

GENERAL NOTES:

1. THE LIMITS OF WORK FOR THIS PROJECT SHALL BE AS DETAILED IN THE SPECIAL PROVISIONS AND SHOWN ON THE CONDUIT PLANS.
2. CLEAR AND THIN VEGETATION IN AREAS INDICATED TO PROVIDE MAXIMUM VISIBILITY OF ADJACENT CAMERAS.
3. SURFACE MOUNTED CONDUIT SHALL BE MOUNTED ON STRUCTURE SURFACE, PARAPET, ABUTMENT OR PIER WALLS. IN-STRUCTURE CONDUIT SHALL BE THAT CONDUIT INSTALLED UNDER THE BRIDGE DECK AND WITHIN THE GIRDERS. SUPPORTED FIBER OPTIC CABLE SHALL BE STRAPPED TO EXISTING SURFACE MOUNTED OR IN-STRUCTURE CONDUIT.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING, VERIFYING AND PROTECTING ALL UTILITIES, BELOW AND ABOVE GROUND. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL CONTACT "CALL BEFORE YOU DIG" AND ALL UTILITIES WITHIN THE TOWNS ALONG THE PROJECT CORRIDOR. THE CONTRACTOR SHALL ALSO CONTACT D.O.T. DISTRICT ELECTRICAL TO MARK OUT THE UNDERGROUND ILLUMINATION CONDUIT AND APPURTENANCES AND MR. BRADLEY J. OVERTURF OF PLANNING INVENTORY AND DATA AT 860-594-2089 TO MARK OUT TRAFFIC MONITORING STATION.
5. IN AREAS WHERE THE MAINLINE CONDUIT CROSSES THE EXISTING ILLUMINATION DUCT, THE CONTRACTOR WILL BE REQUIRED TO HAND EXCAVATE. THE MAINLINE CONDUIT WILL BE INSTALLED AT A SUFFICIENT DEPTH BELOW THE ILLUMINATION DUCT. ANY DAMAGE CAUSED TO THE ILLUMINATION AND TRAFFIC MONITORING STATIONS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. MARK OUT OF THE ILLUMINATION AND TRAFFIC MONITORING STATIONS WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY.
6. THE CONTRACTOR SHALL CONTACT MR. ROBERT KENNEDY OF HIGHWAY OPERATIONS AT 860-594-3458 ONCE THE LOCATIONS OF THE PULL BOXES AND VAULTS ARE STAKED, FOR APPROVAL. THE LOCATIONS OF THESE ITEMS ARE SHOWN FOR ILLUSTRATION PURPOSES ONLY, AND SHALL BE ADJUSTED FOR FIELD CONDITIONS.
7. IT IS NOT THE INTENT OF THESE DRAWINGS TO INCLUDE EVERY DETAIL OF THE WORK REQUIRED TO BE PERFORMED BY THE CONTRACTOR TO MAKE A COMPLETE INSTALLATION. ITEMS NOT SPECIFICALLY SHOWN ON THE DRAWINGS OR INCLUDED IN THE SPECIFICATIONS THAT ARE REQUIRED TO BE PERFORMED BY THE CONTRACTOR TO PERFORM THE WORK, ARE TO BE INCLUDED AS PART OF THE CONTRACTOR'S WORK.
8. THE CONDUIT IN TRENCH SHALL BE 4" (100) SCHEDULE 40 PVC UNLESS OTHERWISE NOTED ON THE PLANS. ALL CONDUIT UNDER ROADWAYS SHALL BE RIGID METAL. SURFACE MOUNTED OR IN-STRUCTURE CONDUIT SHALL BE RMC OR FIBERGLASS CONDUIT AS NOTED. MAINLINE CONDUIT SHALL BE DEFINED AS THAT WHICH WILL CARRY FIBER OPTIC COMMUNICATION CABLE WITHIN THE PROJECT LIMITS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADHERENCE TO ALL "CALL BEFORE YOU DIG" LOCATION RULES AND REQUIREMENTS PRIOR TO EXCAVATION.
10. THESE PLANS DEPICT THE INSTALLATION OF A 4" (100) MULTI-DUCT CONDUIT TO ACCOMMODATE A FUTURE FIBER OPTIC CABLE AS WELL AS 2" (50) BRANCH CONDUIT OVERLAPS WITHIN THE SAME TRENCH AS THE 4" (100) MAINLINE CONDUIT.
11. THE INSTALLATION OF 4" (100) CONDUIT SHALL INCLUDE AN EXPANSION COUPLING AT EACH BRIDGE JOINT AS NOTED IN THE APPROPRIATE DETAILS.
12. AT ALL RAMP CROSSINGS, THE RMC SHALL BE INSTALLED ACROSS THE ROADWAY IN THE STRAIGHTEST MANNER POSSIBLE.
13. ALL PROPOSED HANDHOLES SHALL BE OF TYPE AS NOTE ON PLANS.
14. AT SPECIFIED LOCATIONS SHOWN ON THE PLANS, THE 4" (100) MAINLINE CONDUIT WILL SHARE THE MAINLINE CONDUIT TRENCH WITH A 2" (50) RIGID METAL CONDUIT (RMC) FOR THE BRANCH CONDUIT OVERLAP RUNS. THESE 2" (50) BRANCH CONDUITS WILL SERVE AS FUTURE SERVICE CONNECTIONS FOR CCTV AND VMS LOCATIONS, TERMINATING AT PULLBOXES AND TYPE II CONCRETE HANDHOLES.

TYPICAL CROSS SECTION NOTES:

THESE TYPICAL PLAN AND CROSS SECTION DETAILS ARE DRAWN NOT TO SCALE AND PROVIDED FOR INFORMATIONAL PURPOSES ONLY. THESE DETAILS DO NOT NECESSARILY REFLECT ALL OF THE SITE CONDITIONS IN THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE FIELD CONDITIONS AND SELECTING THE APPROPRIATE DETAIL FOR INSTALLATION OF THE CONDUIT.

LEGEND

- PB □ CONCRETE PULL BOX
- JB □ CAST IRON JUNCTION BOX - SIZE AS INDICATED
- V □ CONCRETE VAULT
- CONCRETE HANDHOLE TYPE I OR TYPE II
- 2" (50) RMC OR 4" (100) PVC (MULTIDUCT)
- 2" (50) RMC OR 4" (100) RMC UNDER ROADWAY (MULTIDUCT)
- S-S-S- 2" (50) RMC OR 4" (100) RMC OR FIBERGLASS SURFACE & IN-STRUCTURE MOUNTED (MULTIDUCT)
- EXISTING LUMINAIRE
- EXISTING CATCH BASIN
- EXISTING CONCRETE HANDHOLE
- EXISTING GUIDE RAIL

FINAL DESIGN REVIEW

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REV. DATE REVISION DESCRIPTION SHEET NO.	Plotted Date: 3/15/2021	FILENAME: ...ID-XX-IMS-CTDOT-STANDARD DTL.S.dgn	DRAWING TITLE: <p>TYPICAL SECTIONS GENERAL NOTES</p>		DRAWING NO. <p>ID-01</p>	SHEET NO.	

CONDUIT SUPPORT INSTALLATION SEQUENCE:

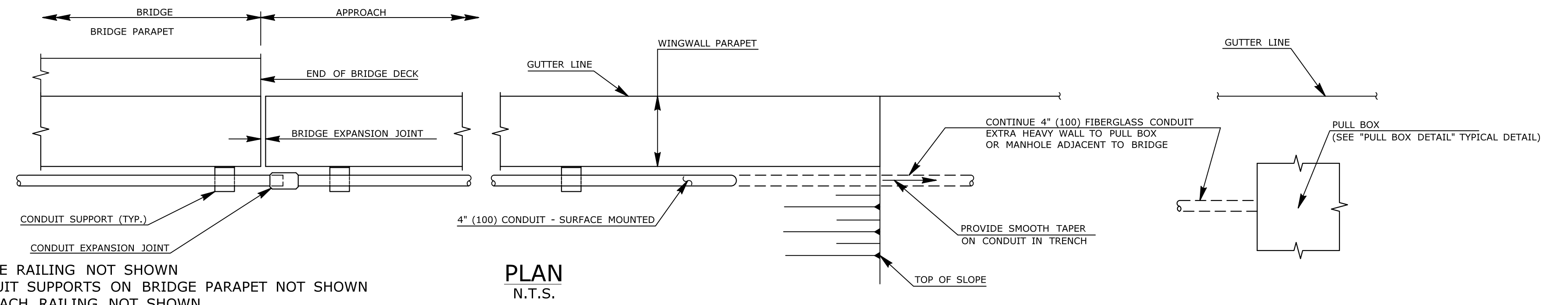
A. MOUNT CONDUIT SUPPORTS ON EXISTING BRIDGES AND WALLS. PLACE SUPPORTS ACCORDING TO MOUNTING LAYOUTS AND DETAILS AS SHOWN. DRILL HOLES IN EXISTING STRUCTURES ACCORDING TO "FIELD FASTENER NOTES" AND "STRUCTURAL NOTES".

B. FASTEN CONDUIT TO SUPPORTS WITH U-BOLTS.

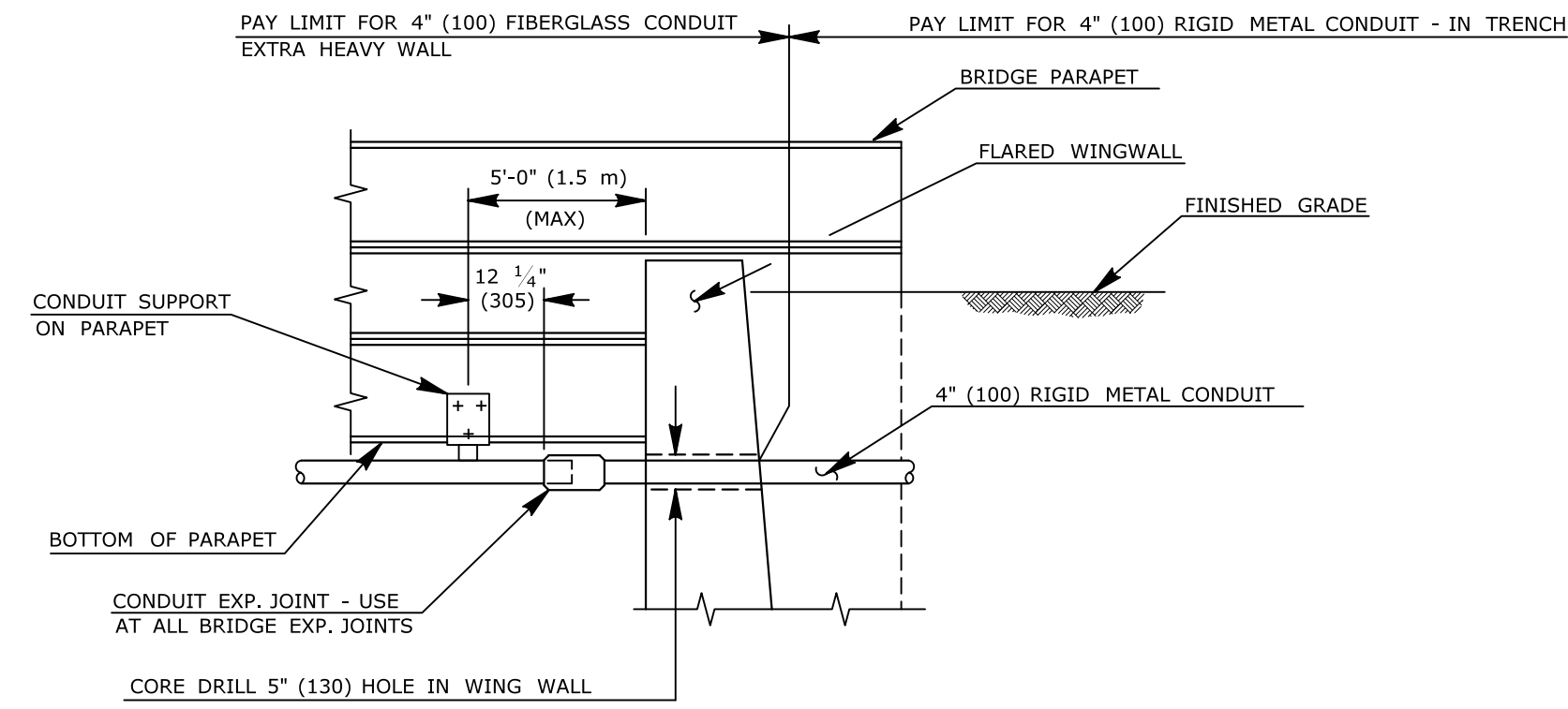
4" (100) SURFACE MOUNTED CONDUIT SUPPORT SPACING NOTES:

A. SPACE CONDUIT SUPPORTS AT 14'-9" (4.5 m) O.C. MAXIMUM FOR STRUCTURE MOUNTED 4" (100) CONDUIT - SURFACE MOUNTED AS SHOWN ON THE DETAILS AND AS DIRECTED BY THE ENGINEER.

B. ADDITIONAL CONDUIT SUPPORTS ARE REQUIRED AT LOCATIONS OF EXPANSION FITTINGS AND FIXED AND FLEXIBLE SWEEP BENDS AS SHOWN ON THE DETAILS OR AS DIRECTED BY THE ENGINEER.

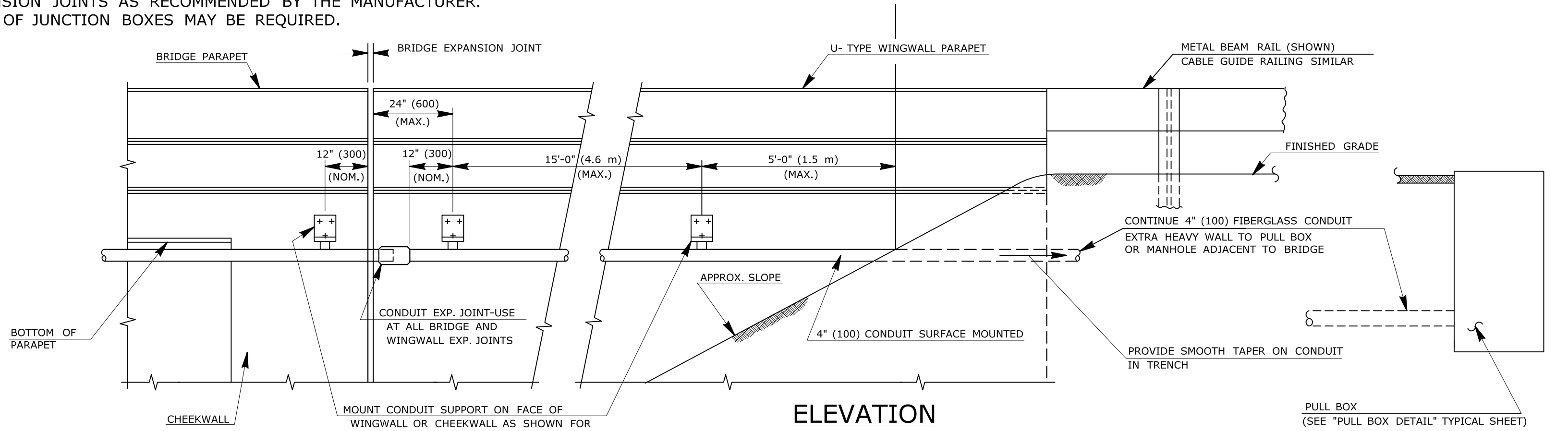


- NOTES:
1. BRIDGE RAILING NOT SHOWN
 2. CONDUIT SUPPORTS ON BRIDGE PARAPET NOT SHOWN
 3. APPROACH RAILING NOT SHOWN
 4. INSTALL EXPANSION JOINTS AS RECOMMENDED BY THE MANUFACTURER.
 5. INSTALLATION OF JUNCTION BOXES MAY BE REQUIRED.



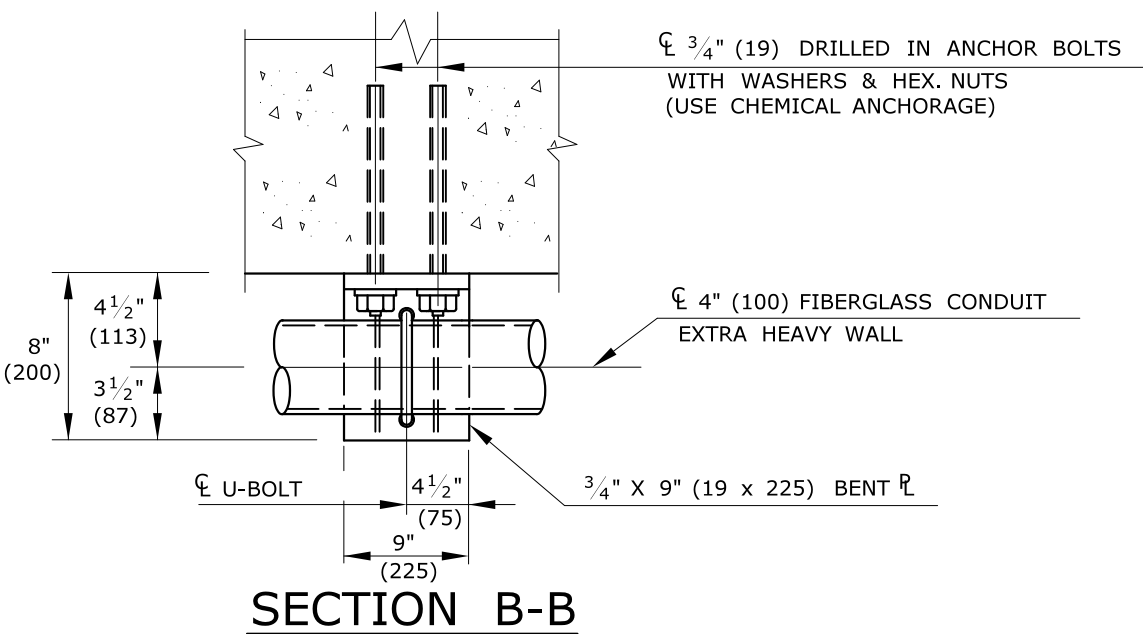
NOTE: BRIDGE RAILING & APPROACH RAILING NOT SHOWN.

FLARED WINGWALL CONDUIT - PARAPET TO FILL
N.T.S.



NOTE: MOUNT CONDUIT ON WING WALLS AT SAME POSITION AS CONDUIT ON PARAPET

U - TYPE WINGWALL CONDUIT - PARAPET TO FILL
N.T.S.



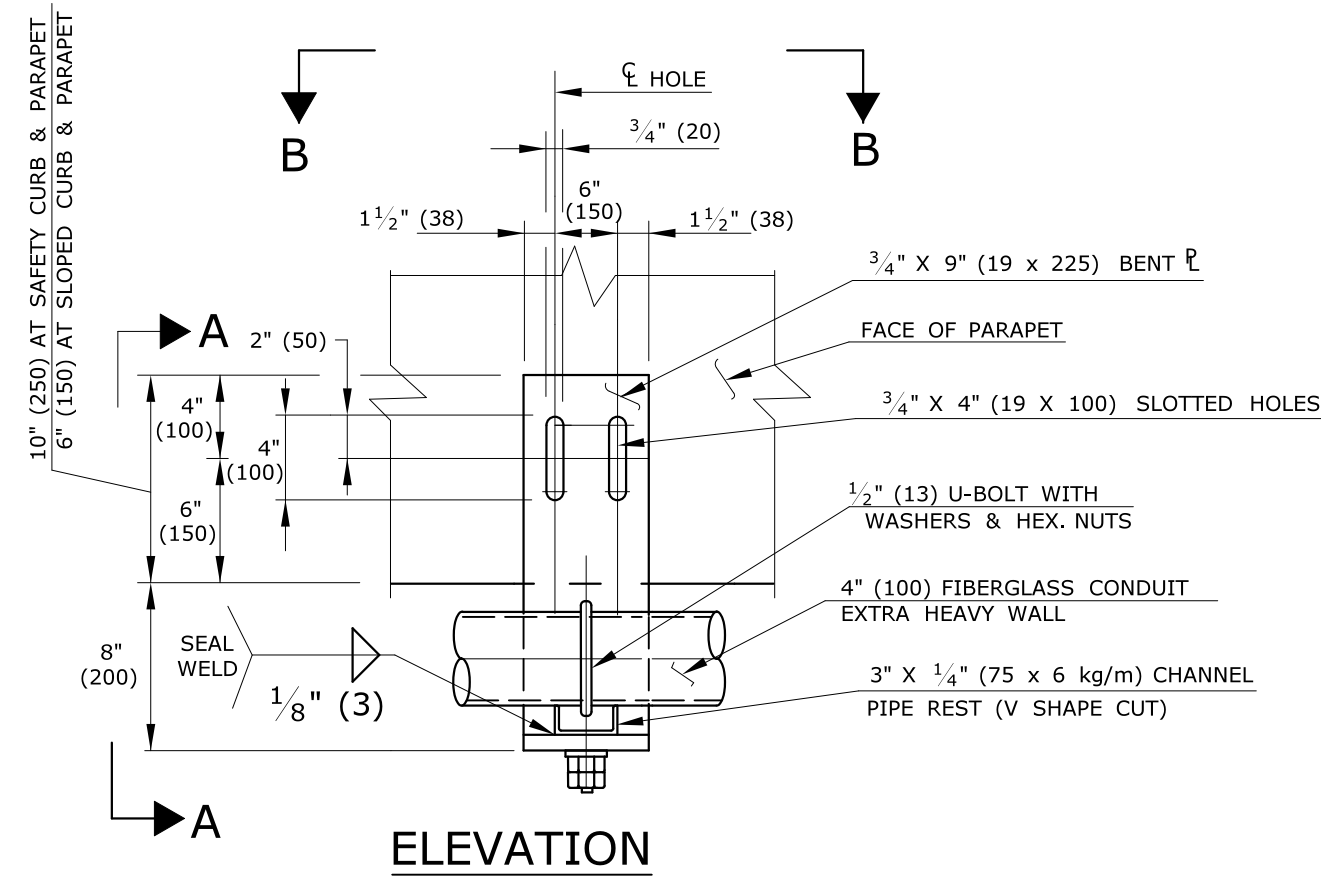
SECTION B-B

NOTES

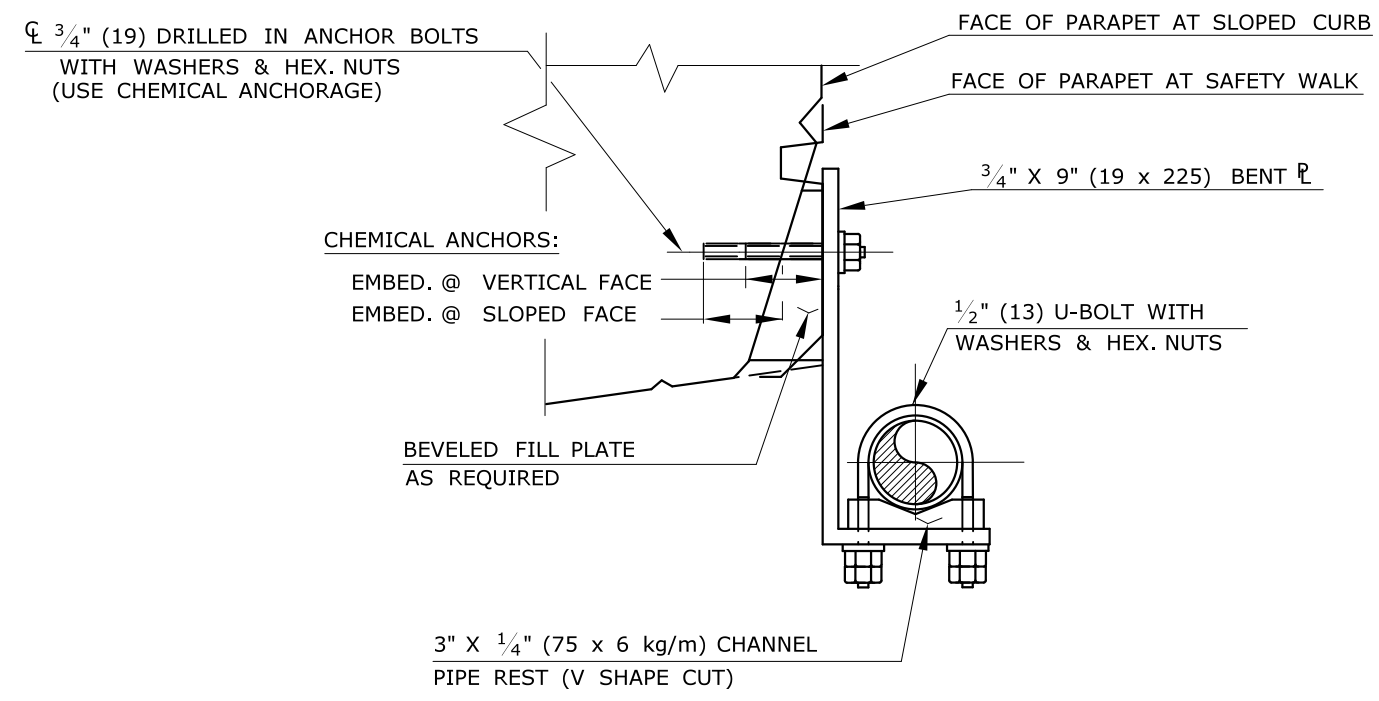
1. DETAILS SHOWN AT PARAPET, ATTACHMENT SIMILAR ON WALLS.
2. PROVIDE 3/4" (19) DIA. HOLES FOR 5/8" (16) DIA. BOLTS AND U-BOLTS IN CONDUIT SUPPORT AND CHANNEL PIPE REST.
3. MATERIAL FOR THREADED ANCHORS, NUTS, AND WASHERS FOR DRILLING AND CHEMICAL ANCHORING IN EXISTING CONCRETE ELEMENTS SHALL BE STAINLESS STEEL. ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A193(M), CLASS 2, GRADE B8M (TYPE 316). WASHERS SHALL CONFORM TO ASTM A276(M), TYPE 316, ANNEALED.

NOTE

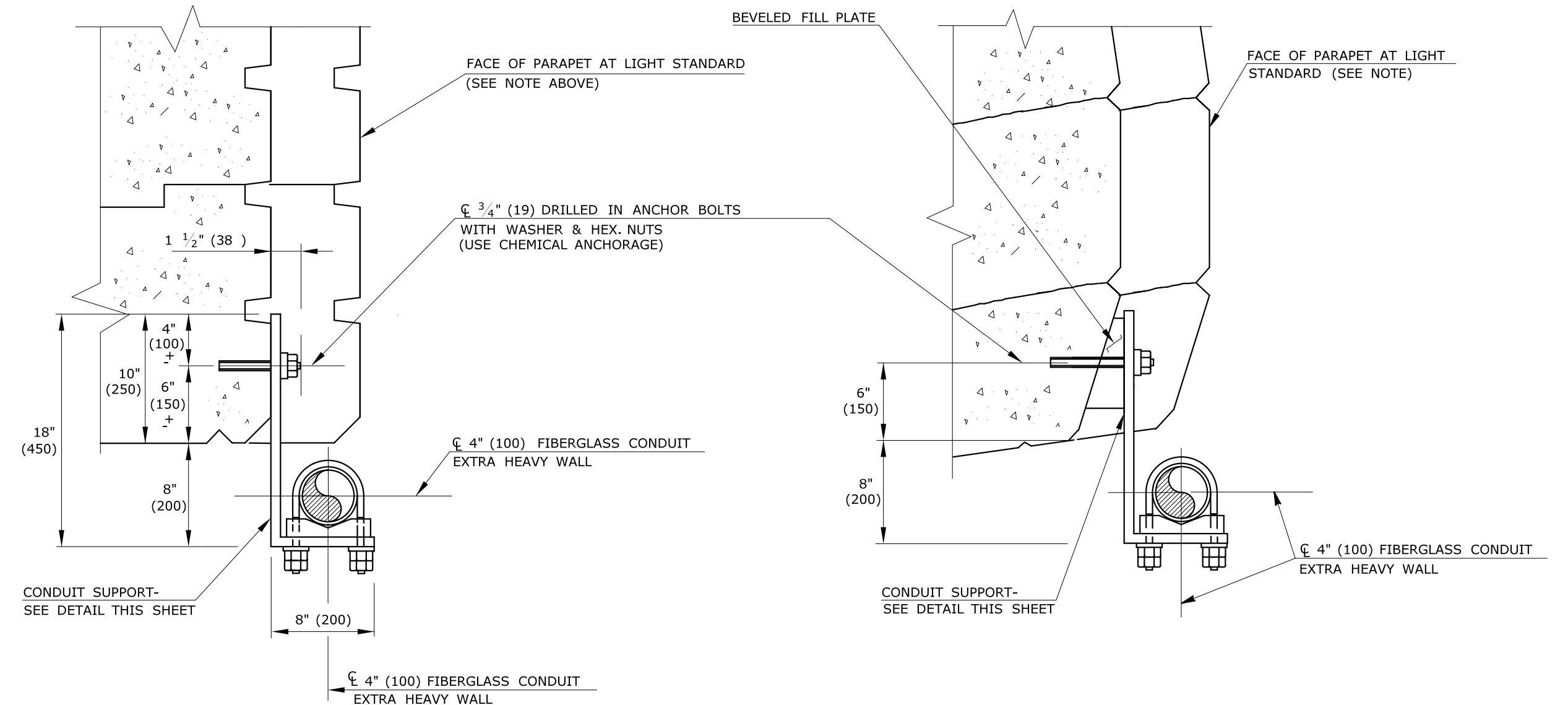
1. FACE OF PARAPET AT LIGHT STANDARDS SHOWN TO ILLUSTRATE CONDUIT MOUNTED TO CLEAR WIDENED PARAPET, DETAIL AT PARAPET MOUNTED SIGN SUPPORTS AND NOISE BARRIER WALLS, ETC. SIMILAR.



ELEVATION



SECTION A-A



(SAFETY CURB & PARAPET)

(SLOPED CURB AND PARAPET)


4" (100) SURFACE MOUNTED CONDUIT SUPPORT DETAILS
CONDUIT SUPPORT SPACING: SPACE 4" (100) CONDUIT SUPPORTS AT 14 3/4' (4.5 m) O.C. MAXIMUM.

