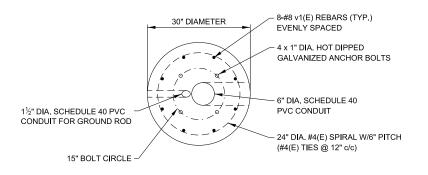
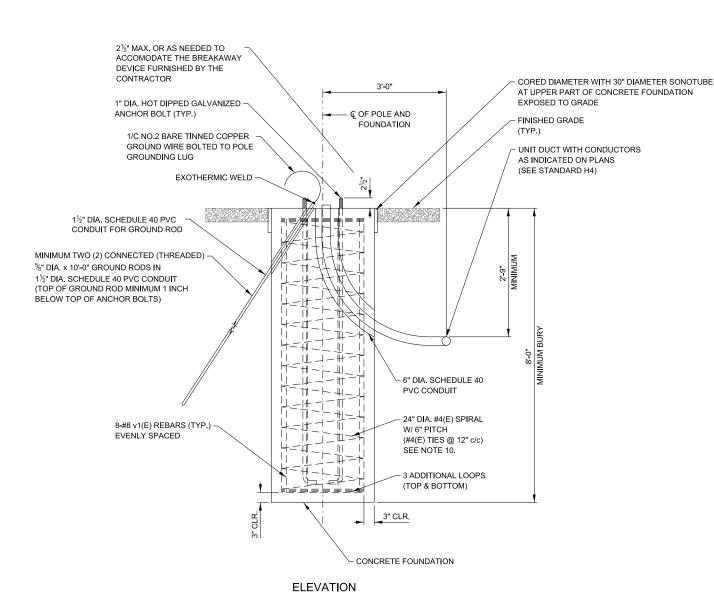
Illinois Tollway Standard Drawing Revisions

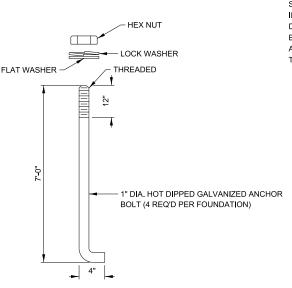
Section H	Roadway Lig	hting	
	Standard	Modification Summary Effective: 03-01-2025	5
		This set of standard drawings has been converted from v8i to OpenRoads.	
	H1-13	LIGHT STANDARD FOUNDATION	
	Sheet 1	Added Note 12 indicating the soil conditions used for foundation design.	
	Sheet 3	Corrected d(E) bar length to provide appropriate concrete cover.	
	H7-04	EXTERIOR CONTROL CONSOLE FOUNDATION DETAIL	
	Sheet 2	Revised the type B control console foundation.	





PLAN





ANCHOR BOLT DETAIL

NOTES:

AT LOCATIONS NOT SHIELDED BY A GUARDRAIL, THE LIGHT POLE FOUNDATION SHALL BE FLUSH WITH SURROUNDING AGGREGATE PAD AS DETAILED ON SHEETS 7 AND 8 OF THIS STANDARD. CROSS SLOPES OF THE AGGREGATE PAD SHALL BE PER THE FOLLOWING TARI F.

TARI F.

ADJACENT ROADWAY SIDESLOPE	REQUIRED CROSS SLOPE OF PAD
FORESLOPE 1:6H OR FLATTER	MATCH PROPOSED ROADWAY SIDESLOPE
FORESLOPE STEEPER THAN 1:6H	1:6H CROSS SLOPE
BACKSLOPE 1:4H OR FLATTER	MATCH PROPOSED ROADWAY SIDESLOPE
BACKSLOPE STEEPER THAN 1:4H	1:4H CROSS SLOPE

- AGGREGATE PADS SHALL BE CONSTRUCTED OF AGGREGATE SHOULDERS WITH FILTER FABRIC. TYPE B. 4"
- B. PROVIDE SEEDING, POTASSIUM FERTILIZER NUTRIENT, AND EROSION CONTROL BLANKET
 AS REQUIRED.
- 4. THE TOP OF FOUNDATION SHALL BE AT THE SAME ELEVATION AS THE GRADED AGGREGATE PAD AT THE CENTER OF THE LIGHT POLE WHEN SLOPED AS DESCRIBED IN NOTE 1.
- ALL SLOPES ARE EXPRESSED AS UNITS OF VERTICAL DISPLACEMENT TO UNITS OF HORIZONTAL DISPLACEMENT (V:H).
- ALL GROUND MOUNTED LIGHT POLES SHALL BE PROVIDED WITH AN ACCEPTED FHWA BREAKAWAY BASE OR DEVICE PER THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS SECTION 1070.
- FOR DETAILS OF FUSE HOLDER, POLE BASE WIRING AND CONDUCTOR SPLICE SEE STANDARD H2
- 8. ALL REINFORCEMENT BARS SHALL BE EPOXY COATED.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 10. FOR ALL MEDIAN BARRIER FOUNDATIONS, THE ANCHOR BOLTS SHALL BE CENTERED AROUND THE MEDIAN BARRIER WALL CENTERLINE.
- 11. ADJUST SPIRAL BAR SPACING AS NEEDED TO ACCOMMODATE CONDUIT ENTRANCE.
- THE FOUNDATION DETAILS SHOWN ARE BASED ON THE PRESENCE OF MOSTLY COHESIVE SOIL CONDITIONS (SILTY OR SANDY CLAY), WITH AN AVERAGE UNCONFINED COMPRESSIVE STRENGTH (QU) > 1.25 TON/SQ. FT. WHICH MUST BE DETERMINED BY PREVIOUS SOIL INVESTIGATIONS AT THE JOBSITE. WHEN OTHER CONDITIONS ARE INDICATED, THE BORING DATA SHALL BE INCLUDED IN THE PLANS AND THE FOUNDATION DIMENSIONS SHOWN SHALL BE THE RESULT OF SITE SPECIFIC DESIGNS. IF CONDITIONS ENCOUNTERED IN THE FIELD ARE DIFFERENT THAN THOSE INDICATED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DETERMINE IF THE FOUNDATION DIMENSIONS NEED TO BE MODIFIED.

Illinois Tollway

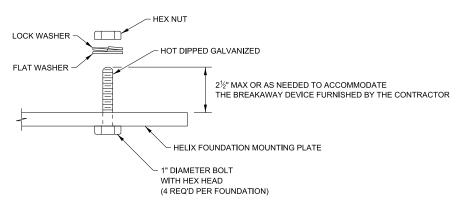
H1-13

1 of 10

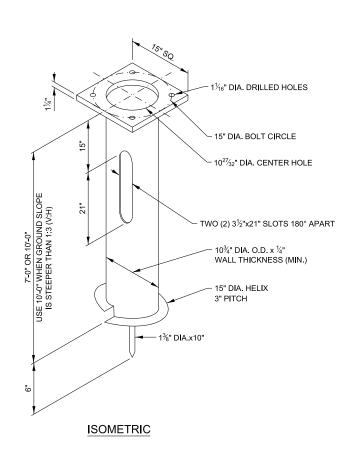
GRADING DETAILS AND NOTES.

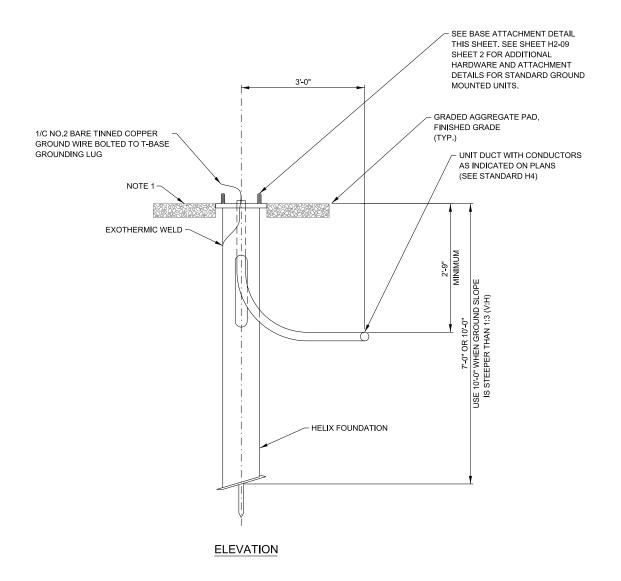
Maran Mashif 03/01/2025

LIGHT STANDARD FOUNDATION DETAILS - CONCRETE (GROUND MOUNTED UNITS)



BASE ATTACHMENT DETAIL







03/01/2025

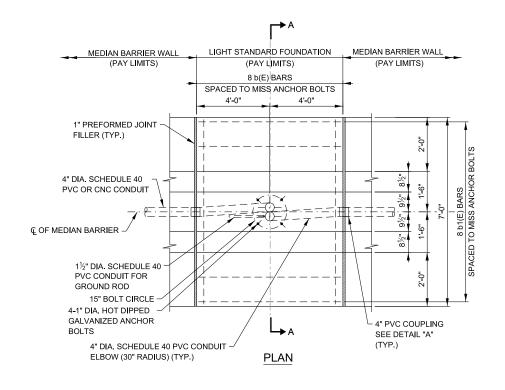
LIGHT STANDARD FOUNDATION DETAILS - HELIX (GROUND MOUNTED UNITS)

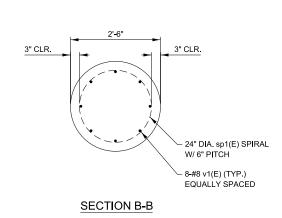
NOTE: SEE SHEET 1 OF THIS SERIES FOR NOTES.

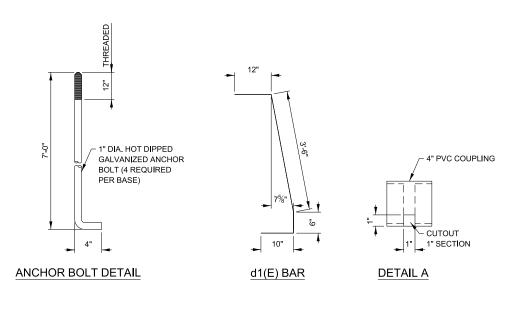
LIGHT STANDARD FOUNDATION

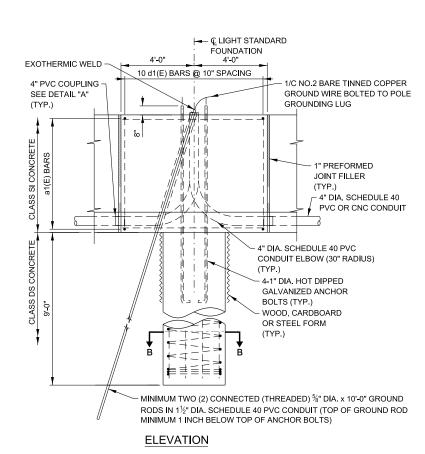
SHEET: 2 OF 10 H1-13

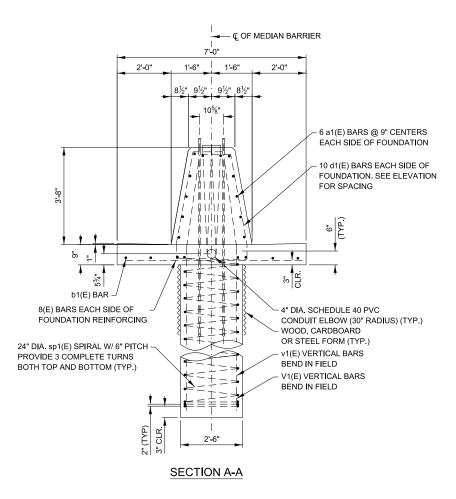
Illinois Tollway











	REINFO	RCEME	NT BARS SC	HEDULE	
BAR	NO.	SIZE	LENGTH	WT. LB.	SHAPE
a1(E)	12	#4	7'-6"	60	
b(E)	8	#4	6'-6"	35	
b1(E)	8	#4	7'-8"	41	
d1(E)	20	#4	5'-10"	78	
sp1(E)	1	#4	*	99	≶
v1(E)	8	#8	11'-9"	251	

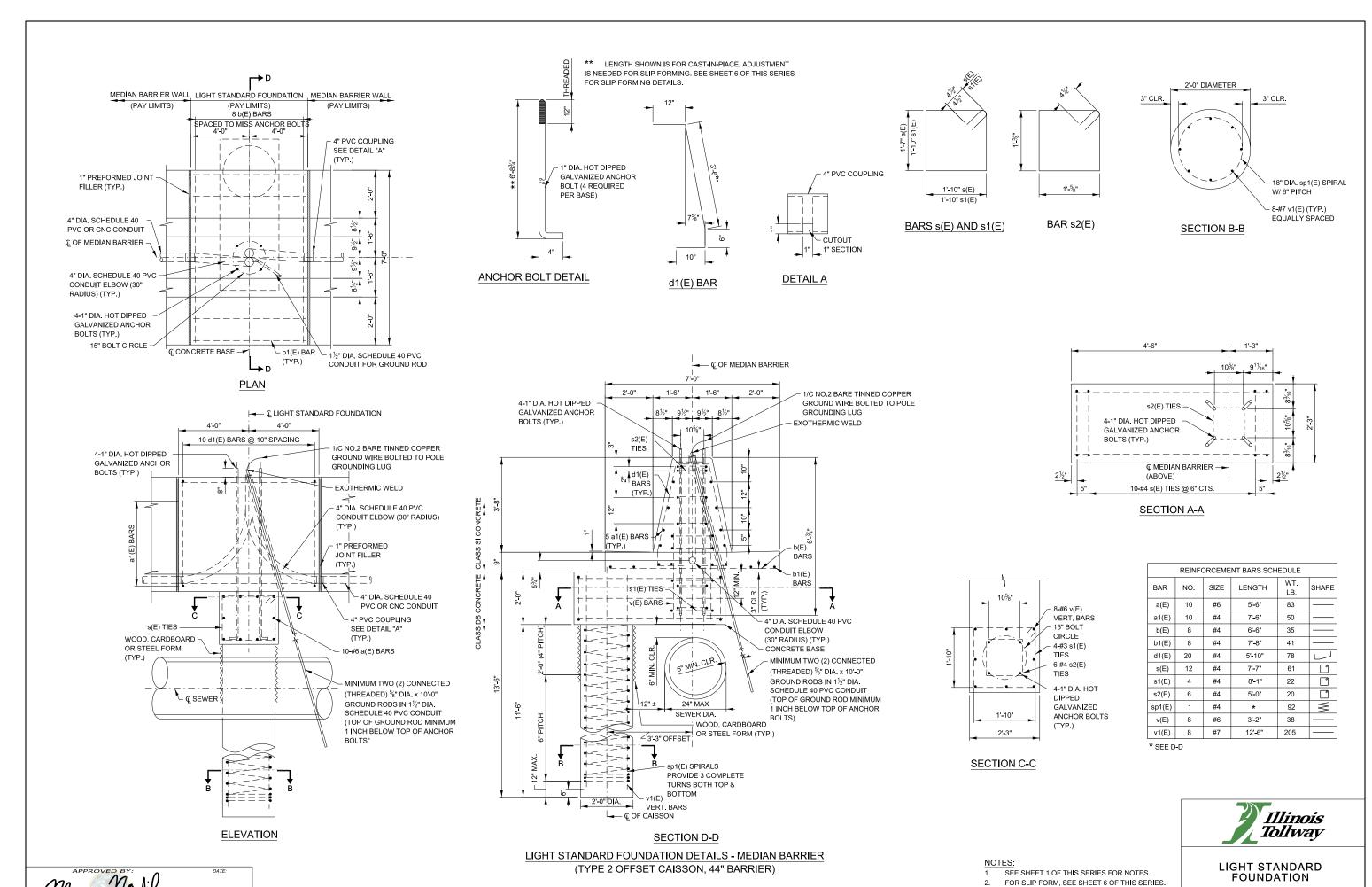
* SEE SECTION A-A

- 1. SEE SHEET 1 OF THIS SERIES FOR NOTES.
- 2. FOR SLIP FORM, SEE SHEET 6 OF THIS SERIES.



LIGHT STANDARD FOUNDATION

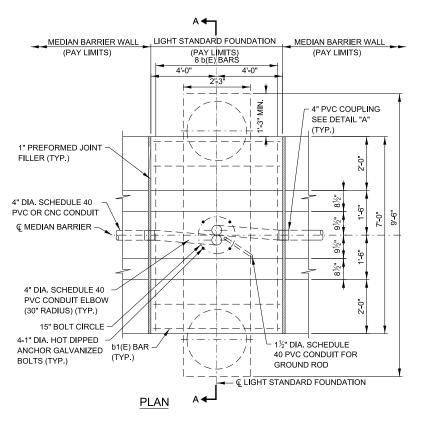
H1-13 3 OF 10

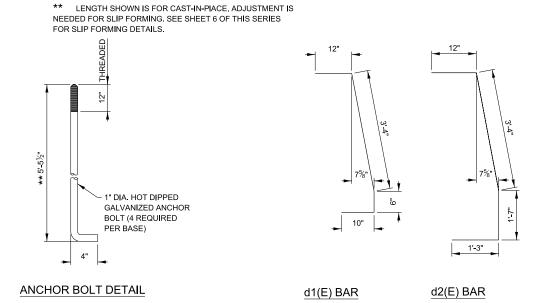


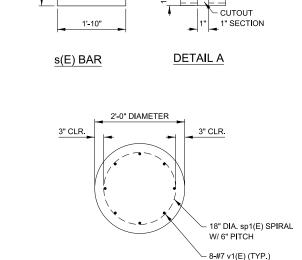
03/01/2025

ERSION: STANDARD: D25-03 H1-13

4 OF 10







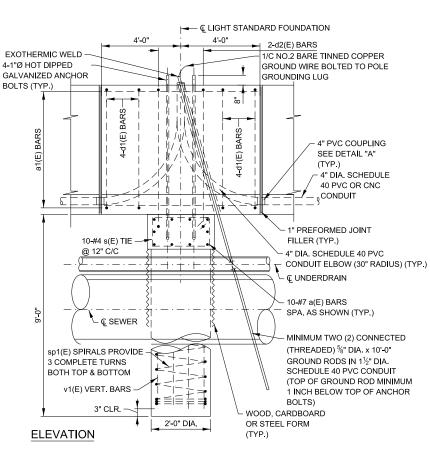
4" PVC COUPLING

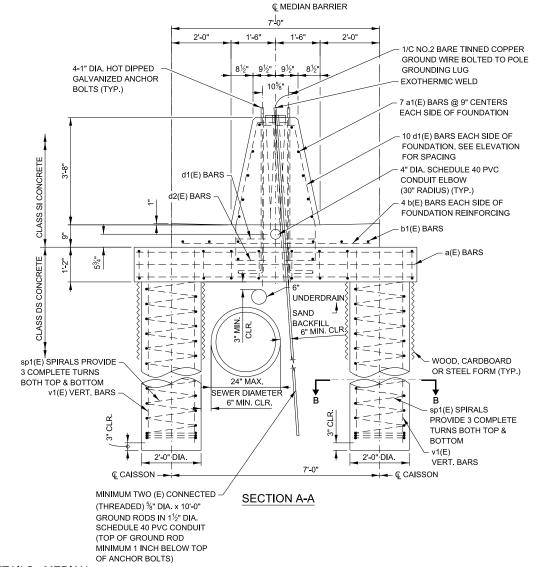
EQUALLY SPACED

	REINF	ORCEME	NT BARS SCH	HEDULE	
BAR	NO.	SIZE	LENGTH	WT. LB.	SHAPE
a(E)	10	#7	9'-0"	184	
a1(E)	14	#4	7'-6"	70	
b(E)	8	#4	6'-6"	35	
b1(E)	4	#4	7'-8"	21	
d1(E)	16	#4	5'-8"	62	
d2(E)	4	#4	7'-2"	20	
s(E)	10	#4	5'-11"	40	
sp1(E)	2	#4	*	134	≶
v1(E)	16	#7	9'-9"	319	

SECTION B-B

* SEE ELEVATION





NO

- 1. SEE SHEET 1 OF THIS SERIES FOR NOTES.
- 2. FOR SLIP FORM, SEE SHEET 6 OF THIS SERIES.



