TITLE	DATE*
BRIDGE INSPECTION RECEPTACLES	11-09
CONCRETE HANDHOLE TYPE W	11-09
CONNECTIONS	11-09
CONDUIT EXPANSION FITTINGS	11-09
HANDHOLES	11-09
LIGHT STANDARDS	11-09
MEDIAN ELECTRICAL DETAILS 1	11-09
MEDIAN ELECTRICAL DETAILS 2	11-09
NAVIGATION LIGHTS	11-09
PRECAST RETAINING WALL ELECT. DETAILS	11-09
SERVICE ENTRANCE(CLP) AND CABINET - TYPE 1	11-09
SERVICE ENTRANCE(UI) AND CABINET - TYPE 1	11-09
SERVICE ENTRANCE AND CABINET - TYPE 2	11-09
BRIDGE MEDIAN ELECTRICAL DETAILS	11-09
BRIDGE RELATED GUIDE SHEET TITLE	11-09
TRANSFORMER PAD	11-09
UNDERBRIDGE LUMINARE	11-09

TITLE	DATE*

*REVISED OR ADDED

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/6/2009

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STATE OF CONNECTICUT
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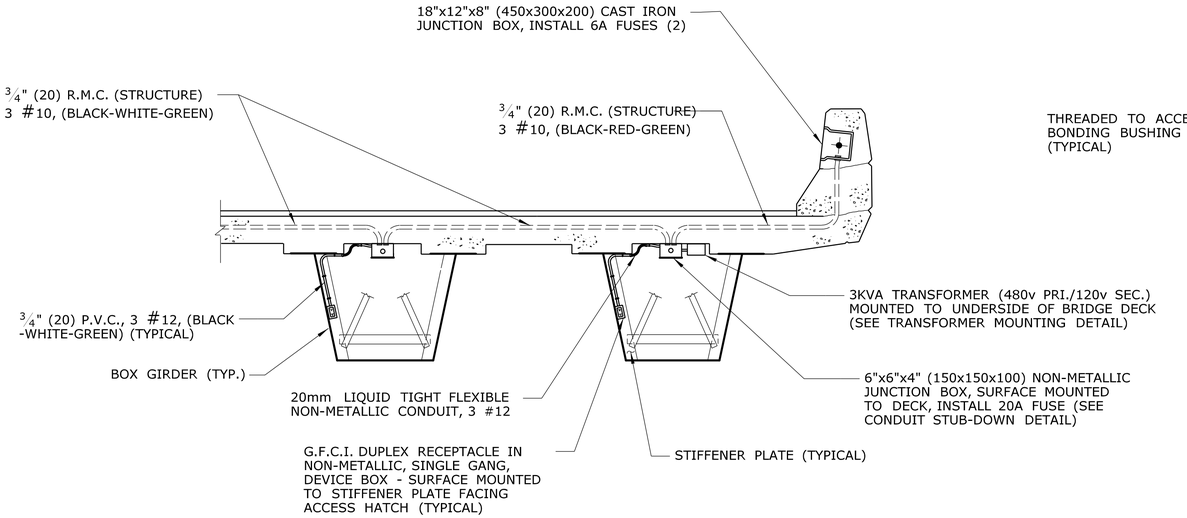
Filename: CTDOT_ILLUMINATION_GD.dgn Model: 00-GDS_INDEX

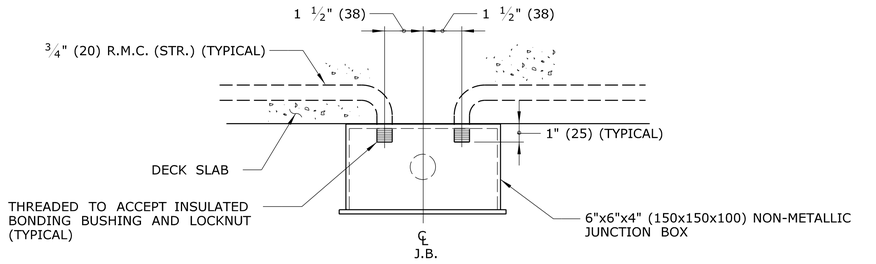
OFFICE OF ENGINEERING

ILLUMINATION
GUIDE SHEET INDEX

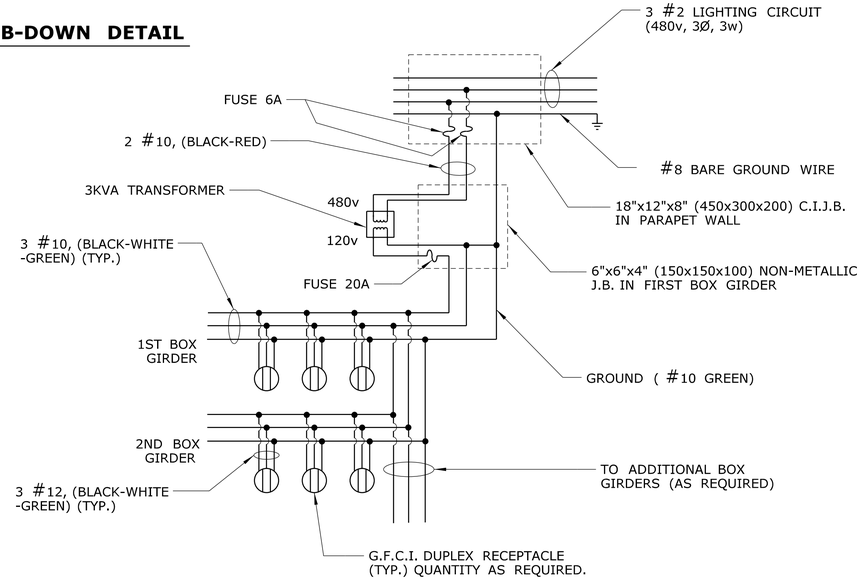
GUIDE SHEET NO.:
ILL-GD_INDEX



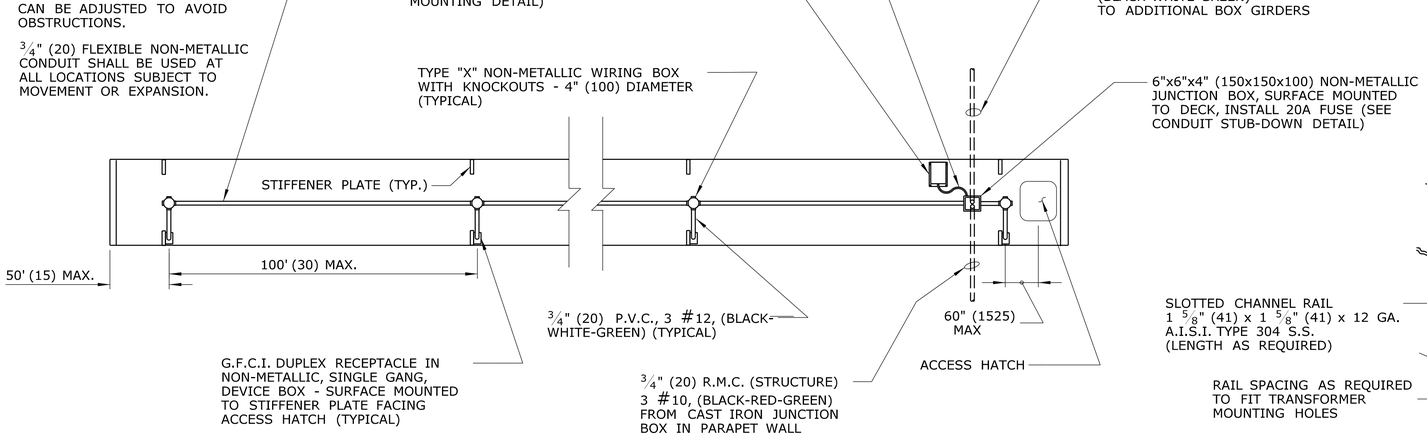
TYPICAL BRIDGE SECTION



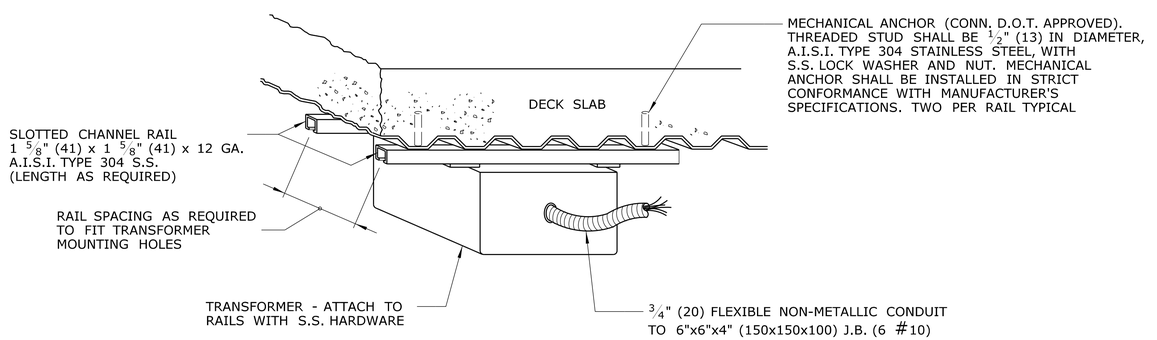
CONDUIT STUB-DOWN DETAIL



BRIDGE INSPECTION RECEPTACLE WIRING DIAGRAM



TYPICAL BOX GIRDER (TOP VIEW)



TRANSFORMER MOUNTING DETAIL

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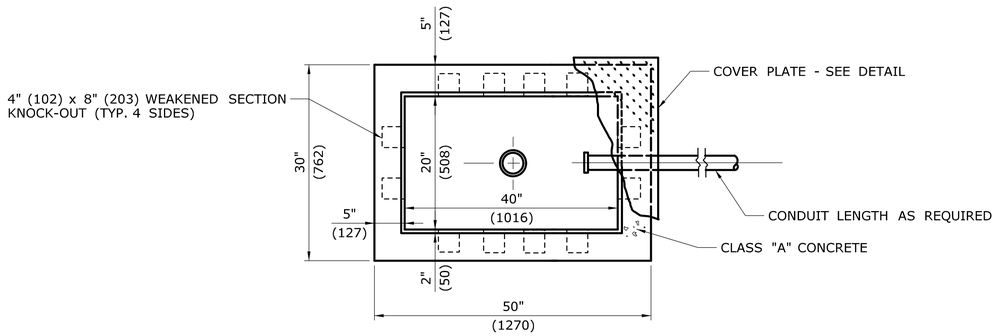
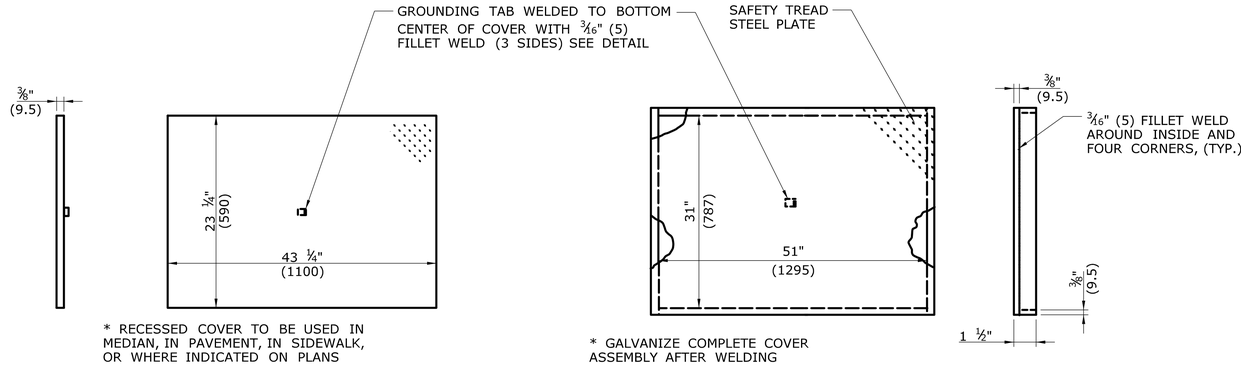
DRAWING TITLE: **BRIDGE INSPECTION RECEPTACLES**

PROJECT NO. -
DRAWING NO. -
SHEET NO. S



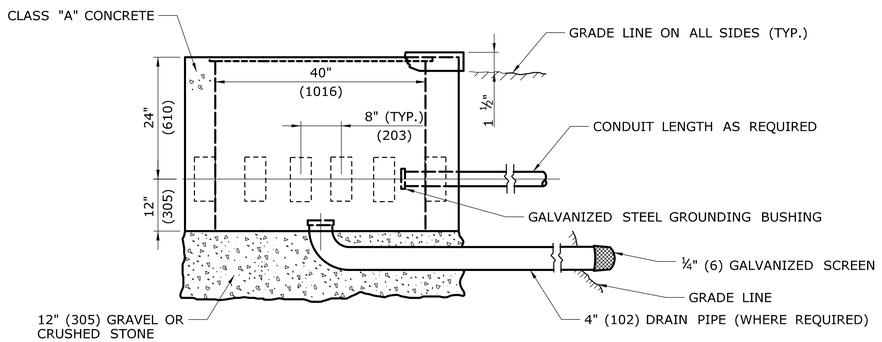


* RECESSED COVER TO BE USED IN MEDIAN, IN PAVEMENT, IN SIDEWALK, OR WHERE INDICATED ON PLANS

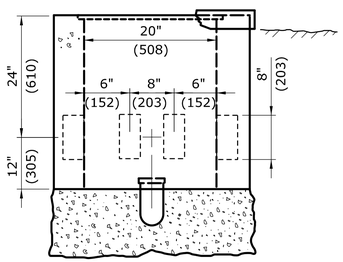
RECESSED TYPE COVER

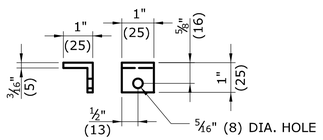
* GALVANIZE COMPLETE COVER ASSEMBLY AFTER WELDING

OVERLAP TYPE COVER FOR CONCRETE HANDHOLE - TYPE W



CONCRETE HANDHOLE - TYPE W





*NOTE:
ATTACH 72" (1830) LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG, 1/4" (M6) x 3/4" (20) SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO NO. 8 BARE GROUND WIRE IN HANDHOLE.

STEEL GROUNDING TAB

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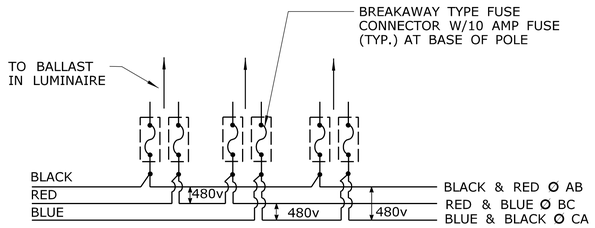
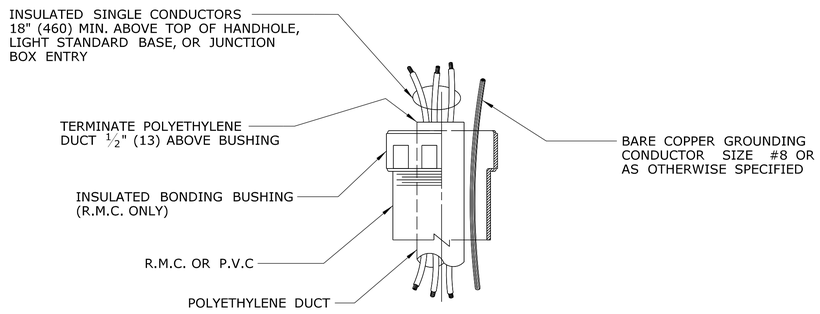
DRAWING TITLE: **CONCRETE HANDHOLE TYPE W**

