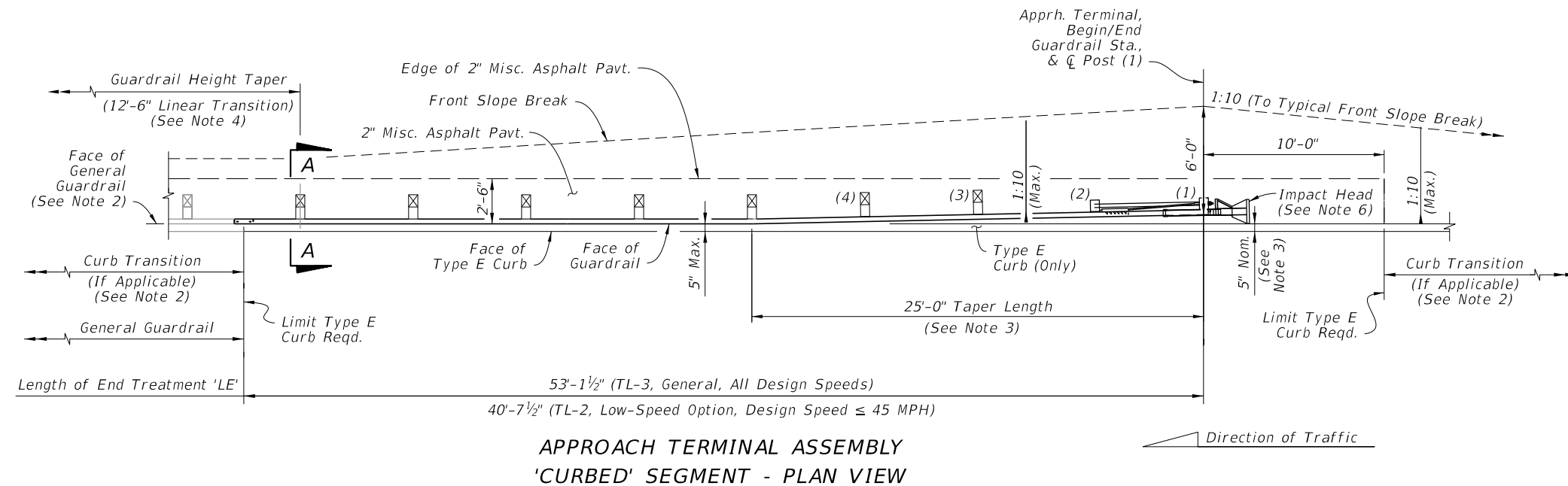
SECTION AT POST (1)
WITH FULLY PAVED SHOULDER



SECTION AT POST (1)
WITH SHOULDER GUTTER

END TREATMENT - APPROACH TERMINAL GEOMETRY - PARALLEL

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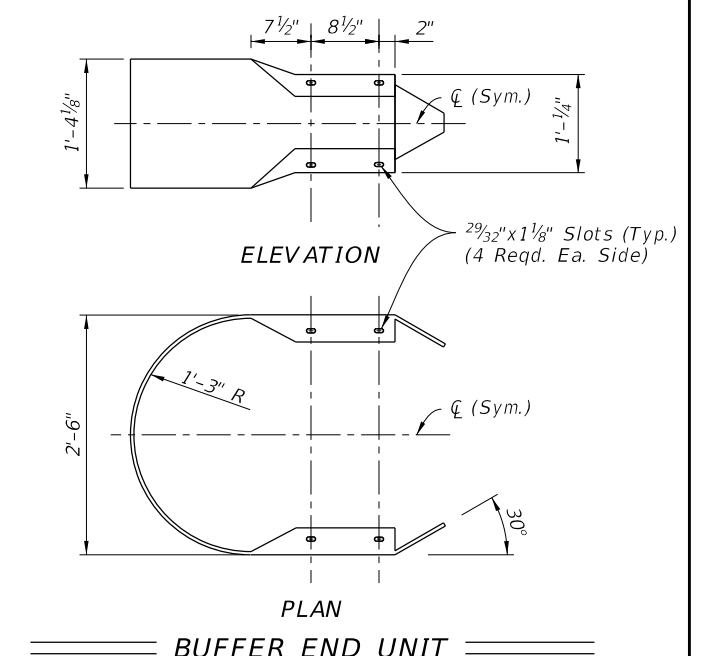


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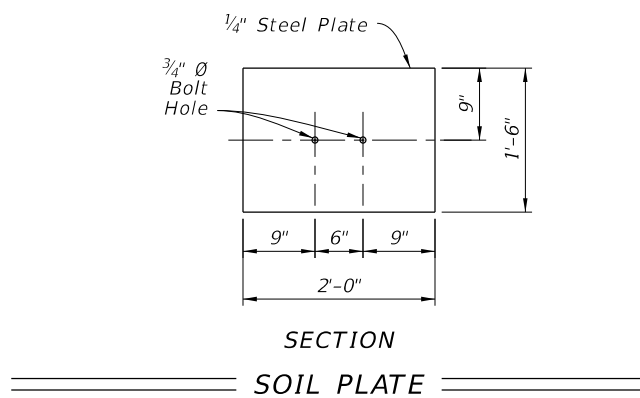
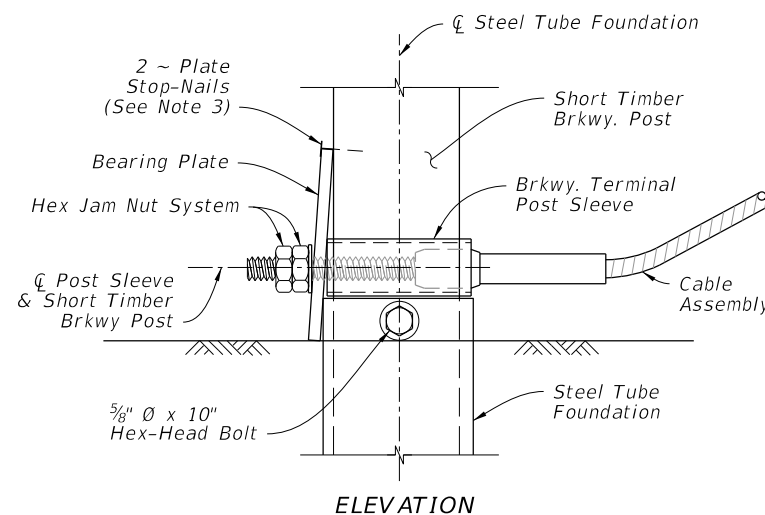
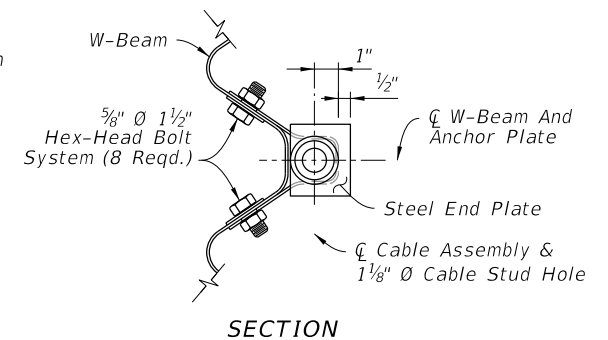
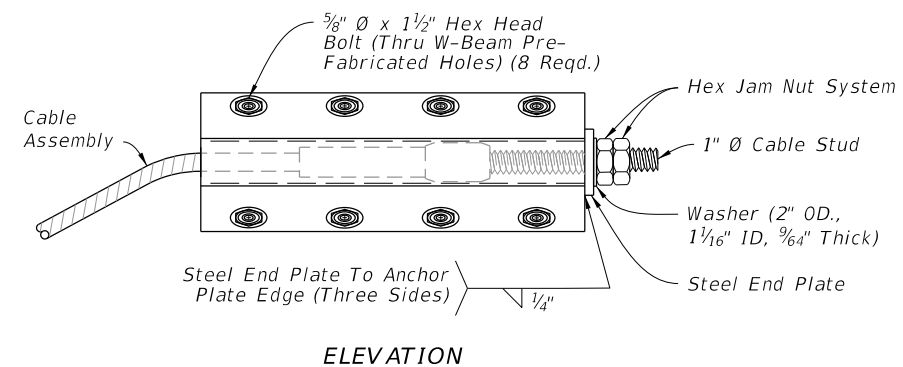
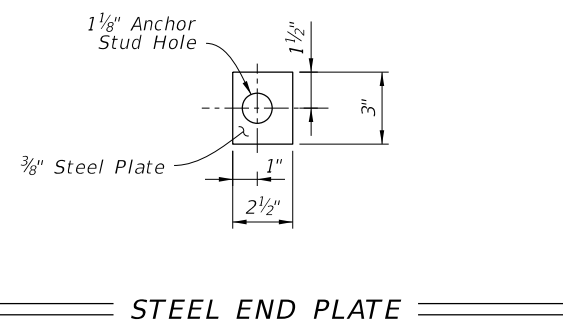
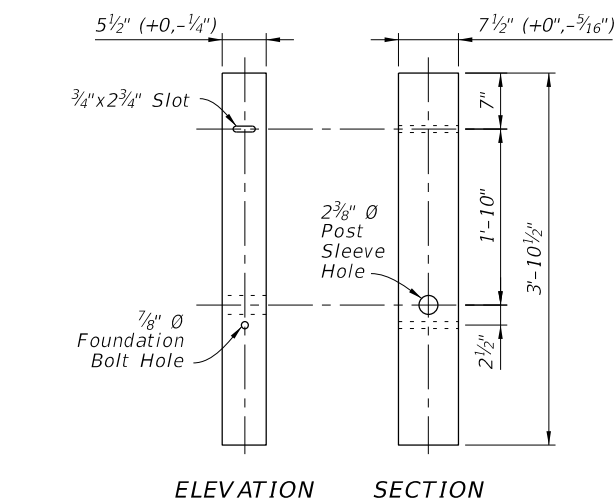
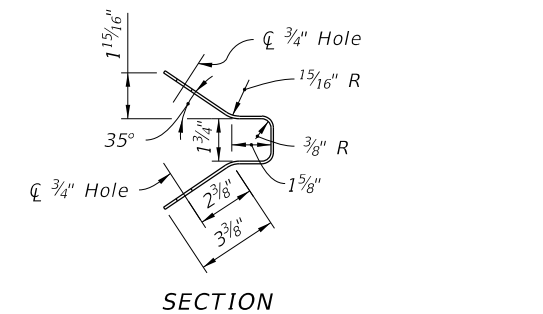
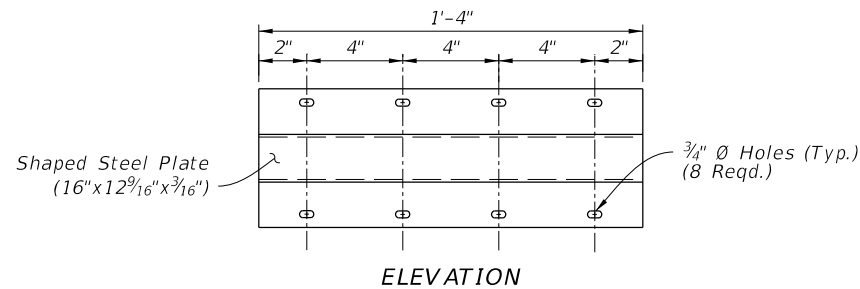
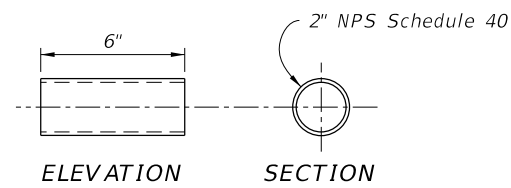
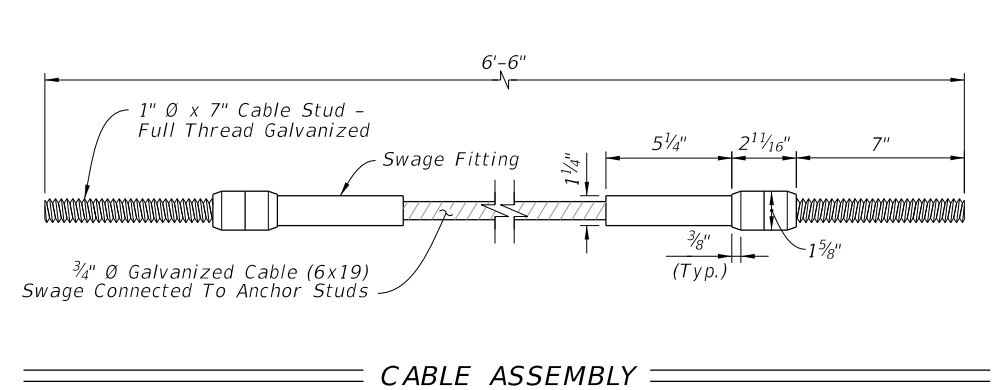
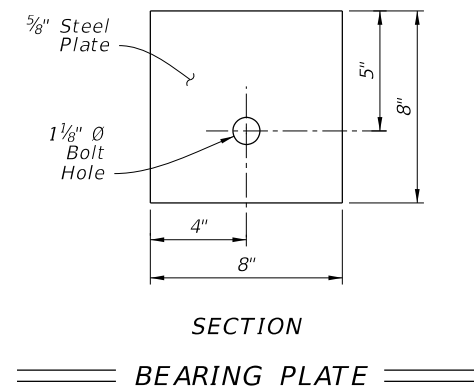
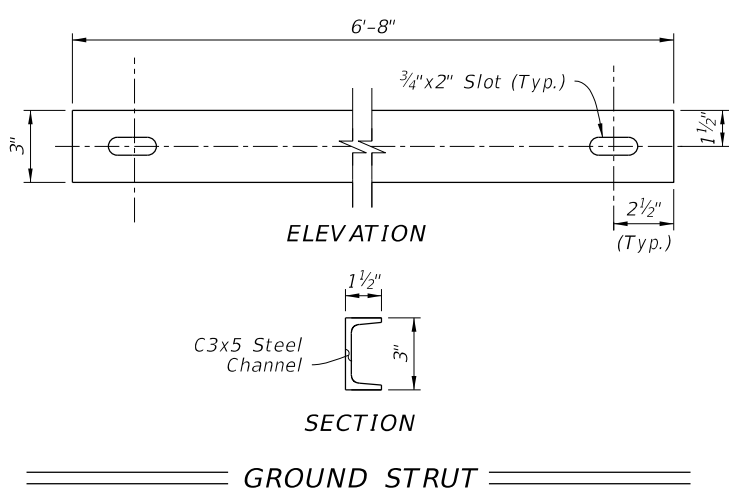
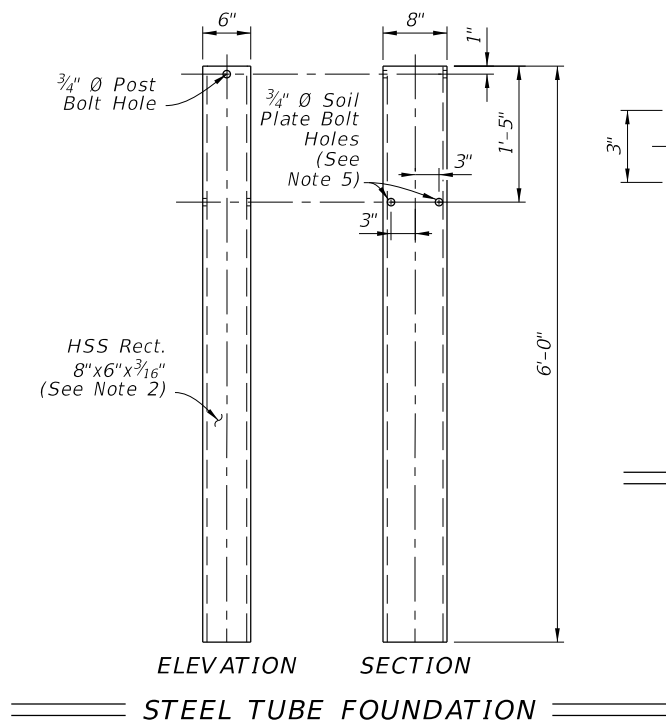
1. GENERAL: See Notes 1 through 3 on Sheet 7.
2. CURBED SEGMENTS: Type E curb is required within the limits shown. When a different curb type is called for outside of the Type E curb limits, transition the curb shape linearly, over a nominal distance ranging 5'-0" to 10'-0"
3. TAPER LENGTH: For Curbed Segments, taper the guardrail away from the roadway where shown to place the inside edge of the Impact Head at 5" behind the face of the curb. Where additional lateral offset is required to fit the Approach Terminal Assembly hardware, such as a soil plate, place the Impact Head as close to the curb as the hardware allows, not to exceed 2'-0" from the face of curb.
4. GUARDRAIL HEIGHT TAPER: For Curbed Segments, the connecting General Guardrail Mounting Height, 'H', is typically measured from the Lip of Gutter (See Sheet 6 Guardrail Sections, 'Adjacent to Curb'), while the End Terminal Assembly 'H' is measured from the Misc. Asphalt Pavt. (See Section A-A). Linearly taper the difference in Mounting Height over a minimum length of 12'-6", starting where indicated herein.
5. DOUBLE FACED SEGMENT: Connect to Double Faced General Guardrail. Use consistent Posts and Offset Block types as specified in the APL drawings over the entire Length of End Treatment, 'LE'. Posts and Offset Blocks in the adjoining General Guardrail segment may be different from those inside of the 'LE'. A change in post type between timber and steel is permitted, immediately outside of the 'LE' segment.
6. IMPACT HEAD END DELINEATOR: Apply Yellow Retroreflective Sheeting to the nose of the End Terminal in accordance with Specification 536.
7. CLEAR AREA REQUIREMENT: Do not place any permanent aboveground installations within the areas shown with 1:10 maximum grading. For the finished condition, keep this area free of all aboveground obstructions, including dense vegetation and trees.
8. 2" MISCELLANEOUS ASPHALT PAVEMENT: The 2" Misc. Asphalt Pavement shown upstream of Post (1) may be substituted with a different pavement type where called for in the Plans.
9. SINGLE FACED 'PARALLEL' SEGMENTS: See Sheet 7.

