



**Hillsborough
County** Florida



HILLSBOROUGH COUNTY PUBLIC WORKS

Standard Details for Road Construction

Effective January 2026

Hillsborough County Public Works Department
601 E. Kennedy Blvd.
Tampa, FL 33602

HILLSBOROUGH COUNTY STANDARD DETAILS

NOTICE:

The Standard Details are intended to support the various engineering processes for construction on the arterial, collector, and local roads within the county's public right-of-way. The Standard Details are established to ensure the application of uniform standards in the preparation of contract plans for construction of roadways and structures. These Standard Details may be used for maintenance operations or adopted by other authorities for use on projects under their jurisdiction.

It is the responsibility of the Engineer of Record using these Standard Details to determine the fitness for a particular use of each standard in the design of a project. The inappropriate use of and adherence to these Standard Details does not exempt the Engineer of Record from the professional responsibility of developing an appropriate design.

PATENTED DEVICES, MATERIALS AND PROCESSES:

The use of any design, method, process, material or device either expressed or implied by these standards that are covered by patent, copyright, or proprietary privilege is the sole responsibility of the user. Any infringement on the rights of the inventor, patentee, assignee or licensee shall be the sole responsibility of the user.

CERTIFICATION STATEMENT

I hereby certify that these Standard Details were prepared under my responsible charge, compiled from designs prepared, examined, adopted and implemented by the Hillsborough County Public Works Department in accordance with established procedures.

**THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY MICHAEL J. WILLIAMS ON THE DATE ADJACENT TO THE SEAL.
SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES**

**Michael J
Williams**

Digitally signed by
Michael J Williams
Date: 2026.01.02
15:06:29 -05'00'

MICHAEL J. WILLIAMS, P.E.
HILLSBOROUGH COUNTY COUNTY ENGINEER

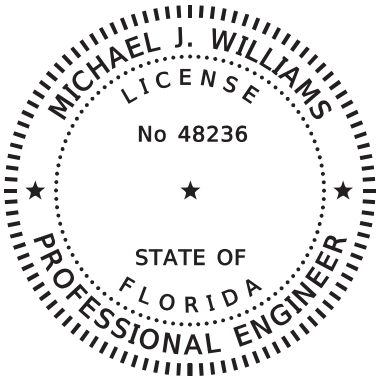


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STANDARD DETAILS FOR HILLSBOROUGH COUNTY ROAD CONSTRUCTION

STANDARD

DETAIL	INDEX TITLE
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ROADWAY

OSS-001	OPTIONAL SHOULDER SECTIONS
PRC-001	PEDESTRIAN RAMP CONFIGURATION FOR LOCAL ROADS
SGD-001	SHOULDER GRADING DETAILS
SSP-001	SCHOOL SHOULDER PAVEMENT DETAIL
TAD-001	TRUCK APRON DETAIL

TRAFFIC CONTROL SIGNALS AND DEVICES

DZL-001	DETECTION ZONE LAYOUT DETAILS
OSN-001	OVERHEAD STREET NAME INTERNALLY ILLUMINATED SIGN PANEL DETAIL
PDS-001	PEDESTRIAN SIGNAL DETAIL
POE-001	POWER OUTAGE EMERGENCY BEACON INSTALLATION DETAILS
SCS-001	SIGNAL CROSS SECTION DETAILS
TCC-001	TRAFFIC CONTROLLER CABINET INSTALLATION DETAILS
TDL-001	TYPICAL DRIP LOOP DETAIL

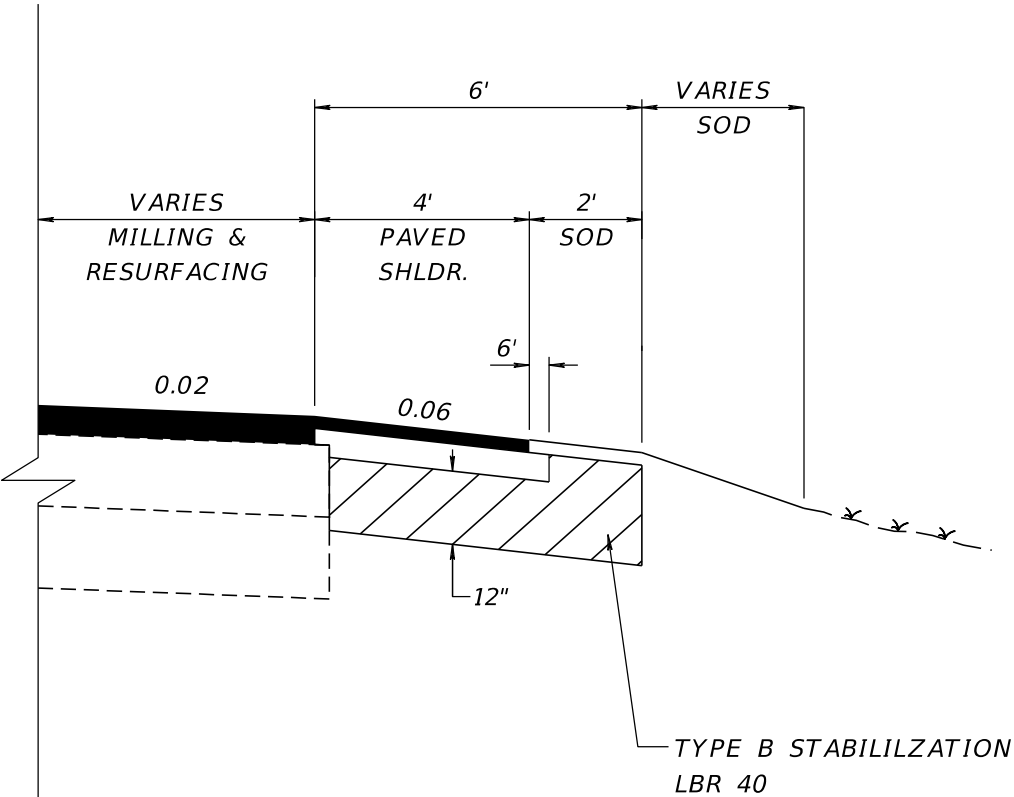
SIGNING AND PAVEMENT MARKINGS

GCB-001	GREEN COLORED CONTRAST BLOCK FOR BICYCLIST SYMBOL AND BIKE LANE ARROW
PMS-001	POST MOUNTED SIGNS DETAILS

HILLSBOROUGH COUNTY STANDARD DETAILS
REVISIONS LOG

STANDARD DETAIL INDEX	DESCRIPTION	
GCB-001	<u>GREEN COLORED CONTRAST BLOCK</u>	
	Sheet 1: 01/14/21	REMOVED THE 2" SPACE BETWEEN THE GREEN BLOCK AND GUTTER LINE.
OSN-001	<u>OVERHEAD STREET NAME</u>	
	Sheet 1: 05/05/23	BORDER COLOR ELIMINATED FOR INTERNALLY ILLUMINATED SIGN PANEL.
	06/14/23	SIGN 3 LETTERING EXAMPLE UPDATED, SIGNS 2 AND 4 UPDATED TO SHOW WHOLE NUMBERS FOR LENGTH, UPDATED SHEET NOTES.
	Sheet 2: 06/14/23	SIGN 3 LETTERING EXAMPLE UPDATED, SIGNS 2 AND 4 UPDATED TO SHOW WHOLE NUMBERS FOR LENGTH, UPDATED SHEET NOTES AND BLOCK NUMBERS.
	Sheet 3: 05/05/23	BORDER COLOR ELIMINATED FOR INTERNALLY ILLUMINATED SIGN PANEL.
	06/14/23	UPDATED SHEET NOTES AND BLOCK NUMBERS.
	Sheet 4: 06/14/23	SHEET ADDED FOR EXISTING INTERNALLY ILLUMINATED SIGN PANEL DETAILS.
OSS-001	<u>OPTIONAL SHOULDER SECTIONS</u>	
	Sheet 1: 11/07/25	INDEX NAME AND NOTES HAVE BEEN UPDATED.
SGD-001	<u>SHOULDER GRADING DETAILS</u>	
	Sheet 1: 11/07/25	INDEX NAME HAS BEEN UPDATED.
SSP-001	<u>SCHOOL SHOULDER</u>	
	Sheet 1: 11/07/25	INDEX LETTERS AND NAME HAVE BEEN UPDATED.

- NOTES:
- 1. PROVIDE PAVED SHOULDERS WHEN THE TRAFFIC VOLUME IS GREATER THAN 5,000 AADT.
 - 2. SHOULDER PAVEMENT WILL BE THE SAME AS THE TOP LAYER OF THE ROAD RESURFACING.
 - 3. WHEN SHOULDER IS DESIGNATED OR MARKED AS A BIKE FACILITY PAVED SHOULDER MUST BE SIX (6) FEET WIDE.

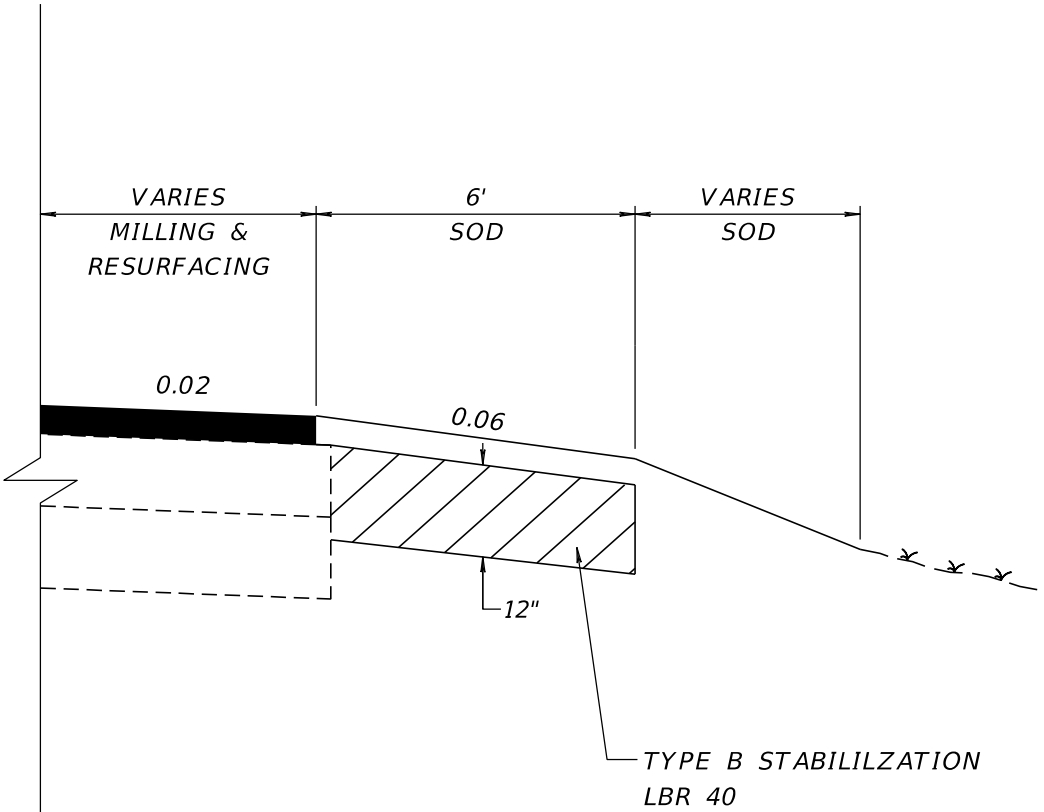


SHOULDER PAVEMENT

OPTIONAL BASE GROUP 1
FOR ASPHALT PAVEMENT SEE NOTE 2.

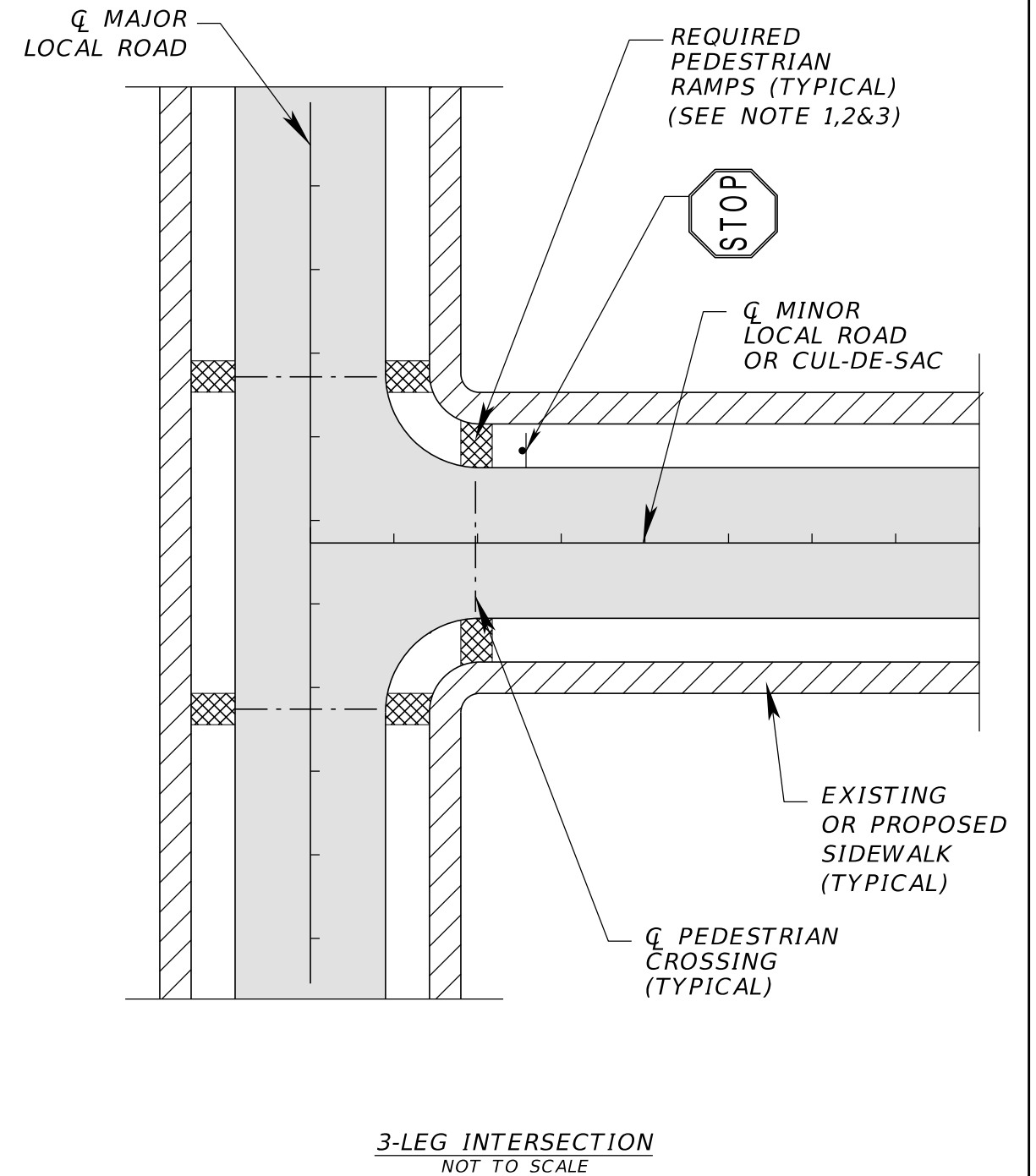
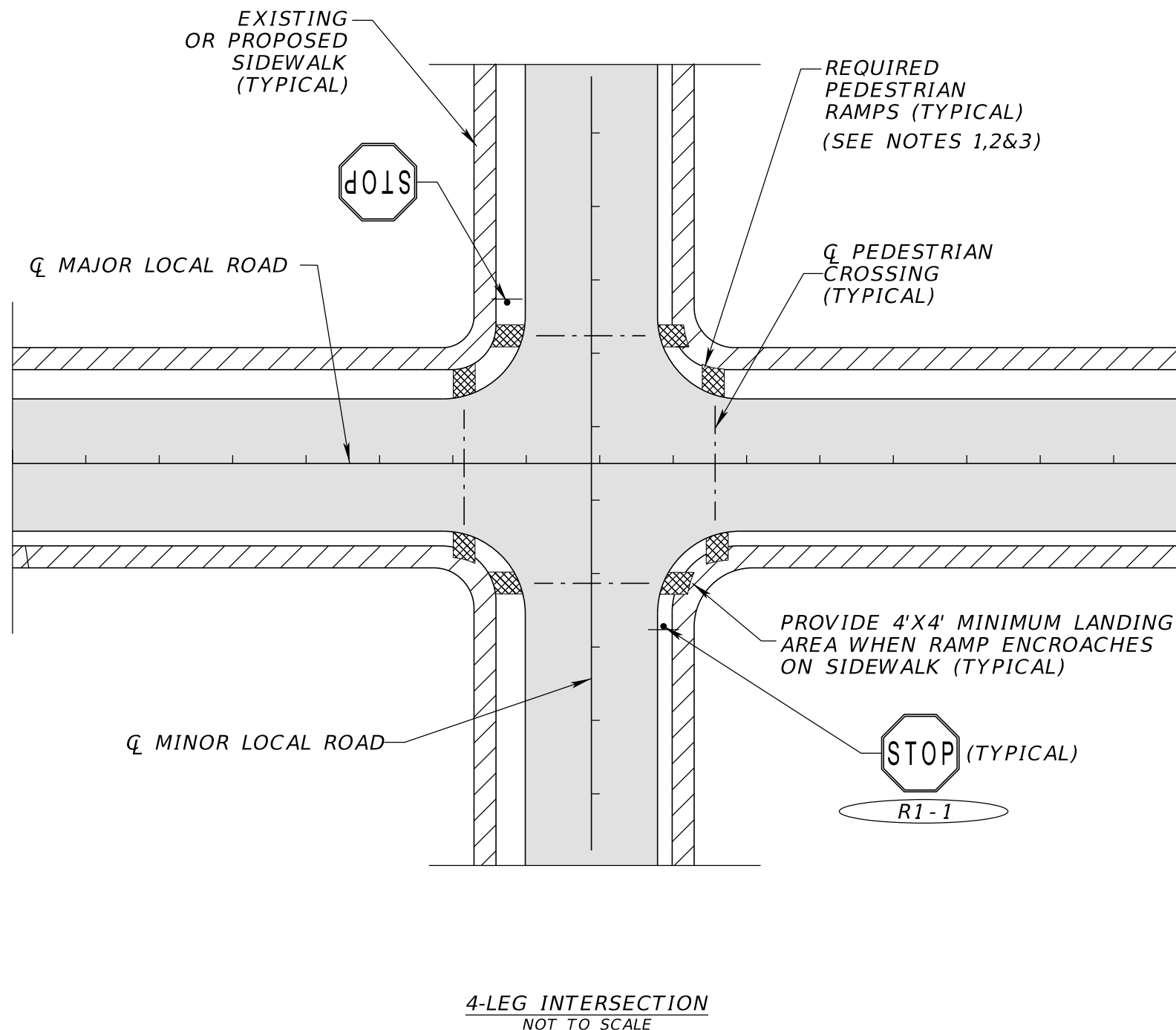
PAVED SHOULDER