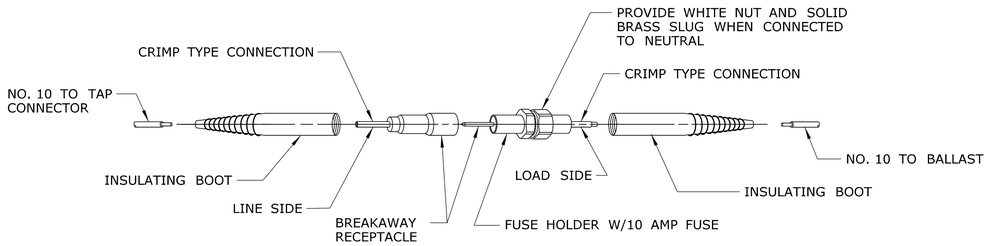
PROJECT NO. -
DRAWING NO. -
SHEET NO. S



3 PHASE 3 WIRE SYSTEM

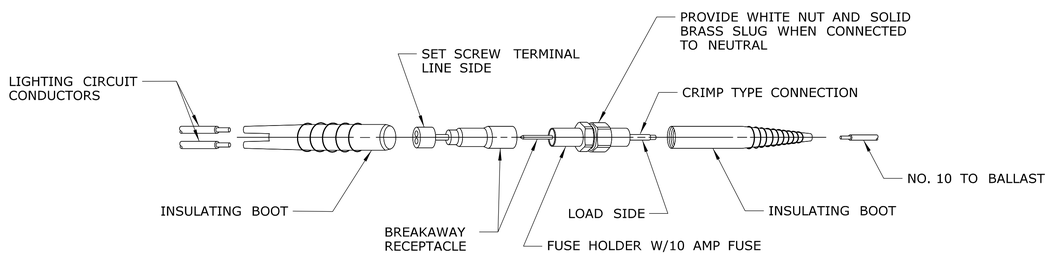


CABLE IN DUCT TERMINATION AT LIGHT STANDARD BASE, HANDHOLE AND CAST IRON JUNCTION BOX

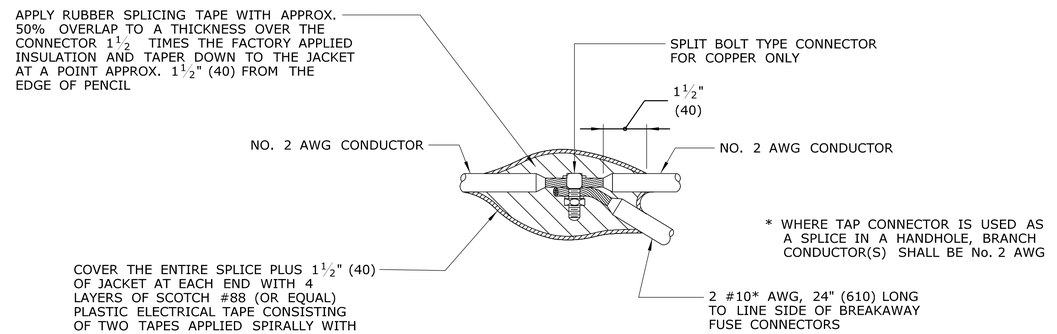


BREAKAWAY TYPE FUSE CONNECTOR

TO BE USED WITH TWIN LUMINAIRE LIGHT STANDARDS (4 REQUIRED PER LIGHT STANDARD) AND UNDERBRIDGE LUMINAIRES



BREAKAWAY TYPE FUSE CONNECTOR



TAP CONNECTOR

TO BE USED IN HANDHOLES AND W/TWIN LUMINAIRE LIGHT STANDARDS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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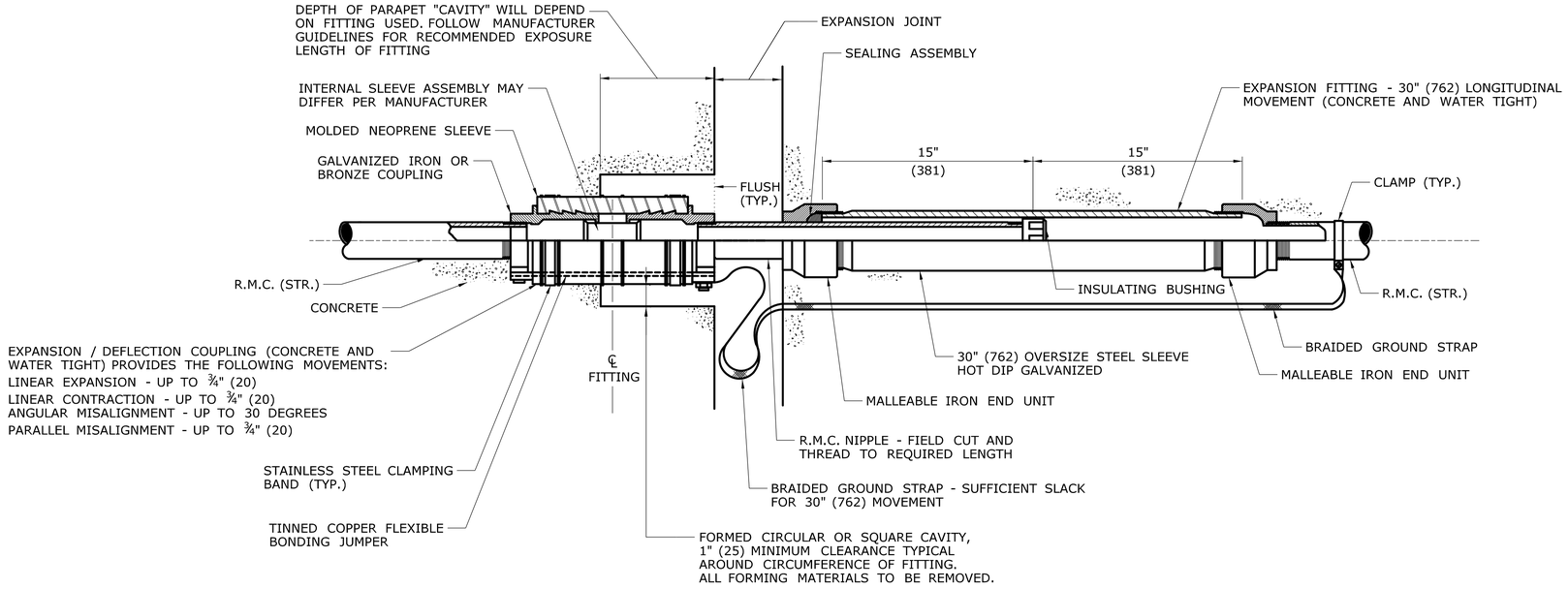
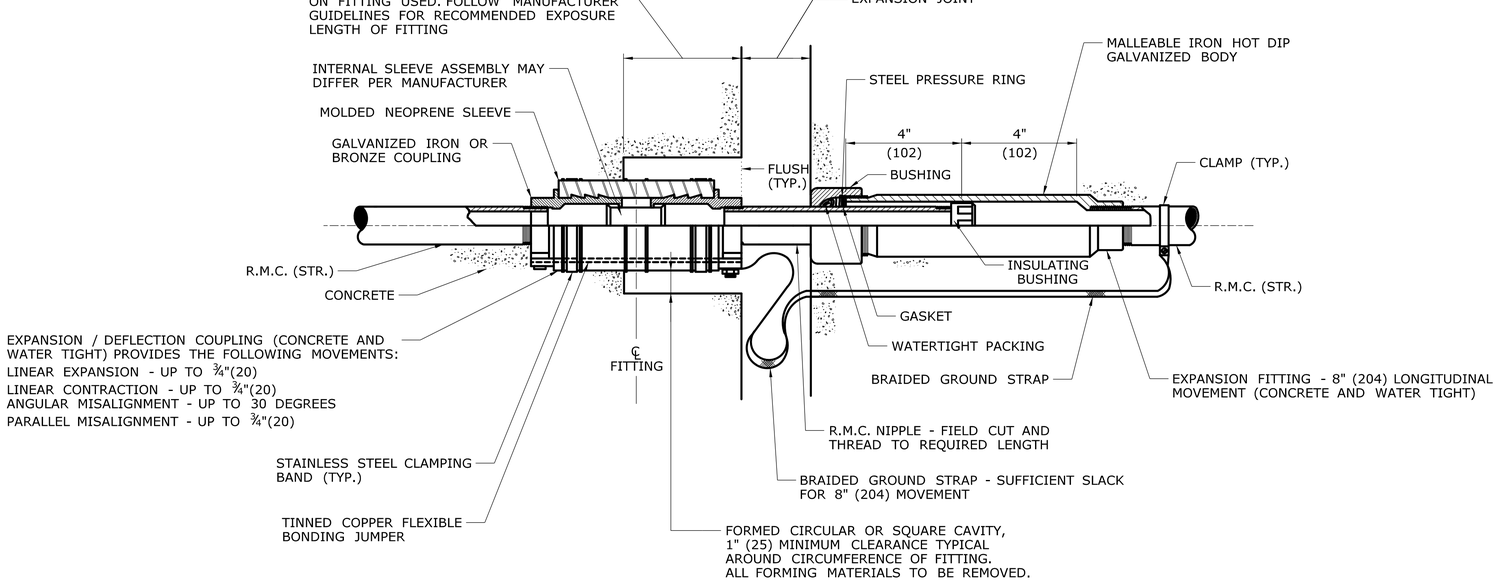
DRAWING TITLE: **CONNECTIONS**

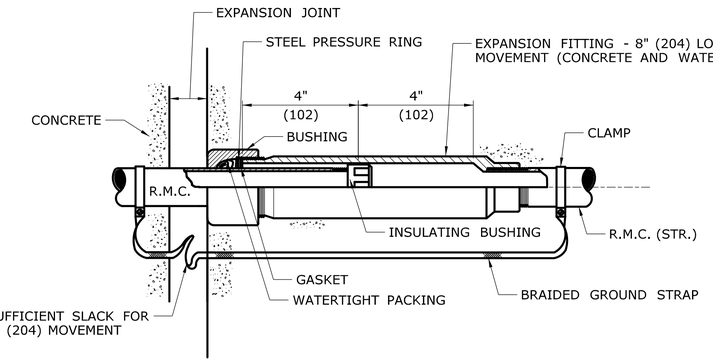
PROJECT NO. -
DRAWING NO. **ILL-**
SHEET NO. **S**



EXPANSION FITTING TYPE 3



EXPANSION FITTING TYPE 2



EXPANSION FITTING TYPE 1

NOTES:

1) SEE BRIDGE PLANS FOR SPECIFIC FITTING TYPE TO BE USED AT EACH BRIDGE EXPANSION JOINT.
2) ORIENTATION OF FITTING TO BE FIELD DETERMINED.

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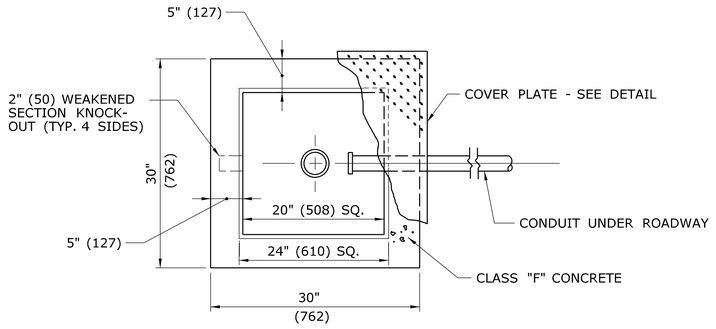
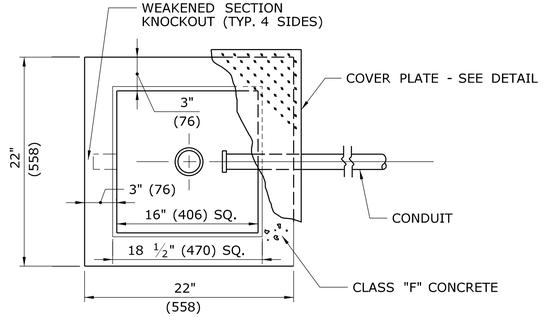
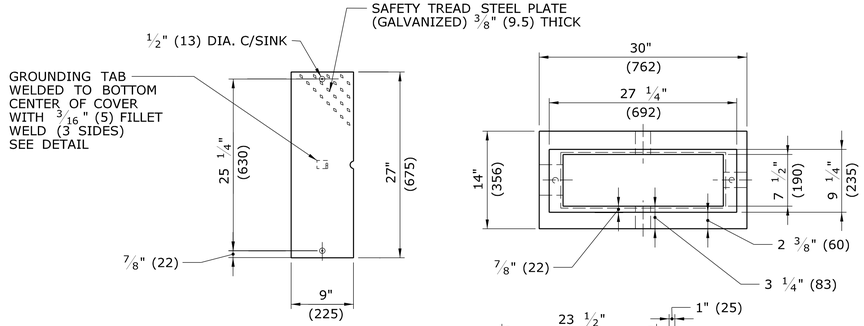
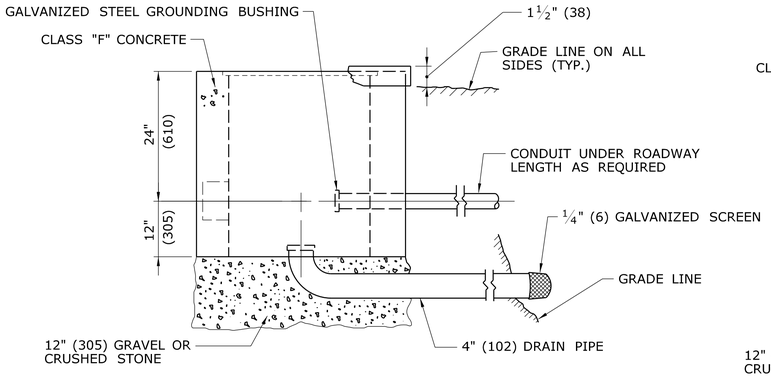
DRAWING TITLE:
CONDUIT EXPANSION FITTINGS

PROJECT NO.: -
DRAWING NO.: --
SHEET NO.: S

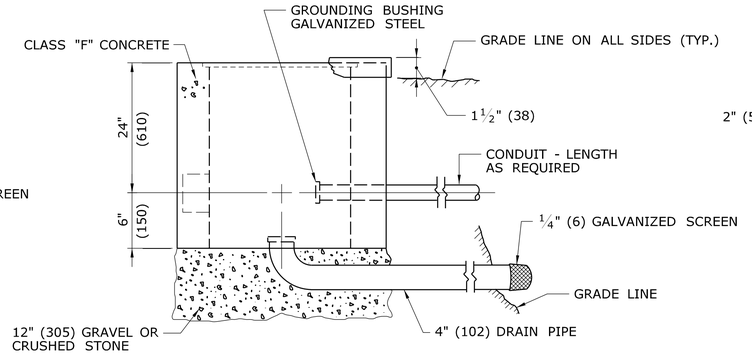




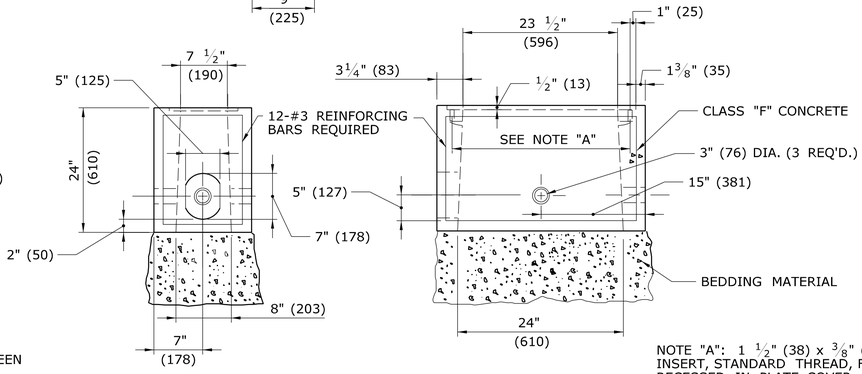




CONCRETE HANDHOLE - TYPE I

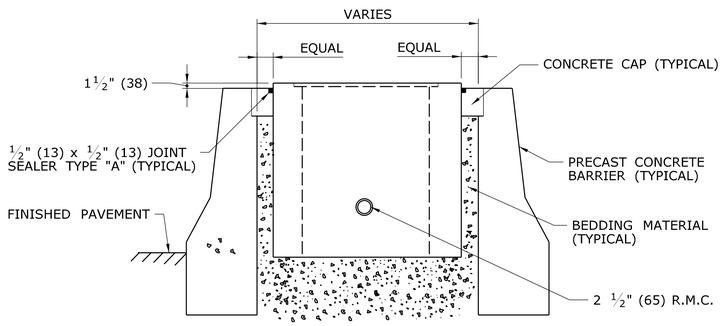


CONCRETE HANDHOLE - TYPE III

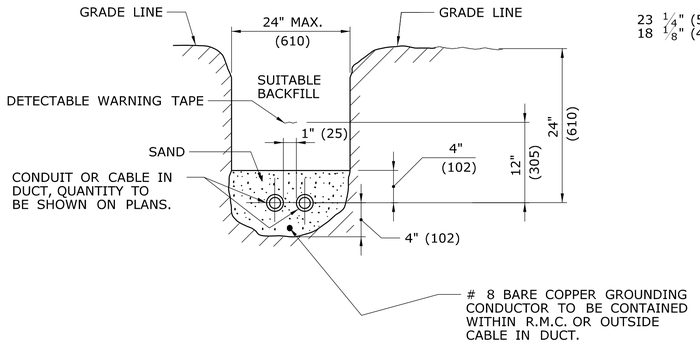


NOTE "A": 1 ½" (38) x ⅜" (9.5) CONCRETE INSERT, STANDARD THREAD, FLAT HEAD BOLT, RECESSED IN PLATE COVER 24 ¼" (616) O.C.

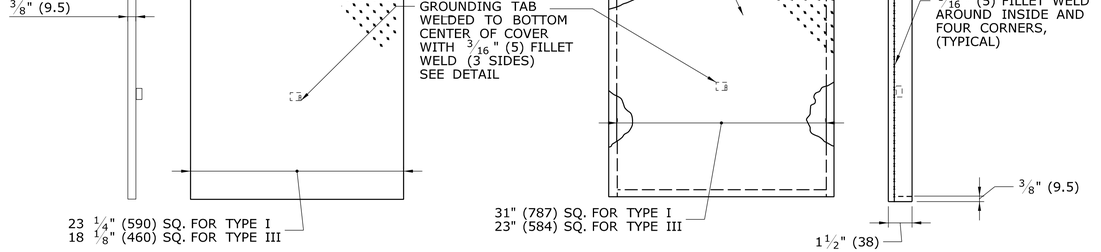
CONCRETE HANDHOLE - TYPE II



CONCRETE HANDHOLE IN MEDIAN



BURIED CONDUIT OR CABLE IN DUCT

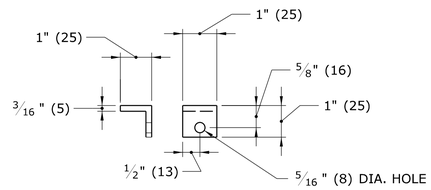


RECESSED TYPE COVER

RECESSED COVER TO BE USED IN MEDIAN, IN PAVEMENT, IN SIDEWALK, OR WHERE INDICATED ON PLANS.

*GALVANIZE COMPLETE COVER ASSEMBLY AFTER WELDING

OVERLAP TYPE COVER



NOTE:
ATTACH 72" (1830) LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG, ¼" (M6) x ¾" (20) LG. SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO NO. 8 BARE GROUND WIRE IN HANDHOLE.

