

Texas Department of Transportation  
IH 635 Managed Lanes Project  
Technical Provisions

**Attachment 15-1A**  
Aesthetics and Landscaping





Texas Department of Transportation

IH635 MANAGED LANES PROJECT

# BOOK 2A: ATTACHMENT 15-1A

SEPTEMBER 2007



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## Aesthetic Guideline Overview

The Urban design guidelines for the IH-35E and IH-635 corridors establish the criteria manual for preliminary engineering of the highway corridor aesthetics. The design criteria provided are the primary standard guidelines necessary to produce the intended aesthetic form, function and appearance for the IH-635 Managed Lanes Project. These guidelines are to be incorporated into final engineering designs.

The intent of Attachment 15-1A, is to provide a roadway corridor with continuity and an aesthetic theme that is comprehensive and thorough. It is not the objective of this Attachment to dictate the engineering solution, but rather provide an aesthetic solution to an engineered facility. The Developer shall apply the aesthetic concepts of this Attachment to the elements of the project based on the Developer's unique engineered solution. Flexibility will be given to accommodate process, procedures, innovative techniques, and specific design elements.

In addition to the design intent of the Urban design guidelines, the Developer shall provide a plan for community involvement. Community involvement shall be provided to allow the local community, cities, and land owners an opportunity to enhance the corridor. The Developer shall provide a plan that accomplishes the following:

1. Program for community involvement.
2. Plans for landscaping, hard scape, and any other aesthetics to be accomplished by the Developer, but paid for by the community. All landscaping, hard scape, or any additional aesthetic treatments within the ROW shall be approved by TDOT.
3. Developer shall provide an overall master plan that is to include landscape elevation plan, and details as needed to describe the enhancement agreed upon by the Developer and communities for approval.

## Design Theme

Upon review of many themes for the IH-35E corridor and IH-635 corridor the following can be used to summarize the aesthetic goals for the corridors:

1. Fast paced, directional, and should be modern, clean, and provide a sense of scale.
2. Terrain, elevation changes 180+ feet from highest point to lowest point within corridor. This represents a rate.
3. 'Is Fast paced highway surrounded by mixed use land
4. Modern - color, energy, inviting
5. Incorporated both modern theme and native landscaping.

With in this attachment, are items that indicate the intended visual appearance of the corridor; however, there are elements that have not yet been established or need further establishment. This establishment shall be developed by the Developer and provided during all phases of the Developer's process. In addition to Attachment 15-1A, the Reference Information Document (RID) has been compiled to provide the Developer with sketches, images, and ideas of what the design intent of the corridors shall look like when completed. Also within the RID, there are photographs that indicate construction details that should be avoided or improved upon.

It is the understanding of TDOT that this corridor has the ability to be developed in various stages called Interim-design and Ultimate design. This attachment B-6 does not distinguish between Interim-design and Ultimate design. All constructed materials shall provide the final appearance regardless of phase of construction. Any 3rd party agreements shall be constructed upon the discretion and agreement of the Developer and local community, but shall remain within the limits of the design intent provided herein.

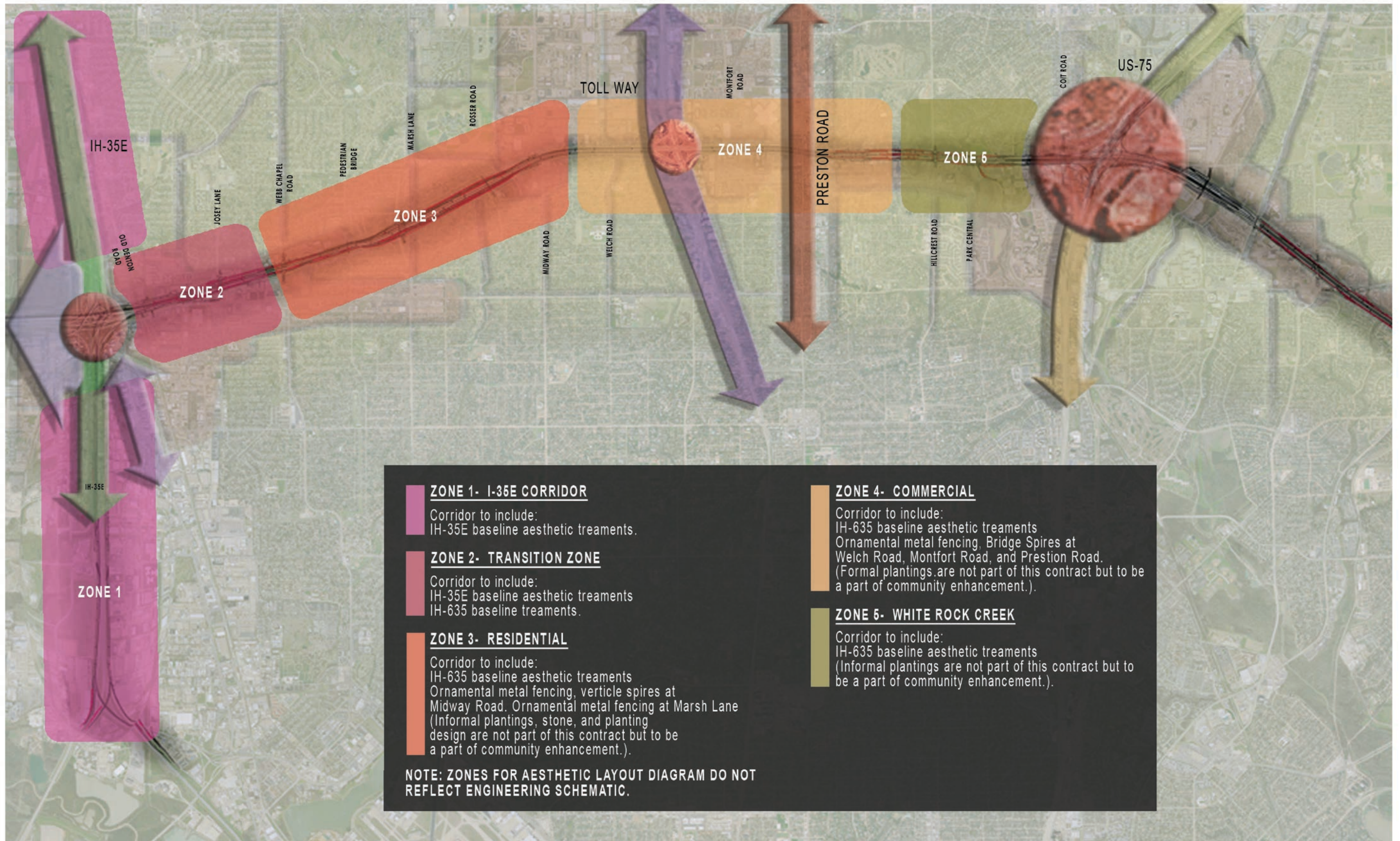


IH635 MANAGED LANES PROJECT



DATE: 12/07/2007	SCALE: AS NOTED	SHEET CONTENTS: CORRIDOR OVERVIEW	ATTACHMENT: 15-1A	SHEET NUMBER: <b>0.01</b>
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**ZONE 1- I-35E CORRIDOR**  
 Corridor to include:  
 IH-35E baseline aesthetic treatments.

**ZONE 2- TRANSITION ZONE**  
 Corridor to include:  
 IH-35E baseline aesthetic treatments  
 IH-635 baseline treatments.

**ZONE 3- RESIDENTIAL**  
 Corridor to include:  
 IH-635 baseline aesthetic treatments  
 Ornamental metal fencing, verticle spires at Midway Road. Ornamental metal fencing at Marsh Lane (Informal plantings, stone, and planting design are not part of this contract but to be a part of community enhancement.)

**ZONE 4- COMMERCIAL**  
 Corridor to include:  
 IH-635 baseline aesthetic treatments  
 Ornamental metal fencing, Bridge Spires at Welch Road, Montfort Road, and Prestion Road. (Formal plantings are not part of this contract but to be a part of community enhancement.)

**ZONE 5- WHITE ROCK CREEK**  
 Corridor to include:  
 IH-635 baseline aesthetic treatments  
 (Informal plantings are not part of this contract but to be a part of community enhancement.)

**NOTE: ZONES FOR AESTHETIC LAYOUT DIAGRAM DO NOT REFLECT ENGINEERING SCHEMATIC.**

DATE: 09/12/2007	SCALE: N.T.S.	SHEET CONTENTS: AESTHETIC LAYOUT DIAGRAM	ATTACHMENT: 15-1A	SHEET NUMBER: 0.02
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## IH-35E COLOR PALLET

### STANDARD COLOR PALLET



Primary Color:  
Ermine SW1023



Secondary Color:  
Grid Gray SW1026



Accent Color:  
Florentino Green KM395-M

## IH-635 COLOR PALLET

### HARDSCAPE COLOR PALLET



Primary Color:  
Pavestone Charcoal



Secondary Color:  
Pavestone Pewter

### IH 635/SUBSURFACE MANAGED LANES COLOR PALLET



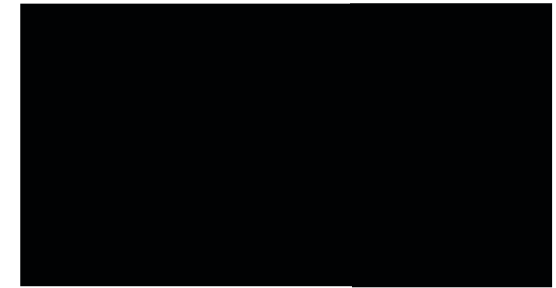
Primary Color:  
Ermine SW1023



Secondary Color:  
Grid Gray SW1026



Secondary Color:  
Countrified Blue SW1509



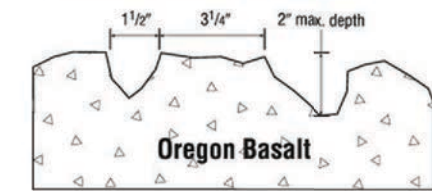
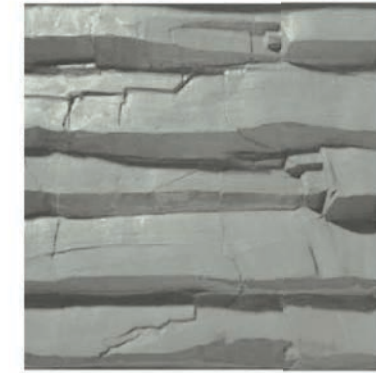
Tunnel Ceiling and Fence Color:  
Black of Night SW 6993



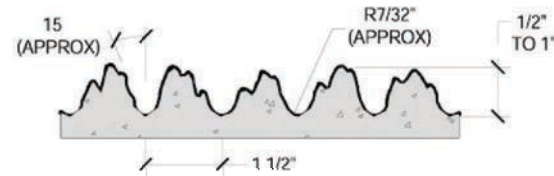
# IH-635 AND IH-35E STANDARD CONCRETE FINISHES



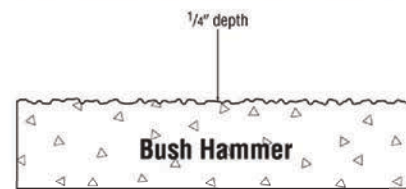
Smooth Finish:  
No Texture



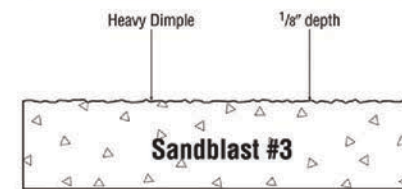
Oregon Basalt Finish:  
Scott System #175  
Oregon Basalt



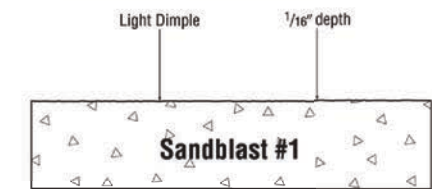
1" Fractured Fin:  
Greenstreak #373  
Fractured Fin



1/4" Bush Hammer Finish:  
Scott System #162A  
Bush Hammer

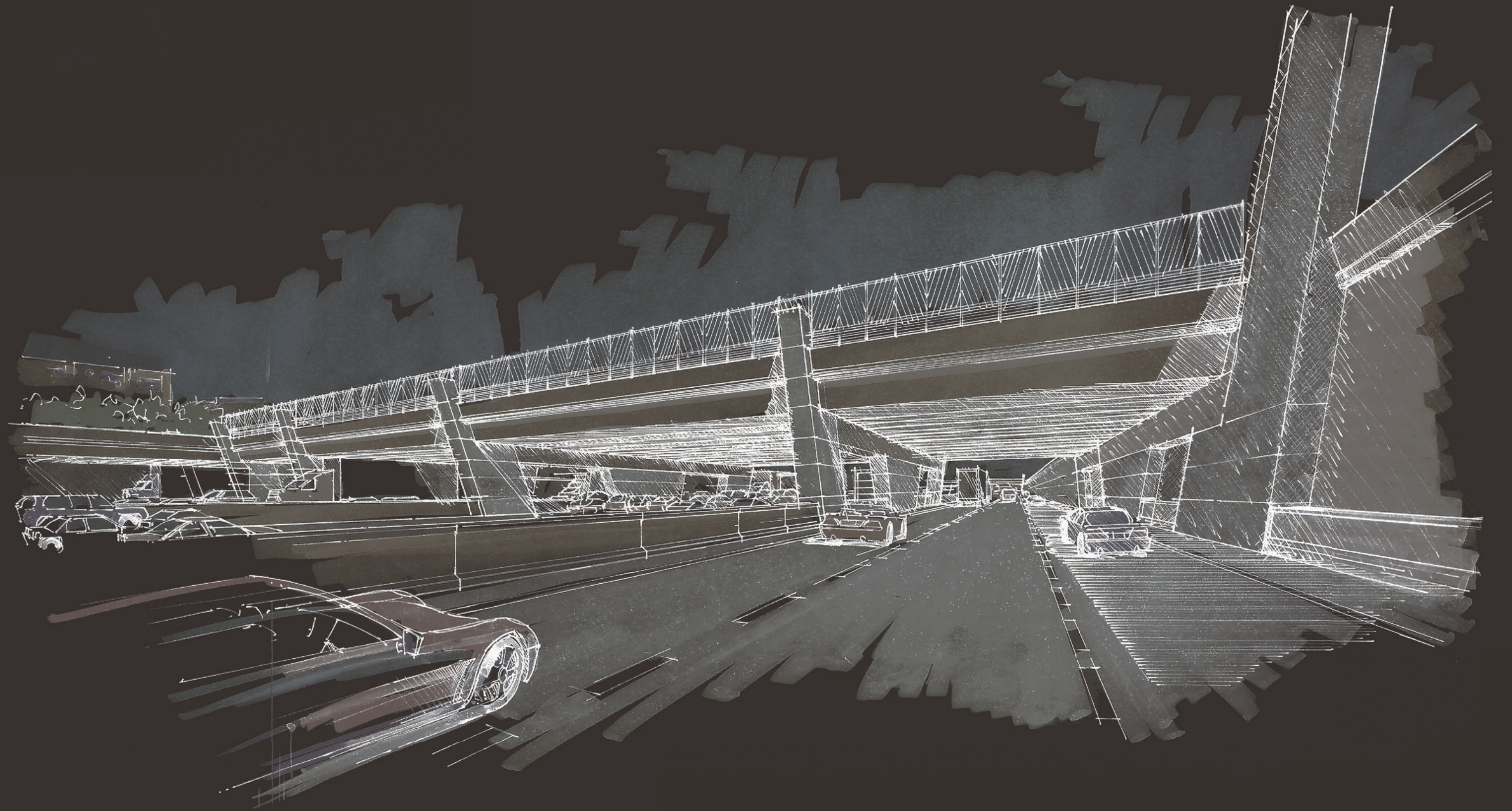


Heavy Sandblast Finish:  
Scott System #121  
Sandblast #3



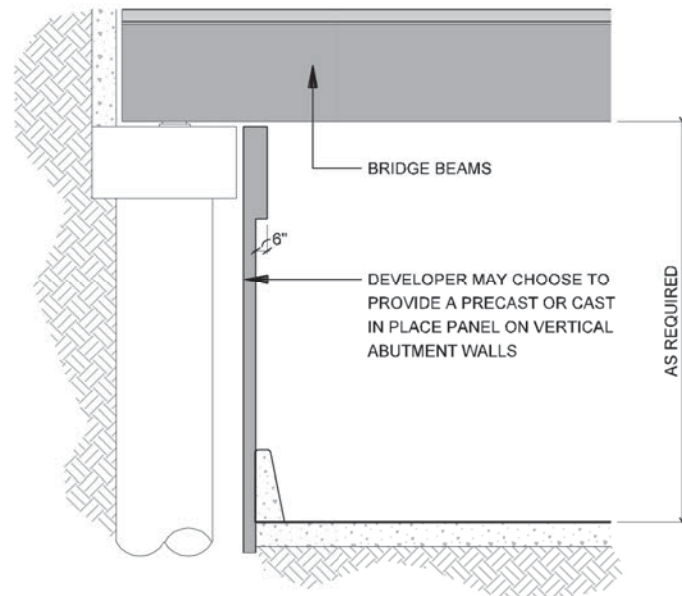
Light Sandblast Finish:  
Scott System #119  
Sandblast #1





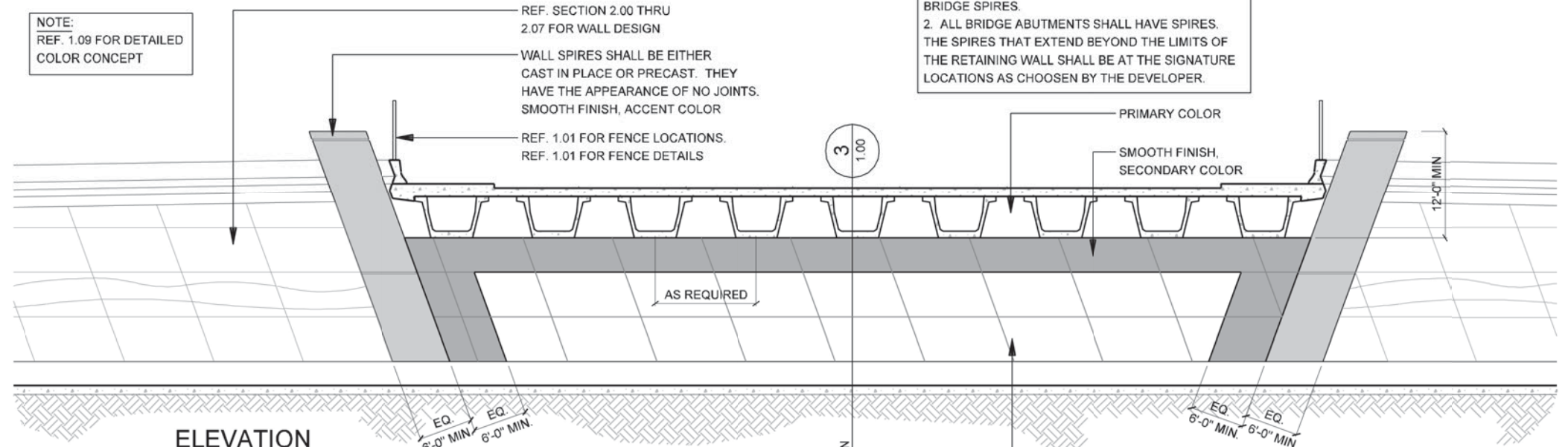
BRIDGE AESTHETICS





**3** SECTION  
BRIDGE - COLUMNS  
SCALE: 1/8"=1'-0"

NOTE:  
REF. 1.09 FOR DETAILED  
COLOR CONCEPT



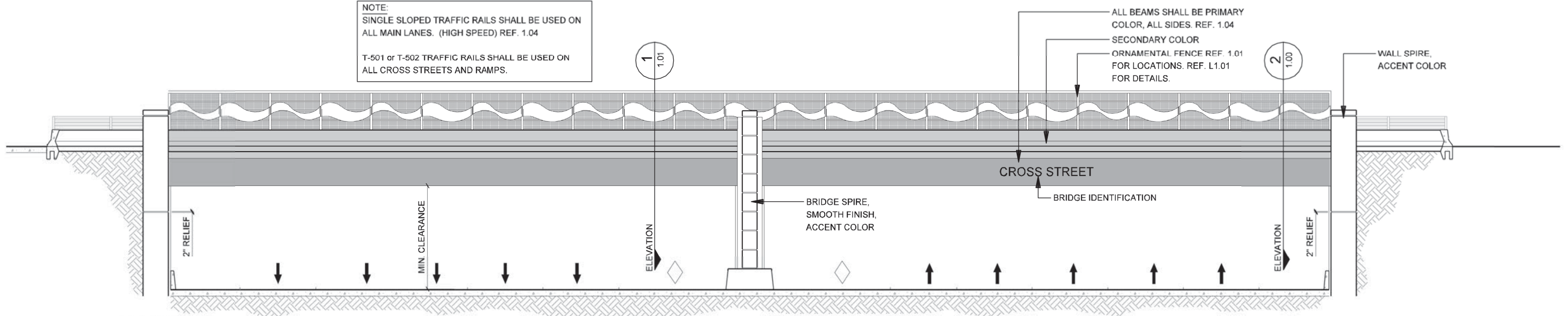
**2** ELEVATION  
CROSS STREET UNDERPASS - BRIDGE ABUTMENT  
SCALE: 1/16"=1'-0"

NOTE:  
1. DEVELOPER IS RESPONSIBLE FOR WORKING OUT  
THE DESIGN OF THE MSE WITH RELATION TO THE  
BRIDGE SPIRES.  
2. ALL BRIDGE ABUTMENTS SHALL HAVE SPIRES.  
THE SPIRES THAT EXTEND BEYOND THE LIMITS OF  
THE RETAINING WALL SHALL BE AT THE SIGNATURE  
LOCATIONS AS CHOSEN BY THE DEVELOPER.

PRIMARY COLOR  
SMOOTH FINISH,  
SECONDARY COLOR  
12'-0" MIN.  
EQ. 6'-0" MIN. EQ. 6'-0" MIN.  
THIS AREA TO BE LEFT BLANK WITH A SMOOTH FINISH. PRIMARY  
COLOR. AREA TO BE USE FOR COMMUNITY ARTWORK OR  
ENHANCEMENT

DEFINITION: CROSS STREET UNDERPASS - MAINLANE OF IH635 PASSES UNDER CROSS STREET BRIDGES.

NOTE:  
SINGLE SLOPED TRAFFIC RAILS SHALL BE USED ON  
ALL MAIN LANES. (HIGH SPEED) REF. 1.04  
T-501 or T-502 TRAFFIC RAILS SHALL BE USED ON  
ALL CROSS STREETS AND RAMPS.



**1** ELEVATION  
CROSS STREET UNDERPASS - FRONT VIEW  
SCALE: 1/16"=1'-0"

NOTE:  
REF. 1.09 FOR DETAILED  
COLOR CONCEPT

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

SCALE:  
AS NOTED

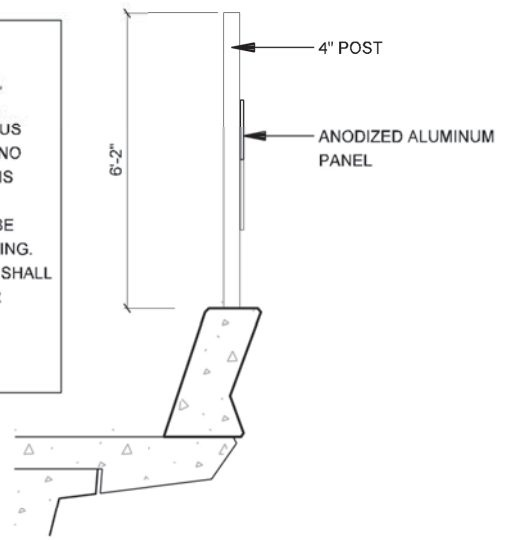
SHEET CONTENTS:  
BRIDGE AESTHETICS

ATTACHMENT:  
15-1A

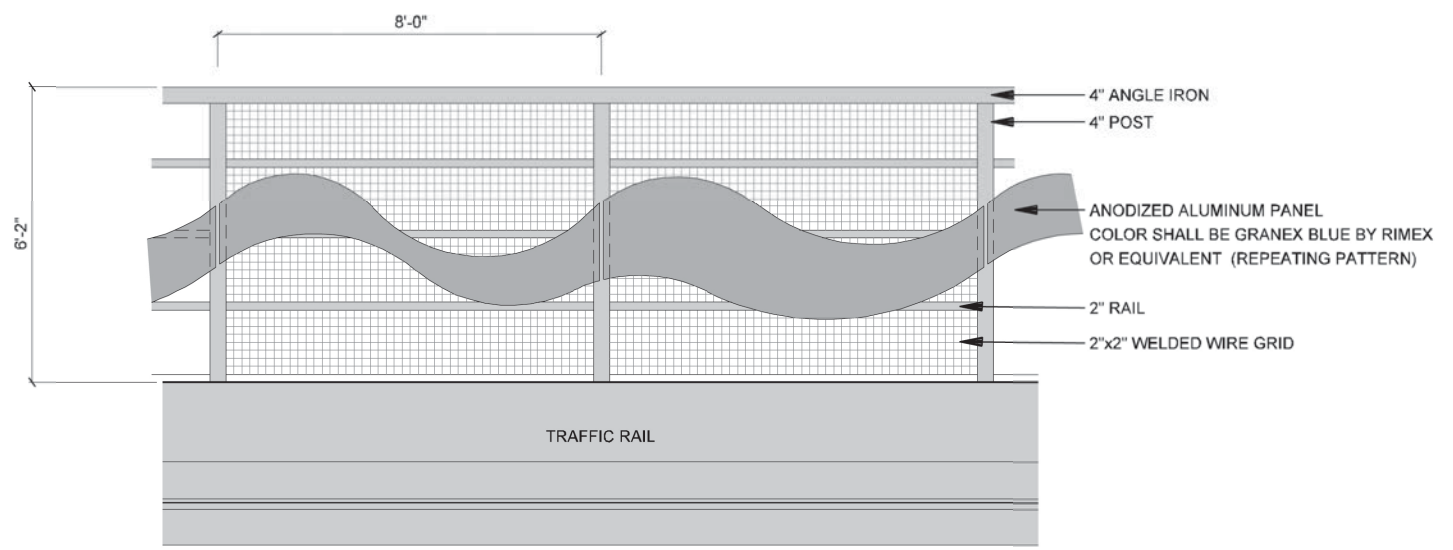
SHEET NUMBER:  
1.00



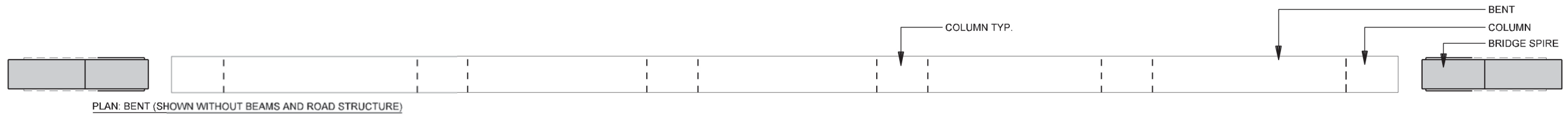
**NOTE:**  
 DEVELOPER SHALL DEVELOP CONCEPT AND LOCATION FOR SECURITY FENCING AT R.O.W., SECURITY FENCING, RAILROAD CROSSINGS AND FENCING FOR RESIDENTIAL ADJACENCY. FENCING SHALL HAVE A CLEAN CONTINUOUS AND ORDERLY APPEARANCE THROUGH OUT CORRIDOR. NO STANDARD CHAIN LINK FENCING SHALL BE USED ON THIS CORRIDOR. DEVELOPER SHALL CHOOSE OR DESIGN A FENCE OTHER THAN STANDARD CHAINLINK THAT WILL BE USED FOR SECURITY FENCING OR ACCESSIBILITY FENCING. ALL FENCING DESIGNS, FENCE COLORS AND LOCATION SHALL BE APPROVED PRIOR TO CONSTRUCTION. (DEVELOPER SHALL ENSURE THAT COORDINATION WITH RAIL ROADS MUNICIPALITIES, AND ALL OTHER PROPERTY OWNERS HAS TAKEN PLACE WITH REGARDS TO FENCING.)



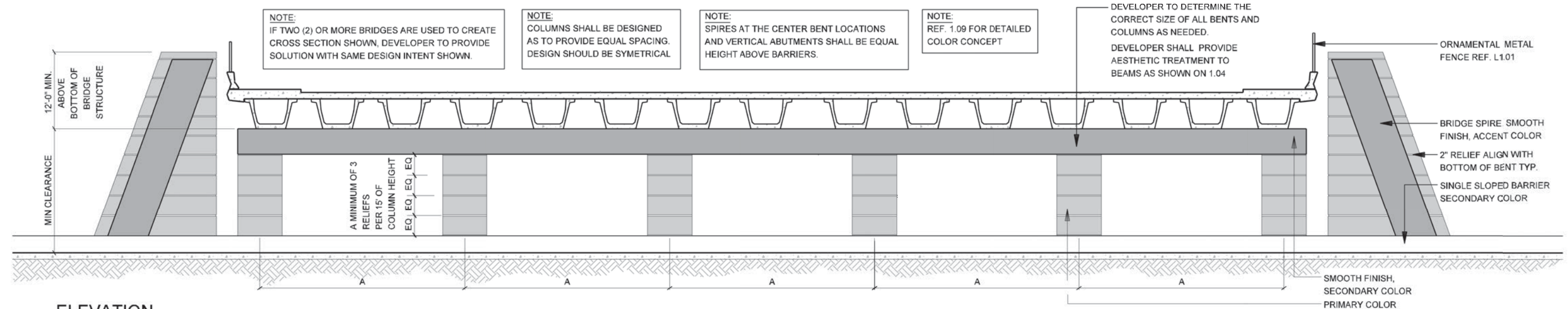
DEVELOPER SHALL DEVELOP METHOD OF CONSTRUCTION FOR FENCE DETAIL.



**2 FENCE - SECTION**  
 SCALE: 1/4"=1'-0"



PLAN: BENT (SHOWN WITHOUT BEAMS AND ROAD STRUCTURE)



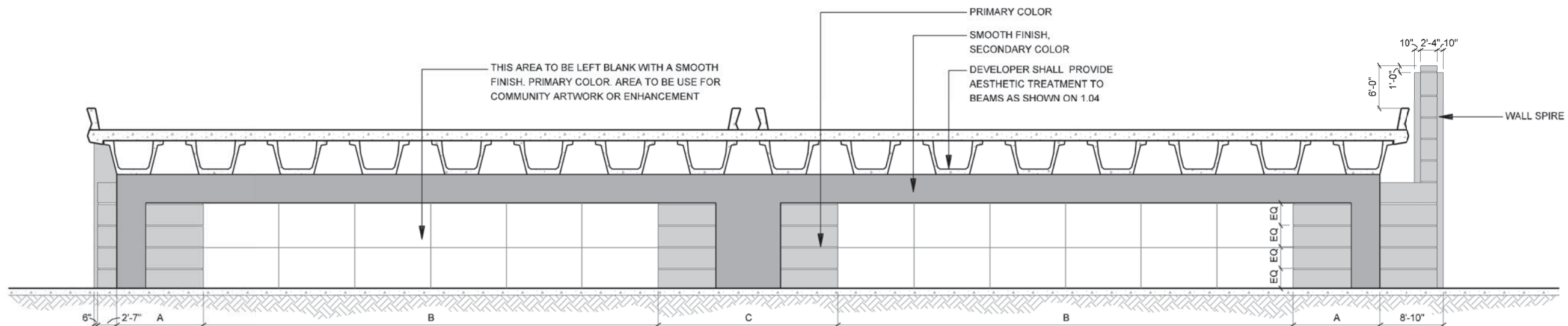
**1 ELEVATION CROSS STREET UNDERPASS - BENT ELEVATION**  
 SCALE: 1/16"=1'-0"



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: BRIDGE AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>1.01</b>
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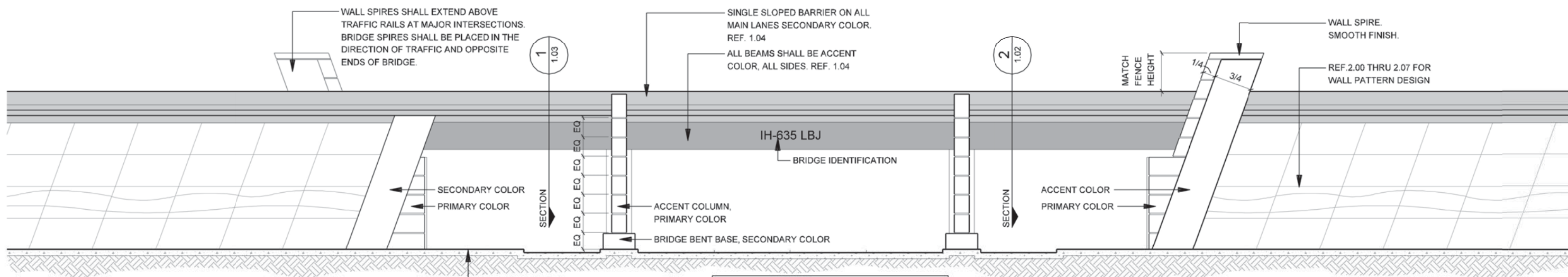




**2**  
**ELEVATION**  
**CROSS STREET OVERPASS - BRIDGE ABUTMENT**  
 SCALE: 1/16"=1'-0"

NOTE:  
 REF. 1.10 FOR DETAILED  
 COLOR CONCEPT

DEFINITION: CROSS STREET OVERPASS - MAINLANE OF IH635 PASSES OVER CROSS STREET BRIDGES.



**1**  
**ELEVATION**  
**CROSS STREET OVERPASS - FRONT VIEW**  
 SCALE: 1/16"=1'-0"

NOTE:  
 REF. 1.10 FOR DETAILED  
 COLOR CONCEPT

NOTE  
 SINGLE SLOPED TRAFFIC RAILS SHALL BE USED ON  
 ALL MAIN LANES.  
 T-501 OR T-502 TRAFFIC RAILS SHALL BE USED ON  
 ALL CROSS STREETS AND RAMPS.



IH635 MANAGED  
 LANES PROJECT



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
 09/12/2007

SCALE:  
 AS NOTED

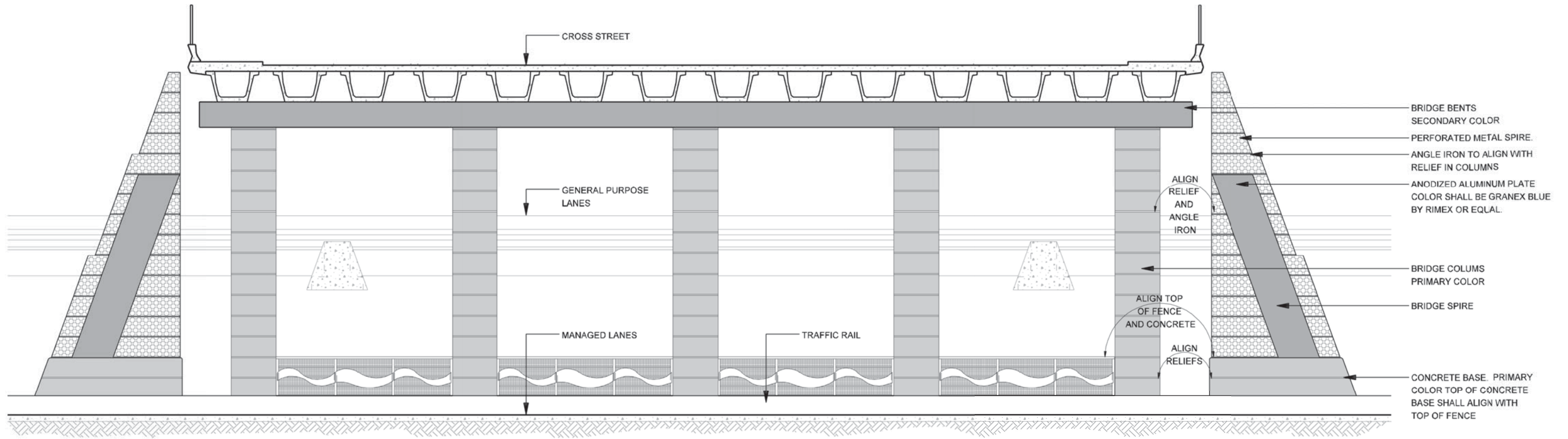
SHEET CONTENTS:  
 BRIDGE AESTHETICS

ATTACHMENT:  
 15-1A

SHEET NUMBER:

1.02

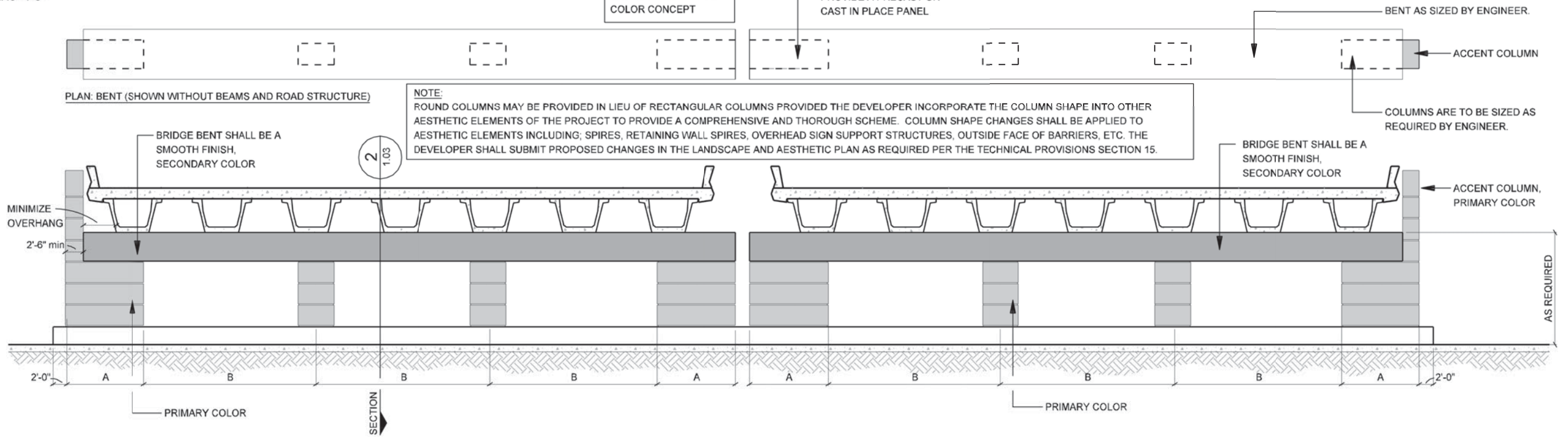




**2** ELEVATION CROSS STREET UNDER PASS - U-WALL  
SCALE: 1/16"=1'-0"

NOTE:  
REF. 1.10 FOR DETAILED  
COLOR CONCEPT

DEVELOPER MAY CHOOSE TO  
PROVIDE A PRECAST OR  
CAST IN PLACE PANEL



**1** ELEVATION CROSS STREET OVERPASS - BENT ELEVATION  
SCALE: 1/16"=1'-0"

NOTE:  
IF TWO (2) OR MORE BRIDGES ARE USED TO CREATE  
CROSS SECTION SHOWN, DEVELOPER TO PROVIDE  
SOLUTION WITH SAME DESIGN INTENT SHOWN.



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
12/07/2007

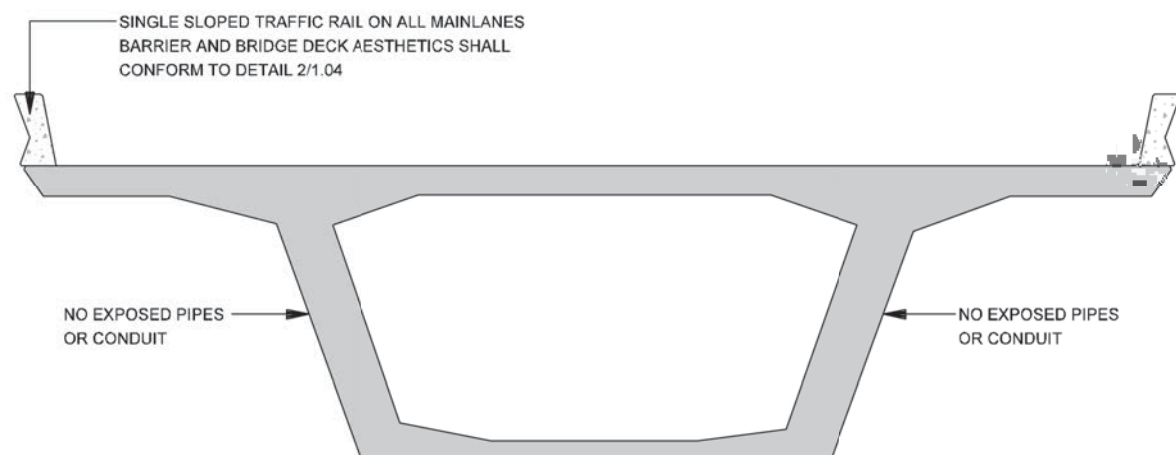
SCALE:  
AS NOTED

SHEET CONTENTS:  
BRIDGE AESTHETICS

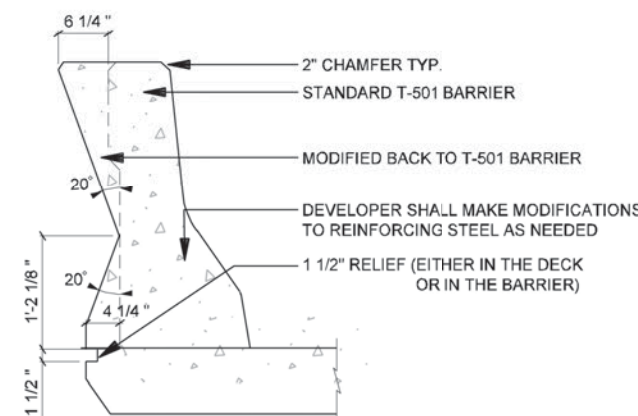
ATTACHMENT:  
15-1A

SHEET NUMBER:  
**1.03**

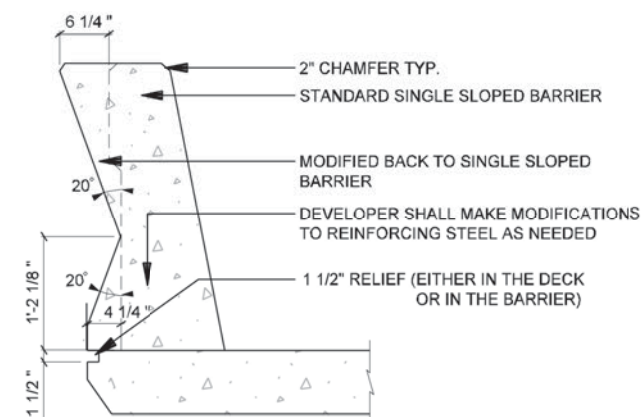




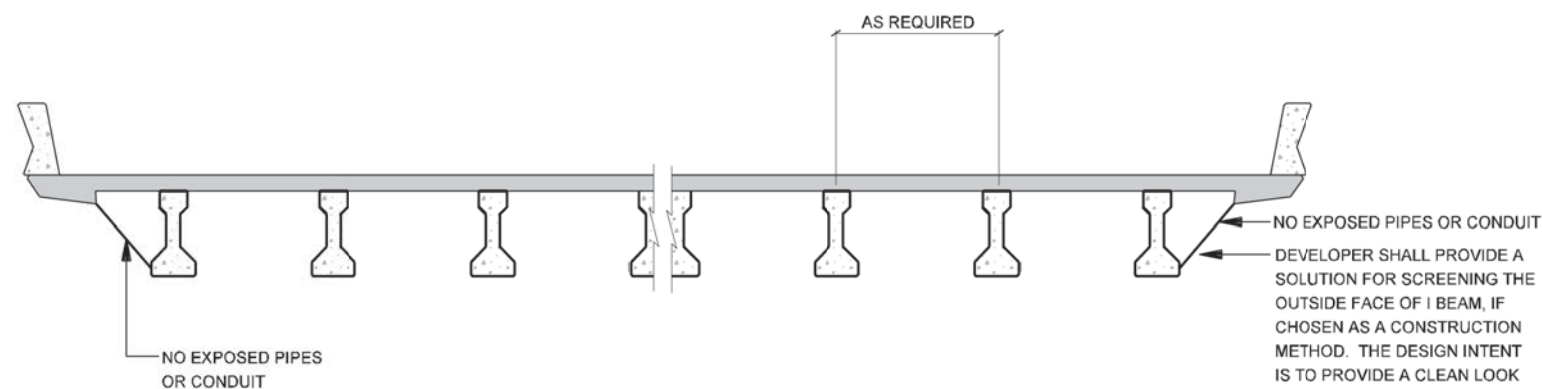
**5** SECTION  
SEGMENTAL BRIDGE CONSTRUCTION.  
SCALE: NTS



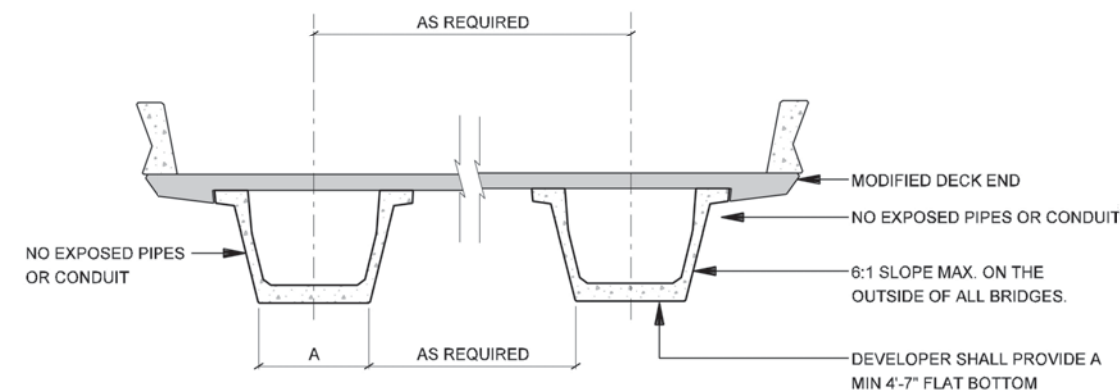
**4** SECTION  
MODIFIED T-501, T-502 BARRIER  
SCALE: 1/2"=1'-0"



**2** SECTION  
MODIFIED SINGLE SLOPED BARRIER  
SCALE: 1/2"=1'-0"

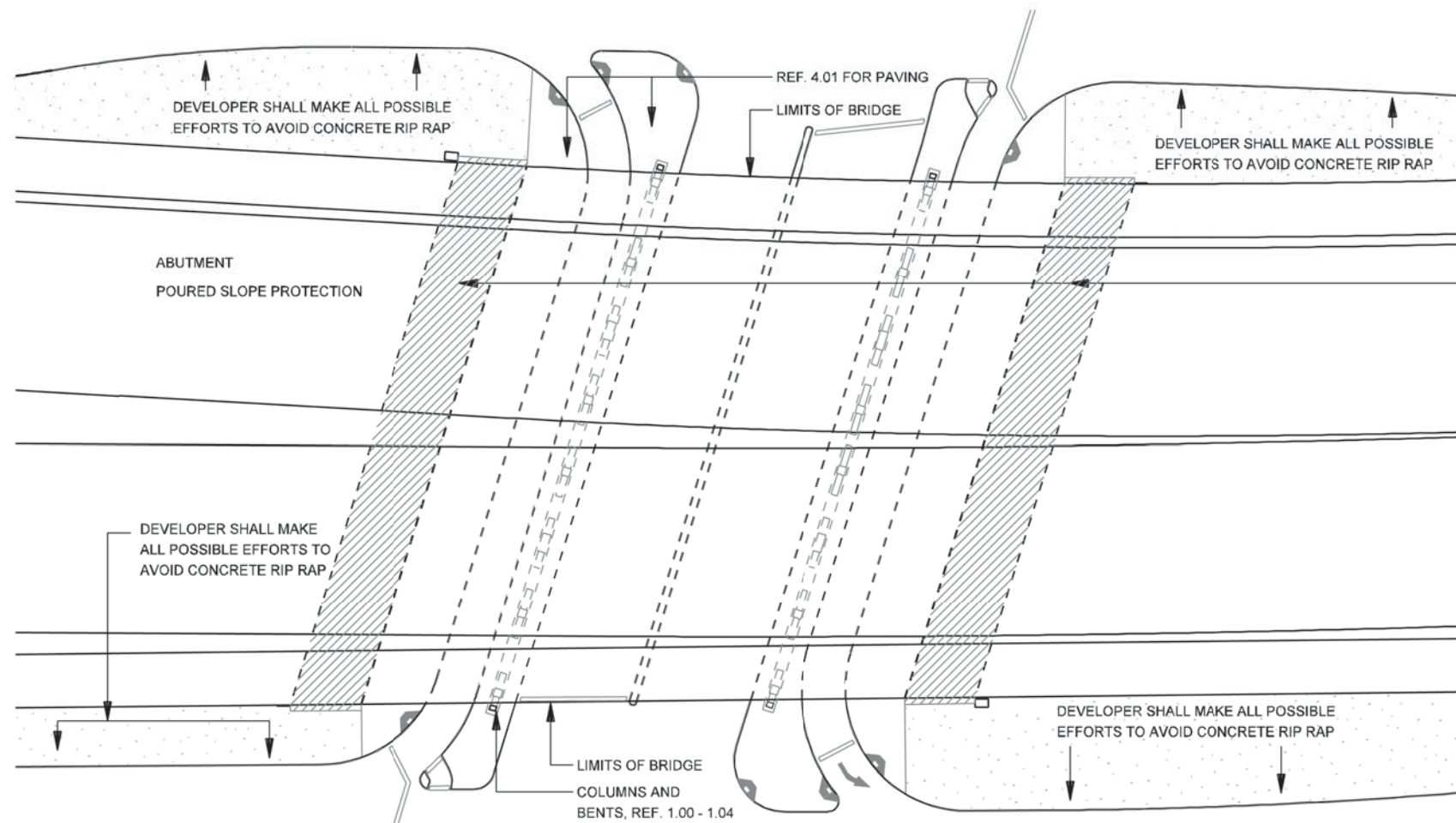


**3** ELEVATION  
I-BEAM STRUCTURE  
SCALE: 1/8"=1'-0"



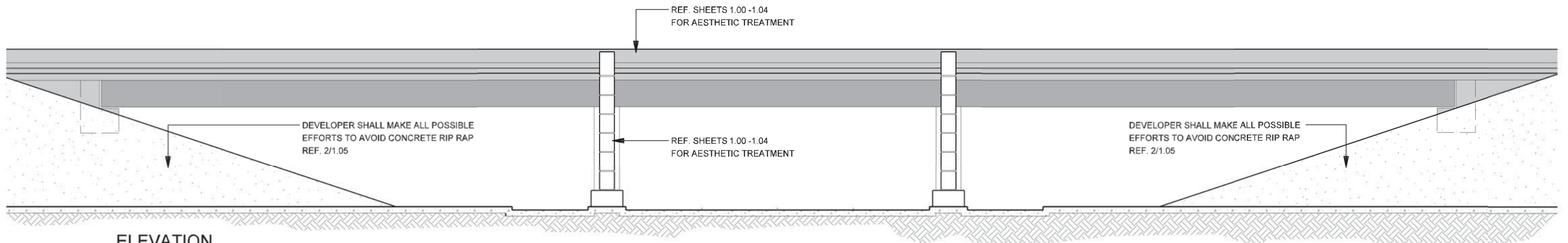
**1** SECTION  
U-BEAM STRUCTURE  
SCALE: 1/8"=1'-0"





DEVELOPER SHALL MAKE ALL POSSIBLE EFFORTS TO AVOID RIP RAP FROM EXTENDING 3'-0" MAX. BEYOND THE LIMITS OF THE BRIDGE OVERHANG VISIBLE TO ADJACENT PROPERTIES OR THE TRAVELLING PUBLIC. ALL RIP RAP SHALL BE CONCRETE PAVERS OR STAINED CONCRETE WITH ALL JOINTS PARALLEL TO BRIDGE STRUCTURE. ALL RIP RAP SHALL CONFORM TO THE DESIGN INTENT OF THE HARDSCAPE PLANS FOR PATTERN, COLOR AND MATERIAL, REF. 4.01.