4" (100) SURFACE MOUNTED CONDUIT ATTACHMENT TO BRIDGE PARAPET

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/15/2021

DESIGNER/DRAFTER:	-
CHECKED BY:	-


STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

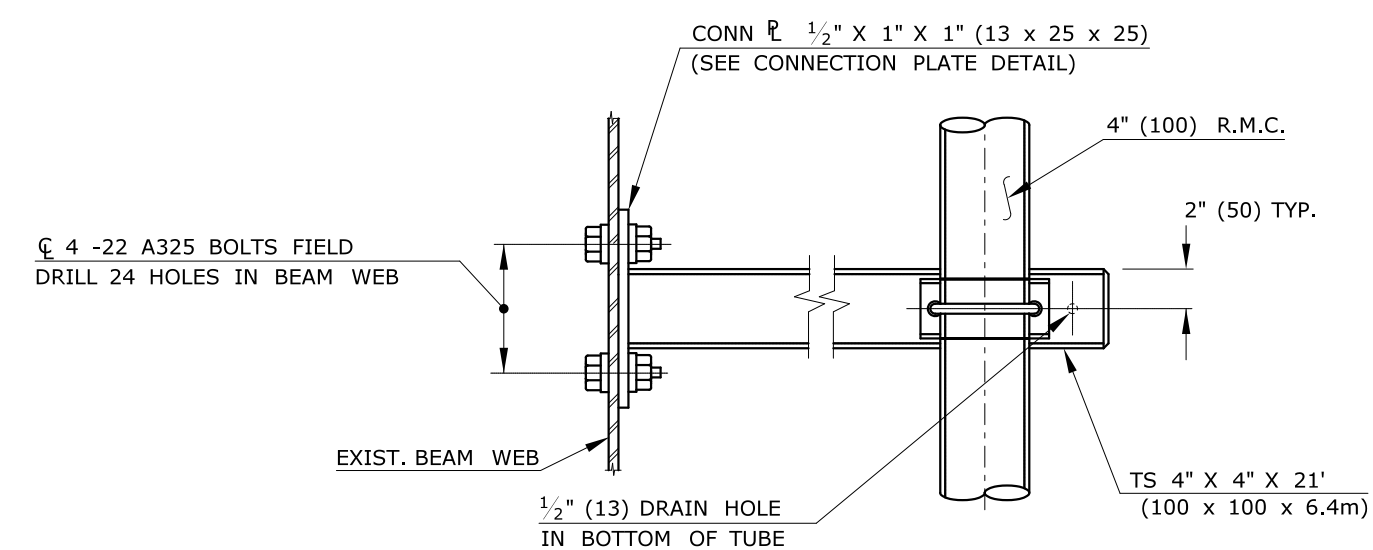
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PROJECT TITLE:
INCIDENT MANAGEMENT SYSTEM INSTALLATIONS ALONG ROUTE 3 AND ROUTE 72

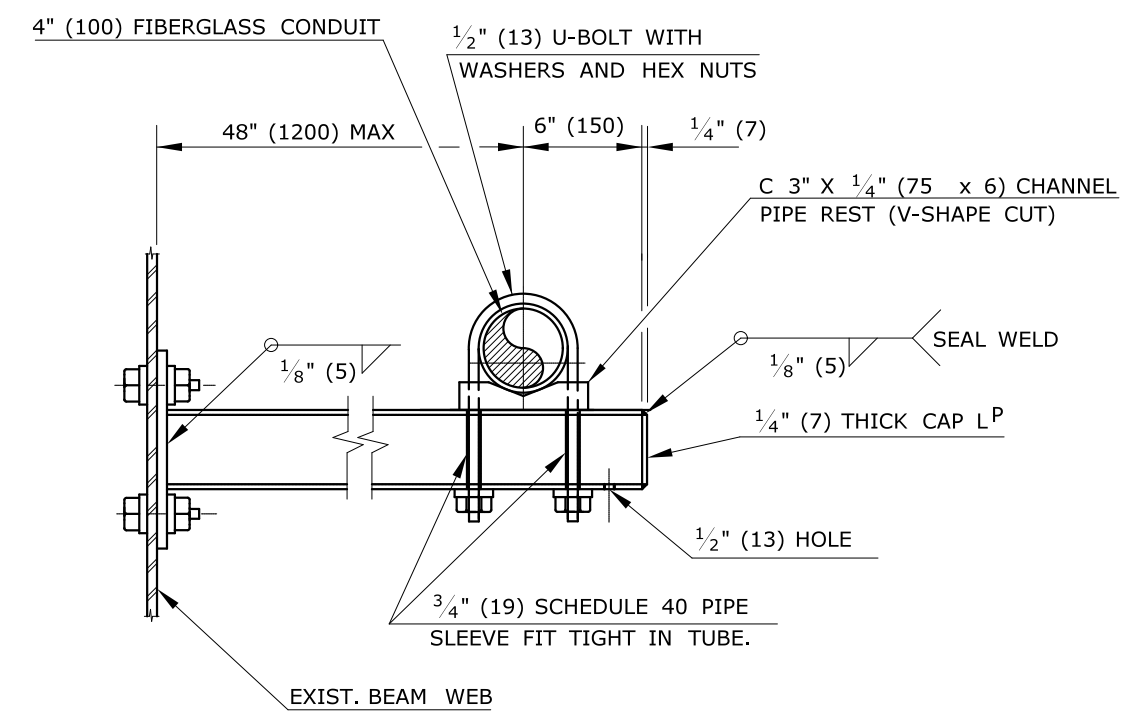
TOWN:	FARMINGTON TO CROMWELL
DRAWING TITLE:	U-TYPE & FLARED WINGWALL CONDUIT PARAPET MTG, CONDUIT SUPPORT & ATTACHMENTS

PROJECT NO.	171-415/416
DRAWING NO.	ID-02
SHEET NO.	



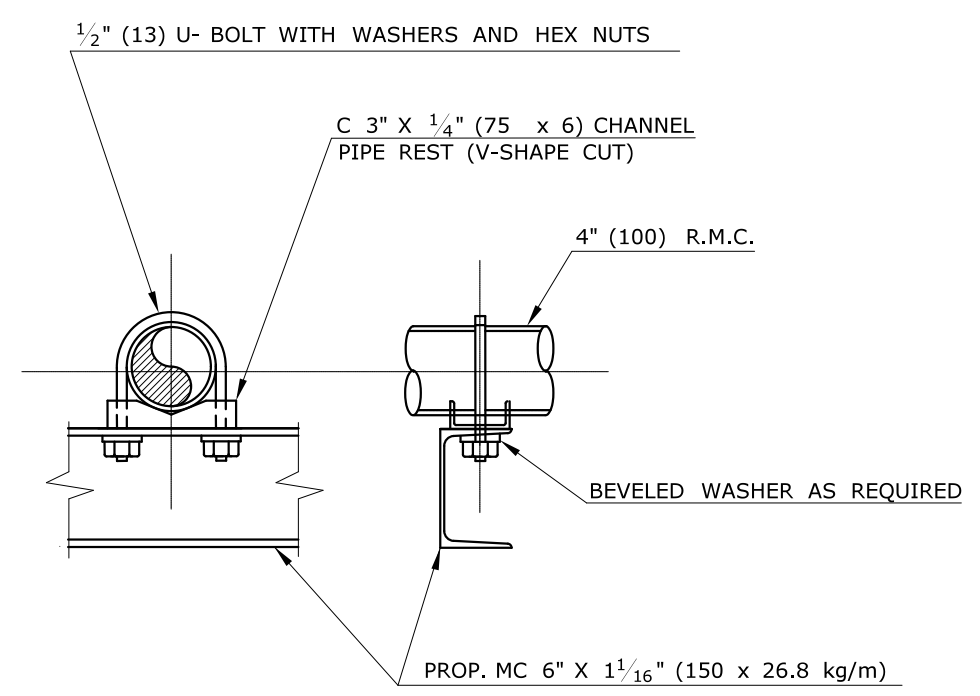
NOTE: FOR INFORMATION NOT SHOWN, SEE ELEVATION.

PLAN

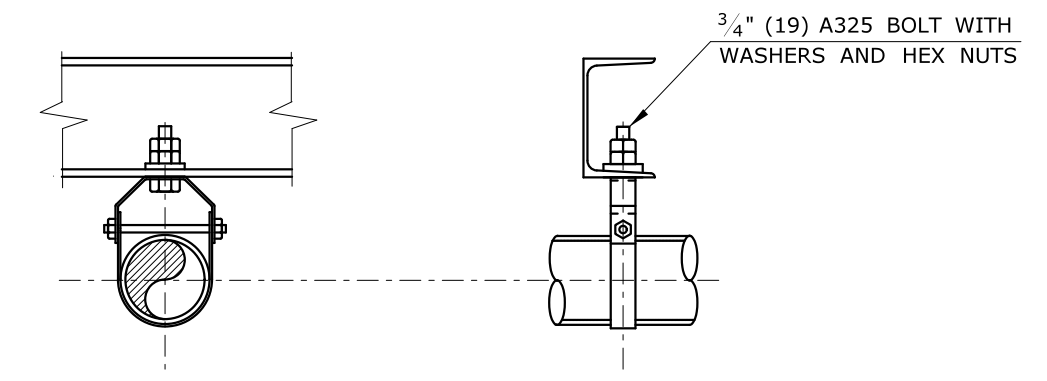


ELEVATION

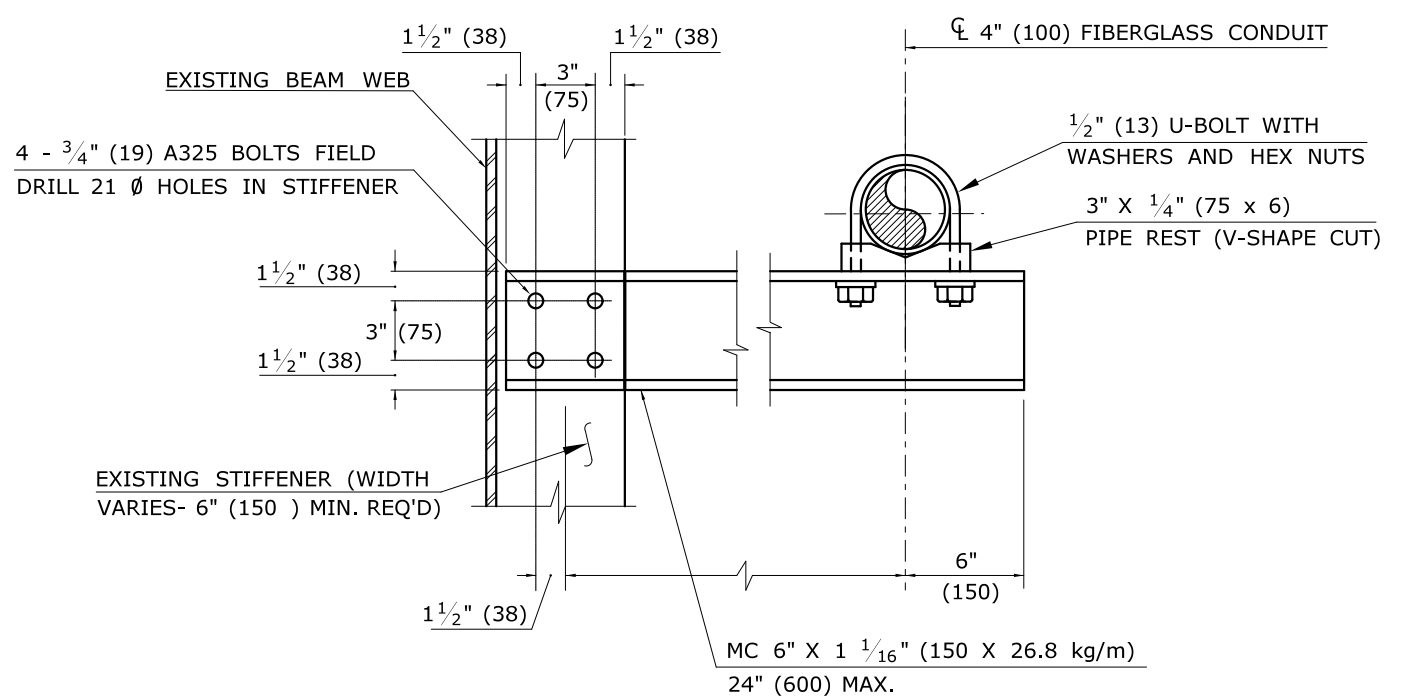
TS CONDUIT SUPPORT



U-BOLT DETAILS

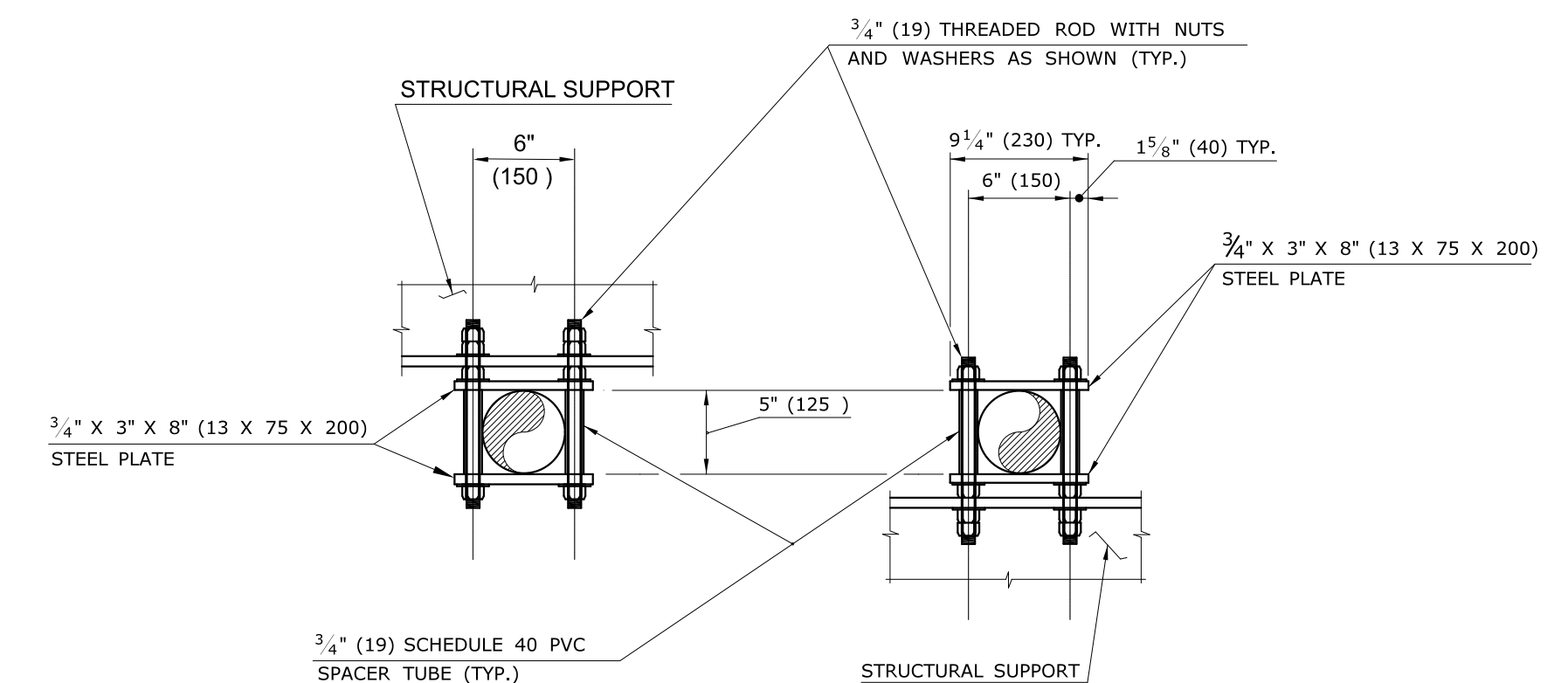


DIRECT BOLTED ATTACHMENT



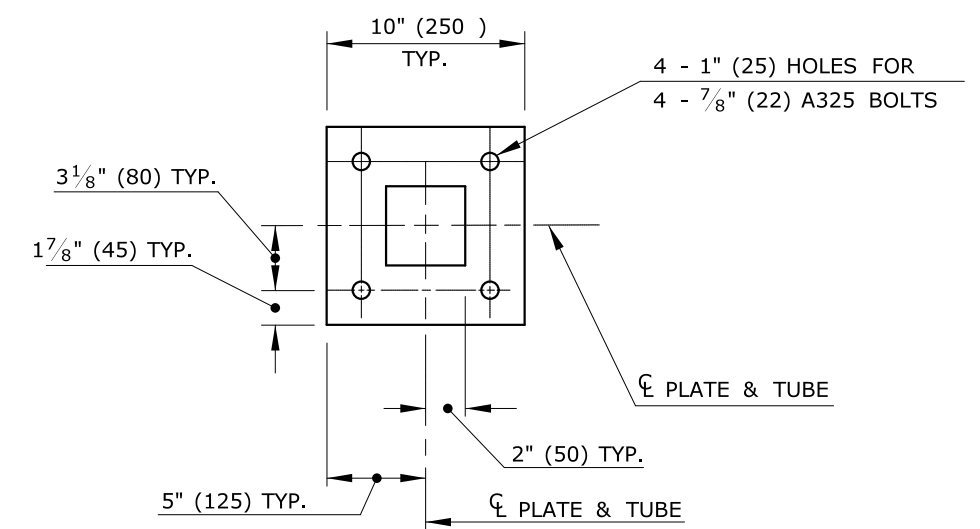
ELEVATION

CANTILEVER CHANNEL CONDUIT SUPPORT



ATTACHED HANGER SUPPORTED HANGER

CONDUIT RACK HANGER DETAILS

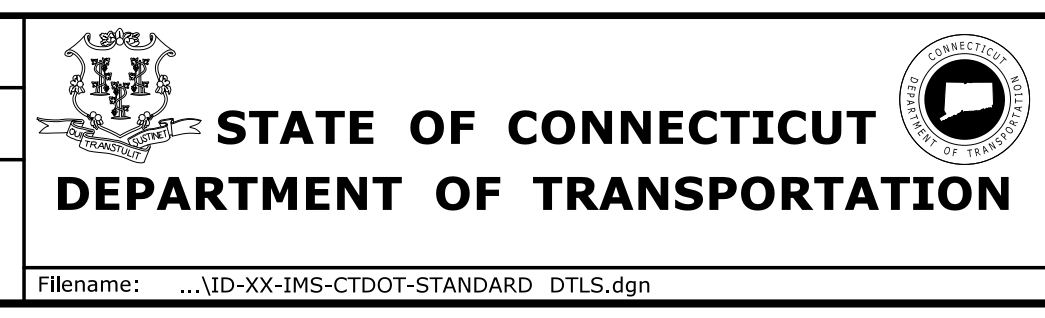


CONNECTION PLATE DETAIL

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/15/2021

DESIGNER/DRAFTER:
D.K. SWINBURNE
CHECKED BY:
R.M. WATERMAN

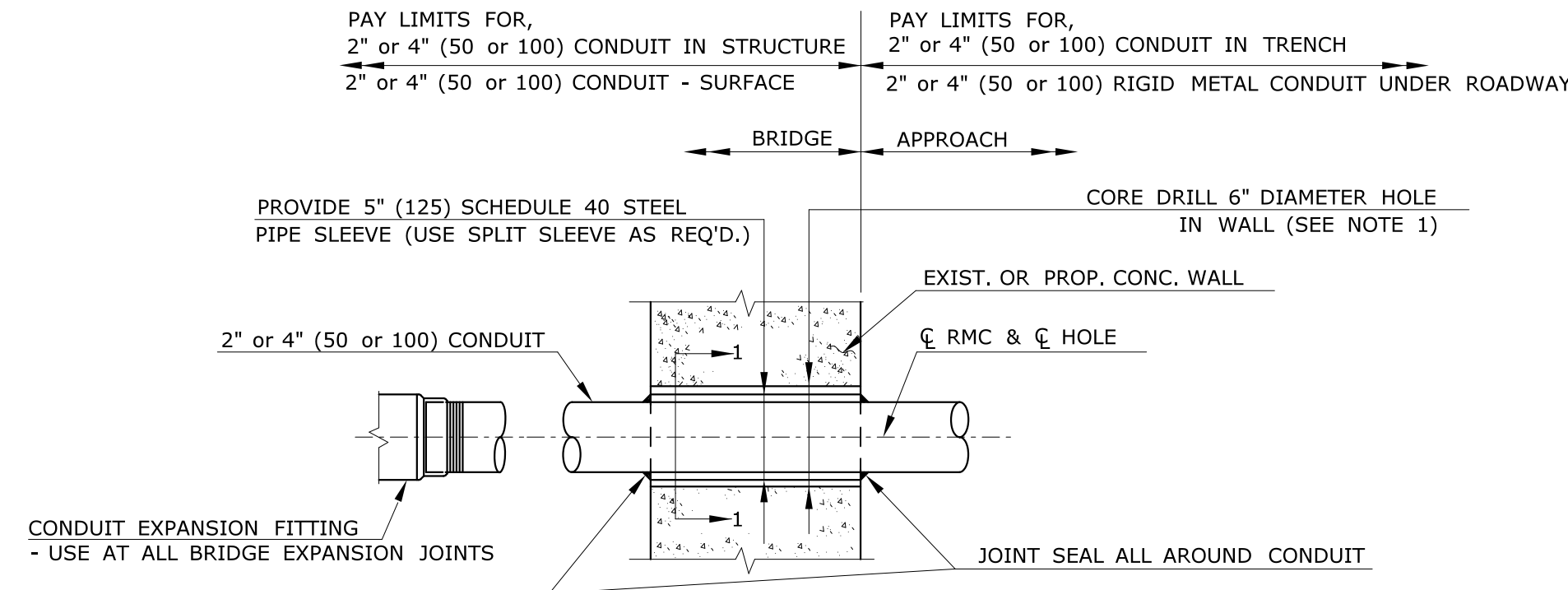


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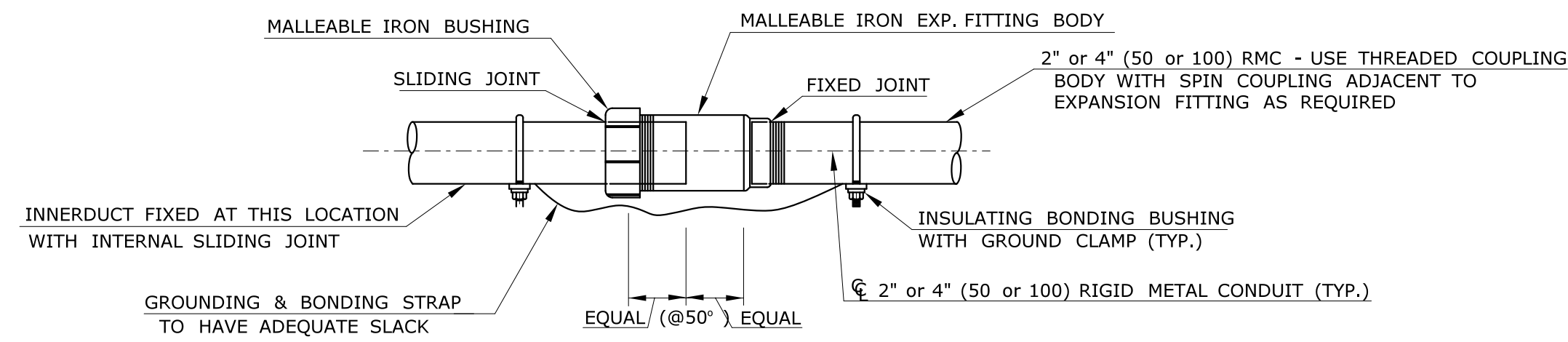
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**INCIDENT MANAGEMENT
SYSTEM INSTALLATIONS
ALONG ROUTE 9 AND ROUTE 72**

TOWN:
**FARMINGTON TO
CROMWELL**
DRAWING TITLE:
**TS CONDUIT SUPPORT, CANTILEVER
CHANNEL CONDUIT SUPPORT, U-BOLTS
CONDUIT RACK HANGER, CONNECTION PLATE**

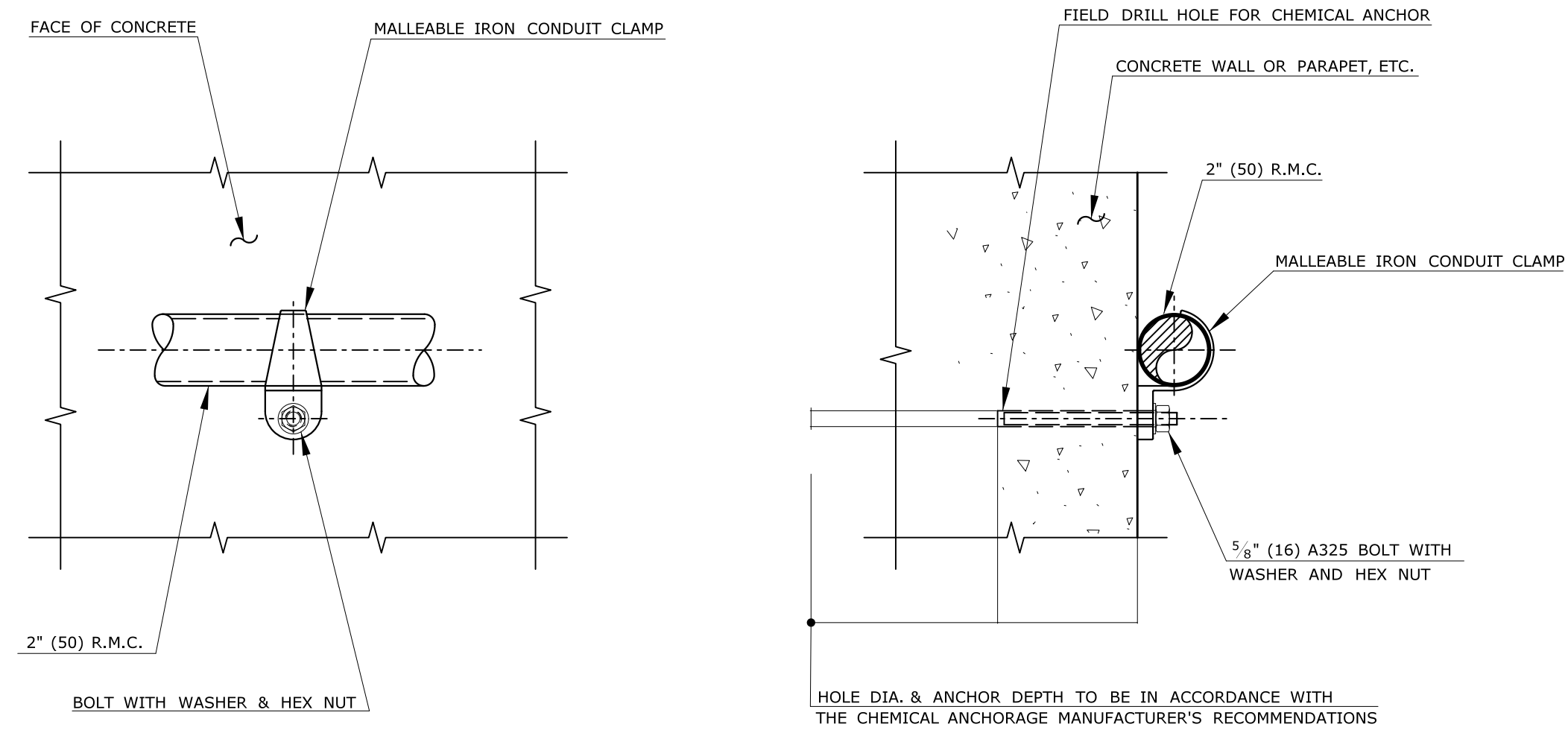
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171-415/416
DRAWING NO.
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SHEET NO.