STEEL GROUNDING TAB

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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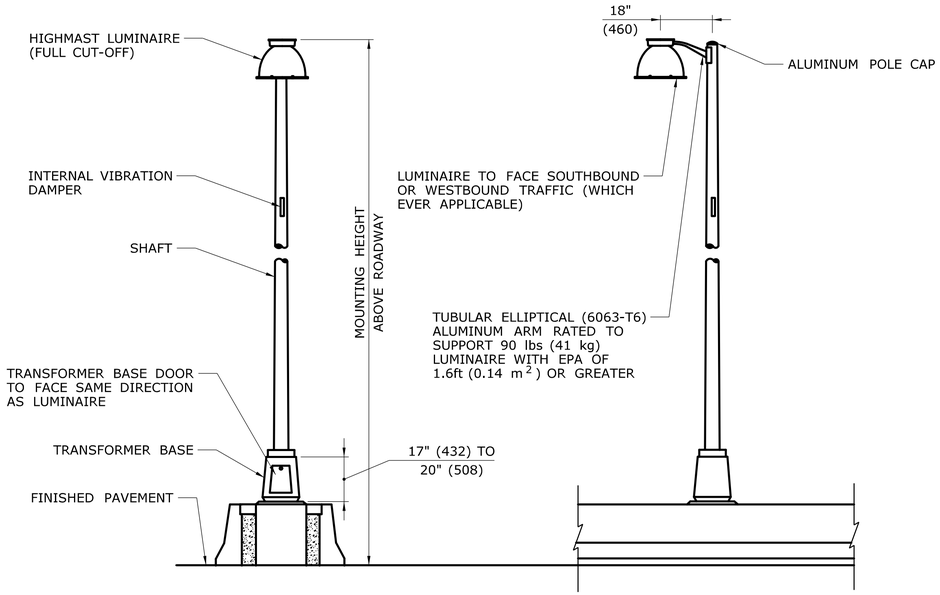
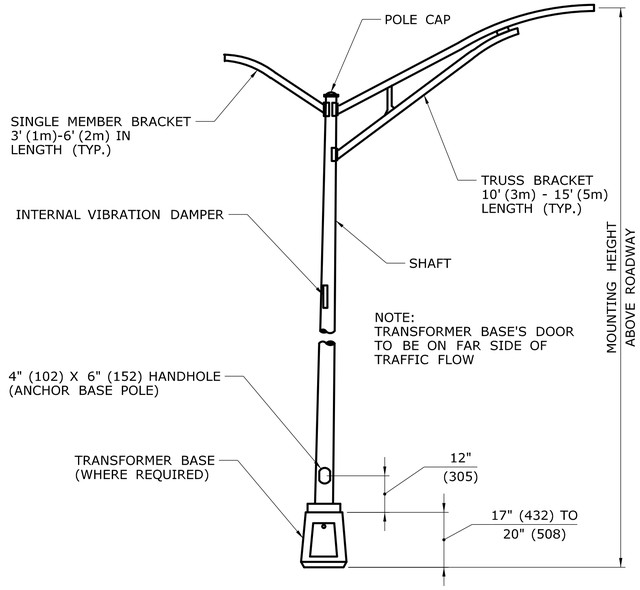
DRAWING TITLE: **HANDHOLES**

PROJECT NO. -
DRAWING NO. -
SHEET NO. S

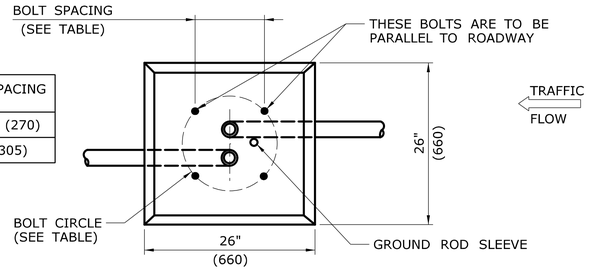


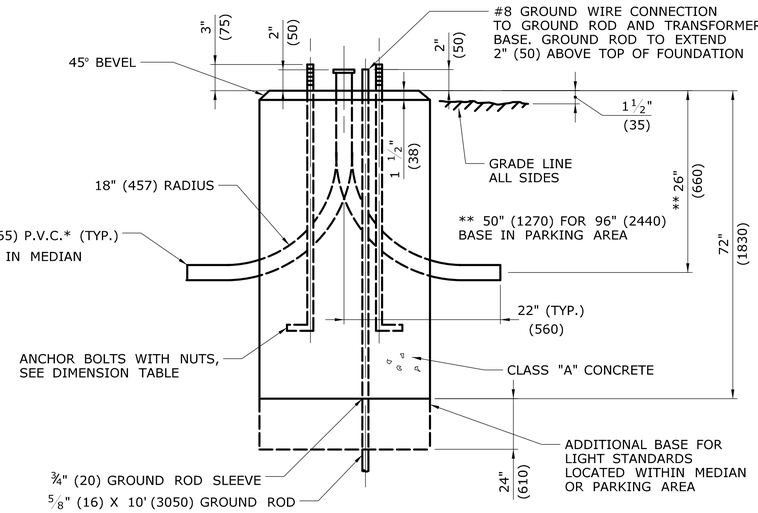
MEDIAN MOUNTED LIGHT STANDARD WITH HIGHMAST LUMINAIRE



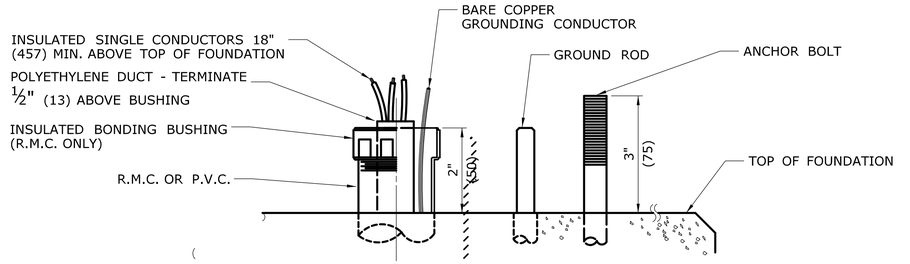
ALUMINUM LIGHT STANDARD

BOLT CIRCLE DIAMETER	BOLT SPACING
15" (380)	10 5/8" (270)
17" (432)	12" (305)



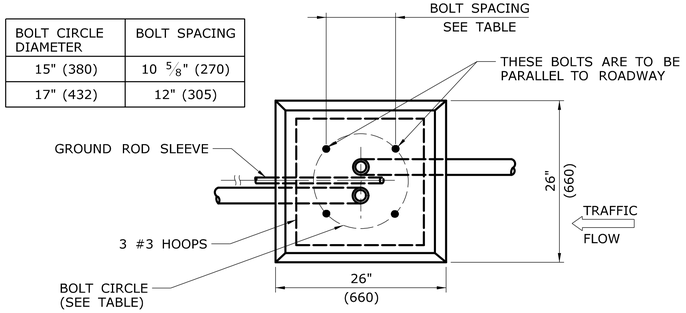


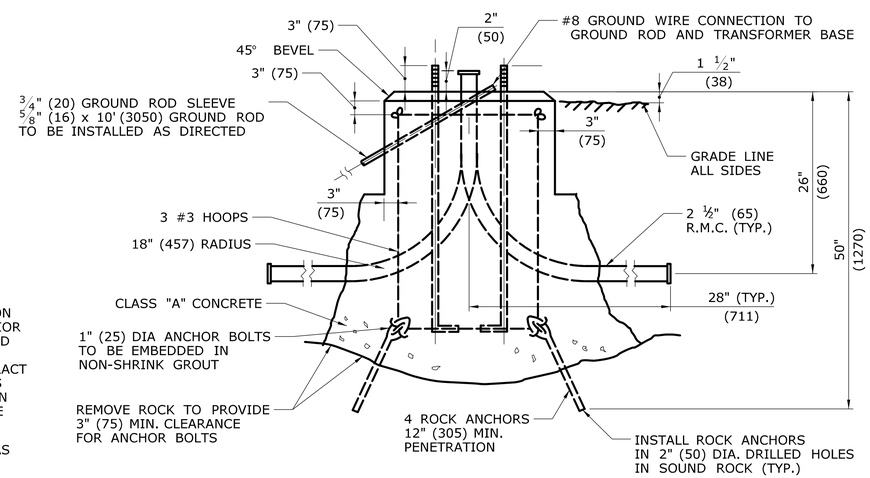
LIGHT STANDARD FOUNDATION (TYPE I)



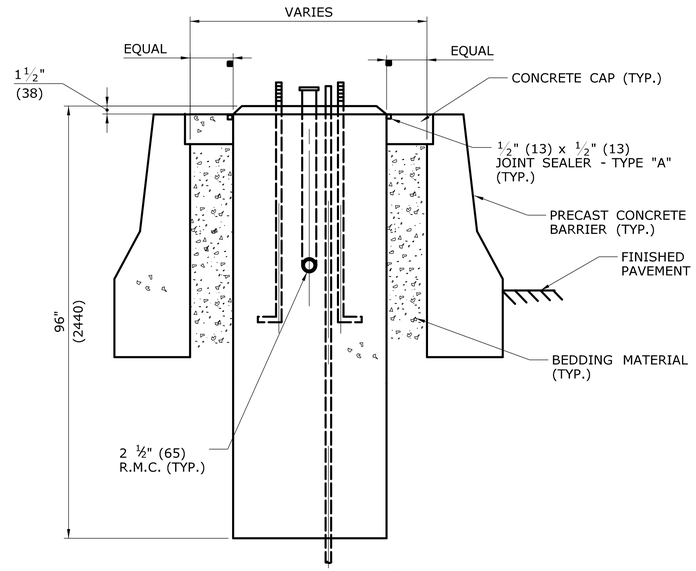
CABLE IN DUCT TERMINATION AT LIGHT STANDARD BASE

BOLT CIRCLE DIAMETER	BOLT SPACING
15" (380)	10 5/8" (270)
17" (432)	12" (305)





LIGHT STANDARD FOUNDATION (TYPE II)



LIGHT STANDARD FOUNDATION (TYPE I) IN MEDIAN

ALUMINUM LIGHT STANDARD - DIMENSION TABLE							
MOUNTING HEIGHT	BRACKET LENGTH	SHAFT DIAMETER		SHAFT WALL THICKNESS	BASE TYPE	ANCHOR BOLT SIZE	BOLT CIRCLE DIAMETER
		BOTTOM	TOP				

LIGHT STANDARD NOTES:

1) ALUMINUM ALLOY SHALL BE 6063, T6 TEMPER.
2) BOLT CIRCLE SHOWN IS FOR ANCHOR BASE BOTTOM OR TRANSFORMER BASE BOTTOM (WHICHEVER IS APPLICABLE).
3) TO BE DESIGNED TO AASHTO "STANDARD SPECIFICATION FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" FOR 90 M.P.H. (145 km/hr) WINDS.
4) WELDING DESIGN AND FABRICATION SHALL CONFORM TO THE LATEST EDITION OF THE ANSI/AWS D1.2, STRUCTURAL WELDING CODE - ALUMINUM.
5) FOR BASE CONNECTION WELDS, FABRICATION INSPECTION AND TESTING SHALL BE PERFORMED AS NECESSARY PRIOR TO ASSEMBLY, DURING ASSEMBLY, DURING WELDING, AND AFTER WELDING, TO ENSURE THAT MATERIALS AND WORKMANSHIP MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. FABRICATION INSPECTION AND TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR. VERIFICATION INSPECTION AND TESTING IS THE PREROGATIVE OF THE ENGINEER (CONNDOT).
6) NON-DESTRUCTIVE TESTING FOR ALUMINUM SHALL BE AS FOLLOWS: A RANDOM 25% OF ALL BASE CONNECTION WELDS SHALL BE INSPECTED IN ACCORDANCE WITH ASTM E-165 STANDARD PRACTICE FOR LIQUID PENETRANT INSPECTION METHOD.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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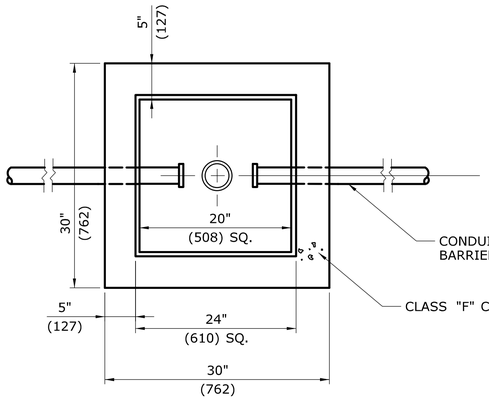
APPROVED BY: DATE:

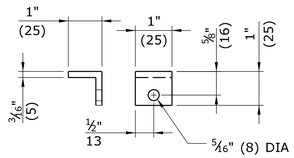
PROJECT TITLE: -

TOWN: -

DRAWING TITLE: LIGHT STANDARDS

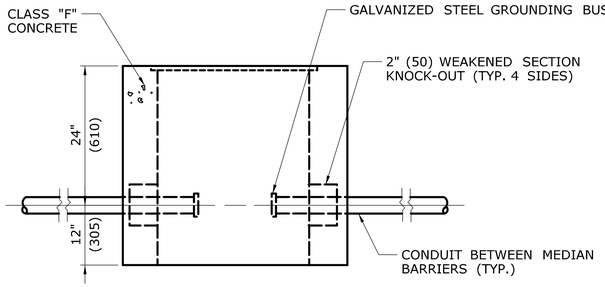
PROJECT NO. -
DRAWING NO. ILL-
SHEET NO. S



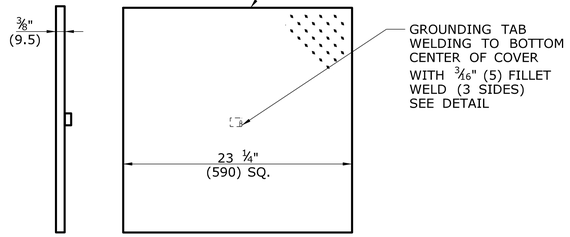


NOTE:
ATTACH 72" (1830) LENGTH OF NO. 8 GROUND WIRE TO GROUNDING TAB WITH ONE HOLE LUG, 1/4" (M6) x 3/4" (20) LG. SST HEX HEAD BOLT, AND SST FLAT WASHER. ATTACH FREE END OF GROUND WIRE TO NO. 8 BARE GROUND WIRE IN HANDHOLE.

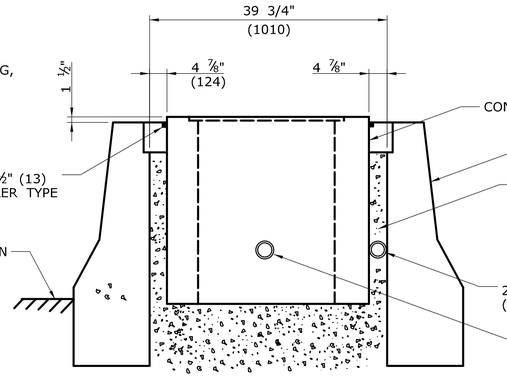
STEEL GROUNDING TAB



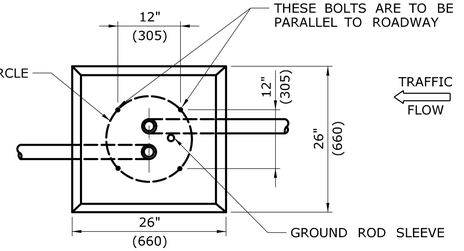
CONCRETE HANDHOLE -TYPE I

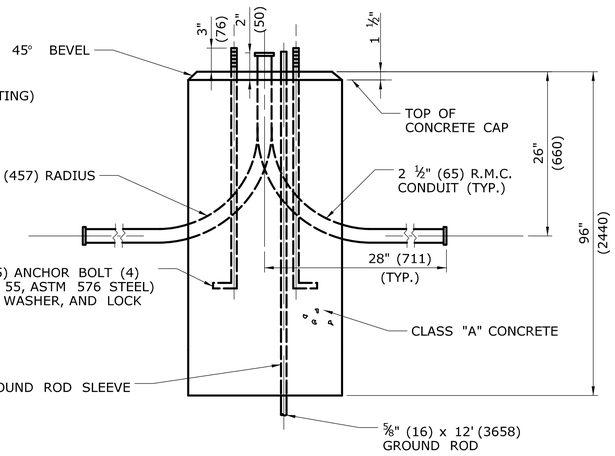


RECESSED TYPE COVER

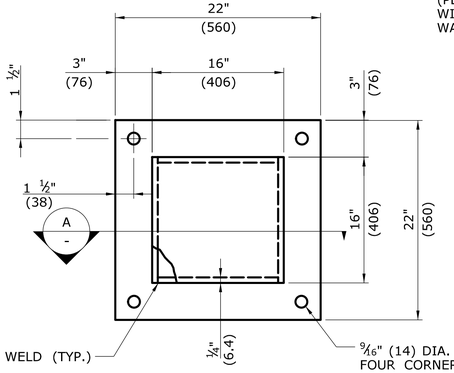


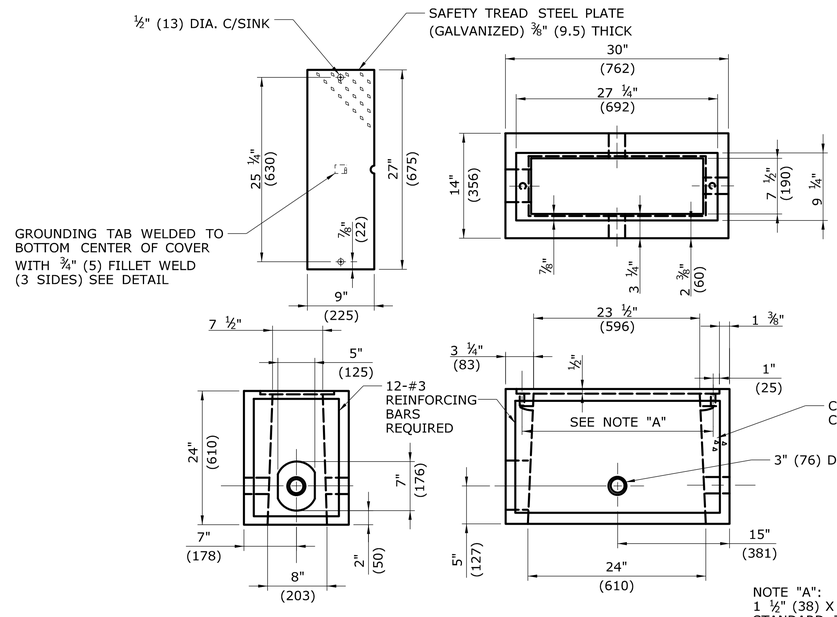
CONCRETE HANDHOLE IN MEDIAN





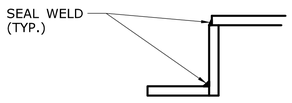
LIGHT STANDARD FOUNDATION (TYPE I)



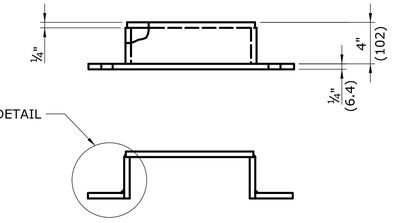


*NOTE:
1) STEEL SHALL CONFORM TO ASTM A36 AND SHALL BE GALVANIZED AFTER FABRICATION IN CONFORMANCE WITH ASTM A123

2) WELDING SHALL BE IN CONFORMANCE WITH THE MOST CURRENT AWS REQUIREMENTS



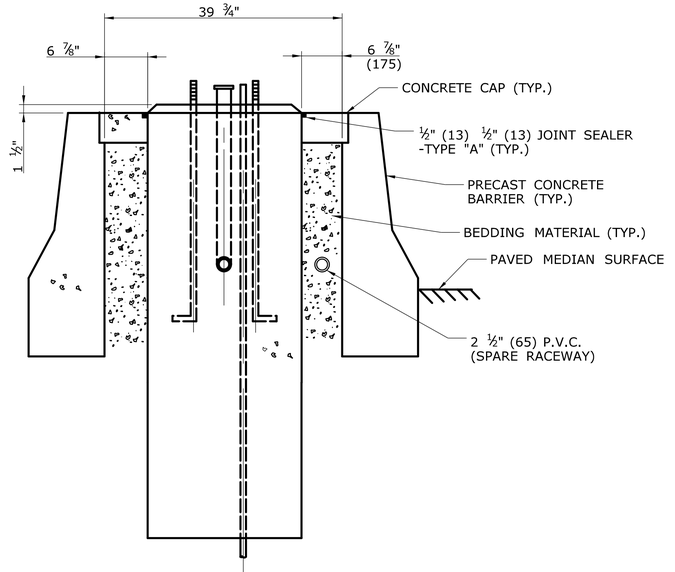
WELD DETAIL



SECTION A -

LIGHT STANDARD ANCHORAGE COVER*

NOTE "A":
1 1/2" (38) X 3/8" (9.5) CONCRETE INSERT, STANDARD THREAD, FLAT HEAD BOLT, RECESSED IN PLATE COVER 24 1/4" (616) O.C.