**2**  
**PLAN**  
**CROSS STREET OVERPASS/UNDERPASS - RIP RAP**  
 SCALE: NTS

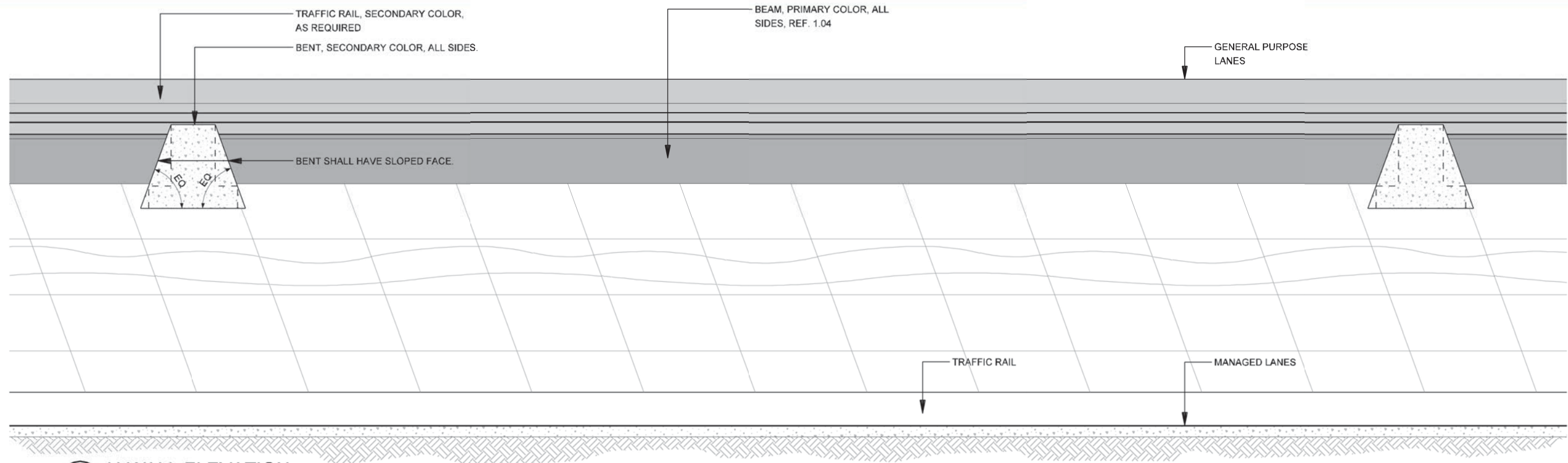


**1**  
**ELEVATION**  
**CROSS STREET OVERPASS/UNDER PASS - RIP RAP**  
 SCALE: 1/16"=1'-0"

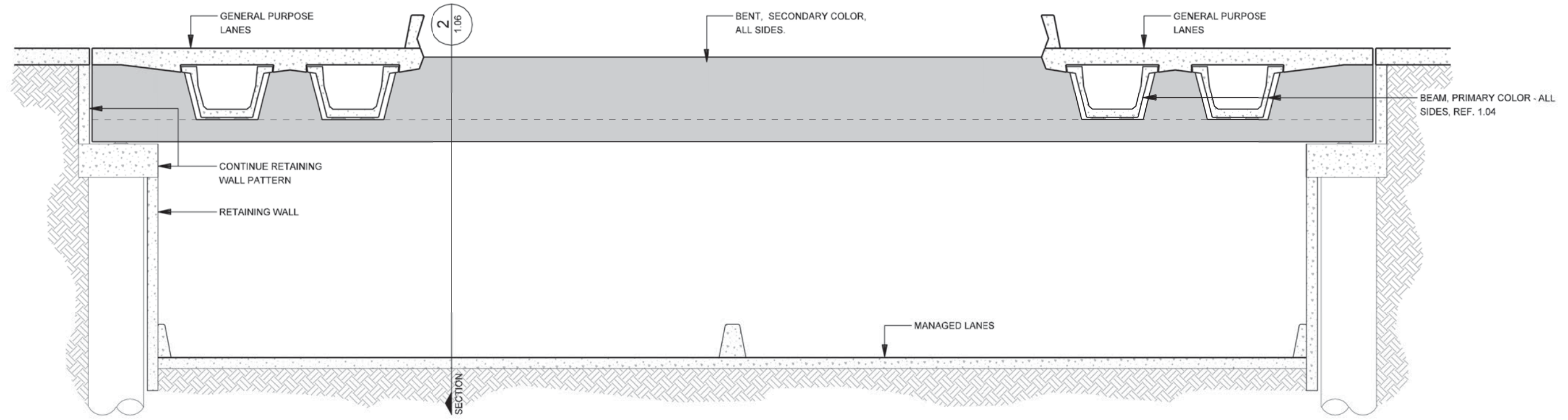
NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: BRIDGE AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>1.05</b>
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**2 U-WALL ELEVATION**  
SCALE: 1"=10'-0"



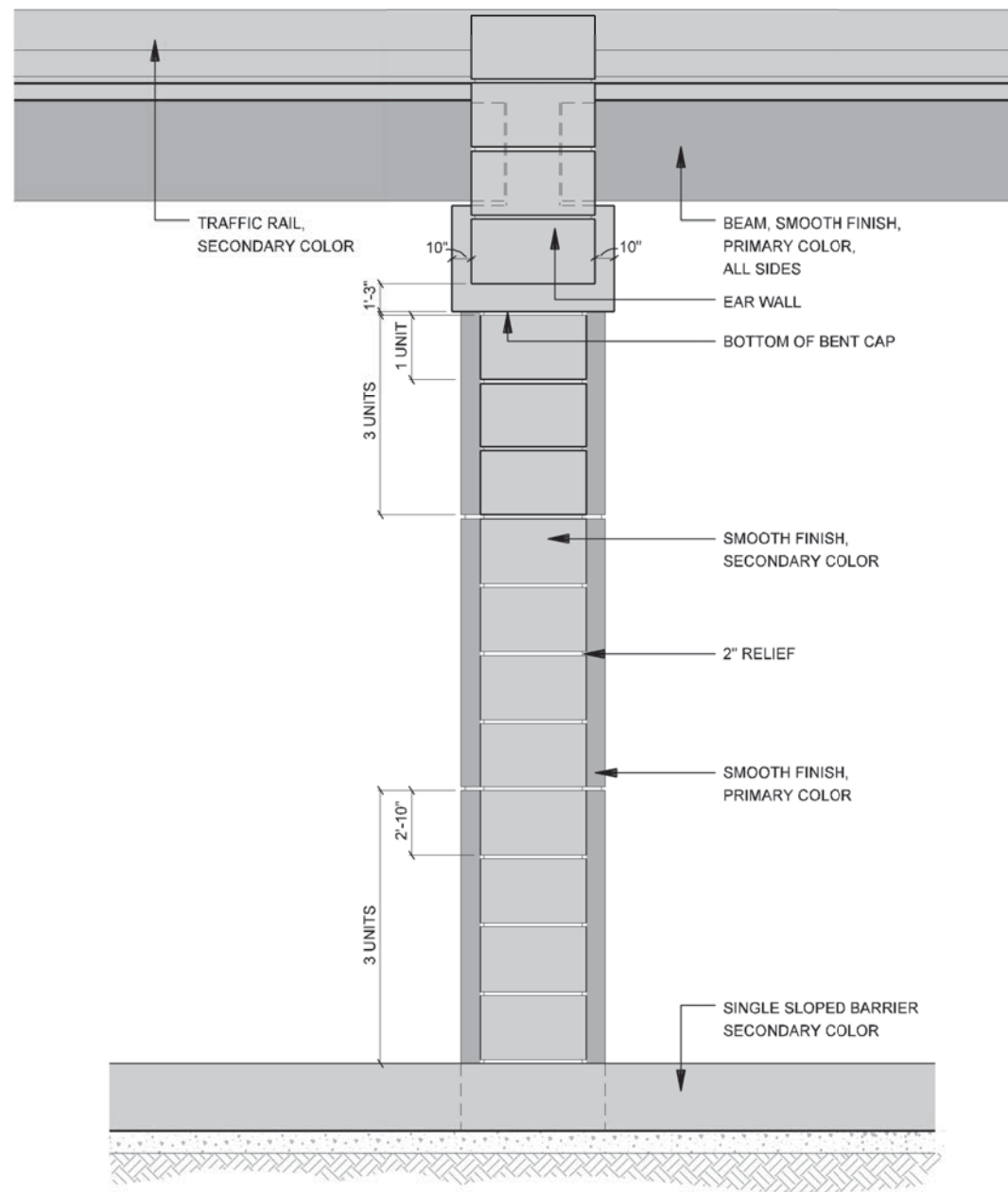
**1 U-WALL - ELEVATION**  
SCALE: 1"=10'-0"



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

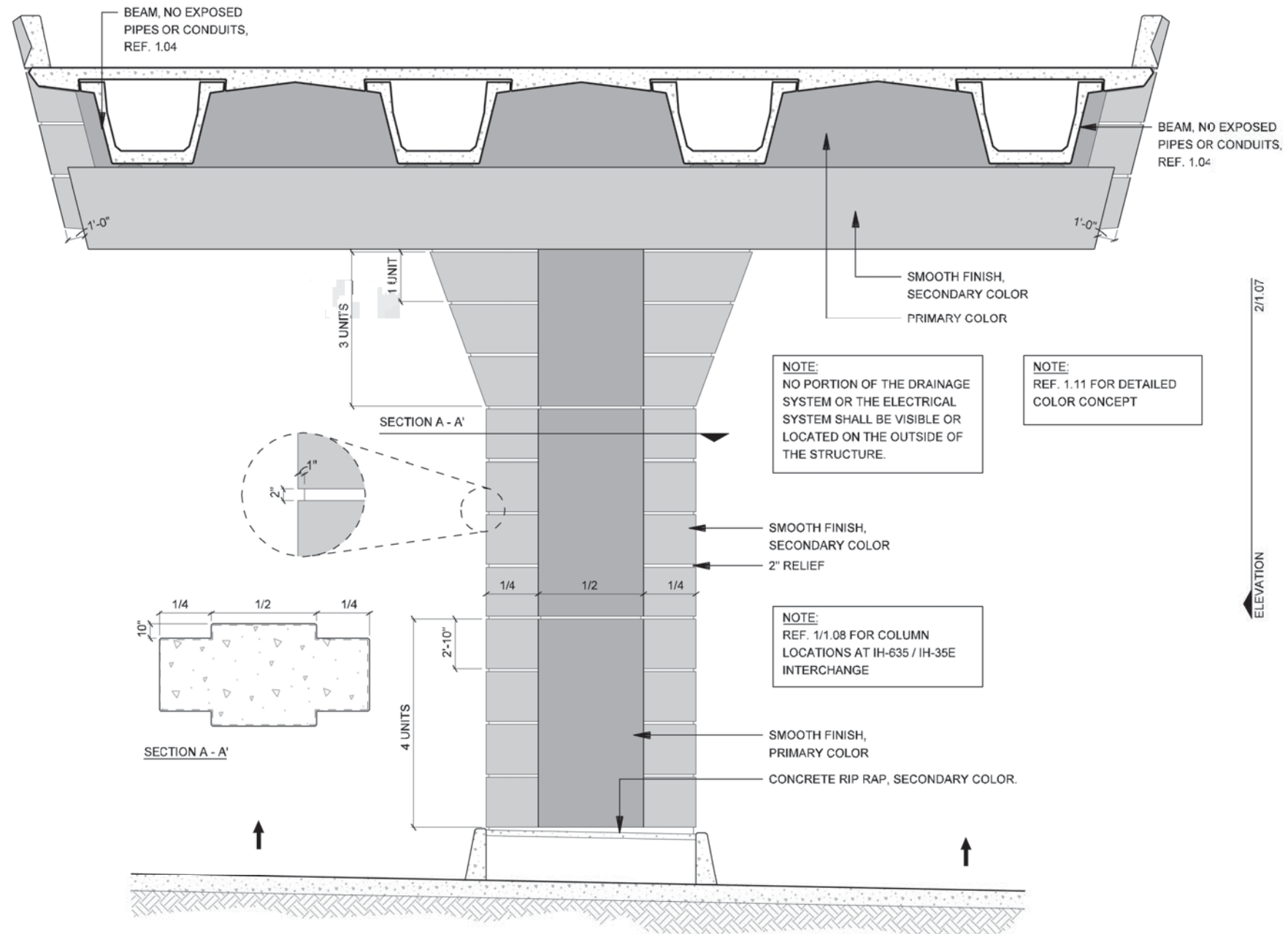
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: BRIDGE AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>1.06</b>
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**2** ELEVATION - SIDE VIEW  
 IH-635 ELEVATED MAINLANES COLUMN / PEDESTRIAN BRIDGE

SCALE: 1/8"=1'-0"



**1** ELEVATION - FRONT VIEW  
 IH-635 ELEVATED MAINLANES COLUMN / PEDESTRIAN BRIDGE

SCALE: 1/8"=1'-0"

NOTE:  
 NO PORTION OF THE DRAINAGE  
 SYSTEM OR THE ELECTRICAL  
 SYSTEM SHALL BE VISIBLE OR  
 LOCATED ON THE OUTSIDE OF  
 THE STRUCTURE.

NOTE:  
 REF. 1.11 FOR DETAILED  
 COLOR CONCEPT

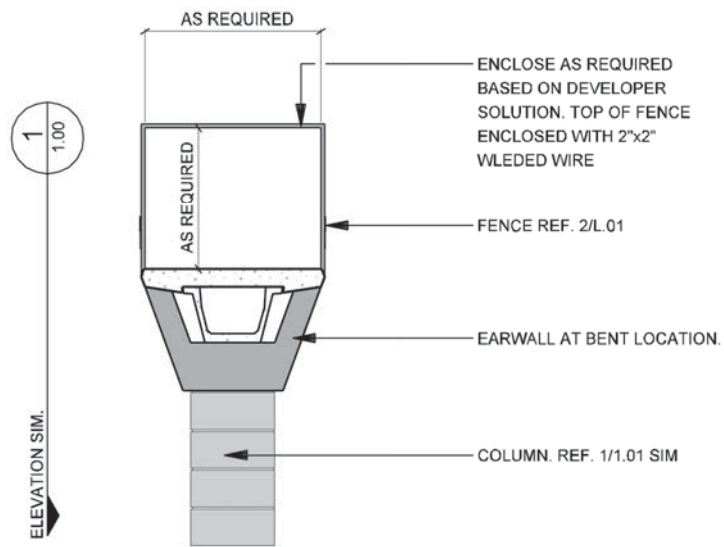
NOTE:  
 REF. 1/1.08 FOR COLUMN  
 LOCATIONS AT IH-635 / IH-35E  
 INTERCHANGE



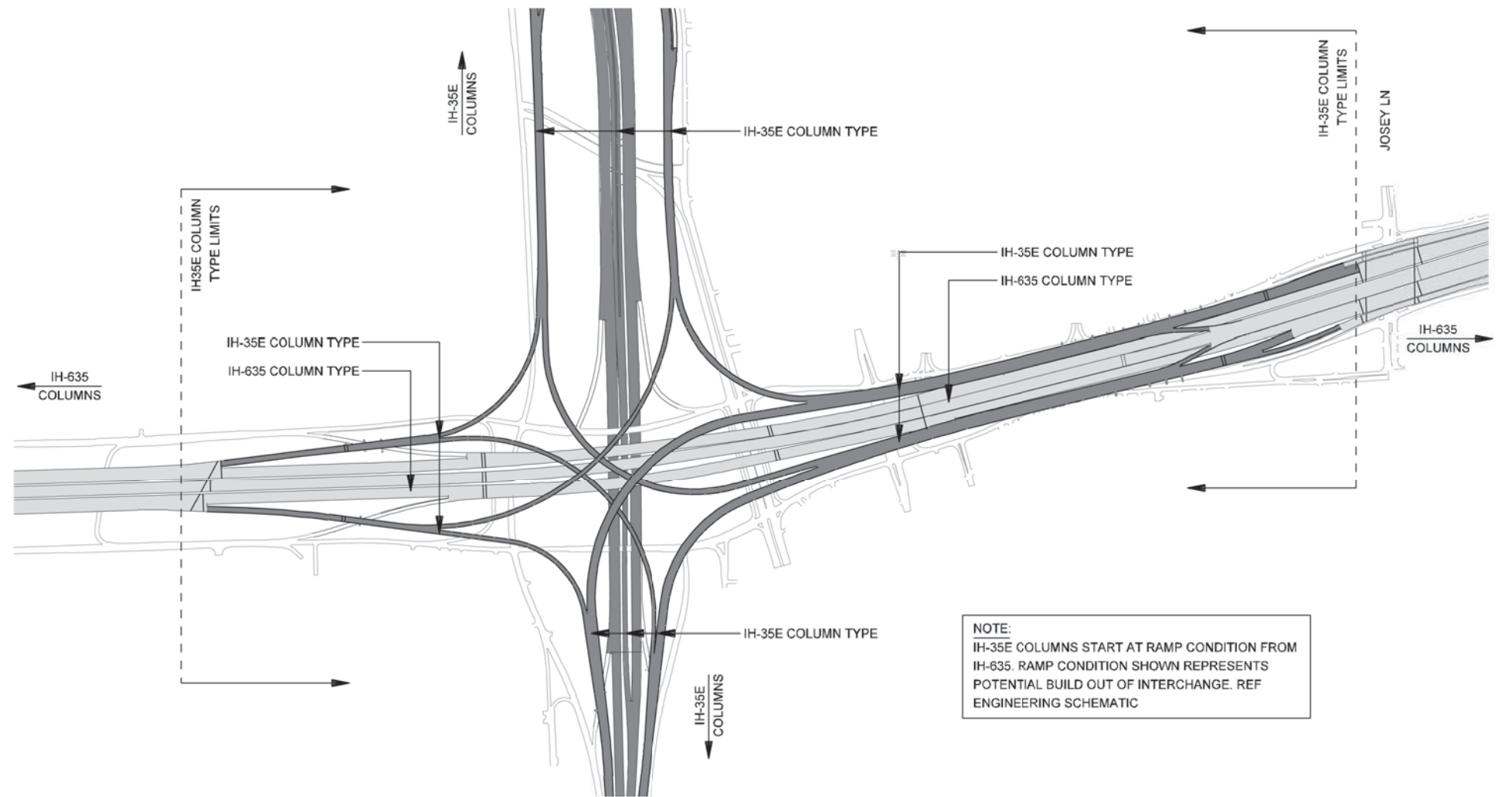
NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: BRIDGE AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>1.07</b>
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**2** ELEVATION  
**JOE RATCLIFF WALKWAY / PEDESTRIAN BRIDGES**  
 SCALE: 1/16"=1'-0"



**1** PLAN  
**COLUMN TYPE LOCATION DIAGRAM**  
 SCALE: N.T.S.

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

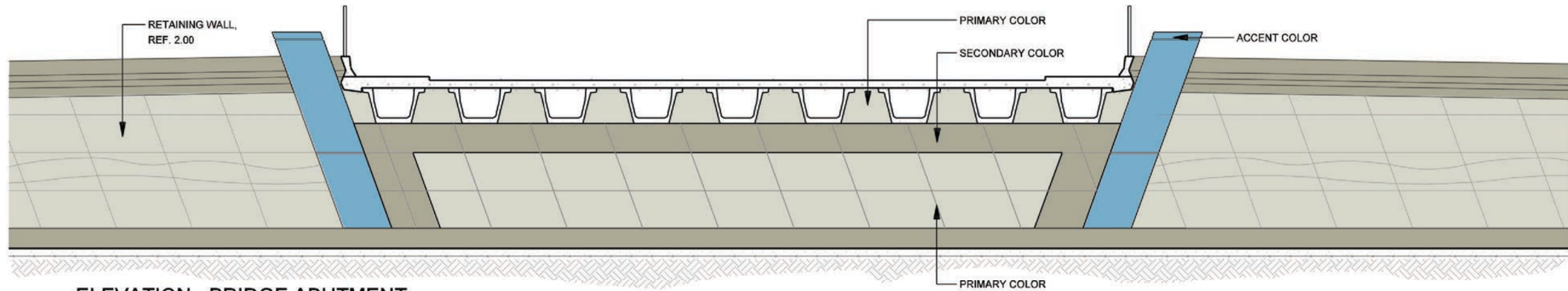
SCALE:  
AS NOTED

SHEET CONTENTS:  
BRIDGE AESTHETICS

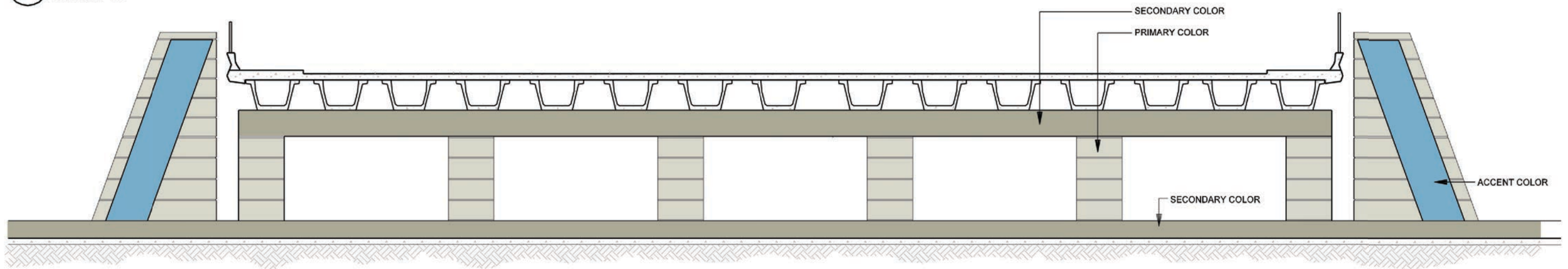
ATTACHMENT:  
15-1A

SHEET NUMBER:  
**1.08**

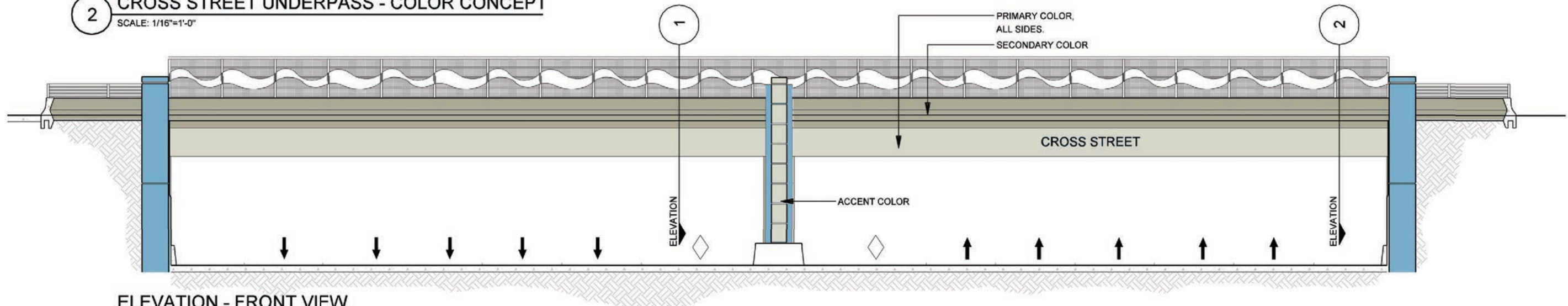




**3** ELEVATION - BRIDGE ABUTMENT  
CROSS STREET UNDERPASS - COLOR CONCEPT  
SCALE: 1/16"=1'-0"



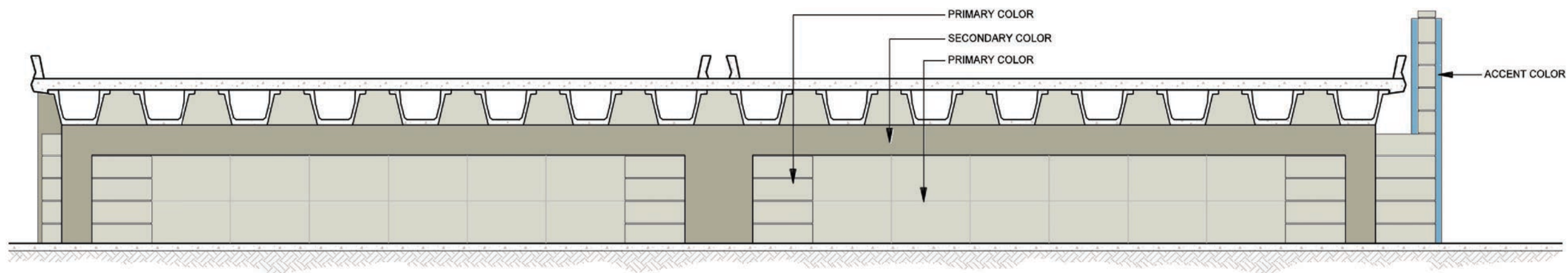
**2** BENT ELEVATION  
CROSS STREET UNDERPASS - COLOR CONCEPT  
SCALE: 1/16"=1'-0"



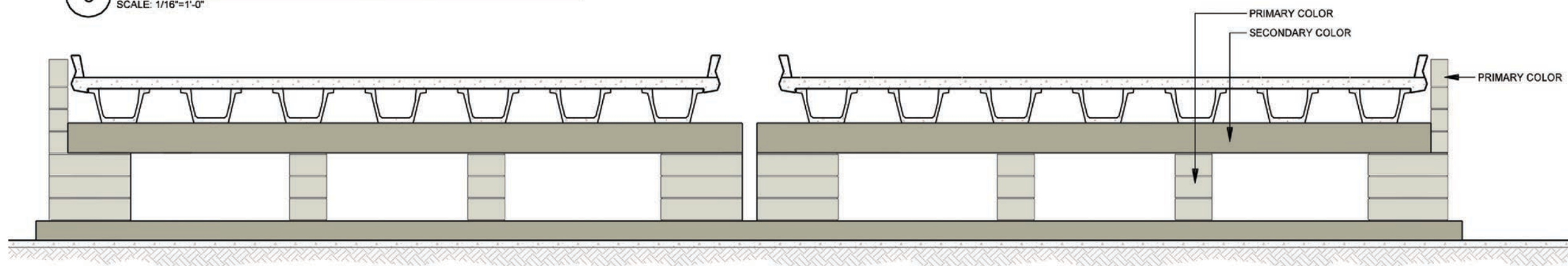
**1** ELEVATION - FRONT VIEW  
CROSS STREET UNDERPASS - COLOR CONCEPT  
SCALE: 1/16"=1'-0"

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: BRIDGE AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>1.09</b>
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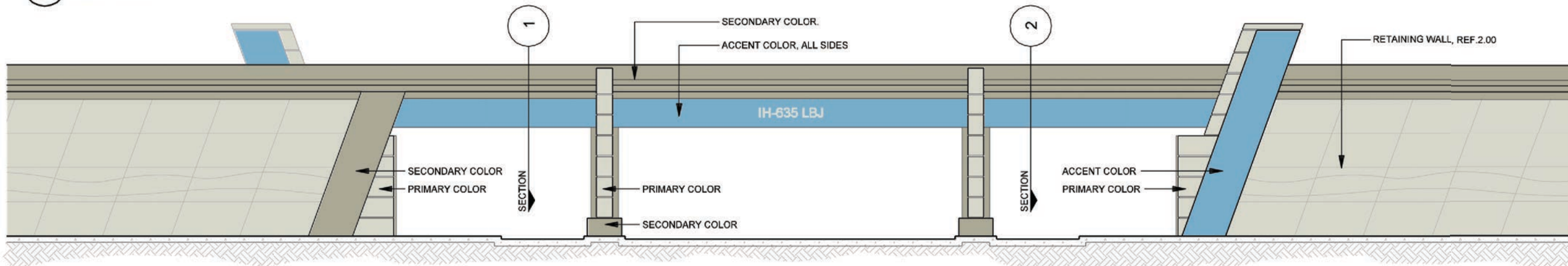




3 ELEVATION - BRIDGE ABUTMENT  
CROSS STREET OVERPASS - COLOR CONCEPT  
SCALE: 1/16"=1'-0"

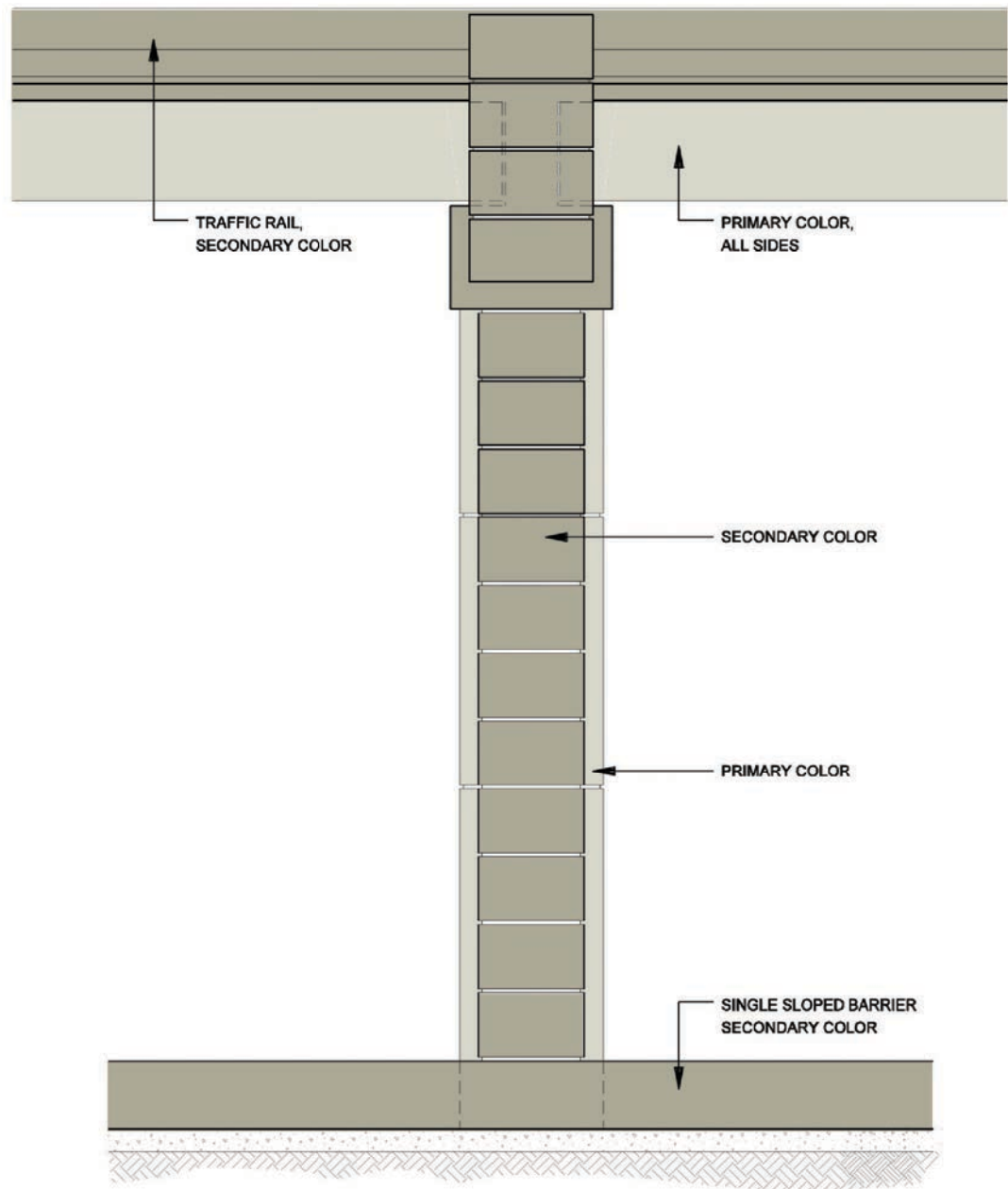


2 ELEVATION - BENT ELEVATION  
CROSS STREET OVERPASS - COLOR CONCEPT  
SCALE: 1/16"=1'-0"

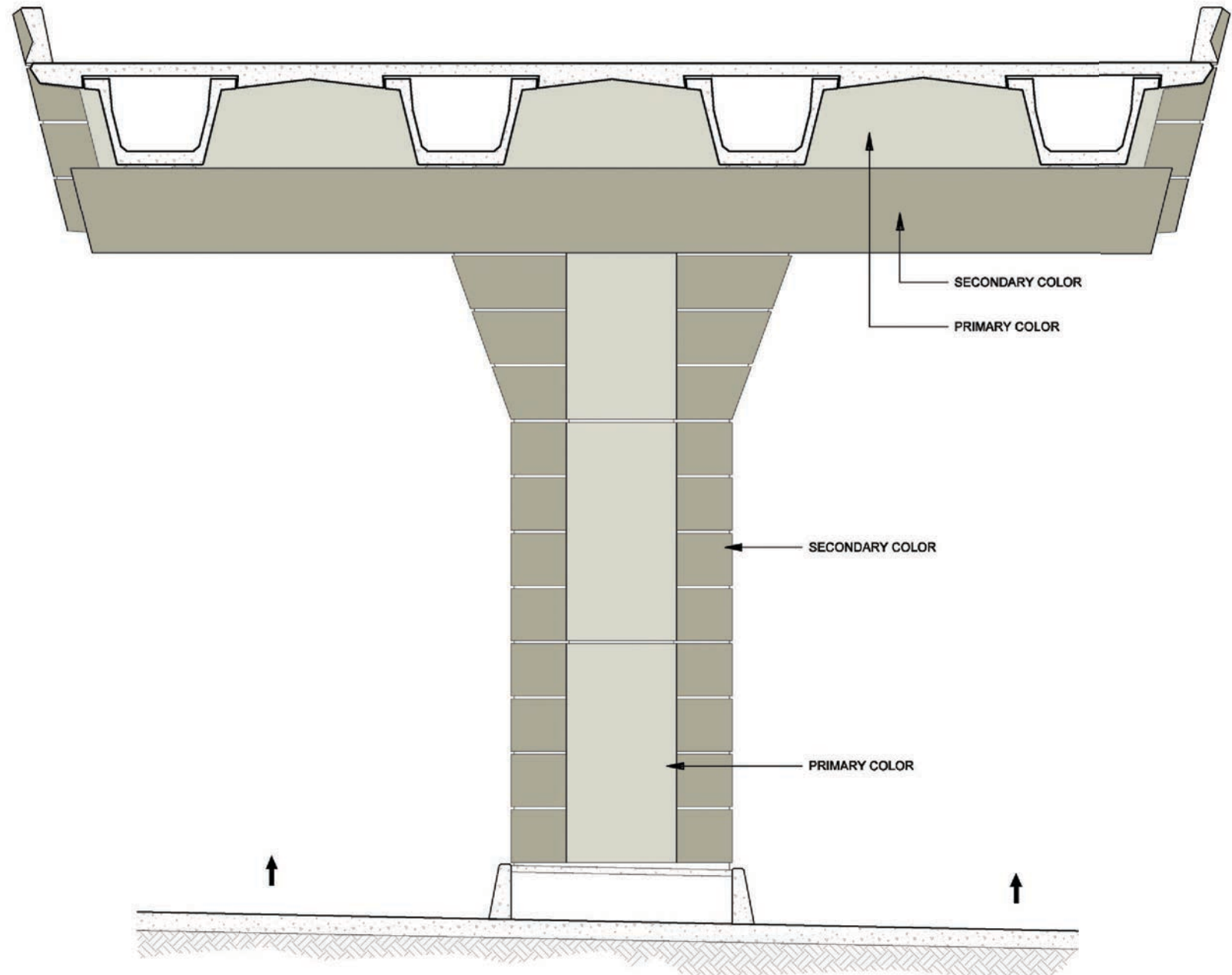


1 ELEVATION - FRONT VIEW  
CROSS STREET OVERPASS - COLOR CONCEPT  
SCALE: 1/16"=1'-0"





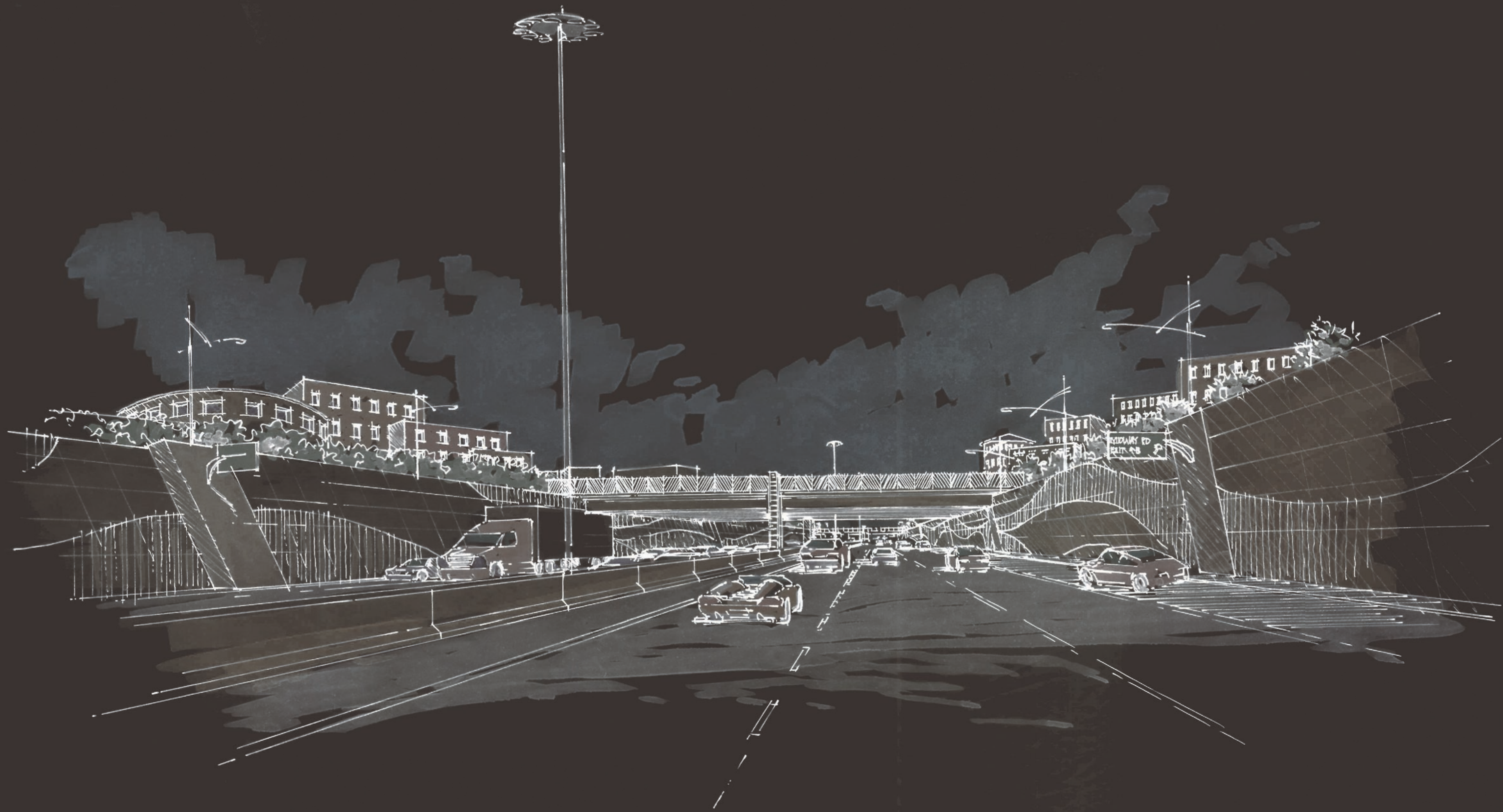
2 ELEVATION - COLOR CONCEPT  
 IH-635 ELEVATED MAINLANES COLUMN / PEDESTRIAN BRIDGE  
 SCALE: 1/8"=1'-0"



1 ELEVATION - COLOR CONCEPT  
 IH-635 ELEVATED MAINLANES COLUMN / PEDESTRIAN BRIDGE  
 SCALE: 1/8"=1'-0"

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: BRIDGE AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: 1.11
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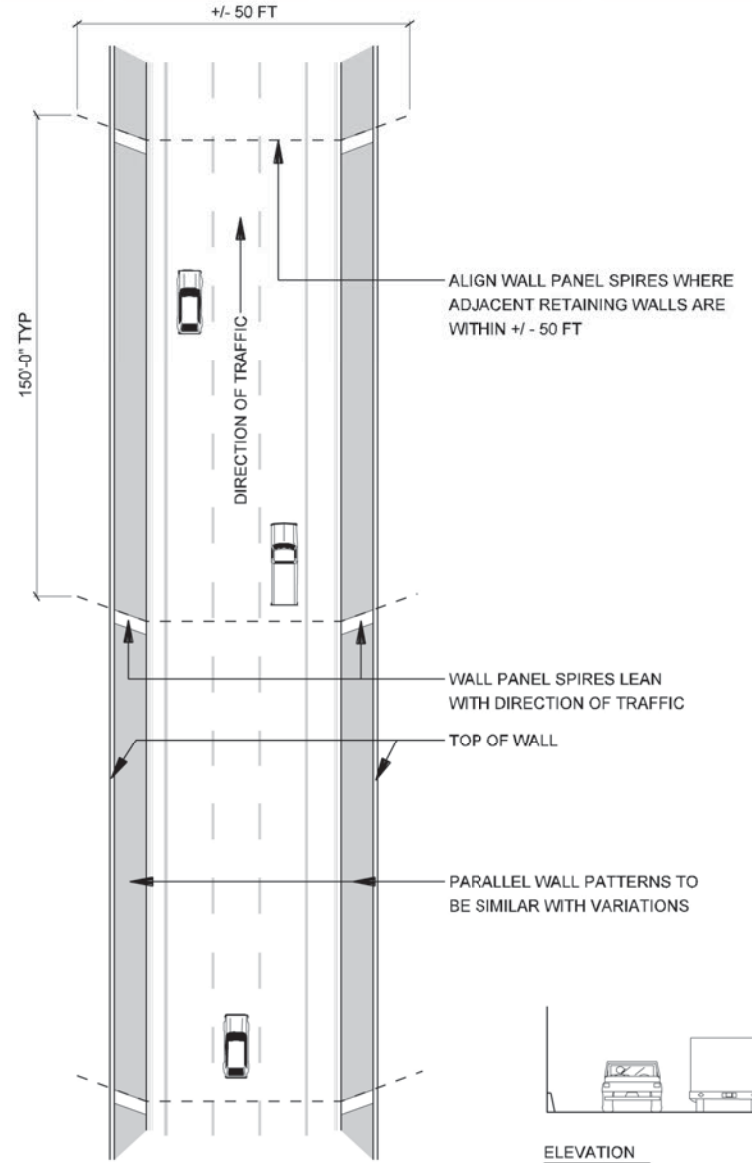
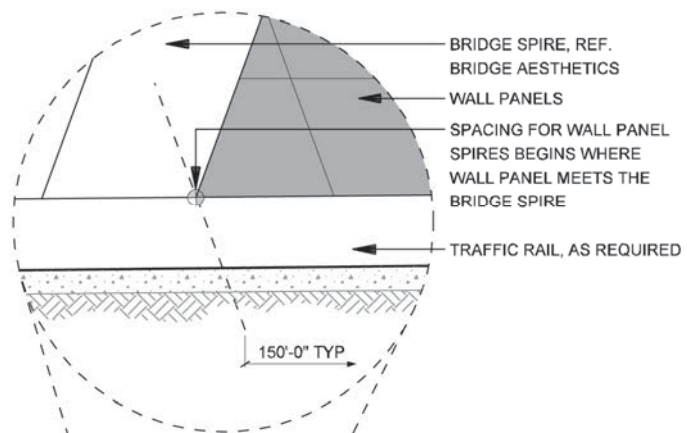




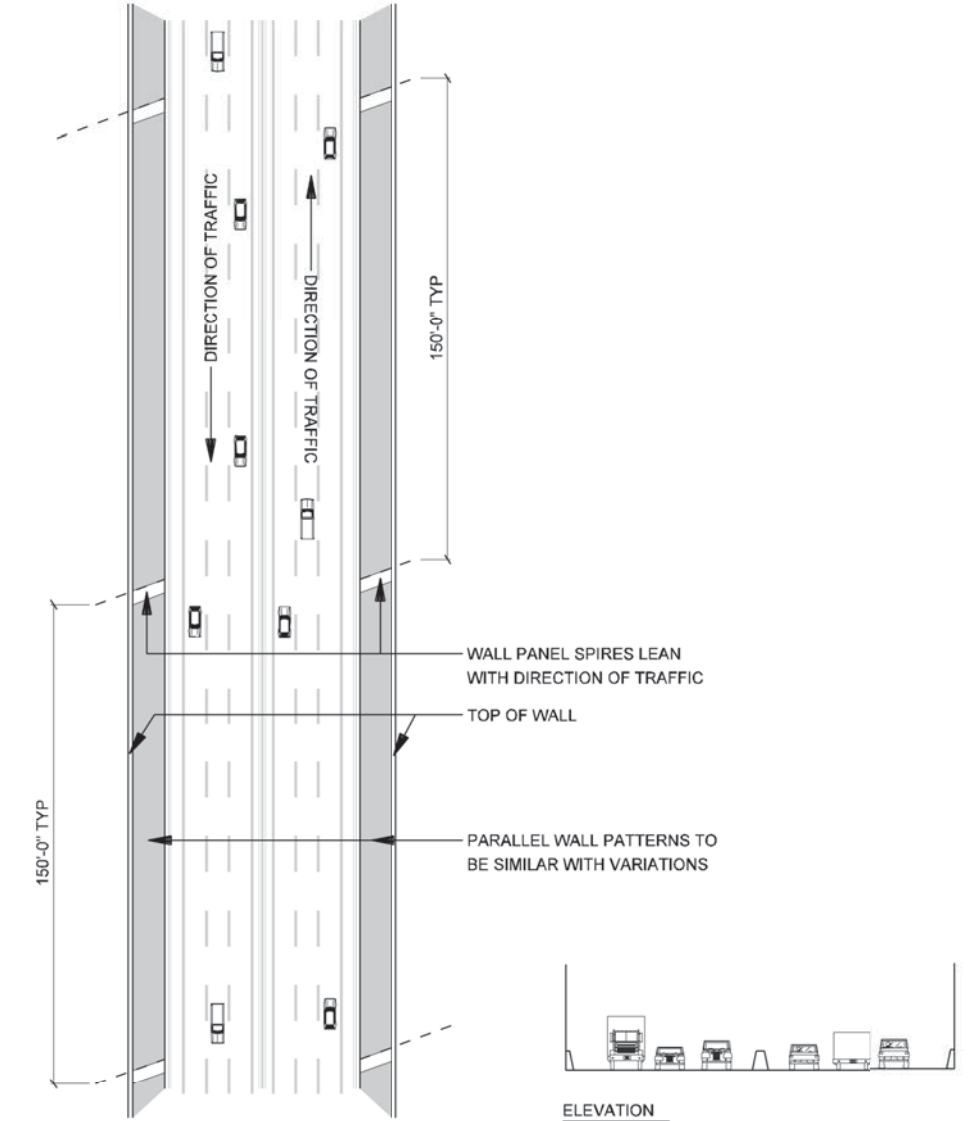
IH-635 RETAINING WALLS



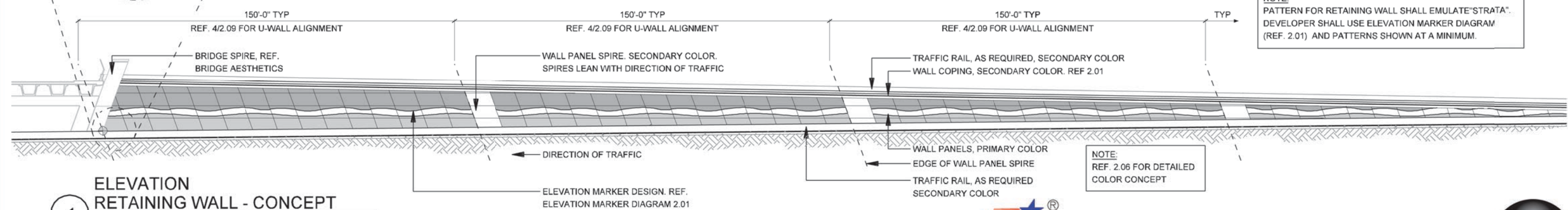
- NOTES:**
- PANELS ARE DESIGNED WITH THE FOLLOWING CRITERIA:
    - DESIGN IS BASED ON A 5' x 10' (50 SF), DEVELOPER SHALL CHOOSE ULTIMATE PANEL SIZE
    - DEVELOPER SHALL CHOOSE EITHER STACKED OR STAGARD PANELS SYTEMS
    - PANEL DESIGNED AT 20 DEGREES SKEWED
  - DEVELOPER IS RESPONSIBLE FOR PROVIDING DETAILED DRAWINGS THAT FOLLOW DESIGN INTENT IF ANOTHER METHOD OF CONSTRUCTION IS TO BE USED.
  - DEVELOPER SHALL ENSURE DIMENSIONS SHOWN ARE ADEQUATE FOR STRUCTURAL STABILITY. ANY MODIFICATIONS WILL REQUIRE APPROVAL.



