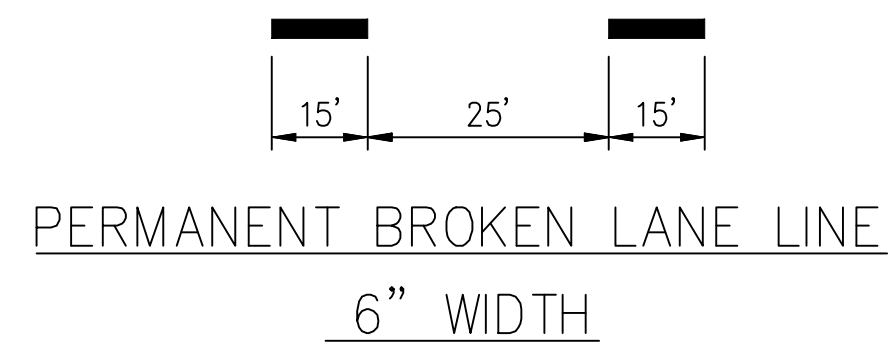
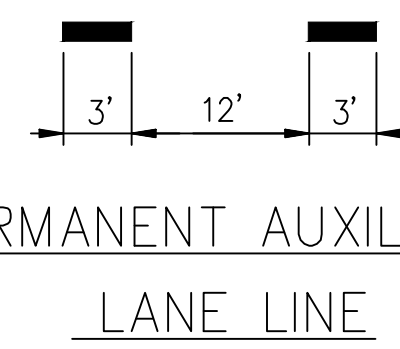


SHOULDER CROSSHATCHING FOR EXTRA WIDE SHOULDERS (>18')



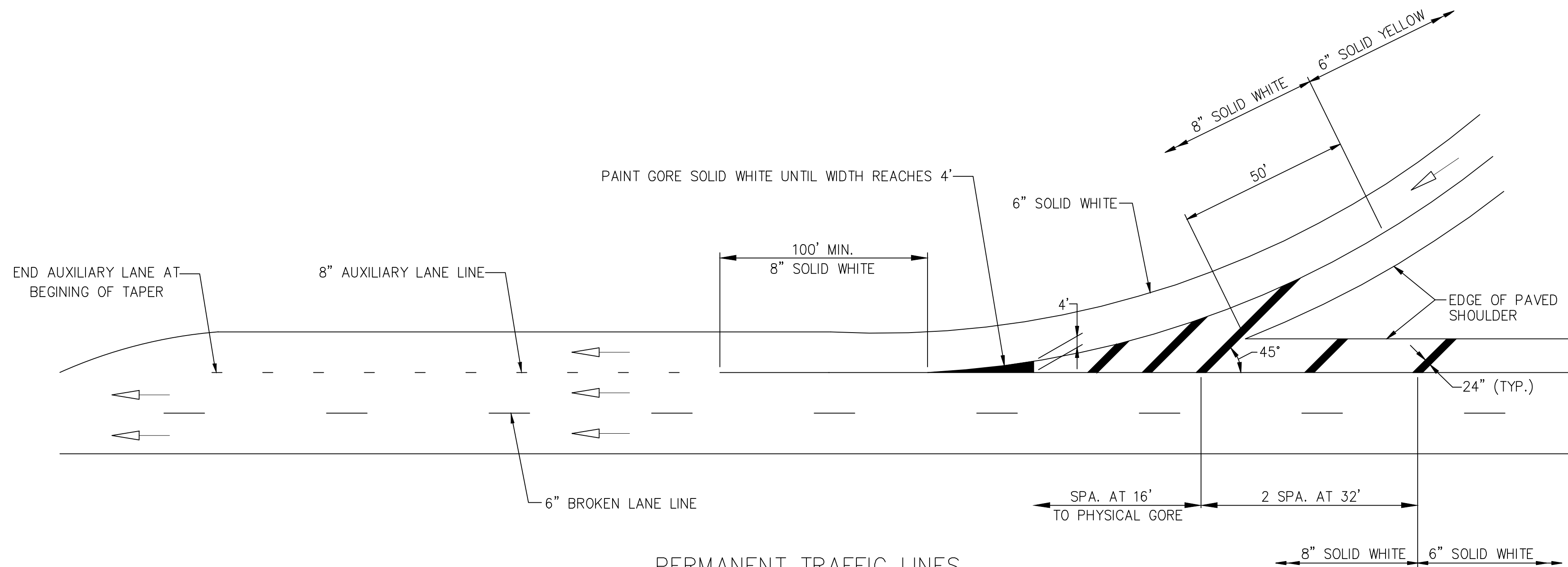
PERMANENT BROKEN LANE LINE

6" WIDTH

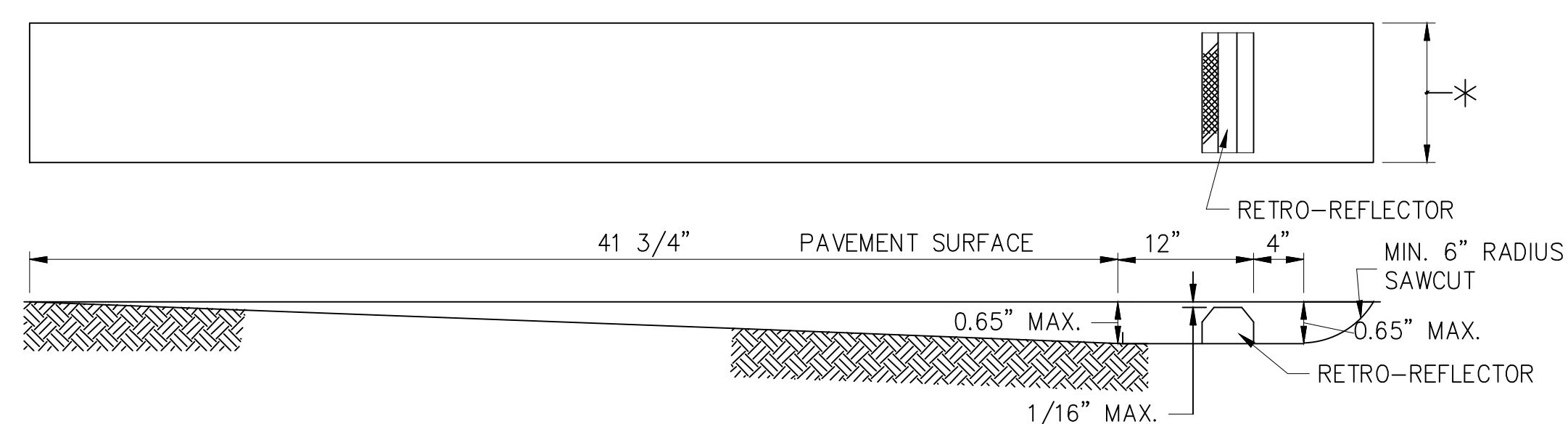
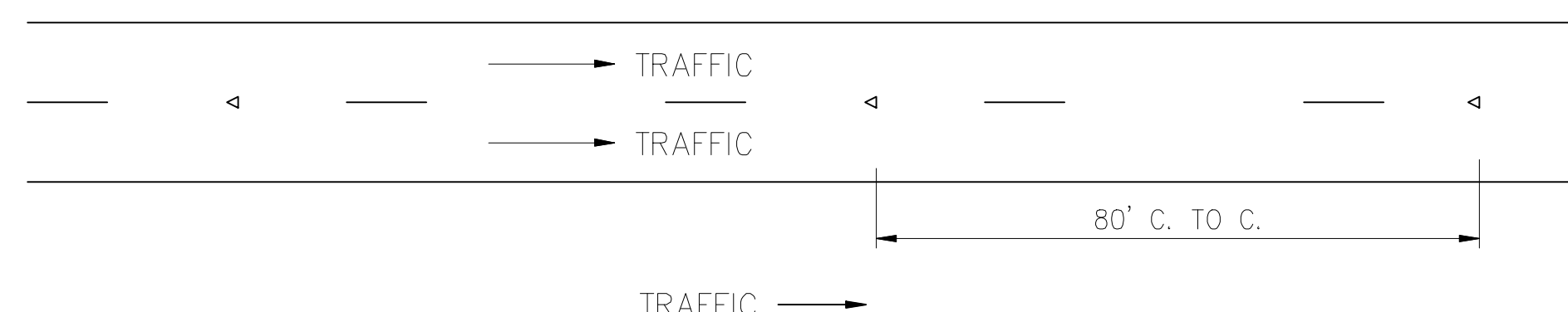


PERMANENT AUXILIARY LANE LINE

8" WIDTH



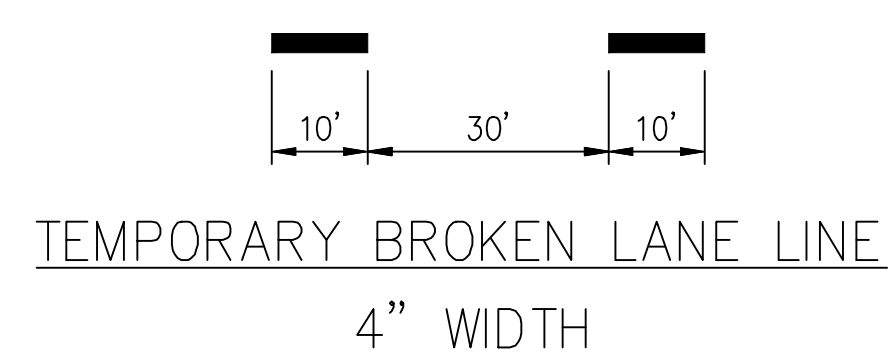
PERMANENT TRAFFIC LINES WITH ACCELERATION RAMP



NOTES:

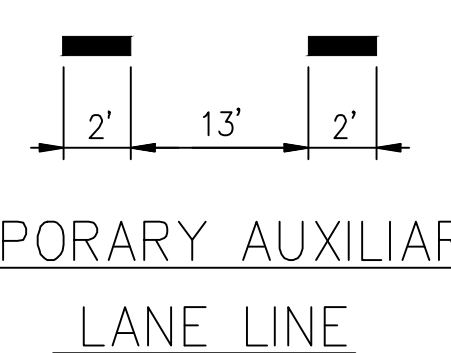
1. RETRO-REFLECTOR (COMMISSION APPROVED) IS 2 1/4" WIDE.
2. KEEP RETRO-REFLECTOR AT THE FAR RIGHT OF THE 12" AREA.
- \* 3. WIDTH OF CUT IS EQUAL TO WIDTH OF RETRO-REFLECTOR PLUS 1/8".
4. ATTACH RETRO-REFLECTOR TO ROAD SURFACE WITH MANUFACTURER APPROVED EPOXY ADHESIVE.

INSTALLATION OF RECESSED REFLECTIVE PAVEMENT MARKERS



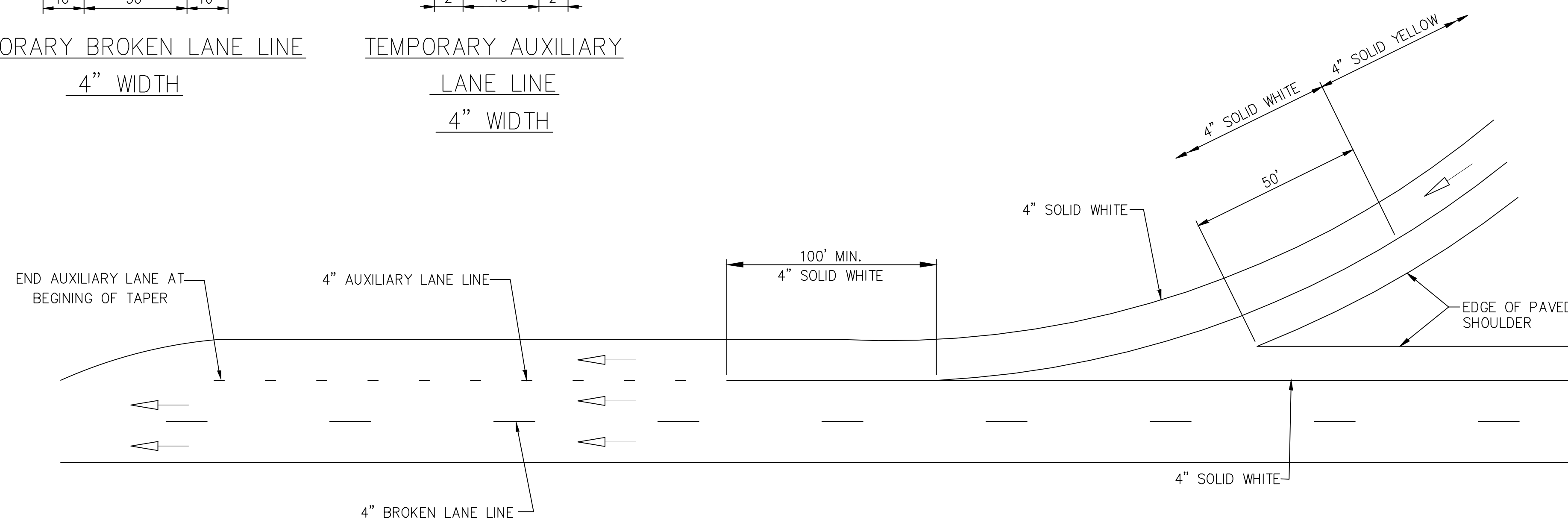
TEMPORARY BROKEN LANE LINE

4" WIDTH



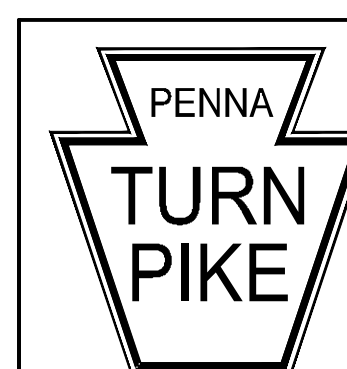
TEMPORARY AUXILIARY LANE LINE

4" WIDTH



TEMPORARY TRAFFIC LINES WITH ACCELERATION RAMP

GORE STRIPING DETAILS



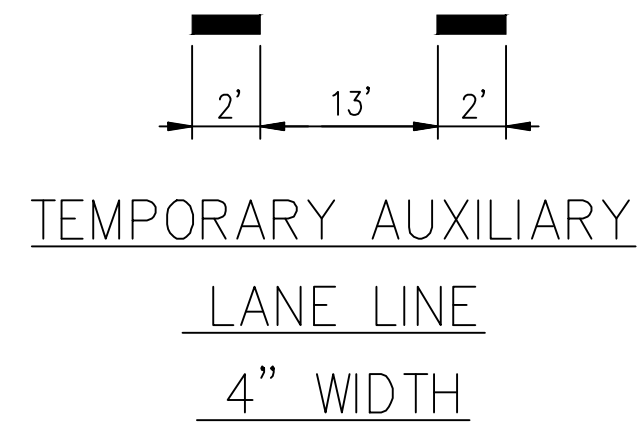
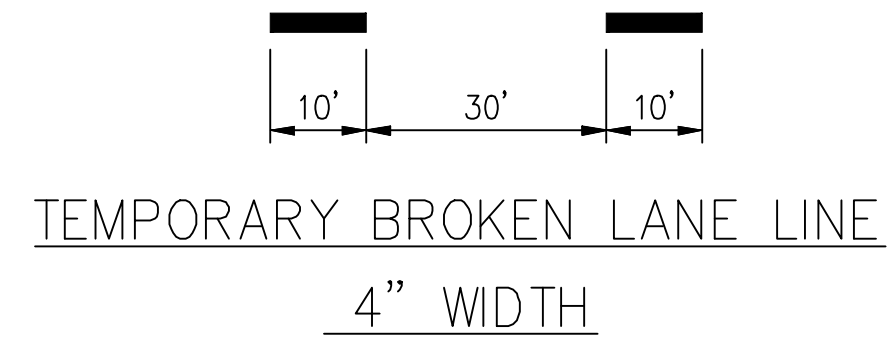
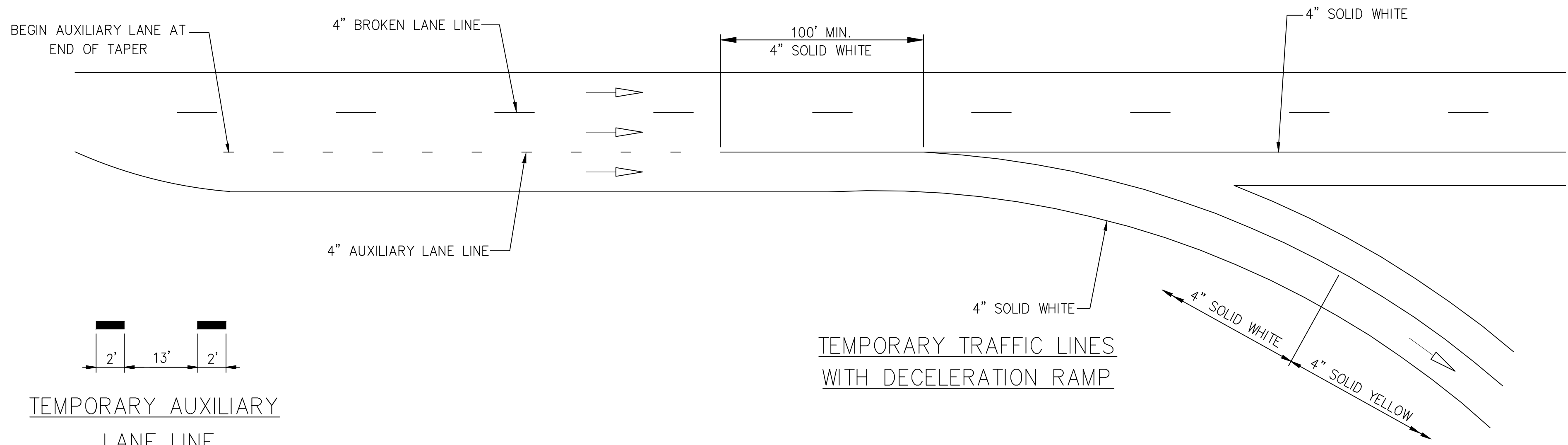
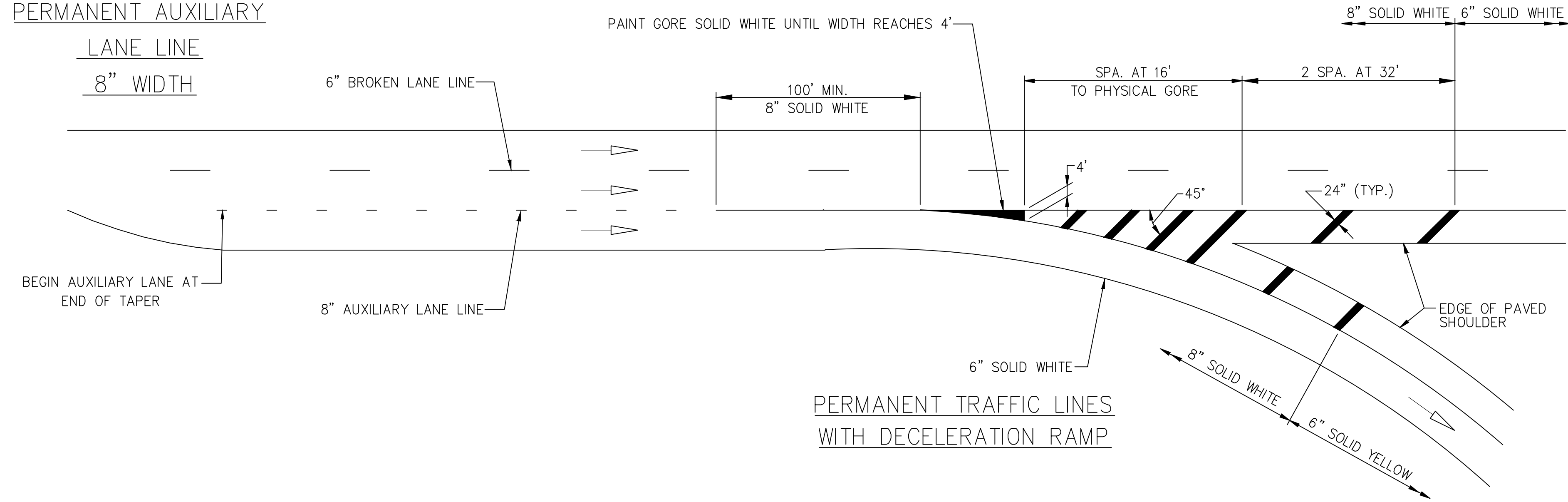
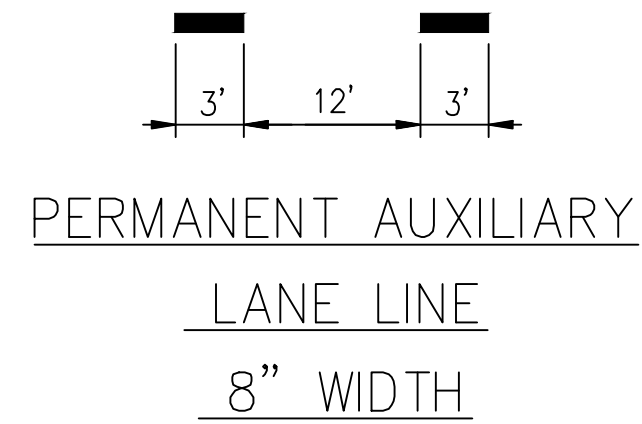
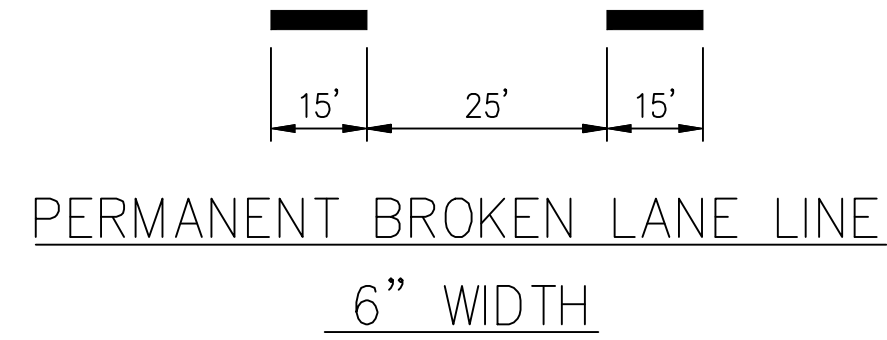
RECOMMENDED: DECEMBER 31, 2019  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE STRIPING DETAILS FOR ACCELERATION RAMP AND RECESSED REFLECTIVE PAVEMENT MARKER (RRPM) DETAIL

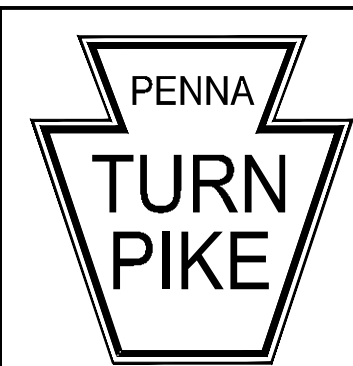
PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING

FILE NAME: PTS-980-1.dwg SHEET 1 OF 40  
 DRAWING TYPE: 5A

DATE: DECEMBER 2019 PTS-980



GORE STRIPING DETAILS



RECOMMENDED: DECEMBER 31, 2019  
*Gayle S. Gilman*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

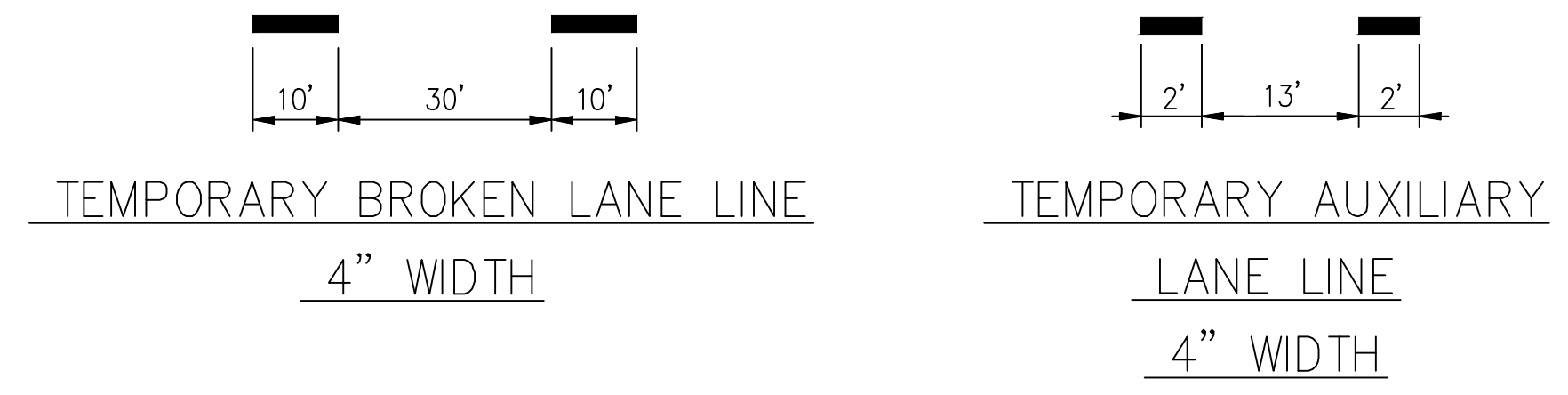
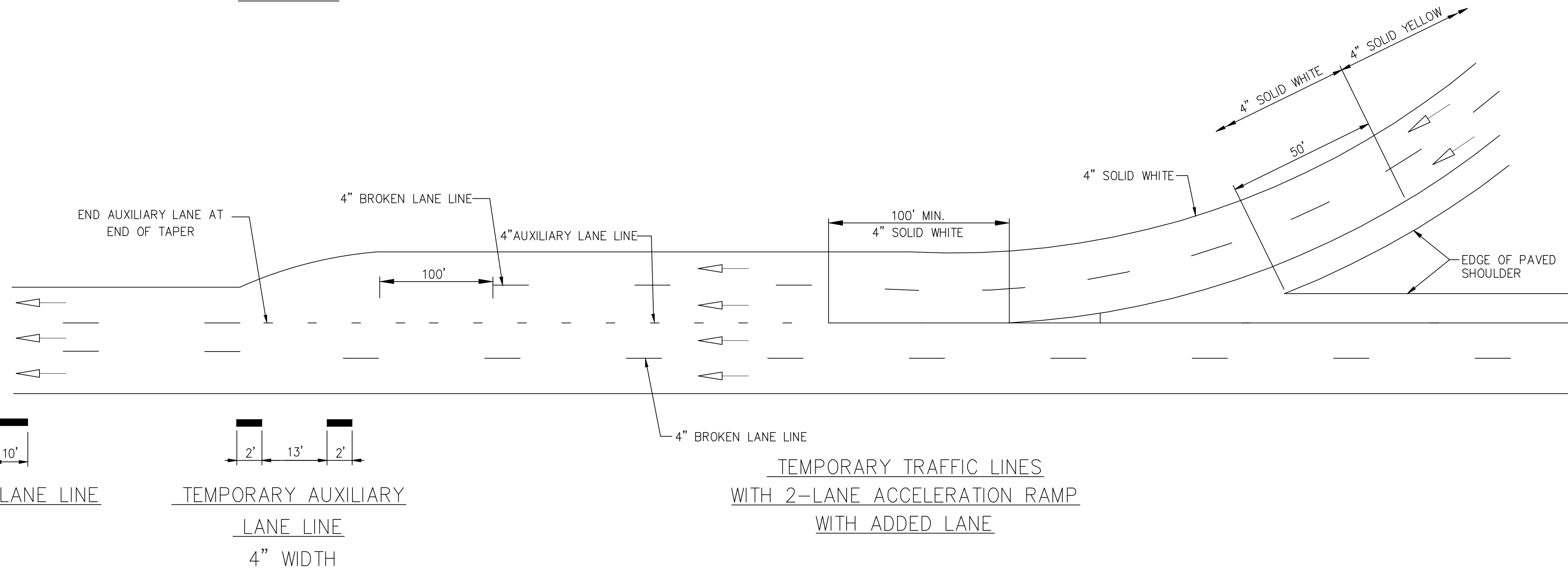
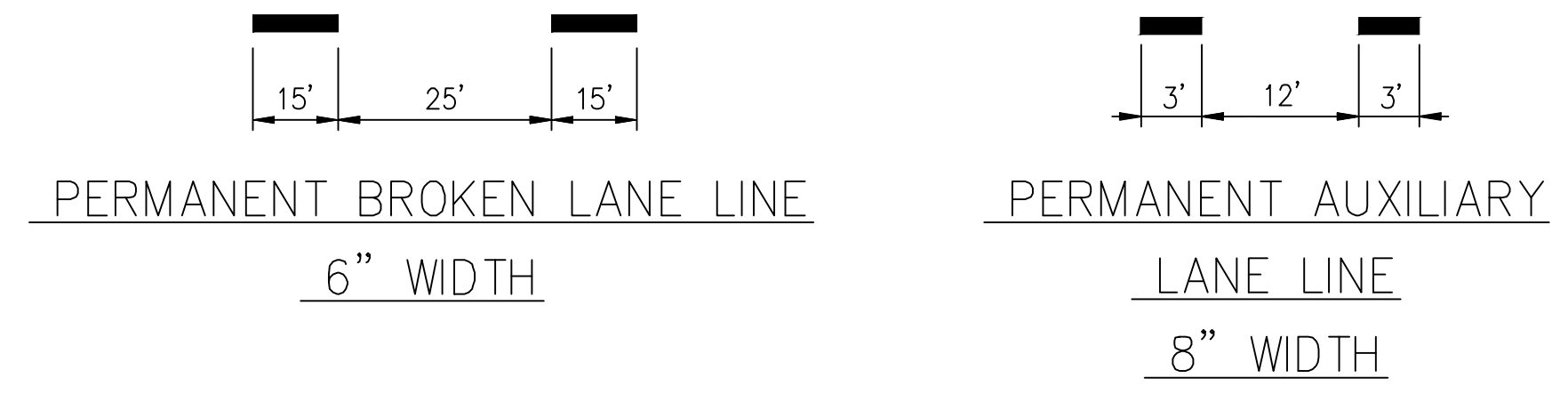
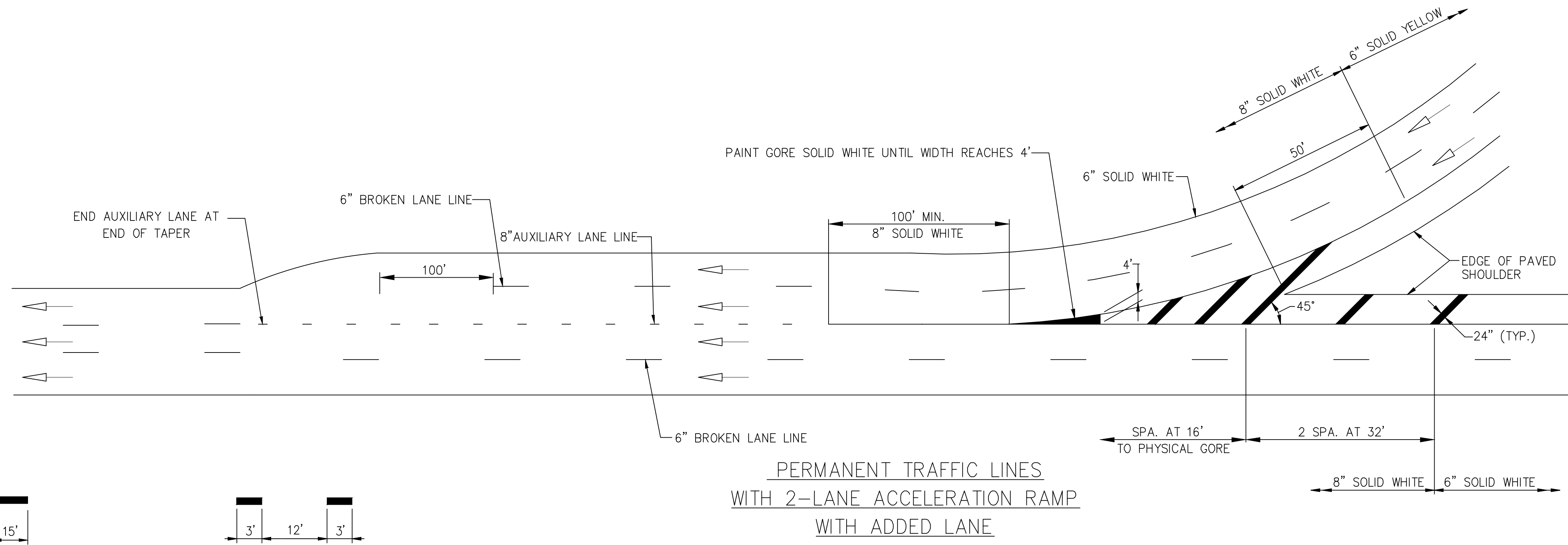
**CONSTRUCTION AND MAINTENANCE STRIPING DETAILS FOR DECELERATION RAMP**

**PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING**

FILE NAME: PTS-980-2.dwg  
 DRAWING TYPE: 5A

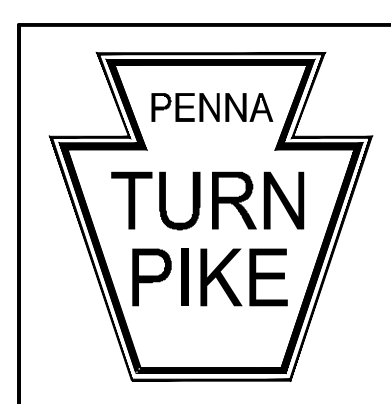
SHEET 2 OF 40

DATE: DECEMBER 2019  
 PTS-980



- NOTES:
1. THE REPRESENTATIVE WILL APPROVE THE EXACT LOCATIONS OF THE PAVEMENT MARKINGS PRIOR TO INSTALLATION.
  2. ALL GORE AND SHOULDER CROSSHATCHING ARE WHITE.

GORE STRIPING DETAILS



RECOMMENDED: DECEMBER 31, 2019

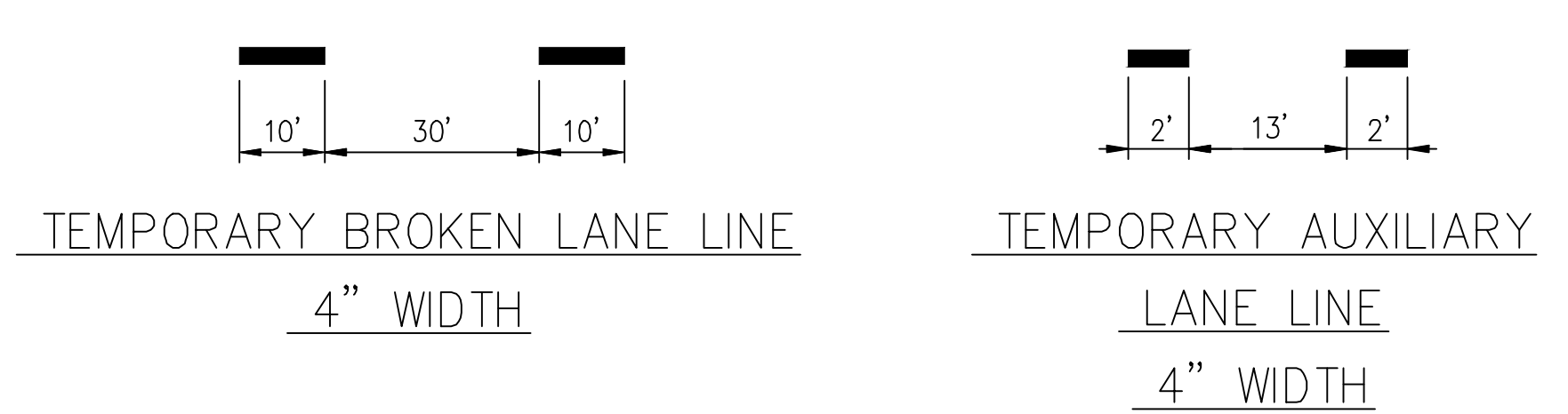
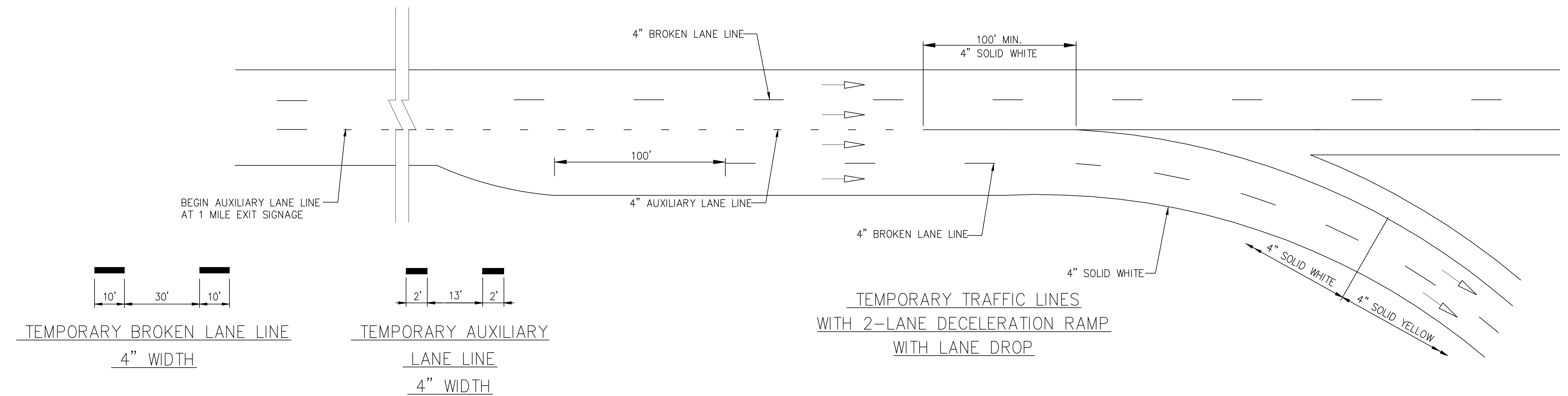
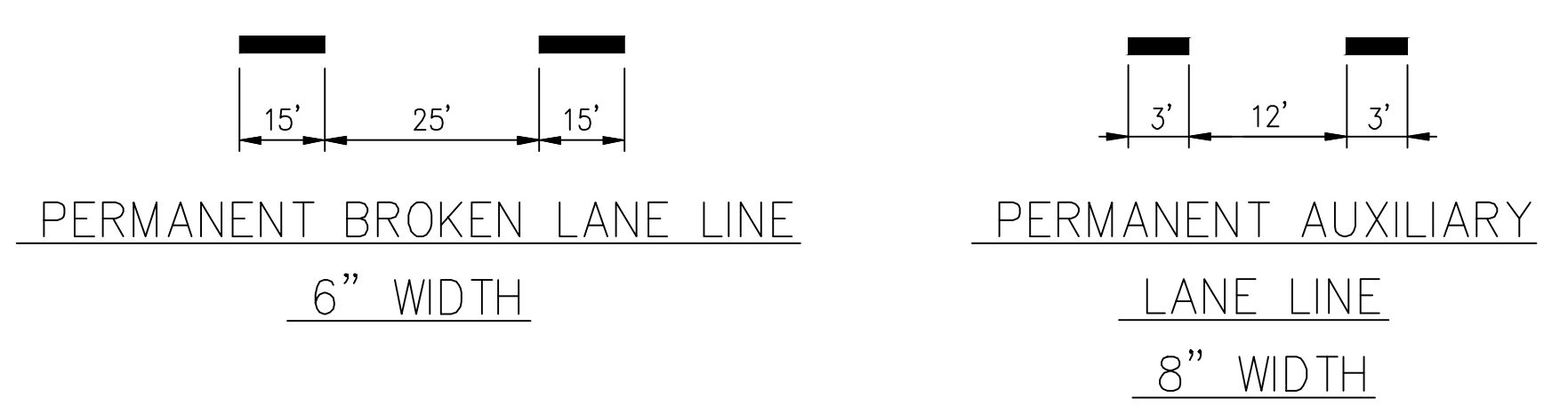
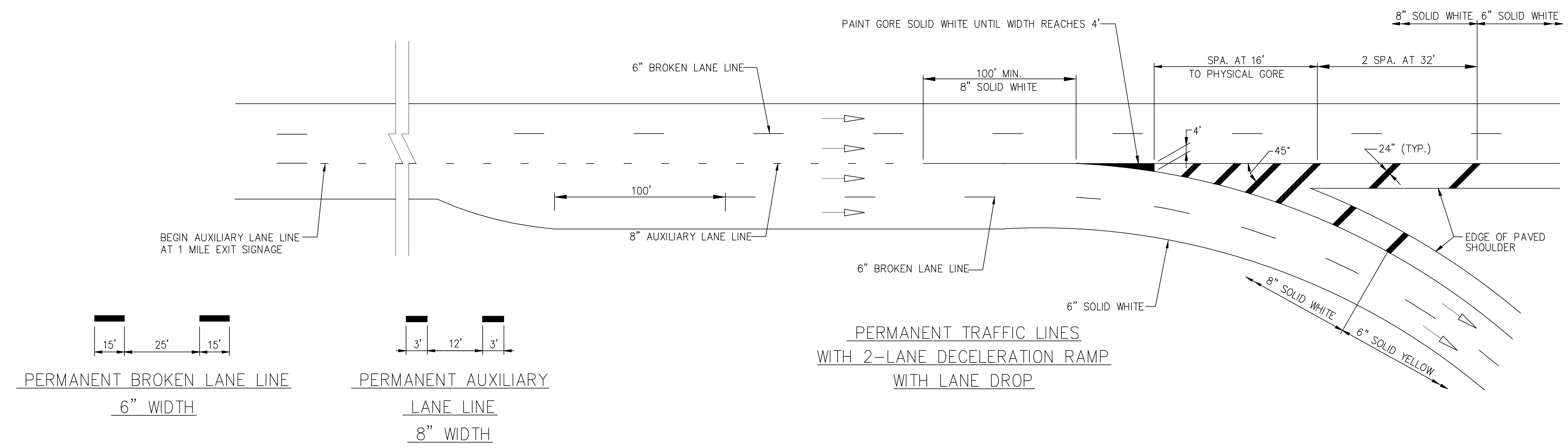
*Gayle Gilman*  
ASSISTANT CHIEF ENGINEER - DESIGN

APPROVED: DECEMBER 30, 2019

*M. B. [Signature]*  
CHIEF ENGINEER

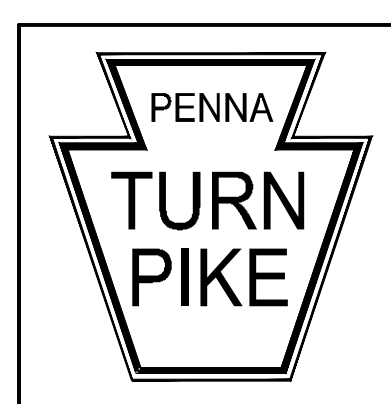
CONSTRUCTION AND MAINTENANCE  
STRIPING DETAILS FOR  
TWO LANE ACCELERATION RAMP  
WITH ADDED LANE

PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
FILE NAME: PTS-980-3.dwg	SHEET 3 OF 40
DRAWING TYPE: 5A	
DATE: DECEMBER 2019	PTS-980



- NOTES:
1. THE REPRESENTATIVE WILL APPROVE THE EXACT LOCATIONS OF THE PAVEMENT MARKINGS PRIOR TO INSTALLATION.
  2. ALL GORE AND SHOULDER CROSSHATCHING ARE WHITE.

GORE STRIPING DETAILS



RECOMMENDED: DECEMBER 31, 2019

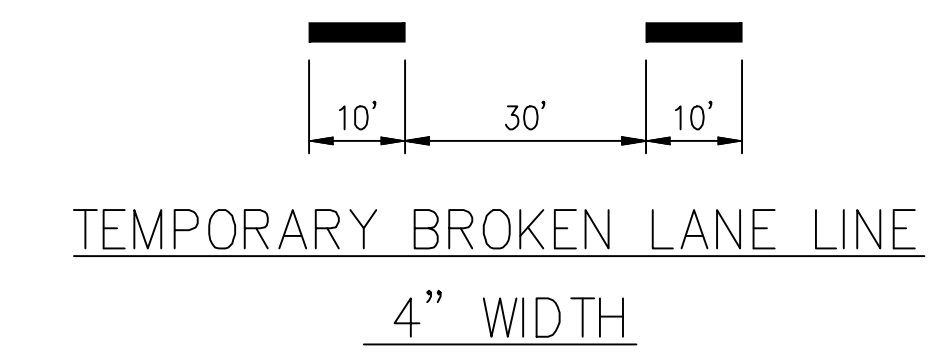
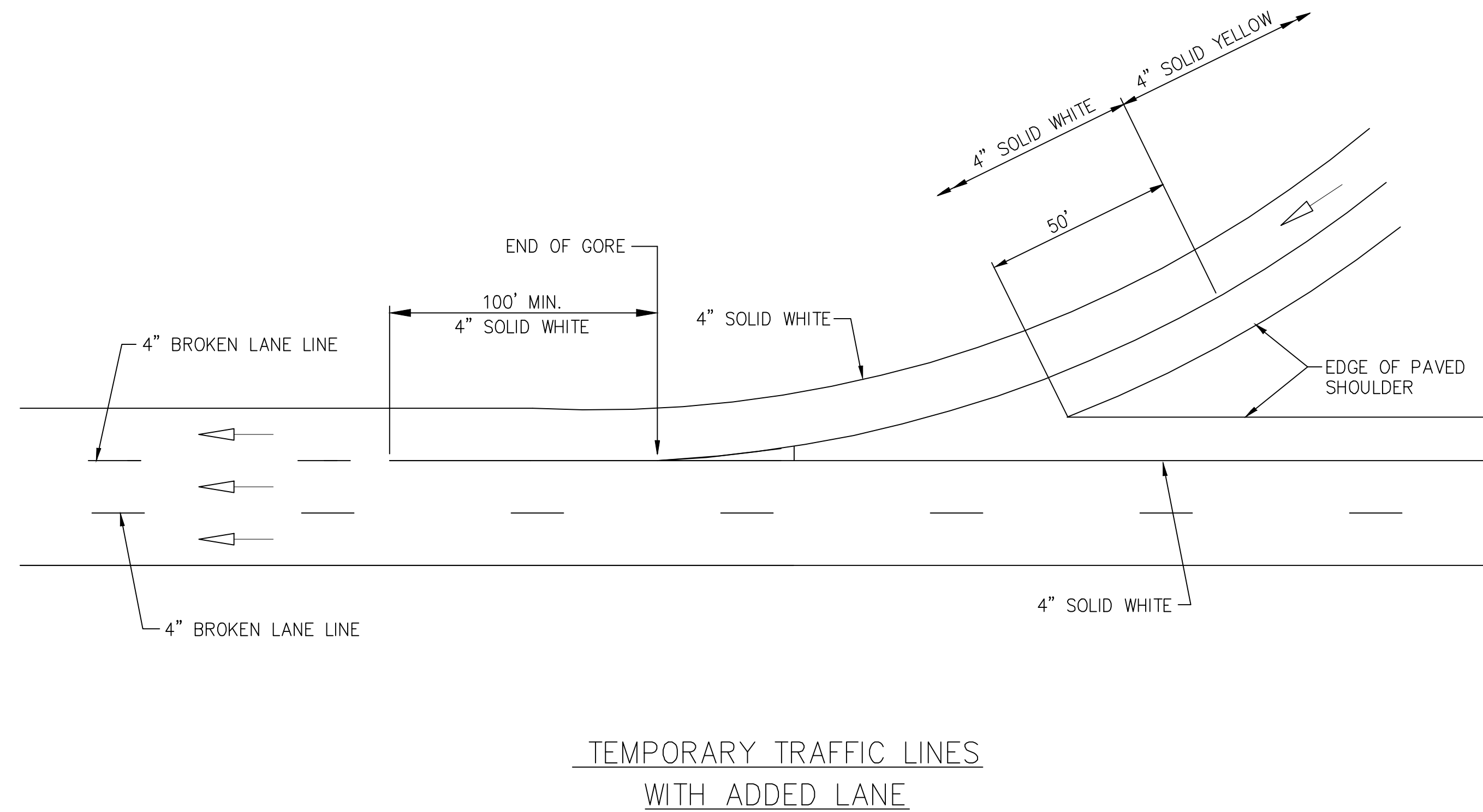
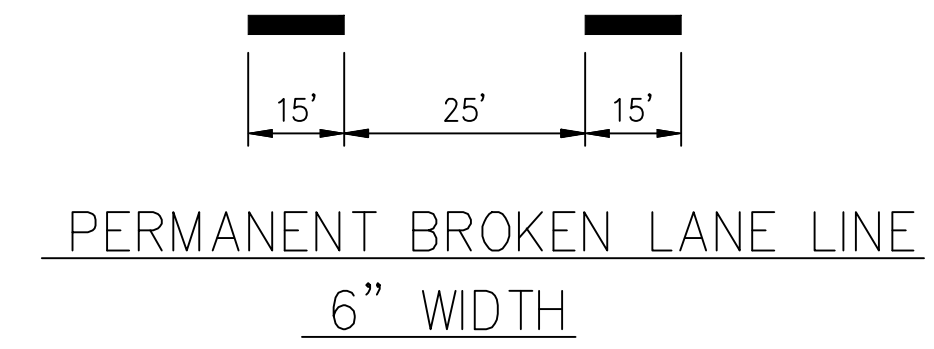
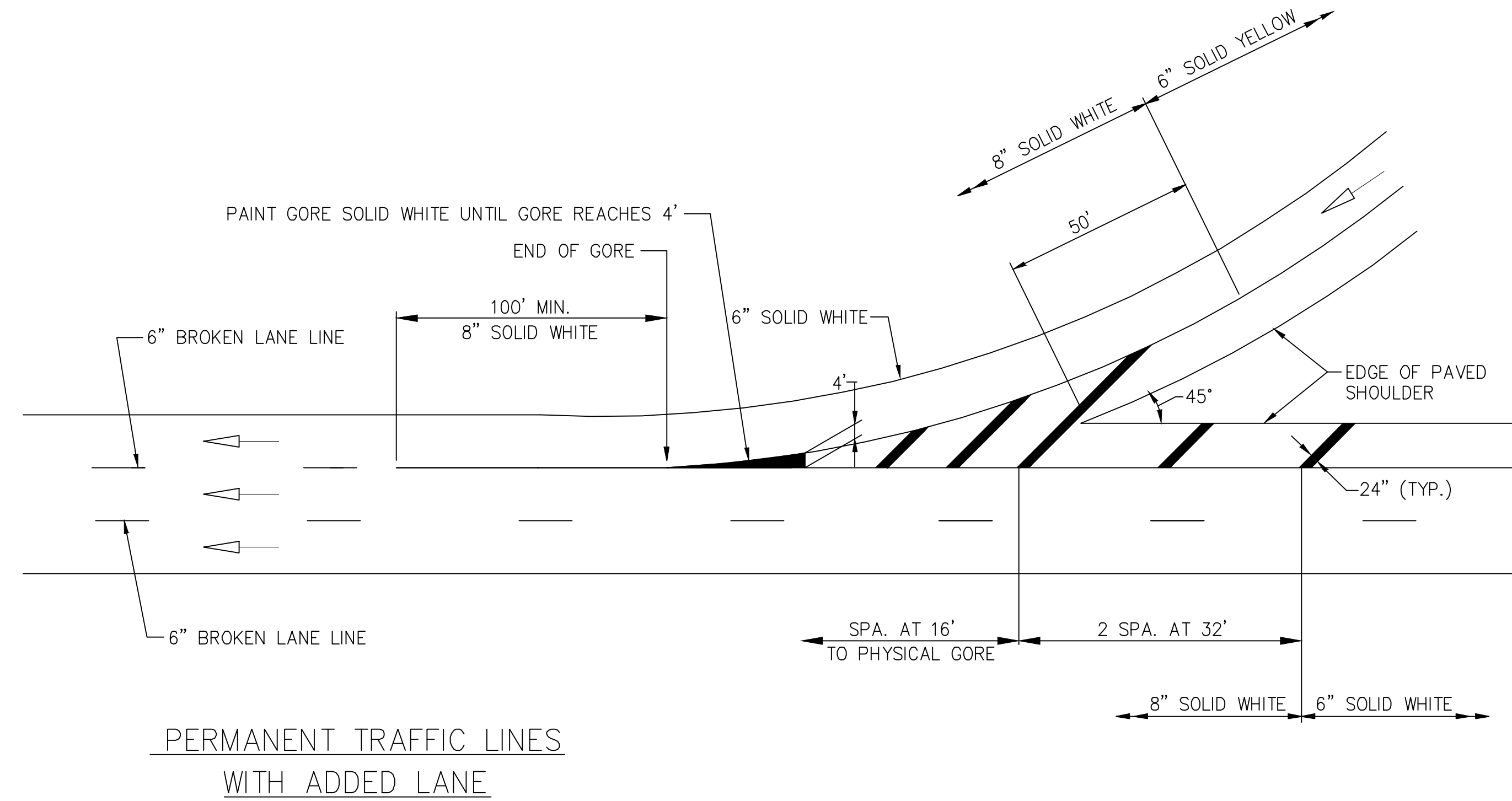
ASSTANT CHIEF ENGINEER - DESIGN

APPROVED: DECEMBER 30, 2019

CHIEF ENGINEER

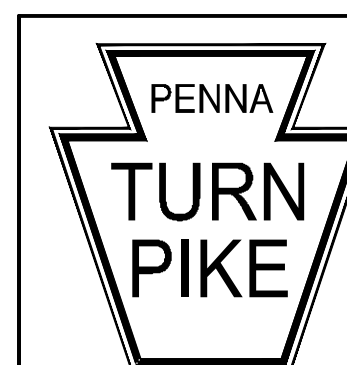
CONSTRUCTION AND MAINTENANCE STRIPING DETAILS FOR TWO LANE DECELERATION RAMP WITH LANE DROP

PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
FILE NAME: PTS-980-4.dwg	SHEET 4 OF 40
DRAWING TYPE: 5A	
DATE: DECEMBER 2019	PTS-980



NOTES:

1. THE REPRESENTATIVE WILL APPROVE THE EXACT LOCATIONS OF THE PAVEMENT MARKINGS PRIOR TO INSTALLATION.
2. ALL GORE AND SHOULDER CROSSHATCHING ARE WHITE.



RECOMMENDED: DECEMBER 31, 2019

*Gayle S. Gilman*

ASSISTANT CHIEF ENGINEER - DESIGN

APPROVED: DECEMBER 30, 2019

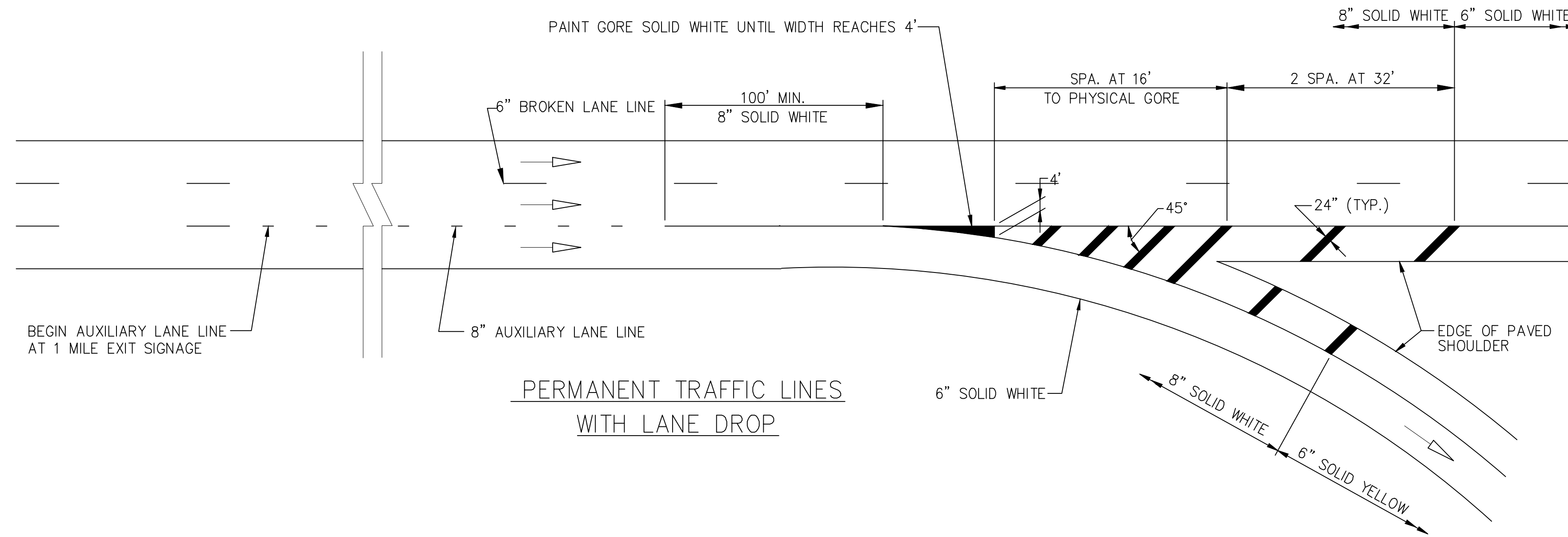
*[Signature]*

CHIEF ENGINEER

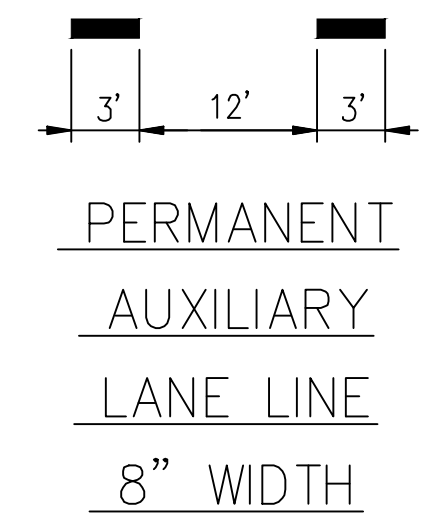
**CONSTRUCTION AND MAINTENANCE STRIPING DETAILS FOR ADDED LANES**

**PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING**

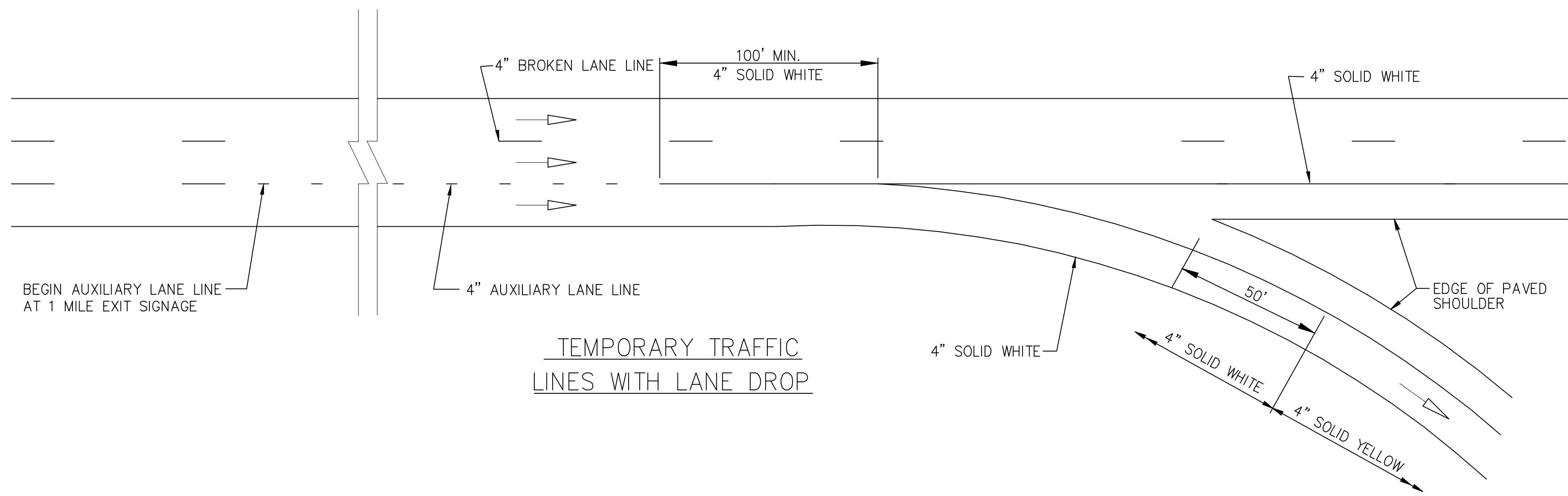
FILE NAME: PTS-980-5.dwg	SHEET 5 OF 40
DRAWING TYPE: 5A	
DATE: DECEMBER 2019	PTS-980



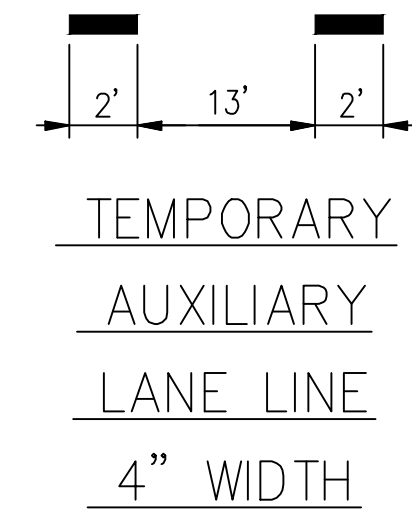
PERMANENT TRAFFIC LINES WITH LANE DROP



PERMANENT AUXILIARY LANE LINE 8" WIDTH



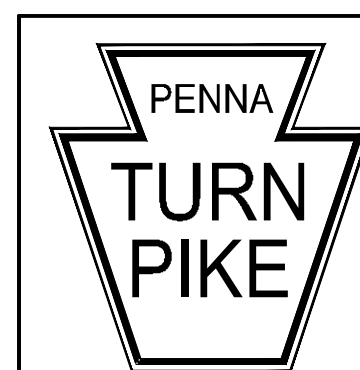
TEMPORARY TRAFFIC LINES WITH LANE DROP



TEMPORARY AUXILIARY LANE LINE 4" WIDTH

NOTES:

1. THE REPRESENTATIVE WILL APPROVE THE EXACT LOCATIONS OF THE PAVEMENT MARKINGS PRIOR TO INSTALLATION.
2. ALL GORE AND SHOULDER CROSSHATCHING ARE WHITE.