END TREATMENT - APPROACH TERMINAL GEOMETRY CURBED AND DOUBLE FACED

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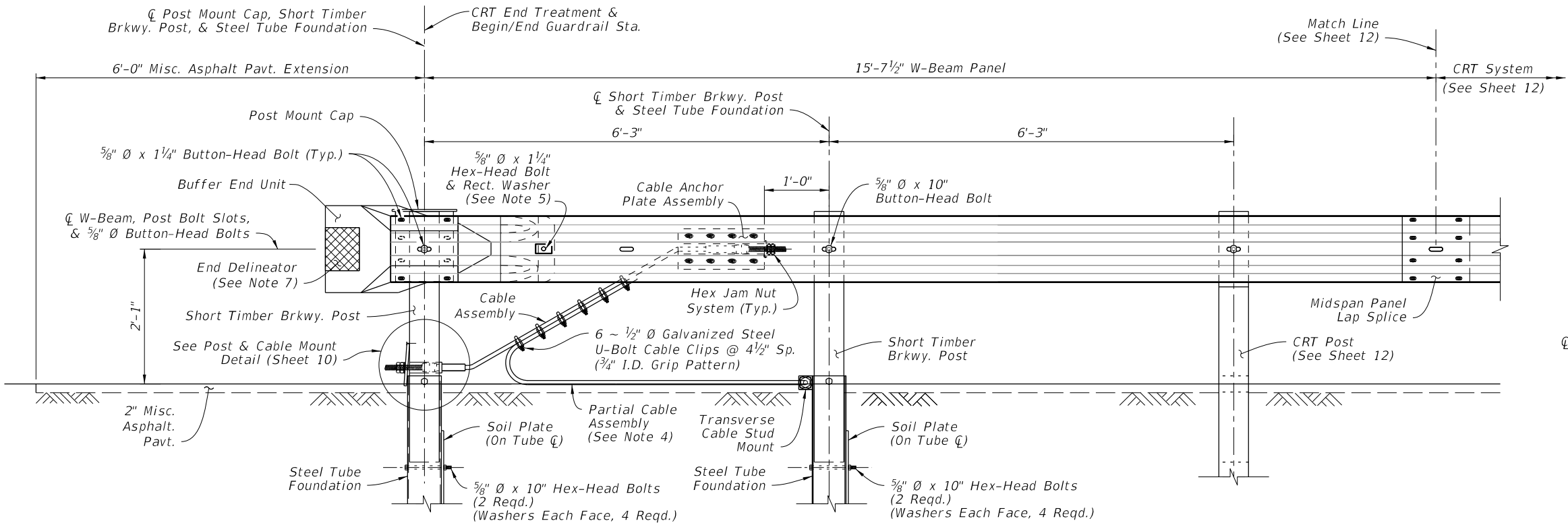


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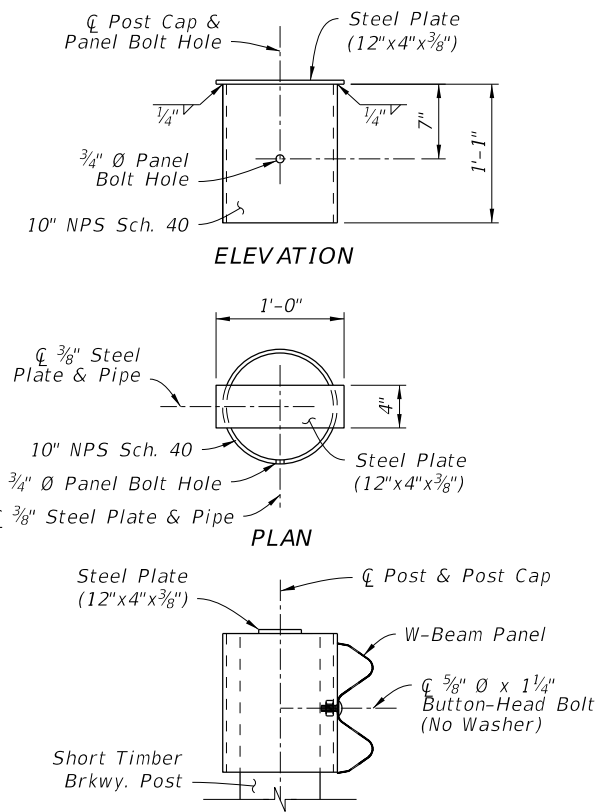
1. **INSTALLATION:** Use components as shown on Sheets 9 & 11.
2. **MATERIALS:** Use steel plates, channels, and Cable Assemblies in accordance with Specification 967.
Use Short Timber Breakaway Posts and Steel Tube Foundations in accordance with Specification 536.
Use Hex Nuts, Hex Jam Nuts, and Washers in accordance with the AASHTO-AGC-ARTBA Guide to Standardized Barrier Hardware with English unit equivalents of components FNx24a and FWC24a, respectively. Two Hex Nuts may be used for the Hex Jam Nut System.
3. **PLATE STOP-NAILS:** To prevent rotation of the Bearing Plate, drive steel 2 1/2" Type 8d nails with ASTM A153 hot-dip galvanization.
4. **CABLE ANCHOR PLATE ASSEMBLY INSTALLATION:** Mount to the pre-fabricated Cable Anchor Plate Bolt Holes in the W-Beam Panel, as shown on Sheet 4. These panel holes are only permitted for this Cable Anchor Plate Assembly application.
5. **SOIL PLATE BOLT HOLE(S):** For Trailing Anchorage installations as shown on Sheet 9, the two bolt holes shown may be substituted with a single bolt hole located at the tube centerline.

END TREATMENT - COMPONENT DETAILS

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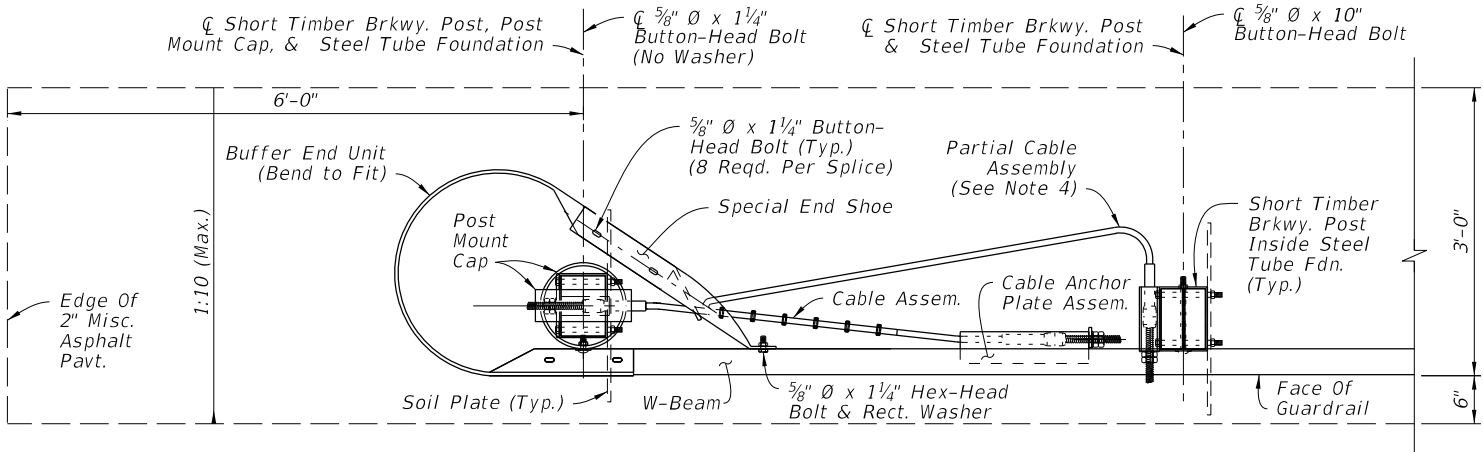


INSTALLED ELEVATION



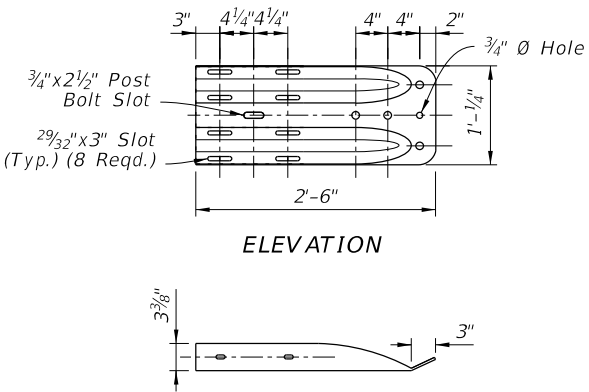
INSTALLED SECTION

POST MOUNT CAP



INSTALLED PLAN

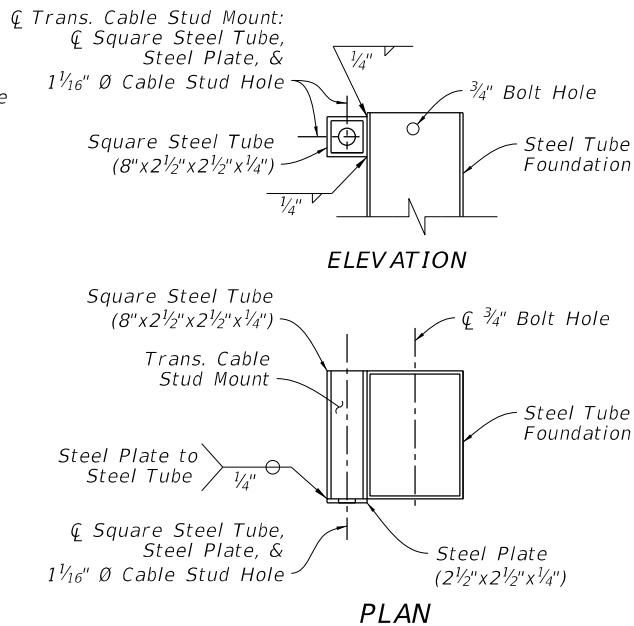
CRT END TREATMENT ASSEMBLY



ELEVATION

PLAN

SPECIAL END SHOE



ELEVATION

PLAN

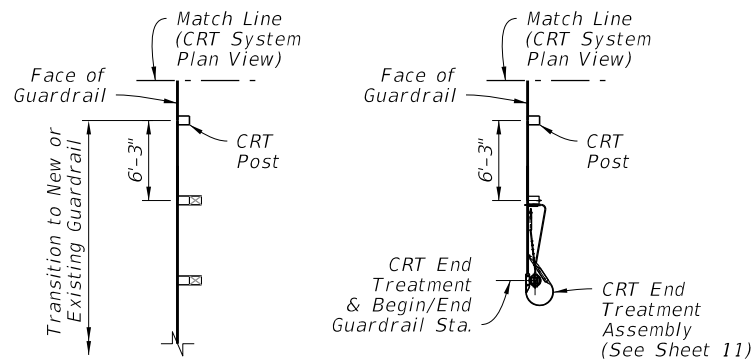
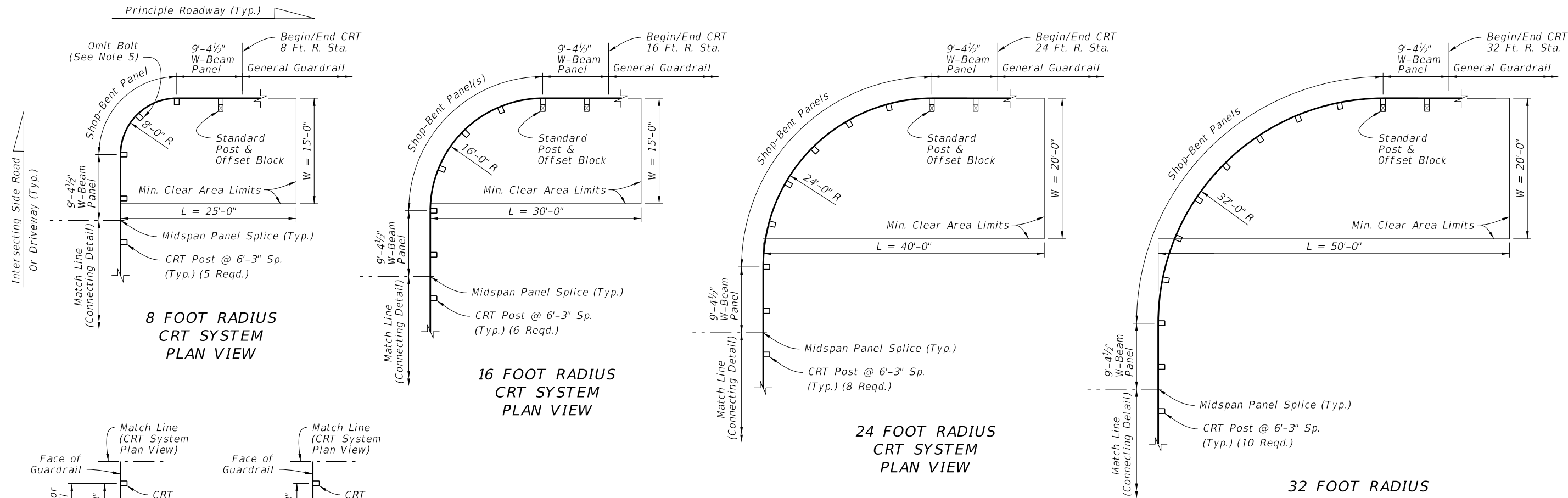
TRANSVERSE CABLE STUD MOUNT

END TREATMENT - CONTROLLED RELEASE TERMINAL (CRT) SYSTEM

NOTES:

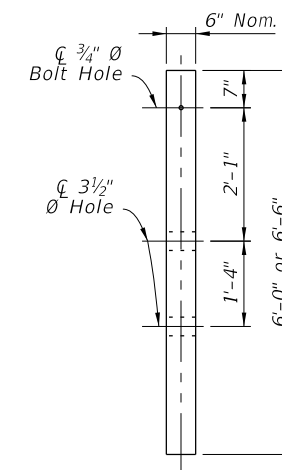
1. INSTALLATION: Use with CRT Systems as required on Sheet 12.
2. COMPONENT DETAILS: For additional component details, See Sheet 10 & 12. For the Rectangular Washer detail, see Sheet 25.
3. MATERIALS: Use steel End Shoes, Plates, Tubes, and pipes in accordance with Specification 967.
4. PARTIAL CABLE ASSEMBLY: The Partial Cable Assembly is similar to the Cable Assembly defined on Sheet 10, except with a 9'-0" total length and the Swage Fitting and Cable Stud omitted from one end.
Feed the Cable Stud through the Cable Stud Hole of the Transverse Cable Stud Mount as shown, and secure it with the Hex Jam Nut System as defined on Sheet 10.
5. SPECIAL END SHOE MOUNT: Punch a 3/4" Ø hole in the W-Beam Panel as needed to secure the Special End Shoe with the 5/8" Ø Hex-Head Bolt. Galvanize hole per Specification 562.
6. FOUNDATIONS: Install Steel Tubes with attached Soil Plates by either of the following methods:
 - a. Excavate, backfill, and compact material to provide full passive soil resistance to all surfaces of the tube and soil plate.
 - b. Drive the steel tube and soil plate as a single unit using a dummy timber post to prevent damage to the breakaway post.
7. END DELINEATOR: Mount retroreflective sheeting to the approach face of the Buffer End Unit in accordance with Specifications 536 and 967.