**3** BIRD'S EYE PLAN  
RETAINING WALL ALIGNMENT - ALL WALLS  
SCALE: N.T.S.



**2** BIRD'S EYE PLAN  
RETAINING WALL ALIGNMENT - ALL WALLS  
SCALE: N.T.S.



**1** ELEVATION  
RETAINING WALL - CONCEPT  
SCALE: 1"=40'-0"

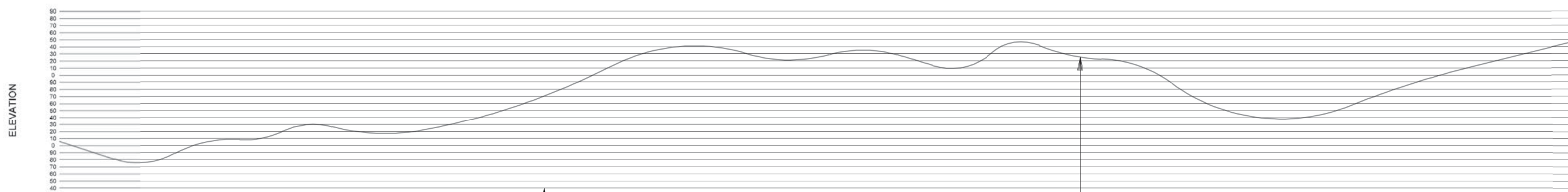
**NOTE:**  
PATTERN FOR RETAINING WALL SHALL EMULATE "STRATA".  
DEVELOPER SHALL USE ELEVATION MARKER DIAGRAM  
(REF. 2.01) AND PATTERNS SHOWN AT A MINIMUM.



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: IH-635 RETAINING WALLS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>2.00</b>
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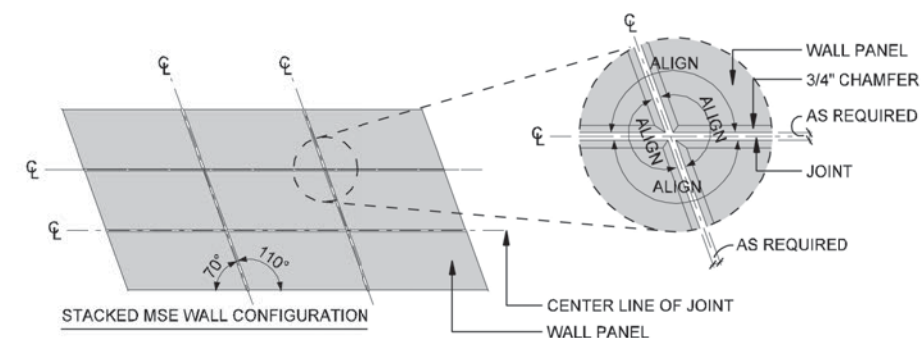
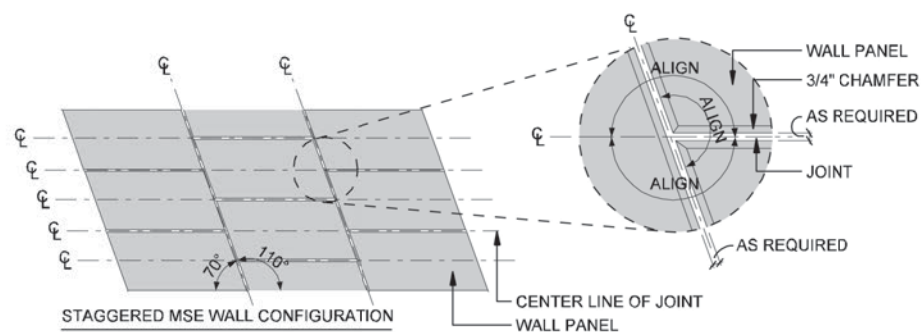




**SECTION 3 ELEVATION MARKER DIAGRAM**

SCALE: N.T.S.

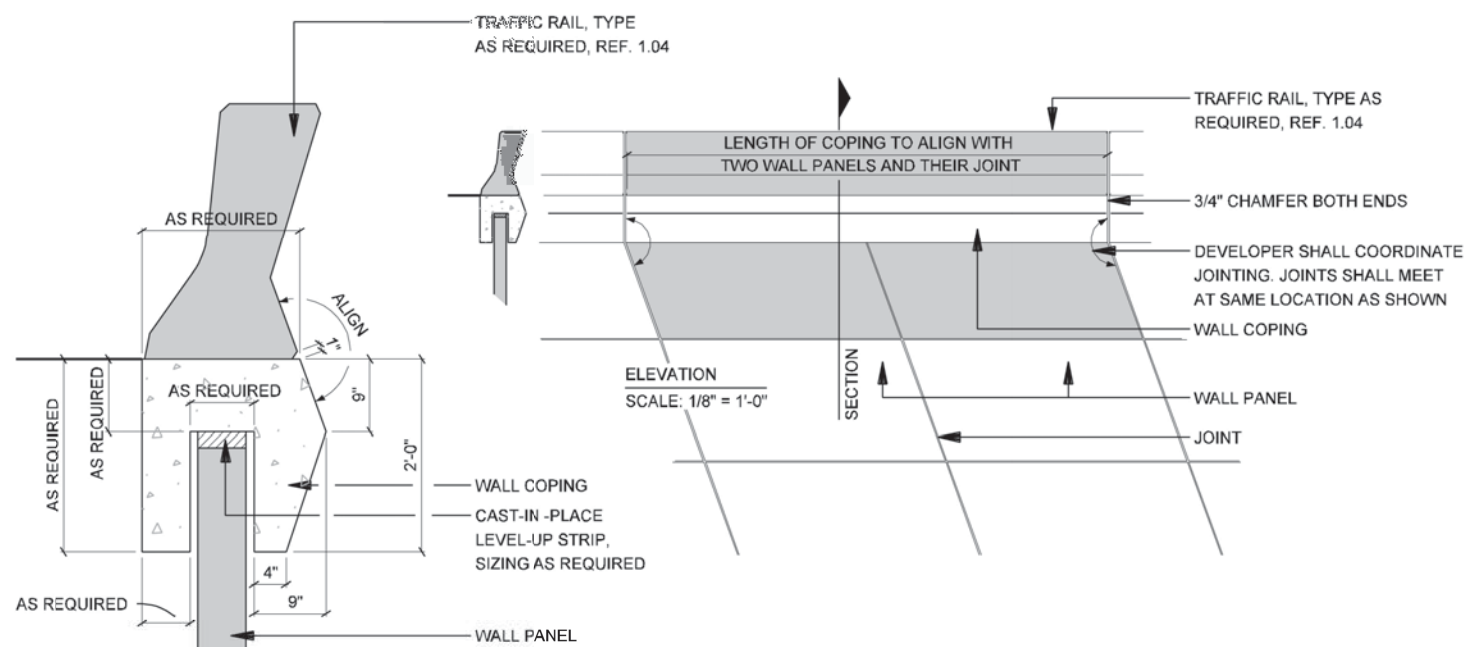
ELEVATION MARKER PANELS OCCUR EVERY 10 FEET IN ELEVATION PER THE NORTH AMERICAN DATUM OF 1983



NOTE: DEVELOPER SHALL CHOOSE ONE CONFIGURATION TYPE FOR CORRIDOR

**SECTION 2 ELEVATION WALL PANEL CONFIGURATION**

SCALE: 1/16"=1'-0"



**SECTION 1 WALL COPING, TYP.**

SCALE: 1/2"=1'-0"

**NOTES:**

- PANELS ARE DESIGNED WITH THE FOLLOWING CRITERIA:
  - DESIGN IS BASED ON A 5' x 10' (50 SF), DEVELOPER SHALL CHOOSE ULTIMATE PANEL SIZE
  - DEVELOPER SHALL CHOOSE EITHER STACKED OR STAGGERED PANELS SYSTEMS
  - PANEL DESIGNED AT 20 DEGREES SKEWED
- DEVELOPER IS RESPONSIBLE FOR PROVIDING DETAILED DRAWINGS THAT FOLLOW DESIGN INTENT IF ANOTHER METHOD OF CONSTRUCTION IS TO BE USED.
- DEVELOPER SHALL ENSURE DIMENSIONS SHOWN ARE ADEQUATE FOR STRUCTURAL STABILITY. ANY MODIFICATIONS WILL REQUIRE APPROVAL.



IH635 MANAGED LANES PROJECT



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007

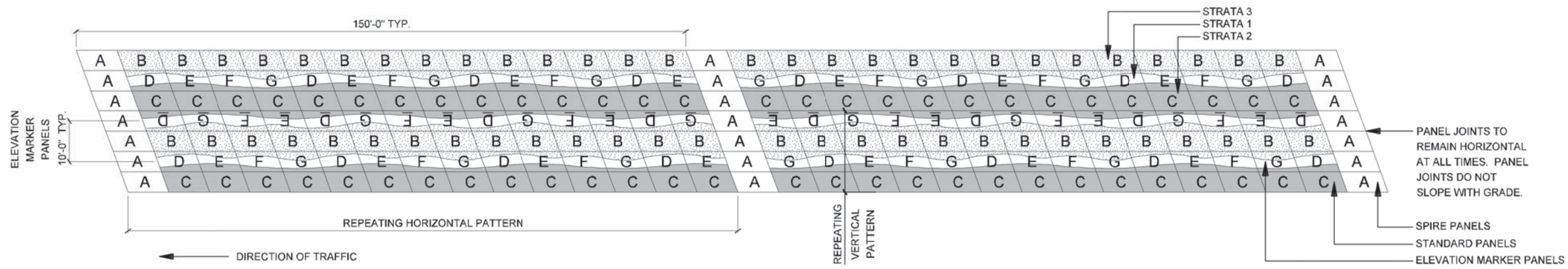
SCALE: AS NOTED

SHEET CONTENTS: IH-635 RETAINING WALLS

ATTACHMENT: 15-1A

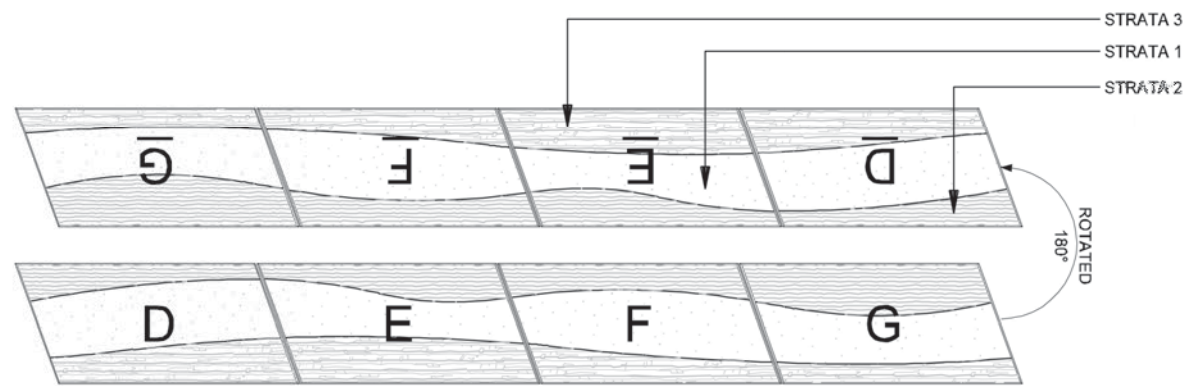
SHEET NUMBER: 2.01





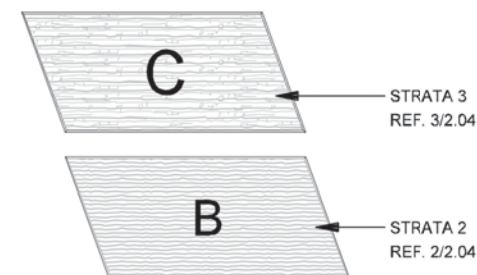
**9 ELEVATION PATTERN CONCEPTS (Stacked MSE wall)**

SCALE: 1"=30'-0"



**3 ELEVATION MARKER PANELS (Stacked Pattern Only)**

SCALE: 1/8"=1'-0"



**2 STANDARD PANELS**

SCALE: 1/8"=1'-0"



**1 SPIRE PANEL**

SCALE: 1/8"=1'-0"

**NOTES:**

1. PANELS ARE DESIGNED WITH THE FOLLOWING CRITERIA:  
 A. DESIGN IS BASED ON A 5' x 10' (50 SF), DEVELOPER SHALL CHOOSE ULTIMATE PANEL SIZE  
 B. DEVELOPER SHALL CHOOSE EITHER STACKED OR STAGGERED PANELS SYSTEMS  
 C. PANEL DESIGNED AT 20 DEGREES SKEWED
2. DEVELOPER IS RESPONSIBLE FOR PROVIDING DETAILED DRAWINGS THAT FOLLOW DESIGN INTENT IF ANOTHER METHOD OF CONSTRUCTION IS TO BE USED.
3. DEVELOPER SHALL ENSURE DIMENSIONS SHOWN ARE ADEQUATE FOR STRUCTURAL STABILITY. ANY MODIFICATIONS WILL REQUIRE APPROVAL.



IH635 MANAGED LANES PROJECT

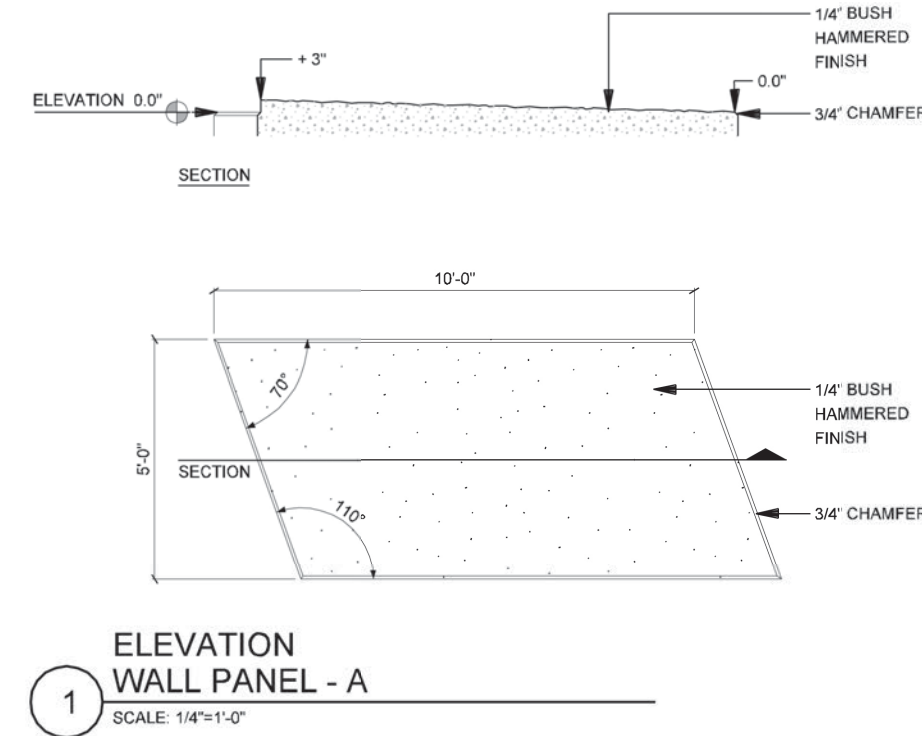
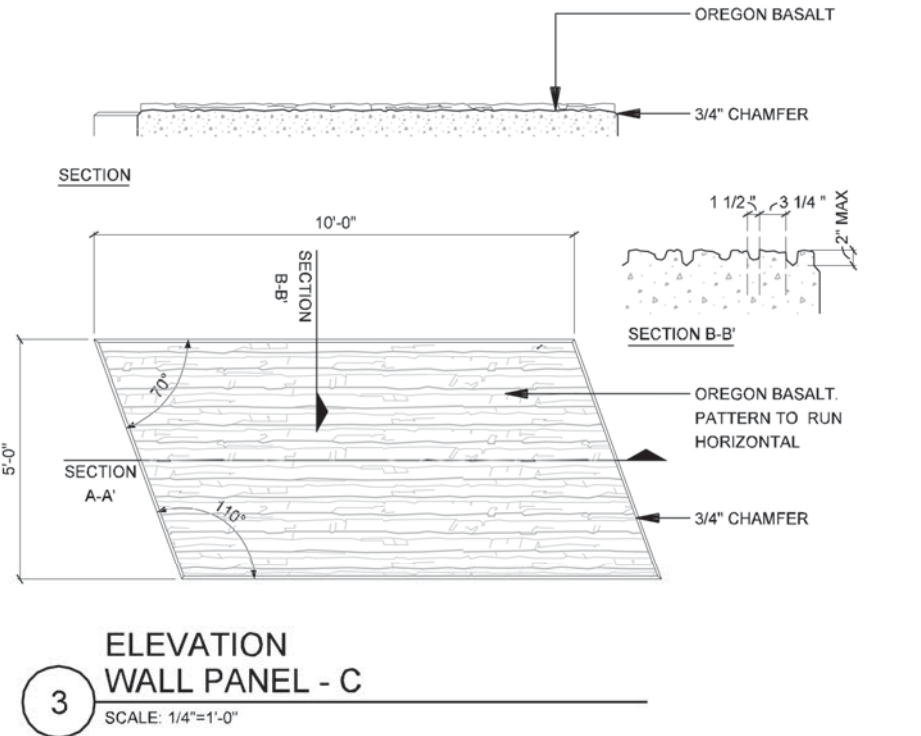
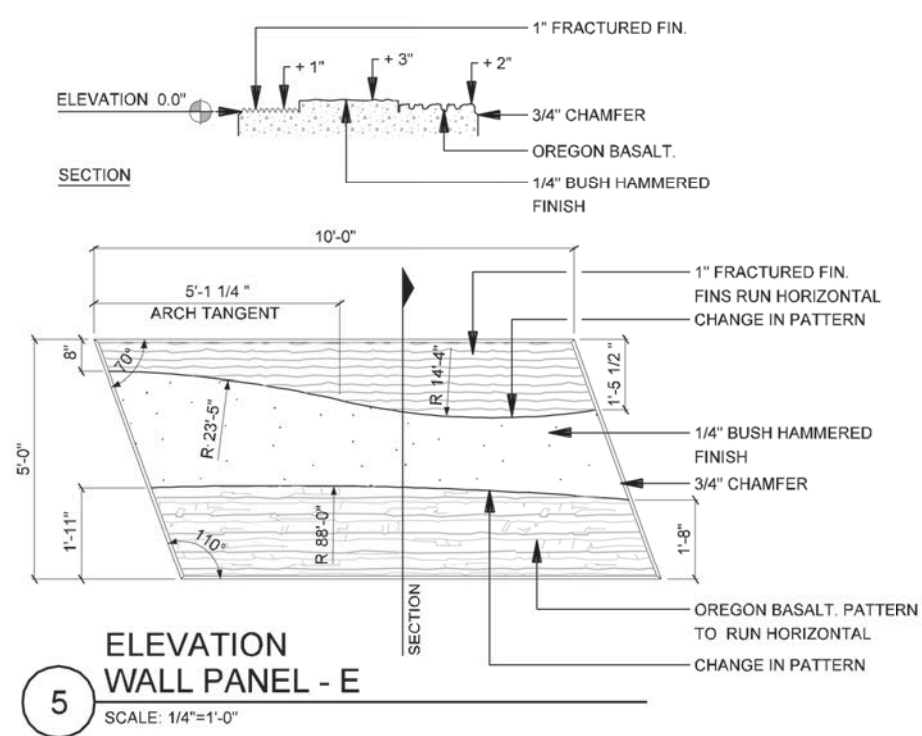
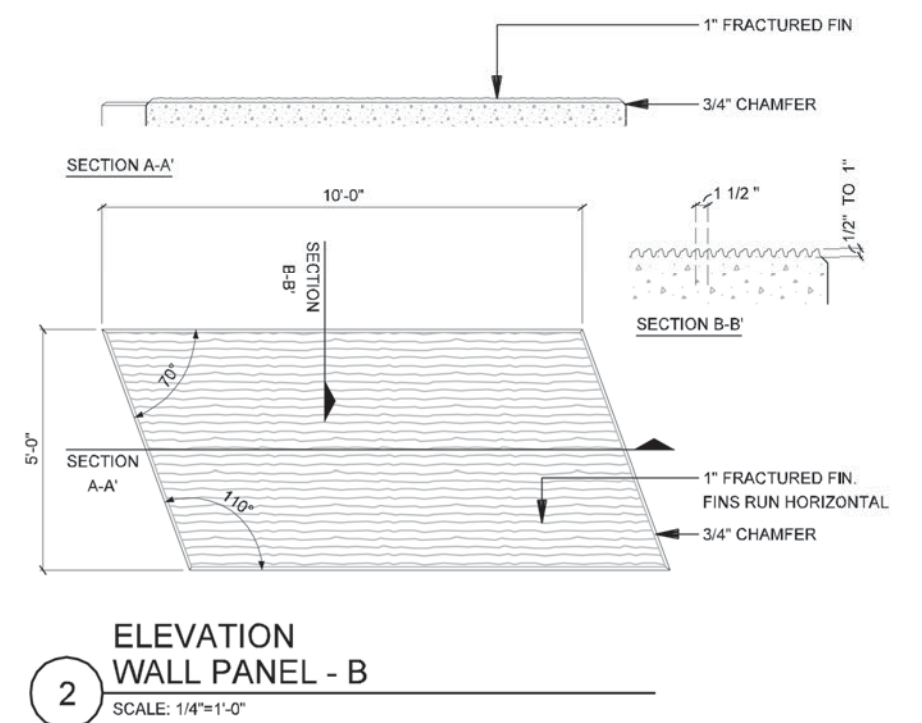
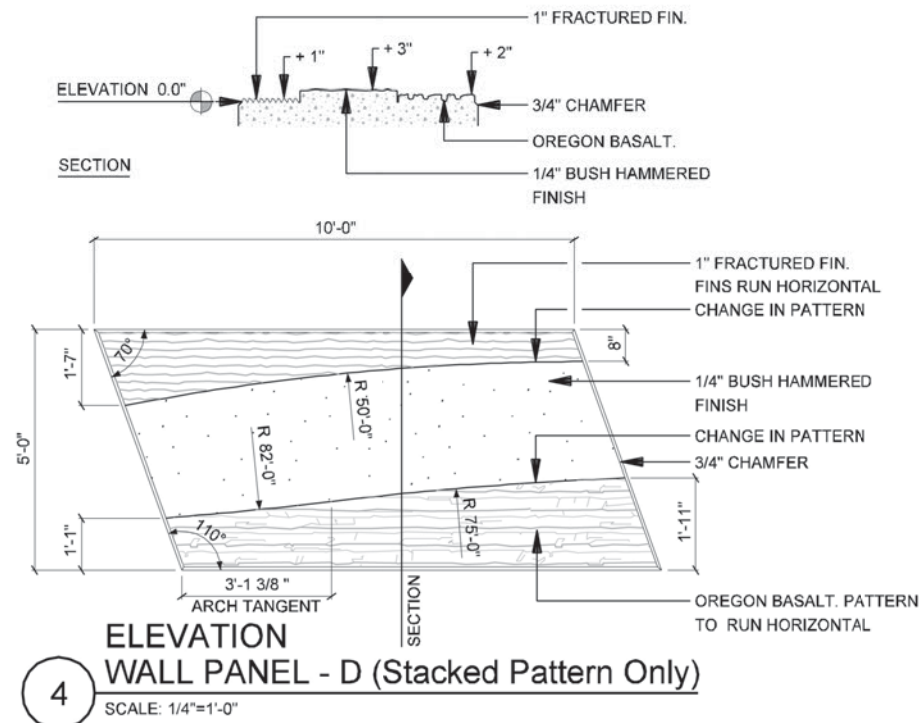
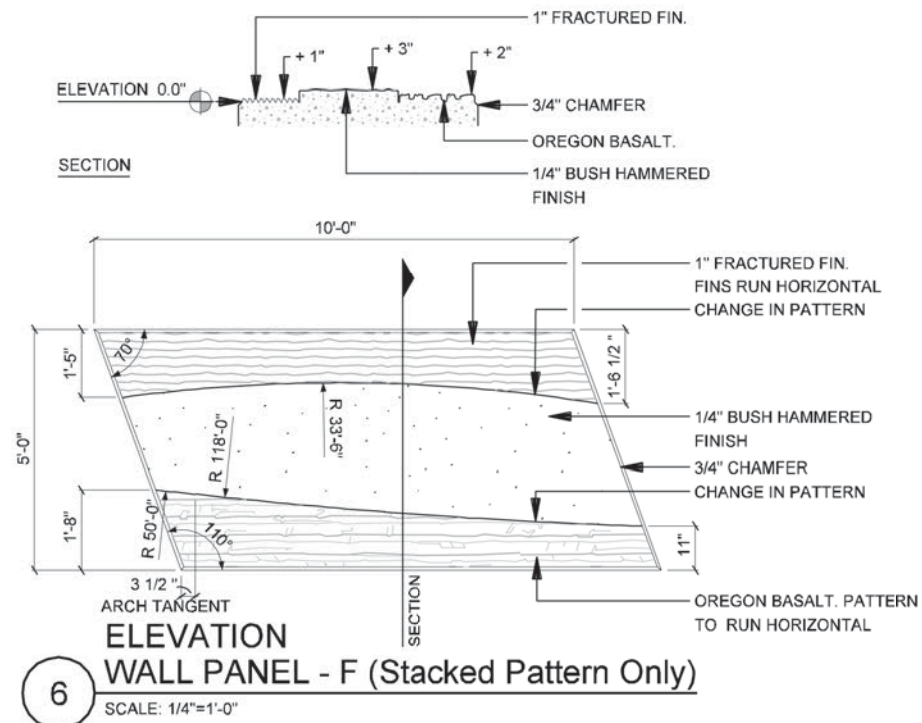


NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: IH-635 RETAINING WALLS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>2.02</b>
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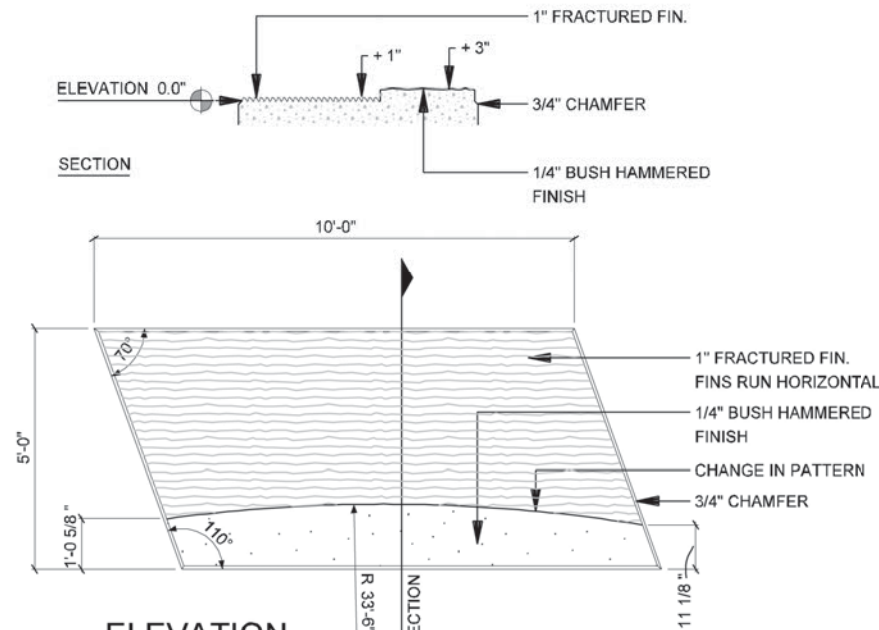
**NOTES:**

- PANELS ARE DESIGNED WITH THE FOLLOWING CRITERIA:  
 A. DESIGN IS BASED ON A 5' x 10' (50 SF), DEVELOPER SHALL CHOOSE ULTIMATE PANEL SIZE  
 B. DEVELOPER SHALL CHOOSE EITHER STACKED OR STAGGERED PANELS SYSTEMS  
 C. PANEL DESIGNED AT 20 DEGREES SKEWED
- DEVELOPER IS RESPONSIBLE FOR PROVIDING DETAILED DRAWINGS THAT FOLLOW DESIGN INTENT IF ANOTHER METHOD OF CONSTRUCTION IS TO BE USED.
- DEVELOPER SHALL ENSURE DIMENSIONS SHOWN ARE ADEQUATE FOR STRUCTURAL STABILITY. ANY MODIFICATIONS WILL REQUIRE APPROVAL.

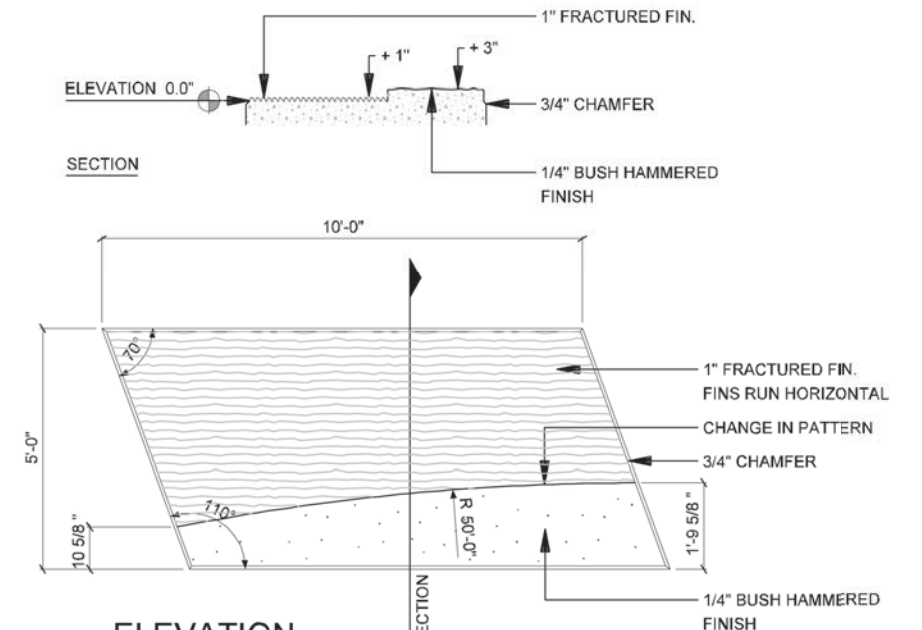


NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

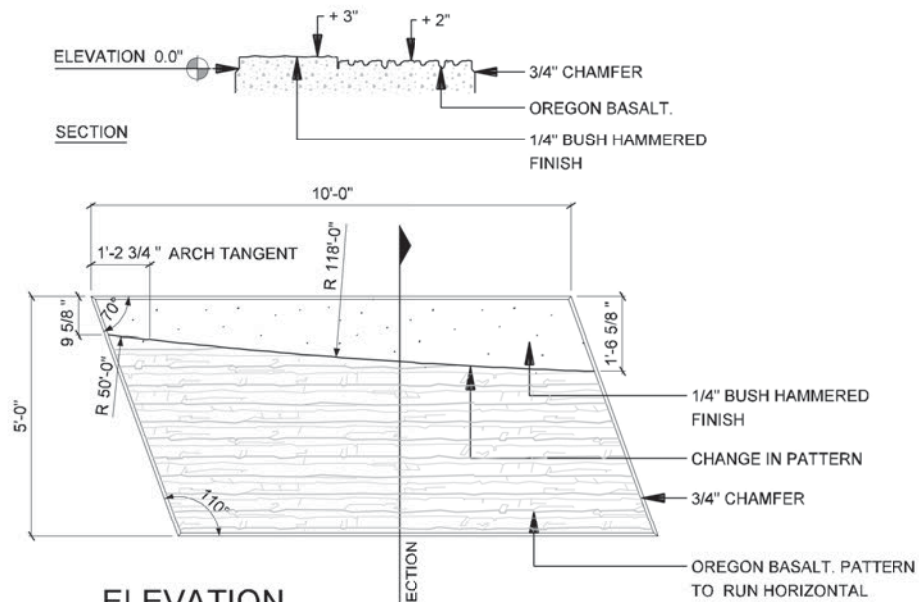
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: IH-635 RETAINING WALLS	ATTACHMENT: 15-1A	SHEET NUMBER: 2.04
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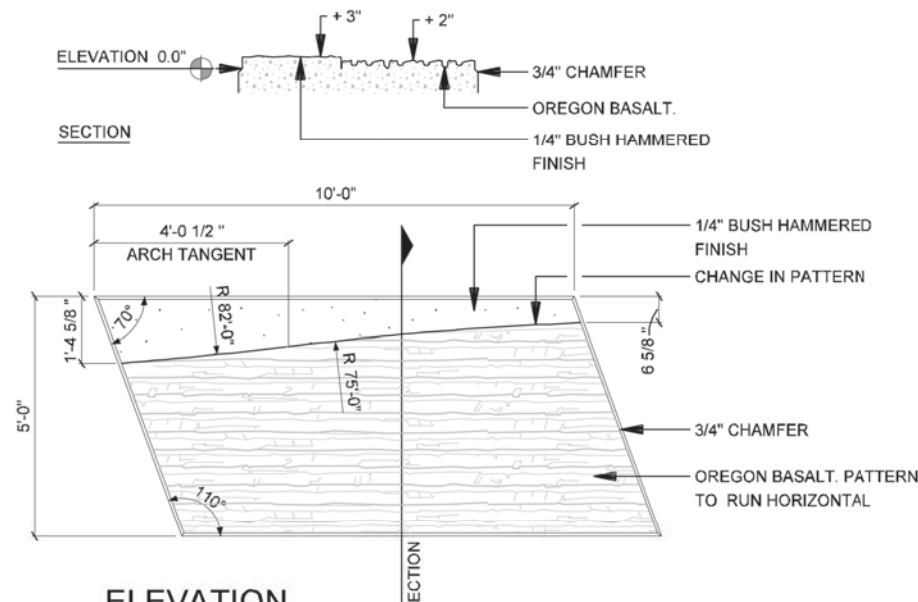
**4** ELEVATION WALL PANEL - J (Staggered Pattern Only)  
SCALE: 1/4"=1'-0"



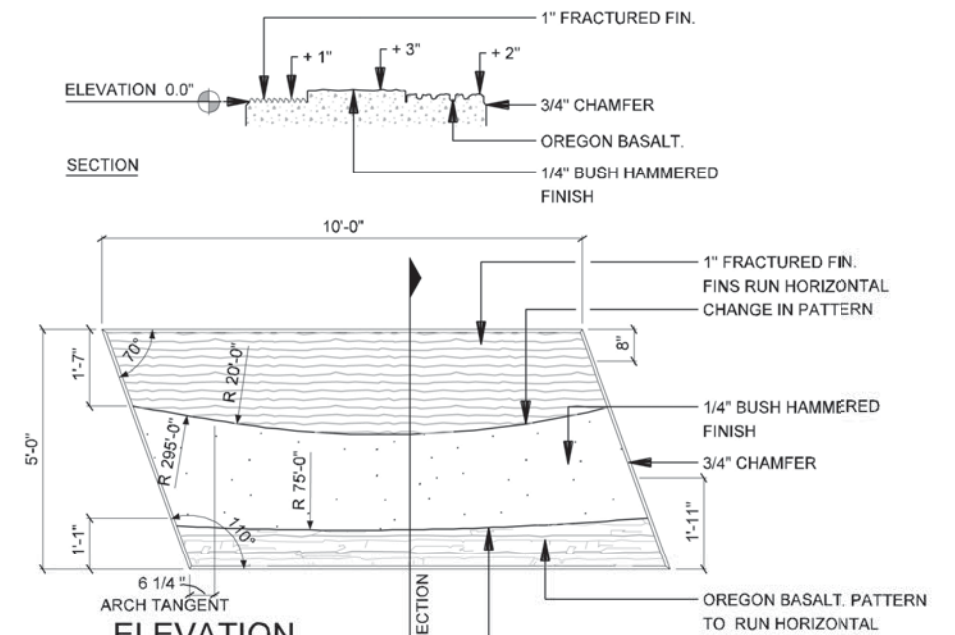
**2** ELEVATION WALL PANEL - H (Staggered Pattern Only)  
SCALE: 1/4"=1'-0"



**5** ELEVATION WALL PANEL - K (Staggered Pattern Only)  
SCALE: 1/4"=1'-0"



**3** ELEVATION WALL PANEL - I (Staggered Pattern Only)  
SCALE: 1/4"=1'-0"



**1** ELEVATION WALL PANEL - G  
SCALE: 1/4"=1'-0"

**NOTES:**

- PANELS ARE DESIGNED WITH THE FOLLOWING CRITERIA:  
A. DESIGN IS BASED ON A 5' x 10' (50 SF), DEVELOPER SHALL CHOOSE ULTIMATE PANEL SIZE  
B. DEVELOPER SHALL CHOOSE EITHER STACKED OR STAGGERED PANELS SYSTEMS  
C. PANEL DESIGNED AT 20 DEGREES SKEWED
- DEVELOPER IS RESPONSIBLE FOR PROVIDING DETAILED DRAWINGS THAT FOLLOW DESIGN INTENT IF ANOTHER METHOD OF CONSTRUCTION IS TO BE USED.
- DEVELOPER SHALL ENSURE DIMENSIONS SHOWN ARE ADEQUATE FOR STRUCTURAL STABILITY. ANY MODIFICATIONS WILL REQUIRE APPROVAL.



IH635 MANAGED LANES PROJECT



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

IH-635 RETAINING WALLS

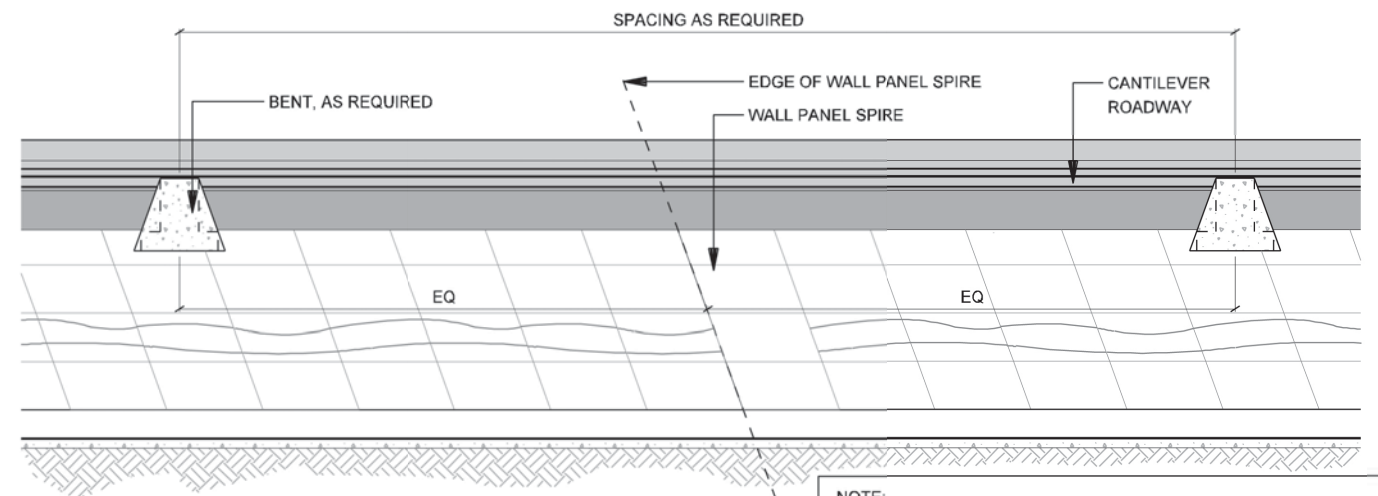
ATTACHMENT:

15-1A

SHEET NUMBER:

2.05





**1 U-WALL ELEVATION**  
SCALE: 1"=20'-0"

**NOTE:**  
WALL PANEL SPIRE ALIGNMENT SHALL CONFORM TO DETAIL 1/2.00.  
THE 150'-0" TYPICAL SPACING SHALL GOVERN THE GENERAL LOCATION OF THE SPIRE WITH FINE ADJUSTMENTS MADE TO INCORPORATE EQUAL SPACING BETWEEN BENTS

**NOTES:**

1. PANELS ARE DESIGNED WITH THE FOLLOWING CRITERIA:  
A. DESIGN IS BASED ON A 5' x 10' (50 SF), DEVELOPER SHALL CHOOSE ULTIMATE PANEL SIZE  
B. DEVELOPER SHALL CHOOSE EITHER STACKED OR STAGGERED PANELS SYSTEMS  
C. PANEL DESIGNED AT 20 DEGREES SKEWED
2. DEVELOPER IS RESPONSIBLE FOR PROVIDING DETAILED DRAWINGS THAT FOLLOW DESIGN INTENT IF ANOTHER METHOD OF CONSTRUCTION IS TO BE USED.
3. DEVELOPER SHALL ENSURE DIMENSIONS SHOWN ARE ADEQUATE FOR STRUCTURAL STABILITY. ANY MODIFICATIONS WILL REQUIRE APPROVAL.