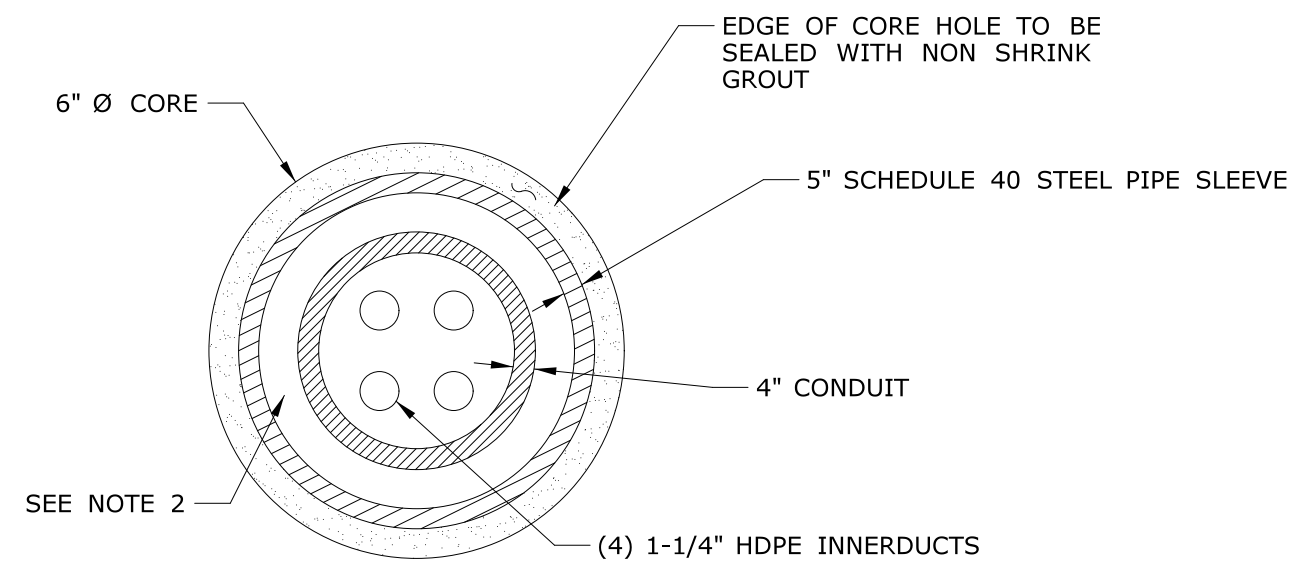
WALL PENETRATION DETAIL
NOT TO SCALE



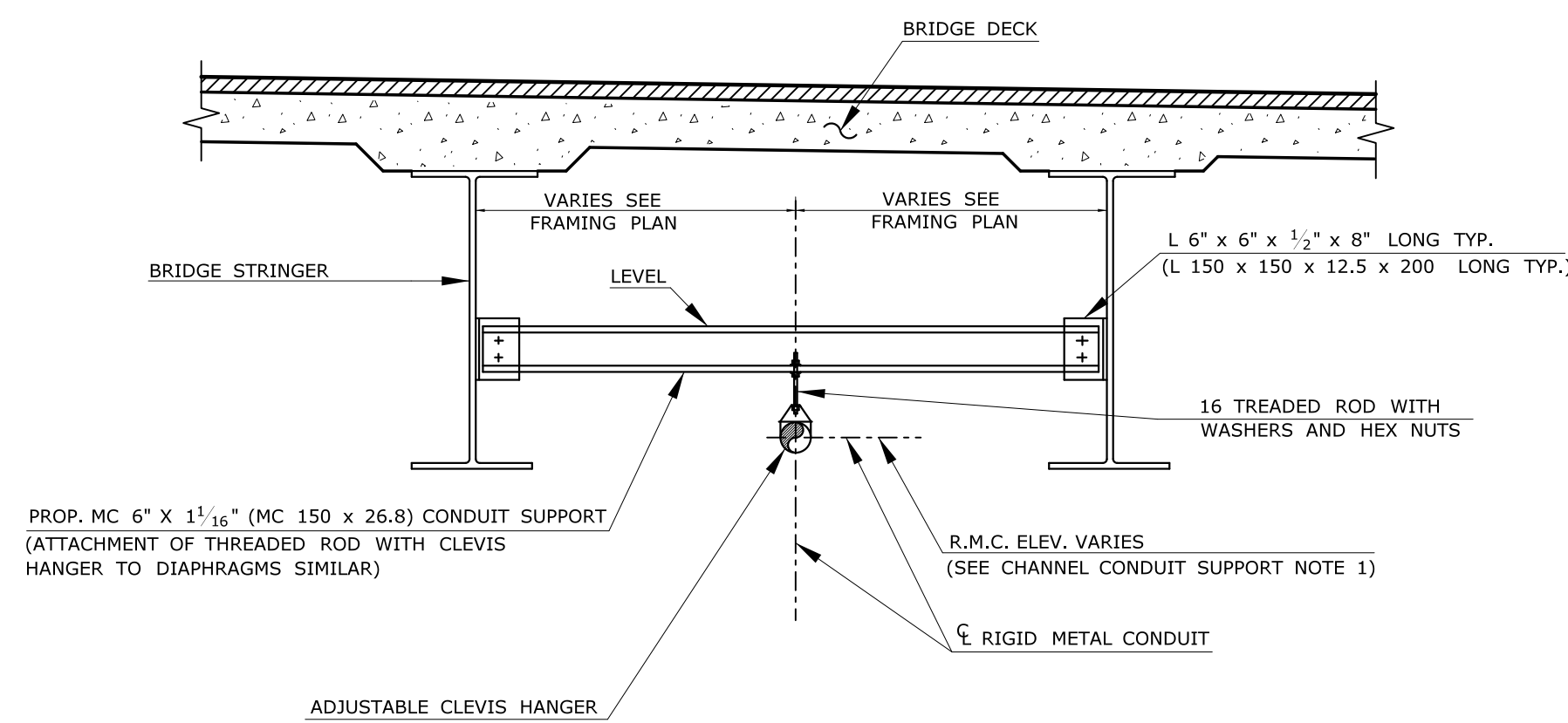
EXPANSION FITTING
8" (200) TOTAL MOVEMENT
NOT TO SCALE



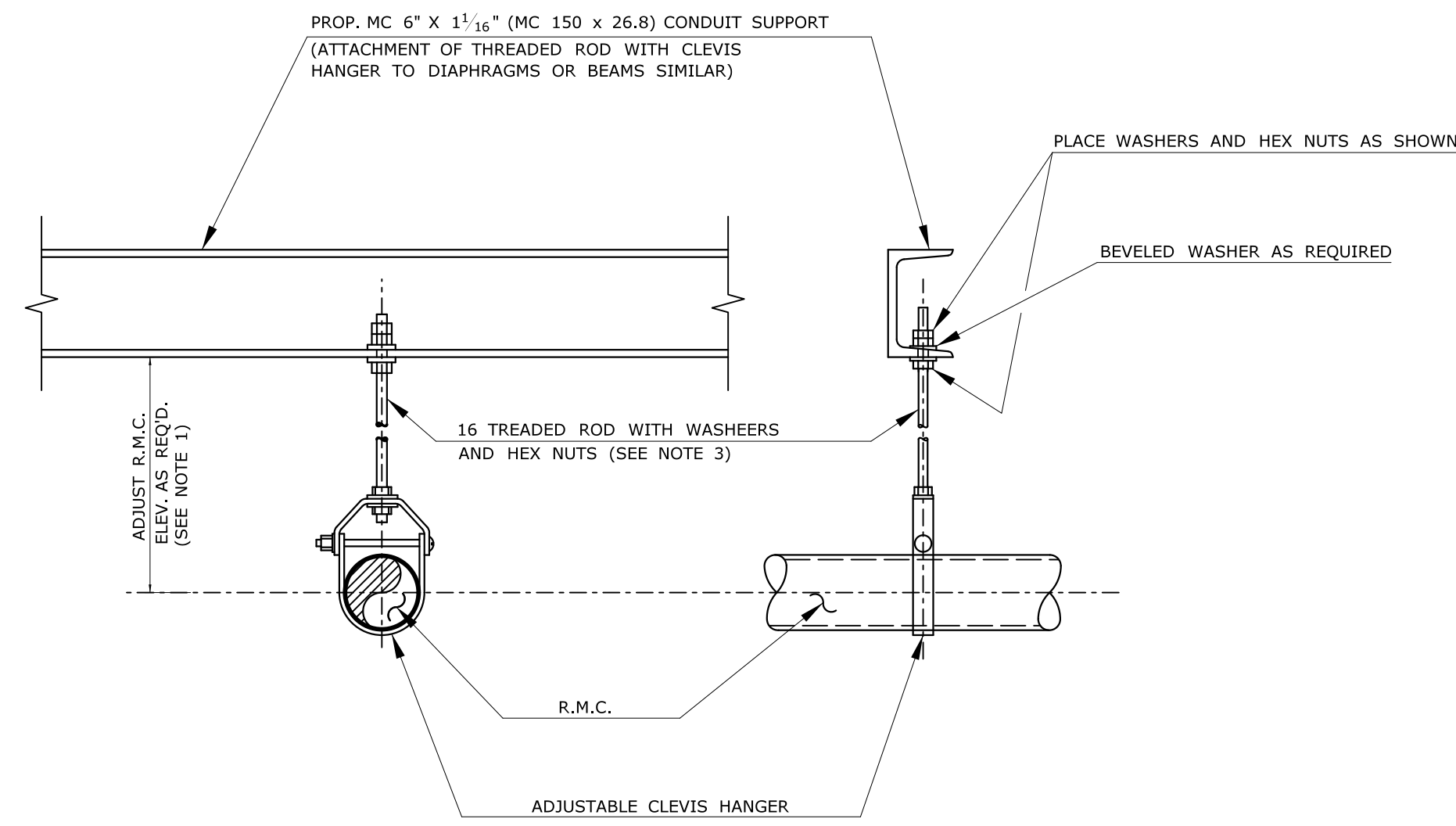
ONE HOLE CLAMP & FIELD FASTENER DETAILS
NOT TO SCALE



SECTION 1



CHANNEL CONDUIT SUPPORT DETAIL
NOT TO SCALE



CLEVIS HANGER DETAIL
NOT TO SCALE

WALL PENETRATION NOTES:

1. CONTRACTOR SHALL USE NECESSARY MEANS, SUCH AS A PACHOMETER, TO DETERMINE THE LOCATION OF REINFORCING STEEL IN EXISTING WALL IN ORDER TO PLACE CORE IN LOCATION TO MINIMIZE AMOUNT OF REINFORCING STEEL CUT
2. USE EPOXY SEALANT TO SEAL GAP BETWEEN STEEL PIPE SLEEVE AND FIBERGLASS CONDUIT. CONTRACTOR SHALL SUBMIT DETAILS OF SEALANT TO ENGINEER FOR APPROVAL.

CHANNEL CONDUIT SUPPORT NOTES:

1. MOUNT CONDUIT & CLEVIS HANGER ABOVE BOTTOM OF BEAMS (U.N.O.).
2. SEE "R.M.C. - IN STRUCTURE" DETAILS FOR ADD'L. INFORMATION.
3. FIELD DRILL 3/4" (19) DIA. HOLES IN FLANGES OF DIAPHRAGMS OR BEAMS.

CLEVIS HANGER NOTES:

1. CLEVIS HANGERS SHALL BE AS SHOWN AND AS MANUFACTURED BY ITT GRINNELL CO., FIG. 260 OR APPROVED EQUAL. THE CLEVIS, INCLUDING ALL HARDWARE, THREADED RODS AND NUTS SHALL BE GALVANIZED. THE THREADED RODS SHALL BE A MINIMUM OF 5/8" (16) IN DIAMETER.
2. CLEVIS HANGER SPACING: SPACE CLEVIS HANGER WITH THREADED ROD ATTACHED TO EITHER PROPOSED CHANNEL CONDUIT SUPPORT OR EXIST. STRUCTURAL STEEL AT 15' (4.5 m) O.C. MAXIMUM.
3. FIELD DRILL 3/4" (19) DIA. HOLES IN FLANGES OF DIAPHRAGMS OR BEAMS.

FIELD FASTENER NOTES:

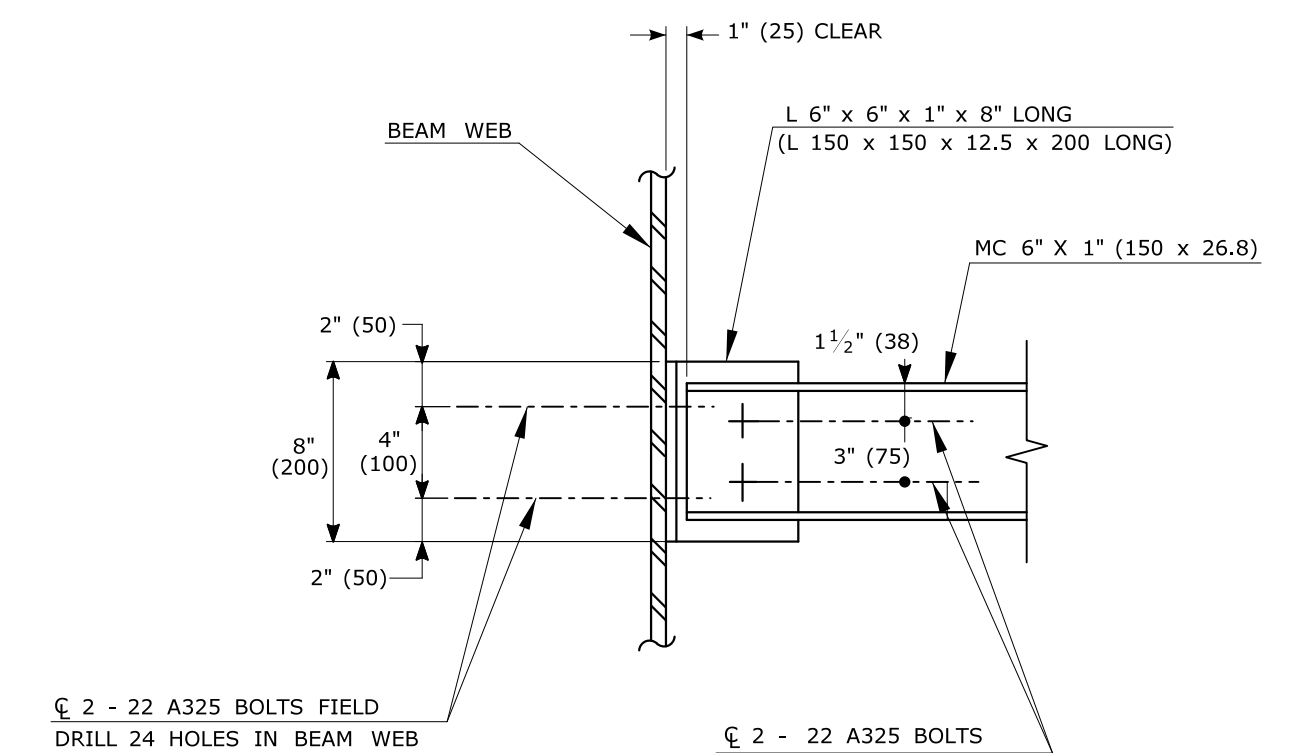
CONDUIT SUPPORTS SHALL BE ATTACHED TO THE EXISTING STRUCTURES UTILIZING ONE OF THE FOLLOWING METHODS AS APPROVED BY THE ENGINEER:

1. FIELD DRILL HOLES IN CONCRETE STRUCTURES. HOLE DIAMETER & ANCHOR DEPTH FOR THE CHEMICAL ANCHORAGE TO BE IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
2. CHEMICAL ANCHORS - SYSTEM APPROVED BY CONN. D.O.T. WITH THREADED RODS, ANCHOR BOLTS, NUTS AND WASHERS SHALL BE STAINLESS STEEL.
3. ONE HOLE CLAMP SHALL BE MALLEABLE IRON CONDUIT CLAMP AS SHOWN AND AS MANUFACTURED BY ITT GRINNELL CO., FIG. 126, OR APPROVED EQUAL. THE CLAMP SHALL BE GALVANIZED.
4. SPACE CLAMPS AT 60" (1500) MAXIMUM.

ANCHORS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A193(M), CLASS 2, GRADE B8M (TYPE 316).

NUTS SHALL BE NYLON INSERT LOCK NUTS AND CONFORM TO ASTM A194(M), GRADE 8M, STRAIN HARDENED (TYPE 316).

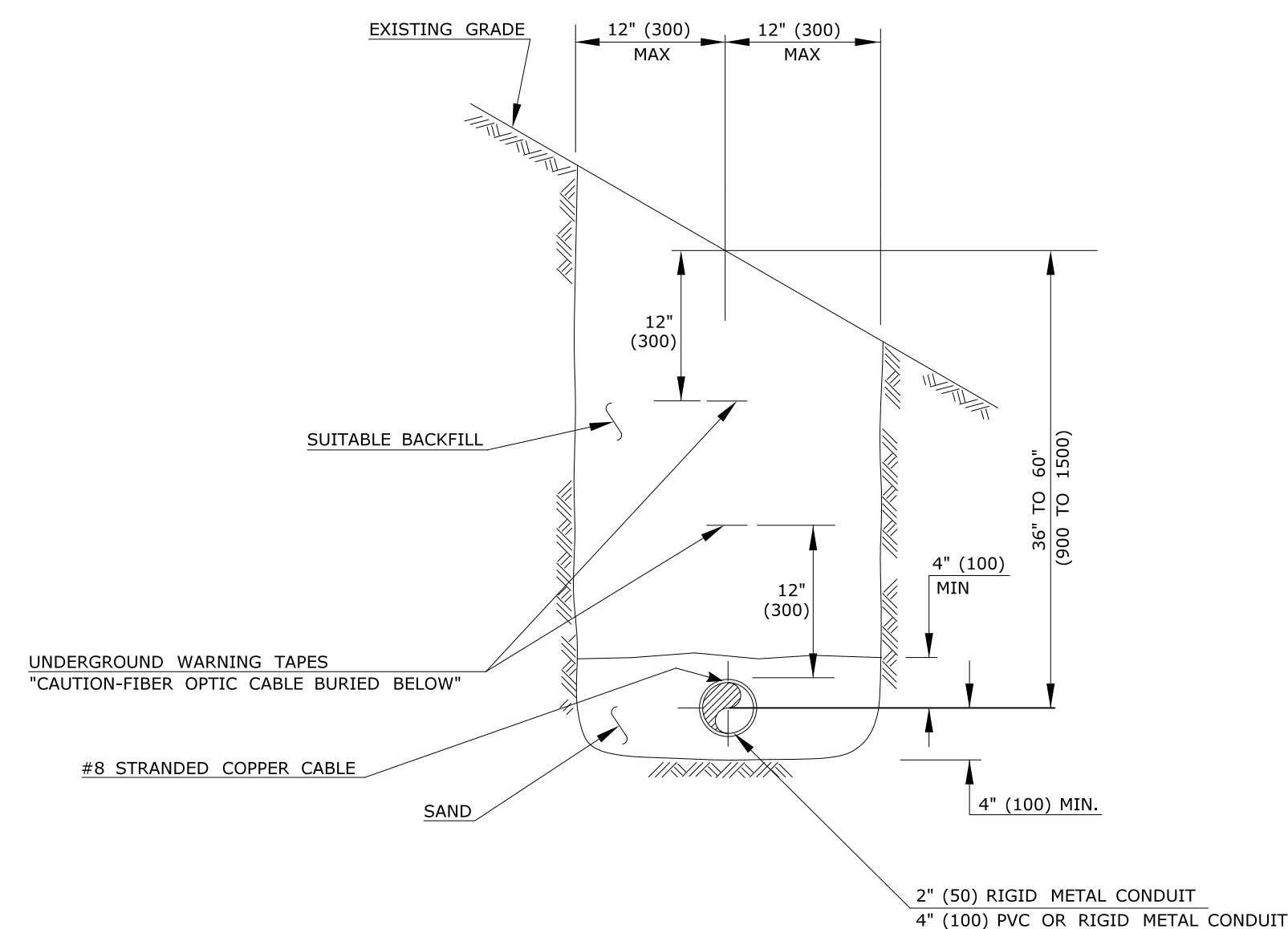
WASHERS SHALL CONFORM TO ASTM A276(M), TYPE316, ANNEALED.



CHANNEL CONDUIT SUPPORT CONNECTION DETAIL
NOT TO SCALE

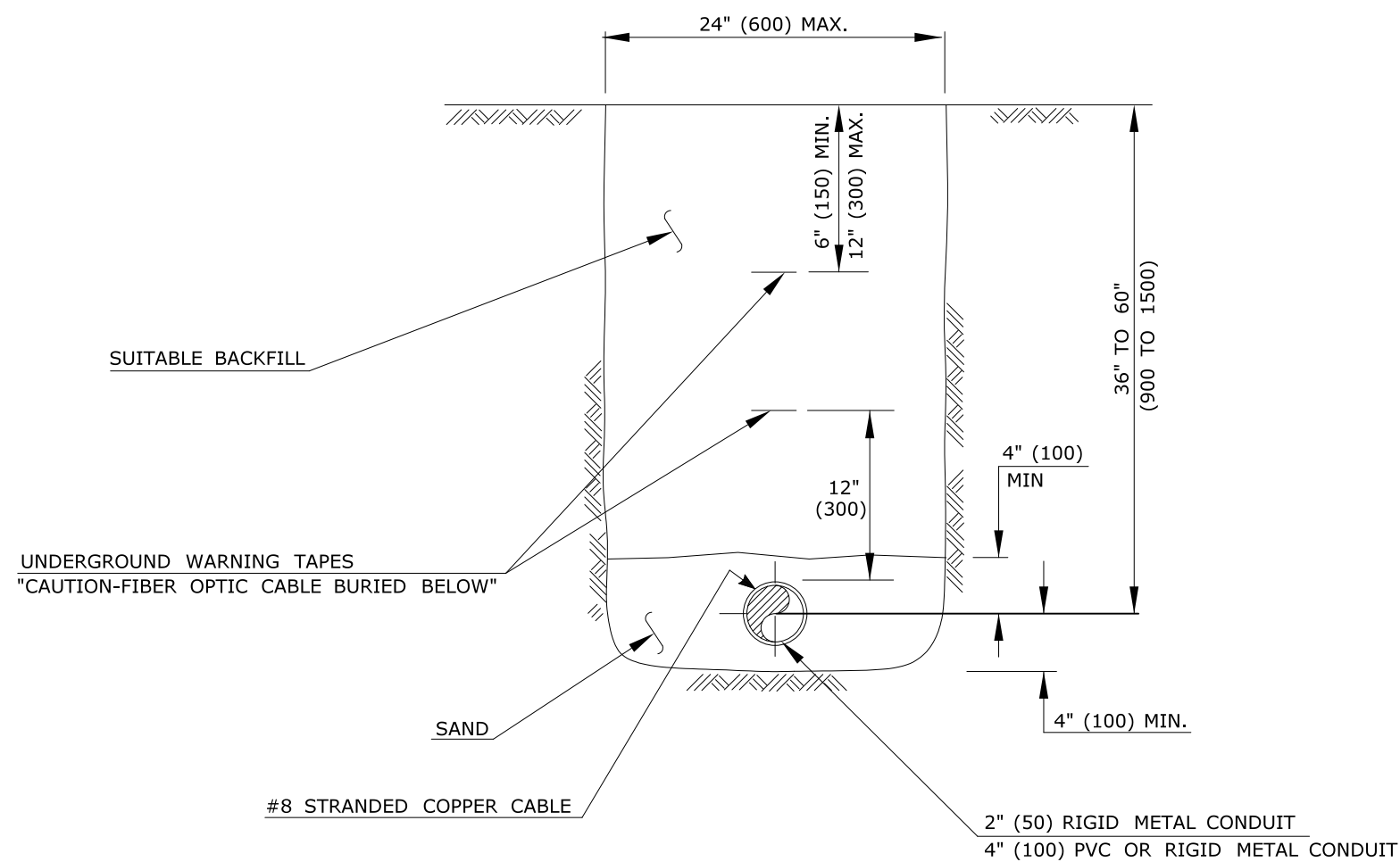
FINAL DESIGN REVIEW

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REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 3/15/2021	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...\\ID-XX-IMS-CTDOT-STANDARD DTLS.dgn	FILENAME: ...\\ID-XX-IMS-CTDOT-STANDARD DTLS.dgn		DRAWING TITLE: RMC EXPANSION FITTING, WALL PENETRATION, CHANNEL CONDUIT SUPPORT CONNECTION, ONE HOLE CLAMP & FIELD FASTNER, CLEVIS HANGER DETAILS	DRAWING NO. ID-04	SHEET NO.	

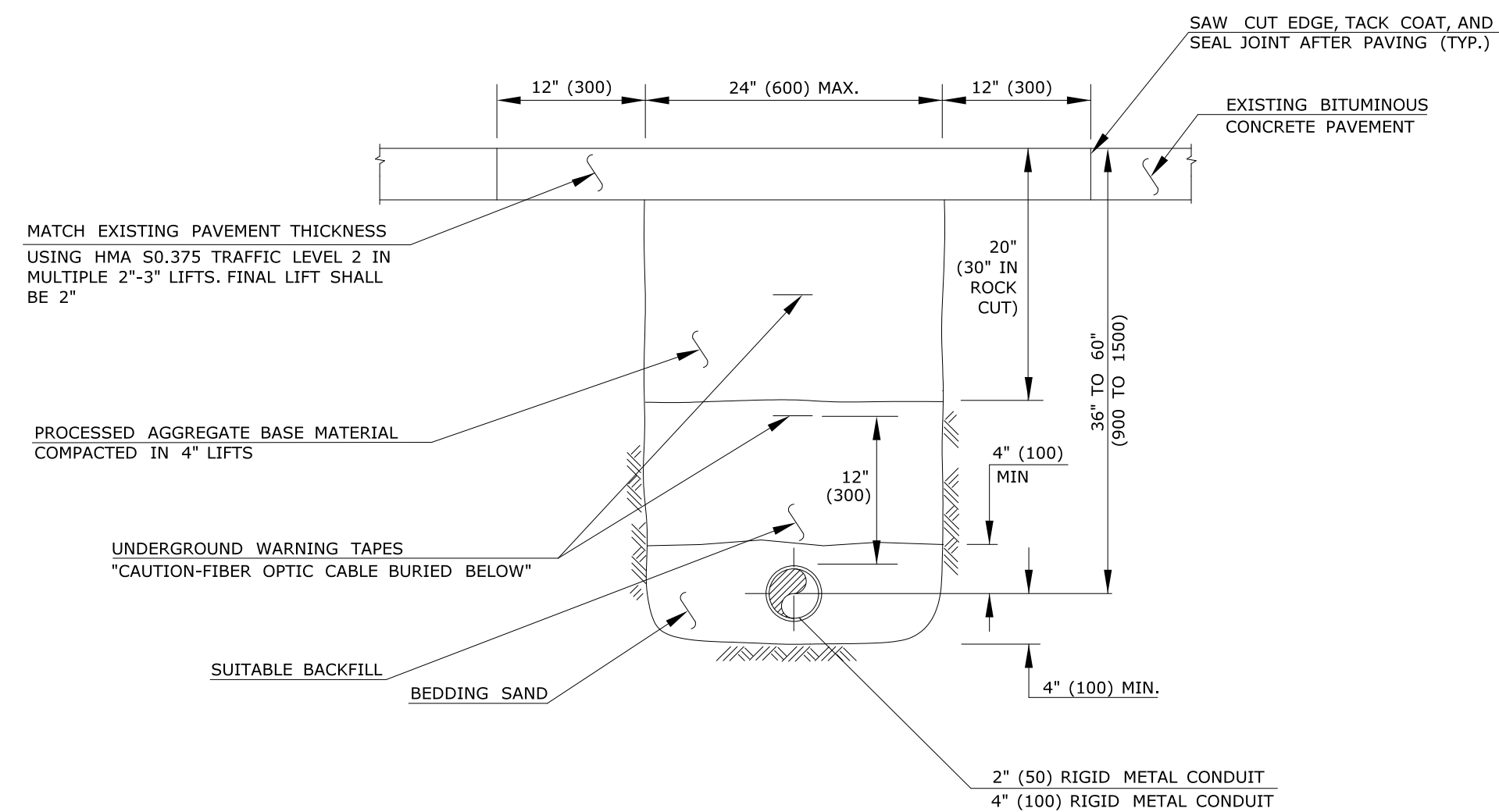


CONDUIT IN SLOPED EARTH

NOTE: IN SLOPES STEEPER THAN 1:2, CONDUIT SHALL HAVE A MINIMUM COVER OF 24" (600) PERPENDICULAR TO THE SLOPE.

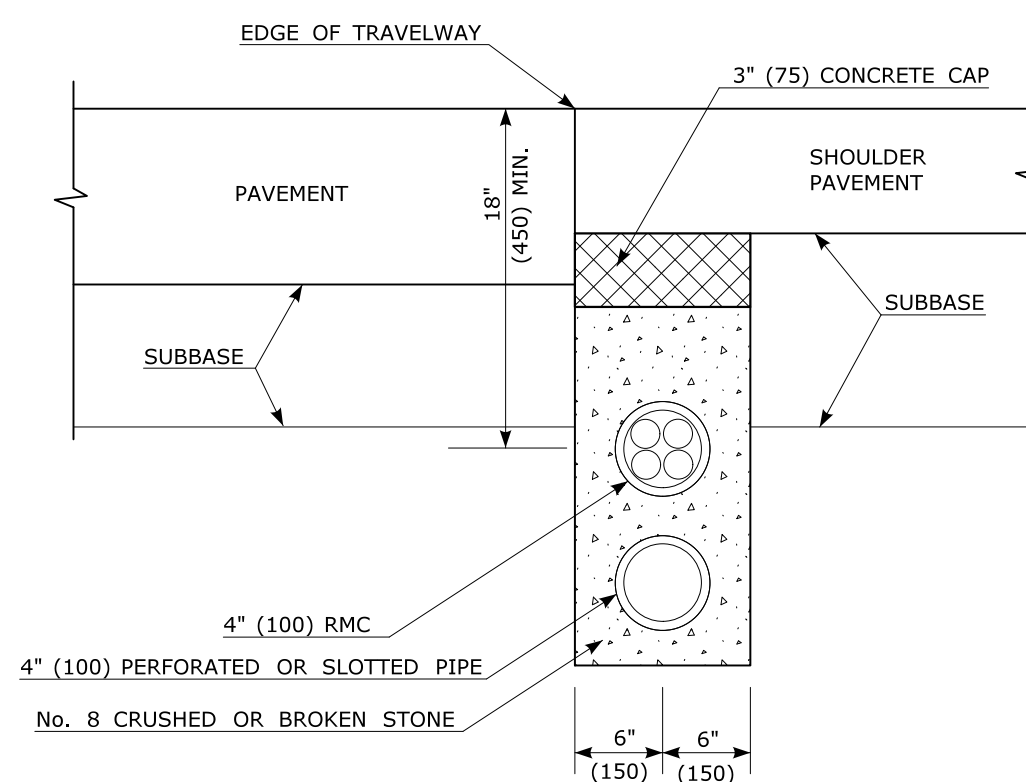


CONDUIT IN LEVEL EARTH

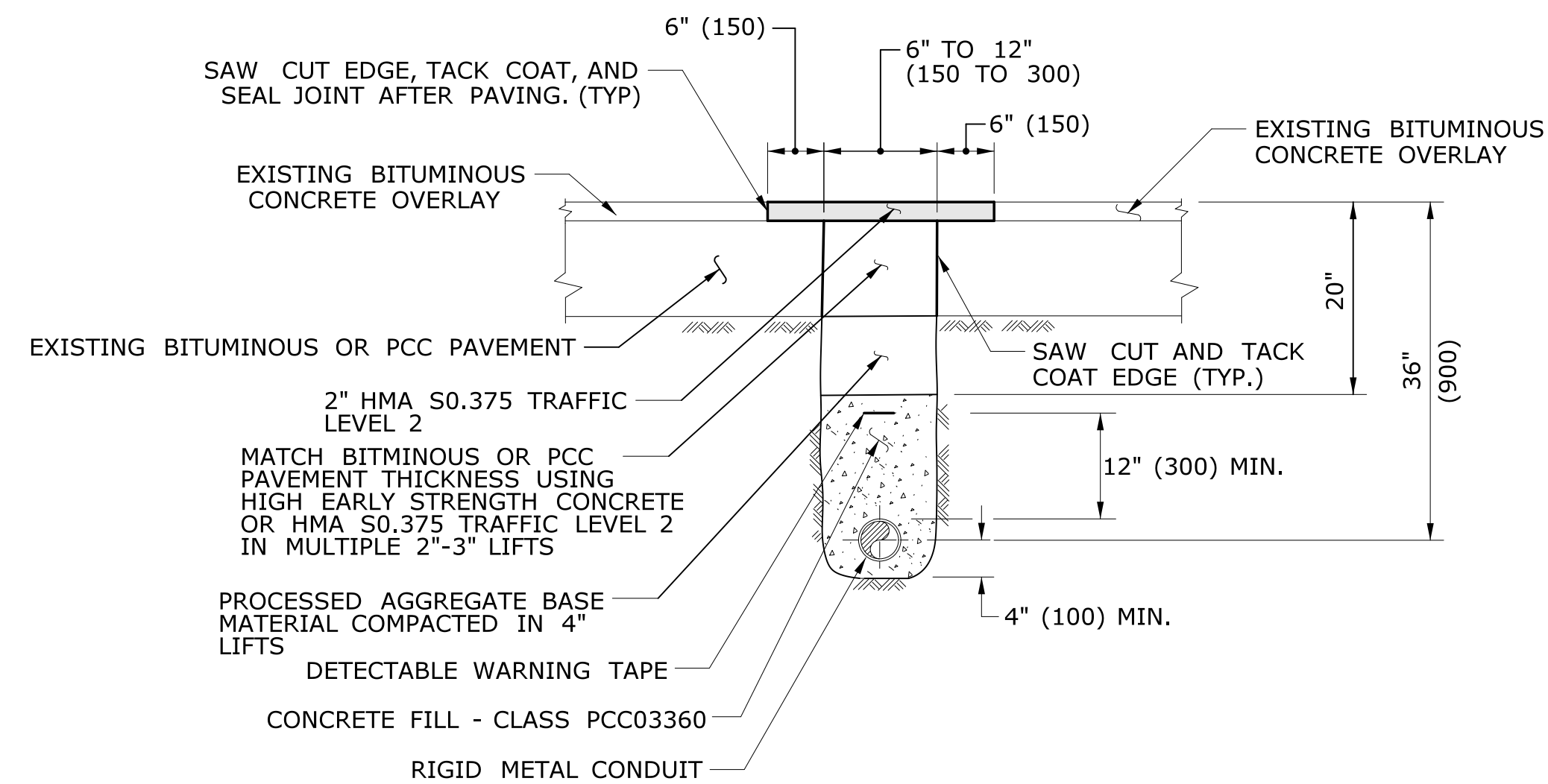


R.M.C. UNDER BITUMINOUS CONCRETE PAVEMENT

NOTE: 1. THE MINIMUM COMPACTED PAVEMENT THICKNESS SHALL BE 6".