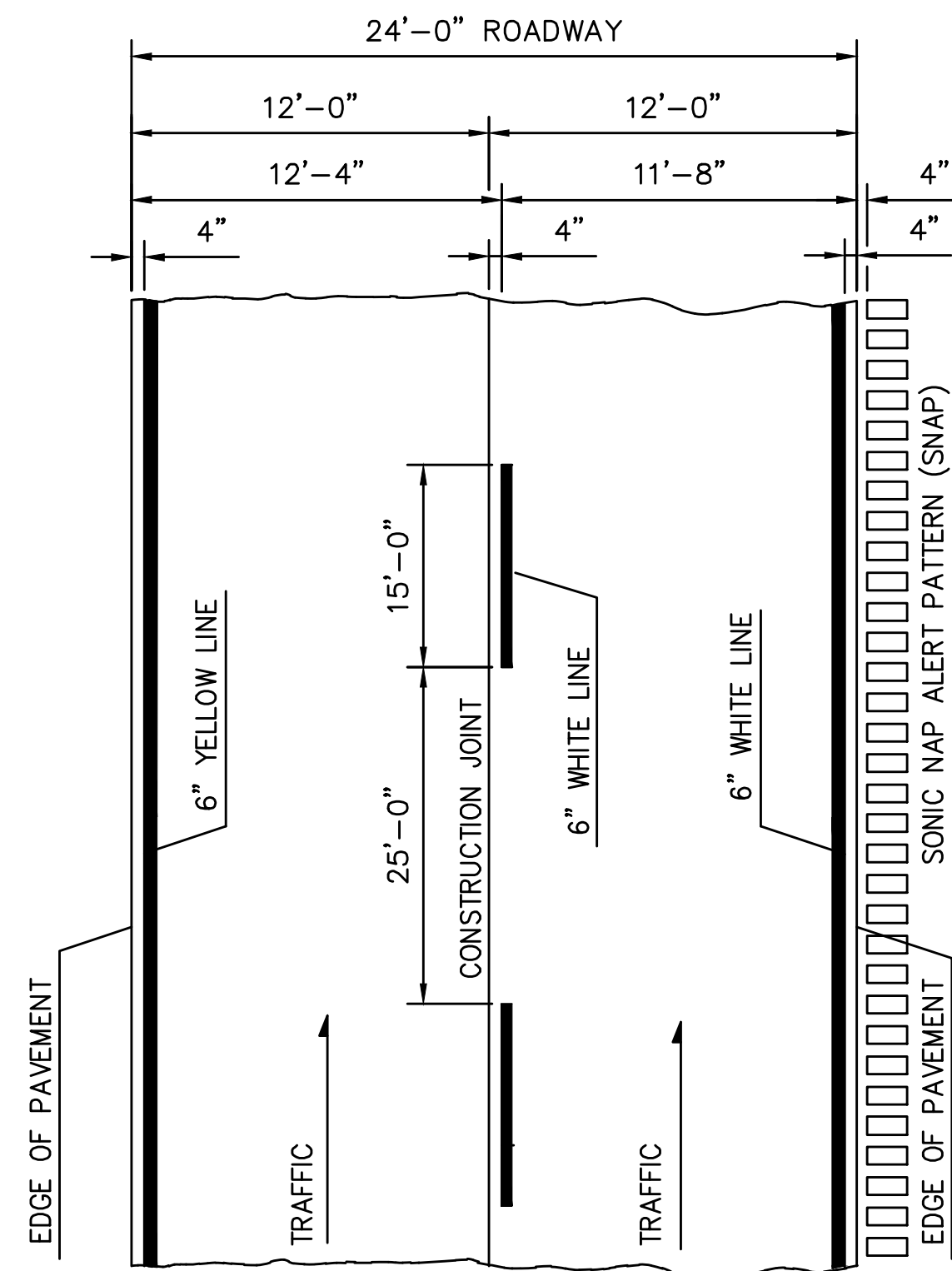


RECOMMENDED: DECEMBER 31, 2019  
*Gary L. G...*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

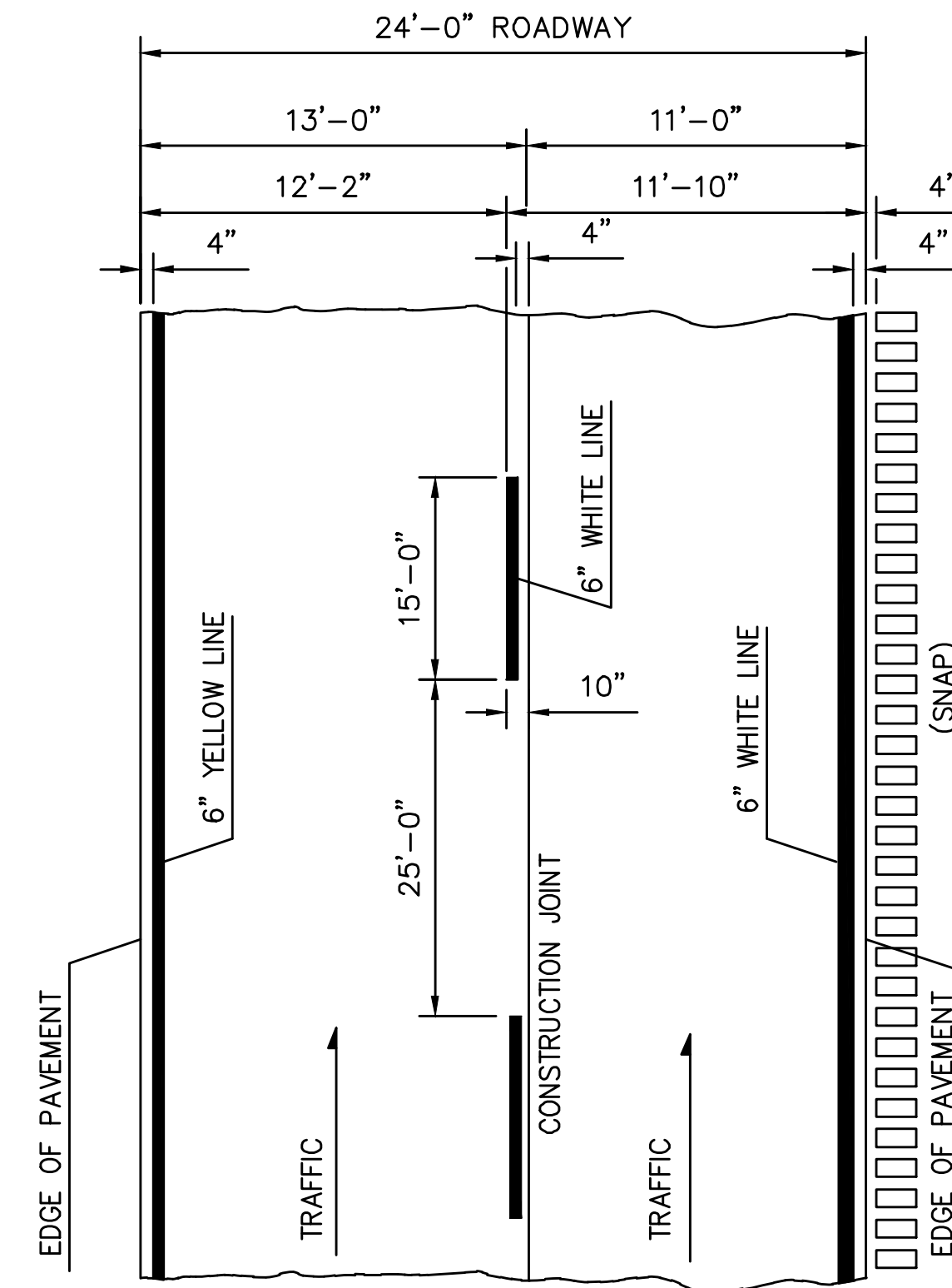
CONSTRUCTION AND MAINTENANCE STRIPING DETAILS FOR ADDED LANES

PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING

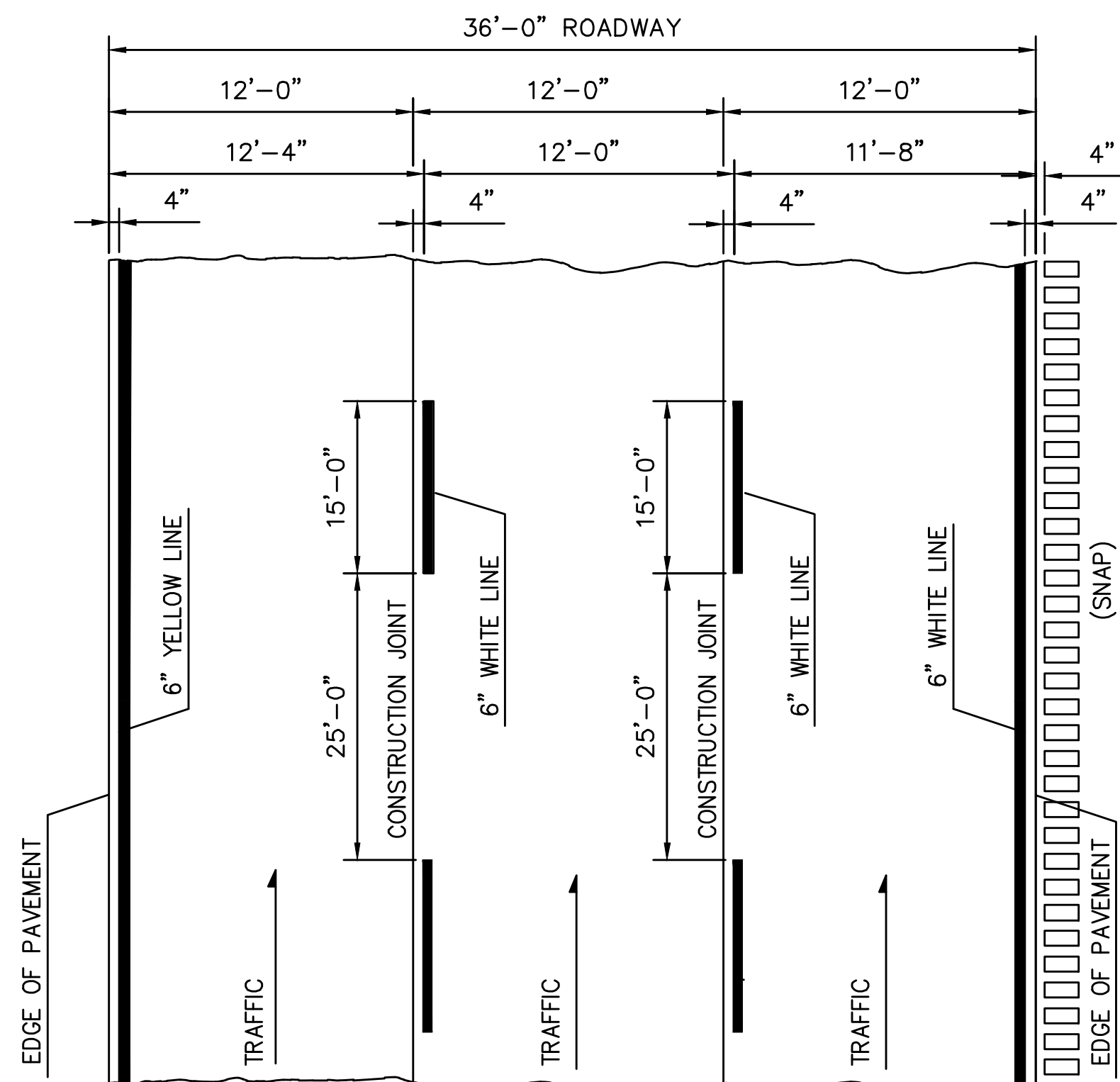
FILE NAME: PTS-980-6.dwg	SHEET 6 OF 40
DRAWING TYPE: 5A	
DATE: DECEMBER 2019	PTS-980



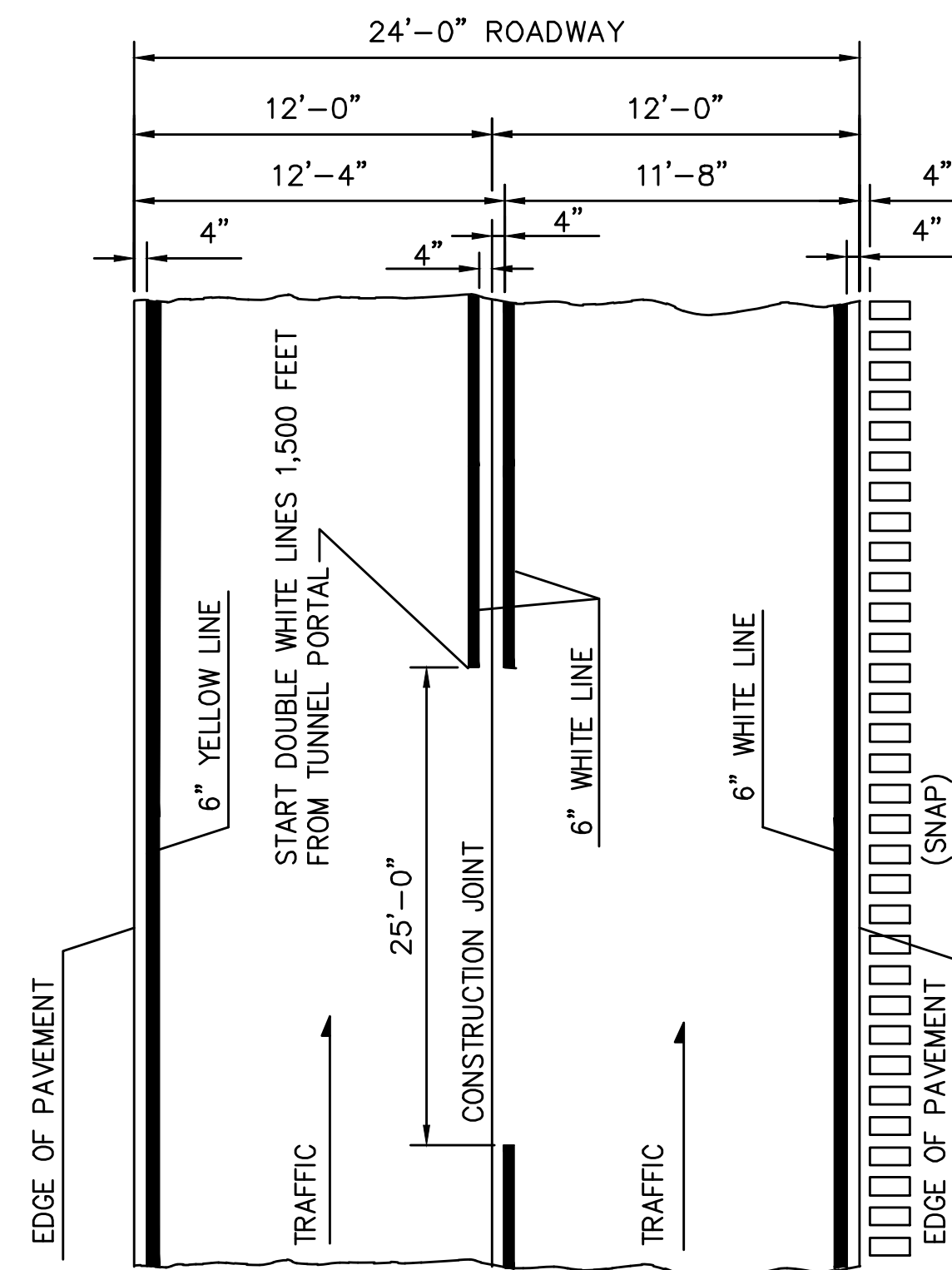
**2 LANES**



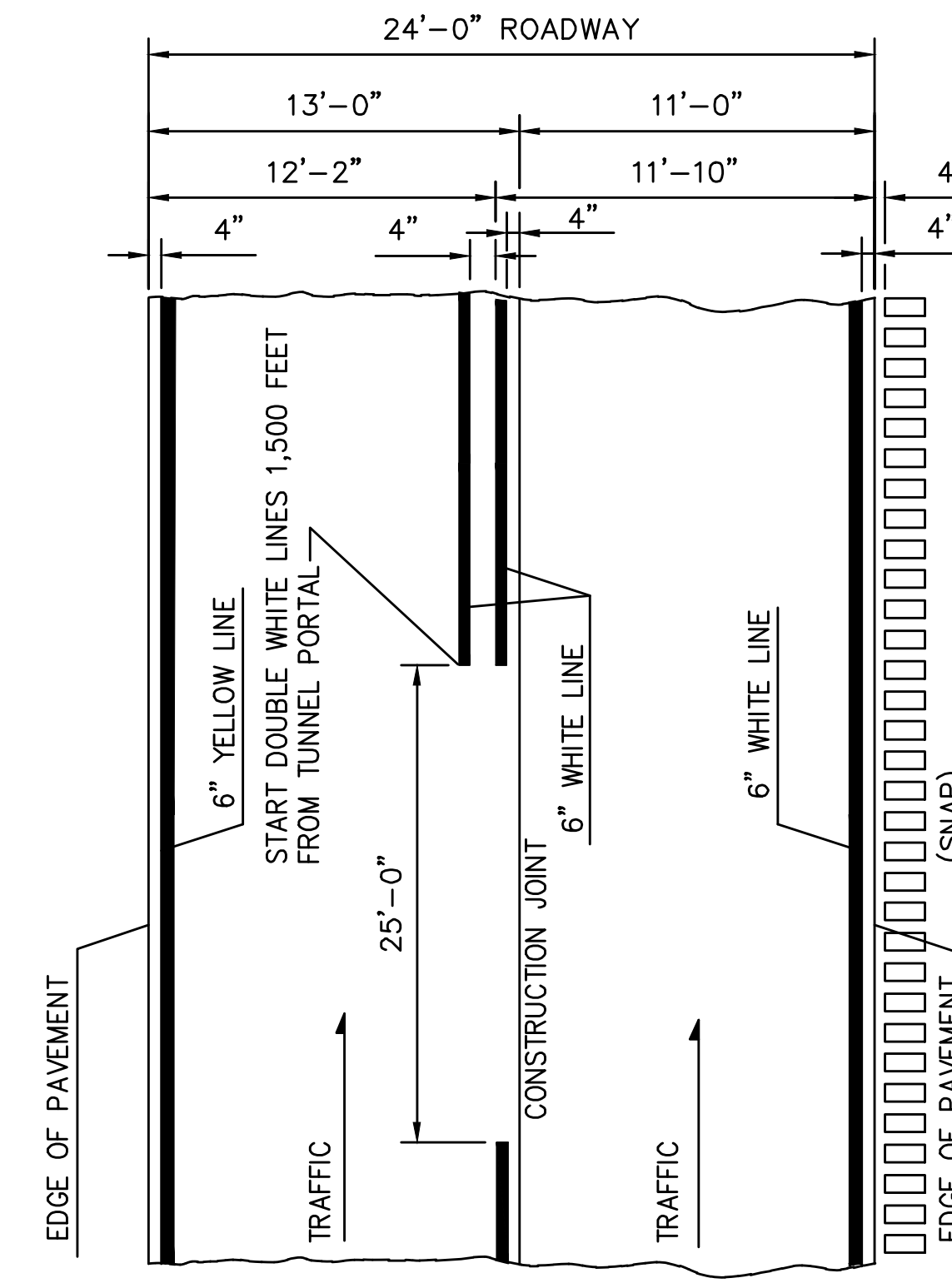
**2 LANES - NORTHEAST EXTENSION**



**3 LANES**



**2 LANES - TUNNEL ENTRANCE**



**2 LANES - LEHIGH TUNNEL ENTRANCE**

**NOTES:**

- REFER TO PTS-192 FOR PLACEMENT AND DETAILS OF SONIC NAP ALERT PATTERN (SNAP).

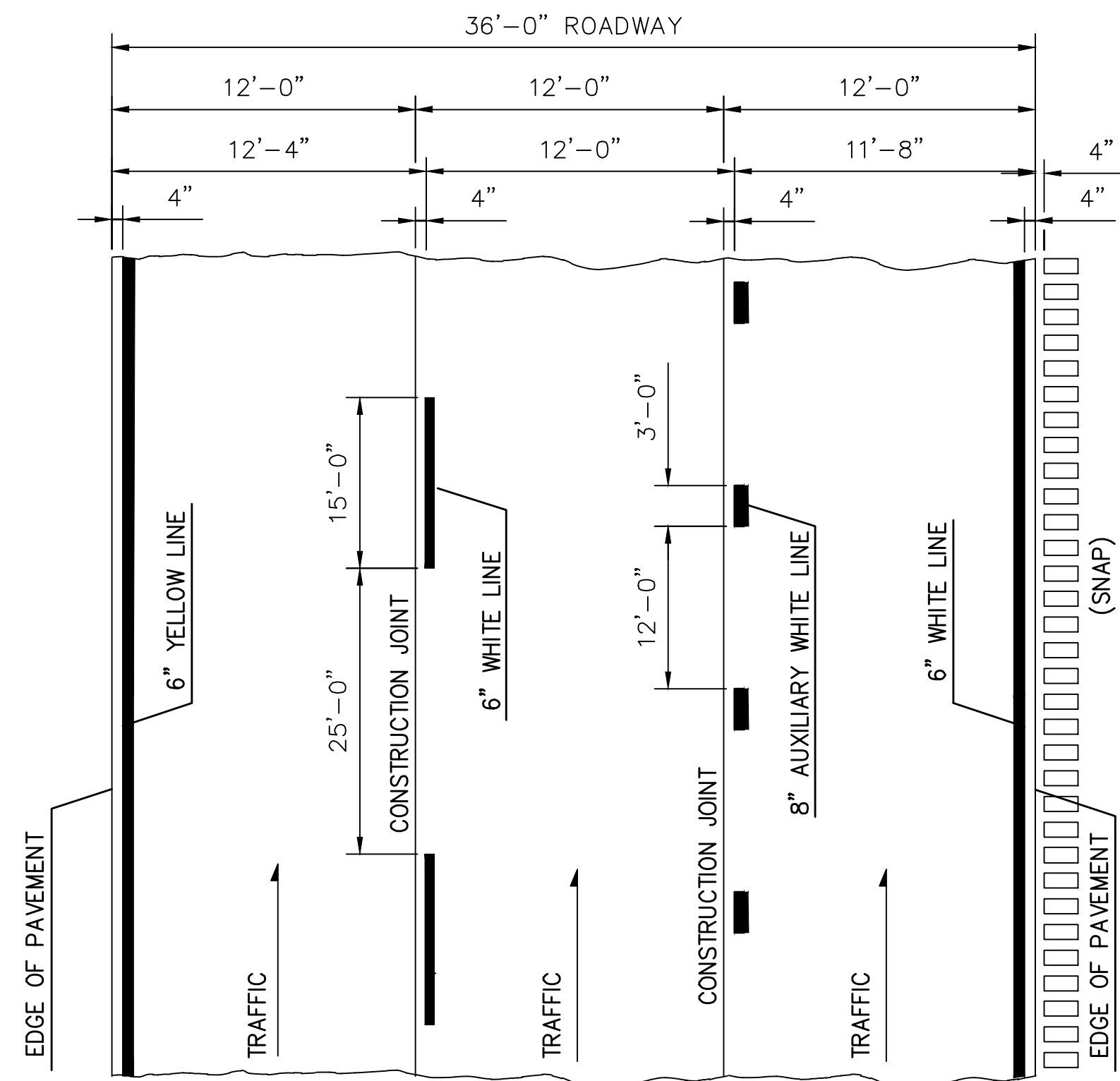


RECOMMENDED: DECEMBER 31, 2019  
*Gayle J. Smith*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

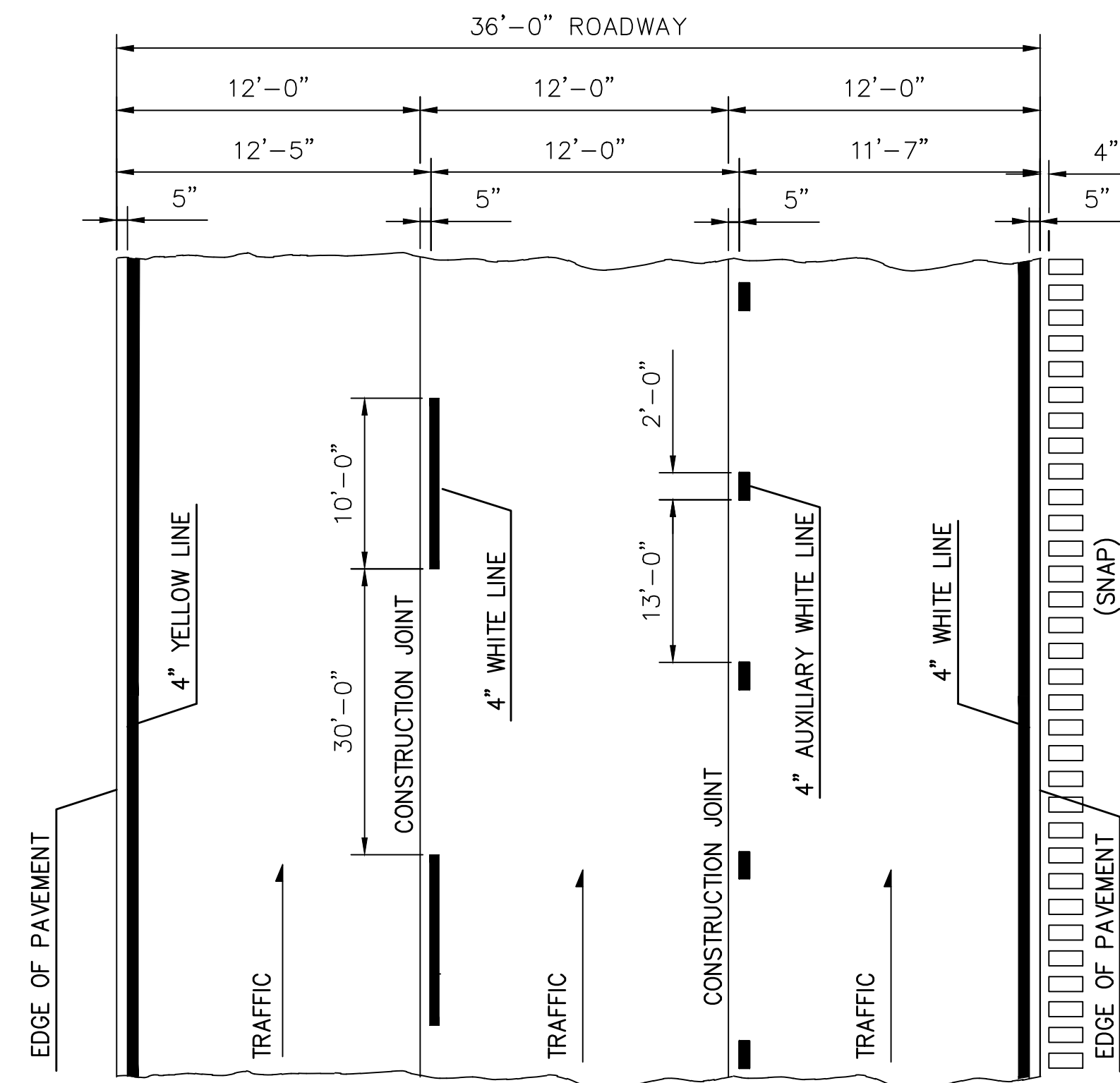
**CONSTRUCTION AND MAINTENANCE  
 PERMANENT TRAFFIC LINE MARKING  
 DETAILS**

**PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING**

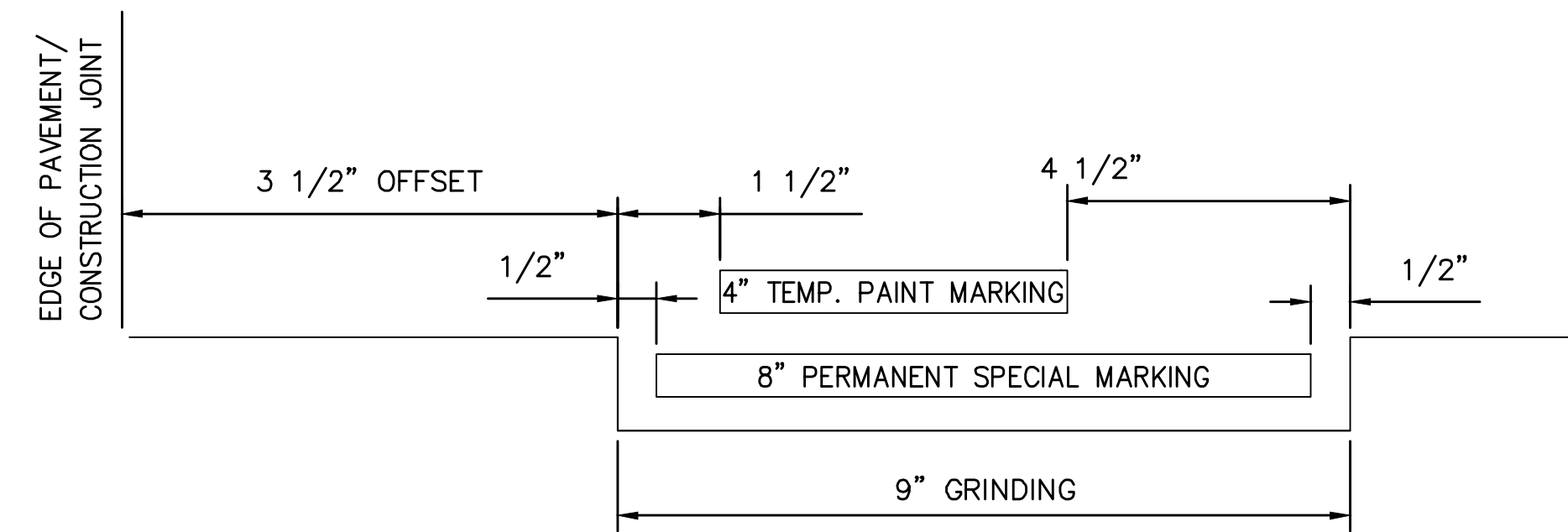
FILE NAME: PTS-980-7.dwg	SHEET 7 OF 40
DRAWING TYPE: DETAILS	
DATE: DECEMBER 2019	PTS-980



**PERMANENT LANE DROP**

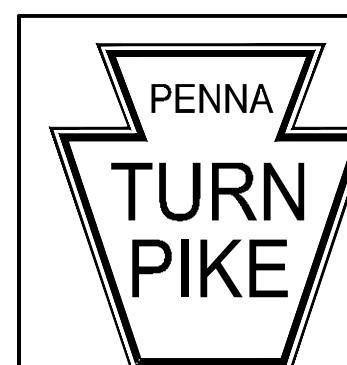


**TEMPORARY LANE DROP**



**NOTES:**

1. LOCATION OF TEMPORARY PAVEMENT MARKINGS AND WORK ZONE LANE WIDTHS ARE PROJECT DEPENDENT. REFER TO THE MAINTENANCE AND PROTECTION OF TRAFFIC SPECIAL PROVISION AND THE PROJECT PLANS.
2. REFER TO PTS-192 FOR PLACEMENT AND DETAILS OF SONIC NAP ALERT PATTERN (SNAP).



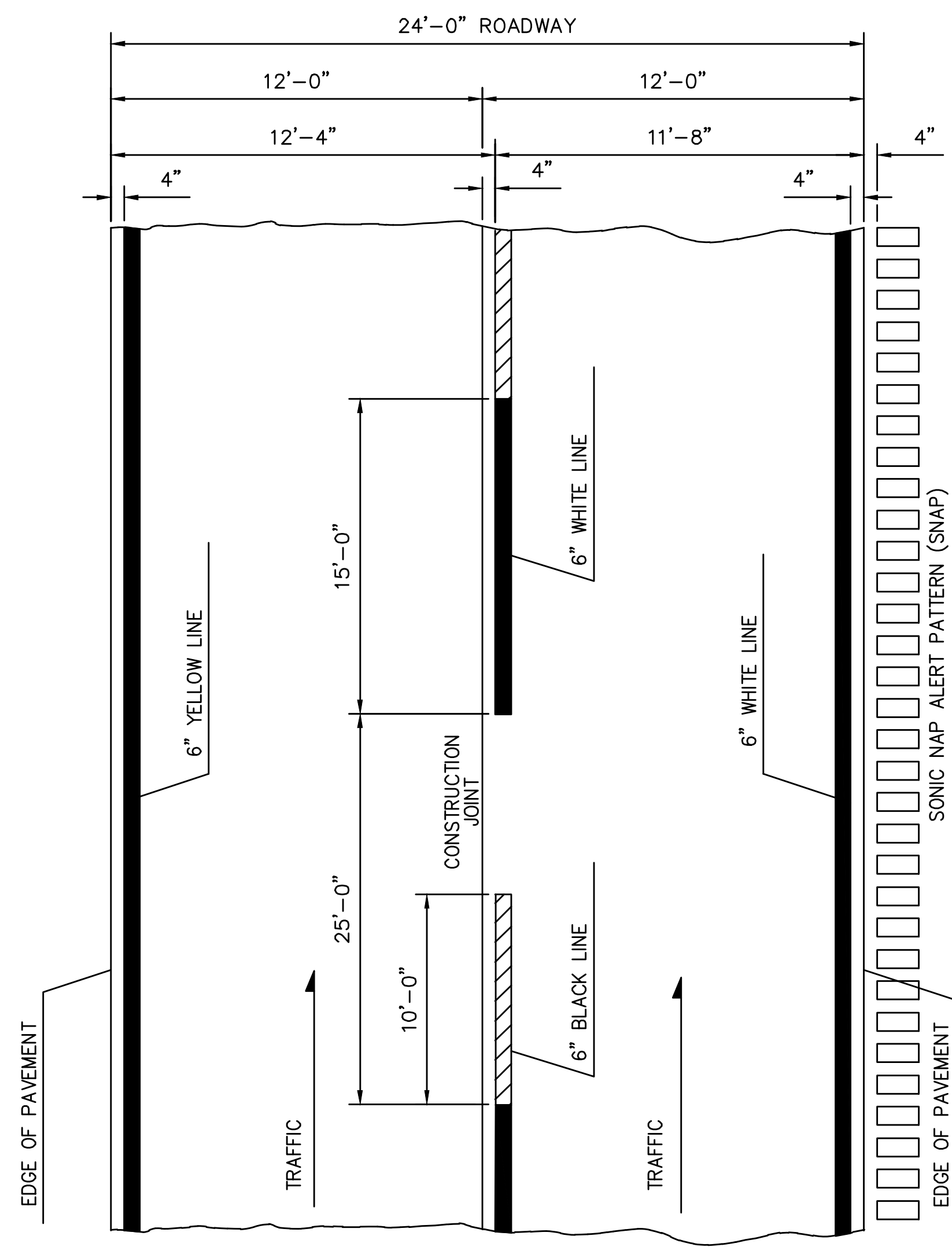
RECOMMENDED: DECEMBER 31, 2019  
*Gayle Gilman*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

**CONSTRUCTION AND MAINTENANCE  
 LANE DROP TRAFFIC LINE PAINTING**

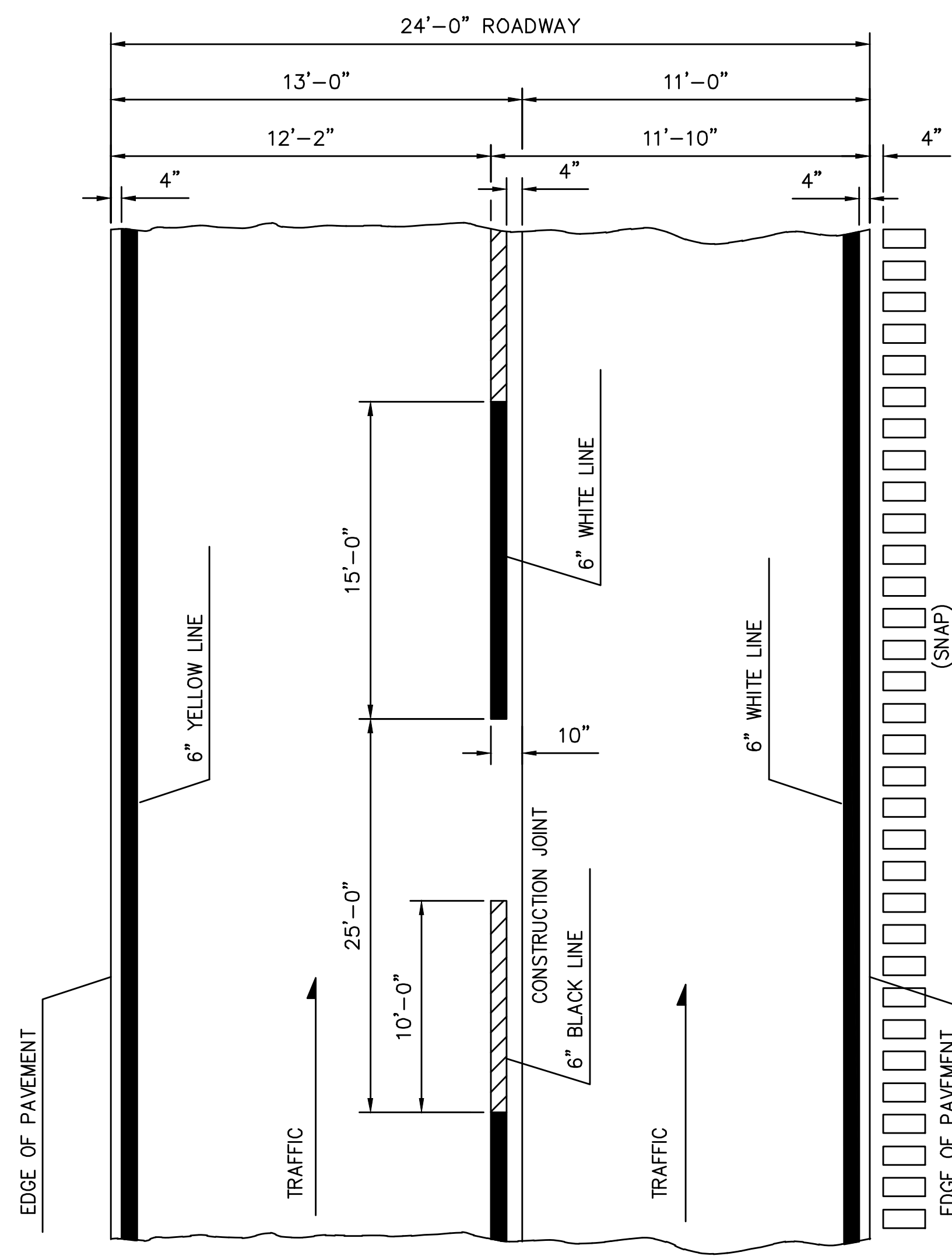
**PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING**

FILE NAME: PTS-980-8.dwg	SHEET 8 OF 40
DRAWING TYPE: 5A	
DATE: DECEMBER 2019	PTS-980

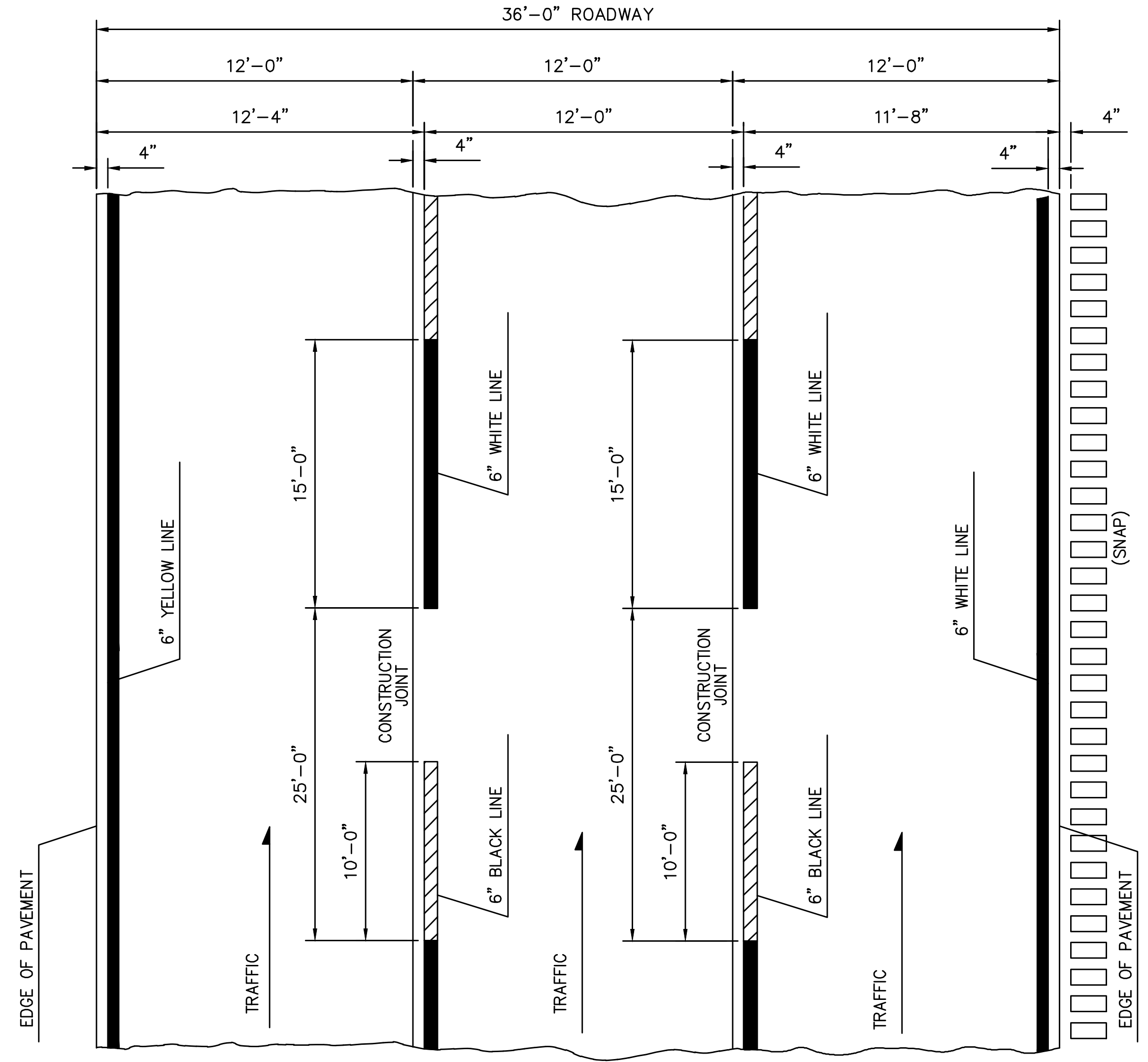




2 LANES



2 LANES - NORTHEAST EXTENSION

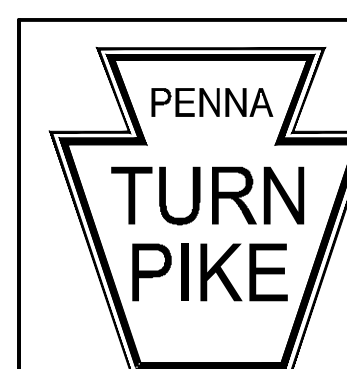


3 LANES

PERMANENT TRAFFIC LINE MARKINGS

NOTES:

- REFER TO PTS-192 FOR PLACEMENT AND DETAILS OF SONIC NAP ALERT PATTERN (SNAP).

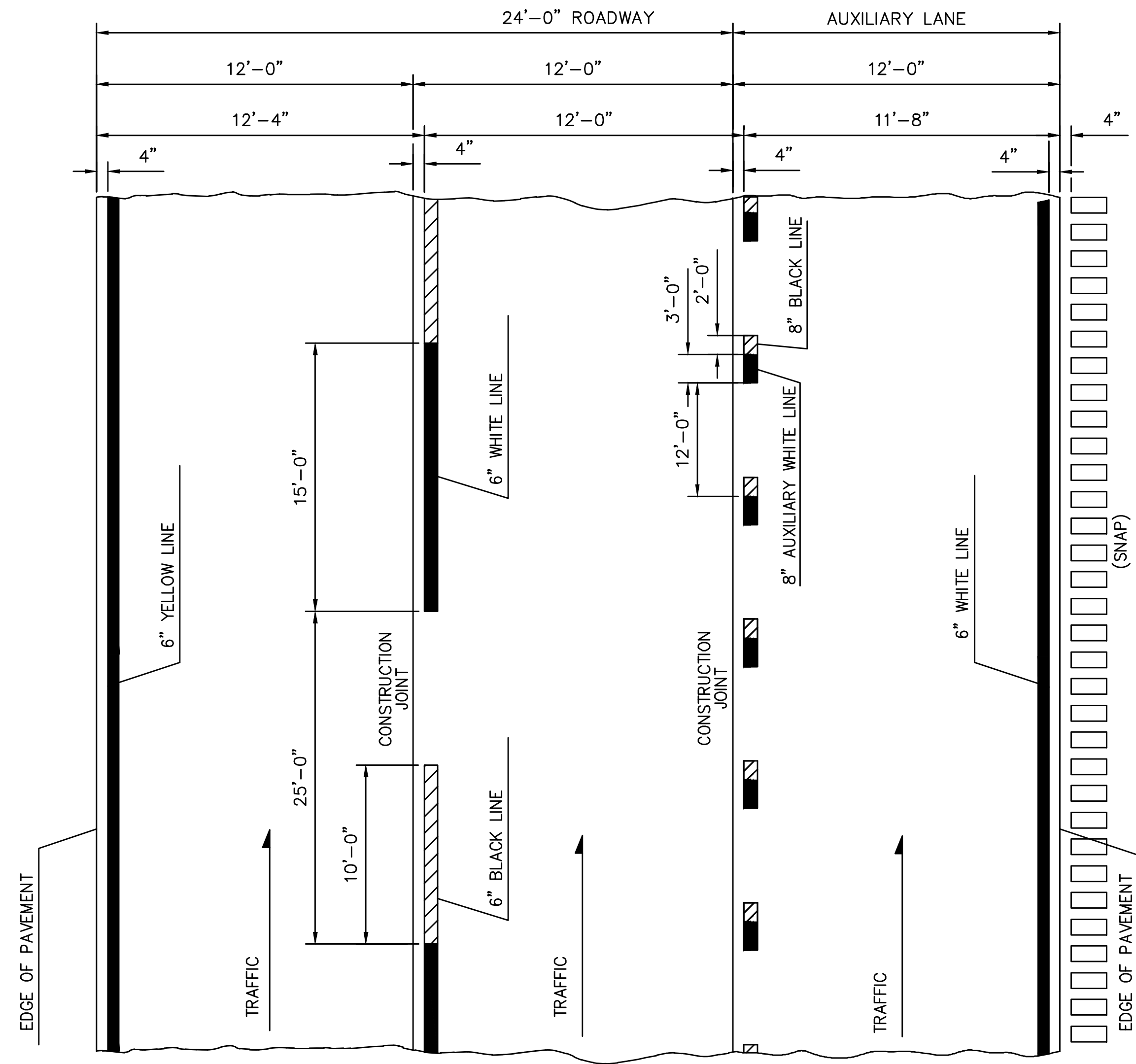


RECOMMENDED: DECEMBER 31, 2019  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
 CHIEF ENGINEER

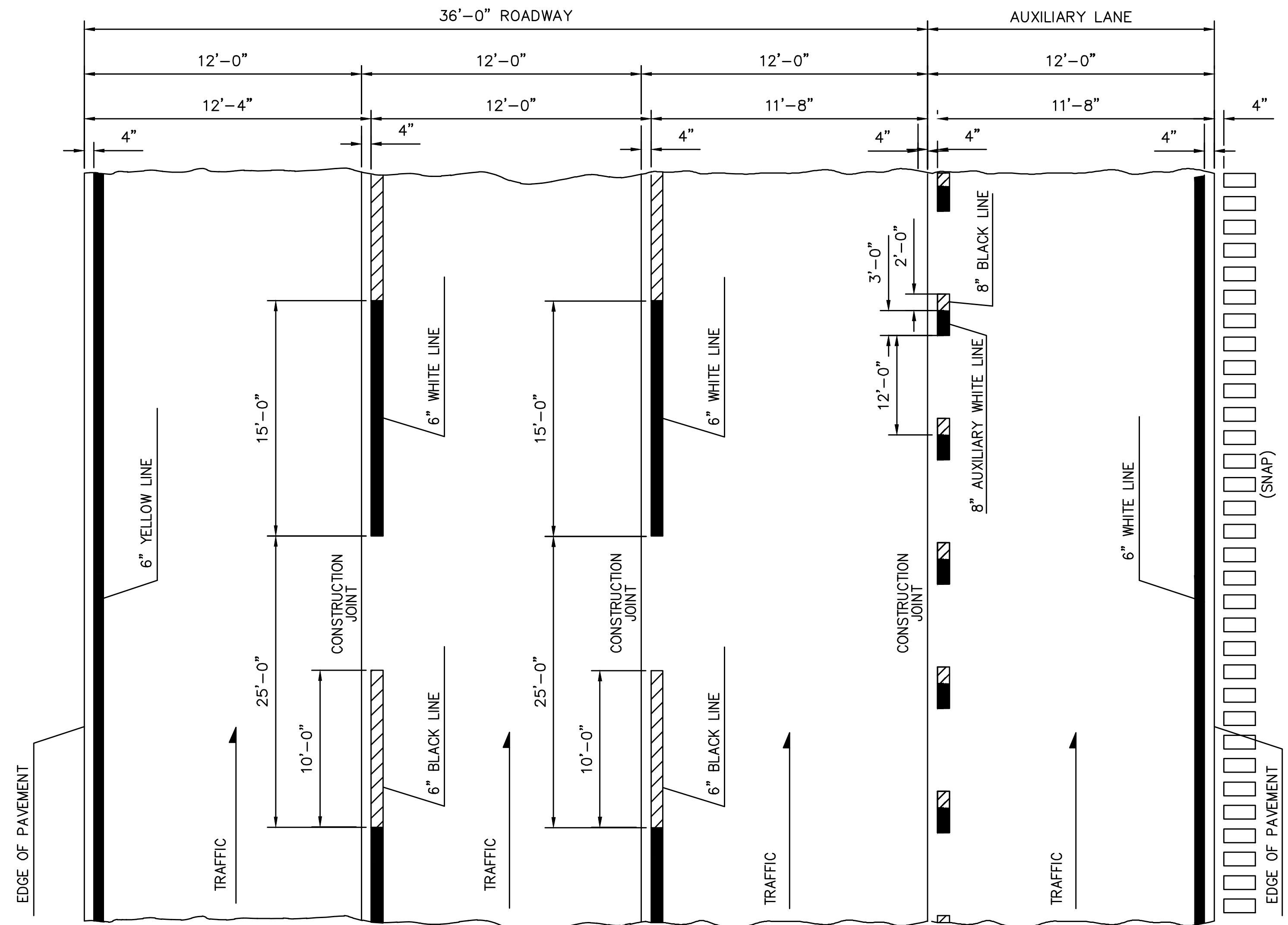
CONSTRUCTION AND MAINTENANCE  
 PERMANENT TRAFFIC LINE MARKINGS  
 HIGH CONTRAST MARKINGS

PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING

FILE NAME: PTS-980-9.dwg  
 DRAWING TYPE: 5A  
 SHEET 9 OF 40  
 DATE: DECEMBER 2019  
 PTS-980



2 LANES

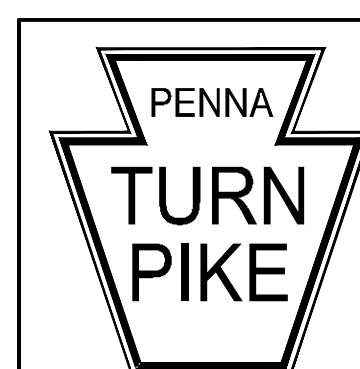


3 LANES

PERMANENT AUXILIARY LANE LINE

NOTES:

- REFER TO PTS-192 FOR PLACEMENT AND DETAILS OF SONIC NAP ALERT PATTERN (SNAP).



RECOMMENDED: DECEMBER 31, 2019

*Gayle J. John*

ASSISTANT CHIEF ENGINEER - DESIGN

APPROVED: DECEMBER 30, 2019

*[Signature]*

CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE  
PERMANENT TRAFFIC LINE MARKINGS  
HIGH CONTRAST MARKINGS

PENNSYLVANIA TURNPIKE COMMISSION  
STANDARD DRAWING

FILE NAME: PTS-980-10.dwg

DRAWING TYPE: 5A

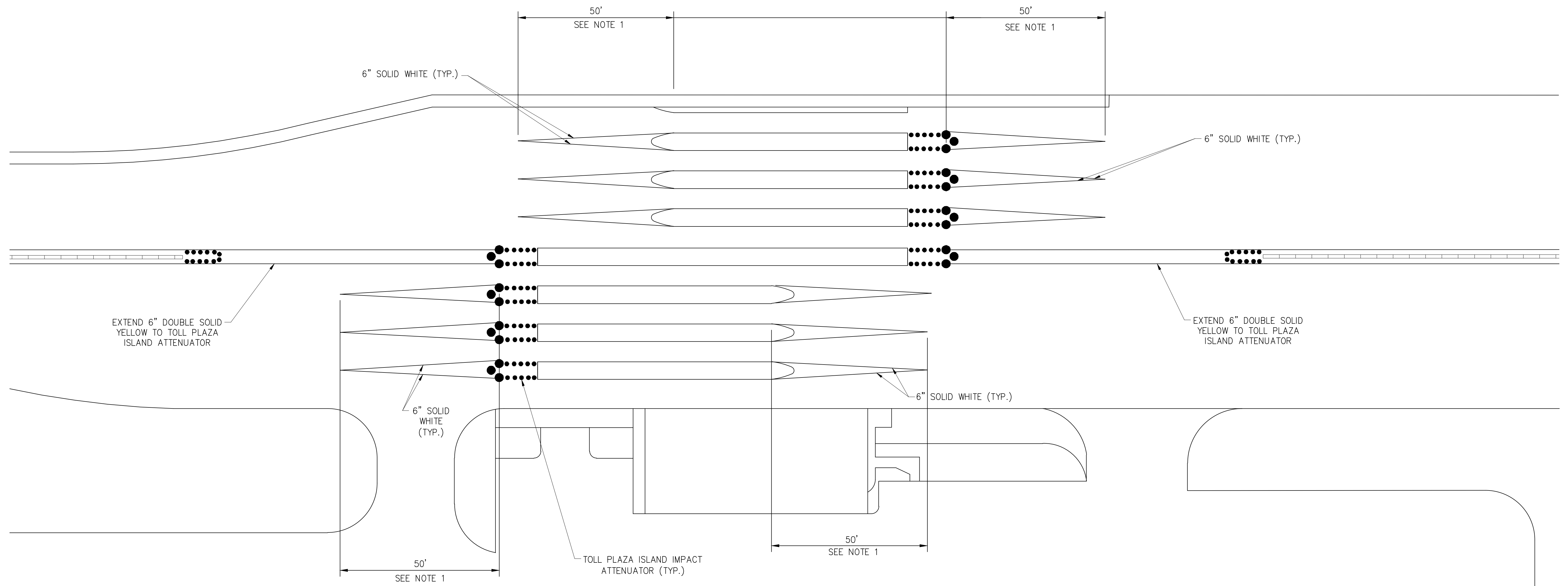
SHEET 10 OF 40

DATE: DECEMBER 2019

PTS-980

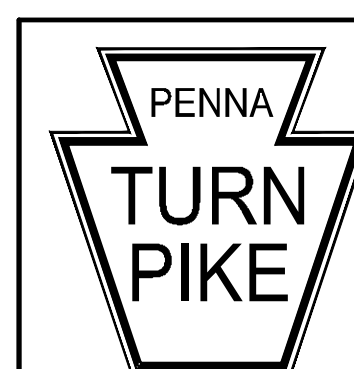






NOTES:

1. BEGIN 6" SOLID WHITE AT END OF ISLAND ATTENUATOR. IF ATTENUATOR IS NOT PRESENT BEGIN AT END OF TOLL PLAZA ISLAND.



RECOMMENDED: DECEMBER 31, 2019  
*Gayle Gilman*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

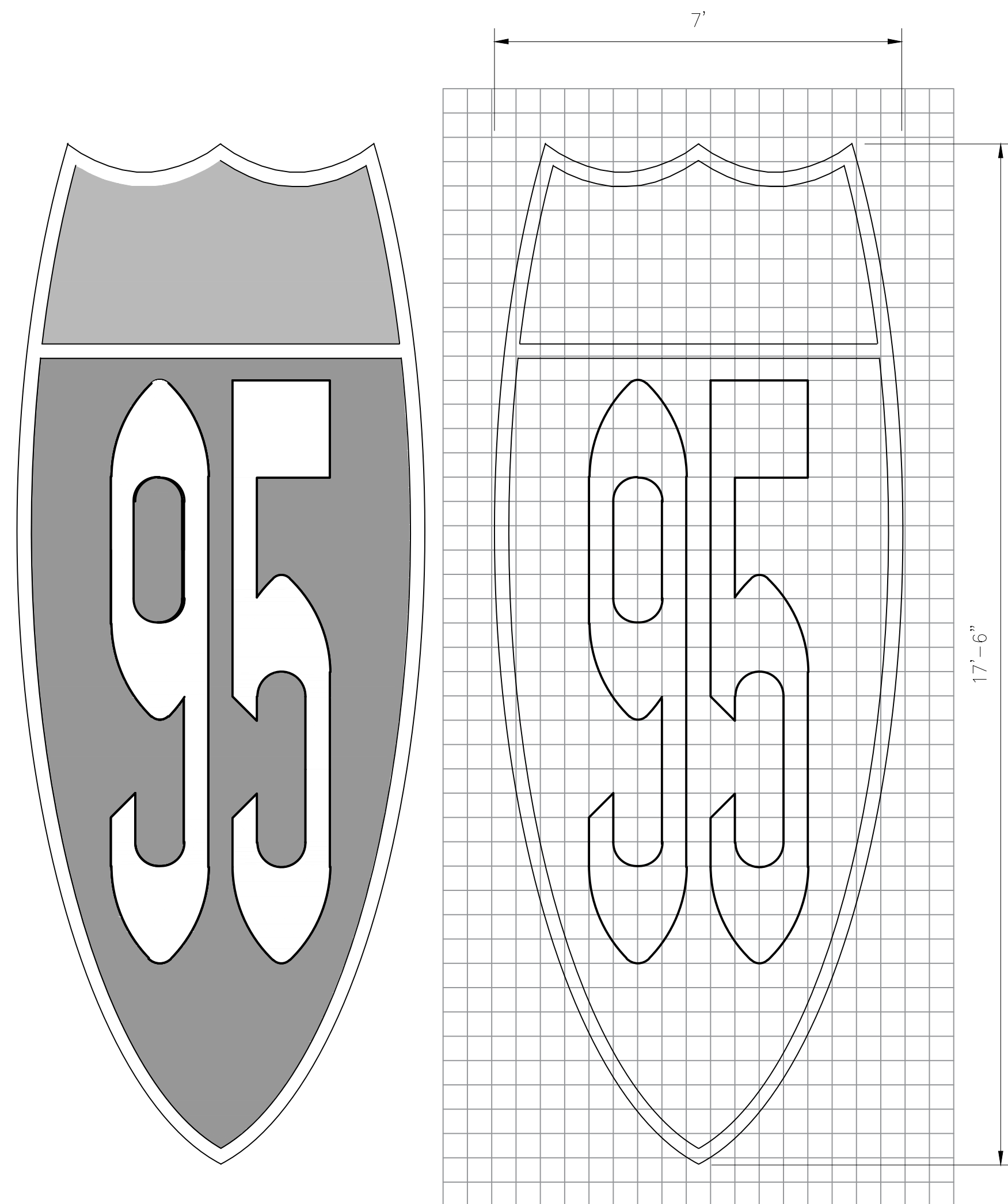
CONSTRUCTION AND MAINTENANCE  
 TOLL PLAZA ISLAND  
 PERMANENT TRAFFIC LINE MARKINGS

PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING

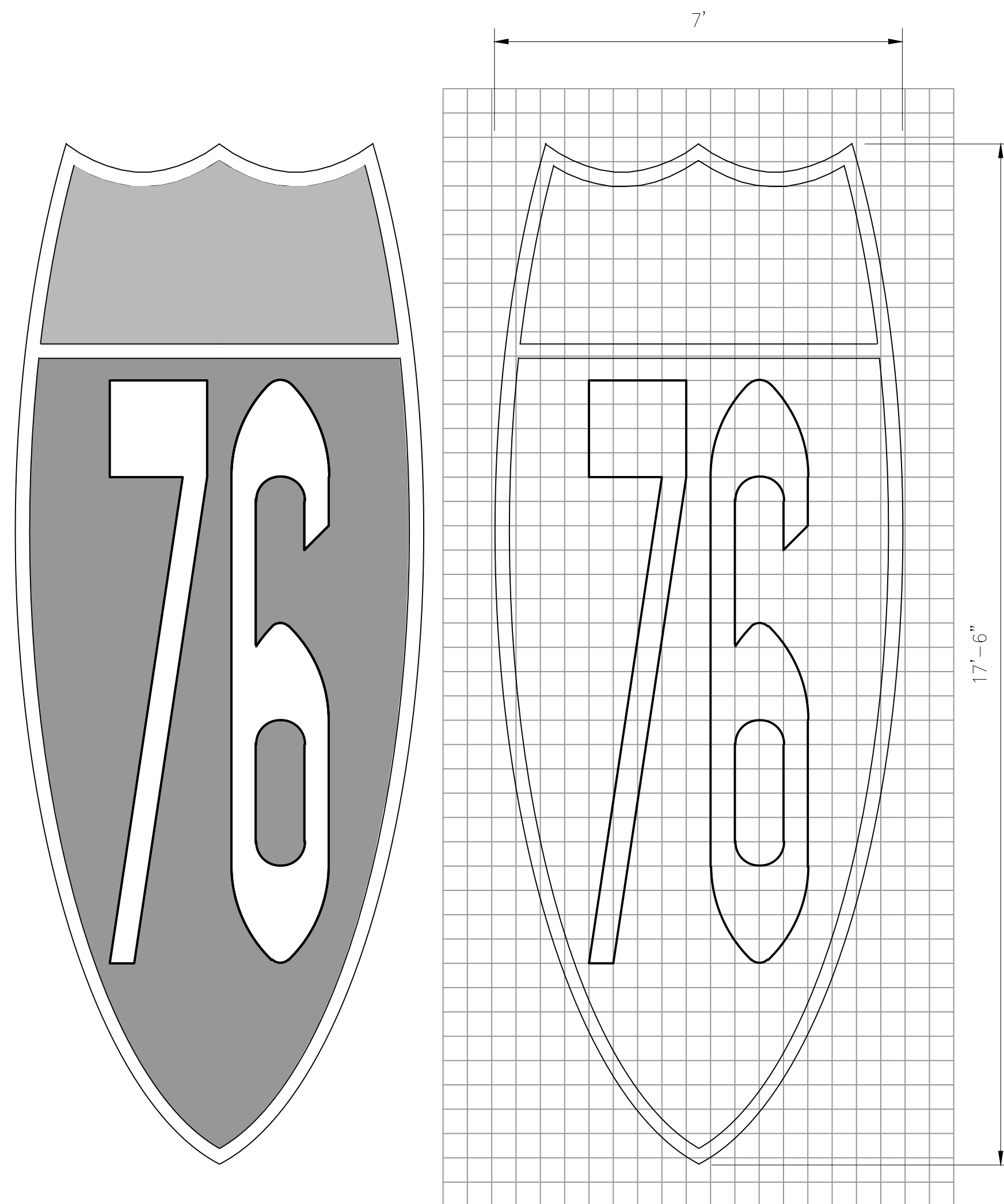
FILE NAME: PTS-980-13.dwg  
 DRAWING TYPE: 5A

SHEET 13 OF 40

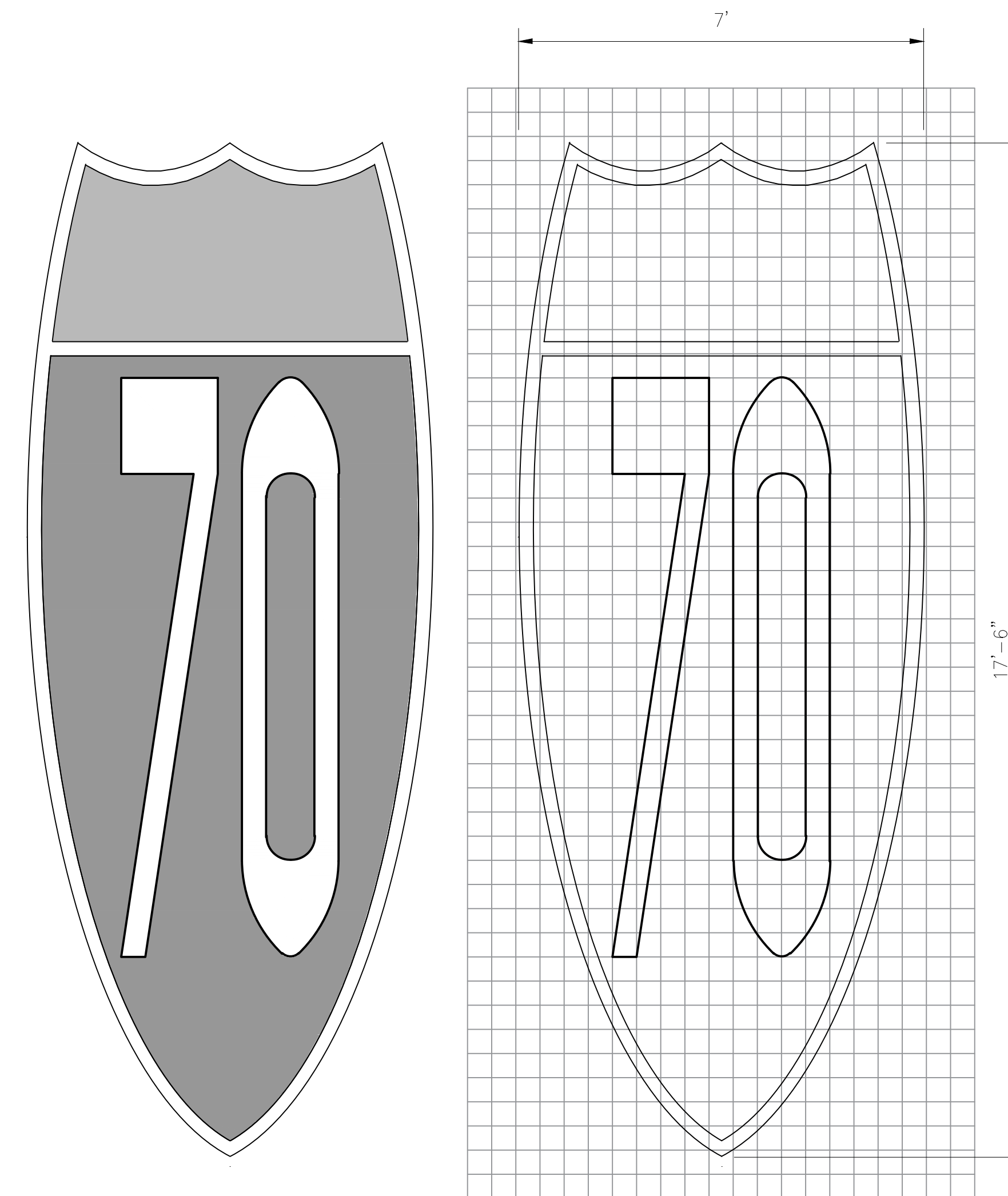
DATE: DECEMBER 2019  
 PTS-980



COLOR:  
 WHITE REFLECTORIZED LEGEND AND BORDER  
 RED REFLECTORIZED TOP BACKGROUND  
 BLUE REFLECTORIZED BOTTOM BACKGROUND

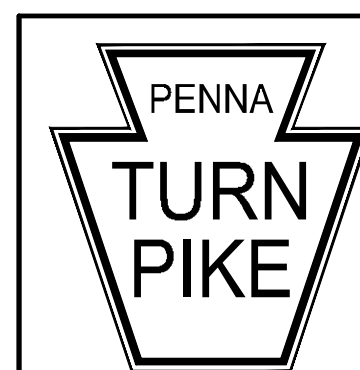


COLOR:  
 WHITE REFLECTORIZED LEGEND AND BORDER  
 RED REFLECTORIZED TOP BACKGROUND  
 BLUE REFLECTORIZED BOTTOM BACKGROUND



COLOR:  
 WHITE REFLECTORIZED LEGEND AND BORDER  
 RED REFLECTORIZED TOP BACKGROUND  
 BLUE REFLECTORIZED BOTTOM BACKGROUND

- NOTES:  
 1. REFER TO PENNDOT PUB 111 TC-8600 FOR STANDARD PAVEMENT MARKING ALPHABET.  
 2. STANDARD CHARACTERS ARE 24 GRID UNITS HIGH AND 4 UNITS WIDE.  
 3. FOR 10' HIGH CHARACTERS THE WIDTH IS 20" (USE 5" FOR EACH GRID SQUARE).  
 4. SPACE 1 UNIT BETWEEN CHARACTERS.