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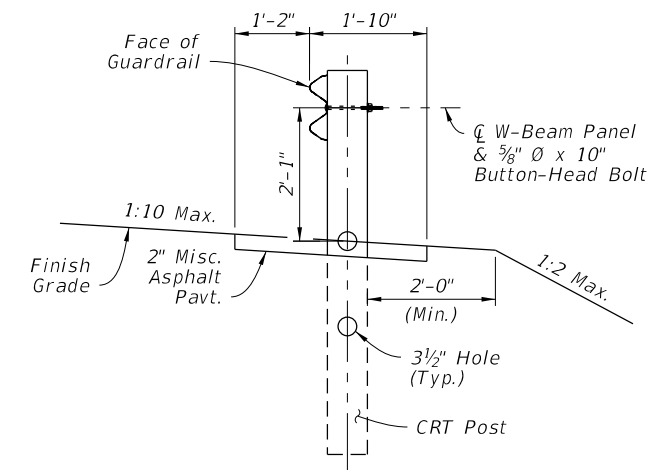


CRT SYSTEM SUMMARY TABLE:

RETURN RADIUS (FT.)	LENGTH OF SHOP-BENT PANEL(S) (FT.)	QUANTITY OF CRT POSTS	AREA CLEAR OF HAZARDS 'L' x 'W' (FT.)
8	12.5	5	25 x 15
16	25.0	6	30 x 15
24	37.5	8	40 x 20
32	50.0	10	50 x 20



CRT POST ELEVATION
(6"x8" Nom. Timber)



CRT INSTALLED SECTION

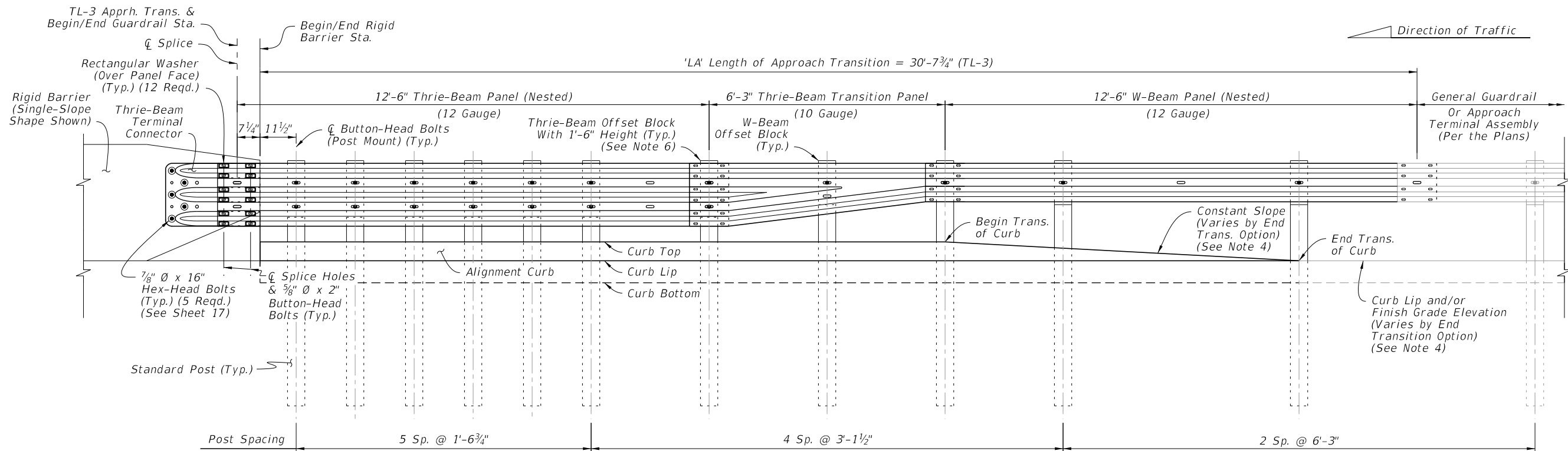
NOTES:

1. INSTALLATION: Construct the specified radius layout and Connecting Detail option as shown in the Plans.
2. MIN. CLEAR AREA: Keep the area behind the CRT free of fixed objects and aboveground hazards within the Min. Clear Area limits shown. Maintain a slope not steeper than 1:10 for a minimum 2' behind the posts, and maintain a slope not steeper than 1:2 beyond 2' from the posts.
3. APPROACH GRADING: Maintain grading on the roadway side of the guardrail face at a maximum slope of 1:10.
4. MATERIALS: For CRT Posts, use Timber Post material in accordance with Specification 967. Use steel panels and hardware in accordance with Specification 967.
5. BOLT OMISSION: For the 8 Foot Radius CRT System only, do not place a panel-to-post mount bolt at the center CRT Post (omit the 5/8" Button-Head Bolt only at the location shown).
6. SHOP-BENT PANELS: Install Shop-Bent panel(s) where indicated using 12'-0" or 25'-0" W-Beam Panels. Splice at post locations within the CRT radius using the General configuration of 5/8" Ø Button-Head Bolts (8 reqd. per splice).
7. GENERAL GUARDRAIL: General Guardrail typically includes Panels and Post Spacing as shown on Sheet 2, including parallel and tapered segments. Approach Transitions, Low-Speed Guardrail, or Reduced Post Spacing Guardrail segments may be substituted for the General Guardrail shown herein if indicated in the Plans.

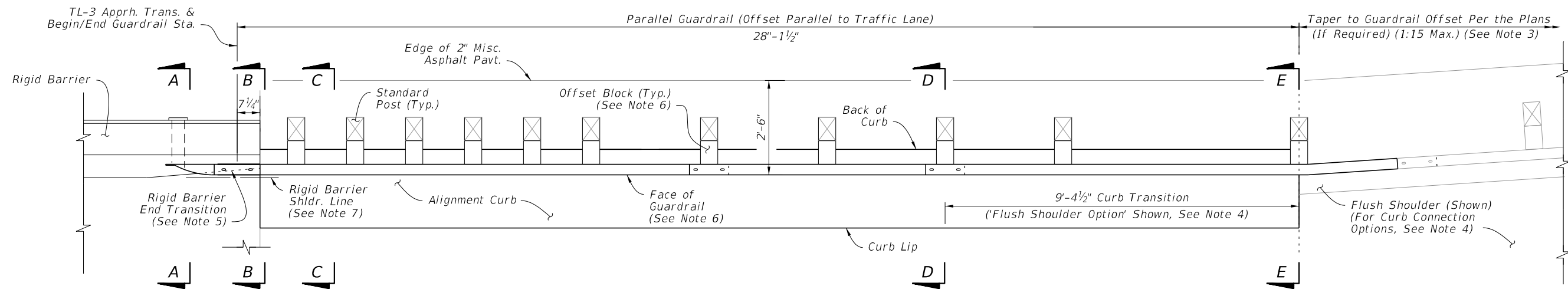
LAYOUT FOR CONTROLLED RELEASE
TERMINAL (CRT) SYSTEMS -
SIDE ROADS AND DRIVEWAYS

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TL-3 APPROACH TRANSITION
INSTALLED ELEVATION



TL-3 APPROACH TRANSITION
INSTALLED PLAN

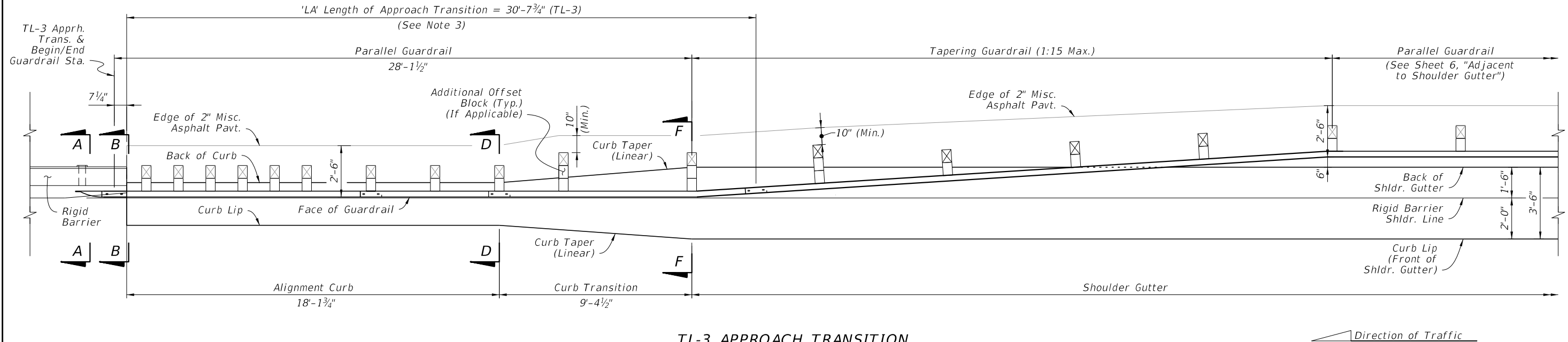
NOTES:

- INSTALLATION:** Construct the TL-3 Approach Transition segment where indicated in the Plans. For example Layouts showing the Approach Transition's fit among other guardrail segments, see Sheet 19.
For existing bridge connection options, see Indexes 536-002, 521-404, and 521-405.
- SECTION VIEWS & DETAILS:** For cross sections and details, including the barrier mounting hardware, curb transition, adjacent grading, and installation dimensions, see Sheet 17.
- GUARDRAIL TAPER:** The connecting guardrail may require a different lateral offset if shown in the Plans. At the location shown herein, taper the guardrail to the connecting guardrail offset. If the adjacent guardrail segment has the same offset as the Approach Transition segment, then no taper is required.
- END TRANSITION OF CURB OPTIONS:** The Plan and Elevation views depict an example Curb Transition to Flush Shoulder from Section D-D to E-E, but this transition may require a different shape depending on the End Transition option shown in the Plans (Either a 'Shoulder Gutter Option', 'Raised Curb Option', or 'Flush Shoulder Option'). See Sheet 14 for additional curb options and Sheet 17 for curb shape details.
- RIGID BARRIER END TRANSITION:** Taper the Rigid Barrier toe as shown. See Concrete Barrier, Index 521-001, and Traffic Railing, Indexes 521-422 and 521-428, for details.
- OFFSET BLOCKS:** For Thrie-Beam post locations within the Length of Approach Transition segment, use the Timber Offset Blocks with 1'-6" height shown on Sheet 5.
For the midspan of the Thrie-Beam Transition Panel and for all other W-Beam locations shown herein, use the W-Beam Offset Blocks with 1'-2" height.
- OFFSET:** The required offset difference between the Face of Guardrail and Rigid Barrier Shoulder Line is considered negligible and may not be shown in the guardrail offset callouts in the Plans. A consistent guardrail offset deviation of up to 4 inches outside of the Rigid Barrier Shoulder Line is permitted over the length 'LA'.
- GENERAL GUARDRAIL:** General Guardrail typically includes Panels and Post Spacing as shown on Sheet 2, including parallel and tapered segments. Approach Terminals, Low-Speed Guardrail, or Reduced Post Spacing Guardrail segments may be substituted for the General Guardrail shown herein if indicated in the Plans.

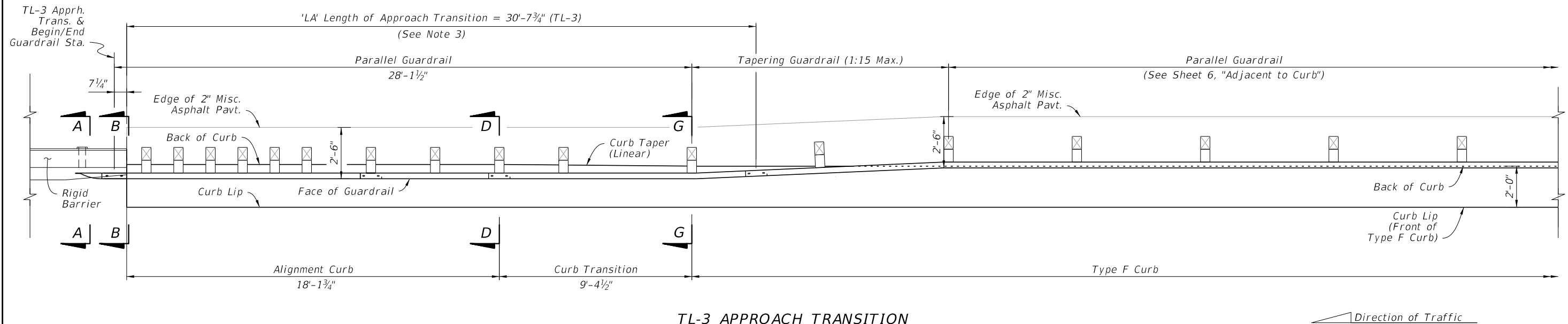
APPROACH TRANSITION CONNECTION
TO RIGID BARRIER - GENERAL, TL-3

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TL-3 APPROACH TRANSITION
WITH 'SHOULDER GUTTER'
CONNECTION - PLAN VIEW



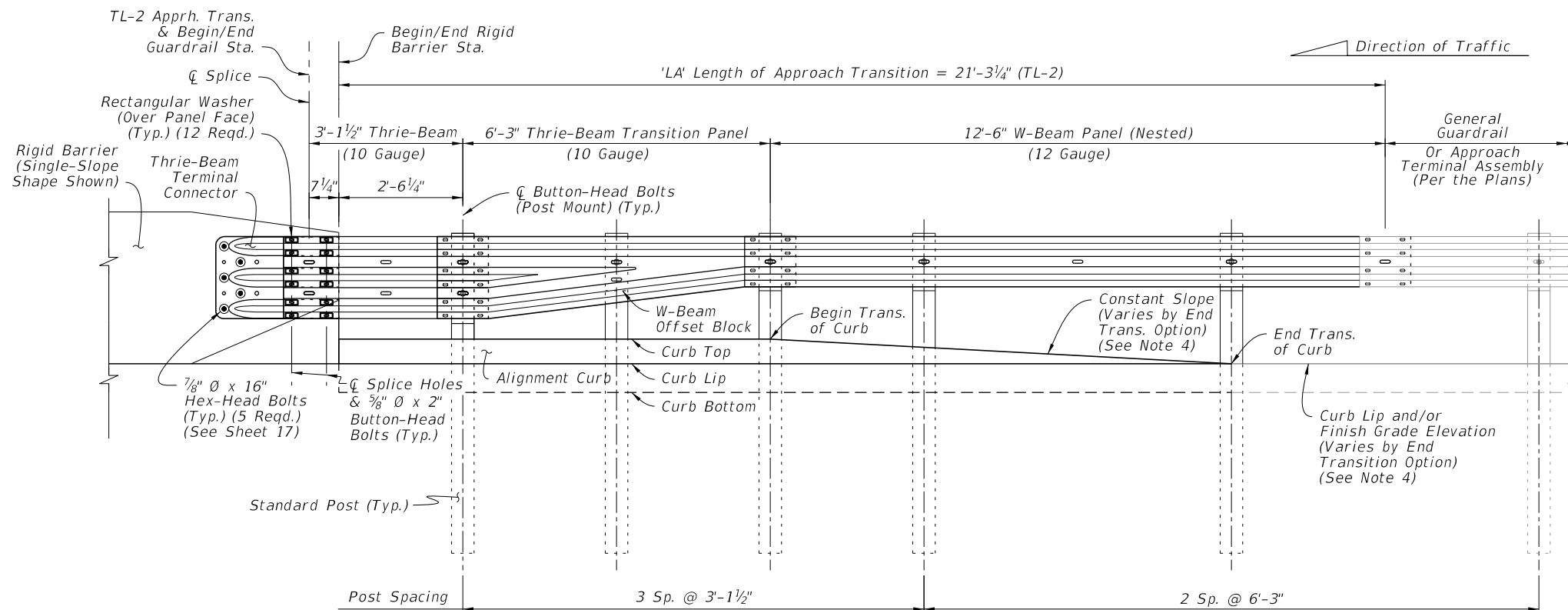
TL-3 APPROACH TRANSITION
WITH 'TYPE F CURB'
CONNECTION - PLAN VIEW

NOTES:

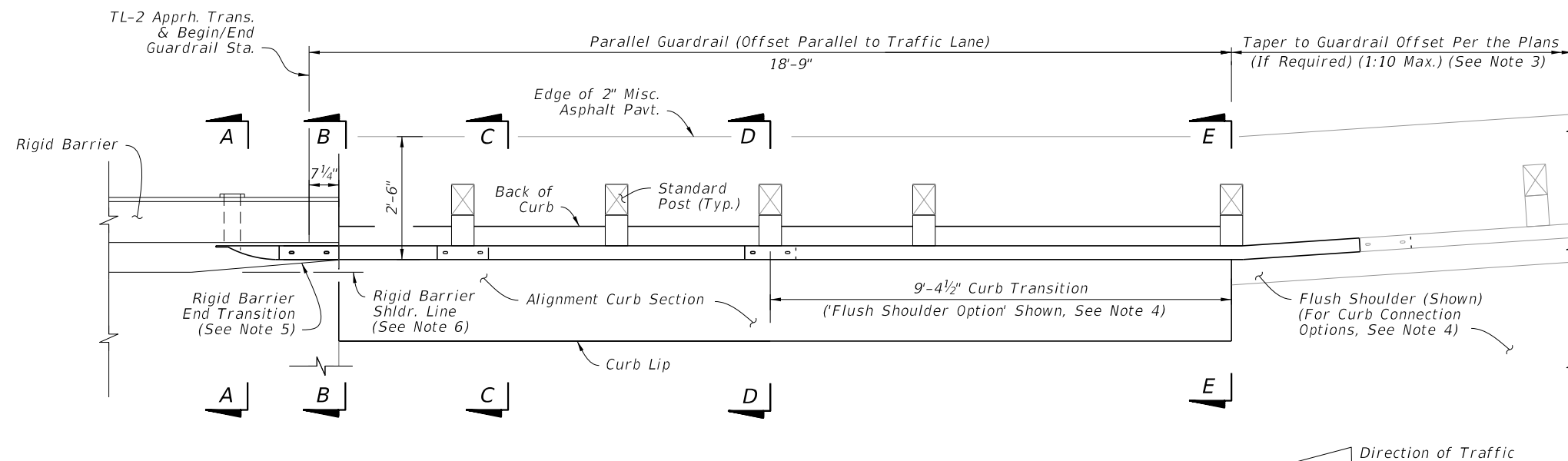
1. GENERAL: See the applicable notes and details on Sheet 13.
2. SECTION VIEWS & DETAILS: For cross sections and details, including the barrier mounting hardware, curb transition, adjacent grading, and installation dimensions, see Sheet 17.
3. ELEVATION VIEW: For post and panel installation details within 'LA', see the elevation view on Sheet 13. The curb details will differ depending on curb option required.

APPROACH TRANSITION CONNECTION TO RIGID BARRIER - GENERAL, TL-3 CURB CONNECTIONS

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TL-2 APPROACH TRANSITION
INSTALLED ELEVATION



TL-2 APPROACH TRANSITION
INSTALLED PLAN

NOTES:

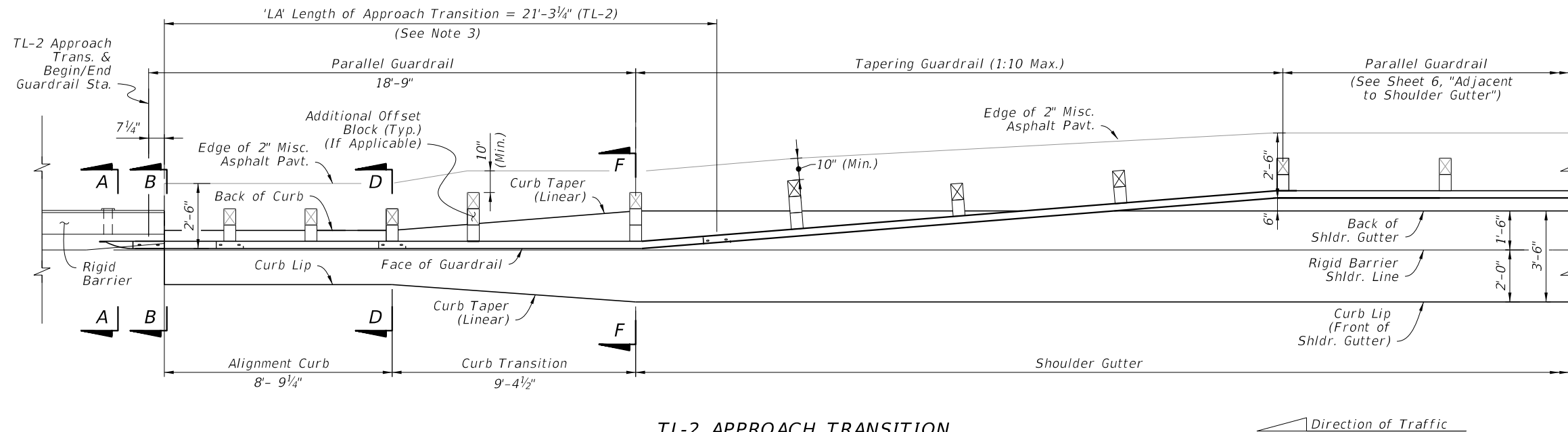
- INSTALLATION:** Construct the TL-2 Approach Transition segment only where indicated in the Plans. For example Layouts showing the Approach Transition's fit among other guardrail segments, see Sheet 19.