N.T.S



STABILIZED SHOULDER WITH SOD

N.T.S

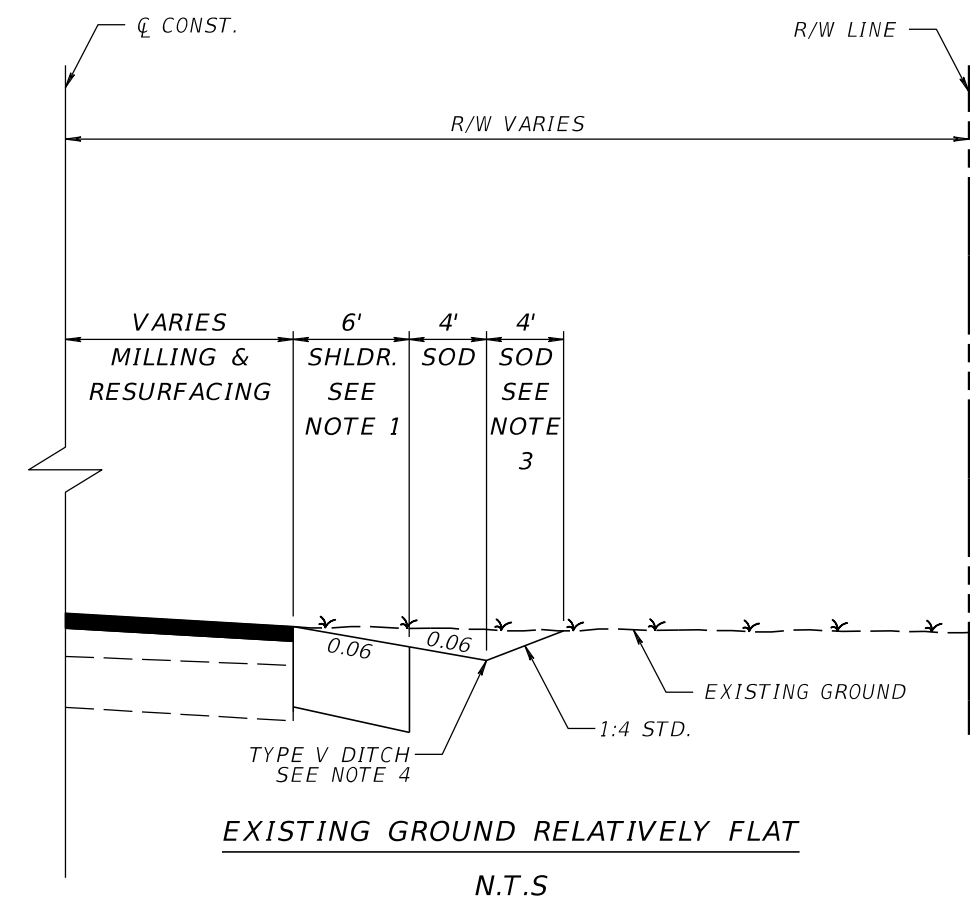
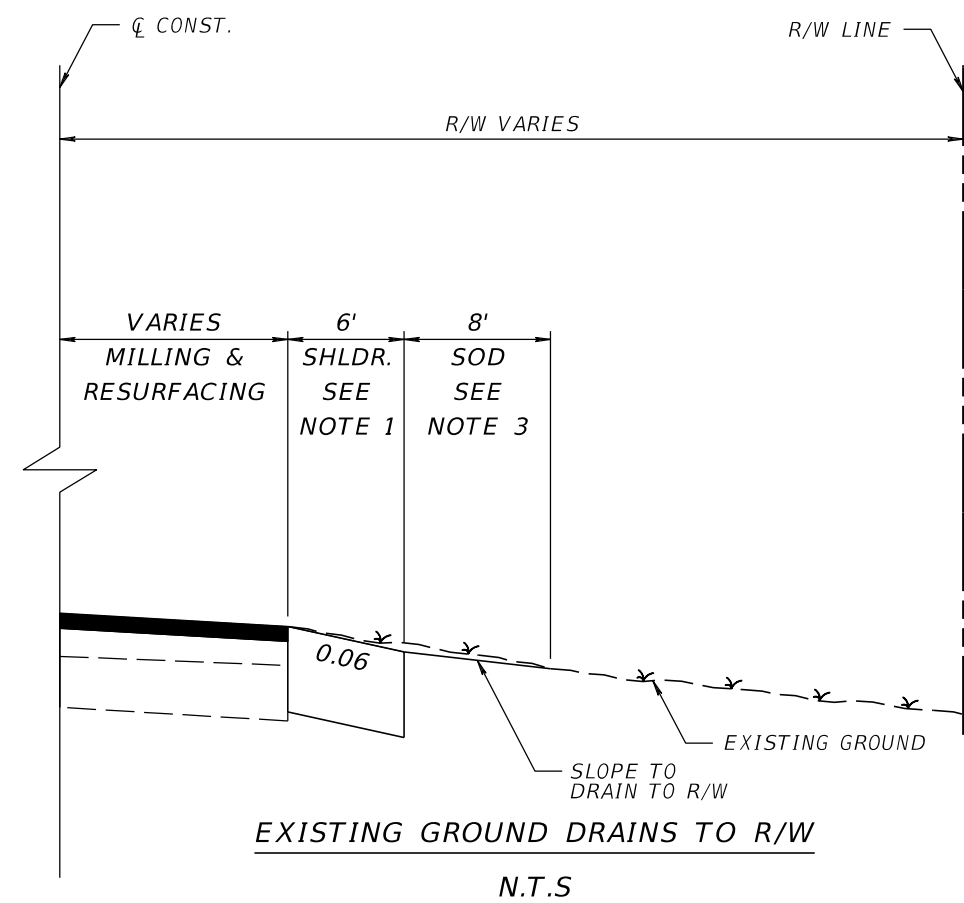
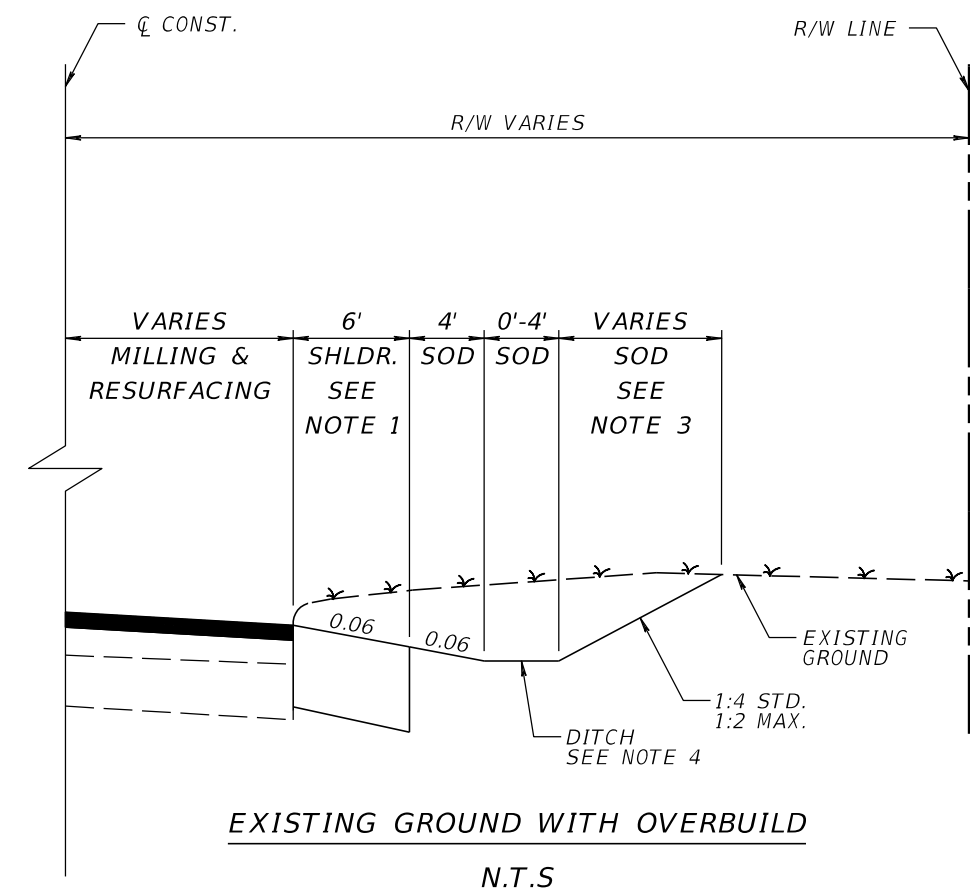


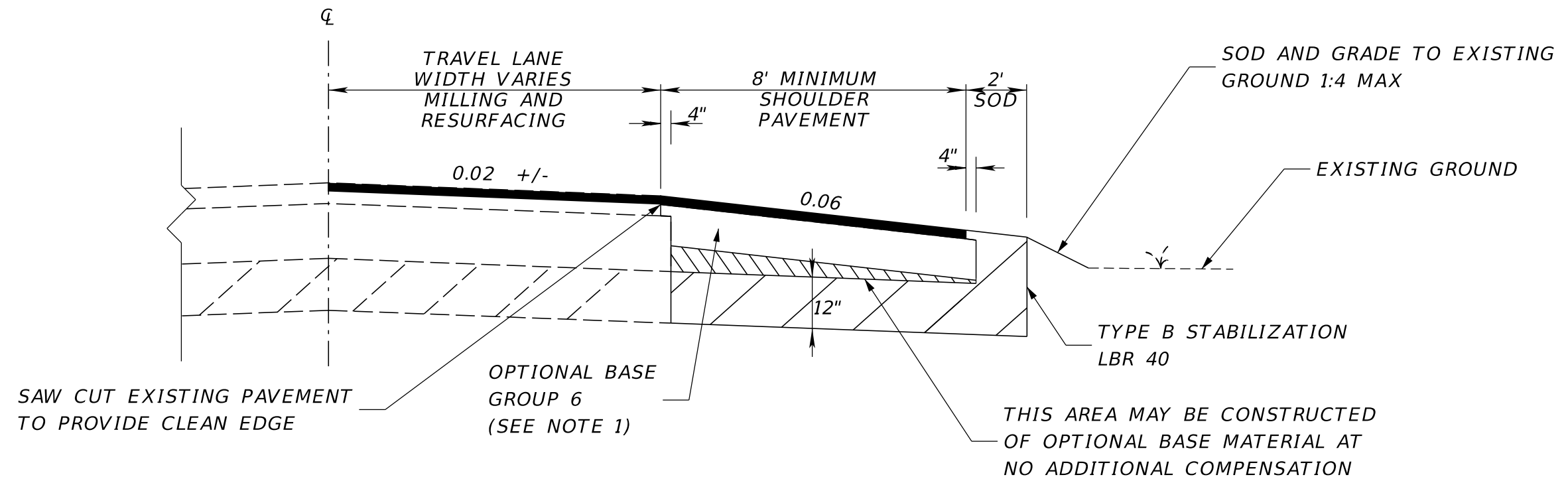
NOTES:

1. PEDESTRIAN RAMPS MUST BE COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT (ADA).
2. THE SIDEWALK RAMPS MUST BE ORIENTED SO THAT THE PEDESTRIAN CROSSING CENTERLINE IS PARALLEL TO THE ADJACENT ROAD.
3. SIDEWALK CURB RAMPS MUST BE SEPARATED SO THAT THE DETECTABLE WARNINGS ARE INDEPENDENT OF EACH OTHER AND DO NOT OVERLAP.

LAST REVISION 12/22/22	DESCRIPTION	 Hillsborough County Florida Standard Details	PEDESTRIAN RAMP CONFIGURATION FOR LOCAL ROADS	INDEX PRC-001	SHEET 1 of 1
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- NOTES:
- 1. SEE HILLSBOROUGH COUNTY DETAIL SHEET OSS-001 FOR OPTIONAL SHOULDER SECTIONS.
 - 2. MINIMUM DITCH DEPTH 8" BELOW EDGE OF TRAVEL LANE PAVEMENT.
 - 3. PROPOSED GROUND LINE WIDTHS TYING TO EXISTING GROUND MAY BE MODIFIED TO SUIT THE EXISTING CONDITION.
 - 4. ESTABLISH DITCH INVERT ELEVATION BY CONNECTING SIDE DRAIN INVERTS.