LIGHT STANDARD FOUNDATION (TYPE I) IN MEDIAN

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/6/2009

DESIGNER/DRAFTER: MSB
CHECKED BY: JA
NO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_ILLUMINATION_GD.dgn

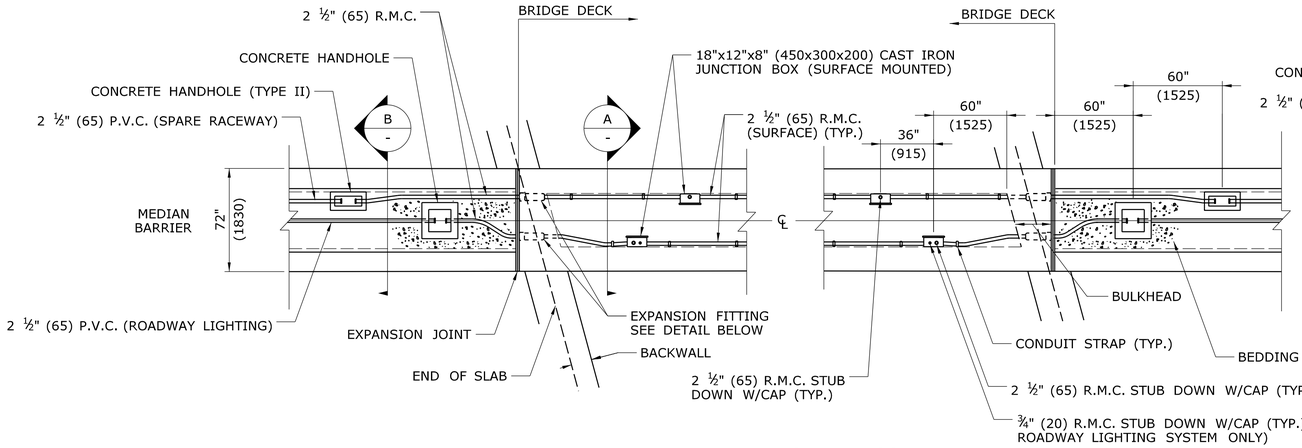
SIGNATURE/BLOCK: OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE: -

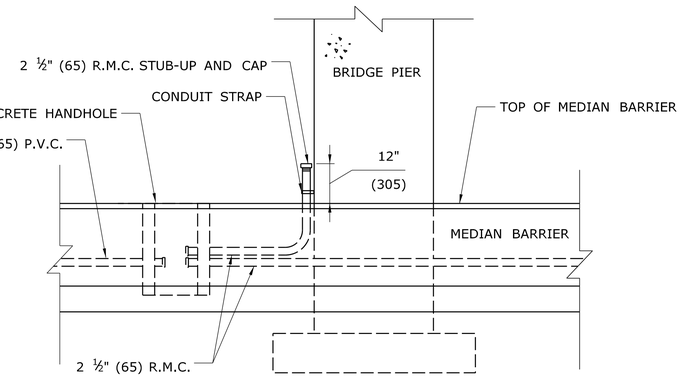
TOWN: -

DRAWING TITLE: MEDIAN ELECTRICAL DETAILS 1

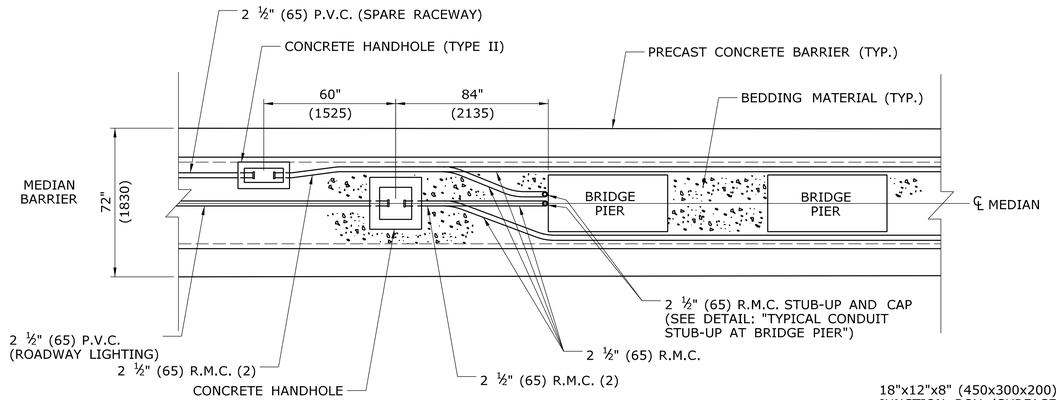
PROJECT NO. -
DRAWING NO. -
SHEET NO. S



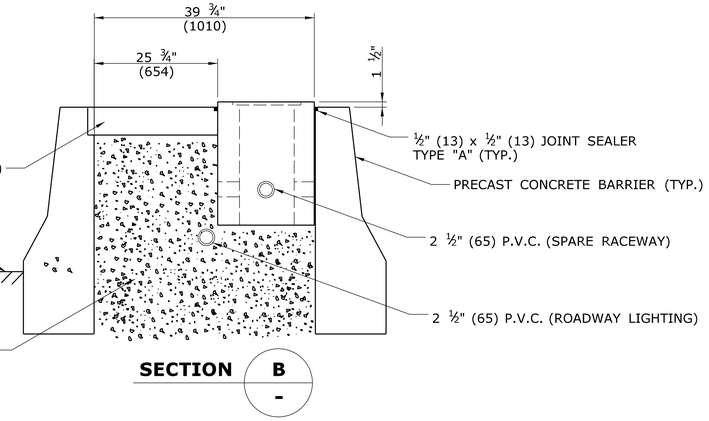
MEDIAN BARRIER AT OVERPASS
TYPICAL ELECTRICAL LAYOUT



TYPICAL CONDUIT STUB-UP AT BRIDGE PIER

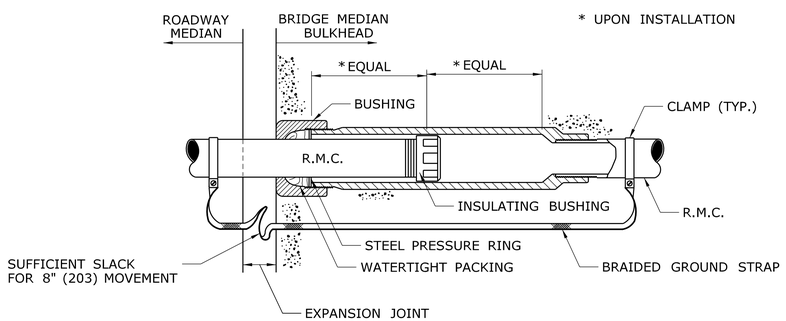


MEDIAN BARRIER AT UNDERPASS - ELECTRICAL LAYOUT
(TYPICAL BOTH ENDS OF PIER STRUCTURE)

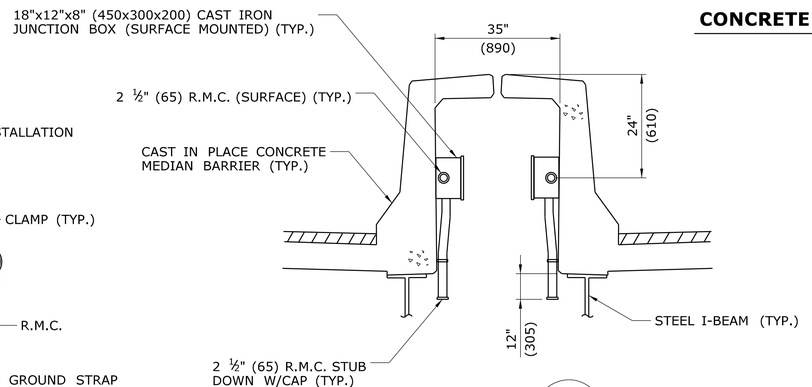


SECTION B
-

CONCRETE HANDHOLE (TYPE II) IN MEDIAN



EXPANSION FITTING TO BE USED AT ALL EXPANSION JOINTS



SECTION A
-

NOTES:

1) R.M.C. TERMINATING IN A CONCRETE HANDHOLE SHALL BE THREADED AND SHALL BE CAPPED WITH AN INSULATED BONDING BUSHING WITH GROUND LUG AND TINNED INSERT.
2) R.M.C. TERMINATING IN A C.I.J.B. SHALL BE THREADED AND SECURED TO THE C.I.J.B. WITH LOCKNUTS. CONDUIT SHALL BE CAPPED INSIDE OF THE C.I.J.B. WITH INSULATED BONDING BUSHING WITH GROUND LUG AND TINNED INSERT.
3) CONDUIT STUB-OUTS SHALL BE THREADED AND CAPPED WITH A MALEABLE IRON CAP.
4) P.V.C. TERMINATING IN A CONCRETE HANDHOLE SHALL BE CAPPED WITH A REMOVABLE P.V.C. CAP.
5) ALL LIGHT STANDARD FOUNDATIONS AND CONCRETE HANDHOLES SHALL BE SURROUNDED BY A ½" (13) x ½" (13) JOINT OF TYPE "A" JOINT SEALER.
6) A PULL-LINE SHALL BE INSTALLED IN ALL CONDUITS (EXCEPT R.M.C. STUB-UPS AND STUB-DOWNS). PULL-LINES ENTERING LIGHT STANDARD FOUNDATIONS SHALL BE TIED OFF TO THE FOUNDATION ANCHOR BOLTS.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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Plotted Date: 11/6/2009

DESIGNER/DRAFTER: **MSB**
CHECKED BY: **JA**
NO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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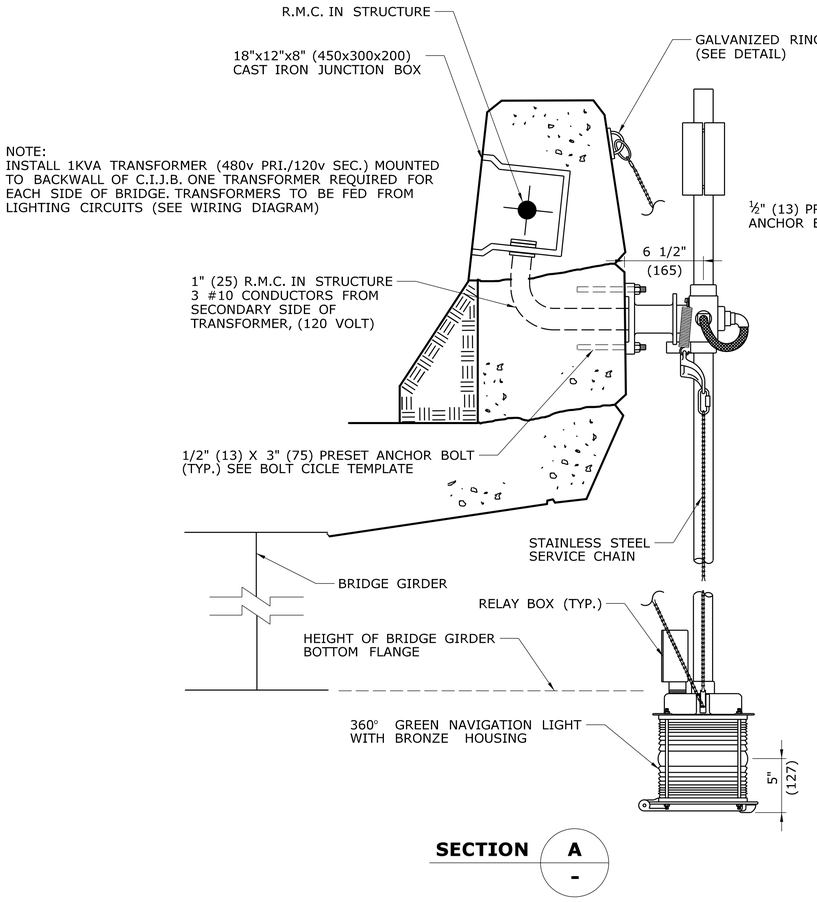
APPROVED BY: DATE:

PROJECT TITLE: -

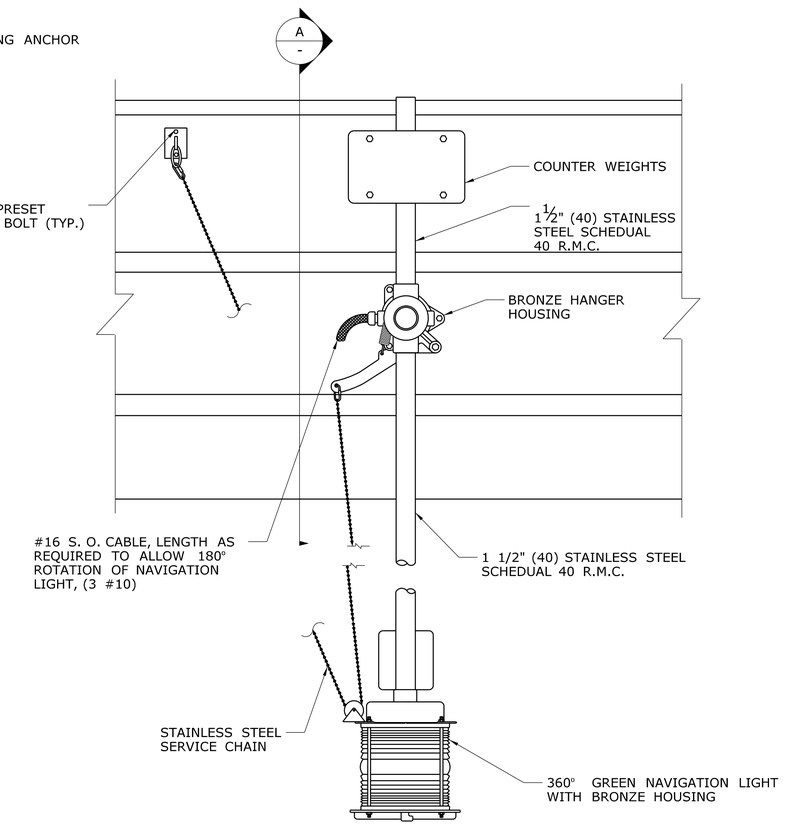
TOWN: -

DRAWING TITLE: **MEDIAN ELECTRICAL DETAILS 2**

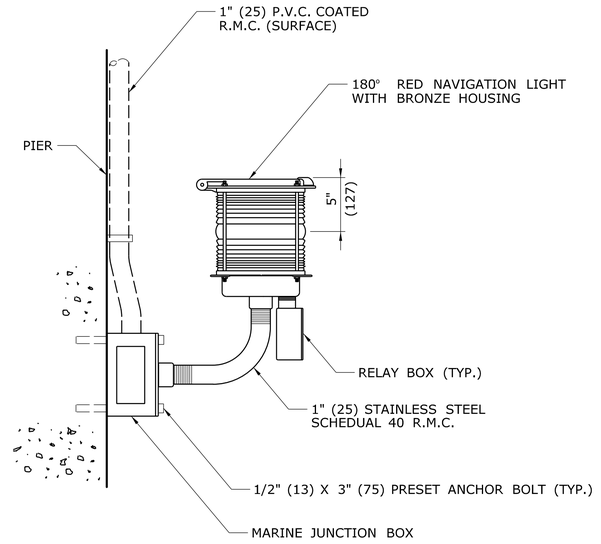
PROJECT NO. -
DRAWING NO. -
SHEET NO. S



SECTION A -

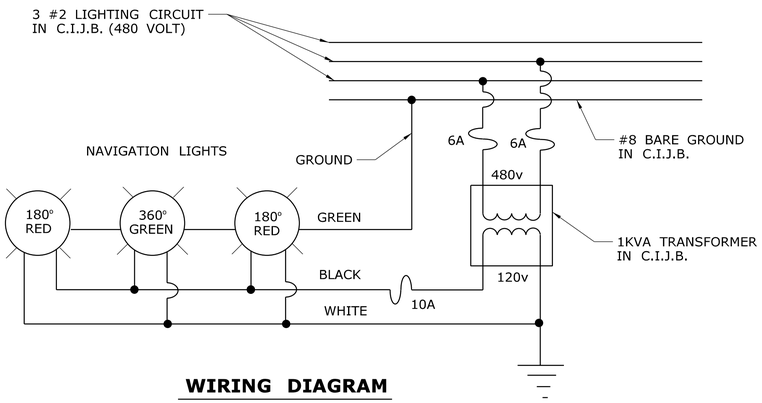


ELEVATION VIEW

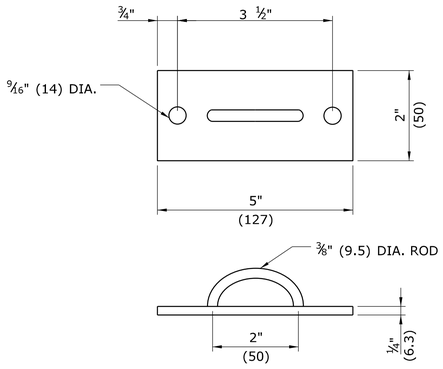


180° RED NAVIGATION LIGHT

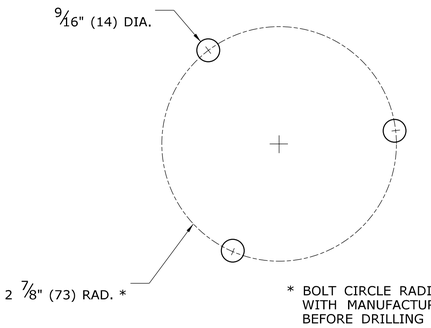
360° GREEN NAVIGATION LIGHT



WIRING DIAGRAM



GALVANIZED RING ANCHOR



BOLT CIRCLE TEMPLATE

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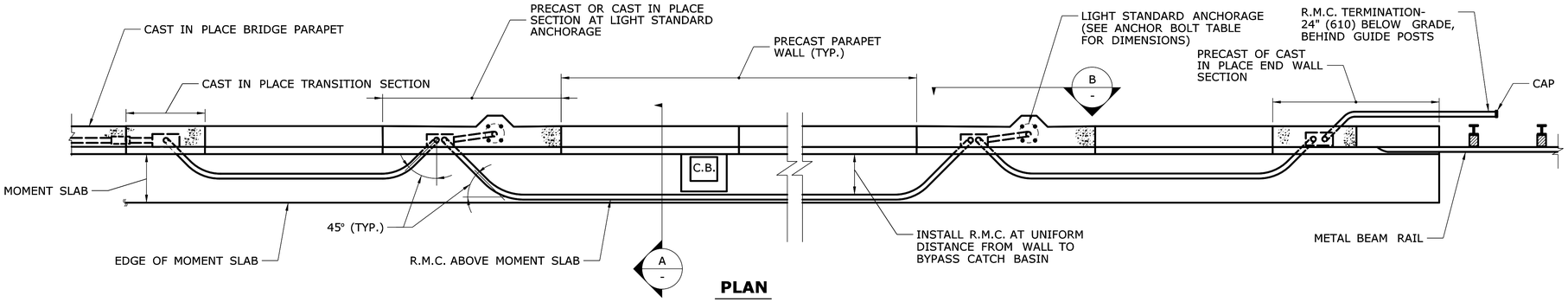
PROJECT TITLE: -