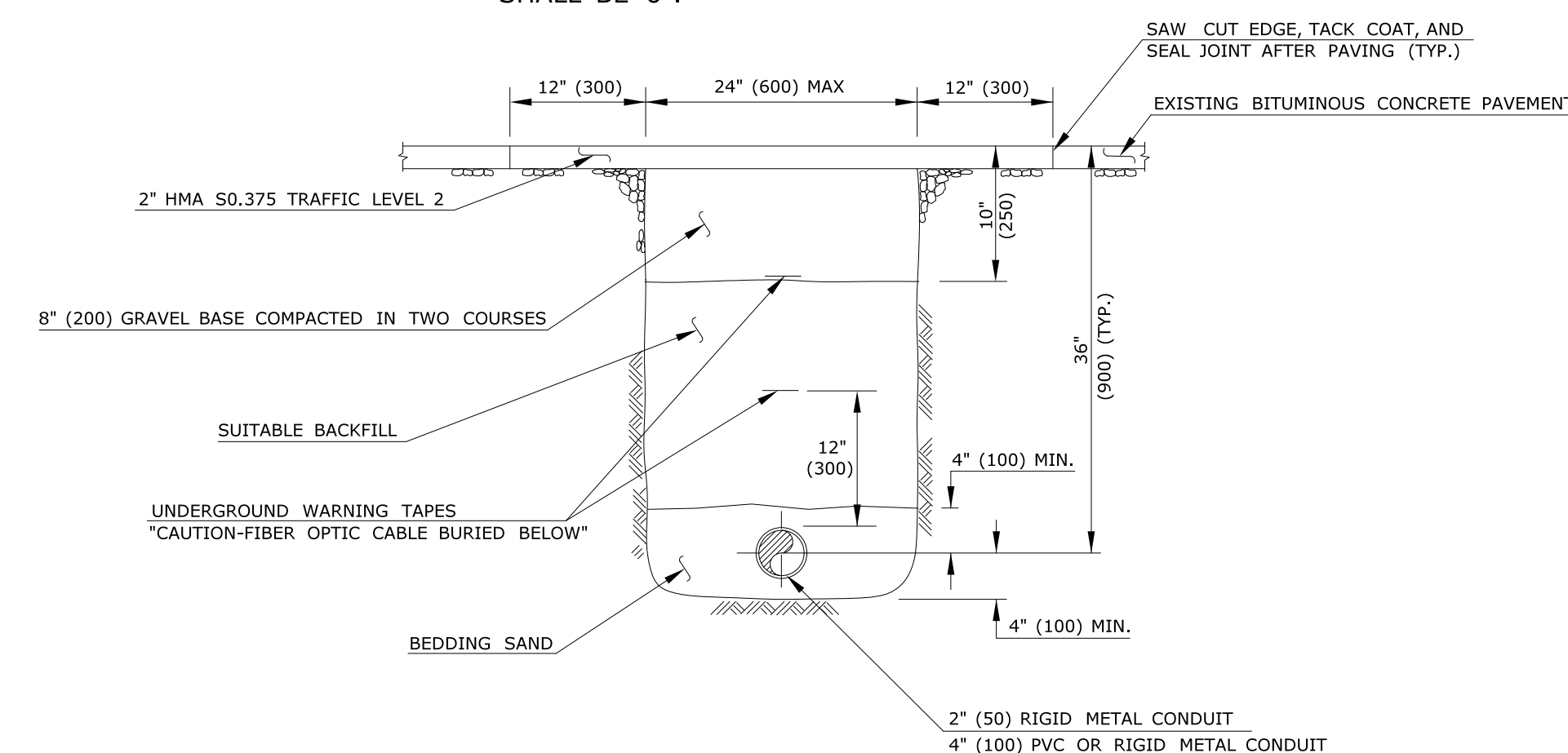


TYPICAL CONDUIT INSTALLATION IN AREAS OF PAVEMENT EDGE DRAIN OR UNDERDRAIN

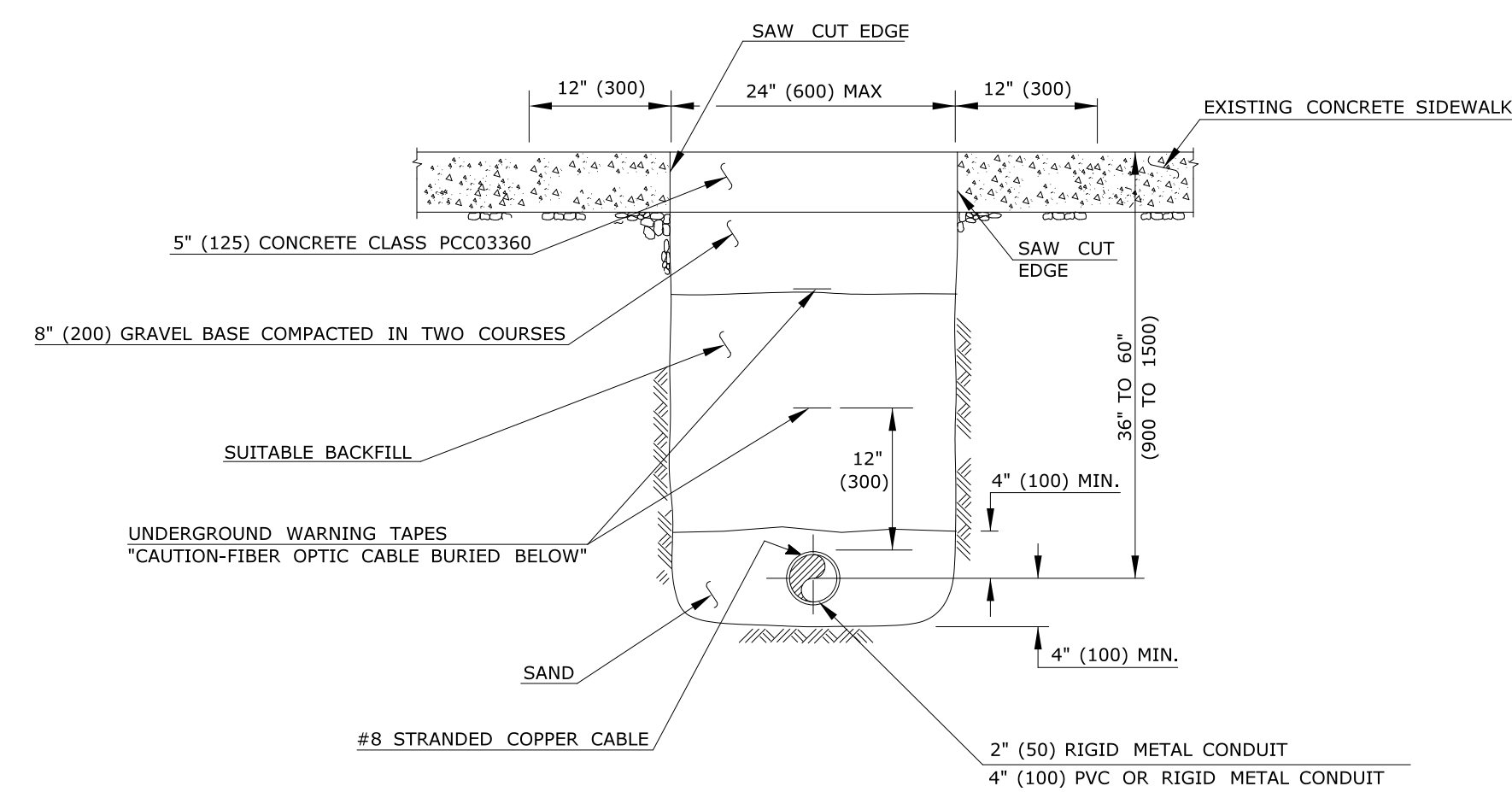


PAVEMENT - BITUMINOUS CONCRETE OR OVERLAYED PORTLAND CEMENT CONCRETE

NOTE: 1. THE MINIMUM COMPACTED PAVEMENT THICKNESS SHALL BE 6".



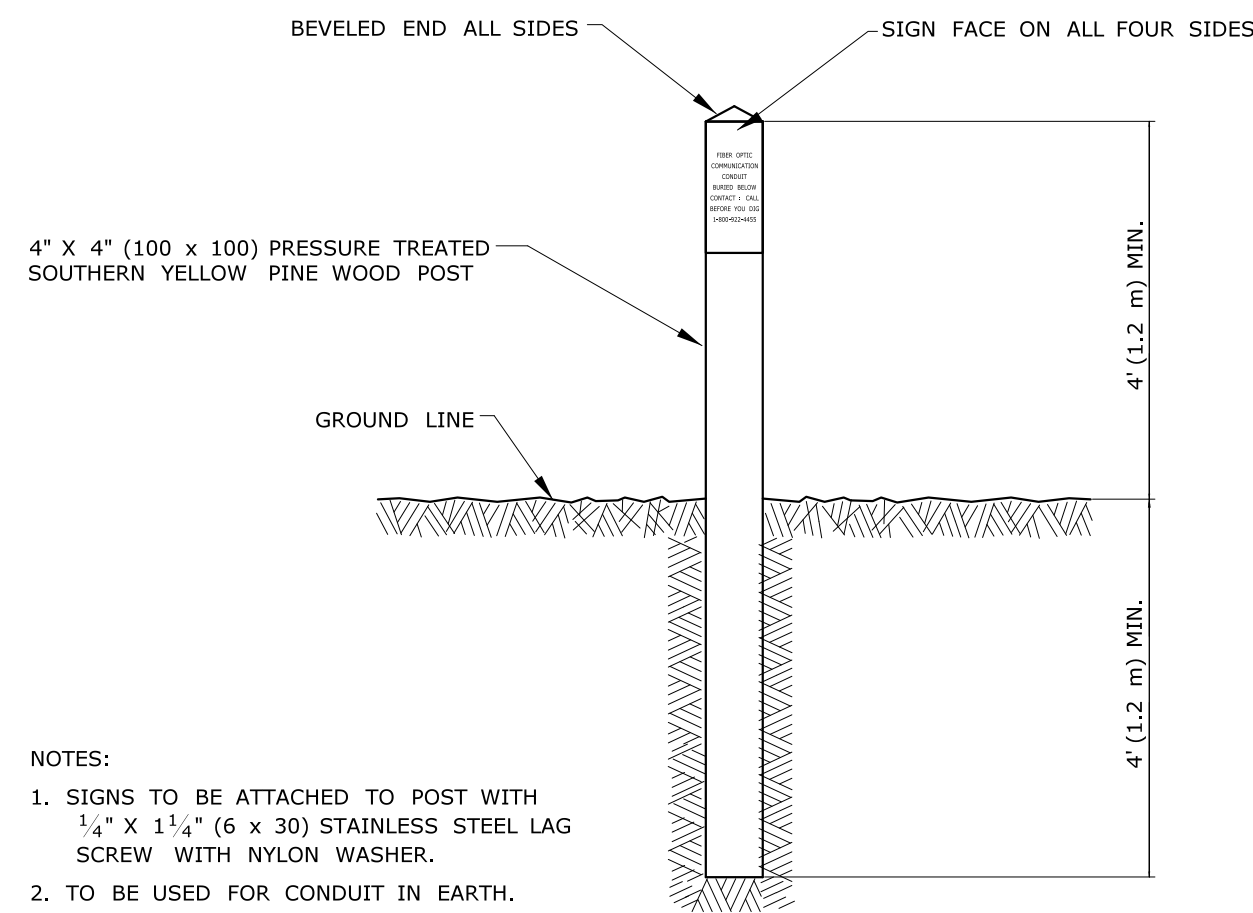
R.M.C. UNDER BITUMINOUS CONCRETE SIDEWALK OR DRIVEWAY



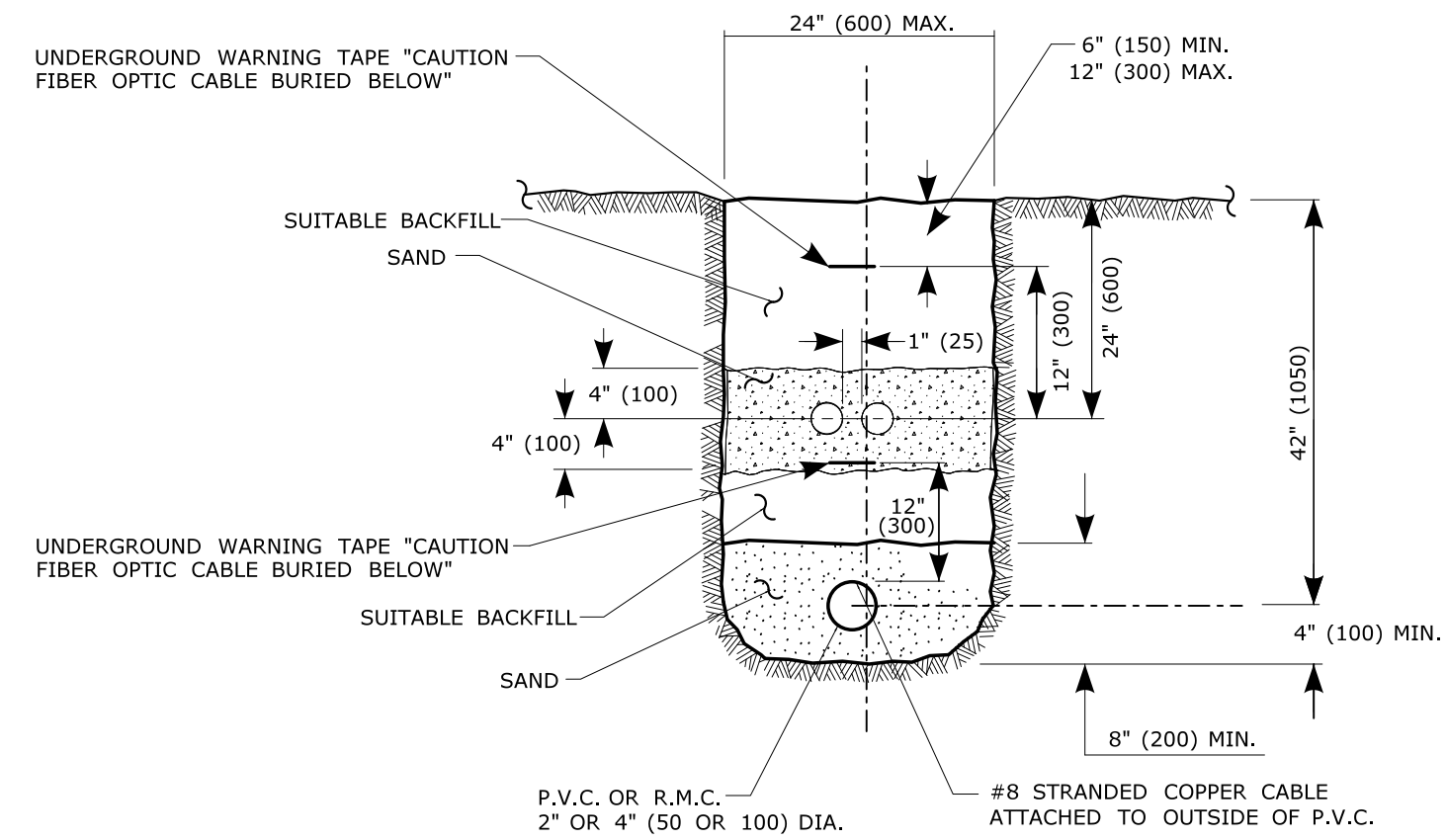
CONDUIT UNDER CONCRETE SIDEWALK

FINAL DESIGN REVIEW

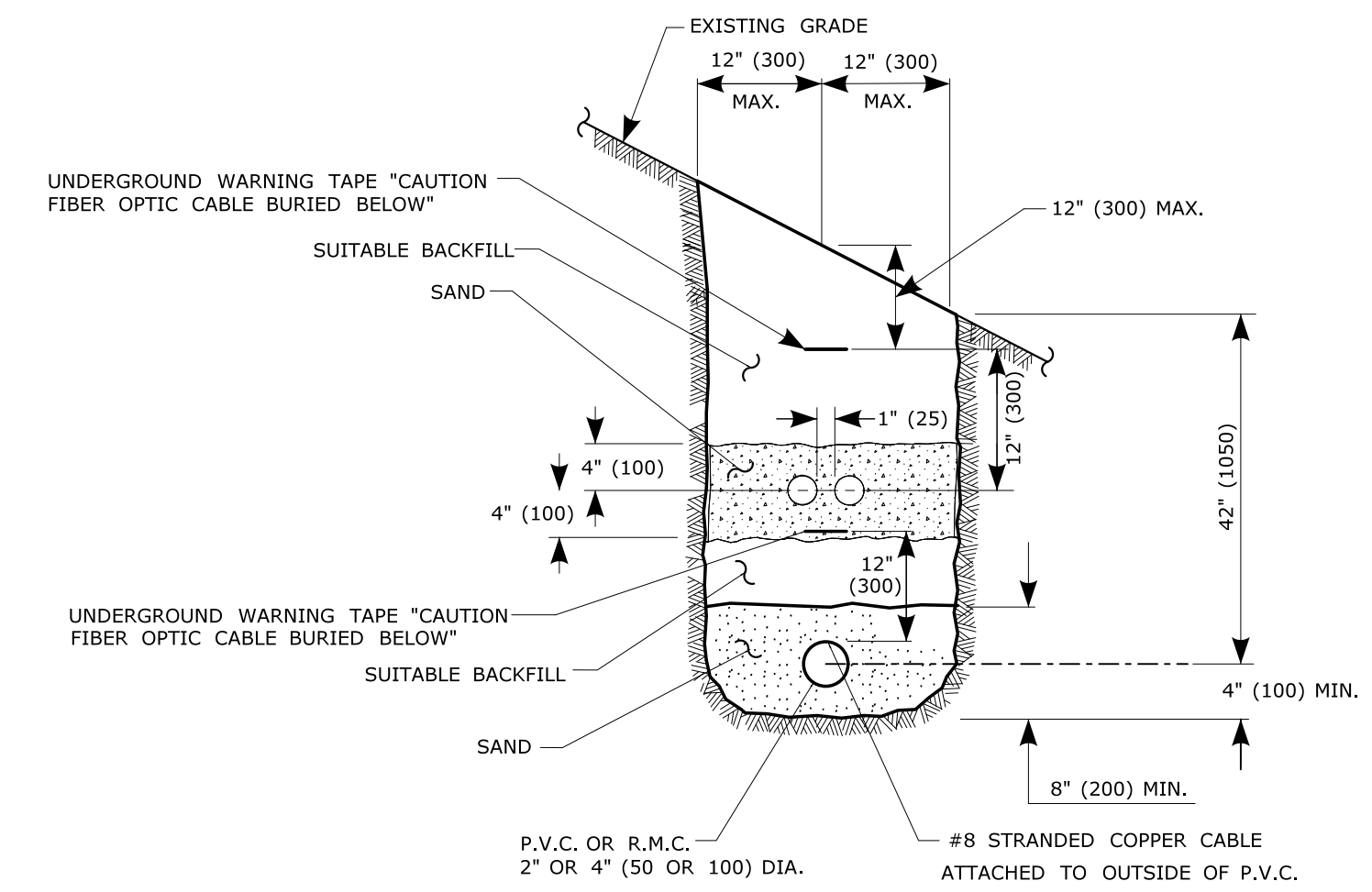
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REV. DATE REVISION DESCRIPTION SHEET NO. Plotted Date: 3/15/2021			Filename: ...ID-XX-IMS-CTDOT-STANDARD DTLS.dgn		INCIDENT MANAGEMENT SYSTEM INSTALLATION ALONG ROUTE 9 AND ROUTE 72	DRAWING TITLE: IMS TRENCHING DETAILS	DRAWING NO. ID-05 SHEET NO.



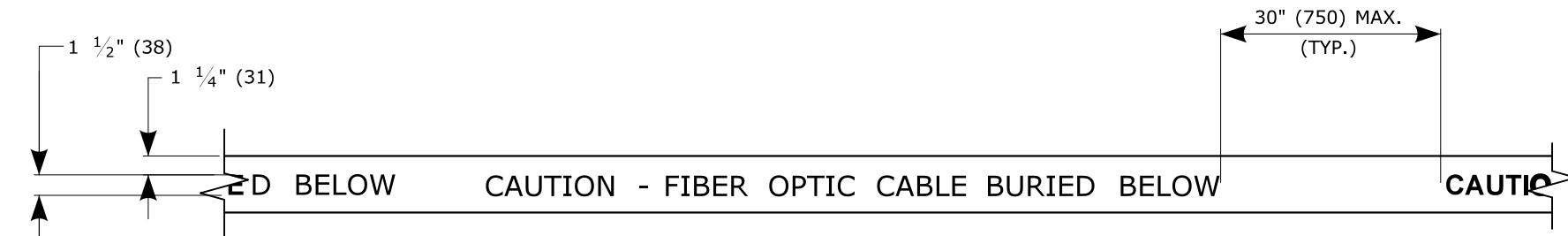
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CONDUIT IN LEVEL EARTH

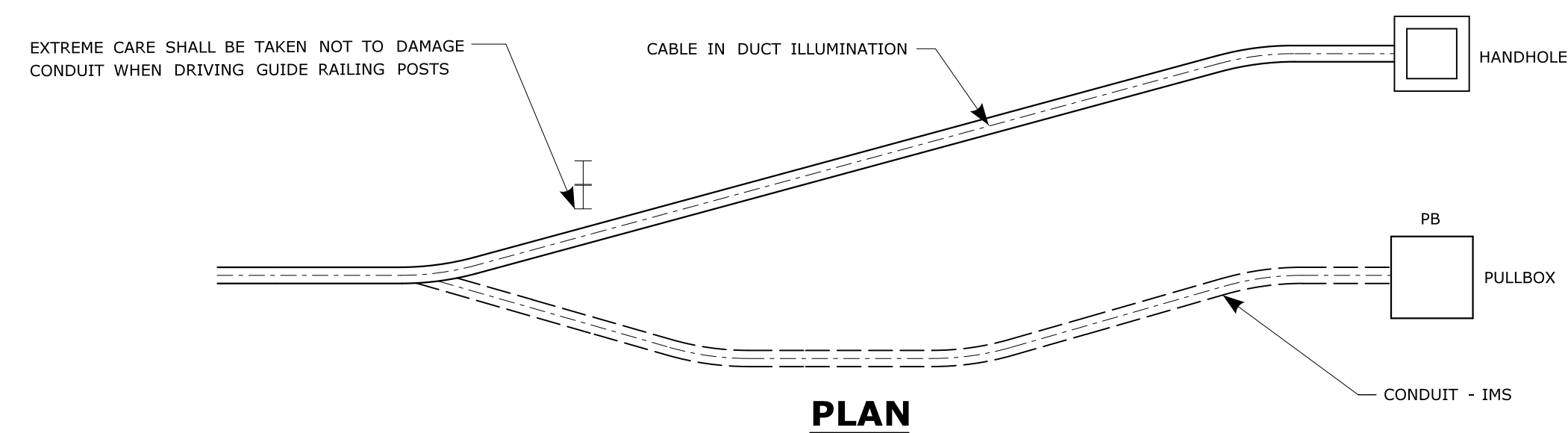


CONDUIT IN SLOPED EARTH



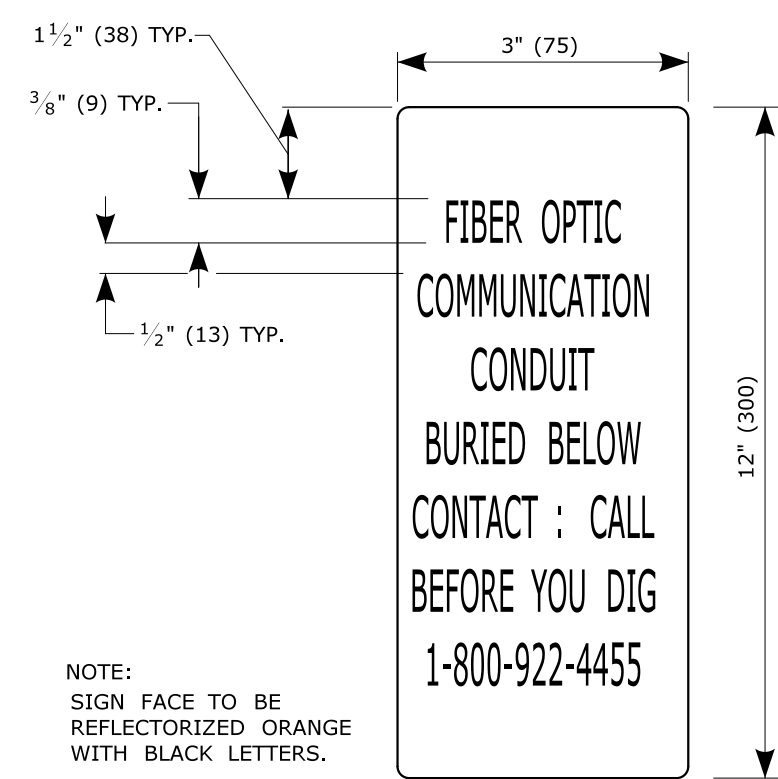
WARNING TAPE

IMS CONDUIT UNDER ILLUMINATION TRENCHING DETAILS

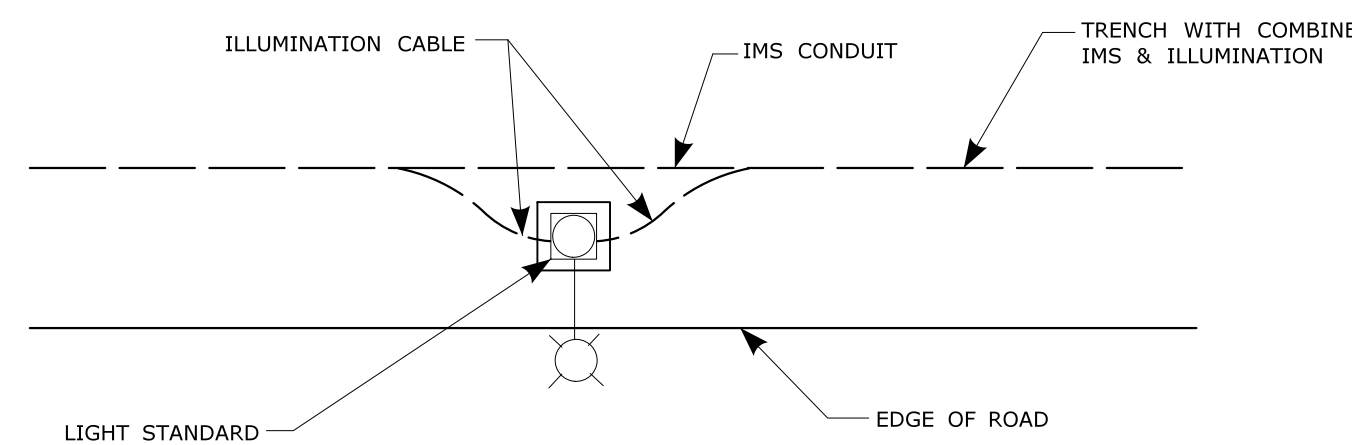


PLAN

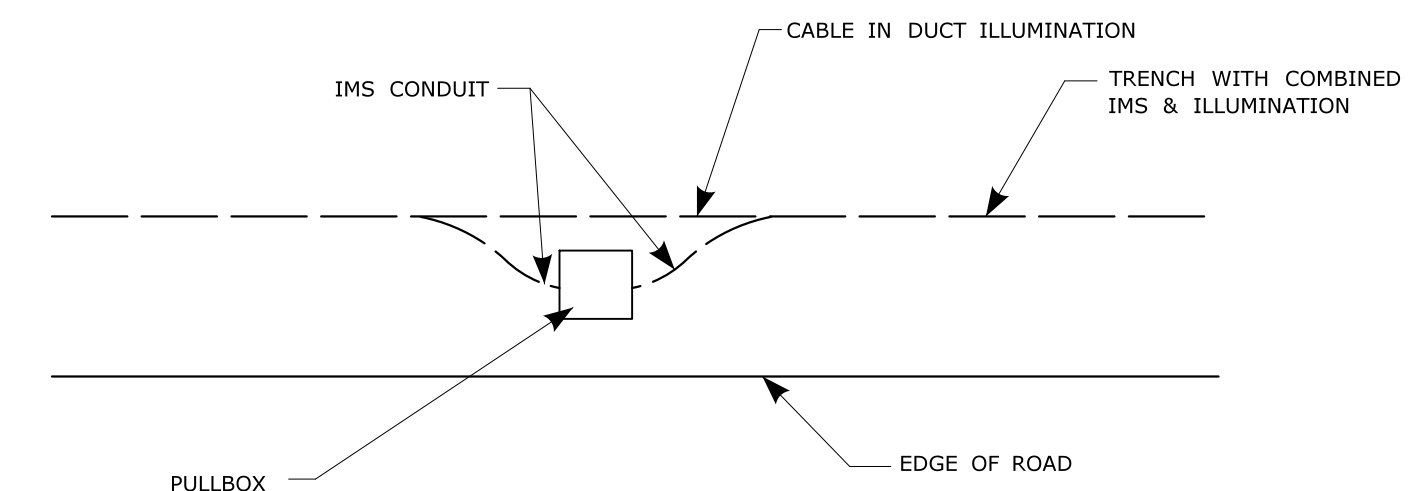
IMS CONDUIT & ILLUMINATION CABLE IN DUCT IN TRENCH WHERE SEPARATED AT RAMP CROSSINGS AND BRIDGE STRUCTURES (TYP.)