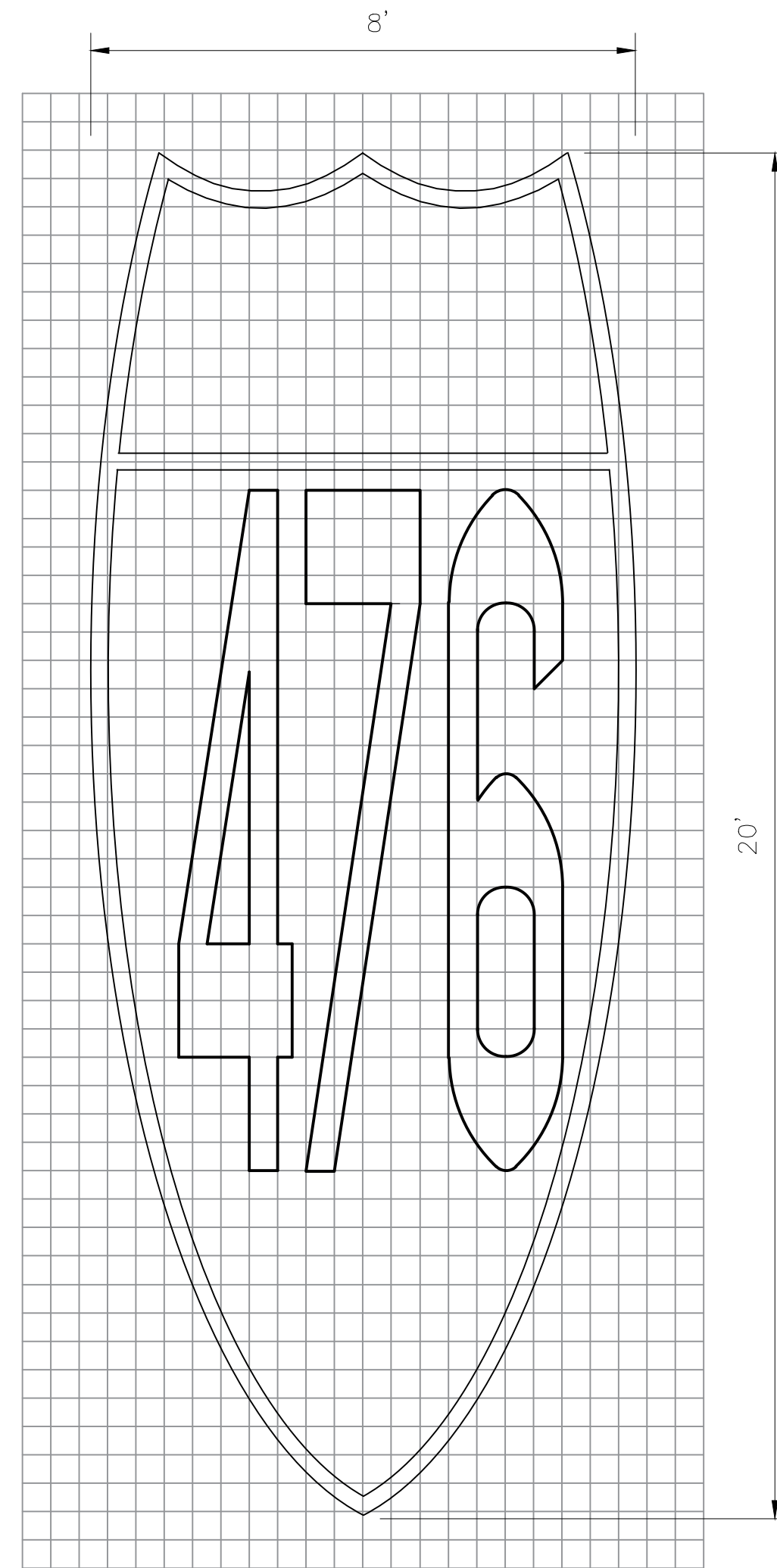
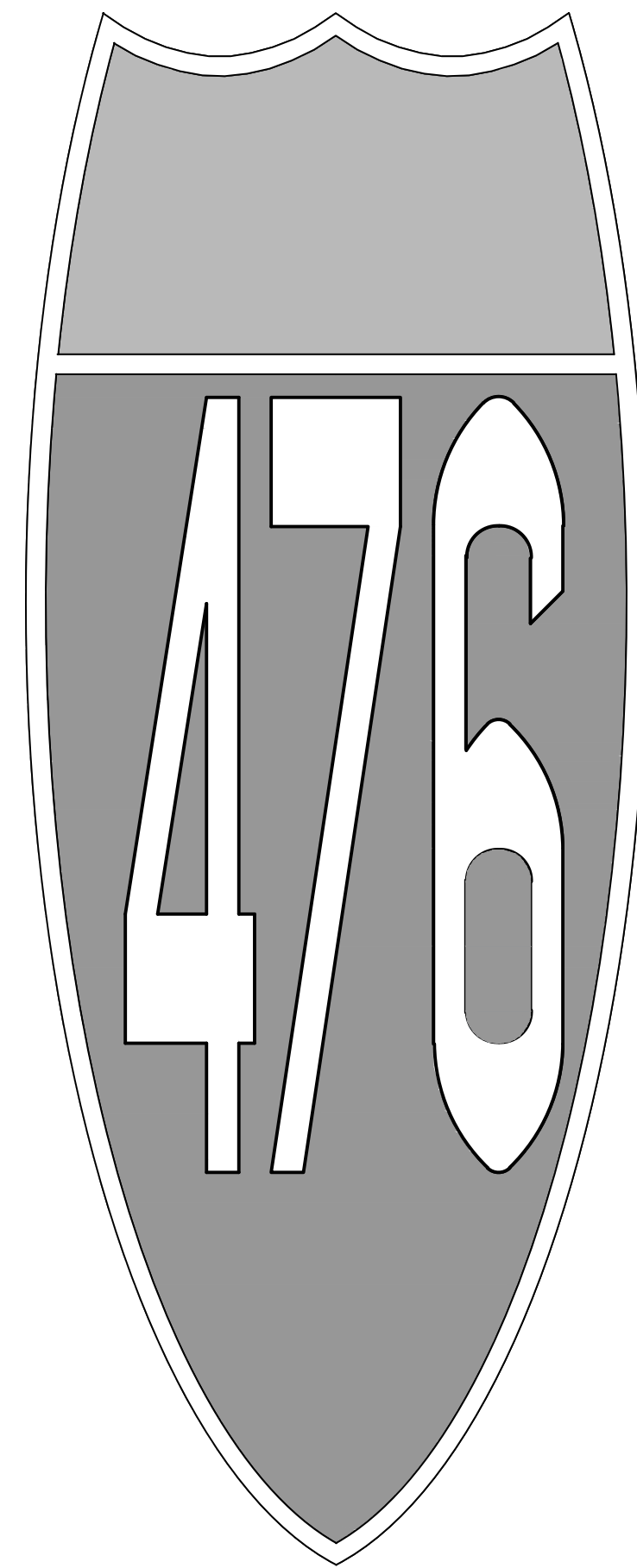
RECOMMENDED: DECEMBER 31, 2019  
*Gayle S. Gilman*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE  
 PAVEMENT MARKING DETAIL  
 INTERSTATE SHEILDS 2 DIGITS

PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING

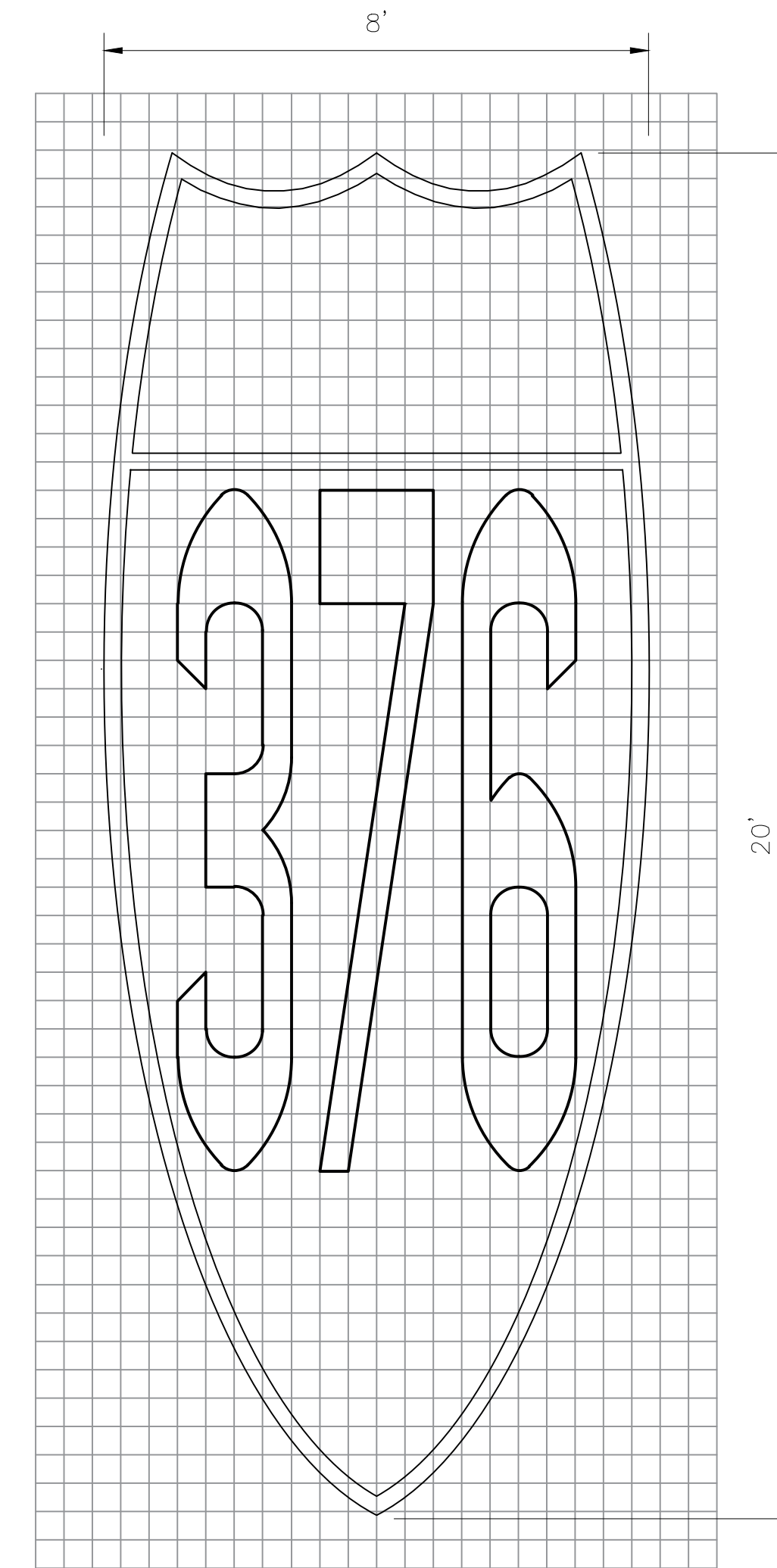
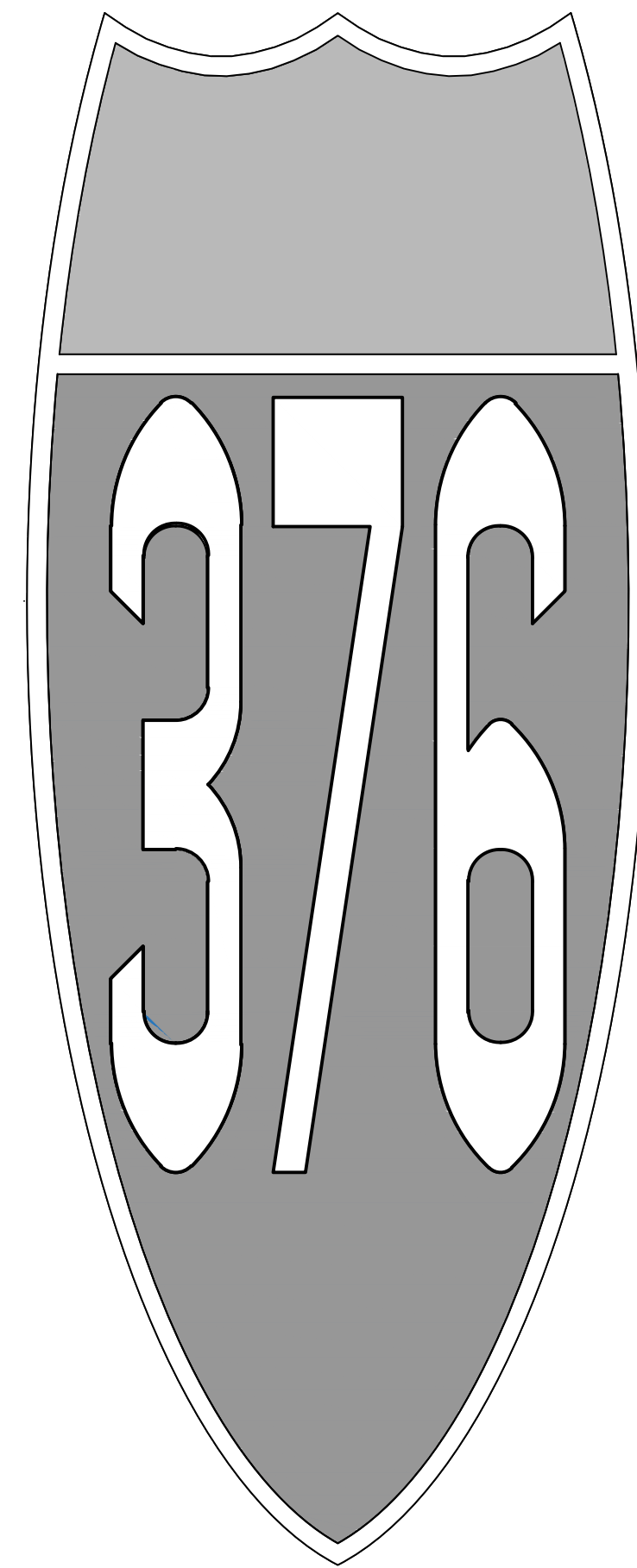
FILE NAME: PTS-980-14.dwg	SHEET 14 OF 40
DRAWING TYPE: 5A	
DATE: DECEMBER 2019	PTS-980





COLOR:

WHITE REFLECTORIZED LEGEND AND BORDER  
 RED REFLECTORIZED TOP BACKGROUND  
 BLUE REFLECTORIZED BOTTOM BACKGROUND

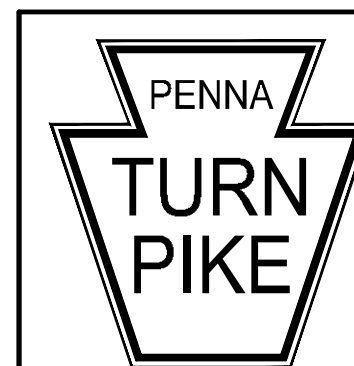


COLOR:

WHITE REFLECTORIZED LEGEND AND BORDER  
 RED REFLECTORIZED TOP BACKGROUND  
 BLUE REFLECTORIZED BOTTOM BACKGROUND

**NOTES:**

1. REFER TO PENNDOT PUB 111 TC-8600 FOR STANDARD PAVEMENT MARKING ALPHABET.
2. STANDARD CHARACTERS ARE 24 GRID UNITS HIGH AND 4 UNITS WIDE.
3. FOR 10' HIGH CHARACTERS THE WIDTH IS 20" (USE 5" FOR EACH GRID SQUARE).
4. SPACE 1 UNIT BETWEEN CHARACTERS.

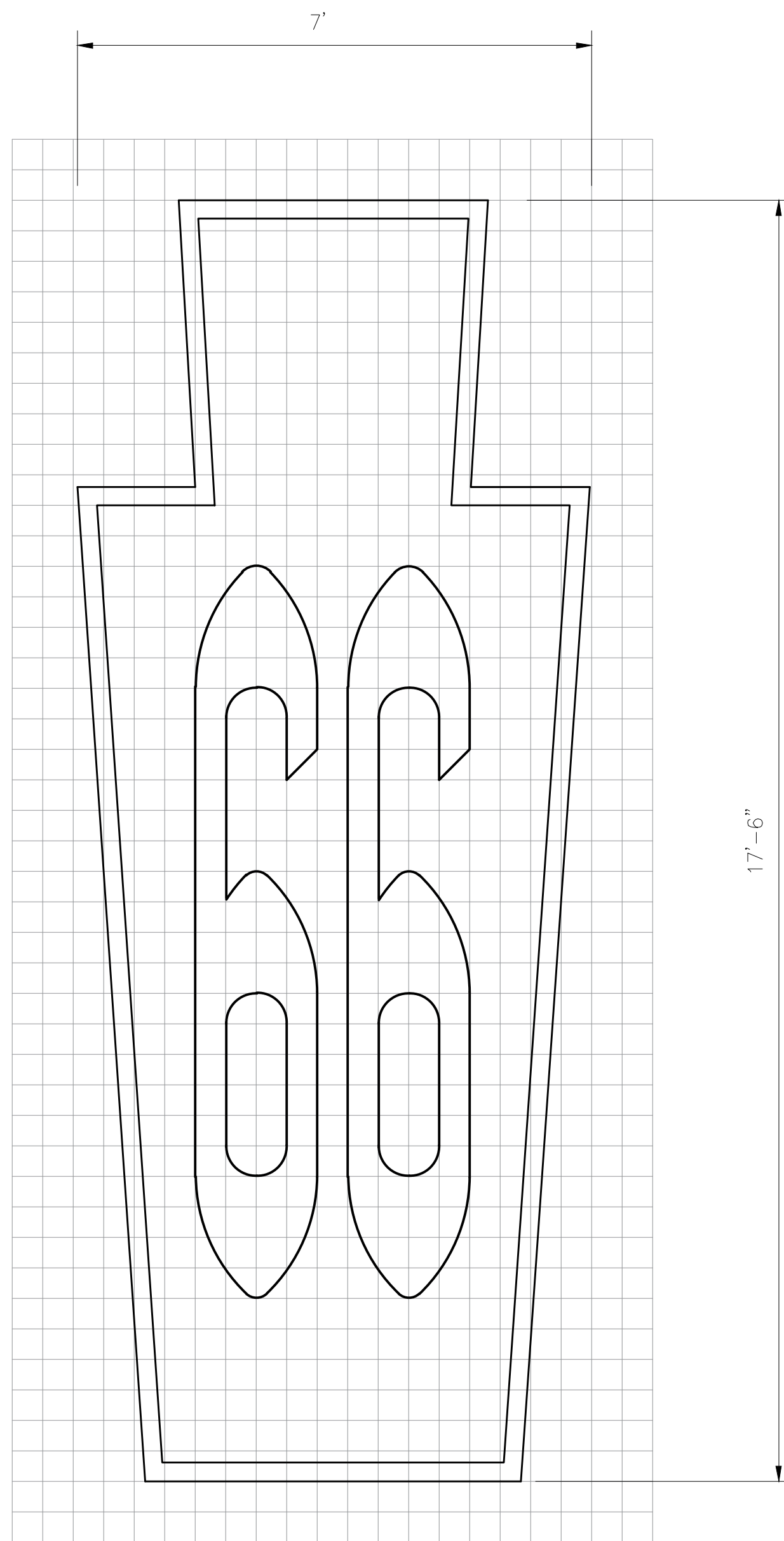
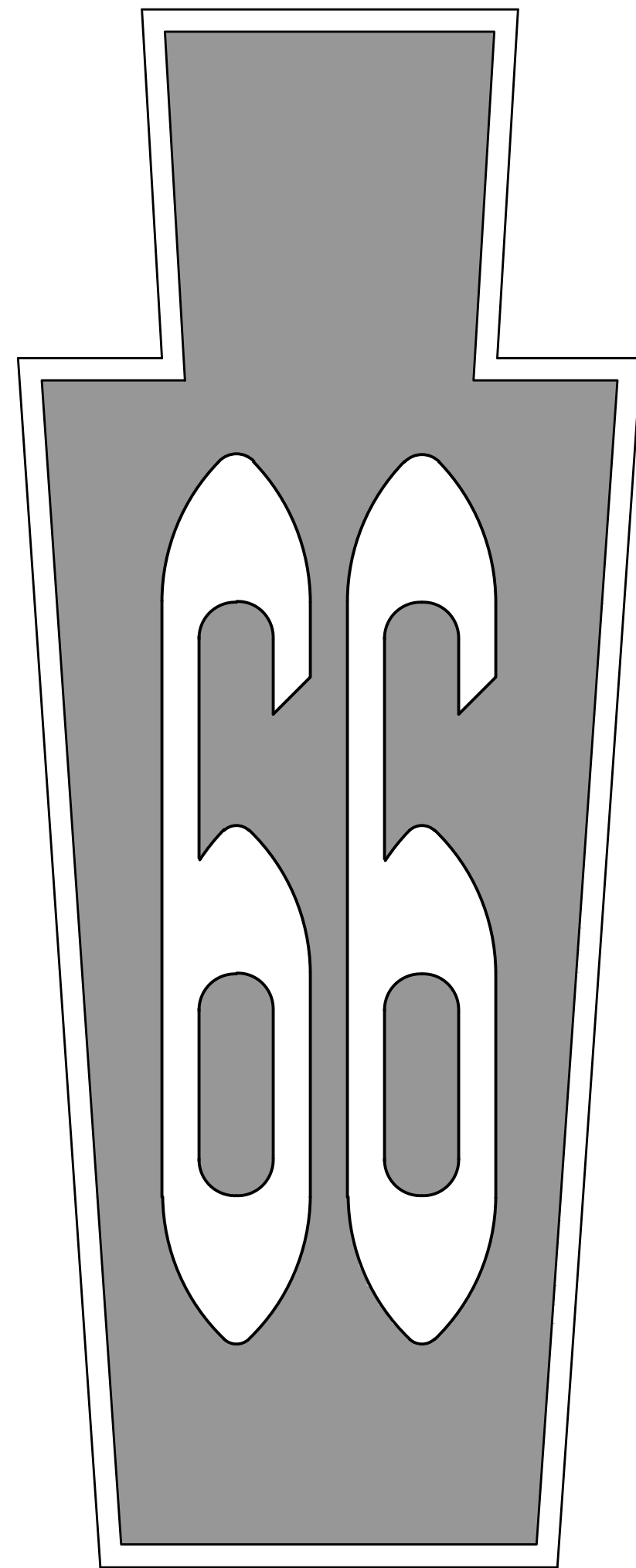


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*Gayle S. Gilman*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

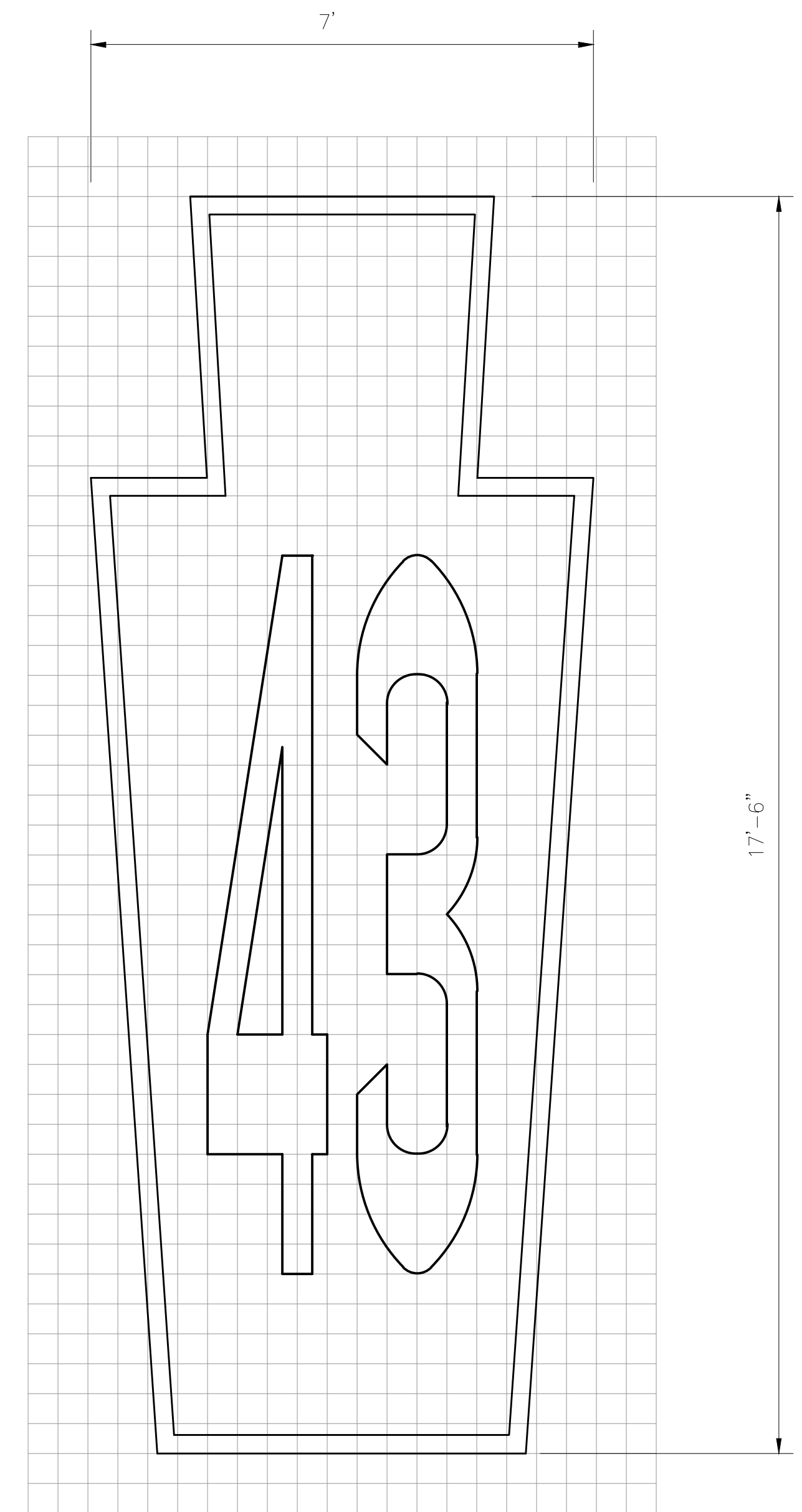
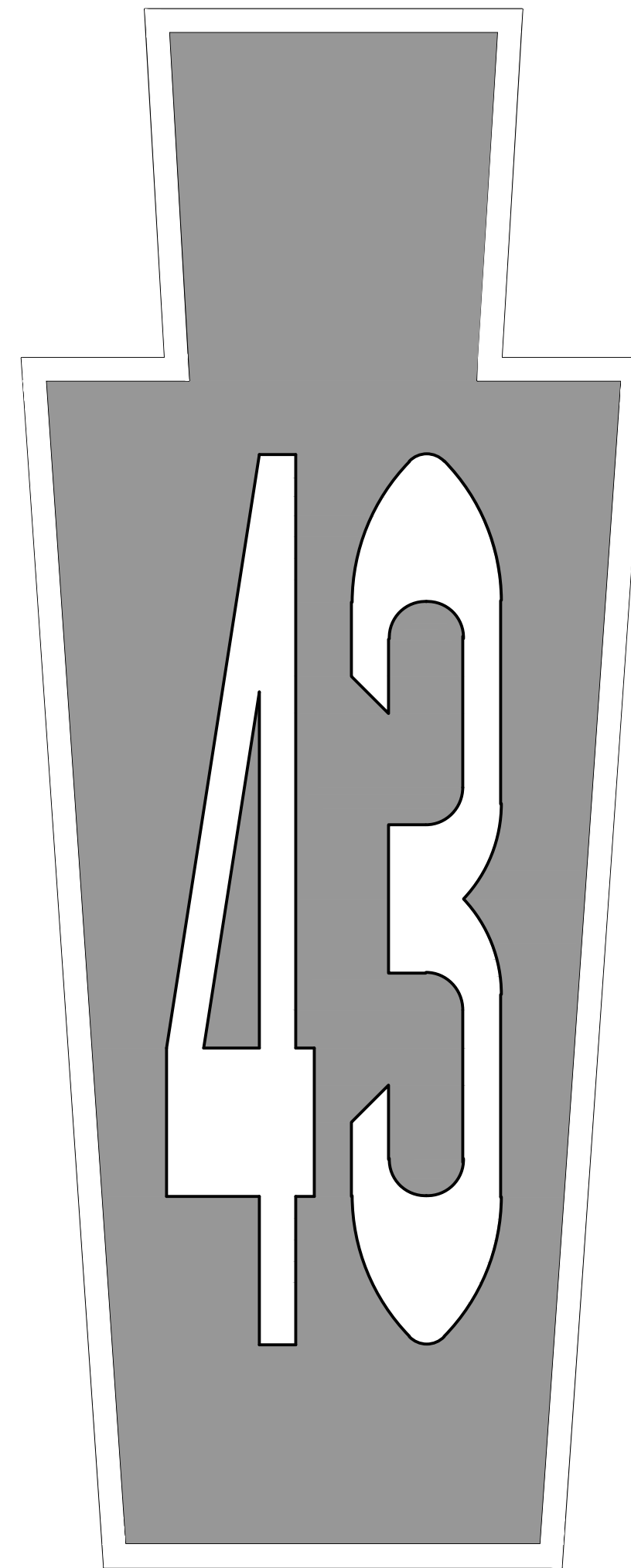
**CONSTRUCTION AND MAINTENANCE  
 PAVEMENT MARKING DETAILS  
 INTERSTATE SHEILDS 3 DIGITS**

**PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING**

FILE NAME: PTS-980-15.dwg	SHEET 15 OF 40
DRAWING TYPE: 5A	
DATE: DECMBER 2019	PTS-980

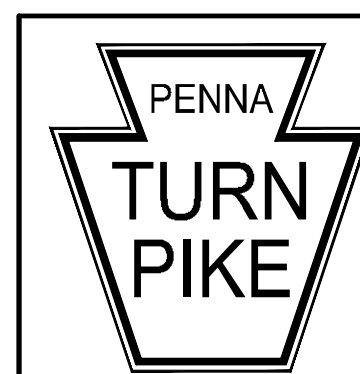


COLOR:  
 WHITE REFLECTORIZED LEGEND AND BORDER  
 GREEN REFLECTORIZED BACKGROUND



COLOR:  
 WHITE REFLECTORIZED LEGEND AND BORDER  
 GREEN REFLECTORIZED BACKGROUND

- NOTES:
1. REFER TO PENNDOT PUB 111 TC-8600 FOR STANDARD PAVEMENT MARKING ALPHABET.
  2. STANDARD CHARACTERS ARE 24 GRID UNITS HIGH AND 4 UNITS WIDE.
  3. FOR 10' HIGH CHARACTERS THE WIDTH IS 20" (USE 5" FOR EACH GRID SQUARE).
  4. SPACE 1 UNIT BETWEEN CHARACTERS.



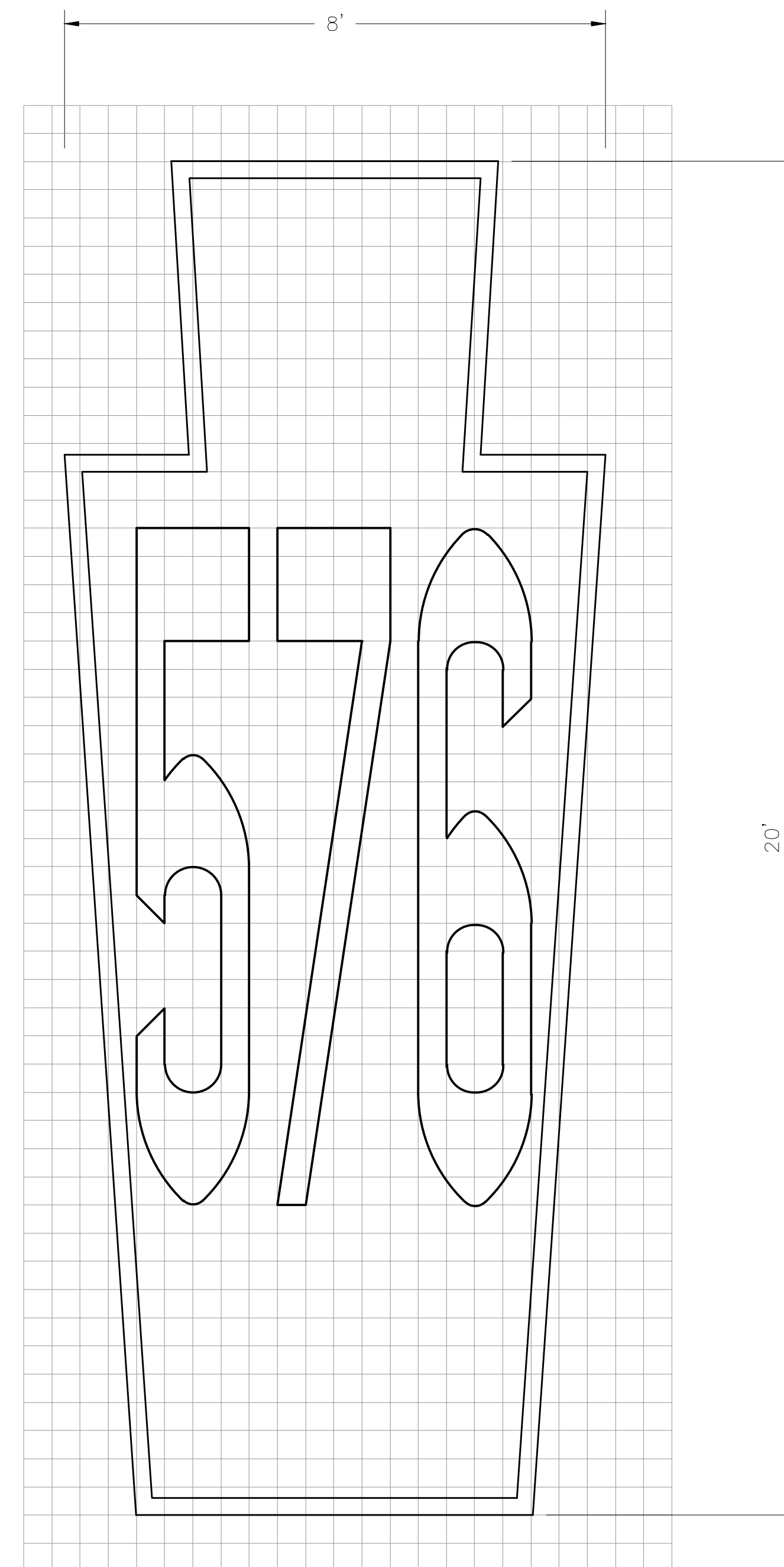
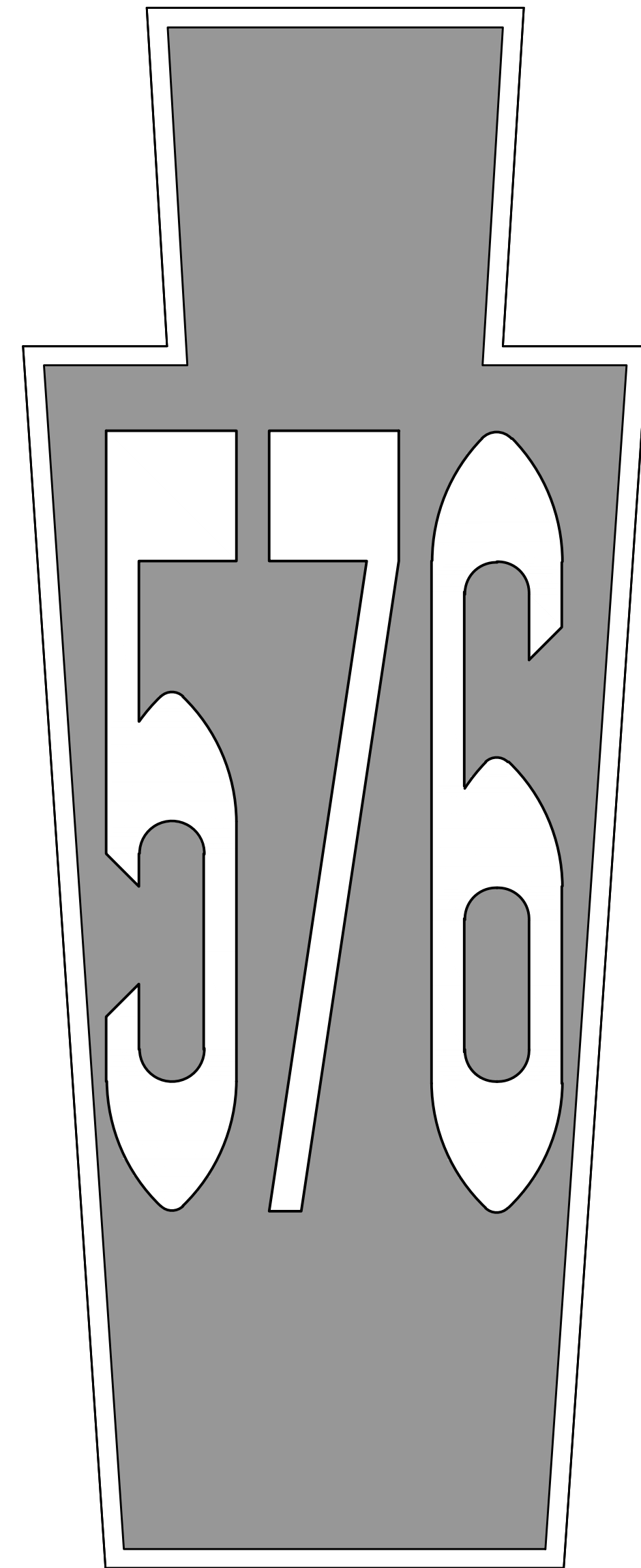
RECOMMENDED: DECEMBER 31, 2019  
*Gayle Gilman*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE  
 PAVEMENT MARKING DETAIL  
 PA TURNPIKE SHIELD 2 DIGITS

PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING

FILE NAME: PTS-980-16.dwg	SHEET 16 OF 40
DRAWING TYPE: 5A	
DATE: DECEMBER 2019	PTS-980



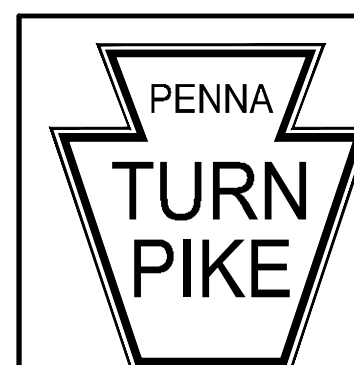


COLOR:

WHITE REFLECTORIZED LEGEND AND BORDER  
 GREEN REFLECTORIZED BACKGROUND

**NOTES:**

1. REFER TO PENNDOT PUB 111 TC-8600 FOR STANDARD PAVEMENT MARKING ALPHABET.
2. STANDARD CHARACTERS ARE 24 GRID UNITS HIGH AND 4 UNITS WIDE.
3. FOR 10' HIGH CHARACTERS THE WIDTH IS 20" (USE 5" FOR EACH GRID SQUARE).
4. SPACE 1 UNIT BETWEEN CHARACTERS.



RECOMMENDED: DECEMBER 31, 2019
<i>Gayle Gilman</i>
ASSISTANT CHIEF ENGINEER - DESIGN
APPROVED: DECEMBER 30, 2019
<i>[Signature]</i>
CHIEF ENGINEER

**CONSTRUCTION AND MAINTENANCE  
 PAVEMENT MARKING DETAIL  
 PA TURNPIKE SHIELD 3 DIGITS**

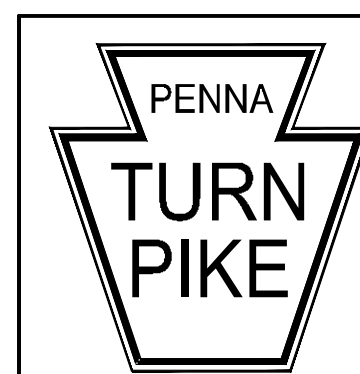
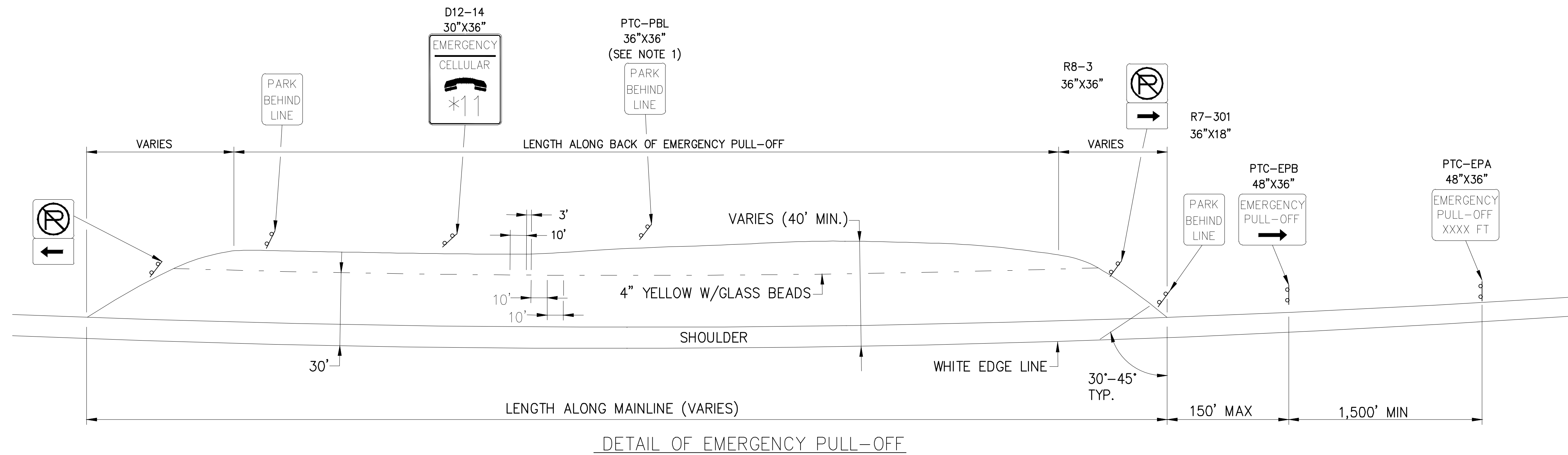
**PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING**

FILE NAME: PTS-980-17.dwg	SHEET 17 OF 40
DRAWING TYPE: 5A	
<b>DATE: DECEMBER 2019</b>	<b>PTS-980</b>

SIGN	NO. OF 4"X6" WOOD POSTS REQ'D. FOR EACH SIGN	TYPICAL NO. OF SIGNS
PTC-EPA	2	1
PTC-EPB	2	1
PTC-PBL	2	3 (SEE NOTE 1)
R8-3	2	2
R7-301	MOUNT BELOW R8-3	2
D12-14	2	1

**NOTES**

- ADDITIONAL PTC-PBL SIGNS MAY BE INSTALLED IF LENGTH ALONG THE BACK OF PULL-OFF WARRANTS. PLACE SIGNS SUCH THAT A MAXIMUM SPACING OF 500' BETWEEN PTC-PBL SIGNS IS MAINTAINED.
- LOCATE "EMERGENCY PULL-OFF DISTANCE." SIGN (PTC-EPA, 48"X36") APPROXIMATELY 1,500 FEET PRIOR TO BEGINNING OF EMERGENCY PULL-OFF. EXCEPT WHERE SITE CONDITIONS PREVENT PLACEMENT OF THE 1,500 FEET SIGN, THE DISTANCE SHALL BE ROUNDED TO CLOSEST 500 FEET, AS APPROVED BY TRAFFIC ENGINEERING AND OPERATIONS. THE DISTANCE SHALL BE LIMITED TO A MAXIMUM DISTANCE OF 3,000 FEET.



RECOMMENDED: DECEMBER 31, 2019  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
 CHIEF ENGINEER

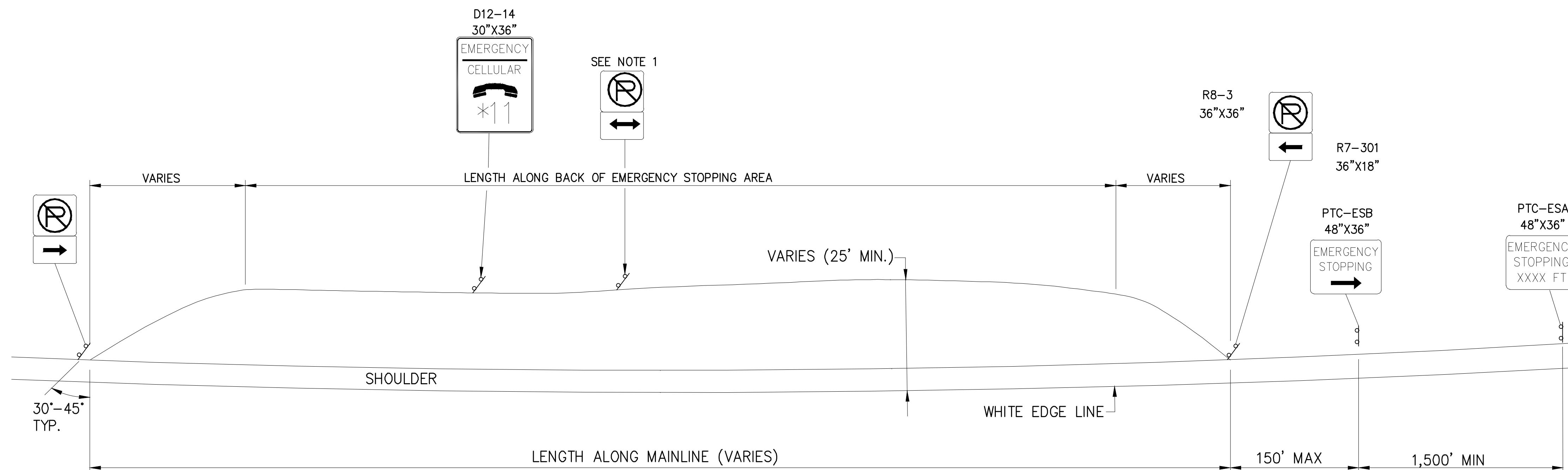
**CONSTRUCTION AND MAINTENANCE  
 EMERGENCY PULL-OFF AREA**

**PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING**  
 FILE NAME: PTS-980-18.dwg  
 DRAWING TYPE: 5A  
 SHEET 18 OF 40  
 DATE: DECEMBER 2019  
 PTS-980

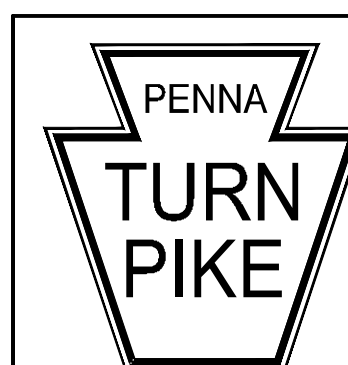
SIGN	NO. OF 4"X6" WOOD POSTS REQ'D. FOR EACH SIGN	TYPICAL NO. OF SIGNS
PTC-ESA	2	1
PTC-ESB	2	1
R8-3	2	2 (SEE NOTE 1)
R7-301	MOUNT BELOW R8-3	2 (SEE NOTE 1)
D12-14	2	1

NOTES

- ADDITIONAL R8-3 AND R7-301 SIGNS MAY BE INSTALLED IF LENGTH ALONG THE BACK OF THE EMERGENCY STOPPING AREA WARRANTS. ADDITIONAL R7-301 SIGNS ALONG THE BACK OF THE EMERGENCY STOPPING AREA ARE TO BE DOUBLE HEADED ARROWS. PLACE SIGNS SUCH THAT A MAXIMUM SPACING OF 500' BETWEEN R8-3 AND R7-301 SIGNS IS MAINTAINED.
- LOCATE "EMERGENCY STOPPING DISTANCE" SIGN (PTC-ESA, 48"X36") APPROXIMATELY 1,500 FEET PRIOR TO BEGINNING OF EMERGENCY STOPPING AREA. EXCEPT WHERE SITE CONDITIONS PREVENT PLACEMENT OF THE 1,500 FEET SIGN, THE DISTANCE SHALL BE ROUNDED TO THE CLOSEST 500 FEET, AS APPROVED BY TRAFFIC ENGINEERING AND OPERATIONS. THE DISTANCE SHALL BE LIMITED TO A MAXIMUM DISTANCE OF 3,000 FEET.



DETAIL OF EMERGENCY STOPPING AREA



RECOMMENDED: DECEMBER 31, 2019  
*Gayle Gilman*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

**CONSTRUCTION AND MAINTENANCE  
 EMERGENCY STOPPING AREA**

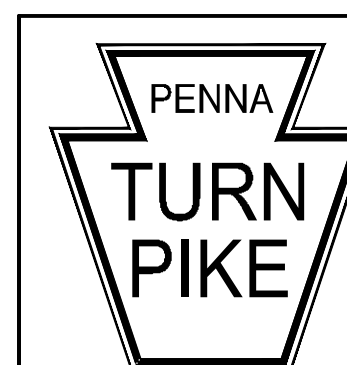
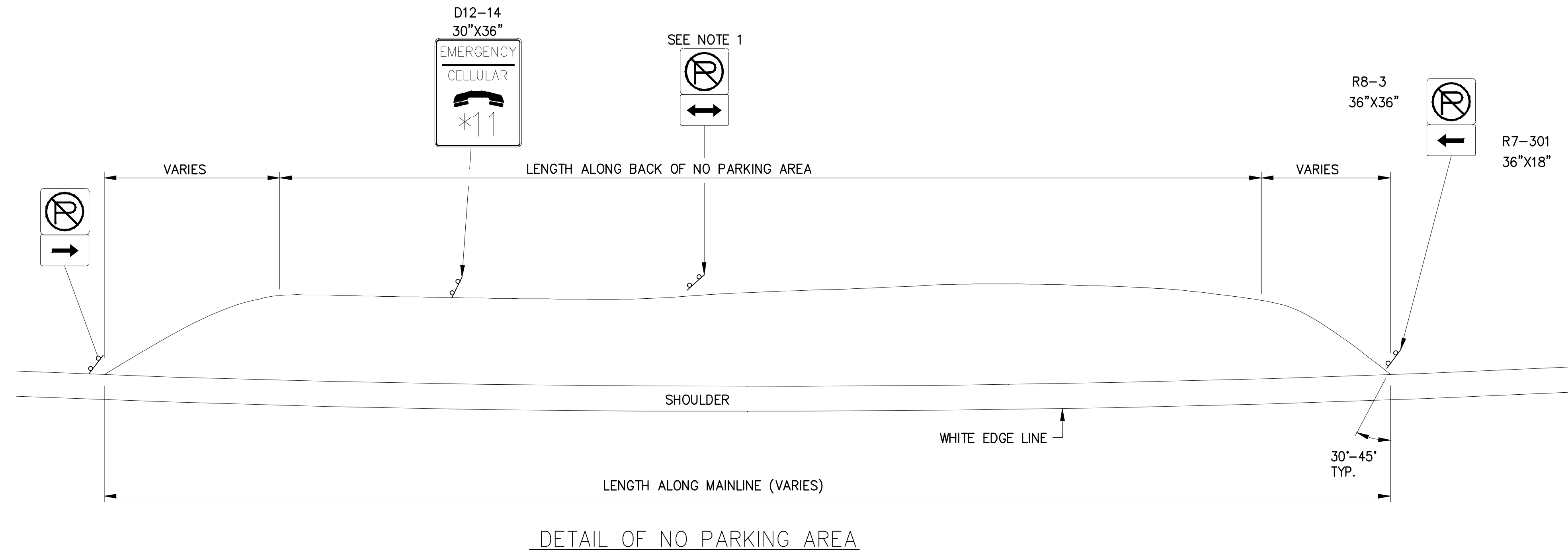
**PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING**

FILE NAME: PTS-980-19.dwg	SHEET 19 OF 40
DRAWING TYPE: 5A	
<b>DATE: DECEMBER 2019</b>	<b>PTS-980</b>

SIGN	NO. OF 4"X6" WOOD POSTS REQ'D. FOR EACH SIGN	TYPICAL NO. OF SIGNS
R8-3	2	2 (SEE NOTE 1)
R7-301	MOUNT BELOW R8-3	2 (SEE NOTE 1)
D12-14	2	1

NOTES

- ADDITIONAL R8-3 AND R7-301 SIGNS MAY BE INSTALLED IF LENGTH ALONG THE BACK OF THE NO PARKING AREA WARRANTS. ADDITIONAL R7-301 SIGNS ALONG THE BACK OF THE NO PARKING AREA ARE TO BE DOUBLE HEADED ARROWS. PLACE SIGNS SUCH THAT A MAXIMUM SPACING OF 500' BETWEEN R8-3 AND R7-301 SIGNS IS MAINTAINED.

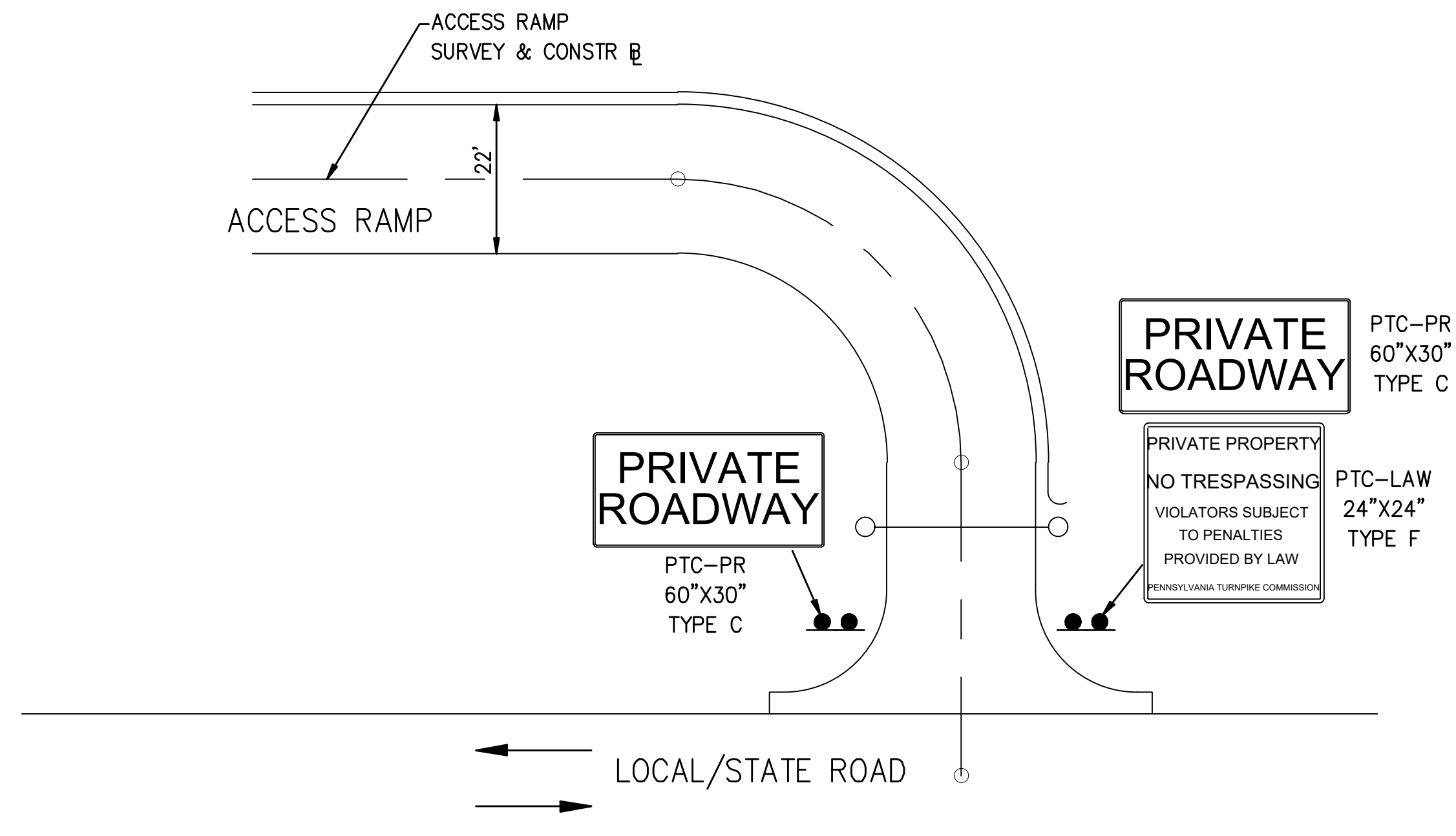


RECOMMENDED: DECEMBER 31, 2019  
*Gayle Gilman*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

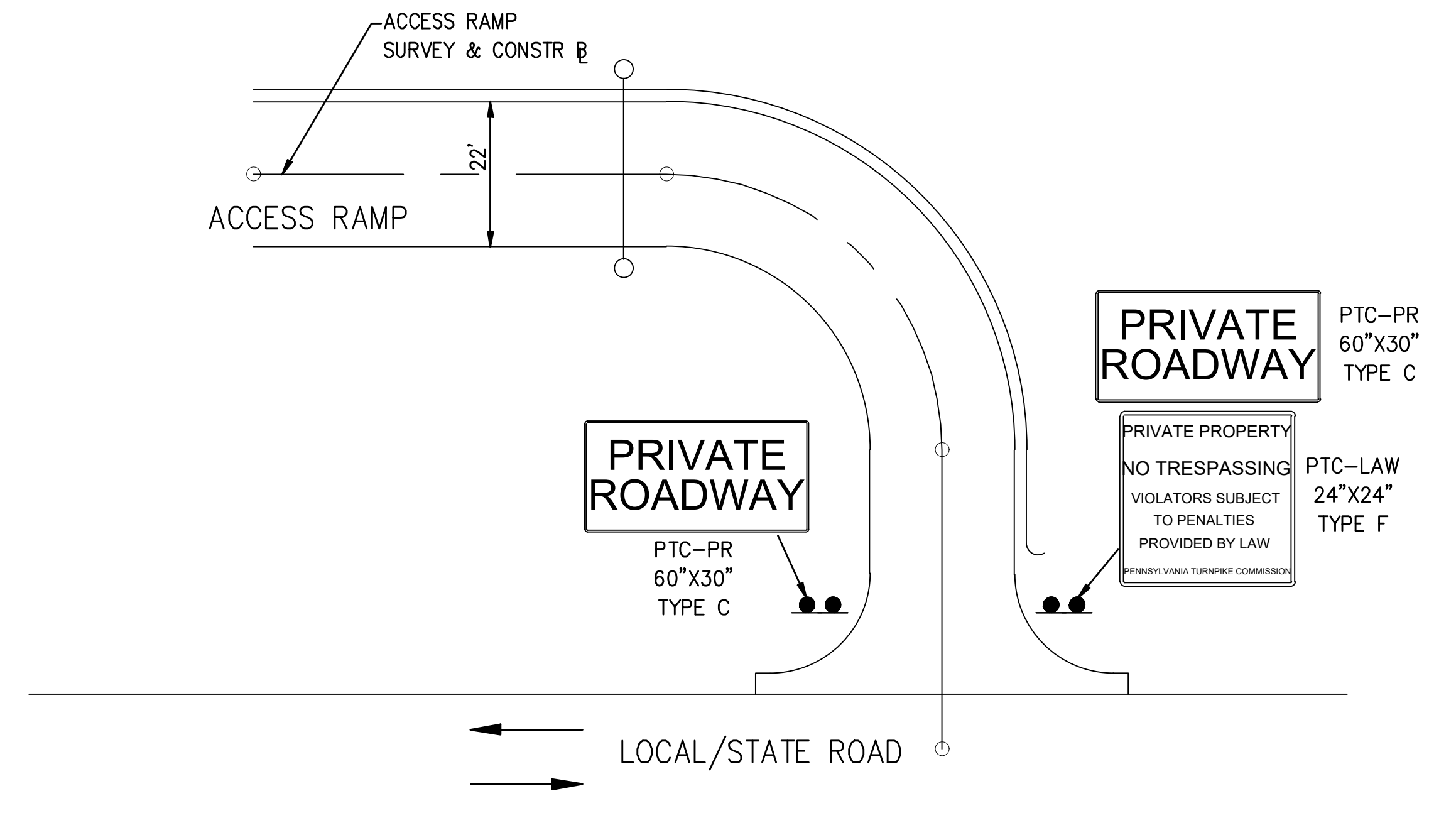
**CONSTRUCTION AND MAINTENANCE  
NO PARKING AREA**

**PENNSYLVANIA TURNPIKE COMMISSION  
STANDARD DRAWING**

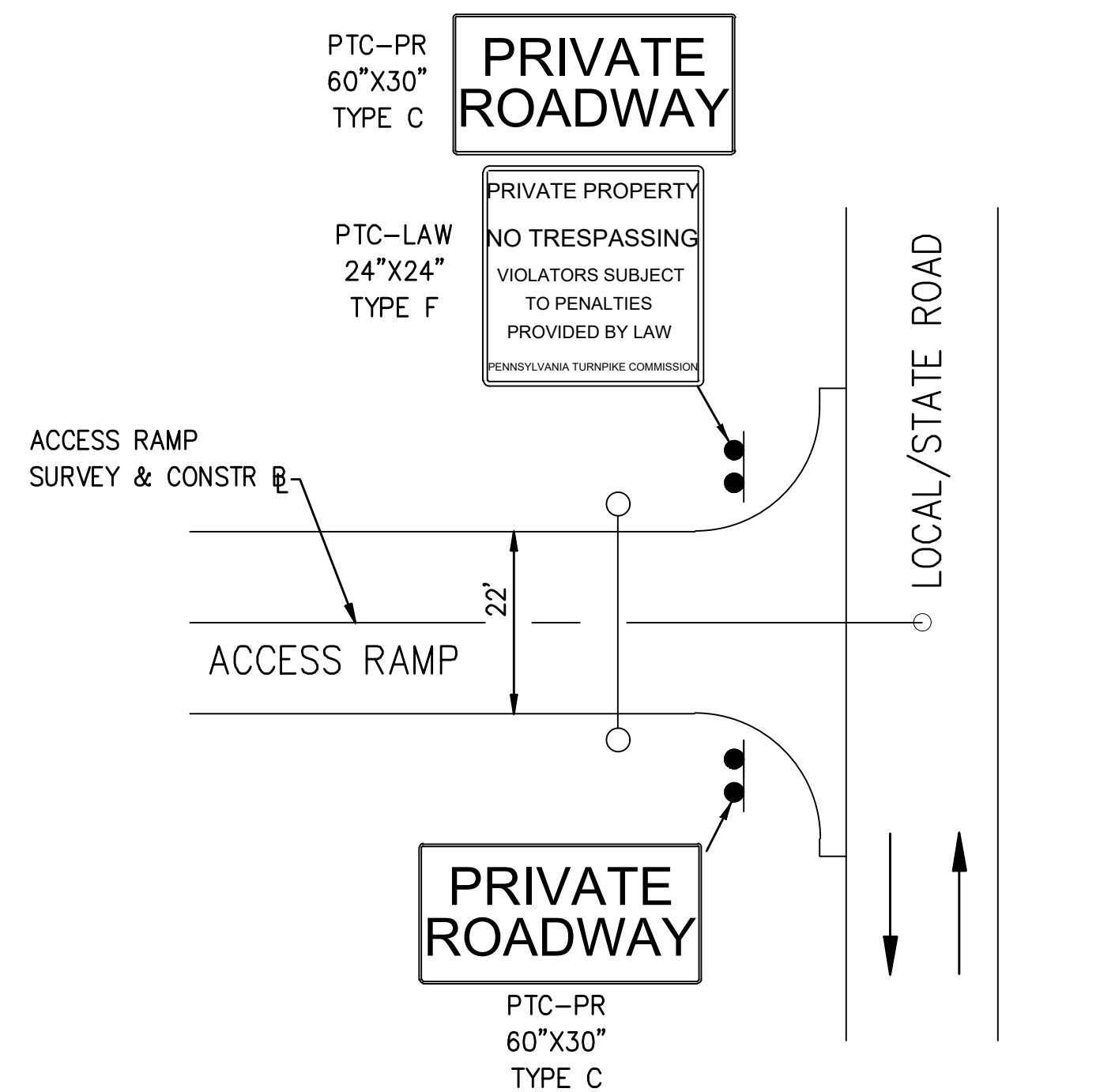
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DRAWING TYPE: 5A	
DATE: DECEMBER 2019	PTS-980



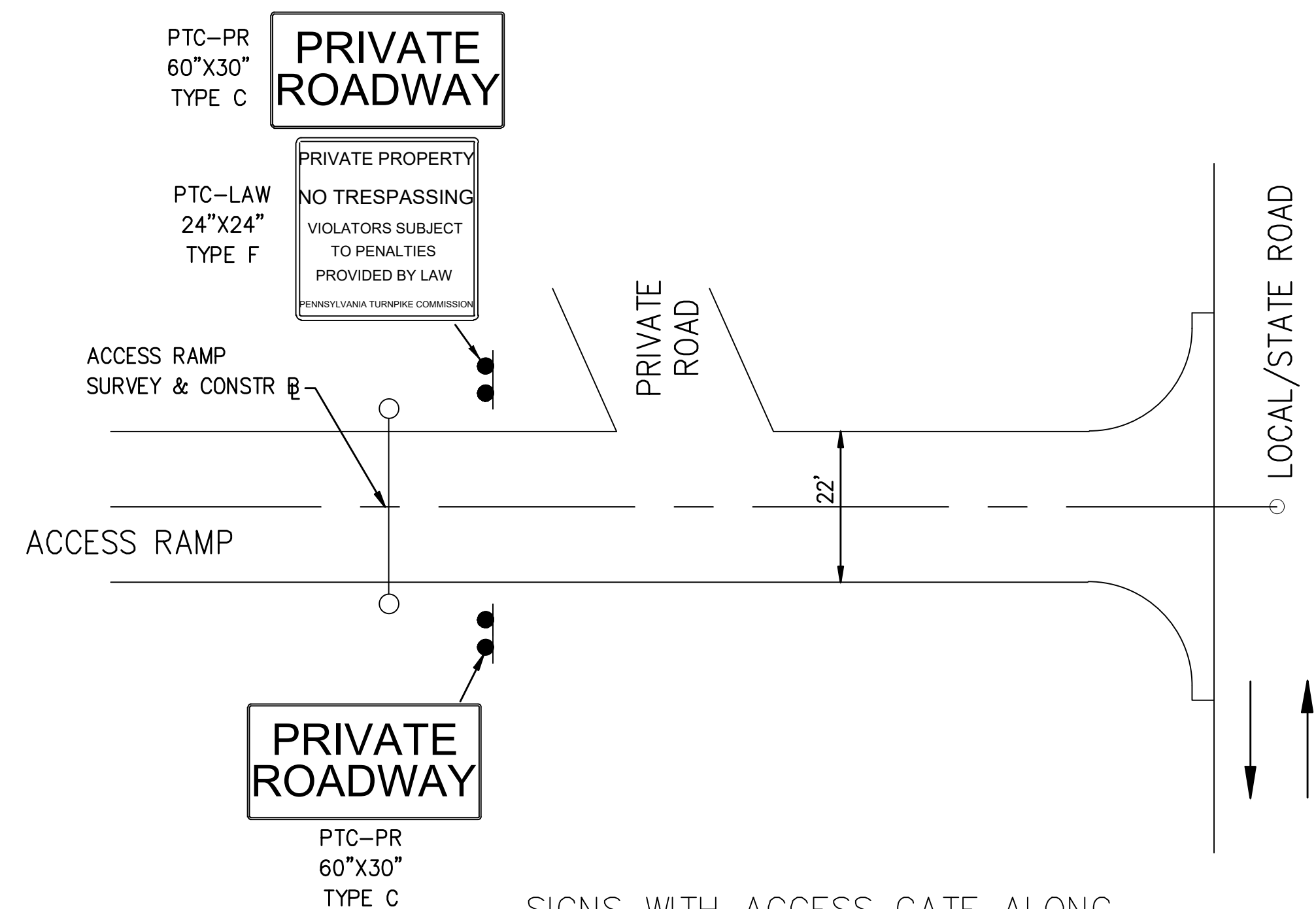
SIGNS WITH ACCESS GATE AT  
ENTRANCE TO LOCAL ROAD



SIGNS AT ENTRANCE TO LOCAL ROAD WITH  
ACCESS GATE BACK FROM LOCAL ROAD



SIGNS WITH ACCESS GATE AT  
ENTRANCE TO LOCAL ROAD  
STRAIGHT ENTRANCE

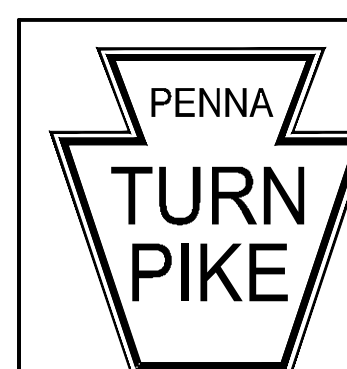


SIGNS WITH ACCESS GATE ALONG  
PTC RIGHT-OF-WAY BACK FROM  
SHARED DRIVEWAY ENTRANCE

**LEGEND**

- SIGN & SUPPORT
- ACCESS GATE
- TRAFFIC FLOW

- NOTES:**
1. SIGNS TO BE INSTALLED ON PTC RIGHT-OF-WAY.
  2. SIGNS TO BE INSTALLED FACING VEHICLES THAT ARE ENTERING FROM THE LOCAL OR STATE ROAD.