For existing bridge connection options, see Indexes 536-002, 521-404, and 521-405.
- SECTION VIEWS & DETAILS:** For cross sections and details, including the barrier mounting hardware, curb transition, adjacent grading, and installation dimensions, see Sheet 17.
- GUARDRAIL TAPER:** The connecting guardrail may require a different lateral offset if shown in the Plans. At the location indicated herein, taper the guardrail to the connecting guardrail offset. If the adjacent guardrail segment has the same offset as the Approach Transition segment, then no taper is required.
- END TRANSITION OF CURB OPTIONS:** The Plan and Elevation views depict an example Curb Transition to Flush Shoulder from Section D-D to E-E, but this transition may require a different shape depending on the End Transition option shown in the Plans (Either a 'Shoulder Gutter Option', 'Raised Curb Option', or 'Flush Shoulder Option'). See Sheet 16 for additional curb options and Sheet 17 for curb shape details.
- RIGID BARRIER END TRANSITION:** Taper the Rigid Barrier toe as shown. See Concrete Barrier, Index 521-001, and Traffic Railing, Indexes 521-422 and 521-428, for details.
- OFFSET:** The required offset difference between the Face of Guardrail and Rigid Barrier Shoulder Line is considered negligible and may not be shown in the guardrail offset callouts in the Plans. A consistent guardrail offset deviation of up to 4 inches outside of the Rigid Barrier Shoulder Line is permitted over the length 'LA'.
- GENERAL GUARDRAIL:** General Guardrail typically includes Panels and Post Spacing as shown on Sheet 2, including parallel and tapered segments. Approach Terminals, Low-Speed Guardrail, or Reduced Post Spacing Guardrail segments may be substituted for the General Guardrail shown herein if indicated in the Plans.

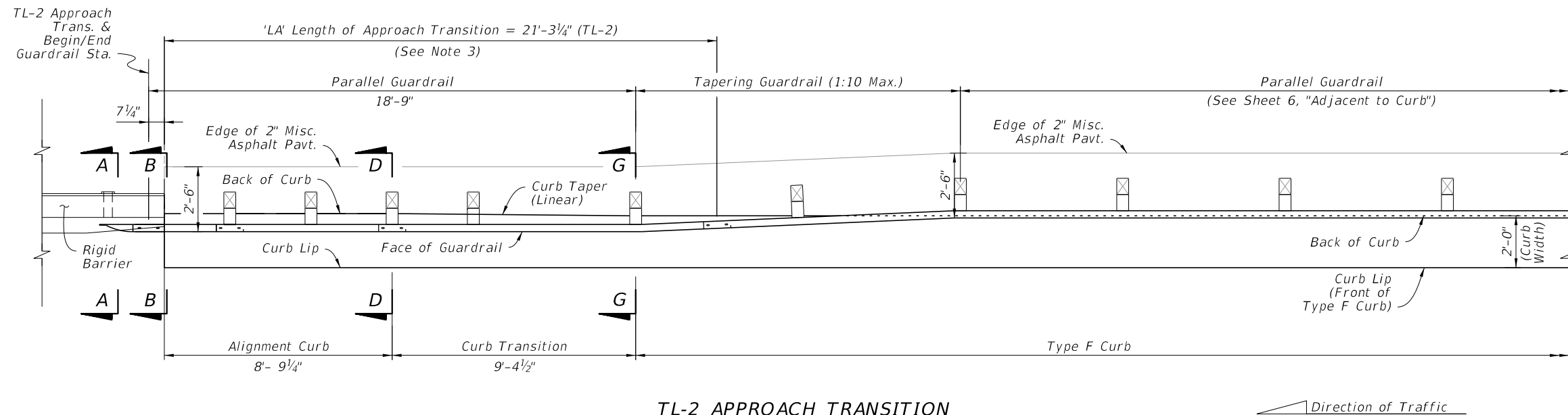
APPROACH TRANSITION CONNECTION TO RIGID BARRIER
LOW-SPEED, TL-2 OPTION (DESIGN SPEED ≤ 45 MPH)

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LAST REVISION	DESCRIPTION:	FY 2027-28 STANDARD PLANS	GUARDRAIL	INDEX	SHEET
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TL-2 APPROACH TRANSITION
WITH 'SHOULDER GUTTER'
CONNECTION - PLAN VIEW



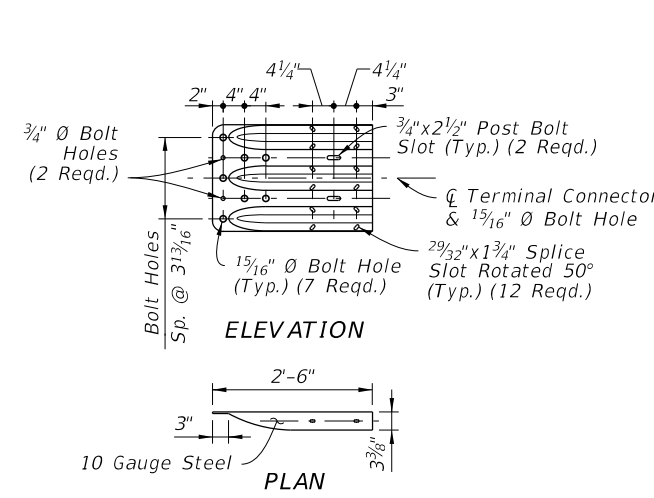
TL-2 APPROACH TRANSITION
WITH 'TYPE F CURB'
CONNECTION - PLAN VIEW

NOTES:

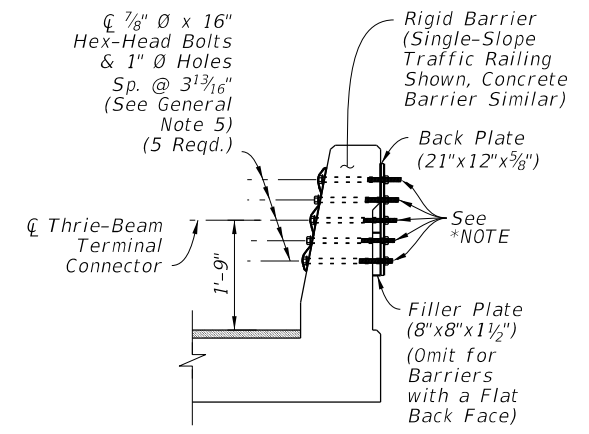
1. GENERAL: See the applicable notes and details on Sheet 15.
2. SECTION VIEWS & DETAILS: For cross sections and details, including the barrier mounting hardware, curb transition, adjacent grading, and installation dimensions, see Sheet 17.
3. ELEVATION VIEW: For post and panel installation details within 'LA', see the elevation view on Sheet 15. The curb details will differ depending on curb option required.

APPROACH TRANSITION CONNECTION TO RIGID BARRIER
LOW-SPEED, TL-2 OPTION (DESIGN SPEED ≤ 45 MPH), CURB CONNECTIONS

LAST REVISION 11/01/25	REVISION	DESCRIPTION:	 FY 2027-28 STANDARD PLANS	GUARDRAIL	INDEX 536-001	SHEET 16 of 25
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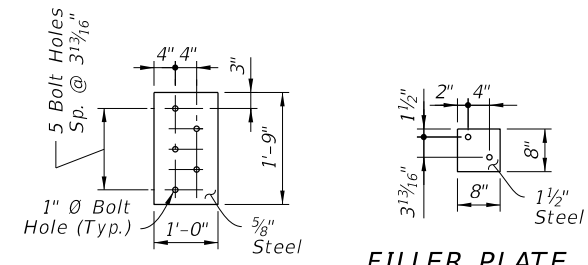


THRIE-BEAM TERMINAL CONNECTOR DETAIL



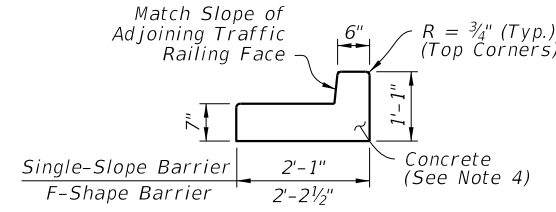
SECTION A-A RIGID BARRIER TERMINAL CONNECTOR MOUNT

*NOTE: For locations within 4'-0" of a sidewalk or shared use path, trim bolts down to within 1/4" of tightend nut. Deform exposed threads. File down sharp edges and burrs.

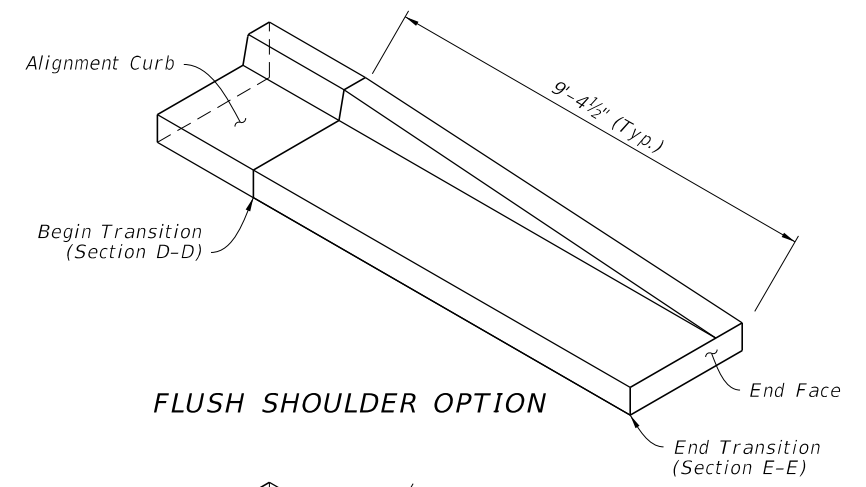


BACK PLATE

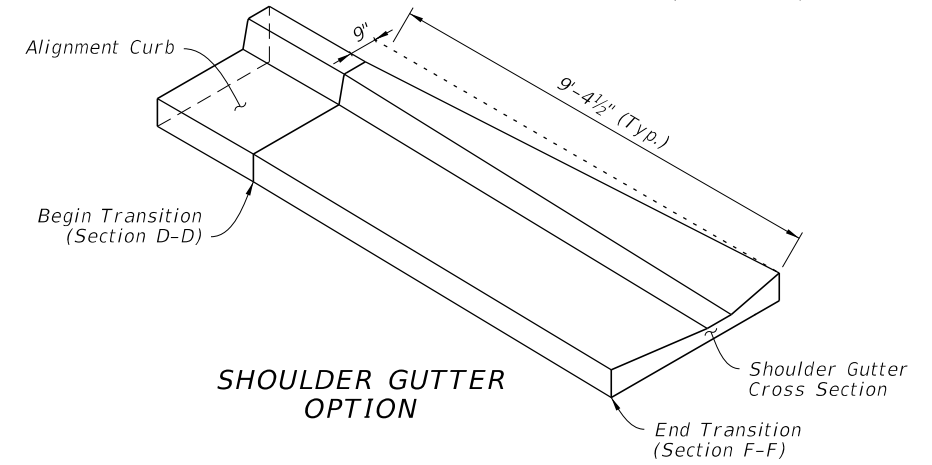
FILLER PLATE



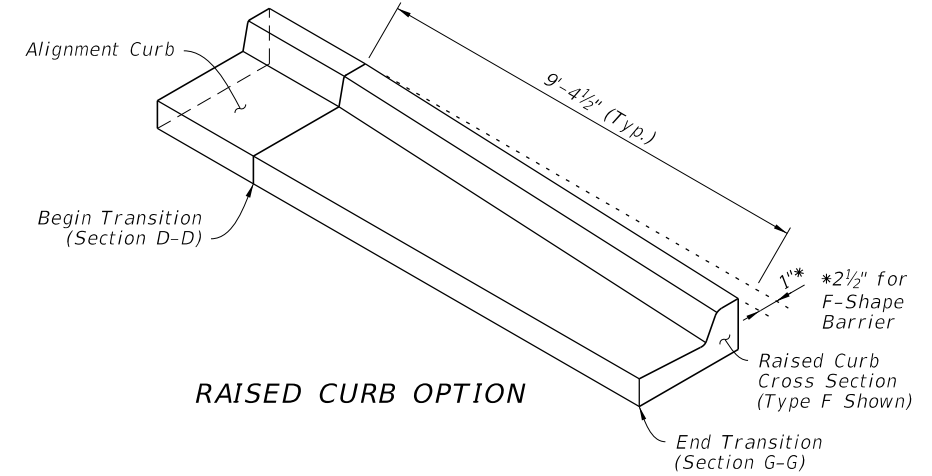
ALIGNMENT CURB SECTION



FLUSH SHOULDER OPTION



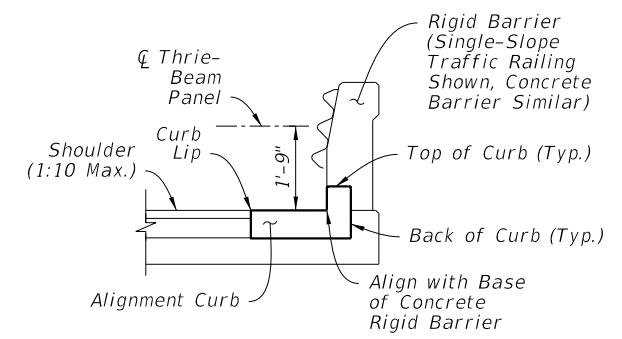
SHOULDER GUTTER OPTION



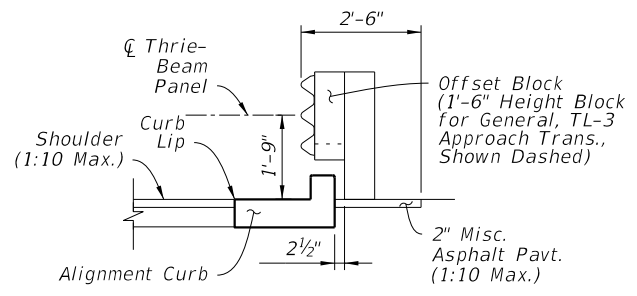
RAISED CURB OPTION

CURB TRANSITION ISOMETRIC VIEWS

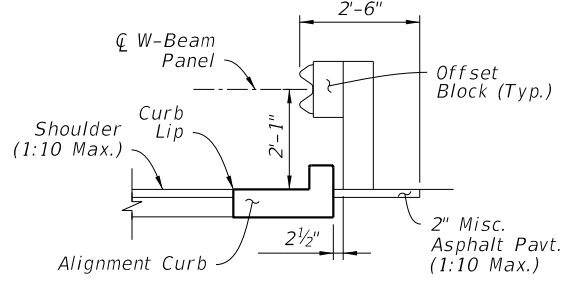
- NOTES:**
1. PLAN AND ELEVATION VIEWS: Work with Sheets 13 thru 16.
 2. END TRANSITION OF CURB OPTION: Install one of the three End Transition types shown per Section E-E as indicated by the Plans.
 3. GRADING BEHIND POSTS: Place Slope Break a Min. 2'-0" behind the post, per Sheet 6.
 4. MATERIALS & CONSTRUCTION: Construct the concrete Aligning Curb and Curb transition in accordance with Specification 520. Use steel Plates and Thrie-Beam Terminal Connectors in accordance with Specification 967.