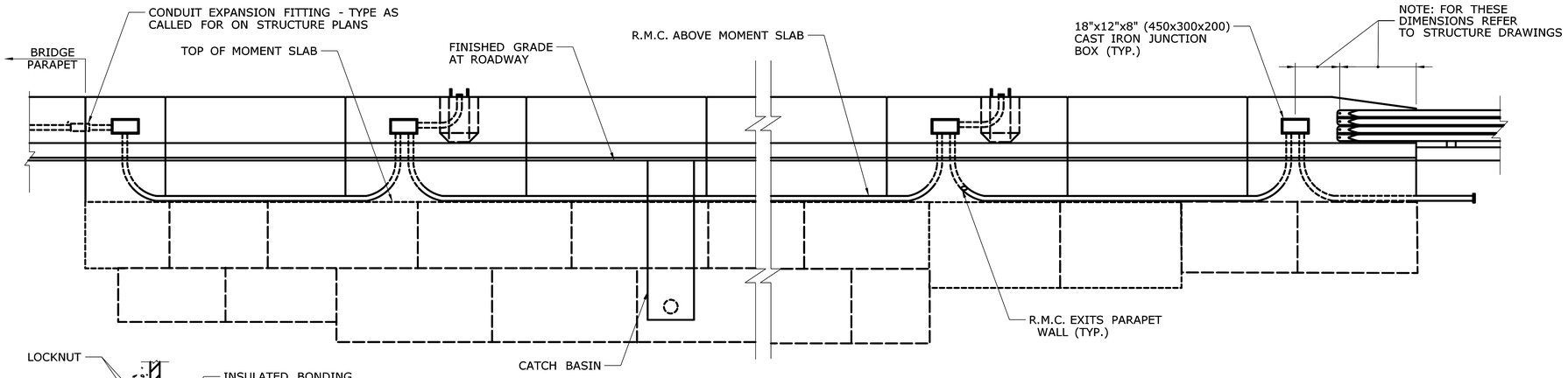
TOWN: -

DRAWING TITLE: **NAVIGATION LIGHTS**

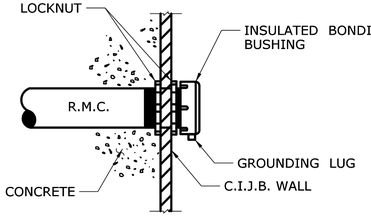
PROJECT NO. -
DRAWING NO. -
SHEET NO. S



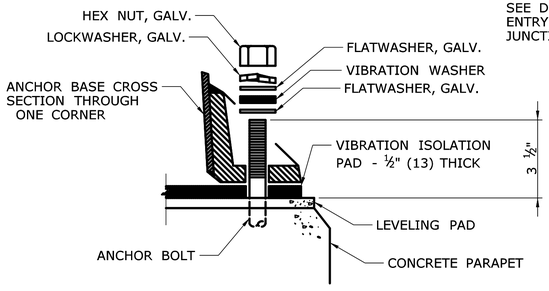
PLAN



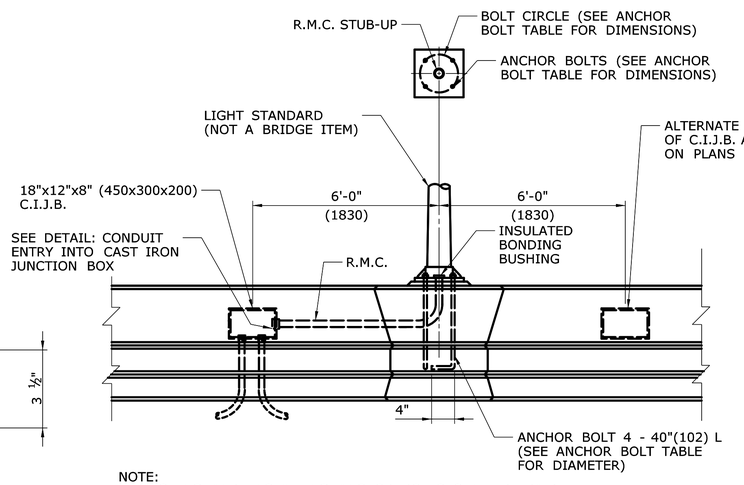
ELEVATION



CONDUIT ENTRY INTO CAST IRON JUNCTION BOX

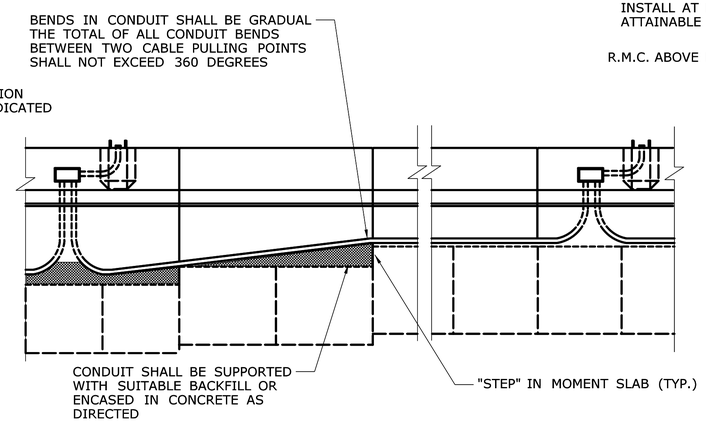


ANCHOR BASE LIGHT STANDARD MOUNTING HARDWARE

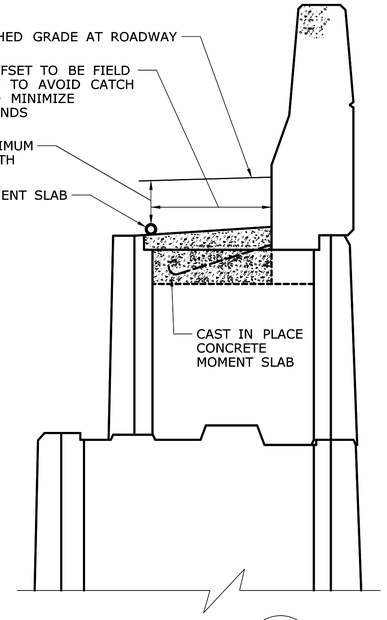


NOTE:
FURNISHING AND INSTALLING ANCHOR BOLTS SHALL BE PAID FOR AT THE UNIT PRICE FOR DEFORMED STEEL BARS

LIGHT STANDARD ON PARAPET WALL - VIEW B -



CONDUIT TREATMENT AT "STEPPED" MOMENT SLAB



SECTION A -

GENERAL NOTES:

1) THE CONTRACTOR SHALL INSTALL THE R.M.C. IN SUCH A WAY AS TO MINIMIZE THE NUMBER OF BENDS IN THE CONDUIT BETWEEN ANY TWO PULLING POINTS. TOTAL BENDS IN ANY GIVEN CONDUIT RUN BETWEEN PULLING POINTS SHALL NOT EXCEED 360 DEGREES.
2) CONDUIT BENDS SHALL HAVE A RADIUS OF NOT LESS THAN 6 TIMES THE TRADE SIZE OF THE CONDUIT.
3) DIAMETER OF CONDUIT SHALL BE AS CALLED FOR ON STRUCTURE PLANS.
4) EXPANSION FITTINGS SHALL BE INSTALLED IN R.M.C. AT ALL EXPANSION JOINTS, AND SHALL CONFORM TO THE DETAILS AS SPECIFIED ON ELECTRICAL SHEET: "EXPANSION FITTINGS"
5) ALL CONDUIT SECTIONS AND ELBOWS SHALL BE JOINED WITH THREADED COUPLINGS. SET SCREW OR COMPRESSION COUPLINGS WILL NOT BE ALLOWED.
6) INSTALLATION OF JUNCTION BOXES, LIGHT STANDARD ANCHORAGES, LOCK NUTS AND BUSHINGS SHALL BE AS SHOWN ON ELECTRICAL DETAIL SHEET.
7) FOR LIGHT STANDARD LEVELING PAD DETAILS, PARAPET DETAILS, AND REINFORCING AT LIGHT STANDARD AND JUNCTION BOX, SEE APPROPRIATE STRUCTURE SHEETS.
8) SEE RETAINING WALL PLANS FOR SPECIFIC CONSTRUCTION DETAILS AND LOCATIONS.
9) ELECTRICAL INSTALLATION SIMILAR FOR ALL PROPRIETARY TYPE WALLS.
10) THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF WORKING DRAWINGS FOR REVIEW, WHICH SHALL SHOW THE PLACEMENT OF CONDUIT, JUNCTION BOXES AND LIGHT STANDARD ANCHORAGES ASSOCIATED WITH THE MANUFACTURED RETAINING WALL.

ANCHOR BOLT TABLE

POLE MTG. HEIGHT	BOLT CIRCLE DIA.	BOLT DIA.
30' (10m) - 35' (11m)	11" (280)	1" (M25)
40' (12m)	15" (380)	1" (M25)
50' (15m)	15" (380)	1 ¼" (M30)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-

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NO SCALE

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Filename: ...\CTDOT_ILLUMINATION_GD.dgn

SIGNATURE/ BLOCK:
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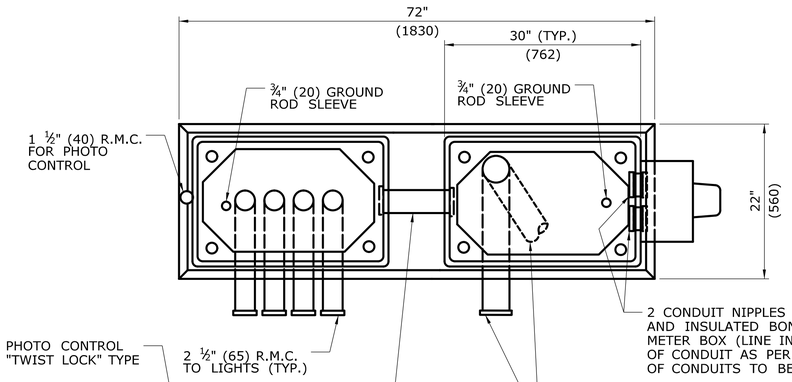
APPROVED BY: DATE:

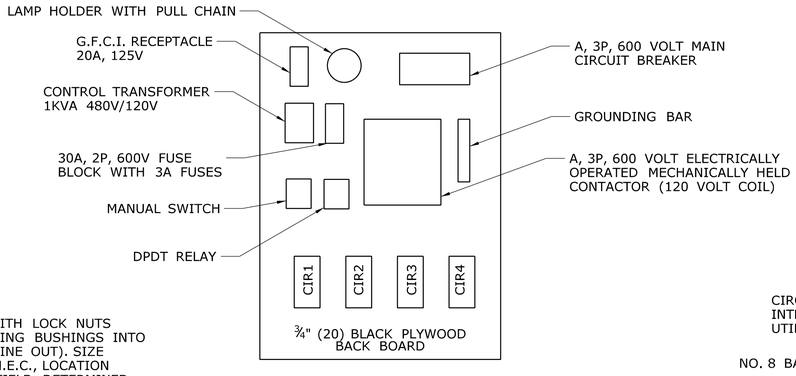
PROJECT TITLE: -

TOWN: -

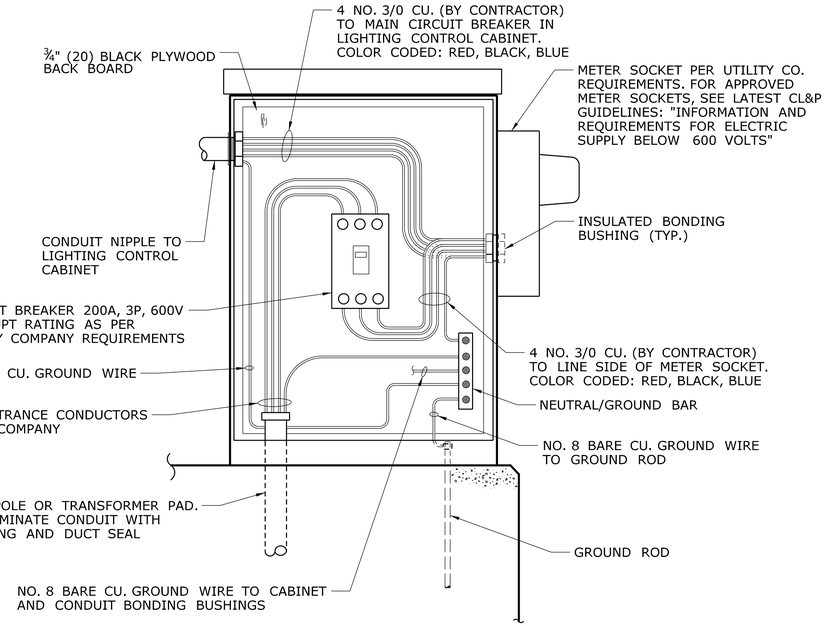
DRAWING TITLE: PRECAST RETAINING WALL ELECT. DETAILS

PROJECT NO. -
DRAWING NO. ILL-
SHEET NO. S

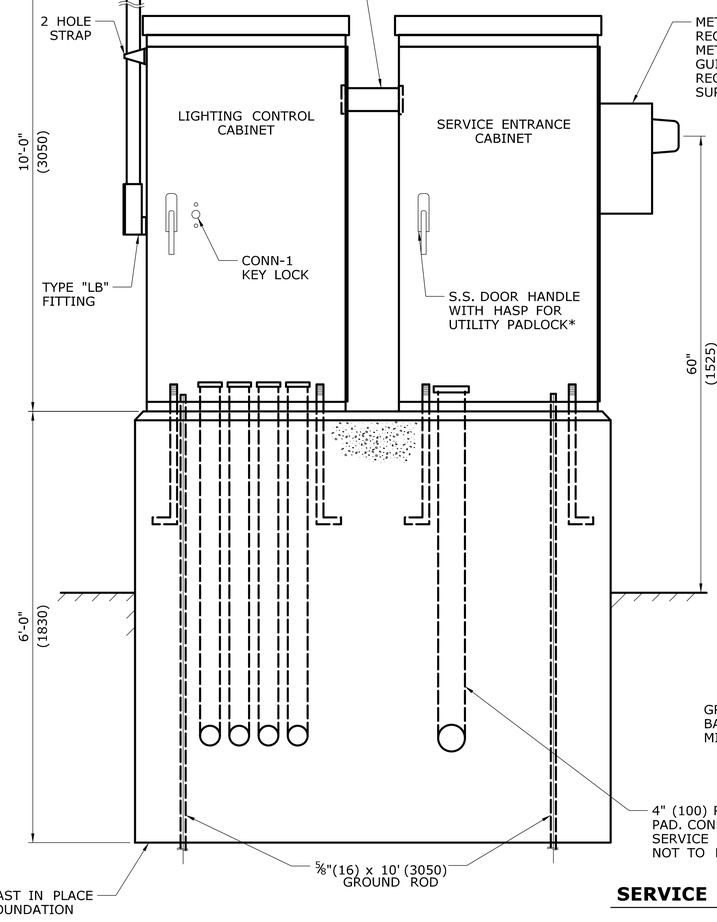


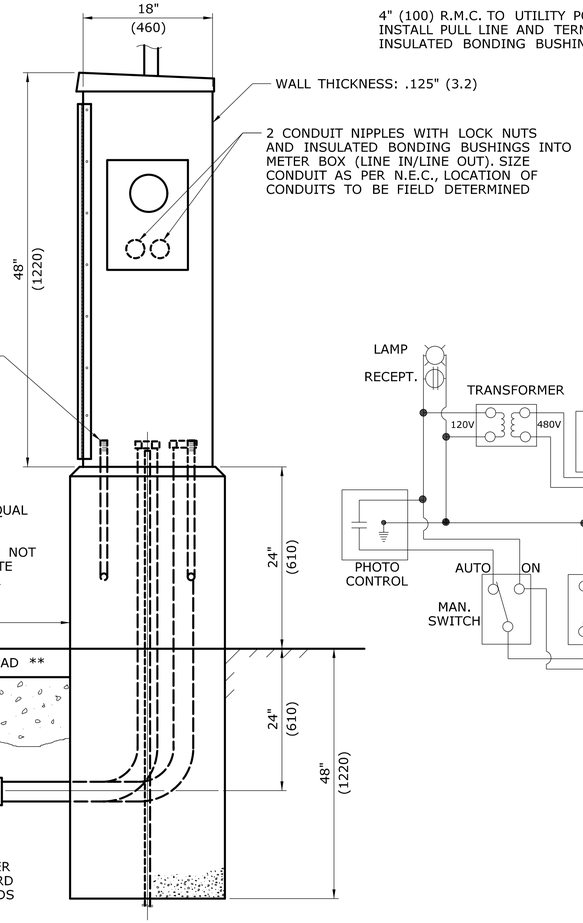


PANEL LAYOUT - LIGHTING CONTROL CABINET

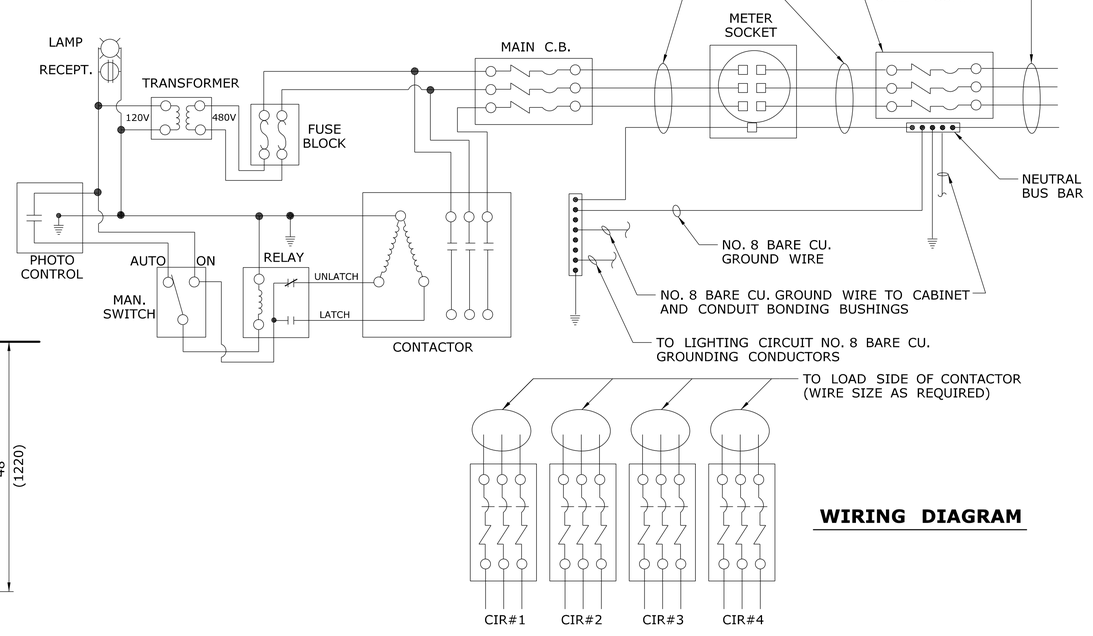


PANEL LAYOUT - SERVICE ENTRANCE CABINET





SERVICE ENTRANCE AND CABINET TYPE I



WIRING DIAGRAM

REV.	DATE	REVISION DESCRIPTION	SHEET NO.