PAVEMENT DESIGN FOR DESIGN/POSTED SPEED $\geq$ 30 MPH

TRAVEL LANES

MILL EXISTING ASPHALT PAVEMENT (1 1/2" DEPTH)
RESURFACE WITH FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 6 WITH
FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

PAVEMENT DESIGN FOR DESIGN/POSTED SPEED < 30 MPH

TRAVEL LANES

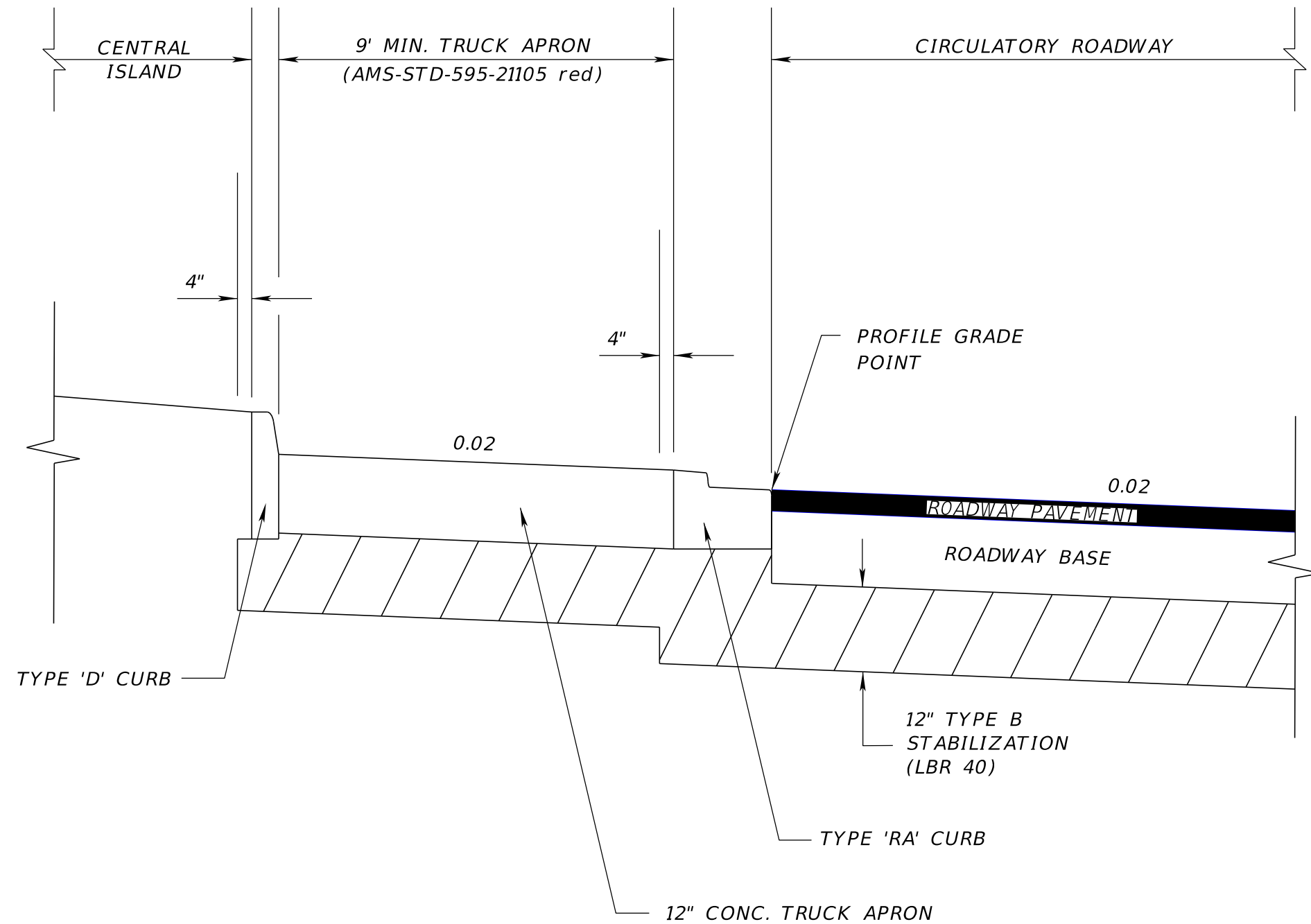
MILL EXISTING ASPHALT PAVEMENT (1 1/2" DEPTH)
RESURFACE WITH TYPE SP STRUCTURAL COURSE
(TRAFFIC C) (1 1/2") (PG 76-22)

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 6 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1 1/2") (PG 76-22)

NOTES:

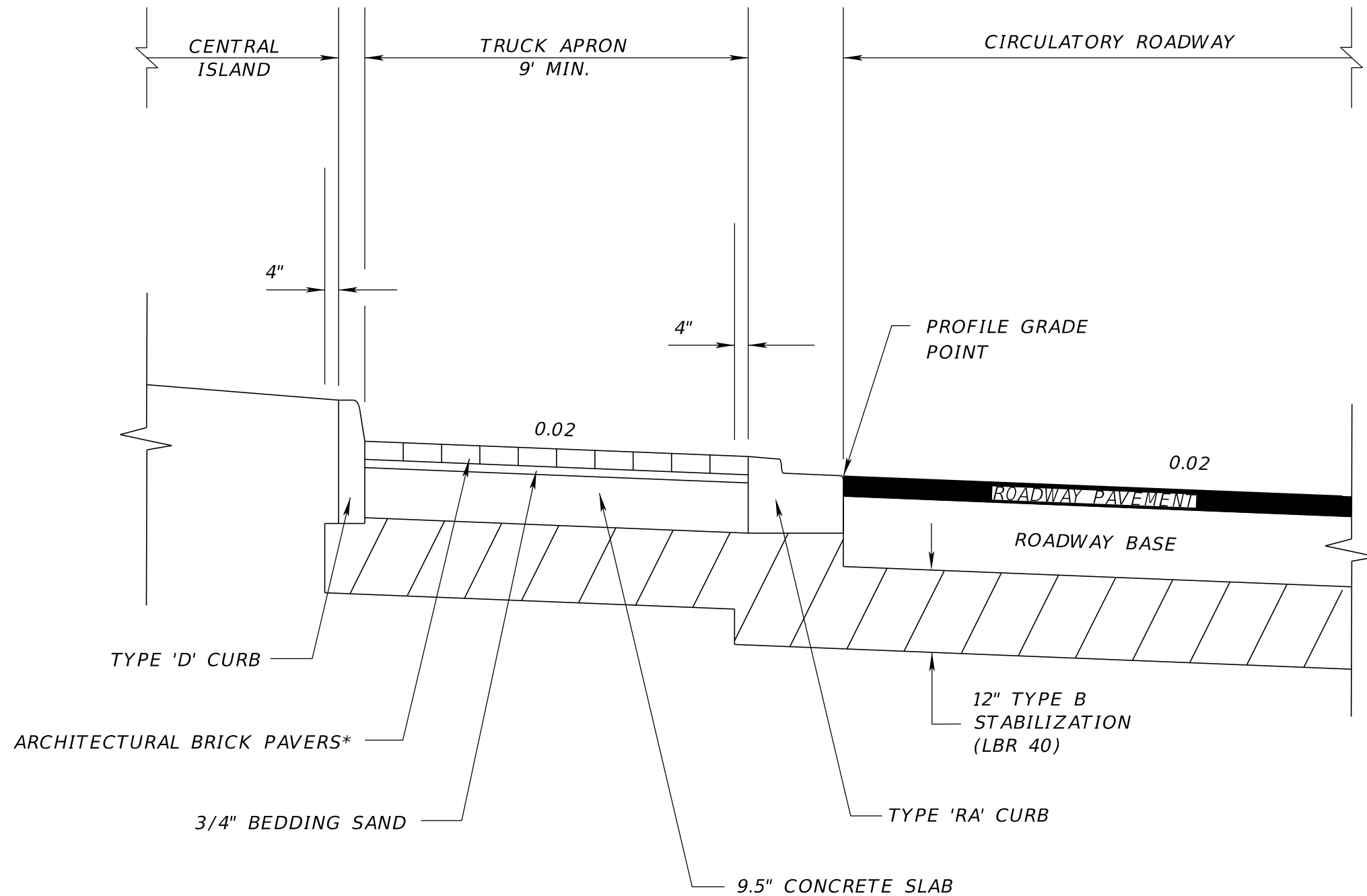
1. SHOULDER PAVEMENT DETAIL IS TO BE USED WHEN VEHICLES ARE QUEING ON UNPAVED OR PARTIALLY PAVED SHOULDER FOR CHILD DROPOFF OR PICKUP AND THERE ARE NO OTHER OPPORTUNITIES FOR VEHICLE QUEING.



NOTES:

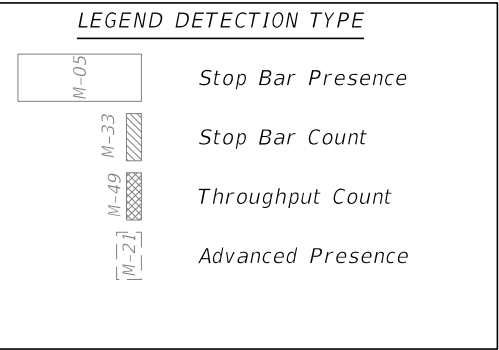
1. THE STANDARD TRUCK APRON PAVEMENT IS 12" CONCRETE
2. USE OF ARCHITECTURAL BRICK PAVERS ARE TO BE APPROVED BY HILLSBOROUGH COUNTY

LAST REVISION 01/14/21	DESCRIPTION	 Hillsborough County Florida Standard Details	TRUCK APRON DETAIL CONCRETE PAVEMENT	INDEX TAD-001	SHEET 1 of 2
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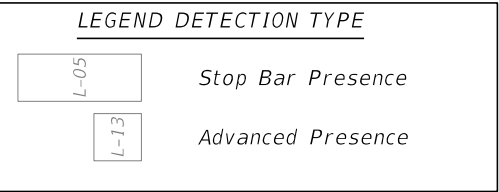
*SEE FDOT SPECIFICATION SECTION 526 ARCHITECTURAL PAVERS

LAST REVISION 01/14/21	REVISION	DESCRIPTION	 Hillsborough County Florida Standard Details	TRUCK APRON DETAIL BRICK PAVEMENT	INDEX TAD-001	SHEET 2 of 2
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TYPICAL NON-INTRUSIVE DETECTION ZONE LAYOUT

LAST REVISION 10/21/23	REVISION	DESCRIPTION  Hillsborough County Florida EST. 1854	Standard Details	DETECTION ZONE LAYOUT DETAILS	INDEX DZL-001	SHEET 1 of 2
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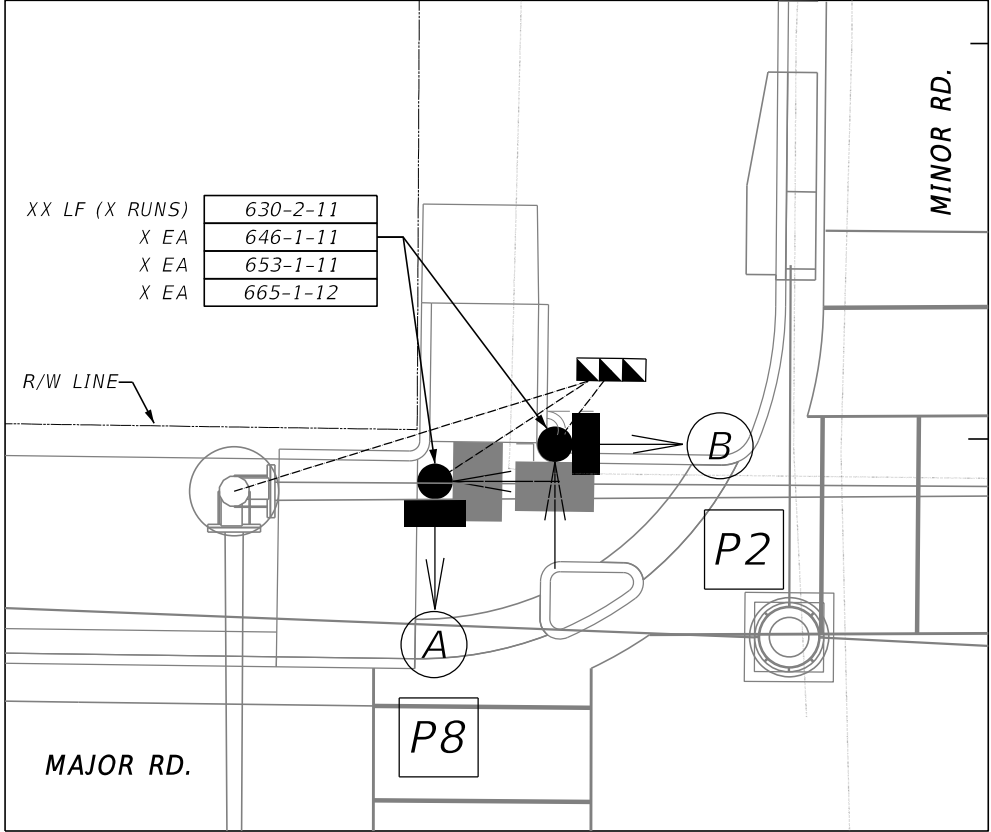


*TYPICAL LOOP
DETECTION ZONE LAYOUT*

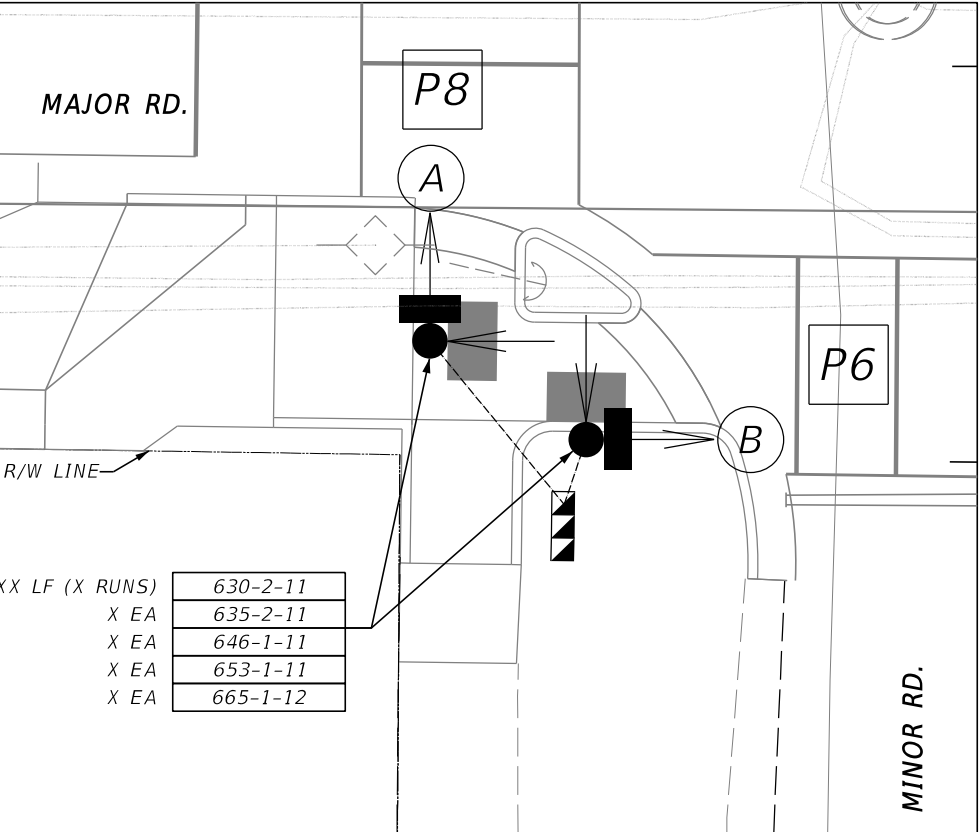
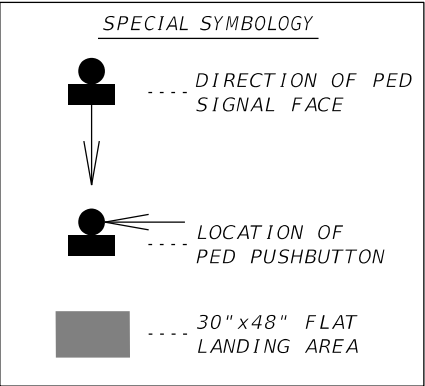
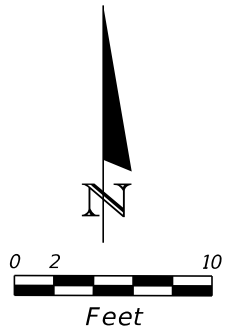
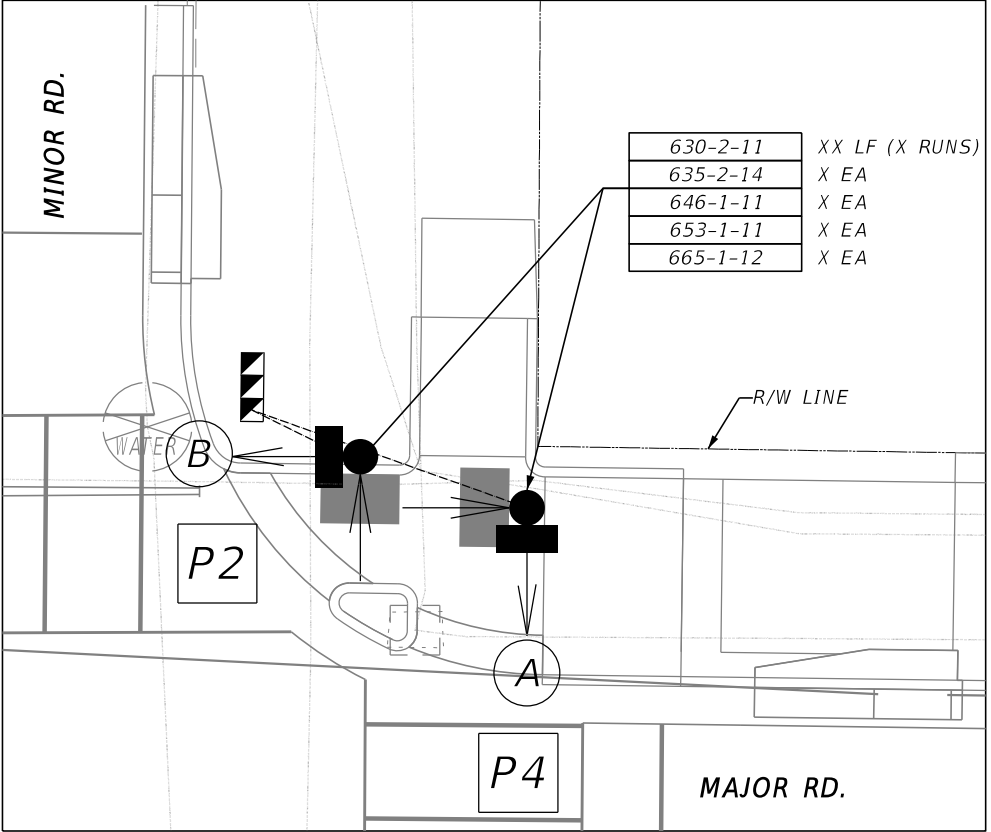
N.T.S.