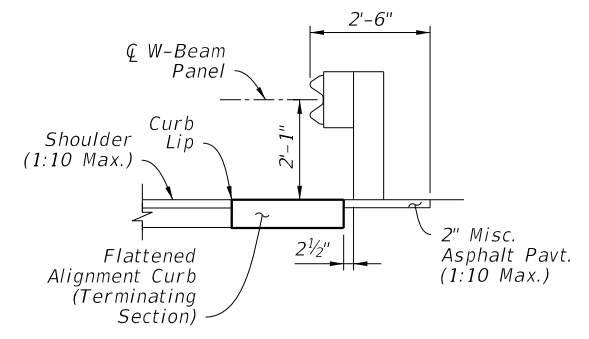
SECTION B-B BEGIN ALIGNMENT CURB (Mate to Rigid Barrier)



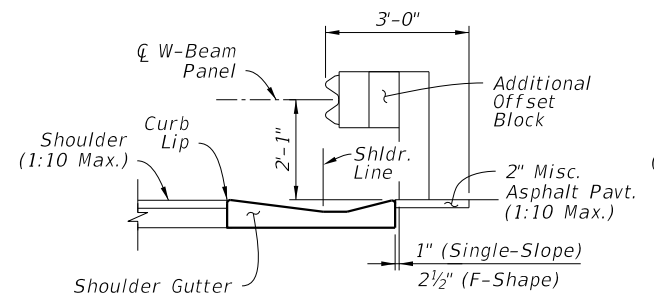
SECTION C-C ALIGNMENT CURB (Intermediate)



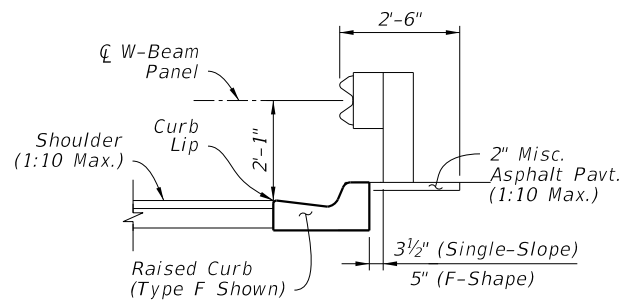
SECTION D-D BEGIN TRANSITION (End Alignment Curb)



SECTION E-E END TRANSITION FLUSH SHOULDER OPTION



SECTION F-F END TRANSITION SHOULDER GUTTER OPTION



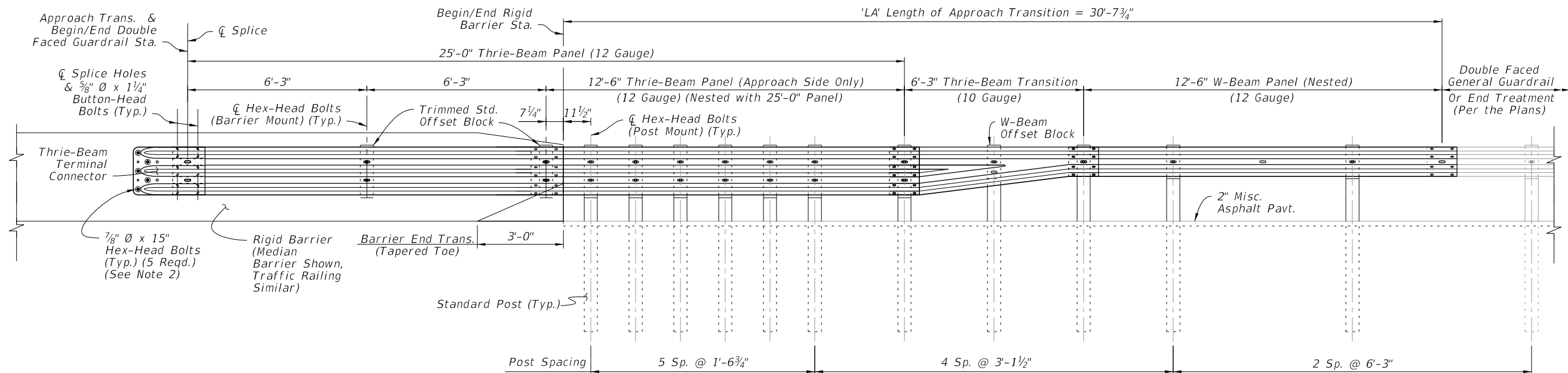
SECTION G-G END TRANSITION RAISED CURB OPTION

CURB TYPICAL SECTIONS

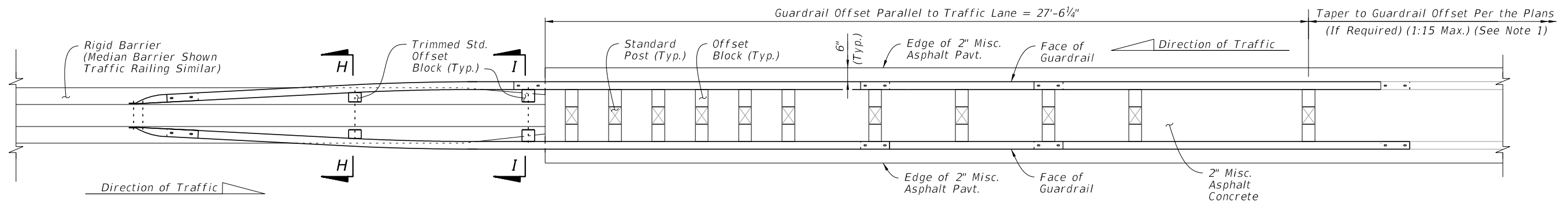
APPROACH TRANSITION CONNECTION - DETAILS

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TL-3 DOUBLE FACED APPROACH TRANSITION
INSTALLED ELEVATION

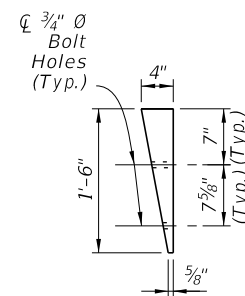


TL-3 DOUBLE FACED APPROACH TRANSITION
INSTALLED PLAN

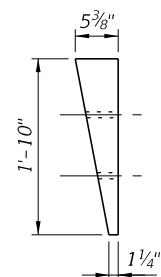
NOTES:

1. **INSTALLATION:** Construct the Approach Transition segment where indicated in the Plans. The required offset of the connecting adjacent guardrail is shown in the Plans.

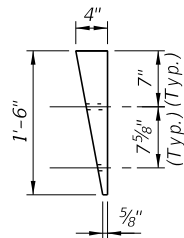
The Layout given on Sheet 20 provides a basic scheme for connections to adjacent guardrail, where a taper to a differing guardrail offset may be required. If the adjacent guardrail has the same offset as the Approach Transition segment, then no taper is required.
2. **THRIE-BEAM TERMINAL CONNECTOR:** See Sheet 17 for Details. The installed bolt's threaded portion is not permitted to extend beyond 3#4" from the face of the nut; trim the threaded portion as needed and galvanize in accordance with Specification 562.
3. **GENERAL GUARDRAIL:** General Guardrail typically includes Panels and Post Spacing as shown on Sheet 2, including parallel and tapered segments. End Treatments or Reduced Post Spacing Guardrail segments may be substituted for the General Guardrail shown herein if indicated in the Plans.



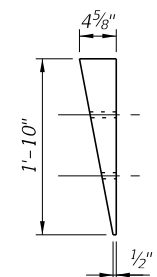
TYPE H-H
SECTION



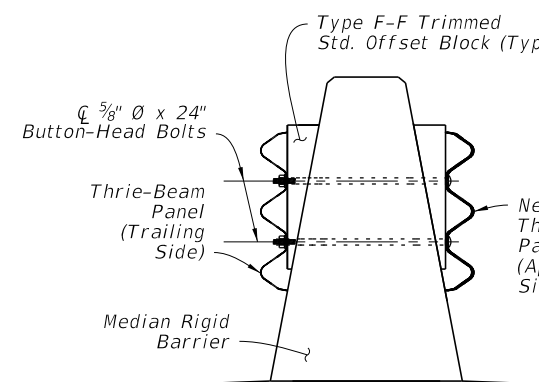
TYPE I-I
SECTION



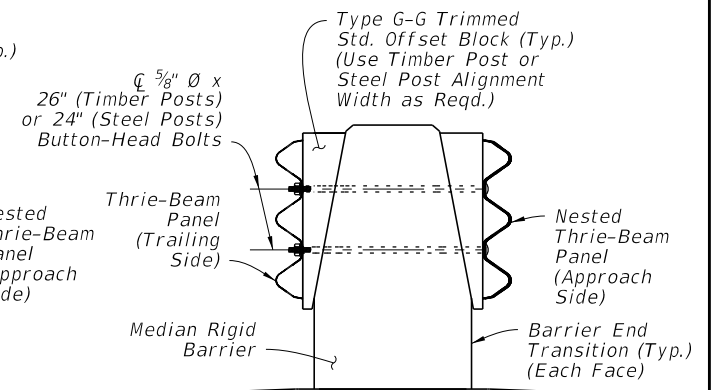
TYPE H-H
SECTION



TYPE I-I
SECTION



SECTION H-H



SECTION I-I

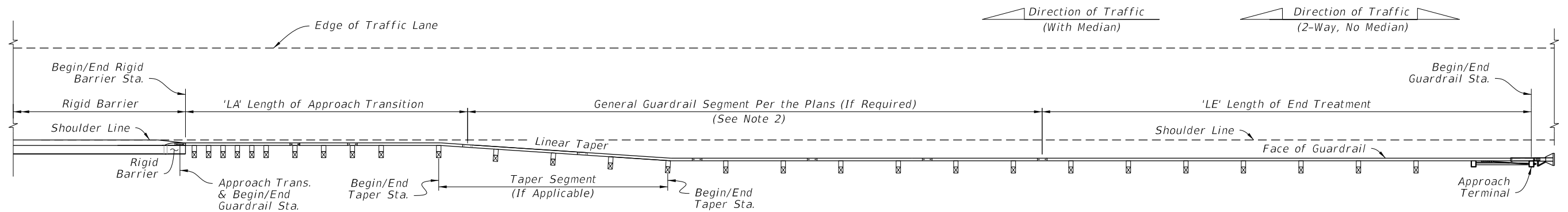
TRIMMED STD. OFFSET BLOCKS
TIMBER POST ALIGNMENT WIDTH

TRIMMED STD. OFFSET BLOCKS
STEEL POST ALIGNMENT WIDTH

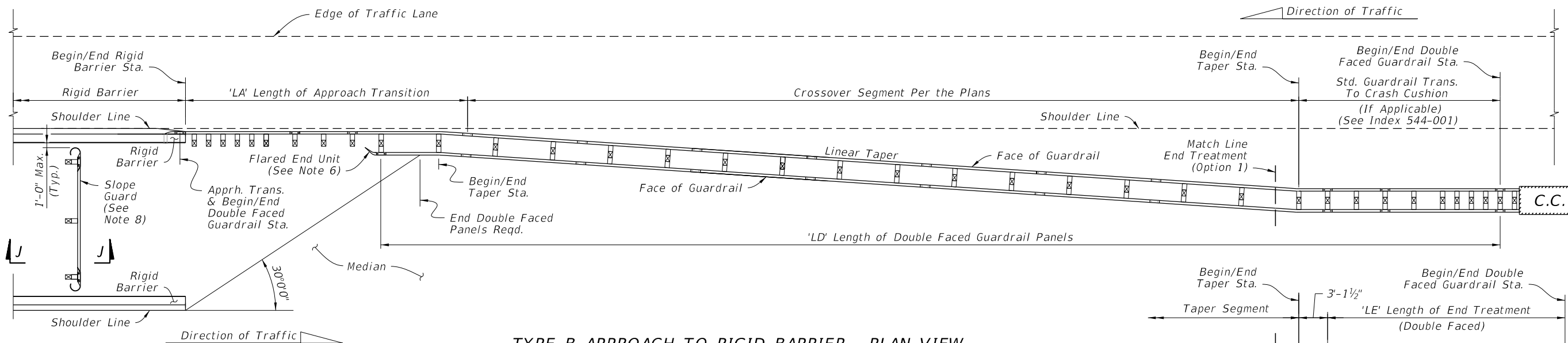
APPROACH TRANSITION CONNECTION TO RIGID
BARRIER WITH DOUBLE FACED GUARDRAIL

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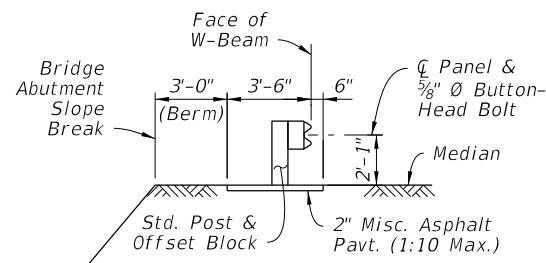
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TYPE A APPROACH TO RIGID BARRIER - PLAN VIEW
MEDIAN OR OUTSIDE SHOULDERS
 (Mirror Horiz. and/or Vert. for Opposite
 Direction and/or Side of Road)



TYPE B APPROACH TO RIGID BARRIER - PLAN VIEW
CROSSOVER GUARDRAIL FOR MEDIAN SHOULDERS ONLY
DUAL BRIDGE APPROACH CONFIGURATION
 (Mirror Horiz. and Vert. for Opposite Direction)



SECTION J-J
BRIDGE ABUTMENT
SLOPE GUARD
(Between Bridges)

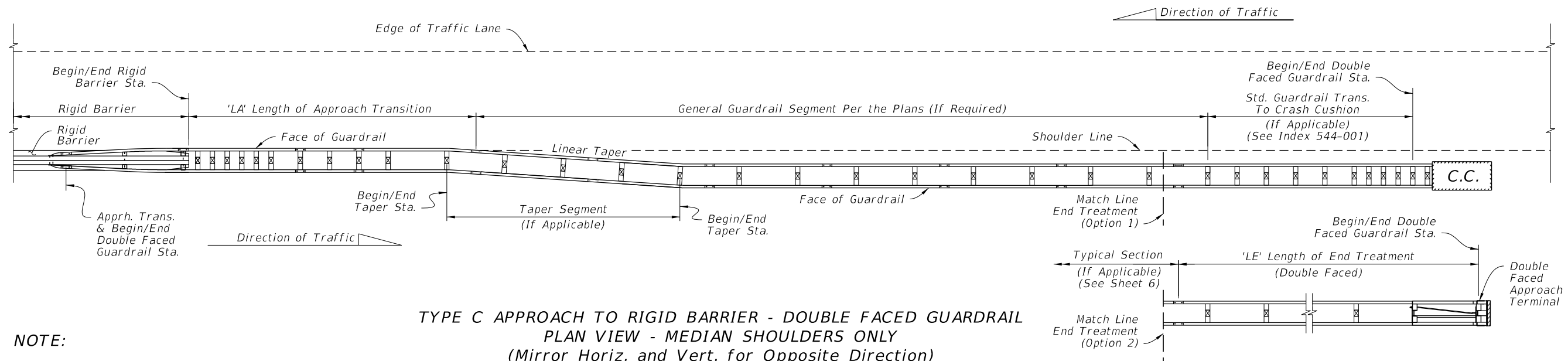
NOTES:

- INSTALLATION:** The Plan Views shown are schematic only, showing example geometry for connecting guardrail segments including taper locations and Double Faced Guardrail requirements as applicable. Work this Sheet with the Plans, where stationing and offsets for Begin/End Guardrail, Begin/End Rigid Barrier, and Begin/End Taper are specified. For existing bridge layouts, see Index 536-002, 521-404, and 521-405.
- GENERAL GUARDRAIL SEGMENT:** Construct this segment if shown in the Plans. For the case where this segment's offset differs from the Approach Transition offset, linearly taper the guardrail between the Begin/End Taper Stations and offsets as specified in the Plans.
 For the shortest length case of a direct connection between the End Treatment and the Approach Transition, this segment may be omitted as shown in the Plans.
- LENGTH OF APPROACH TRANSITION 'LA':** Install the applicable Approach Transition as shown per Sheets 13 thru 16, where called for in the Plans.
- LENGTH OF END TREATMENT 'LE':** Install the Approach Terminal End Treatment as shown per Sheet 7 or 8, where called for in the Plans. Use the corresponding APL drawings for construction details.
- CROSSOVER GUARDRAIL (FOR TYPE B APPROACH):** Install the Crossover Segment tapering linearly from the Begin Taper Sta. and offset to the End Taper Sta. and offset as specified in the Plans.

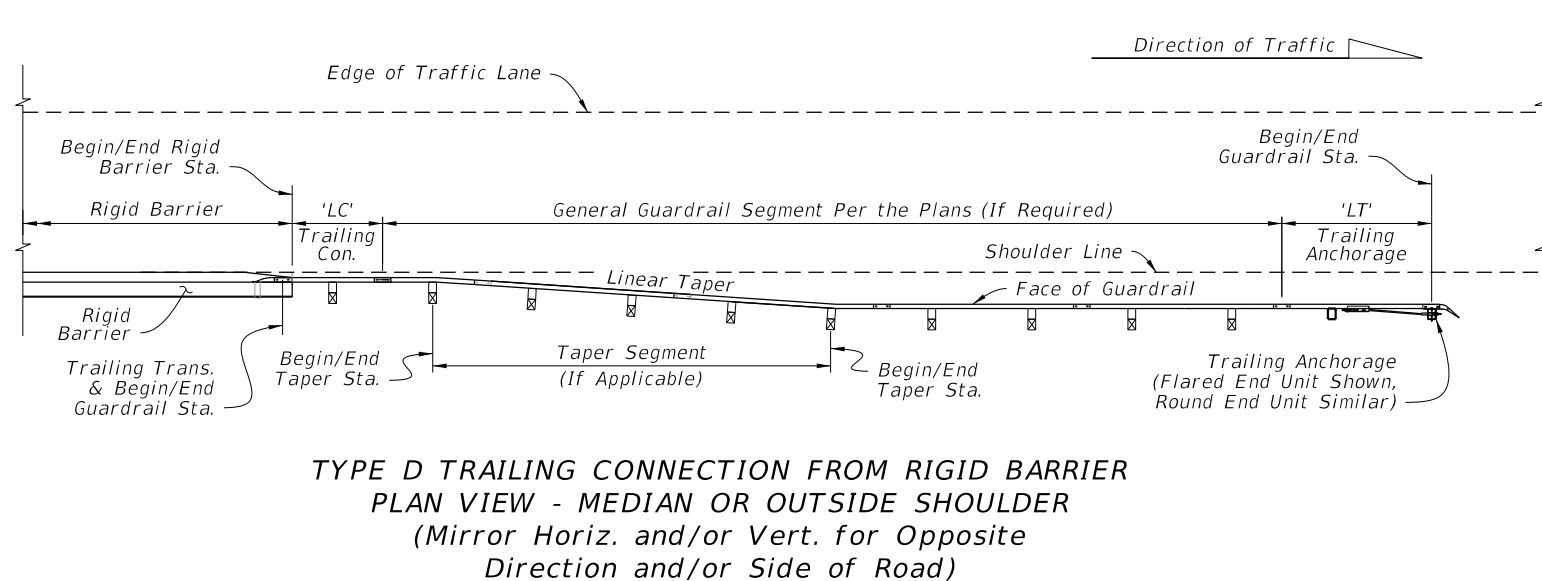
- LENGTH OF DOUBLE FACED GUARDRAIL PANELS, 'LD' (FOR TYPE B APPROACH):** Terminate the Double Faced Guardrail panels as shown (based upon the 30° line measured from the hazard on the opposite side of the median). Extend the panel segment longer than the dimension 'LD' as needed for the Panel's end Bolt Slot to align with a post Bolt hole.
 Install a Flared End Unit where shown, as defined on Sheet 9.
- END TREATMENT OPTIONS (FOR TYPE B & C APPROACH):** For Double Faced applications, use either a Double Faced Approach Terminal Assembly per Sheet 8 or a Crash Cushion per Index 544-001. For either Option, meet the 1:10 adjacent grading requirements for Approach Terminals as shown on Sheet 8.
- SLOPE GUARD:** Where indicated in the Plans, install a Guardrail segment between bridge approaches and offset from the bridge abutment's Slope Break as shown. Install posts at the end bolt slots of the panel system. Use post spacing of either 3'-1½" or 6'-3", as needed to correctly fit system between barriers. The system may also be lengthened to fit by installing two Rounded End Units as defined on Sheet 9.