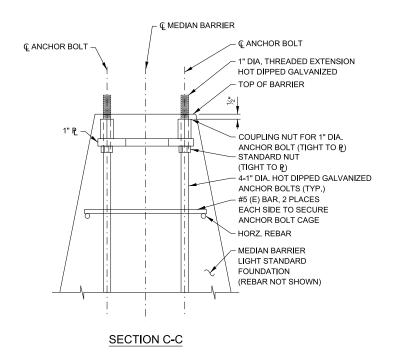
LIGHT STANDARD FOUNDATION

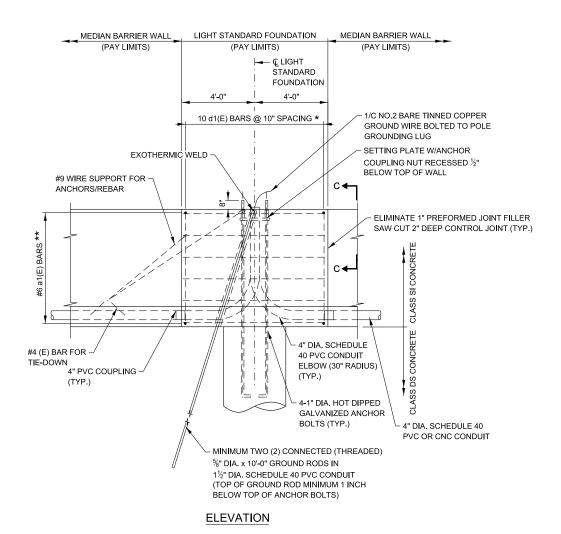
5 OF 10

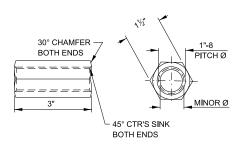
ERSION: STANDARD: 1025-03 H1-13

Maran Nashil 03/01/2025

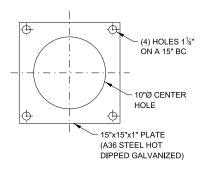
LIGHT STANDARD FOUNDATION DETAILS - MEDIAN BARRIER (TYPE 3 STRADDLED CAISSON, 44" BARRIER)







COUPLING NUT



SETTING PLATE

* #6 d1(E) BAR REPLACES #4 d1(E) BAR ** #6 a1(E) BAR REPLACES #4 a1(E) BAR

> Illinois Tollway

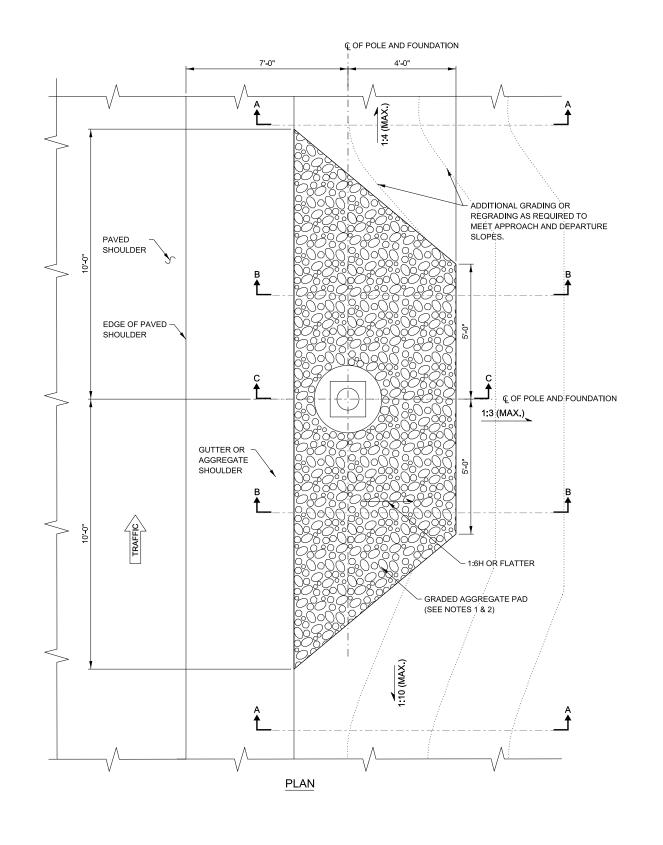
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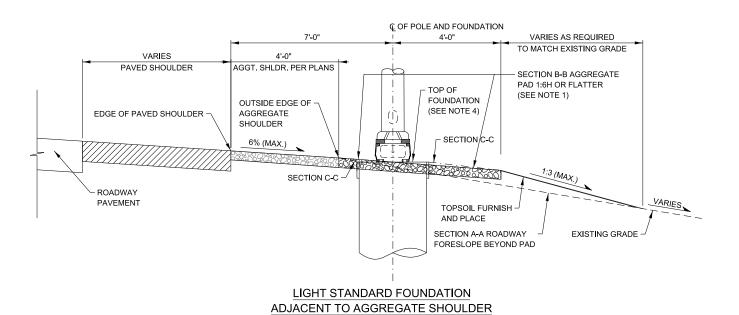
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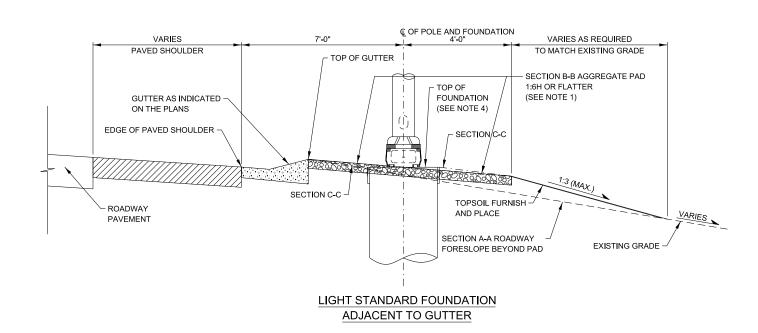
1. SEE SHEET 1 OF THIS SERIES FOR NOTES.

 PLUG TOP OF COUPLER WITH PLASTIC PLUG OR COVER WHILE PLACING CONCRETE. LIGHT STANDARD FOUNDATION

25-03 STANDARD: H1-13







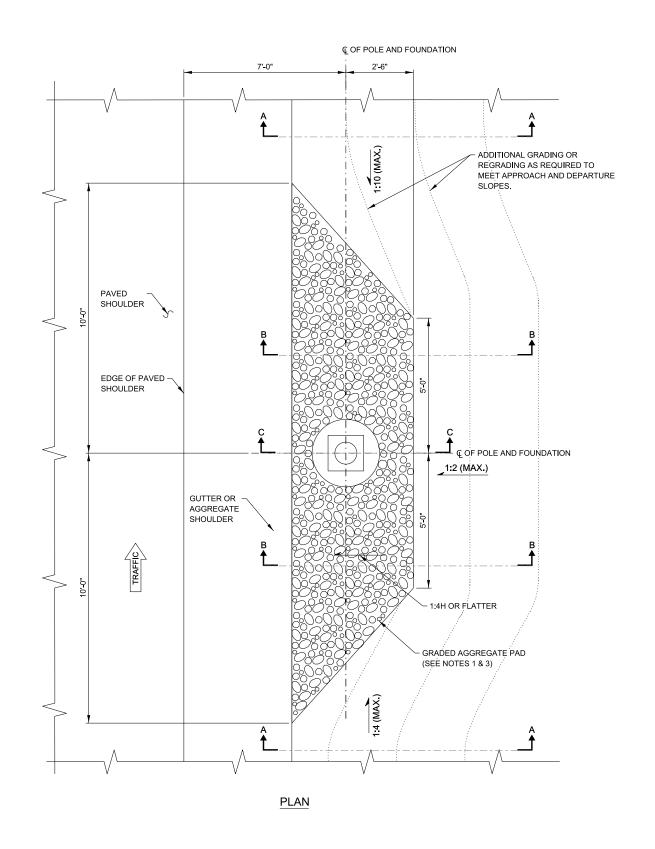
LIGHT STANDARD FOUNDATION DETAILS - GRADING W/ FORESLOPE (GROUND MOUNTED UNITS)

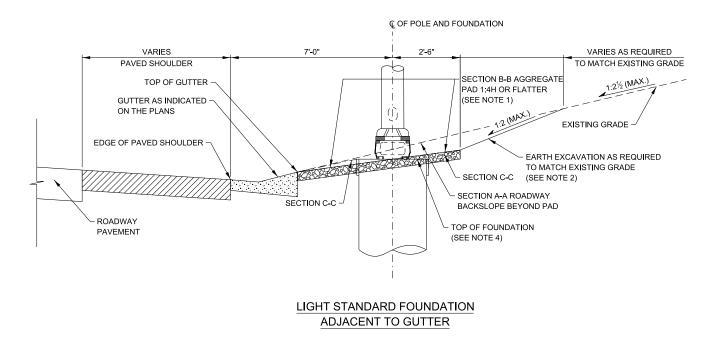
SEE SHEET 1 OF THIS SERIES FOR NOTES.

LIGHT STANDARD FOUNDATION

SHEET: 7 OF 10 H1-13

Illinois Tollway





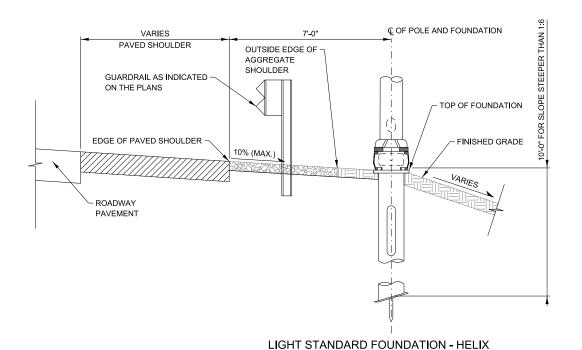
LIGHT STANDARD FOUNDATION DETAILS - GRADING W/ BACKSLOPE (GROUND MOUNTED UNITS)

1. SEE SHEET 1 OF THIS SERIES FOR NOTES.

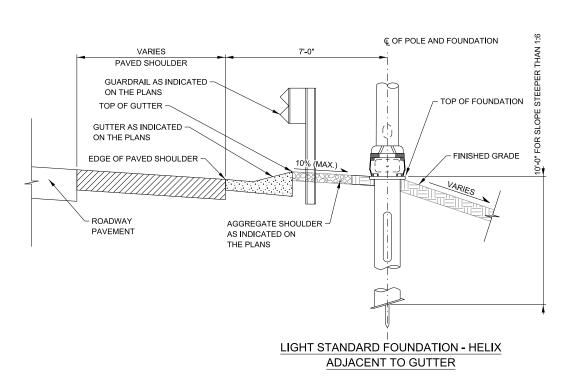


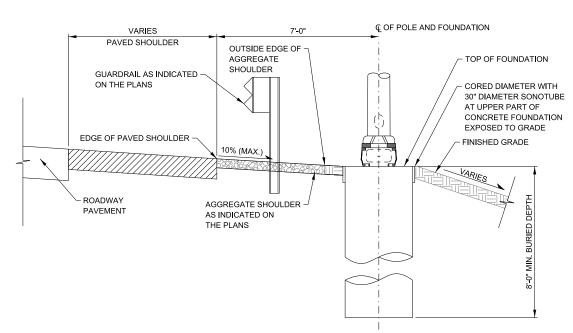
LIGHT STANDARD FOUNDATION

SHEET: 8 OF 10 H1-13

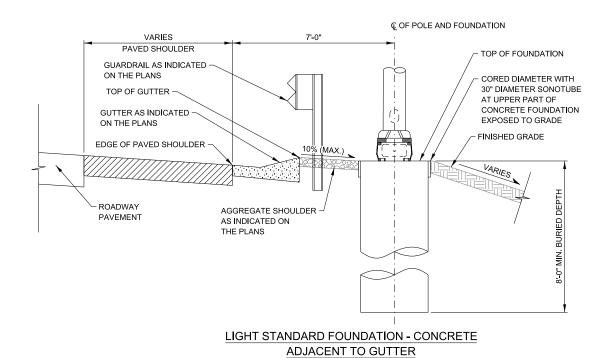


ADJACENT TO AGGREGATE SHOULDER





LIGHT STANDARD FOUNDATION - CONCRETE ADJACENT TO AGGREGATE SHOULDER

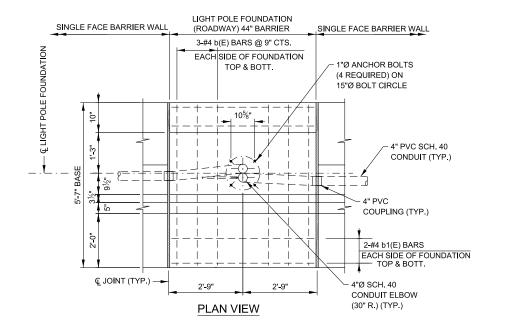


LIGHT STANDARD FOUNDATION DETAILS - ADJACENT TO GUARDRAIL (GROUND MOUNTED UNITS)

1. SEE SHEET 1 OF THIS SERIES FOR NOTES.

Illinois Tollway LIGHT STANDARD FOUNDATION

H1-13 9 OF 10

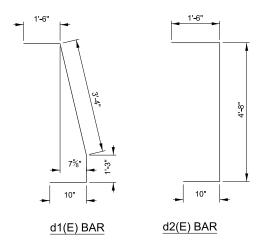


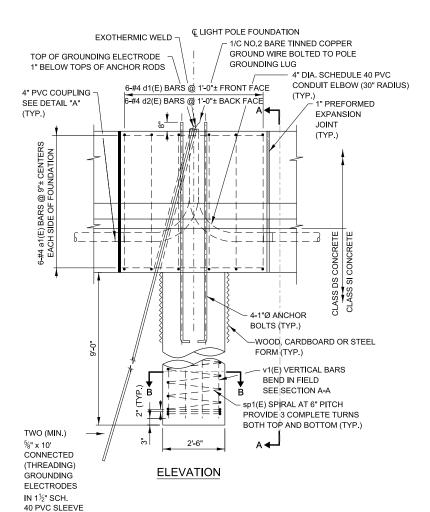
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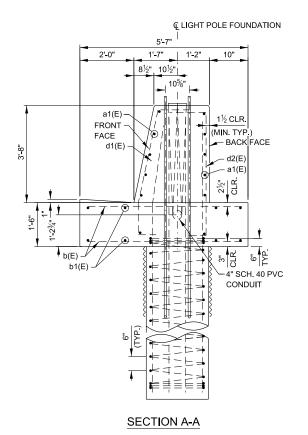
- ALL BARS SHALL BE EPOXY COATED.
- CONCRETE, REINFORCEMENT BARS, ANCHOR BOLTS, AND ALL OTHER COMPONENTS OF THE LIGHT POLE FOUNDATION ARE INCLUDED IN THE COST OF LIGHT POLE FOUNDATION (ROADWAY) 44" BARRIER.

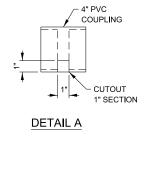
REINFORCING BAR SCHEDULE							
BAR	NO.	SIZE	LENGTH	WT. LBS.	SHAPE		
a1(E)	12	#4	5'-0"	40			
b(E)	12	#4	5'-1"	41			
b1(E)	8	#4	5'-2"	28			
d1(E)	6	#4	6'-11"	28	لسا		
d2(E)	6	#4	7'-0"	27			
sp1(E)	*	#4	*	97	≶		
v1(E)	8	#8	12'-6"	267			

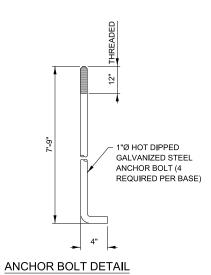
* SEE SECT. A-A

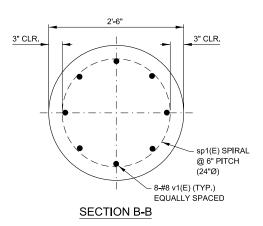












LIGHT STANDARD FOUNDATION DETAILS - SINGLE FACE BARRIER

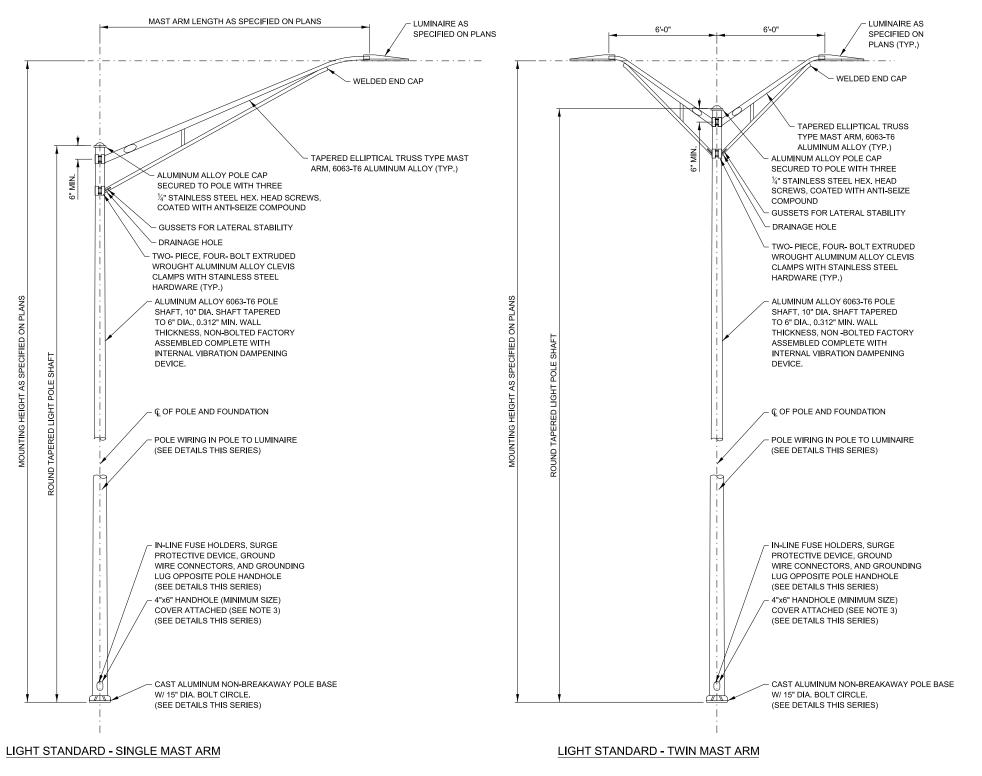
APPROVED BY: DATE:

Machief Engineering Officer

03/01/2025

LIGHT STANDARD FOUNDATION

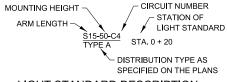
VERSION:
2025-03
H1-13
10 OF 10



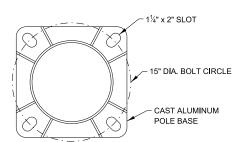
LIGHT STANDARD DETAILS

NOTES:

- ALL LIGHT STANDARDS, BOTH NEW AND EXISTING, ARE SHOWN ON PLANS WITH THE SAMPLE DESCRIPTIONS SHOWN ON THIS SHEET.
- FOR FOUNDATION DETAILS SEE STANDARD H1. FOR STRUCTURAL PARAPET FOUNDATION DETAILS, SEE STRUCTURAL PLANS.
- HANDHOLE COVERS SHALL BE FASTENED USING TWO STAINLESS STEEL SCREWS WITH CAPTIVE STAINLESS STEEL NUTS OR INSERTS, PER ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATION SECTION 1069.
- PROVIDE A 24" LONG POLYETHYLENE TUBE TO PROTECT CABLES WHERE THEY PASS THROUGH THE GROMMETTED OPENING AT THE POLE/MAST ARM JUNCTION.
- . ALL GROUND MOUNTED LIGHT POLES SHALL BE PROVIDED WITH AN ACCEPTED FHWA BREAKAWAY BASE OR DEVICE PER THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS SECTION 1070.
- 6. EACH BRIDGE MOUNTED LIGHT STANDARD SHALL BE PROVIDED WITH ISOLATION VIBRATION PADS, NUTS, WASHERS, LEVELING PLATE AND WIRE MESH FOR INSTALLATION ON THE FOUNDATION AS SHOWN ON THE PLANS.
- 7. LIGHT STANDARD WIRING DETAIL FOR INSTALLATION WITH CONCRETE FOUNDATION SHOWN. DETAIL FOR INSTALLATION WITH HELIX FOUNDATION IS SIMILAR
- LIGHT STANDARD WIRING DETAILS SHOWN FOR TWIN MAST ARM
 (2 LUMINAIRES PER POLE) INSTALLATIONS. SINGLE MAST ARM
 (1 LUMINAIRE PER POLE) INSTALLATIONS SHALL OMIT TWO (2) IN-LINE FUSE
 HOLDERS AND ASSOCIATED WIRING.
- CONDUCTORS EXTENDED INTO LIGHT POLE BASE SHALL BE OF SUFFICIENT LENGTH TO WITHDRAW SPLICES AND/OR INSULATED JOINTS A MINIMUM 18" OUT OF THE POLE HANDHOLE.
- 10. ALL CONDUCTORS ORIGINATING IN POLE SHALL BE A 1/C NO. 10 AWG UNLESS OTHERWISE NOTED.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 12. WASHERS BETWEEN HEX NUTS AND POLE BASES SHALL BE 2.5" OUTER DIAMETER. WASHERS ON PARAPET OR MEDIAN MOUNTED LIGHT POLES SHALL BE MINIMUM ¼" THICK. BENT OR DEFORMED WASHERS OR DAMAGED POLE BASES WILL NOT BE ACCEPTED. MULTIPLE STACKED WASHERS SHALL NOT BE SUBSTITUTED FOR APPROPRIATELY SIZED WASHERS.
- 13. ANCHOR BOLTS SHALL EXTEND OVER THE TOP OF HEX NUTS AND SHALL HAVE SUFFICIENT THREAD EXPOSED FOR LOCK NUT TABS TO MAKE CONTACT.