LAST REVISION 10/21/23	REVISION	DESCRIPTION  Hillsborough County Florida EST. 1854	Standard Details	DETECTION ZONE LAYOUT DETAILS	INDEX DZL-001	SHEET 2 of 2
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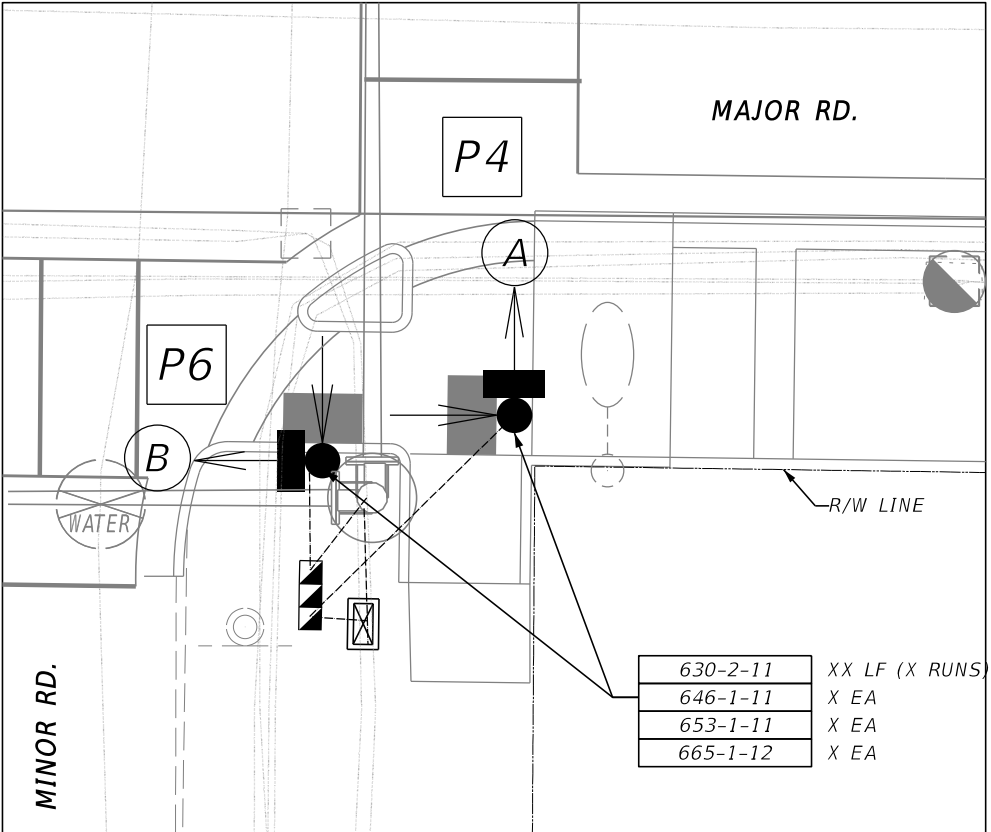
NORTHWEST QUADRANT



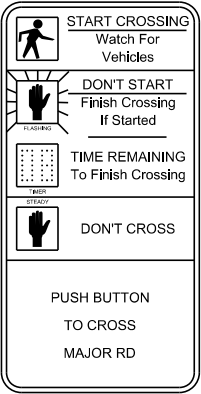
NORTHEAST QUADRANT



SOUTHWEST QUADRANT

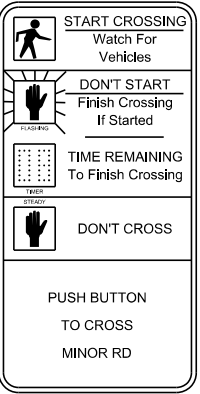


SOUTHEAST QUADRANT



FTP-68B-06
9"x18" X EA

A



FTP-68B-06
9"x18" X EA

B

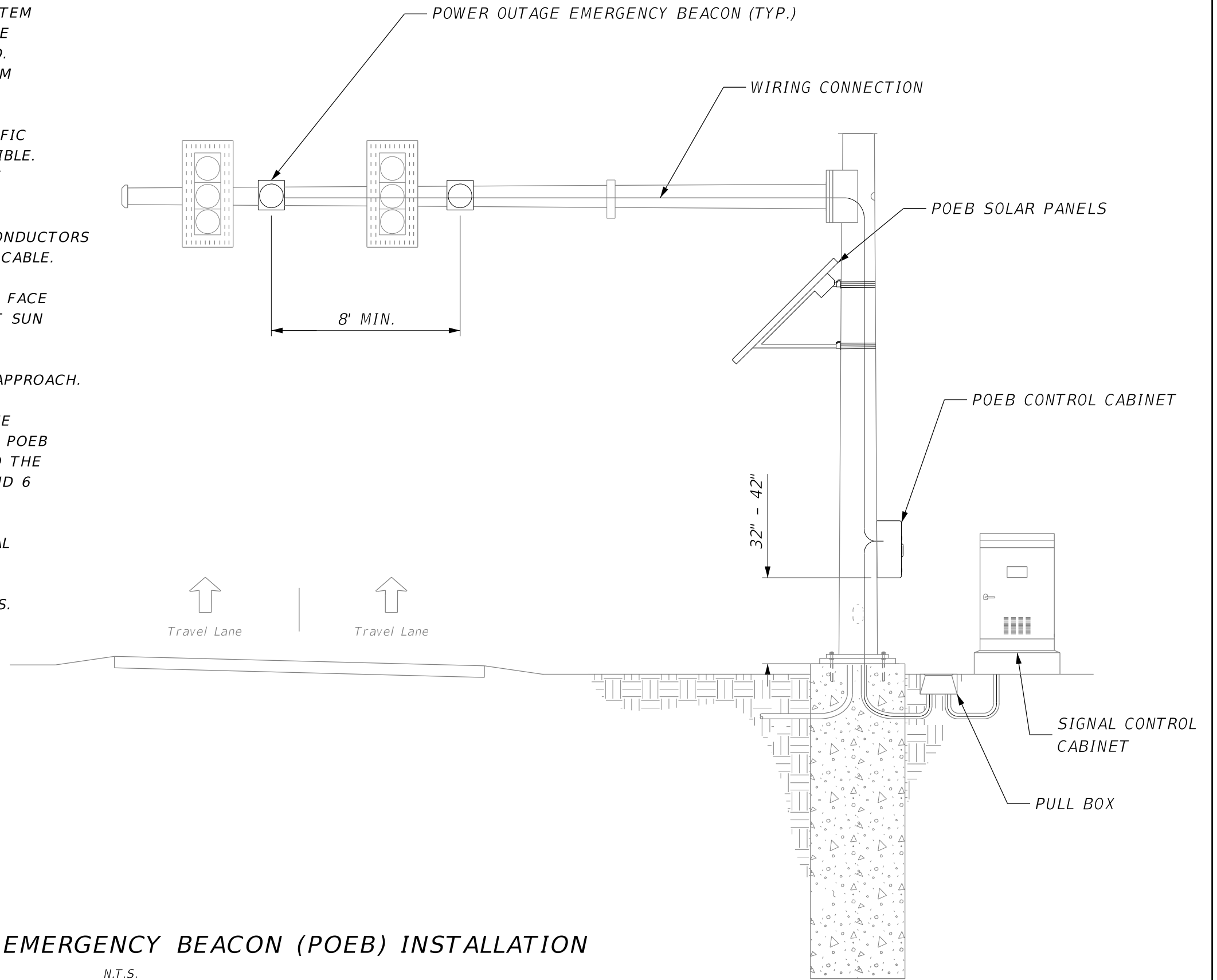
NOTE:
SEE SIGNALIZATION PLAN (X)
FOR ADDITIONAL PAY ITEMS.

LOCATION X

NOTE: PAY ITEM NUMBERS ARE FOR EXAMPLE PURPOSES ONLY.

GENERAL NOTES:

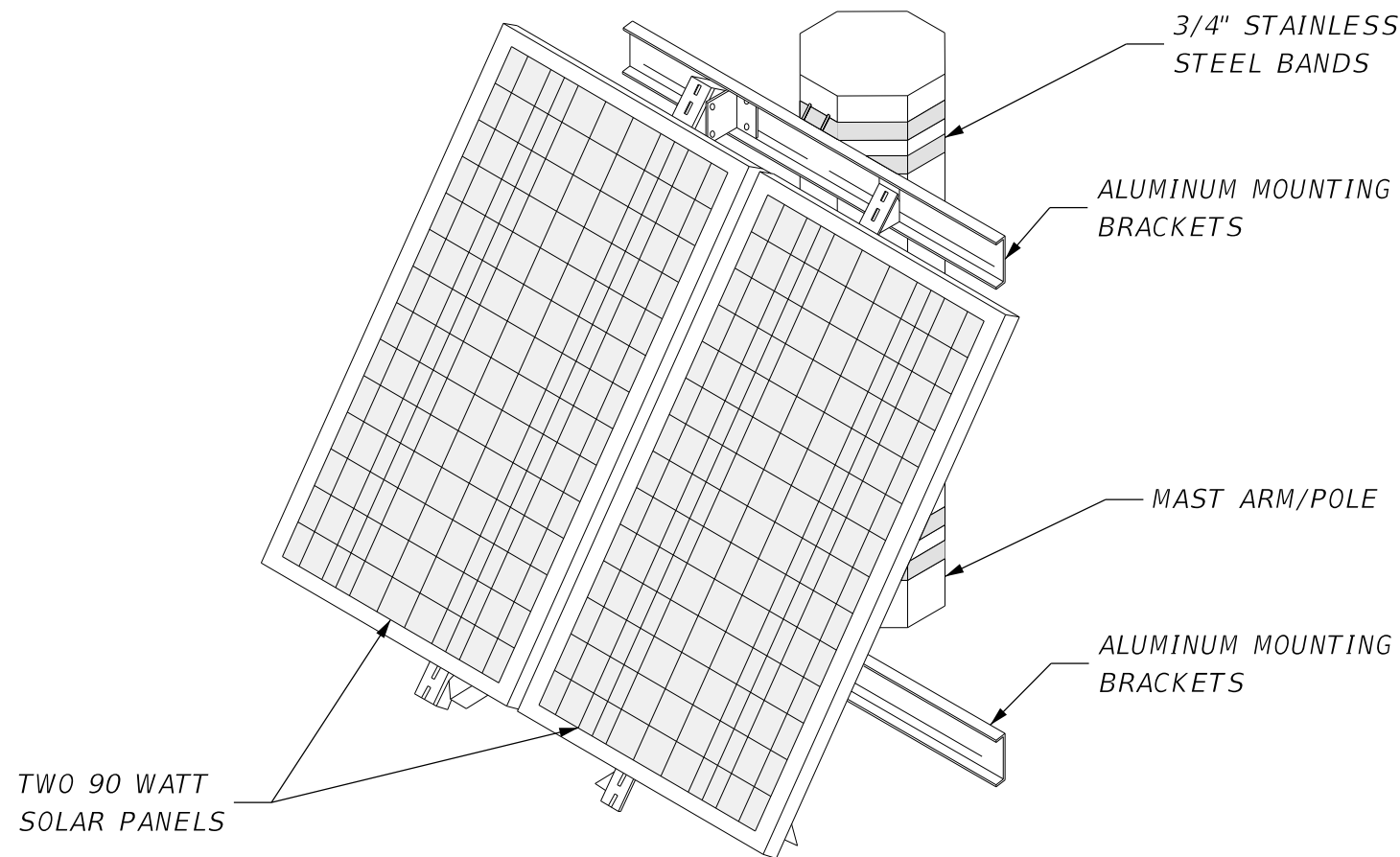
1. THE POWER OUTAGE EMERGENCY BEACON (POEB) SYSTEM MUST BE OPERABLE FOR A MINIMUM PERIOD OF THREE WEEKS ONCE POWER TO THE SIGNAL IS INTERRUPTED. THE SYSTEM MUST ALSO BE OPERABLE FOR A MINIMUM OF THREE DAYS WITHOUT SUNLIGHT EXPOSURE.
2. PLACE POEB CABINET ON SAME CORNER AS THE TRAFFIC SIGNAL CONTROLLER CABINET, OR AS CLOSE AS POSSIBLE. POEB CABINET SHOULD BE ON THE BACKSIDE OF THE POLE, AWAY FROM TRAFFIC.
3. MINIMUM 14 GAUGE COPPER WITH BLACK AND RED CONDUCTORS IMSA 50-2 MULTI-PAIR CABLE OR APPROVED IMSA 19-1 CABLE.
4. THE SOLAR PANELS MUST ALWAYS BE POSITIONED TO FACE SOUTH AND AT A 45-DEGREE ANGLE WITH SUFFICIENT SUN EXPOSURE.
5. PROVIDE A MINIMUM OF 2 POEB SIGNAL HEADS PER APPROACH.
6. POEB SIGNAL HEADS ARE TO BE PLACED BETWEEN THE THROUGH LANE SIGNAL HEADS, WITH THE LEFT MOST POEB PLACED BETWEEN THE OUTSIDE LEFT TURN LANE AND THE ADJACENT THROUGH LANE. REFER TO SHEETS 4, 5, AND 6 FOR POEB SIGNAL HEAD PLACEMENT.
7. USE ONLY STAINLESS STEEL HARDWARE ON ALL SIGNAL ATTACHMENTS.
8. DO NOT INSTALL BACKPLATES ON POEB SIGNAL HEADS.