LAYOUT TO RIGID BARRIER - APPROACH ENDS

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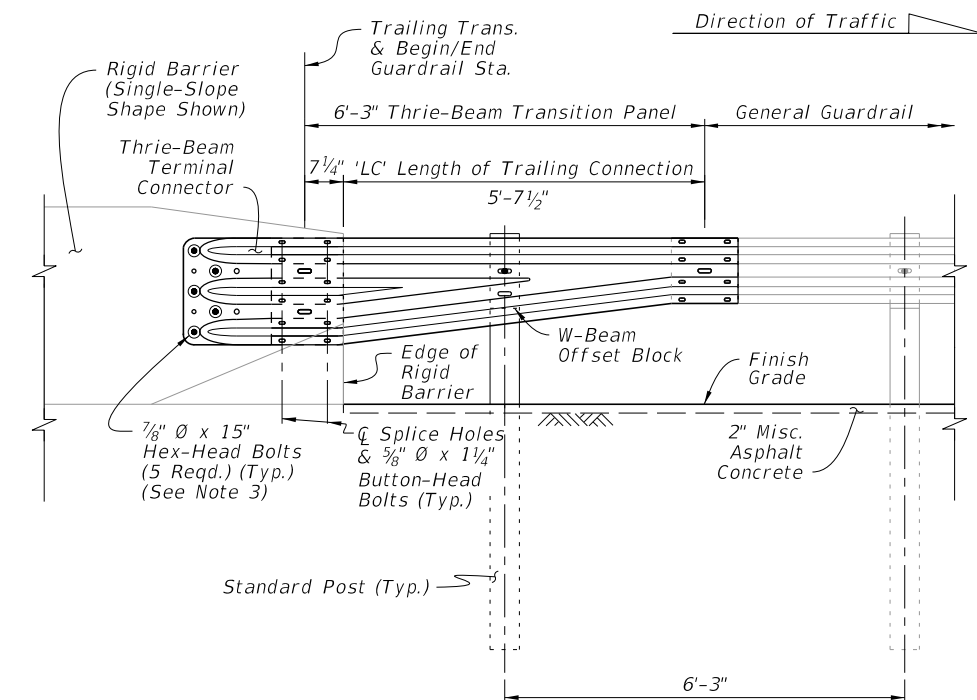


**LAYOUT TO RIGID BARRIER -
 APPROACH ENDS WITH
 DOUBLE FACED GUARDRAIL**



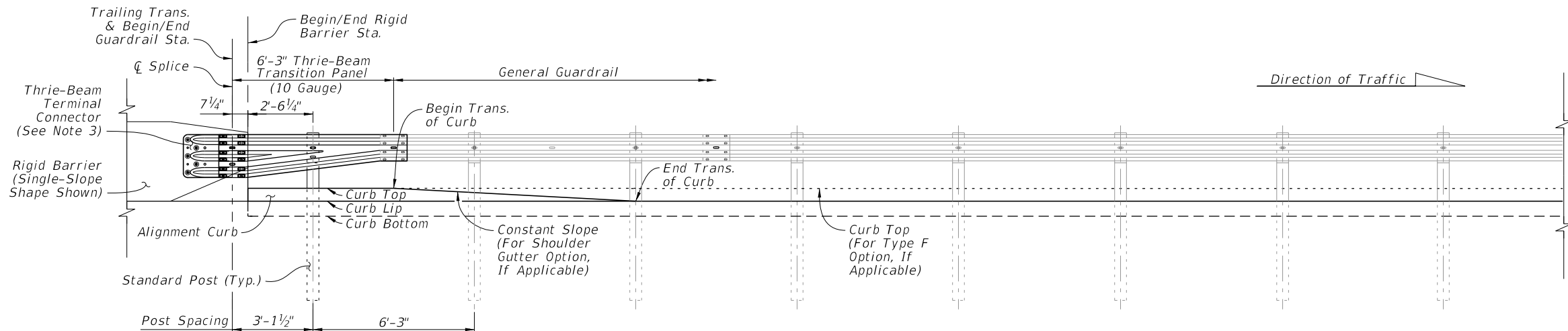
NOTES:

1. See the applicable Notes on Sheet 19. For connections with curb options, see sheet 21.
2. LENGTH OF TRAILING ANCHORAGE, 'LT': Install the Trailing Anchorage as shown on Sheet 9, where called for in the Plans.
3. THRIE-BEAM TERMINAL CONNECTOR: Install connector and bolts as shown on Sheet 17.
4. RIGID BARRIER SINGLE SLOPE END FACE: See Concrete Barrier Wall, Index 521-001, and Traffic Railing, Indexes 521-422 and 521-423, for details.

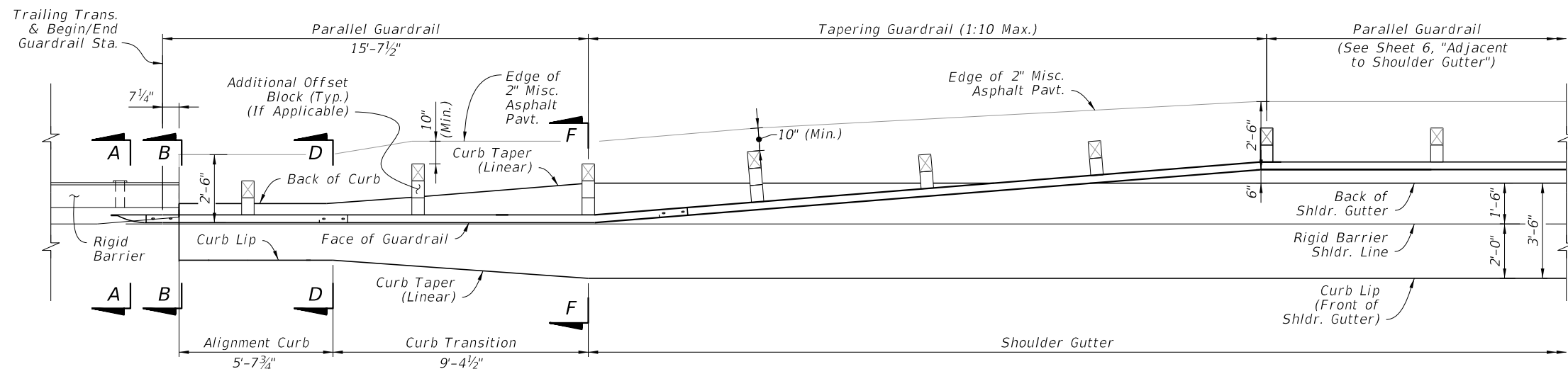


LAYOUT TO RIGID BARRIER - TRAILING ENDS

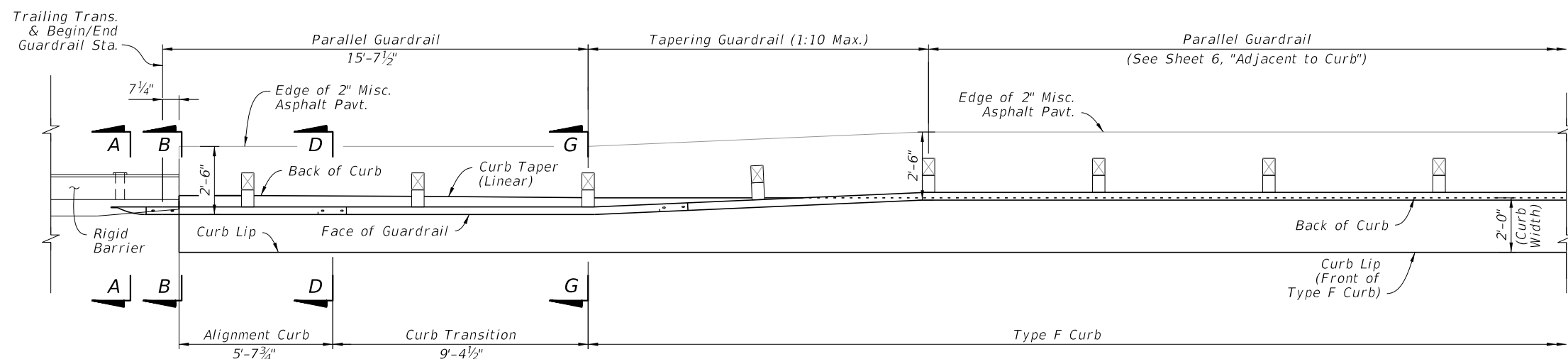
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INSTALLED ELEVATION



TRAILING END TRANSITION WITH
'SHOULDER GUTTER' CONNECTION - PLAN VIEW



TRAILING END TRANSITION WITH
'TYPE F CURB' CONNECTION - PLAN VIEW

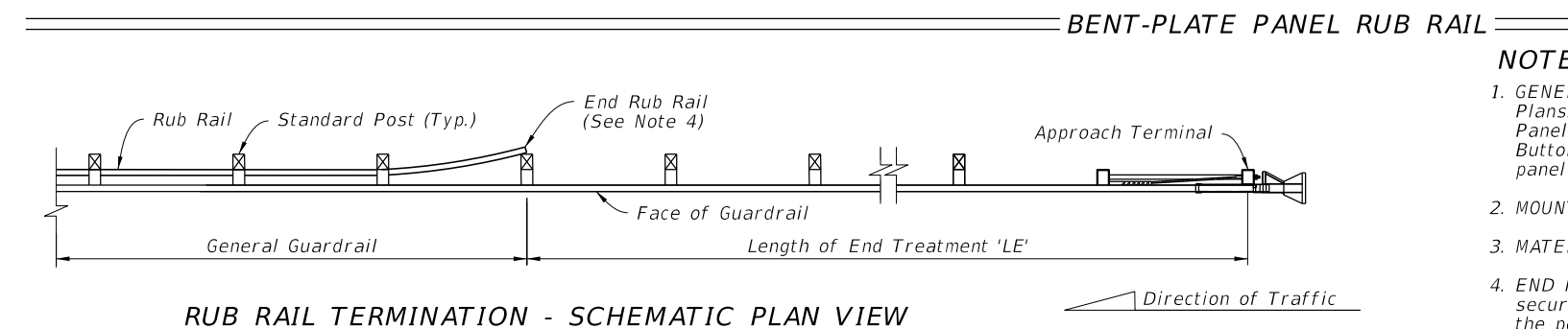
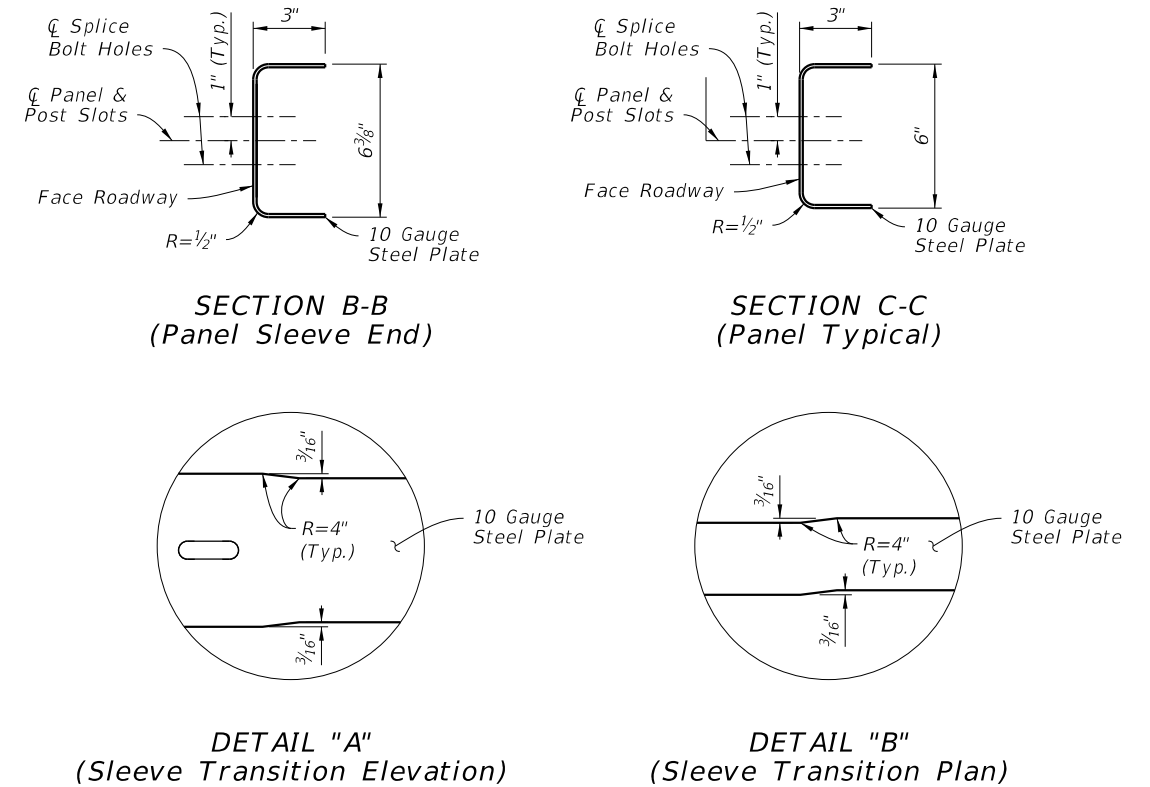
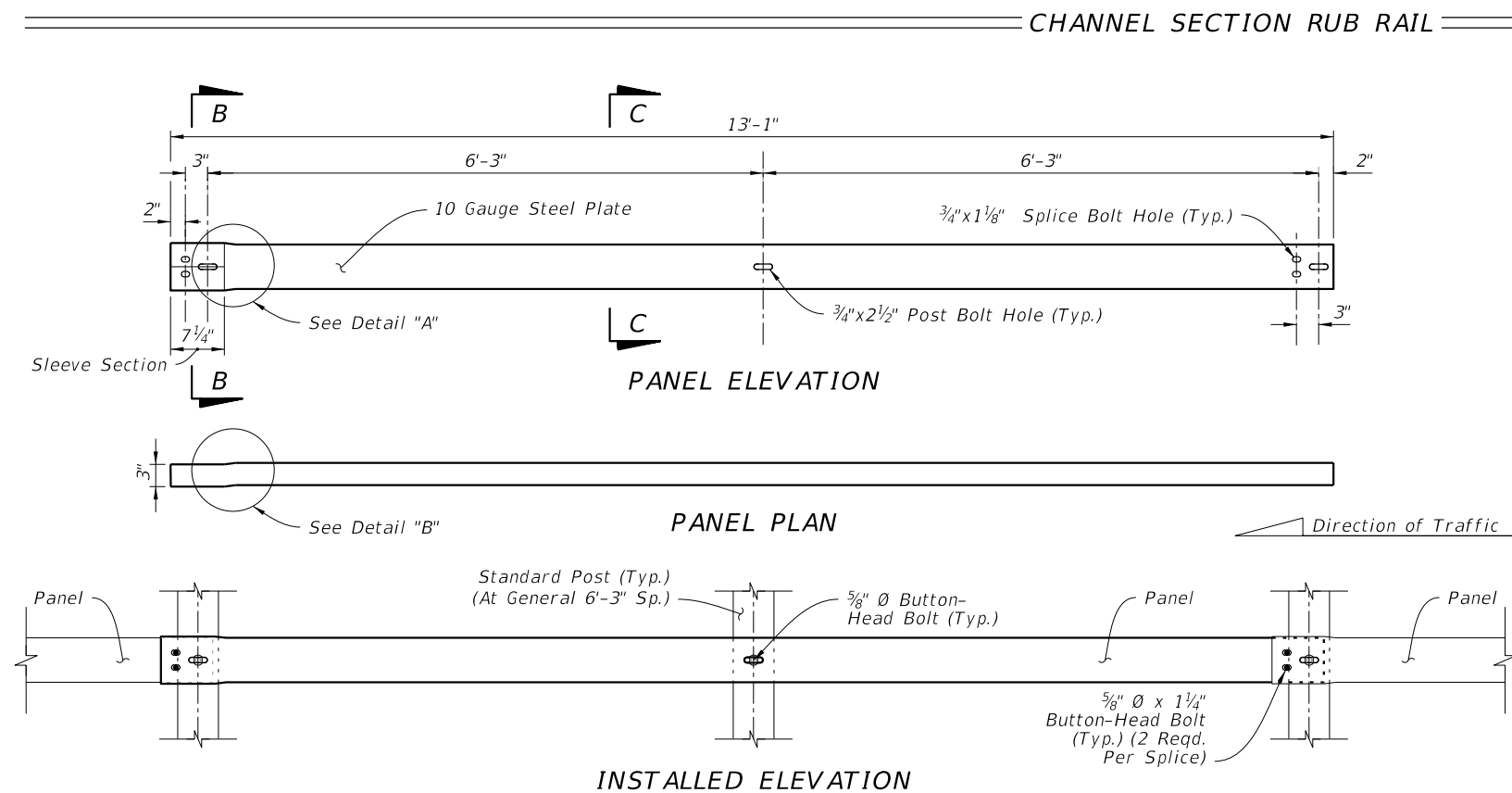
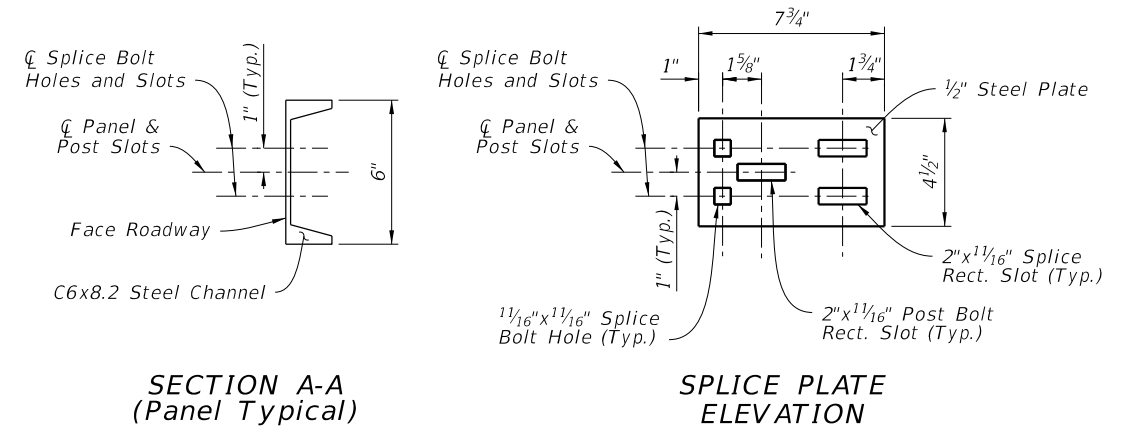
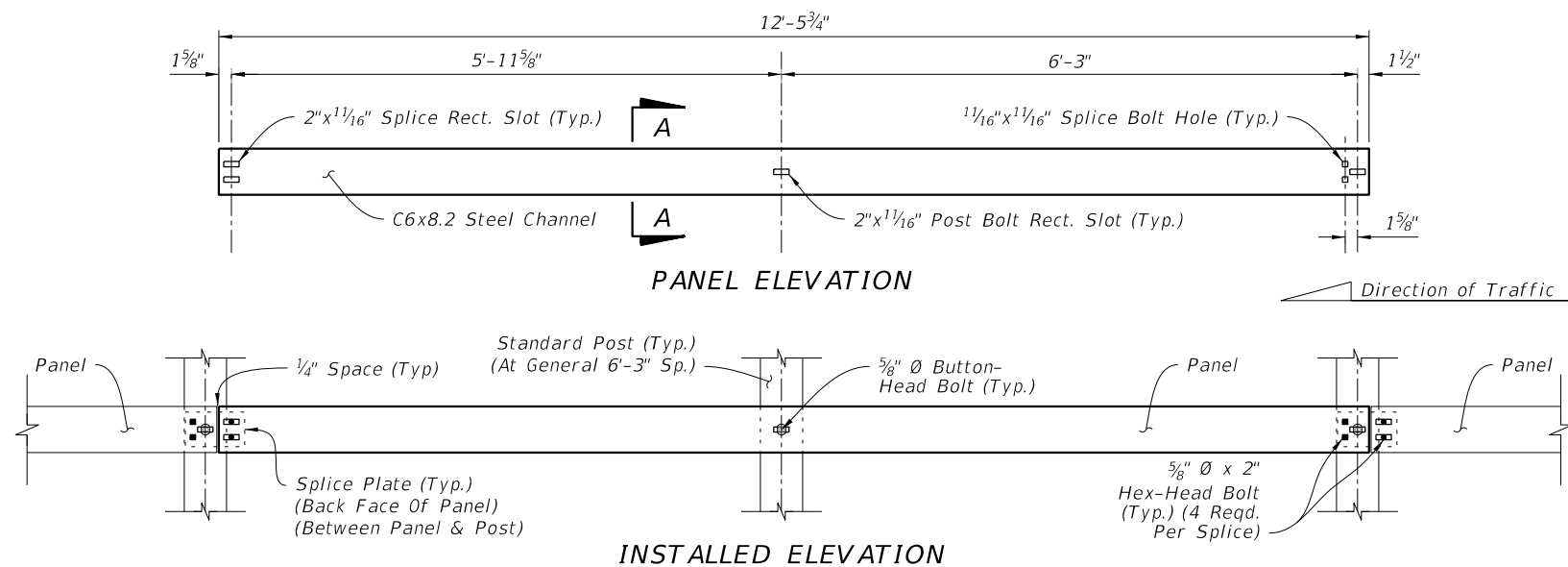
NOTES:

1. GENERAL: See the applicable notes and details on Sheet 15.
2. SECTION VIEWS AND DETAILS: For cross sections and details, including the barrier mounting hardware, curb transition, adjacent grading, and installation dimensions, see Sheet 17.
3. RIGID BARRIER CONNECTION: For additional connection details, see Sheet 20.

**TRAILING END TRANSITION
CONNECTION TO RIGID BARRIER
- CURB CONNECTIONS**

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NOTES:

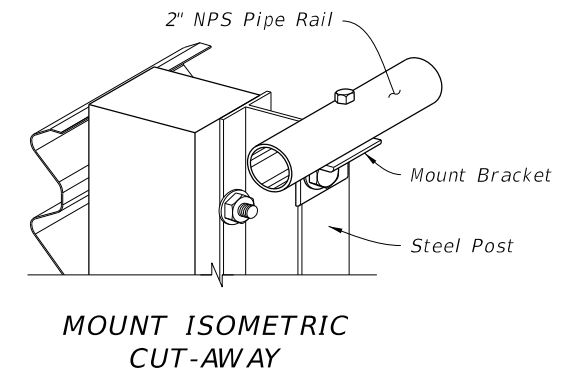
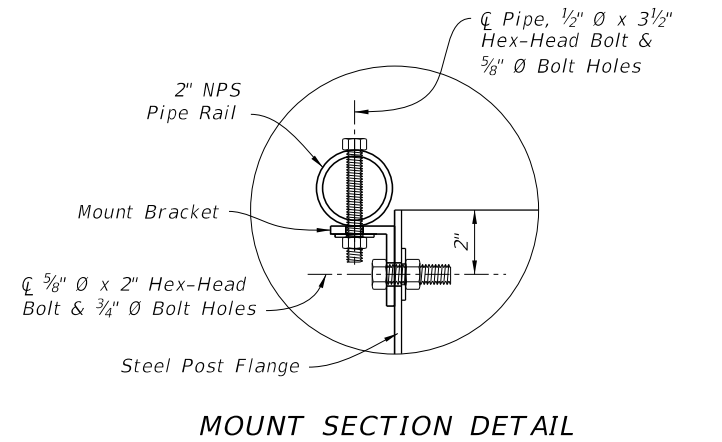
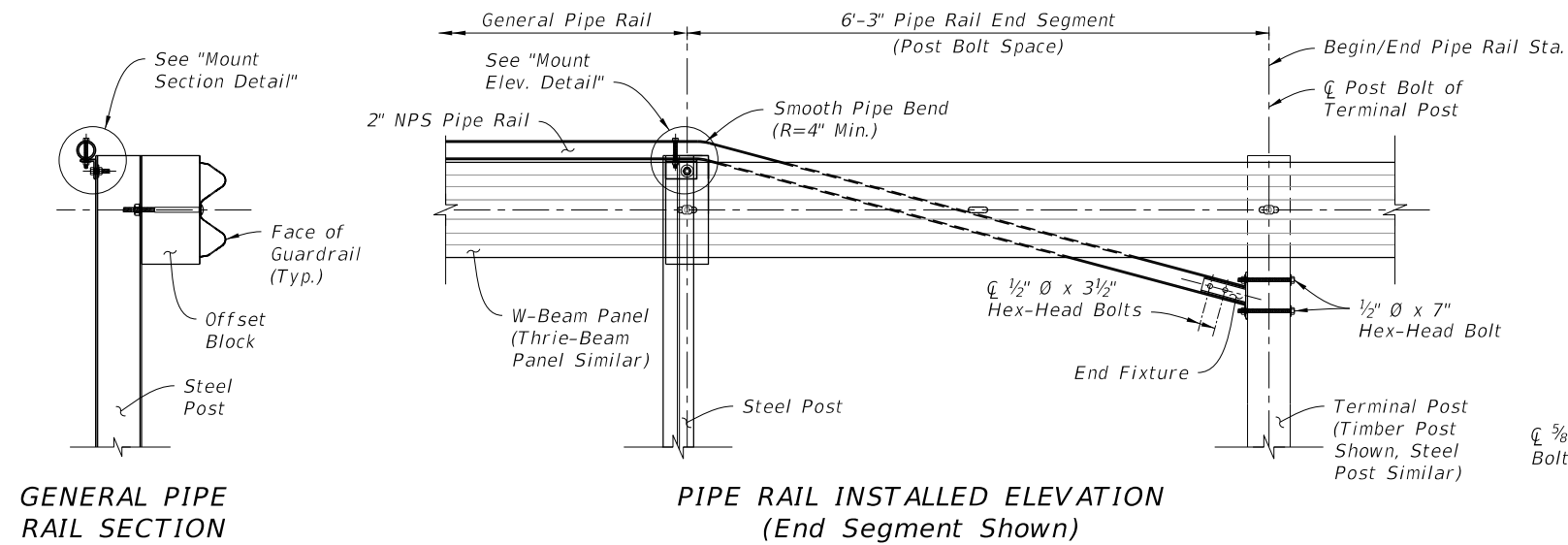
1. GENERAL: Install Rub Rail where called for in the Plans. Position as shown on Sheet 6 unless otherwise shown in the Plans. Install the backs of Rub Rail panels flush against Standard Posts. Either of the Channel Section or Bent-Plate Panel Rub Rail options may be used (consistent type per project). Where Double Sided Rub Rail is called for, thread the Button-Head Bolt through the Post Bolt Hole(s) and the panels on either side, and tighten the nut against the face of the panel farthest from adjacent traffic lanes. Trim the bolt's threaded portion in accordance with Note 4 on Sheet 5.
2. MOUNTING HEIGHT: Mount to the Standard Post's Rub Rail Bolt Hole as defined on Sheet 5.
3. MATERIALS: Use steel components in accordance with Specification 967.
4. END RUB RAIL: For Single Sided Rub Rail, terminate the run of Rub Rail by bending the panel behind the post and securing in place (as shown). For Double Sided Rub Rail, terminate the runs of Rub Rail on their respective front face of the post and secure with the typical Button-Head bolt.

RUB RAIL DETAILS

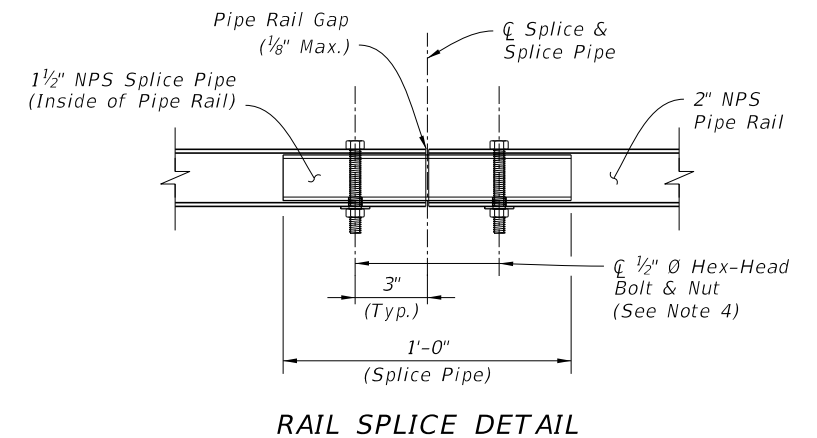
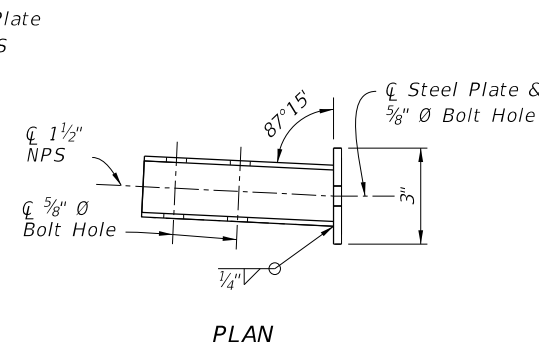
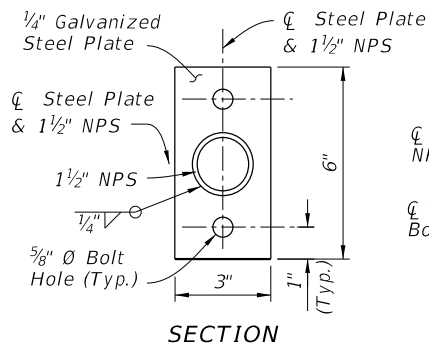
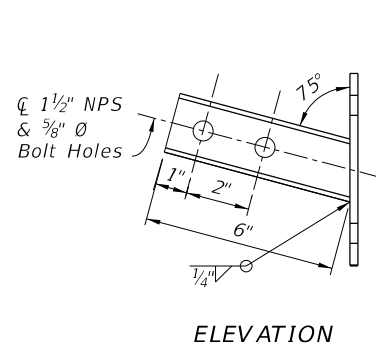
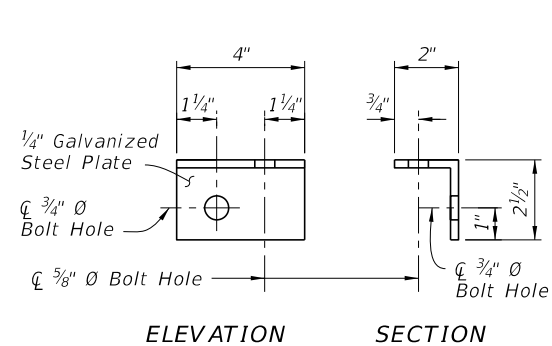
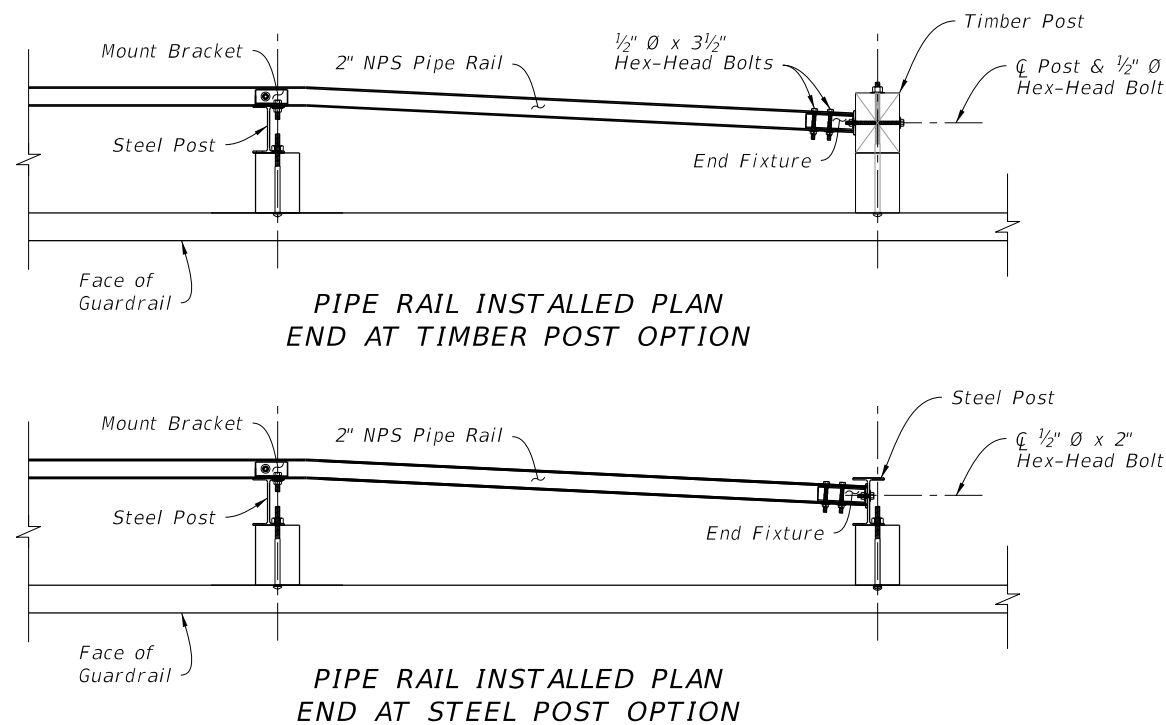
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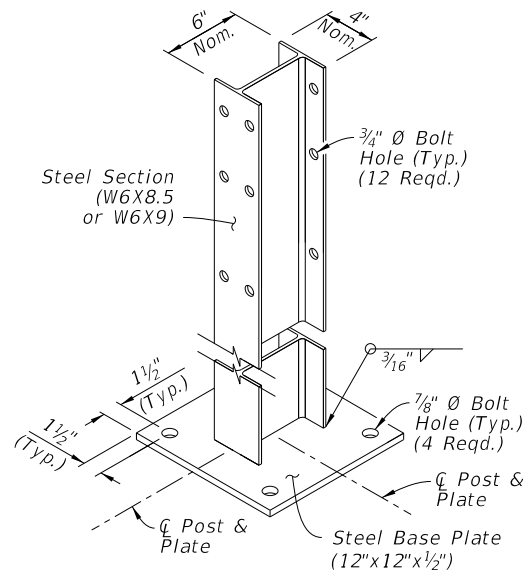


- NOTES:**
1. **GENERAL:** Install Pipe Rail as indicated per the Plans and Sheet 1, General Note 7. See Sheet 6 for general placement orientation.
 2. **PIPE RAIL END SEGMENTS:** Place End Segments on both ends of General Pipe Rail runs, with End Fixtures mounted to Terminal Posts located outside of Approach Terminal Assembly ('LE'), Trailing Anchorage Assembly ('LT'), and Approach Transition ('LA') segments.
 3. **MATERIALS:** Use steel brackets, fixtures, and pipes in accordance with Specification 967.
 4. **RAIL SPLICES:** Install Rail Splices to join pieces of 2" NPS Pipe Rail into a continuous system. Place splices as needed, at a spacing of 18'-0" or greater. Orient the head of bolt on the top of the pipe.