SIGN FACE DETAIL



AT LIGHT STANDARD

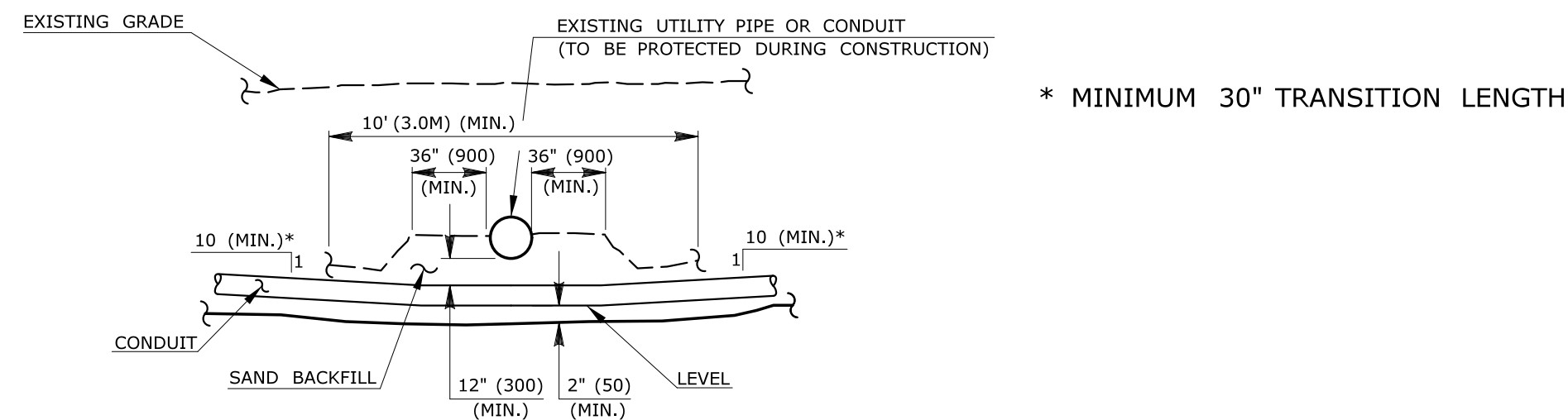


AT PULL BOX

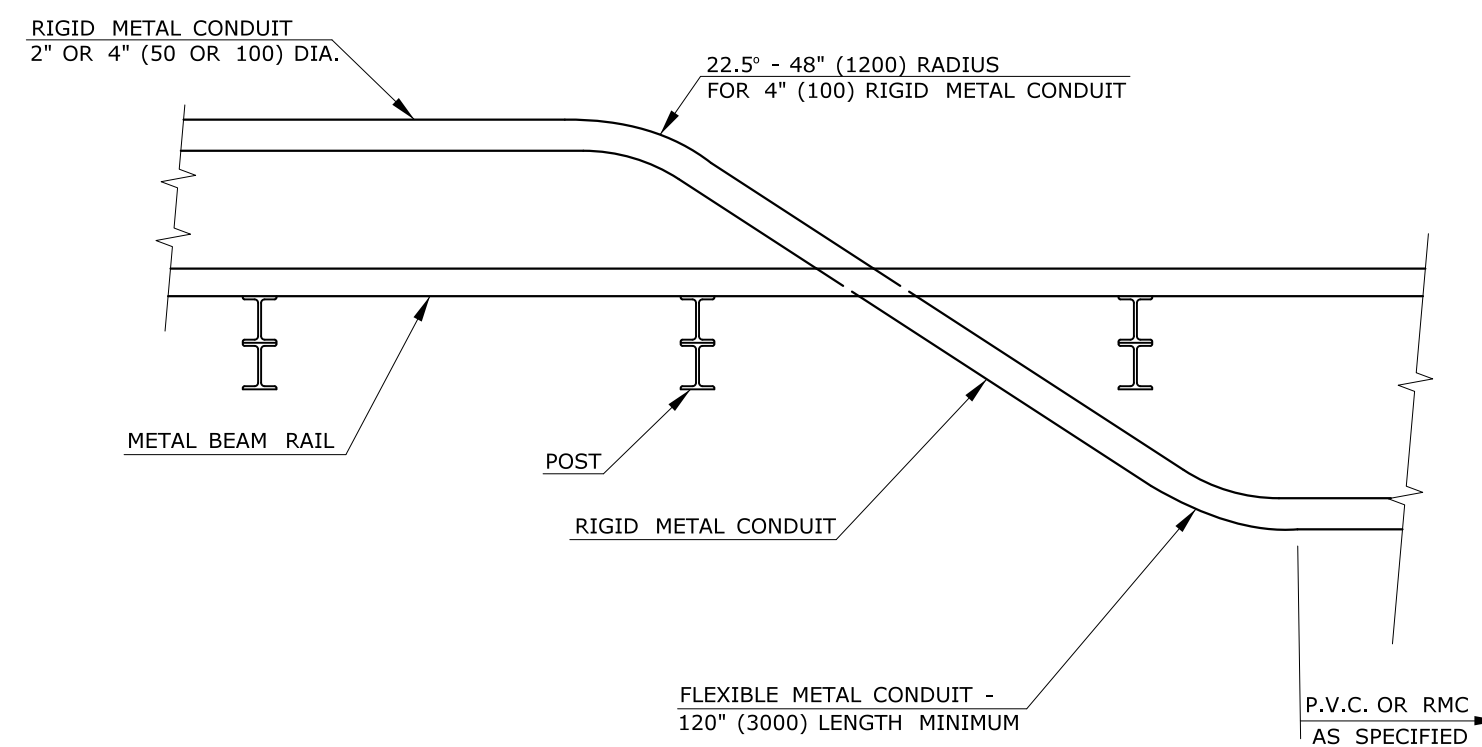
TYPICAL TRENCH DETAILS FOR IMS CONDUIT

FINAL DESIGN REVIEW

DESIGNER/DRAFTER: D.K. SWINBURNE		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK:	PROJECT TITLE: INCIDENT MANAGEMENT SYSTEM INSTALLATIONS ALONG ROUTE 9 AND ROUTE 72	TOWN: FARMINGTON TO CROMWELL	PROJECT NO. 171-415/416
CHECKED BY: R.A. KENNEDY					DRAWING TITLE: IDENTIFICATION POST AND IMS WITH ILLUMINATION DETAILS	DRAWING NO. ID-06
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/15/2021	SCALE IN FEET 0 20 40 SCALE 1"=20'	

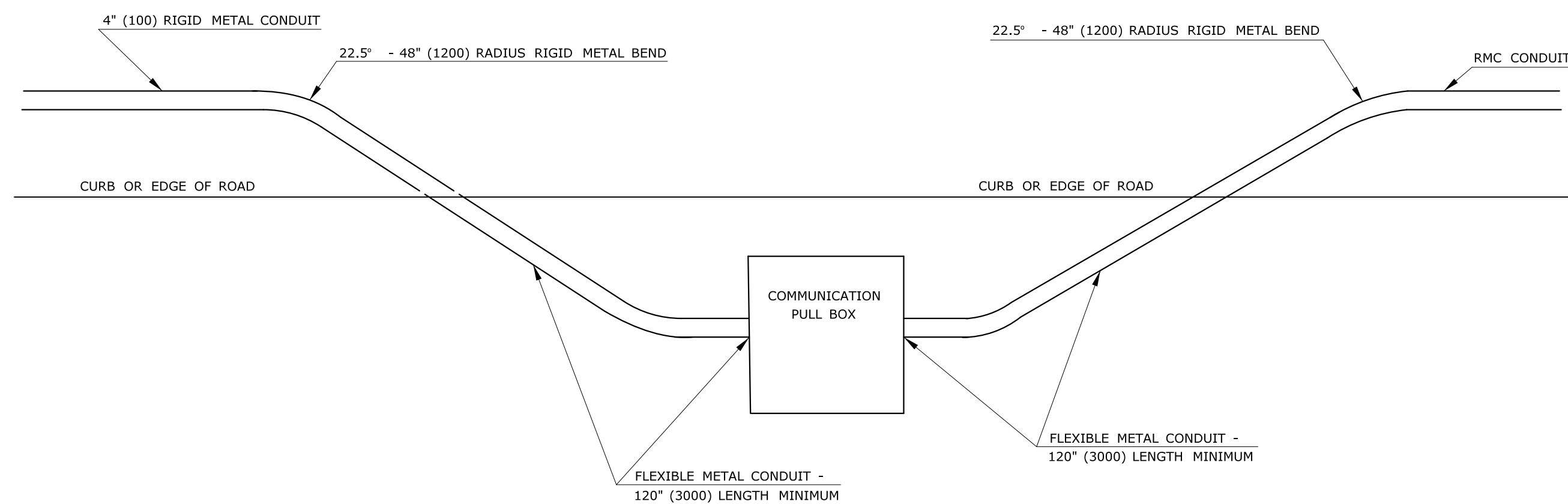


CONDUIT CROSSING UNDER EXISTING UTILITY OR DRAINAGE PIPE



NOTES:
 CONTRACTOR TO RESTORE AREAS DISTURBED BY TRENCH TO ORIGINAL CONDITION.
 CONTRACTOR SHALL INSTALL CONDUIT AT A MINIMUM DEPTH OF 40" (1000).
 CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT CONDUIT WILL NOT CONFLICT WITH UNDERGROUND UTILITIES.

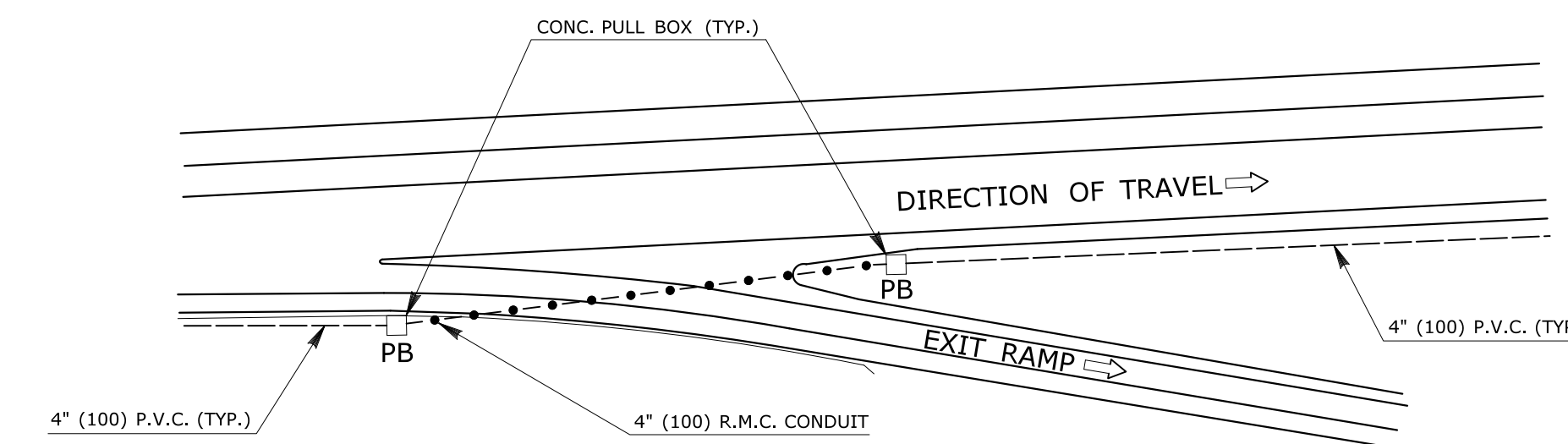
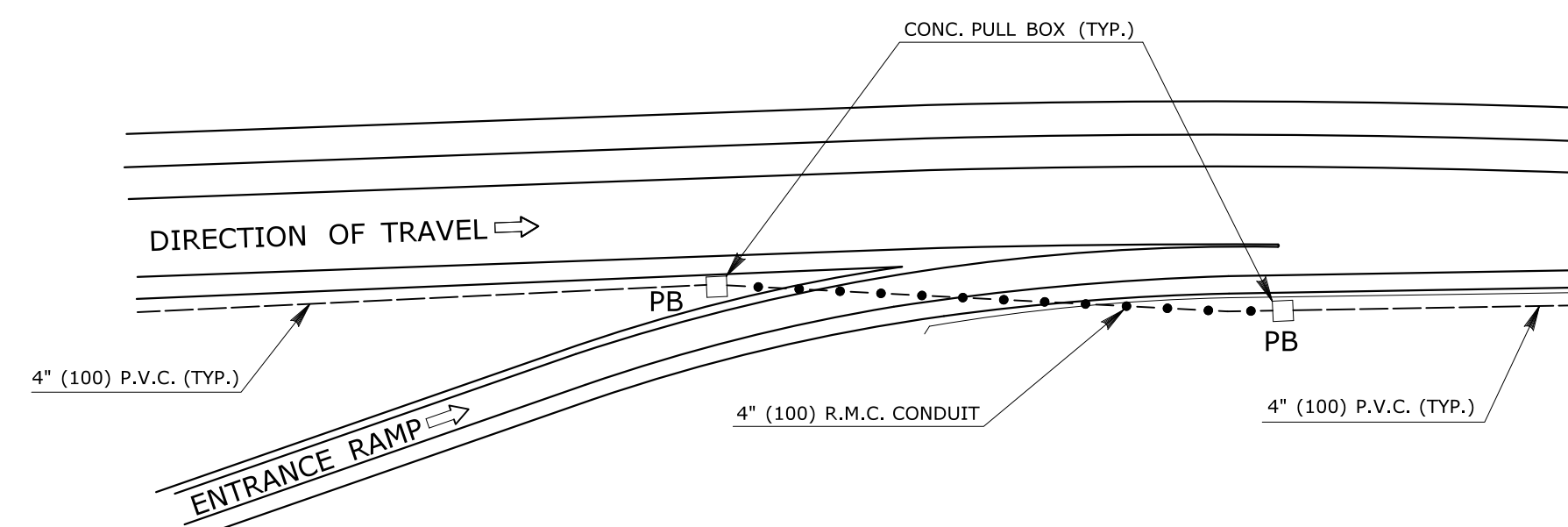
TYPICAL GUIDE RAIL CROSSING



NOTES:
 THE CONTRACTOR SHALL BE REQUIRED TO INSTALL A MINIMUM OF 120" (3000) OF FLEXIBLE CONDUIT ON EACH SIDE OF THE PULL BOX. THIS IS REQUIRED TO INSURE THAT THE INNERDUCTS ENTERING AND EXITING THE PULL BOX WILL LINE UP AND BE PERPENDICULAR TO THE SIDEWALL OF THE PULL BOX.

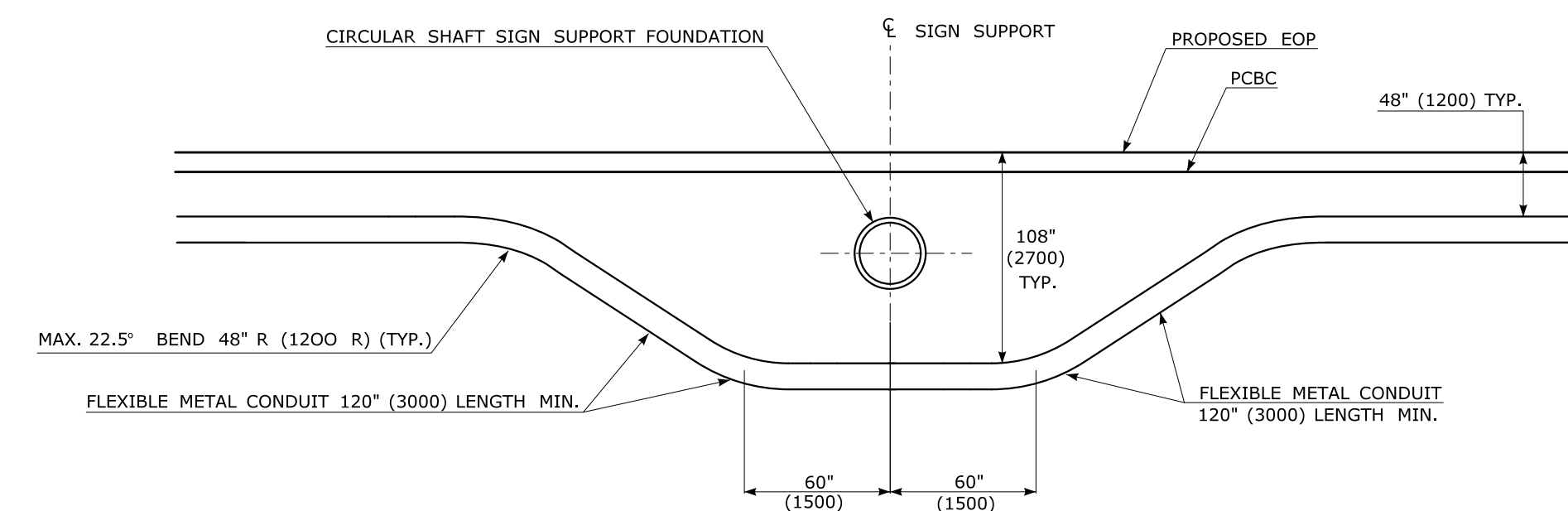
THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT THE RADIUS OF THE INSTALLED FLEXIBLE METAL PIPE IS GREATER THAN THE MINIMUM ALLOWED FOR THE FIBER OPTIC CABLE.

TYPICAL PULL BOX INSTALLATION - CONDUIT UNDER ROADWAY



NOTES:
 PULL BOXES SHALL BE INSTALLED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 PULL BOXES SHALL BE ORIENTED TO PROVIDE THE STRAIGHTEST POSSIBLE PULL IN THE CABLE.

TYPICAL RAMP CROSSING



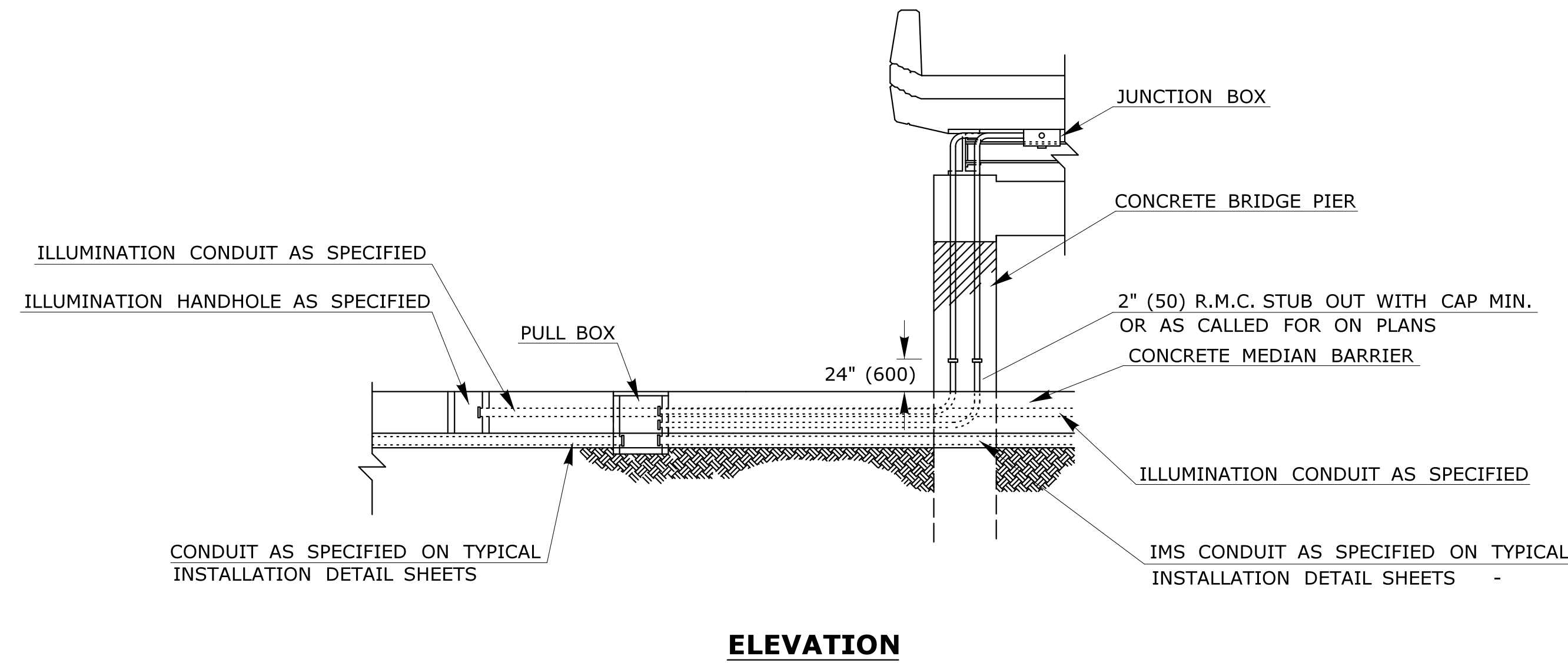
4" (100) CONDUIT TREATMENT AT SIGN SUPPORT

FINAL DESIGN REVIEW

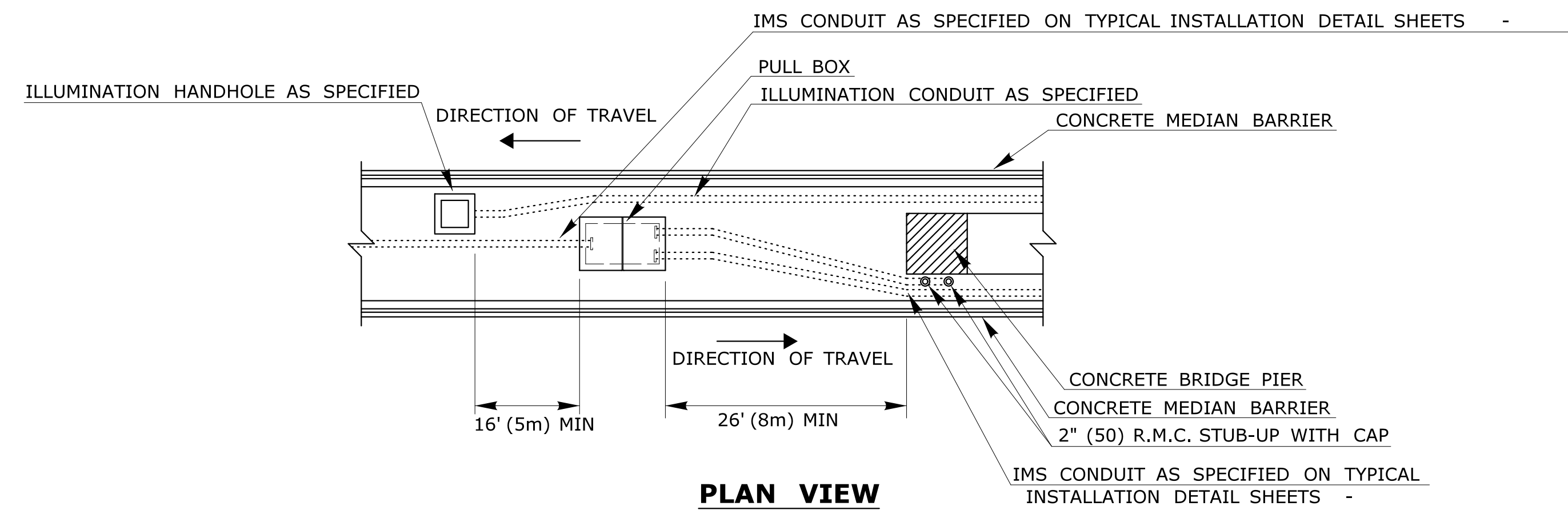
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		DESIGNER/DRAFTER: D.K. SWINBURNE CHECKED BY: R.A. KENNEDY SCALE IN FEET SCALE 1"=20'	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...ID-XX-IMS-CTDOT-STANDARD DTL5.dgn	SIGNATURE/ BLOCK:	PROJECT TITLE: INCIDENT MANAGEMENT SYSTEM INSTALLATIONS ALONG ROUTE 9 AND ROUTE 72	TOWN: FARMINGTON TO CROMWELL DRAWING TITLE: TYPICAL IMS CONDUIT CROSSING DETAILS	PROJECT NO. 171-415/416 DRAWING NO. ID-07 SHEET NO.	
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/15/2021				

NOTES:

1. THE DETAIL PROVIDED PRESENTS A TYPICAL MEDIAN CROSS-SECTION. FOR MORE DETAILS, REFER TO CIVIL DRAWINGS.
2. FOR DETAILS ON CONDUIT ATTACHMENT TO UNDERSIDE OF BRIDGE, REFER TO THE TYPICAL INSTALLATION DETAIL SHEETS

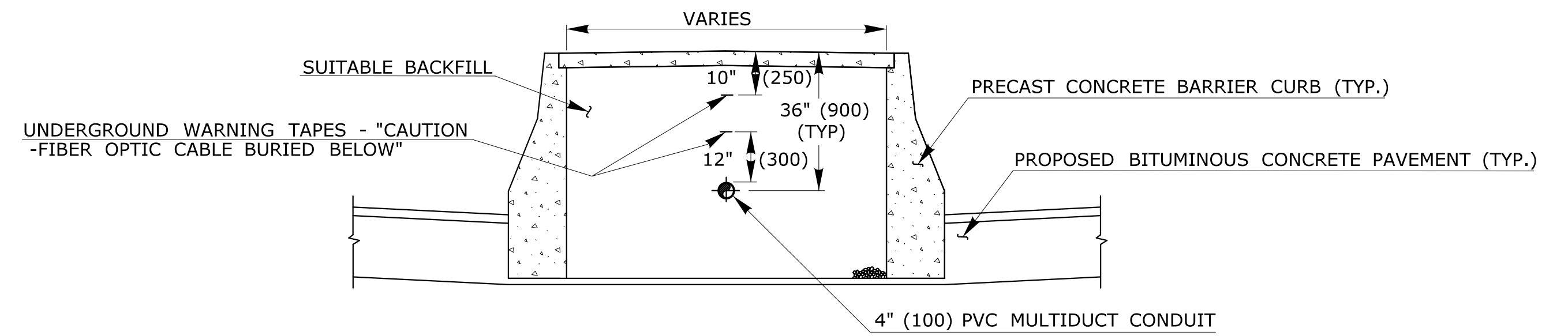


ELEVATION

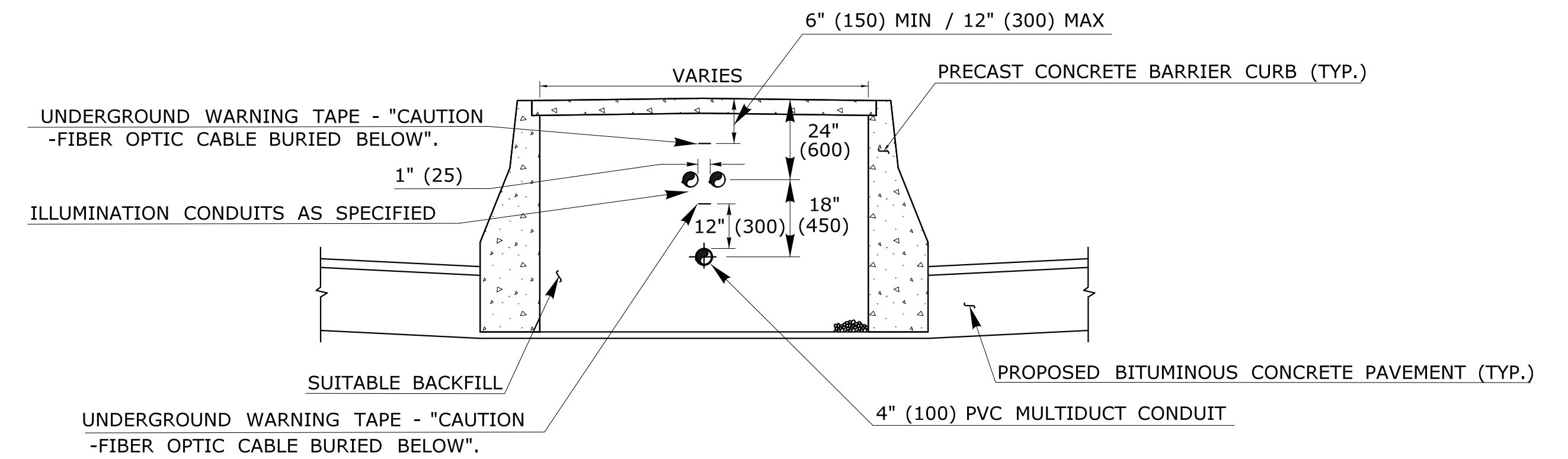


PLAN VIEW

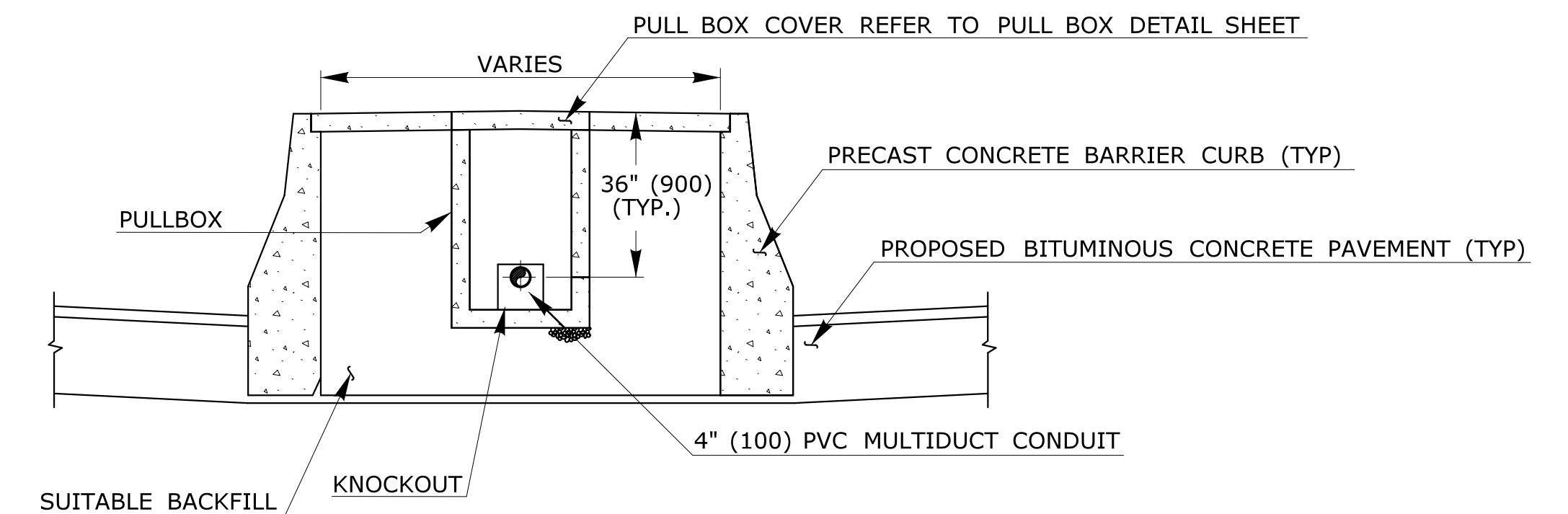
CONDUIT INSTALLATION ADJACENT TO BRIDGE PIER



4\" (100) P.V.C. INSTALLED IN MEDIAN
(TYPICAL SECTION)