LIGHT STANDARD DESCRIPTION

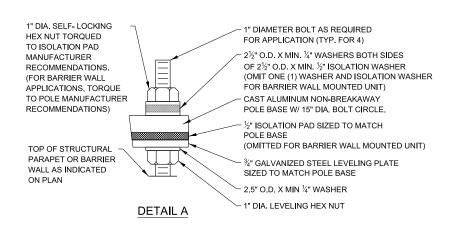


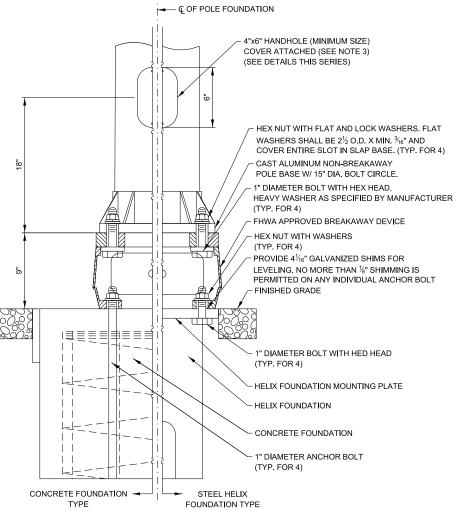
POLE BASE

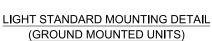


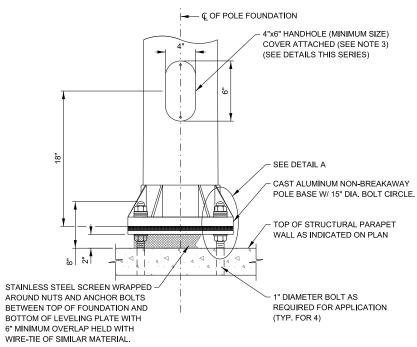
	REVISIONS				
DATE	DESCRIPTION				
03-01-2024	REMOVED REFERENCES TO HPS.	LIGHT STANDARD DETAILS			
	REVISIONS TO NOTES. REVISED				
	CALL-OUTS FOR LIGHT STANDARD				
	MOUNTING DETAIL GROUND MOUNTED				
	UNITS. REMOVED SURGE PROTECTORS	VERSION:	STANDARD:	SHEET:	
	AND ADDED A DEDICATED NEUTRAL.	2024-03	H2-10	1 OF 3	

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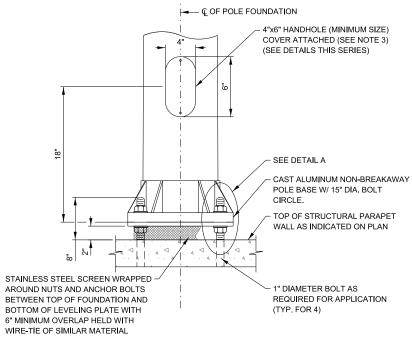






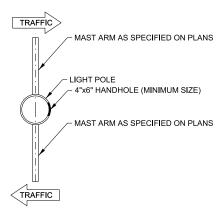


LIGHT STANDARD MOUNTING DETAIL (BRIDGE MOUNTED UNITS)

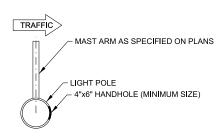


LIGHT STANDARD MOUNTING DETAIL (BARRIER WALL MOUNTED UNITS)

LIGHT STANDARD MOUNTING DETAILS



MEDIAN BARRIER WALL MOUNTED UNITS



SHOULDER GROUND AND STRUCTURAL PARAPET WALL MOUNTED UNITS

LIGHT STANDARD HANDHOLE ORIENTATION DETAIL

Illinois Tollway

LIGHT STANDARD DETAILS

NOTE:

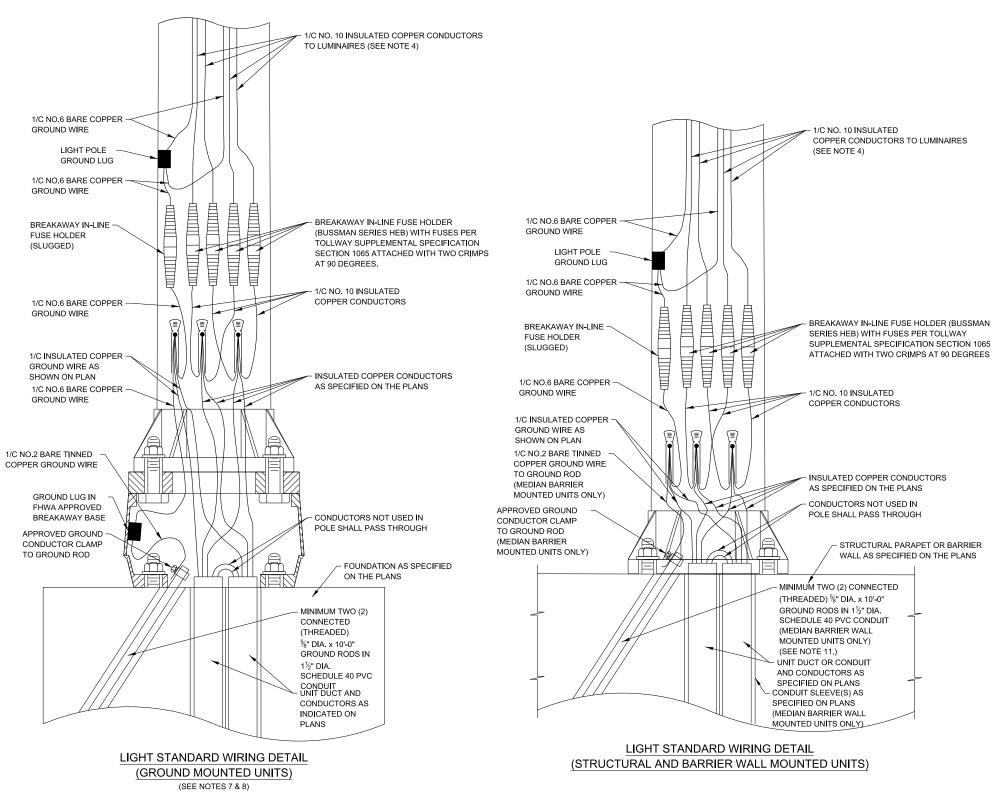
SEE SHEET 1 OF THIS SERIES FOR NOTES.

OTES. *VERSION:* **2024-03**

TANDARD: SHEET: H2-10 2 OF 3

standard: H2-10





'A' OR 'B' TYPE FUSE INSULATING
BREAKAWAY HOLDER BOOT

RECEPTACLE

IN-LINE FUSE HOLDER WITH BREAKAWAY FEATURE DETAIL

LIGHT STANDARD WIRING DETAILS

Illinois Tollway

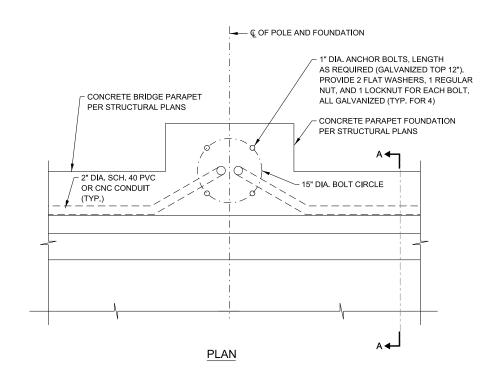
NOTE: SEE SHEET 1 OF THIS SERIES FOR NOTES. LIGHT STANDARD DETAILS

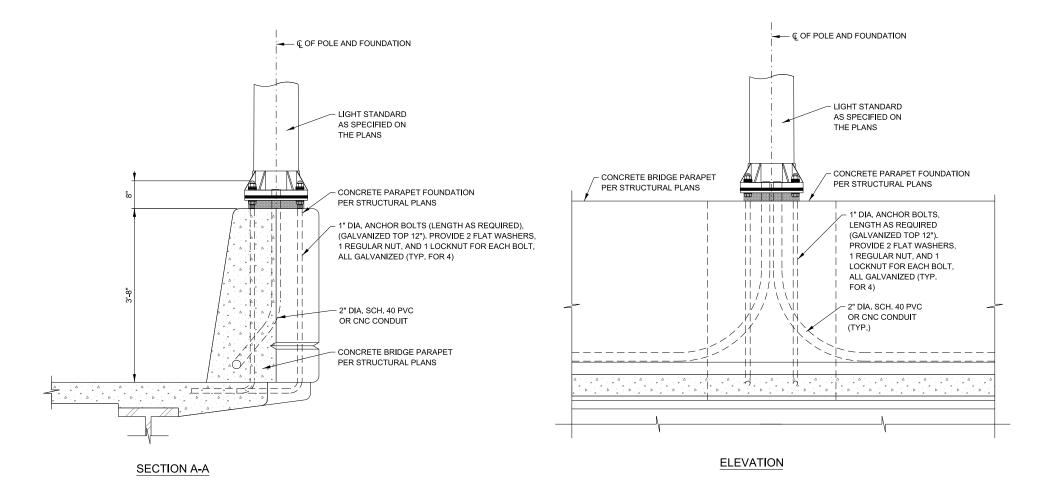
version: standard: 2024-03 H2-10

1 OF THIS

SHEET: 3 OF 3

Maran Nashif .





NOTES:

- FOR STRUCTURAL PARAPET FOUNDATION DETAILS, SEE STRUCTURAL PLANS
- THE END 4'-0" SECTION OF WINGWALL/PARAPET SHALL BE KEPT FREE FROM ANY ATTACHMENTS TO AVOID CONFLICT FROM TRAFFIC BARRIFR TERMINAL
- 3. ALL CONDUIT, JUNCTION BOXES AND APPURTENANCES MOUNTED TO STRUCTURE SHALL BE OFFSET FROM THE FACE OF THE STRUCTURE A MINIMUM OF ONE (1) INCH BY MEANS OF A STAINLESS STEEL C-CHANNEL. C-CHANNEL SHALL BE SECURED TO BRIDGE PARAPET WITH № DIA. EXPANSION ANCHORS (MIN. 2" LONG). EXPANSION ANCHORS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION AND SHALL BE MADE BY PARABOLT, KWIK-BOLT OR WEJ-IT. CONDUIT SHALL BE SECURED WITH APPROVED CLAMPS A MINIMUM OF 5 FEET FROM CENTER AND A MINIMUM OF 2 FEET FROM ANY CHANGE IN DIRECTION OR JUNCTION BOX.
- THE BARREL IN THE EXPANSION JOINT FITTING SHALL BE FULLY EMBEDDED IN THE CONCRETE ON ONE SIDE OF THE EXPANSION JOINT. ONE HALF THE LENGTH OF THE DEFLECTION FITTING SHALL BE EMBEDDED IN THE CONCRETE ON THE OTHER SIDE OF THE EXPANSION JOINT.
- 5. EXPANSION/DEFLECTION JOINTS SHALL BE PROVIDED AT ALL BRIDGE EXPANSION JOINTS.
- ALL CLAMPS AND HARDWARE FOR CONDUIT MOUNTING SHALL BE OF LIKE MATERIAL AS THE CONDUIT.
- 7. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.

Illinois Tollway

	REVISIONS	
DATE	DESCRIPTION	
03-01-2024	REMOVED THE DIMENSION OF THE	BRID
	ANCHOR BOLT FROM THE SECTION A-A	DKIL
	VIEW, ADDED THE TRANSITION SLAB	
	DETAIL. REVISED CALL-OUTS FOR SECTION	
	A-A VIEW. REVISED CALL-OUTS TO THE	VERSION:
	ELEVATION VIEW.	2024-03

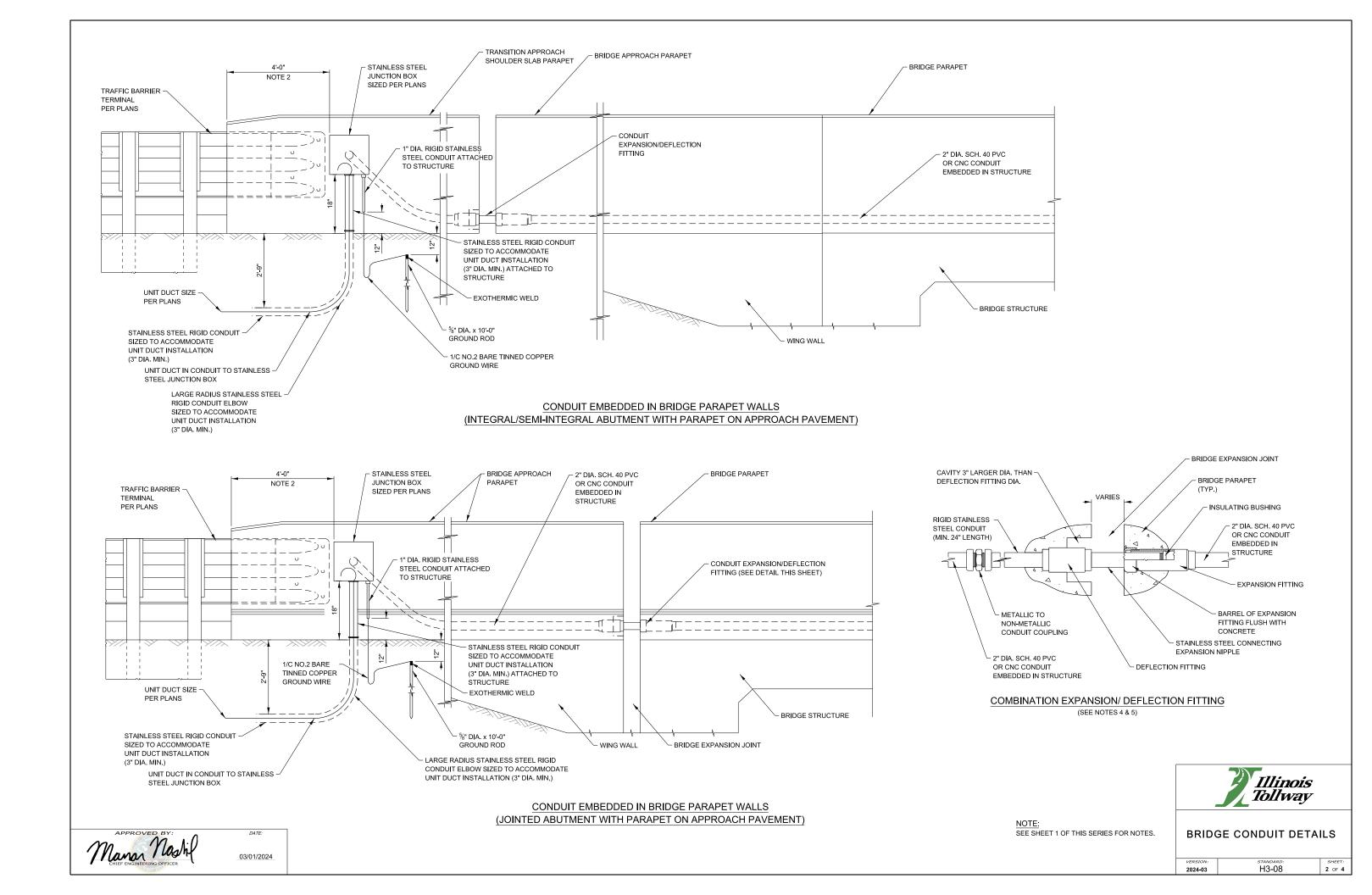
BRIDGE CONDUIT DETAILS

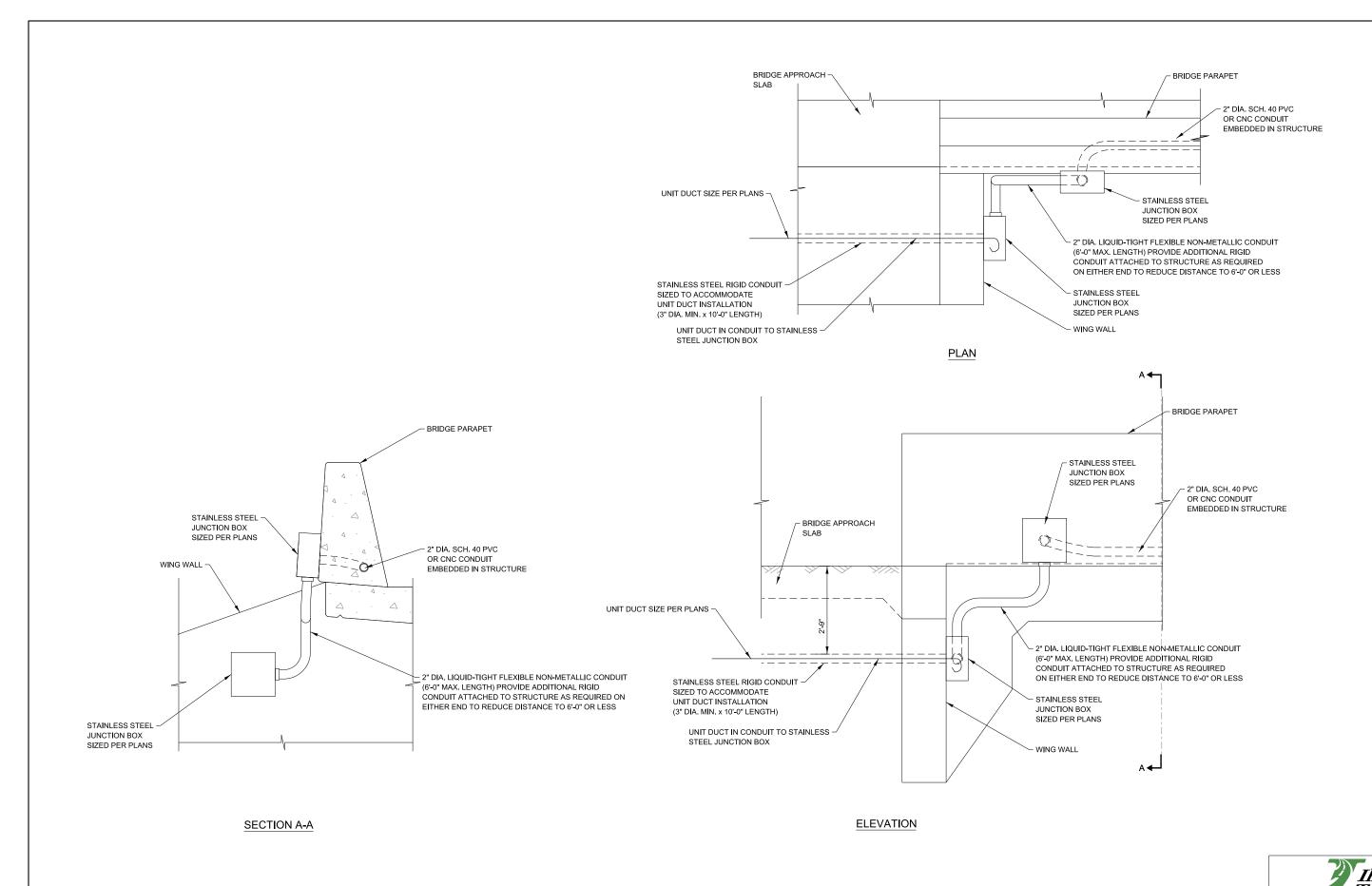
 VERSION:
 STANDARD:
 SHEET:

 2024-03
 H3-08
 1 of 4

03/01/2024

CONDUIT EMBEDDED IN BRIDGE PARAPET



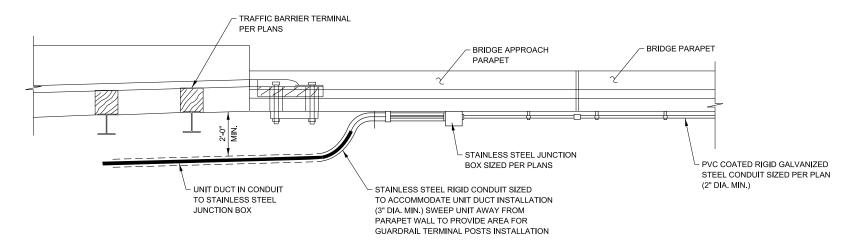


CONDUIT EMBEDDED IN BRIDGE PARAPET WALLS

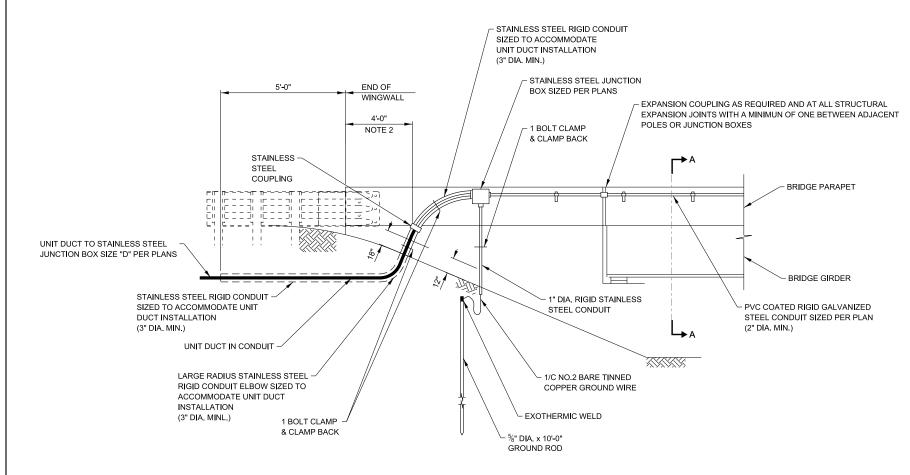
NOTE: SEE SHEET 1 OF THIS SERIES FOR NOTES.