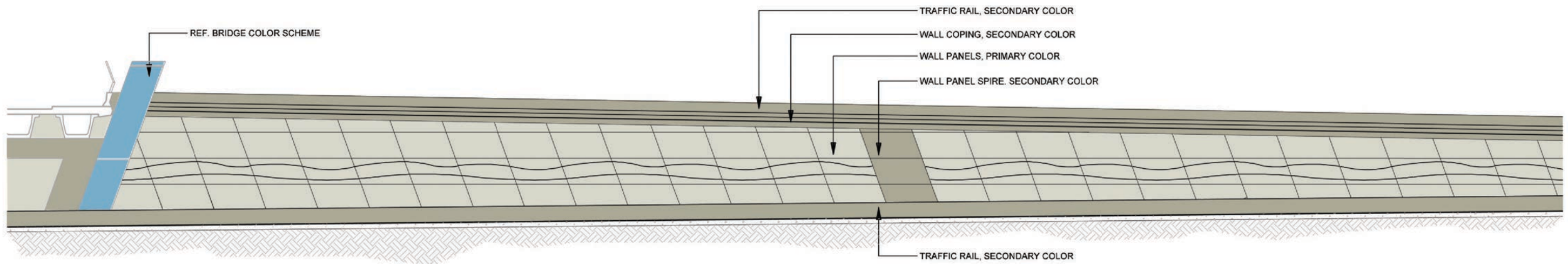


**IH635 MANAGED LANES PROJECT**



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

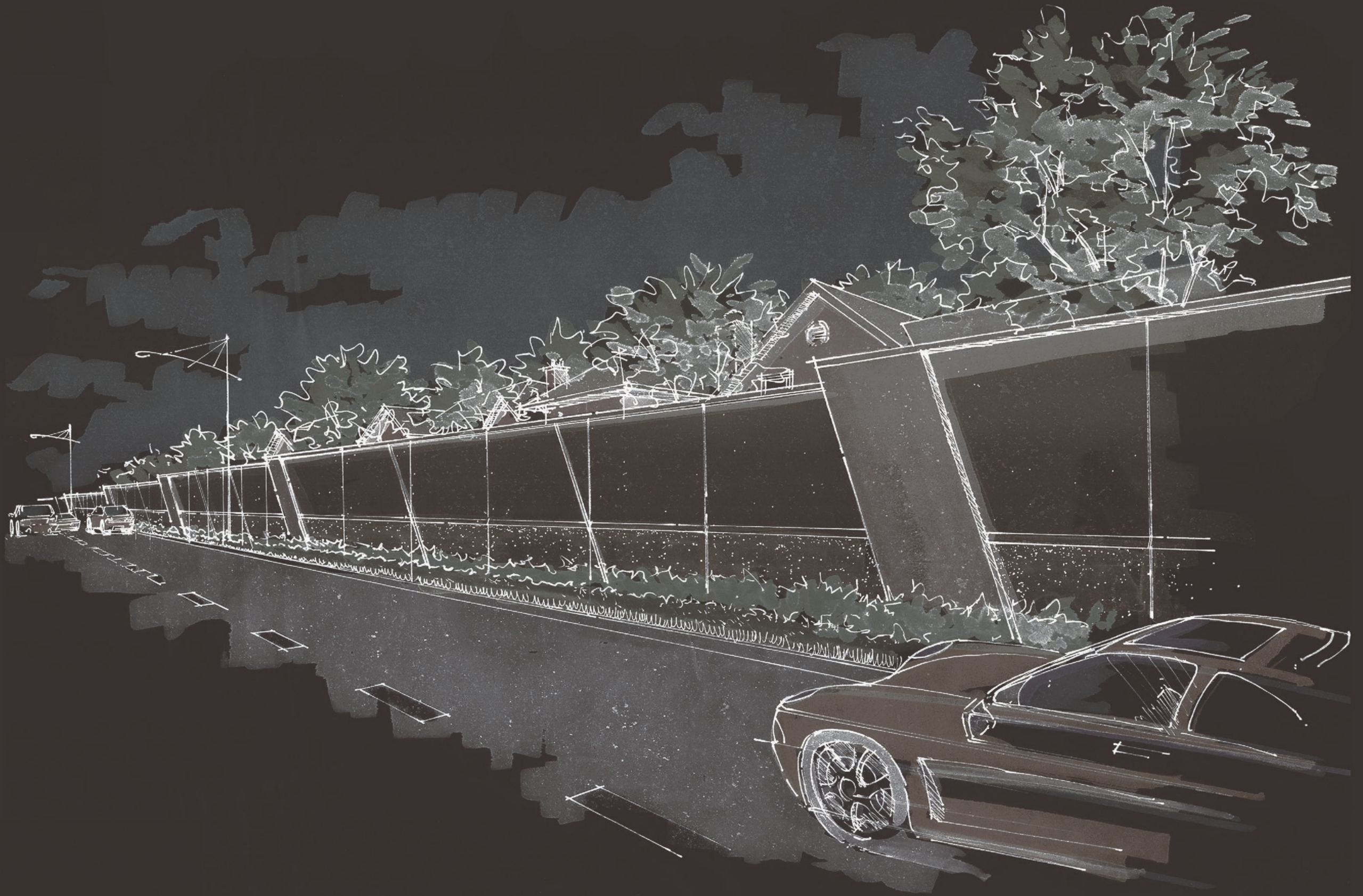
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: IH-635 RETAINING WALLS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>2.06</b>
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**1** ELEVATION  
RETAINING WALL - COLOR CONCEPT  
SCALE: 1"=20'-0"

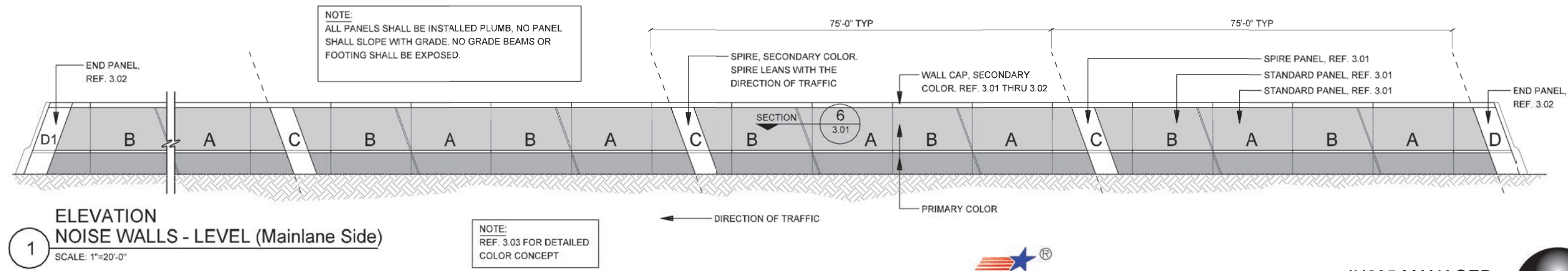
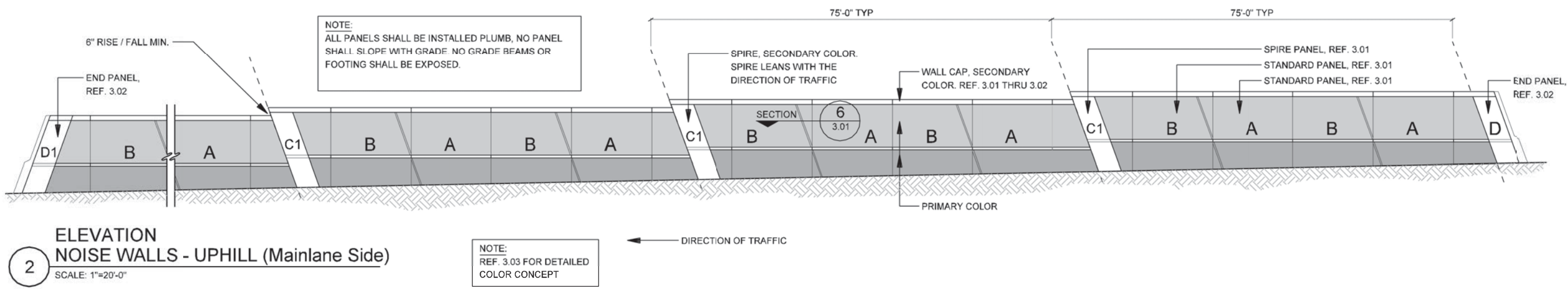
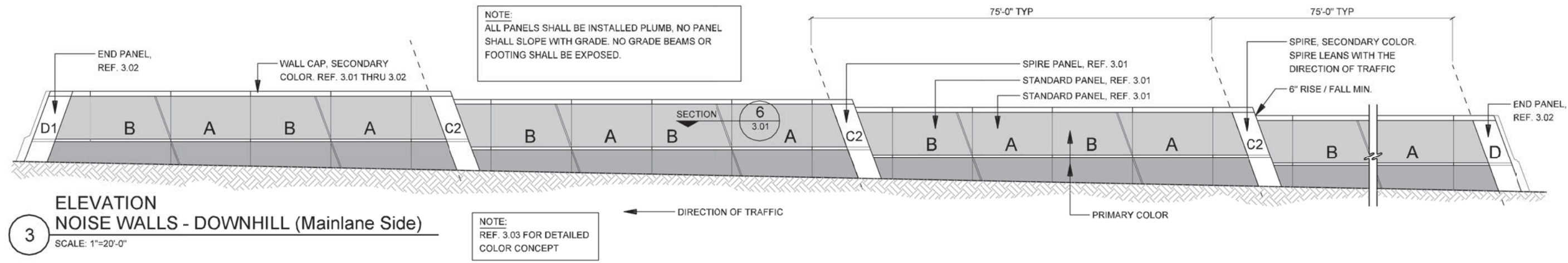
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: IH-635 RETAINING WALLS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>2.07</b>
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NOISE WALLS

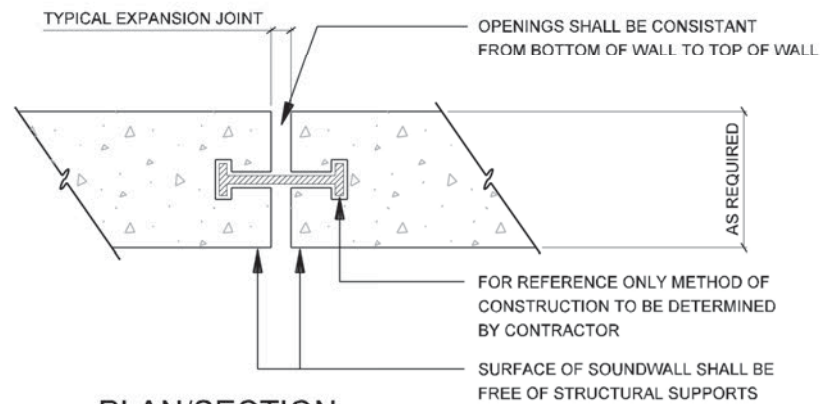




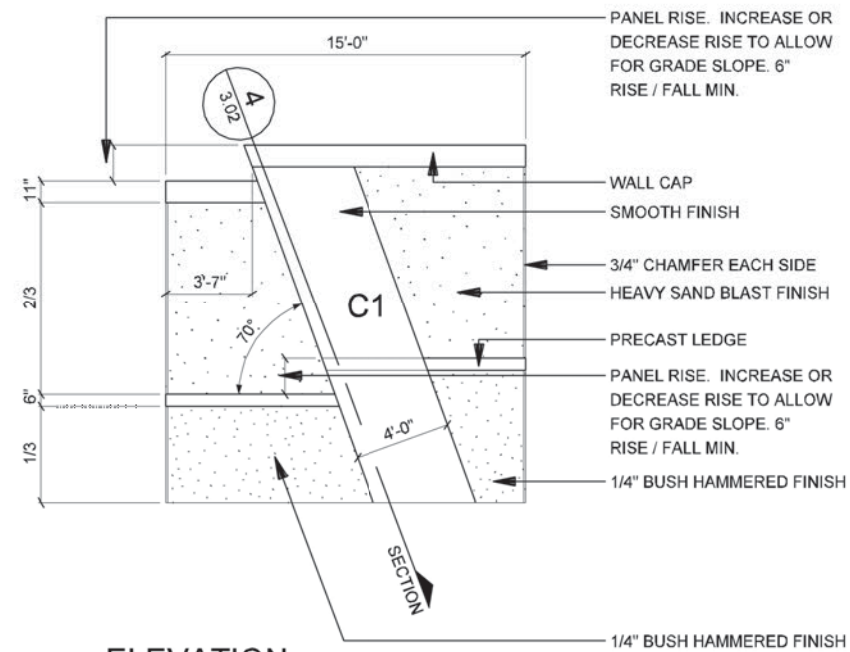
NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: NOISE WALLS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>3.00</b>
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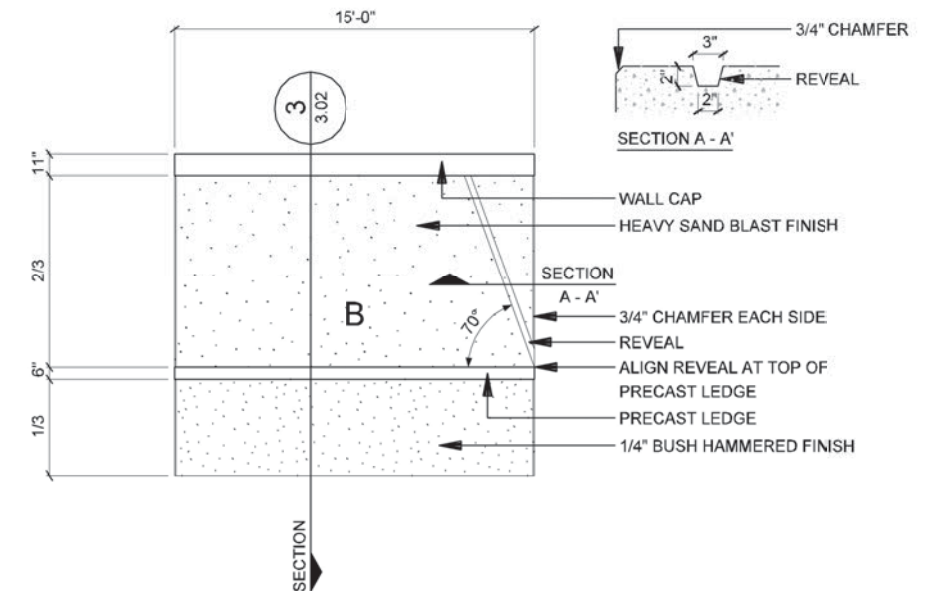




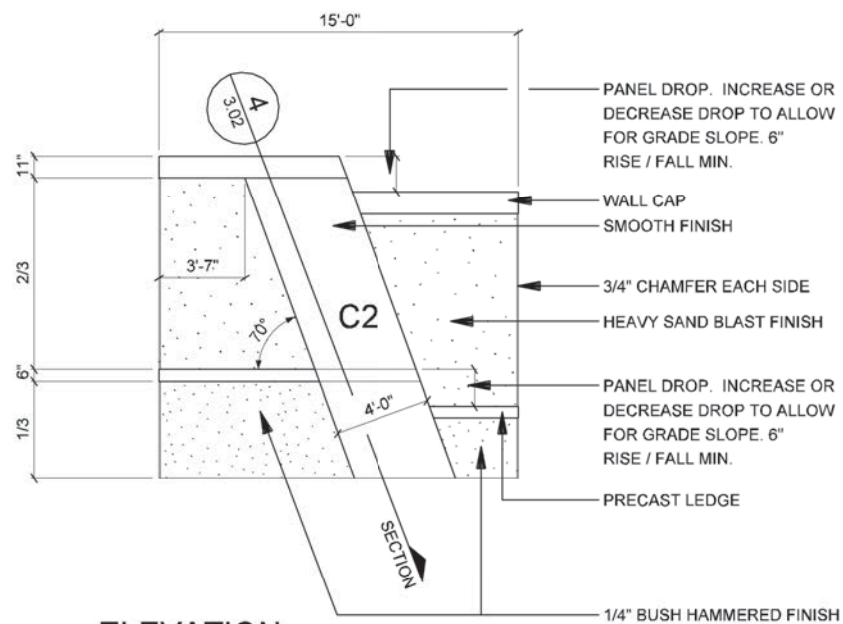
**6 PLAN/SECTION  
PANEL CONNECTION**  
SCALE: 1"=1'-0"



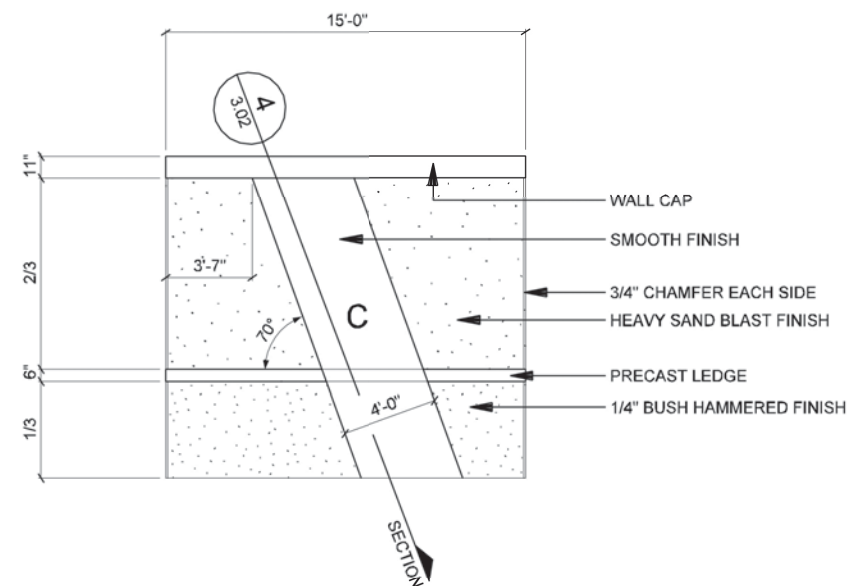
**4 ELEVATION  
SPIRE WALL PANEL - C1**  
SCALE: 1/8"=1'-0"



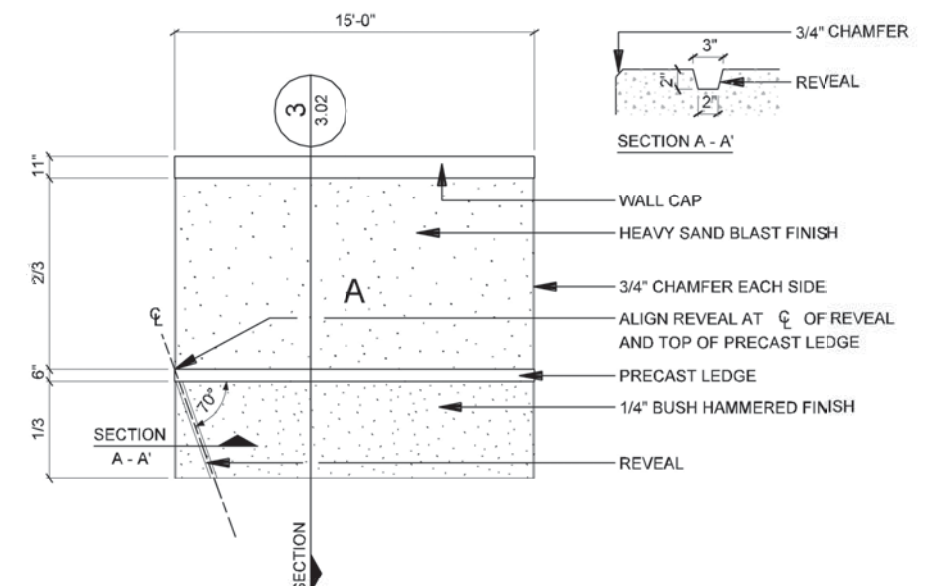
**2 ELEVATION  
STANDARD WALL PANEL - B**  
SCALE: 1/8"=1'-0"



**5 ELEVATION  
SPIRE WALL PANEL - C2**  
SCALE: 1/8"=1'-0"

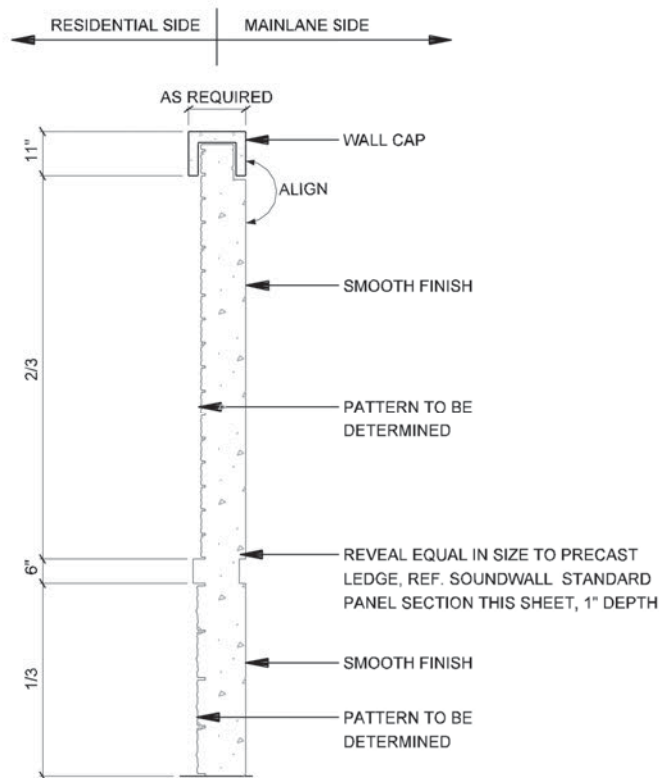


**3 ELEVATION  
SPIRE WALL PANEL - C**  
SCALE: 1/8"=1'-0"

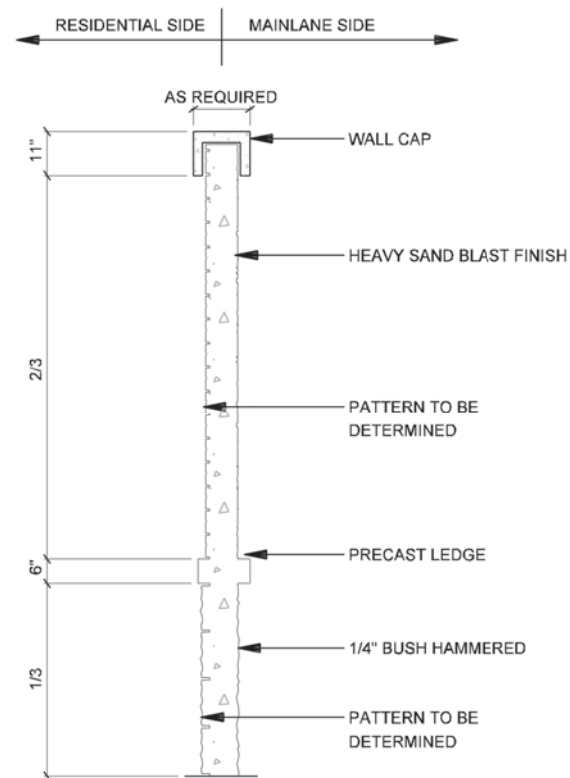


**1 ELEVATION  
STANDARD WALL PANEL - A**  
SCALE: 1/8"=1'-0"

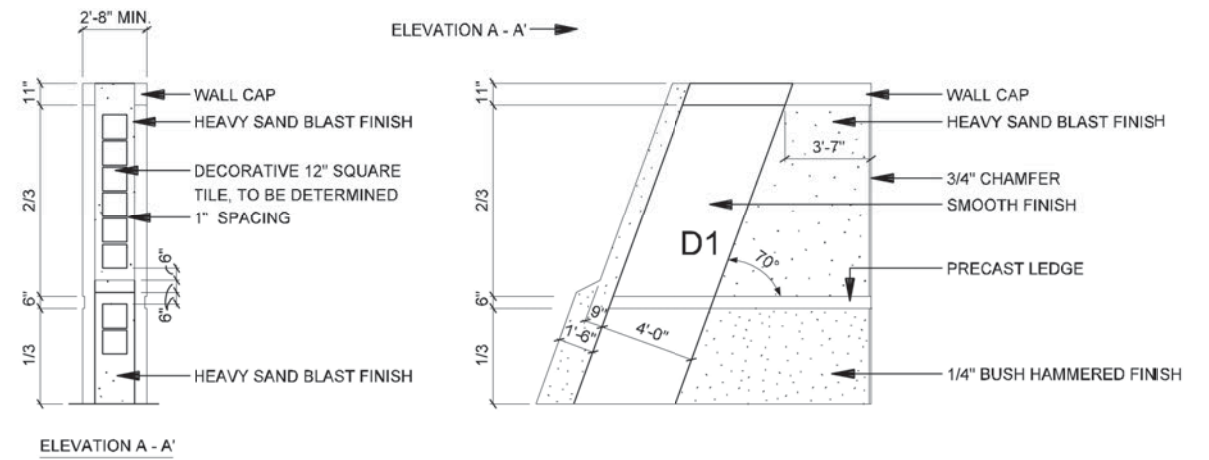
**NOTE:**  
 DEVELOPER SHALL USE DESIGN SHOWN FOR MAINLANE SIDE OF NOISE WALL. DEVELOPER SHALL DETERMINE DESIGN FOR RESIDENTIAL SIDE BASED ON PUBLIC INPUT AND AGREEMENT. RID 3.01 REPRESENTS POTENTIAL / DESIRED LOOK FOR RESIDENTIAL SIDE



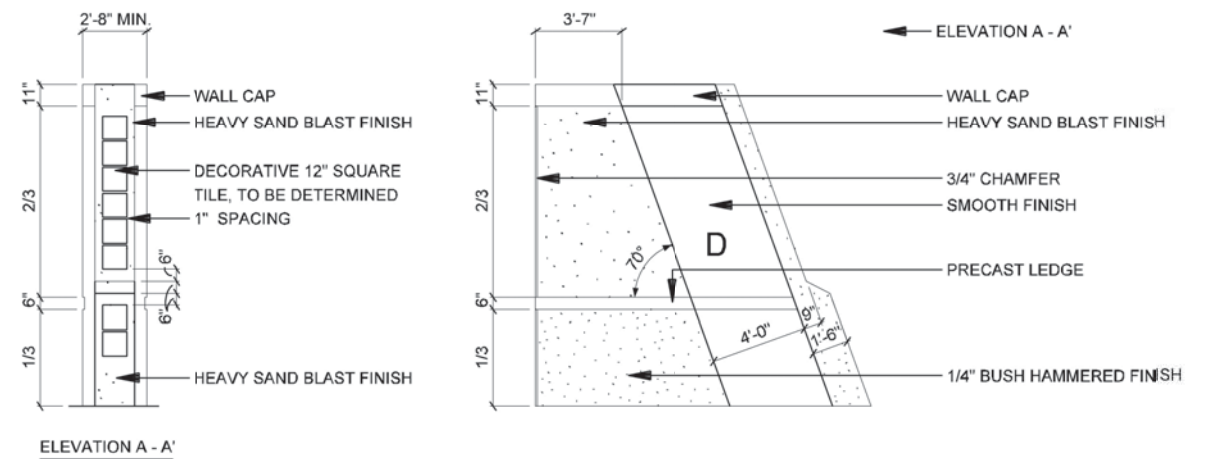
**4** SECTION NOISE WALLS SPIRE PANEL  
 SCALE: 1/4"=1'-0"



**3** SECTION NOISE WALLS STANDARD PANEL  
 SCALE: 1/4"=1'-0"

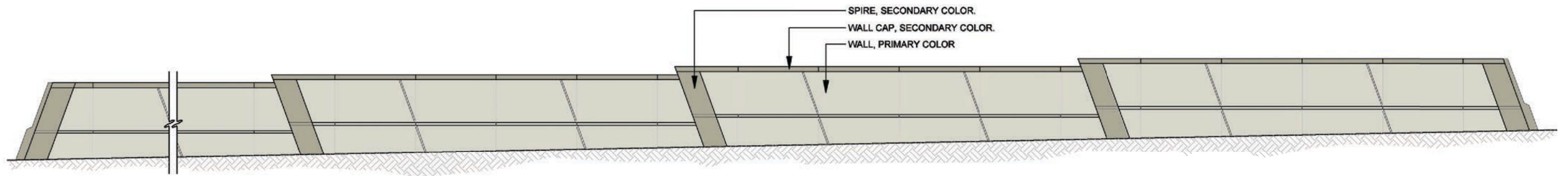


**2** ELEVATION STANDARD WALL PANEL - D1 (Mirror of Panel D)  
 SCALE: 1/8"=1'-0"



**1** ELEVATION STANDARD WALL PANEL - D  
 SCALE: 1/8"=1'-0"

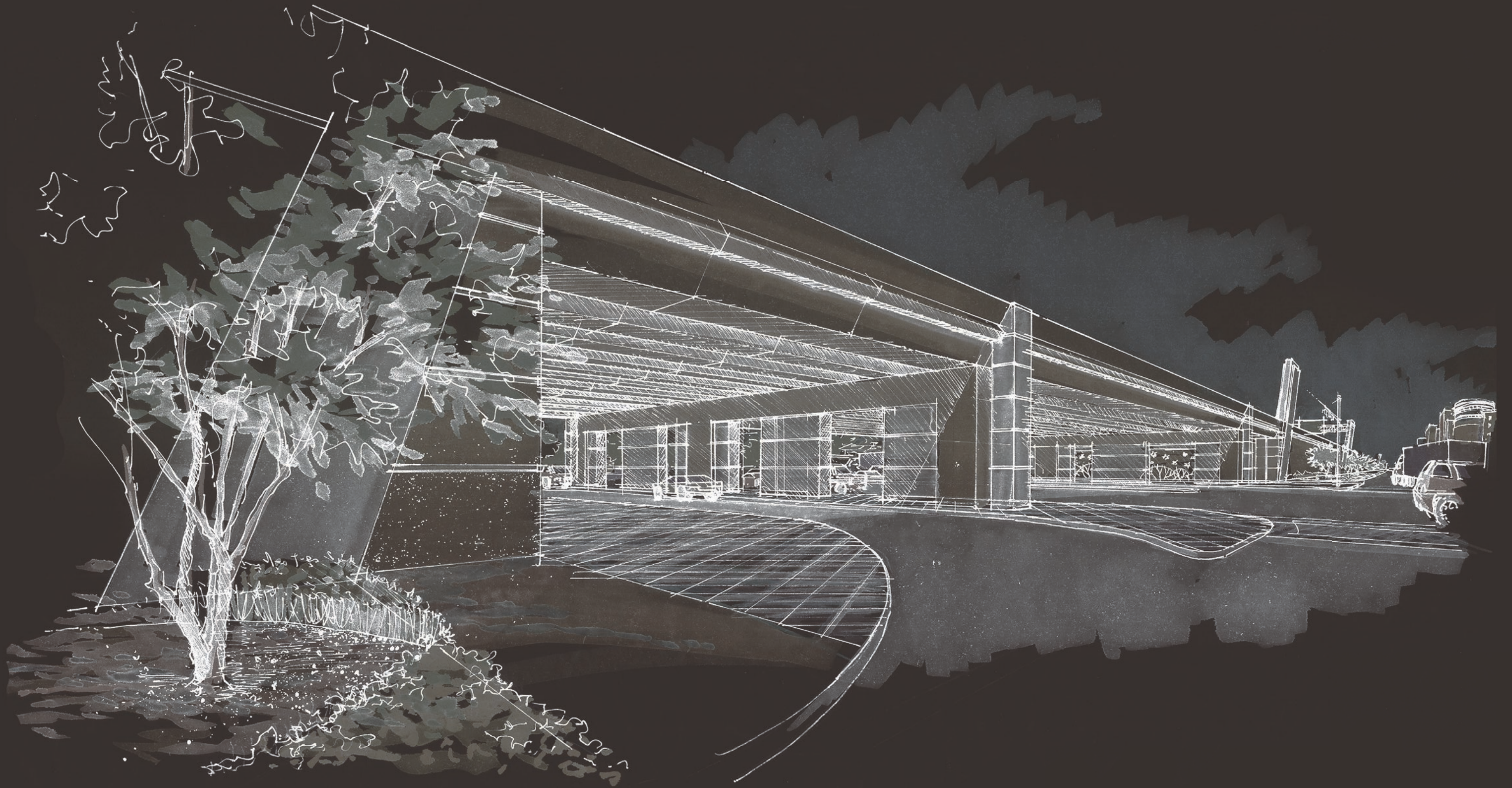




**1** ELEVATION  
 NOISE WALLS - COLOR CONCEPT  
 SCALE: 1"=20'-0"

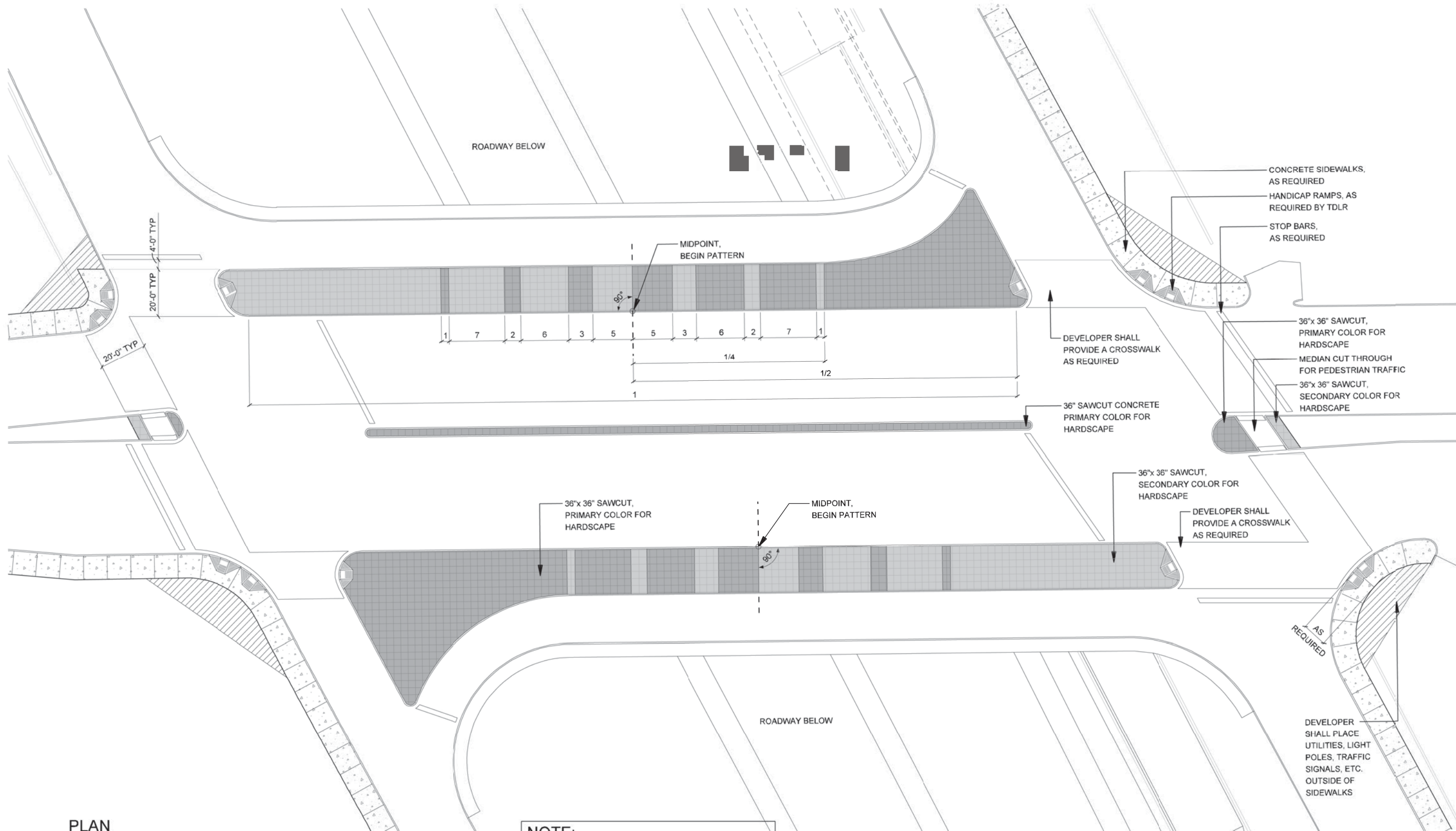
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: NOISE WALLS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>3.03</b>
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HARDSCAPE





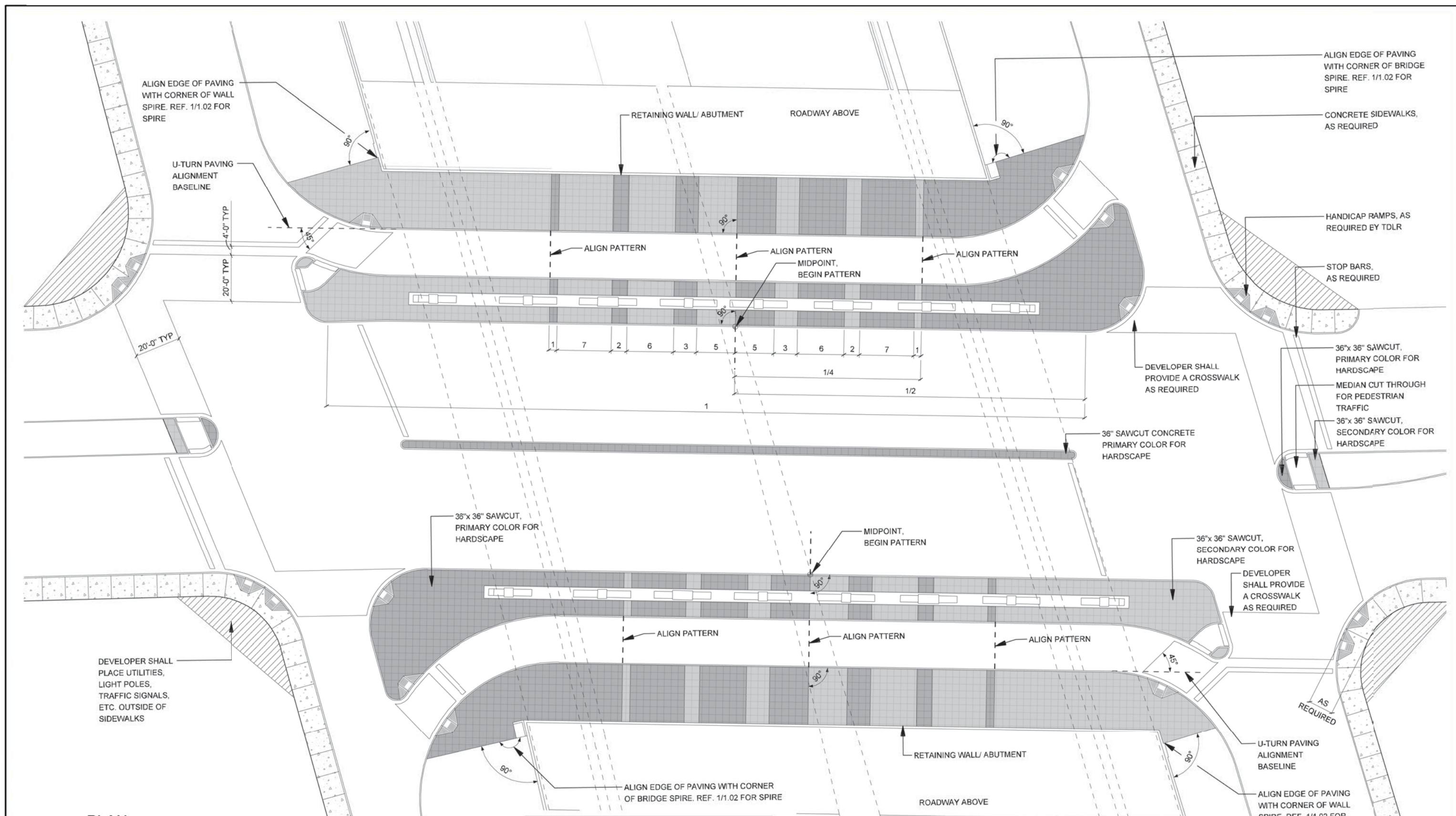
1 PLAN  
PAVING - CROSS STREET UNDERPASS CONDITION  
SCALE: 1"=40'-0"

NOTE:  
REF. 0.03 FOR PAVING COLOR



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: HARDSCAPE PLAN	ATTACHMENT: 15-1A	SHEET NUMBER: 4.00
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**1 PLAN PAVING - CROSS STREET OVERPASS CONDITION**  
 SCALE: 1"=40'-0"

**NOTE:**  
 REF. 0.03 FOR PAVING COLOR



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

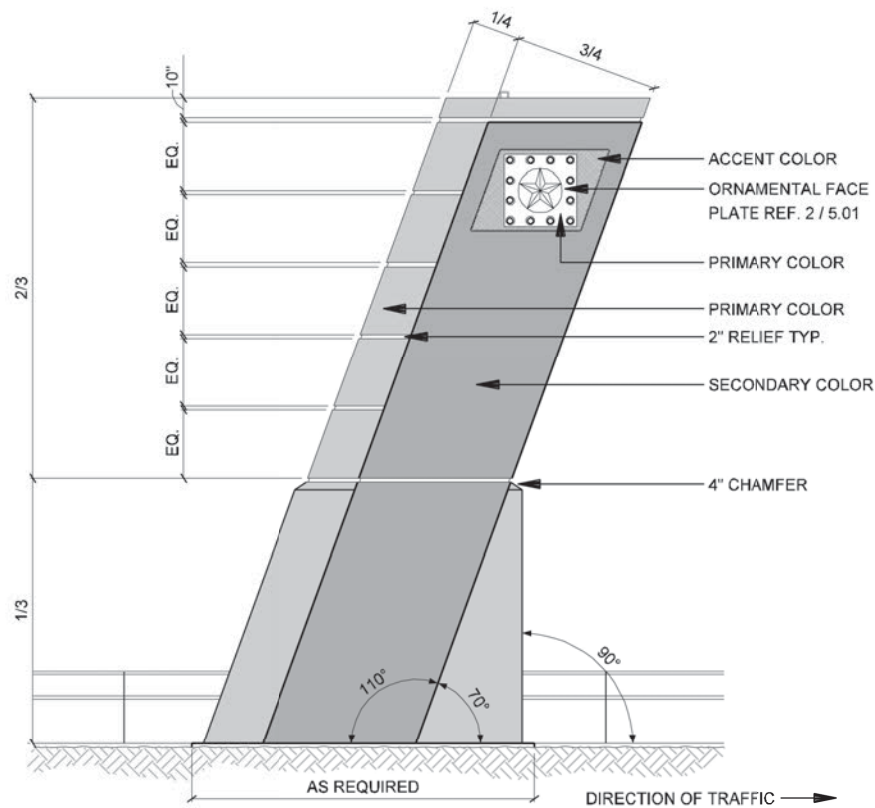
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: HARDSCAPE PLAN	ATTACHMENT: 15-1A	SHEET NUMBER: <b>4.01</b>
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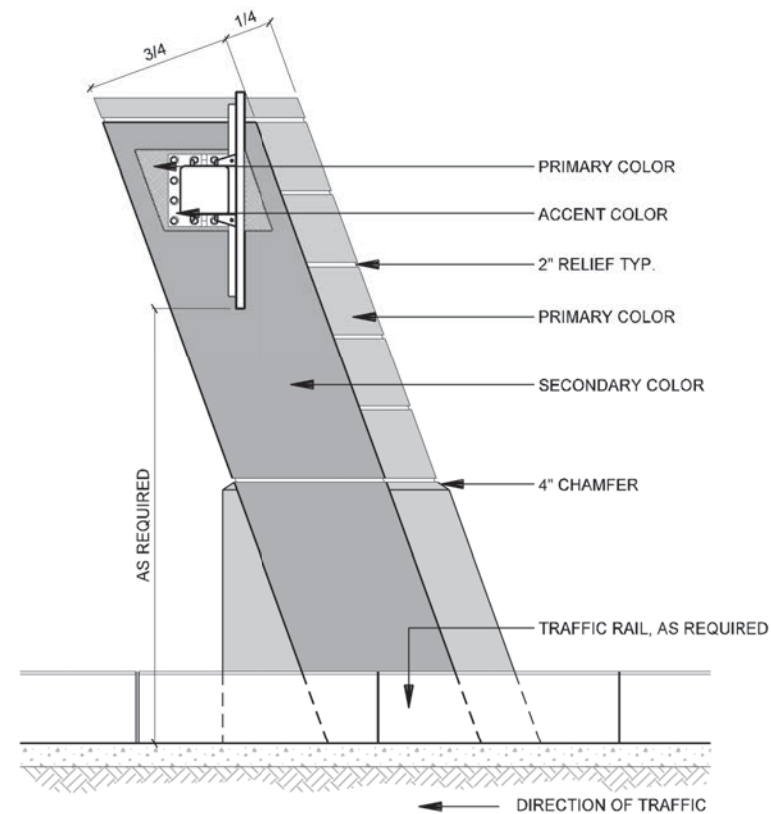


SIGNAGE





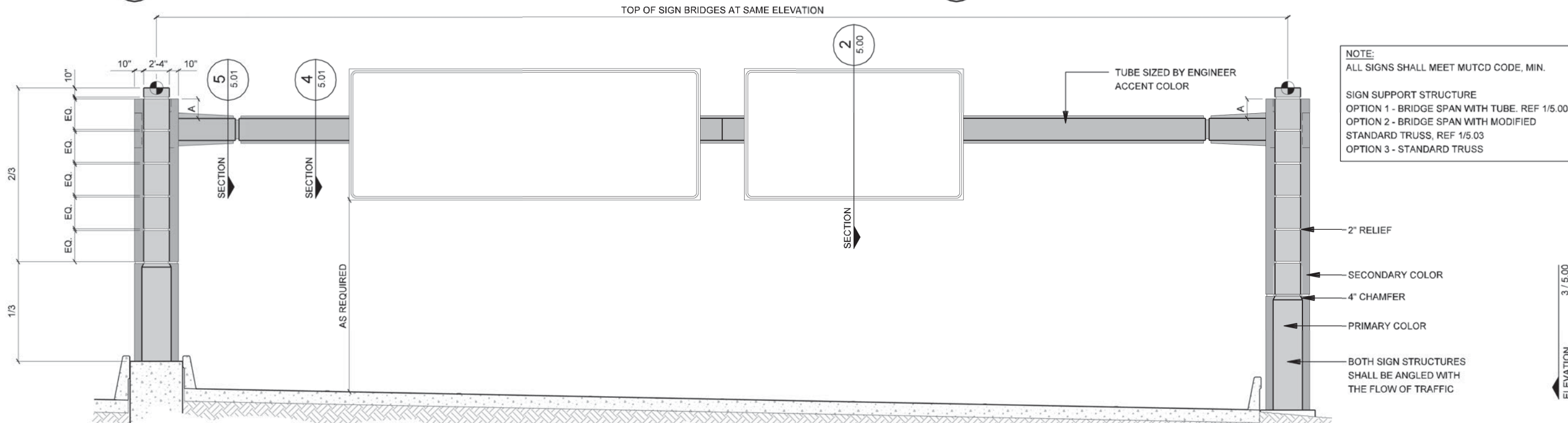
**3** ELEVATION  
SIGN BRIDGE W/TUBE - SIDE VIEW  
SCALE: 1/8"=1'-0"



**2** ELEVATION  
SIGN BRIDGE W/TUBE - SIDE VIEW  
SCALE: 1/8"=1'-0"

**NOTE:**  
DEVELOPER SHALL CHOOSE ONE OF THE FOLLOWING FOR ALL CANTILEVERED & SIGN BRIDGE SUPPORT SYSTEMS. COLUMNS SHALL REMAIN AS SHOWN FOR ALL SIGNS.