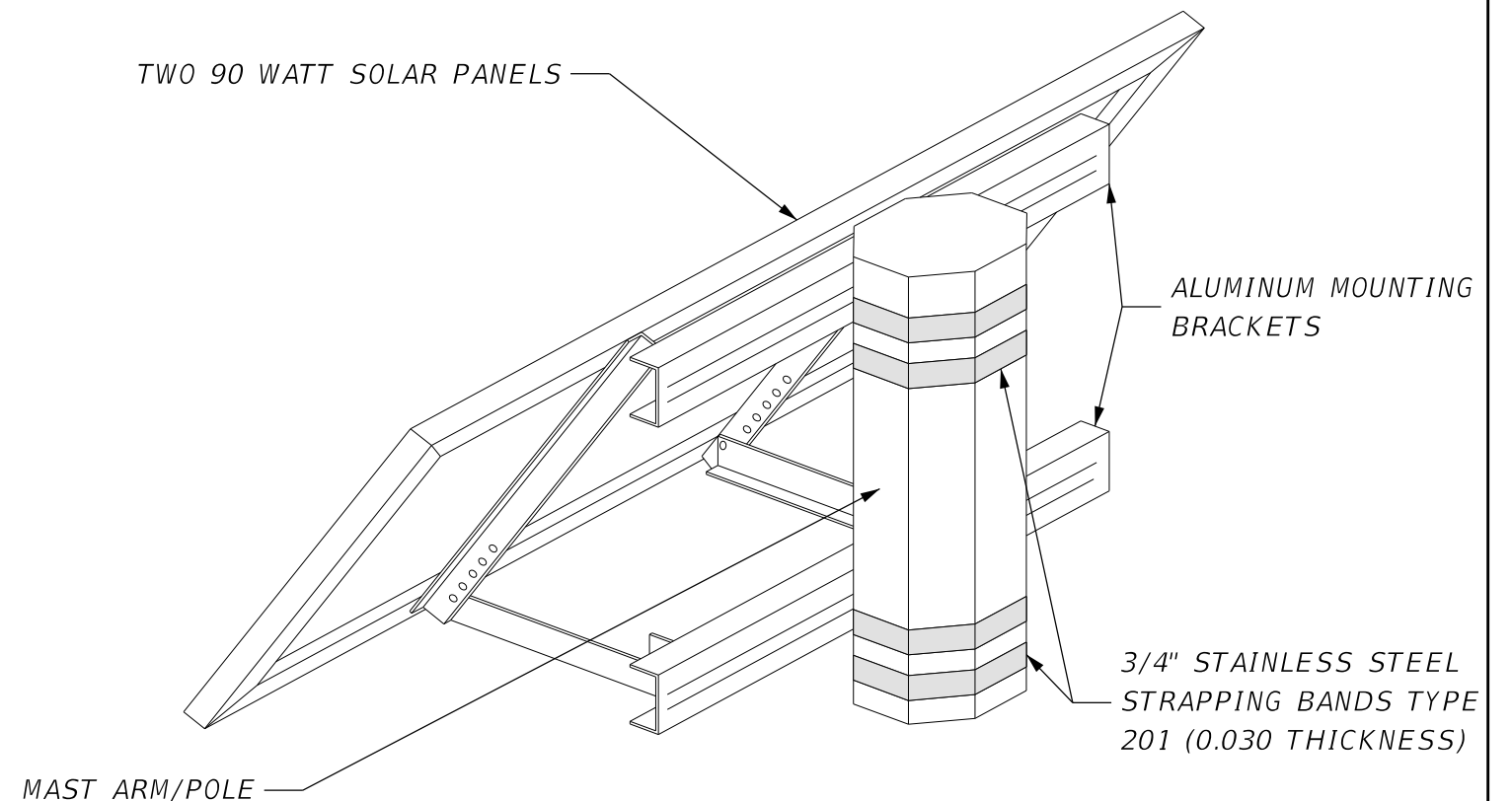
TYPICAL POWER OUTAGE EMERGENCY BEACON (POEB) INSTALLATION

N.T.S.

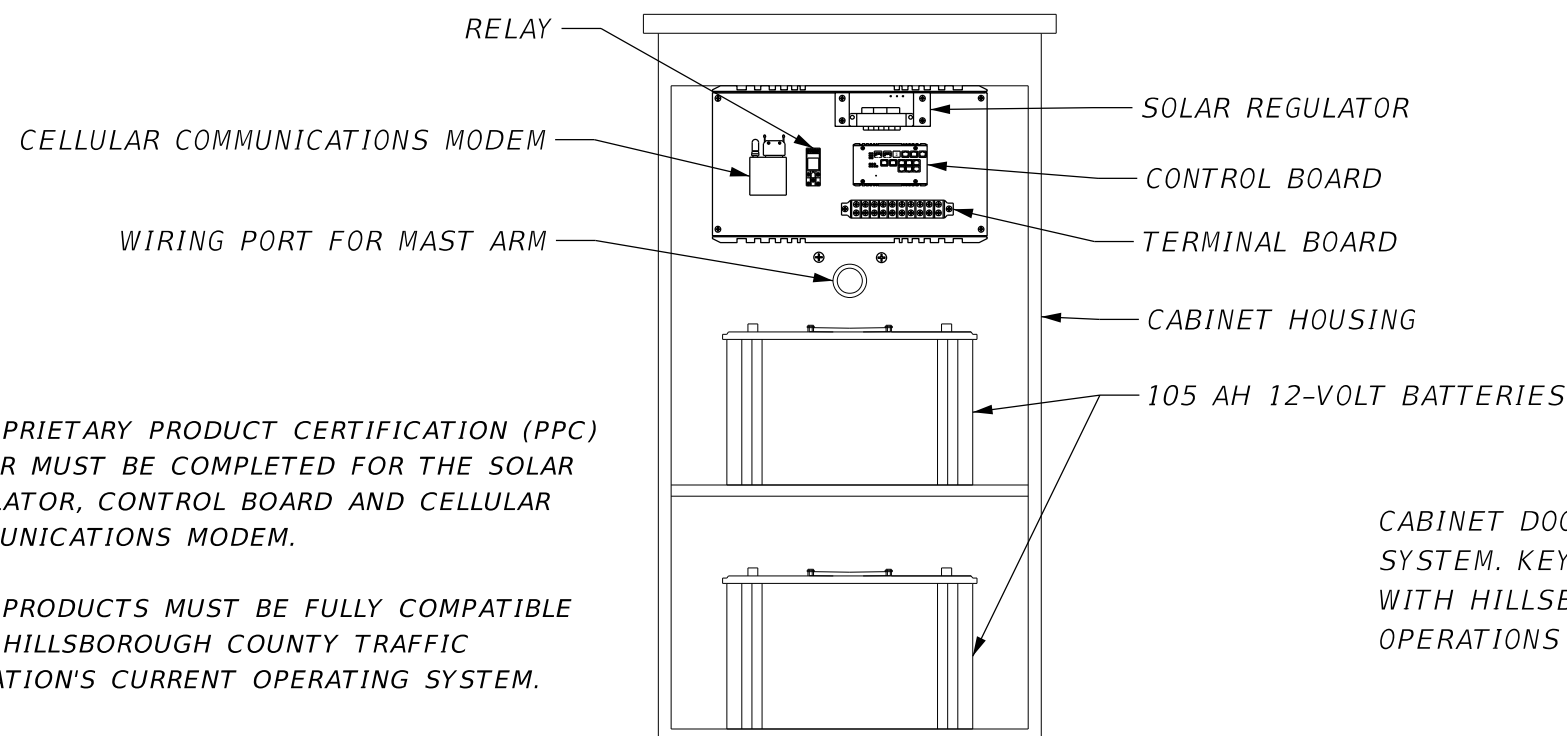
LAST REVISION 09/05/25	DESCRIPTION	 Hillsborough County Florida Standard Details	<i>POWER OUTAGE EMERGENCY BEACON INSTALLATION DETAILS</i>	INDEX POE-001	SHEET 1 of 6
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POEB SOLAR PANEL DETAIL (FRONTSIDE)



POEB SOLAR PANEL DETAIL (BACKSIDE)

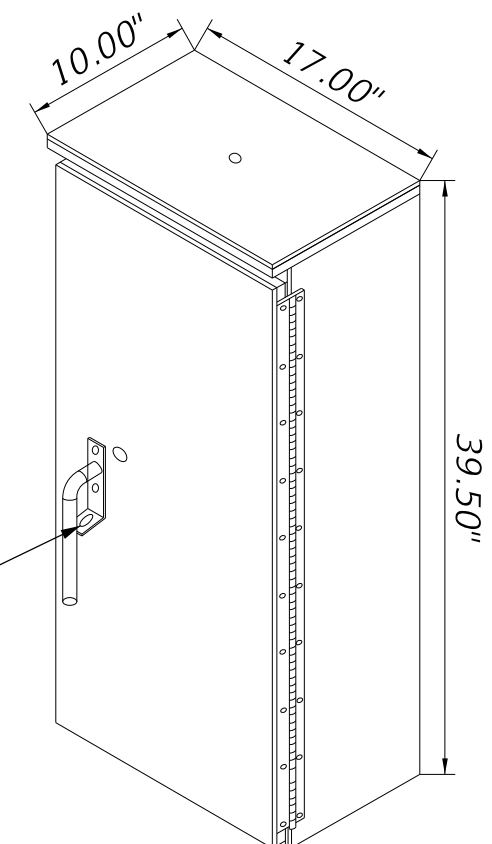


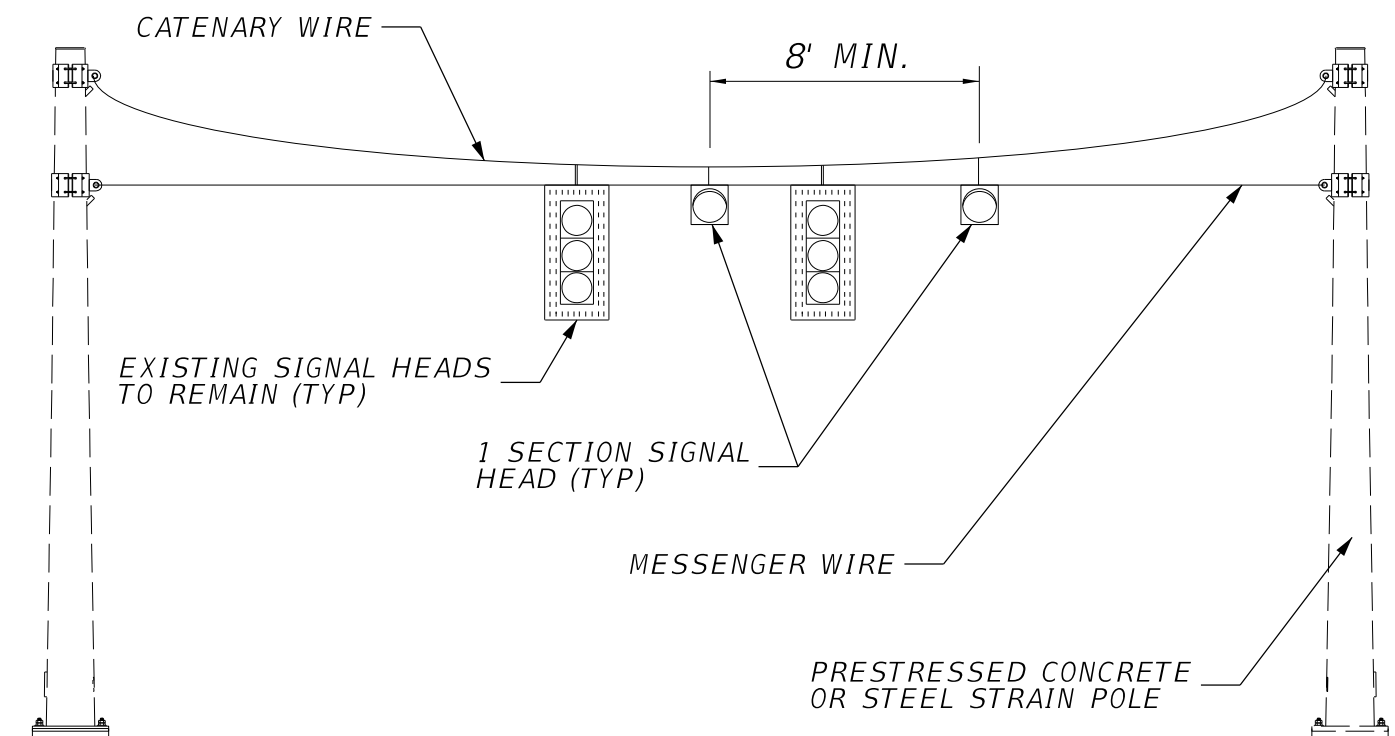
POEB CONTROLLER CABINET DETAIL

NOTES:

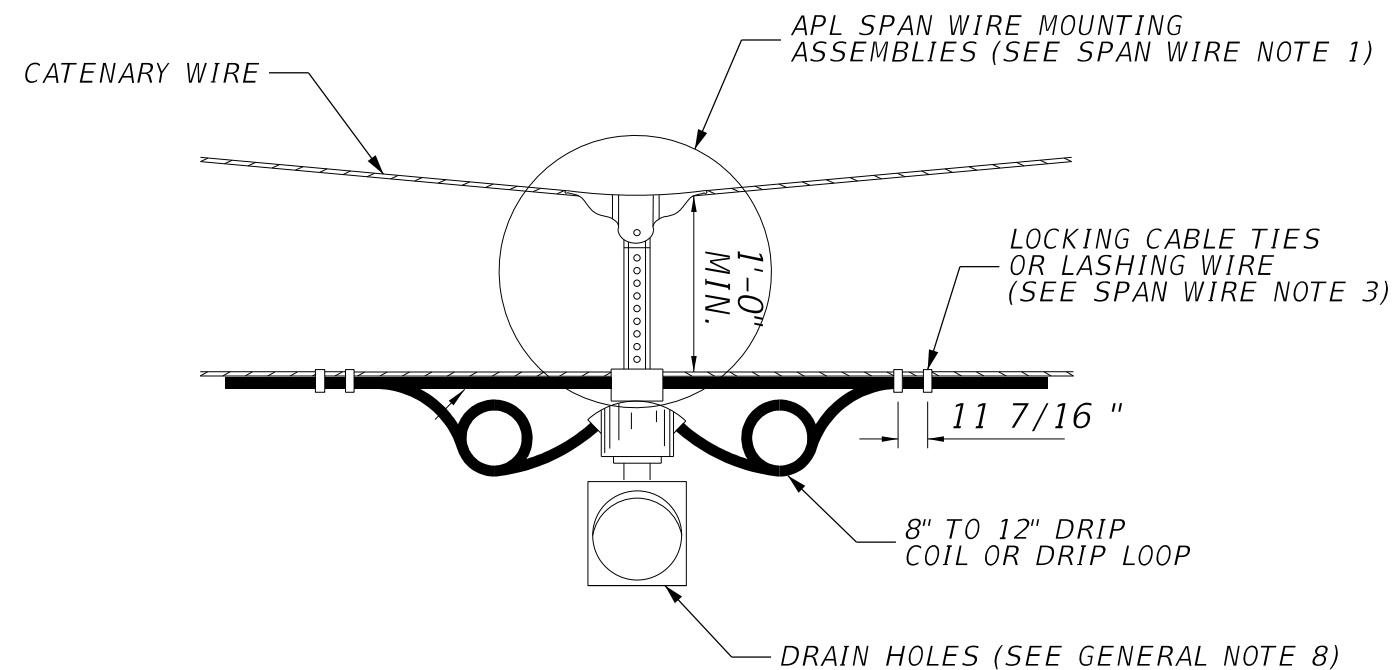
1. A PROPRIETARY PRODUCT CERTIFICATION (PPC) LETTER MUST BE COMPLETED FOR THE SOLAR REGULATOR, CONTROL BOARD AND CELLULAR COMMUNICATIONS MODEM.
2. POEB PRODUCTS MUST BE FULLY COMPATIBLE WITH HILLSBOROUGH COUNTY TRAFFIC OPERATION'S CURRENT OPERATING SYSTEM.
3. PROVIDE WIRING PORT WITH PROTECTIVE GROMMET ON THE MAST ARM UPRIGHT, POLES AND THE POEB CONTROLLER CABINET.