Illinois Tollway **BRIDGE CONDUIT DETAILS** H3-08 3 OF 4

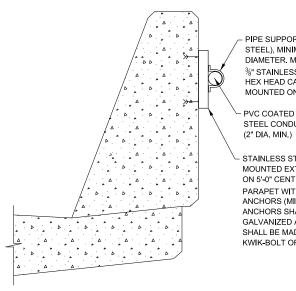
(INTEGRAL/SEMI-INTEGRAL ABUTMENT WITH PARAPET ENDING ON BRIDGE DECK)



PLAN VIEW



ELEVATION OF TYPICAL WINGWALL CONDUIT TRANSITION



- PIPE SUPPORT (PVC COATED GALVANIZED STEEL), MINIMUM SIZE EQUAL TO PIPE DIAMETER. MOUNT TO CHANNEL WITH TWO %" STAINLESS STEEL CLAMPING NUTS, HEX HEAD CAP SCREW & LOCK WASHER, MOUNTED ON 5 FEET CENTERS

- PVC COATED RIGID GALVANIZED STEEL CONDUIT SIZED PER PLAN (2" DIA, MIN.)

STAINLESS STEEL C-CHANNEL, 10" LONG MOUNTED EXTERNALLY ON BRIDGE PARAPET ON 5'-0" CENTERS. ATTACH TO BRIDGE PARAPET WITH ½" DIA. EXPANSION ANCHORS (MIN. 2" LONG). EXPANSION ANCHORS SHALL BE HOT DIPPED GALVANIZED AFTER FABRICATION AND SHALL BE MADE BY PARABOLT, KWIK-BOLT OR WEJ-IT

SECTION A-A

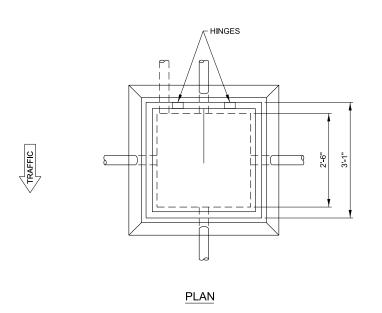


NOTE: SEE SHEET 1 OF THIS SERIES FOR NOTES. BRIDGE CONDUIT DETAILS

 VERSION:
 STANDARD:
 SHEET:

 2024-03
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 4 of 4

Marsa Nashil 03/01/2024





EAST JORDAN

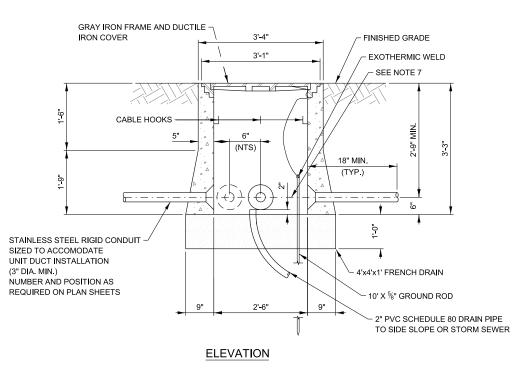
EJ 8216

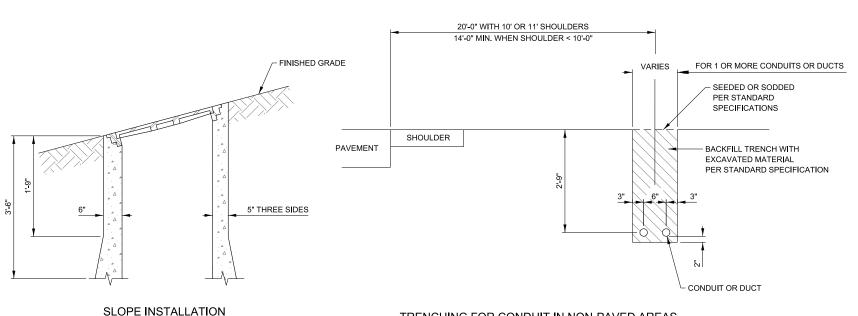


NEENAH R-6662-PS

NOTES:

- HEAVY-DUTY HANDHOLE LOCATED IN UNPAVED AREAS AND NOT SHIELDED BY GUARDRAIL SHALL BE CONSTRUCTED WITH THE TOP FLUSH WITH THE ADJACENT SLOPE.
- 2. HEAVY-DUTY HANDHOLE SHALL BE CONSTRUCTED IN NON-PAVED AREAS. THE FRAME AND HINGED COVER SHALL BE EITHER NEENAH FOUNDRY R-6662-PS WITH TYPE G LIFTING HANDLE OR EAST JORDAN IRON WORKS EJ 8216 WITH MPIC OR APPROVED EQUAL. THE HINGED COVER SHALL BE PROVIDED WITH A LIFT ASSIST MECHANISM. THERE SHALL BE TWO SETS OF HINGES AND THE DESIGN SHALL ALLOW FOR THE COVER TO OPEN > 90 DEGREES. THE COVER SHALL BE PROVIDED WITH A HOLD OPEN SAFETY ARM THAT CATCHES TO PREVENT ACCIDENTAL CLOSURE. THE COVER SHALL ALSO BE ABLE TO BE MADE FULLY REMOVABLE. THE FRAME COVER SHALL BE INSTALLED WITH THE HINGES TO THE SIDE FACING APPROACHING TRAFFIC.
- AGGREGATE FOR FRENCH DRAIN SHALL BE PER ARTICLE 1003.04 OF THE 3. STANDARD SPECIFICATIONS.
- 10 FEET OF EXTRA CABLE SHALL BE COILED IN EACH HANDHOLE.
- ALL METALLIC COMPONENTS OF THE HANDHOLE SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATIONS SECTION 814, THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- THE HANDHOLE COVER SHALL BE LETTERED "ELECTRIC". LETTERING SHALL BE 2" FLAT FACE GOTHIC AND BE FLUSH WITH THE SLIP RESISTANT SURFACE.
- CONDUCTOR SPLICES SHALL BE MADE ONLY WITHIN ACCESSIBLE ABOVE GRADE LOCATIONS, SUCH AS WITHIN POLE BASES, JUNCTION BOXES AND WITHIN ENCLOSURES. BELOW GRADE CONDUCTOR SPLICING SHALL ONLY BE ACCEPTABLE AT THE APPROVAL OF THE TOLLWAY. IF A BELOW GRADE SPLICE IS APPROVED FOR USE BY THE TOLLWAY, THE SPLICES SHALL BE WATERPROOF OF THE RESIN EPOXY ENCAPSULATED TYPE.





TRENCHING FOR CONDUIT IN NON-PAVED AREAS



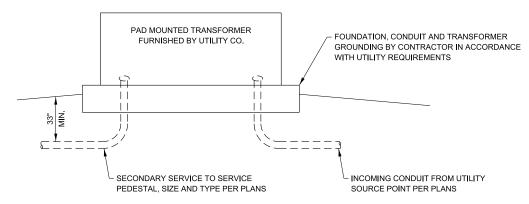
DESCRIPTION 03-01-2024 REVISED TO REFERENCE DETAILS FOR BURIED WIRING, ADDED NOTE 7 REMOVED SAND FROM CONDUIT TRENCH GROUND ROD SHOWN IN ELEV. VIEW. 2024-03

REMOVED GROUND ROD FROM DETAIL.

HEAVY-DUTY HANDHOLE AND BURIED WIRING DETAILS H4-06 1 OF 1

- CONNECTION CONDUCTOR SIZE AS REQUIRED PER PLANS FOR CONNECTION WEATHERHEAD BY UTILITY CO. 240/480V, 1 PH, 3W PER UTILITY CO. REQUIREMENT NON-METALLIC CONDUIT OUTDOOR ADAPTER COUPLING FROM METALLIC TO NON-METALLIC CONDUIT 3" DIA. STAINLESS STEEL CONDUIT, SIZE OF CONDUCTORS PER PLANS MATERIAL FURNISHED AND INSTALLED BY CONTRACTOR. PER UTILITY COMPANY CONDUIT COUPLING SPECIFICATIONS 3" DIA. SCHEDULE 40 PVC CONDUIT TO SERVICE PEDESTAL. EXOTHERMIC WELD -SIZE OF CONDUCTORS PER PLANS GROUND ROD, CONDUCTOR -CONDUIT COUPLING FROM & CLAMPS FOR GROUNDING METALLIC TO NON-METALLIC CONDUIT ON POLE TO BE IN ACCORDANCE WITH UTILITY REQUIREMENTS 36" RADIUS RIGID STAINLESS STEEL

UTILITY SERVICE POLE SUBJECT TO UTILITY COMPANY APPROVAL

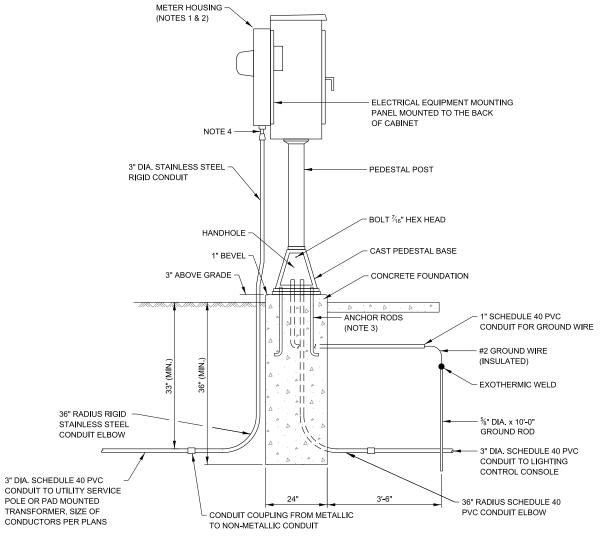


UTILITY PAD MOUNTED TRANSFORMER

SUBJECT TO UTILITY COMPANY APPROVAL

NOTES:

- METER HOUSING SHALL BE MOUNTED TO BACK WALL OF CONTROL CABINET. PROVIDE A GATE IN R.O.W. FENCE TO ALLOW UTILITY ACCESS TO READ THE METER.
- 2. CABLES FROM METER HOUSING SHALL PASS THROUGH BACK WALL OF CONTROL CABINET.
- CONTRACTOR MUST COORDINATE WITH PEDESTAL BASE SUPPLIER AND FURNISH THE NECESSARY ANCHOR RODS.
- 4. PROVIDE A 2½" CONDUIT HUB, 2½" NIPPLE AND 2½" TO 3" CONDUIT REDUCER FITTING.
- 5. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.



SERVICE PEDESTAL WITH METER DETAIL

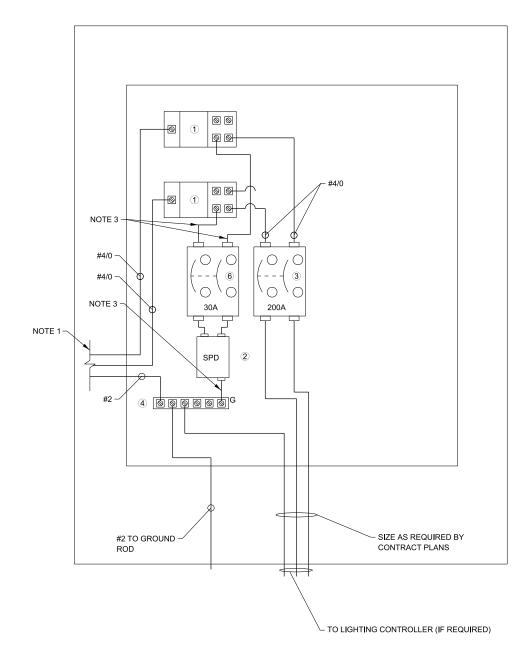
			Toninay		
	REVISIONS				
DATE	DESCRIPTION				
03-01-2021 ADDED COMBINED LIGHTING/ITS		SERVICE POLE AND			
	PEDESTAL.		PEDESTAL DETAILS		
03-01-2018	TYPOGRAPHICAL CORRECTIONS.	· -			
03-31-2017	ADDED EQUIPMENT LAYOUTS.				
03-31-2016	REVISED CONDUIT DEPTH.	VERSION:	STANDARD:	SHEET:	
		2021-03	H5-06	1 OF 3	

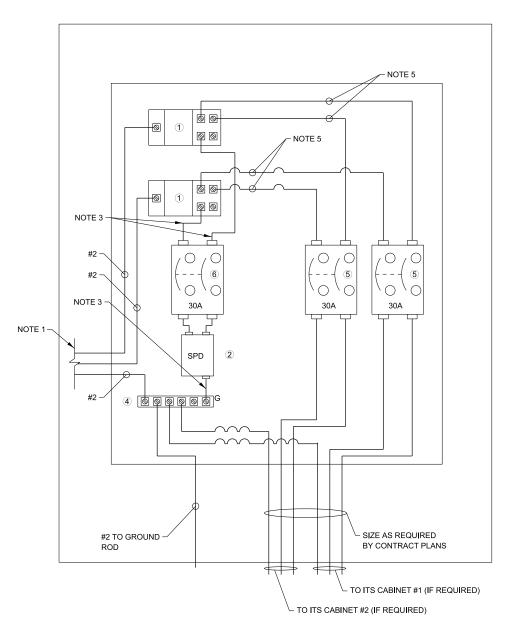
APPROVED BY:

DATE:

O3/01/2021

CHIEF ENGINEERING OFFICER





SERVICE PEDESTAL INTERIOR ELECTRIC **EQUIPMENT LAYOUT & WIRING DIAGRAM** ROADWAY LIGHTING

SERVICE PEDESTAL INTERIOR ELECTRIC **EQUIPMENT LAYOUT & WIRING DIAGRAM** ROADWAY ITS

ITEM DESCRIPTION

- POWER DISTRIBUTION/TERMINAL BLOCK, WITH INGRESS PROTECTION RATING IP20.
- SURGE PROTECTION DEVICE
- CIRCUIT BREAKER, 200 AMPERE, 2-POLE, 600 VOLT RATED
- GROUNDING AND/OR NEUTRAL BUS
- CIRCUIT BREAKER, 30 AMPERE (OR AS REQUIRED BY CONTRACT PLANS), 2-POLE, 600 VOLT RATED
- CIRCUIT BREAKER, 30 AMPERE, 2-POLE, 600 VOLT RATED

NOTES:

- 1. ELECTRIC SERVICE CONDUCTORS FROM METER HOUSING.
- ELECTRIC SERVICE CONDUCTORS TO LIGHTING CONTROL CONSOLE. SIZE AS INDICATED ON THE PLANS.
- SURGE PROTECTION DEVICE CONDUCTORS SIZE SHALL BE ACCORDING TO MANUFACTURER'S RECOMMENDATION.
- ELECTRIC CONDUCTORS SHOWN WITH MINIMUM SIZES. LARGER SIZES SHALL BE USED AS REQUIRED OR AS SHOWN ON THE PLANS.
- CABLES SHALL BE MINIMUM #4 AWG OR AS REQUIRED FOR CIRCUIT BREAKER.

Illinois Tollway

SERVICE POLE AND PEDESTAL DETAILS

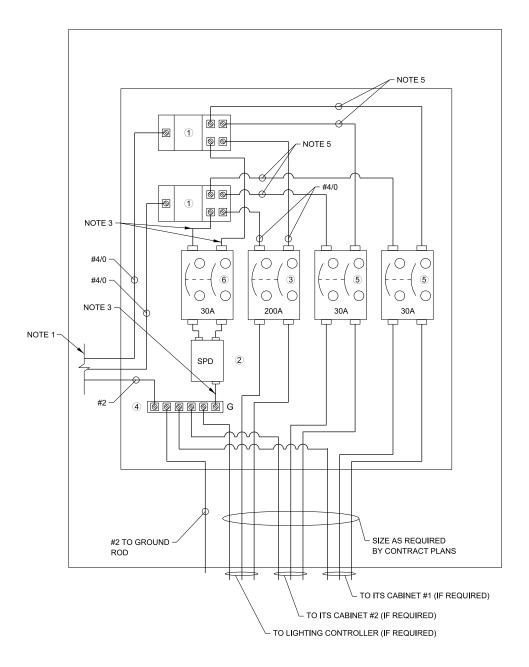
2021-03

H5-06

2 OF 3

03/01/2021

APPROVED BY: Paul Koracs



SERVICE PEDESTAL INTERIOR ELECTRIC
EQUIPMENT LAYOUT & WIRING DIAGRAM
COMBINED ROADWAY LIGHTING / ITS

ITEM DESCRIPTION

- POWER DISTRIBUTION/TERMINAL BLOCK, WITH INGRESS PROTECTION RATING IP20.
- 2 SURGE PROTECTION DEVICE
- ③ CIRCUIT BREAKER, 200 AMPERE, 2-POLE, 600 VOLT RATED
- GROUNDING AND/OR NEUTRAL BUS
- (5) CIRCUIT BREAKER, 30 AMPERE (OR AS REQUIRED BY CONTRACT PLANS), 2-POLE, 600 VOLT RATED
- 6 CIRCUIT BREAKER, 30 AMPERE, 2-POLE, 600 VOLT RATED

NOTES:

- 1. ELECTRIC SERVICE CONDUCTORS FROM METER HOUSING.
- 2. ELECTRIC SERVICE CONDUCTORS TO LIGHTING CONTROL CONSOLE. SIZE AS INDICATED ON THE PLANS.
- 3. SURGE PROTECTION DEVICE CONDUCTORS SIZE SHALL BE ACCORDING TO MANUFACTURER'S RECOMMENDATION.
- ELECTRIC CONDUCTORS SHOWN WITH MINIMUM SIZES. LARGER SIZES SHALL BE USED AS REQUIRED OR AS SHOWN ON THE PLANS.
- CABLES SHALL BE MINIMUM #4 AWG OR AS REQUIRED FOR CIRCUIT BREAKER.



SERVICE POLE AND PEDESTAL DETAILS

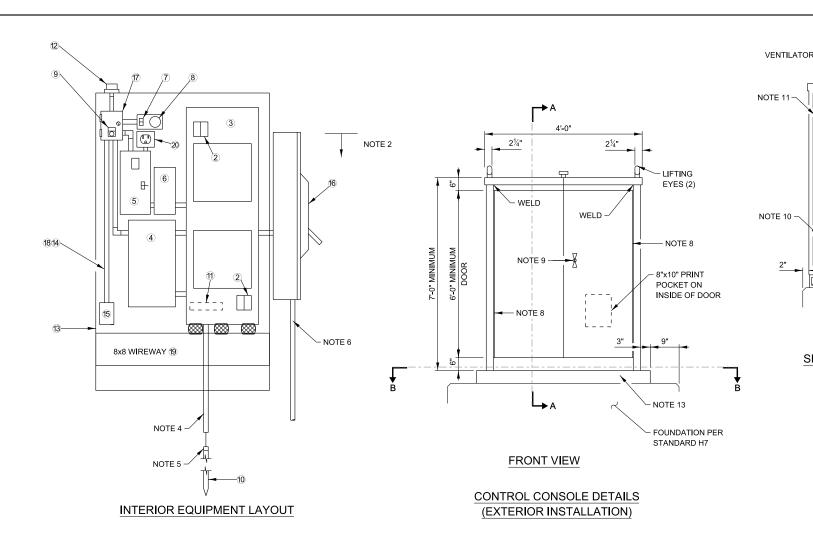
VERSION: 2021-03 STANDARD: H5-06

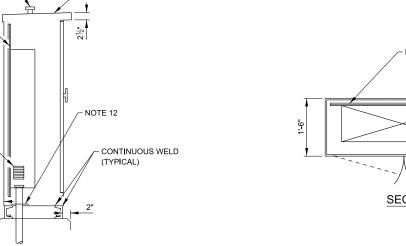
3 OF 3

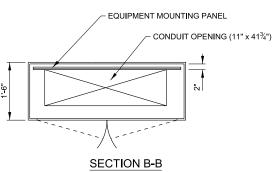
APPROVED BY:

DATE:

O3/01/2021







SECTION A-A

ITEM DESCRIPTION:

NOTE 14

- NOT USED.
- 2 SECONDARY SURGE ARRESTERS, 2 POLE, 650 VOLT.
- MAIN PANELBOARD IN A NEMA 1 ENCLOSURE, 480/240 VOLT, 1 PHASE, 3 WIRE, 2 SECTION, 200 AMP, 2 POLE MAIN CIRCUIT BREAKER 65,000 AMPERES SYMMETRICAL INTERRUPTING CAPACITY WITH CIRCUIT BREAKERS PER SCHEDULE ON PLANS. DOOR HINGES ON RIGHT SIDE
- (4) LIGHTING CONTRACTOR, ELECTRICALLY HELD, 480 VOLT, 200 AMP, 2 POLE, 120 VOLT CONTROL, WITH 250 VOLT, 15 AMP CONTROL LINE FUSE, IN A NEMA 1 ENCLOSURE.
- SECONDARY BREAKER, 15 AMPERE TRIP, 120 VOLT, SINGLE POLE, 65,000 AMPERES SYMMETRICAL INTERRUPTING CAPACITY IN A NEMA 1 SURFACE MOUNTED ENCLOSURE.
- (6) STEP DOWN TRANSFORMER, 1500 VA, 480 VOLT PRIMARY, 120 VOLT SECONDARY, SINGLE PHASE, 60 HERTZ, DRY TYPE, NEMA 3R ENCLOSURE.
- ③ SINGLE POLE, 15 AMPERE SWITCH, IN A NEMA 1 ENCLOSURE (WITH ITEM 8), RATED AT 120-277 VAC.
- 8 LAMP HOLDER 660W, 600V, MOUNTED ON A NEMA 1 ENCLOSURE (WITH ITEM 7), W/LED LAMP
- 9 HAND-OFF-AUTO SELECTOR SWITCH WITH LEGEND PLATE. MOUNTED IN THE COVER OF ITEM 17.
- $\frac{10}{10}$ $\frac{5}{8}$ " DIA. x 10'-0" LONG GROUND ROD DRIVEN EXTERNAL TO THE FOUNDATION WITHIN GROUND WELL.
- (f) GROUND BUS MOUNTED IN PANELBOARD ENCLOSURE.
- 2 PHOTO ELECTRIC CONTROL SWITCH, WITH RECEPTACLE.
- 13 NEMA TYPE 3R STAINLESS STEEL ENCLOSURE WITH DRIP SHIELD AND STAINLESS STEEL HARDWARE. ENCLOSURE SHALL CONFORM TO J.I.C. STANDARDS WITH CELLULAR NEOPRENE GASKETED DOORS, ALL SEAMS CONTINUOUSLY WELDED, 10 GAUGE STAINLESS STEEL BODY, REMOVABLE STEEL (PAINTED WHITE) PANEL INSIDE THE BACK AND A FACTORY INSTALLED DRIP SHIELD. THE ENCLOSURE SHALL HAVE CONTINUOUS HINGED DOORS MEETING IN THE CENTER, OVERLAPPED AND GASKETED, WITH NO CENTER POST. AN OIL TIGHT KEY LOCKING HANDLE WITH 3 POINT LATCH SHALL BE PROVIDED (FURNISH 6 KEYS). EACH END OF THE ENCLOSURE SHALL HAVE A SCREENED, GASKETED VENTILATING LOUVER AND THE TOP OF THE ENCLOSURE SHALL HAVE A VENTILATOR. INTERNAL CONDUIT SHALL HAVE LOCKNUTS, INSULATING BUSHING AND CONDULET FITTINGS AS REQUIRED. INTERNAL WIRING SHALL BE XLP INSULATED NEC TYPE RHH/RHW-2. PROVIDE A WIRING DIAGRAM IN A PRINT POCKET ON THE INSIDE OF THE CABINET DOOR.
- [4] INTERNAL CONTROL WIRING SHALL BE #12 AWG, STRANDED, XLP INSULATED NEC TYPE RHH/RHW-2 RATED 600 VOLT, WITH SUITABLE COLOR CODING TO BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION.
- (5) 200 WATT, 120 VOLT CABINET HEATER WITH INTEGRAL THERMOSTAT.
- 6 SERVICE SAFETY SWITCH, 200 AMP, 600 VOLT, NON-FUSED, NEMA 4X STAINLESS STEEL ENCLOSURE.
- $\ensuremath{\overline{\mathcal{I}}}$ NEMA TYPE 1, 8"x6"x4" JUNCTION BOX & COVER WITHOUT KNOCKOUTS. ITEM 9 IS MOUNTED IN THE COVER.
- $^{(8)}$ INTERNAL CONDUIT AND FITTINGS SHALL BE $^{3}\!\!4$ " MINIMUM.
- 19 8"x8" WIREWAY WITH 3-3" NIPPLES.