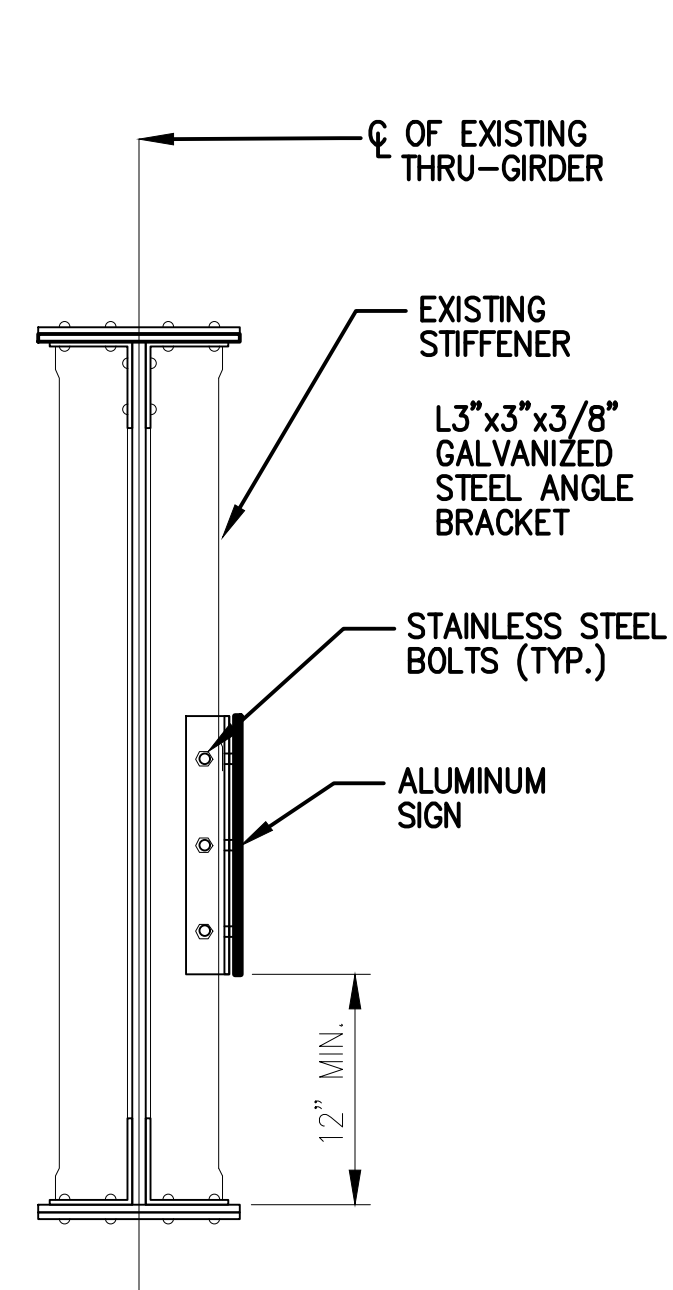
RECOMMENDED: DECEMBER 31, 2019  
*Gary L. Gilman*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*M. B. [Signature]*  
 CHIEF ENGINEER

**CONSTRUCTION AND MAINTENANCE  
 PRIVATE ROADWAY AND  
 NO TRESPASSING SIGN LOCATION  
 INSTALLATION DETAILS**

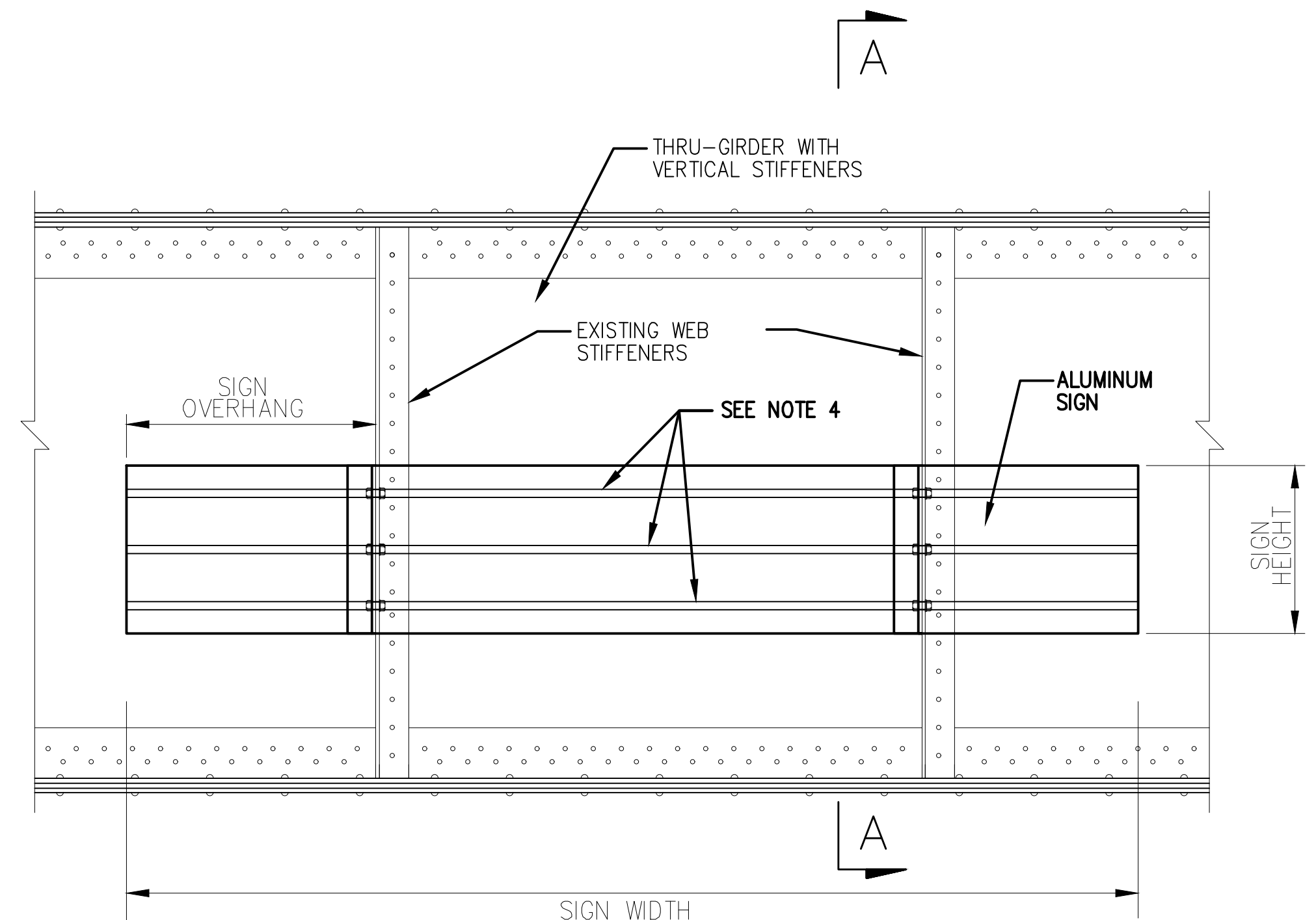
**PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING**

FILE NAME: PTS-980-21.dwg SHEET 21 OF 40  
 DRAWING TYPE: 5A

DATE: DECEMBER 2019 PTS-980



SECTION A-A  
NOT TO SCALE

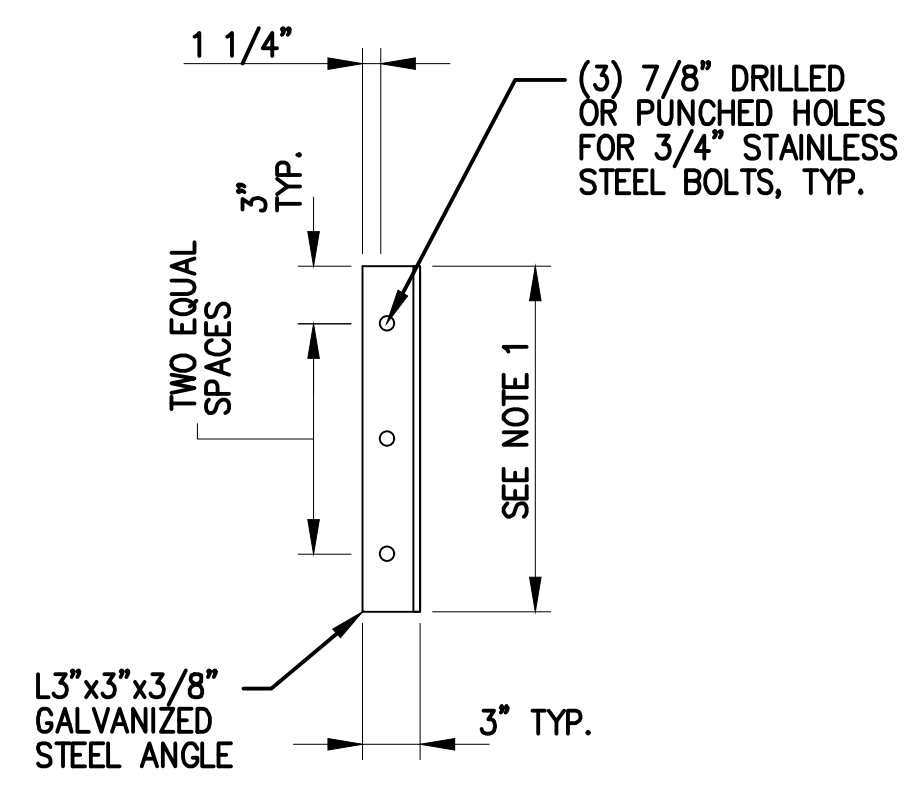


ELEVATION  
NOT TO SCALE

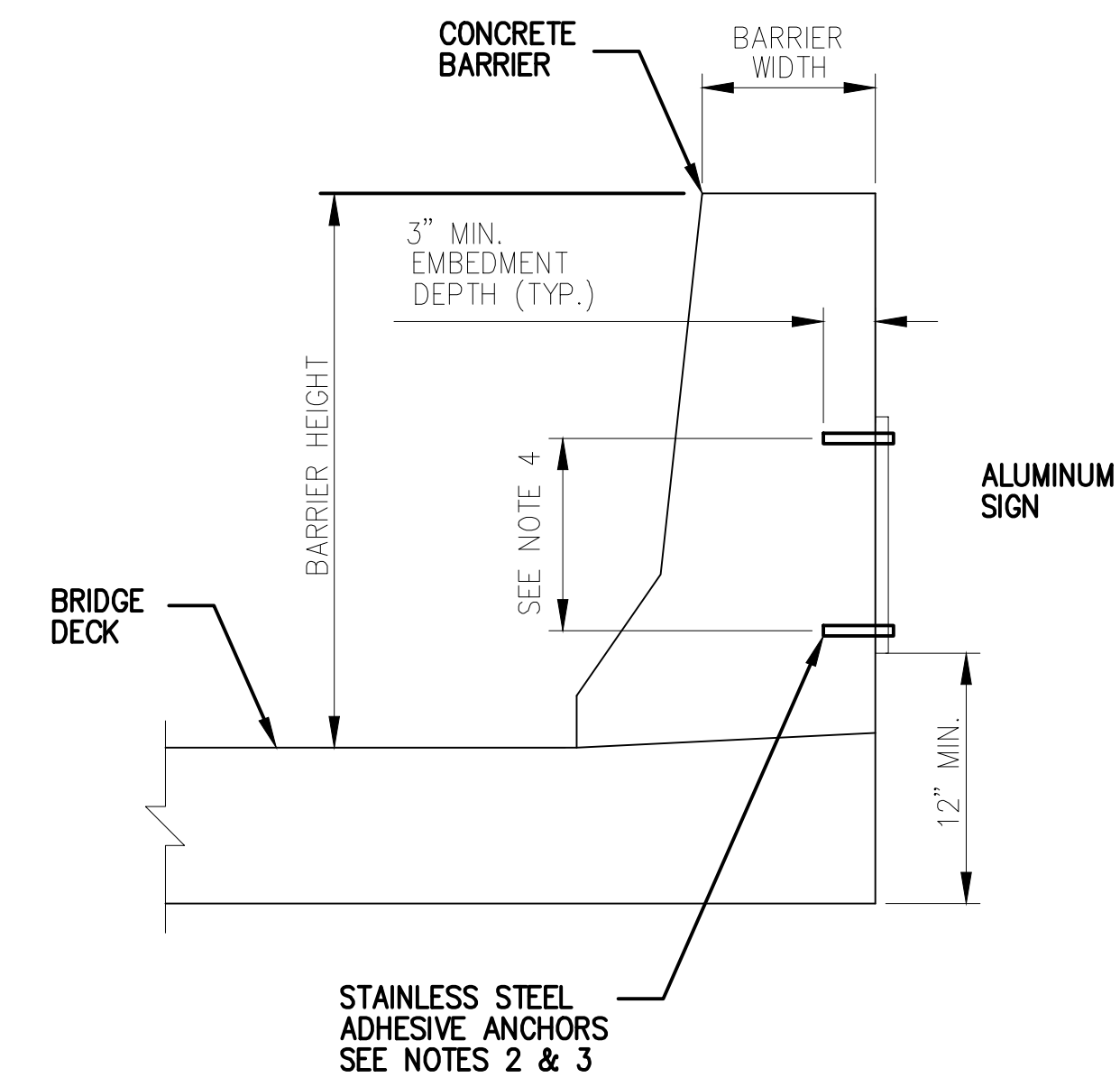
SIGN SUPPORT DETAIL  
FOR THRU-GIRDER

NOTES FOR THRU-GIRDER SIGN SUPPORT:

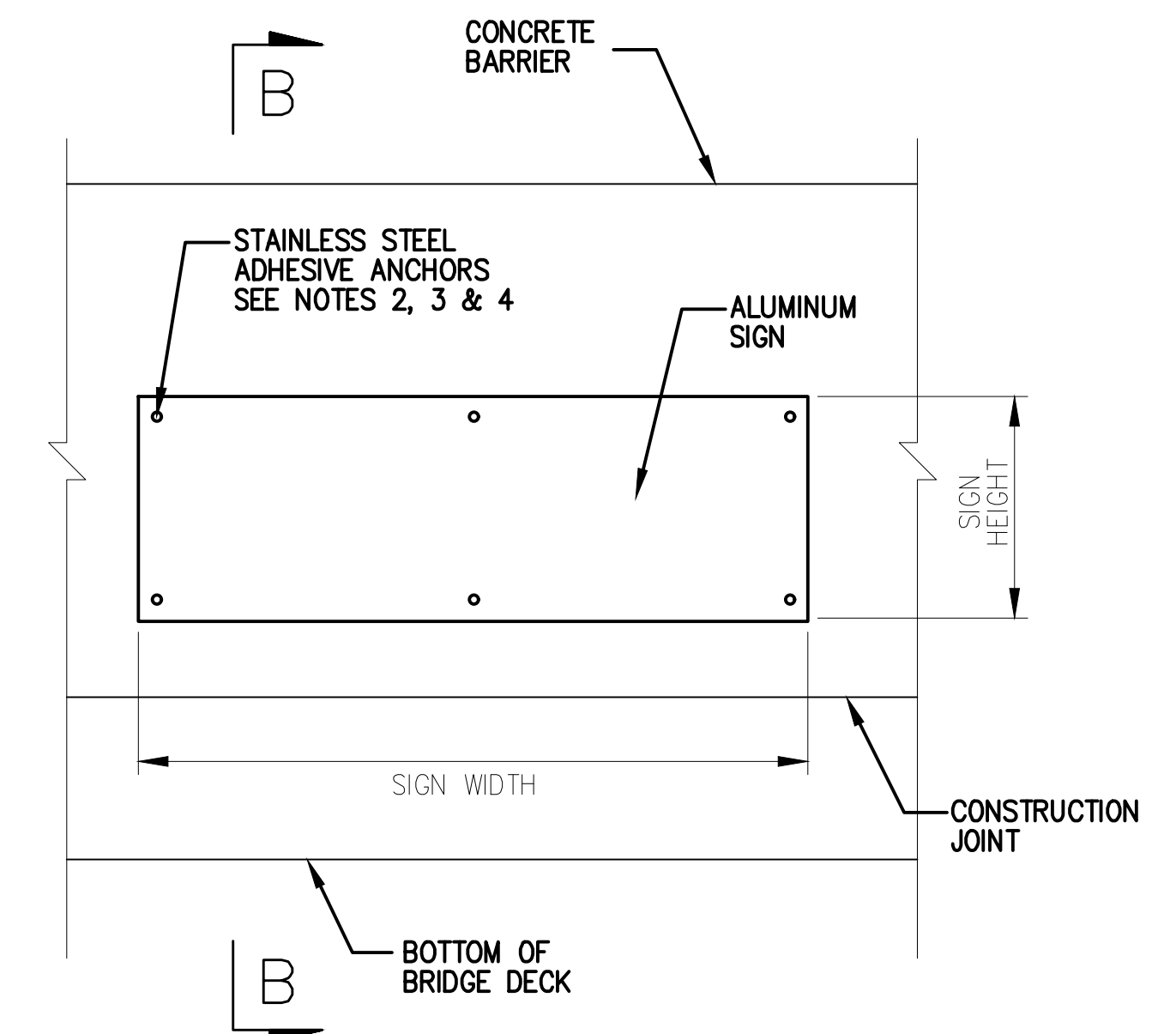
1. PROVIDE ONE GALVANIZED ANGLE BRACKET PER GIRDER STIFFENER. ANGLE LENGTH TO MATCH SIGN HEIGHT.
2. USE 3/4" DIA. ASTM F593 STAINLESS STEEL BOLT WITH CONNECTIONS AS PER SECTION 1105. BOLT LENGTHS WILL VARY DEPENDING ON THE EXISTING VERTICAL STIFFENER THICKNESS.
3. CENTER THE SIGN WITHIN THE VERTICAL STIFFENERS.
4. PROVIDE STIFFENERS AS REQUIRED PER PUBLICATION 111, (TC-8701S).
5. USE POST CLIPS TO MOUNT TO ANGLE BRACKET PER PUB. 111.
6. VERIFY ENTERING AND TIGHTENING CLEARANCES OF ALL CONNECTIONS PRIOR TO INSTALLATION.
7. PREPARE ALL BOLT HOLES, BOTH SHOP AND FIELD DRILLED OR PUNCHED HOLES, ACCORDING TO SECTION 1105.03 (C).
8. COAT EXPOSED METAL CAUSED BY FIELD DRILLING BOLT HOLES USING A ZINC RICH PRIMER, 3 COAT SYSTEM ACCORDING TO SECTION 1071.
9. MOUNT SIGN LEVEL TO GROUND.



ANGLE DETAIL  
NOT TO SCALE



SECTION B-B  
NOT TO SCALE

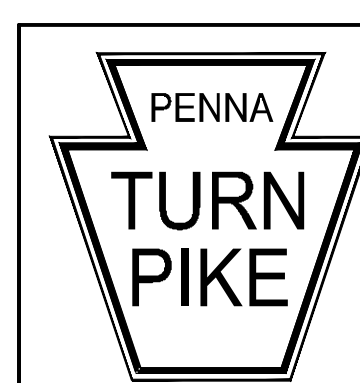


ELEVATION  
NOT TO SCALE

SIGN SUPPORT DETAIL  
FOR CONCRETE BARRIERS

NOTES FOR BARRIER SIGN SUPPORT:

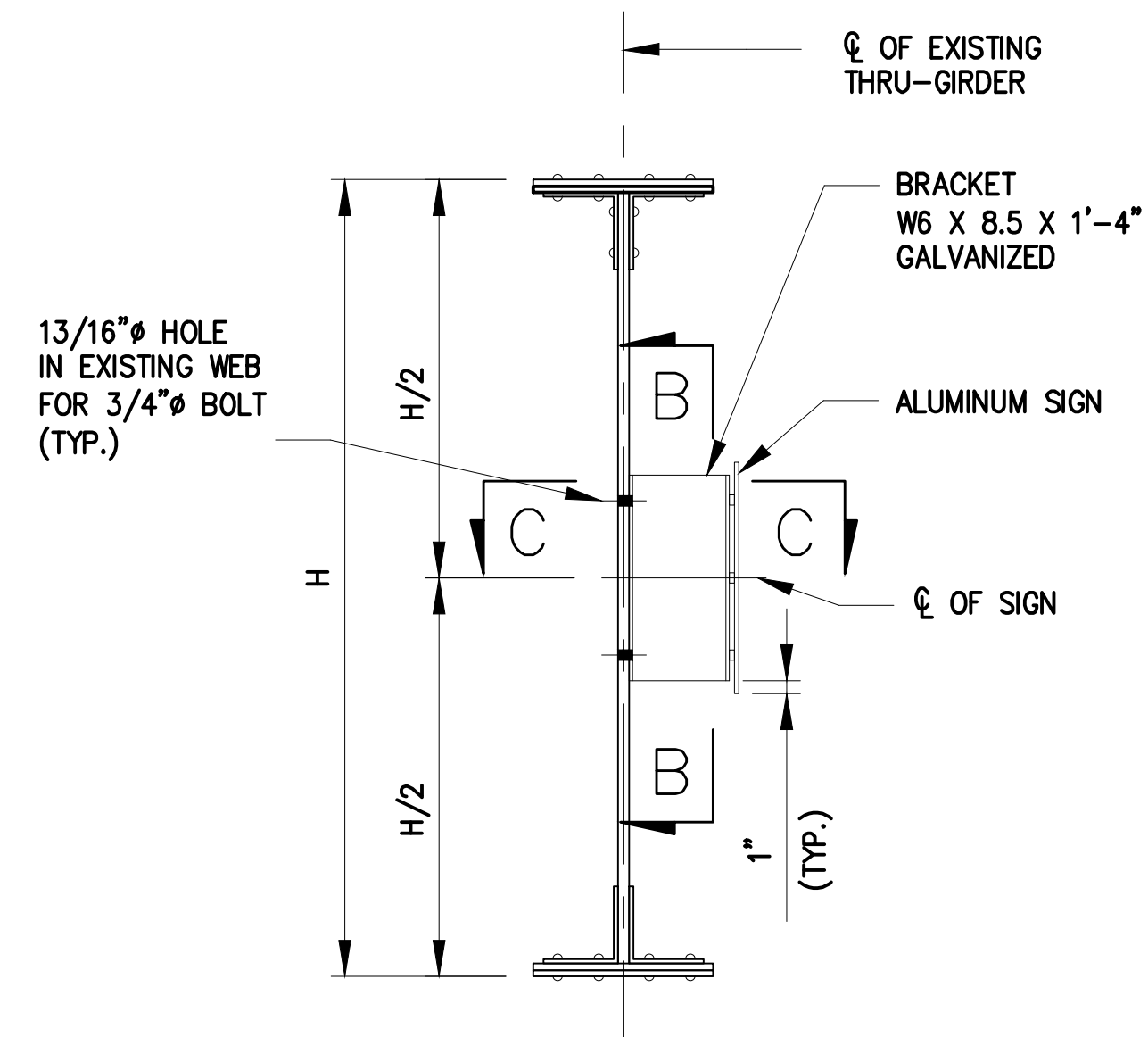
1. ATTACH STREET SIGN FLUSH TO CONCRETE BARRIER USING 1/2" DIA. STAINLESS STEEL ADHESIVE ANCHORS WITH A MINIMUM PULLOUT CAPACITY OF 2,000 PSI.
2. EMBEDMENT REQUIREMENTS FOR ADHESIVE ANCHORS VARY, CHECK MANUFACTURER SPECIFICATIONS TO ENSURE MINIMUM PULLOUT STRENGTH WILL BE SATISFIED PRIOR TO INSTALLATION. PROVIDE 3" MIN. EMBEDMENT DEPTH.
3. HORIZONTAL MAXIMUM SPACING BETWEEN ADHESIVE ANCHORS TO BE 18" CENTER TO CENTER.
4. VERTICAL MAXIMUM SPACING BETWEEN ADHESIVE ANCHORS TO BE 18" CENTER TO CENTER. VERTICAL ADHESIVE ANCHORS AT EACH END OF SIGN ONLY.
5. BRIDGE BARRIER DIMENSIONS VARY, VERIFY PROPER CONCRETE COVER AND CLEARANCES ARE PROVIDED FOR ANCHORAGE.
6. MOUNT SIGN LEVEL TO GROUND.



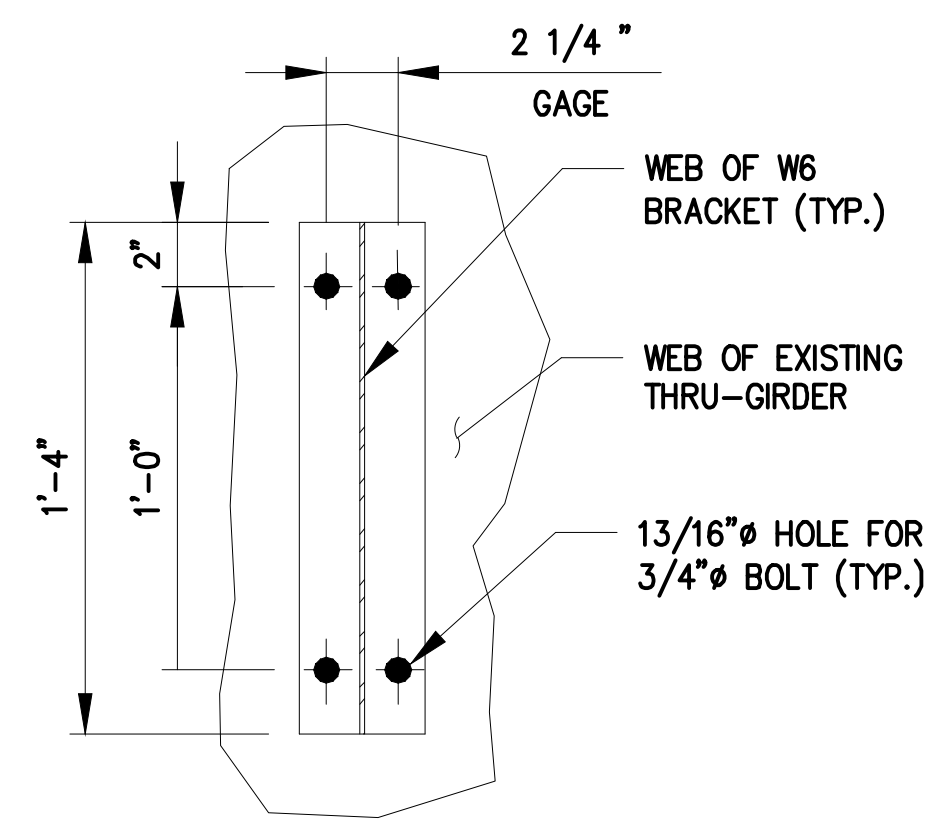
RECOMMENDED: DECEMBER 31, 2019  
*Gayle S. [Signature]*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

CONSTRUCTION  
 MAINTENANCE AND PROTECTION OF TRAFFIC  
 THRU-GIRDER & BARRIER  
 SIGN SUPPORT DETAILS

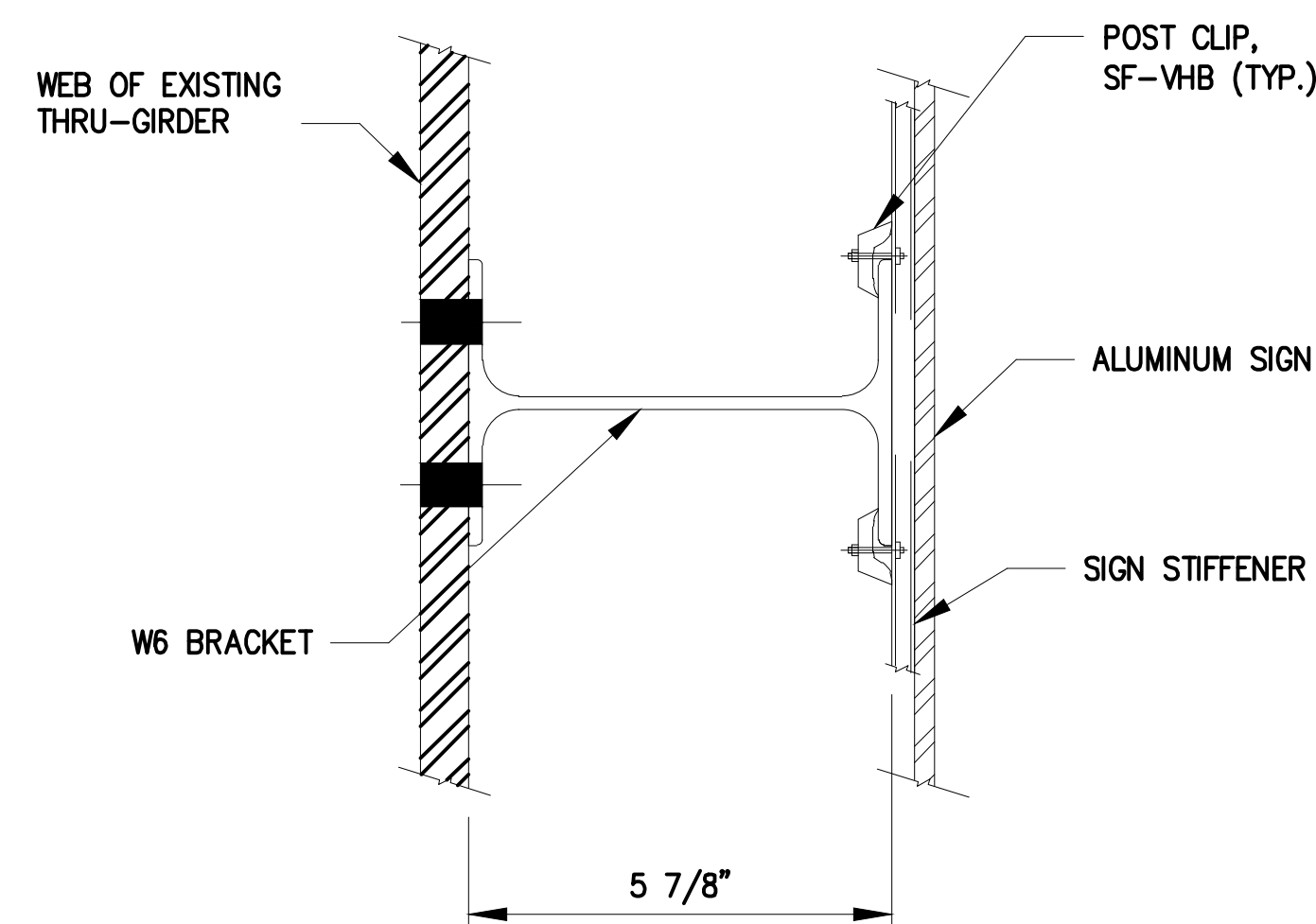
PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING  
 FILE NAME: PTS-980-22.dwg  
 DRAWING TYPE: 5A  
 SHEET 22 OF 40  
 DATE: DECEMBER 2019  
 PTS-980



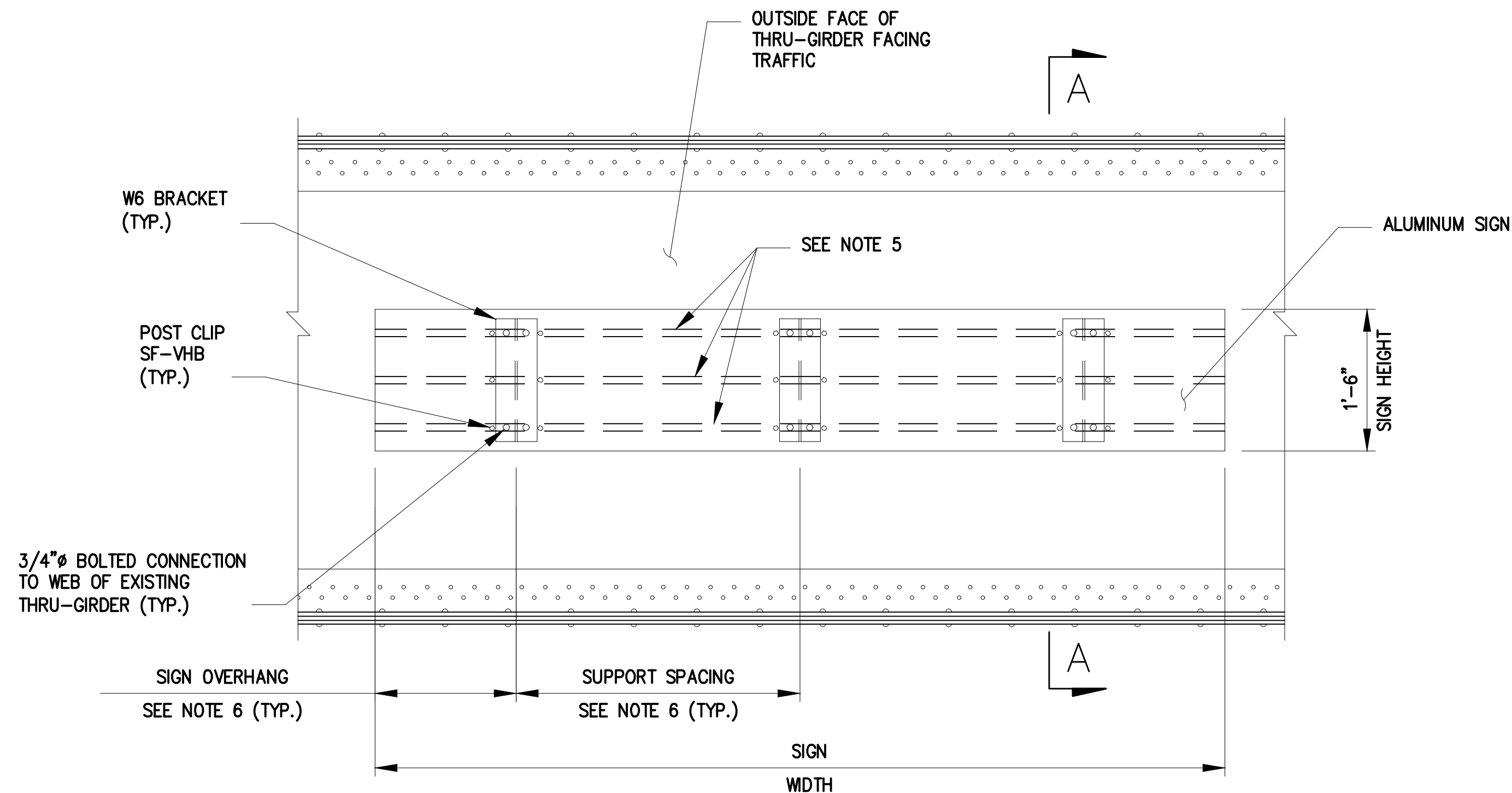
SECTION A-A  
NOT TO SCALE



SECTION B-B  
NOT TO SCALE



SECTION C-C  
NOT TO SCALE

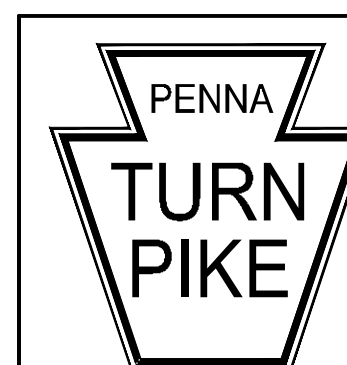


ELEVATION  
NOT TO SCALE

SIGN SUPPORT DETAIL  
FOR THRU-GIRDER

NOTES FOR THRU-GIRDER SIGN SUPPORT:

1. PROVIDE ASTM A36 STEEL GALVANIZED BRACKETS AS SHOWN TO MATCH HEIGHT OF SIGN.
2. USE 3/4" DIAMETER ASTM A325 HIGH STRENGTH GALVANIZED BOLT WITH CONNECTIONS IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 1105. BOLT LENGTHS VARY DEPENDING ON THE THICKNESS OF THE EXISTING GIRDER WEB.
3. PREPARE ALL BOLT HOLES, BOTH SHOP AND FIELD DRILLED OR PUNCHED HOLES IN ACCORDANCE WITH PENNDOT PUBLICATION 408, SECTION 1105.03(C) & (D).
4. PAINT ALL STEEL EXPOSED DURING FIELD DRILLING OR PUNCHING OF HOLES IN ACCORDANCE WITH PENNDOT PUBLICATION 1071.
5. PROVIDE SIGN STIFFENERS AS REQUIRED IN ACCORDANCE WITH PENNDOT PUBLICATION 111, TC-8701S.
6. PROVIDE A MINIMUM OF TWO (2) W6 BRACKET (VERTICAL) SUPPORTS AT SPACING (OR SPACINGS) AND OVERHANGS IN ACCORDANCE WITH PENNDOT PUBLICATION 111, TC-8701S, GENERAL NOTE NO. 3.
7. USE POST CLIPS (SF-VHB) TO MOUNT SIGN TO BRACKETS IN ACCORDANCE WITH PENNDOT PUBLICATION 111, TC-8701S.
8. MOUNT SIGN LEVEL WITH GROUND LINE.
9. VERIFY ENTERING AND TIGHTENING CLEARANCES OF ALL CONNECTIONS PRIOR TO INSTALLATION.



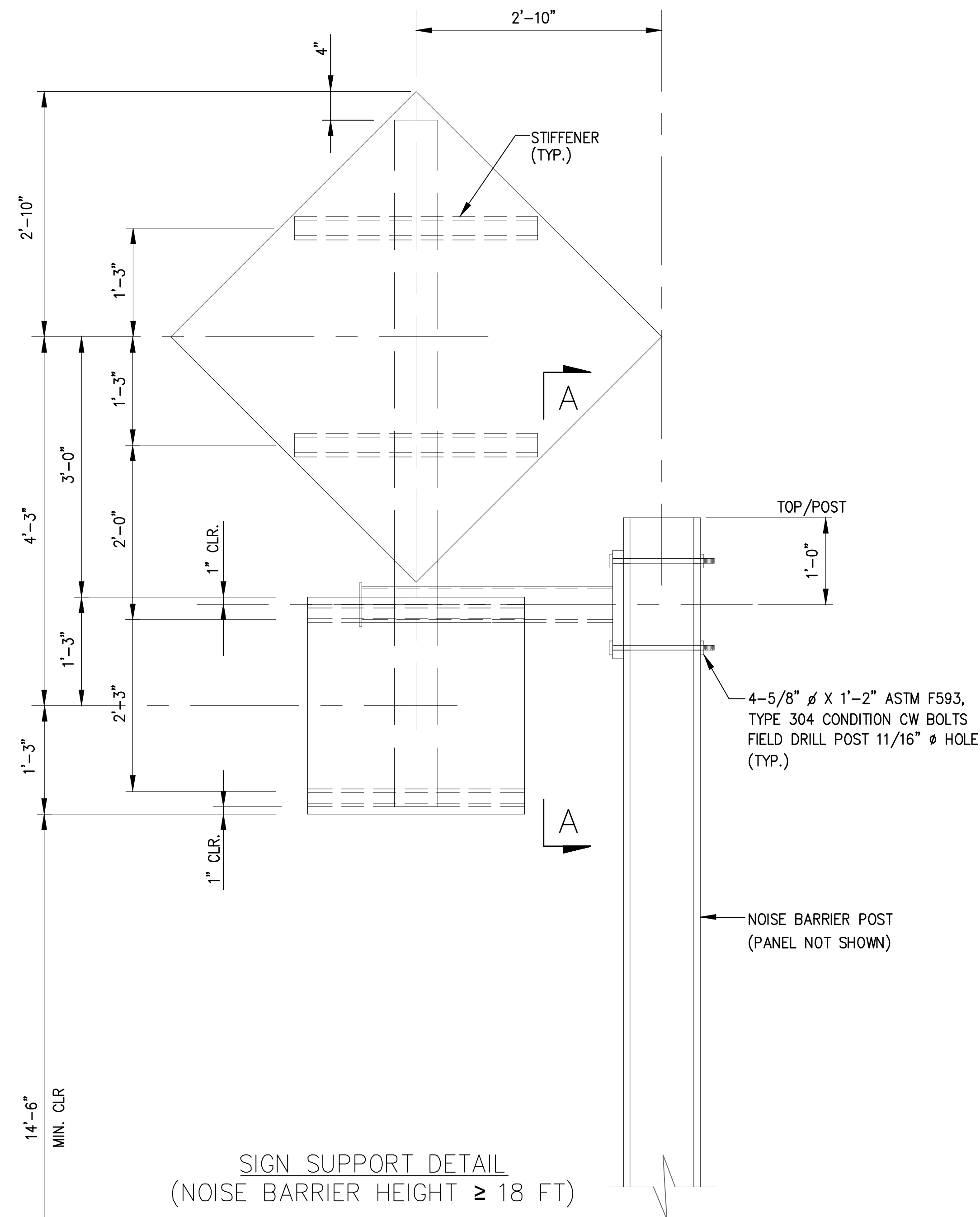
RECOMMENDED: DECEMBER 31, 2019  
*Gayle S. Johnson*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

**CONSTRUCTION  
 MAINTENANCE AND PROTECTION OF TRAFFIC  
 THRU-GIRDER  
 SIGN SUPPORT DETAILS FOR GIRDER WEB**

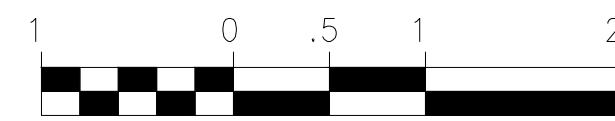
**PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING**

FILE NAME: PTS-980-23.dwg  
 DRAWING TYPE: 5A  
 SHEET 23 OF 40

DATE: DECEMBER 2019  
 PTS-980



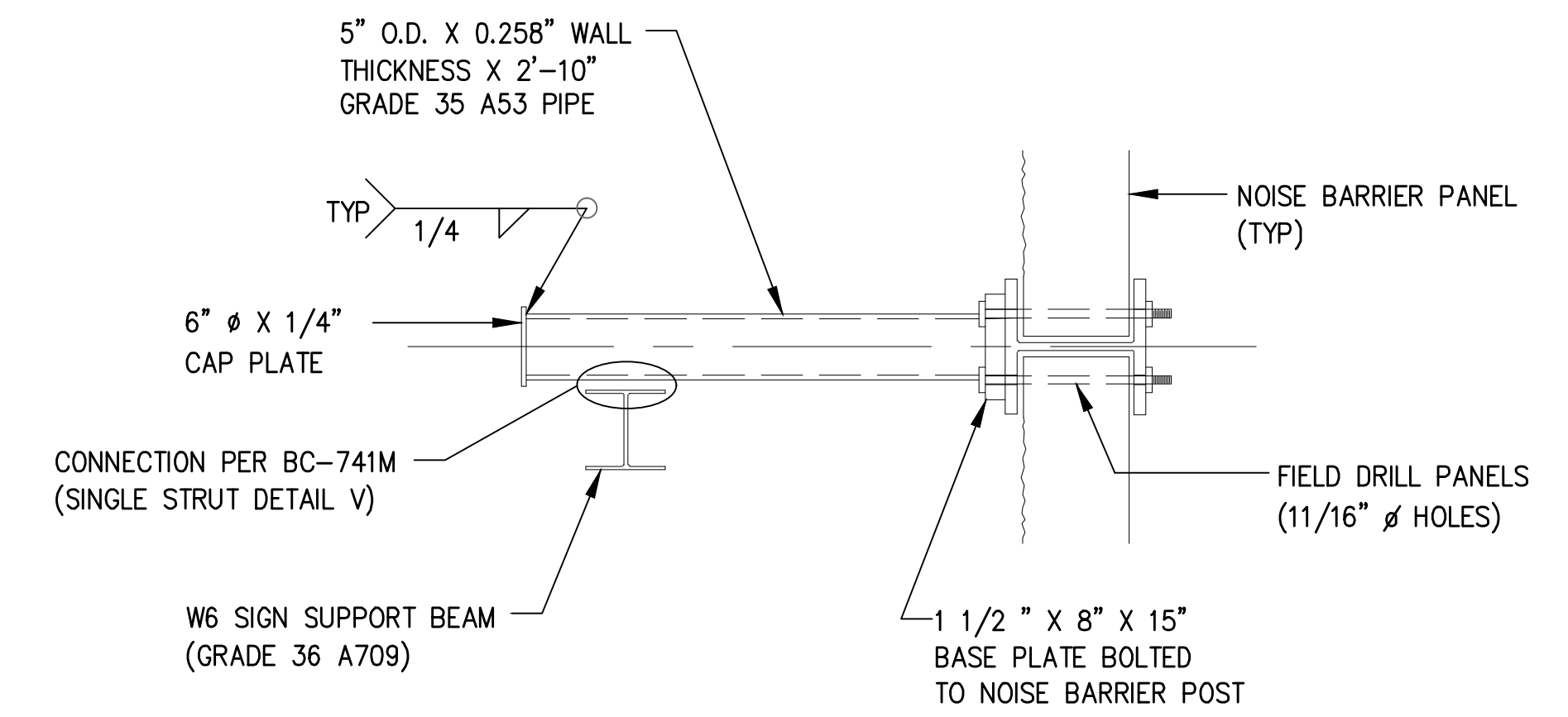
SIGN SUPPORT DETAIL  
(NOISE BARRIER HEIGHT ≥ 18 FT)



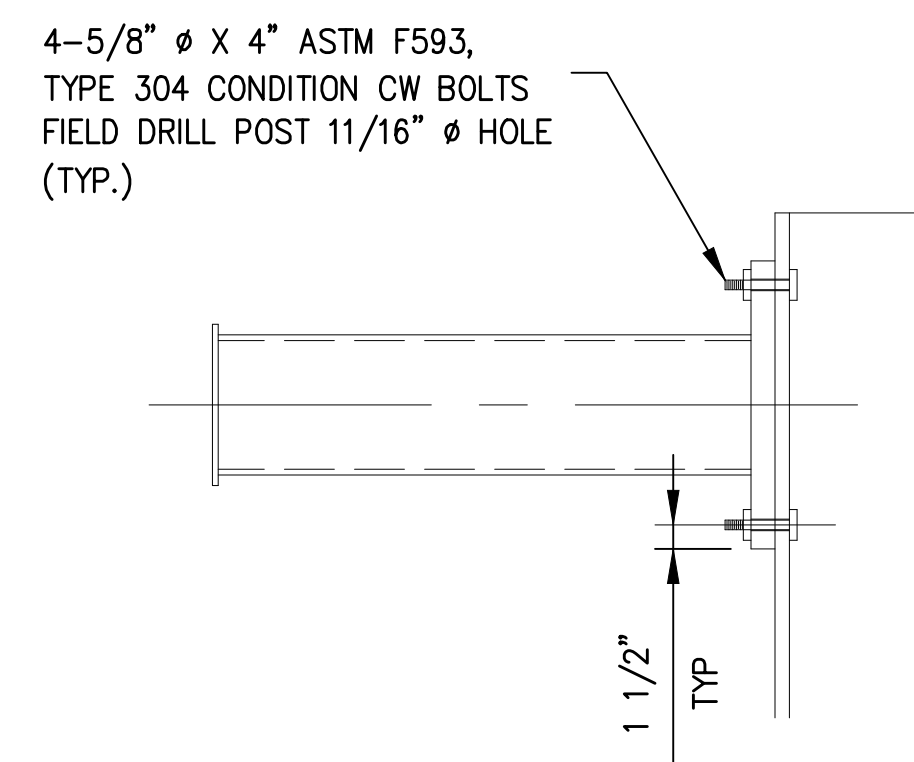
NOTES:

- DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS, FIFTH EDITION, 2009.
- PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270, GRADE 36 (ASTM A709, GRADE 36) UNLESS NOTED OTHERWISE.
- PROVIDE BOLT HOLES 1/16" LARGER THAN BOLT DIAMETER.
- SEE BC-741M FOR SIGN SUPPORT BEAM SIZE.
- ALL BOLTS TO BE ASTM F593, GROUP 1, CONDITION CW STAINLESS STEEL BOLTS.

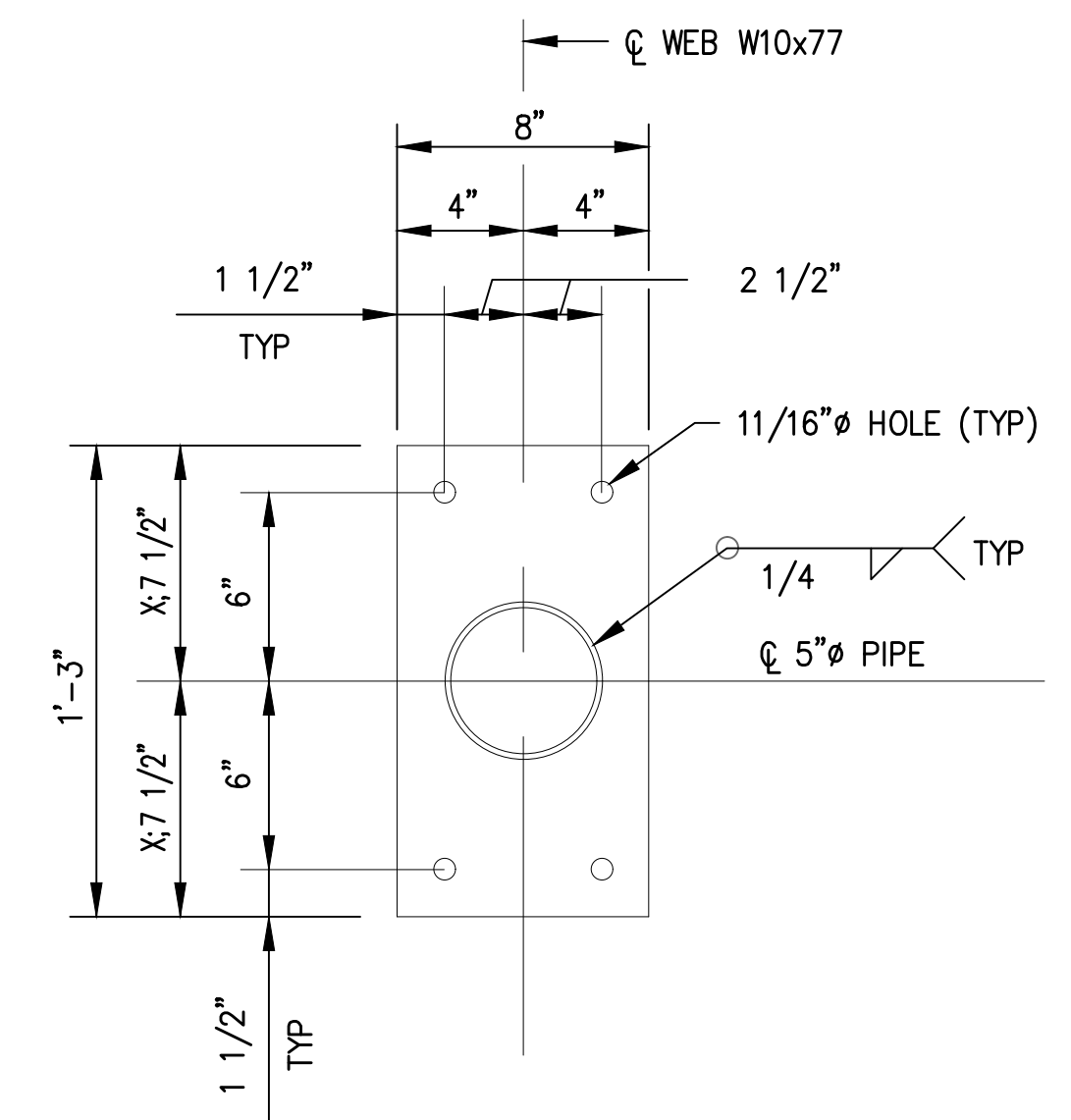
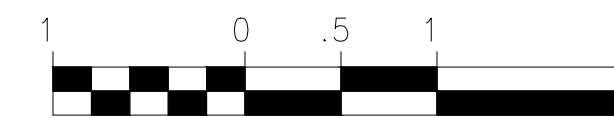
EDGE/ROAD



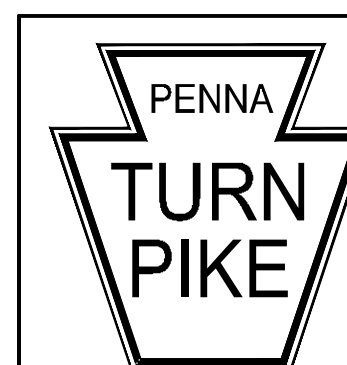
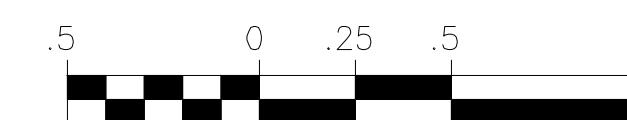
PLAN



ALTERNATE BOLT ATTACHMENT



VIEW A-A

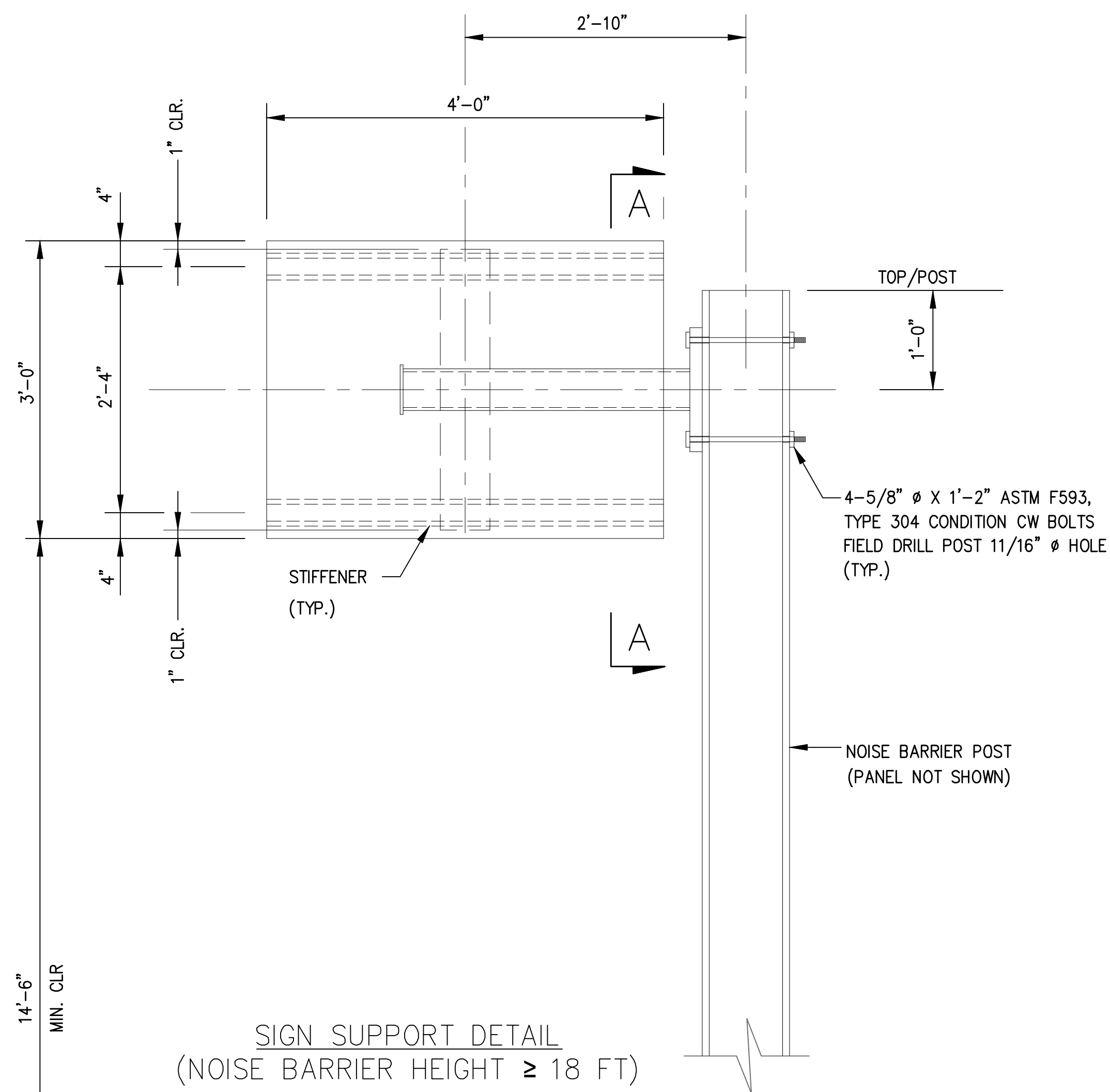


RECOMMENDED: DECEMBER 31, 2019  
*Gary L. Gilman*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

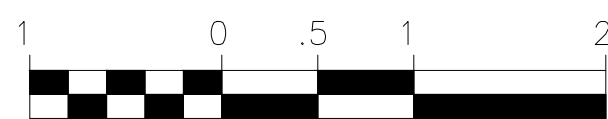
CONSTRUCTION  
 MAINTENANCE AND PROTECTION OF TRAFFIC  
 NOISE BARRIER PANEL  
 2 SIGN OVERHEAD CANTILEVER

PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING  
 FILE NAME: PTS-980-24.dwg  
 DRAWING TYPE: 5A  
 SHEET 24 OF 40  
 DATE: DECEMBER 2019  
 PTS-980





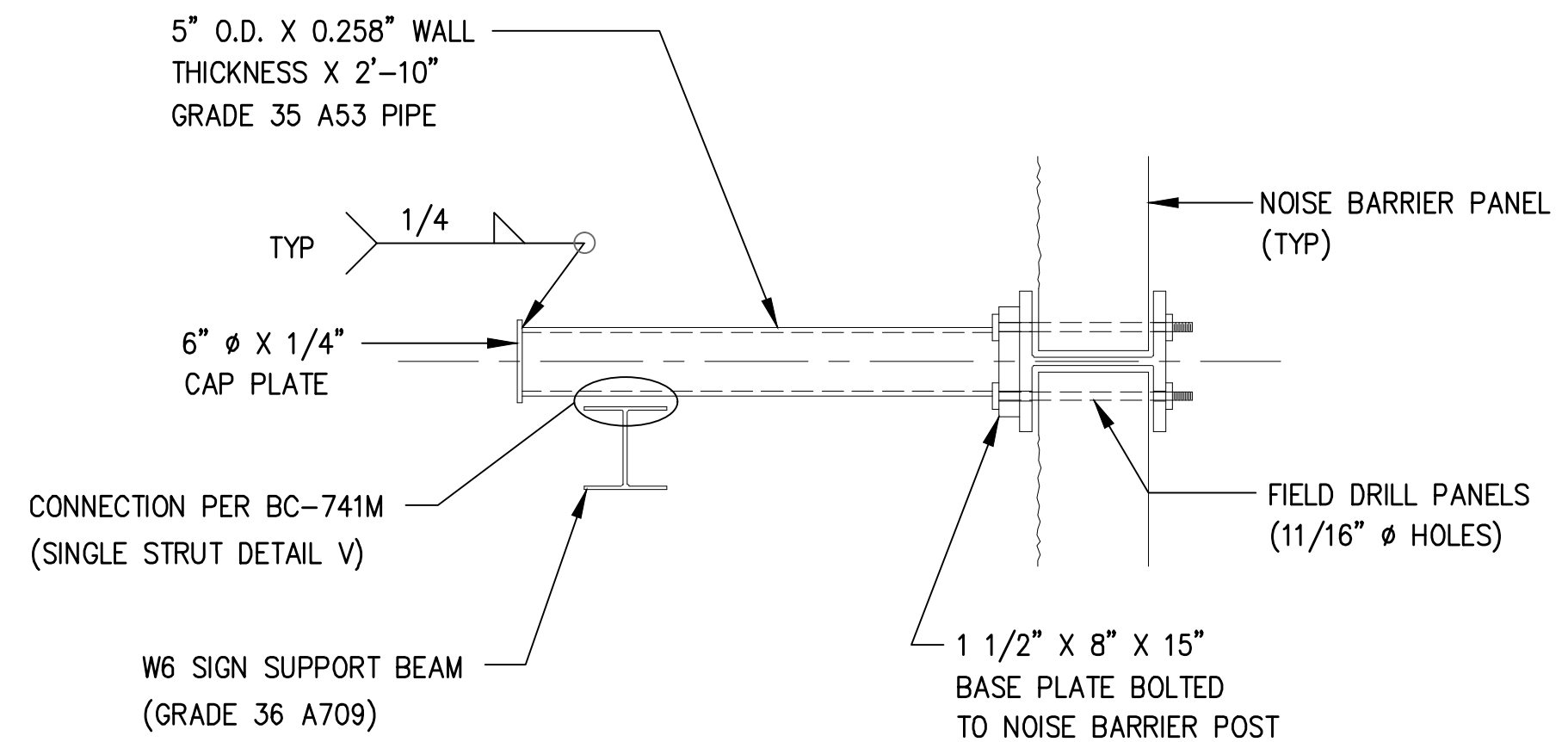
SIGN SUPPORT DETAIL  
(NOISE BARRIER HEIGHT ≥ 18 FT)



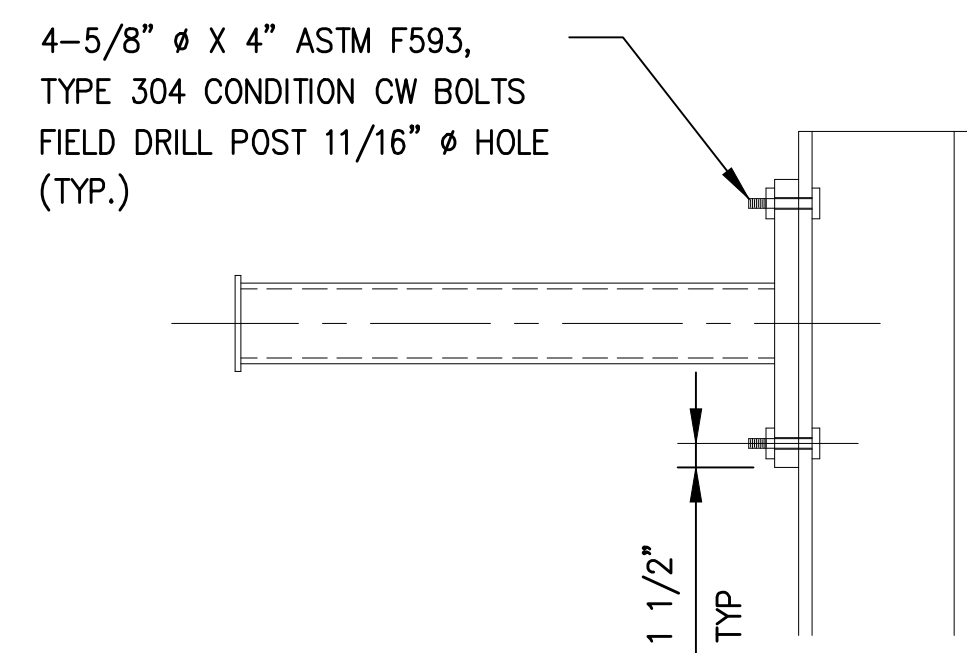
NOTES:

- DESIGN SPECIFICATIONS: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS, FIFTH EDITION, 2009.
- PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270, GRADE 36 (ASTM A709, GRADE 36) UNLESS NOTED OTHERWISE.
- PROVIDE BOLT HOLES 1/16" LARGER THAN BOLT DIAMETER.
- SEE BC-741M FOR SIGN SUPPORT BEAM SIZE.
- ALL BOLTS TO BE ASTM F593, GROUP 1, CONDITION CW STAINLESS STEEL BOLTS.