CABINET DOOR MUST HAVE A LOCKING SYSTEM. KEY MUST BE COORDINATED WITH HILLSBOROUGH COUNTY TRAFFIC OPERATIONS

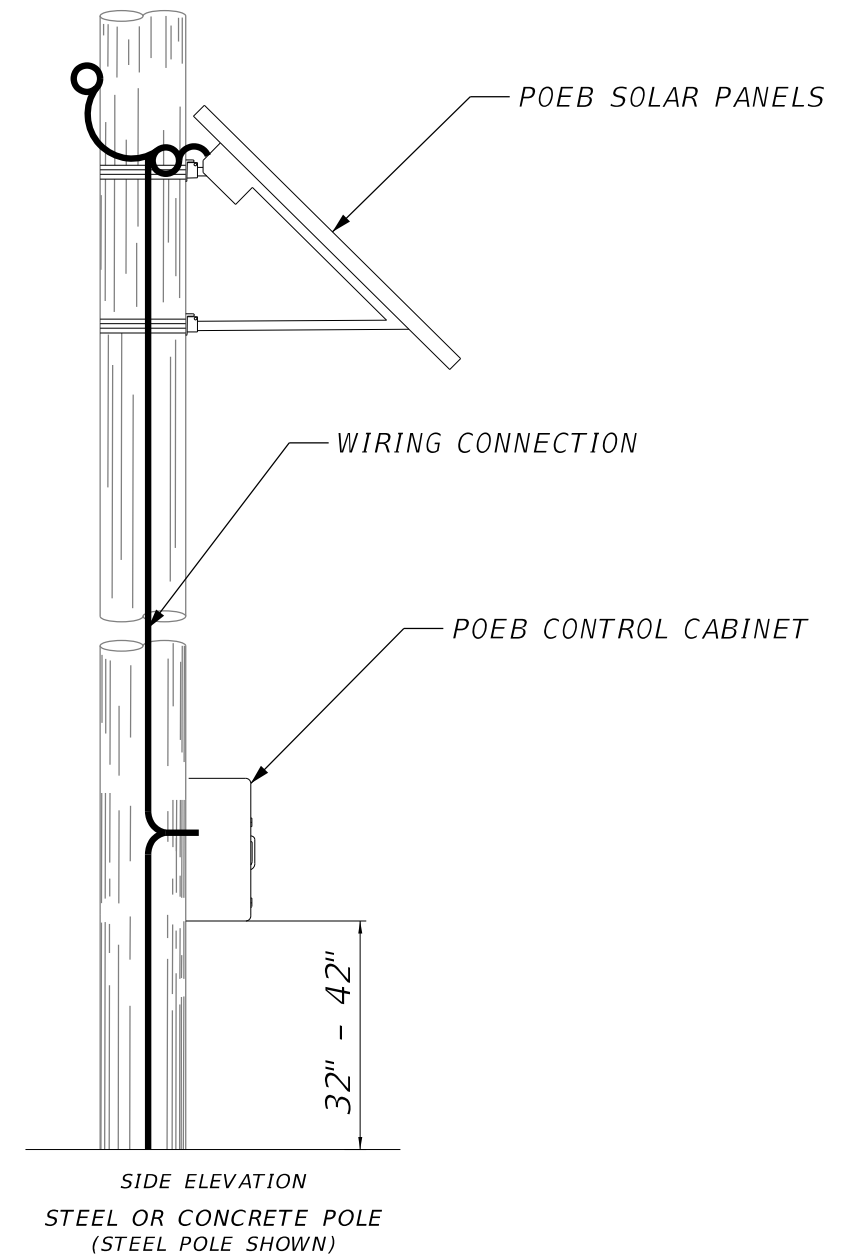




SPAN WIRE MOUNTING



SIGNAL ATTACHMENT



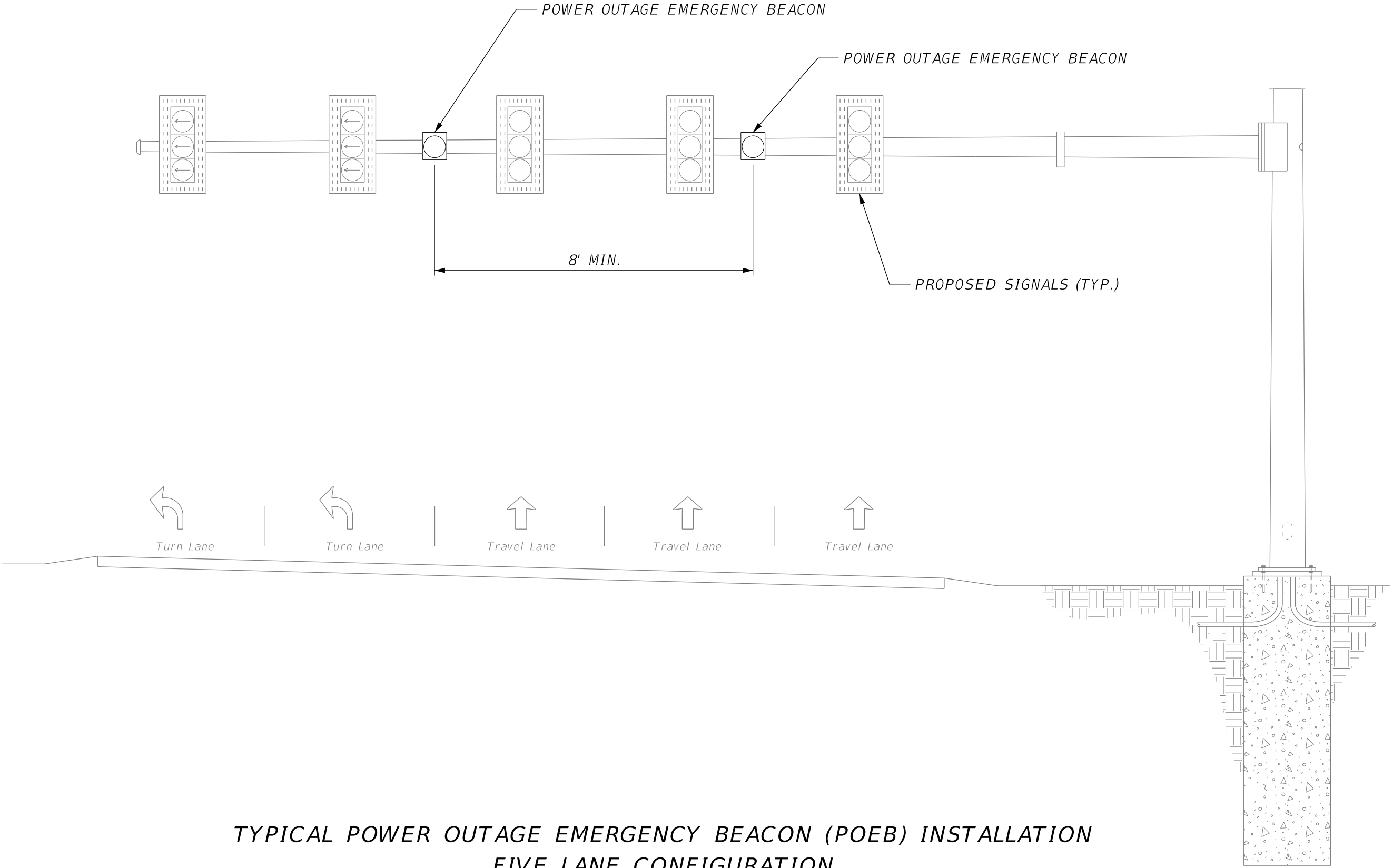
POEB MOUNTED CONTROLLER CABINET

SPAN WIRE NOTES:

1. REFER TO SHEET NO 1 OF 6 FOR POEB GENERAL NOTES.
2. USE ONLY SPAN WIRE MOUNTING ASSEMBLIES LISTED ON THE APL. FOR SPECIFIC DETAILS AND REQUIREMENTS, SEE THE VENDOR DRAWINGS ON THE APL.
3. LASHING WIRE SHALL BE USED FOR SPANS OF 12' OR GREATER. DURING CABLE INSTALLATION, CABLE SHALL BE UNLASHED AND RE-LASHED AS REQUIRED. NEW LASHING SHALL NOT BE PLACED OVER EXISTING LASHING RODS.
4. FIELD DRILL TWO 1/4" DRAIN HOLES IN THE BOTTOM OF THE INSTALLED SIGNAL HEADS.
5. FILL EXISTING HOLE WITH CONCRETE OR COVER WITH A NONCORROSIVE COVER PLATE IF CABINET MOUNTING REQUIRES RELOCATION OF HOLE IN THE CONCRETE POLE.

NOTE:

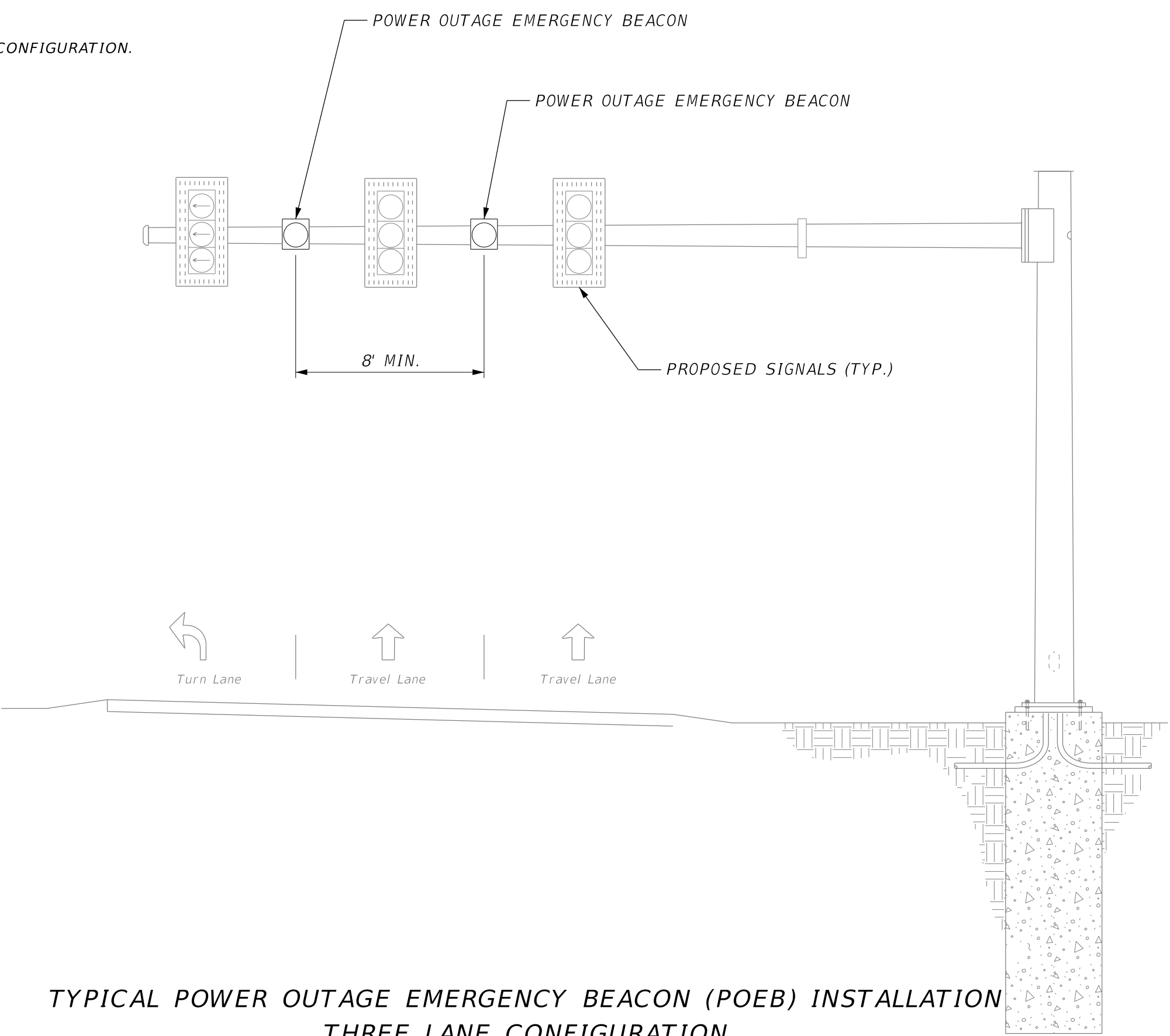
1. SPAN WIRE MUST MATCH SAME CONFIGURATION.



LAST REVISION 09/05/25	DESCRIPTION	 Hillsborough County Florida Standard Details	POWER OUTAGE EMERGENCY BEACON INSTALLATION DETAILS	INDEX POE-001	SHEET 4 of 6
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NOTE:

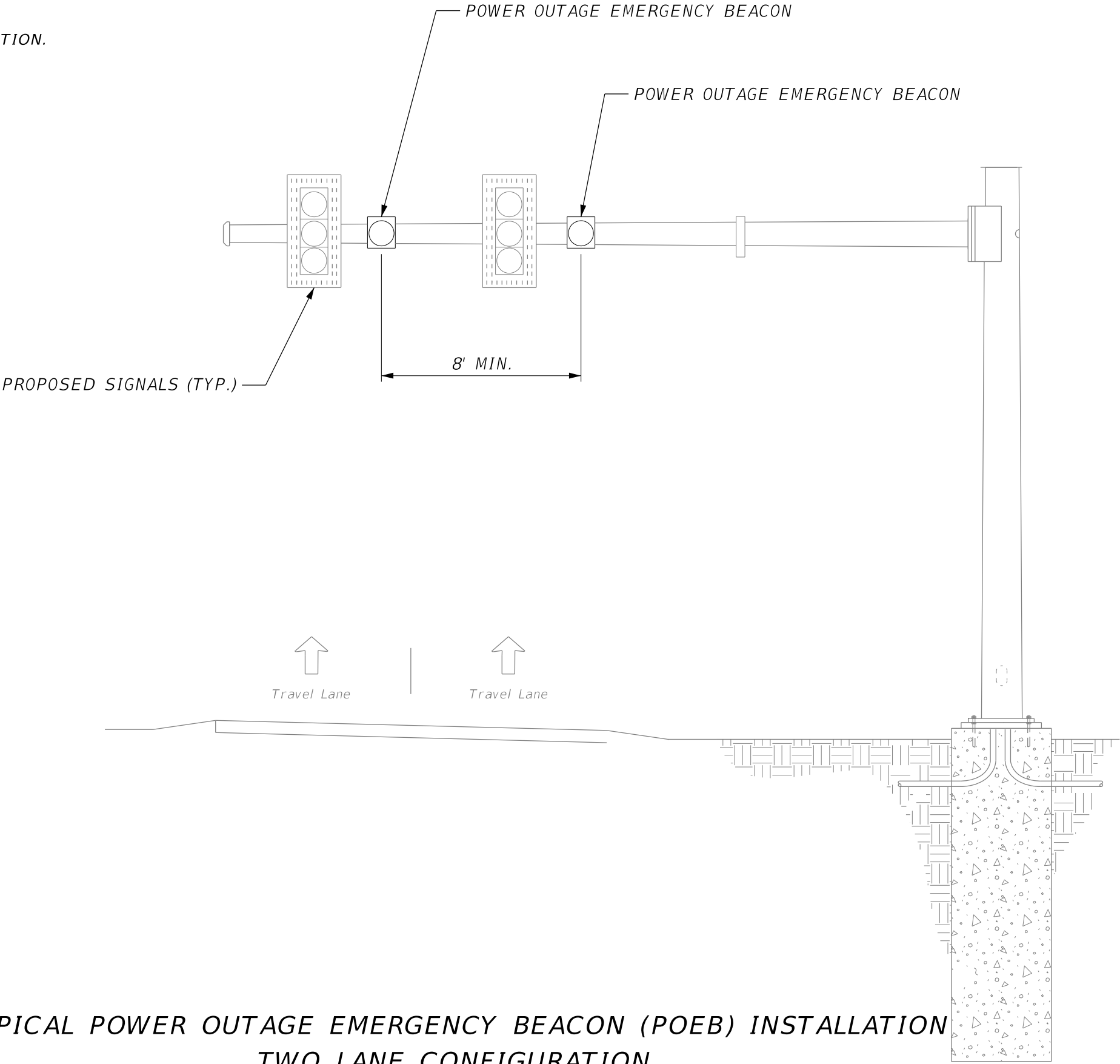
1. SPAN WIRE MUST MATCH SAME CONFIGURATION.