GCFI OUTLET

20

EXTERIOR CONTROL CONSOLE DETAILS

STANDARD: SHEET: 18-03 H6-06 1 OF 2

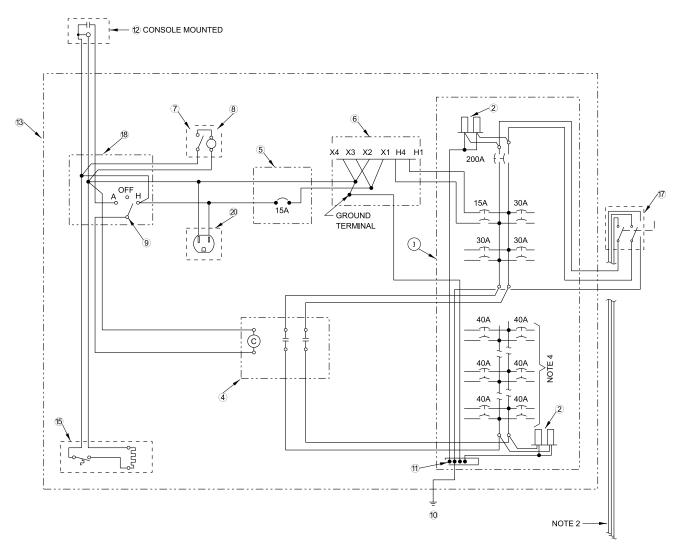
Illinois

Tollway

NOTES:

- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 2. 5'-0" MAXIMUM HEIGHT ABOVE GRADE.
- NOT USED.
- 4. ¾" PVC CONDUIT IN CONCRETE, SEE FOUNDATION DETAILS (STANDARD H7).
- 5. EXOTHERMIC WELD NO. 2 BARE TINNED COPPER GROUND CABLE TO GROUND ROD.
- 6. TO SERVICE PEDESTAL AS INDICATED ON PLANS.
- NOT USED.
- 8. CONTINUOUS STAINLESS STEEL PIANO HINGES.
- 9. 3-POINT LATCH VAULT TYPE HANDLE WITH MASTER KEYED CHICAGO CYLINDER LOCK CATALOG NO. 60
- 10. SCREENED LOUVERS ON SIDES OF CABINET.
- 11. 10 GAUGE GALVANIZED STEEL EQUIPMENT MOUNTING PANEL (PAINTED WHITE).
- 12. REMOVABLE #10 GAUGE 13"x43¾" STAINLESS STEEL PLATE. DRILL PLATE AS REQUIRED FOR CONDUIT ENTRY.
- 13. 4" x 2½" STAINLESS STEEL CHANNEL (2 REQUIRED-FRONT AND BACK). EXTEND CHANNEL 3" BEYOND ENCLOSURE (CONTINUOUSLY WELD CHANNEL TO ENCLOSURE).
- 14. TOP SLOPED $\frac{1}{2}$ " TO REAR FOR DRAINAGE.
- 5. FOR WIRING DIAGRAM SEE SHEET 2 OF THIS SERIES.
- 16. ALL EQUIPMENT WITHIN LIGHTING CONTROLLER SHALL BE SEPARATED A MINIMUM OF THREE (3) INCHES FROM EACH OTHER.
- MAIN PANELBOARD (ITEM 3) SHALL BE POSITIONED SUCH THAT BOTH DOORS (DOOR-IN-DOOR) OF THE PANELBOARD MAY BE FULLY OPENED WITHIN EXTERIOR ENCLOSURE (ITEM 13) WITHOUT REMOVAL

APPROVED BY: DATE: O3/01/2018 CHIEF ENGINEERING OFFICER



NOTES:

- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE
 WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 2. TO SERVICE PEDESTAL, 480/240V, 1 PHASE, 3 WIRE, GROUNDED. SEE STANDARD H5.
- 3. ITEM NUMBERS REFER TO EQUIPMENT LIST ON SHEET 1 OF THIS
- 4. PROVIDE CIRCUIT BREAKERS PER SCHEDULE ON THE CONTRACT PLANS (MINIMUM OF 12).
- 5. FOR INTERIOR EQUIPMENT LAYOUT SEE SHEET 1 OF THIS SERIES.

CONTROL CONSOLE WIRING DIAGRAM

CONTROL CONSOLE DETAILS (EXTERIOR INSTALLATION)



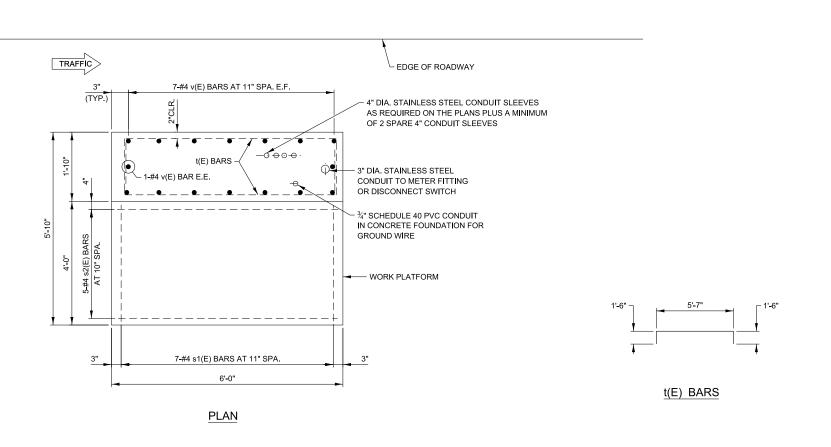
EXTERIOR CONTROL CONSOLE DETAILS

H6-06

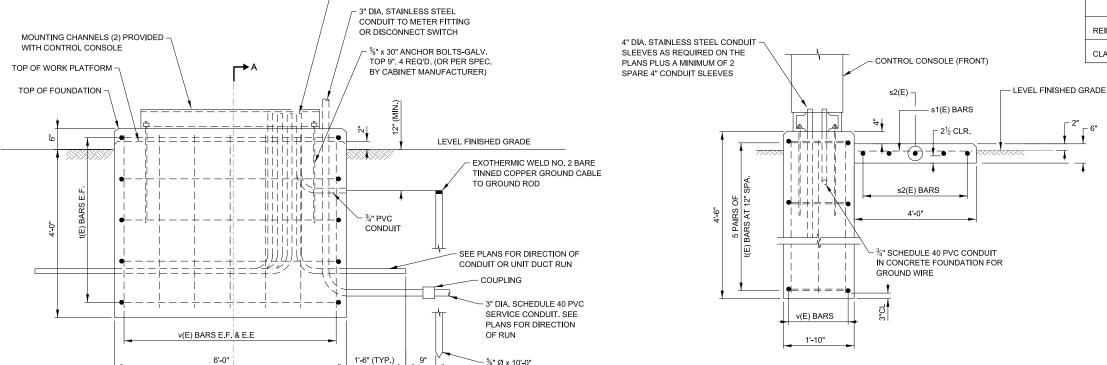
03/01/2018

APPROVED BY: Paul Koracs

SHEET: 2 OF 2



- 4" DIA. STAINLESS STEEL CONDUIT SLEEVES AS REQUIRED ON THE PLANS PLUS A MINIMUM OF 2 SPARE 4" CONDUIT SLEEVES



GROUND ROD

NOTES:

- EXPOSED CONCRETE EDGES SHALL HAVE ¾"x45° CHAMFERS EXCEPT WHERE SHOWN OTHERWISE. CHAMFERS ON VERTICAL EDGES SHALL BE CONTINUED A MINIMUM OF ONE FOOT BELOW FINISHED GROUND LEVEL.
- ALL REINFORCEMENT BARS SHALL BE EPOXY COATED (E) AND SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 (ASTM A615), GRADE 60 DEFORMED BARS.
- REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE "MANUAL
 OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES",
 ACI 315, LATEST EDITION.
- REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.
- COVER FROM THE FACE OF CONCRETE TO FACE OF REINFORCEMENT BARS SHALL BE 3" FOR ALL SURFACES UNLESS OTHERWISE SHOWN.
- 6. FOR CLARITY, CONTROL CONSOLE AND RAILINGS ARE NOT SHOWN IN PLAN VIEW.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- FOR TYPE B FOUNDATION REINFORCEMENT, WELDED WIRE MESH 6X6 DI6, Fy=60 KSI CAN BE USED.

REINFORCEMENT BARS SCHEDULE							
BARS	NO.	SIZE	LENGTH	WT. LB.	SHAPE		
v(E)	16	#4	4'-0"	43	-		
t(E)	10	#4	8'-7"	57			
s1(E)	7	#4	3'-8"	17			
s2(E)	5	#4	5'-8"	19			

BILL OF MATERIAL					
DESCRIPTION	UNIT	QUANTITY			
REINF. BARS, EPOXY COATED	POUND	136			
CLASS "SI" CONCRETE	CU. YD.	2.3			

SECTION A-A



H7-04

1 of 2

		_		
	REVISIONS			
DATE	DESCRIPTION FXTERIOR CON		TERIOR CONTROL	
03-01-2025	UPDATED FOUNDATION DESIGN.	CONSOLE FOUNDATION		N I
03-04-2019	REVISED CONDUITS TO MATCH H5.			ATION
03-11-2015	REVISED CONDUITS TO STAINLESS STEEL.		DETAILS	
02-07-2012	REVISED TYPE A AND TYPE B			
	CONTROL CONSOLE FOUNDATIONS.	VERSION:	STANDARD:	SHEE

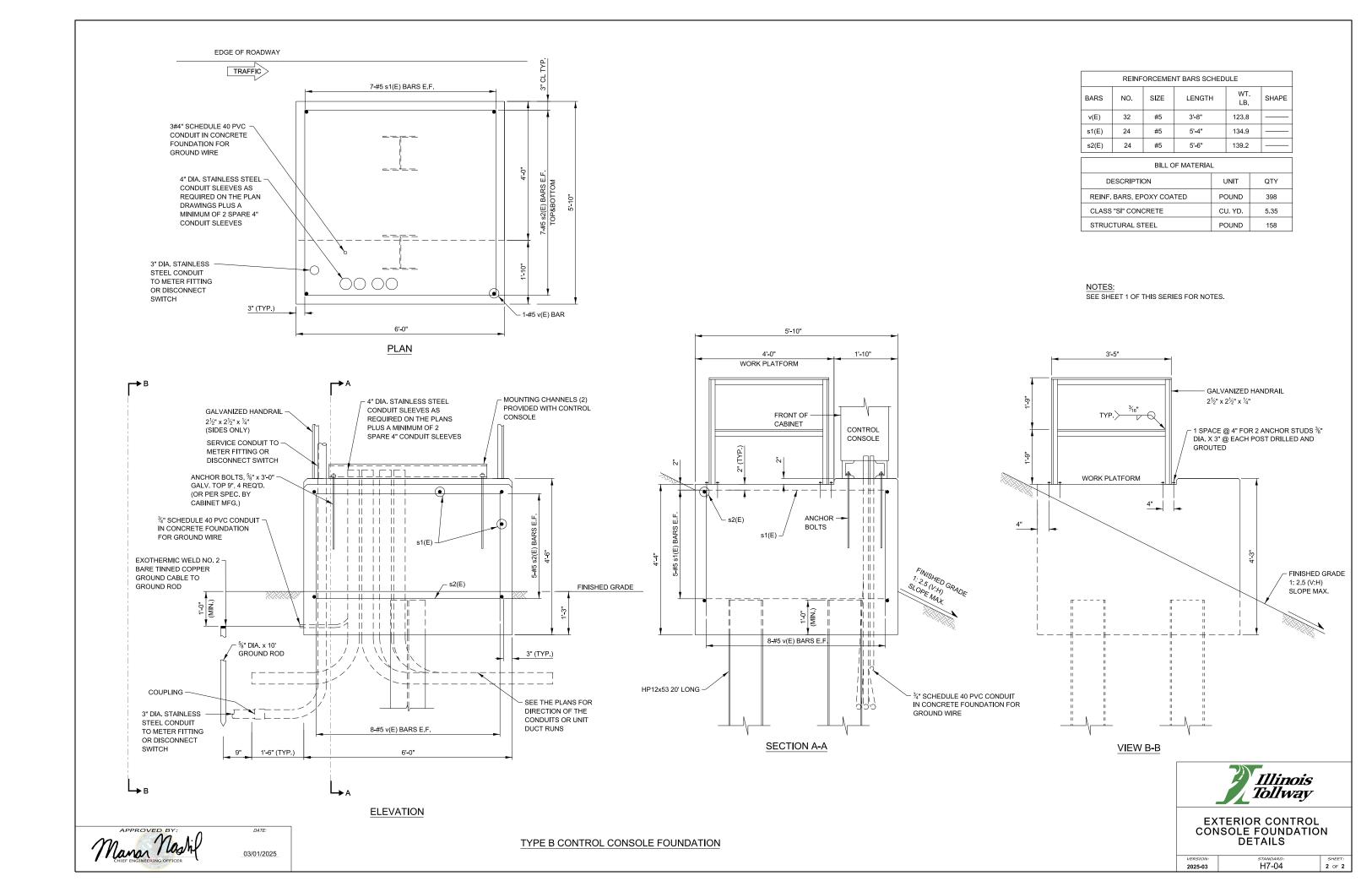
2025-03

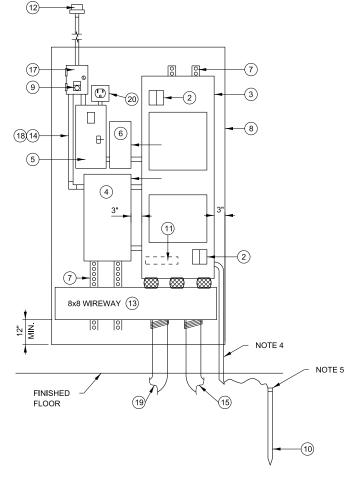
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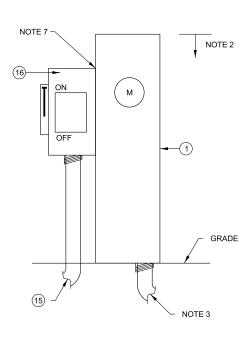
DATE:

O3/01/2025

ELEVATION







INTERIOR EQUIPMENT LAYOUT

SERVICE ENTRANCE DETAIL

NOTES:

- 1. PROVIDE POWER UTILITY CO. METER HOUSING AS INDICATED ON PLANS.
- 2. 5'-0" MAXIMUM HEIGHT ABOVE GRADE.
- STAINLESS STEEL CONDUIT TO UTILITY SERVICE AS INDICATED ON PLANS.
- 4 ¾" PVC CONDUIT
- EXOTHERMIC WELD NO. 2 BARE TINNED COPPER GROUND CABLE TO GROUND ROD 12"-24" BELOW GRADE.
- TO POWER UTILITY COMPANY, SERVICE AS INDICATED ON PLANS.
- CONDUIT AND CABLE BETWEEN METER FITTING AND DISCONNECT SWITCH. CONDUIT AND CABLE SHALL BE THE SAME AS THE SERVICE.
- LABEL ALL EQUIPMENT AS "ROADWAY LIGHTING" + DEVICE AND BUILDING# (IF APPLICABLE).
- 9. FOR WIRING DIAGRAM SEE SHEET 2 OF THIS SERIES.
- 10. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL

DESCRIPTION

ITEM

- 1) METER HOUSING, MILBANK U8436-0.
- ② SECONDARY SURGE ARRESTERS, 2 POLE, 650 VOLT.
- MAIN PANELBOARD IN A NEMA 1 ENCLOSURE, 480/240 VOLT, 1 PHASE, 3 WIRE, 2 SECTION, 200 AMP, 2 POLE MAIN CIRCUIT BREAKER 65,000 AMPERES SYMMETRICAL INTERRUPTING CAPACITY WITH CIRCUIT BREAKERS PER SCHEDULE ON PLANS. DOOR HINGES ON RIGHT SIDE.
- (4) LIGHTING CONTRACTOR, ELECTRICALLY HELD, 480 VOLT, 200 AMP, 2 POLE, 120 VOLT CONTROL, WITH 250 VOLT, 15 AMP CONTROL LINE FUSE, IN A NEMA 1 ENCLOSURE.
- SECONDARY BREAKER, 15 AMPERE TRIP, 120 VOLT, SINGLE POLE, 65,000 AMPERES SYMMETRICAL INTERRUPTING CAPACITY IN A NEMA 1 SURFACE MOUNTED ENCLOSURE.
- (6) STEP DOWN TRANSFORMER, 1500 VA, 480 VOLT PRIMARY, 120 VOLT SECONDARY, SINGLE PHASE, 60 HERTZ, DRY TYPE, NEMA 3R ENCLOSURE.
- 7 1-4" X 4" C-CHANNEL (UNISTRUT) FOR ALL EQUIPMENT STANDOFF
- ½" EQUIPMENT MOUNTING PANEL (4' W X 7' H)
- HAND-OFF-AUTO SELECTOR SWITCH WITH LEGEND PLATE. MOUNTED IN THE COVER OF ITEM 17.
- ROUTED TO BUILDING GROUND SYSTEM. IF NO GROUND AVAILABLE CONTRACTOR SHALL PROVIDE \S " DIA. X 10-0" LONG GROUND ROD WITHIN GROUND WELL.
- (f) GROUND BUS MOUNTED IN PANELBOARD ENCLOSURE.
- (2) PHOTO ELECTRIC CONTROL SWITCH MOUNTED ON SOUTH EXTERIOR SIDE OF BUILDING (VIEW UNOBSTRUCTED).
- 13 8"x8" WIREWAY WITH 3-3" NIPPLES.
- INTERNAL CONTROL WIRING SHALL BE #12 AWG, STRANDED, INSULATED NEC TYPE THWN/THHN RATED 600 VOLT, WITH SUITABLE COLOR CODING TO BE APPROVED BY THE ENGINEER BEFORE CONSTRUCTION.
- (5) 2" STAINLESS STEEL CONDUIT FROM SERVICE SAFETY SWITCH TO LIGHTING CONTROLLER WIREWAY.
- (6) SERVICE SAFETY SWITCH, 200 AMP, 600 VOLT, NON-FUSED, NEMA 4X STAINLESS STEEL ENCLOSURE.
- NEMA TYPE 1, 8"x6"x4" JUNCTION BOX & COVER WITHOUT KNOCKOUTS. ITEM 9 IS MOUNTED IN THE COVER.
- ${}^{(8)}$ INTERNAL CONDUIT AND FITTINGS SHALL BE ${}^3\!4$ " MINIMUM.
- (2) 4" STAINLESS STEEL CONDUIT TO LIGHTING CONTROLLER HANDHOLE. REFER TO SITE PLAN FOR LOCATION.
- 20 GCFI OUTLET.