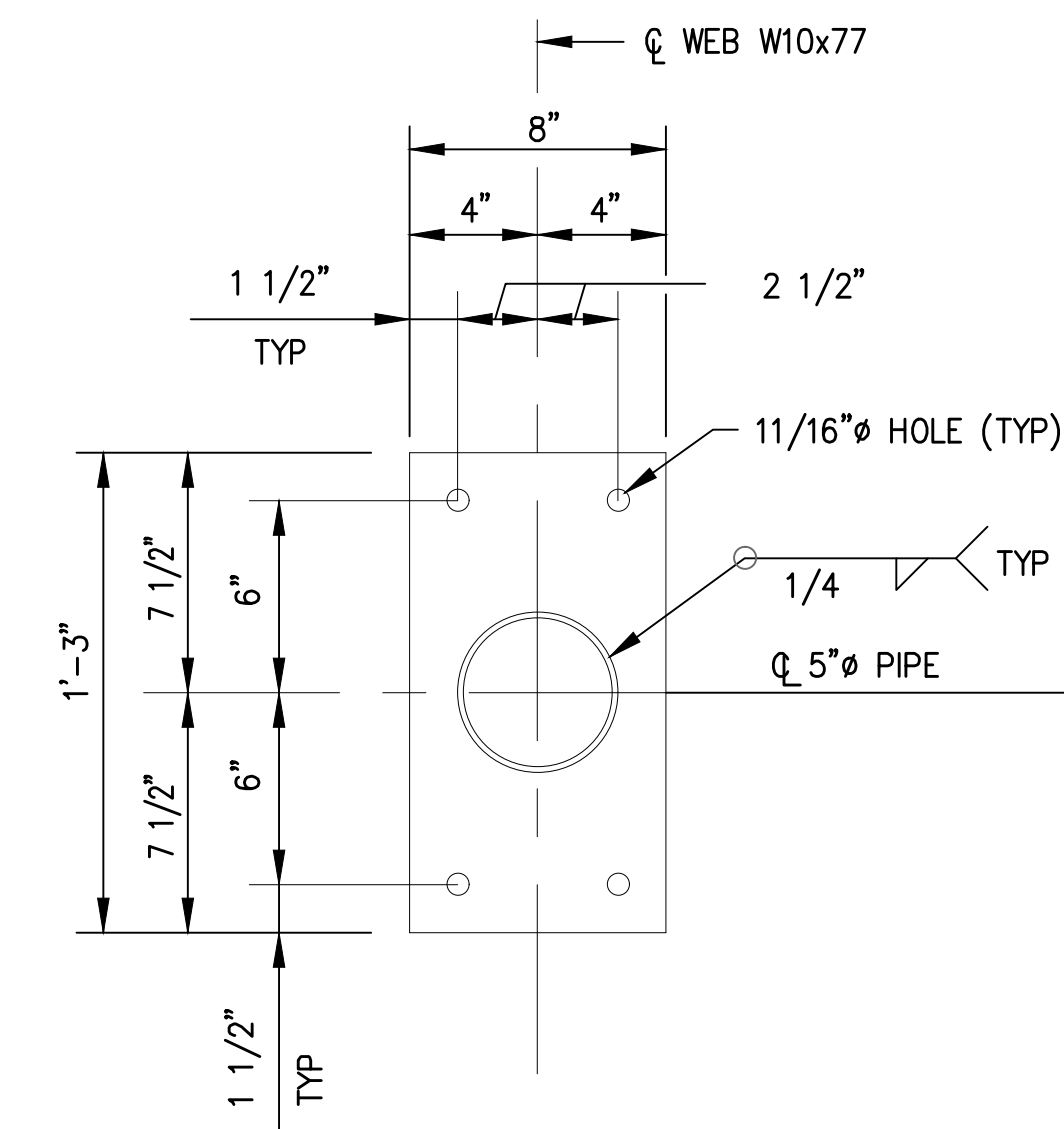
EDGE/ROAD



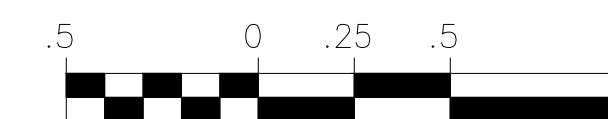
PLAN



ALTERNATE BOLT ATTACHMENT



VIEW A-A



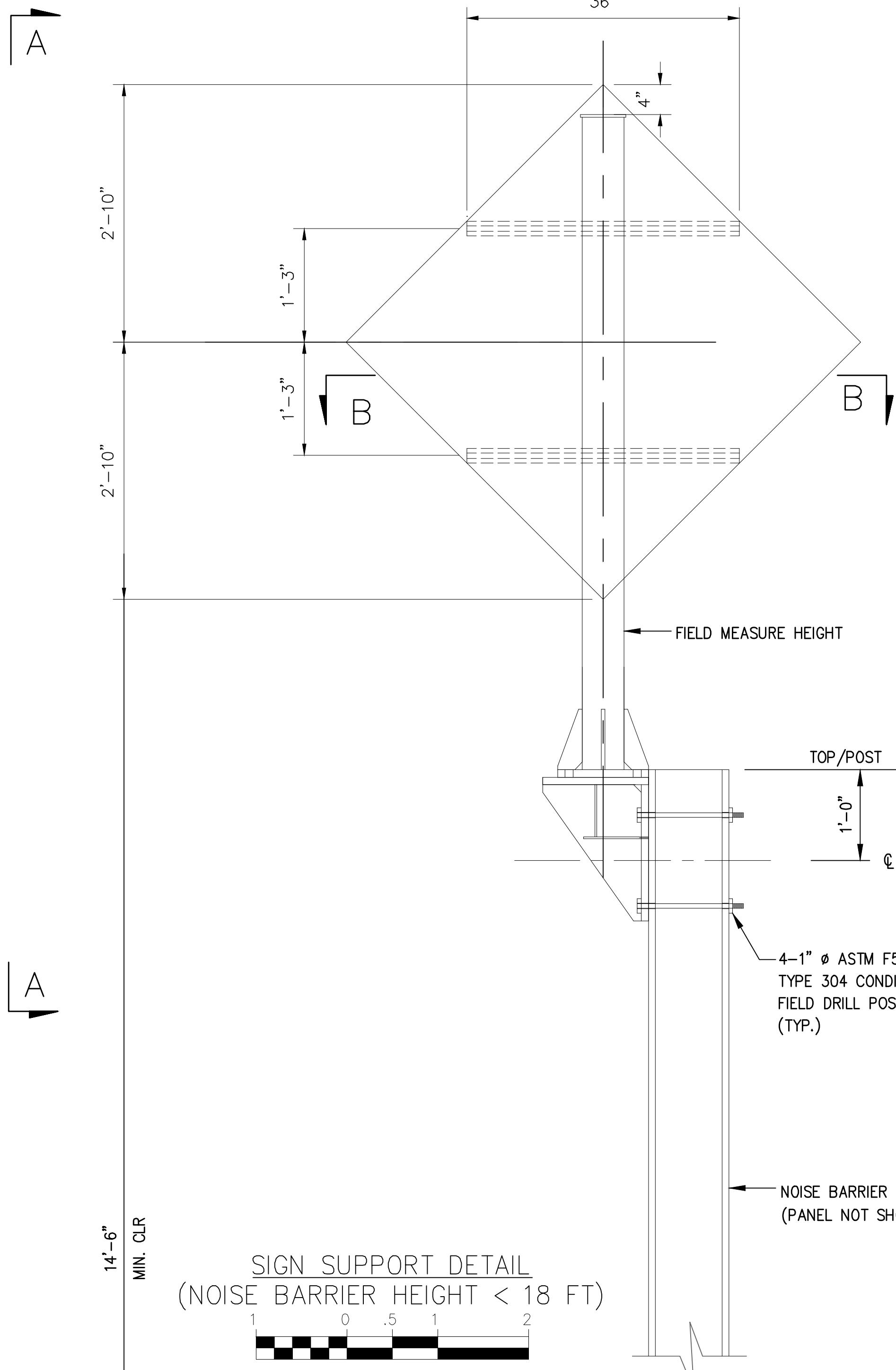
RECOMMENDED: DECEMBER 31, 2019  
*Gayle S. Smith*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

CONSTRUCTION  
 MAINTENANCE AND PROTECTION OF TRAFFIC  
 NOISE BARRIER PANEL  
 POST MOUNTED SIGNS, TYPE D MODIFIED

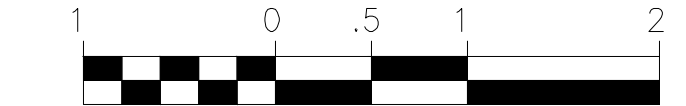
PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING

FILE NAME: PTS-980-25.dwg  
 DRAWING TYPE: 5A  
 SHEET 25 OF 40

DATE: DECEMBER 2019  
 PTS-980

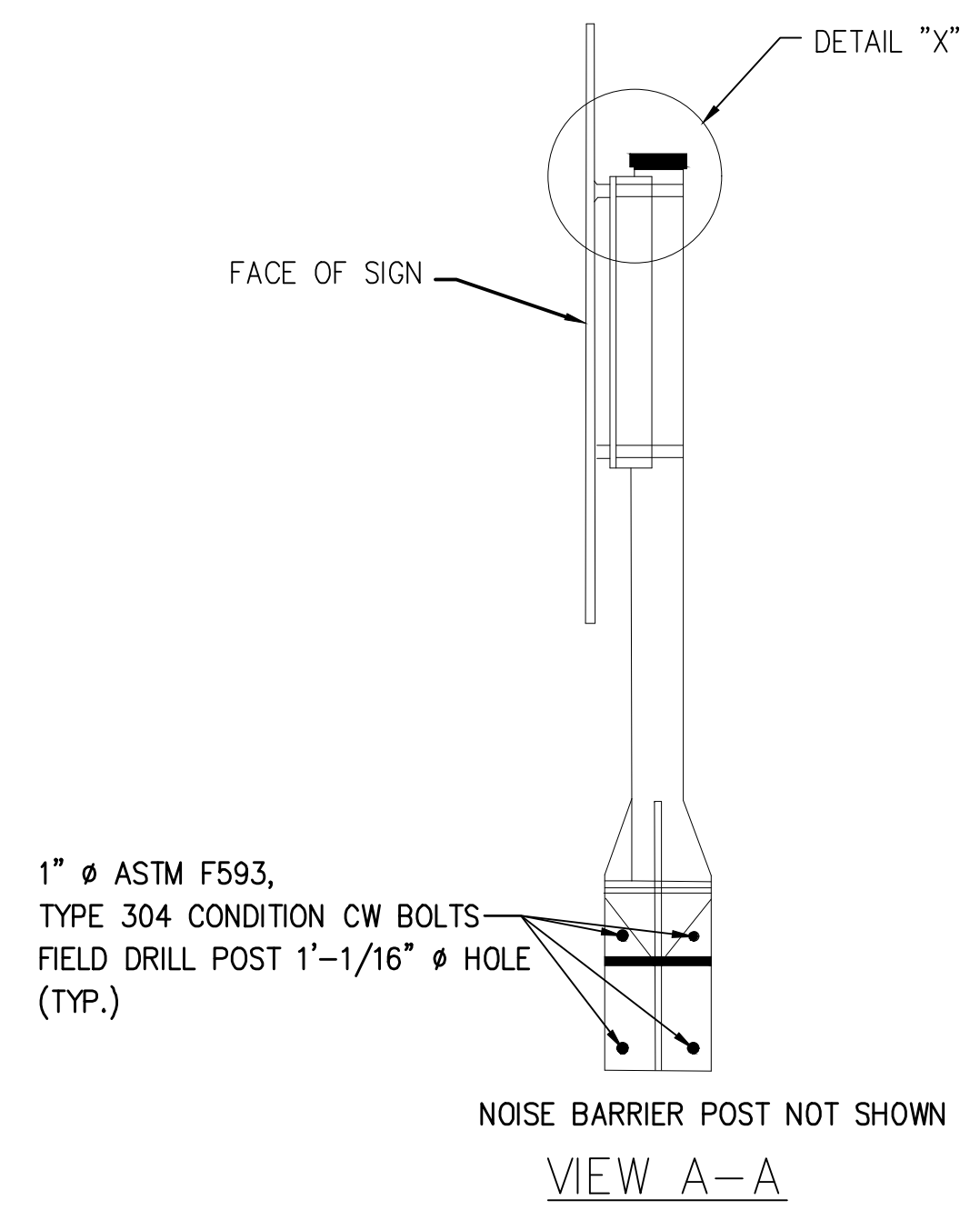


**SIGN SUPPORT DETAIL**  
(NOISE BARRIER HEIGHT < 18 FT)

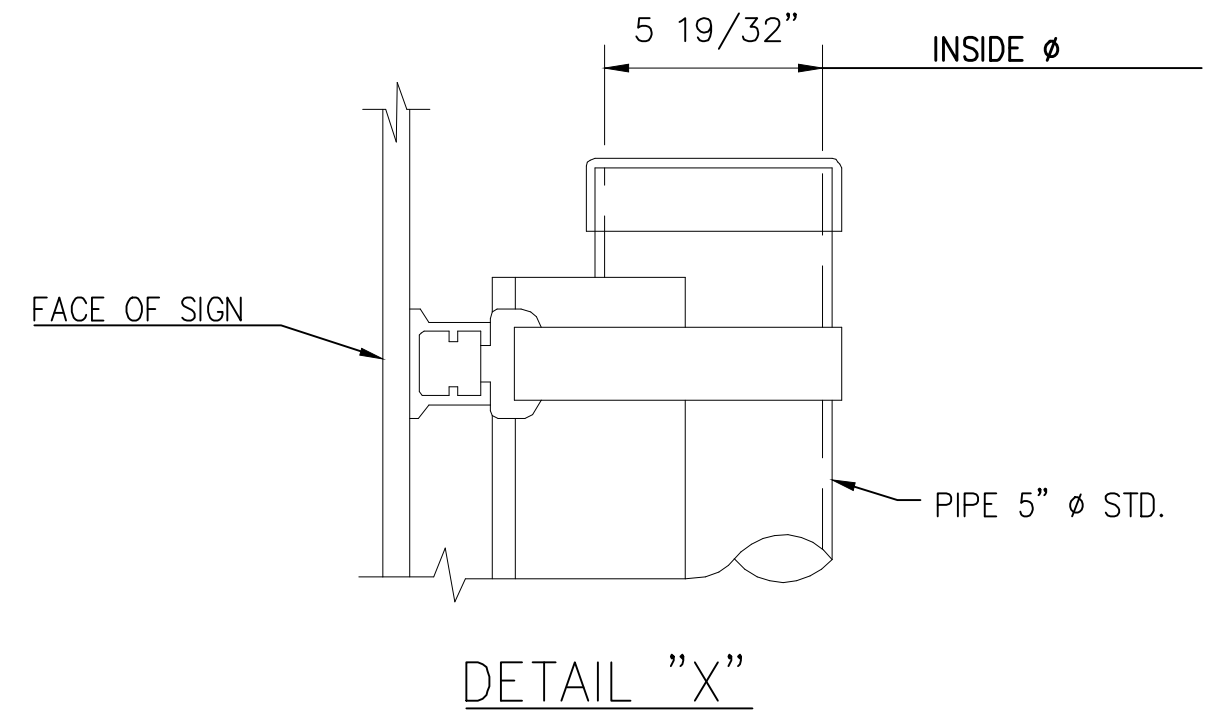


**NOTES:**

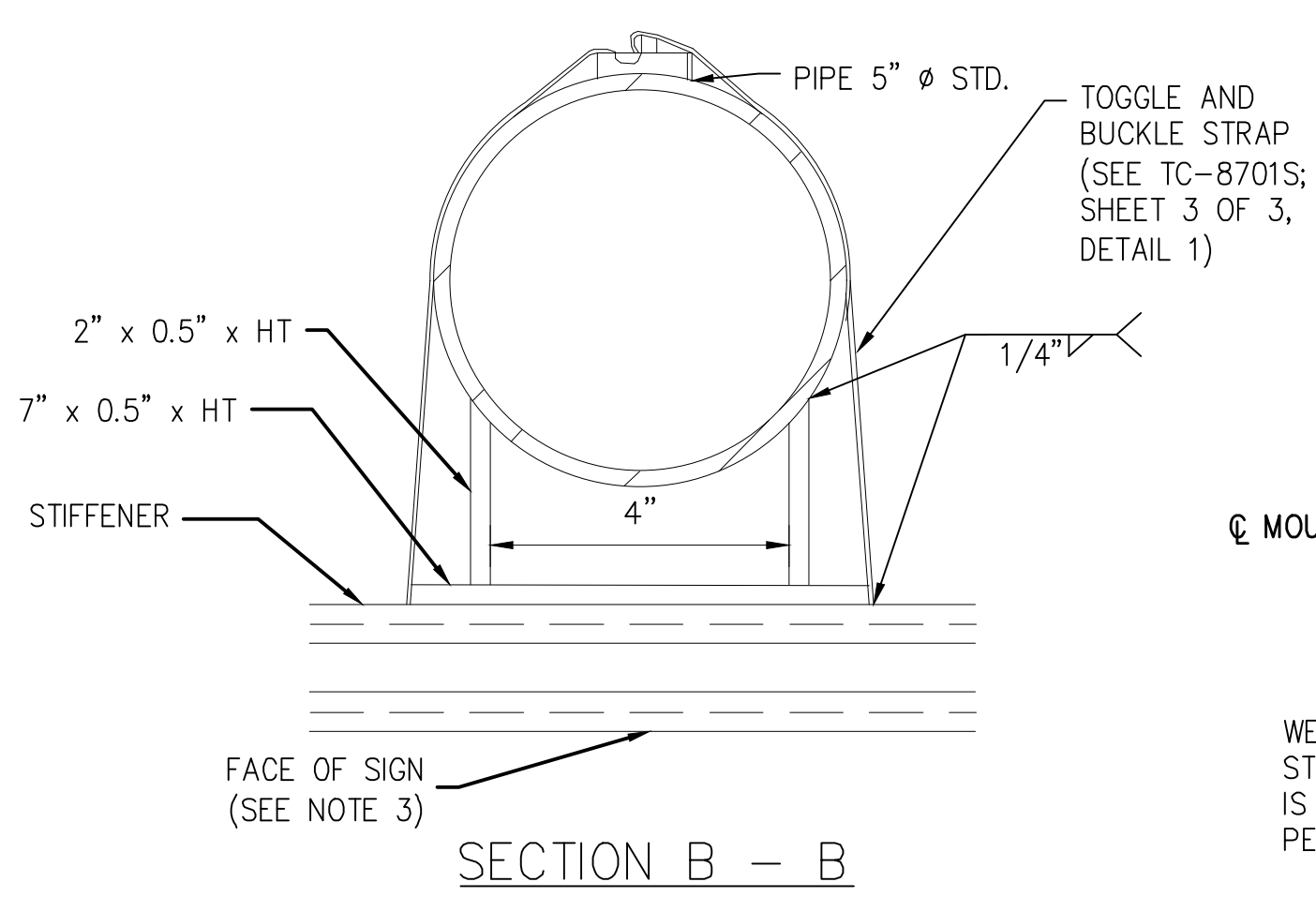
1. MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE PENNSYLVANIA TURNPIKE COMMISSION CONSTRUCTION SPECIFICATIONS AND PENNSYLVANIA DEPARTMENT OF TRANSPORTATION PUBLICATION 408, UNLESS OTHERWISE NOTED.
2. ALL STEEL SHALL BE GALVANIZED IN ACCORDANCE WITH PUBLICATION 408.
3. THE STIFFENERS AND STIFFENER HARDWARE SHALL CONFORM TO SECTION 1103.03(d) AND TO STANDARD DRAWINGS TC-8701S. THE RIVETS USED TO FASTEN THE FLAT SHEET ALUMINUM TO THE STIFFENER SHALL CONFORM TO SECTION 1103.01(g) AND SHALL BE SPACED AS INDICATED IN SECTION 1103.03(e).
4. STEEL PIPE SUPPORTS TO BE ASTM A 53, UNLESS OTHERWISE NOTED. ALL OTHER STRUCTURE STEEL TO BE AASHTO M 270 (ASTM A 709) GRADE 250, UNLESS OTHERWISE NOTED. ALL BOLTS TO BE AASHTO M 164, TYPE 1, UNLESS OTHERWISE NOTED.
5. DESIGN SPECIFICATION: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, FIFTH EDITION, 2009.



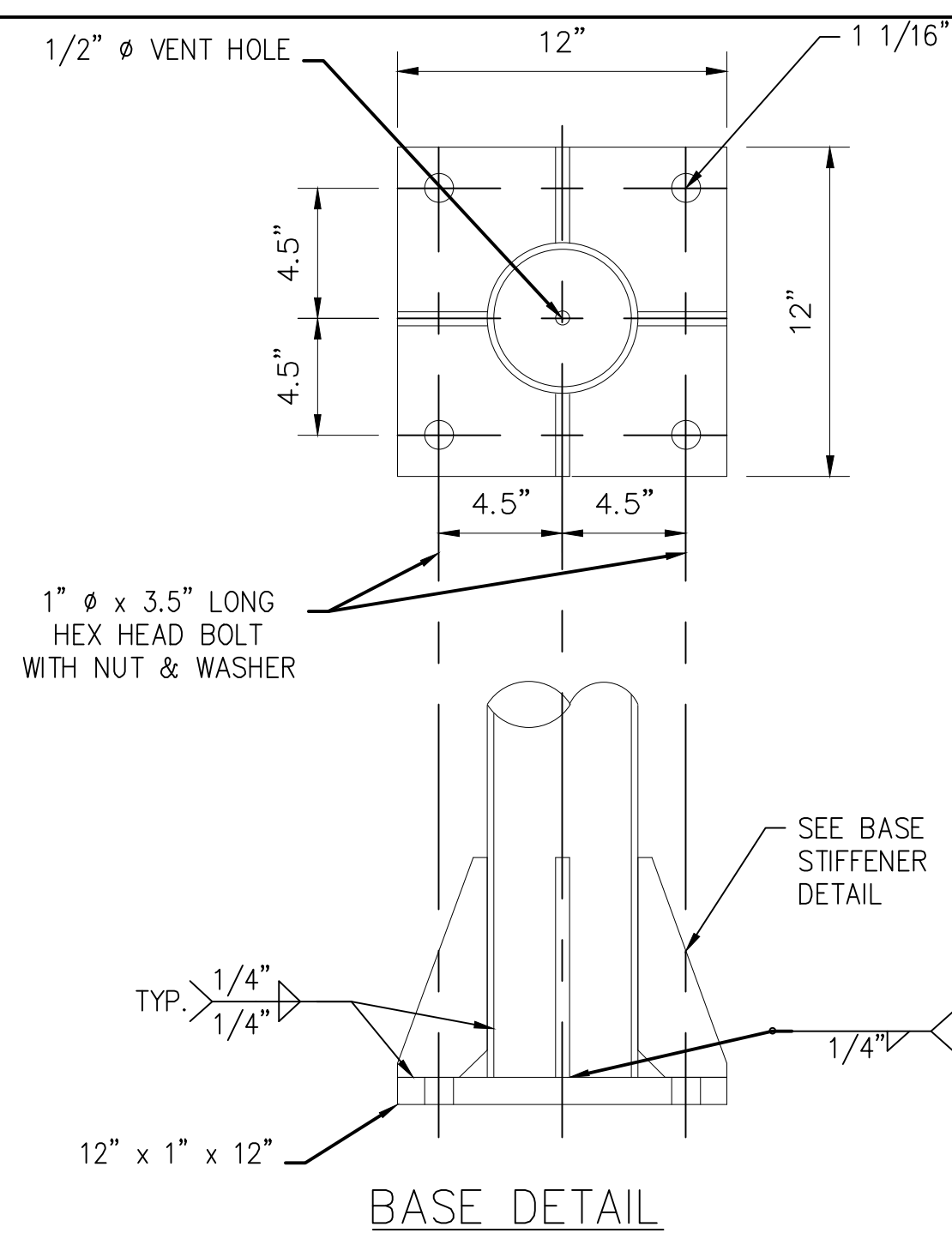
**VIEW A-A**



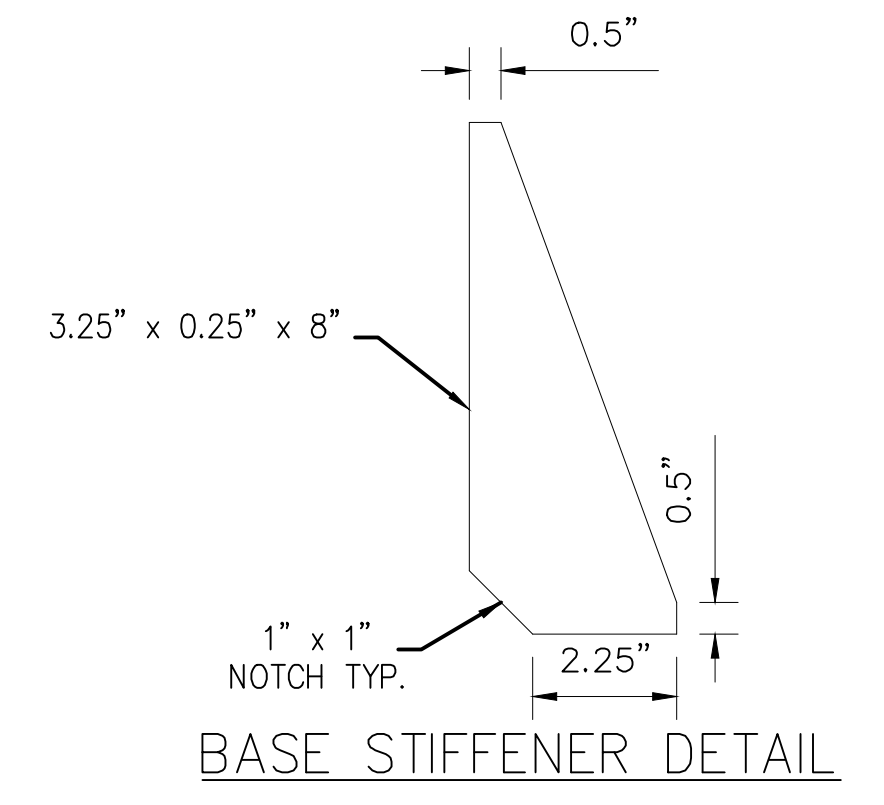
**DETAIL "X"**



**SECTION B - B**

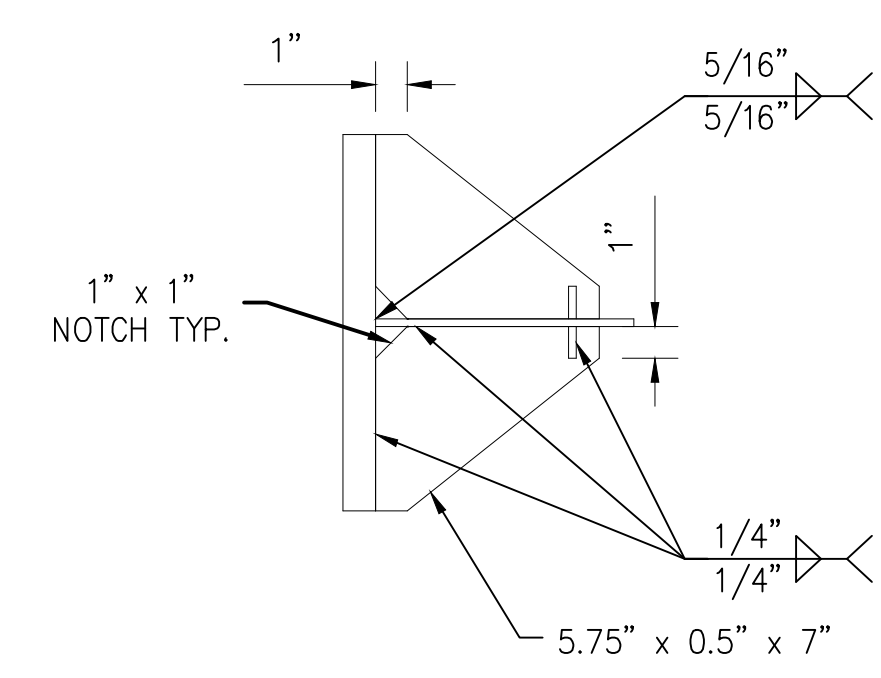


**BASE DETAIL**

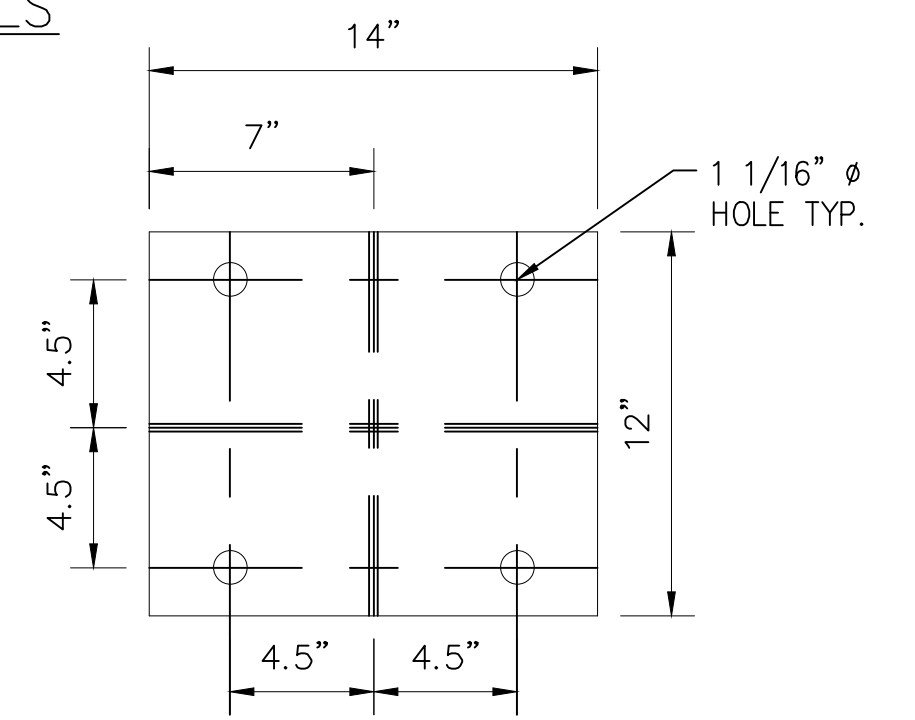


**BASE STIFFENER DETAIL**

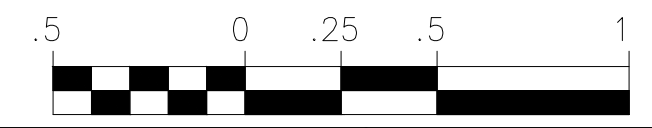
**PIPE BASE DETAILS**



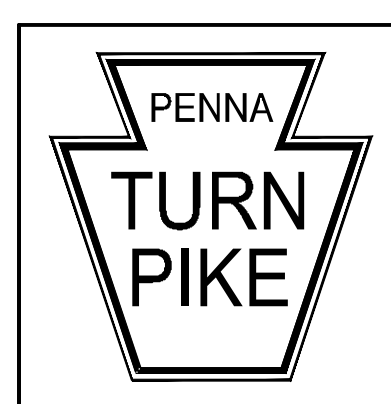
**SECTION C - C**



**MOUNTING BRACKET DETAILS**



WEIGHT OF FABRICATED STRUCTURAL STEEL IS 127 LBS. PER MOUNTING BRACKET

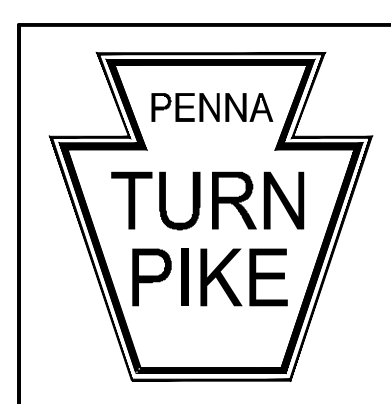
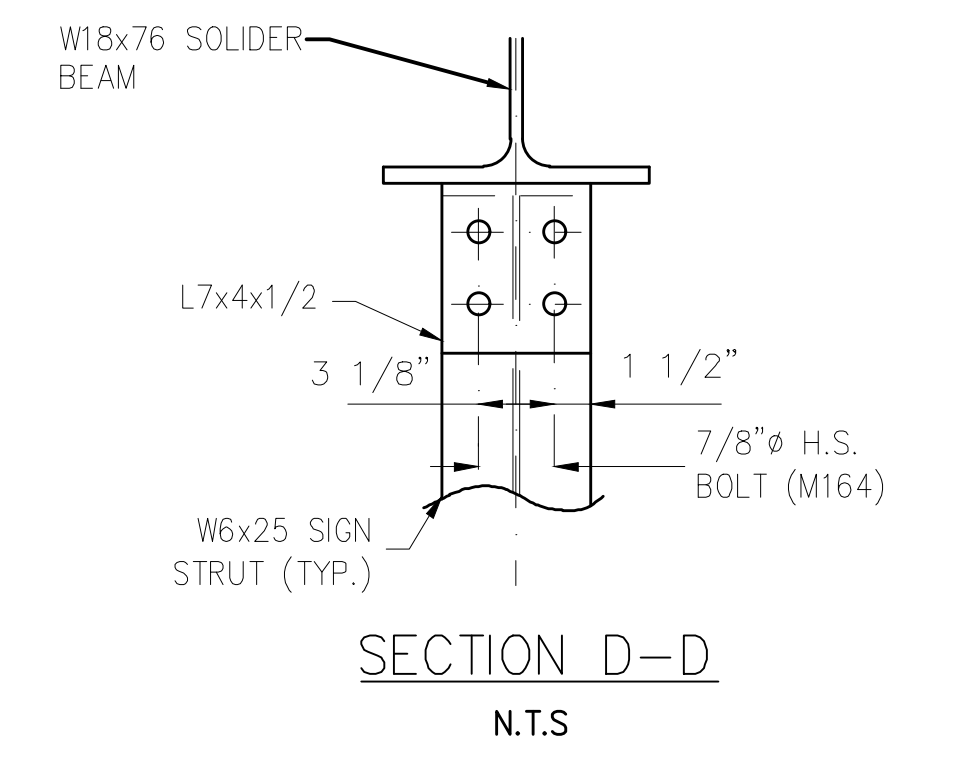
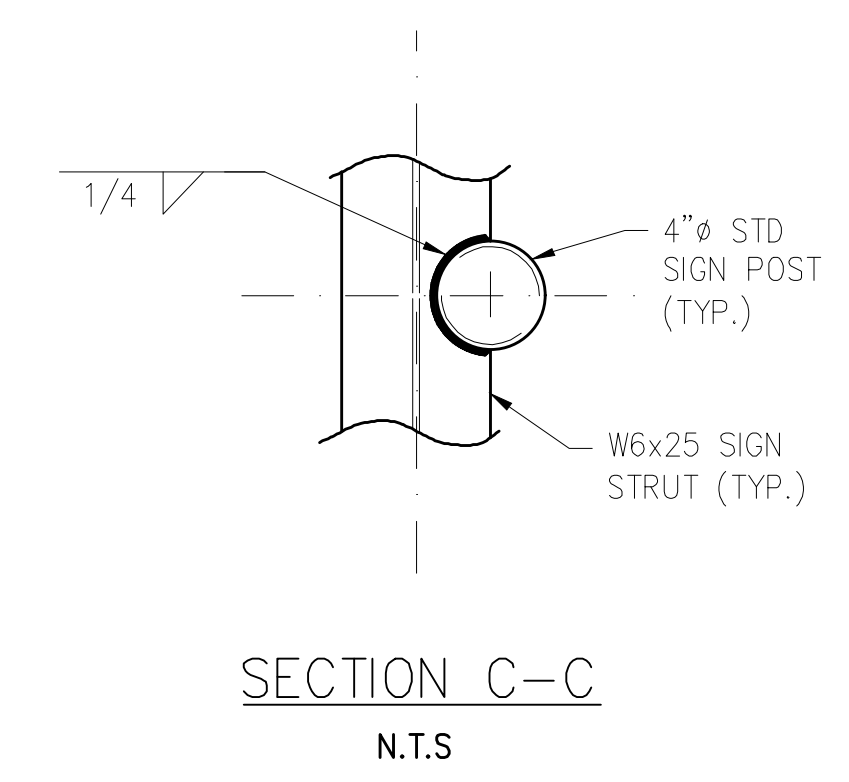
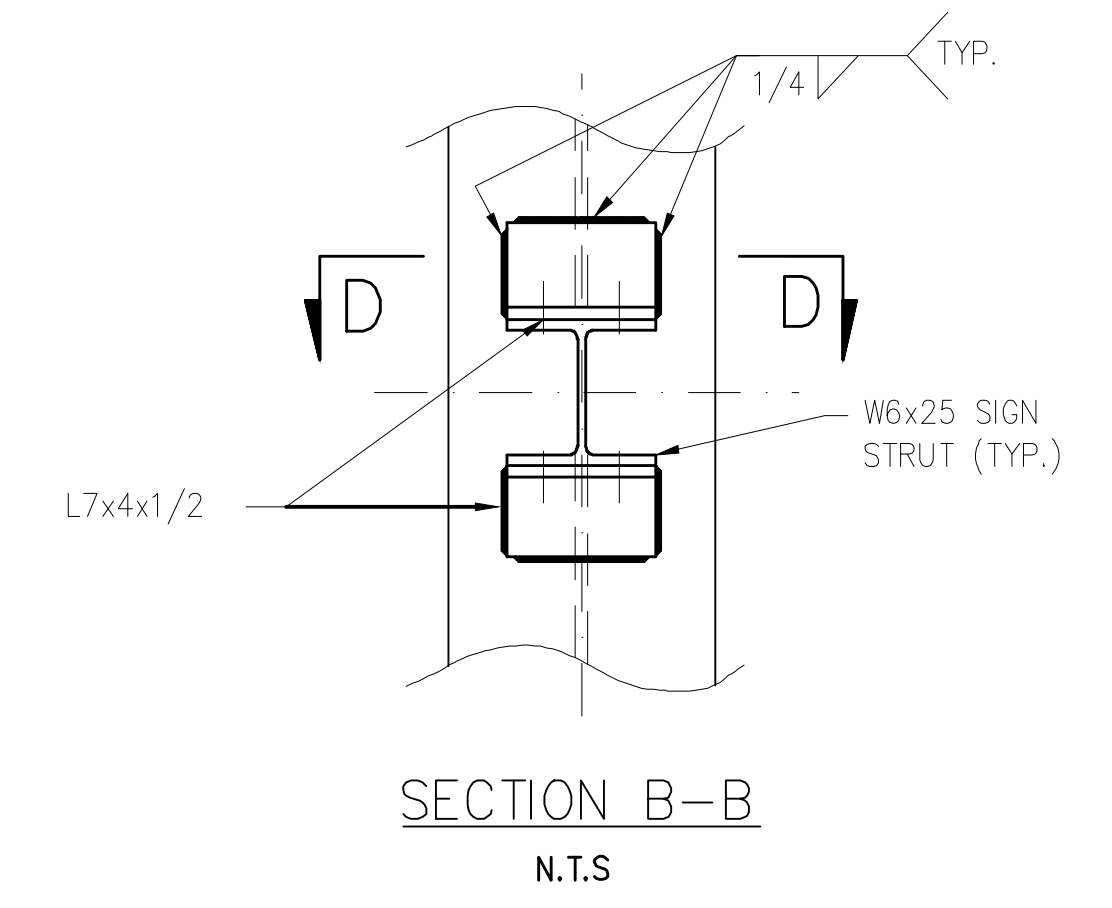
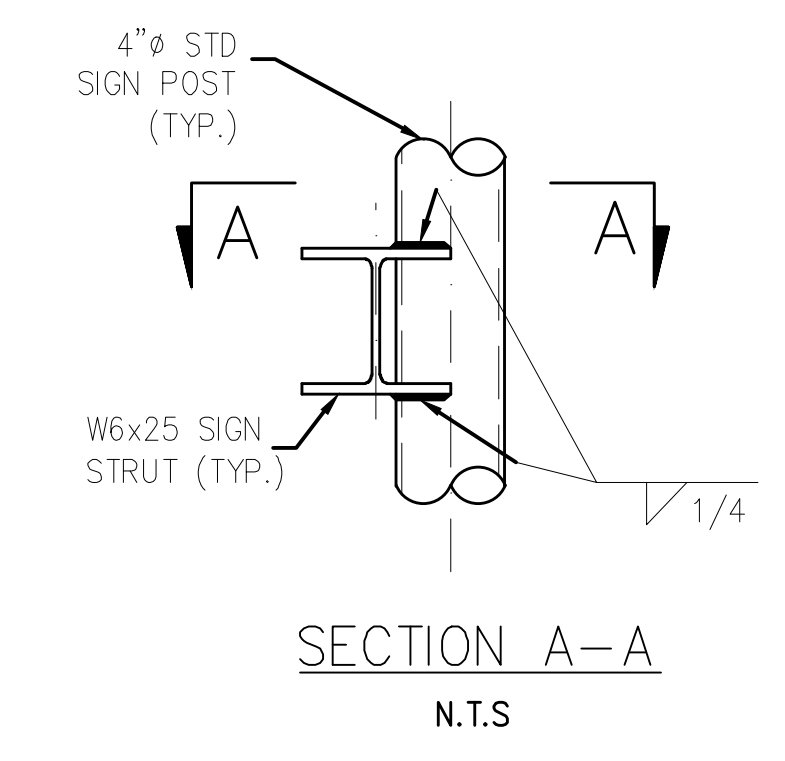
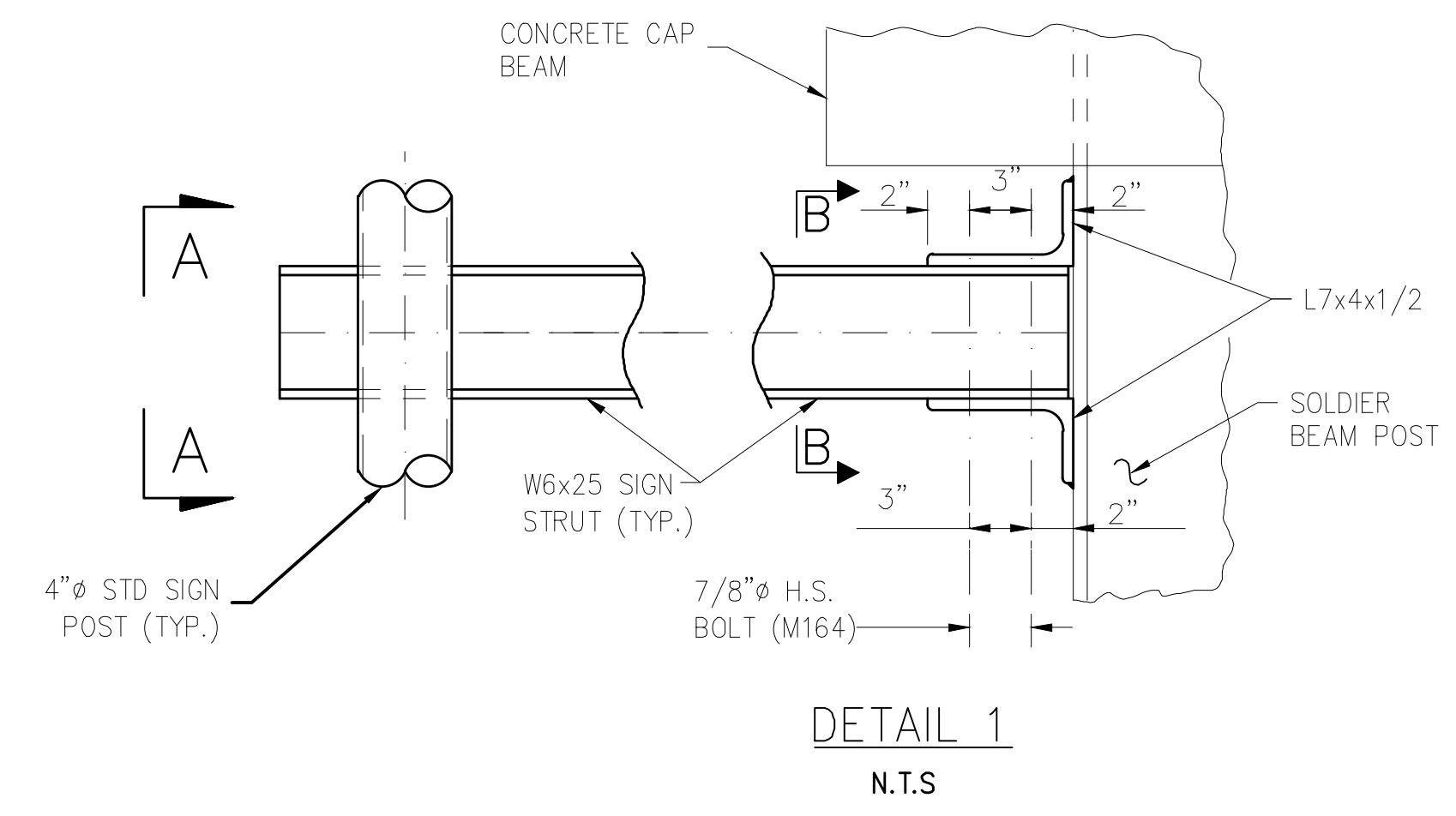
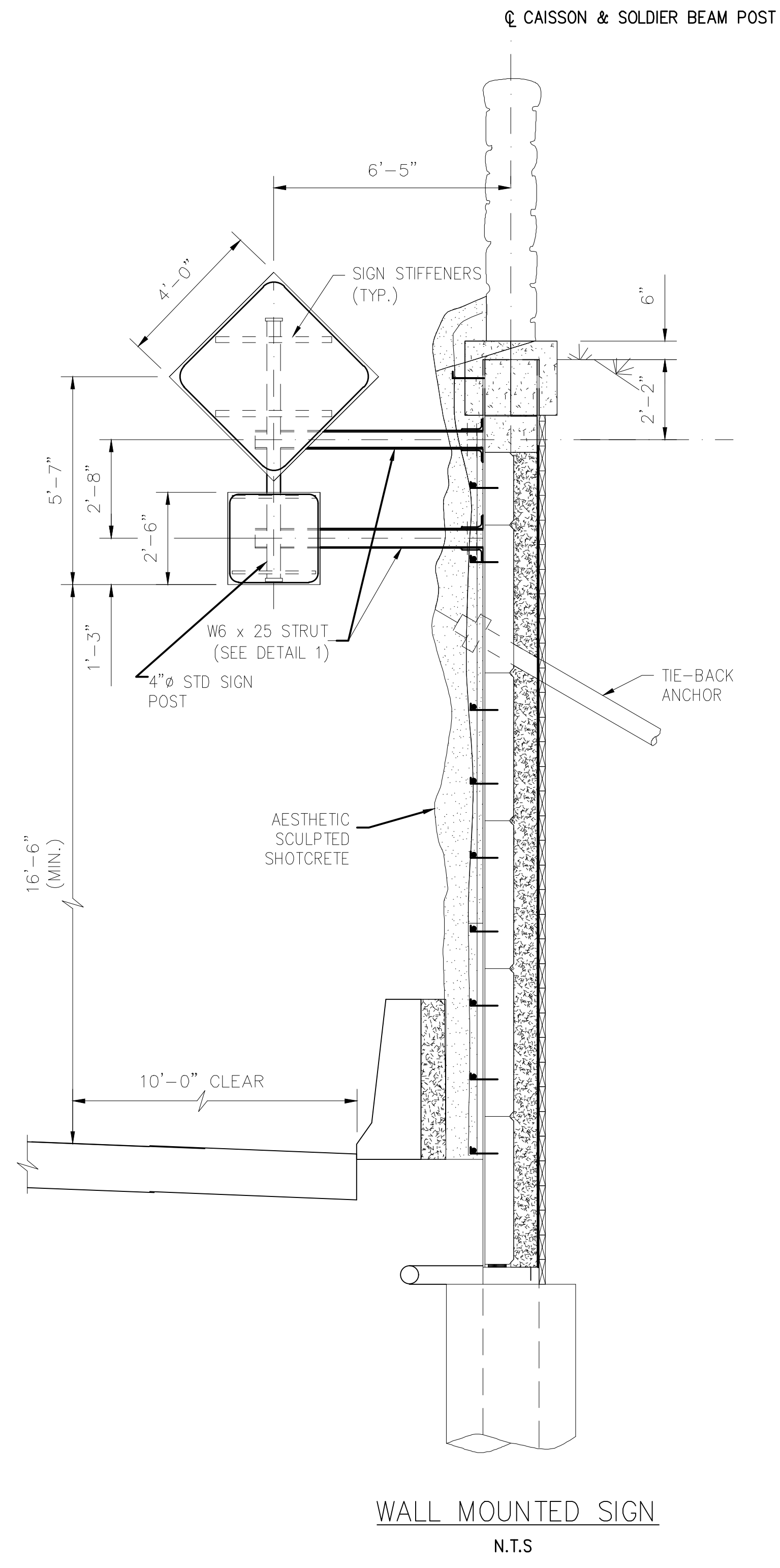


RECOMMENDED: DECEMBER 31, 2019  
*Gary L. Smith*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

**CONSTRUCTION**  
**MAINTENANCE AND PROTECTION OF TRAFFIC**  
**NOISE BARRIER PANEL**  
**POST MOUNTED SIGNS, TYPE D**

**PENNSYLVANIA TURNPIKE COMMISSION**  
**STANDARD DRAWING**  
 FILE NAME: PTS-980-26.dwg  
 DRAWING TYPE: 5A  
 SHEET 26 OF 40  
 DATE: DECEMBER 2019  
 PTS-980

EDGE/ROAD

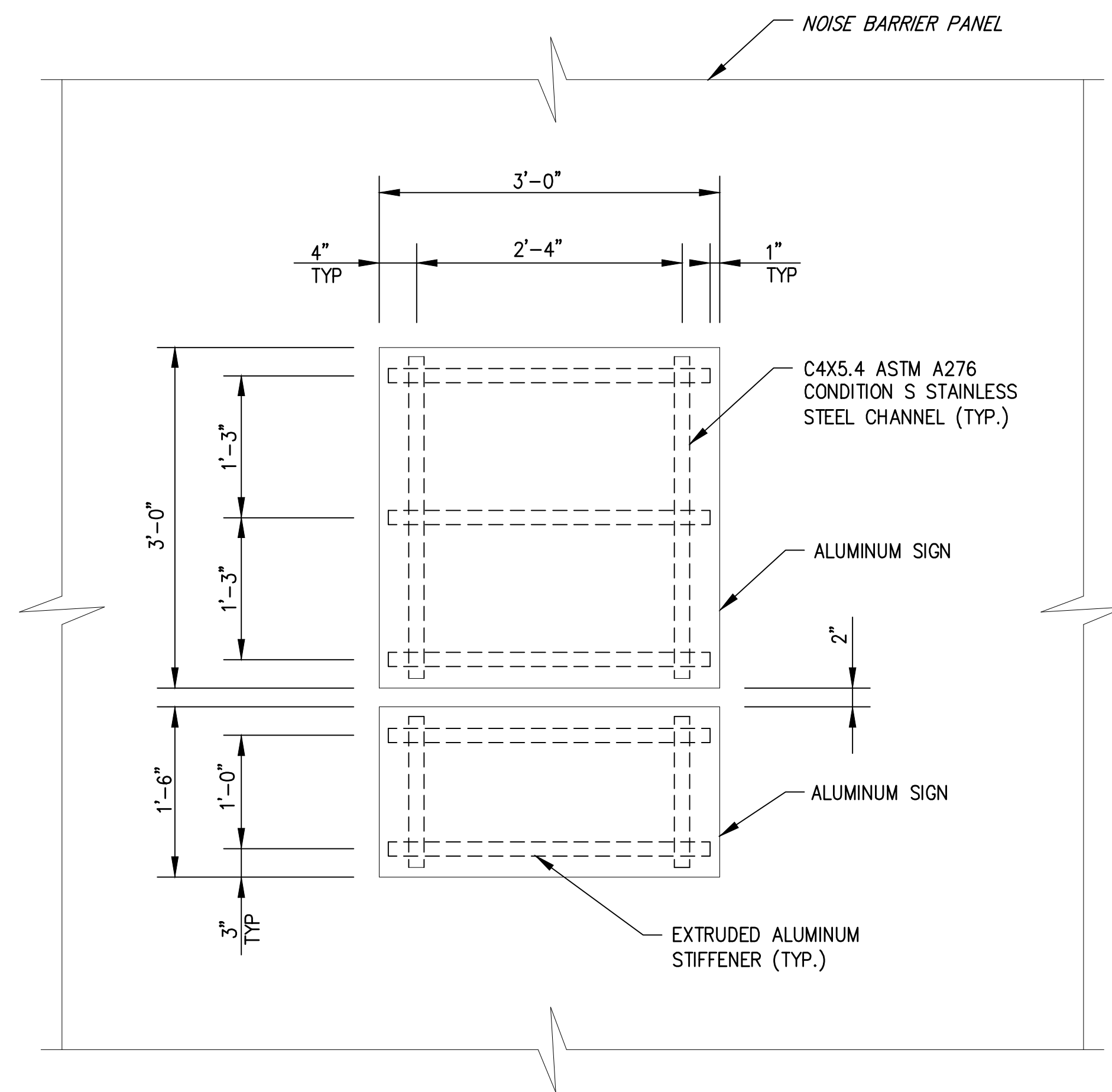


RECOMMENDED: DECEMBER 31, 2019  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
 CHIEF ENGINEER

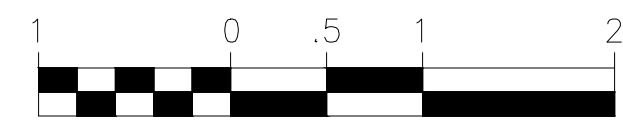
**CONSTRUCTION  
 MAINTENANCE AND PROTECTION OF TRAFFIC  
 WALL MOUNTED SIGNS  
 ANCHORED SOLDIER PILE WALL WITH  
 AESTHETIC SCULPTED SHOTCRETE**

**PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING**

FILE NAME: PTS-980-27.dwg	SHEET 27 OF 40
DRAWING TYPE: 5A	
<b>DATE: DECEMBER 2019</b>	<b>PTS-980</b>

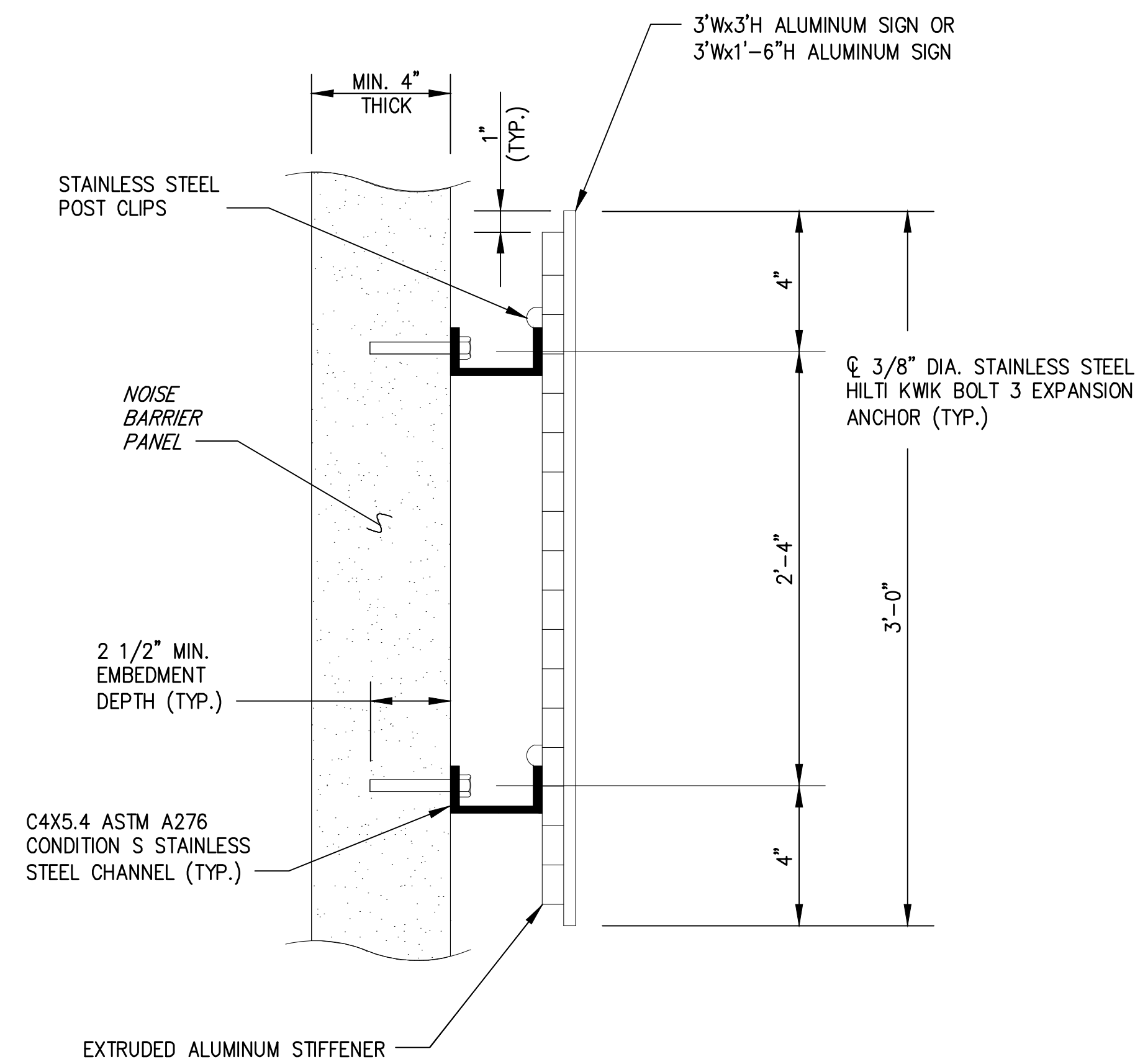


NOISE BARRIER PANEL MOUNTED SIGNS

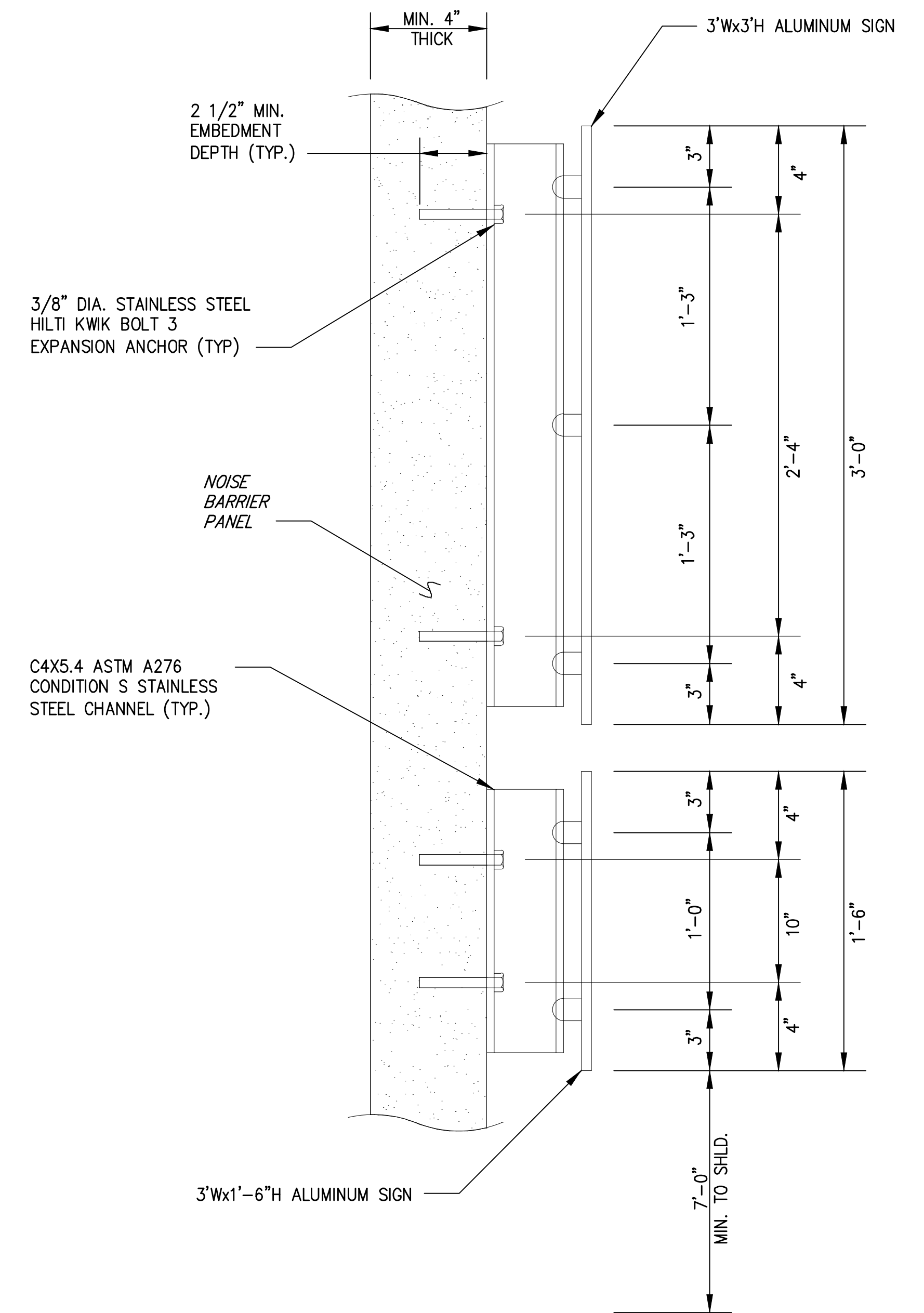


NOTES:

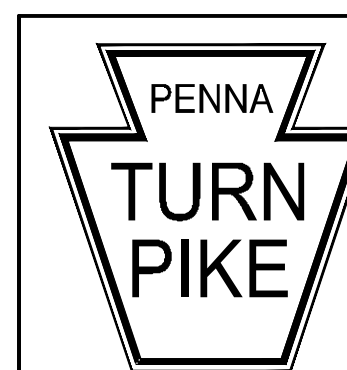
- DESIGN SPECIFICATIONS:  
AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS, FIFTH EDITION, 2009.
- EXISTING NOISE BARRIER PANELS ASSUMED TO BE A MINIMUM 4" THICK WITH A PRECAST CONCRETE STRENGTH EQUAL TO 5,000 PSI.
- REFER TO TC-8701S FOR ADDITIONAL SIGN ATTACHMENT DETAILS.