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NONE SCALE

STATE OF CONNECTICUT
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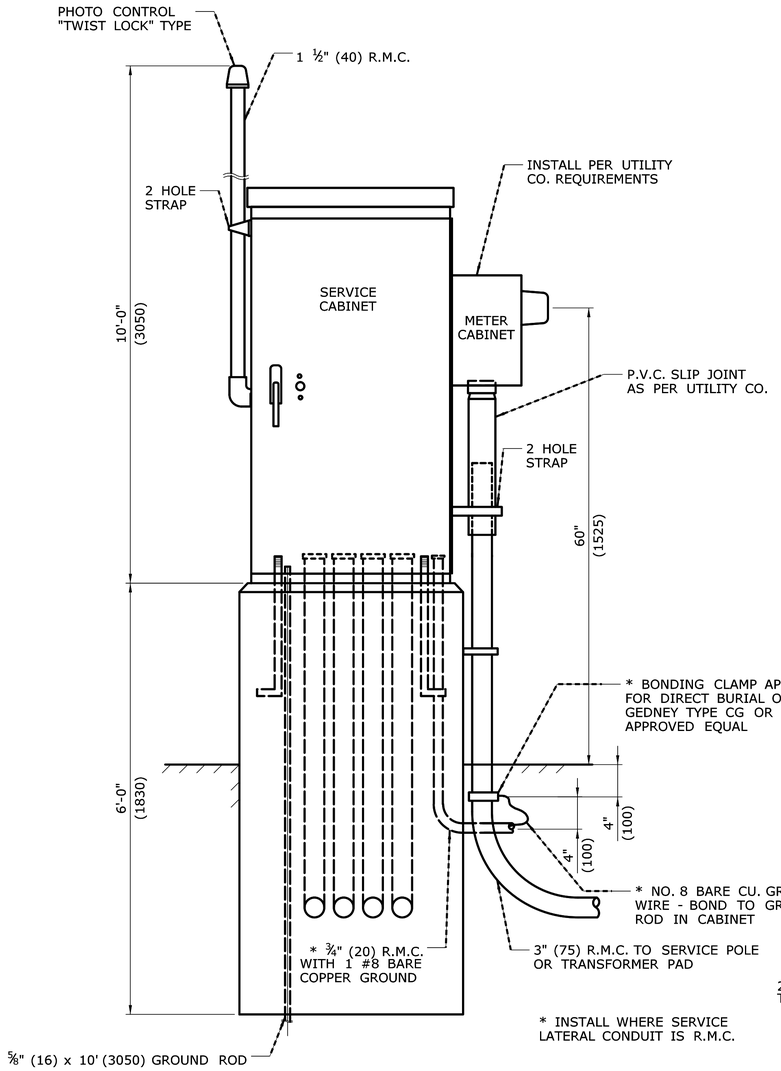
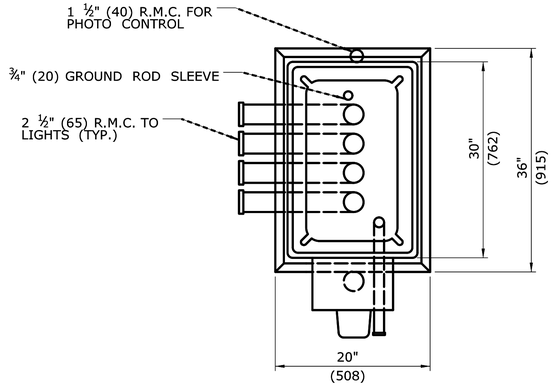
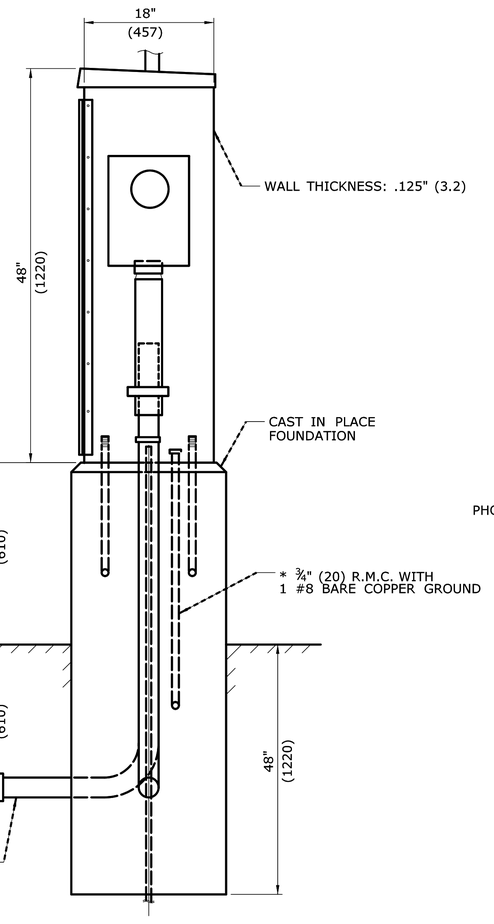
TOWN: - -

PROJECT NO. -
DRAWING NO. —
SHEET NO. S

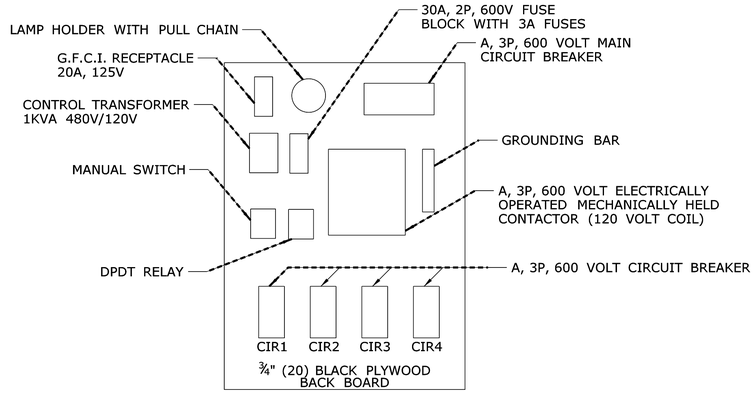
DRAWING TITLE: SERVICE ENTRANCE AND CABINET-- TYPE 1



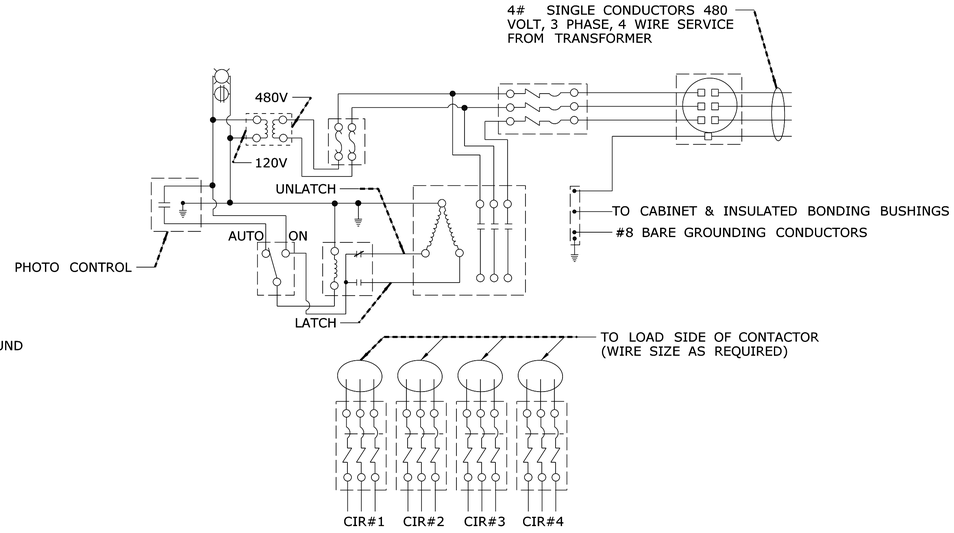




SERVICE ENTRANCE AND CABINET TYPE I



PANEL LAYOUT - SERVICE CABINET



WIRING DIAGRAM

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 11/6/2009

DESIGNER/DRAFTER: **MSB**

CHECKED BY: **JA**

NO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_ILLUMINATION_GD.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE: -

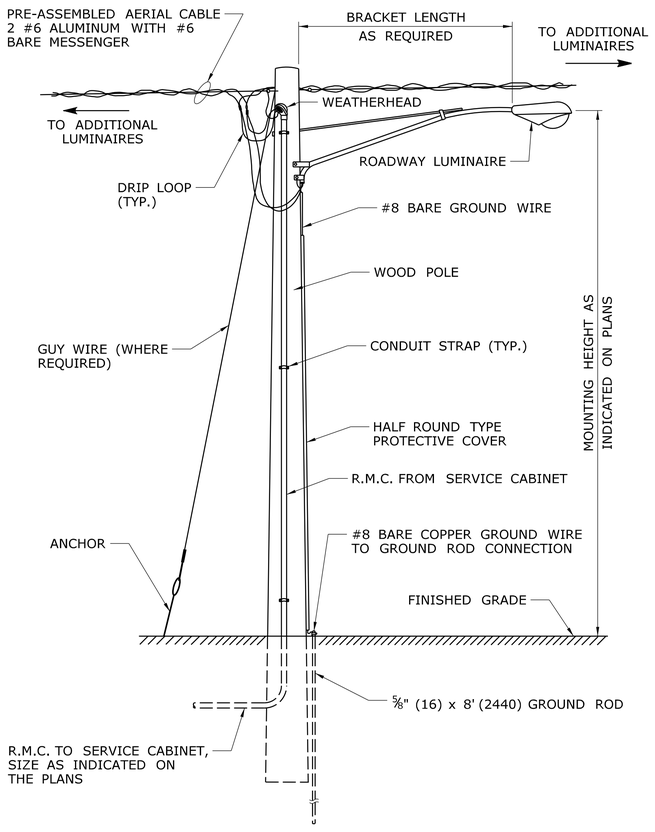
TOWN: -

DRAWING TITLE: **SERVICE ENTRANCE AND CABINET - TYPE 1**

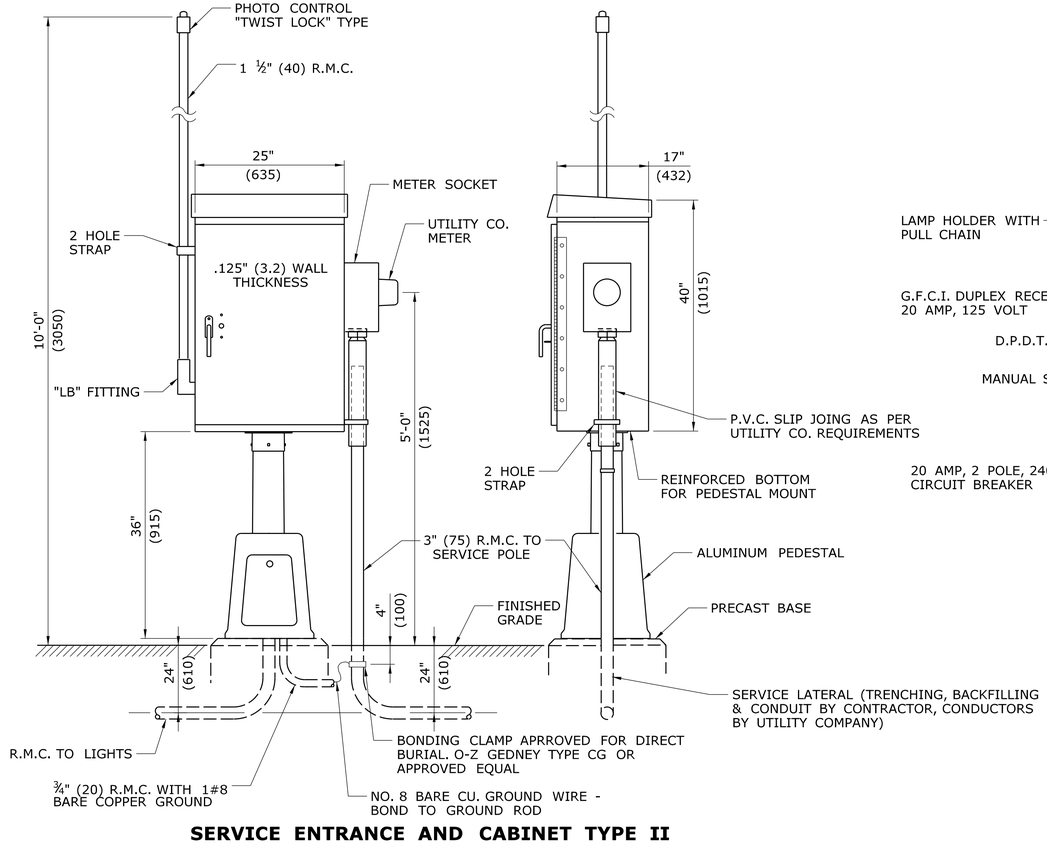
PROJECT NO. -

DRAWING NO. **ILL-**

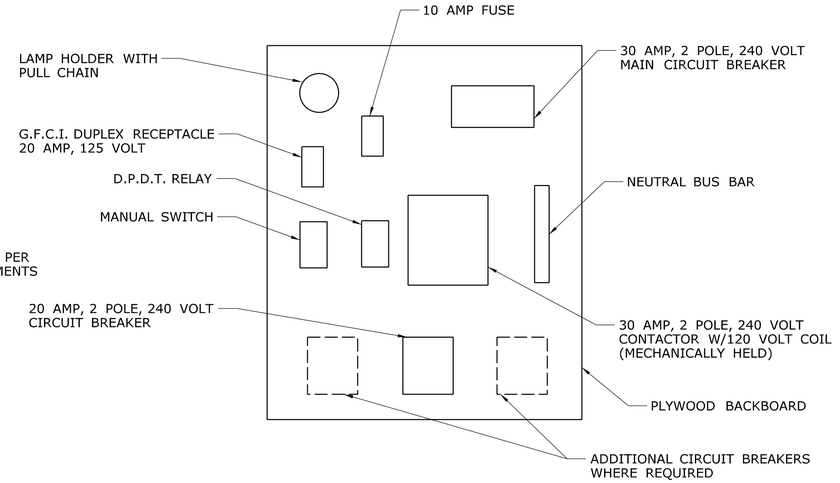
SHEET NO. **S**



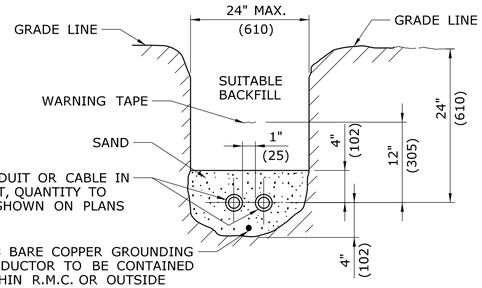
TYPICAL ILLUMINATION UNIT (WOOD POLE)