1. SHEETS 5.00, 5.01, & 5.02 SHOW MONO TUBE.
2. SHEET 5.03 SHOWS A MOD. STANDARD TRUSS.



**1** ELEVATION  
BRIDGE SPAN W/TUBE - FRONT VIEW  
SCALE: 1"=10'-0"

**NOTE:**  
REF. 5.04 FOR DETAILED COLOR CONCEPT

**NOTE:**  
ALL SIGNS SHALL MEET MUTCD CODE, MIN.

SIGN SUPPORT STRUCTURE  
OPTION 1 - BRIDGE SPAN WITH TUBE. REF 1/5.00  
OPTION 2 - BRIDGE SPAN WITH MODIFIED STANDARD TRUSS, REF 1/5.03  
OPTION 3 - STANDARD TRUSS



IH635 MANAGED LANES PROJECT



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

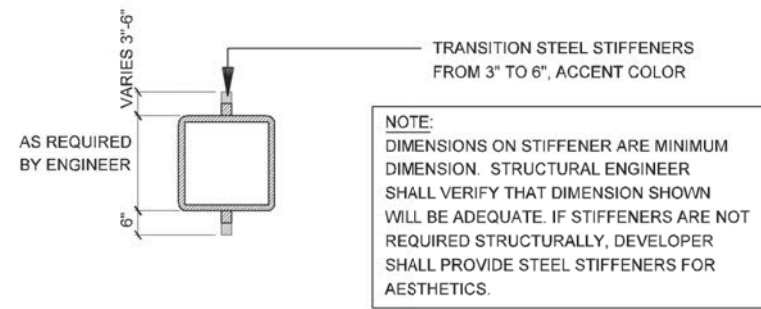
SCALE:  
AS NOTED

SHEET CONTENTS:  
SIGN BRIDGE

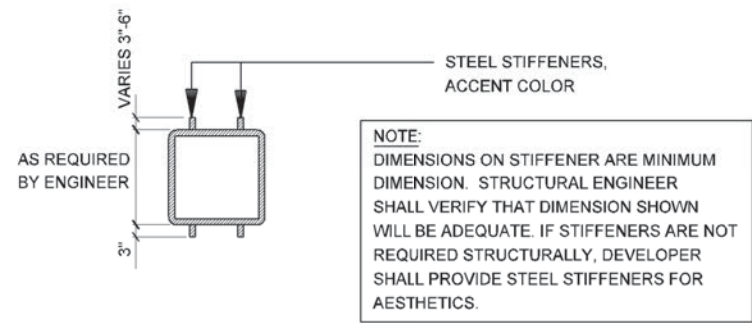
ATTACHMENT:  
15-1A

SHEET NUMBER:  
**5.00**

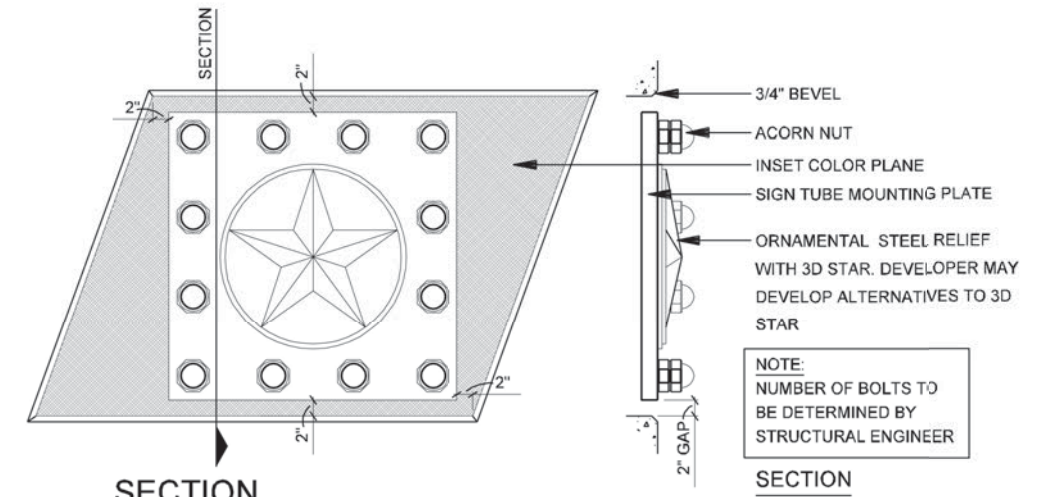




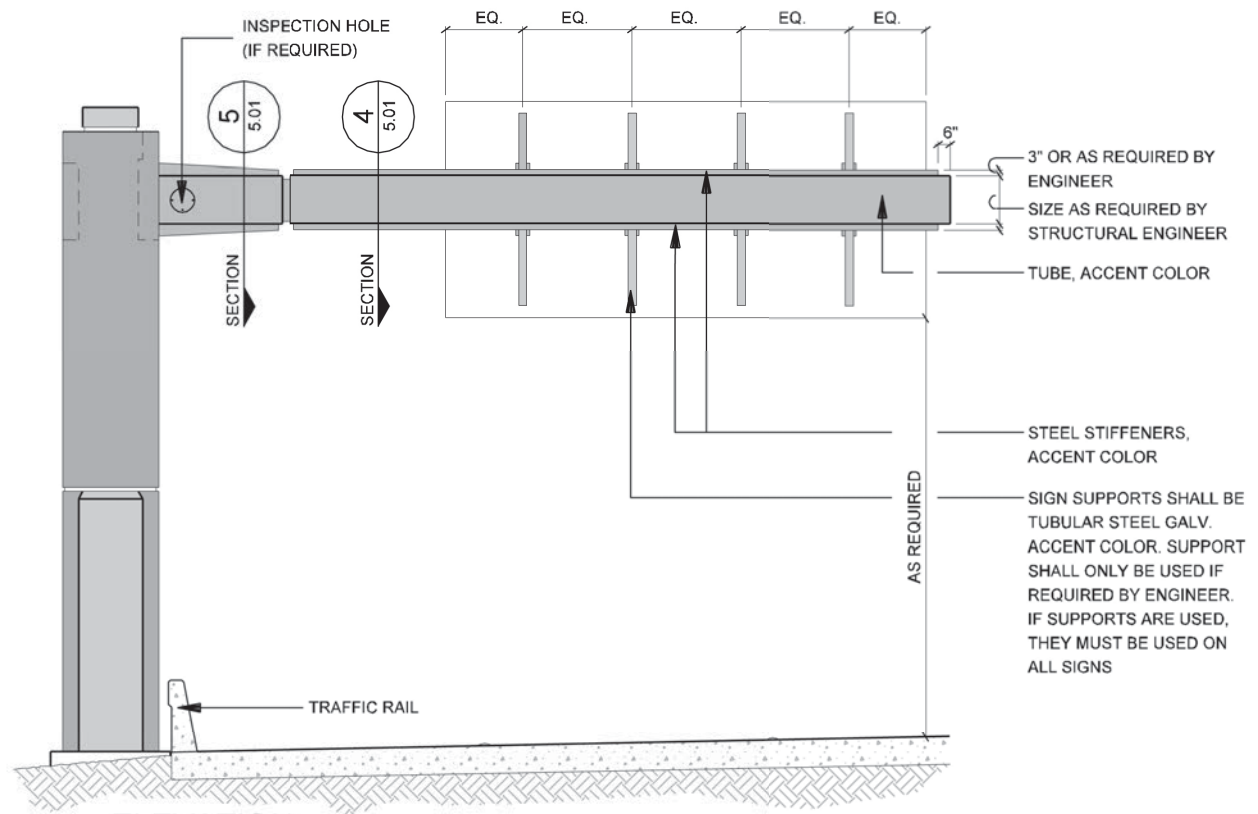
**5**  
SECTION  
TUBE  
SCALE: 1/4"=1'-0"



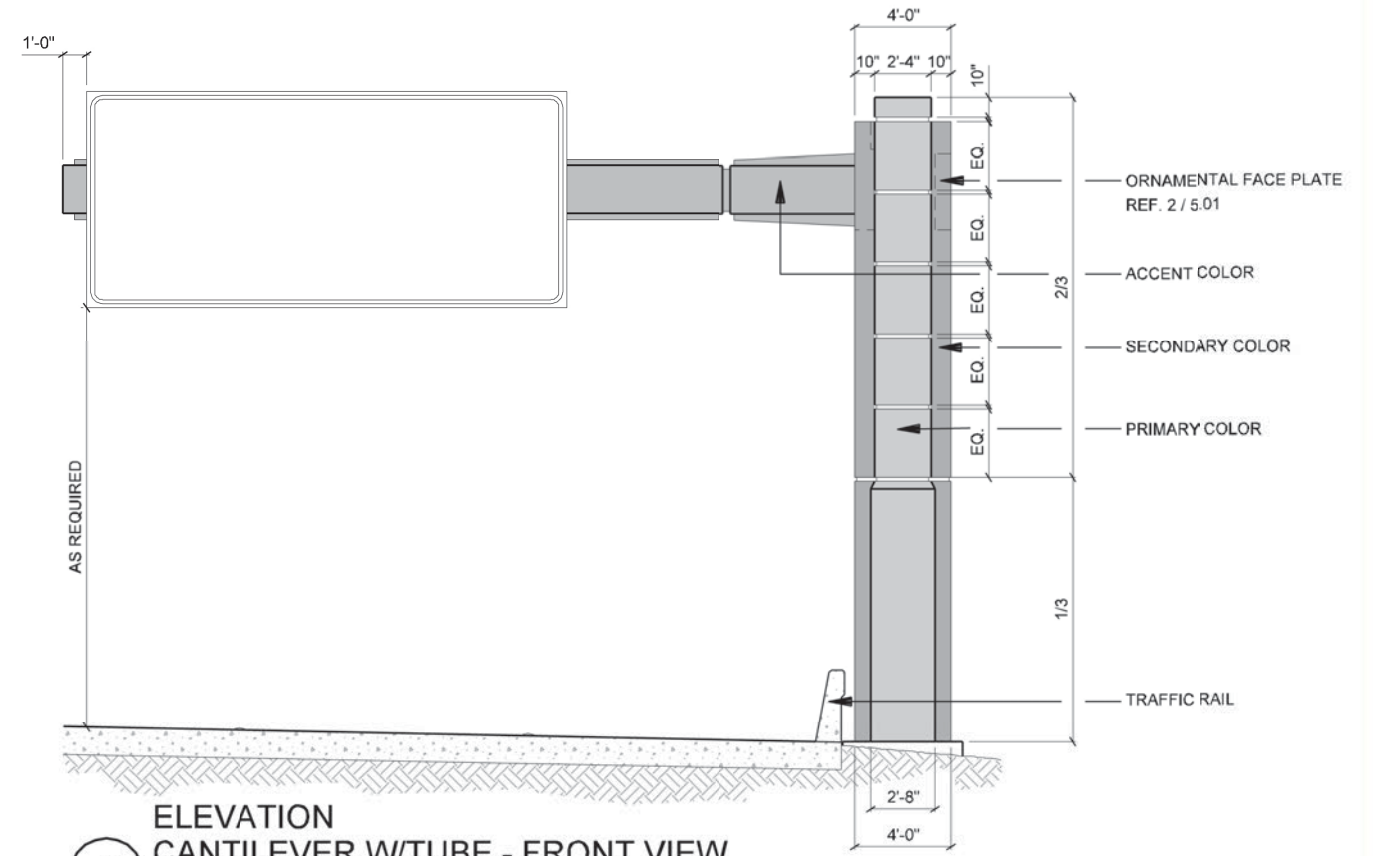
**4**  
SECTION  
TUBE  
SCALE: 1/4"=1'-0"



**2**  
SECTION  
ORNAMENTAL FACE PLATE  
SCALE: 1/2"=1'-0"



**3**  
ELEVATION  
CANTILEVER W/TUBE - BACK VIEW  
SCALE: 1/8"=1'-0"

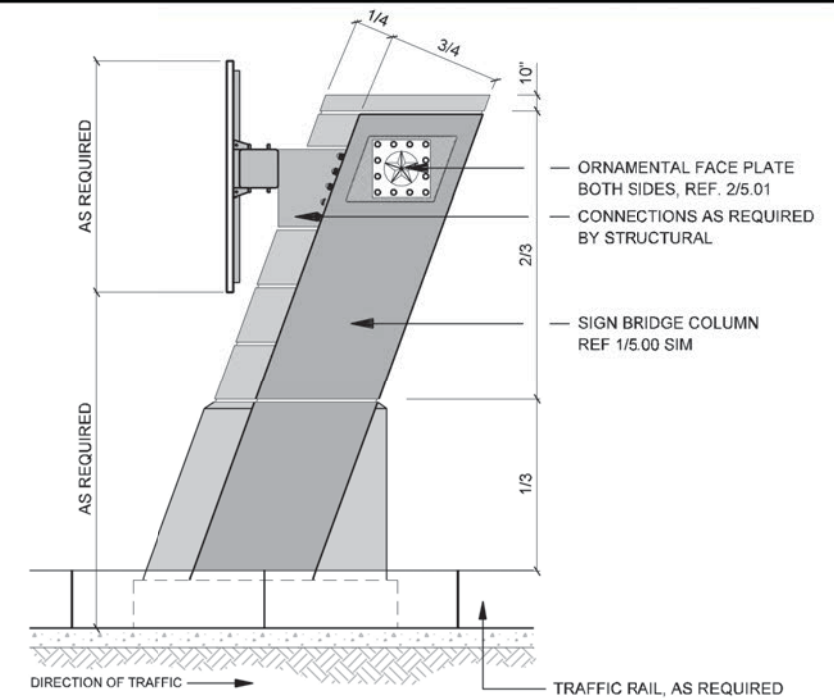


**1**  
ELEVATION  
CANTILEVER W/TUBE - FRONT VIEW  
SCALE: 1/8"=1'-0"

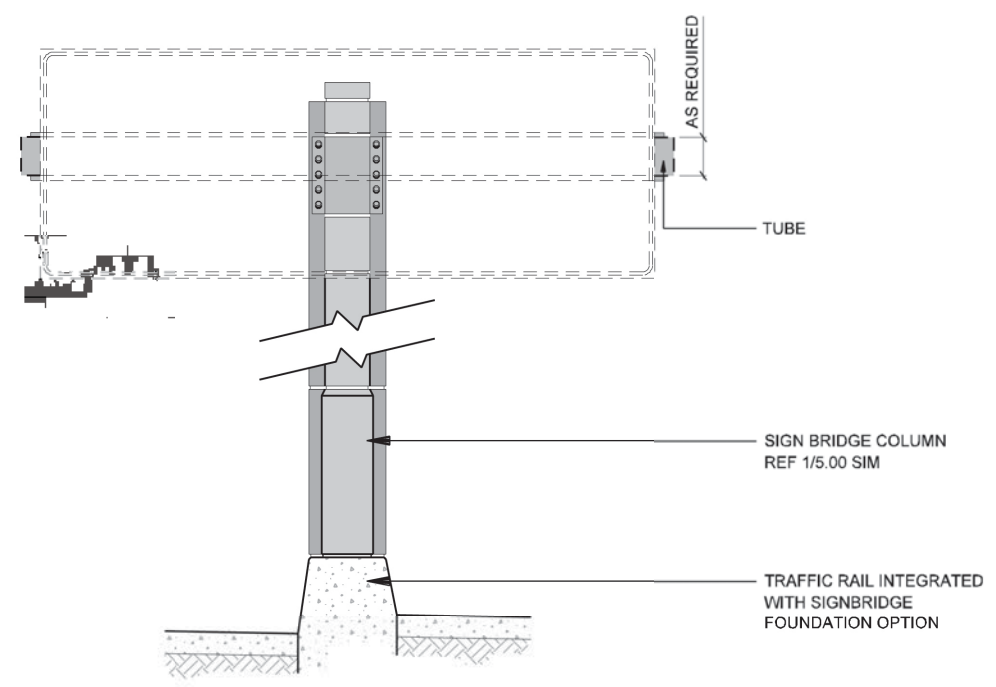
NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: SIGN BRIDGE	ATTACHMENT: 15-1A	SHEET NUMBER: <b>5.01</b>
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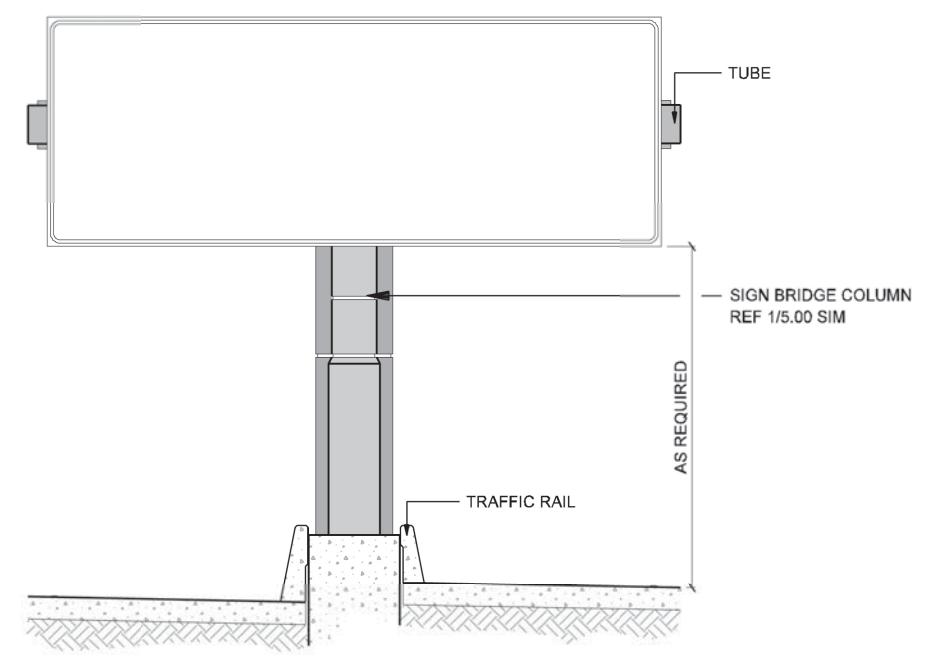




**2** ELEVATION  
 CENTER MEDIAN SIGNAGE SUPPORT - SIDE VIEW  
 SCALE: 1"=10'-0"



**3** ELEVATION  
 TUBE COLUMN CONNECTION  
 SCALE: 1"=10'-0"

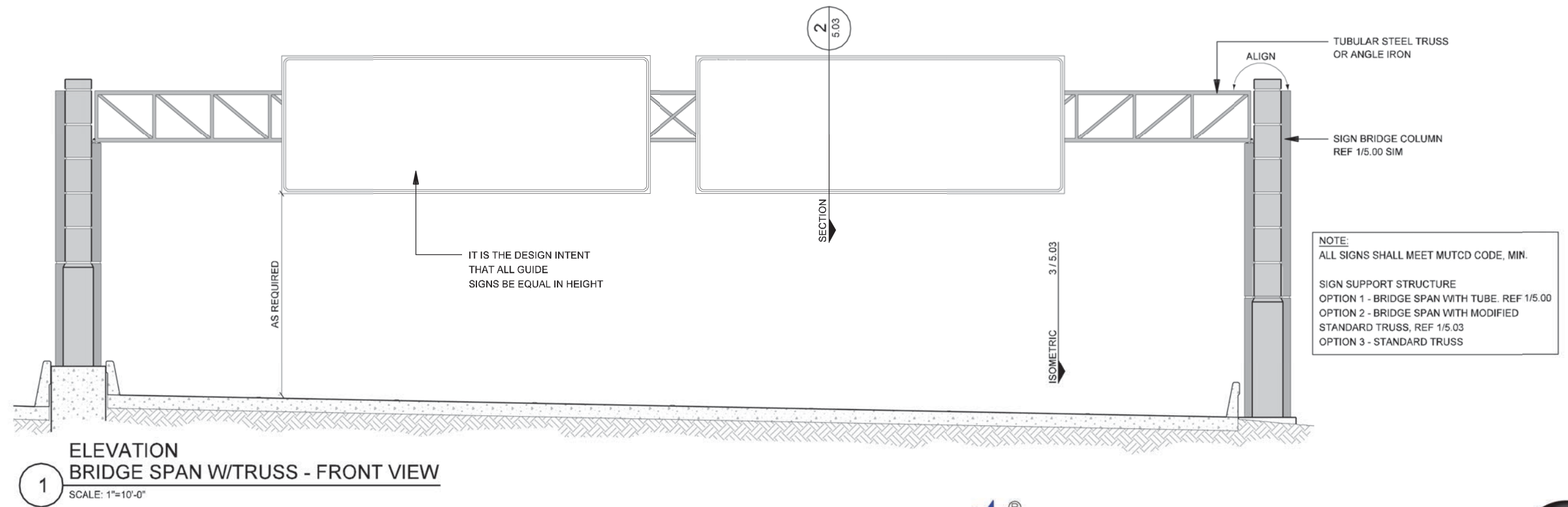
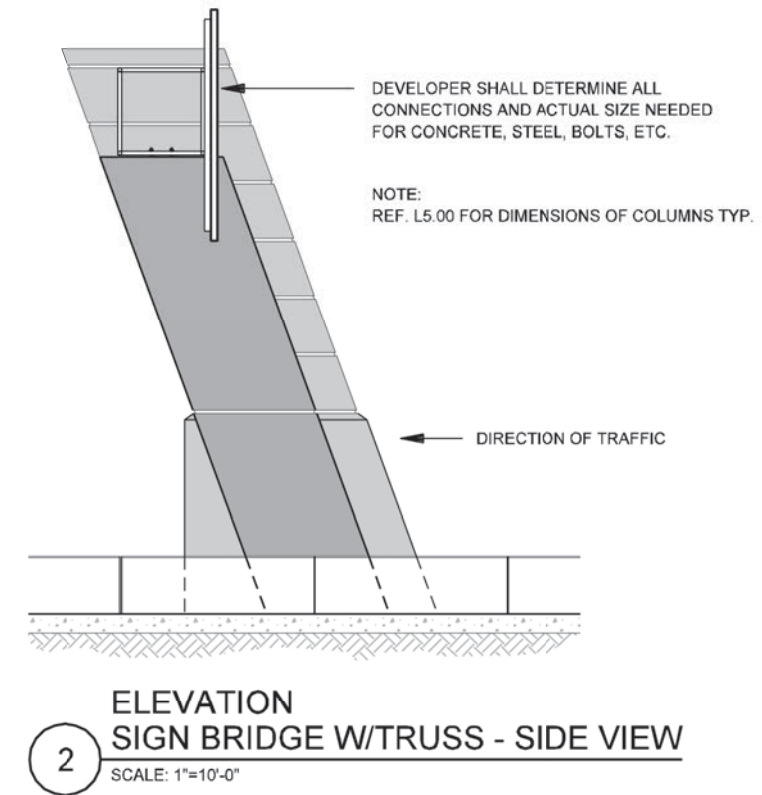
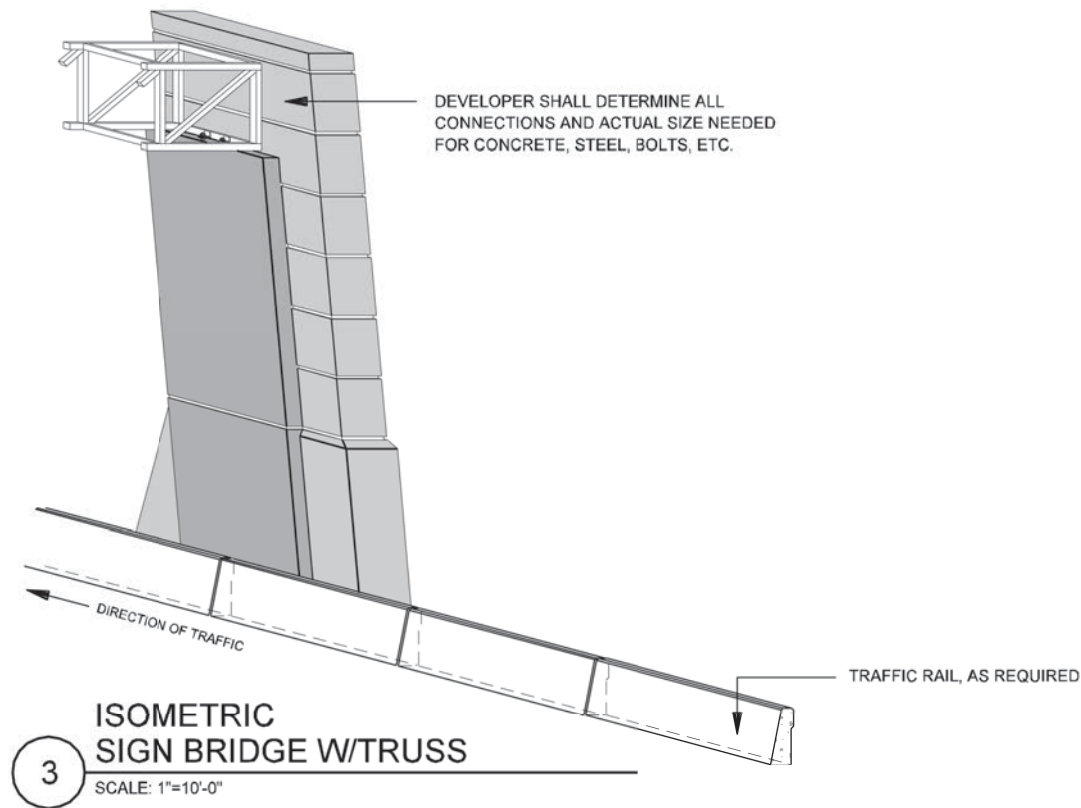


**1** ELEVATION  
 BUTTERFLY W/TUBE - FRONT VIEW  
 SCALE: 1"=10'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

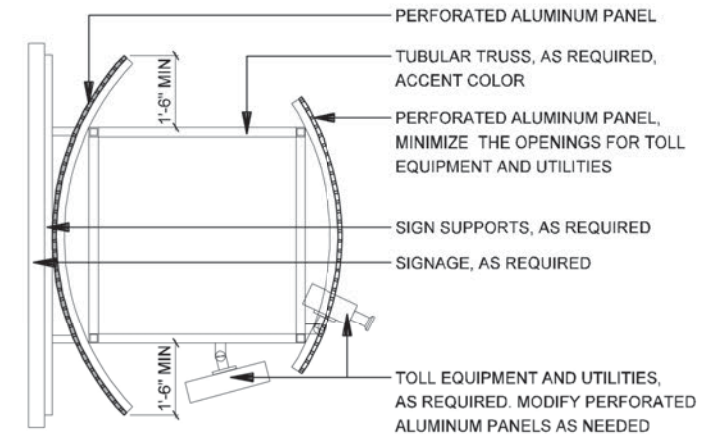
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: SIGN BRIDGE	ATTACHMENT: 15-1A	SHEET NUMBER: <b>5.02</b>
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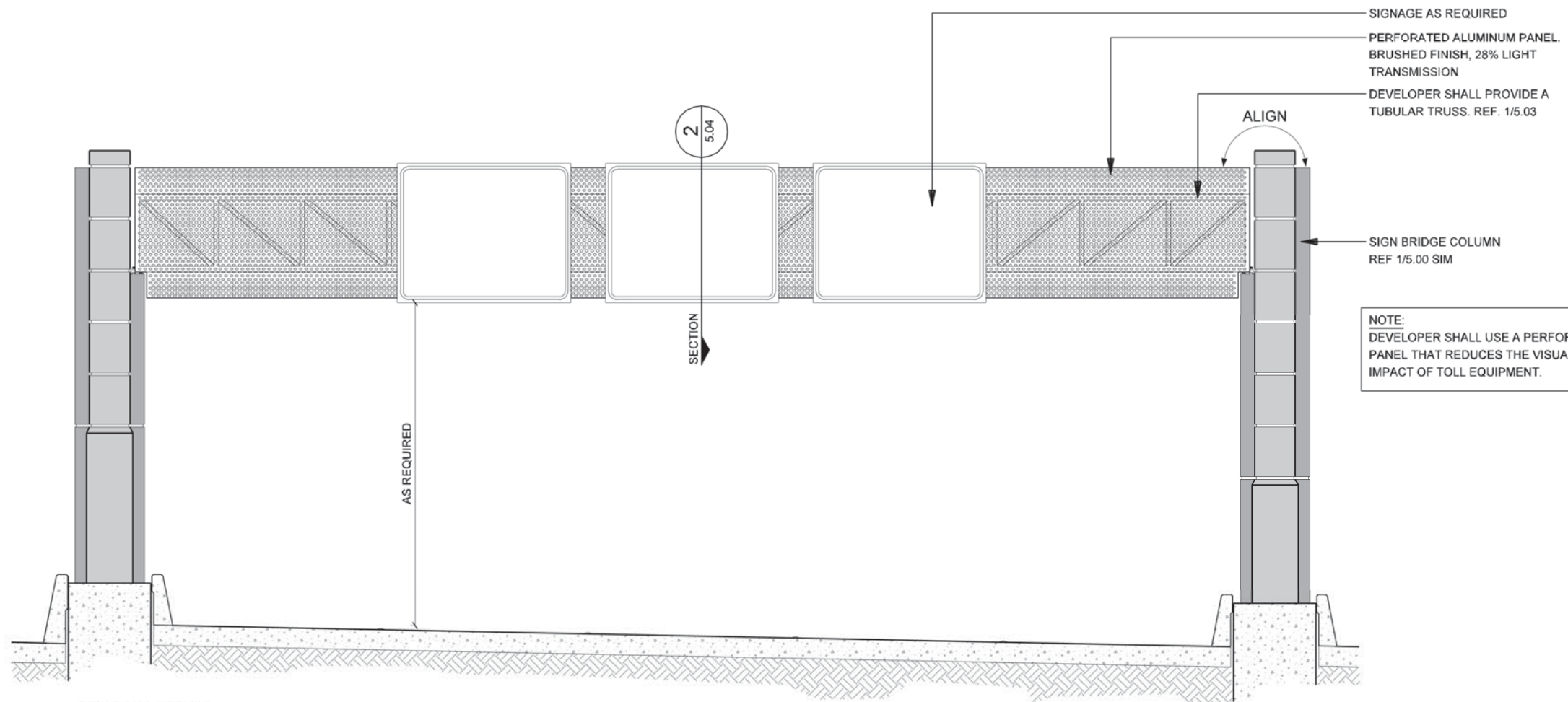


NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: SIGN BRIDGE	ATTACHMENT: 15-1A	SHEET NUMBER: <b>5.03</b>
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**SECTION 2**  
**PERFORATED FACADE PANEL**  
 SCALE: 1/4"=1'-0"



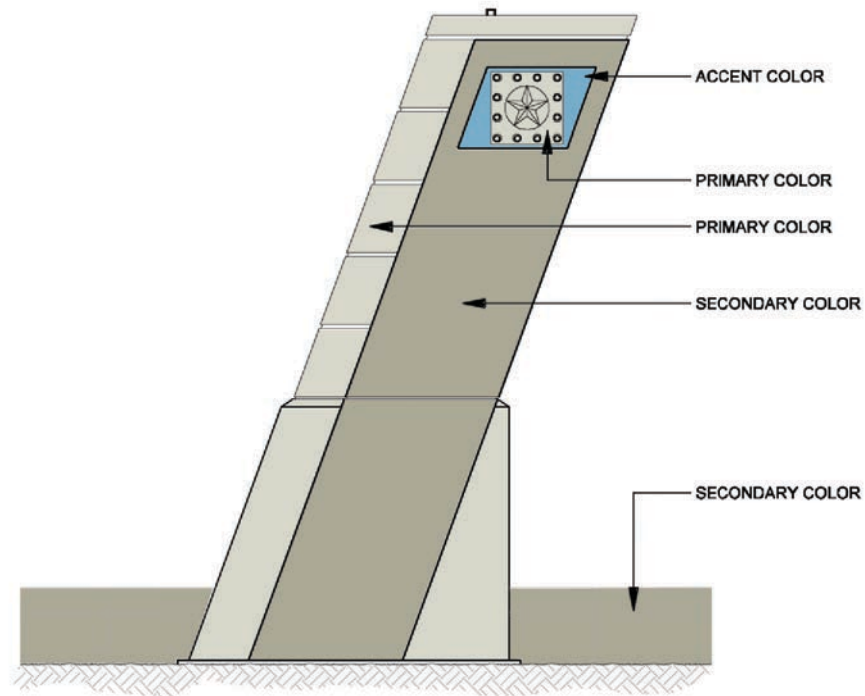
**ELEVATION 1**  
**GANTRY - FRONT VIEW**  
 SCALE: 1/8"=1'-0"



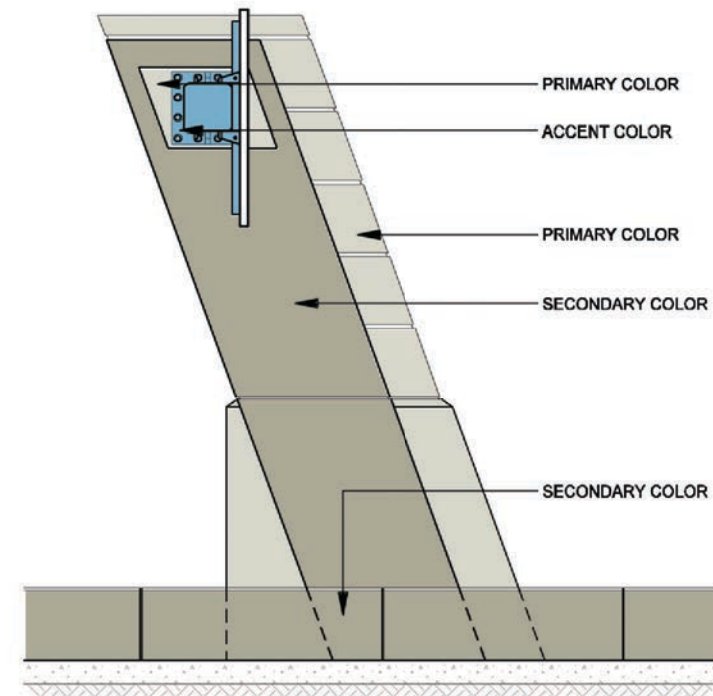
NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: GANTRIES	ATTACHMENT: 15-1A	SHEET NUMBER: <b>5.04</b>
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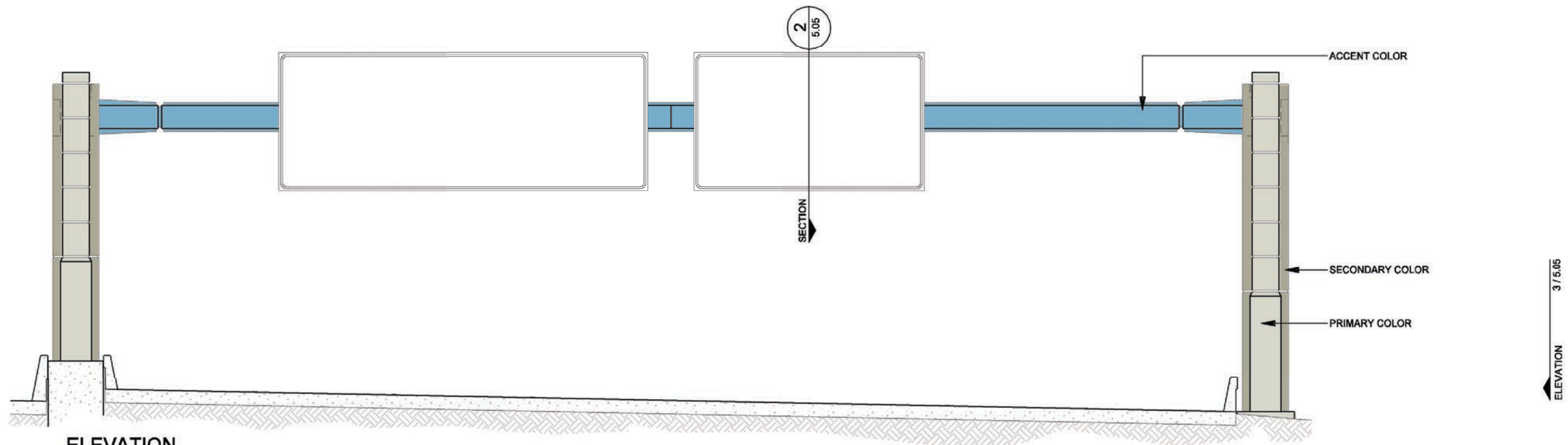




**3** ELEVATION  
SIGN BRIDGE - COLOR CONCEPT  
SCALE: 1/8"=1'-0"



**2** ELEVATION  
SIGN BRIDGE - COLOR CONCEPT  
SCALE: 1/8"=1'-0"



**1** ELEVATION  
SIGN BRIDGE - COLOR CONCEPT  
SCALE: 1"=10'-0"

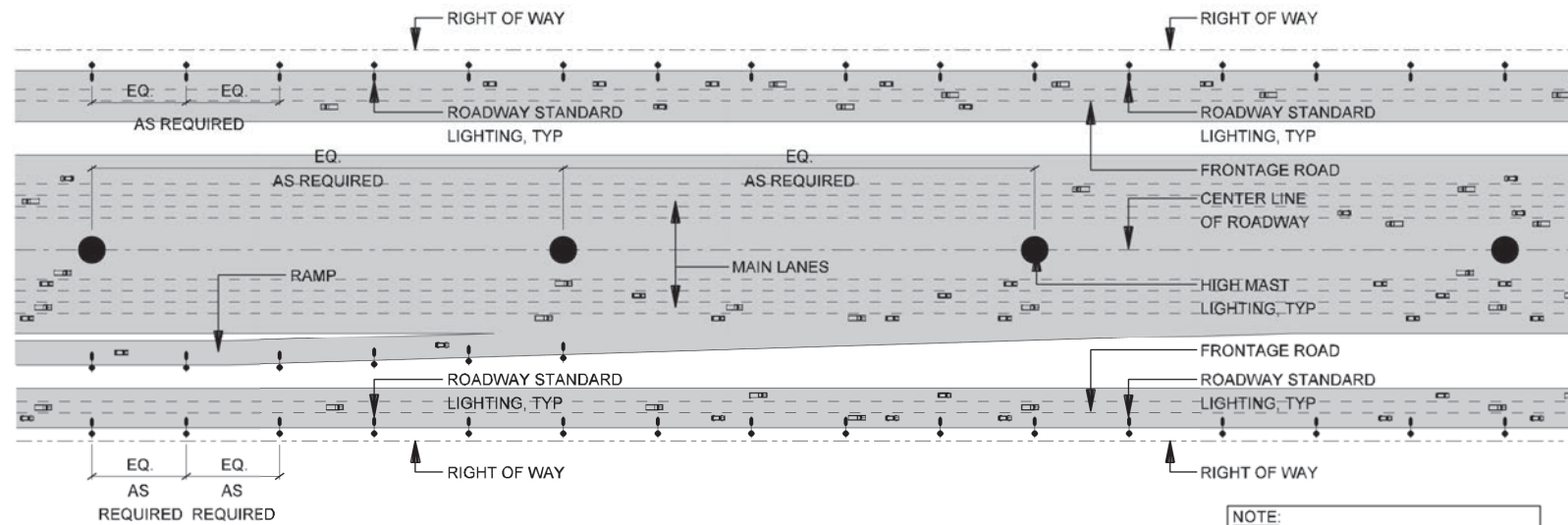
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: SIGN BRIDGE	ATTACHMENT: 15-1A	SHEET NUMBER: <b>5.05</b>
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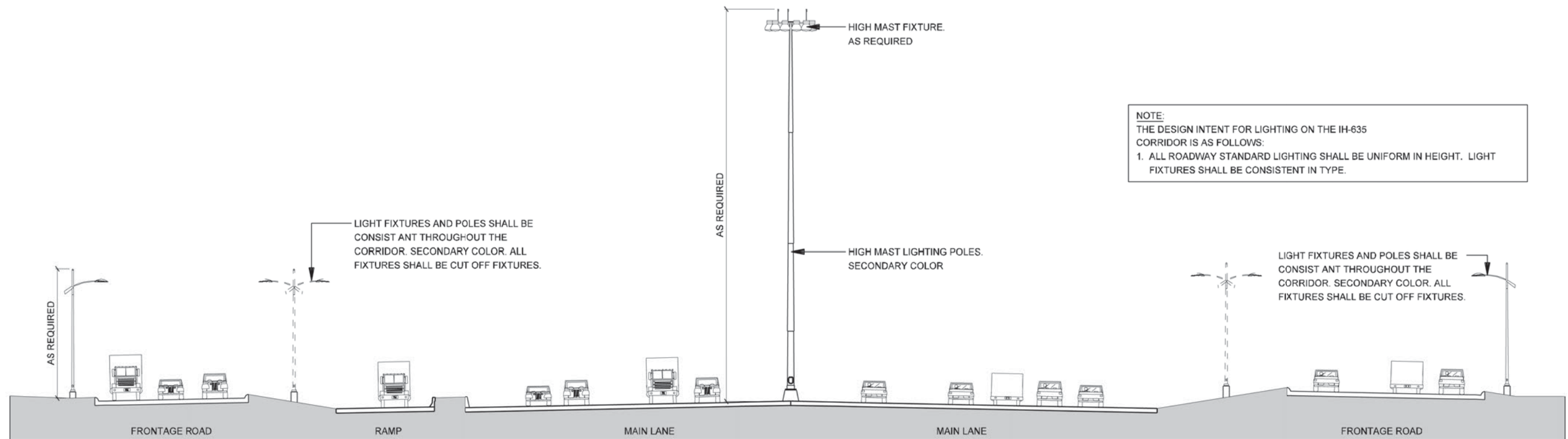
ROADWAY LIGHTING





NOTE:  
LIGHT POLE LOCATIONS ARE SHOWN  
FOR ILLUSTRATIVE PURPOSES ONLY.

2 PLAN  
LIGHTPOLE LAYOUT DIAGRAM - IH-635 TYP  
SCALE: N.T.S.



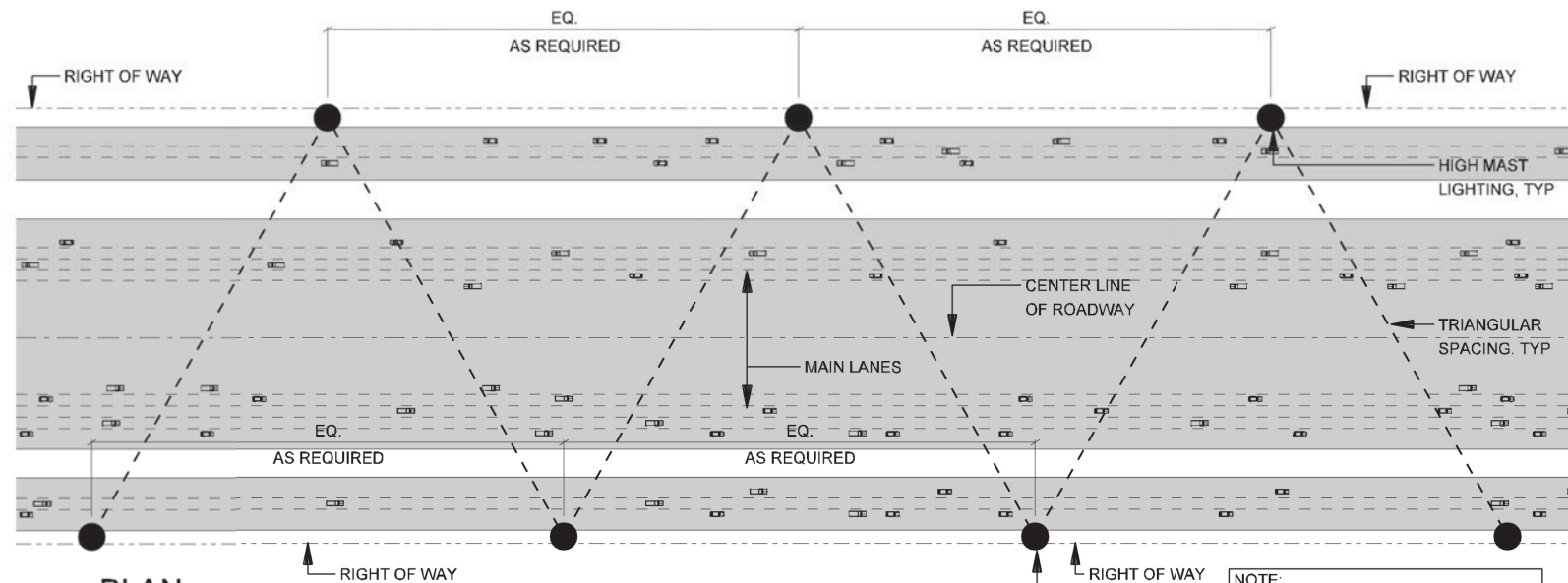
NOTE:  
THE DESIGN INTENT FOR LIGHTING ON THE IH-635  
CORRIDOR IS AS FOLLOWS:  
1. ALL ROADWAY STANDARD LIGHTING SHALL BE UNIFORM IN HEIGHT. LIGHT  
FIXTURES SHALL BE CONSISTENT IN TYPE.

1 SECTION  
LIGHTING LAYOUT - IH-635 TYP  
SCALE: 1"=30'-0"



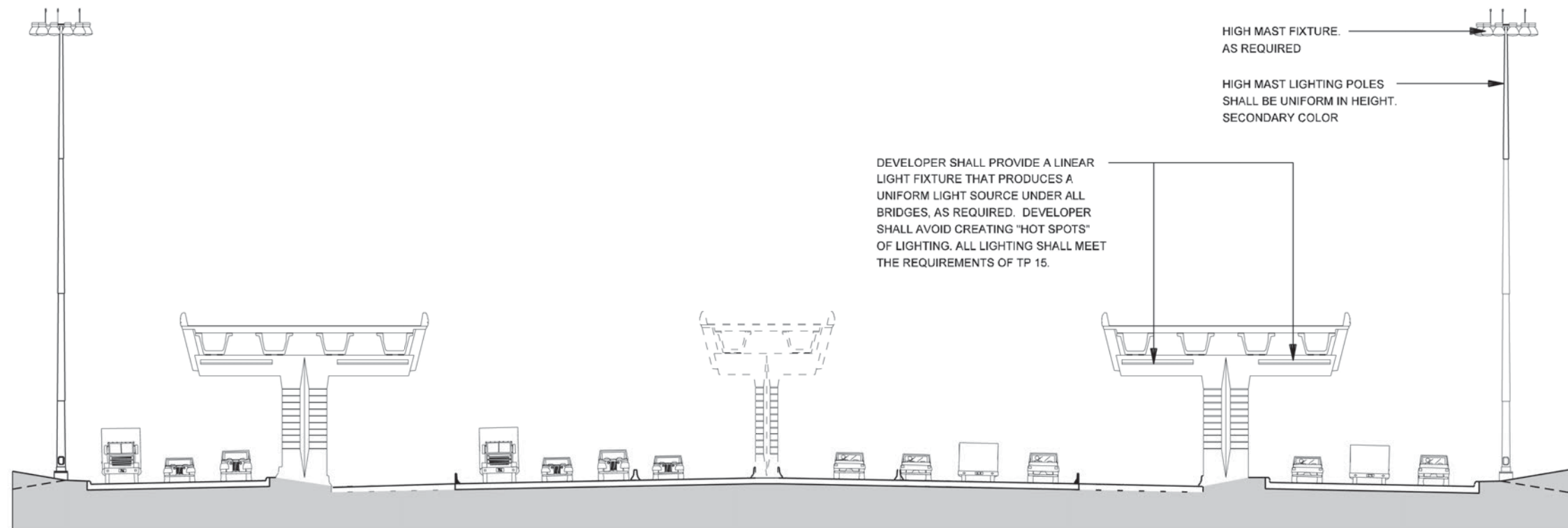
NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 12/07/2007	SCALE: AS NOTED	SHEET CONTENTS: ROADWAY LIGHTING	ATTACHMENT: 15-1A	SHEET NUMBER: <b>6.00</b>
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**2** PLAN LIGHTPOLE LAYOUT DIAGRAM - IH-35E TYP  
SCALE: N.T.S.

NOTE:  
LIGHT POLE LOCATIONS ARE SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.



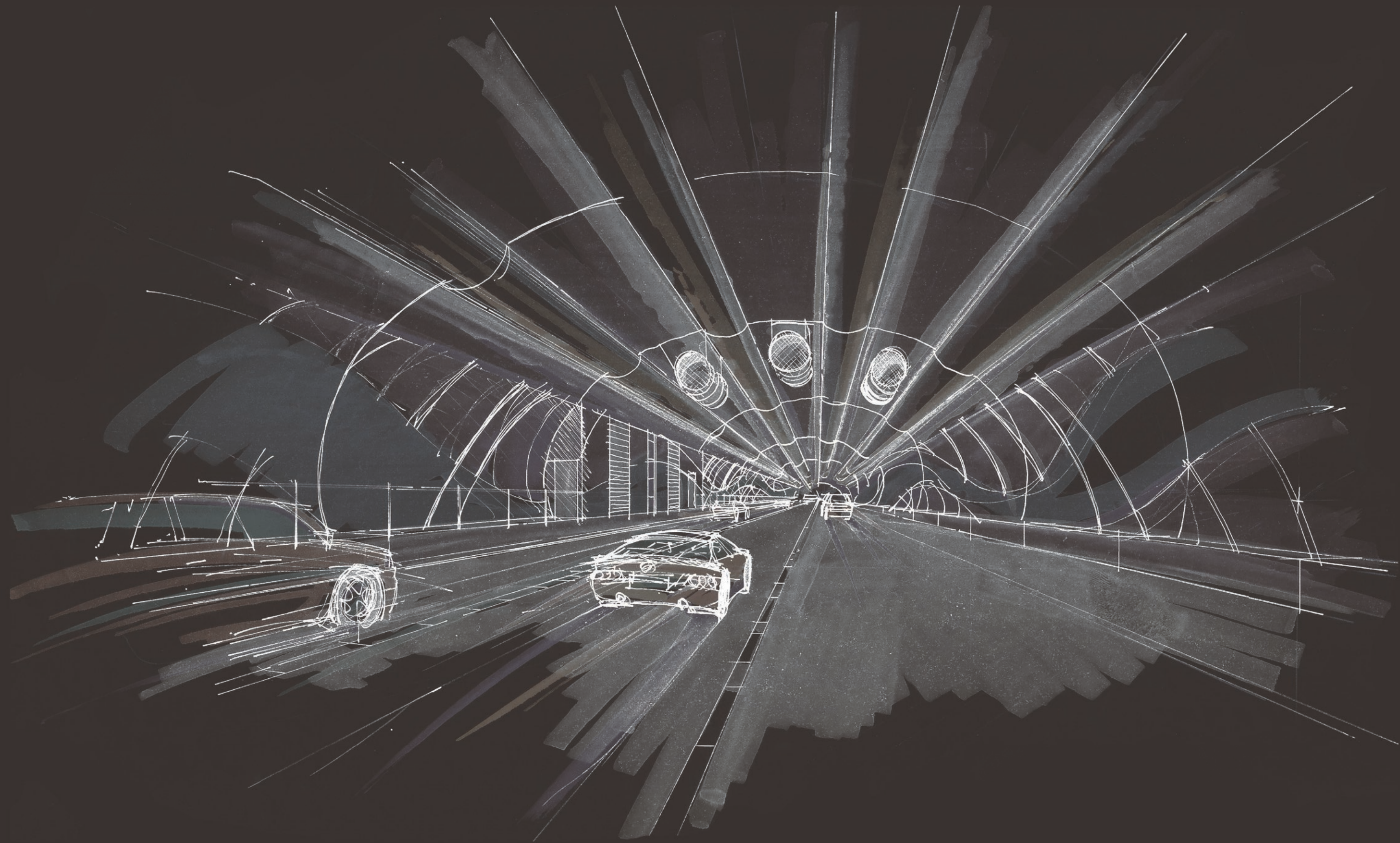
**1** SECTION LIGHTING LAYOUT - IH-35E TYP  
SCALE: 1"=30'-0"

DEVELOPER SHALL PROVIDE A LINEAR LIGHT FIXTURE THAT PRODUCES A UNIFORM LIGHT SOURCE UNDER ALL BRIDGES, AS REQUIRED. DEVELOPER SHALL AVOID CREATING "HOT SPOTS" OF LIGHTING. ALL LIGHTING SHALL MEET THE REQUIREMENTS OF TP 15.