PLAN  
NOT TO SCALE



ELEVATION  
NOT TO SCALE



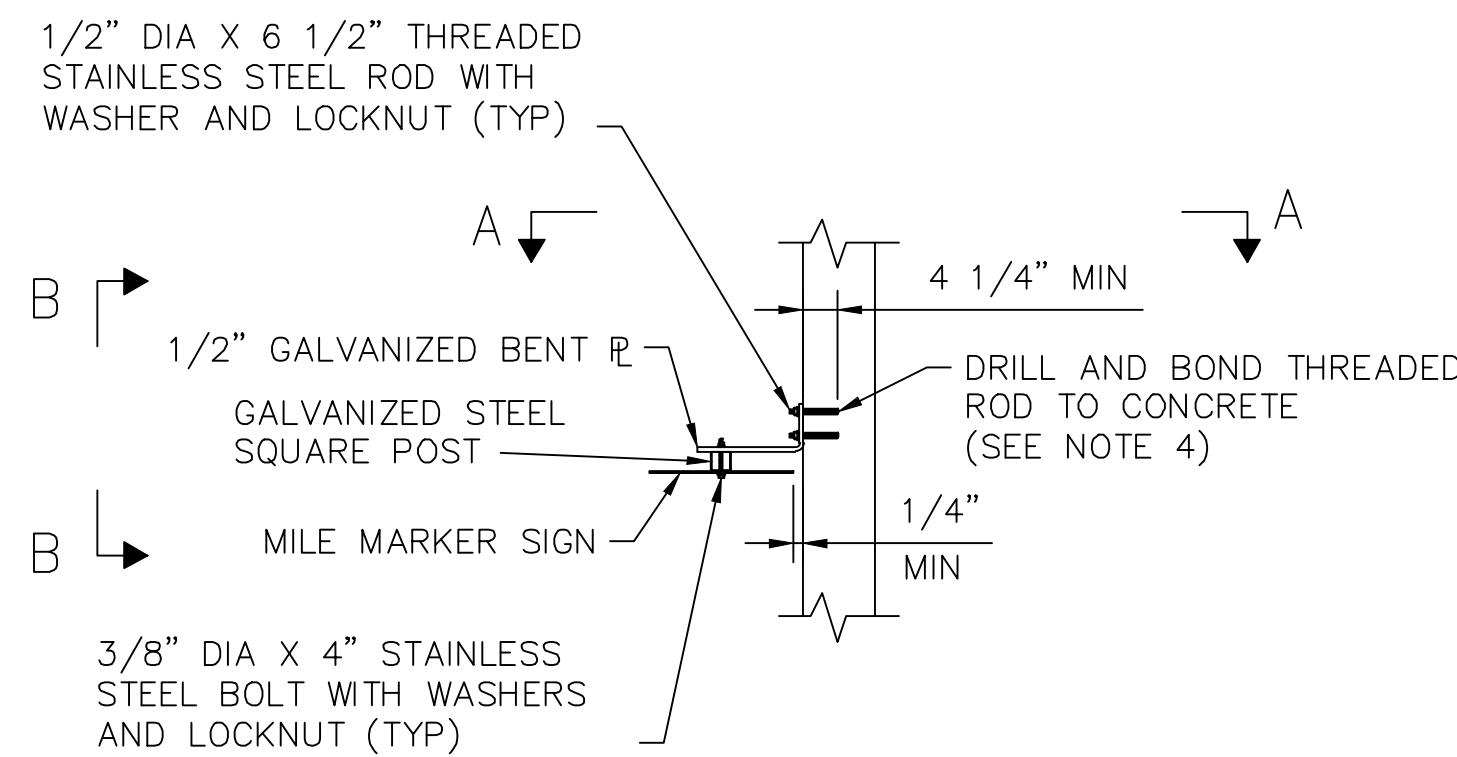
RECOMMENDED: DECEMBER 31, 2019  
*Gayle S. Johnson*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*M. B. [Signature]*  
 CHIEF ENGINEER

CONSTRUCTION  
 MAINTENANCE AND PROTECTION OF TRAFFIC  
 NOISE BARRIER PANEL  
 SIGN SUPPORT DETAILS

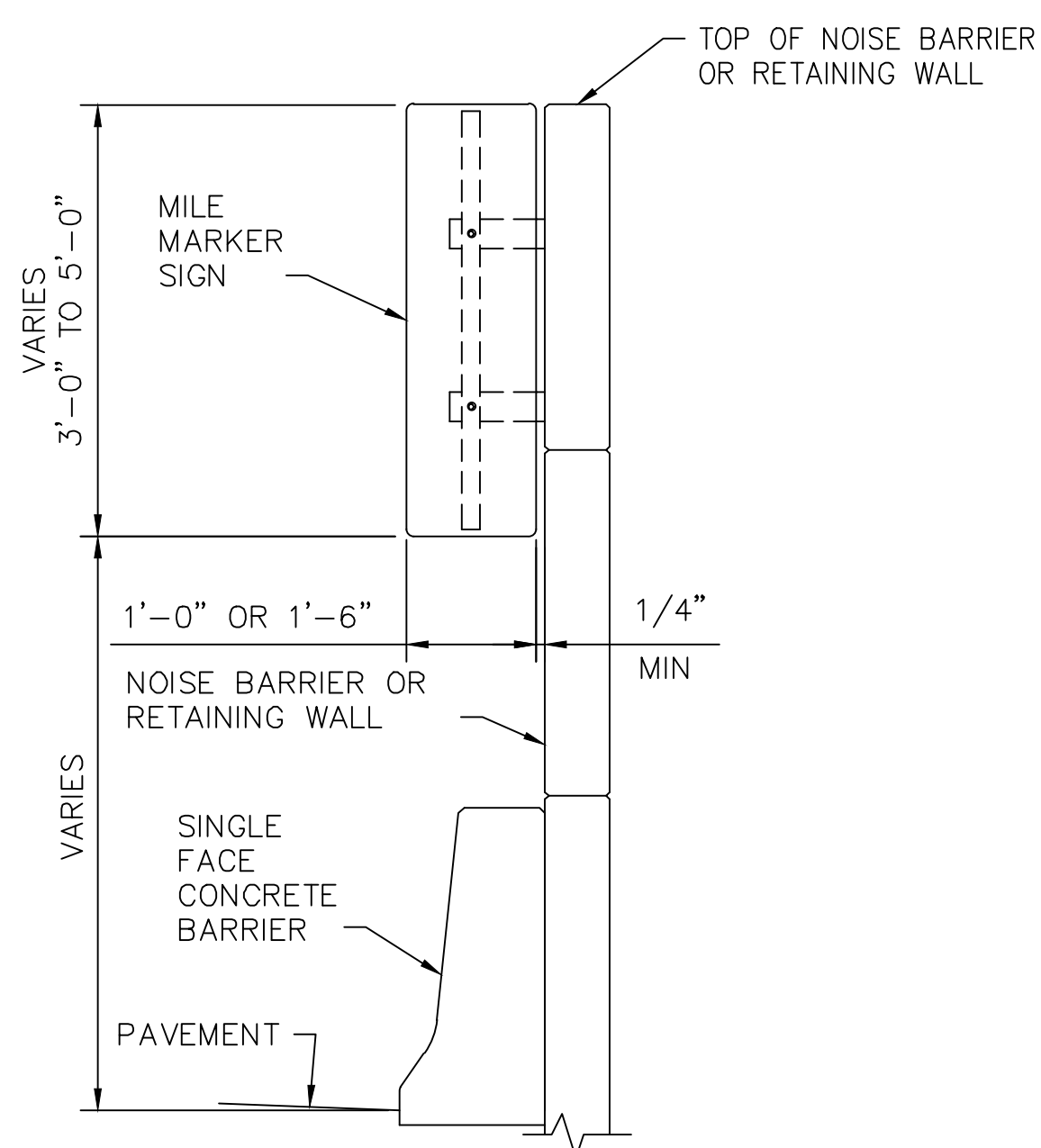
PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING

FILE NAME: PTS-980-28.dwg  
 DRAWING TYPE: 5A  
 SHEET 28 OF 40

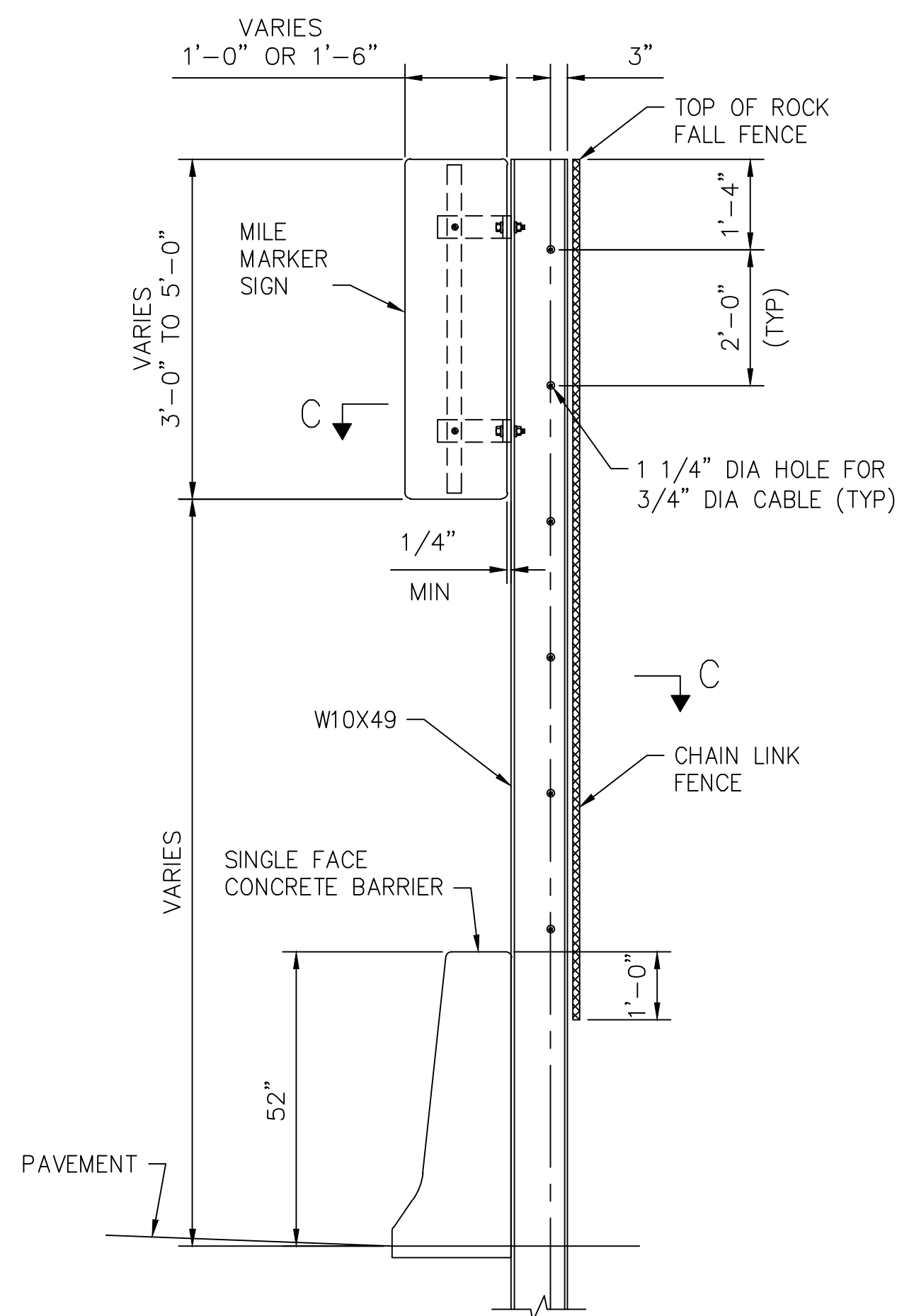
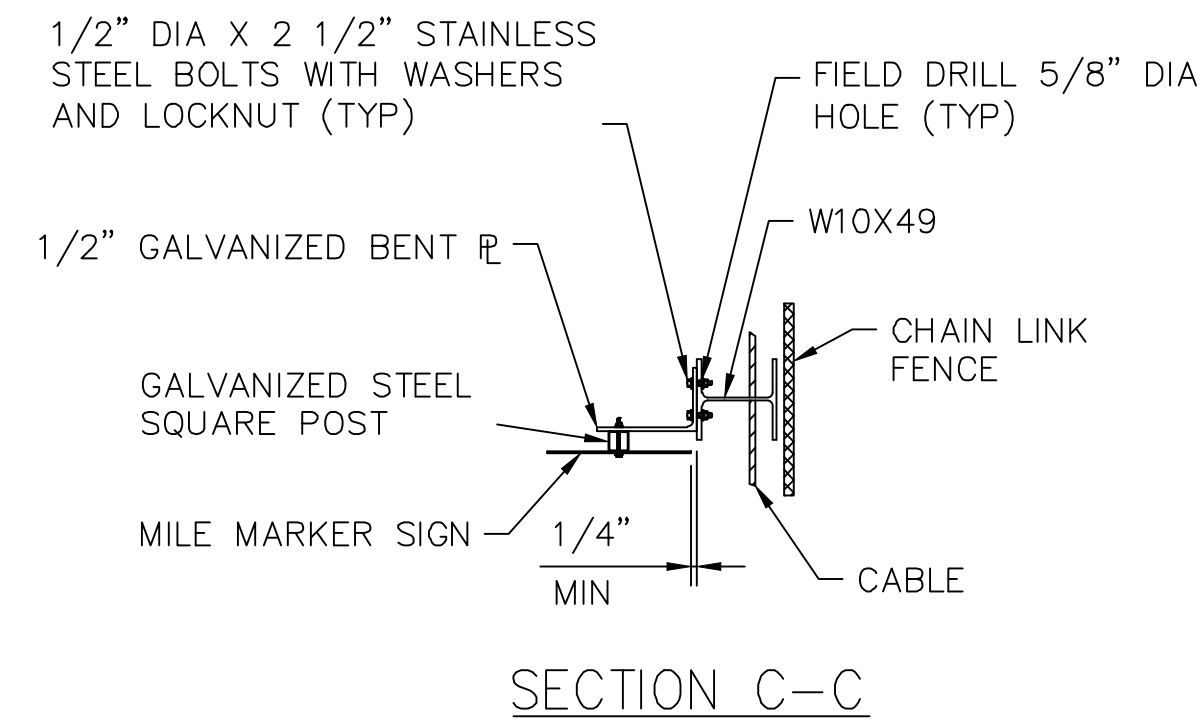
DATE: DECEMBER 2019  
 PTS-980



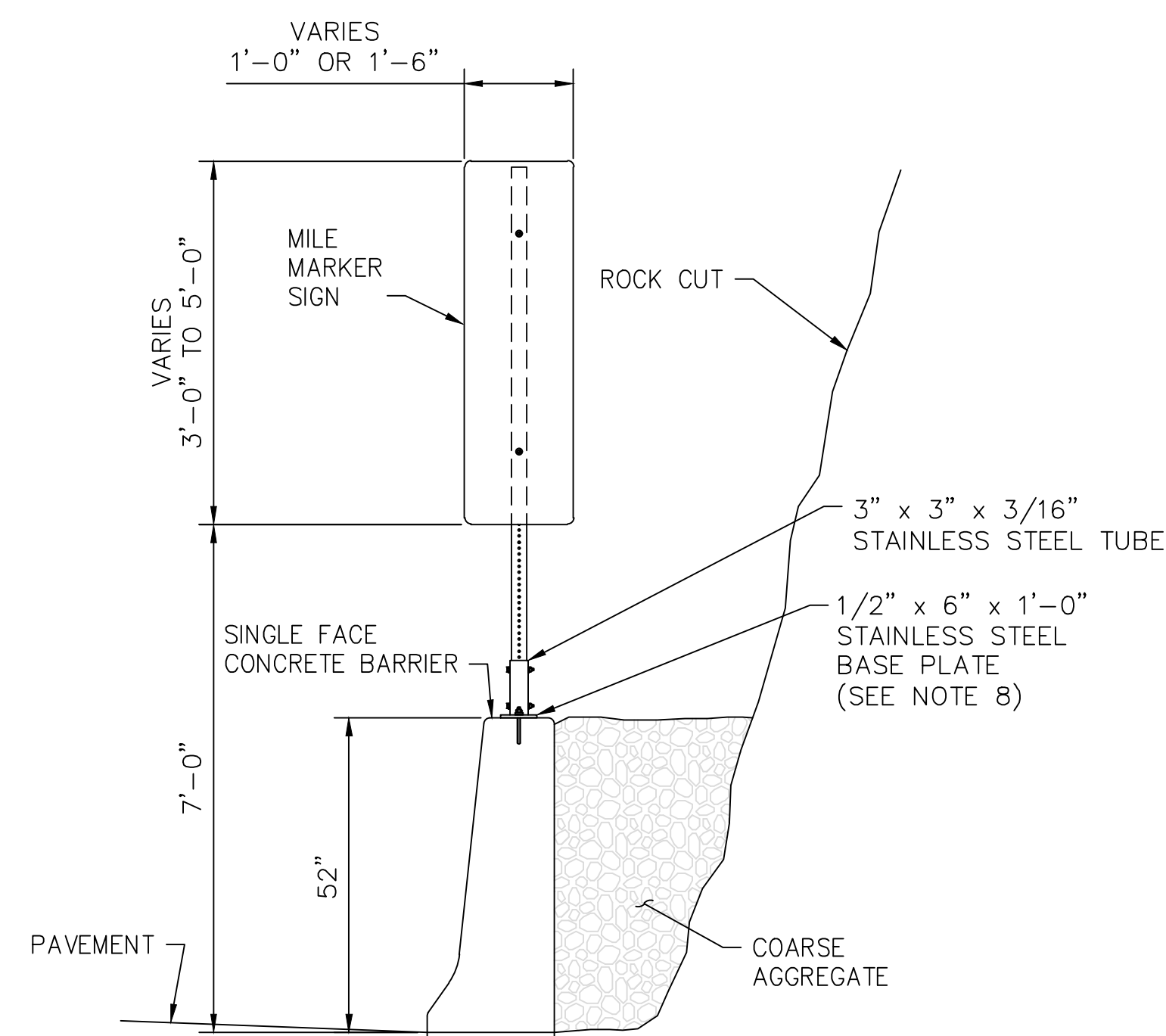
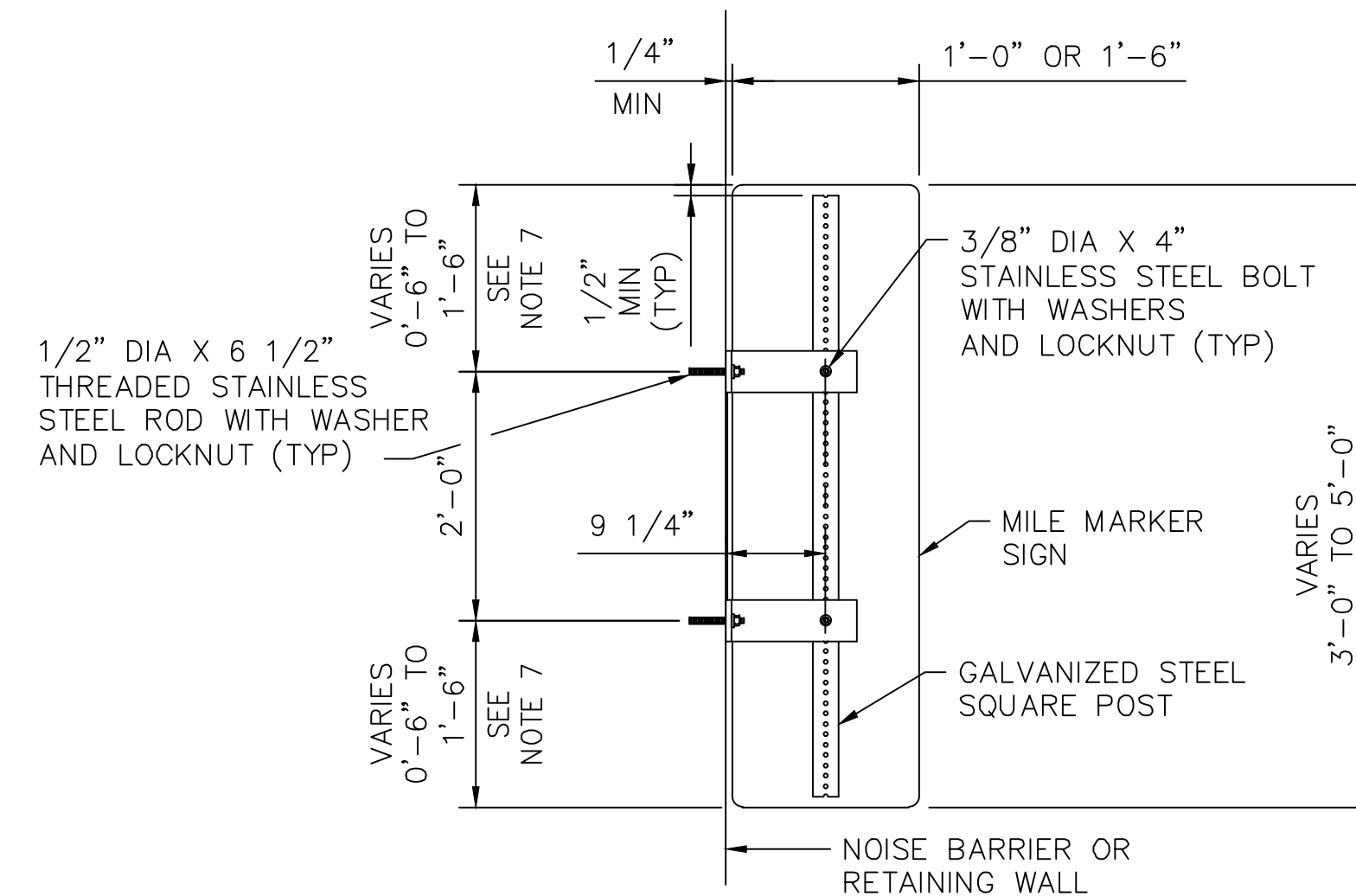
PLAN VIEW  
NOISE BARRIERS OR  
RETAINING WALLS



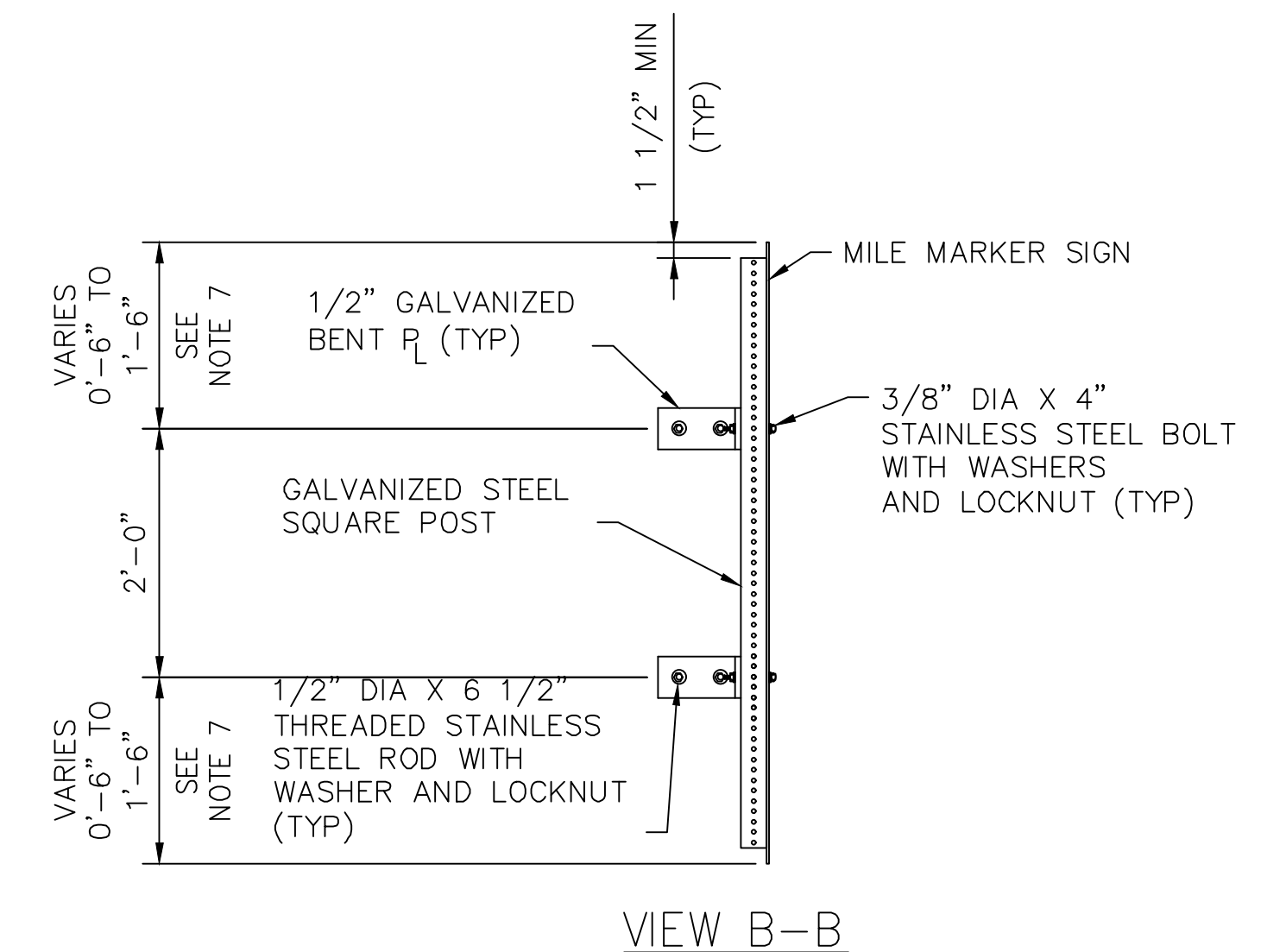
ELEVATION VIEW  
NOISE BARRIERS OR  
RETAINING WALLS  
(HEIGHT ≥ 11.00 FT)



ELEVATION VIEW  
ROCK FALL FENCE

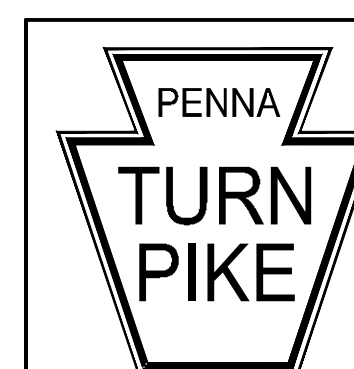


ELEVATION VIEW  
SINGLE FACE CONCRETE BARRIER  
ALONG ROCK CUT



NOTES:

- INSTALL SIGN SUPPORTS INTO CONCRETE PANELS OF NOISE BARRIERS OR RETAINING WALLS ONLY. DO NOT WELD TO STEEL POSTS OR DRILL INTO CONCRETE POSTS.
- DO NOT INSTALL SIGNS LARGER OR AT AN ELEVATION HIGHER THAN INDICATED.
- ADJUST LOCATION OF GALVANIZED BENT PLATE VERTICALLY ALONG GALVANIZED STEEL SQUARE POST IN FIELD AS NECESSARY TO MISS NOISE BARRIER OR RETAINING WALL PANEL JOINTS.
- MATERIALS:
  - PLATE: ASTM A709, GRADE 36, GALVANIZED
  - POST: 2 1/2" x 2 1/2" (10 GA.) GALVANIZED STEEL
  - BOLTS: ASTM F593, TYPE 304, CONDITION CW (F<sub>y</sub> = 65 KSI)
  - LOCKNUTS: ASTM 594
  - WASHERS: NYLON 1/8" THICK BY 1-INCH MINIMUM OUTSIDE DIAMETER WITH 480 INCH-POUNDS MAXIMUM ALLOWABLE APPLIED TORQUE
  - \* ANCHOR RODS: ASTM F593, TYPE 304, CONDITION CW (F<sub>y</sub> = 65 KSI)
  - \* ANCHORING SYSTEM: HVA ADHESIVE SYSTEM OR APPROVED EQUAL
  - \* AS MANUFACTURED BY HILTI FASTENING SYSTEMS. HAS RODS (ITEM NO 385464) AND HVU ADHESIVE CAPSULES (ITEM NO 256693), OR AN APPROVED EQUAL. INSTALL IN ACCORDING WITH MANUFACTURER'S RECOMMENDATIONS.
- FOR GALVANIZED BENT PLATE DETAIL, SEE SHEET 32 OF 40.
- FOR RETAINING WALL HEIGHT < 11.00 FT SEE SHEET 30 OF 40.
- ADJUST DIMENSIONS AS REQUIRED FOR FIELD CONDITIONS.
- FOR BASE PLATE DETAILS, SEE SHEET 30 OF 40.
- FOR BASE PLATE MOUNTING TO SINGLE FACE CONCRETE BARRIER, SEE SHEET 30 OF 40.
- FOR SIGNS WITH A TOTAL SIGN AREA LESS THAN OR EQUAL TO 12 SQUARE FEET USE 2 1/2" x 2 1/2" (10 GA) GALVANIZED STEEL SQUARE POST. FASTEN POST TO SIGN SUPPORT USING TWO (2) 3/8" DIAMETER STAINLESS STEEL BOLTS, WASHERS AND LOCKNUTS.



RECOMMENDED: DECEMBER 31, 2019

*Gary L. Smith*

ASSISTANT CHIEF ENGINEER - DESIGN

APPROVED: DECEMBER 30, 2019

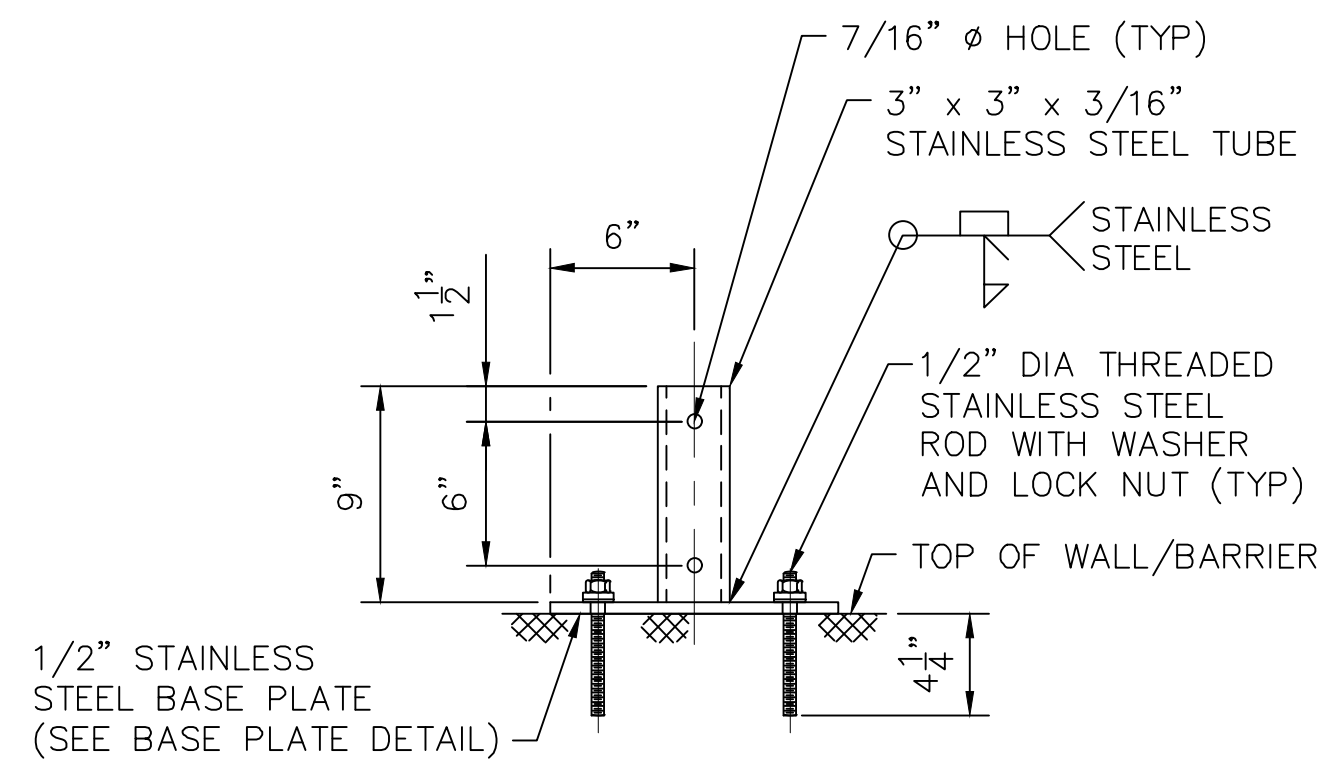
*[Signature]*

CHIEF ENGINEER

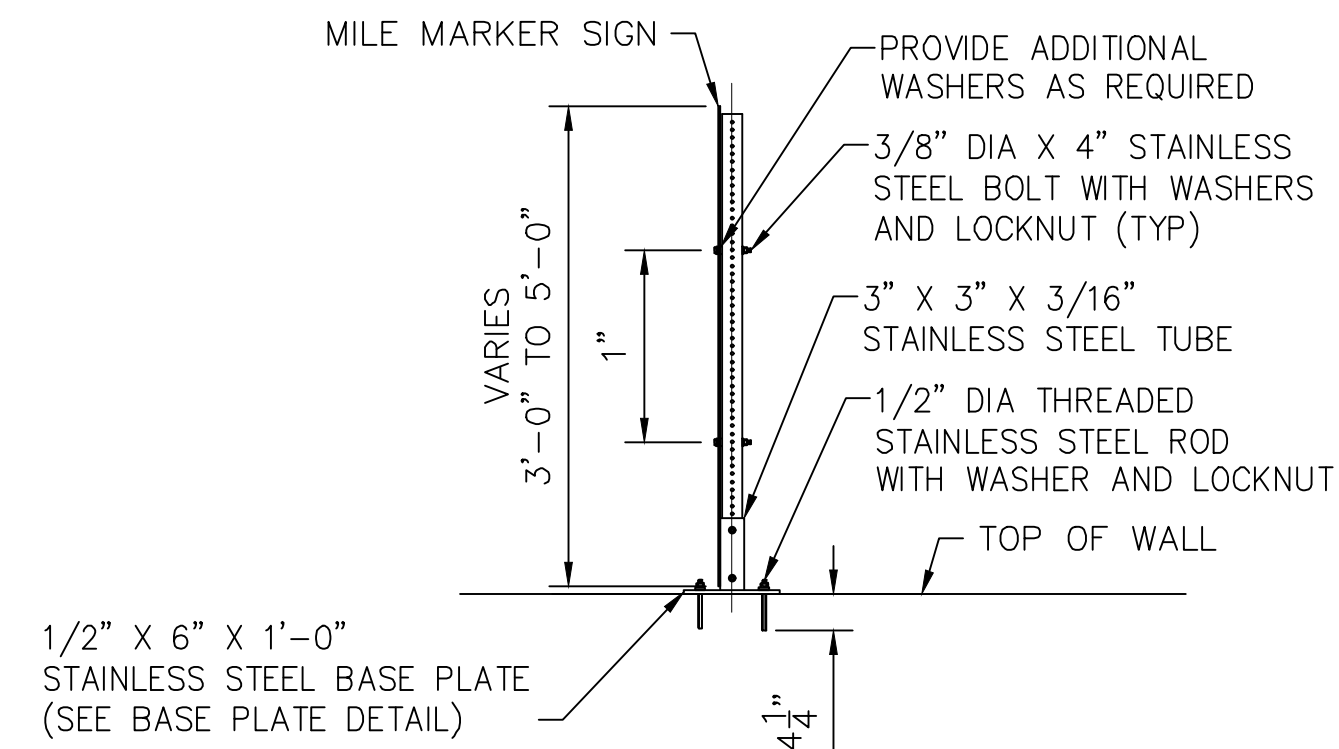
CONSTRUCTION AND MAINTENANCE  
INSTALLATION OF MILE MARKER SIGNS  
ON  
NOISE BARRIERS, RETAINING WALLS OR  
ROCK FALL FENCE

PENNSYLVANIA TURNPIKE COMMISSION  
STANDARD DRAWING

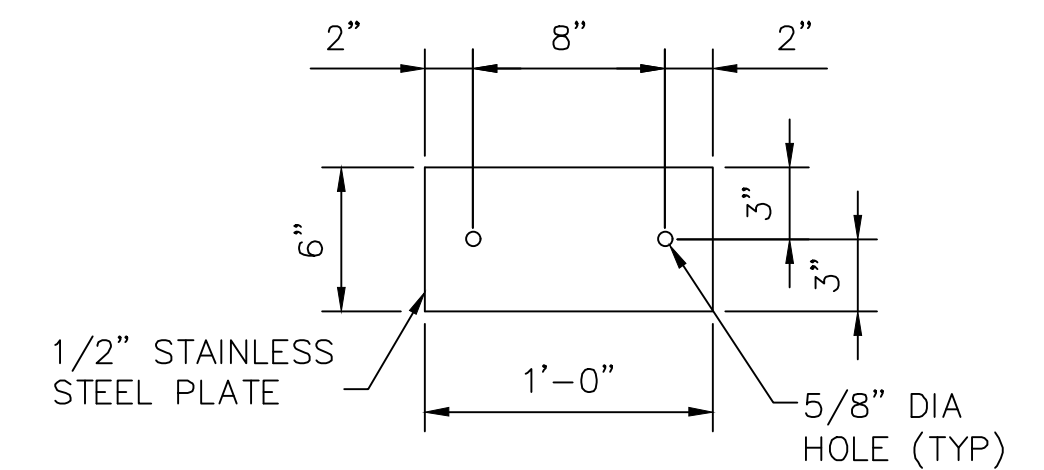
FILE NAME: PTS-980-22.dwg  
DRAWING TYPE: 5A  
DATE: DECEMBER 2019  
SHEET 29 OF 40  
PTS-980



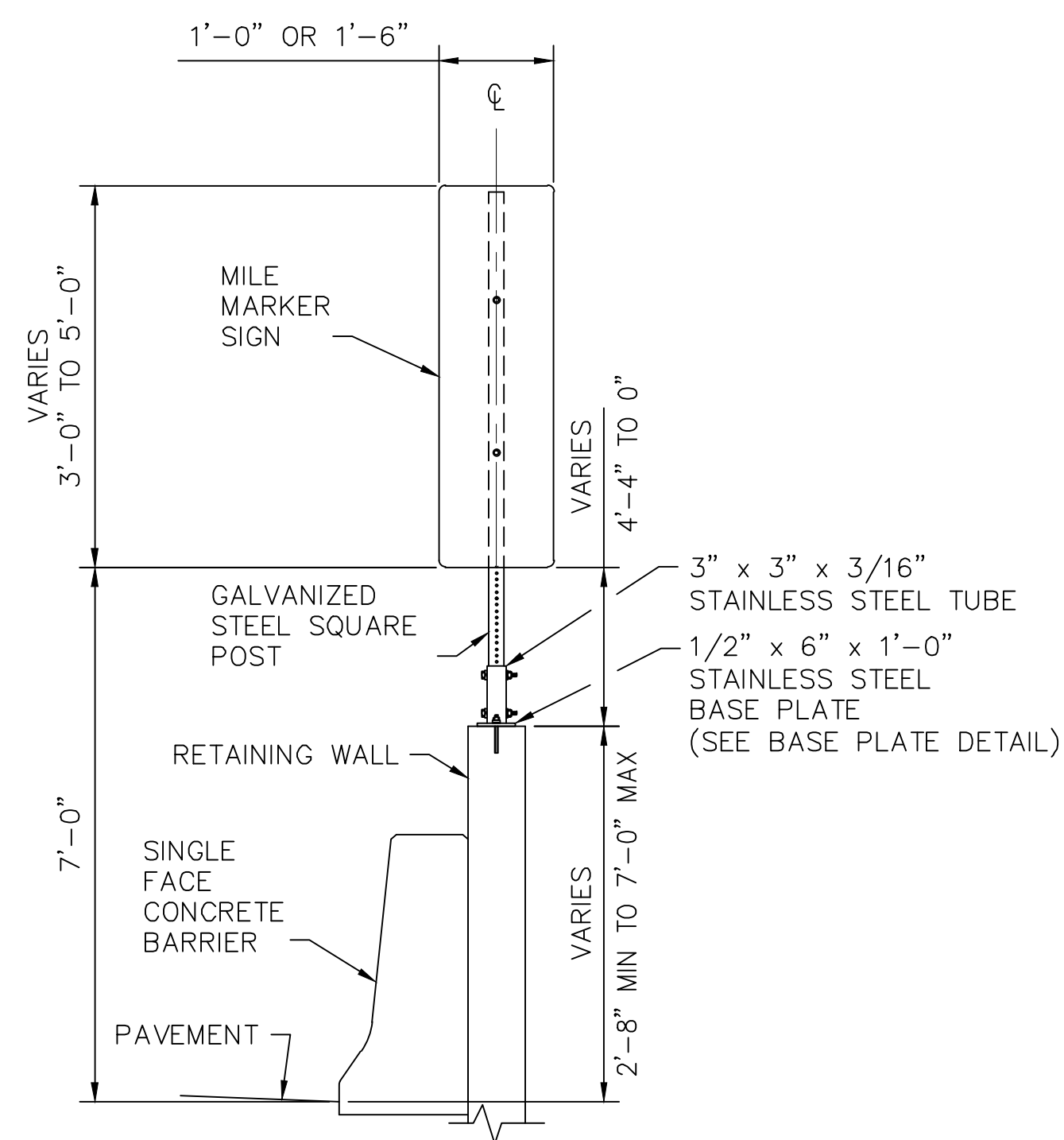
RETAINING WALL / SINGLE FACE BARRIER  
MOUNTING DETAIL



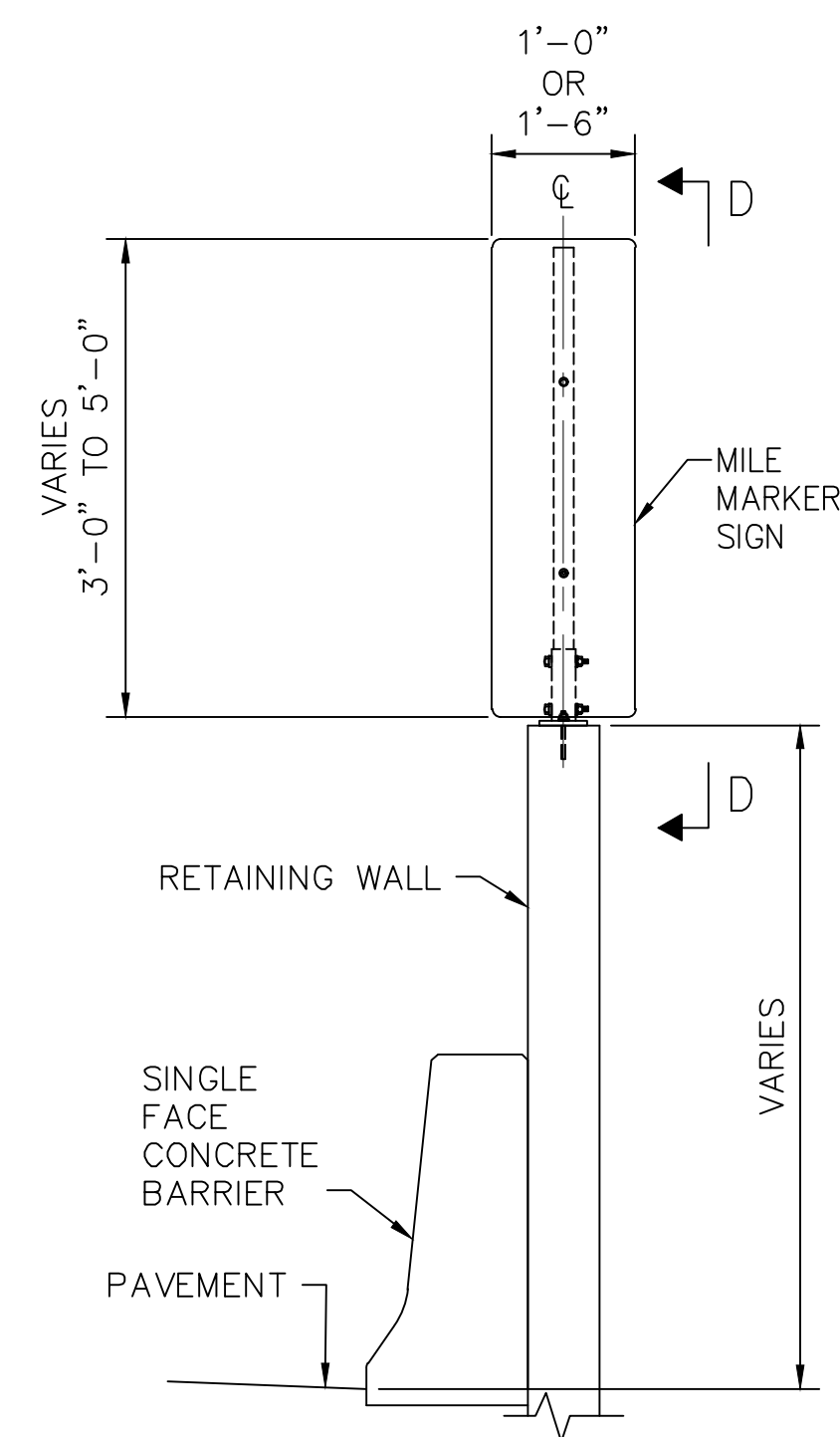
VIEW D-D



BASE PLATE DETAIL



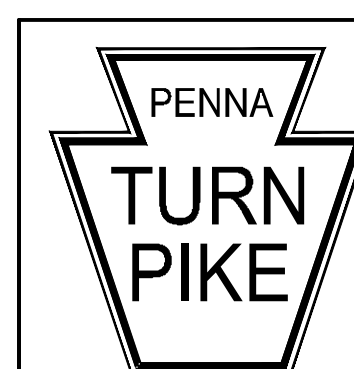
ELEVATION VIEW  
RETAINING WALLS  
(HEIGHT < 7.00 FT)



ELEVATION VIEW  
RETAINING WALLS  
(7.00 FT < HEIGHT < 11.00 FT)

NOTES:

1. ADJUST BENT PLATE DETAILS TO FIT FIELD CONDITIONS.
2. ADJUST DIMENSIONS AS REQUIRED FOR FIELD CONDITIONS.
3. FOR BENT PLATE DETAILS, SEE SHEET 32 OF 40.
4. FOR SIGNS WITH A TOTAL SIGN AREA LESS THAN OR EQUAL TO 12 SQUARE FEET USE 2 1/2" x 2 1/2" (10 GA) GALVANIZED STEEL SQUARE POST. FASTEN POST TO THE SIGN SUPPORT USING TWO (2) 3/8" DIAMETER STAINLESS STEEL BOLTS, WASHERS AND LOCKNUTS.
5. FOR ADDITIONAL NOTES, SEE SHEET 29 OF 40.



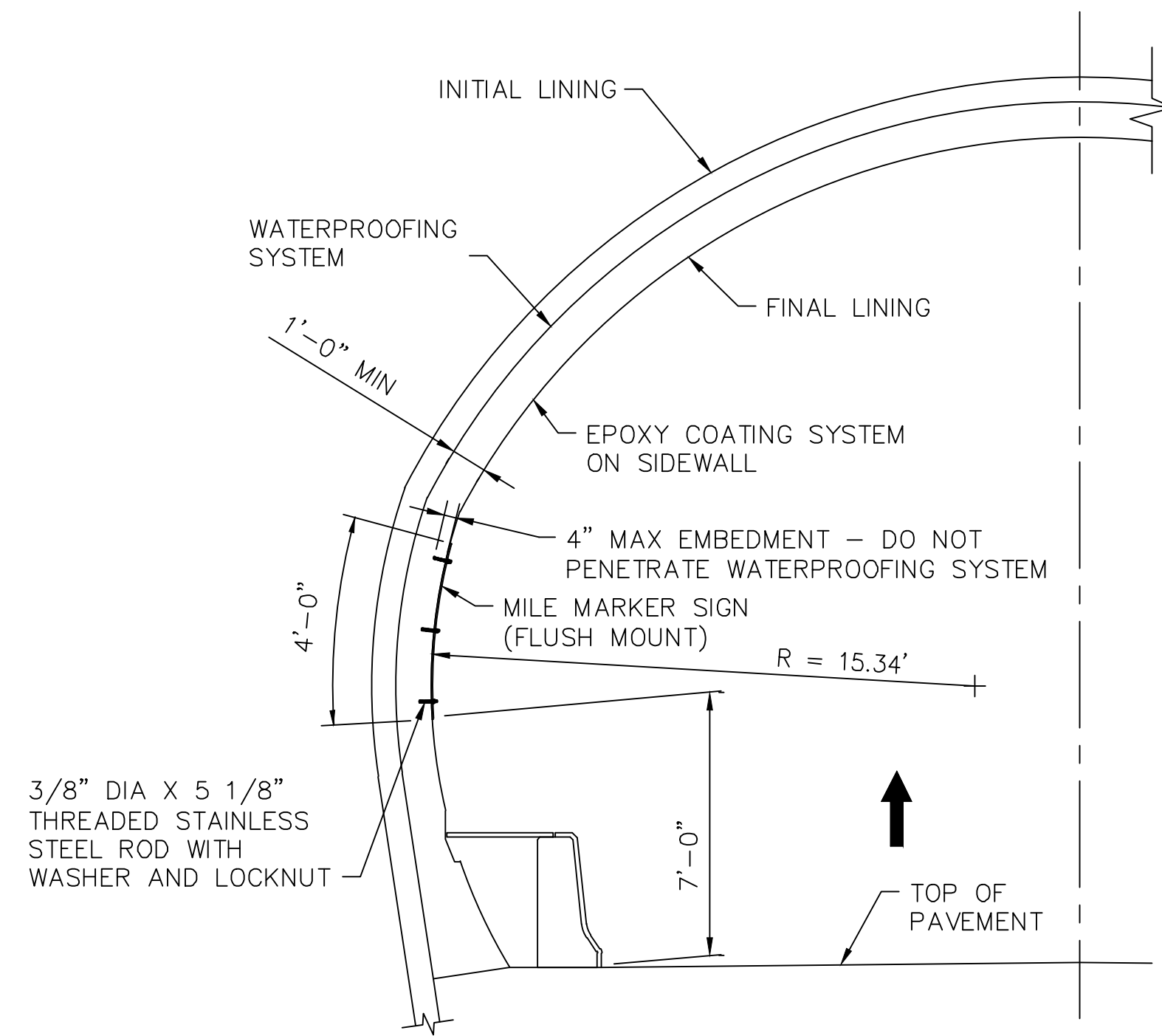
RECOMMENDED: DECEMBER 31, 2019  
*Gary L. G...*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE  
 INSTALLATION OF MILE MARKER SIGNS  
 ON  
 NOISE BARRIERS, RETAINING WALLS OR  
 ROCK FALL FENCE

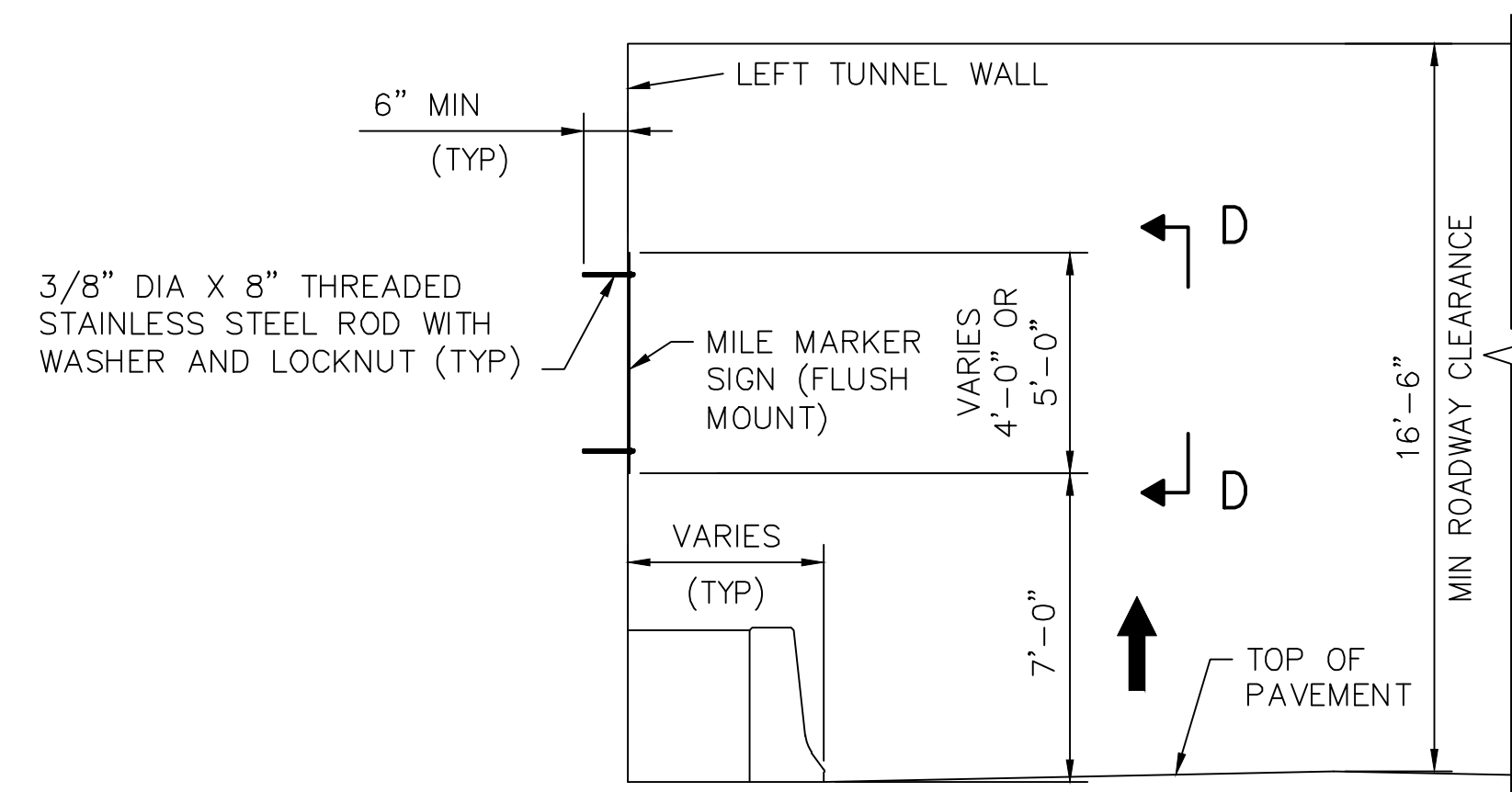
PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING

FILE NAME: PTS-980-30.dwg  
 DRAWING TYPE: 5A  
 SHEET 30 OF 40

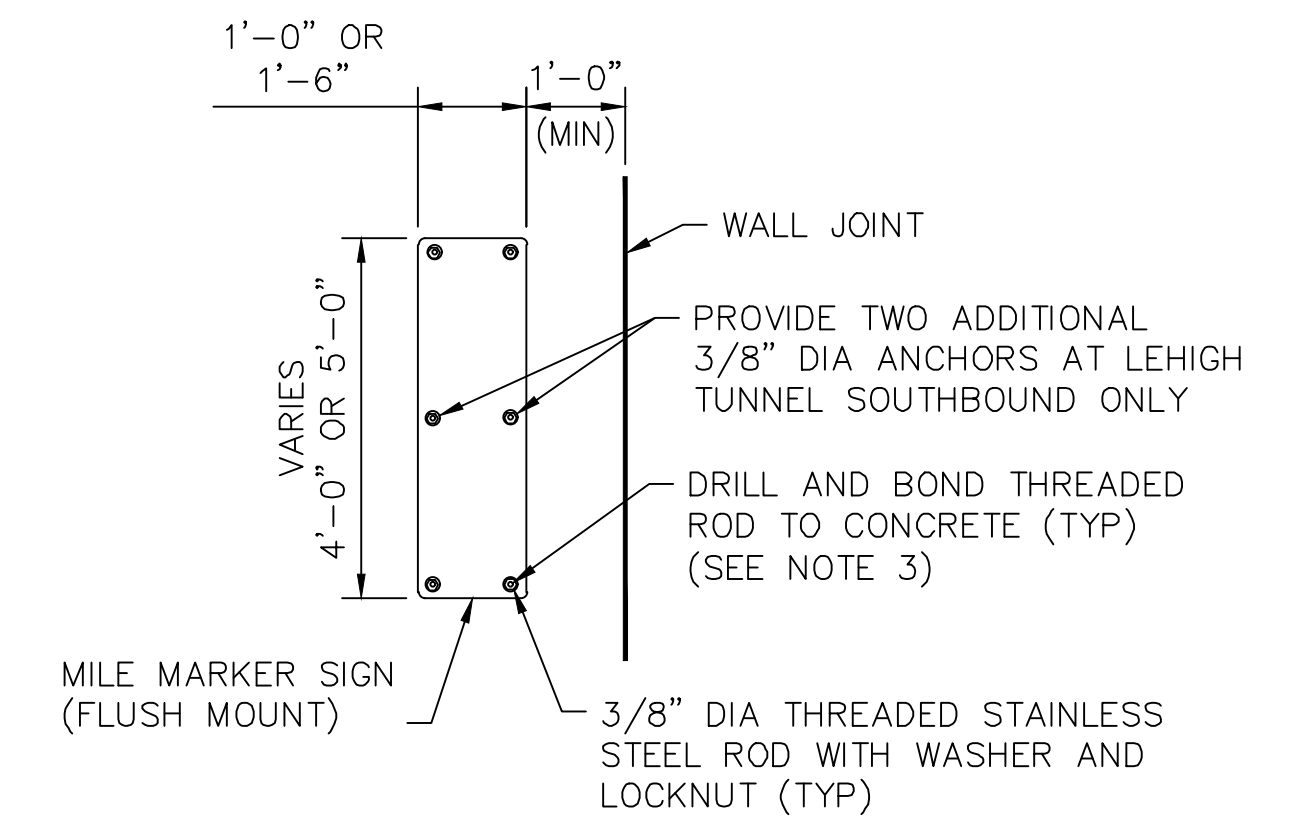
DATE: DECEMBER 2019  
 PTS-980



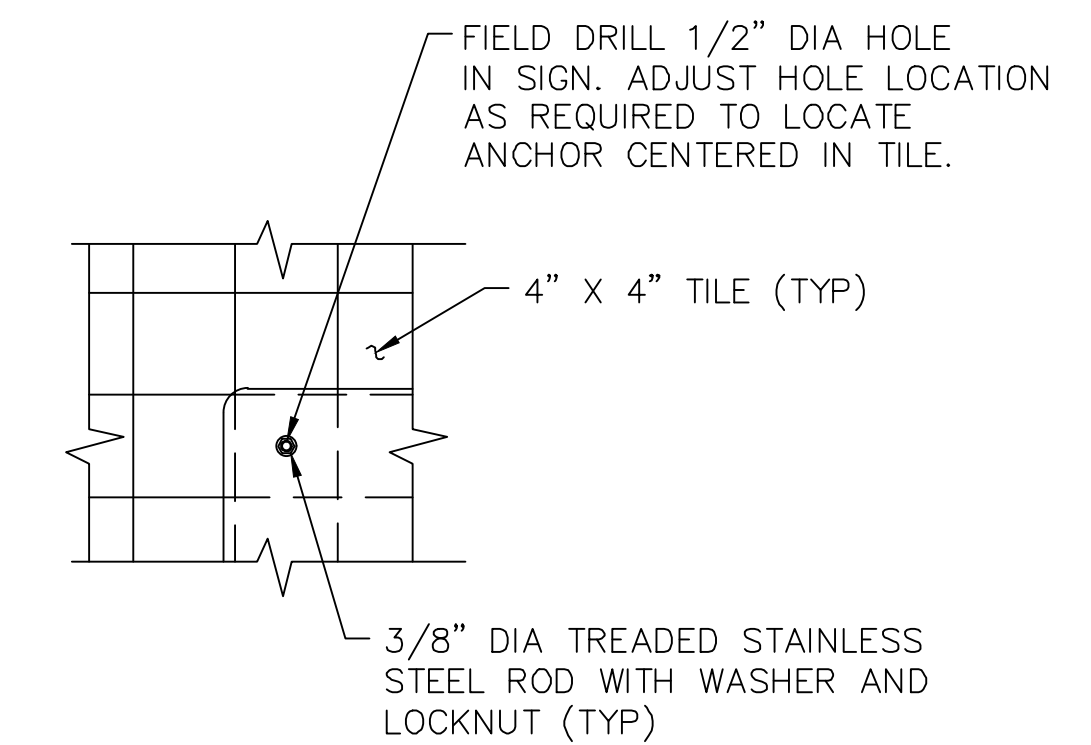
**PARTIAL ELEVATION**  
LEHIGH TUNNEL SOUTHBOUND



**PARTIAL ELEVATION**  
ALLEGHENY TUNNEL,  
TUSCARORA TUNNEL,  
KITTATINNY TUNNEL AND  
LEHIGH TUNNEL NORTHBOUND



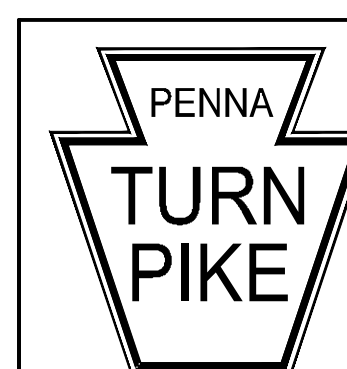
**VIEW D-D**



**WALL TILE MOUNTING DETAIL**

**NOTES:**

- ADJUST SIGN LOCATION AS NECESSARY TO AVOID DOORS AND WALL CABINETRY.
- LOCATE TOP OF MILE MARKER SIGN 1'-0" BELOW LIGHTING SYSTEM INSTALLED IN THE LEHIGH TUNNEL NORTHBOUND.
- MATERIALS:
  - LOCKNUTS: ASTM 594
  - WASHERS: NYLON 1/8" THICK BY 1-INCH MINIMUM OUTSIDE DIAMETER WITH 480 INCH-POUNDS MAXIMUM ALLOWABLE APPLIED TORQUE
  - \* ANCHOR RODS: ASTM F593, TYPE 304, CONDITION CW (Fy = 65 KSI)
  - \* ANCHORING SYSTEM: HVA ADHESIVE SYSTEM OR APPROVED EQUAL
  - \* AS MANUFACTURED BY HILTI FASTENING SYSTEMS. HAS RODS (ITEM NO 385462 AND 385463) AND HVU ADHESIVE CAPSULES (ITEM NO 256692), OR AN APPROVED EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



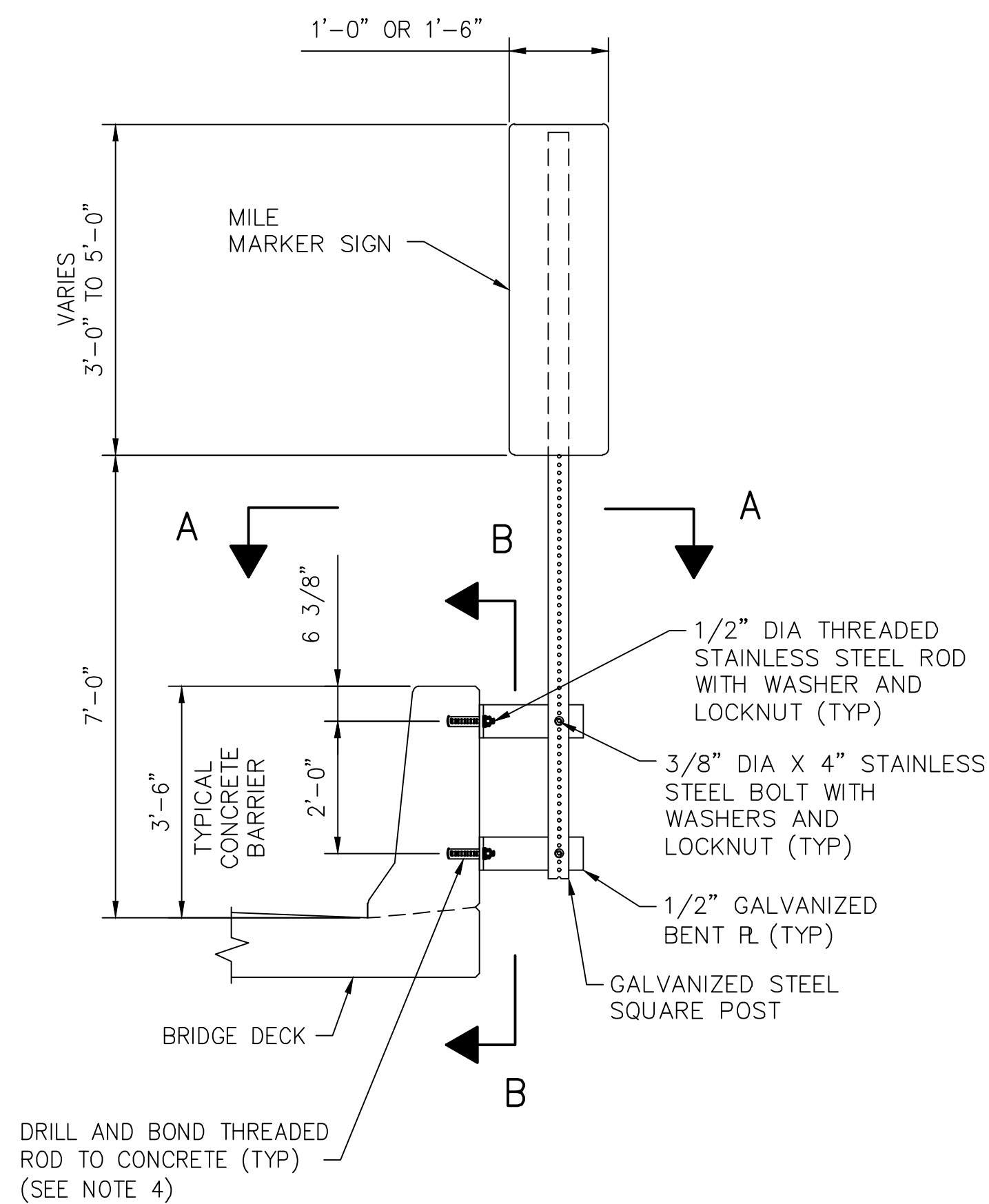
RECOMMENDED: DECEMBER 31, 2019  
*Gary L. Gilman*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

**CONSTRUCTION AND MAINTENANCE  
INSTALLATION OF MILE MARKER SIGNS  
IN  
TUNNELS**

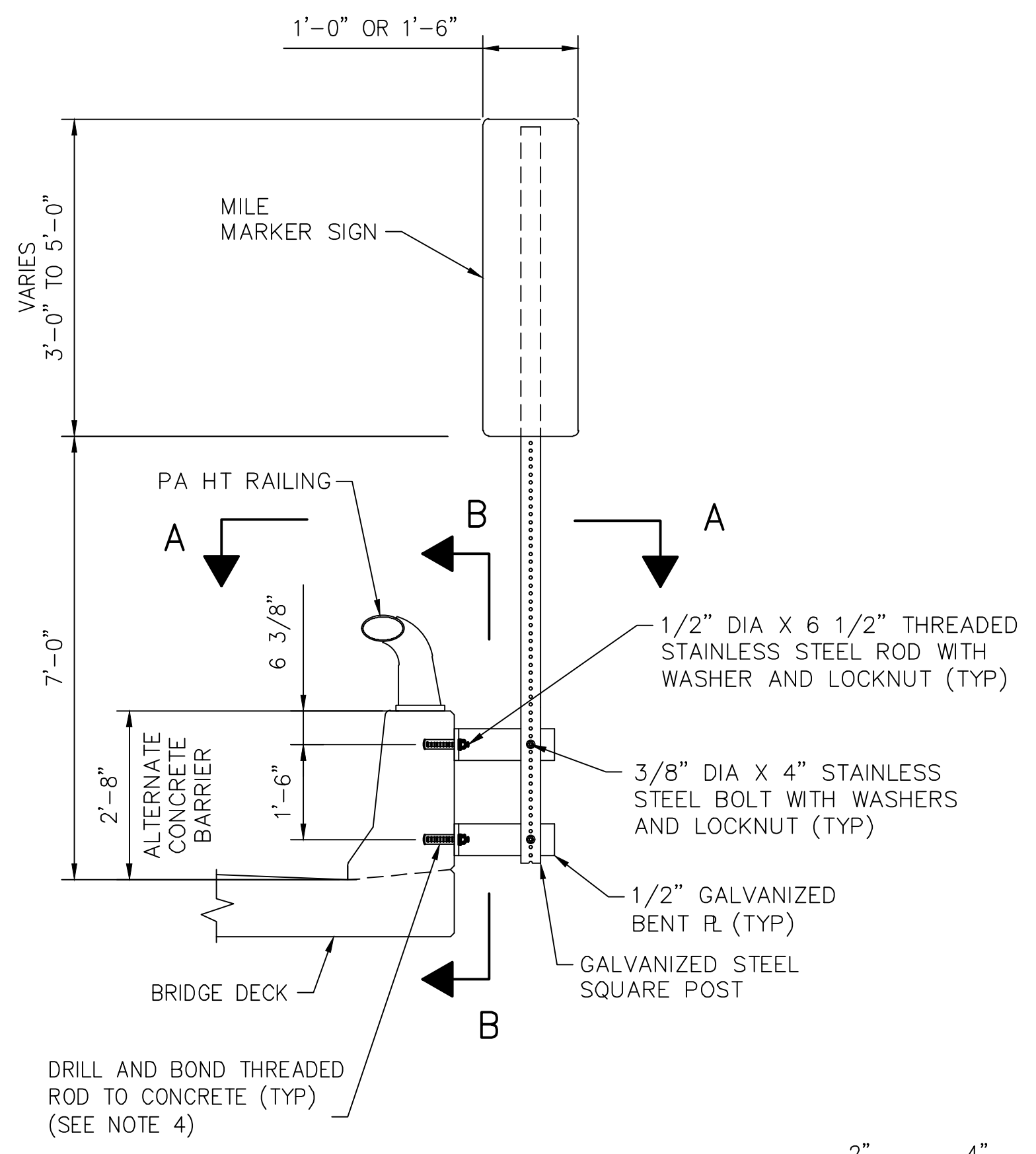
**PENNSYLVANIA TURNPIKE COMMISSION  
STANDARD DRAWING**

FILE NAME: PTS-980-31.dwg	SHEET 31 OF 40
DRAWING TYPE: 5A	
<b>DATE: DECEMBER 2019</b>	<b>PTS-980</b>

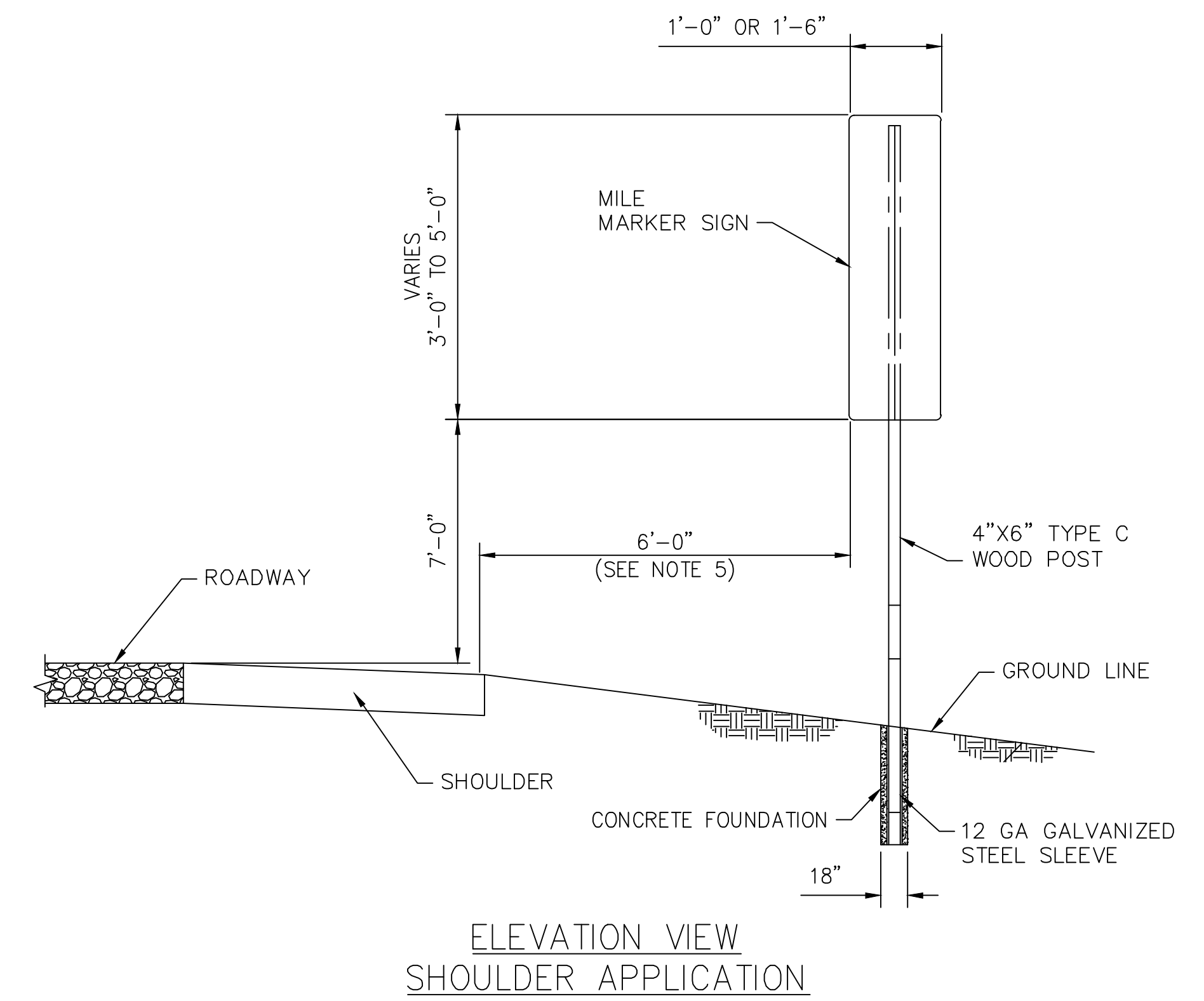




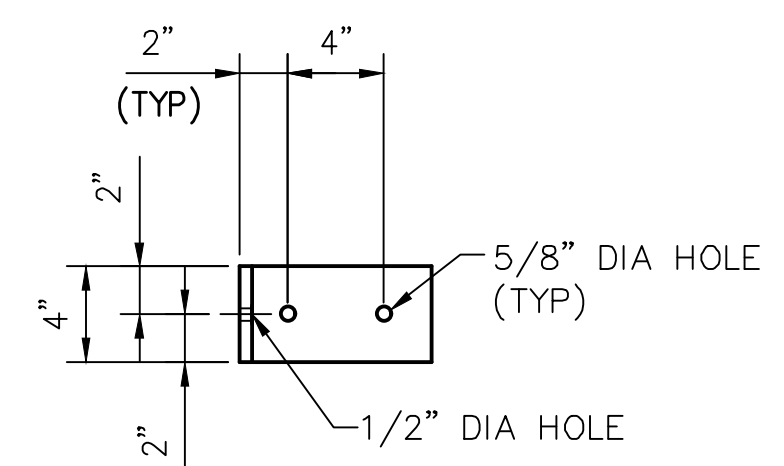
ELEVATION VIEW  
TYPICAL CONCRETE BARRIER