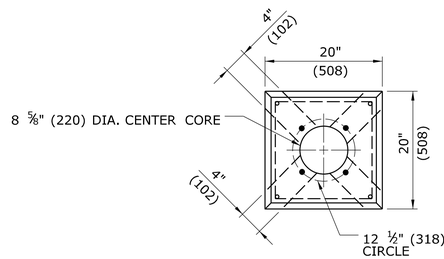
SERVICE ENTRANCE AND CABINET TYPE II

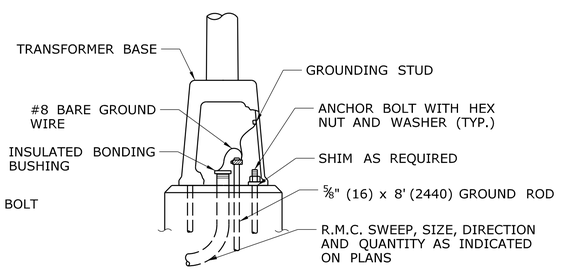


PANEL LAYOUT
SERVICE ENTRANCE AND CABINET TYPE II

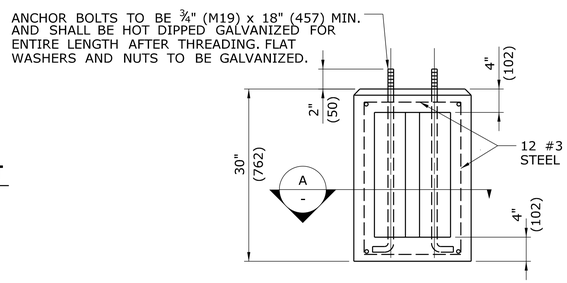


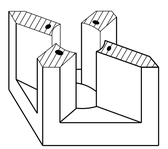
BURIED CONDUIT OR CABLE IN DUCT



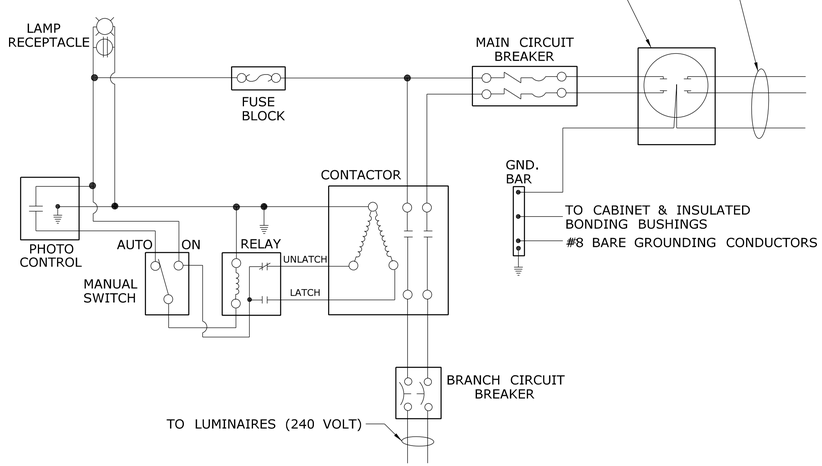


36" (915) ALUMINUM PEDESTAL





PRECAST PEDESTAL BASE - TYPE I



WIRING DIAGRAM

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CHECKED BY: **JA**

NO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

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SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: DATE:

PROJECT TITLE: -

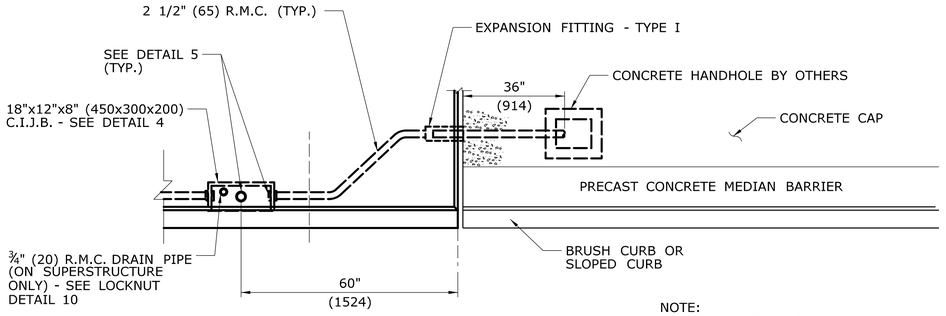
TOWN: -

DRAWING TITLE: **SERVICE ENTRANCE AND CABINET - TYPE 2**

PROJECT NO. -

DRAWING NO. ILL-

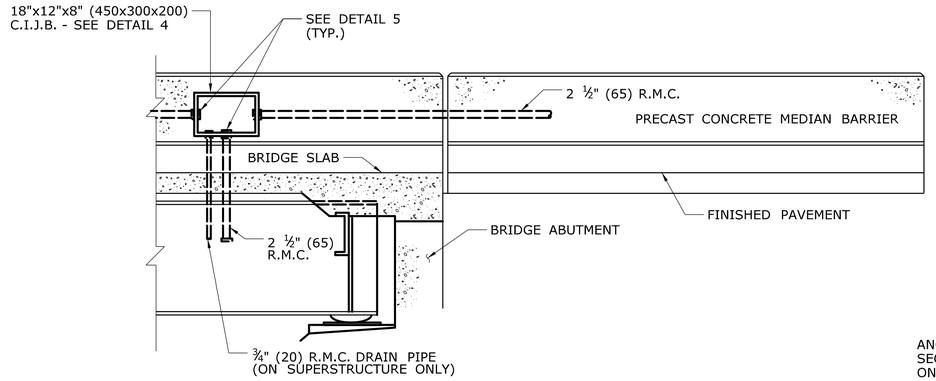
SHEET NO. S



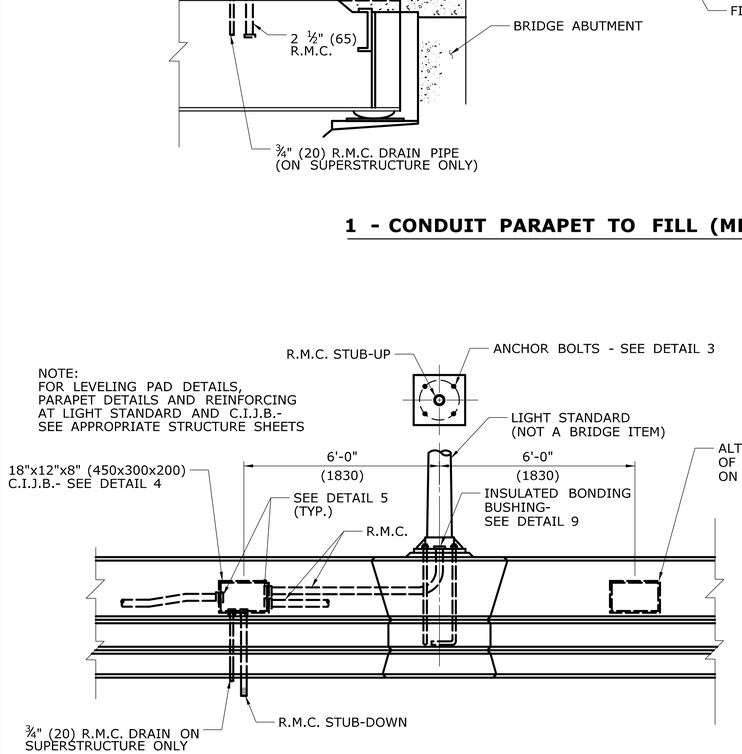
NOTE:
1) UTILIZE 30° BENDS TO FACILITATE CONDUIT LEAVING WINGWALL

2) CONDUIT BENDS SHALL HAVE A RADIUS OF NOT LESS THAN 6 TIMES THE TRADE SIZE OF CONDUIT

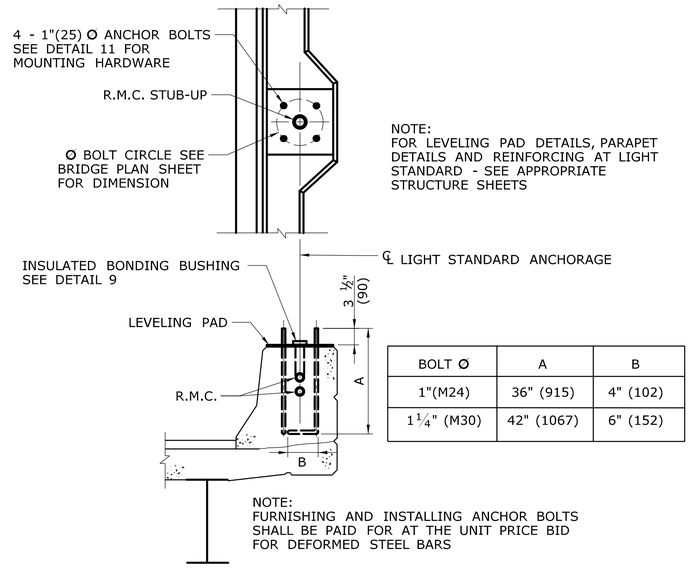
TOP VIEW



1 - CONDUIT PARAPET TO FILL (MEDIAN)

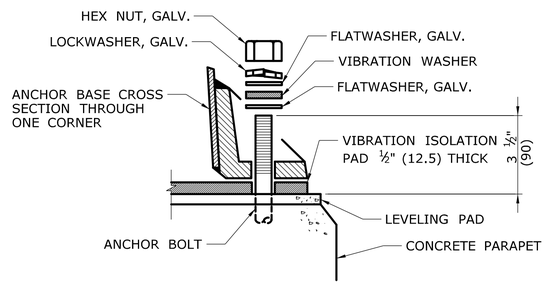


2 - LIGHT STANDARD ON PARAPET WALL

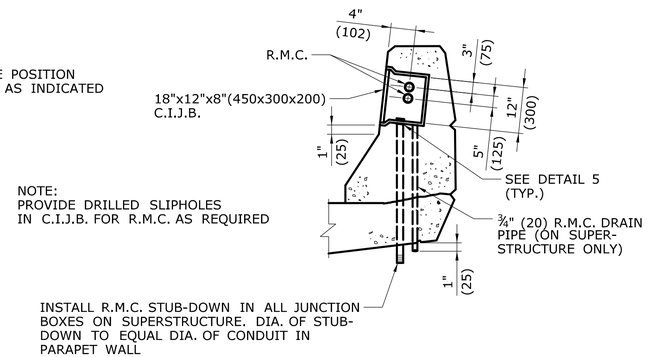


BOLT Ø	A	B
1"(M24)	36" (915)	4" (102)
1¼" (M30)	42" (1067)	6" (152)

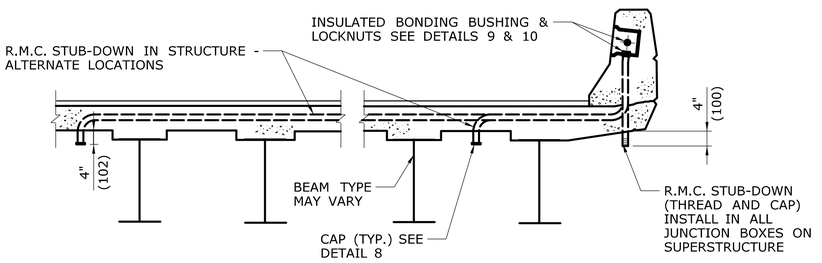
3 - PARAPET TREATMENT AT LIGHT STANDARD



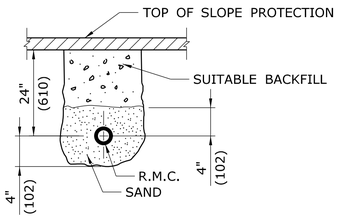
11 - ANCHOR BASE LIGHT STANDARD MOUNTING HARDWARE



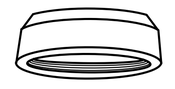
4 - JUNCTION BOX INSTALLATION



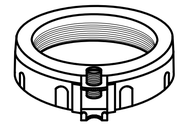
6 - SERVICE TO LUMINAIRE UNDER STRUCTURE



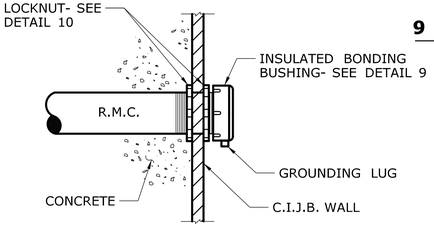
7 - RIGID METAL CONDUIT UNDER SLOPE PROTECTION



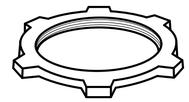
8 - MALLEABLE IRON CAP



9 - INSULATED BONDING BUSHING WITH GROUND LUG



5 - CONDUIT ENTRY INTO CAST IRON JUNCTION BOX



10 - LOCKNUT

NOTES:

1) SEE BRIDGE PLANS FOR SPECIFIC CONSTRUCTION DETAILS AND LOCATIONS.
2) DIAMETER OF RIGID METAL CONDUIT SHALL BE AS CALLED FOR ON BRIDGE PLANS.
3) R.M.C. STUB-UPS TO LIGHT STANDARDS, STUB-OUTS TO FILL, AND STUB-DOWNS TO THE UNDERBRIDGE LUMINAIRES, SHALL BE OF THE SAME DIAMETER AS THE R.M.C. CAST IN THE PARAPET WALL.
4) INSTALL ONE R.M.C. STUB-DOWN IN ALL JUNCTION BOXES ON SUPERSTRUCTURE. ADDITIONAL STUB-DOWNS SHALL BE INSTALLED WHERE INDICATED ON THE PLANS.
5) USE APPLICABLE DETAILS

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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CHECKED BY: **JA**
NO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_ILLUMINATION_GD.dgn

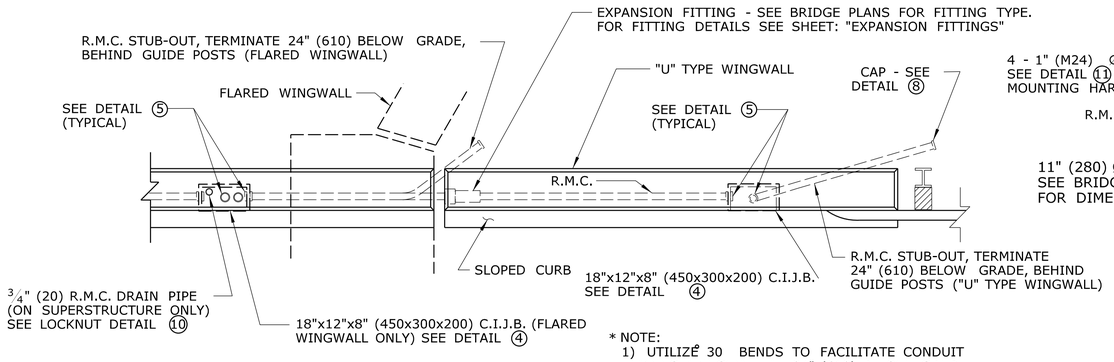
SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: - DATE: -

PROJECT TITLE: -

TOWN: -

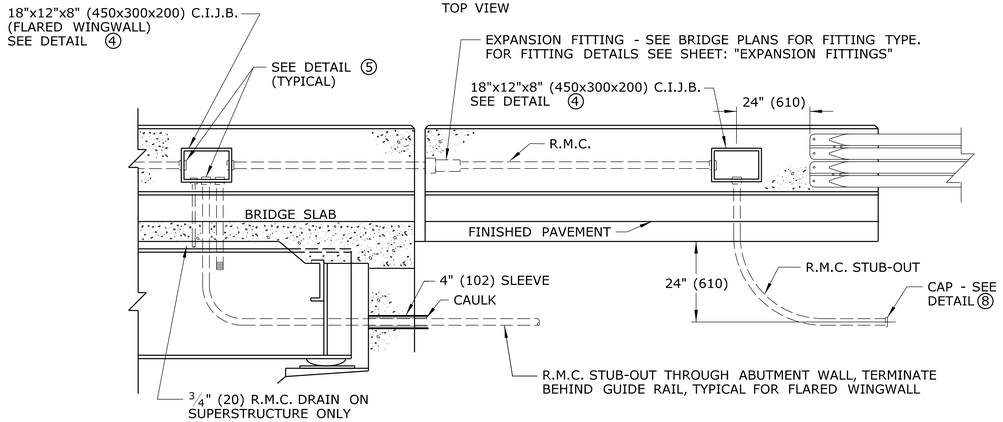
DRAWING TITLE: **BRIDGE MEDIAN ELECTRICAL DETAILS**

PROJECT NO. -
DRAWING NO. -
SHEET NO. S

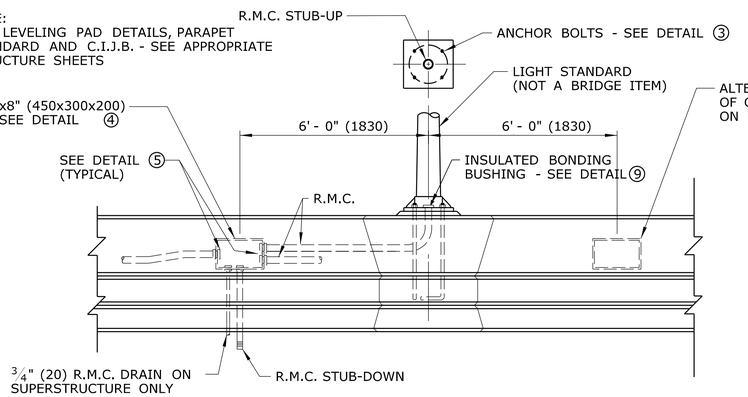


* NOTE:
1) UTILIZE 30° BENDS TO FACILITATE CONDUIT LEAVING WINGWALL AT 24" (610) BELOW GRADE

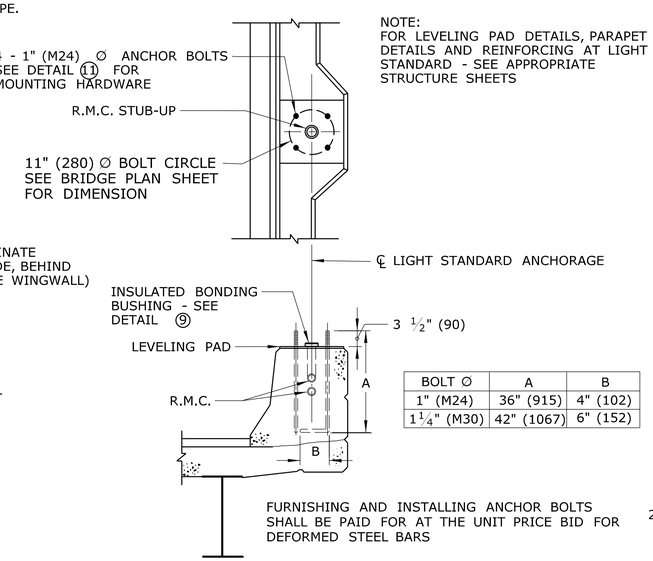
2) CONDUIT BENDS SHALL HAVE A RADIUS OF NOT LESS THAN 6 TIMES THE TRADE SIZE OF THE CONDUIT



(1) CONDUIT PARAPET TO FILL



(2) LIGHT STANDARD ON PARAPET WALL



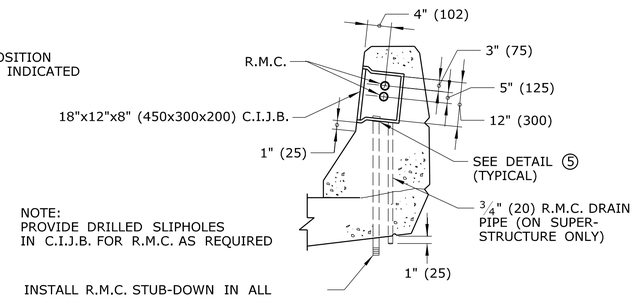
BOLT ∅	A	B
1" (M24)	36" (915)	4" (102)
1 1/4" (M30)	42" (1067)	6" (152)