LAST REVISION 09/05/25	REVISION	DESCRIPTION	 Hillsborough County Florida Standard Details	<i>POWER OUTAGE EMERGENCY BEACON INSTALLATION DETAILS</i>	INDEX POE-001	SHEET 5 of 6
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NOTE:

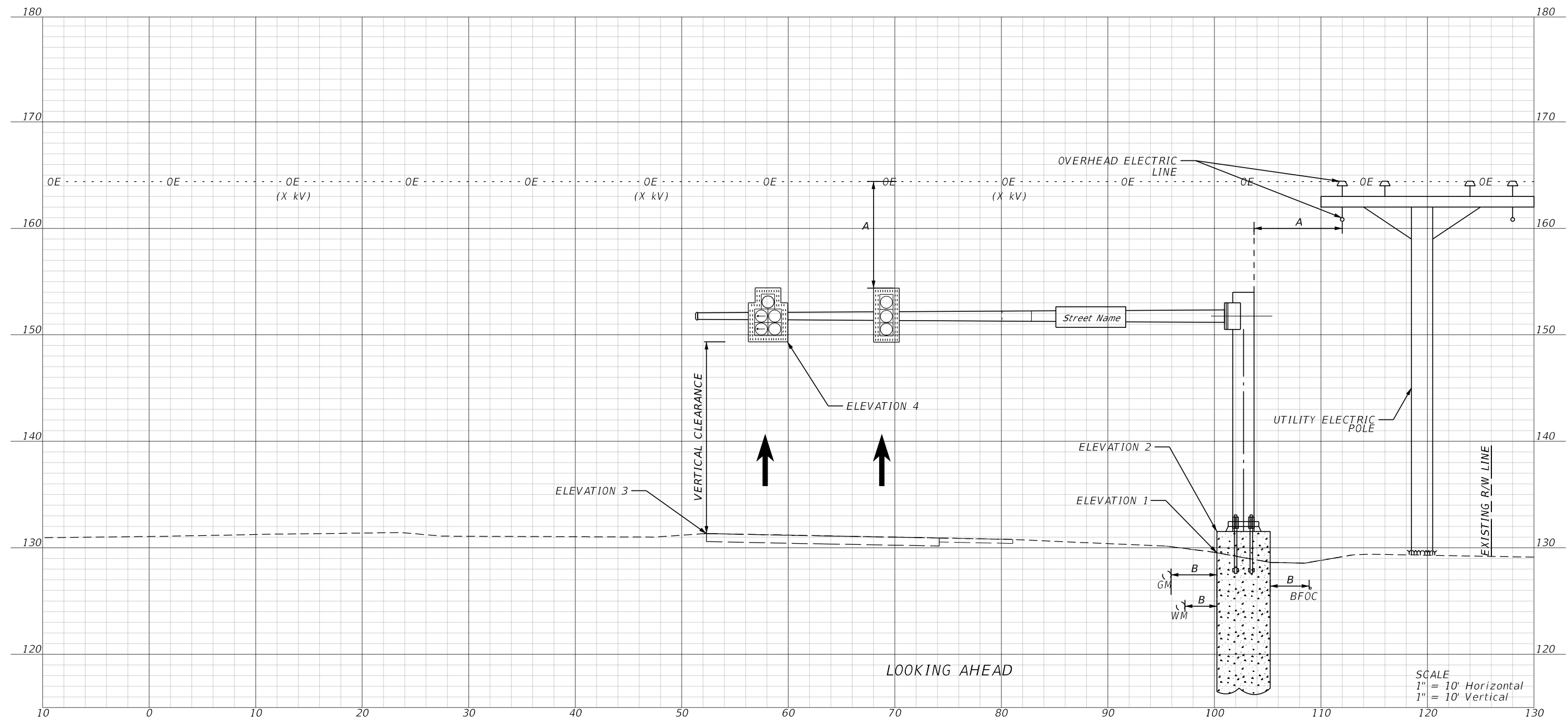
1. SPAN WIRE MUST MATCH SAME CONFIGURATION.



TYPICAL POWER OUTAGE EMERGENCY BEACON (POEB) INSTALLATION
TWO LANE CONFIGURATION

N.T.S.

LAST REVISION 09/05/25	REVISION	DESCRIPTION	 Hillsborough County Florida	Standard Details	POWER OUTAGE EMERGENCY BEACON INSTALLATION DETAILS	INDEX POE-001	SHEET 6 of 6
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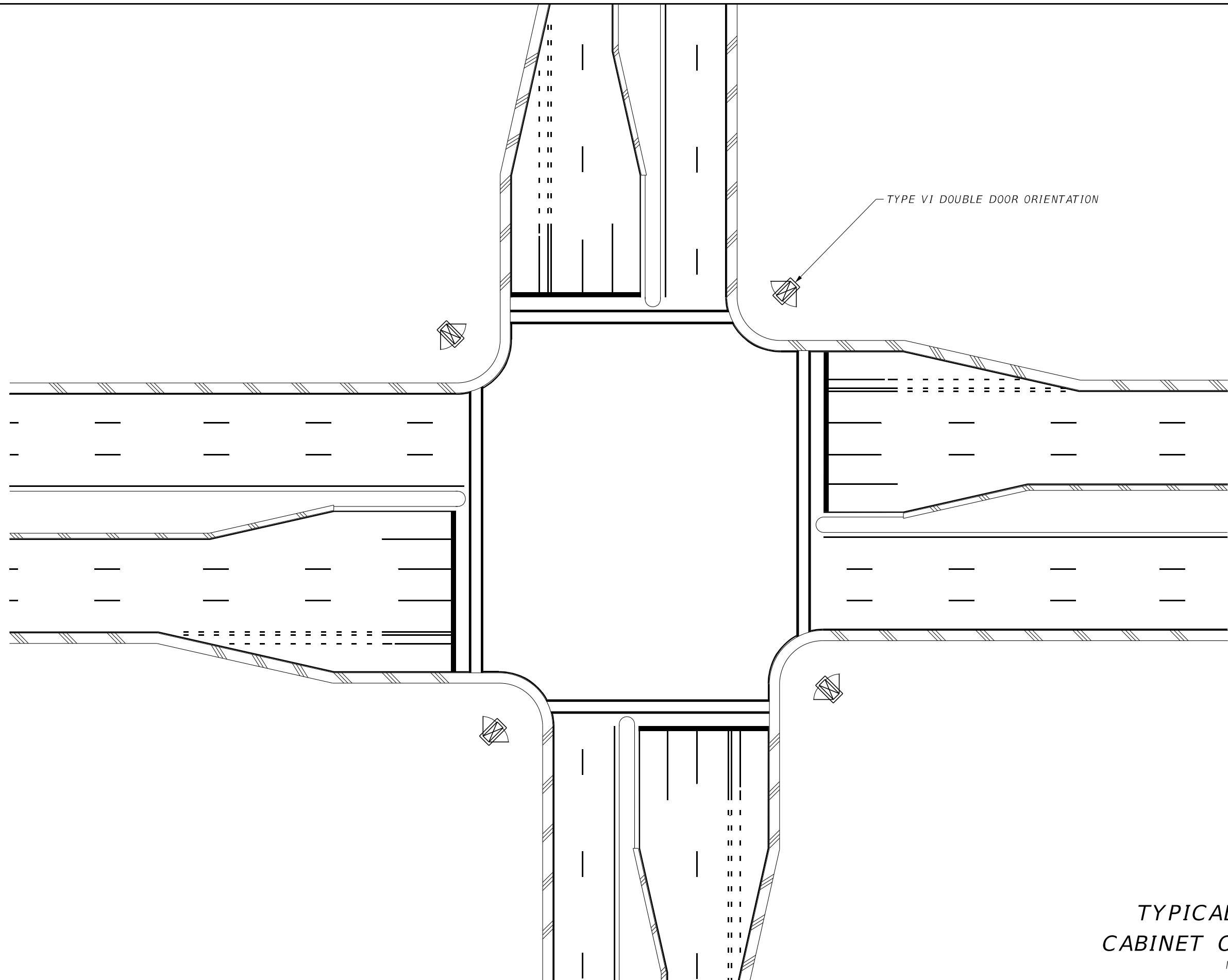
A - VERTICAL AND HORIZONTAL CLEARANCE DISTANCES. SEE OSHA RULE 29 CRF PART 1926 FOR MINIMUM DISTANCES.

B - HORIZONTAL CLEARANCE DISTANCE.

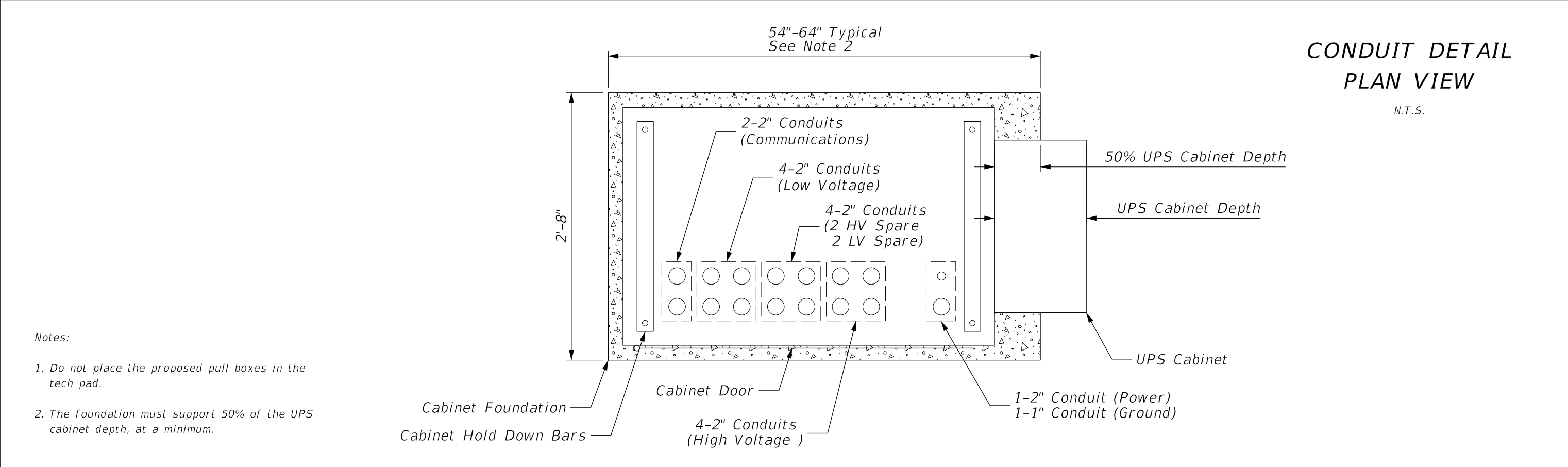
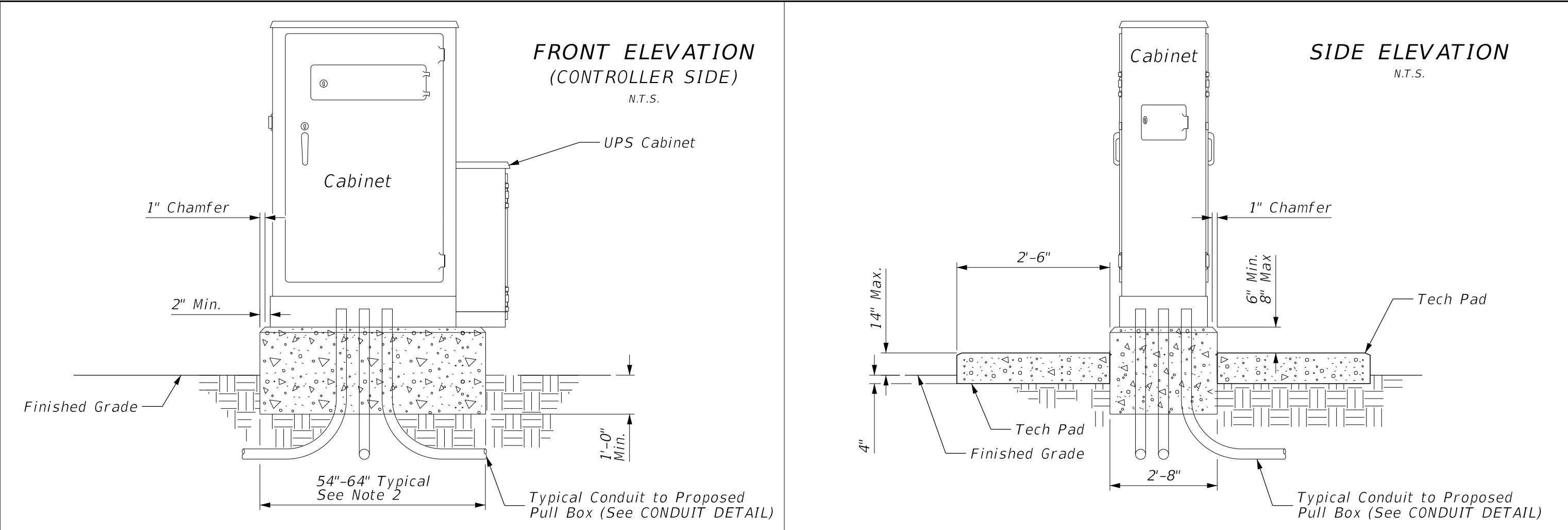
ELEVATIONS 1, 2, 3 AND 4. SEE HILLSBOROUGH COUNTY TRANSPORTATION DESIGN MANUAL, SECTION 2.4.2.5 FOR THE PROPOSED ELEVATIONS DESCRIPTIONS.

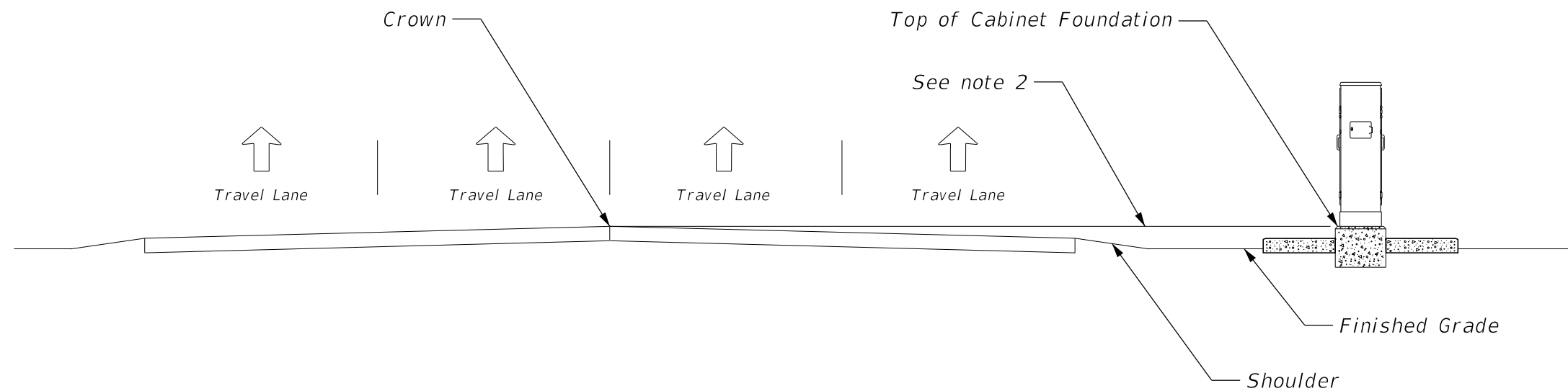
SIGNAL NO. X
STA. XXX+XX.XX

LAST REVISION 2/14/25	DESCRIPTION	 Hillsborough County Florida Standard Details	<i>SIGNAL CROSS SECTION DETAILS</i>	INDEX SCS-001	SHEET 1 OF 1
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TYPICAL TYPE VI
CABINET ORIENTATION
N.T.S.





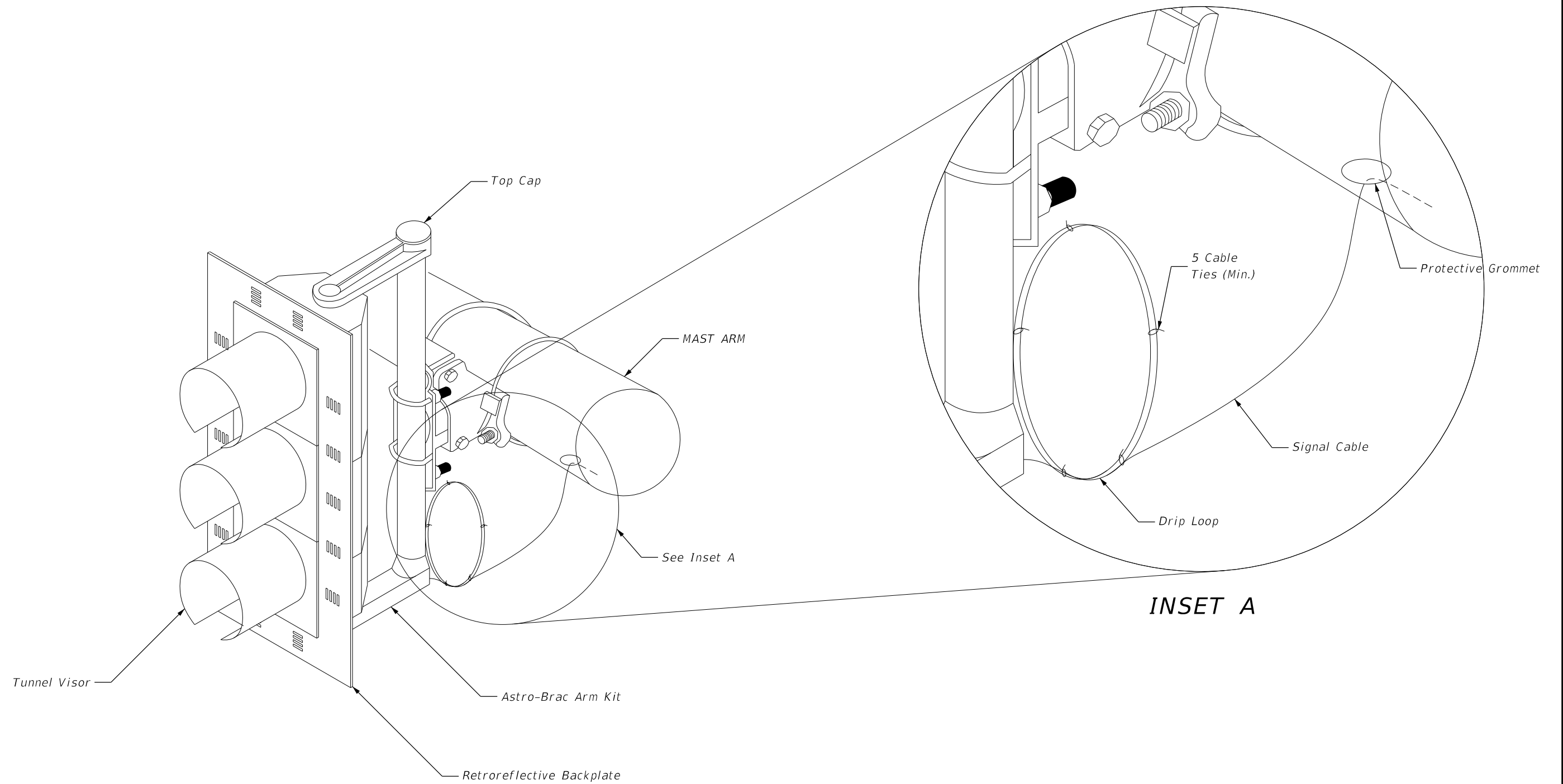
Notes:

1. See contract plans for location of traffic controller cabinet.
2. Ensure that the elevation of the top of the traffic controller cabinet foundation is at or above the elevation of the crown. Notify the County if the required foundation elevation exceeds the maximum allowable foundation specifications.