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

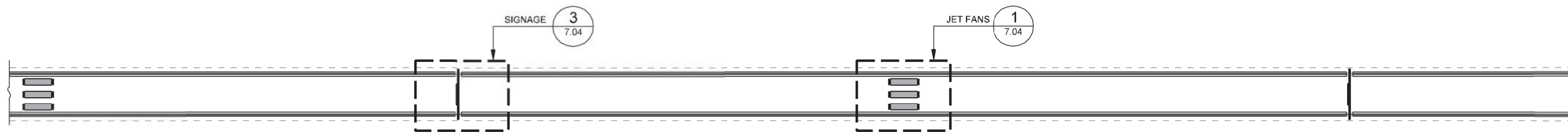
DATE: 12/07/2007	SCALE: AS NOTED	SHEET CONTENTS: ROADWAY LIGHTING	ATTACHMENT: 15-1A	SHEET NUMBER: <b>6.01</b>
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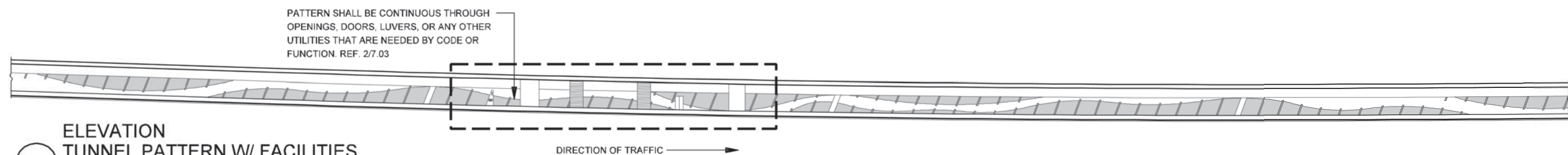


TUNNEL AESTHETICS

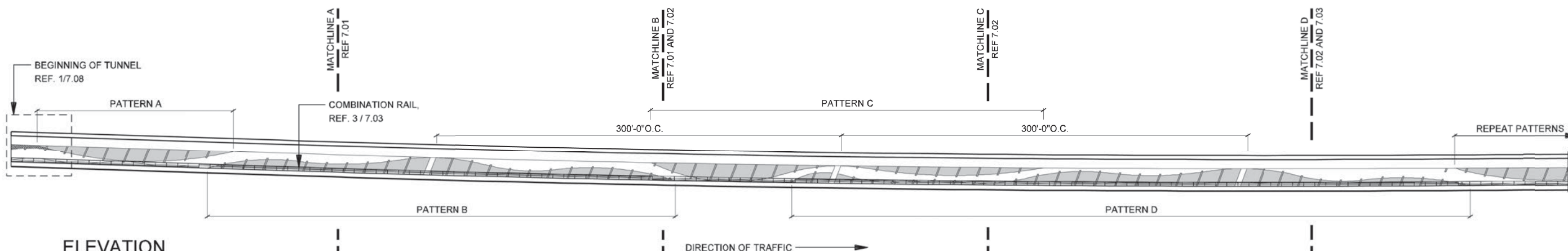




3  
**PLAN REFLECTED CEILING**  
 SCALE: 1"=100'-0"



2  
**ELEVATION TUNNEL PATTERN W/ FACILITIES**  
 SCALE: 1"=80'-0"



1  
**ELEVATION TUNNEL PATTERN - TYP**  
 SCALE: 1"=80'-0"

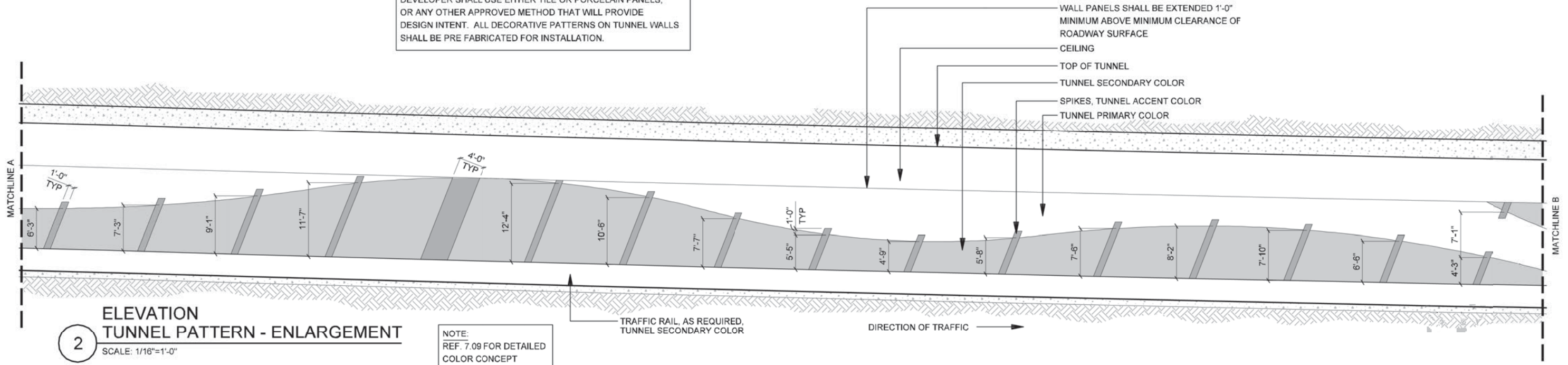


NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: TUNNEL AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>7.00</b>
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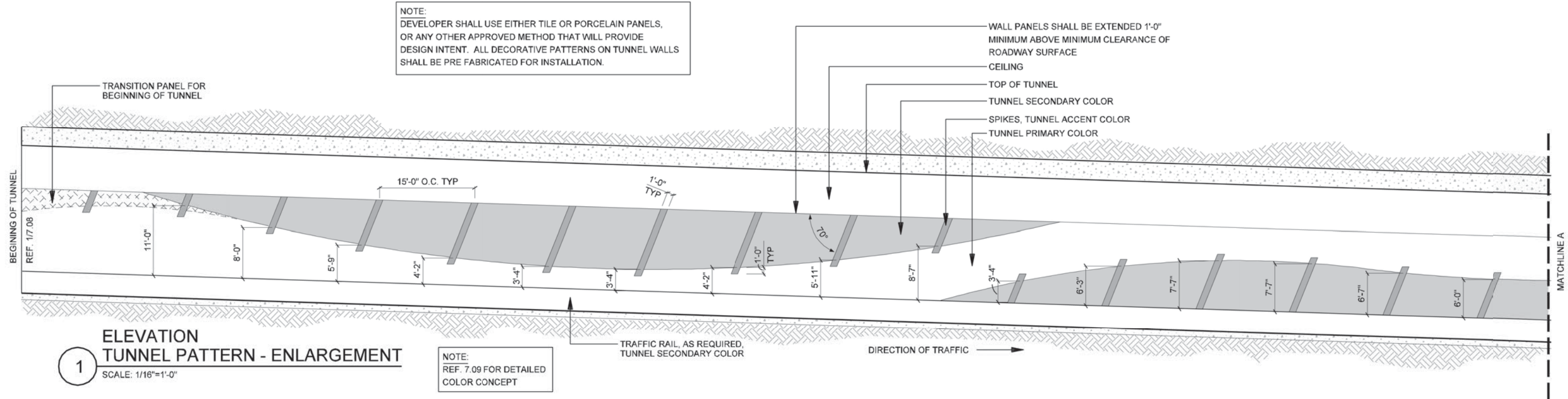
NOTE:  
DEVELOPER SHALL USE EITHER TILE OR PORCELAIN PANELS,  
OR ANY OTHER APPROVED METHOD THAT WILL PROVIDE  
DESIGN INTENT. ALL DECORATIVE PATTERNS ON TUNNEL WALLS  
SHALL BE PRE FABRICATED FOR INSTALLATION.



**2**  
**ELEVATION  
TUNNEL PATTERN - ENLARGEMENT**  
SCALE: 1/16"=1'-0"

NOTE:  
REF. 7.09 FOR DETAILED  
COLOR CONCEPT

NOTE:  
DEVELOPER SHALL USE EITHER TILE OR PORCELAIN PANELS,  
OR ANY OTHER APPROVED METHOD THAT WILL PROVIDE  
DESIGN INTENT. ALL DECORATIVE PATTERNS ON TUNNEL WALLS  
SHALL BE PRE FABRICATED FOR INSTALLATION.



**1**  
**ELEVATION  
TUNNEL PATTERN - ENLARGEMENT**  
SCALE: 1/16"=1'-0"

NOTE:  
REF. 7.09 FOR DETAILED  
COLOR CONCEPT

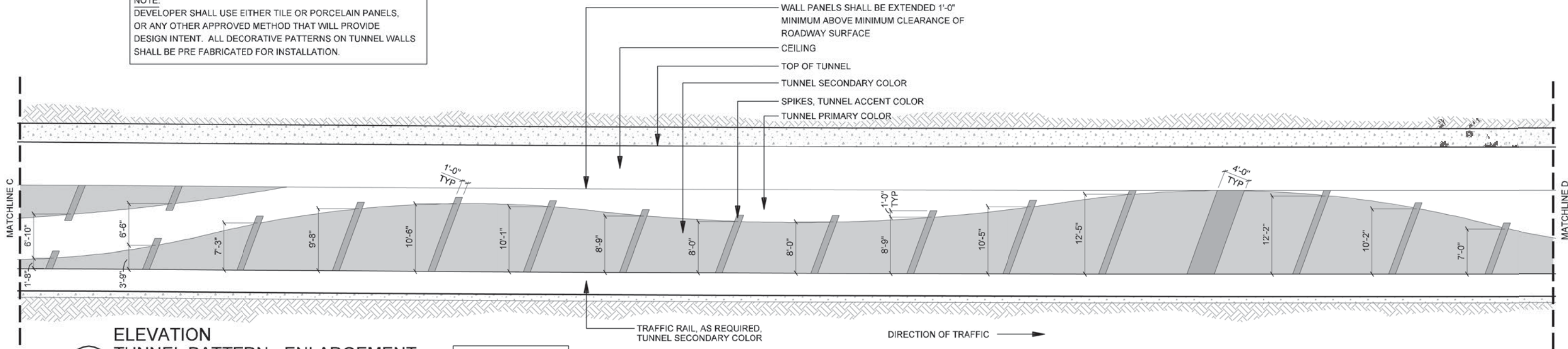


NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: TUNNEL AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>7.01</b>
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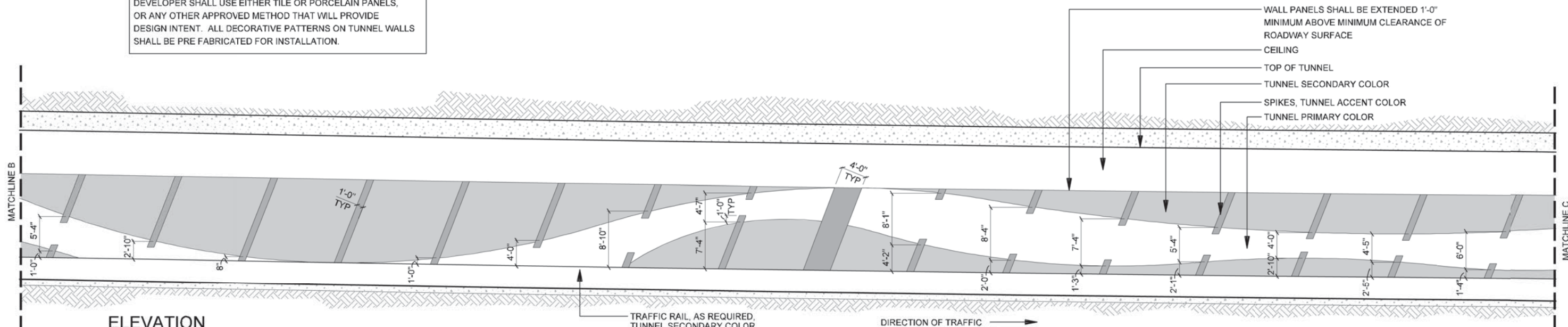
NOTE:  
DEVELOPER SHALL USE EITHER TILE OR PORCELAIN PANELS,  
OR ANY OTHER APPROVED METHOD THAT WILL PROVIDE  
DESIGN INTENT. ALL DECORATIVE PATTERNS ON TUNNEL WALLS  
SHALL BE PRE FABRICATED FOR INSTALLATION.



**2**  
**ELEVATION  
TUNNEL PATTERN - ENLARGEMENT**  
SCALE: 1/16"=1'-0"

NOTE:  
REF. 7.09 FOR DETAILED  
COLOR CONCEPT

NOTE:  
DEVELOPER SHALL USE EITHER TILE OR PORCELAIN PANELS,  
OR ANY OTHER APPROVED METHOD THAT WILL PROVIDE  
DESIGN INTENT. ALL DECORATIVE PATTERNS ON TUNNEL WALLS  
SHALL BE PRE FABRICATED FOR INSTALLATION.



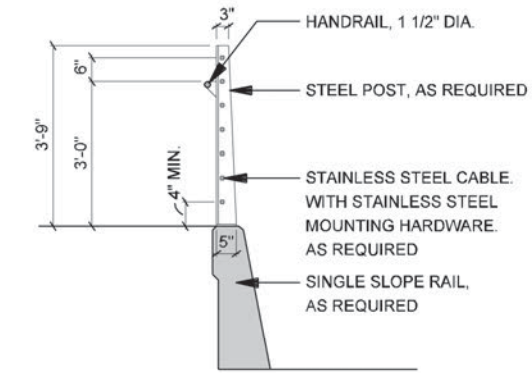
**1**  
**ELEVATION  
TUNNEL PATTERN - ENLARGEMENT**  
SCALE: 1/16"=1'-0"

NOTE:  
REF. 7.09 FOR DETAILED  
COLOR CONCEPT

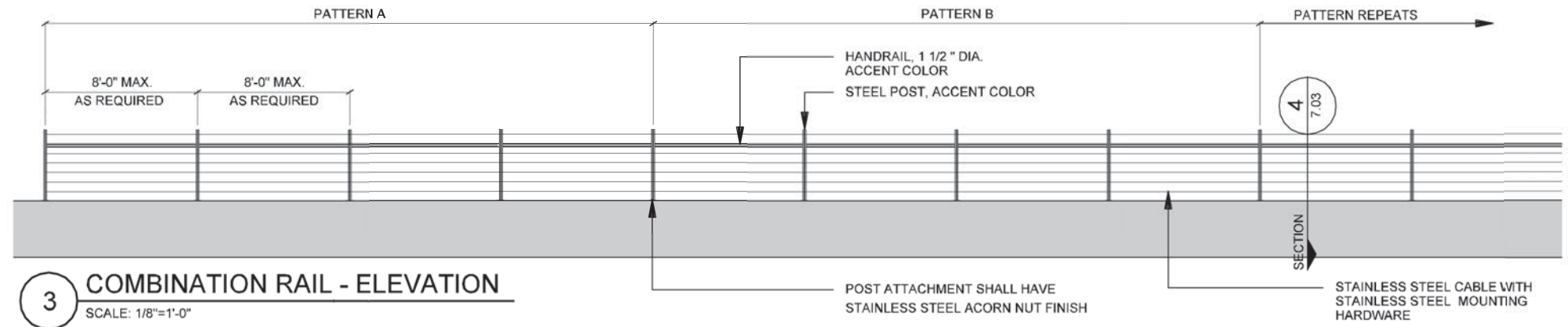
NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: TUNNEL AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>7.02</b>
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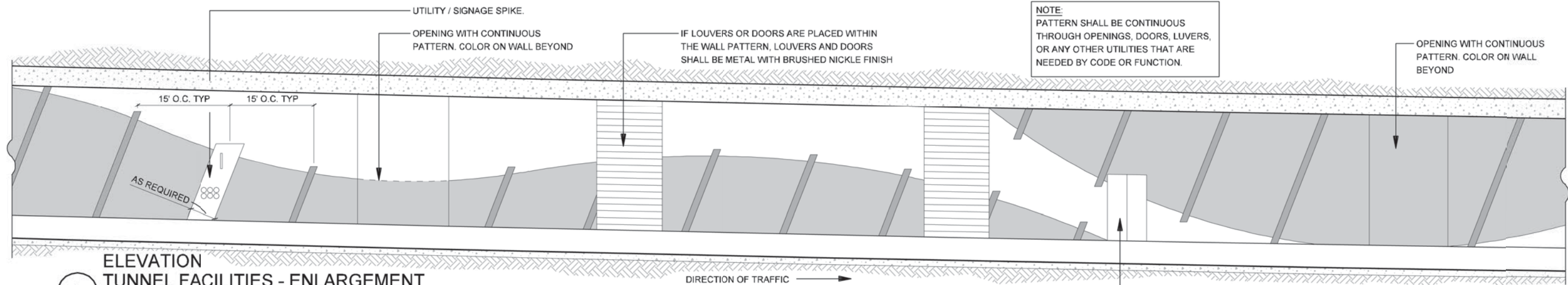




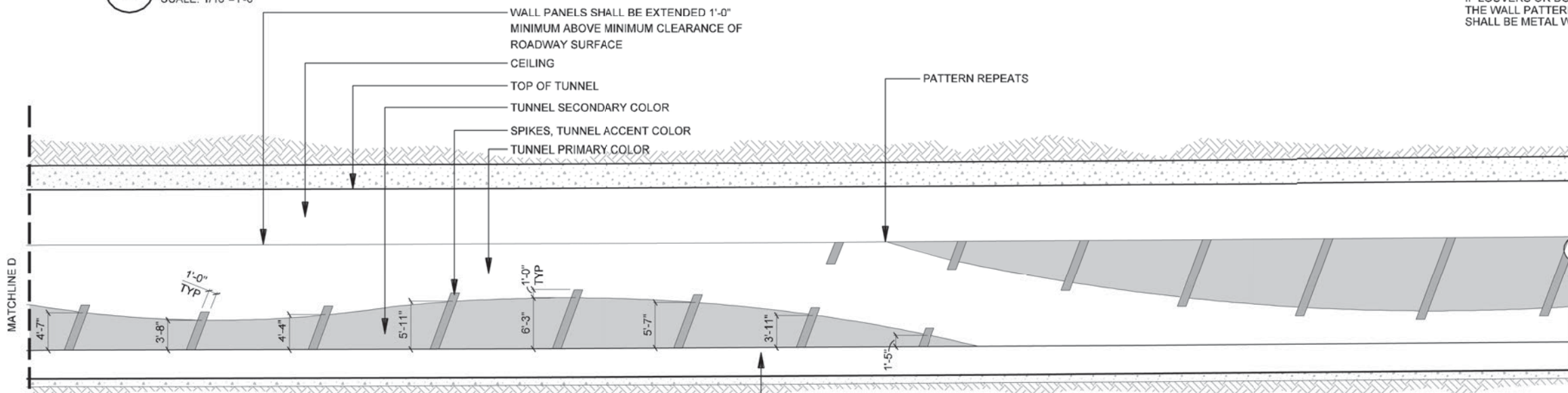
**4 COMBINATION RAIL - SECTION**  
SCALE: 1/4"=1'-0"



**3 COMBINATION RAIL - ELEVATION**  
SCALE: 1/8"=1'-0"



**2 ELEVATION TUNNEL FACILITIES - ENLARGEMENT**  
SCALE: 1/16"=1'-0"



**1 ELEVATION TUNNEL PATTERN - ENLARGEMENT**  
SCALE: 1/16"=1'-0"

NOTE:  
REF. 7.09 FOR DETAILED  
COLOR CONCEPT

NOTE:  
DEVELOPER SHALL USE EITHER TILE OR PORCELAIN PANELS,  
OR ANY OTHER APPROVED METHOD THAT WILL PROVIDE  
DESIGN INTENT. ALL DECORATIVE PATTERNS ON TUNNEL WALLS  
SHALL BE PRE FABRICATED FOR INSTALLATION.



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

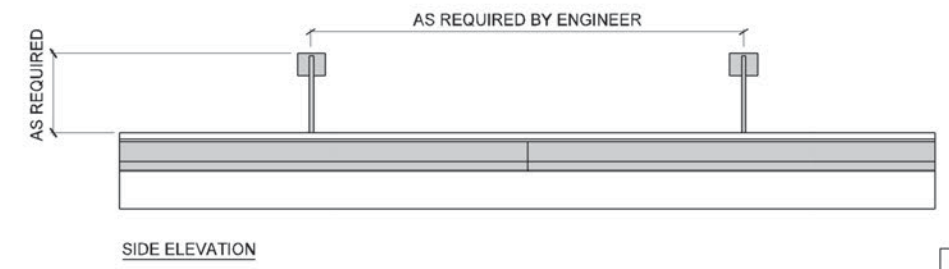
DATE:  
09/12/2007

SCALE:  
AS NOTED

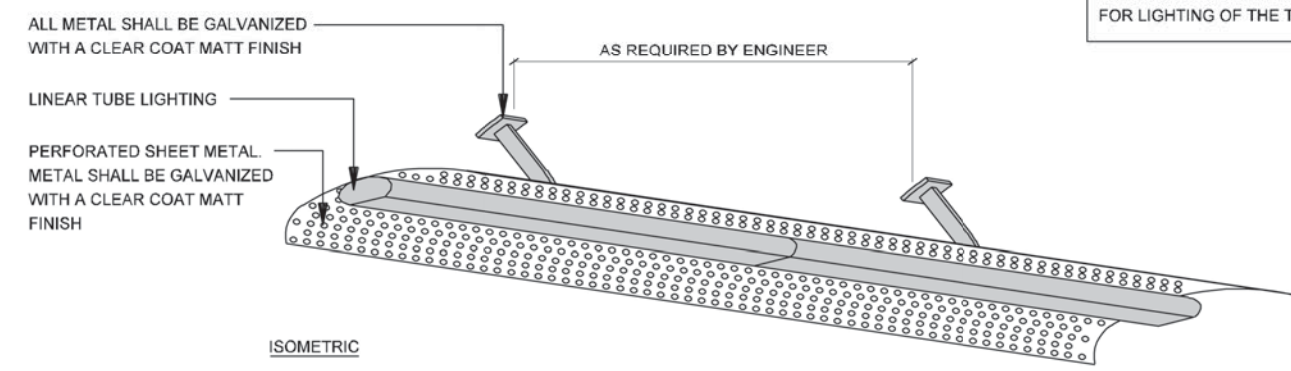
SHEET CONTENTS:  
TUNNEL AESTHETICS

ATTACHMENT:  
15-1A

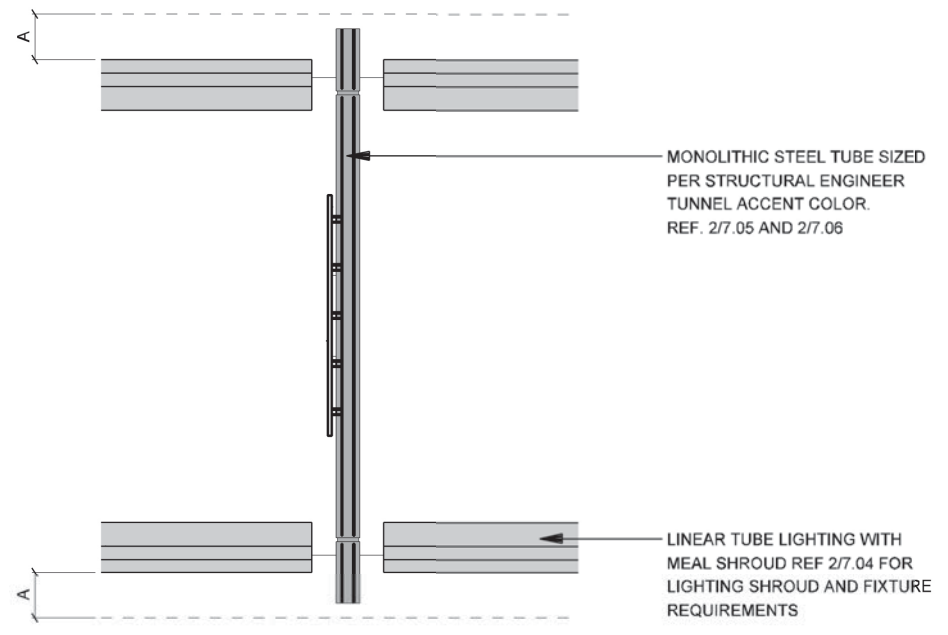
SHEET NUMBER:  
**7.03**



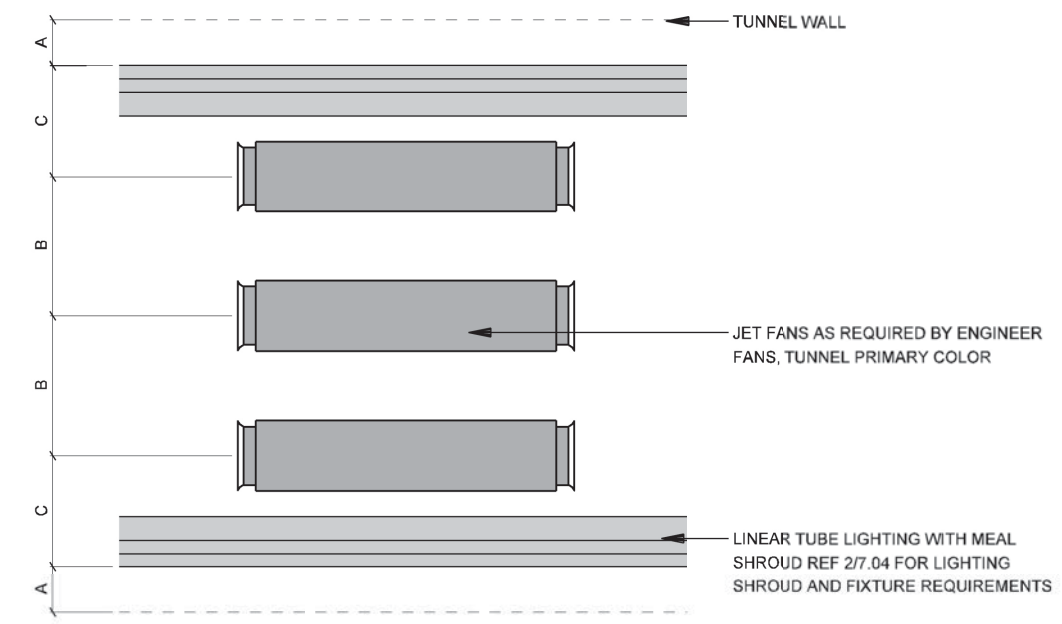
NOTE:  
DEVELOPER SHALL USE LINEAR TUBE LIGHTING  
FOR LIGHTING OF THE TUNNELS.



**2 TUNNEL LIGHTING**  
SCALE: 1/4"=1'-0"



**3 PLAN SIGNAGE - REFLECTED CEILING**  
SCALE: 1/16"=1'-0"



**1 PLAN JET FANS - REFLECTED CEILING**  
SCALE: 1/16"=1'-0"

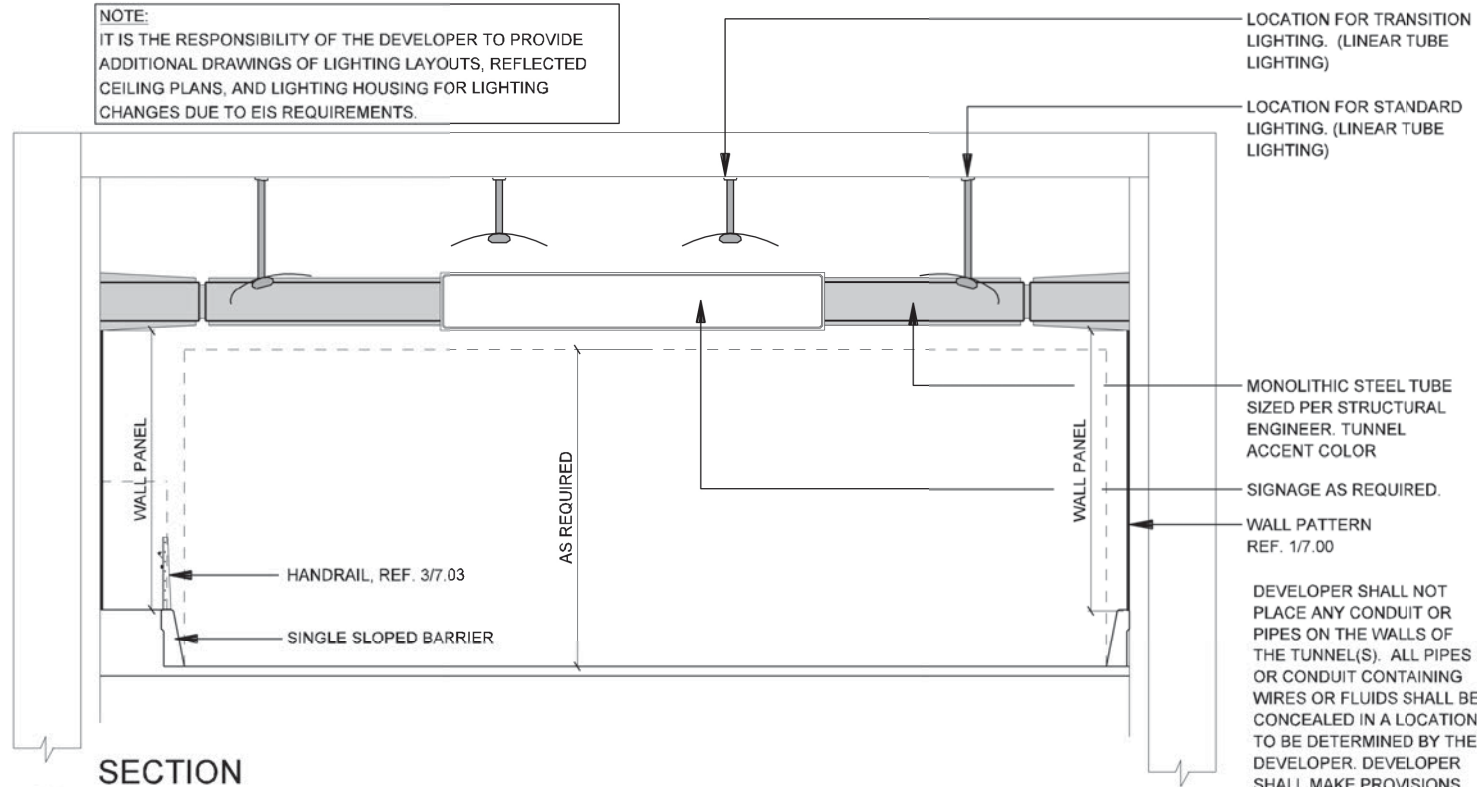


NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: TUNNEL AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>7.04</b>
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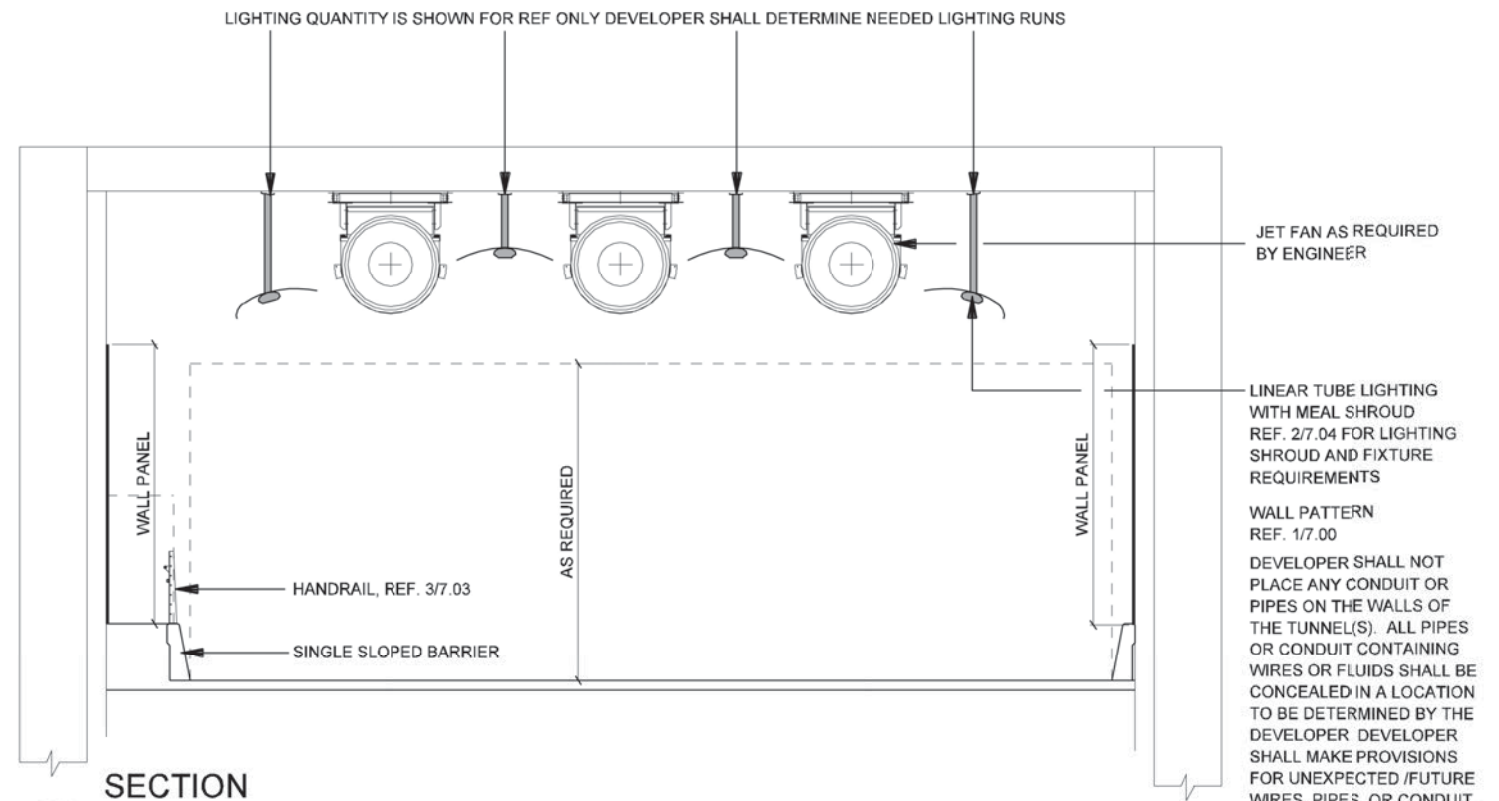


**NOTE:**  
IT IS THE RESPONSIBILITY OF THE DEVELOPER TO PROVIDE ADDITIONAL DRAWINGS OF LIGHTING LAYOUTS, REFLECTED CEILING PLANS, AND LIGHTING HOUSING FOR LIGHTING CHANGES DUE TO EIS REQUIREMENTS.



**2** SECTION LIGHTING / SIGNAGE - CUT AND COVER TUNNEL  
SCALE: 1"=10'-0"

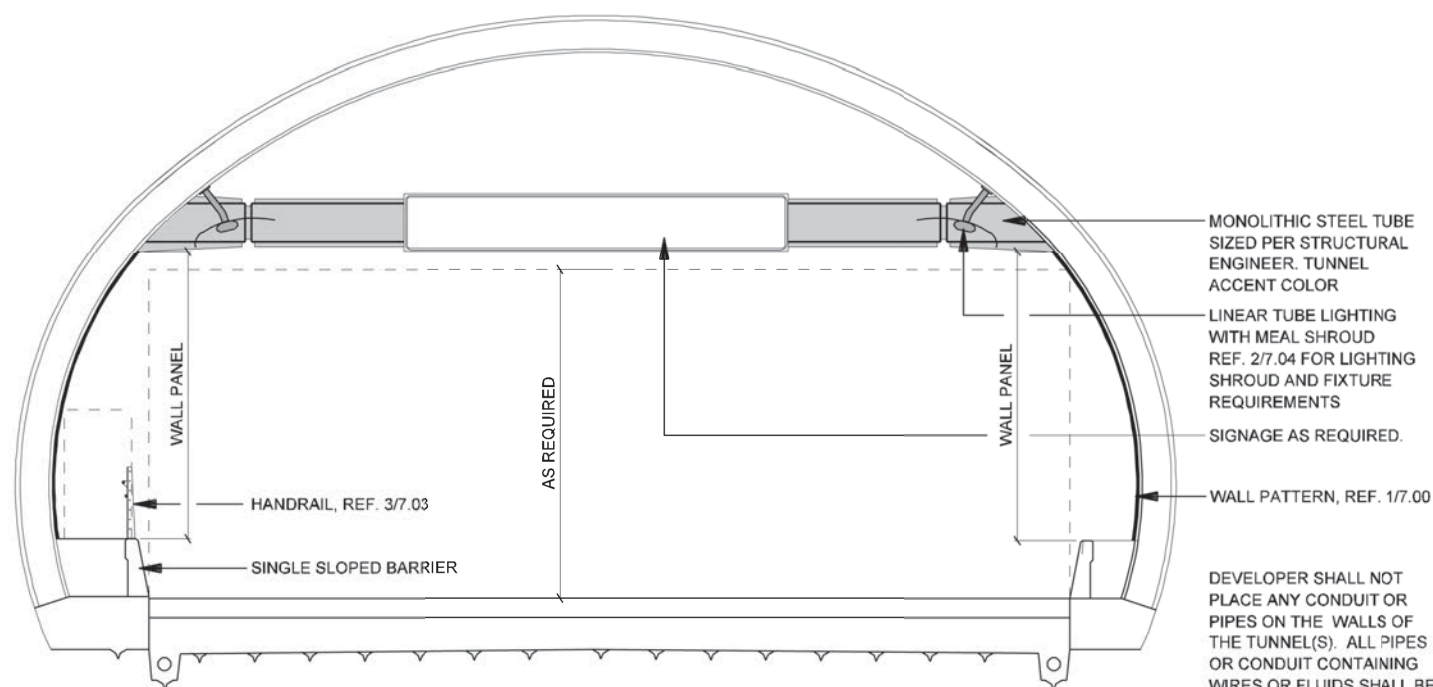
LIGHTING QUANTITY IS SHOWN FOR REF ONLY DEVELOPER SHALL DETERMINE NEEDED LIGHTING RUNS



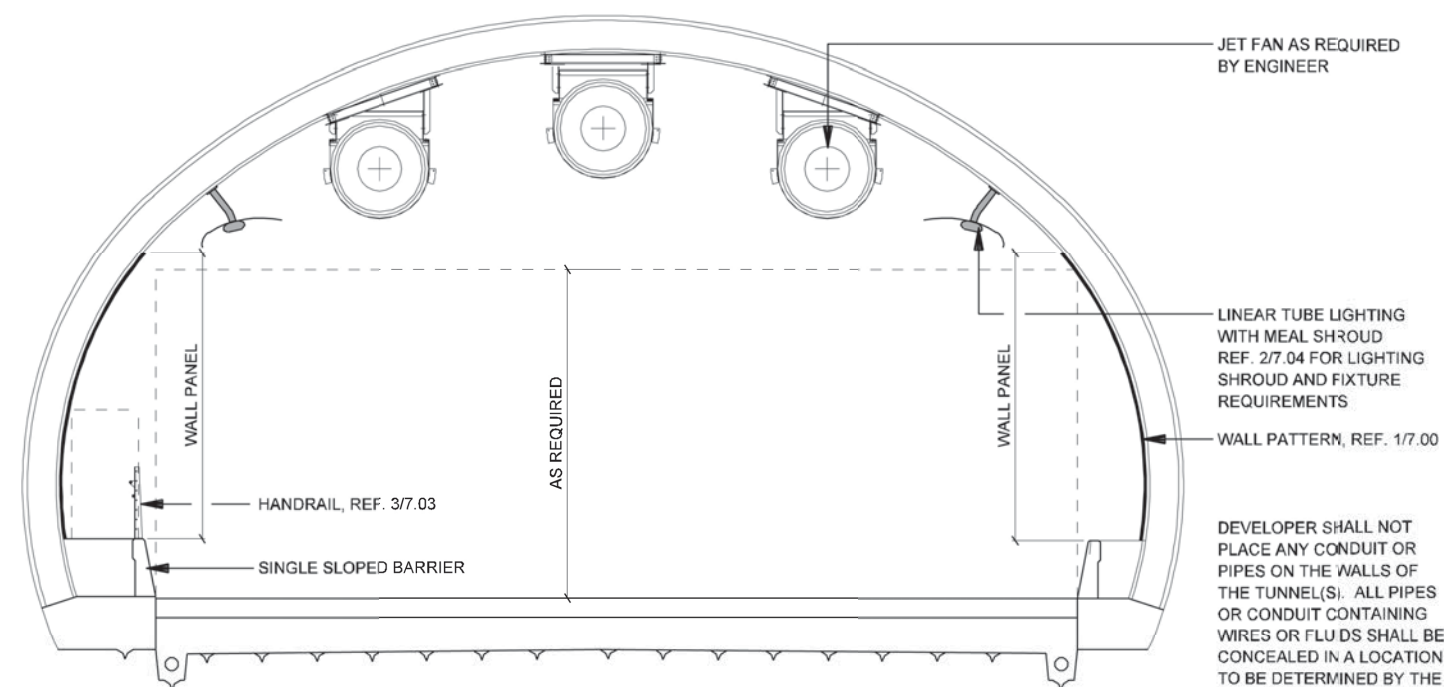
**1** SECTION LIGHTING / JET FANS - CUT AND COVER TUNNEL  
SCALE: 1"=10'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: TUNNEL AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>7.05</b>
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**2** SECTION LIGHTING / SIGNAGE - MINED TUNNEL  
SCALE: 1"=10'-0"



**1** SECTION LIGHTING / JET FANS - MINED TUNNEL  
SCALE: 1"=10'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

SCALE:  
AS NOTED

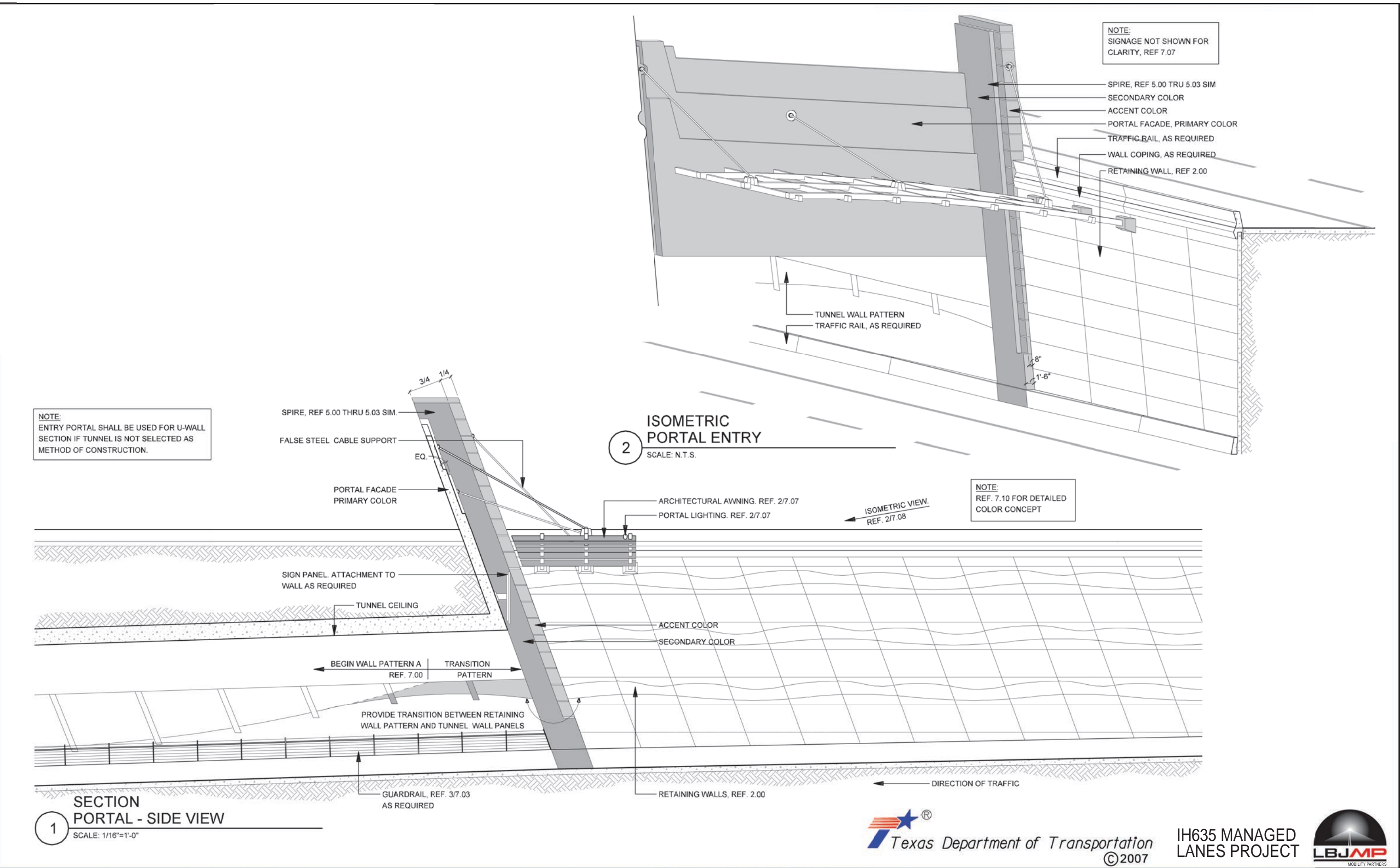
SHEET CONTENTS:  
TUNNEL AESTHETICS

ATTACHMENT:  
15-1A

SHEET NUMBER:  
**7.06**



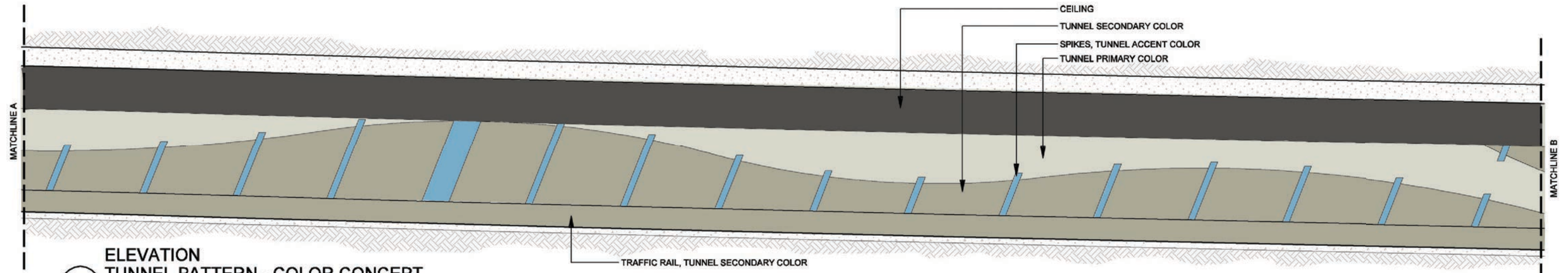




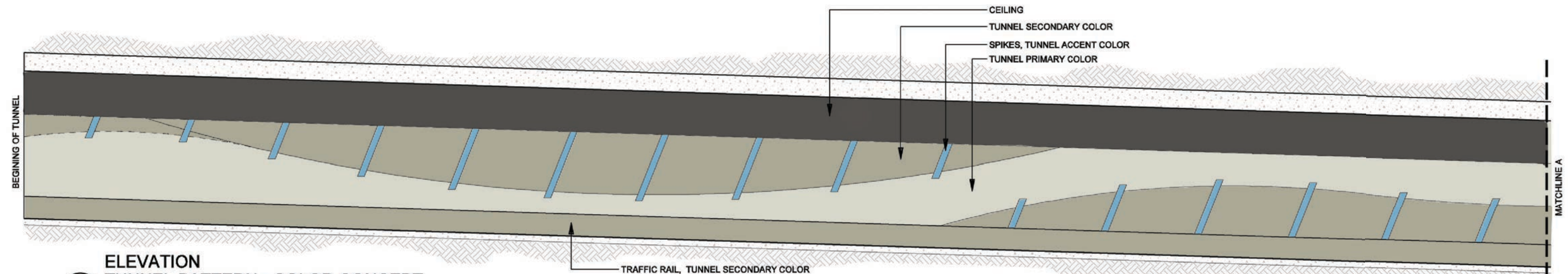
NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: TUNNEL AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>7.08</b>
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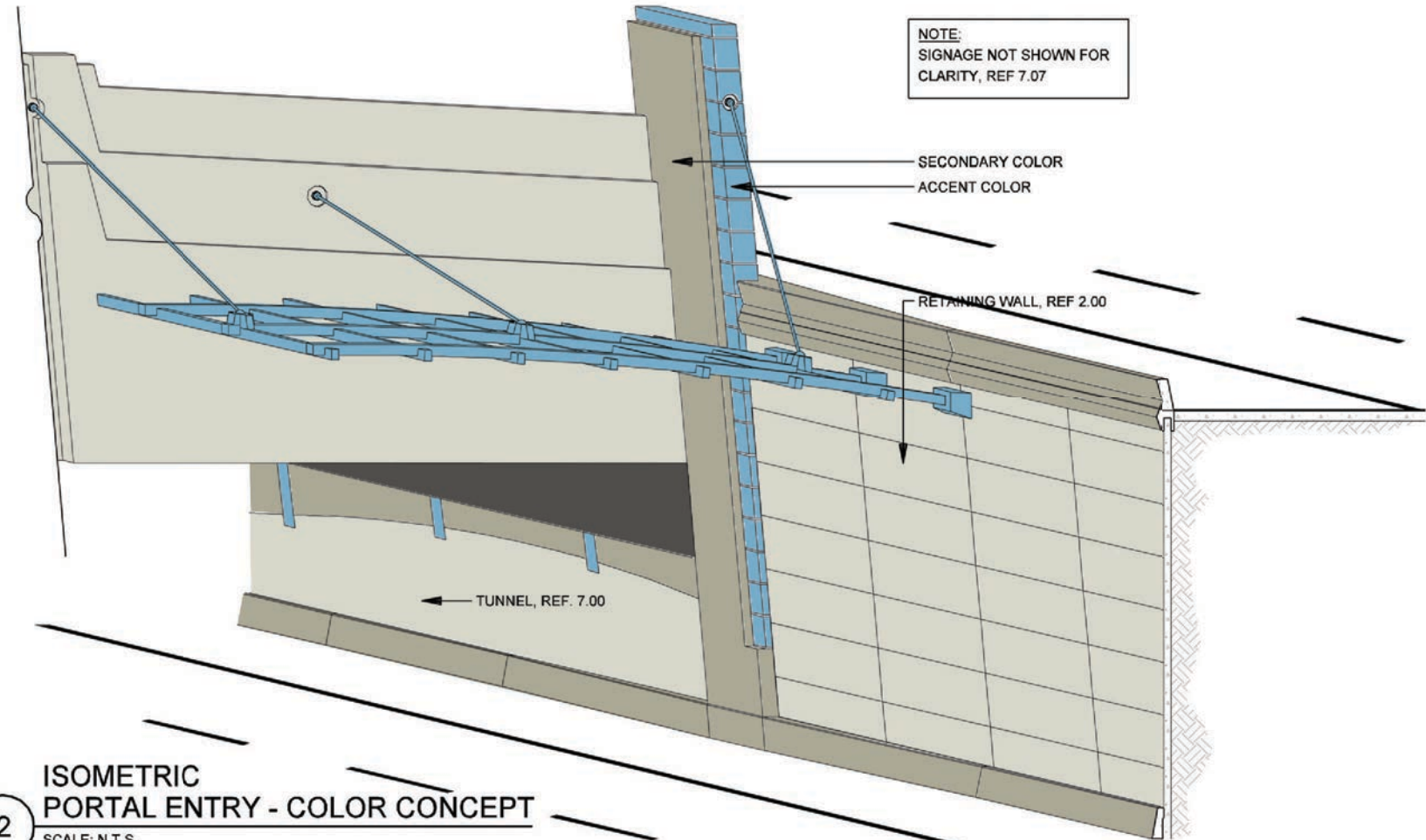
**2**  
**ELEVATION TUNNEL PATTERN - COLOR CONCEPT**  
 SCALE: 1/16"=1'-0"



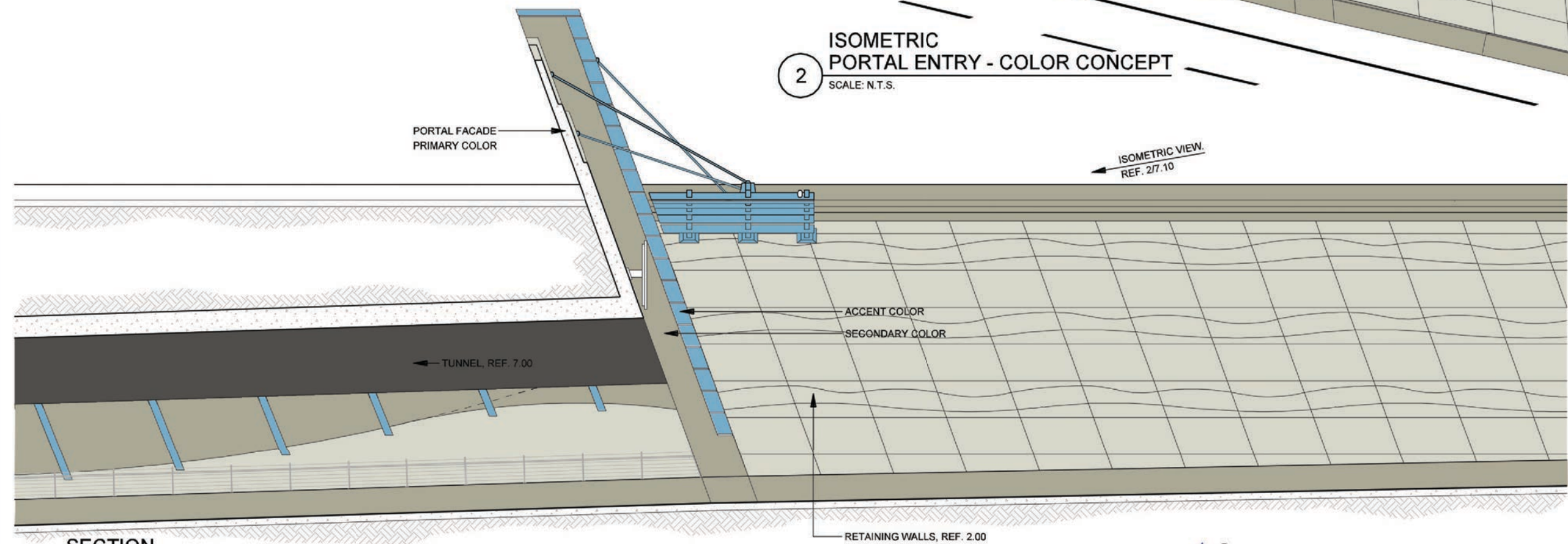
**1**  
**ELEVATION TUNNEL PATTERN - COLOR CONCEPT**  
 SCALE: 1/16"=1'-0"

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: TUNNEL AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>7.09</b>
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**2**  
ISOMETRIC  
PORTAL ENTRY - COLOR CONCEPT  
SCALE: N.T.S.