FURNISHING AND INSTALLING ANCHOR BOLTS SHALL BE PAID FOR AT THE UNIT PRICE BID FOR DEFORMED STEEL BARS

(3) PARAPET TREATMENT AT LIGHT STANDARD

NOTE:
FOR LEVELING PAD DETAILS, PARAPET DETAILS AND REINFORCING AT LIGHT STANDARD - SEE APPROPRIATE STRUCTURE SHEETS

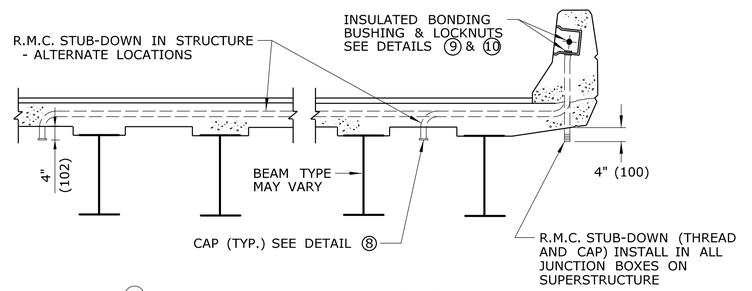
(11) ANCHOR BASE LIGHT STANDARD MOUNTING HARDWARE



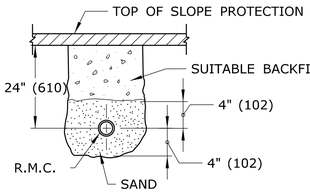
NOTE:
PROVIDE DRILLED SLIPHOLES IN C.I.J.B. FOR R.M.C. AS REQUIRED

INSTALL R.M.C. STUB-DOWN IN ALL JUNCTION BOXES ON SUPERSTRUCTURE. SIZE OF STUB-DOWN TO EQUAL SIZE OF CONDUIT IN PARAPET WALL

(4) JUNCTION BOX INSTALLATION

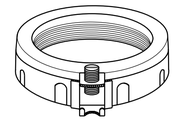


(6) SERVICE TO LUMINAIRE UNDER STRUCTURE

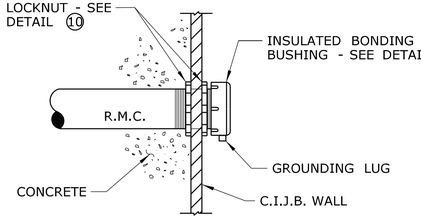


(7) RIGID METAL CONDUIT UNDER SLOPE PROTECTION

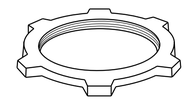
(8) MALLEABLE IRON CAP



(9) INSULATED BONDING BUSHING WITH GROUND LUG



(5) CONDUIT ENTRY INTO CAST IRON JUNCTION BOX



(10) LOCKNUT

NOTES:

1) SEE BRIDGE PLANS FOR SPECIFIC CONSTRUCTION DETAILS AND LOCATIONS.

2) DIAMETER OF RIGID METAL CONDUIT SHALL BE AS CALLED FOR ON BRIDGE PLANS.

3) R.M.C. STUB-UPS TO LIGHT STANDARDS, STUB-OUTS TO FILL, AND STUB-DOWNS TO UNDERBRIDGE LUMINAIRES, SHALL BE OF THE SAME DIAMETER AS THE R.M.C. CAST IN THE PARAPET WALL.

4) INSTALL ONE R.M.C. STUB-DOWN IN ALL JUNCTION BOXES ON SUPERSTRUCTURE. ADDITIONAL STUB-DOWNS SHALL BE INSTALLED WHERE INDICATED ON THE PLANS.

5) USE APPLICABLE DETAILS.

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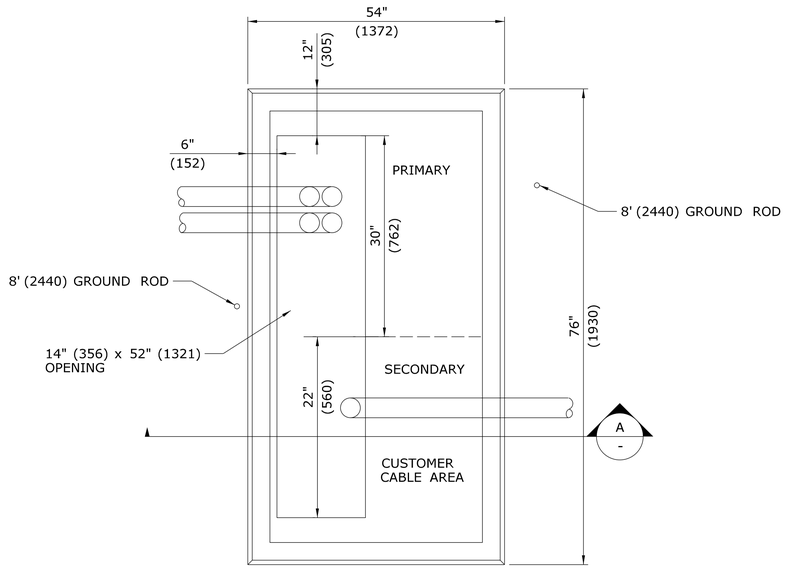
SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

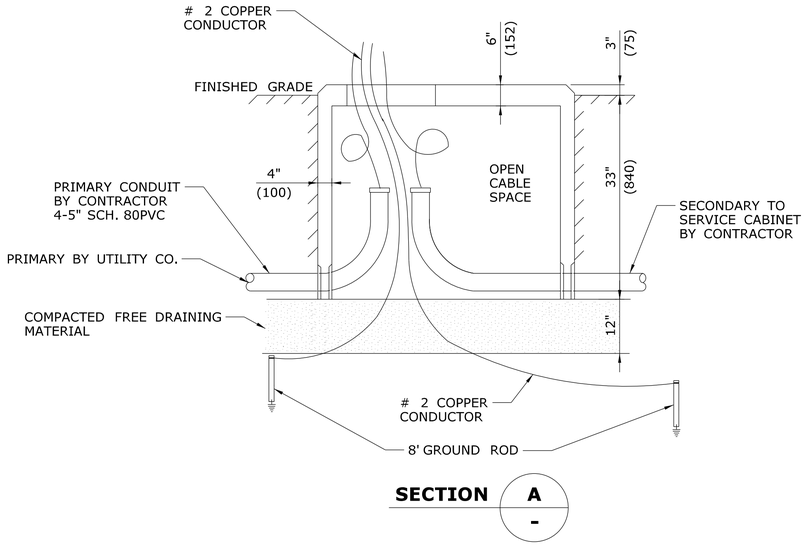
PROJECT TITLE: -

TOWN: -

DRAWING TITLE: **BRIDGE RELATED GUIDE SHEET TITLE**

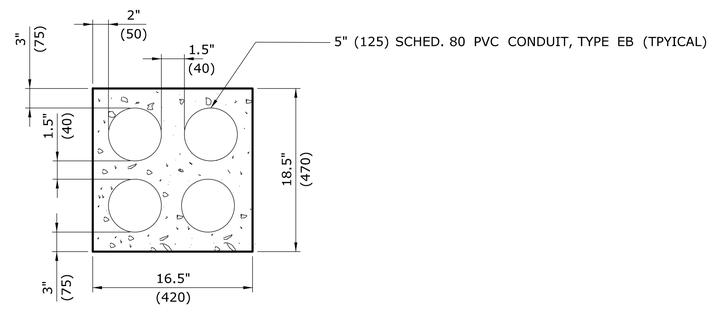
PROJECT NO. -
DRAWING NO. **ILL-**
SHEET NO. **S**





SECTION A -

PRECAST TRANSFORMER PAD



CONDUIT BANK CONSTRUCTION

CONDUIT BANK NOTES:

1. CONDUIT BANK INSTALLATION SHALL CONFORM TO NORTHEAST UTILITIES CO. SPECIFICATIONS AND REQUIREMENTS (DTR 73.209) OR MOST RECENT REVISION.
2. MINIMUM COVER FROM TOP OF CONDUIT BANK TO PAVEMENT OR EARTH SURFACE SHALL BE 24".
3. CONCRETE SHALL BE 2500 PSI, 1#2" MAXIMUM STONE, 6"-9" SLUMP OF SUCH CONSISTANCY THAT SPADING WILL ENSURE THE FLOW OF CONCRETE BETWEEN AND UNDER THE INDIVIDUAL DUCTS, BUT NOT SO WET AS TO FLOAT THE DUCTS. FOR TIER BUILDUP CONSTRUCTION A STIFFER CONSISTENCY SHOULD BE USED.

TRANSFORMER PAD NOTES:

1. TRANSFORMER PAD AND INSTALLATION SHALL CONFORM TO NORTHEAST UTILITIES CO. SPECIFICATIONS AND REQUIREMENTS (DTR 88.207) OR MOST RECENT REVISION.
2. CONCRETE 35 MPa AT 28 DAYS, STEEL # 4 BARS, ASTM A615 GRADE 40.

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SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE: -

TOWN: -

DRAWING TITLE: **UTILITY TRANSFORMER PAD**

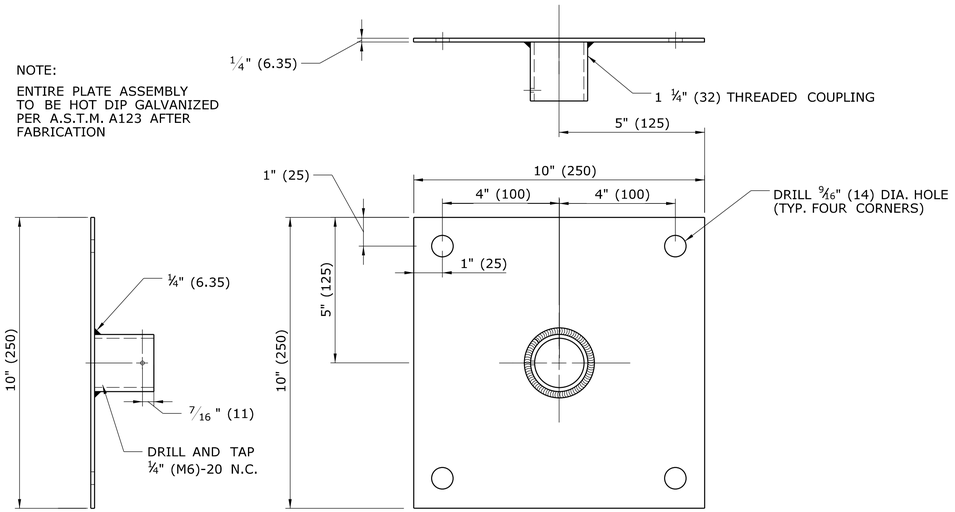
PROJECT NO. -
DRAWING NO. **ILL-**
SHEET NO. **S**

NOTE:

STEEL PLATE TO BE ATTACHED TO BRIDGE DECK USING CONNECTICUT D.O.T. APPROVED MECHANICAL ANCHOR (2). THREADED ROD SHALL BE 1/2" (13) IN DIAMETER, HOT DIP GALVANIZED PER A.S.T.M. - A123. MECHANICAL ANCHOR SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S SPECIFICATIONS.

NOTE:

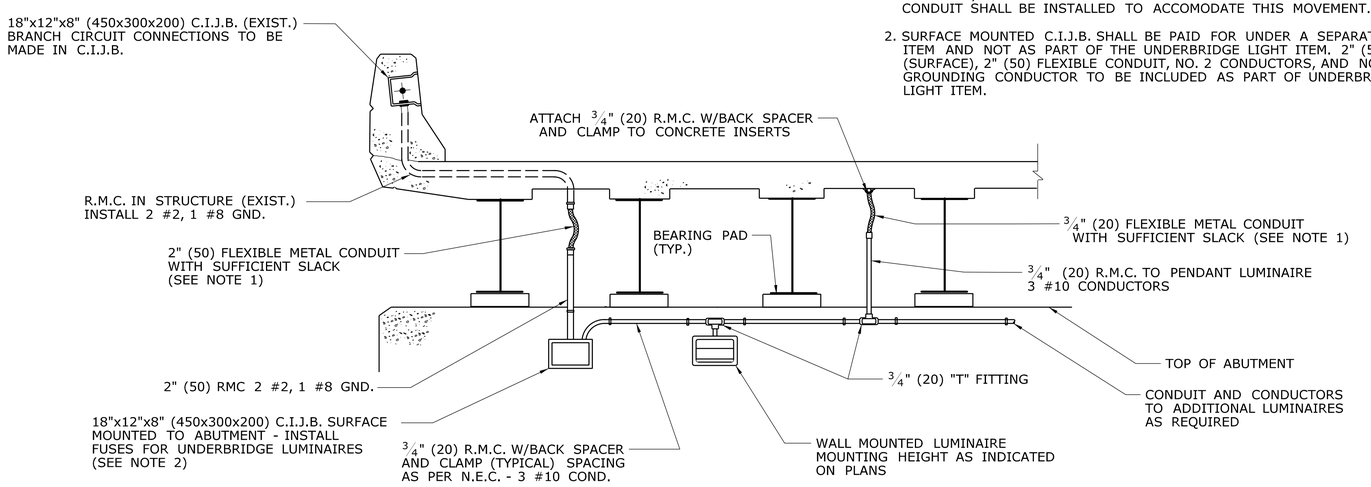
ENTIRE PLATE ASSEMBLY TO BE HOT DIP GALVANIZED PER A.S.T.M. A123 AFTER FABRICATION



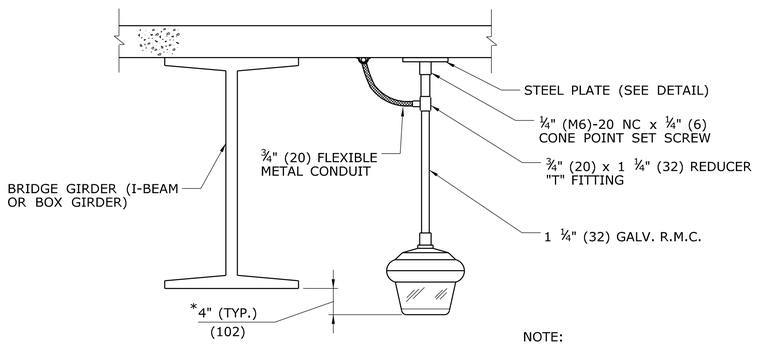
STEEL PLATE FOR PENDANT LUMINAIRE

NOTES:

1. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE THE MAXIMUM AMOUNT OF MOVEMENT BETWEEN THE BRIDGE SUPERSTRUCTURE AND THE ABUTMENT/PIER. AN APPROPRIATE LENGTH OF FLEXIBLE CONDUIT SHALL BE INSTALLED TO ACCOMODATE THIS MOVEMENT.
2. SURFACE MOUNTED C.I.J.B. SHALL BE PAID FOR UNDER A SEPARATE ITEM AND NOT AS PART OF THE UNDERBRIDGE LIGHT ITEM. 2" (50) RMC (SURFACE), 2" (50) FLEXIBLE CONDUIT, NO. 2 CONDUCTORS, AND NO. 8 GROUNDING CONDUCTOR TO BE INCLUDED AS PART OF UNDERBRIDGE LIGHT ITEM.



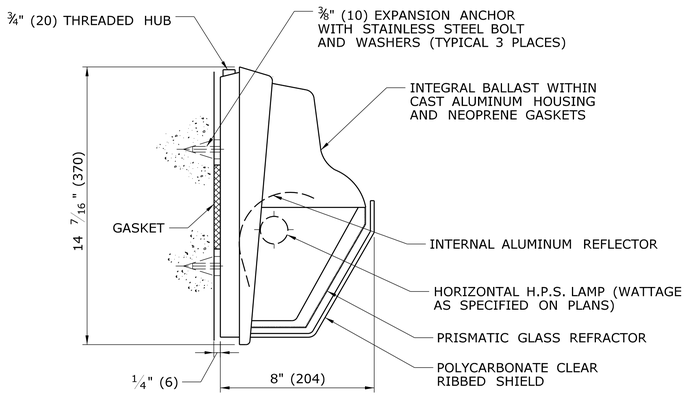
TYPICAL LAYOUT AND FEED FOR UNDERBRIDGE LUMINAIRE, WALL OR PENDANT MOUNTED



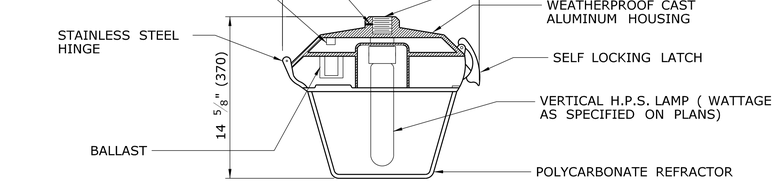
* FOR LOW CLEARANCE STRUCTURES, HEIGHT OF LUMINAIRE BOTTOM ABOVE ROADWAY SHALL NOT BE LESS THAN 14' - 3" (4345)

NOTE:
LONGITUDINAL LIGHT DISTRIBUTION OF LUMINAIRE TO BE PARALLEL WITH CENTERLINE OF ROADWAY

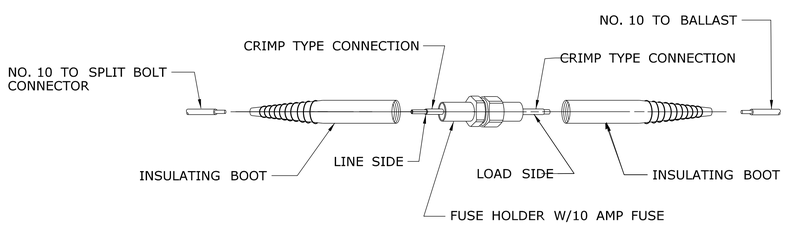
UNDERBRIDGE LUMINAIRE - PENDENT MOUNTING



UNDERBRIDGE LUMINAIRE (WALL MOUNTED)



UNDERBRIDGE LUMINAIRE (PENDANT MOUNTED)



INSULATED FUSE CONNECTOR

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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-	-	-	-
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-	-	-	-
-	-	-	-

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 11/6/2009

DESIGNER/DRAFTER: **MSB**
CHECKED BY: **JA**
NO SCALE

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\CTDOT_ILLUMINATION_GD.dgn

SIGNATURE/ BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE: -

TOWN: -

DRAWING TITLE: **UNDERBRIDGE LUMINAIRE**

PROJECT NO. **-**
DRAWING NO. **ILL-**
SHEET NO. **S**