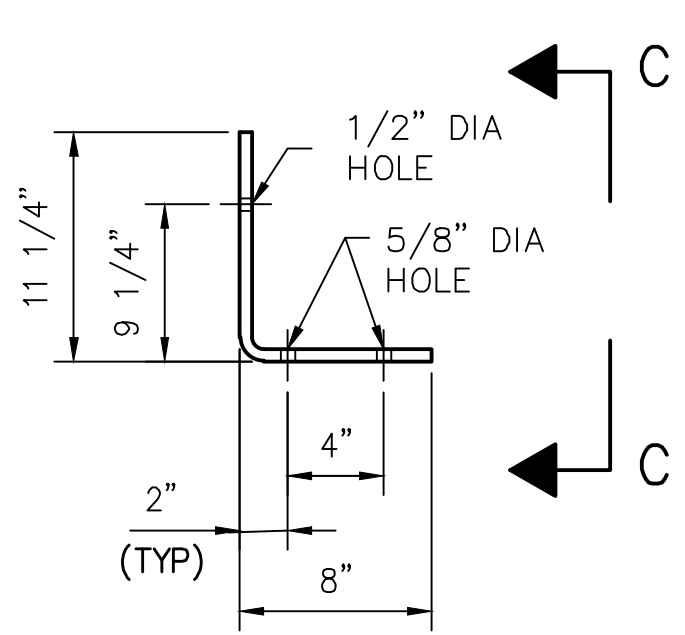
ELEVATION VIEW  
ALTERNATE CONCRETE BARRIER



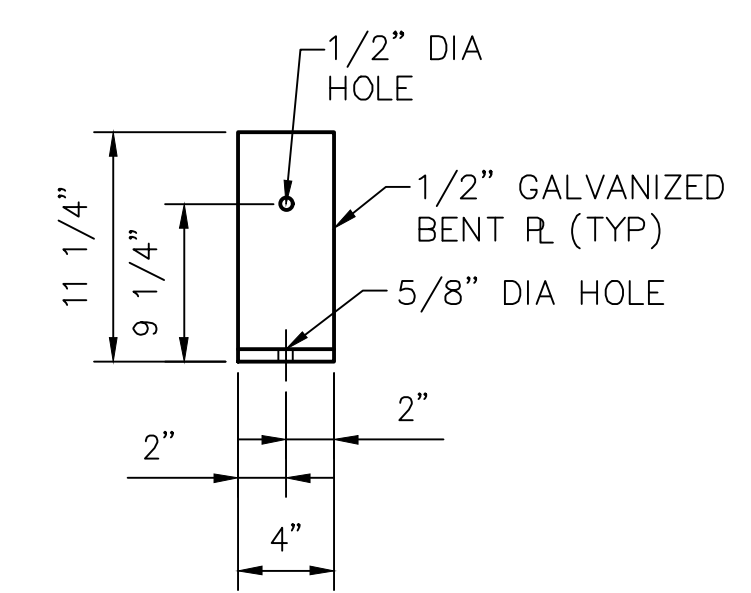
ELEVATION VIEW  
SHOULDER APPLICATION



PLAN

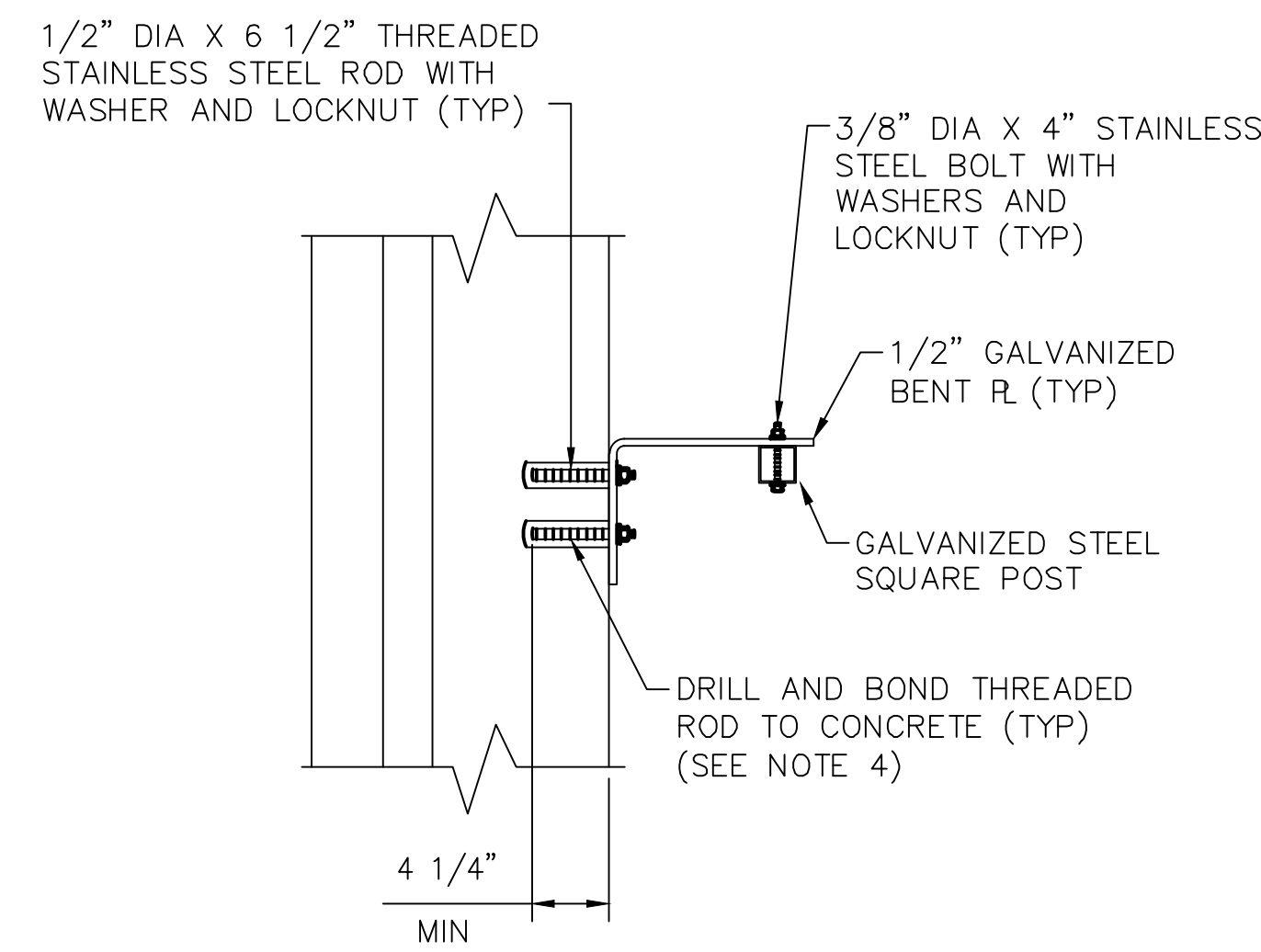


TYPICAL SECTION



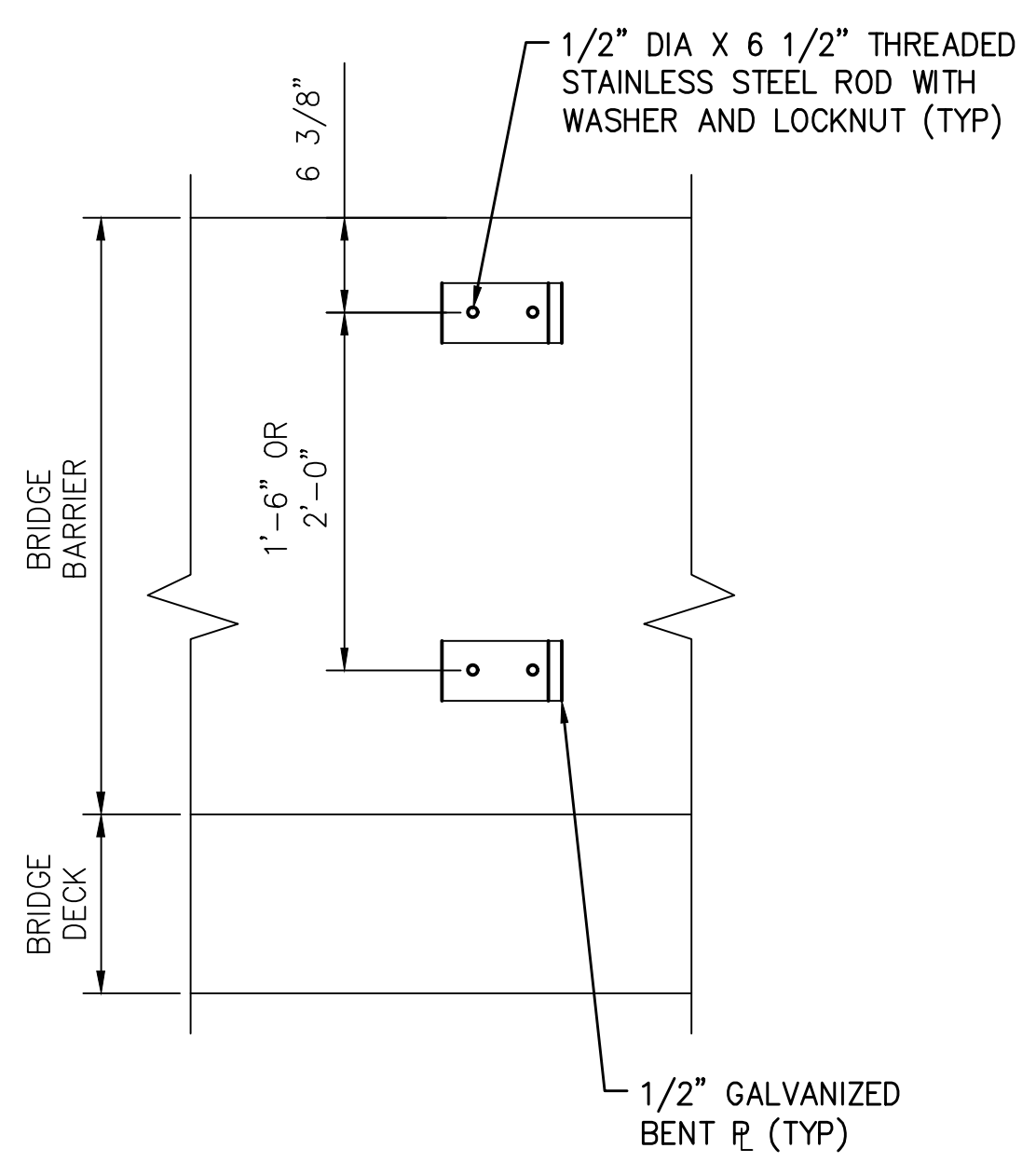
VIEW C-C

GALVANIZED BENT PLATE DETAIL



SECTION A-A

(RAILING NOT SHOWN FOR CLARITY)

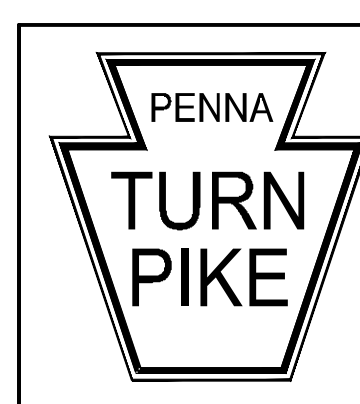


SECTION B-B

(RAILING NOT SHOWN FOR CLARITY)

NOTES:

- DO NOT INSTALL SIGNS LARGER OR AT AN ELEVATION HIGHER THAN INDICATED.
- DO NOT MOUNT SIGN DIRECTLY ABOVE ROADWAY LANE, SHOULDER, AND SIDEWALK LIMITS FOR BRIDGES WITH ROADWAYS UNDERNEATH. ADJUST SIGN LOCATION ACCORDINGLY.
- USE PACHOMETER OR OTHER APPROVED DETECTOR TO AVOID DRILLING THROUGH REBAR IN EXISTING CONCRETE BARRIER.
- MATERIALS:
  - PLATE: ASTM A709, GRADE 36, GALVANIZED
  - POST: 2 1/2" X 2 1/2" (10 GA.) GALVANIZED STEEL
  - BOLTS: ASTM F593, TYPE 304, CONDITION CW (F<sub>y</sub> = 65 KSI)
  - LOCKNUTS: ASTM 594
  - WASHERS: NYLON 1/8" THICK BY 1-INCH MINIMUM OUTSIDE DIAMETER WITH 480 INCH-POUNDS MAXIMUM ALLOWABLE APPLIED TORQUE
  - \* ANCHOR RODS: ASTM F593, TYPE 304, CONDITION CW (F<sub>y</sub> = 65 KSI)
  - \* ANCHORING SYSTEM: HVA ADHESIVE SYSTEM OR APPROVED EQUAL
  - \* AS MANUFACTURED BY HILTI FASTENING SYSTEMS. HAS RODS (ITEM NO 385464) AND HVU ADHESIVE CAPSULES (ITEM NO 256693), OR AN APPROVED EQUAL. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- WHEN GUIDERAIL IS PRESENT, A 2' TO 6' LATERAL CLEARANCE FROM BACK OF GUIDERAIL IS RECOMMENDED, AS SITE CONDITIONS PERMIT. A 1' LATERAL CLEARANCE IS PERMISSIBLE IF APPROVED BY THE REPRESENTATIVE.

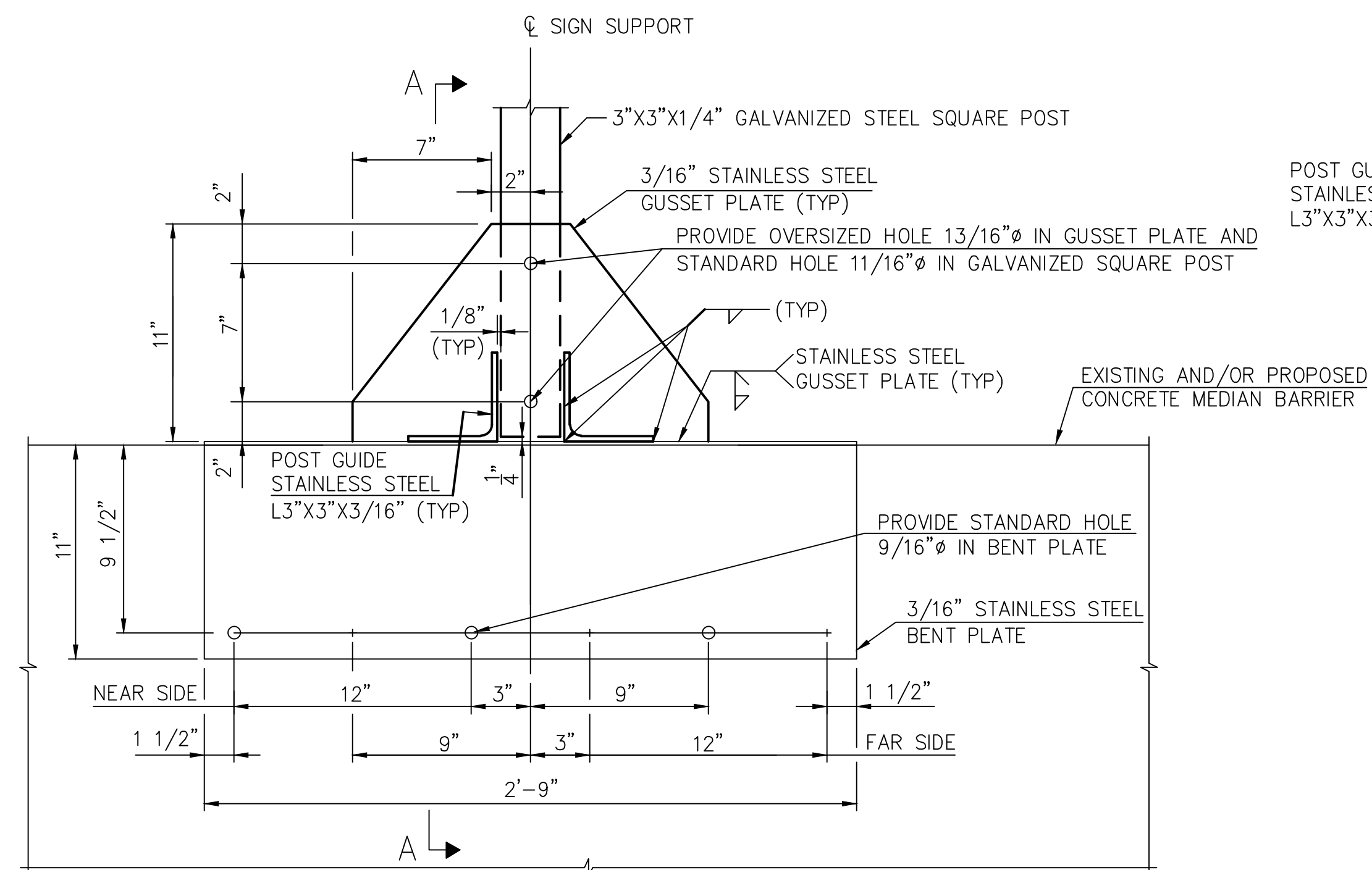


RECOMMENDED: DECEMBER 31, 2019  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
 CHIEF ENGINEER

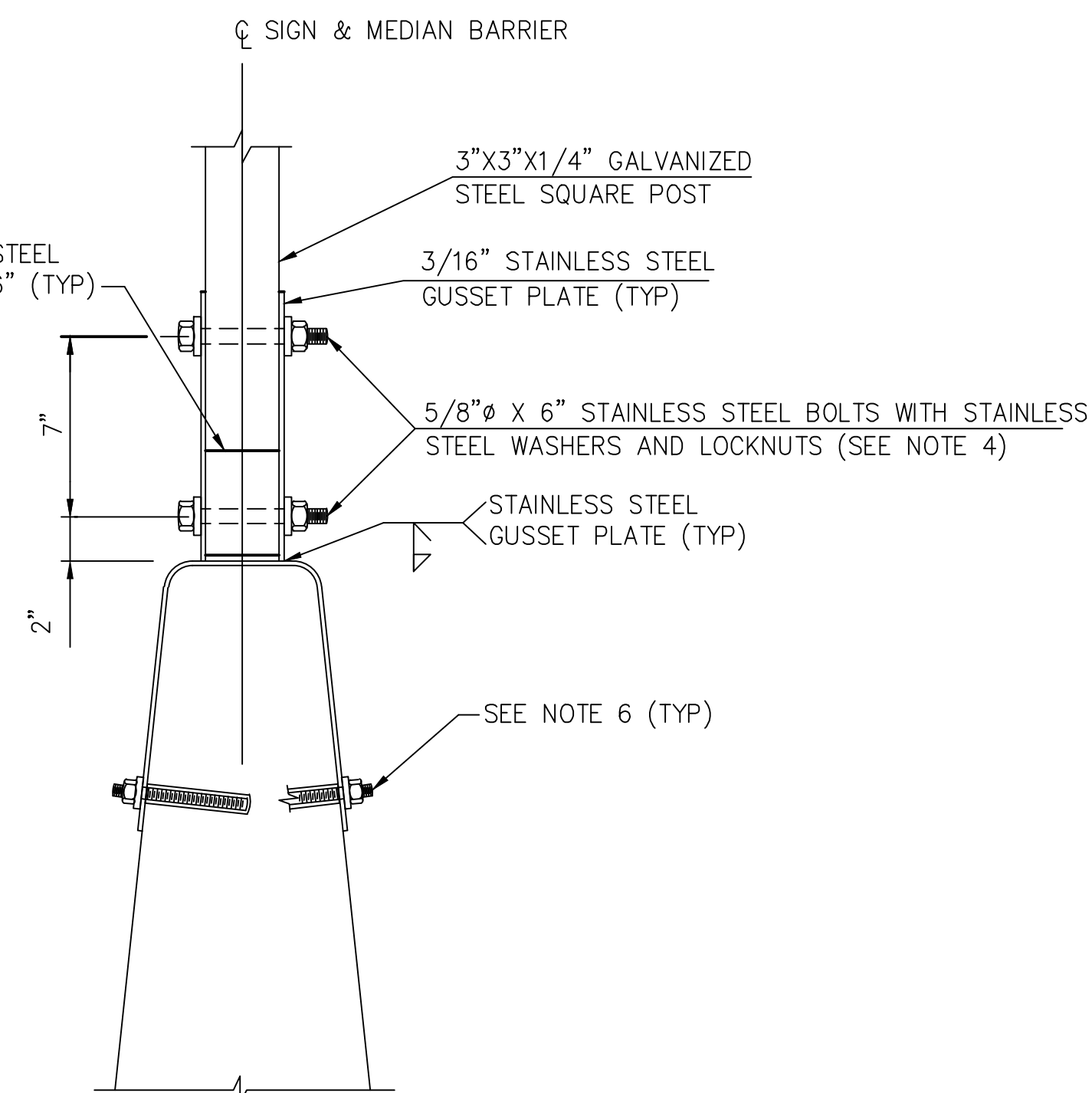
CONSTRUCTION AND MAINTENANCE  
 INSTALLATION OF MILE MARKER SIGNS  
 FOR  
 BRIDGE BARRIERS AND  
 SHOULDER APPLICATIONS

PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING  
 FILE NAME: PTS-980-32.dwg  
 DRAWING TYPE: 5A  
 SHEET 32 OF 40  
 DATE: DECEMBER 2019  
 PTS-980

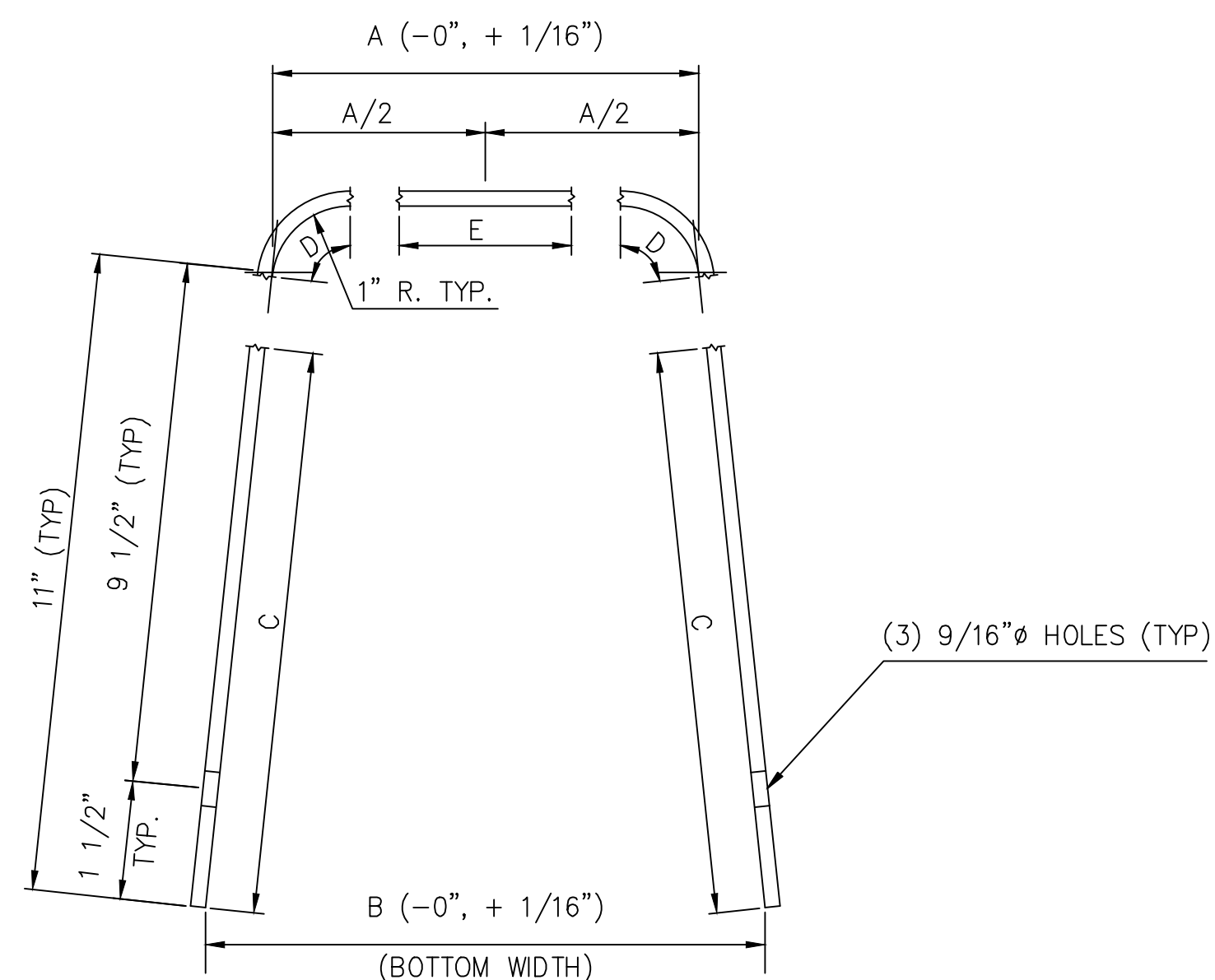




\* DIMENSIONS MEASURED ALONG FACE OF BARRIER  
**MEDIAN BARRIER SIGN SUPPORT DETAIL**



**SECTION A-A**

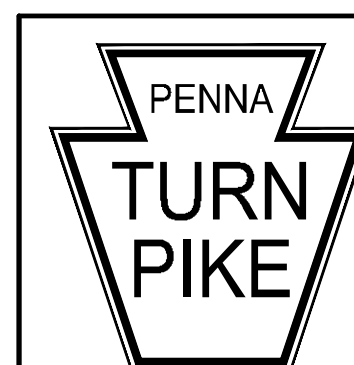


**BENT PLATE DIMENSIONS**

**NOTES:**

- INSTALL SIGN SUPPORTS NEAR THE CENTER OF PRECAST BARRIER SEGMENTS WITHIN A MAXIMUM DISTANCE OF 3'-0" MEASURED TO EACH SIDE OF THE SEGMENT CENTERLINE.
- DO NOT INSTALL SIGNS LARGER OR AT AN ELEVATION HIGHER THAN INDICATED. DO NOT PLACE SIGNS ON SLOPING TRANSITION SECTIONS BETWEEN BARRIERS OF DIFFERENT HEIGHT.
- FURNISH WELDS IN ACCORDANCE WITH AWS D1.6:2017 STRUCTURAL WELDING CODE FOR STAINLESS STEEL.
- MATERIALS:**  
**STAINLESS STEEL:**  
 PLATE: ASTM A240, TYPE 304, 2B FINISH (F<sub>y</sub>=30 KSI MIN.)  
 BOLTS: ASTM F593, TYPE 304, CONDITION CW1 (F<sub>y</sub>=65 KSI)  
 NUTS: ASTM F594  
 WASHERS: ASTM F436, TYPE 304  
**GALVANIZED STEEL SQUARE POST:**  
 COLD ROLLED STEEL WITH A MINIMUM YIELD STRENGTH OF 50 KSI MEETING THE CHEMICAL AND MECHANICAL REQUIREMENT OF ASTM A500.
- DIMENSIONS OF BARRIER IN CHART TO BE FIELD VERIFIED PRIOR TO FABRICATION OF SIGN SUPPORT.
- PERMANENT SIGN INSTALLATIONS** - PROVIDE HILTI ANCHOR ROD HAS-R 1/2" X 6-1/2" SS304 (ITEM NO. 385464) AND HILTI ADHESIVE CAPSULE HVU 1/2" X 4-1/4" (ITEM NO. 256693) EMBEDDED 4-1/4" MIN. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

TYPE	BARRIER DIMENSIONS			PLATE DIMENSIONS						REMARKS
	W	H	SS	A = W+1/4"	B	C	D	E	PLATE SIZE	
1	6"	34"	9.5"	6 1/4"	8 9/16"	10 1/16"	1 7/16"	4 7/16"	27 7/16" x 1'-9"	34" JERSEY BARRIER
2	9"	34"	8.8"	9 1/4"	11 3/4"	10 1/16"	1 7/16"	7 7/16"	30 7/16" x 1'-9"	34" F-SHAPE BARRIER
3A	5" MIN.-5 1/2" MAX.	48"	9.5"	5 1/4" MIN.-5 3/4" MAX.	7 9/16" MIN.-8 1/16" MAX.	10 1/16"	1 7/16"	3 7/16" MIN.-3 15/16" MAX.	26 7/16" MIN.-26 15/16" MAX. x 1'-9"	48" JERSEY BARRIER
3B	4 1/2" MIN.-5" MAX.	48"	9.5"	4 3/4" MIN.-5 1/4" MAX.	7 1/16" MIN.-7 9/16" MAX.	10 1/16"	1 7/16"	2 15/16" MIN.-3 7/16" MAX.	25 15/16" MIN.-26 7/16" MAX. x 1'-9"	48" JERSEY BARRIER
4	4" MIN.-6" MAX.	52"	9.5"	4 1/4" MIN.-6 1/4" MAX.	6 9/16" MIN.-8 9/16" MAX.	10 1/16"	1 7/16"	2 7/16" MIN.-4 7/16" MAX.	25 7/16" MIN.-27 7/16" MAX. x 1'-9"	52" JERSEY BARRIER
5	5"	52"	8.9"	5 1/4"	7 11/16"	10 1/16"	1 7/16"	3 7/16"	26 7/16" x 1'-9"	52" F-SHAPE BARRIER



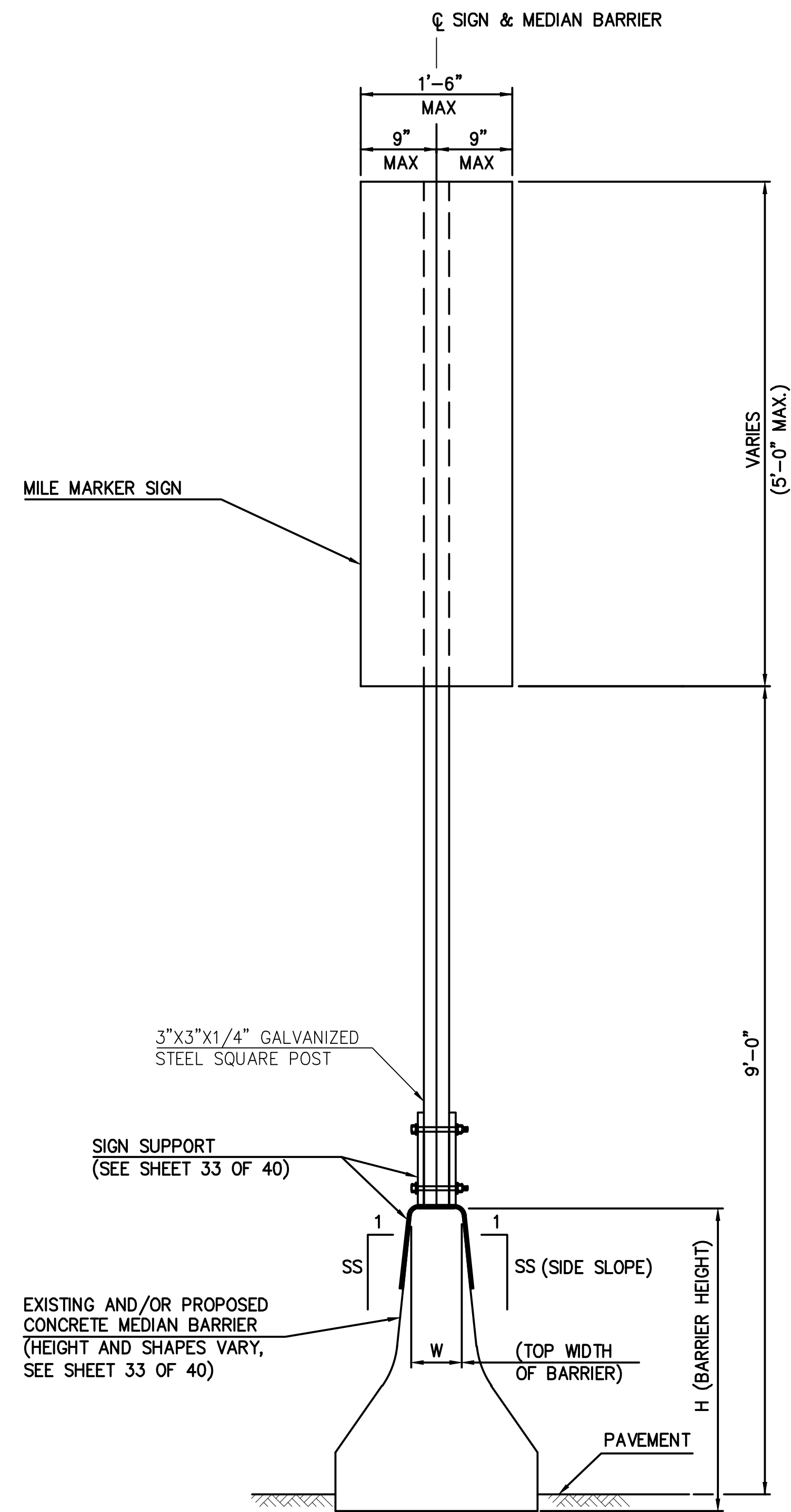
RECOMMENDED: DECEMBER 31, 2019  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
 CHIEF ENGINEER

**CONSTRUCTION AND MAINTENANCE  
 INSTALLATION OF  
 MEDIAN BARRIER SUPPORT FOR SIGNS**

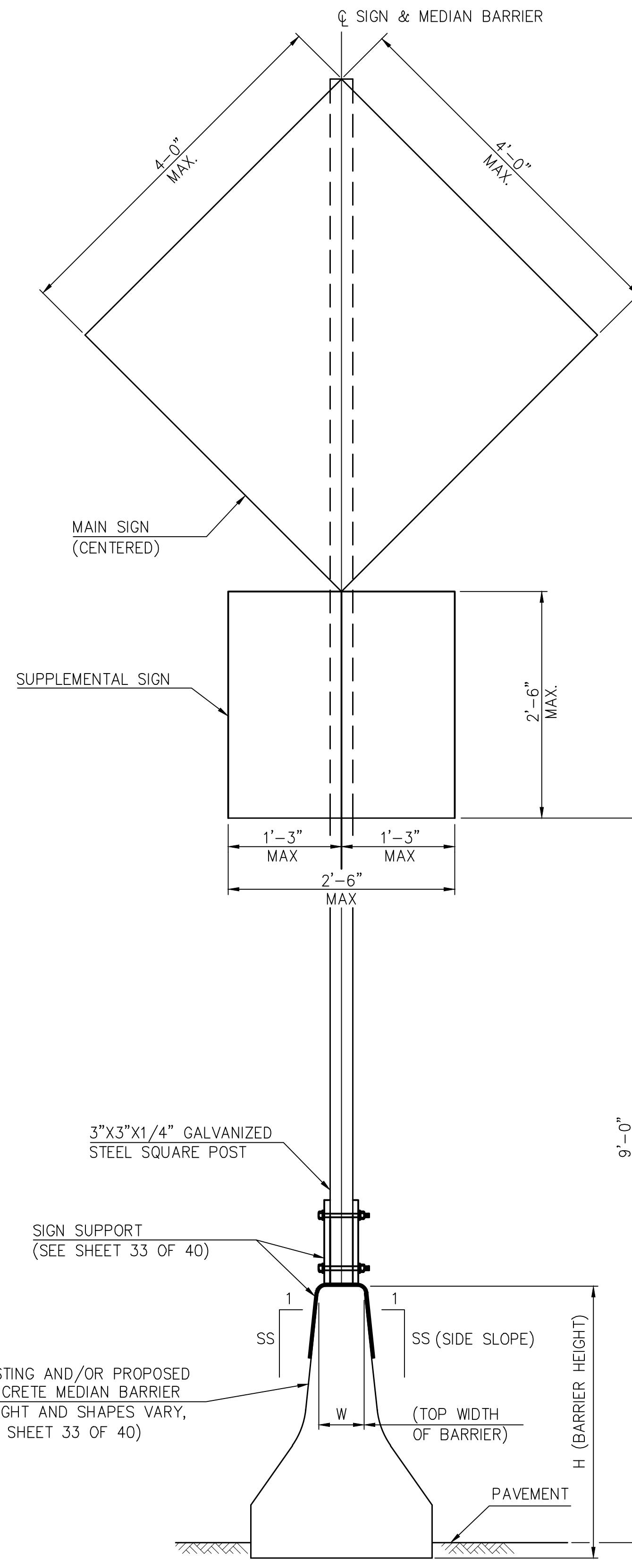
**PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING**

FILE NAME: PTS-980-33.dwg  
 DRAWING TYPE: 5A  
 SHEET 33 OF 40

DATE: DECEMBER 2019  
 PTS-980

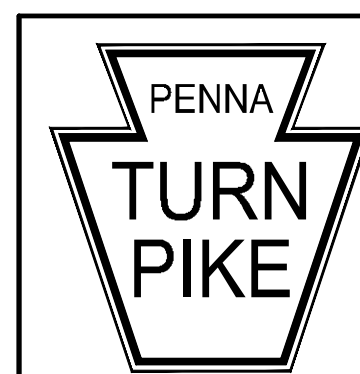


**MEDIAN MILE MARKER SIGNS**  
 MAX SIGN AREA = 7.55 SF



**PERMANENT MEDIAN SIGNS**  
 MAX SIGN AREA = 22.25 SF

- NOTES:**  
 1. FOR NOTES, SEE SHEET 33 OF 40.



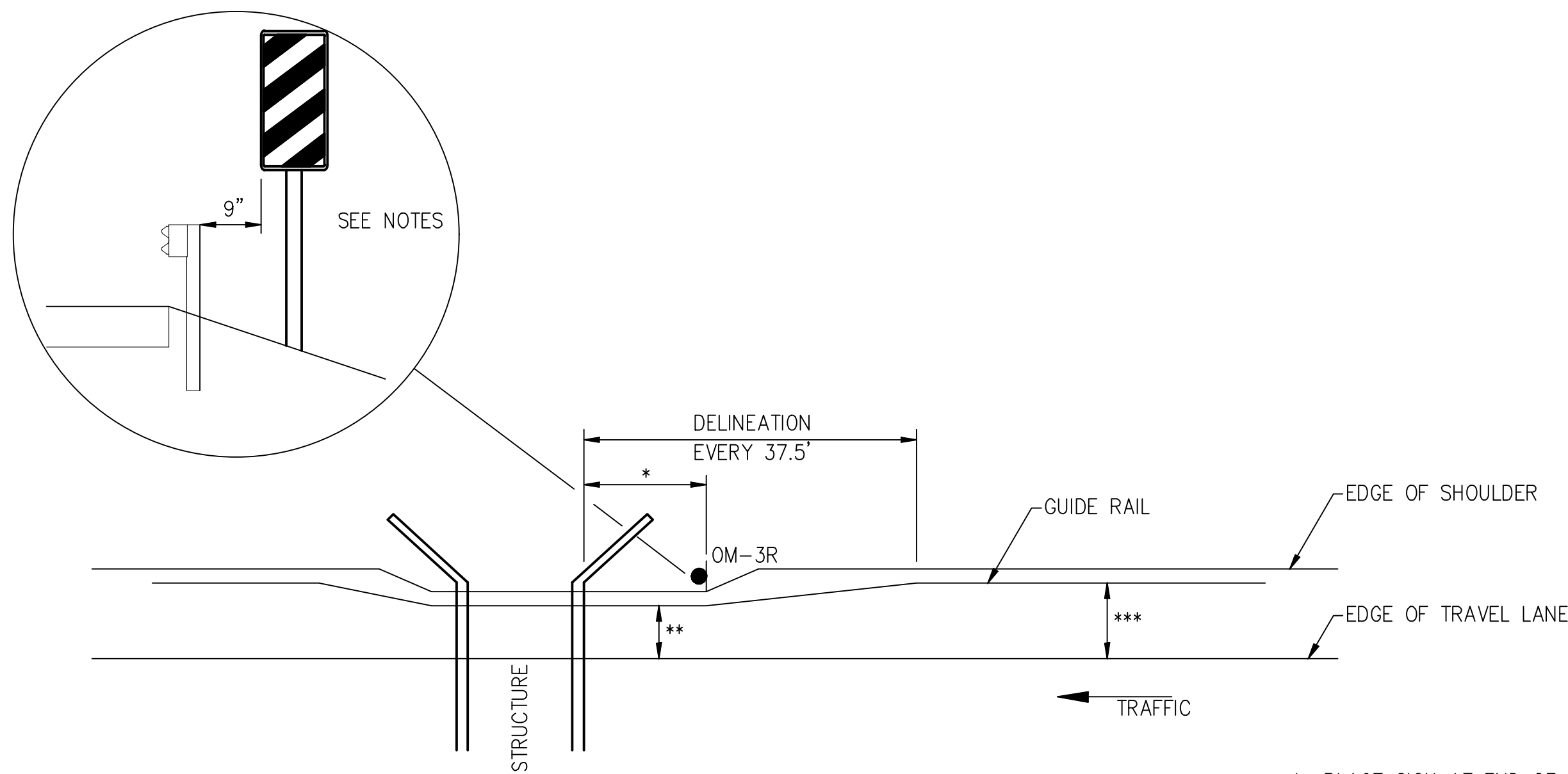
RECOMMENDED: DECEMBER 31, 2019  
*Gary L. Smith*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

**CONSTRUCTION AND MAINTENANCE  
 INSTALLATION OF  
 MEDIAN BARRIER SUPPORT FOR SIGNS**

**PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING**

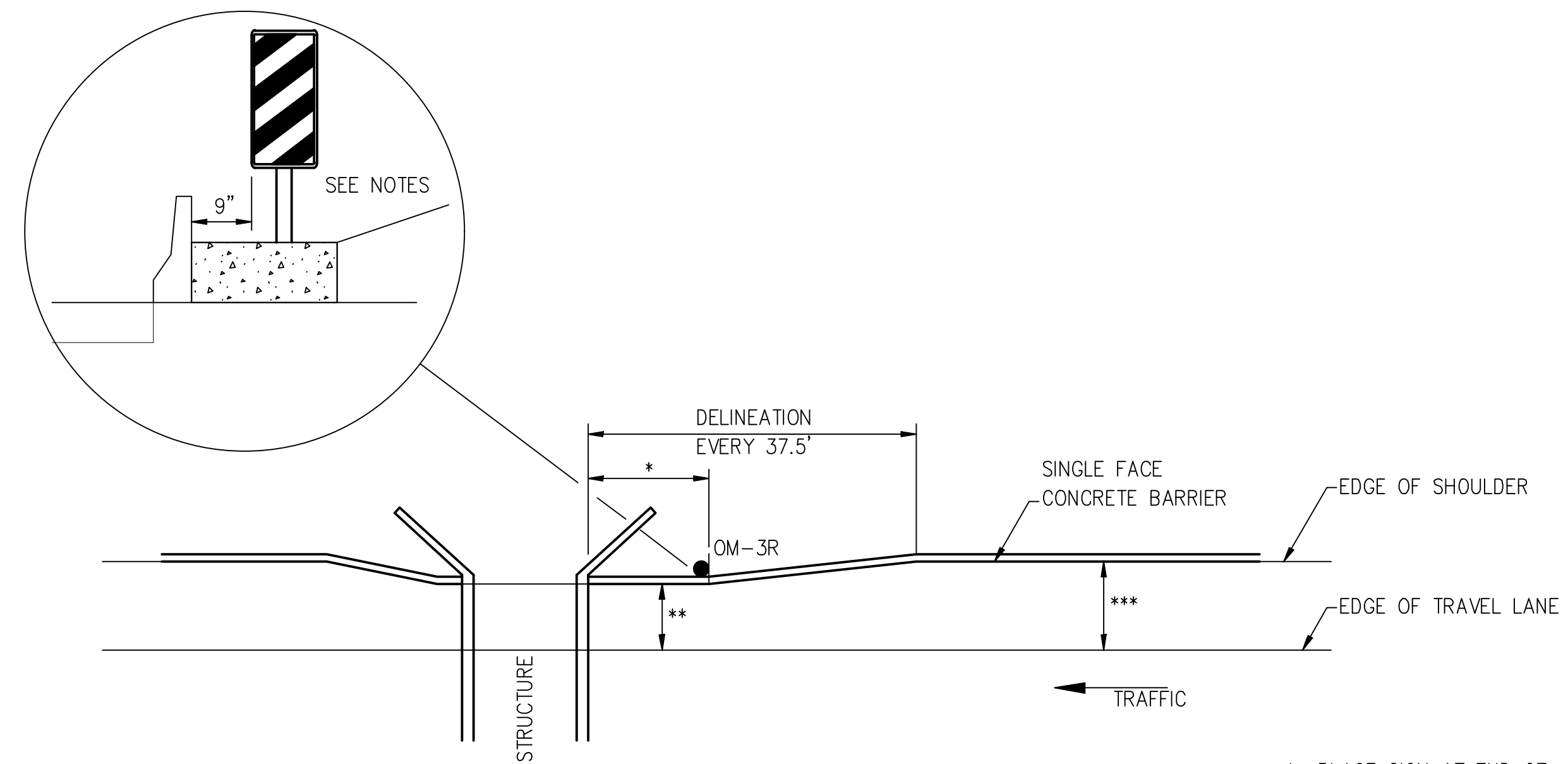
FILE NAME: PTS-980-34.dwg SHEET 34 OF 40  
 DRAWING TYPE: 5A

DATE: DECEMBER 2019 PTS-980



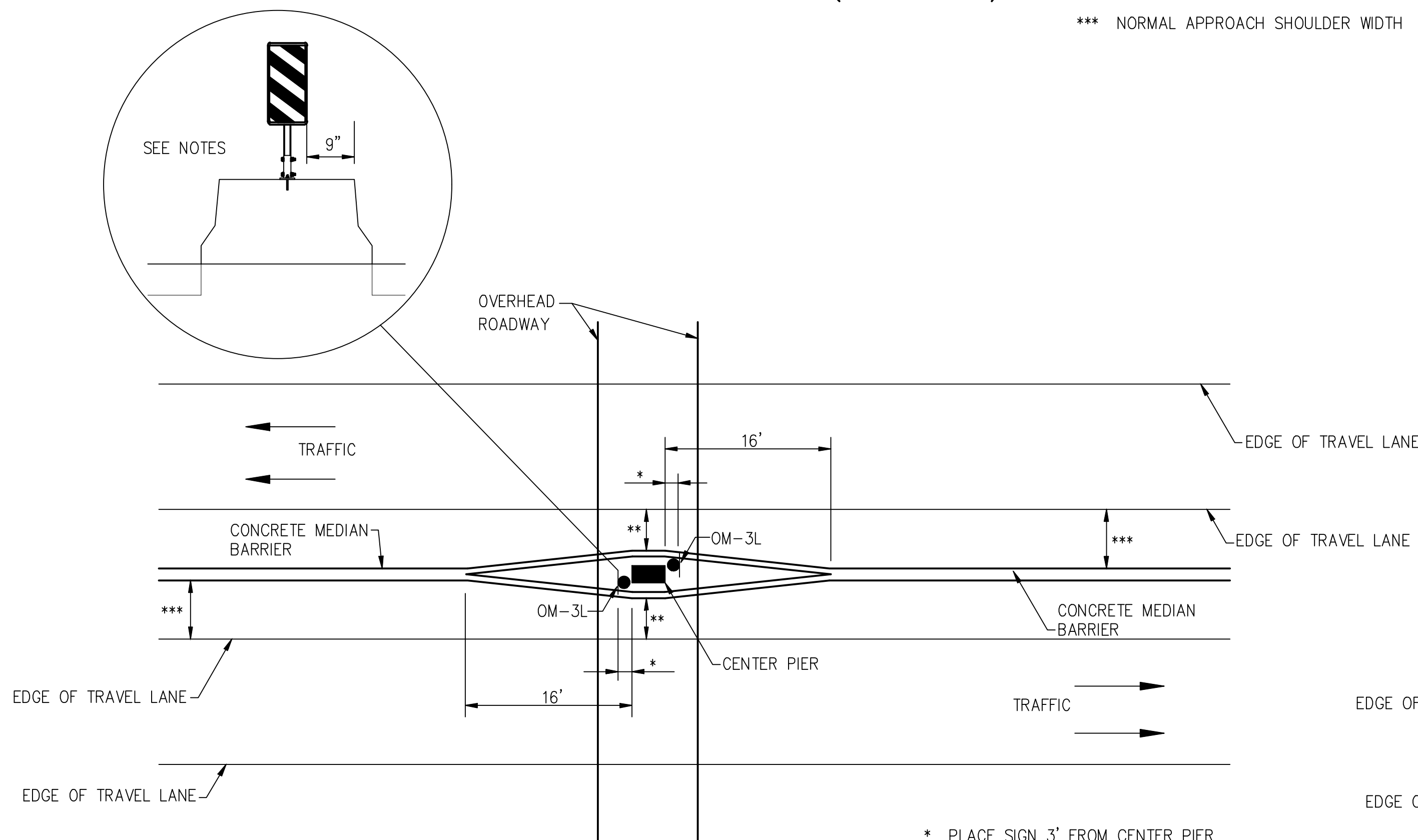
**NARROW SHOULDER DELINEATION (GUIDE RAIL)**

- \* PLACE SIGN AT END OF TAPER (50' TYP)
- \*\* LESS THAN NORMAL APPROACH SHOULDER WIDTH
- \*\*\* NORMAL APPROACH SHOULDER WIDTH



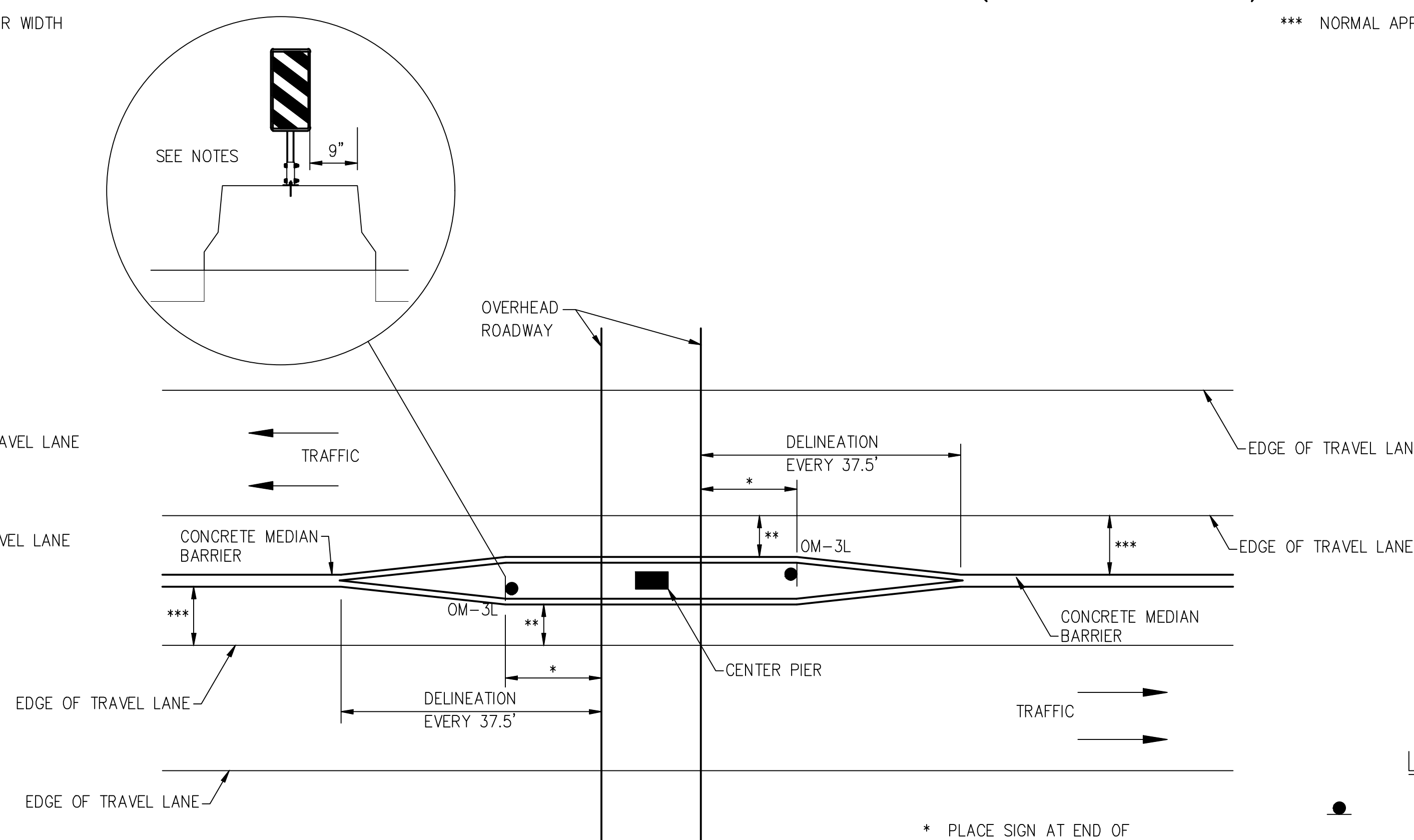
**NARROW SHOULDER DELINEATION (CONCRETE BARRIER)**

- \* PLACE SIGN AT END OF TAPER (6' TO 50' TYP)
- \*\* LESS THAN NORMAL APPROACH SHOULDER WIDTH
- \*\*\* NORMAL APPROACH SHOULDER WIDTH



**NARROW MEDIAN DELINEATION (PIER TRANSITION PIECE)**

- \* PLACE SIGN 3' FROM CENTER PIER
- \*\* LESS THAN NORMAL APPROACH SHOULDER WIDTH
- \*\*\* NORMAL APPROACH SHOULDER WIDTH



**NARROW MEDIAN DELINEATION (CONCRETE MEDIAN BARRIER)**

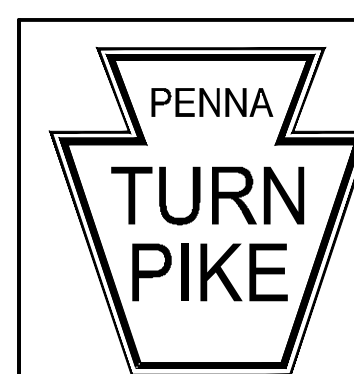
- \* PLACE SIGN AT END OF TAPER (6' TO 50' TYP)
- \*\* LESS THAN NORMAL APPROACH SHOULDER WIDTH
- \*\*\* NORMAL APPROACH SHOULDER WIDTH

**LEGEND**

- SIGN & SUPPORT
- GUIDE RAIL
- ▬ CONCRETE BARRIER (MEDIAN OR SINGLE FACE)
- TRAFFIC FLOW
- ▨ NO 57 COARSE AGGREGATE

**NOTES:**

- 1) MOUNT BOTTOM OF SIGN 18" FROM TOP OF GUIDE RAIL TO BOTTOM OF THE SIGN, 13" FROM TOP OF 34" CONCRETE BARRIER TO BOTTOM OF THE SIGN, 10" FROM TOP OF 48" CONCRETE BARRIER TO BOTTOM OF THE SIGN, 6" FROM TOP OF 52" CONCRETE BARRIER TO BOTTOM OF THE SIGN.
- 2) FOR BARRIER MOUNTING, UTILIZE RETAINING WALL/SINGLE FACE BARRIER MOUNTING DETAIL, SEE SHEET 30 OF 40.



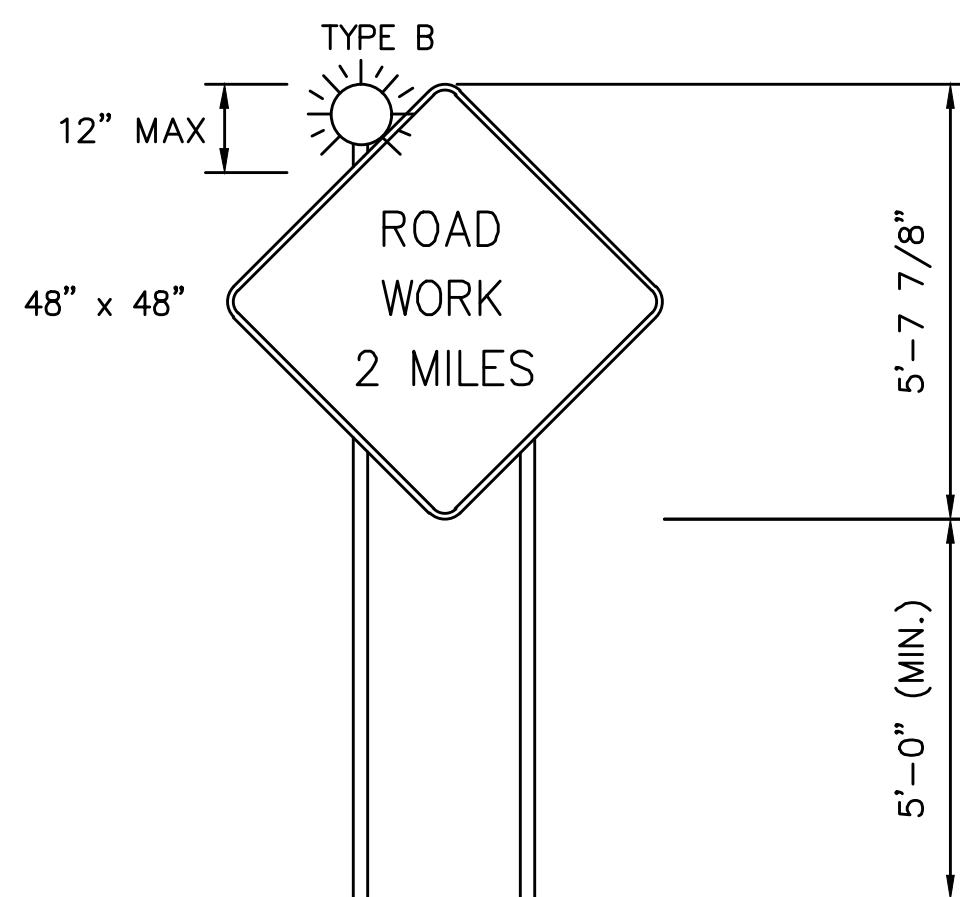
RECOMMENDED: DECEMBER 31, 2019  
*Gayle S. Johnson*  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
*[Signature]*  
 CHIEF ENGINEER

**CONSTRUCTION AND MAINTENANCE  
 CLEARANCE MARKER (OM-3R AND OM-3L)  
 LOCATION INSTALLATION DETAILS**

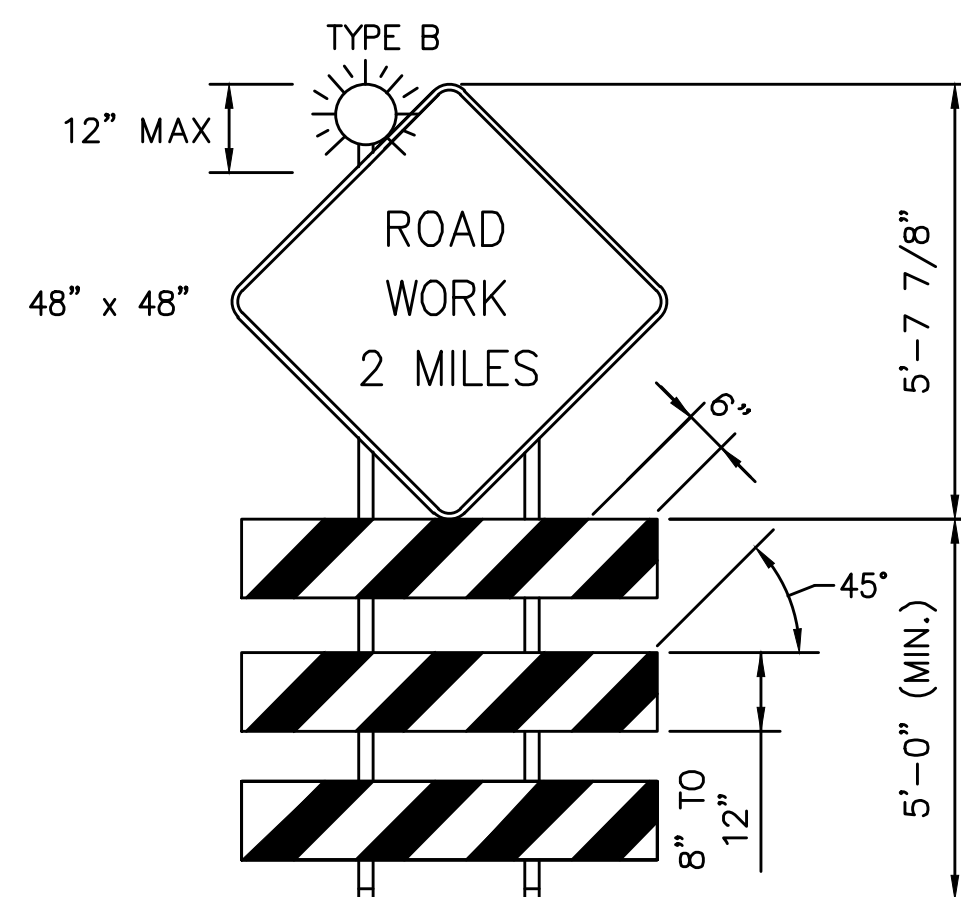
**PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING**

FILE NAME: PTS-980-35.dwg SHEET 35 OF 40  
 DRAWING TYPE: 5A  
 DATE: DECEMBER 2019 PTS-980

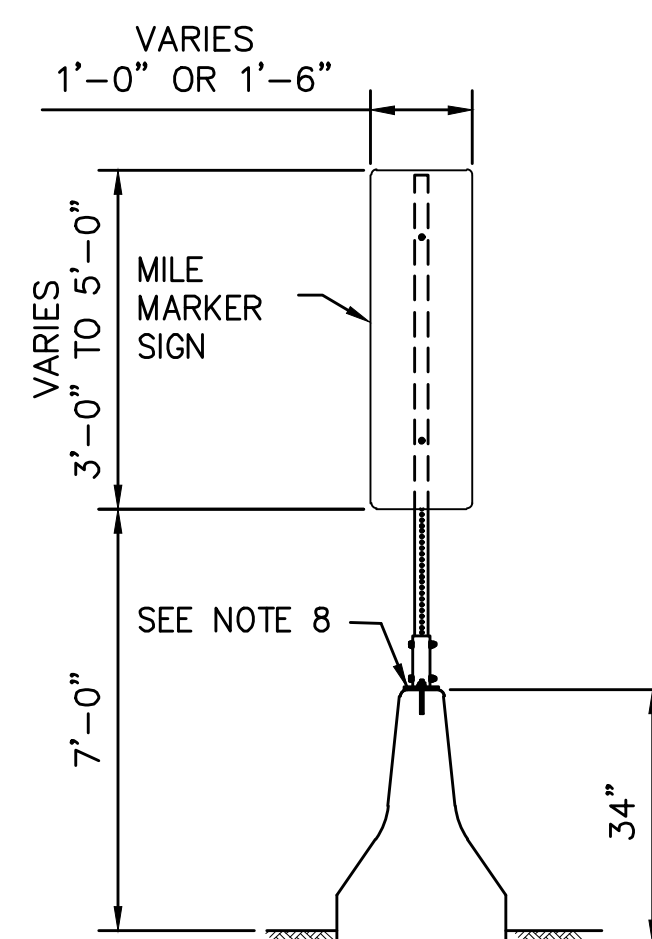
**TYPICAL TEMPORARY SIGN INSTALLATION**



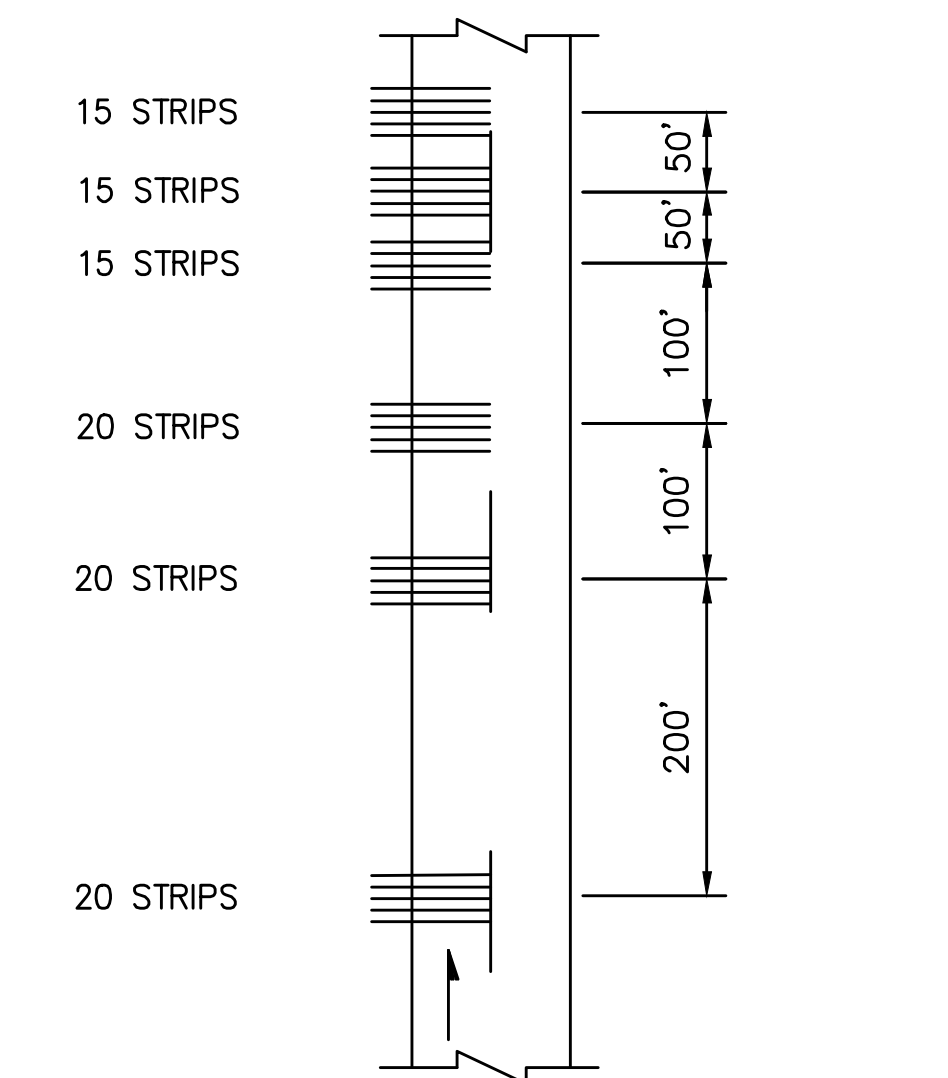
TYPICAL SHOULDER POST MOUNTED



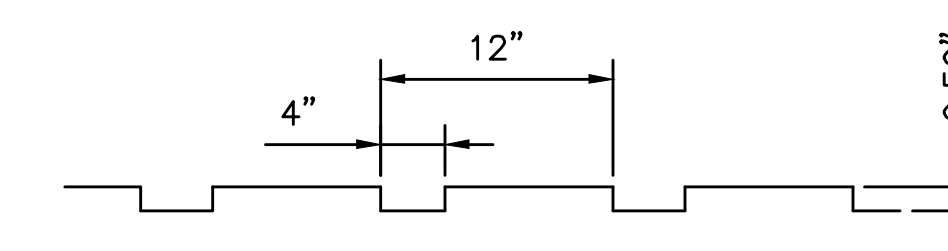
TYPICAL PAVED SHOULDER/ROADWAY TYPE III BARRICADE



TYPICAL TEMPORARY CONCRETE BARRIER SUPPORT FOR MILE MARKER SIGNS



RUMBLE STRIP PATTERN

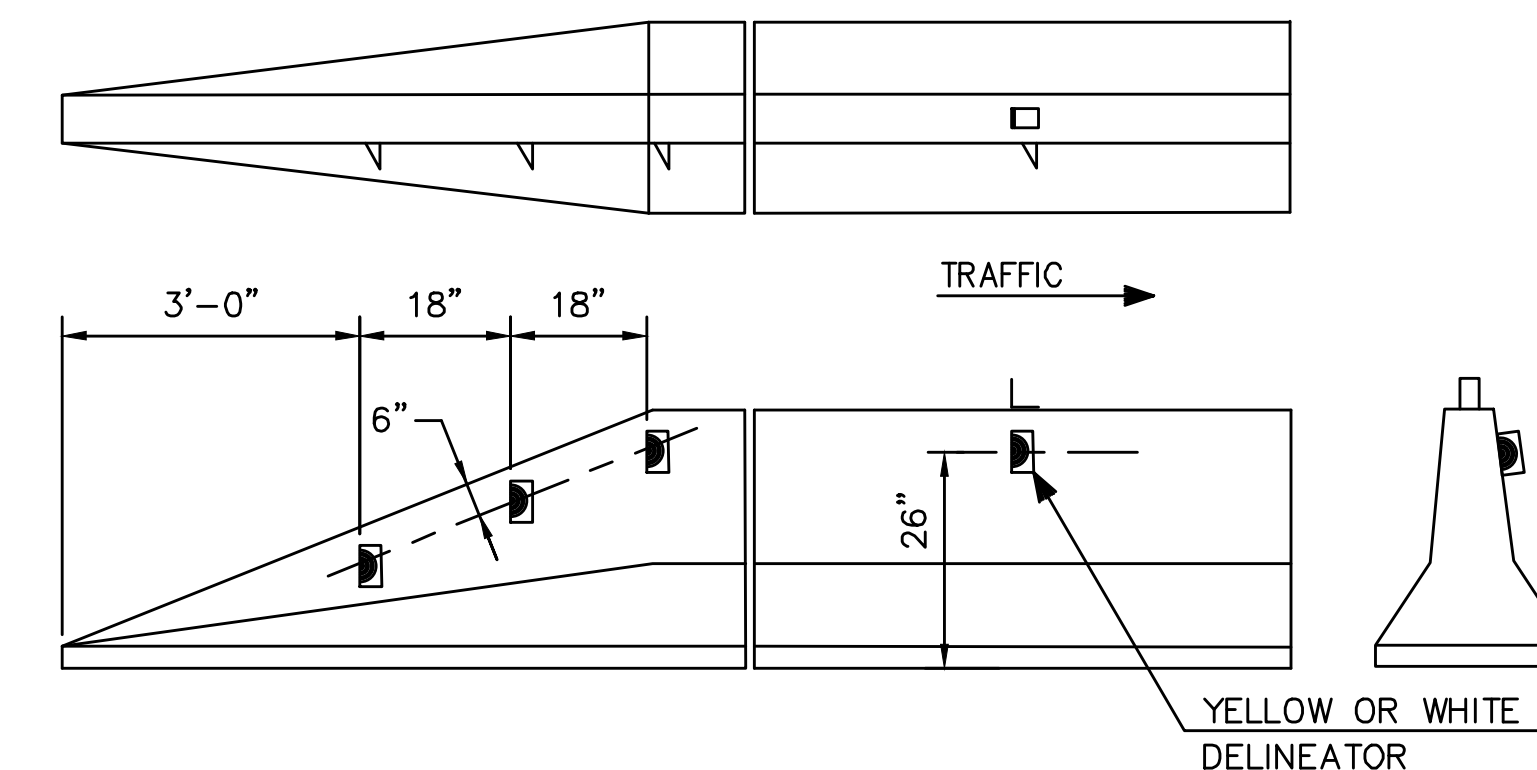


RUMBLE STRIP LONGITUDINAL CROSS SECTION

**RUMBLE STRIP DETAIL**

NOTES:

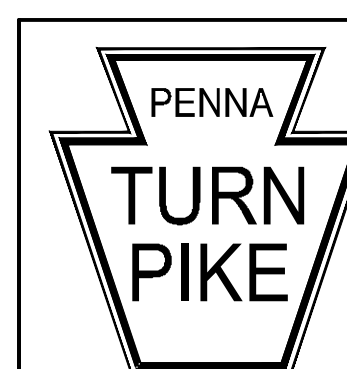
- DISTANCE BETWEEN THE SIGN AND BARRICADE MAY VARY.
- ALL SHOULDER SIGNS ARE TO BE POST MOUNTED OFF THE PAVED SHOULDER AS PER PENNDOT TC-8700 UNLESS CONDITIONS WARRANT OTHERWISE.
- THE LENGTH OF BARRICADE MAY NOT EQUAL OR EXCEED THE WIDEST HORIZONTAL DIMENSION OF THE WIDEST SIGN INSTALLED ON THE BARRICADE.
- BATTERY CASE MUST BE PLACED EITHER ON THE GROUND OR ATTACHED 20" MAXIMUM ABOVE THE GROUND DIRECTLY TO THE POST OR BASE LEG.
- PLACE SANDBAG BALLAST OR EQUAL ON BASE AS INDICATED OR DIRECTED TO REDUCE MOVEMENT DUE TO WIND.
- USE PENNDOT APPROVED TYPE XI REFLECTORIZED MATERIAL FOR BARRICADE RAILS.
- TYPE B LIGHT IS TO BE MOUNTED ON THE TOP OF THE POST CLOSEST TO TRAFFIC.
- PROVIDE AND INSTALL CONCRETE BARRIER SUPPORT AS INDICATED IN SHEET 30 OF 40. DO NOT USE WITH SIGN AREA LARGER THAN 7.5 SQUARE FEET. DO NOT USE WITH SIGNS MOUNTED HIGHER THAN 7 FEET TO BOTTOM OF SIGN PANEL. DO NOT USE WITH BARRIER TALLER THAN 34".
- SIGNS SHALL REMAIN IN THE VERTICAL POSITION WHEN LOCATED WITHIN THE TURNPIKE RIGHT-OF-WAY.