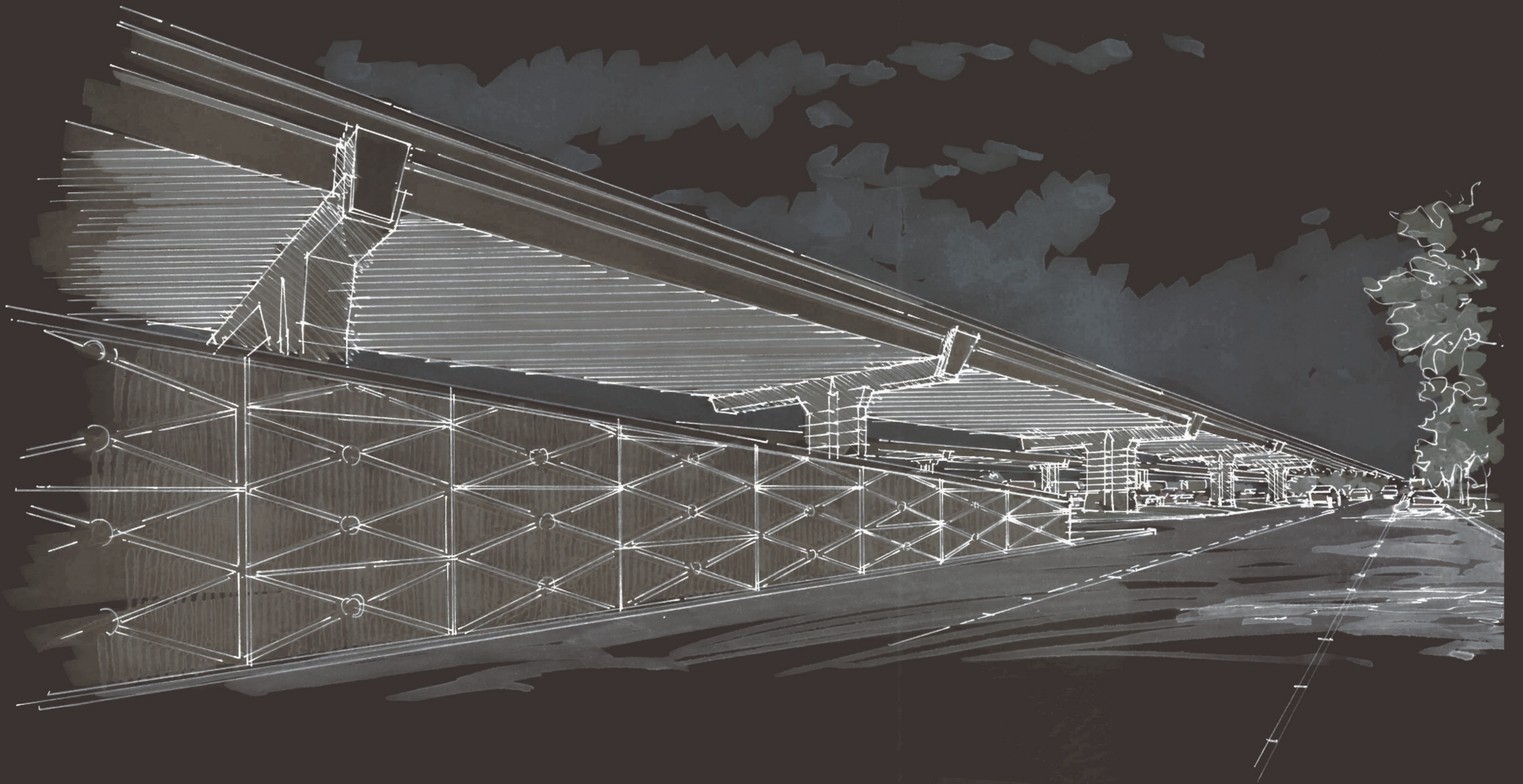


**1**  
SECTION  
PORTAL - COLOR CONCEPT  
SCALE: 1/16"=1'-0"



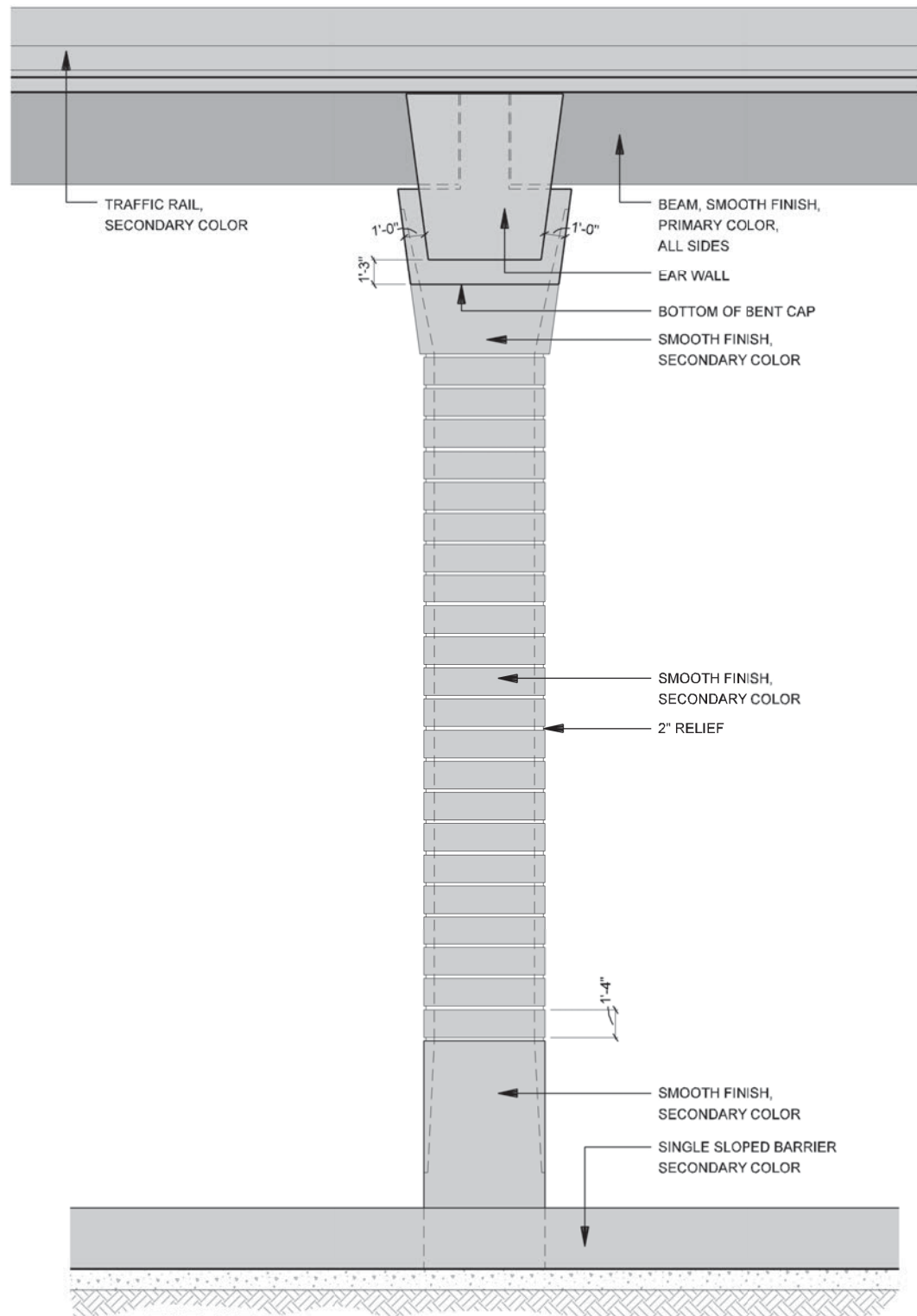
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: TUNNEL AESTHETICS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>7.10</b>
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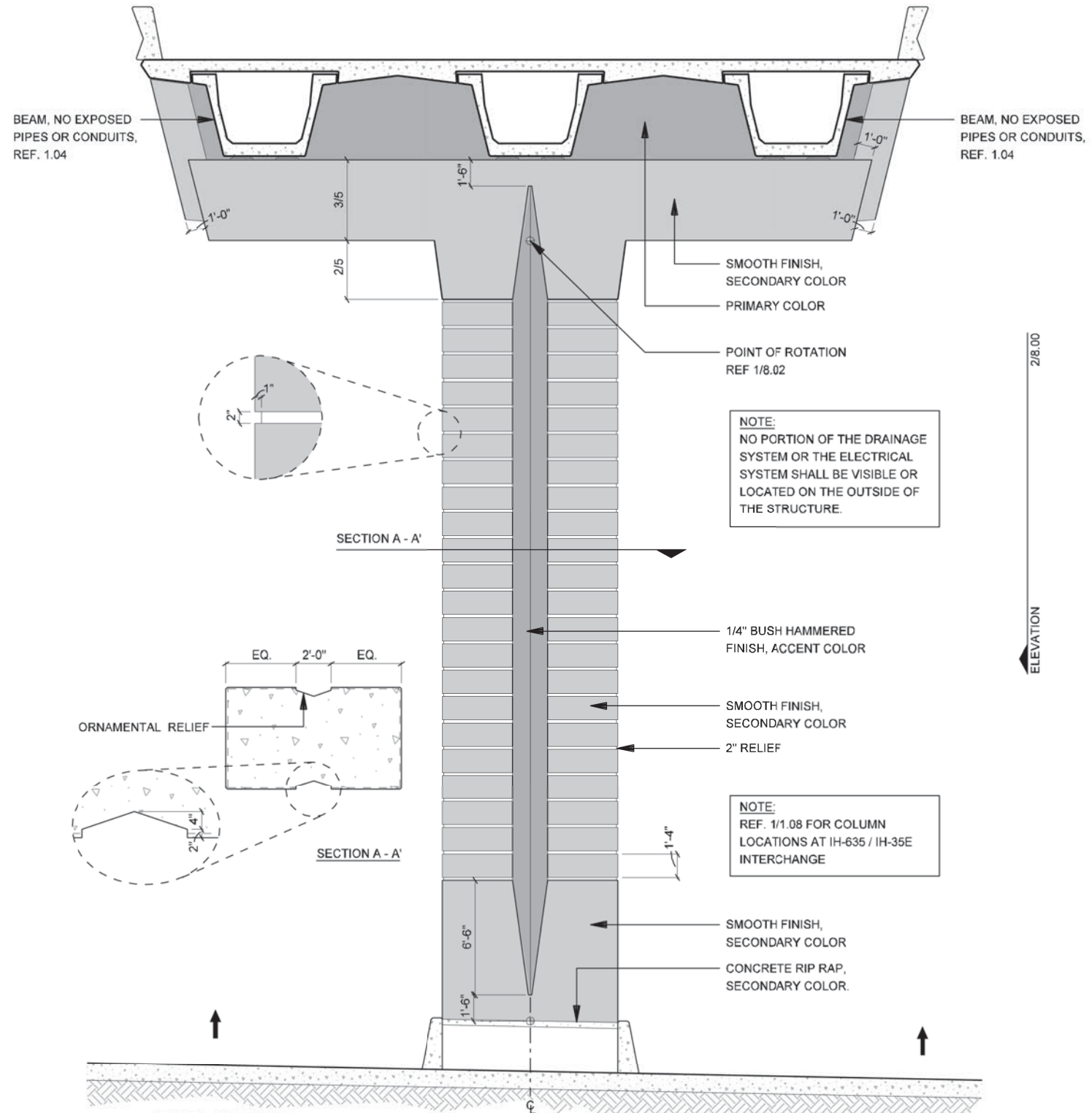


IH-35 CORRIDOR





**2** ELEVATION  
 IH-35E ELEVATED MAINLANES COLUMN - SIDE VIEW  
 SCALE: 1/8"=1'-0"



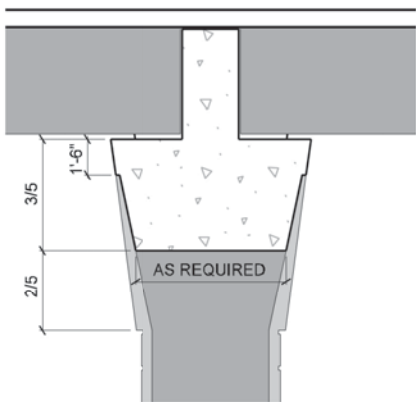
**1** ELEVATION  
 IH-35E ELEVATED MAINLANES COLUMN - FRONT VIEW  
 SCALE: 1/8"=1'-0"

NOTE:  
 REF. 8.07 FOR DETAILED  
 COLOR CONCEPT

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

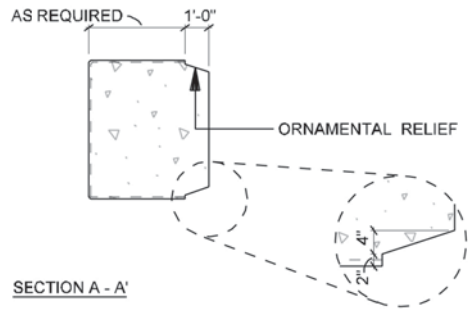
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: IH-35E COLUMNS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>8.00</b>
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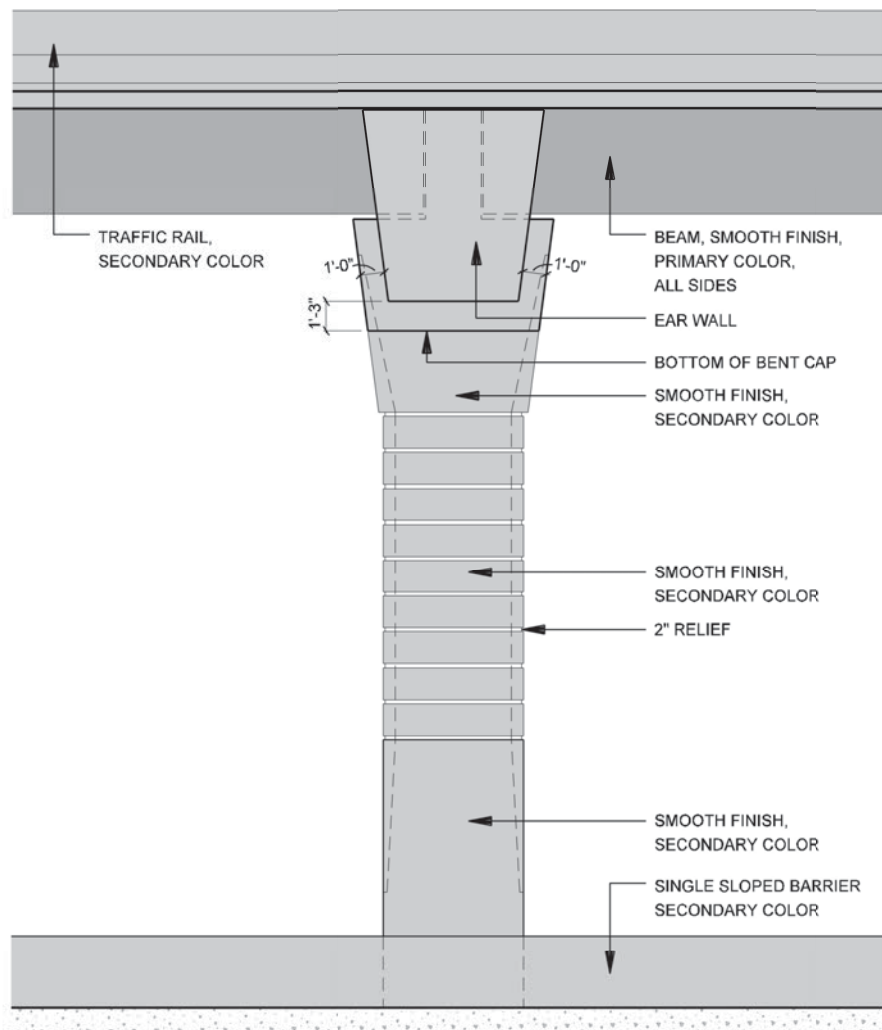


SECTION B - B

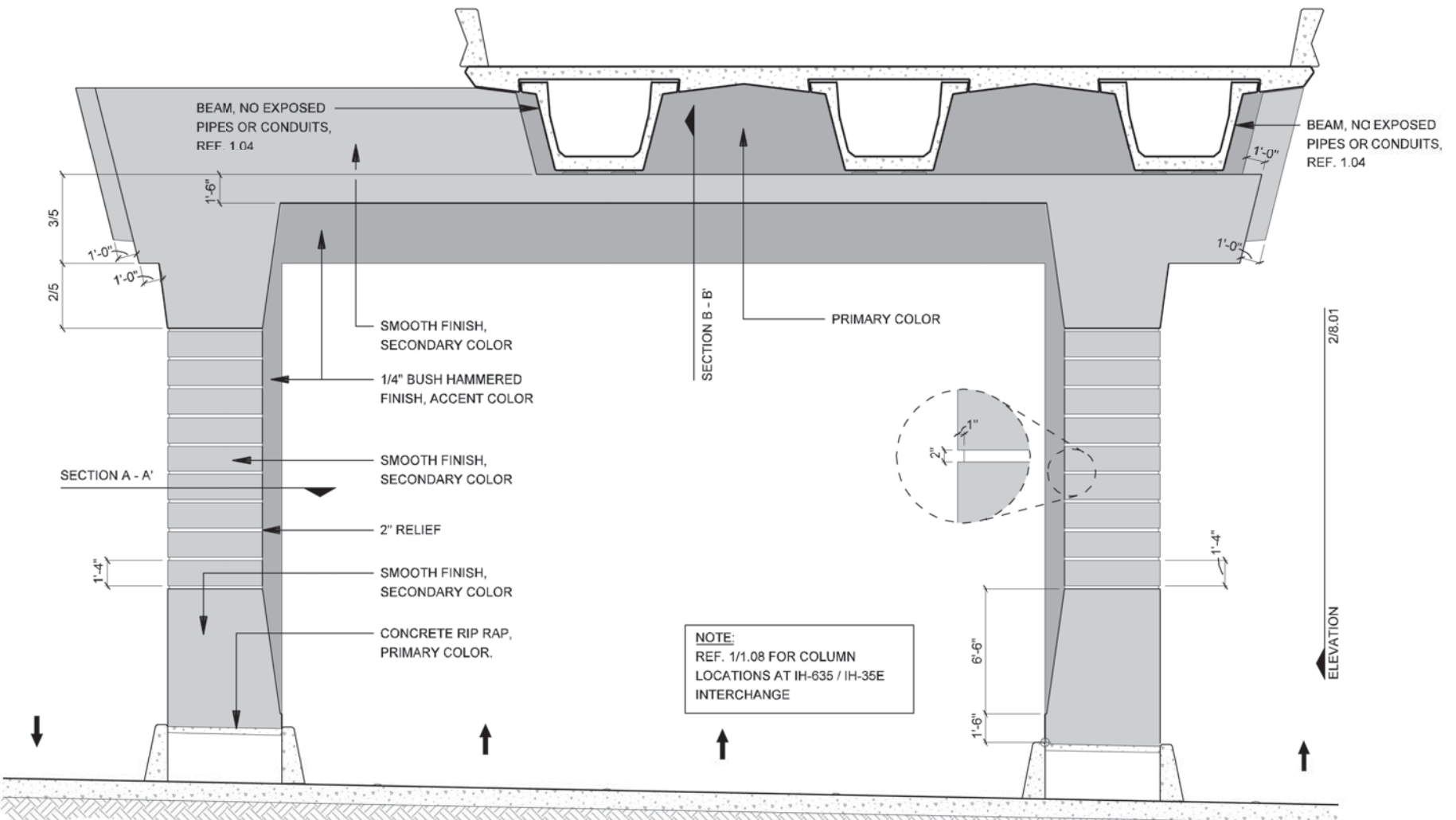
NOTE:  
NO PORTION OF THE DRAINAGE SYSTEM OR THE ELECTRICAL SYSTEM SHALL BE VISIBLE OR LOCATED ON THE OUTSIDE OF THE STRUCTURE.



SECTION A - A'



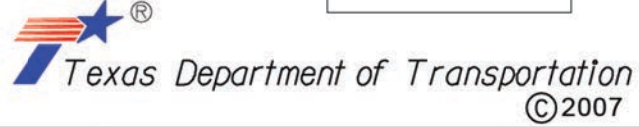
2 ELEVATION  
IH-35E ELEVATED MAINLANES COLUMN - SIDE VIEW  
SCALE: 1/8"=1'-0"



1 ELEVATION  
IH-35E ELEVATED MAINLANES COLUMN - FRONT VIEW  
SCALE: 1/8"=1'-0"

NOTE:  
REF. 1/1.08 FOR COLUMN LOCATIONS AT IH-635 / IH-35E INTERCHANGE

NOTE:  
REF. 8.07 FOR DETAILED COLOR CONCEPT. SIM

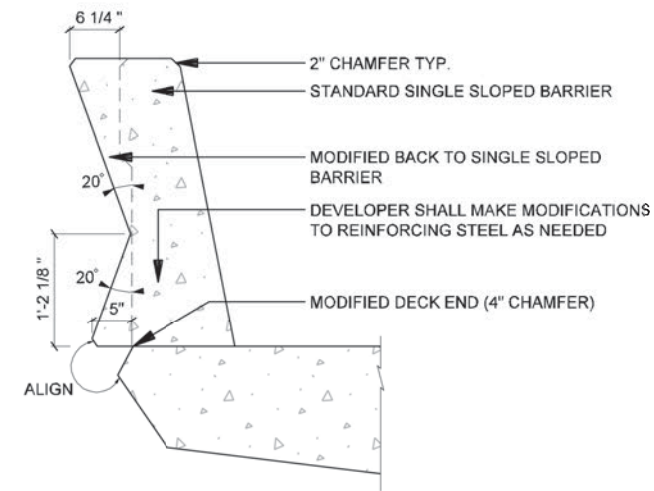


IH635 MANAGED LANES PROJECT

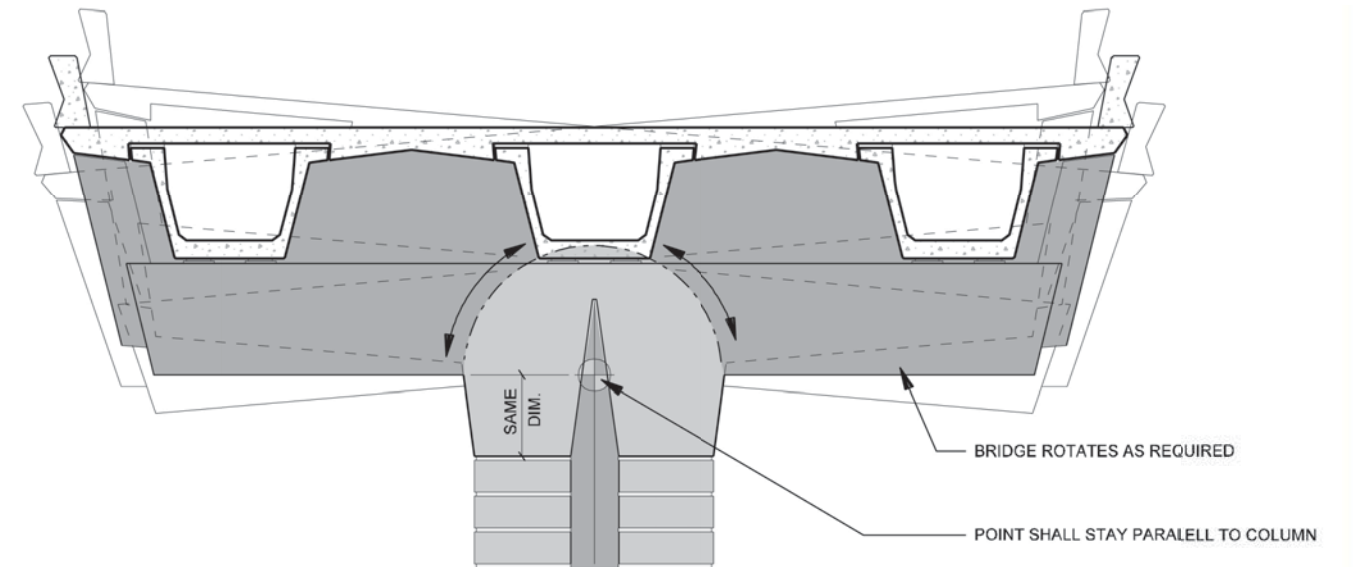


NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: IH-35E COLUMNS	ATTACHMENT: 15-1A	SHEET NUMBER: 8.01
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**SECTION 2**  
**MODIFIED SINGLE SLOPED BARRIER**  
 SCALE: 1/2"=1'-0"

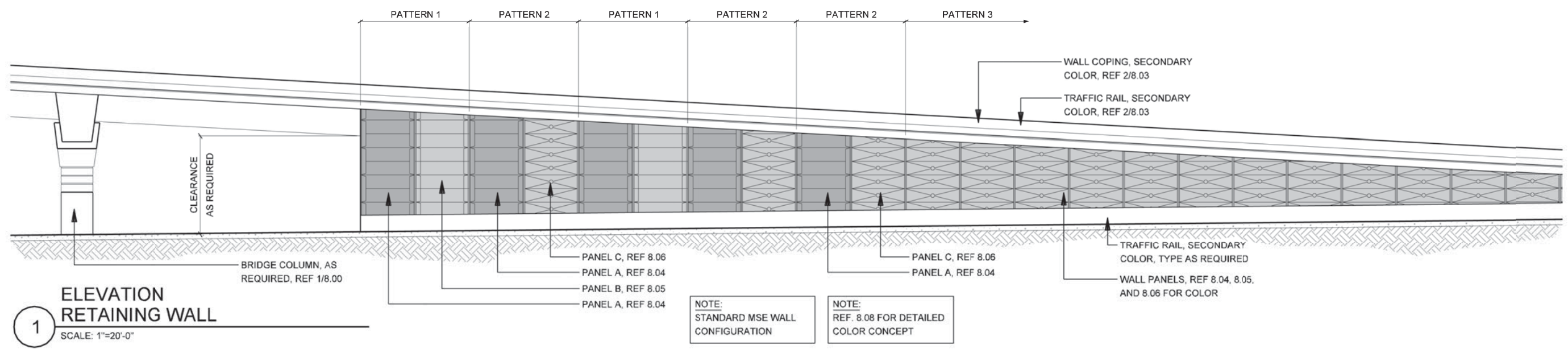
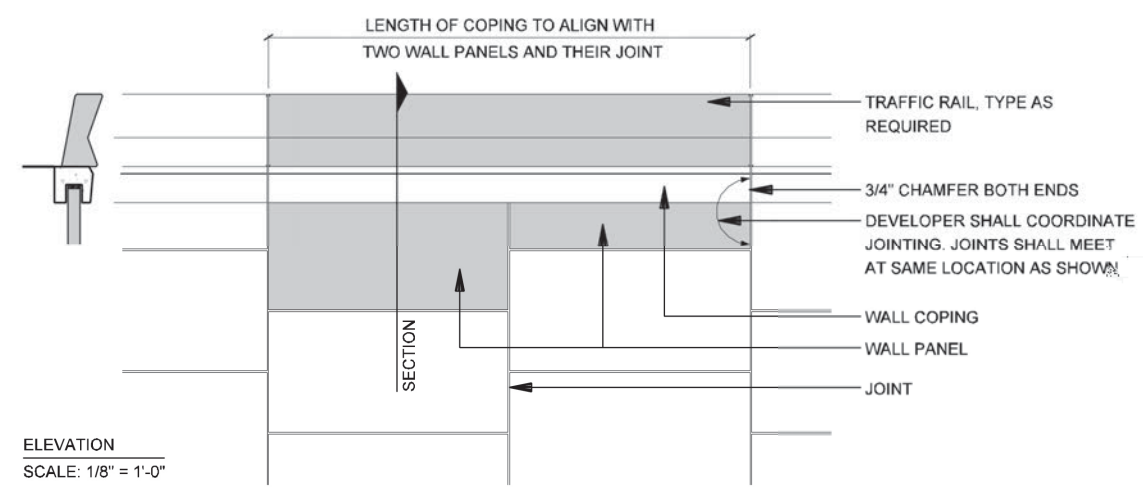
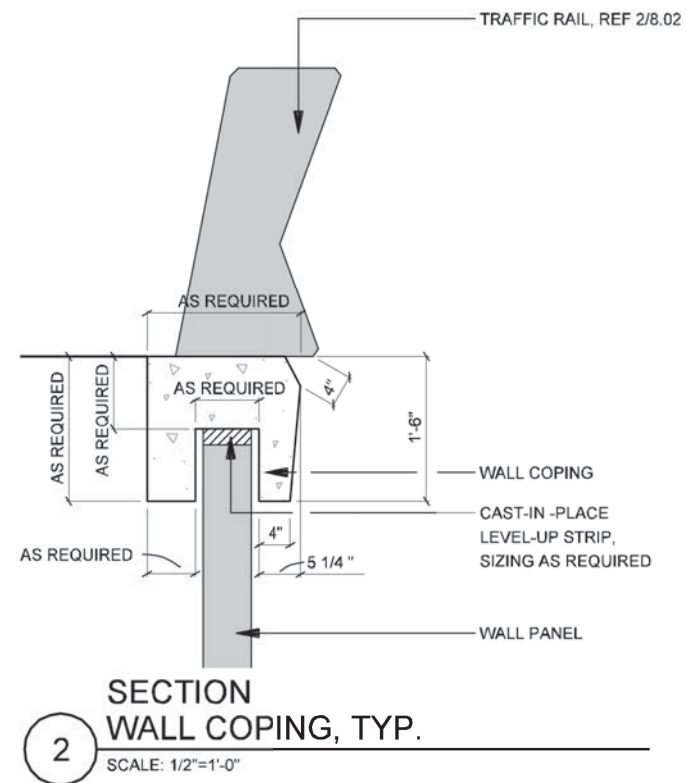


**ELEVATION 1**  
**COLUMN - ROTATION DIAGRAM**  
 SCALE: 1/8"=1'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

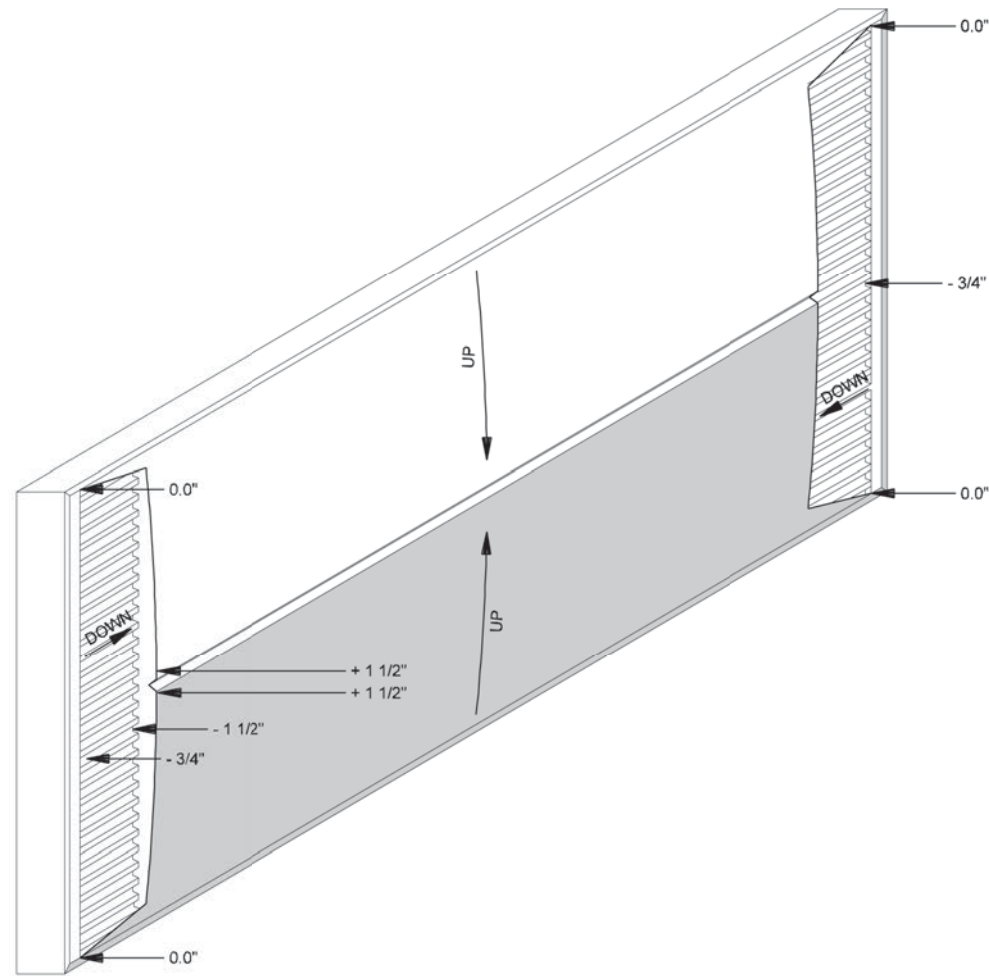
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: IH-35E COLUMNS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>8.02</b>
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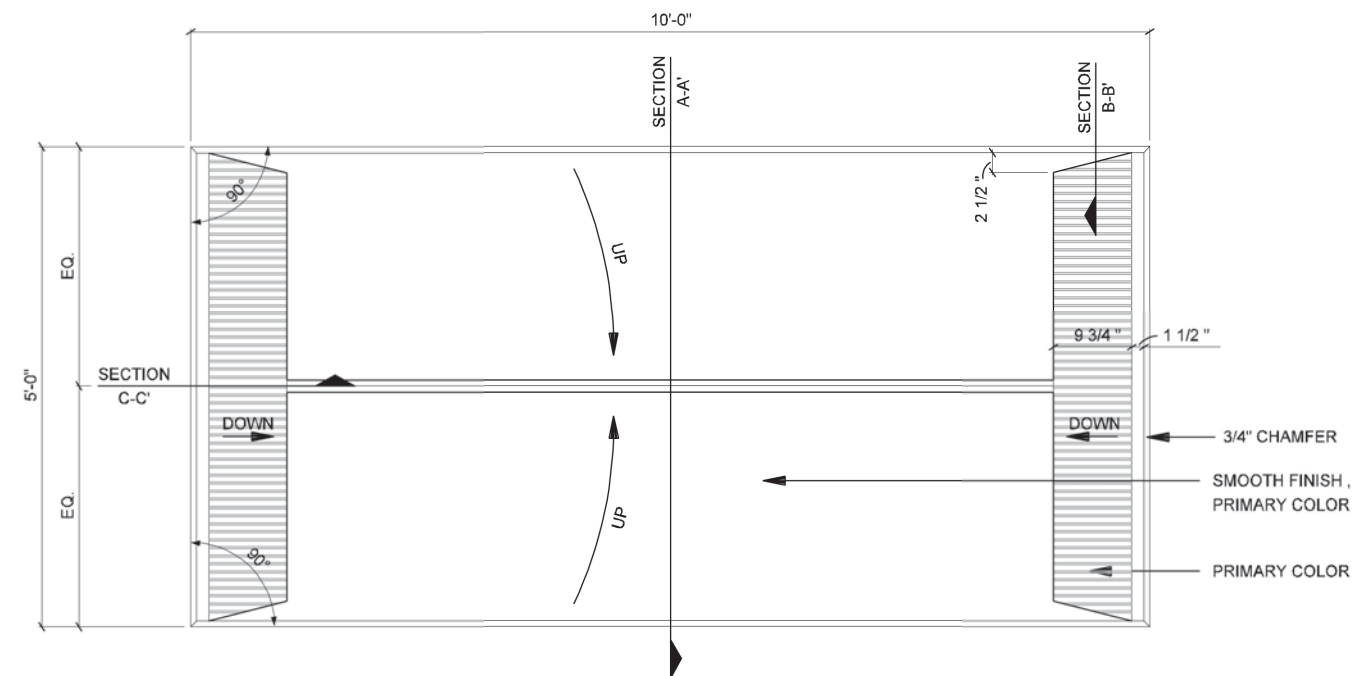
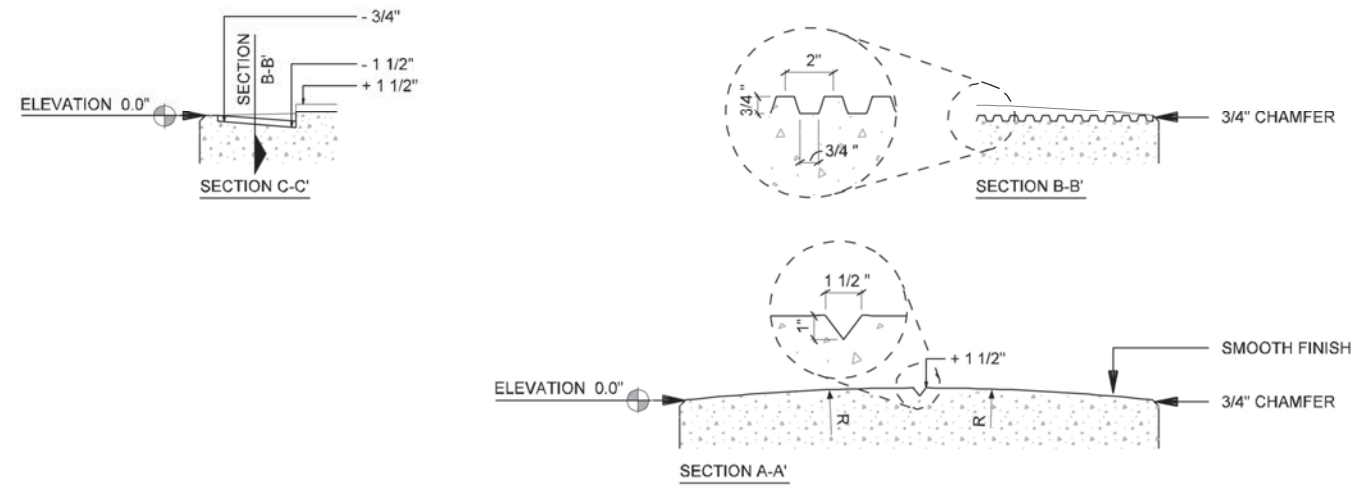


NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: IH-35E RETAINING WALLS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>8.03</b>
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ISOMETRIC VIEW



SECTION WALL PANEL A  
SCALE: 1/2"=1'-0"

**NOTES:**

- PANELS ARE BASED ON A STANDARD STAGGERED MSE 5 x 10 PANEL (50 SF). CONTRACTOR TO PROVIDE DETAILED DRAWINGS WITH SAME DESIGN AND DESIGN INTENT IF ANOTHER METHOD OF CONSTRUCTION IS USED



IH635 MANAGED LANES PROJECT



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

IH-35E RETAINING WALLS

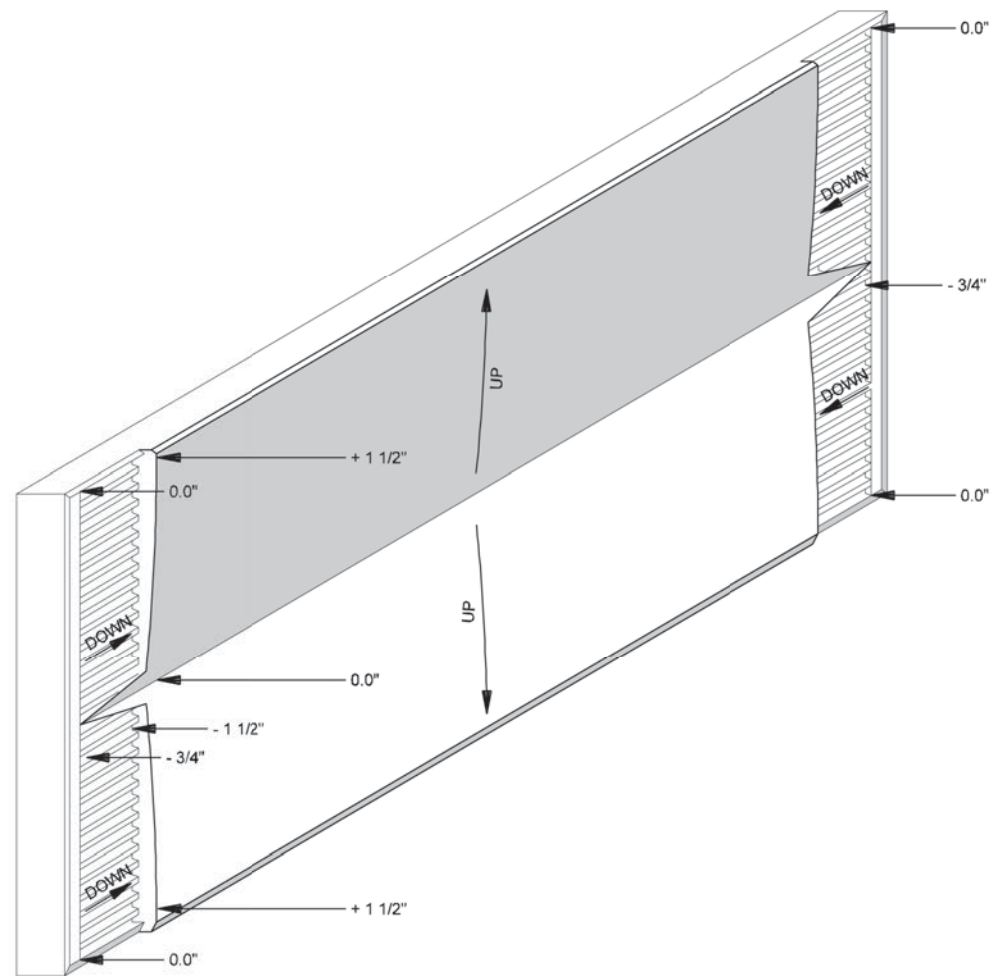
ATTACHMENT:

15-1A

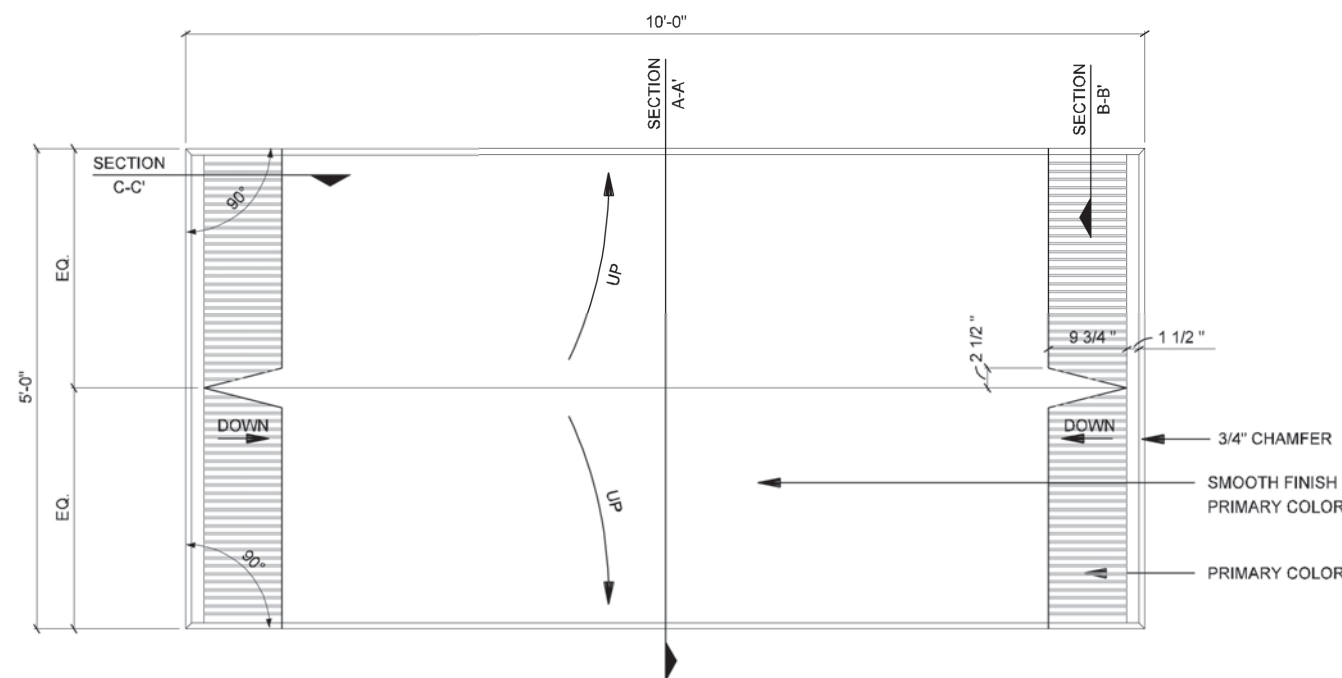
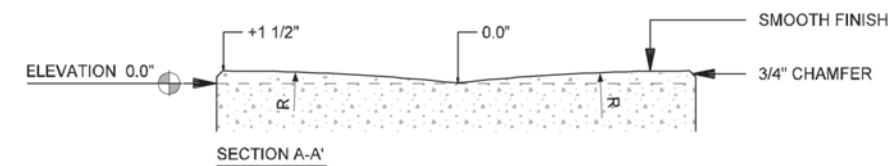
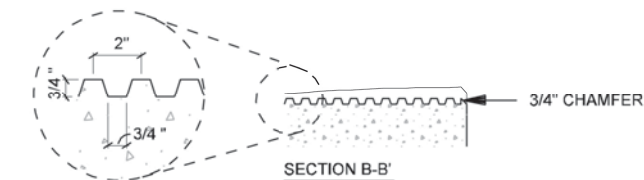
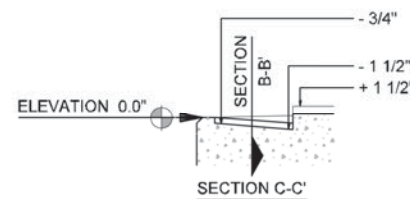
SHEET NUMBER:

8.04





ISOMETRIC VIEW



SECTION WALL PANEL B  
SCALE: 1/2"=1'-0"

**NOTES:**

- PANELS ARE BASED ON A STANDARD STAGGERED MSE 5 x 10 PANEL (50 SF). CONTRACTOR TO PROVIDE DETAILED DRAWINGS WITH SAME DESIGN AND DESIGN INTENT IF ANOTHER METHOD OF CONSTRUCTION IS USED



IH635 MANAGED LANES PROJECT



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

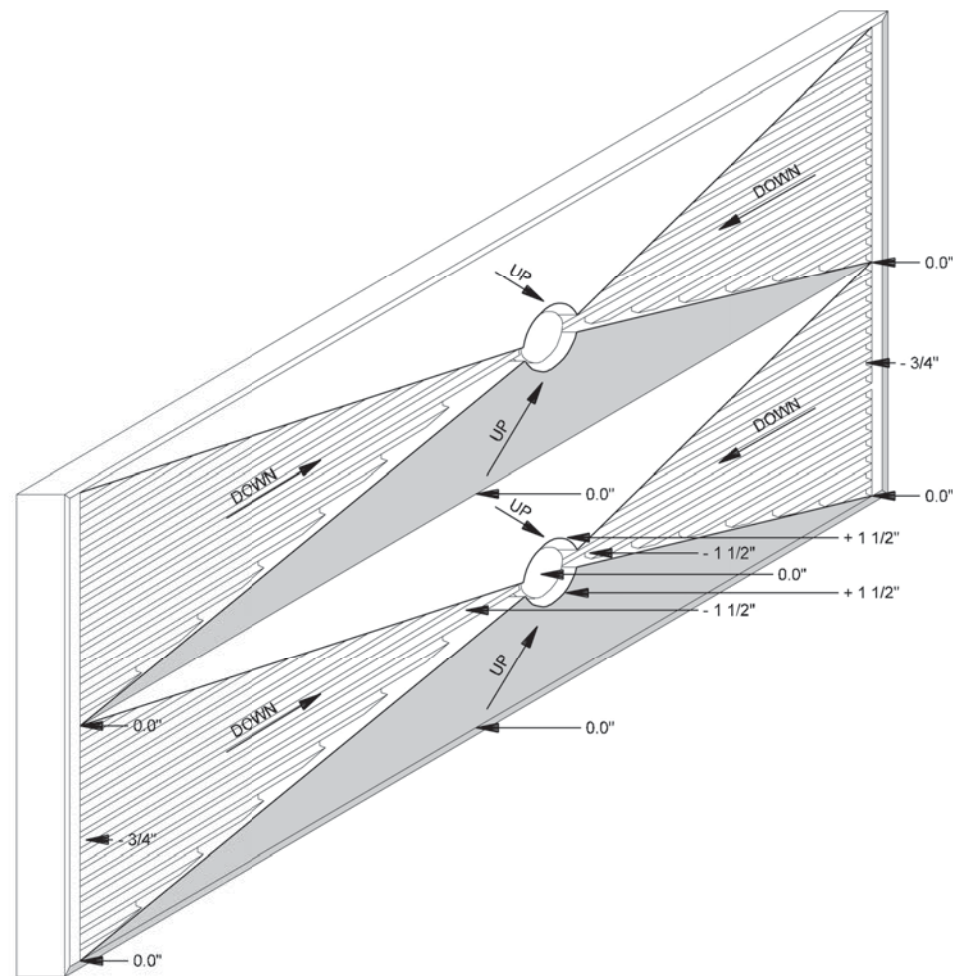
IH-35E RETAINING WALLS

ATTACHMENT:

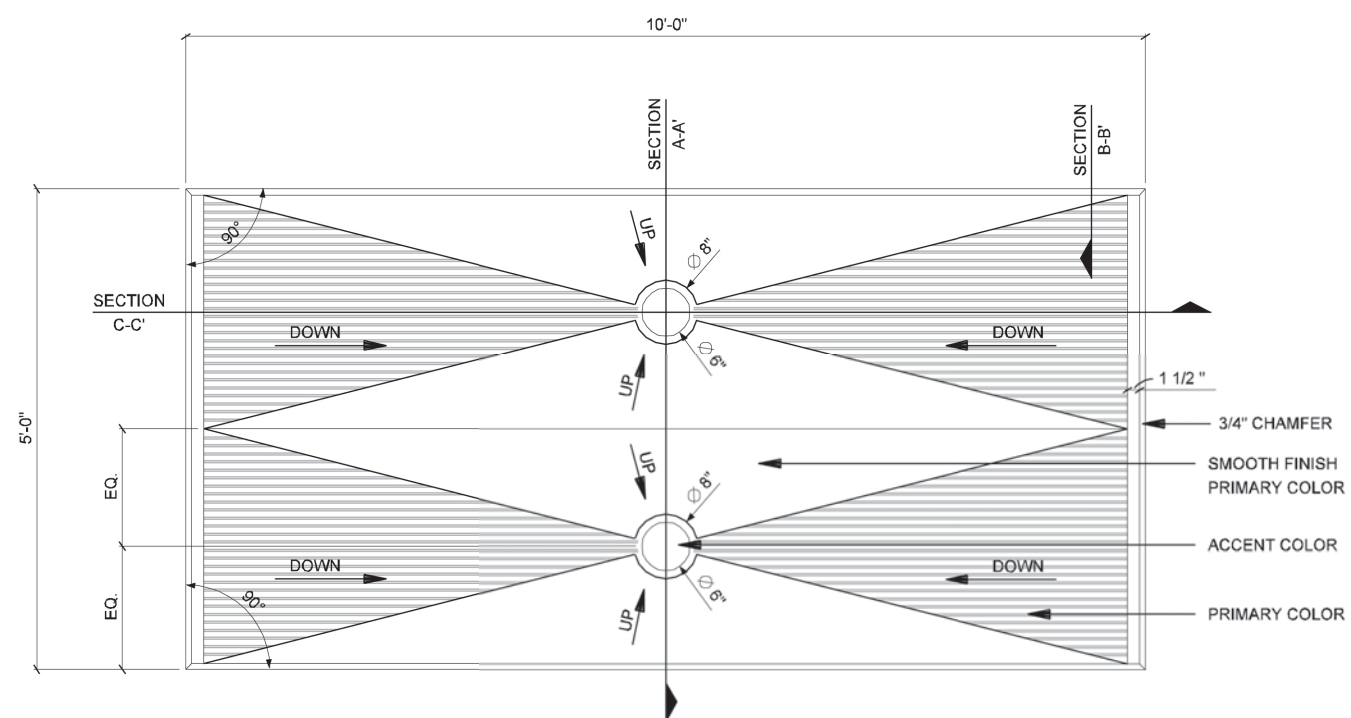
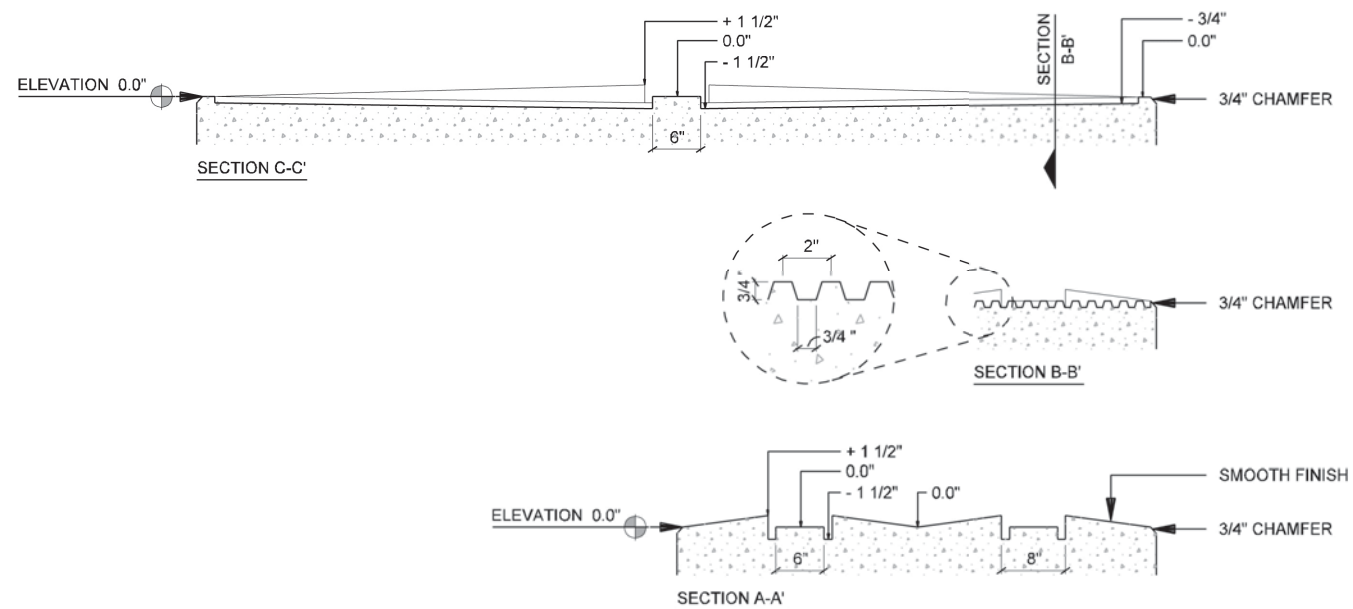
15-1A

SHEET NUMBER:

8.05



ISOMETRIC VIEW



SECTION WALL PANEL C  
SCALE: 1/2"=1'-0"

**NOTES:**

- PANELS ARE BASED ON A STANDARD STAGGERED MSE 5 x 10 PANEL (50 SF). CONTRACTOR TO PROVIDE DETAILED DRAWINGS WITH SAME DESIGN AND DESIGN INTENT IF ANOTHER METHOD OF CONSTRUCTION IS USED



IH635 MANAGED LANES PROJECT



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

IH-35E RETAINING WALLS

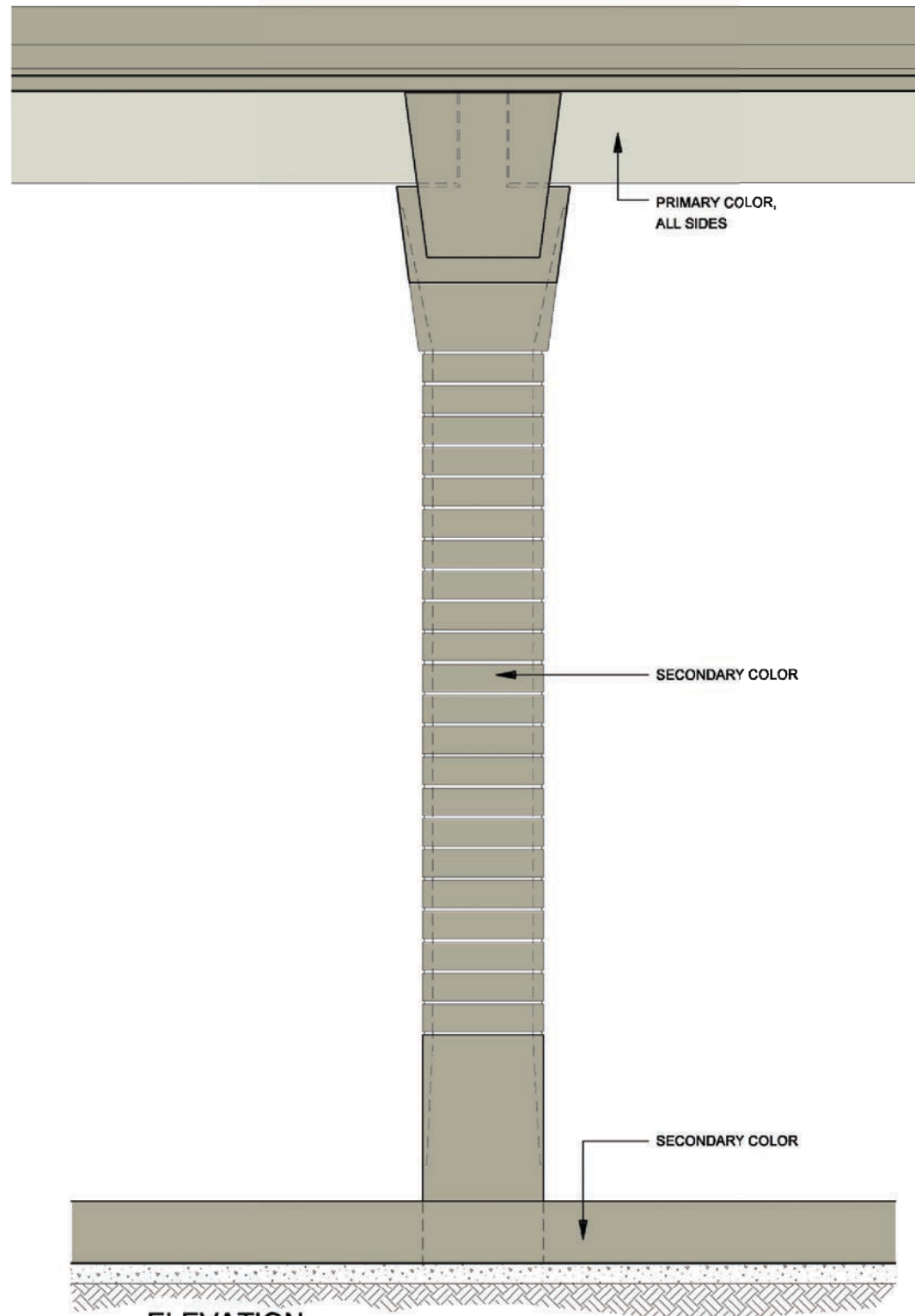
ATTACHMENT:

15-1A

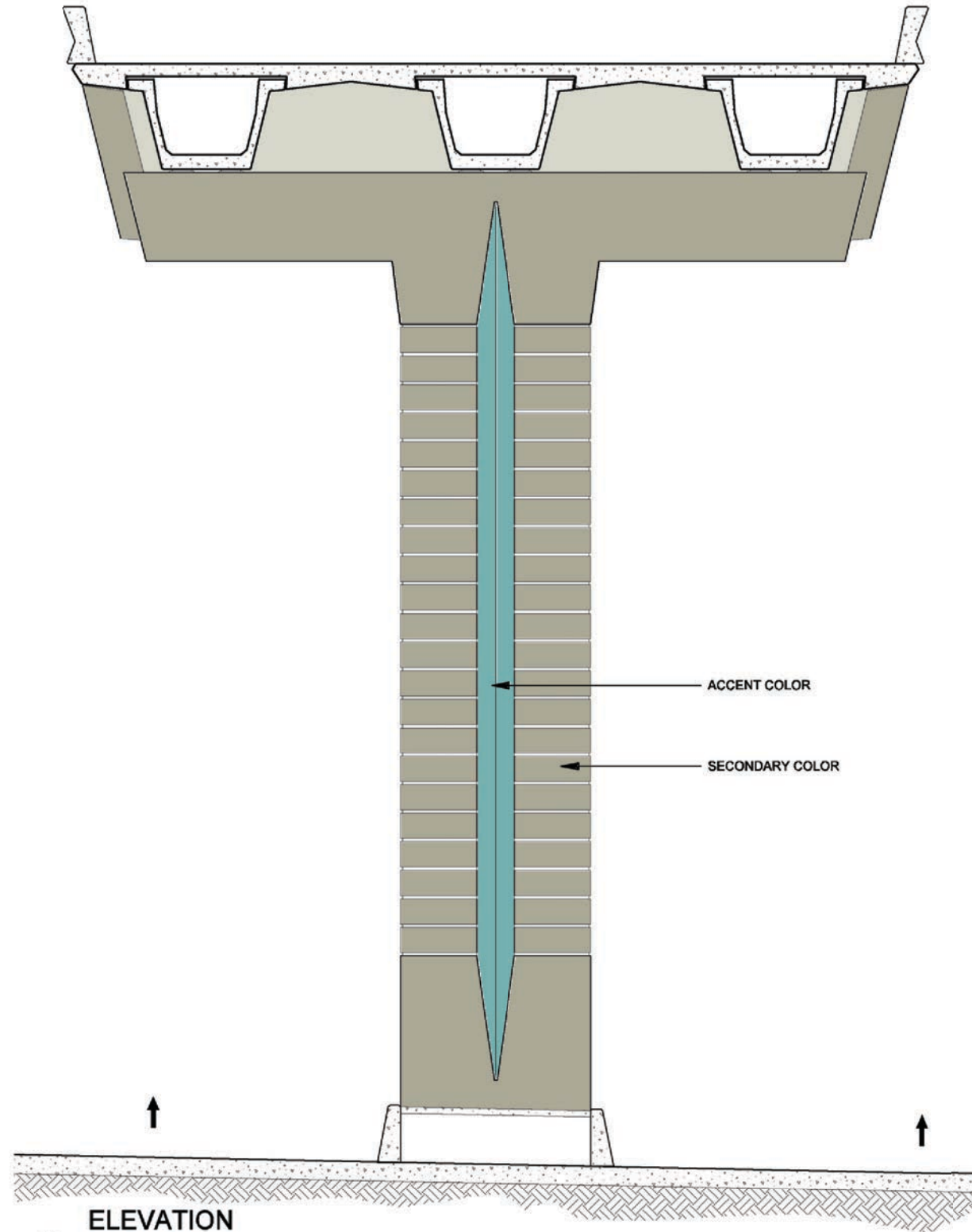
SHEET NUMBER:

8.06



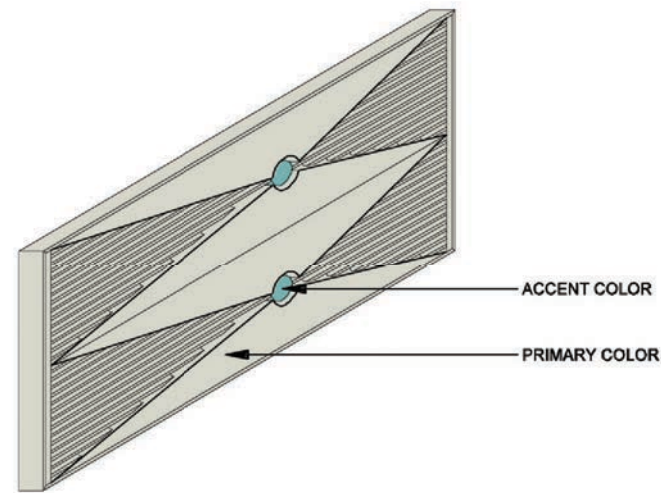


**2** ELEVATION  
 IH-35E ELEVATED MAINLANES COLUMN - COLOR CONCEPT  
 SCALE: 1/8"=1'-0"

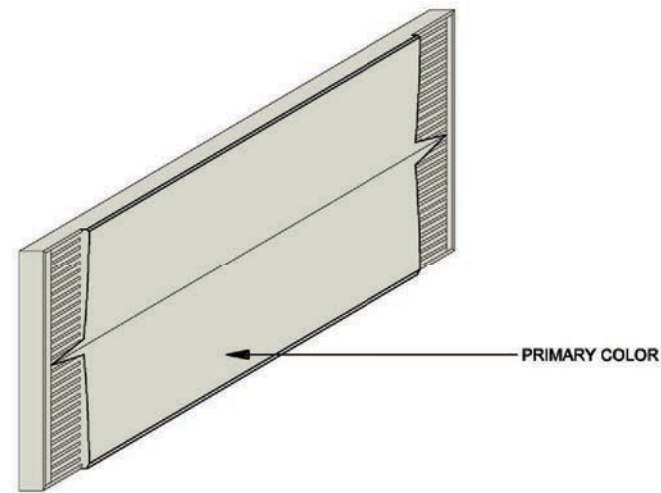


**1** ELEVATION  
 IH-35E ELEVATED MAINLANES COLUMN - COLOR CONCEPT  
 SCALE: 1/8"=1'-0"

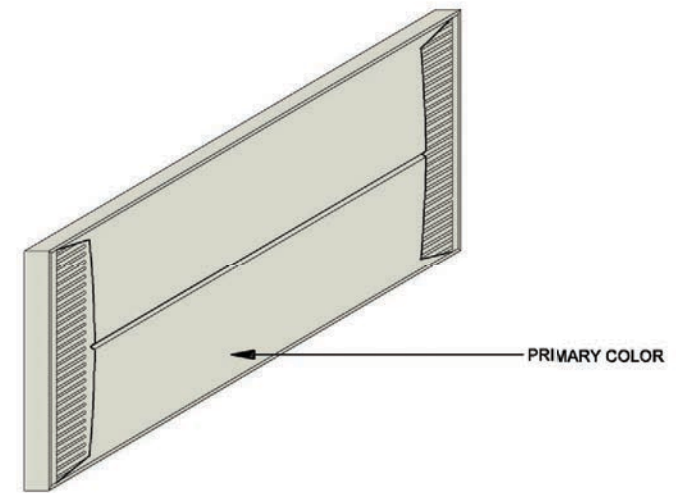
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: IH-35E COLUMNS	ATTACHMENT: 15-1A	SHEET NUMBER: <b>8.07</b>
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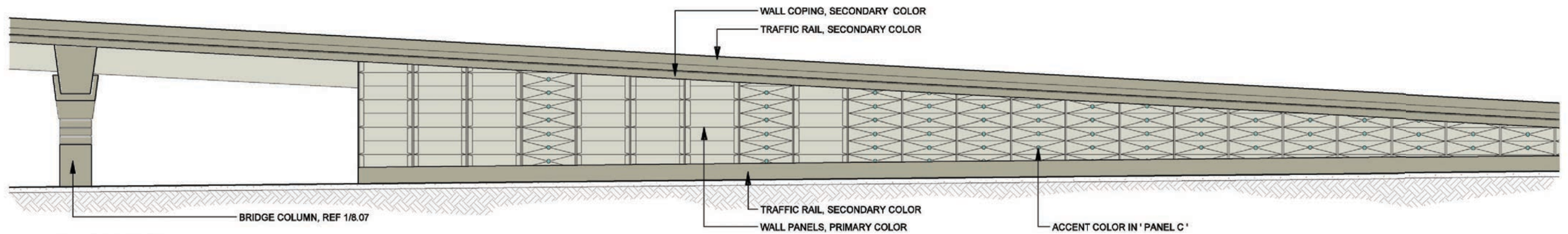
4 ISOMETRIC WALL PANEL C - COLOR CONCEPT  
SCALE: 1/4"=1'-0"



3 ISOMETRIC WALL PANEL B - COLOR CONCEPT  
SCALE: 1/4"=1'-0"



2 ISOMETRIC WALL PANEL A - COLOR CONCEPT  
SCALE: 1/4"=1'-0"



1 ELEVATION RETAINING WALL - COLOR CONCEPT  
SCALE: 1"=20'-0"

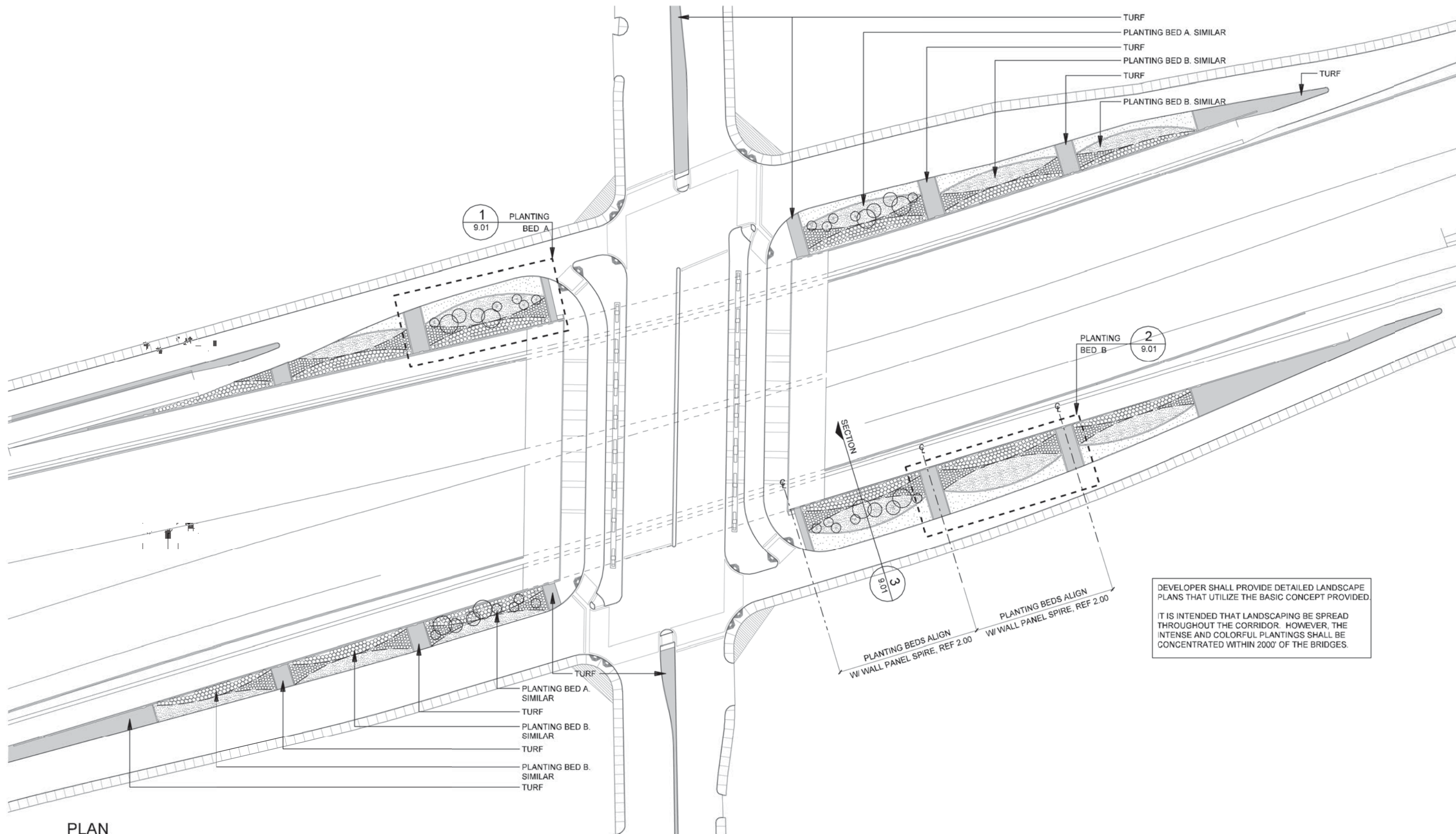
DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: IH-35E RETAINING WALLS	ATTACHMENT: 15-1A	SHEET NUMBER: 8.08
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LANDSCAPING





DEVELOPER SHALL PROVIDE DETAILED LANDSCAPE PLANS THAT UTILIZE THE BASIC CONCEPT PROVIDED.

IT IS INTENDED THAT LANDSCAPING BE SPREAD THROUGHOUT THE CORRIDOR. HOWEVER, THE INTENSE AND COLORFUL PLANTINGS SHALL BE CONCENTRATED WITHIN 2000' OF THE BRIDGES.

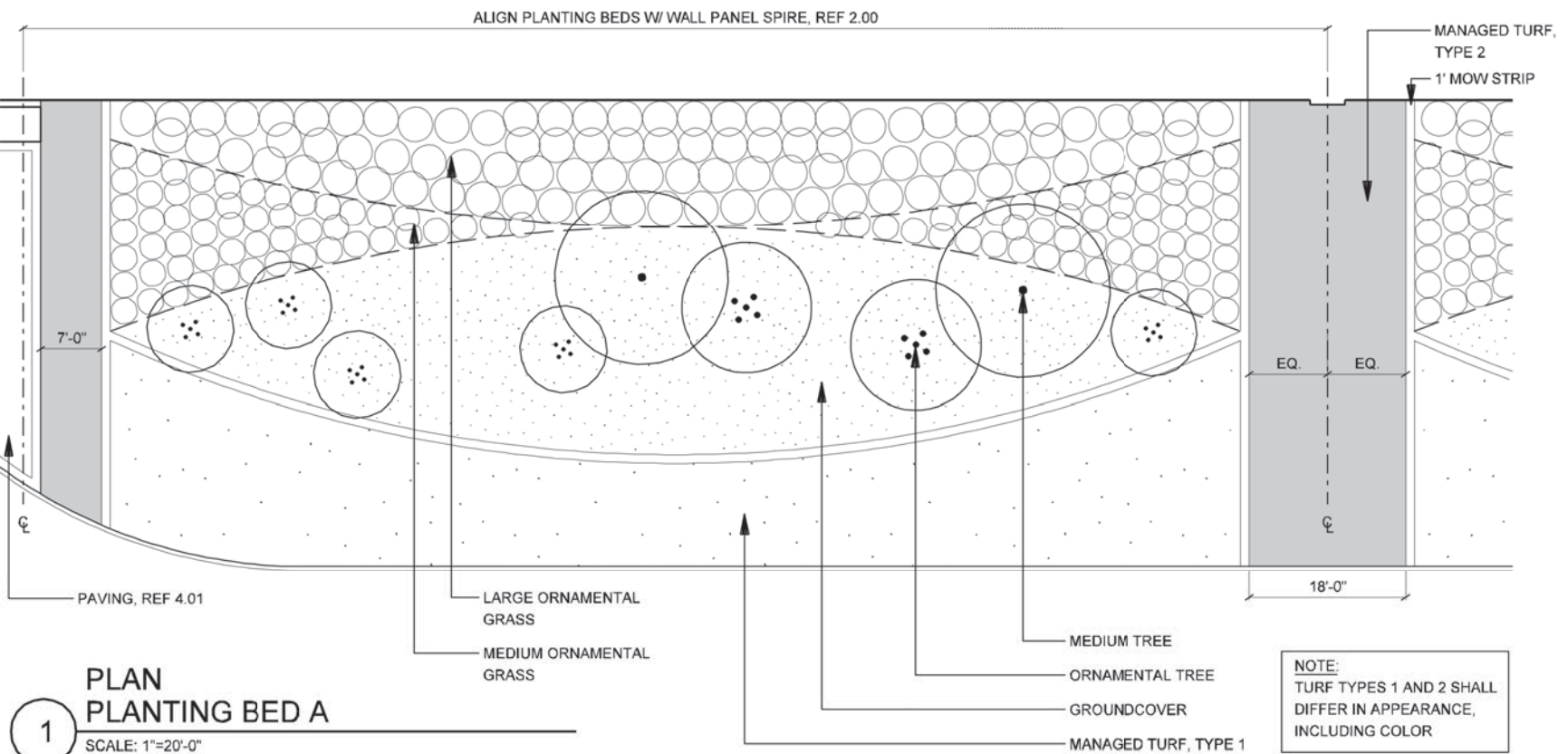
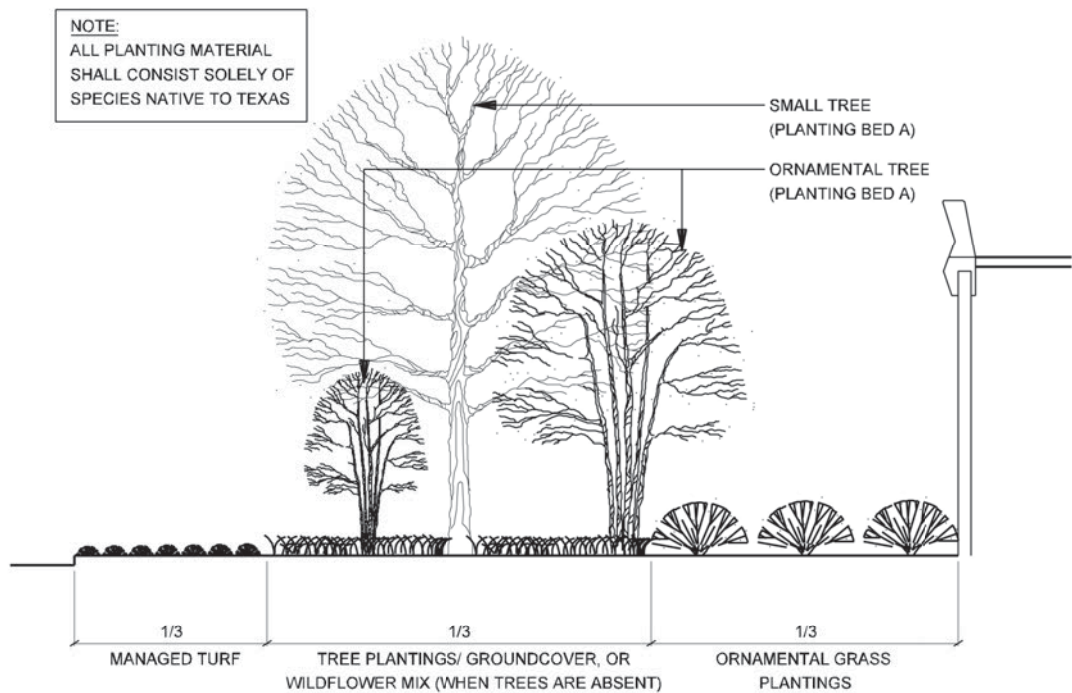
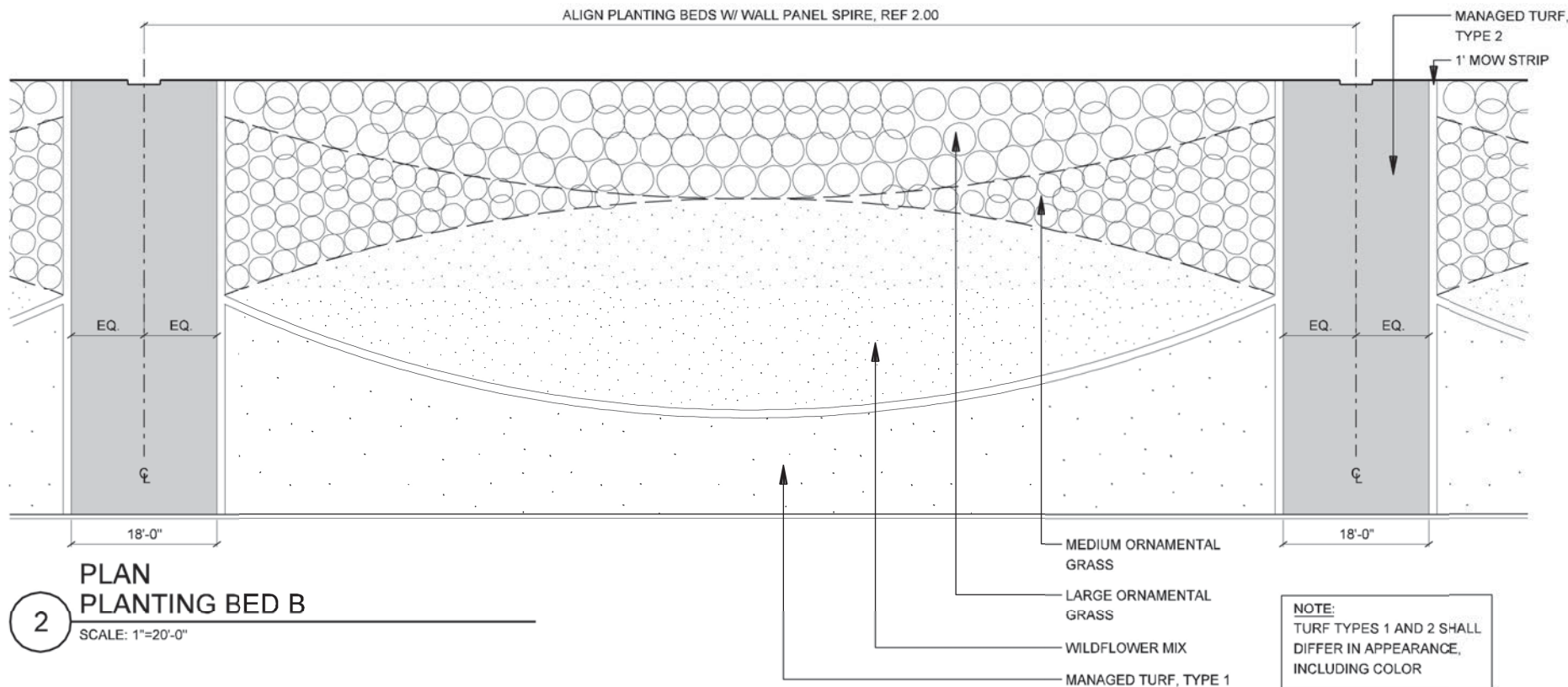
1 PLAN LANDSCAPE  
SCALE: 1"=100'-0"



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: LANDSCAPE PLAN	ATTACHMENT: 15-1A	SHEET NUMBER: <b>9.00</b>
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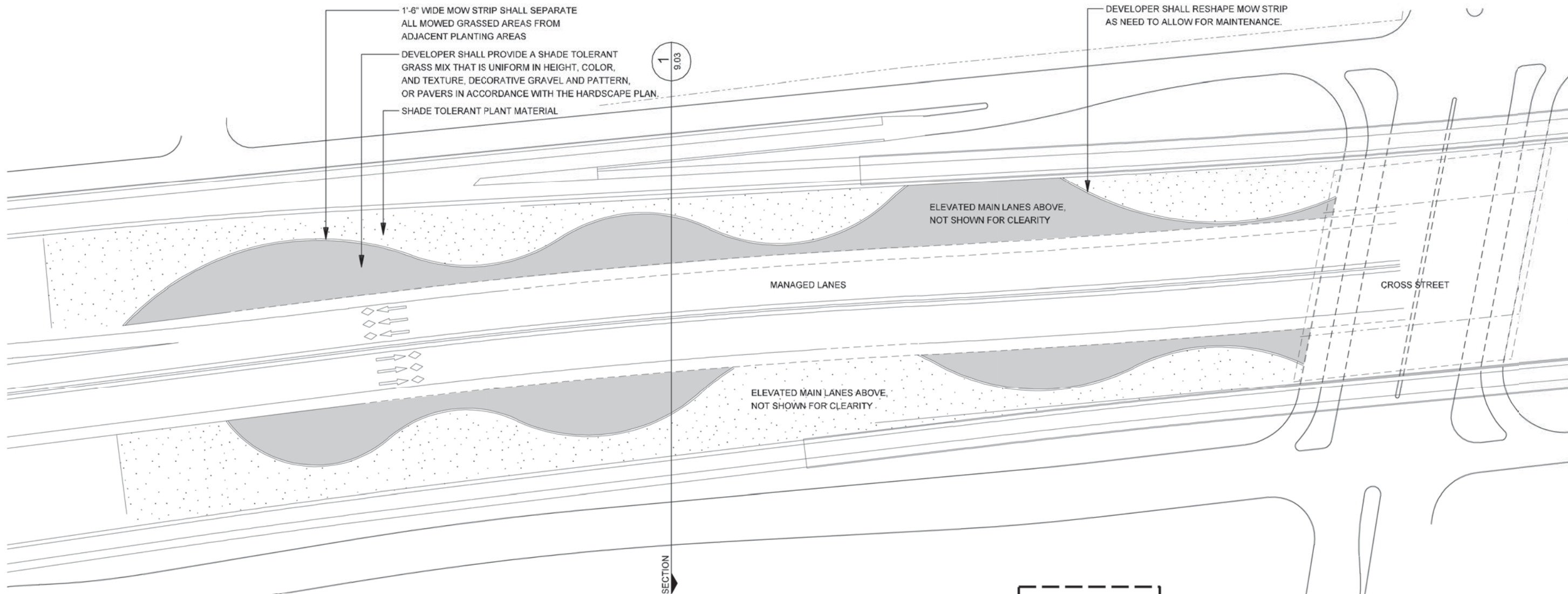




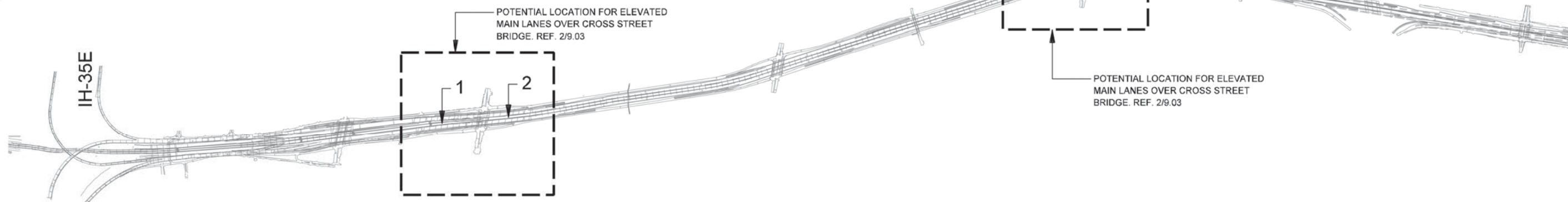
**3** SECTION PLANTING BEDS  
SCALE: 1"=10'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE: 09/12/2007	SCALE: AS NOTED	SHEET CONTENTS: LANDSCAPE PLAN	ATTACHMENT: 15-1A	SHEET NUMBER: <b>9.01</b>
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2 PLAN LANDSCAPE - AT ELEVATED MAIN LANES  
SCALE: 1"=100'-0"



1 PLAN LANDSCAPE AT ELEVATED MAIN LANES - LOCATIONS PER SCHEMATIC  
SCALE: N.T.S.



NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:  
09/12/2007

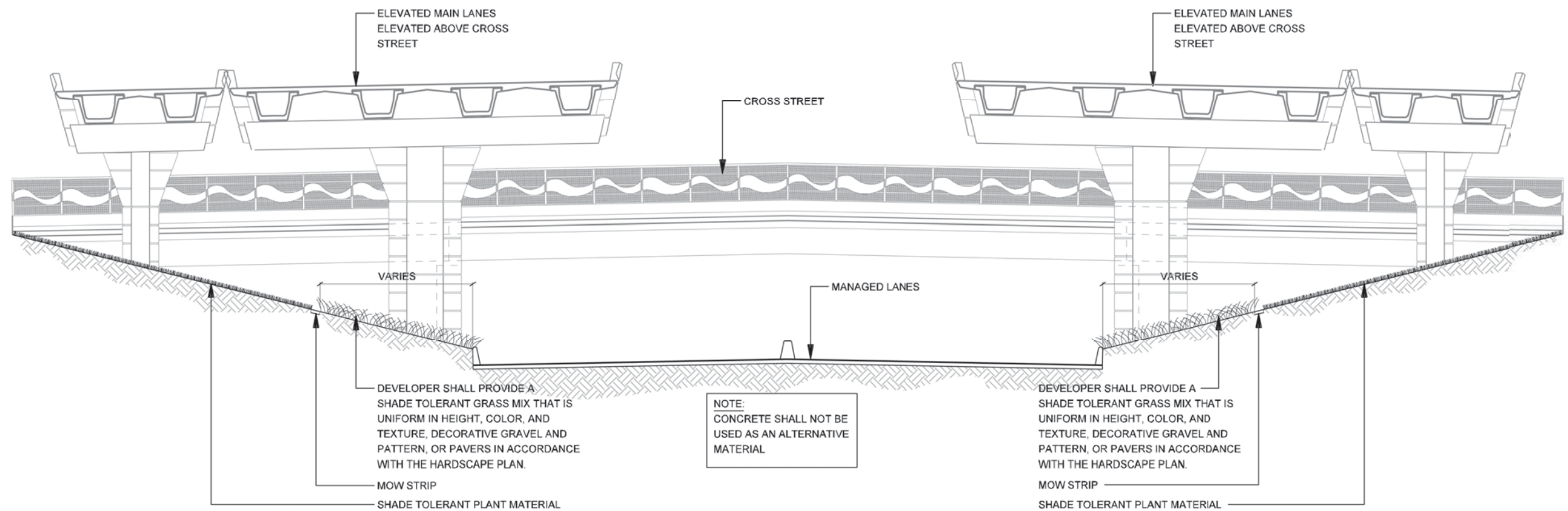
SCALE:  
AS NOTED

SHEET CONTENTS:  
LANDSCAPE PLAN

ATTACHMENT:  
15-1A

SHEET NUMBER:  
9.02





1 SECTION  
LANDSCAPE AT ELEVATED MAIN LANES  
SCALE: 1"=20'-0"

NOTE: SHADING USED ON THE SHEET DOES NOT INDICATE USE OF COLOR. THE SHADING IS INTENDED TO AID IN THE VISUAL CLARITY OF THE DETAILS

DATE:

09/12/2007

SCALE:

AS NOTED

SHEET CONTENTS:

LANDSCAPE PLAN

ATTACHMENT:

15-1A

SHEET NUMBER:

9.03