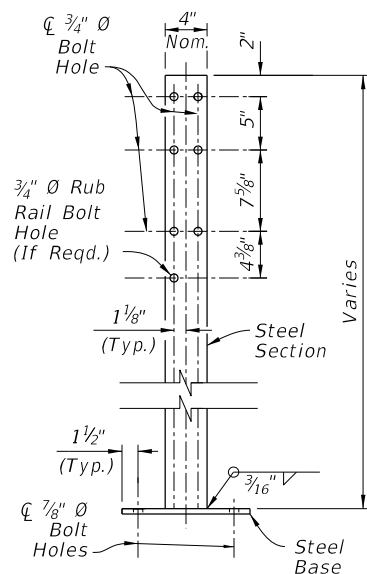


PEDESTRIAN SAFETY TREATMENT - PIPE RAIL

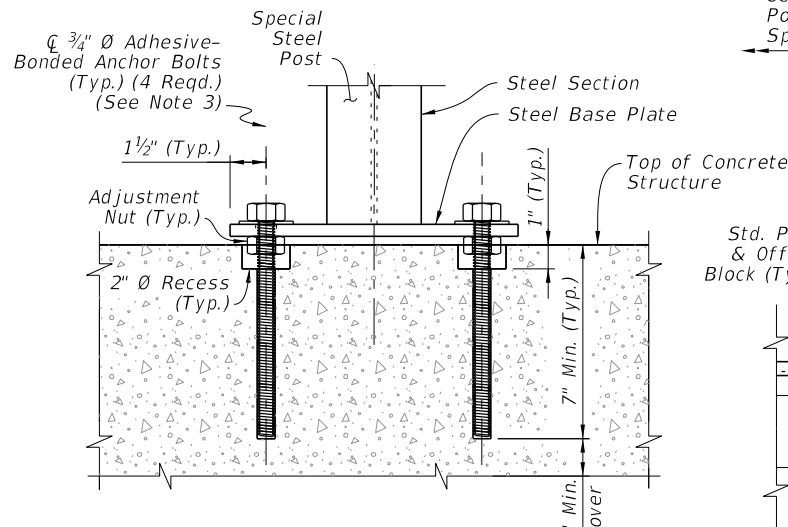
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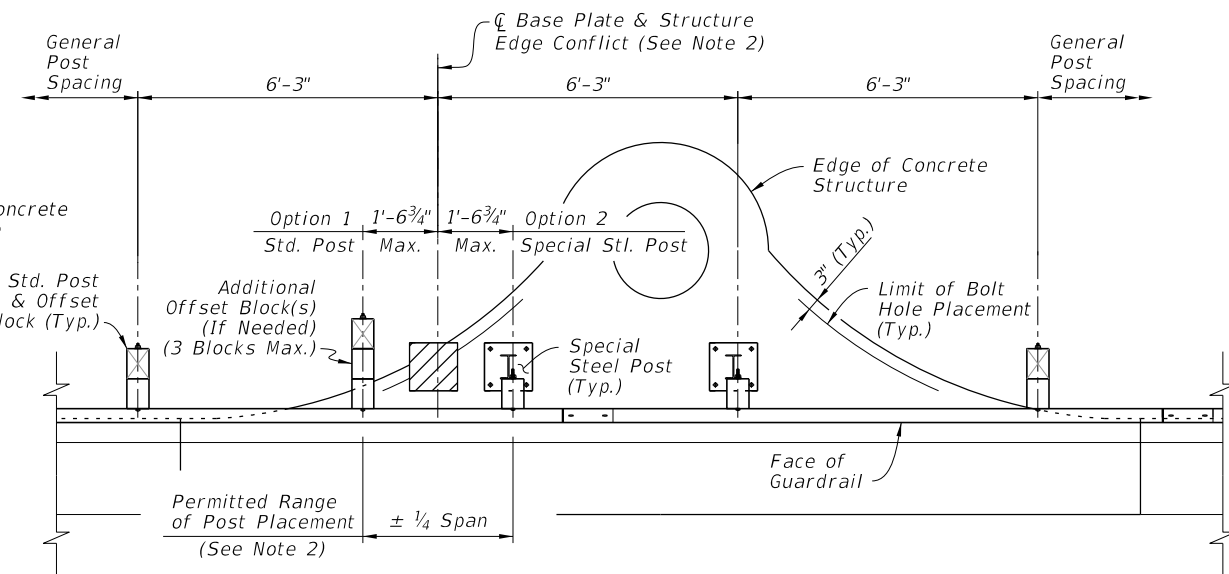
ISOMETRIC
VIEW



ELEVATION



INSTALLED SECTION
(Option 2, Special Post)



INSTALLED PLAN EXAMPLE
(Curb Inlet Top Type 2 Shown)

SPECIAL STEEL POST

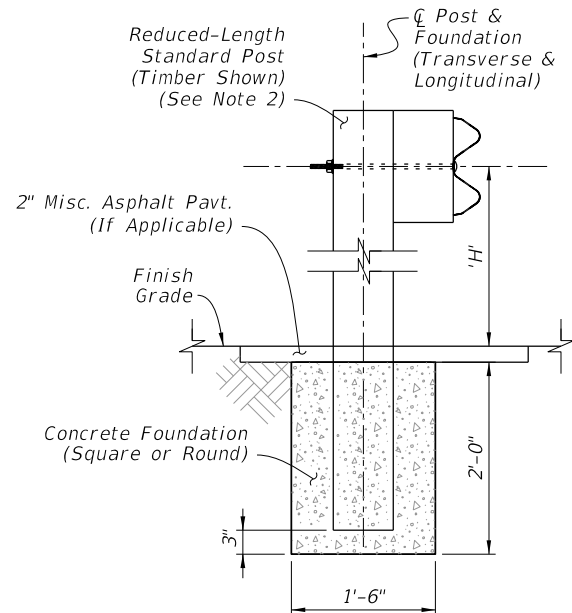
STRUCTURE MOUNTING

NOTES:

1. **INSTALLATION:** When the construction of Guardrail at the required post spacing results in post(s) located atop culverts, inlets, pier footings, or similar concrete structures, a Special Steel Post may be substituted for a Standard Post. Install where shown in the Plans and/or as-needed, in accordance with Specification 536.
2. **EDGE CONFLICT:** When a required post location causes an Edge Conflict with the structure, where the Steel Base Plate is not located entirely on the structure at least 3" from the Edge of Concrete, the longitudinal post location may be altered by up to 1'-6 3/4" (Quarter Span) from the original required spacing location to prevent the Edge Conflict. With the post location adjusted, use a Std. Post mounted in soil (Option 1) or a Special Steel Post with its Base Plate mounted entirely on the structure (Option 2). Maintain the original required spacing locations upstream and downstream of the structure.

3. **BASE PLATE MOUNT:** Install Special Steel Posts as shown using steel Adhesive-Bonded Anchor Bolts in accordance with Specification 536. Use 3/4" Hex-Head Bolts for structures less than 9" deep as defined in the Specification.
4. **PANEL MOUNT TO ADJUSTED POST:** Punch additional 3/4"x2 1/2" Post Bolt Slot(s) in the W-Beam or Thrie-Beam Panel only where needed to mount the panel to a post in an adjusted location. Meet the Panel Post Bolt Slots requirements of Specification 536.
5. **MATERIALS:** Use steel base plates in accordance with Specification 536.

SPECIAL STEEL POST FOR CONCRETE STRUCTURE MOUNT

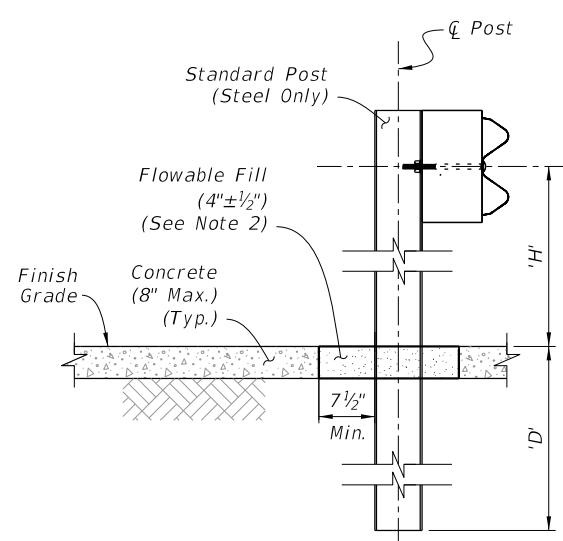


INSTALLED SECTION

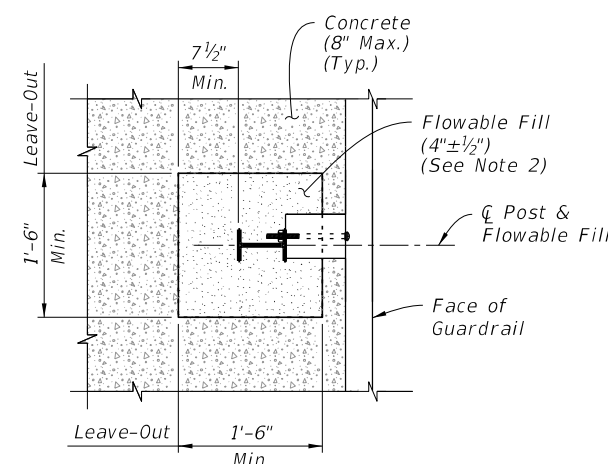
ENCASED POST FOR SHALLOW MOUNT

NOTES:

1. **INSTALLATION:** When the construction of Guardrail at the required post spacing results in post(s) conflicting with underground utilities or other underground obstructions, an Encased Post may be used where a 2'-0" depth will avoid the conflict. Install where shown in the Plans and/or as-needed, in accordance with Specification 536.
2. **REDUCED-LENGTH STANDARD POST:** Use a Standard Post with reduced Length such that the Panel Height 'H' is maintained while the post bottom terminates 3" from the bottom of the Concrete Foundation. Typically, the Post Length 'L' is 4'-7" for W-Beam Guardrail.
3. **FOUNDATION:** Use non-reinforced Class NS Concrete material in accordance with Specification 347. After casting the concrete, ensure the surrounding soil material is completely backfilled and tamped to provide full passive resistance.
4. **LIMIT:** Encased Posts are not permitted for more than 3 consecutive posts.



INSTALLED SECTION



INSTALLED PLAN

NOTES:

1. **INSTALLATION:** When the construction of Guardrail at the required post spacing results in post(s) placed within a concrete surface (typically a sidewalk), use a Frangible Leave-Out around the post base as shown. Install where shown in the Plans and/or as-needed, in accordance with Specification 536.

Use Standard steel posts. Timber posts are not permitted for frangible leave-outs.

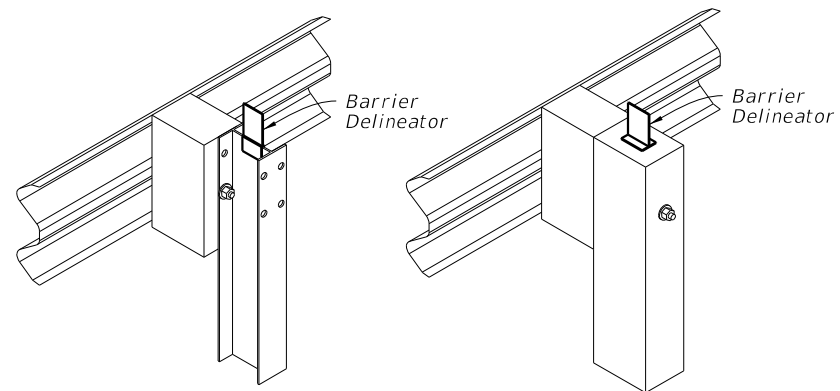
For the required 1'-6" x 1'-6" Leave-Out, smoothly cut the existing concrete surface or form-up the square shape when an application has new surrounding concrete.

Ensure Flowable Fill surface is smooth and even with the adjacent concrete surface.
2. **MATERIALS:** Use Non-Excavatable Flowable Fill in accordance with Specification 121, not to exceed 150 psi.

FRANGIBLE LEAVE-OUT FOR CONCRETE SURFACE MOUNT

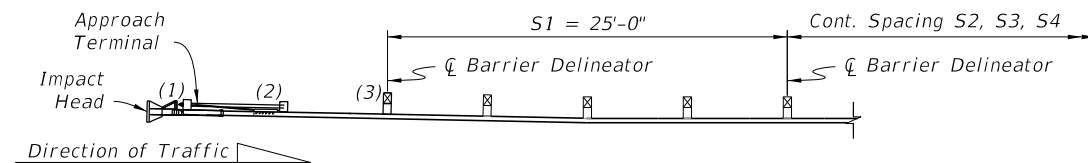
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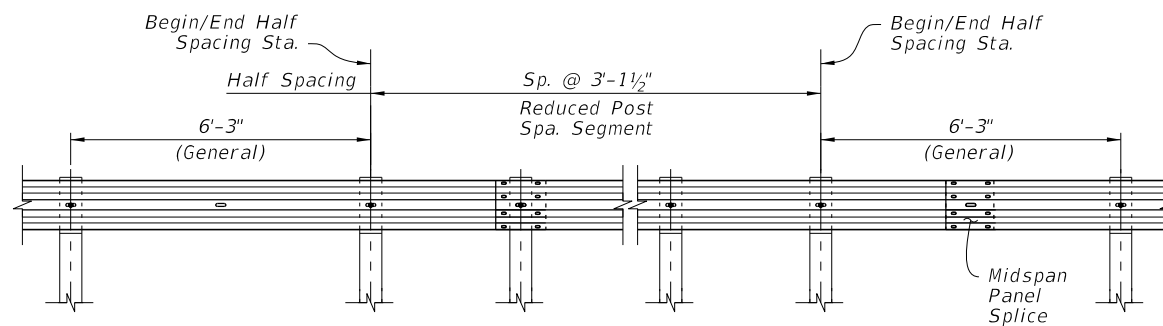
STEEL POSTS TIMBER POSTS

MOUNT LOCATION - ISOMETRIC VIEWS

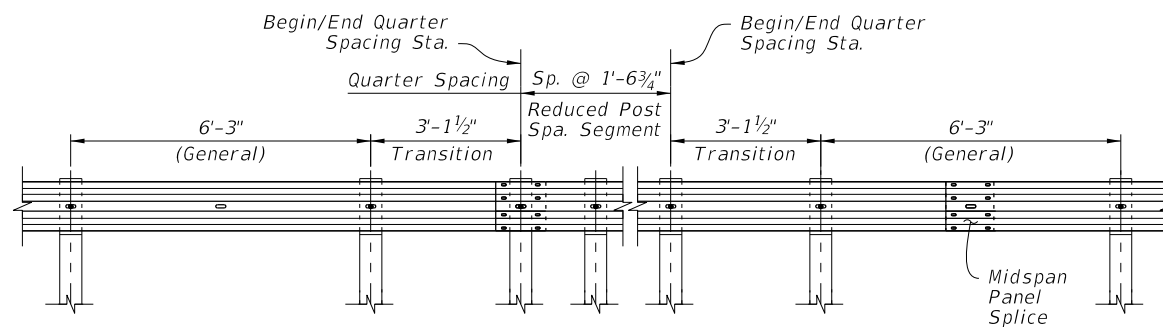


MOUNT LOCATION - PLAN VIEW

BARRIER DELINEATORS

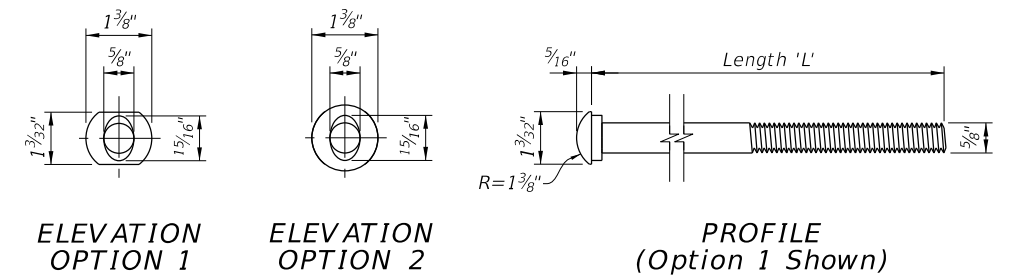


DETAIL 'S' - HALF SPACING ELEVATION
(AS REQD. PER THE PLANS)

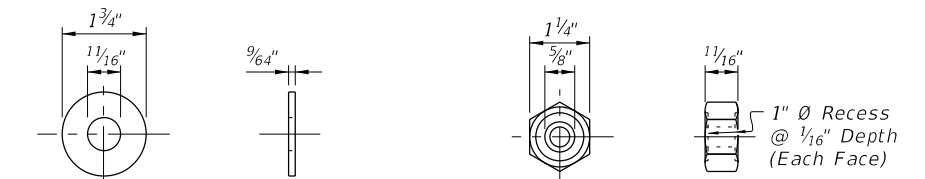


DETAIL 'S' - QUARTER SPACING ELEVATION
(AS REQD. PER THE PLANS)

REDUCED POST SPACING FOR HAZARDS

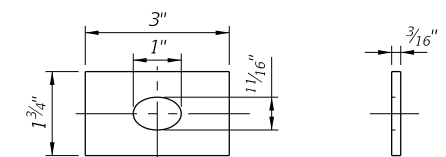


BUTTON-HEAD BOLT



WASHER

HEX-NUT



RECTANGULAR WASHER

(For CRT & Terminal
Connectors Where Shown -
Install Over Panel Face)

5/8" BUTTON-HEAD BOLT



FY 2027-28
STANDARD PLANS

GUARDRAIL

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