NOTES:

- PLACE ONE (1) YELLOW OR WHITE DELINEATOR ON THE SIDE AND ON THE TOP OF THE BARRIER AT THE MIDPOINT OF EACH CONCRETE BARRIER SECTION, FACING TRAFFIC UNLESS PERMANENT BARRIER IS USED IN CONSTRUCTION. FOR PERMANENT BARRIER USED IN CONSTRUCTION, INSTALL DELINEATORS AT FINAL SPACING.
- FOR SINGLE FACE CONCRETE BARRIER, INSTALL DELINEATORS AS DESCRIBED IN #1 ABOVE.

**PLACING OF DELINEATORS ON TEMPORARY CONCRETE BARRIER**



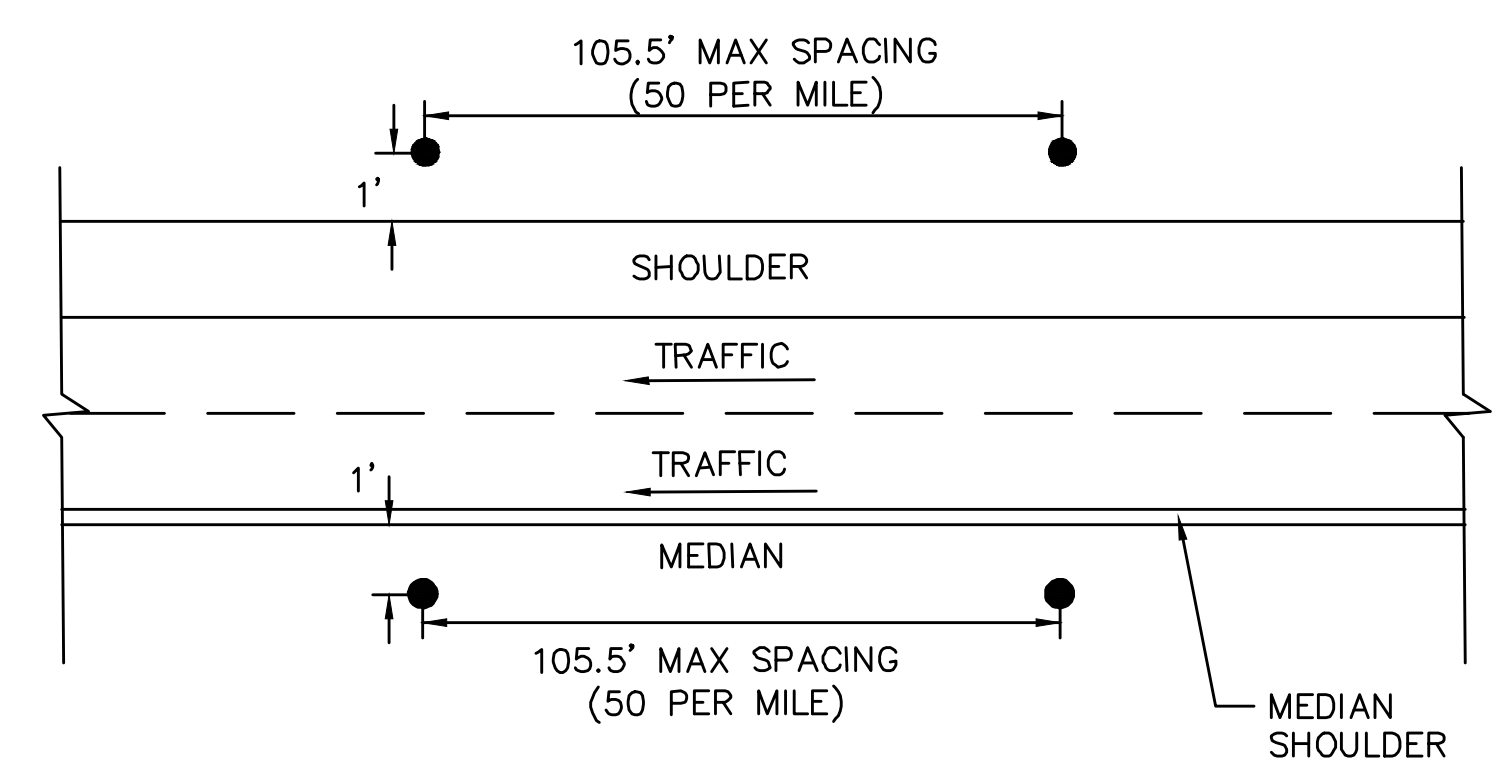
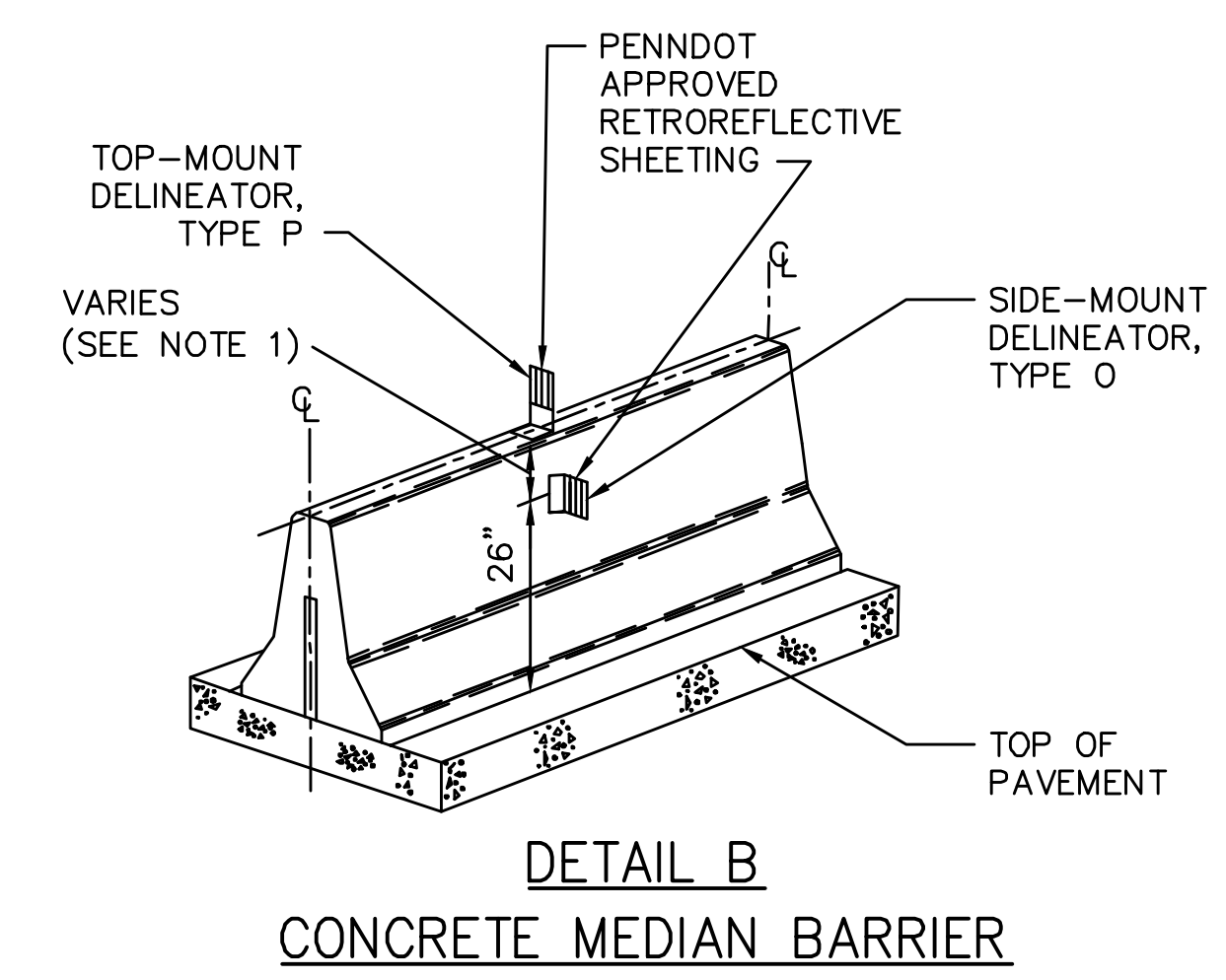
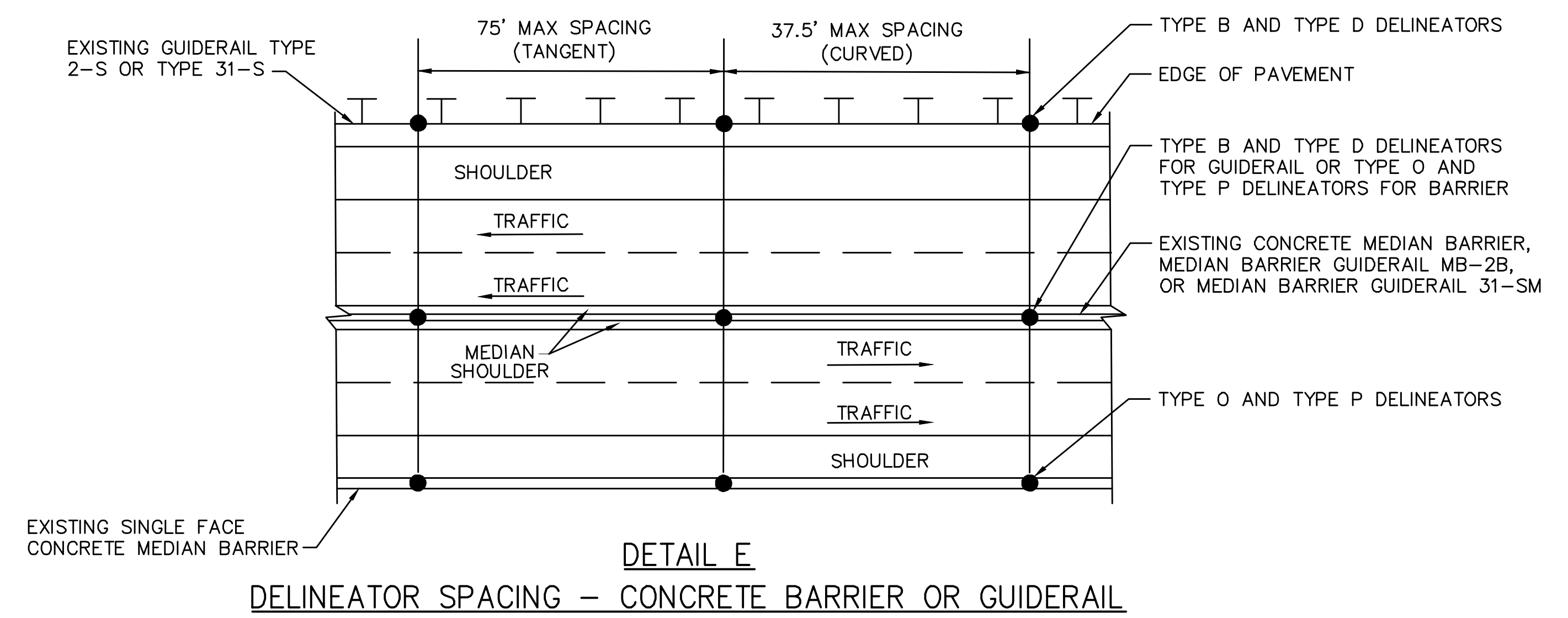
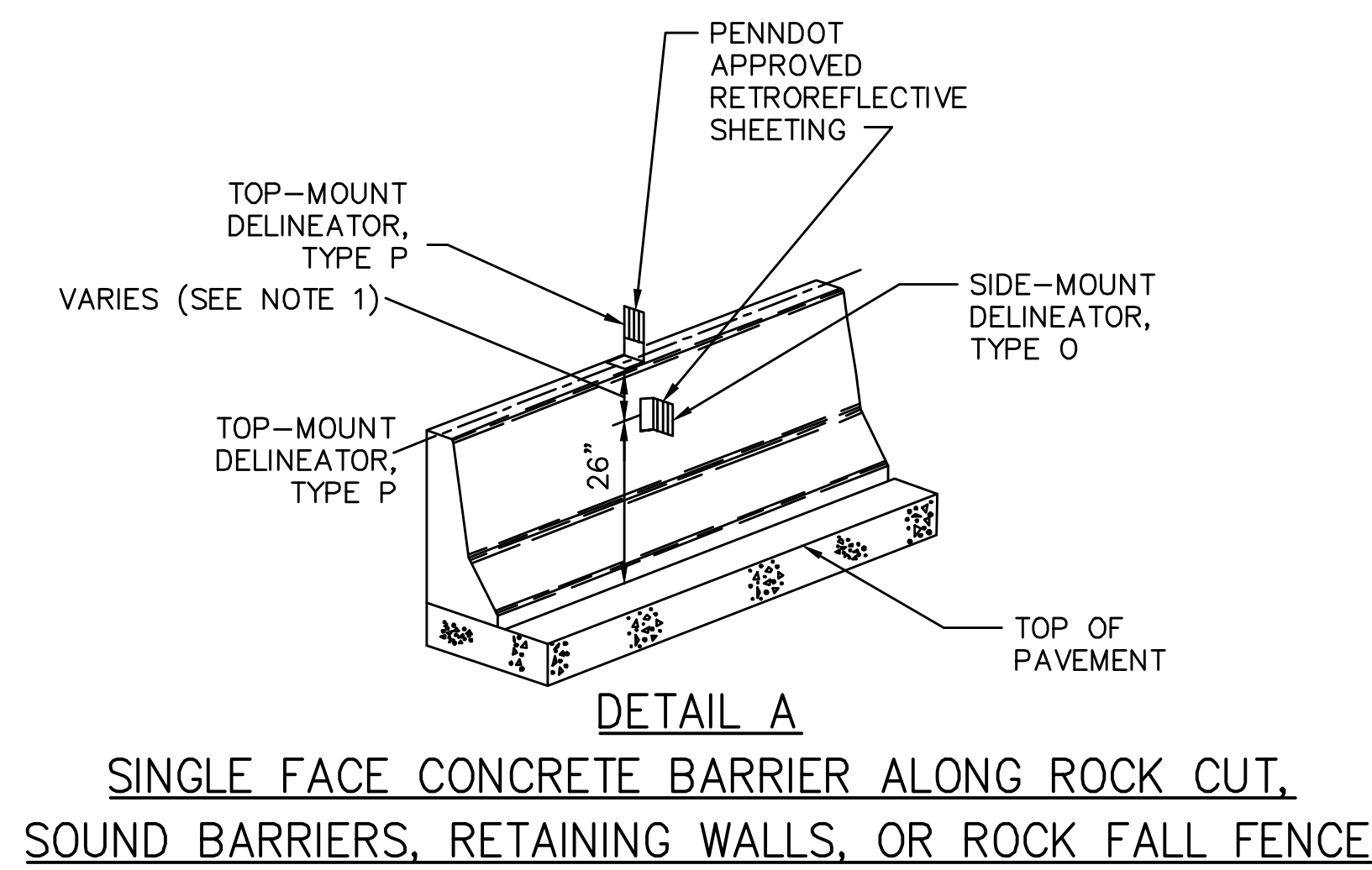
RECOMMENDED: DECEMBER 31, 2019  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE  
 MISCELLANEOUS DETAILS

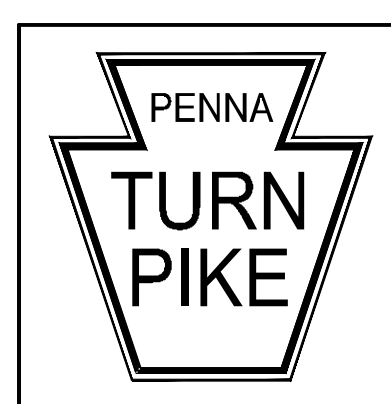
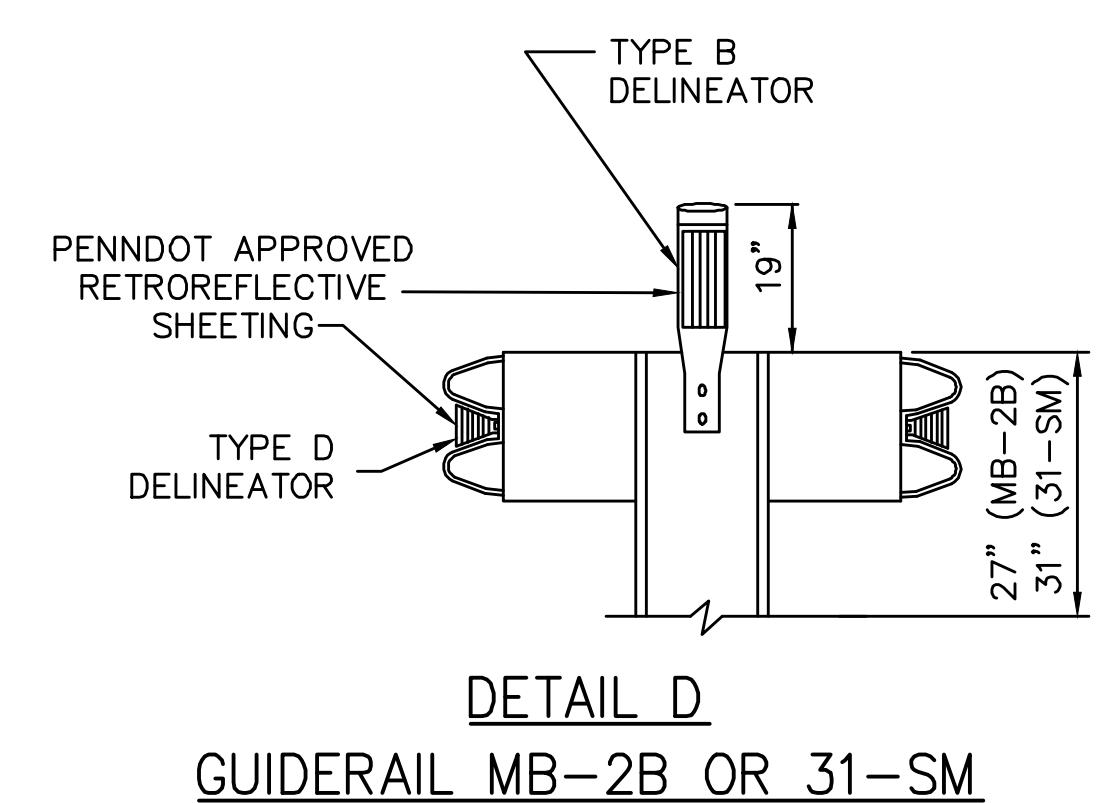
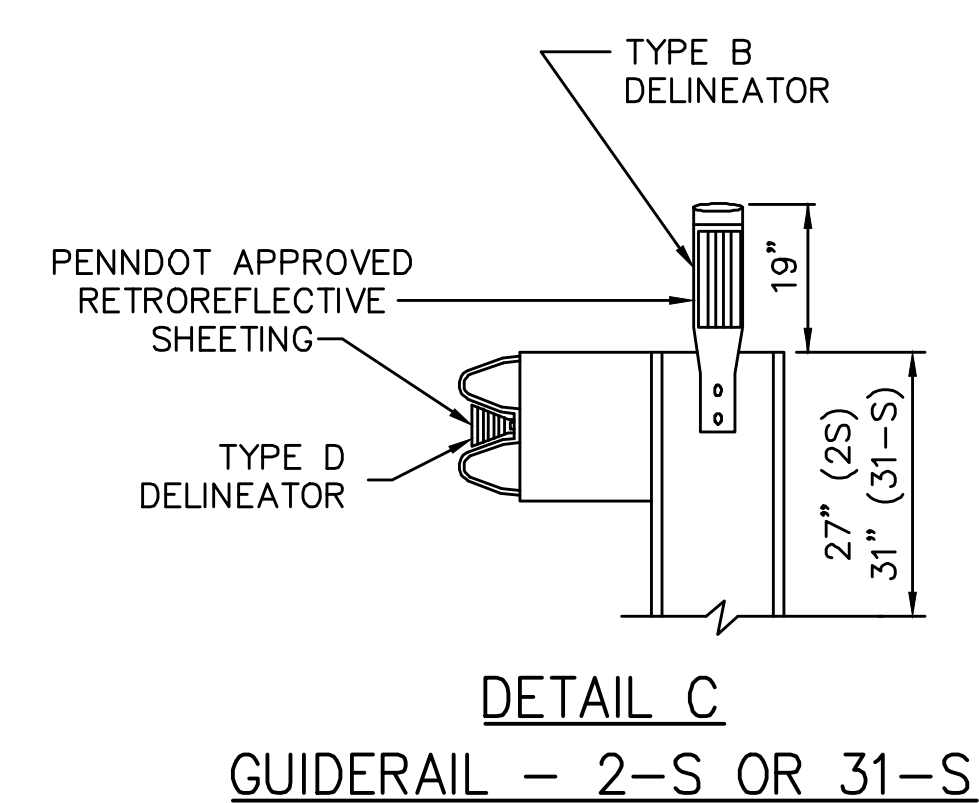
PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING

FILE NAME: PTS-980-36.dwg  
 DRAWING TYPE: 5A  
 SHEET 36 OF 40

DATE: DECEMBER 2019  
 PTS-980



- NOTES:
- FOR BARRIER AND GUIDERAIL ALONG THE RIGHT SHOULDER, INSTALL WHITE TOP-MOUNT DELINEATORS ALONG THE LONGITUDINAL CENTERLINE.
  - FOR BARRIER AND GUIDERAIL ALONG THE LEFT SHOULDER AND MEDIAN, INSTALL YELLOW TOP-MOUNT DELINEATORS ALONG THE LONGITUDINAL CENTERLINE.
  - FOR BARRIER OR GUIDERAIL, PLACE DELINEATORS AT A LONGITUDINAL SPACING FOR THE FOLLOWING SECTIONS:
    - TANGENT SECTIONS - 72 FEET MINIMUM/75 FEET MAXIMUM, OR EVERY SIXTH BARRIER / GUIDERAIL PANEL.
    - CURVED SECTIONS - 36 FEET MINIMUM/37.5 FEET MAXIMUM, OR EVERY THIRD BARRIER / GUIDERAIL PANEL.
  - IN THE ABSENCE OF BARRIER AND GUIDERAIL, INSTALL WHITE FLEXPOST DELINEATORS FOR RIGHT SHOULDER APPLICATIONS, AND YELLOW FLEXPOST DELINEATORS FOR MEDIAN AND LEFT SHOULDER APPLICATIONS.
  - INSTALL ONE (1) FLEX POST DELINEATOR AT THE BEGINNING OF THE WIDE AREA AND AT THE END OF THE WIDE AREA. THERE IS TO BE NO DELINEATION ALONG THE BACK OF THE WIDE AREA FOR SHOULDER APPLICATIONS.
  - MAXIMUM FLEX POST DELINEATOR SPACING AS SHOWN IN DETAIL F. FACE DELINEATORS TO ONCOMING TRAFFIC. POSTS TO BE PLACED APPROXIMATELY 1 FOOT BEHIND OUTER EDGE OF PAVED SHOULDER.
  - ELIMINATE FLEX POST DELINEATOR IF MILE MARKER OR TENTH/MILE MARKER IS WITHIN 25 FEET.
  - ALL RED FLEXIBLE MARKERS USED TO IDENTIFY DRAINAGE STRUCTURES ARE NOT TO HAVE PENNDOT APPROVED RETROREFLECTIVE SHEETING.



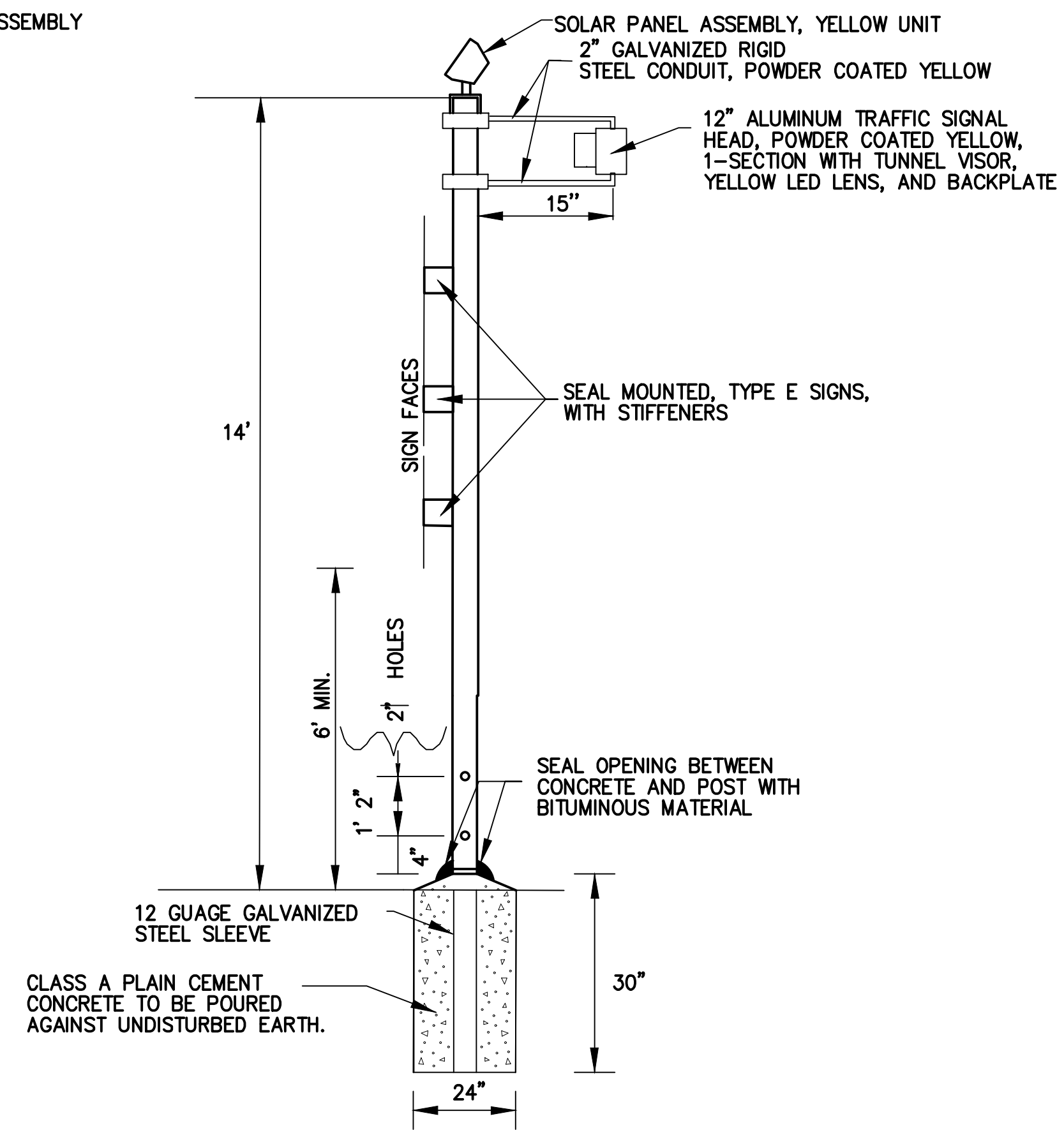
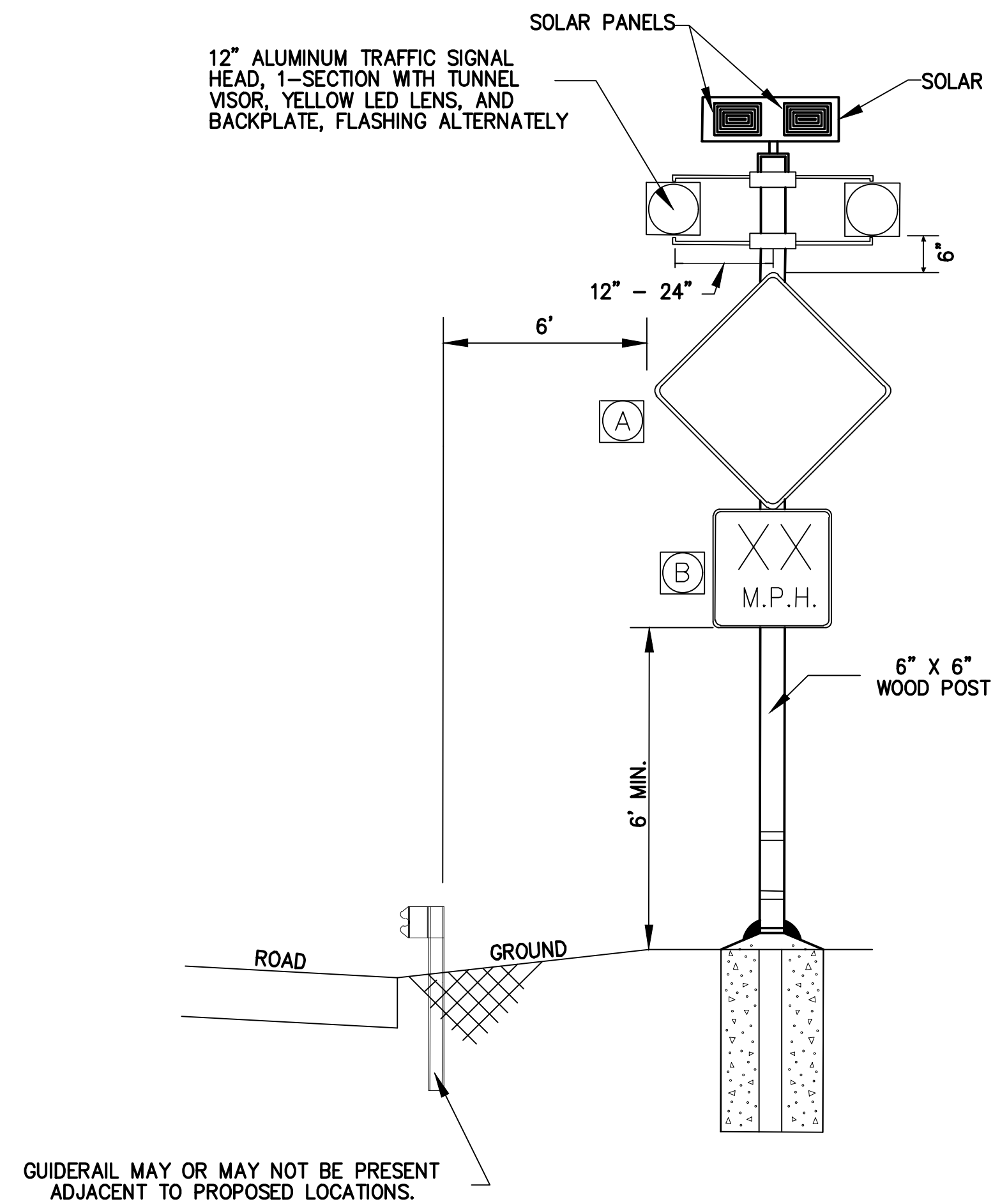
RECOMMENDED: DECEMBER 31, 2019  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
 CHIEF ENGINEER

**CONSTRUCTION AND MAINTENANCE  
 SHOULDER DELINEATION**

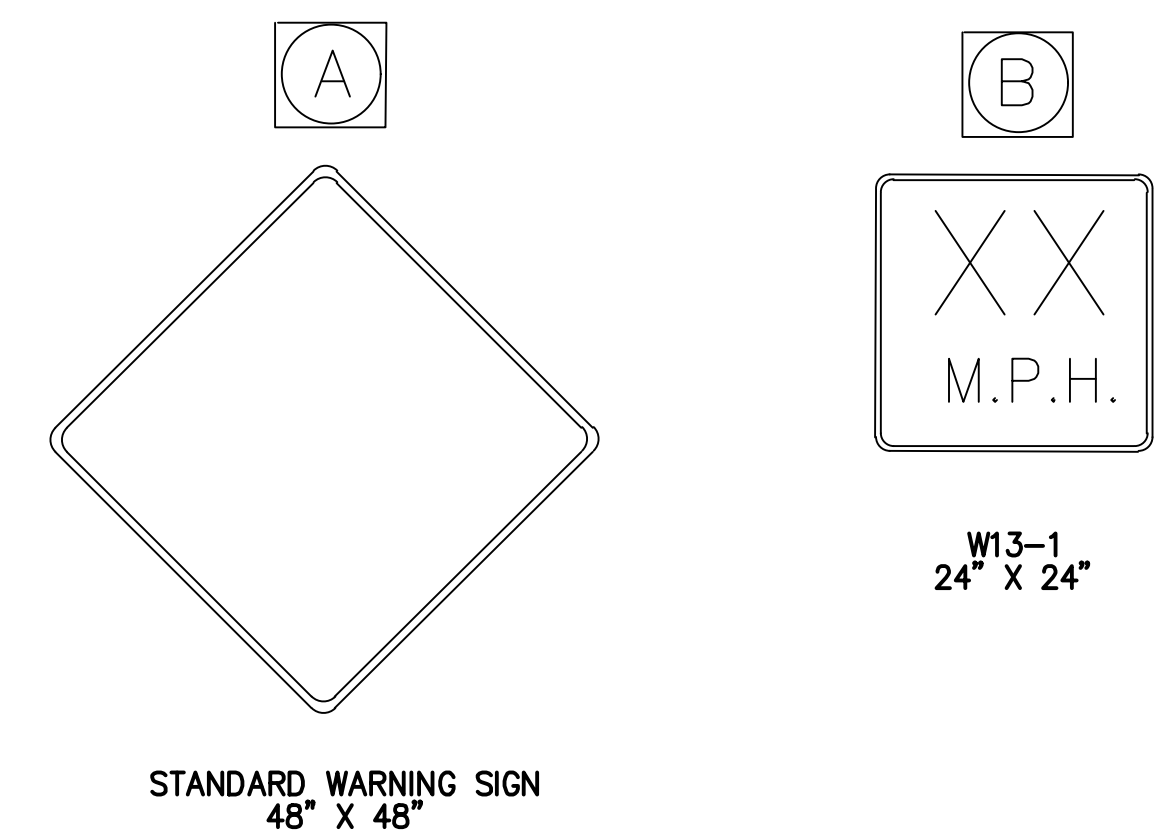
**PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING**

FILE NAME: PTS-980-37.dwg  
 DRAWING TYPE: 5A  
 SHEET 37 OF 40

DATE: DECEMBER 2019  
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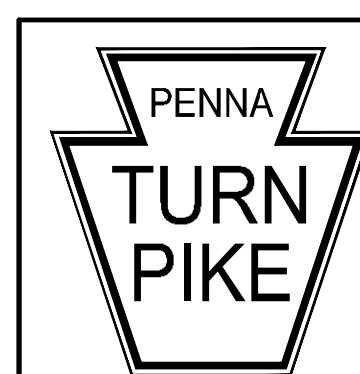


SIGN DETAILS  
N.T.S.



NOTES:

1. FOR FLAT SHEET ALUMINUM SIGNS WITH STIFFENERS SEE TC-8701S.
2. SPEED LIMIT FOR SIGN B, W13-1, TO BE AS DIRECTED BY THE REPRESENTATIVE.



RECOMMENDED: DECEMBER 31, 2019

*Gary L. Gilman*

ASSISTANT CHIEF ENGINEER - DESIGN

APPROVED: DECEMBER 30, 2019

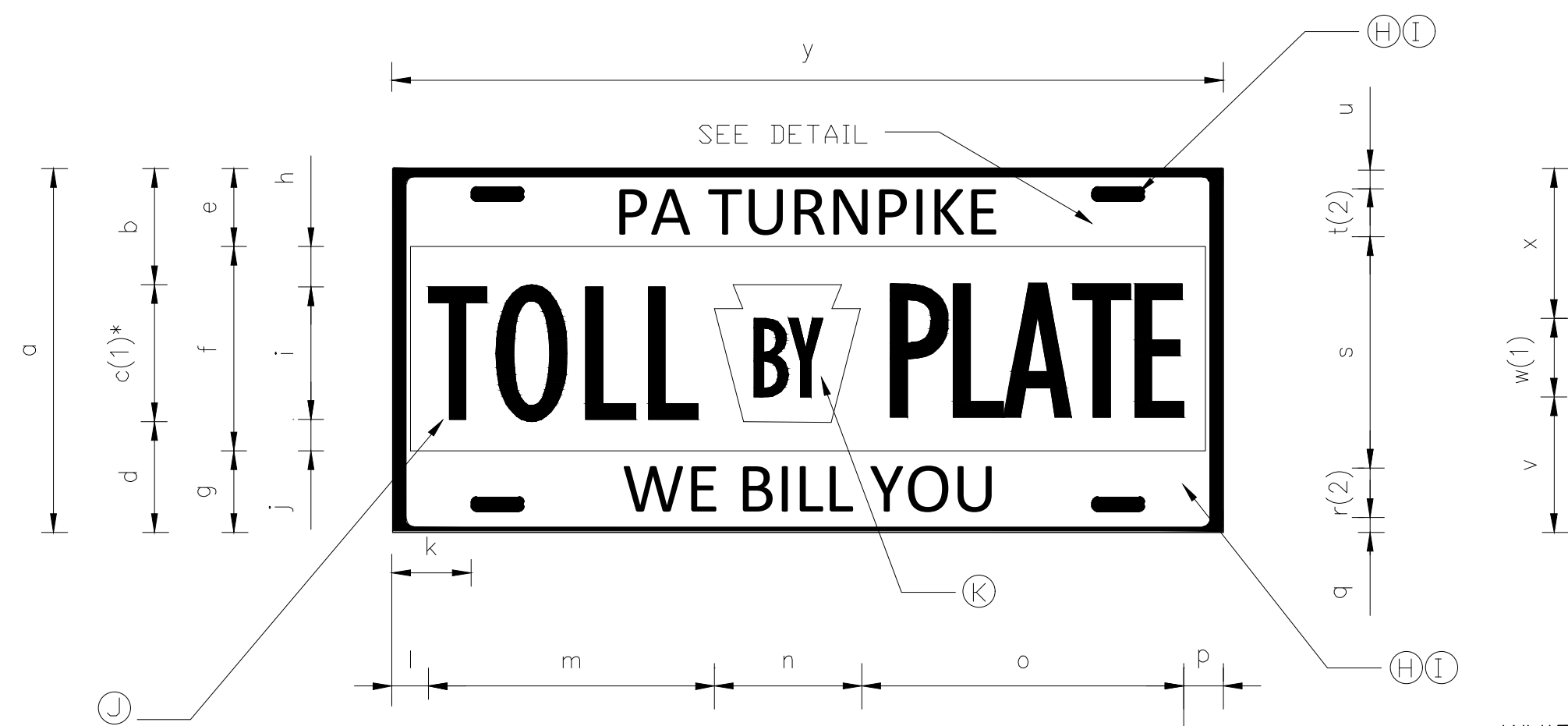
*[Signature]*

CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE  
SOLAR POWERED FLASHING  
WARNING DEVICE DETAIL

PENNSYLVANIA TURNPIKE COMMISSION  
STANDARD DRAWING

FILE NAME: PTS-980-38.dwg	SHEET 38 OF 40
DRAWING TYPE: 5A	
DATE: DECEMBER 2019	PTS-980



FONT:  
 (1) khmerUIb  
 (2) Calibri

	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
18"	18	5.63	6.56	5.81	3.98	10.05	3.97	1.73	6.82	1.5	3.83	2.4	13.17	7.24	16.23
24"	24	7.5	8.75	7.75	5.3	13.4	5.3	2.4	9	2	5.1	3.2	17.56	9.65	21.64
36"	36	11.25	13.13	11.62	7.95	20.1	7.95	3.6	13.5	3	13.5	4.8	26.34	14.48	32.46

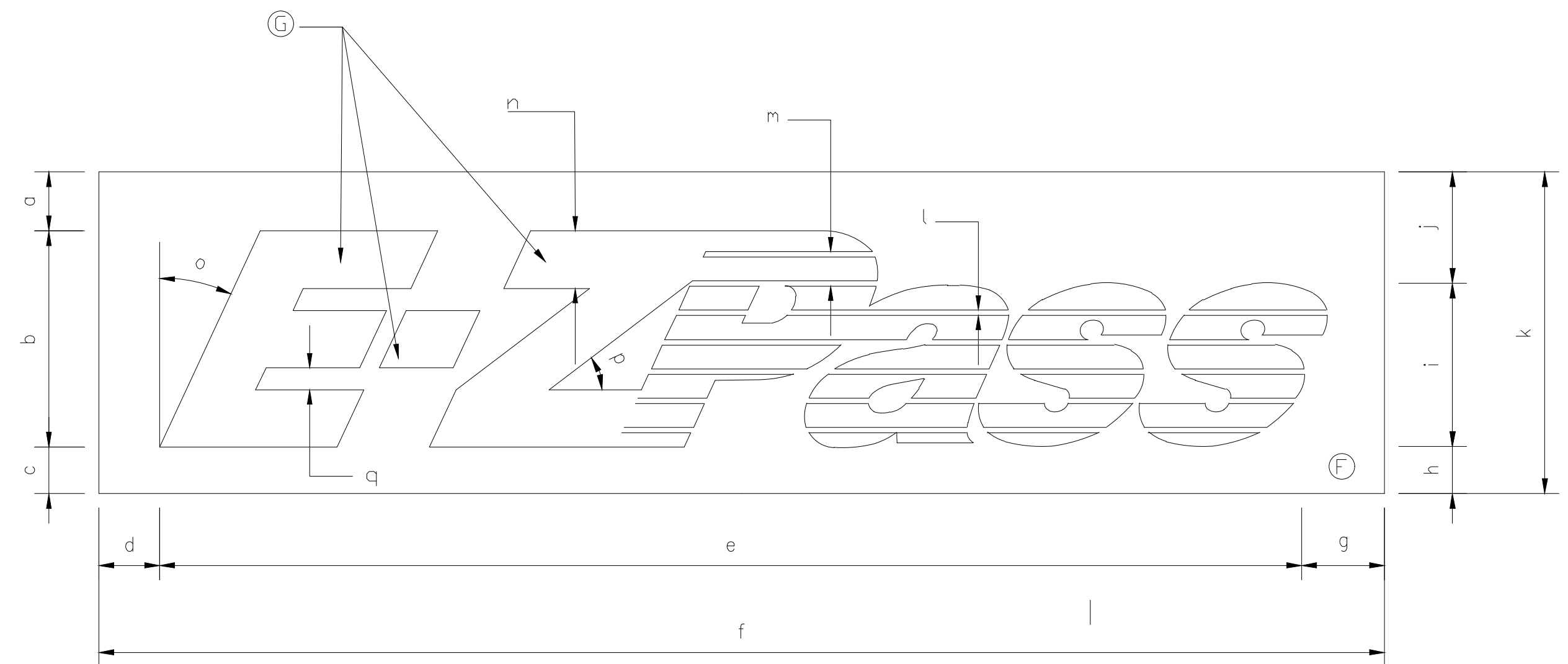
	p	q	r	s	t	u	v	w	x	y	z	aa	bb	cc	dd	ee	ff
18"	2.1	0.75	2.4	11.47	2.4	0.98	6.45	3.90	7.65	41.14	0.27	2.6	0.71	0.47	0.65	0.47	0.22
24"	2.8	1	3.2	15.3	3.2	1.3	8.6	5.2	10.2	54.85	0.36	3.47	0.94	0.63	0.86	0.62	0.29
36"	4.2	1.5	4.8	22.95	4.8	1.95	12.9	7.8	15.3	82.28	0.54	5.21	1.41	0.95	1.29	0.93	0.44

- (H) PURPLE TYPE XI REFLECTORIZED BACKGROUND, PANTONE 259C.
- (I) WHITE TYPE XI REFLECTORIZED LEGEND.
- (J) WHITE TYPE XI REFLECTORIZED BACKGROUND.
- (K) PURPLE TYPE XI REFLECTORIZED BACKGROUND WITH WHITE TYPE XI REFLECTORIZED LEGEND.
- \* TOLL AND PLATE LEGEND, PANTONE 342

TOLL BY PLATE  
DETAIL

WHITE BORDER TO  
 PURPLE PLATE OUTLINE

TOP = cc  
 LEFT = dd  
 RIGHT = ee  
 BOTTOM = ff

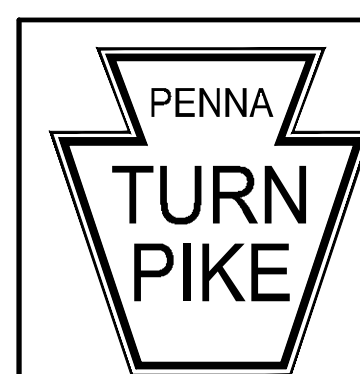


	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q
12"	2.2	8	1.8	2.2	43.8	48.2	2.2	1.8	6	4.2	12	0.2	0.9	2.2	25?	37?	0.8
18"	3.3	12	2.7	3.3	65.4	72.0	3.3	2.6	9	6.4	18	0.29	1.4	3.2	25?	37?	1.2
24"	4.4	16	3.6	4.4	87.2	96.0	4.4	3.5	12	8.5	24	0.39	1.8	4.3	25?	37?	1.6
36"	6.6	24	5.4	6.6	130.8	144	6.6	5.3	18	12.7	36	0.59	2.7	6.5	25?	37?	2.4

(F) PURPLE TYPE XI REFLECTORIZED BACKGROUND, PANTATONE 259C.

(G) WHITE TYPE XI REFLECTORIZED LEGEND.

E-Z PASS DETAIL



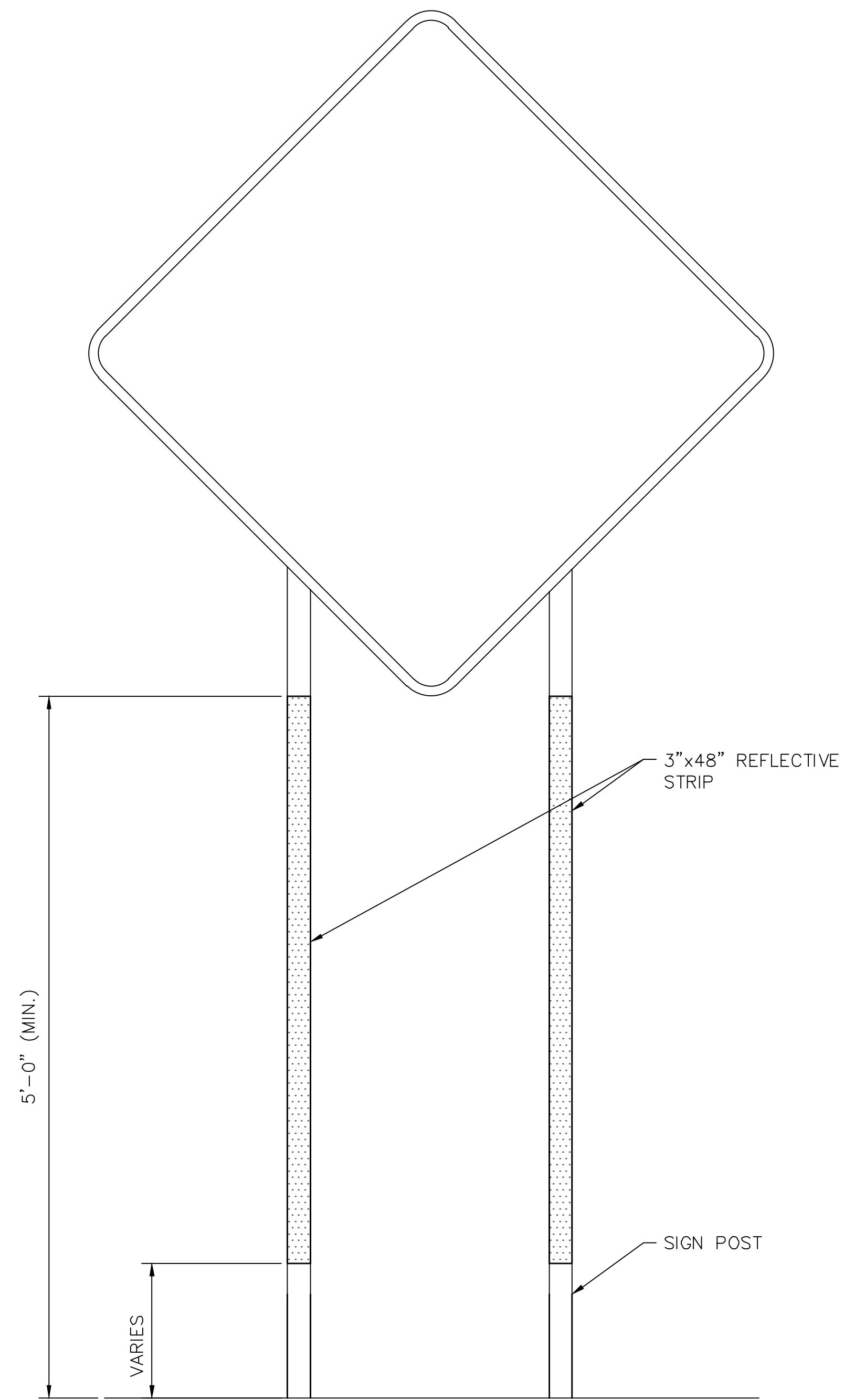
RECOMMENDED: DECEMBER 31, 2019  
 ASSISTANT CHIEF ENGINEER - DESIGN  
 APPROVED: DECEMBER 30, 2019  
 CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE  
 EZ-PASS AND TOLL BY PLATE DETAIL

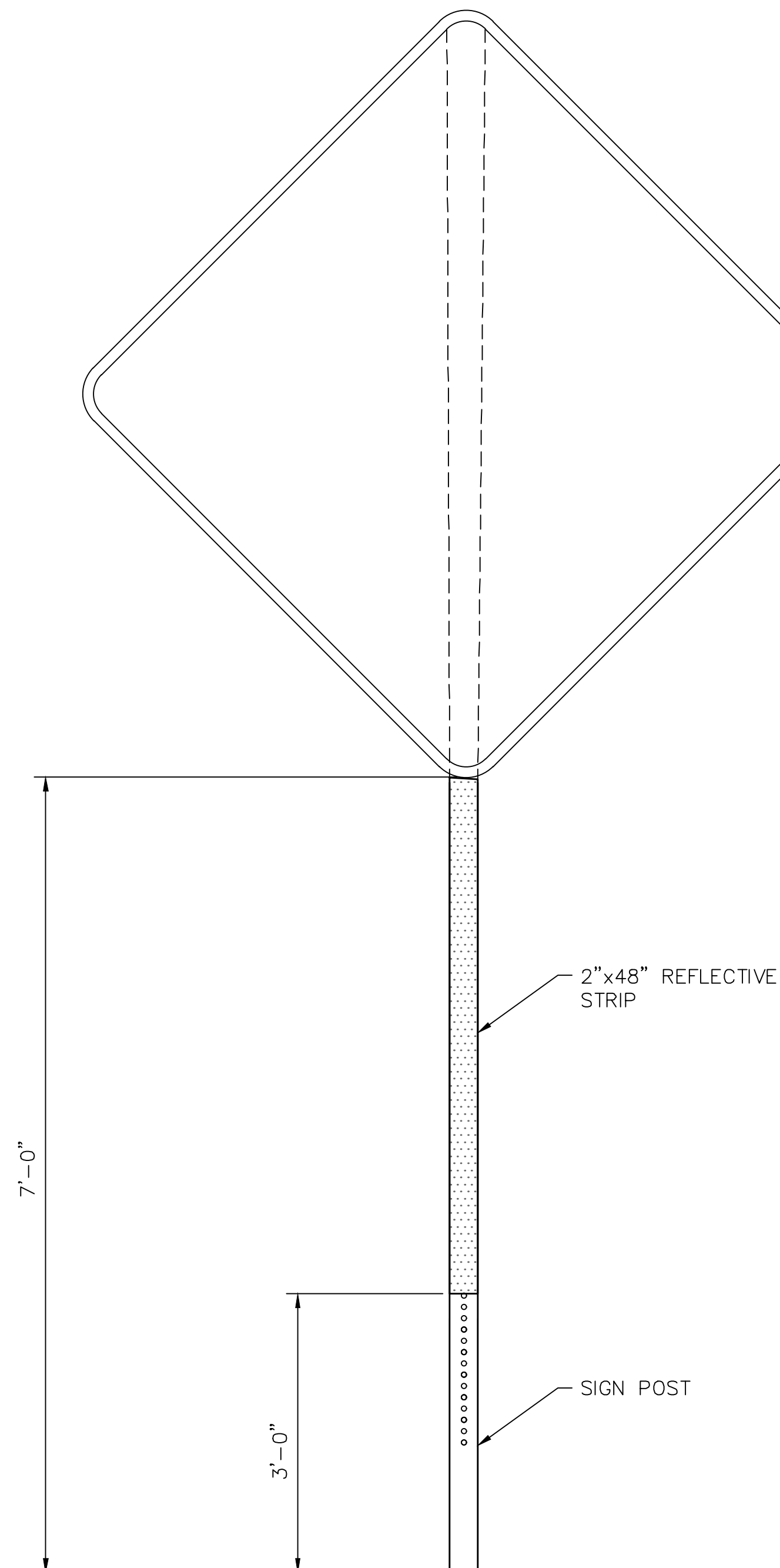
PENNSYLVANIA TURNPIKE COMMISSION  
 STANDARD DRAWING

FILE NAME: PTS-980-39.dwg  
 DRAWING TYPE: 5A  
 SHEET 39 OF 40

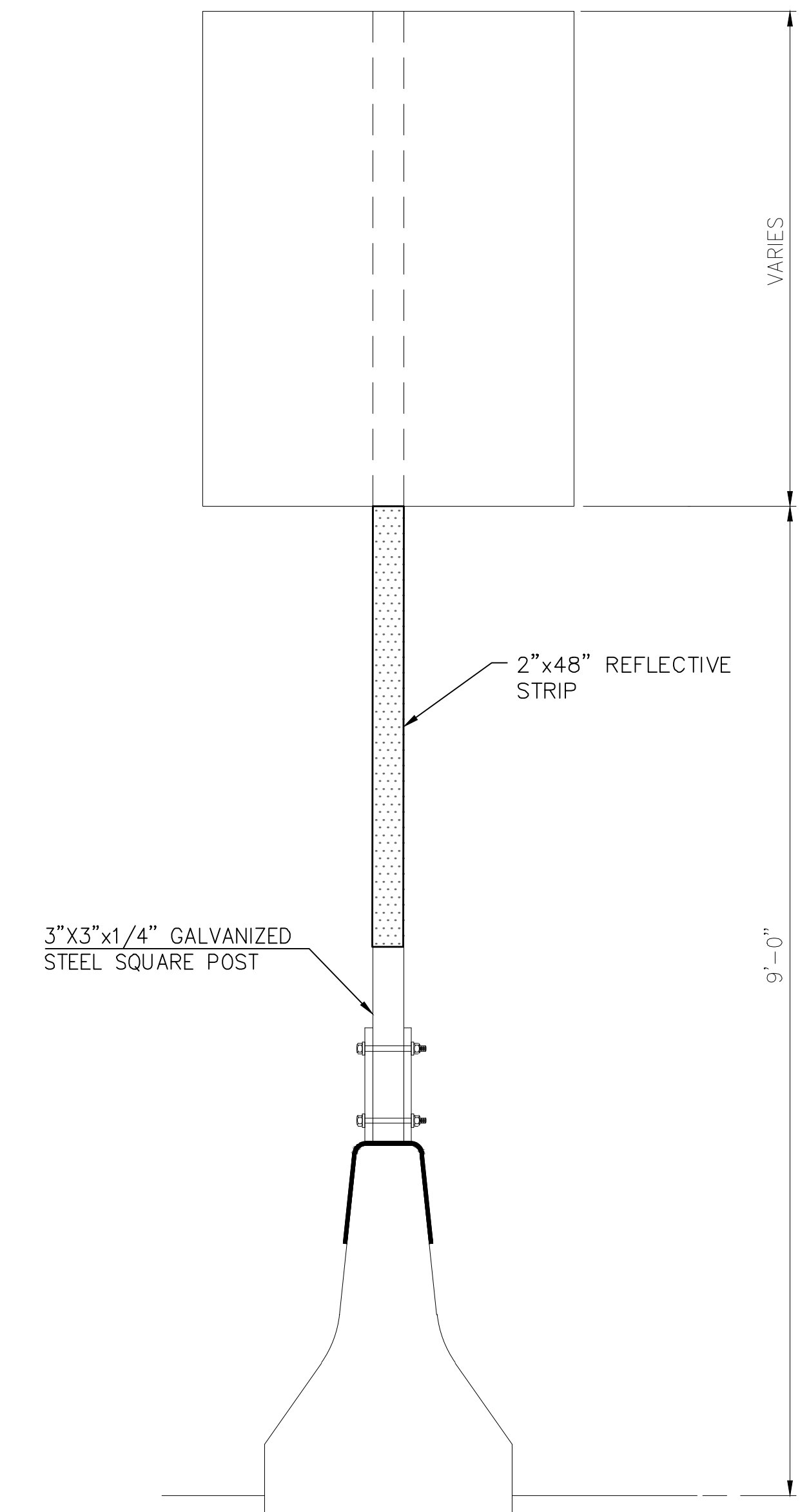
DATE: DECEMBER 2019  
 PTS-980



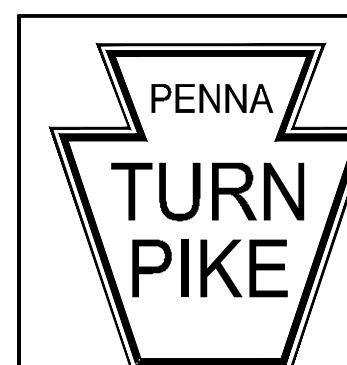
TYPE C WOOD POST



TYPE B SQUARE STEEL POST



MEDIAN SIGN ON A SADDLE BRACKET



RECOMMENDED: DECEMBER 31, 2019

*Gayle Gilman*

ASSISTANT CHIEF ENGINEER - DESIGN

APPROVED: DECEMBER 30, 2019

*[Signature]*

CHIEF ENGINEER

CONSTRUCTION AND MAINTENANCE  
RETROREFLECTIVE STRIP ON SIGN POST DETAIL

PENNSYLVANIA TURNPIKE COMMISSION  
STANDARD DRAWING

FILE NAME: PTS-980-40.dwg SHEET 40 OF 40

DRAWING TYPE: 5A

DATE: DECEMBER 2019 PTS-980