**FOUNDATION ELEVATION
ELEVATION VIEW**

N.T.S.

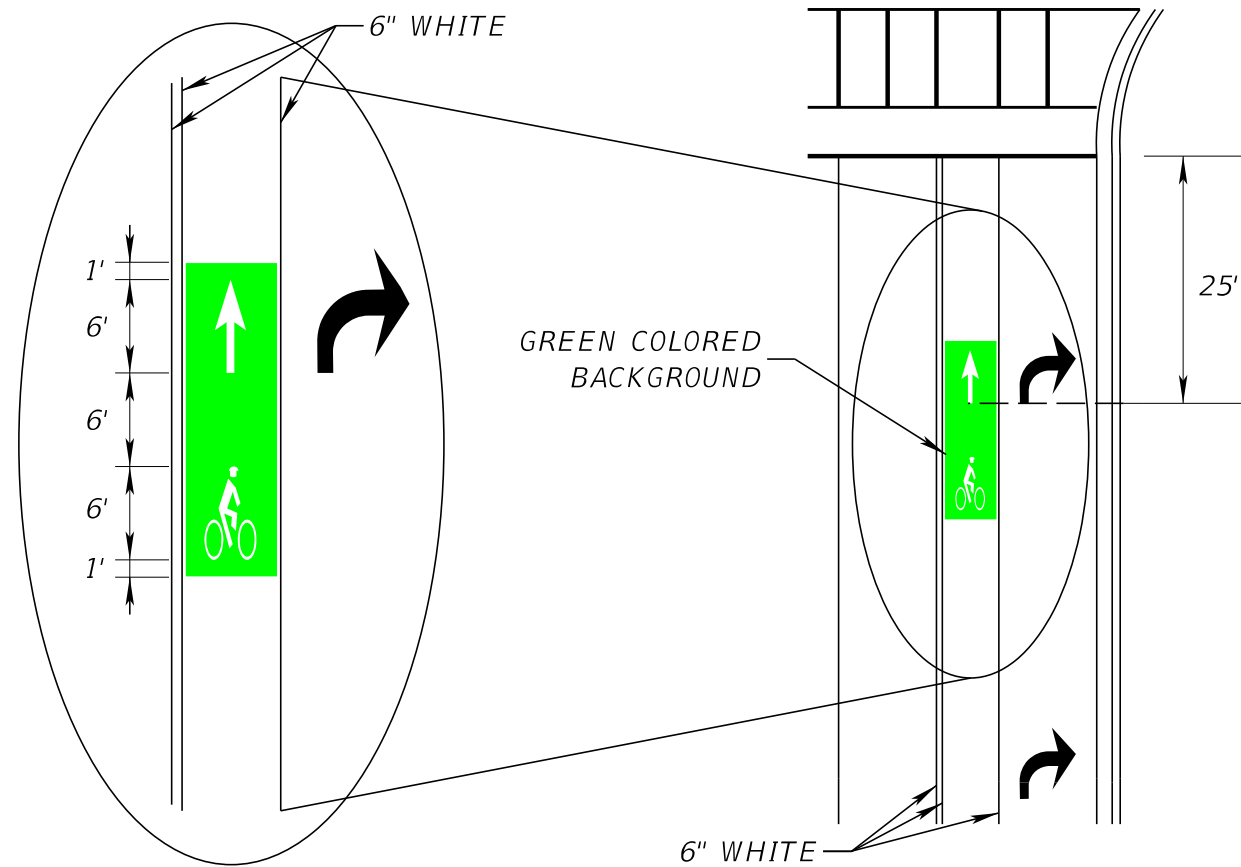
LAST REVISION 10/21/23	REVISION	DESCRIPTION	 Hillsborough County Florida	Standard Details	TRAFFIC CONTROLLER CABINET INSTALLATION DETAILS	INDEX TCC-001	SHEET 3 of 3
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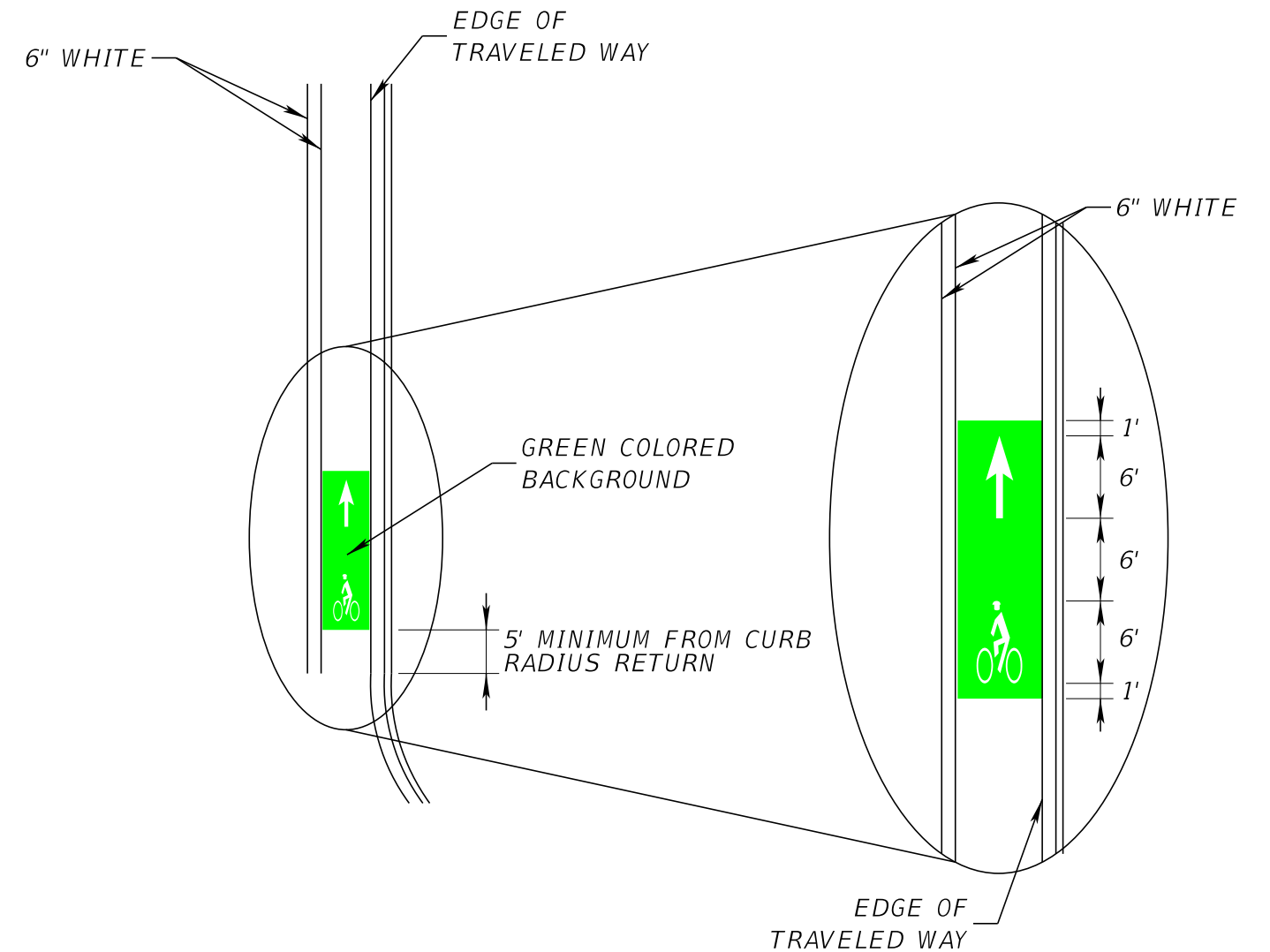
DRIP LOOP DETAIL

N.T.S.

LAST REVISION 02/14/25	REVISION DESCRIPTION	 Hillsborough County Florida Standard Details	TYPICAL DRIP LOOP DETAIL	INDEX TDL-001	SHEET 1 of 1
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PLACEMENT ADJACENT TO RIGHT TURN LANE
BETWEEN 6" WHITE STRIPING

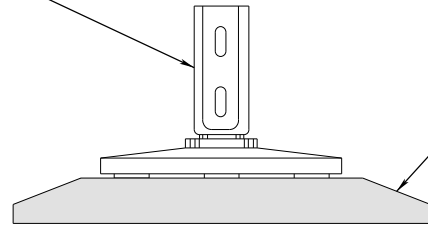


PLACEMENT ADJACENT TO EDGE OF TRAVELED WAY
WITH CURB AND GUTTER

NOTES:

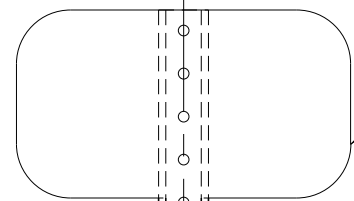
1. BICYCLE SYMBOLS AND ARROWS MUST BE WHITE ON GREEN BACKGROUND.
2. MAXIMUM WIDTH GREEN BLOCK IS 5 FEET ON SHOULDER CONDITION.
3. THE GREEN COLORED CONTRAST BLOCK FOR BICYCLIST AND ARROW SYMBOLS MUST NOT BE PLACED ADJACENT TO A TRAFFIC SEPARATOR, WHERE TRAFFIC SEPARATORS ARE LOCATED BETWEEN THE BIKE LANE AND TRAVEL LANE.

SNAP'N SAFE U CHANNEL
SIGNPOST SURFACE MOUNT
COUPLER OR EQUAL



CONCRETE SEPARATOR

BREAKAWAY U-CHANNEL POSTS INSTALLED ON CONCRETE



SIGN PANEL

7'-0"

6" MIN - 10" MAX

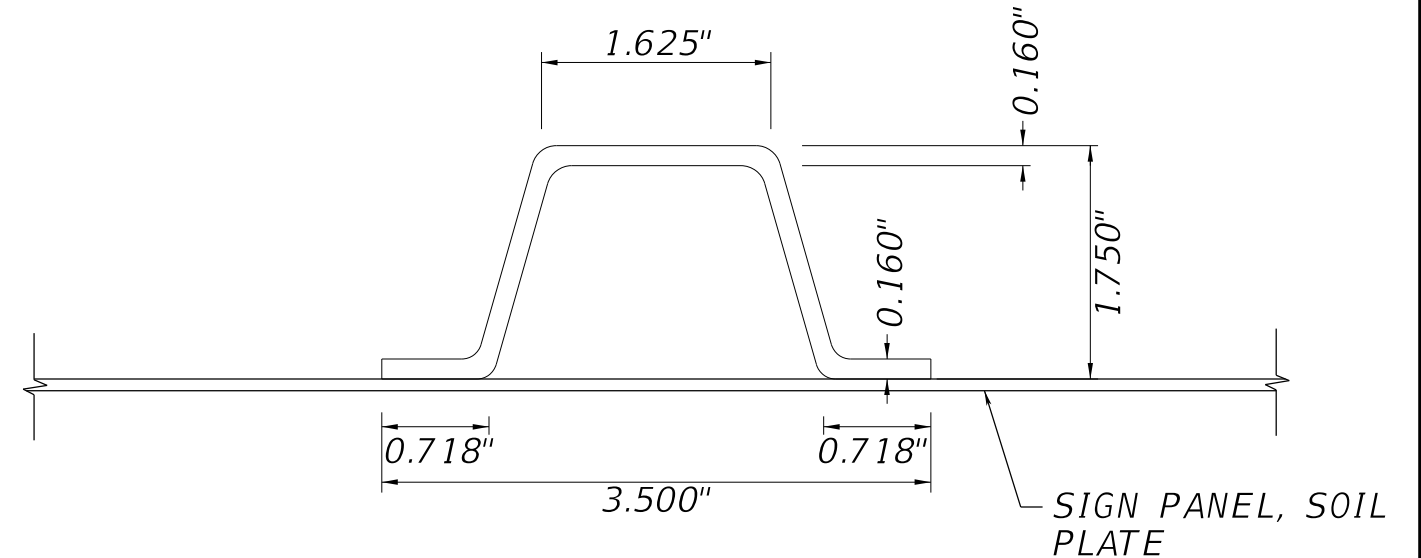
TRAPEZOIDAL
SOIL PLATE

SEE NOTE 2

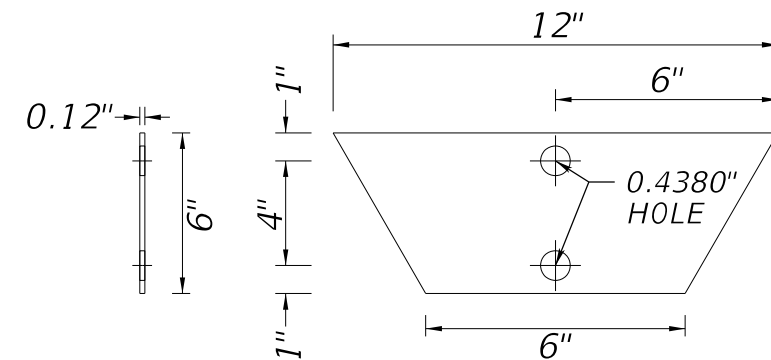
36"

DIRECT BURIAL U-CHANNEL POSTS

WEIGHT: 3 LBS/FT



POST SECTION PROPERTIES
(TOP VIEW)



TRAPEZOIDAL SOIL PLATE

NOTES:

1. USE BREAKAWAY DEVICES WHEN SIGNS ARE INSTALLED ON CONCRETE MEDIANS. CORE DRILLING IS NOT ALLOWED ON CONCRETE MEDIAN.
2. U-CHANNEL POST MUST BE INSTALLED IN PREFORMED HOLES WITH BACKFILL IN STRONG OR WEAK SOIL. POSTS MUST NOT BE MOUNTED IN CONCRETE.
3. TRAPEZOIDAL SOIL PLATE SHALL BE GALVANIZED OR ALUMINUM.
4. TRAPEZOIDAL SOIL PLATE SHALL BE INSTALLED ON THE WIDER SIZE OF THE POST SECTION AS SHOWN IN THE POST SECTION PROPERTIES DETAIL.
5. ALL HARDWARE 0.5 INCHES (0.5") AND SMALLER MUST BE TYPE 304 OR 316 PASSIVATED STAINLESS STEEL. HARDWARE LARGER THAN 0.5 INCHES SHALL BE GALVANIZED.

LAST
REVISION
07/18/25

REVISION

DESCRIPTION



Hillsborough
County Florida

Standard Details

POST MOUNTED SIGNS DETAILS

INDEX
PMS-001

SHEET
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