4\" (100) P.V.C. INSTALLED IN MEDIAN WITH ILLUMINATION CONDUIT



P.V.C. AND PULL BOX INSTALLED IN MEDIAN
(TYPICAL SECTION)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER:
D.K. SWINBURNE

CHECKED BY:
R.A. KENNEDY

SCALE IN FEET
SCALE 11"=200'

0 SCALE 20' NOTED 40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING

APPROVED BY: DATE:

PROJECT TITLE:
INCIDENT MANAGEMENT SYSTEM INSTALLATIONS ALONG I-91 AND I-691

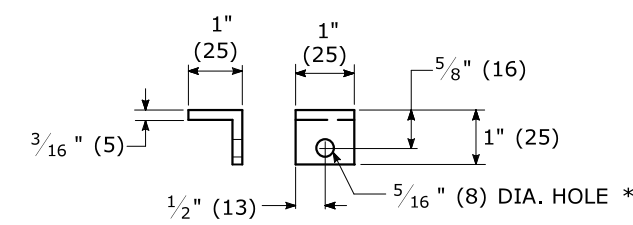
TOWN:
MERIDEN TO ROCKY HILL

DRAWING TITLE:
TYPICAL IMS CONDUIT MEDIAN DETAILS

PROJECT NO.
171-413/414

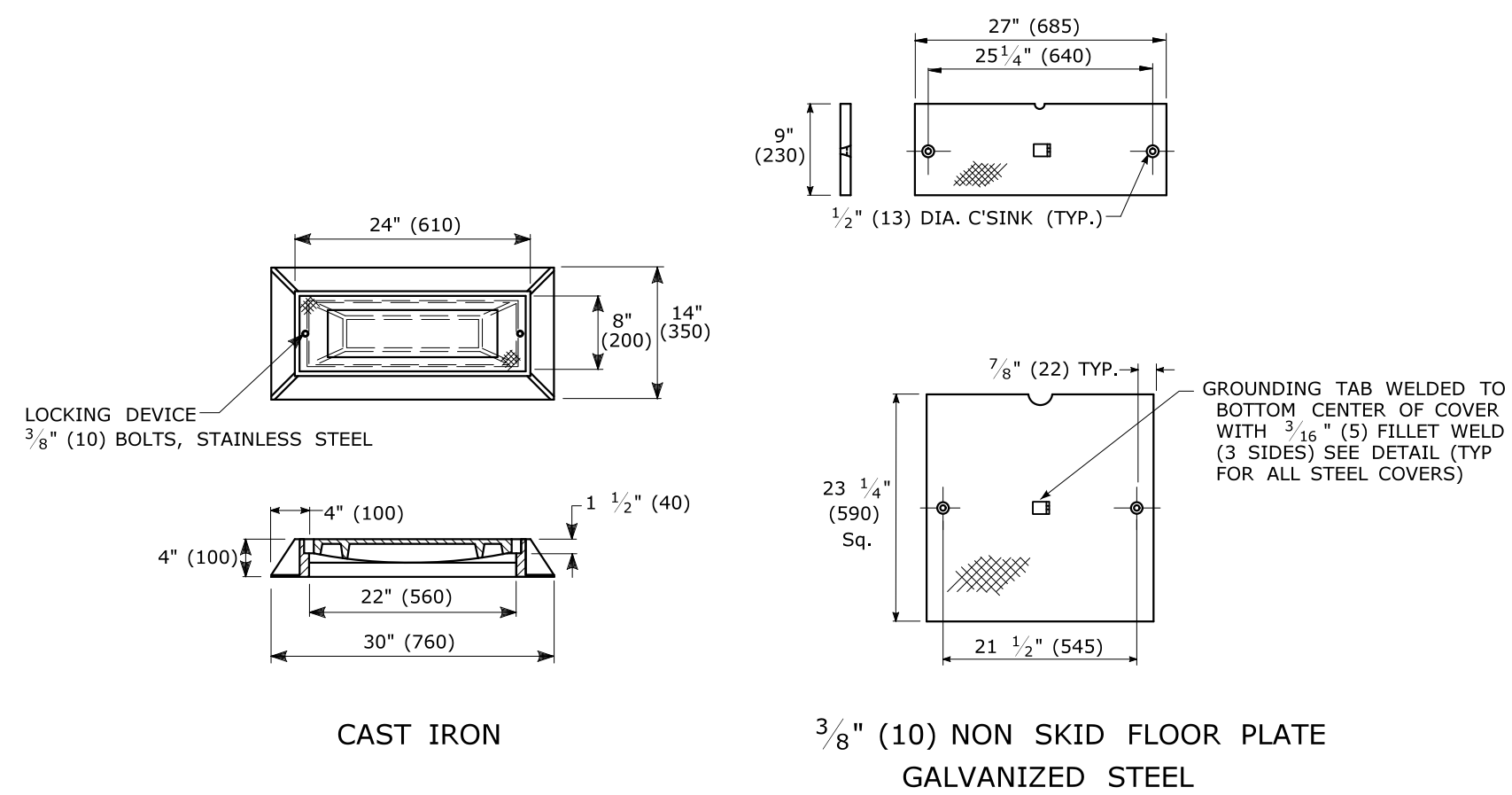
DRAWING NO.
ID-08

SHEET NO.



* NOTE:
ATTACH 6' (2 m) LENGTH OF NO. 8 GROUND WIRE TO
GROUNDING TAB WITH ONE HOLE LUG, 1/4"-20 X 3/4"
(M6 X 20) LG. SST HEX HEAD BOLT, AND SST FLAT
WASHER. ATTACH FREE END OF GROUND WIRE TO
CONDUIT BONDING BUSHING IN HANDHOLE.

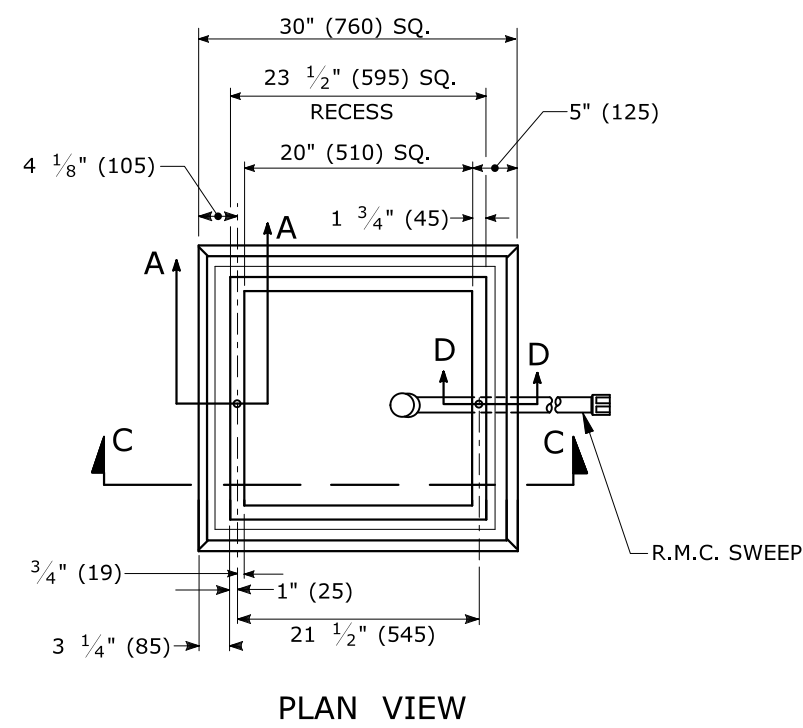
STEEL GROUNDING TAB



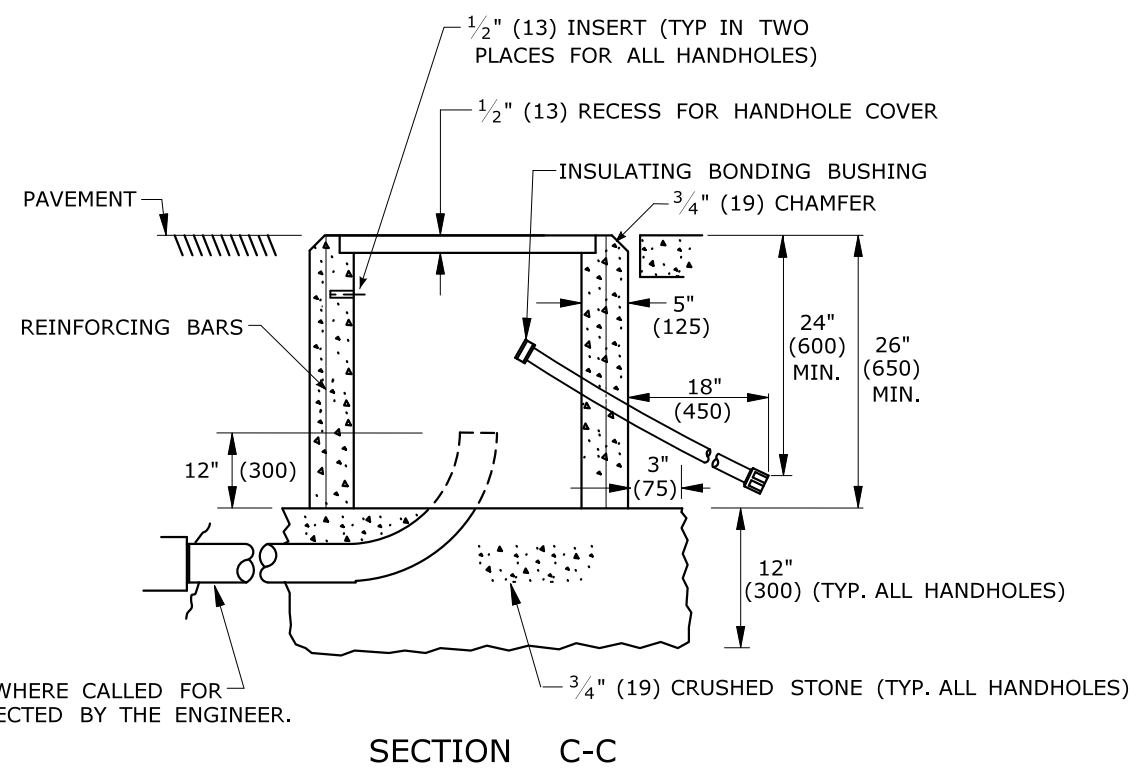
HANDHOLE COVERS

CONCRETE HANDHOLE NOTES:

- 1) BLOCK UNUSED OPENINGS OF HANDHOLE ON THE OUTSIDE WITH PRESSURE TREATED PLYWOOD.
- 2) GROUT AROUND ALL CONDUITS
- 3) USE 1 1/2" X 3/8" (40 X 10) CONCRETE INSERT. STANDARD THREAD, STAINLESS STEEL, FLAT HEAD BOLT, RECESSED IN PLATE COVER. INSERTS TO HAVE CLEANOUTS.
- 4) TYPE II HANDHOLE 30" (760) SIDE INSTALLED PARALLEL TO ROAD UNLESS OTHERWISE NOTED.
- 5) WHERE AN EXISTING CONCRETE SIDEWALK SLAB ABUTTING A HANDHOLE IS DAMAGED OR CUT DURING INSTALLATION THE ENTIRE SECTION SHALL BE REPLACED.
- 6) 12-#3 REINFORCING BARS REQUIRED FOR ALL HANDHOLES.



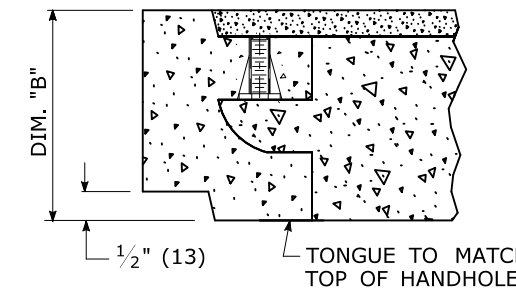
PLAN VIEW



SECTION C-C

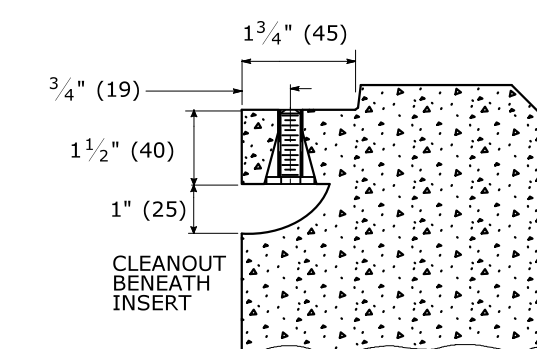
CONCRETE HANDHOLE CLASS "PCC" CONCRETE

DIM. "B" CHART	
ENGLISH HEIGHT	METRIC HEIGHT
2"	50
4" SHOWN	100
6"	150
12"	300

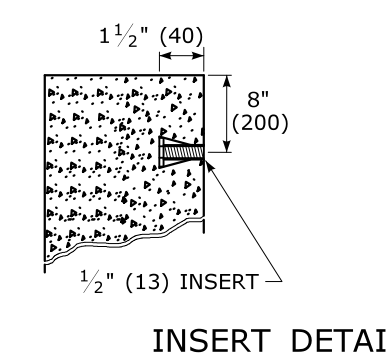


SECTION "A-A"

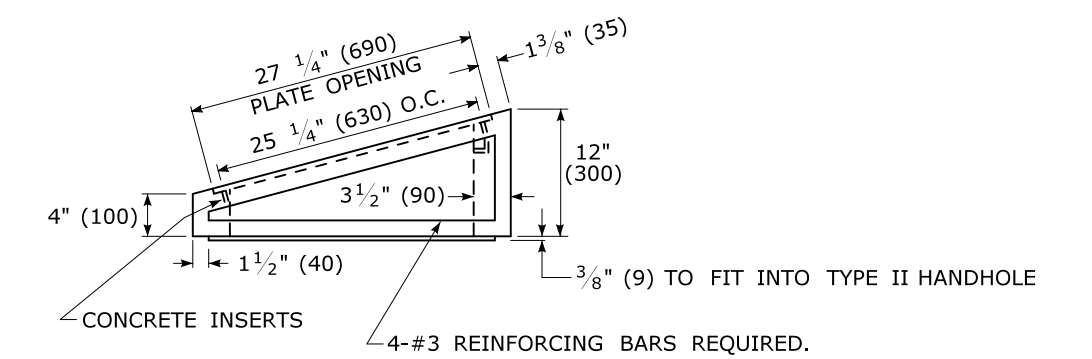
HANDHOLE EXTENSIONS
12 - #8 REINFORCING BARS REQ'D



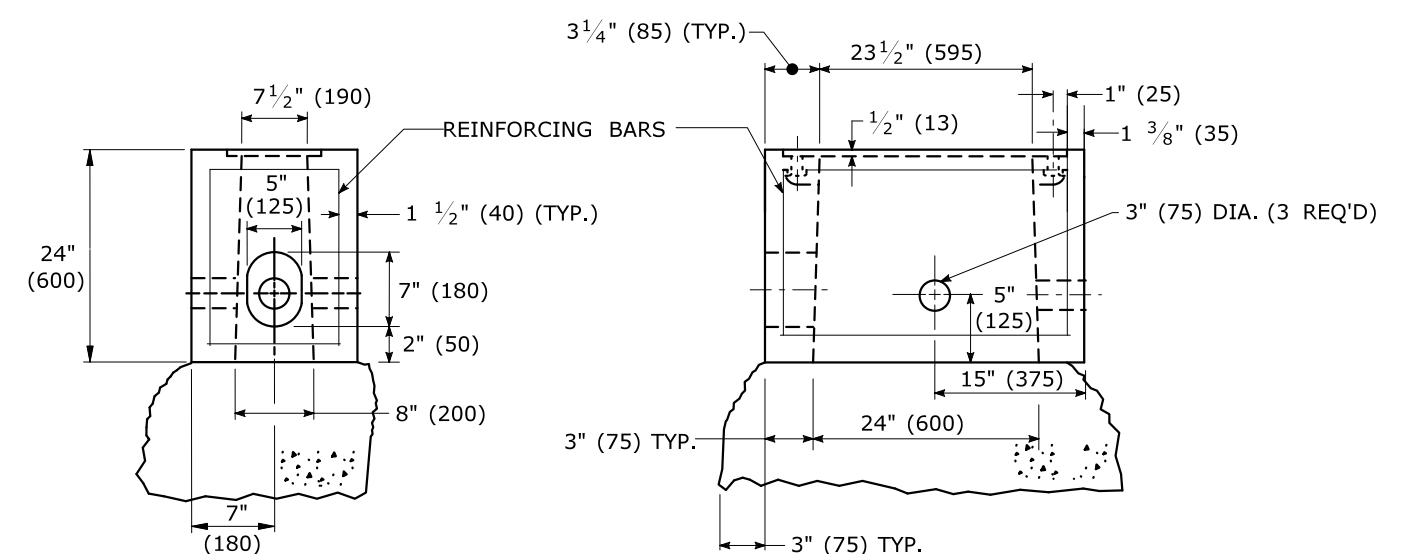
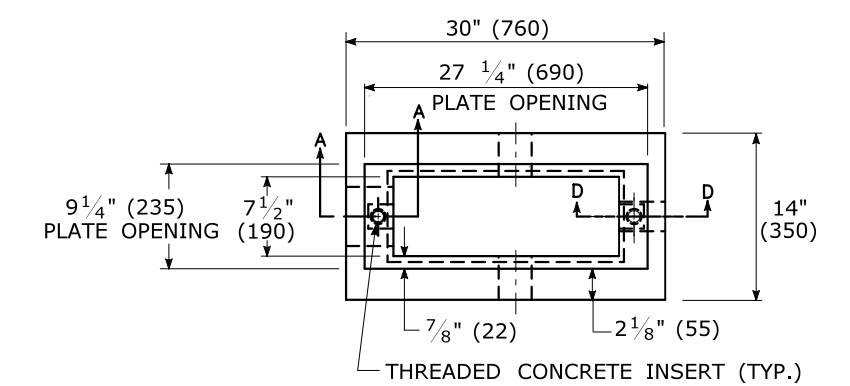
SECTION "D-D"



INSERT DETAIL



CONCRETE HANDHOLE TYPE II BANK ADAPTER



CONCRETE HANDHOLE TYPE II CLASS "PCC" CONCRETE

FINAL DESIGN REVIEW

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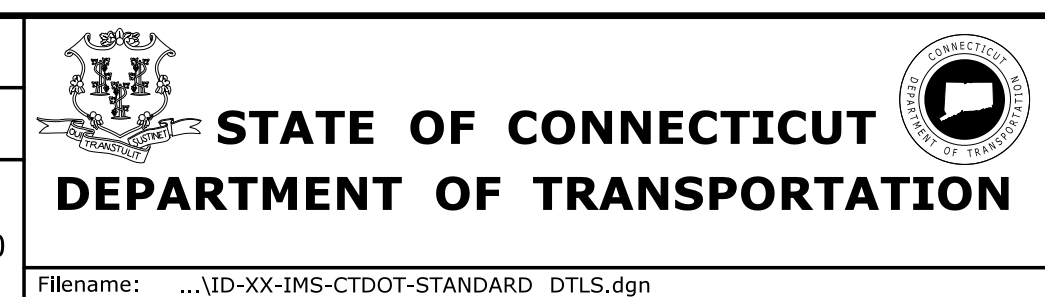
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 3/15/2021

DESIGNER/DRAFTER:
D.K. SWINBURNE

CHECKED BY:
R.A. KENNEDY

SCALE IN FEET
0 20 40
SCALE 1"=20'



SIGNATURE/
BLOCK:

PROJECT TITLE:
INCIDENT MANAGEMENT SYSTEM INSTALLATIONS ALONG ROUTE 9 AND ROUTE 72

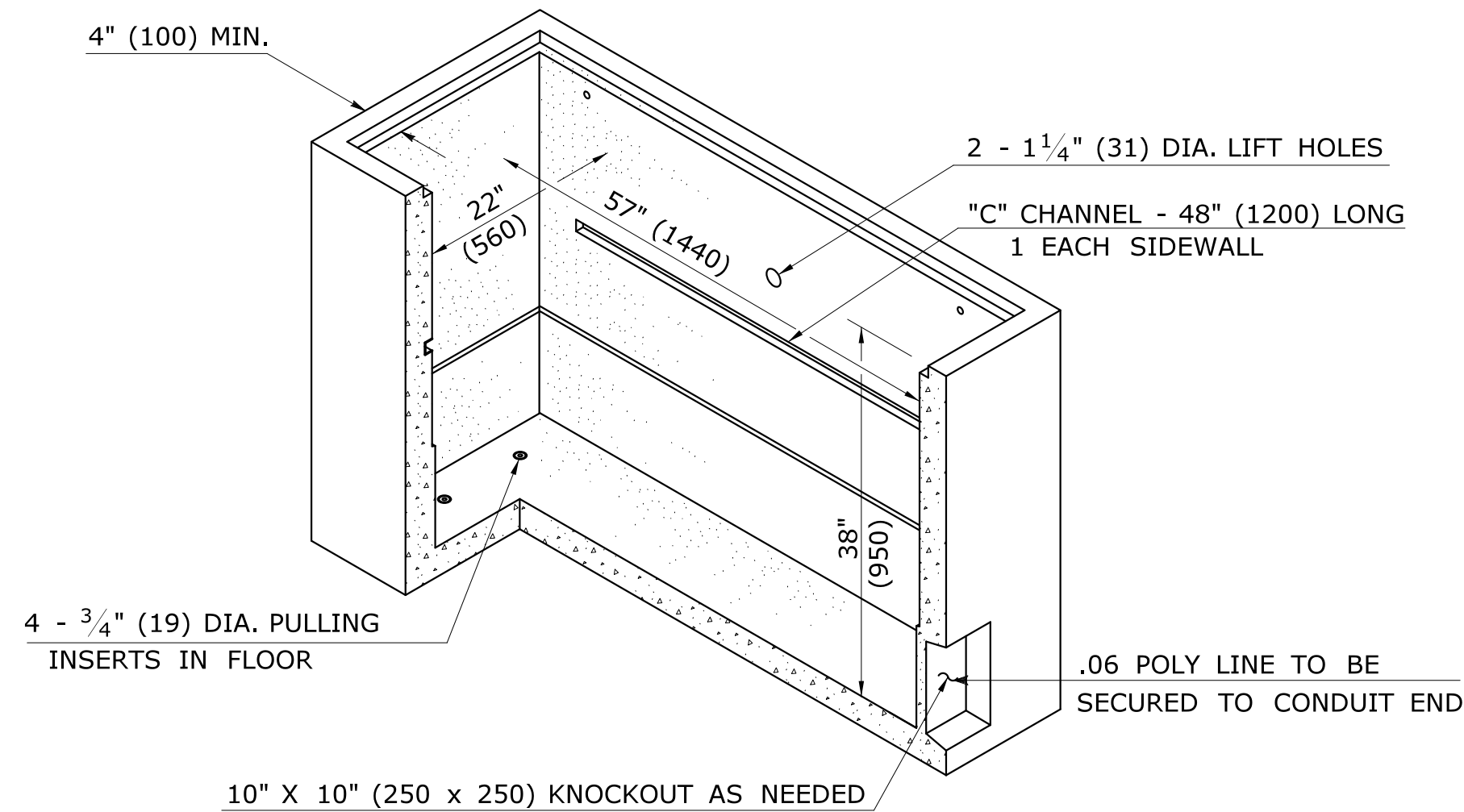
TOWN:
FARMINGTON TO CROMWELL

DRAWING TITLE:
CONCRETE HANDHOLE DETAILS

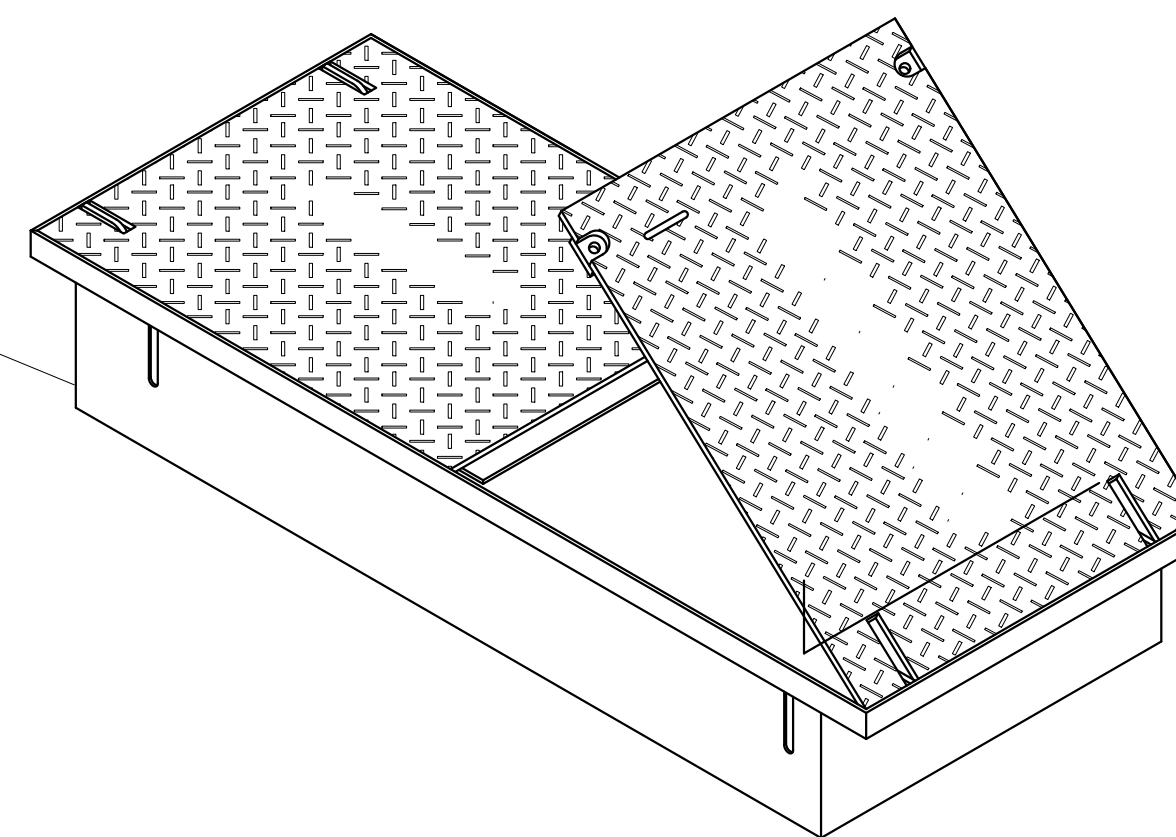
PROJECT NO.
171-415/416

DRAWING NO.
ID-08

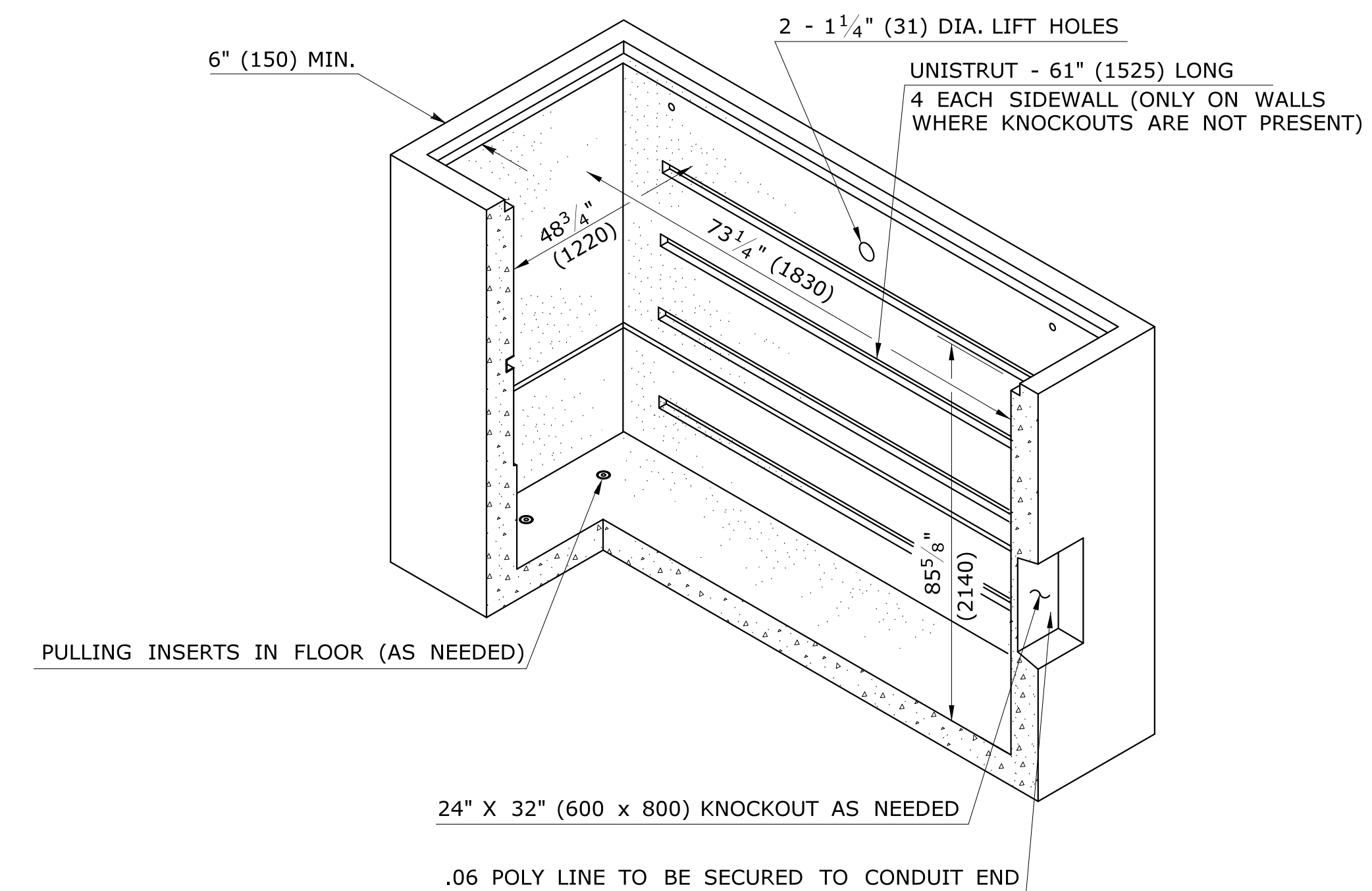
SHEET NO.