DATE DESCRIPTION INTERIOR CONTROL 03-01-2018 REMOVED CONTRACTOR RELAY, ADDED GCFI OUTLET CONSOLE DETAILS REMOVED MER & PART NUMBERS

03-31-2016 REVISED NOTE 2

H8-03

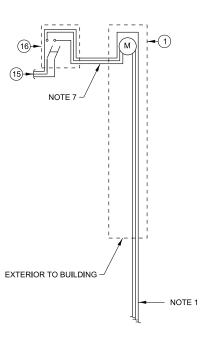
1 OF 2

CONTROL CONSOLE DETAILS (INTERIOR INSTALLATION)

LIGHTING CONTROLLER 12 EXTERIOR MOUNTED (WITHIN BUILDING) 2 6 200A OFF. ∠ GROUND TERMINAL 0 10

NOTES:

- TO UTILITY SERVICE. 480/240V, 1 PHASE, 3 WIRE, GROUNDED, WHEN A METER HOUSING IS REQUIRED (FED FROM PAD MOUNTED UTILITY TRANSFORMER WITHIN ILLINOIS TOLLWAY RIGHT-OF-WAY).
- 2. TO SERVICE PEDESTAL, 480/240V, 1 PHASE, 3 WIRE, GROUNDED. SEE STANDARD H5.
- 3. ITEM NUMBERS REFER TO EQUIPMENT LIST ON SHEET 1 OF THIS SERIES.
- PROVIDE CIRCUIT BREAKERS PER SCHEDULE ON THE CONTRACT PLANS (MINIMUM OF 12)
- 5. FOR INTERIOR EQUIPMENT LAYOUT SEE SHEET 1 OF THIS SERIES.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 7. CONDUIT AND CABLE BETWEEN METER FITTING AND DISCONNECT SWITCH ROUTED BETWEEN CONTROL CONSOLE AND CONCRETE FOUNDATION, WHEN A METER HOUSING IS REQUIRED. CONDUIT AND CABLE SHALL BE THE SAME AS THE SERVICE.



CONTROL CONSOLE DETAILS (INTERIOR INSTALLATION)

CONTROL CONSOLE WIRING DIAGRAM

Illinois Tollway

INTERIOR CONTROL CONSOLE DETAILS

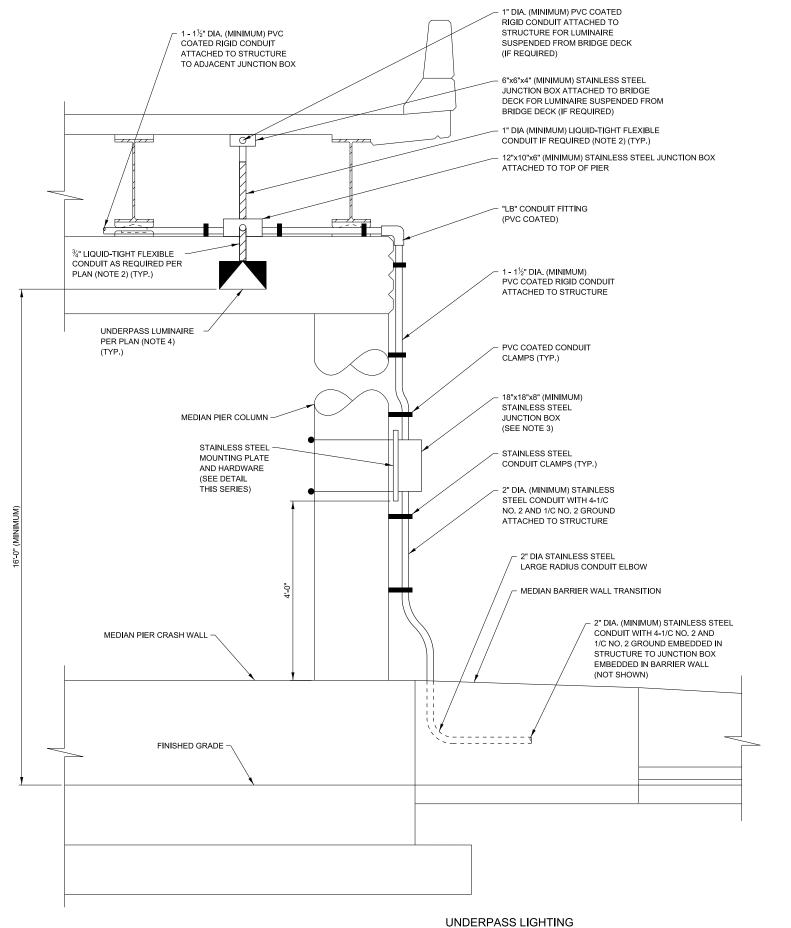
VERSION: 2018-03 STANDARD: H8-03

SHEET: 2 OF 2

APPROVED BY:

DATE:

O3/01/2018



NOTES:

- 1. USE OF THIS STANDARD DETAIL IS LIMITED TO THE INSTALLATION OF LIGHT EMITTING DIODE LUMINAIRES ONLY. FOR INSTALLATION OF OTHER LIGHT SOURCE TYPES, REFER TO PLAN DETAILS.
- LIQUID-TIGHT FLEXIBLE CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE SUFFICIENT LENGTH OF PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED CONDUIT AS REQUIRED SO THE MAXIMUM LENGTH OF REQUIRED LIQUID-TIGHT DOES NOT EXCEED 6'-0". LIQUID-TIGHT FLEXIBLE
- PROVIDE TWO (2) 2-POLE 30A, 600 VOLT CIRCUIT BREAKERS (EATON HFD OR APPROVED EQUAL), TWO (2) SURGE PROTECTION DEVICES (IN ACCORDANCE WITH ARTICLE 1065.02 OF THE STANDARD SPECIFICATIONS) AND SUFFICIENT 30 AMPERE, 600 VOLT TERMINAL BLOCKS TO SPLIT 480 VOLT WIRING FROM CIRCUIT BREAKER TO
- WIRING SHALL BE 2-1/C NO. 10 WITH 1/C NO. 10 GROUND OR AS INDICATED ON THE PLANS TERMINATING AT EACH LUMINAIRE. SEE PLANS FOR REMAINING WIRING REQUIREMENTS.
- THE CONTRACTOR SHALL PROVIDE EXPANSION/DEFLECTION FITTINGS (O-Z/GEDNEY TYPE AXDX) WHERE CONDUITS CROSS STRUCTURE EXPANSION JOINTS.
- IN NEW BRIDGE DECKS, PROVIDE STAINLESS STEEL SINGLE COIL, FLARED LOOP INSERTS CAST IN THE DECK FOR $\frac{3}{4}$ " DIAMETER STAINLESS STEEL THREADED RODS. IN EXISTING BRIDGE DECKS, PROVIDE DRILLED STAINLESS STEEL EXPANSION TYPE ANCHORS FOR ¾" DIAMETER STAINLESS STEEL THREADED RODS. EXPANSION TYPE ANCHORS SHALL HAVE A MINIMUM OF 500 POUNDS CAPACITY EACH.
- NOT USED.
- ALL ITEMS MOUNTED TO BRIDGE PIER SHALL BE OFFSET FROM THE STRUCTURE A MINIMUM OF ONE (1) INCH BY USE OF STAINLESS STEEL C-CHANNEL.
- WHERE BEAM DEPTH EXCEEDS FIVE (5) FEET. THE DESIGNER SHALL PROVIDE A METHOD FOR ATTACHMENT OF THE HANGER ASSEMBLIES SUCH THAT THE LENGTH OF THE ASSEMBLIES DO NOT EXCEED FIVE (5) FEET.
- 10. DETAILS SHOWN ARE FOR UNDERPASS LIGHTING INSTALLATIONS FED FROM THE MEDIAN BARRIER WALL. FOR INSTALLATIONS FED FROM A BRIDGE ABUTMENT, REFER TO THE PLAN DETAILS.
- 11. UNDERPASS LUMINAIRES SUSPENDED FROM BRIDGE DECK SHALL BE INSTALLED CENTERED BETWEEN THE BRIDGE BEAMS. THE LUMINAIRE SHALL BE LOCATED SUCH THAT IT IS SETBACK A MINIMUM OF 1 FOOT FROM THE OUTSIDE EDGE OF THE SHOULDER PAVEMENT WITH THE TOP OF THE LUMINAIRE MOUNTING PLATE A MAXIMUM OF 1 INCH FROM THE BOTTOM OF THE BRIDGE BEAM. IN NO CASE SHALL ANY PORTION OF THE SUSPENDED LUMINAIRE OR SUPPORTING HARDWARE BE LOWER THAN 14'-6" WHEN MEASURED TO THE OUTSIDE EDGE OF THE ADJACENT SHOULDER PAVEMENT.
- 12. IN NO INSTANCE SHALL ANY UNDERPASS LUMINAIRE OR ANY OTHER ELECTRICAL EQUIPMENT BE INSTALLED BELOW THE ELEVATION OF THE BOTTOM OF THE BRIDGE BEAM WHEN OVER ANY PAVEMENT (ROADWAY OR SHOULDER) WITH EXCEPTION OF THOSE MOUNTED TO THE MEDIAN PIER AT WHICH CASE THE MINIMUM HEIGHT SHALL BE 16'-0" WHEN MEASURED TO THE LOWEST PORTION OF THE LUMINAIRE OR SUPPORTING HARDWARE.
- 13. LUMINAIRE MOUNTING PLATE FOR LUMINAIRES SUSPENDED FROM BRIDGE DECK SHALL BE OF THE DIMENSIONS NECESSARY AND FIELD DRILLED TO ACCOMMODATE THE SPECIFIC LUMINAIRE PROVIDED AND ASSOCIATE LUMINAIRE HANGER ASSEMBLIES.
- 14. SEE PLANS FOR UNDERPASS LUMINAIRE LOCATIONS AND MOUNTING HEIGHTS.
- 15. SEE STRUCTURAL DRAWINGS FOR SPECIFIC STRUCTURE DETAILS.
- 16. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.

Tollway

UNDERPASS LIGHTING INSTALLATION DETAILS

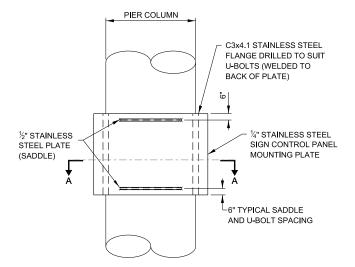
H9-02

1 of 3

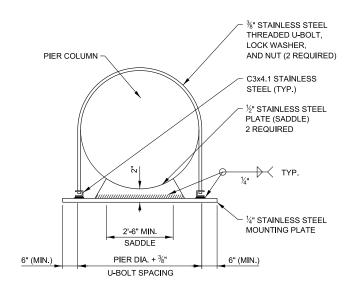
DESCRIPTION 03-01-2022 REVISED CALLOUT FOR STAINLESS STEEL VIBRATION DAMPER ASSEMBLY REVISED NOTES TO REMOVE INCIDENTALS

2022-03

(MEDIAN PIER MOUNTED LUMINAIRE & FEEDER INSTALLATION)

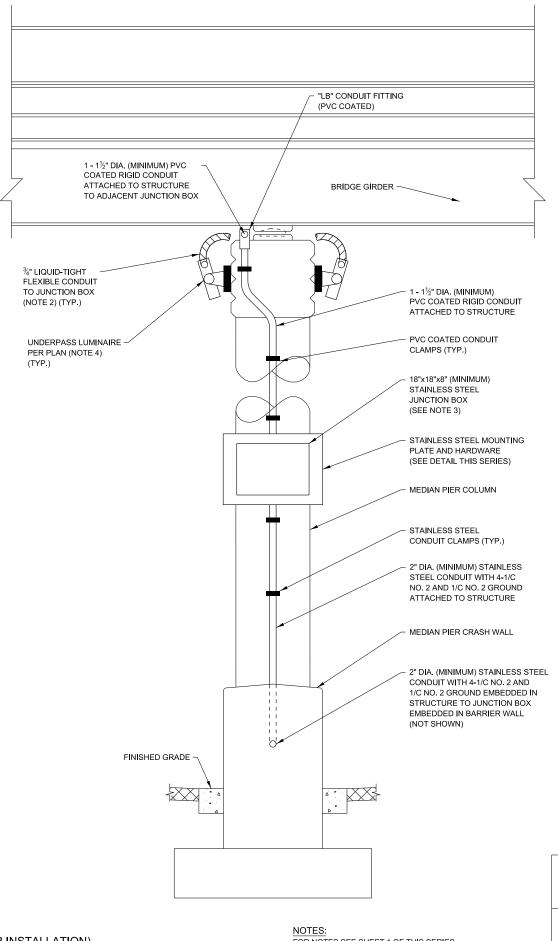


ELEVATION



SECTION A-A

MEDIAN PIER JUNCTION BOX MOUNTING PLATE DETAIL



APPROVED BY: Paul Kovacs 03/01/2022

UNDERPASS LIGHTING (MEDIAN PIER MOUNTED LUMINAIRE & FEEDER INSTALLATION)

FOR NOTES SEE SHEET 1 OF THIS SERIES.

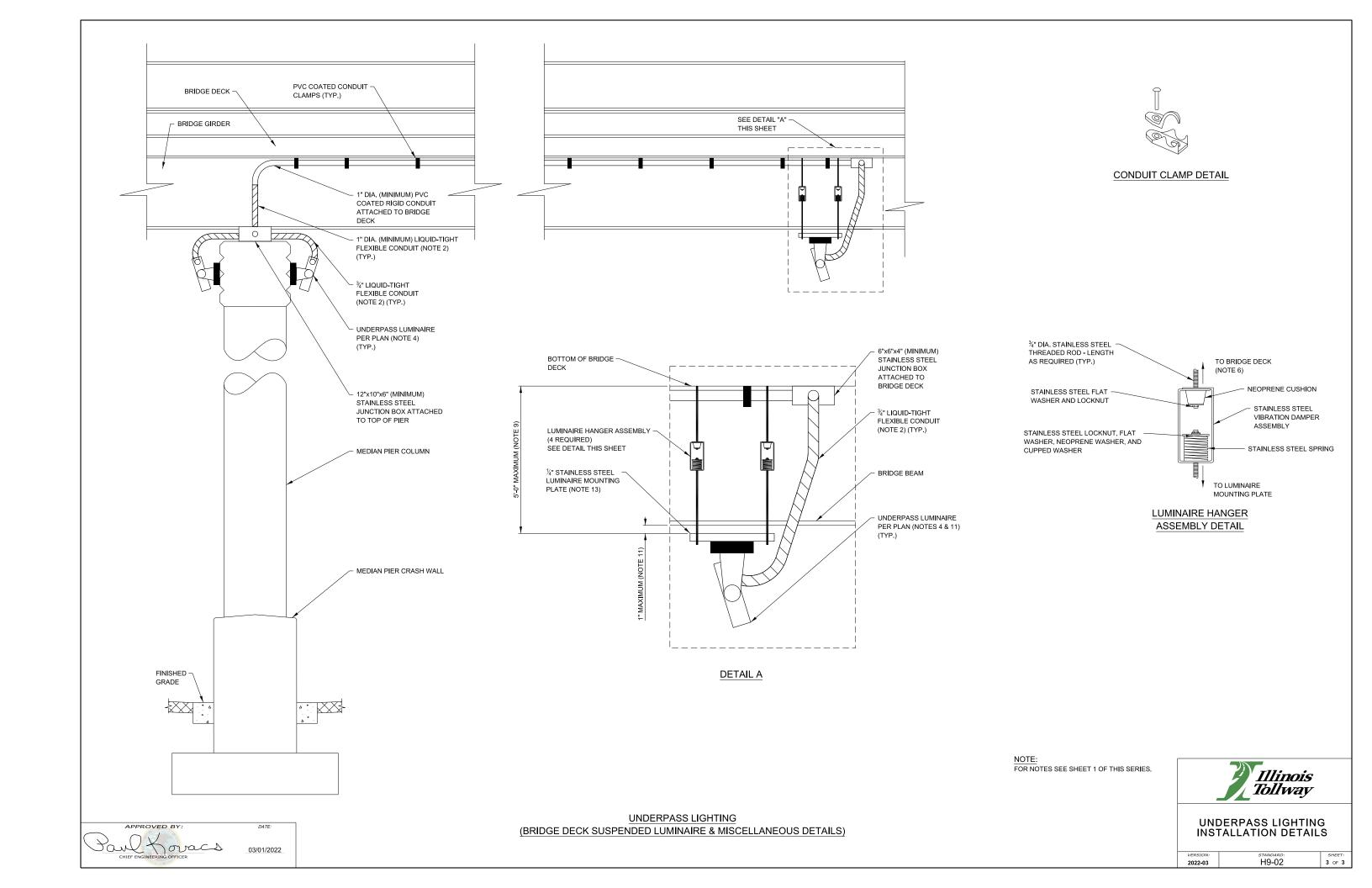
UNDERPASS LIGHTING INSTALLATION DETAILS

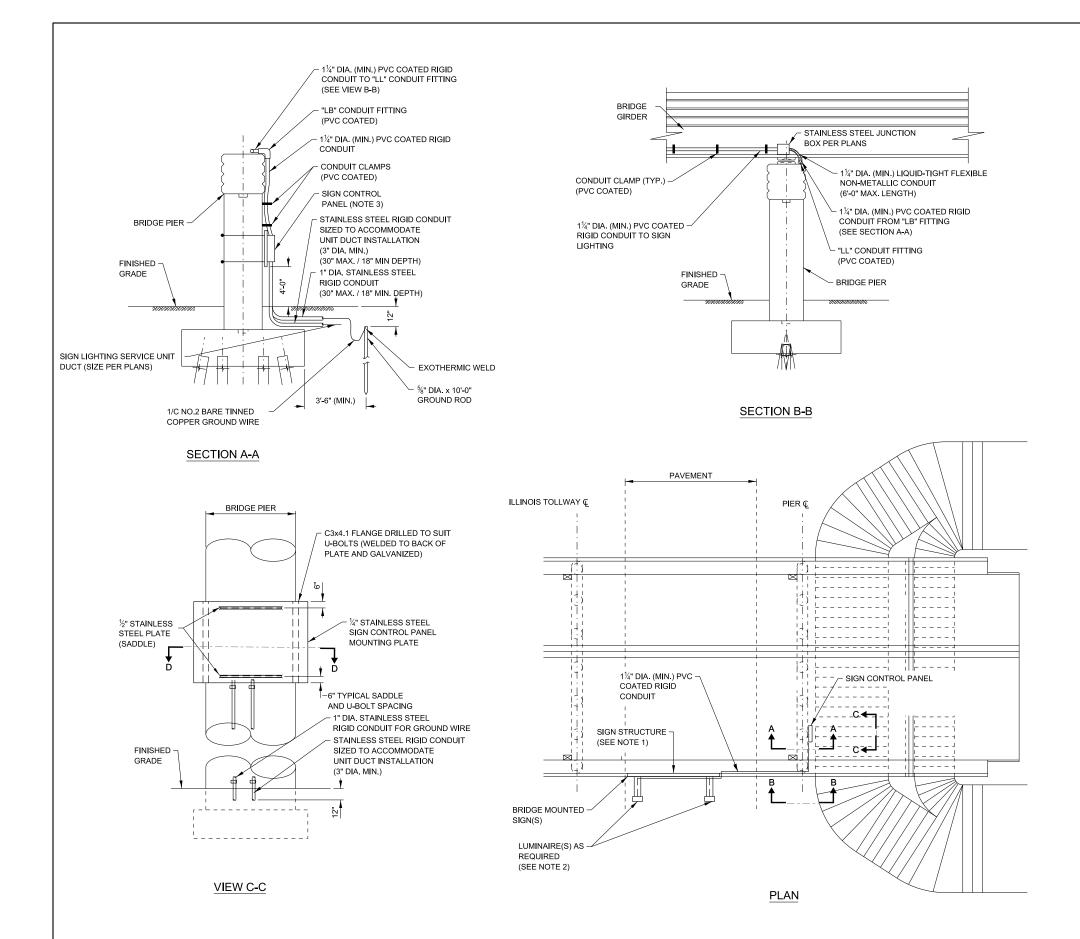
2022-03

2 OF 3

H9-02

Illinois Tollway



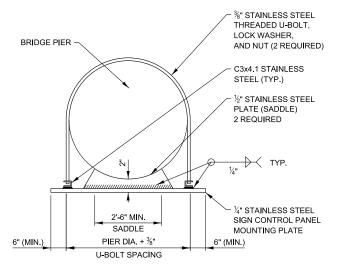


03/01/2024

NOTES:

- 1. FOR SIGN STRUCTURE INSTALLATION DETAILS SEE SHEET 3 OF 3 IN THIS SERIES.
- FOR SIGN LUMINAIRE INSTALLATION AND WIRING AND FOR INSTALLATION OF CONDUIT IN FIXTURE SUPPORT CHANNEL, SEE STANDARD H14.
- 3. FOR TYPICAL SIGN CONTROL PANEL DETAILS SEE SHEET 2 OF 3 IN THIS SERIES.
- DETAILS SHOWN ON THIS SHEET ARE WITHOUT FLASHING BEACON. INSTALLATION OF FLASHING BEACON REQUIRES ADDITIONAL WORK AS SHOWN ON TYPICAL SIGN CONTROL PANEL DETAIL (SHEET 2 OF 3 IN THIS SERIES).
- LUMINAIRE SUPPORT MEMBERS TO BE INSTALLED ONLY WHEN THE SIGN IS TO BE ILLUMINATED.