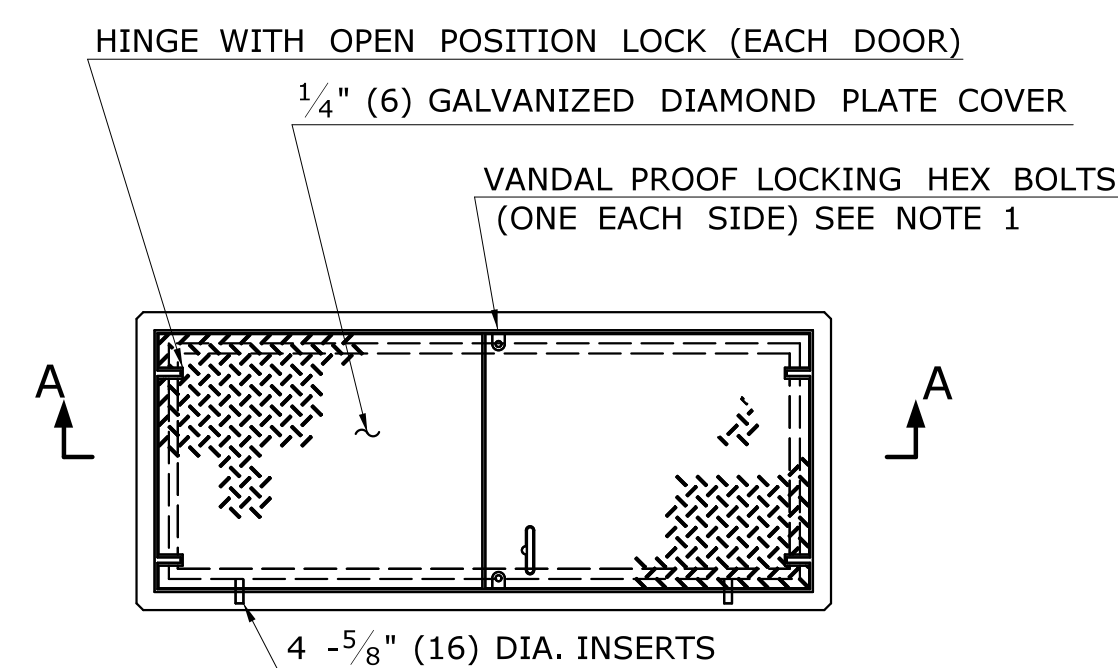
COVER WITH ADJ. FRAME 220lbs. (100 kg.)



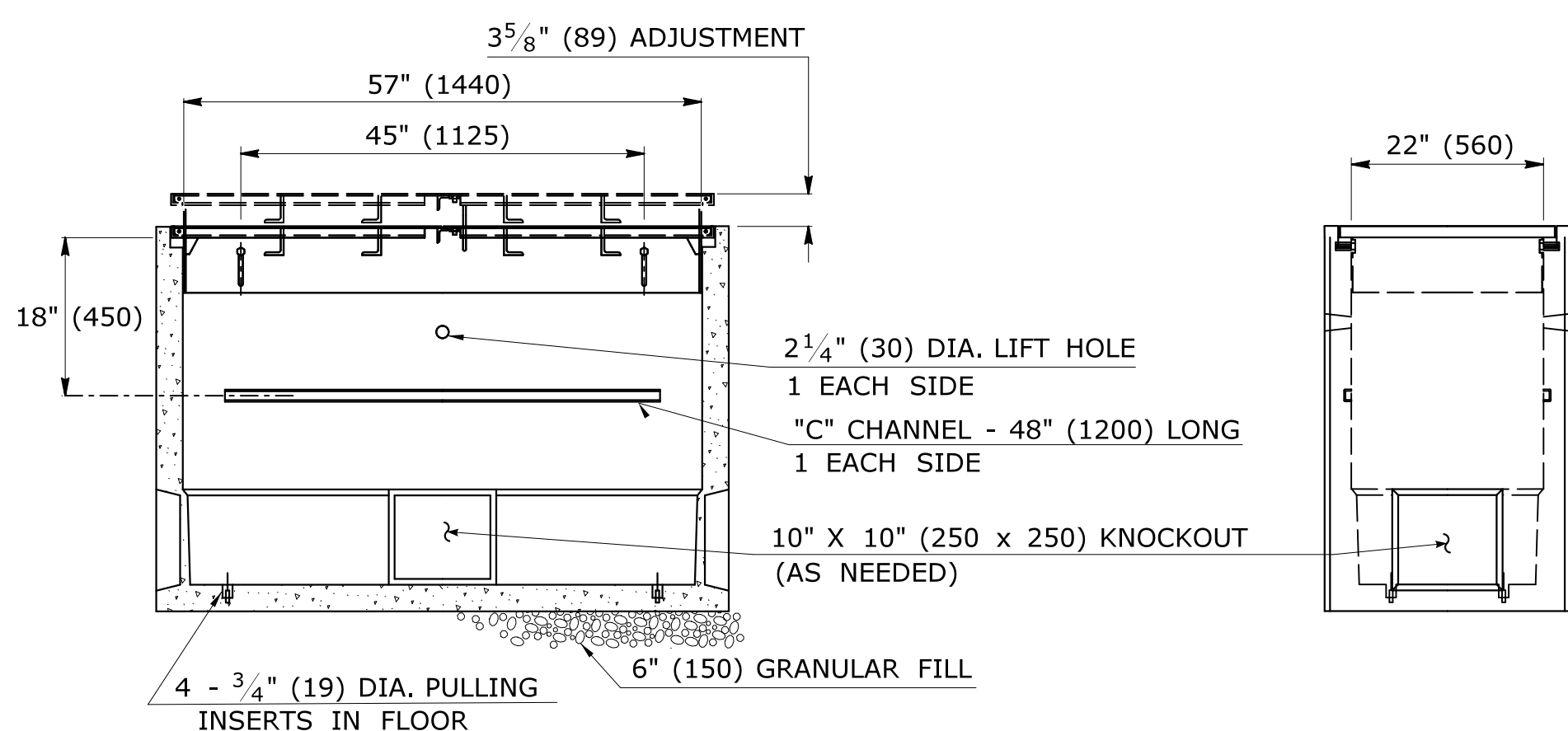
RECESSED COVER



VAULT - DETAIL



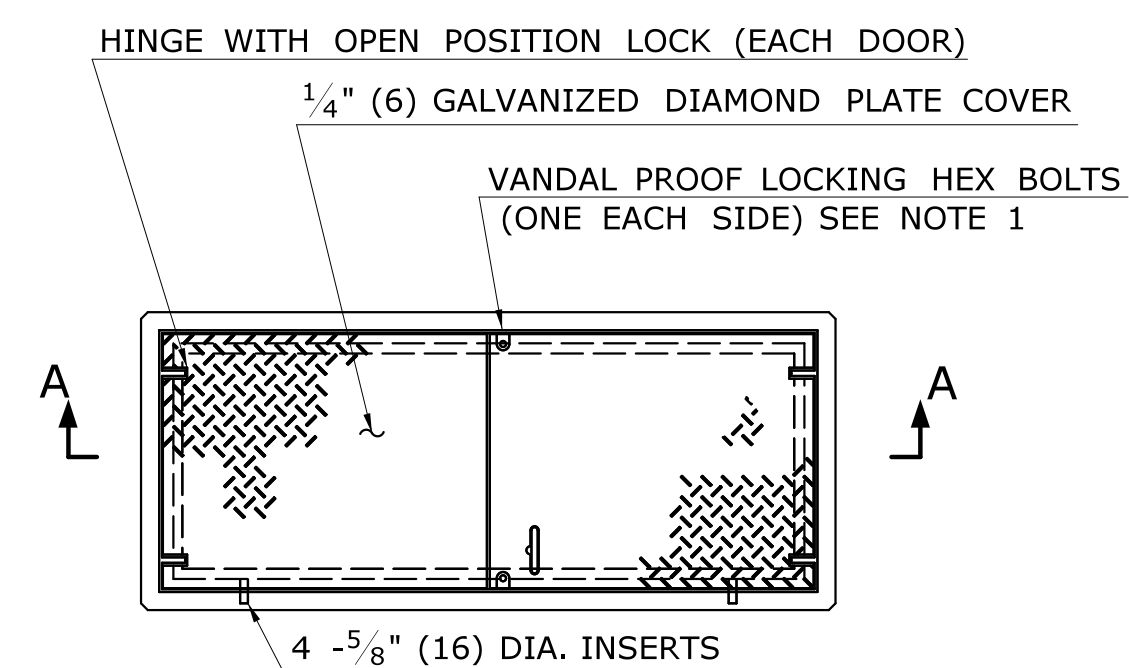
PLAN VIEW



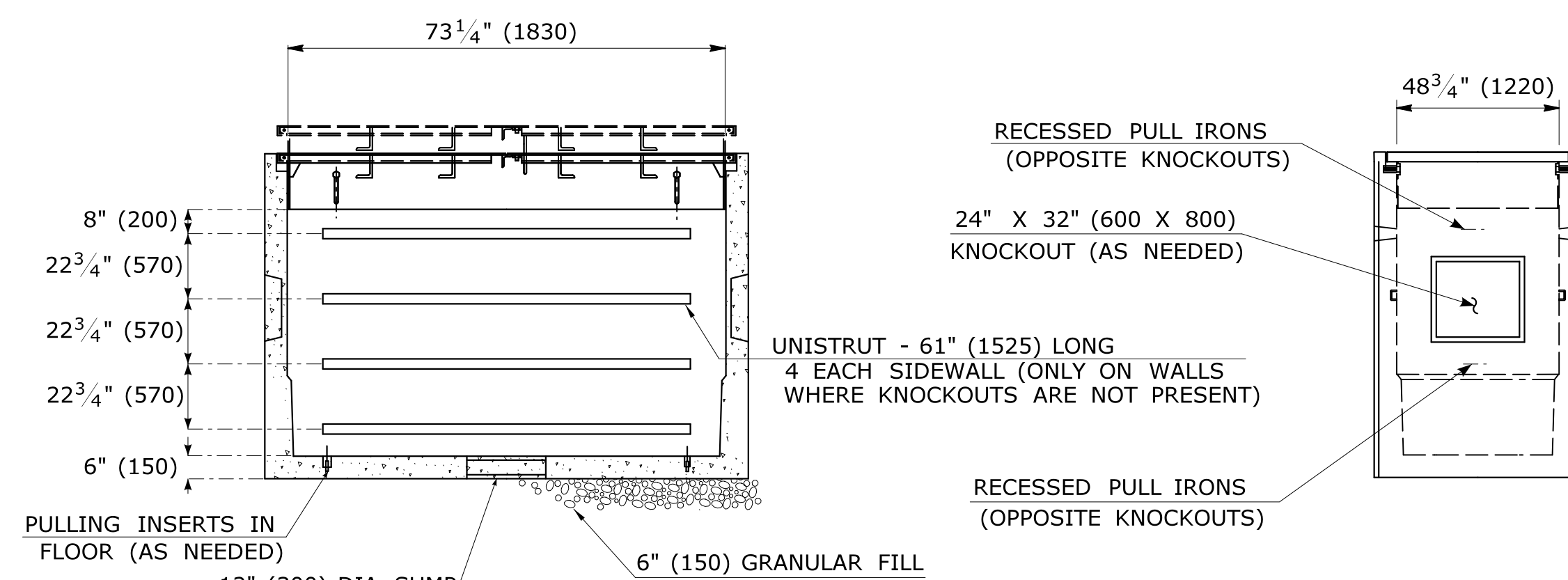
SECTION A-A

END VIEW

PULL BOX - DETAIL



PLAN VIEW



SECTION A-A

END VIEW

GENERAL NOTES:

- 1) SUITABLE IN OFF-STREET LOCATIONS WHERE NOT SUBJECTED TO HIGH DENSITY TRAFFIC.
- 2) FOR EACH PULL BOX INSTALLED, ONE OF THE SPECIAL TOOLS REQUIRED TO OPEN THE HEX BOLTS SHALL BE PROVIDED TO THE STATE. COST OF TOOL IS INCLUDED IN THE ITEM FOR PULLBOX.
- 3) PULL BOXES SHALL BE INSTALLED SO THAT THE KNOCKOUTS ARE PARALLEL TO THE MAINLINE CONDUIT DIRECTION.

DESIGN CRITERIA:

LIVE LOAD

PULL BOX AND COVER SHALL BE DESIGNED BY THE CONTRACTOR TO SUPPORT H2O LIVE LOAD, WITH 30% IMPACT.

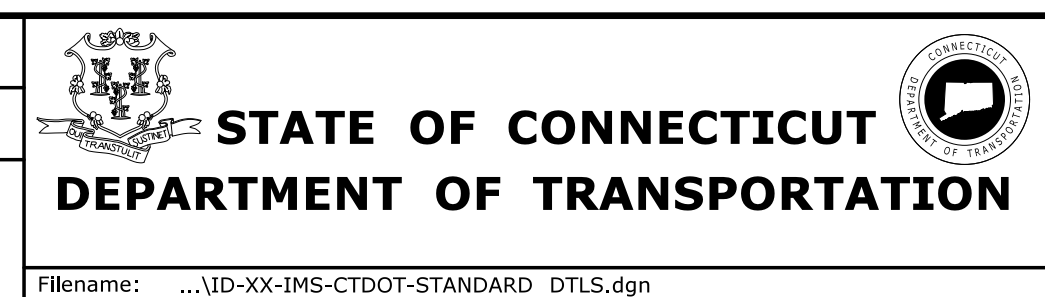
EARTH PRESSURE

AN EQUIVALENT FLUID PRESSURE (HORIZONTAL) OF NOT LESS THAN 53 lbs./S.F. (264 kg./Sq. m) SHALL BE USED FOR DESIGN. SITE CONDITIONS MAY NECESSITATE MODIFICATIONS TO THE EQUIVALENT FLUID PRESSURE (I.E. SLOPING, BACKFILL, WATER TABLE, ETC.). THE CONTRACTOR IS RESPONSIBLE FOR EVALUATING SITE CONDITIONS WITH REGARDS TO DESIGN REQUIREMENTS.

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER:
D.K. SWINBURNE
CHECKED BY:
R.A. KENNEDY



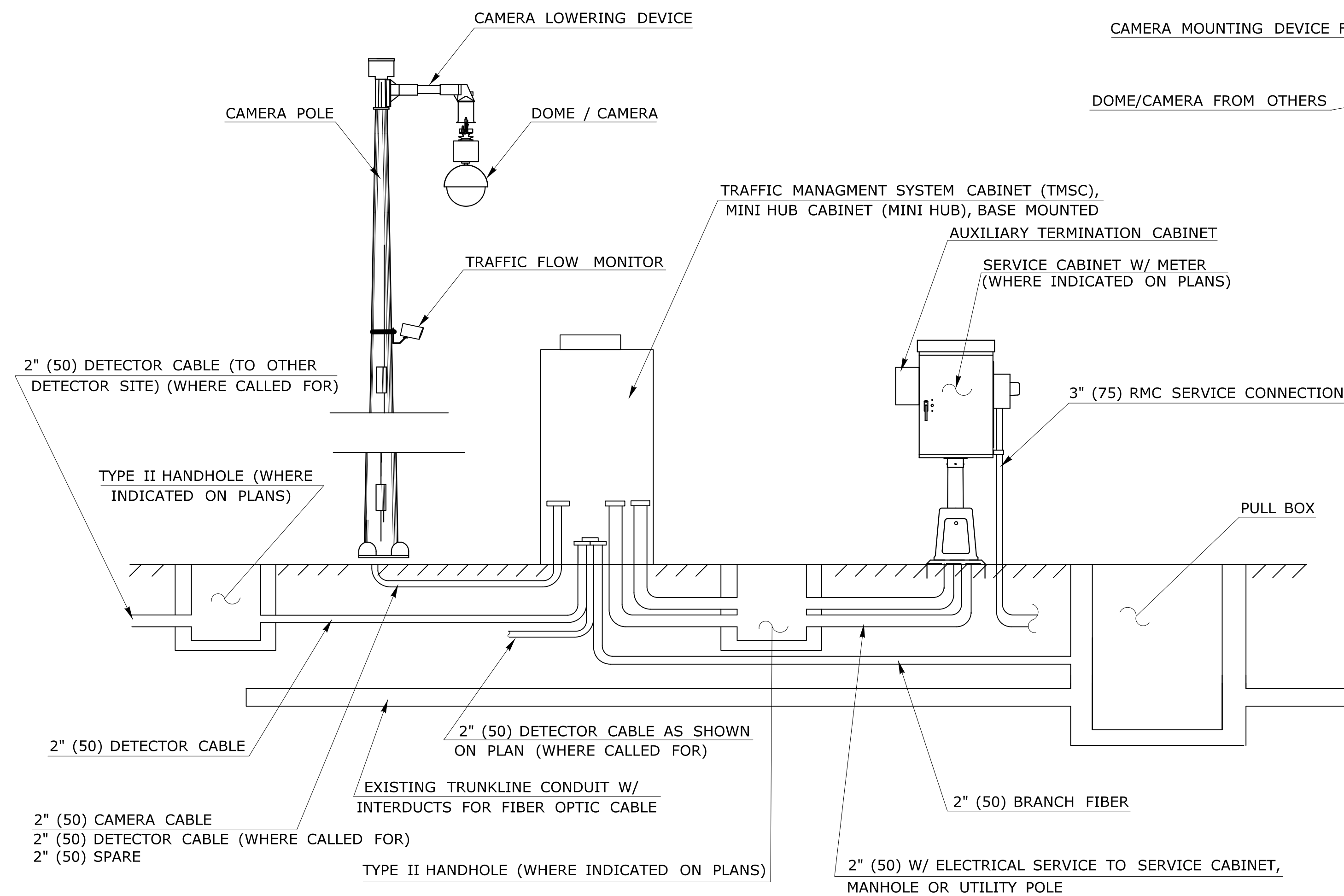
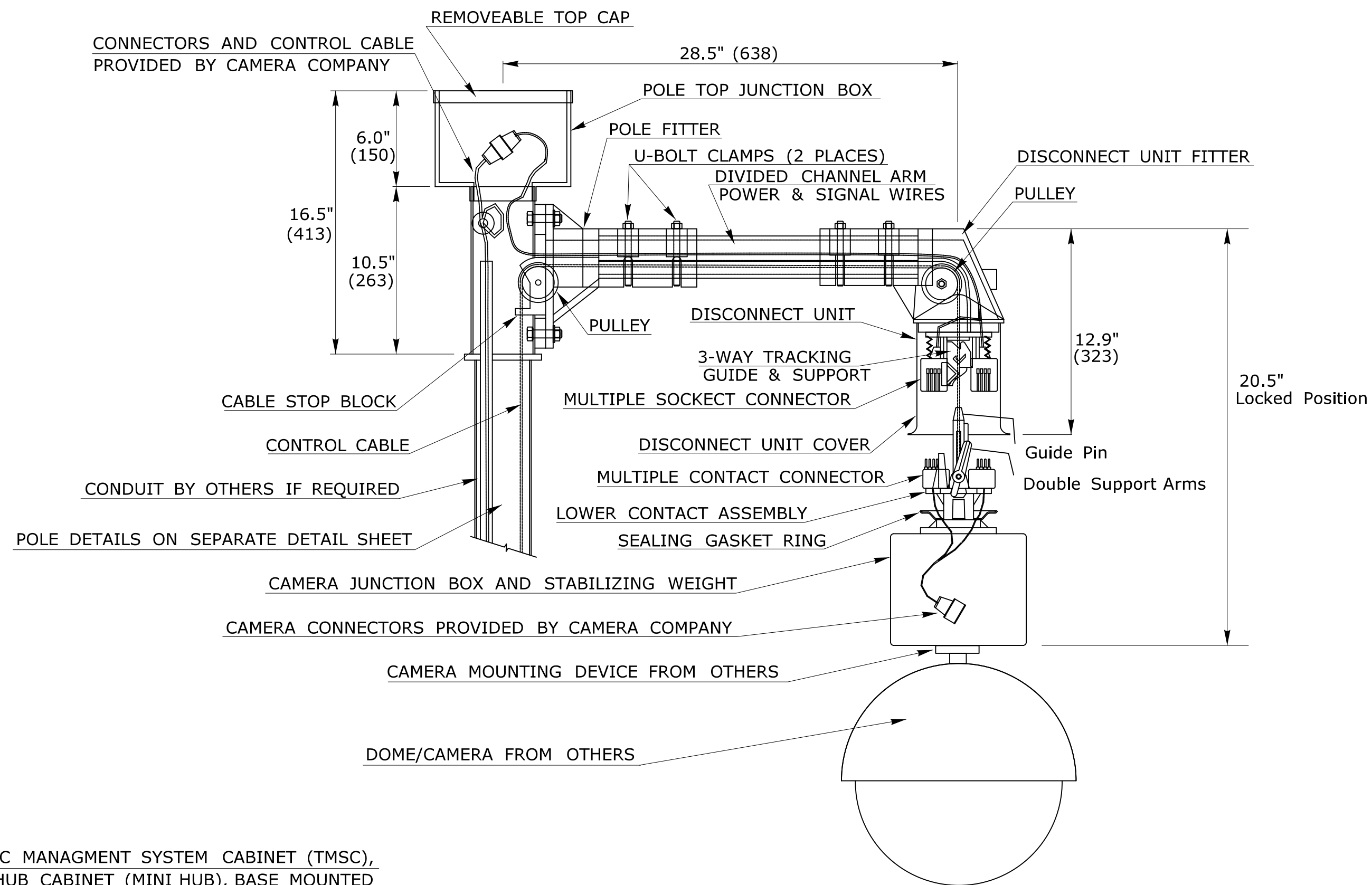
SIGNATURE/
BLOCK:

PROJECT TITLE:
**INCIDENT MANAGEMENT
SYSTEM INSTALLATIONS
ALONG ROUTE 9 AND ROUTE 72**

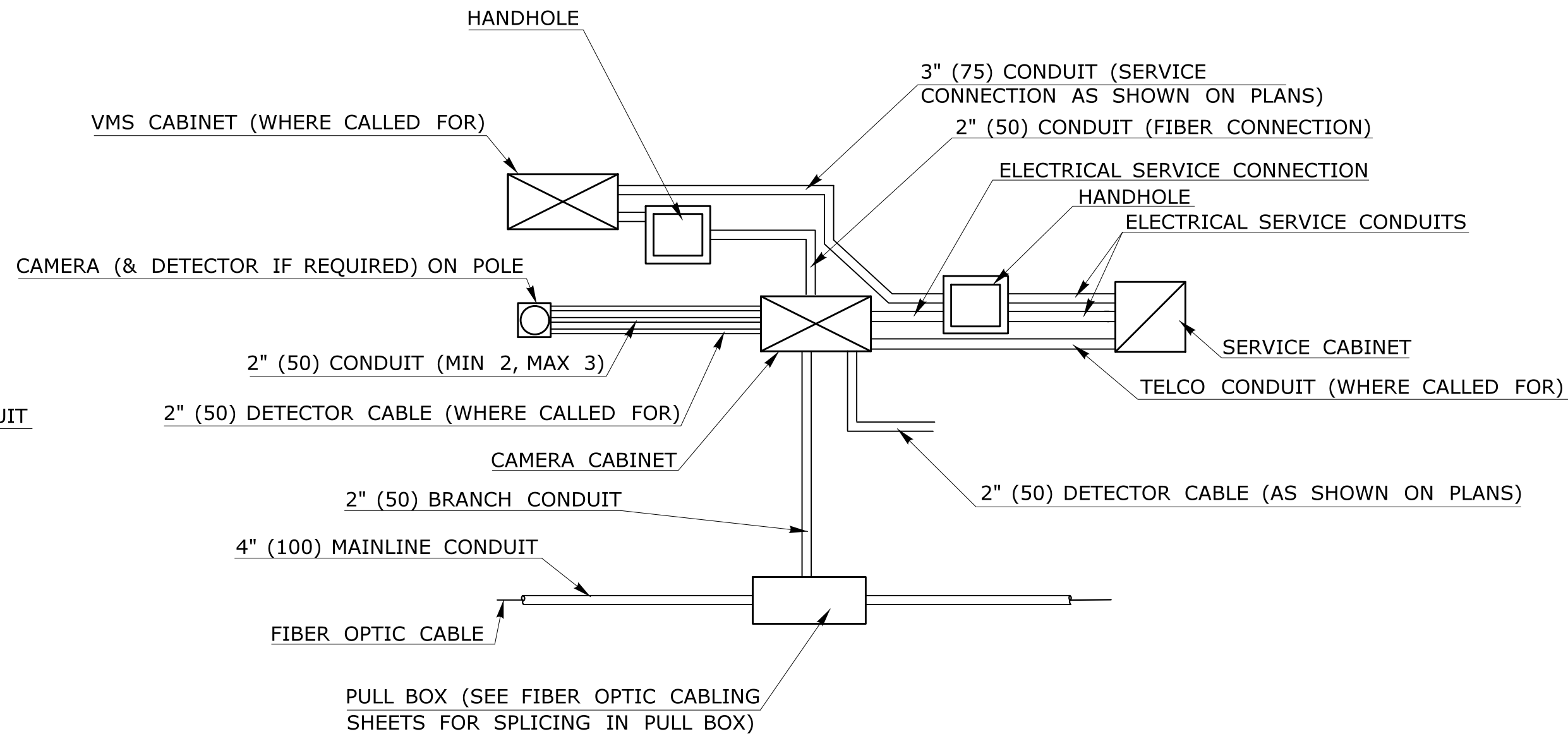
TOWN:
**FARMINGTON TO
CROMWELL**
DRAWING TITLE:
**PULL BOX AND
VAULT DETAILS**

PROJECT NO.
171-415/416
DRAWING NO.
ID-09
SHEET NO.

CAMERA LOWERING DEVICE - ARM AND DISCONNECT UNIT FOR POLE MOUNTING OF DETECTION AND MULTI-FUNCTION SURVEILLANCE CAMERAS.



CCTV ELEVATION SCHEMATIC

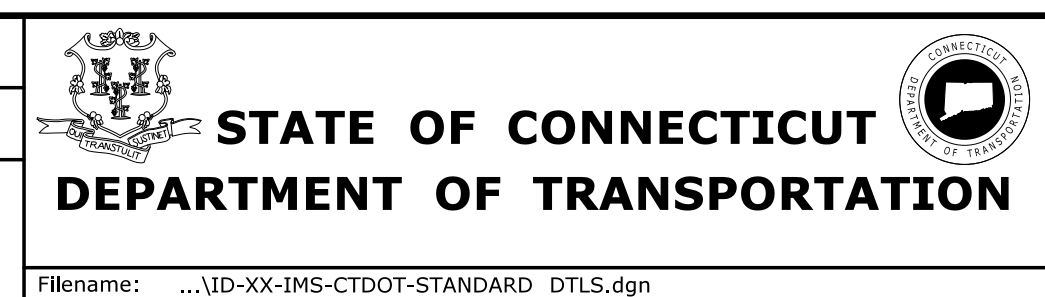


CCTV SCHEMATIC PLAN
SEE SITE PLANS FOR SPECIFIC LAYOUT

FINAL DESIGN REVIEW

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER:
D.K. SWINBURNE
CHECKED BY:
R.A. KENNEDY

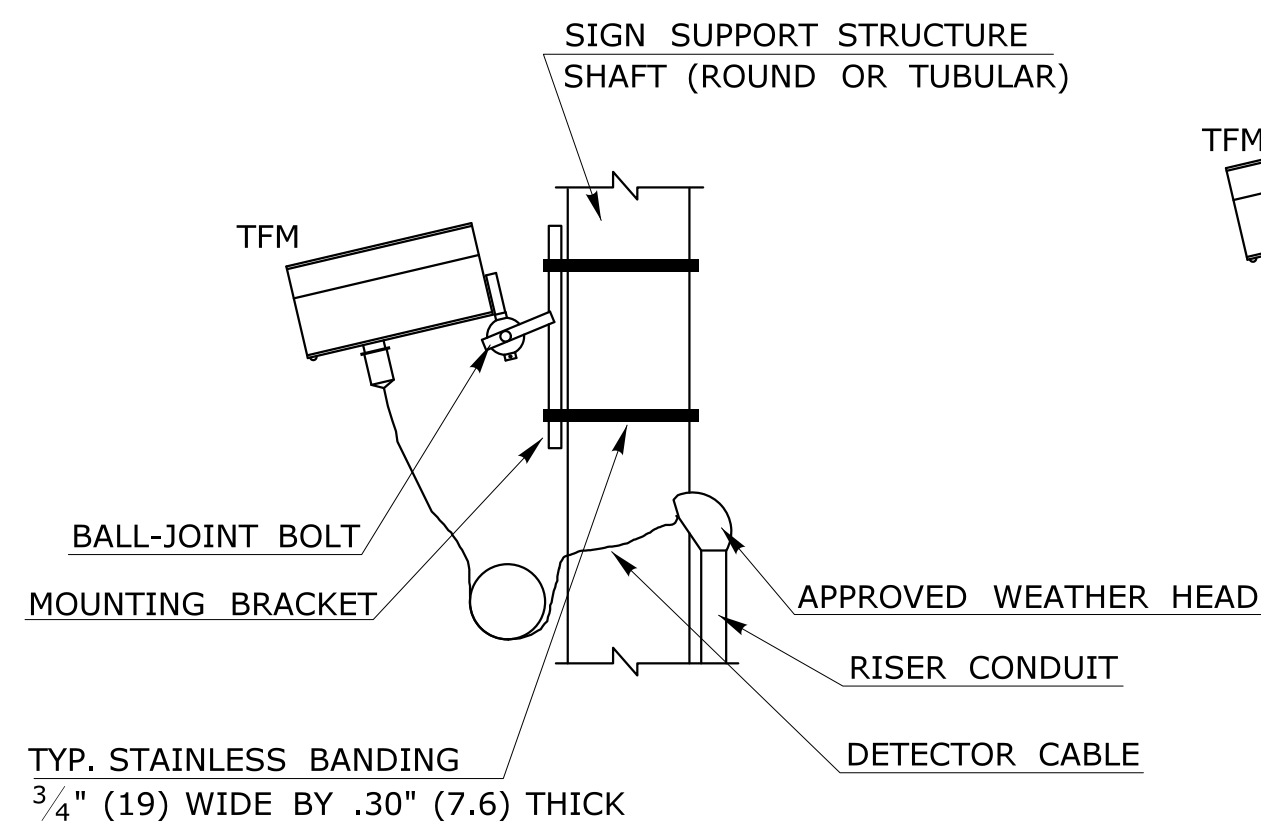


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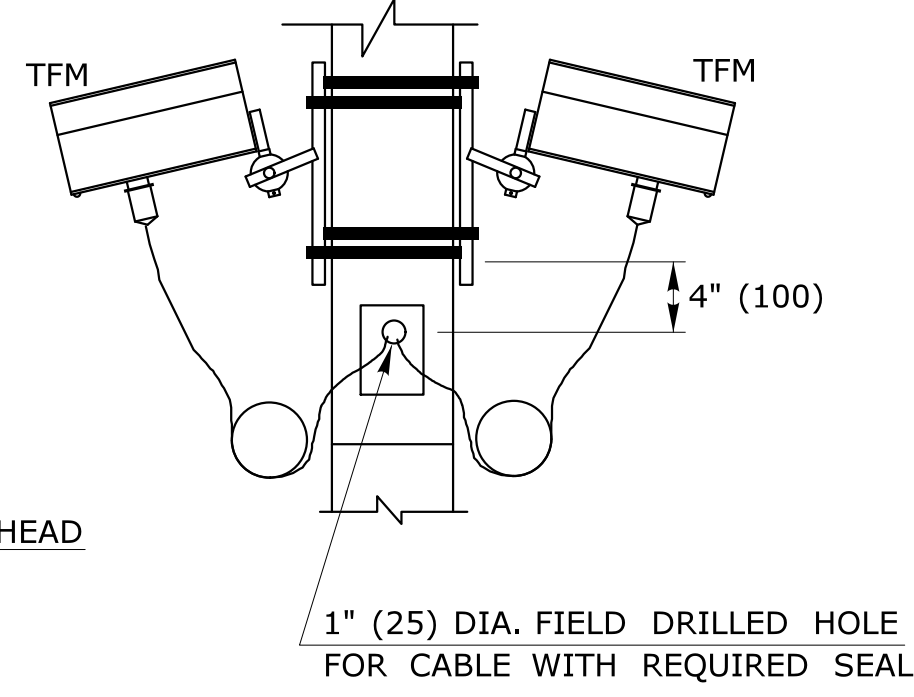
PROJECT TITLE:
**INCIDENT MANAGEMENT
SYSTEM INSTALLATIONS
ALONG ROUTE 9 AND ROUTE 72**