 DESIGNER TO DETERMINE REQUIREMENTS FOR SIGN LIGHTING BASED ON ROADWAY GEOMETRY.
- 6. PROVIDE 12" FLASHING BEACON ONLY WHERE INDICATED ON PLANS. FLASHING BEACON TO BE ATTACHED TO SUPPORT WITH STAINLESS STEEL SCREWS AND NEOPRENE SPACERS. DRILLED SCREW HOLES TO BE SEALED WATER-TIGHT.
- SEE STRUCTURAL DRAWINGS FOR DETAILS OF SIGN SUPPORTS AND FIXTURE SUPPORT CHANNELS.
- 3. CONDUITS, CONDUIT FITTINGS, CLAMPS, AND APPURTENANCES ATTACHED TO ALUMINUM STRUCTURAL SUPPORTS SHALL BE PVC COATED ALUMINUM. PVC COATED GALVANIZED STEEL CONDUITS, CONDUIT FITTINGS, CLAMPS, AND APPURTENANCES SHALL BE UTILIZED WHERE ATTACHED TO STEEL STRUCTURAL SUPPORTS OR WHERE ATTACHED TO CONCRETE STRUCTURES UNLESS NOTED OTHERWISE HEREIN. THREADED JOINTS BETWEEN DISSIMILAR METALS SHALL BE COATED WITH AN APPROVED THREAD LUBRICANT.
- 9. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.

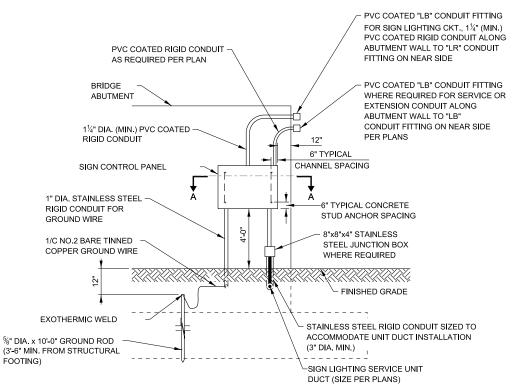


SECTION D-D

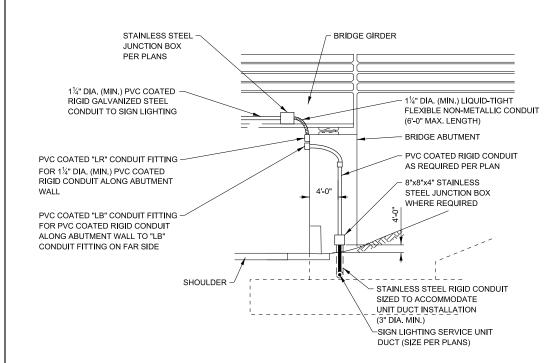
Illinois Tollway

1 OF 3

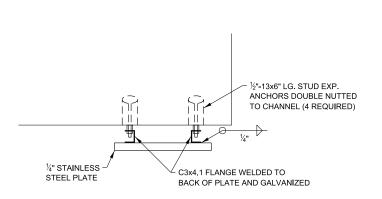
 $\frac{\text{BRIDGE MOUNTED SIGN LIGHTING}}{\text{(BRIDGE PIER MOUNTED FEEDER INSTALLATION)}}$



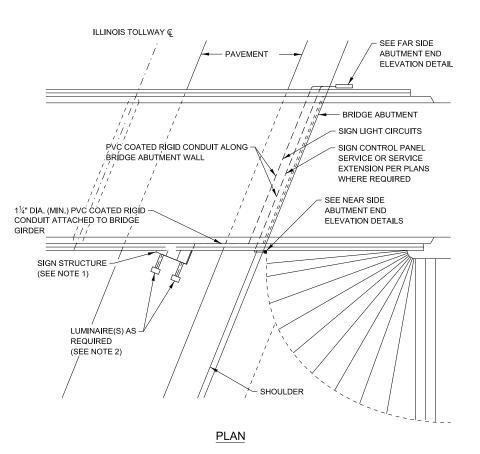
FAR SIDE ABUTMENT END ELEVATION

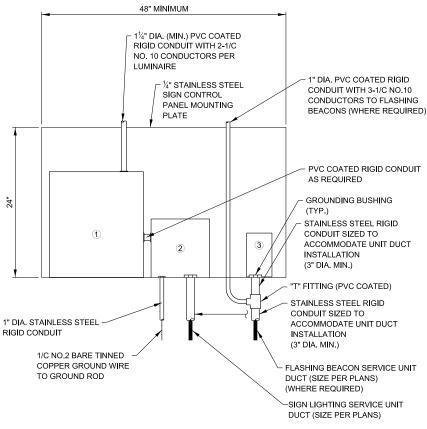


NEAR SIDE ABUTMENT END ELEVATION



SECTION A-A





LEGEND:

- 1 18"x18"x8" STAINLESS STEEL JUNCTION BOX. PROVIDE SUFFICIENT 30 AMPERE, 600 VOLT TERMINAL BLOCKS TO SPLIT 480 VOLT WIRING FROM SIGN SERVICE CIRCUIT BREAKER TO TWO NO. 10 WIRES FOR EACH LUMINAIRE.
- ② SIGN LIGHTING SERVICE CIRCUIT BREAKER (30 AMP/2 POLE) IN NEMA TYPE 4 C.I. ENCLOSURE, OZ TYPE "YW" WITH MOUNTING FEET OR APPROVED EQUAL. PROVIDE SURGE PROTECTION DEVICE (IN ACCORDANCE WITH ARTICLE 1065.02 OF THE STANDARD SPECIFICATIONS).
- 3 FLASHING BEACON CONTROLLER.

TYPICAL SIGN CONTROL PANEL DETAIL (FOR TYPICAL WIRING DIAGRAM SEE STANDARD H14)

NOTES: SEE SHEET 1 OF THIS SERIES FOR NOTES.

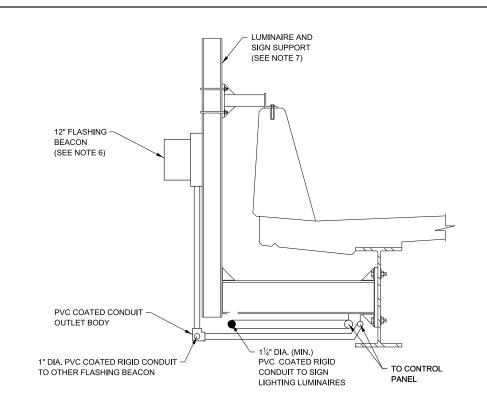


BRIDGE MOUNT SIGN LIGHTING DETAILS

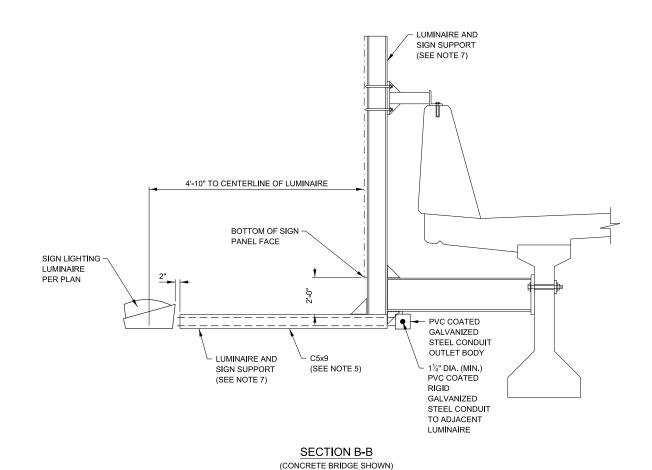
2 OF 3

VERSION: STANDARD: 2024-03 H10-05

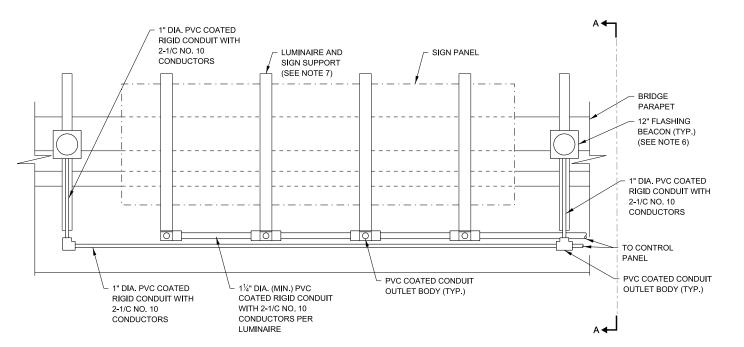
BRIDGE MOUNTED SIGN LIGHTING (BRIDGE ABUTMENT MOUNTED FEEDER INSTALLATION)



SECTION A-A (STEEL BRIDGE SHOWN)

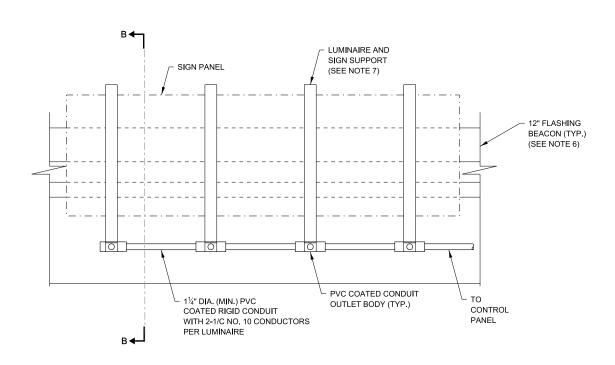


BRIDGE MOUNTED SIGN LIGHTING (LUMINAIRE MOUNTING & CONDUIT DETAILS)



TYPICAL FRONT ELEVATION WITH FLASHING BEACON

(LUMINAIRES NOT SHOWN FOR CLARITY)



TYPICAL FRONT ELEVATION WITHOUT FLASHING BEACON

(LUMINAIRES NOT SHOWN FOR CLARITY)



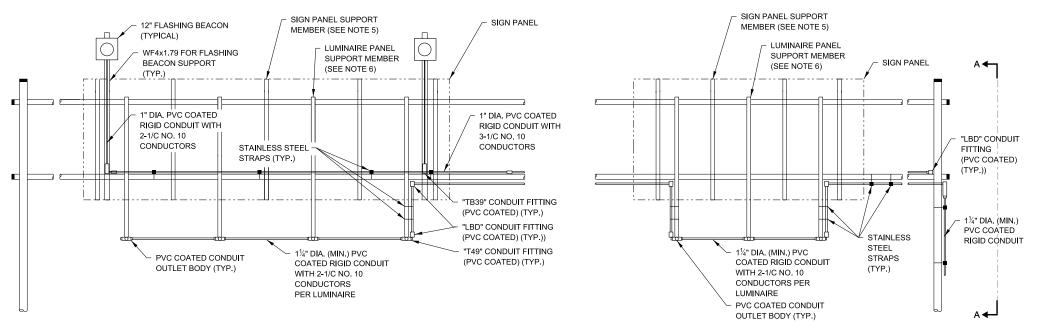
BRIDGE MOUNT SIGN LIGHTING DETAILS

H10-05

NOTES: SEE SHEET 1 OF THIS SERIES FOR NOTES.

2024-03

SHEET: 3 OF 3

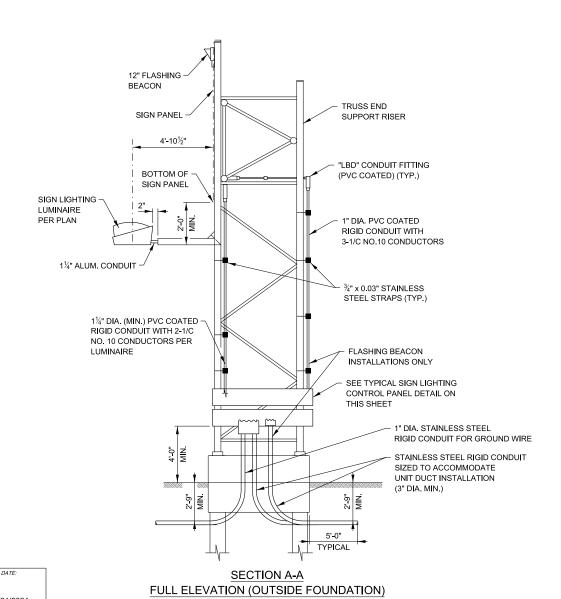


FRONT ELEVATION WITHOUT FLASHING BEACON

(LUMINAIRES NOT SHOWN FOR CLARITY)

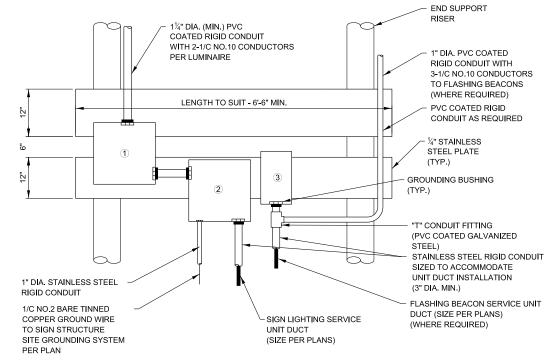
NOTES:

- 1. CONDUITS, CONDUIT FITTINGS, CLAMPS, AND APPURTENANCES ATTACHED TO ALUMINUM STRUCTURAL SUPPORTS SHALL BE PVC COATED ALUMINUM. PVC COATED GALVANIZED STEEL CONDUITS, CONDUIT FITTINGS, CLAMPS, AND APPURTENANCES SHALL BE UTILIZED WHERE ATTACHED TO STEEL STRUCTURAL SUPPORTS OR WHERE ATTACHED TO CONCRETE STRUCTURES UNLESS NOTED OTHERWISE HEREIN. THREADED JOINTS BETWEEN DISSIMILAR METALS SHALL BE COATED WITH AN APPROVED THREAD LUBRICANT.
- PROVIDE 12" FLASHING BEACON ONLY WHERE INDICATED ON PLANS. FLASHING BEACON TO BE ATTACHED TO SUPPORT WITH STAINLESS STEEL SCREWS AND NEOPRENE SPACERS. DRILLED SCREW HOLES TO BE SEALED WATER-TIGHT.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- . ALL STEEL TO BE HOT DIPPED GALVANIZED AFTER WELDING PER ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATION SECTION 733.
- 5. SEE STRUCTURAL DRAWINGS FOR DETAILS OF SIGN SUPPORTS AND FIXTURE SUPPORT CHANNELS.
- LUMINAIRE SUPPORT MEMBERS TO BE INSTALLED ONLY WHEN STRUCTURE IS TO BE ILLUMINATED. DESIGNER TO DETERMINE REQUIREMENTS FOR SIGN LIGHTING BASED ON ROADWAY GEOMETRY.
- 7. FOR SIGN LUMINAIRE INSTALLATION AND WIRING AND FOR INSTALLATION OF CONDUIT IN FIXTURE SUPPORT CHANNEL, SEE STANDARD H14.



FRONT ELEVATION WITH FLASHING BEACON

(LUMINAIRES NOT SHOWN FOR CLARITY)



LEGEND:

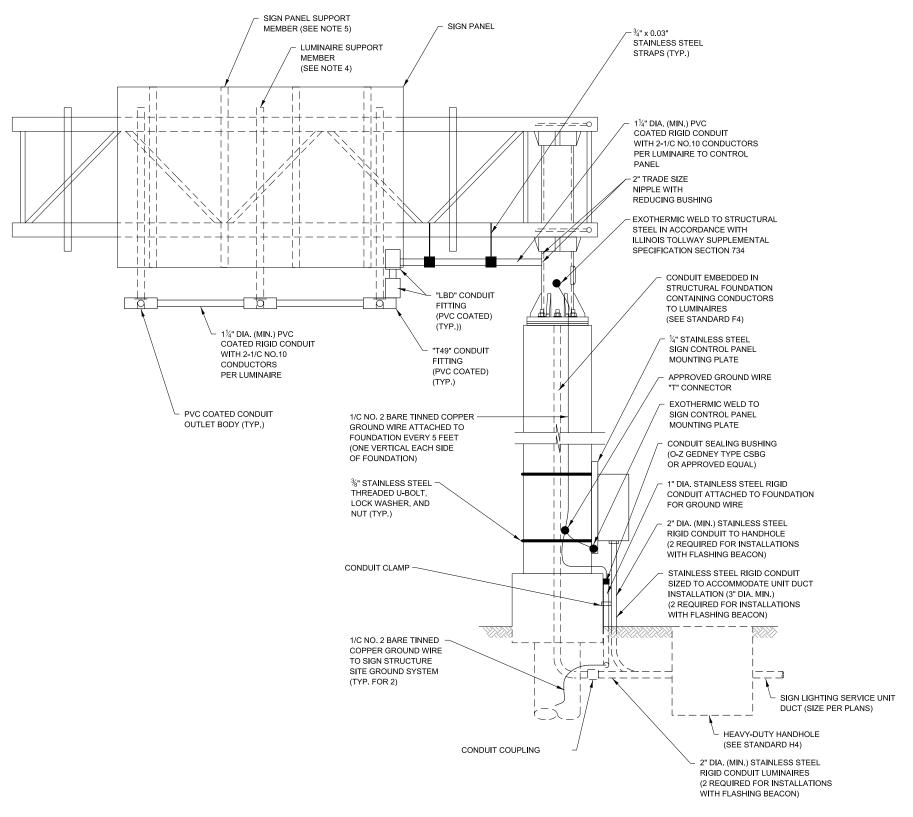
- 1 18"x18"x8" STAINLESS STEEL JUNCTION BOX. PROVIDE SUFFICIENT 30 AMPERE, 600 VOLT TERMINAL BLOCKS TO SPLIT 480 VOLT WIRING FROM SIGN SERVICE CIRCUIT BREAKER TO TWO NO. 10 WIRES FOR EACH LUMINAIRE.
- SIGN LIGHTING SERVICE CIRCUIT BREAKER (30 AMP/2 POLE) IN NEMA TYPE 4 STAINLESS STEEL TYPE 316 WITH MOUNTING FEET OR APPROVED EQUAL. PROVIDE SURGE PROTECTION DEVICE (IN ACCORDANCE WITH ARTICLE 1065 02 OF THE STANDARD SPECIFICATIONS)
- ③ FLASHING BEACON CONTROLLER.

TYPICAL SIGN LIGHTING CONTROL PANEL

(FOR TYPICAL WIRING DIAGRAM SEE STANDARD H14)



| R E V I S I O N S | DESCRIPTION | 03-01-2024 | REVISED NOTE 6 TO ADDRESS SIGN | LIGHTING UPDATES. | UIGHTING UPDATES. | STAINLESS STEEL SERVICE JUNCTION | BOX. | STAINLESS PROTECTIVE DEVICE. | VERSION: | STANDARD: | STAN



NOTES:

- A GROUND WIRE (NO. 12 AWG.) WILL BE RUN FROM THE GROUNDING BUSHING (OVERHEAD SUPPORT) TO THE GROUNDING BUSHING IN THE JUNCTION BOX.
- 2. ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 3. CONDUITS, CONDUIT FITTINGS, CLAMPS, AND APPURTENANCES ATTACHED TO ALUMINUM STRUCTURAL SUPPORTS SHALL BE PVC COATED ALUMINUM. PVC COATED GALVANIZED STEEL CONDUITS, CONDUIT FITTINGS, CLAMPS, AND APPURTENANCES SHALL BE UTILIZED WHERE ATTACHED TO STEEL STRUCTURAL SUPPORTS OR WHERE ATTACHED TO CONCRETE STRUCTURES UNLESS NOTED OTHERWISE HEREIN. THREADED JOINTS BETWEEN DISSIMILAR METALS SHALL BE COATED WITH AN APPROVED THREAD LUBRICANT.
- 4. LUMINAIRE SUPPORT MEMBERS TO BE INSTALLED ONLY WHEN THE SIGN IS TO BE ILLUMINATED. DESIGNER TO DETERMINE REQUIREMENTS FOR SIGN LIGHTING BASED ON ROADWAY GEOMETRY.
- SEE STRUCTURAL DRAWINGS FOR DETAILS OF SIGN SUPPORTS AND FIXTURE SUPPORT CHANNELS.
- 6. FOR SIGN LUMINAIRE INSTALLATION AND WIRING AND FOR INSTALLATION OF CONDUIT IN FIXTURE SUPPORT CHANNEL, SEE STANDARD H14.
- ALL STEEL TO BE HOT DIPPED GALVANIZED AFTER WELDING PER ILLINOIS TOLLWAY SUPPLEMENTAL SPECIFICATION SECTION 733.
- 8. PROVIDE 12" FLASHING BEACON ONLY WHERE INDICATED ON PLANS. FLASHING BEACON TO BE ATTACHED TO SUPPORT WITH STAINLESS STEEL SCREWS AND NEOPRENE SPACERS. DRILLED SCREW HOLES TO BE SEALED WATERTIGHT.

TYPICAL FRONT ELEVATION WITH FLASHING BEACON

(LUMINAIRES NOT SHOWN FOR CLARITY)

Maria Nashi

DATE:

3/01/2024



1 OF 2

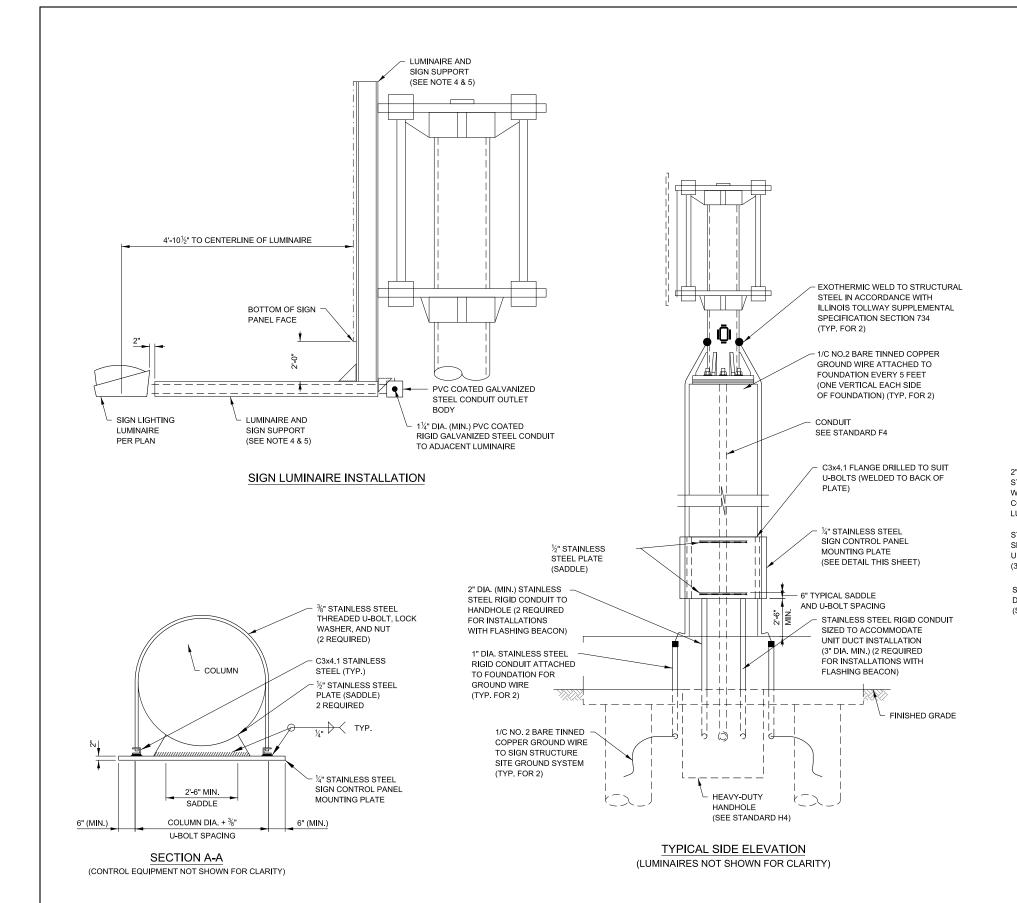
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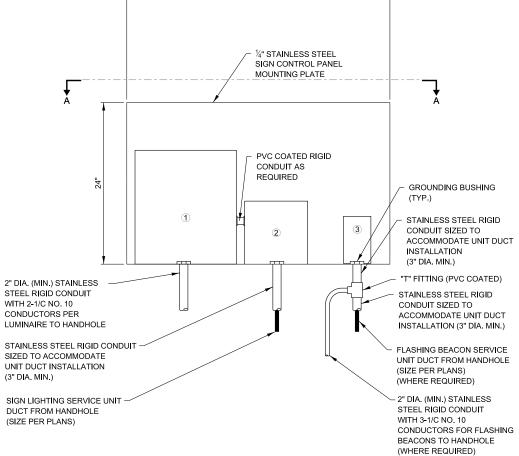
03-01-2024 REVIS I O N S
LIGHTING UPDATES.

03-01-2018 ADDED SURGE PROTECTION DEVICE.

03-11-2015 REVISED CONDUITS TO STAINLESS STEEL.

version: standard: 2024-03 H12-05





48" MINIMUM

LEGEND:

- 18"x18"x8" STAINLESS STEEL JUNCTION BOX. PROVIDE SUFFICIENT 30 AMPERE, 600 VOLT TERMINAL BLOCKS TO SPLIT 480 VOLT WIRING FROM SIGN SERVICE CIRCUIT BREAKER TO TWO NO. 10 WIRES FOR EACH LUMINAIRE.
- 2 SIGN LIGHTING SERVICE CIRCUIT BREAKER (30 AMP/2 POLE) IN NEMA TYPE 4 C.I. ENCLOSURE, OZ TYPE "YW" WITH MOUNTING FEET OR APPROVED EQUAL. PROVIDE SURGE PROTECTION DEVICE (IN ACCORDANCE WITH ARTICLE 1065.02 OF THE STANDARD SPECIFICATIONS).
- 3 FLASHING BEACON CONTROLLER.

TYPICAL SIGN CONTROL PANEL DETAIL

(FOR TYPICAL WIRING DIAGRAM SEE STANDARD H14)

NOTES:

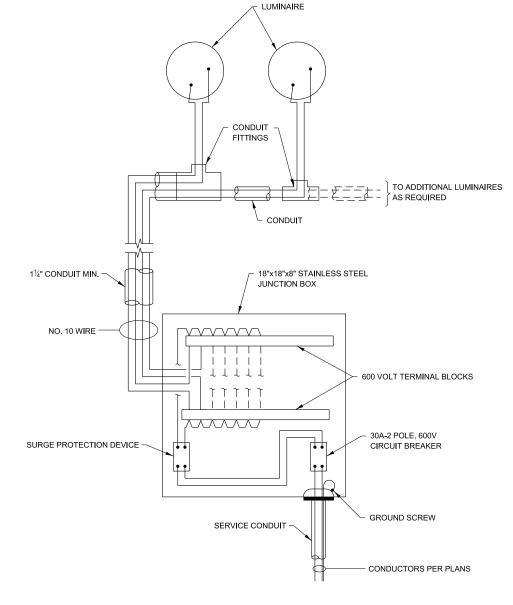
SEE SHEET 1 OF THIS SERIES FOR NOTES.



SIGN LIGHTING DETAILS

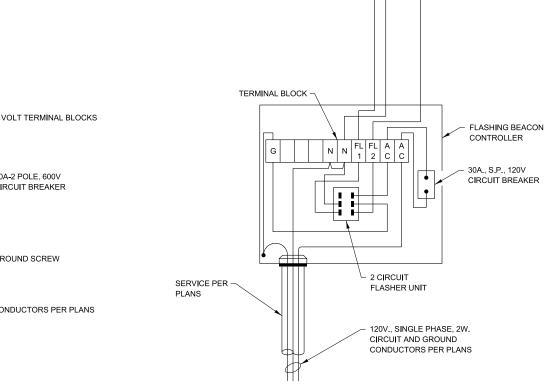
H12-05 2024-03

2 OF 2



SIGN WIRING DIAGRAM

NO SCALE

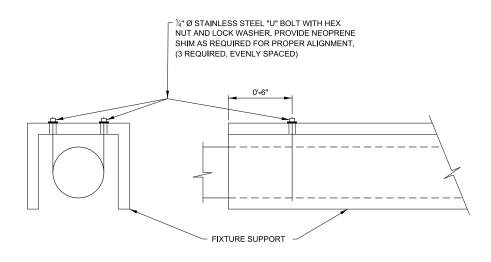


FLASHING BEACON WIRING DIAGRAM NO SCALE

FLASHING BEACONS

NOTES:

- SEE STRUCTURAL DRAWINGS FOR DETAILS OF SIGN SUPPORTS AND FIXTURE SUPPORT CHANNELS.
- 2. CONDUITS, CONDUIT FITTINGS, CLAMPS, AND APPURTENANCES ATTACHED TO ALUMINUM STRUCTURAL SUPPORTS SHALL BE PVC COATED ALUMINUM. PVC COATED GALVANIZED STEEL CONDUITS, CONDUIT FITTINGS, CLAMPS, AND APPURTENANCES SHALL BE UTILIZED WHERE ATTACHED TO STEEL STRUCTURAL SUPPORTS OR WHERE ATTACHED TO CONCRETE STRUCTURES UNLESS NOTED OTHERWISE HEREIN. THREADED JOINTS BETWEEN DISSIMILAR METALS SHALL BE COATED WITH AN APPROVED THREAD LUBRICANT.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 4. INSTALL SURGE PROTECTION DEVICE IN ACCORDANCE WITH ARTICLE 1065.02 OF THE SUPPLEMENTAL SPECIFICATIONS.



LUMINAIRE SUPPORT DETAIL
NO SCALE

Illinois Tollway

SIGN LUMINAIRE MOUNTING
DETAIL AND WIRING
DIAGRAMS

 VERSION:
 STANDARD:
 SHEET:

 2020-03
 H14-04
 1 of 1

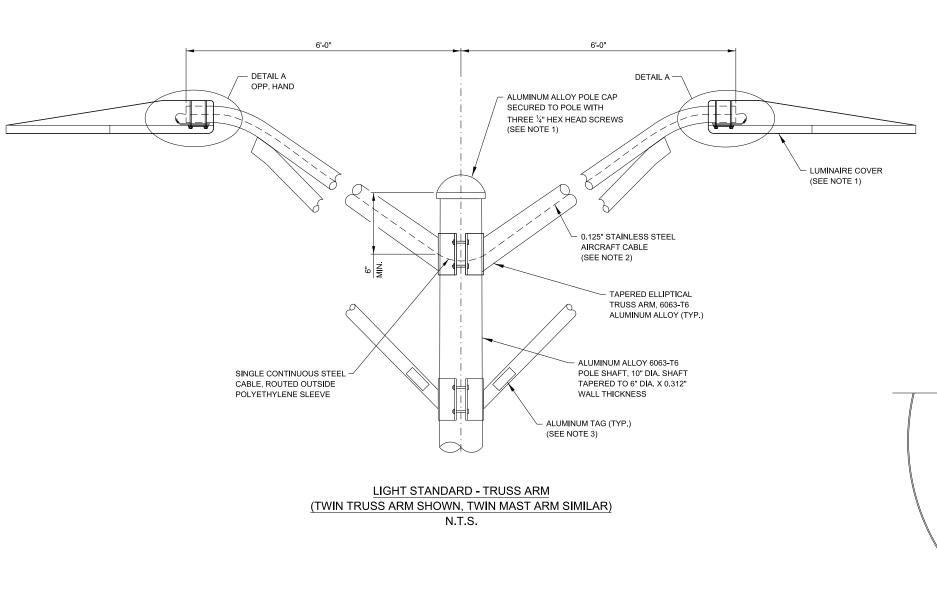
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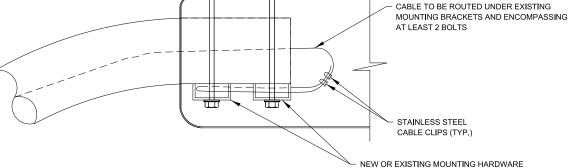
O3/01/2020

CHIEF ENGINEERING OFFICER

03/01/2020



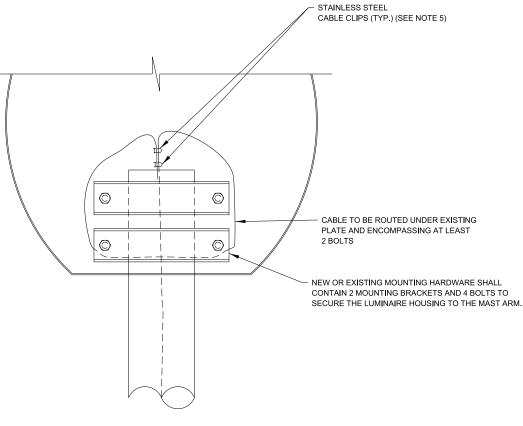




SHALL CONTAIN 2 MOUNTING BRACKETS
AND 4 BOLTS TO SECURE THE LUMINAIRE DETAIL A HOUSING TO THE MAST ARM. N.T.S.

NOTES:

- POLE CAP TO BE REMOVED AND LUMINAIRE LID TO BE OPENED FOR
 PLACEMENT OF THE CABLE ASSEMBLY AND PUT BACK IN PLACE. NEW CAP SCREWS SHALL BE USED.
- 2. THE BREAKING STRENGTH OF THE ASSEMBLED CABLE SHALL BE 1,700 POUNDS MINIMUM. ALLOW FOR 9" TO 12" SLACK IN THE CABLE.
- 3. ALUMINUM TAG WITH POLE IDENTIFICATION NUMBERS AS PER SPECIAL PROVISIONS.
- 4. CONTRACTOR SHALL ROUTE CABLE WITHIN LUMINAIRE IN SUCH A WAY THAT IT DOES NOT BECOME PINCHED BETWEEN THE MAST ARM AND MOUNTING BRACKET.
- 5. CABLE LOOPS SHALL BE CLOSED SUCH THAT EACH END OF THE CABLE PASSES THROUGH CLIPS IN OPPOSING DIRECTIONS.
- 6. MINIMIZE SLACK WITHIN LUMINAIRE.



BOTTOM VIEW N.T.S.

DATE DESCRIPTION 03-01-2024 ADDED DETAILS REGARDING THE HARDWARE USED TO SECURE THE LUMINAIRE HOUSING. 03-01-2020 REVISED BRACKET AND ROUTING DETAIL

	MAST ARM CABLE ASSEMBLY
	(TWIN MAST ARM)
LS.	

2024-03 H16-02 1 OF 1

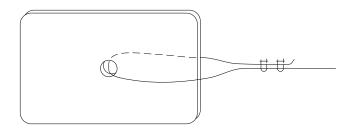
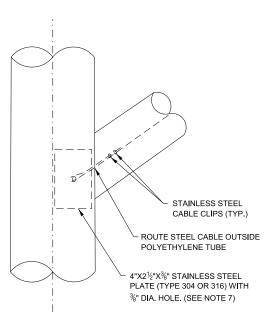
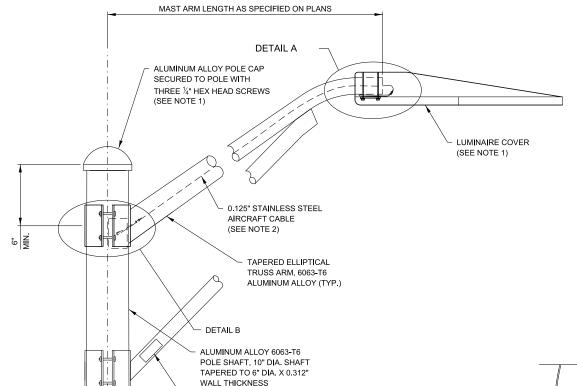


PLATE ATTACHMENT DETAIL



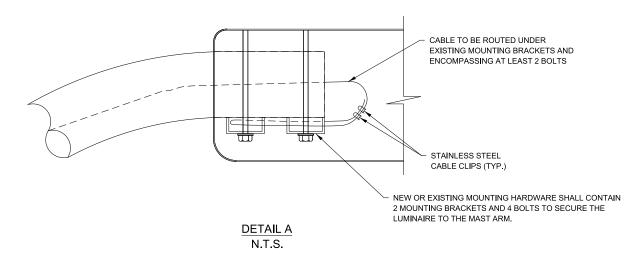
DETAIL B
(BRACKET CLAMPS OMITTED
FOR CLARITY)
N.T.S.



ALUMINUM TAG (TYP.)

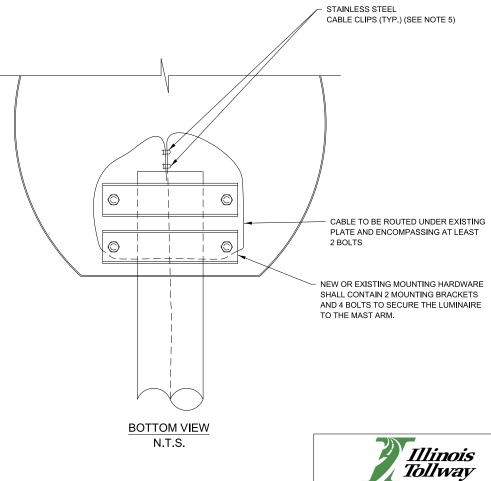
(SEE NOTE 3)

LIGHT STANDARD - TRUSS ARM (SINGLE TRUSS ARM SHOWN, SINGLE MAST ARM SIMILAR) N.T.S.



NOTES:

- POLE CAP TO BE REMOVED AND LUMINAIRE LID TO BE OPENED FOR
 PLACEMENT OF THE CABLE ASSEMBLY AND PUT BACK IN PLACE. NEW CAP
 SCREWS SHALL BE USED.
- THE BREAKING STRENGTH OF THE ASSEMBLED CABLE SHALL BE 1,700 POUNDS MINIMUM. ALLOW FOR 9" TO 12" SLACK IN THE CABLE.
- 3. ALUMINUM TAG WITH POLE IDENTIFICATION NUMBERS AS PER SPECIAL
- 4. CONTRACTOR SHALL ROUTE CABLE WITHIN LUMINAIRE IN SUCH A WAY THAT IT DOES NOT BECOME PINCHED BETWEEN THE MAST ARM AND MOUNTING BRACKET
- 5. CABLE LOOPS SHALL BE CLOSED SUCH THAT EACH END OF THE CABLE PASSES THROUGH CLIPS IN OPPOSING DIRECTIONS.
- 6. MINIMIZE SLACK WITHIN LUMINAIRE.
- 7. ALL PLATE EDGES SHALL BE SMOOTH.



Maria Nashi

03/01/2024

DATE DESCRIPTION

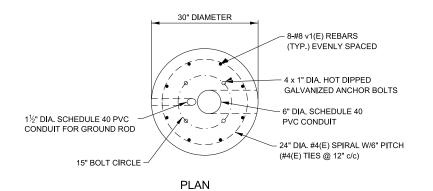
03-01-2024 ADDED DETAILS REGARDING THE
HARDWARE USED TO SECURE THE
LUMINAIRE HOUSING.

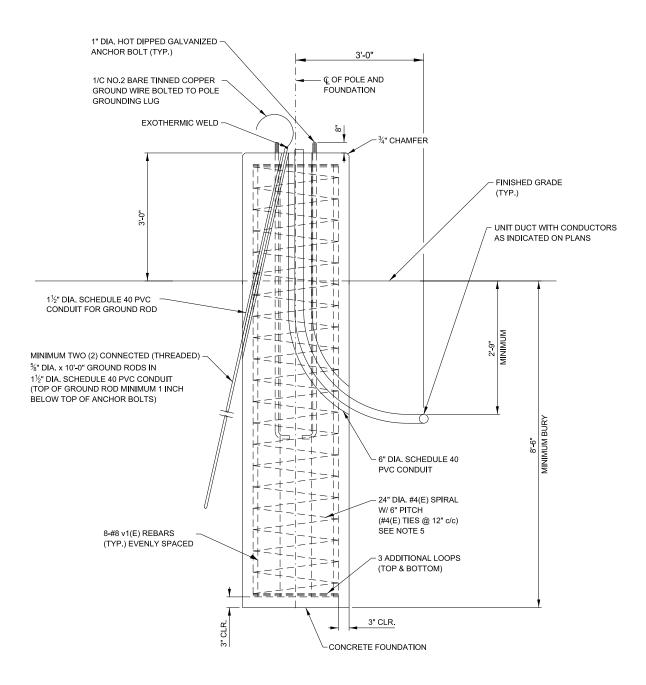
03-01-2020 REVISED BRACKET AND ROUTING DETAILS.

MAST ARM CABLE ASSEMBLY (SINGLE MAST ARM)

 VERSION:
 STANDARD:
 SHEET:

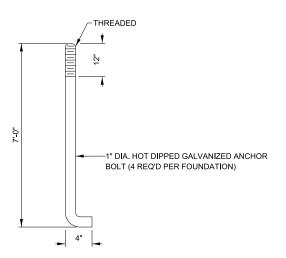
 2024-03
 H17-02
 1 of 1





NOTES:

- . FOR DETAILS OF FUSE HOLDER, POLE BASE WIRING AND CONDUCTOR SPLICE SEE STANDARD H2.
- 2. ALL REINFORCEMENT BARS SHALL BE EPOXY COATED.
- ALL EQUIPMENT SHALL BE GROUNDED AND BONDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND THE NATIONAL ELECTRICAL SAFETY CODE.
- 4. POLE SHALL BE MOUNTED AND WIRED PER DETAIL FOR "BARRIER WALL MOUNTED UNITS" ON LIGHT STANDARD DETAILS (STANDARD H2)
- 5. ADJUST SPIRAL BAR SPACING AS NEEDED TO ACCOMMODATE



ANCHOR BOLT DETAIL



H18-02

1 OF 1

DATE DESCRIPTION

03-01-2023 REVISED v1(E) BARS FROM #6 TO #8

03-01-2022 INCREASED ANCHOR BOLT PROJECTION

PARKING LOT LIGHT
FOUNDATION DETAILS

2023-03

ELEVATION

Manar Mashif