TOWN:
**FARMINGTON TO
CROMWELL**
DRAWING TITLE:
**LOWERING DEVICE AND
CAMERA LOCATION SCHEMATICS**

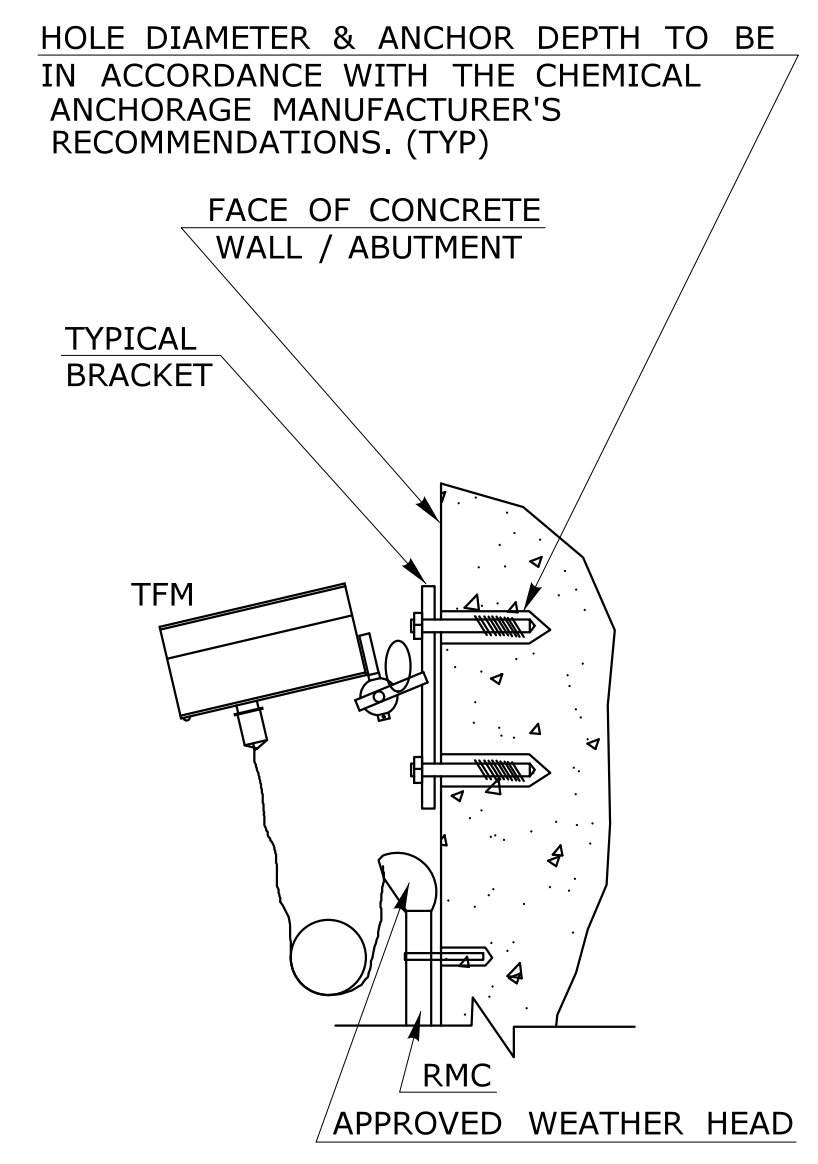
PROJECT NO.
171-415/416
DRAWING NO.
ID-10
SHEET NO.



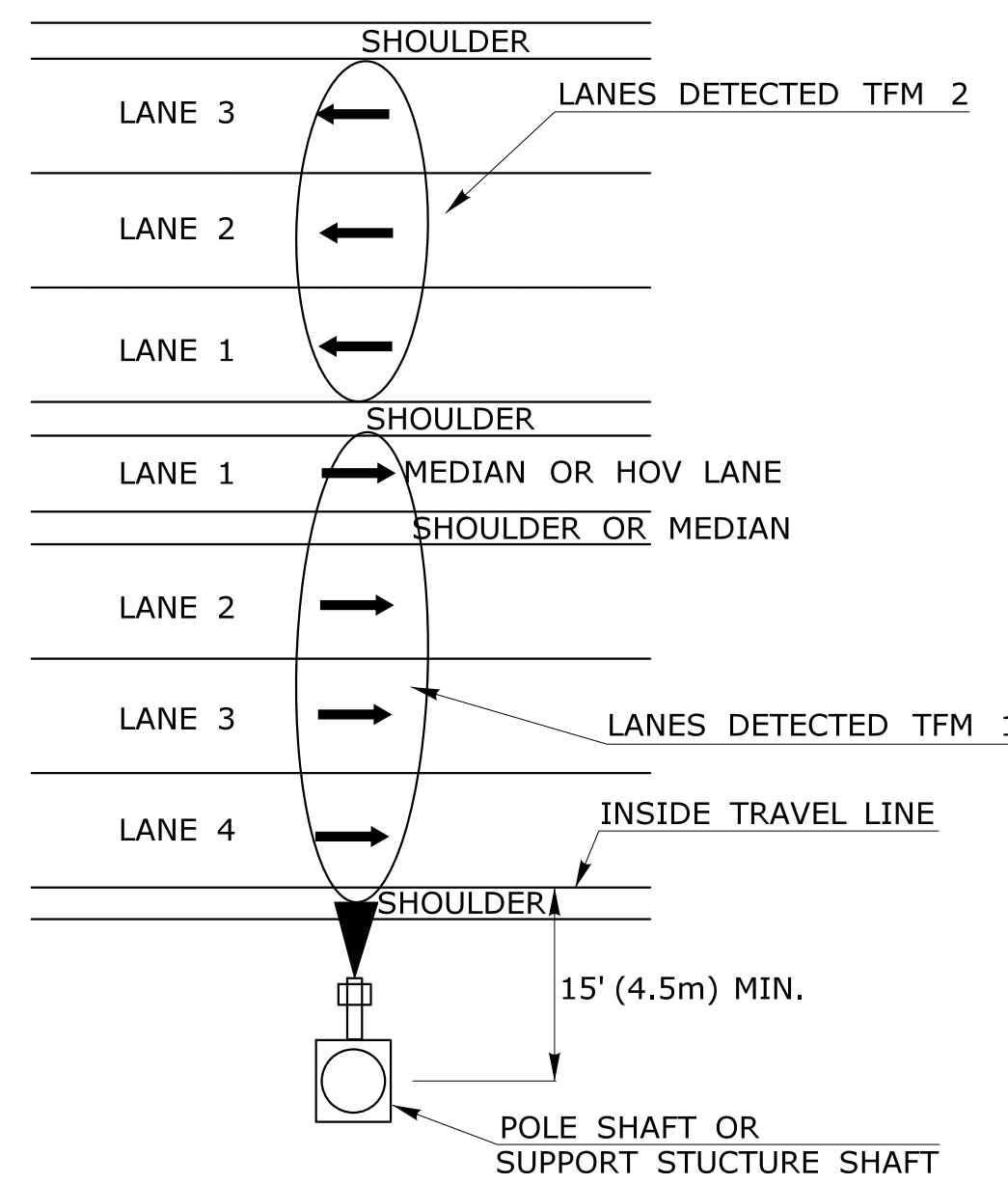
**TYPICAL ATTACHMENT
DETAIL EXISTING
SIGN SUPPORT**



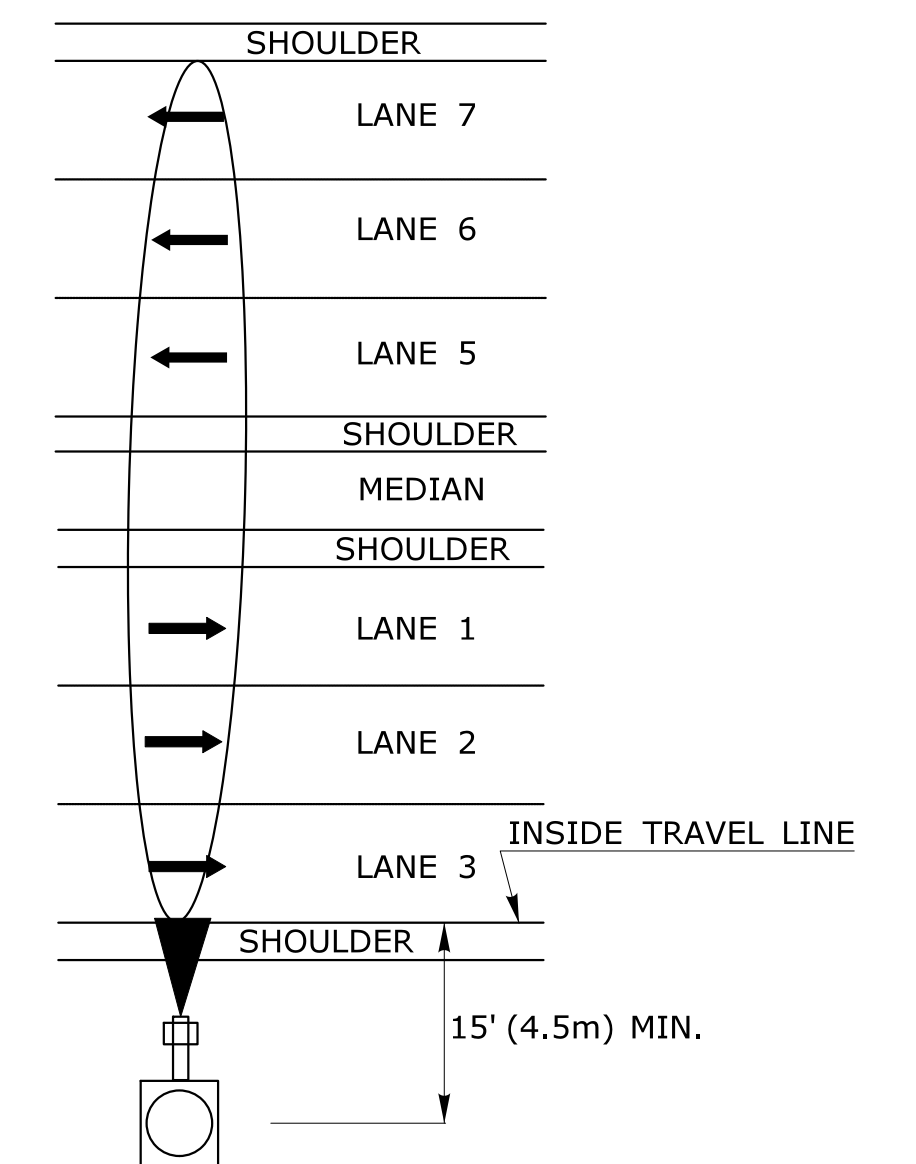
**TYPICAL ATTACHMENT
DETAIL DUAL
DETECTORS IN MEDIAN**



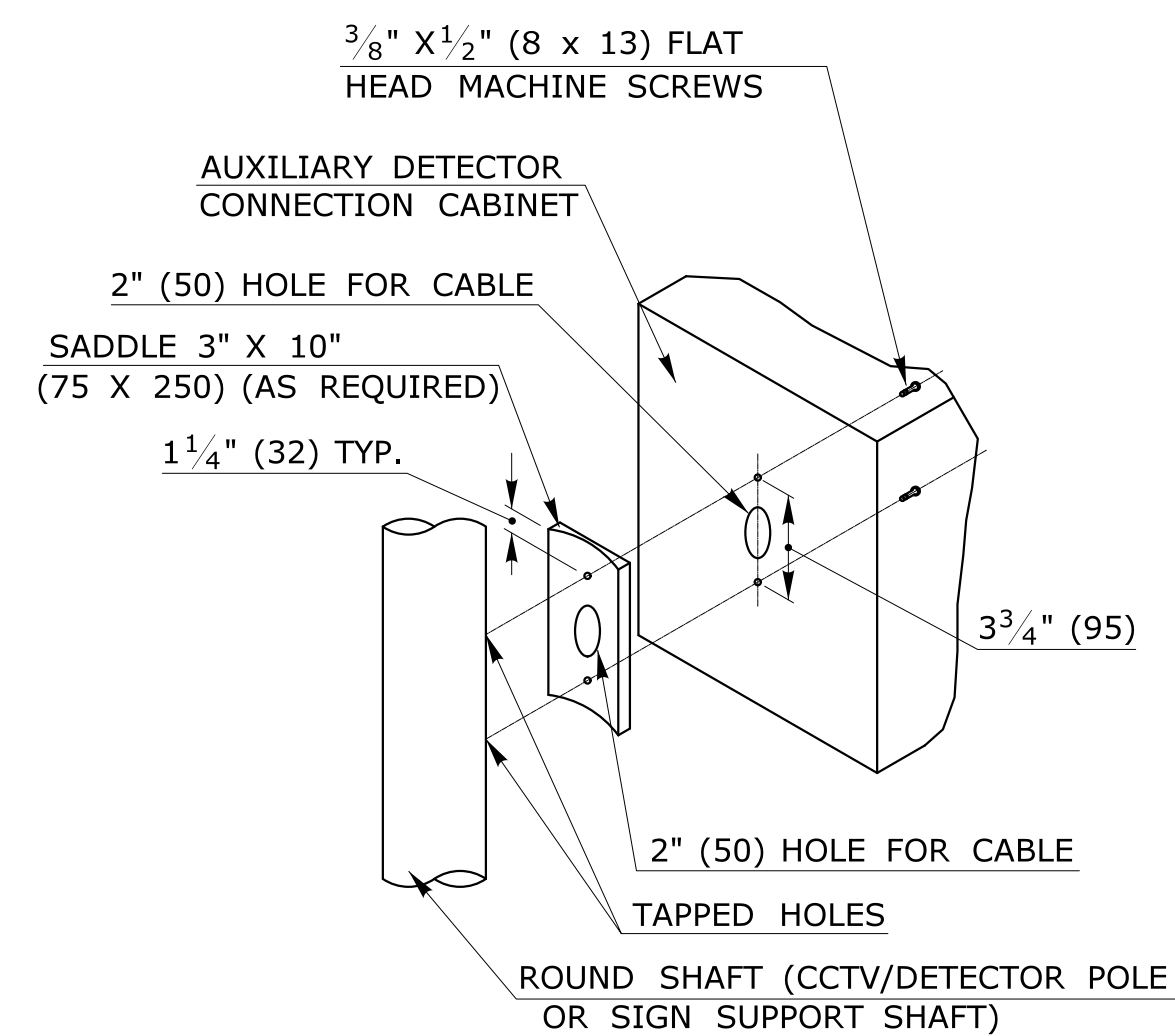
**TYPICAL ATTACHMENT
DETAIL CONCRETE
WALL / SURFACE**



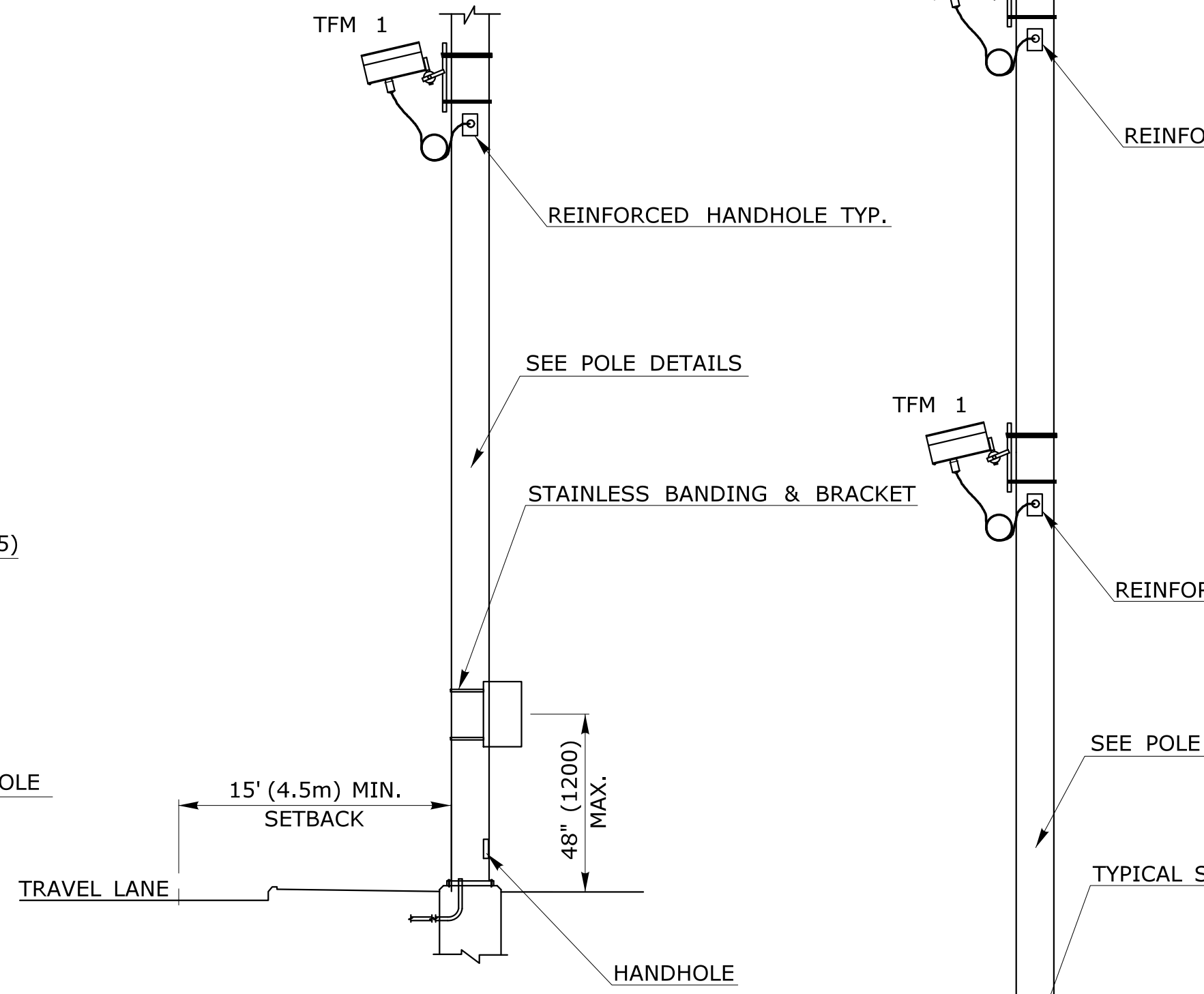
**TYPICAL DUAL TFM
INSTALLATION SCHEMATIC**



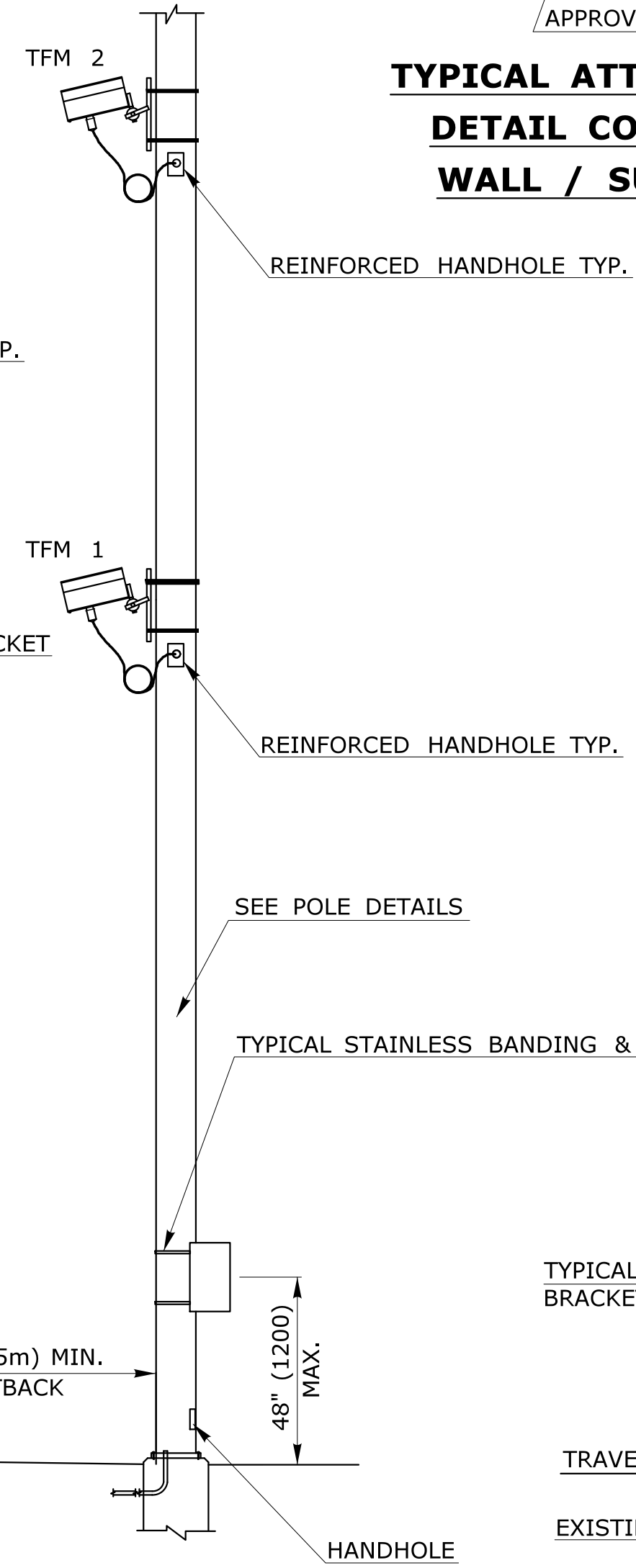
**TYPICAL SINGLE TFM
INSTALLATION SCHEMATIC**



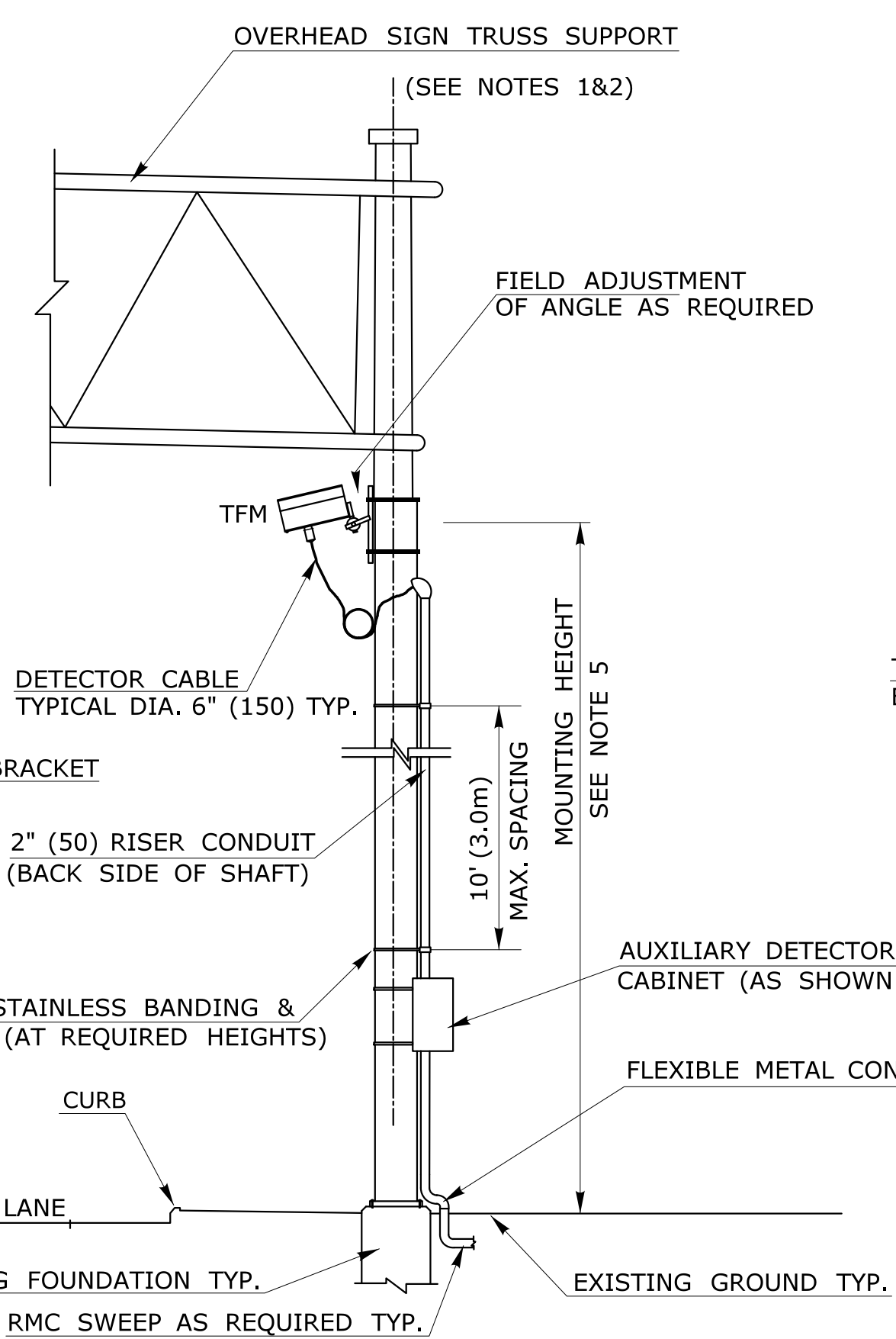
**MOUNTING DETAIL FOR
AUXILIARY DETECTOR
CONNECTION CABINET**



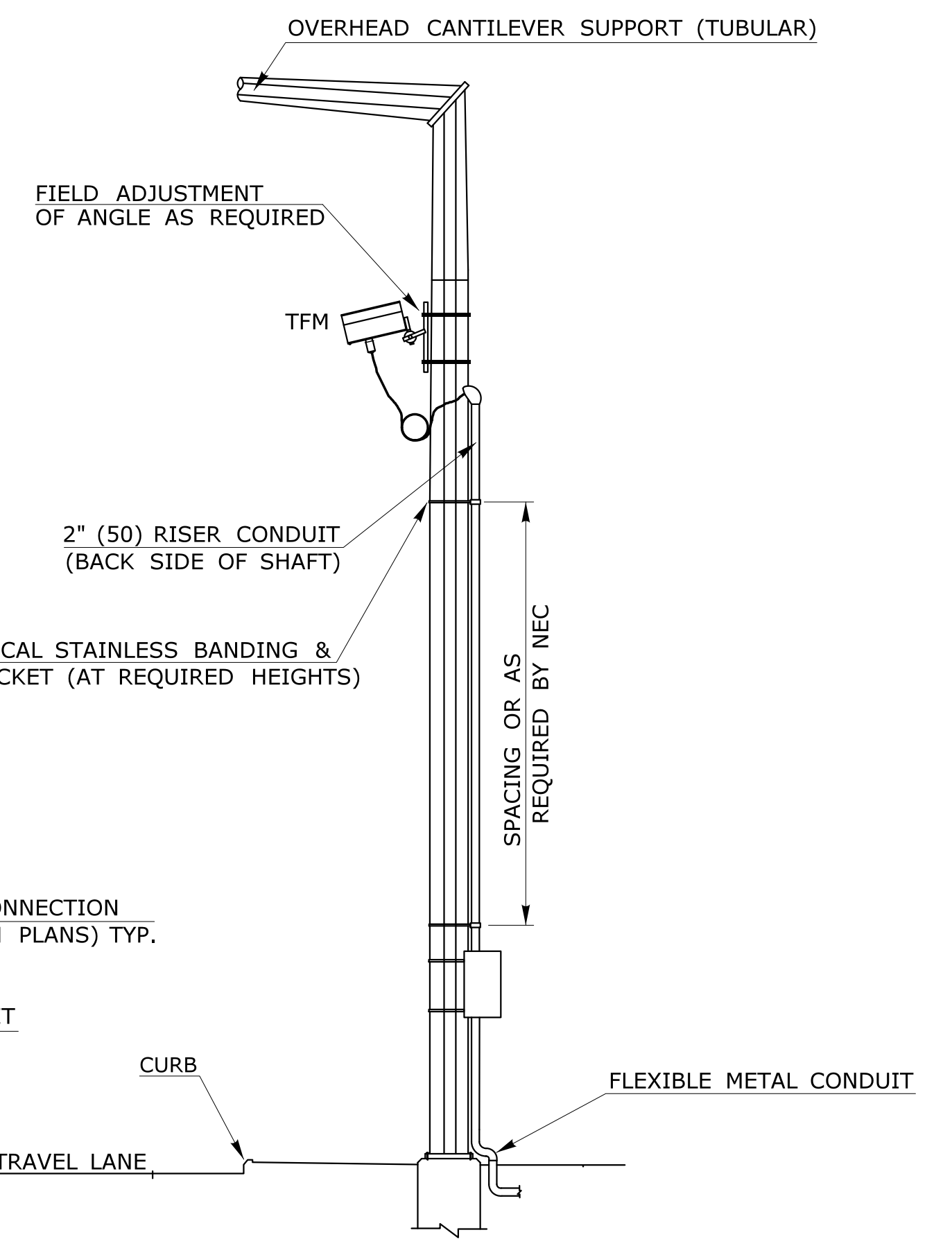
**TYPICAL POLE SIDE
SINGLE TFM MOUNTING DETAIL**



**TYPICAL POLE SIDE
DUAL TFM MOUNTING DETAIL**



**TYPICAL OVERHEAD SIGN
SUPPORT MOUNTING DETAIL
(ROUND SHAFT)**

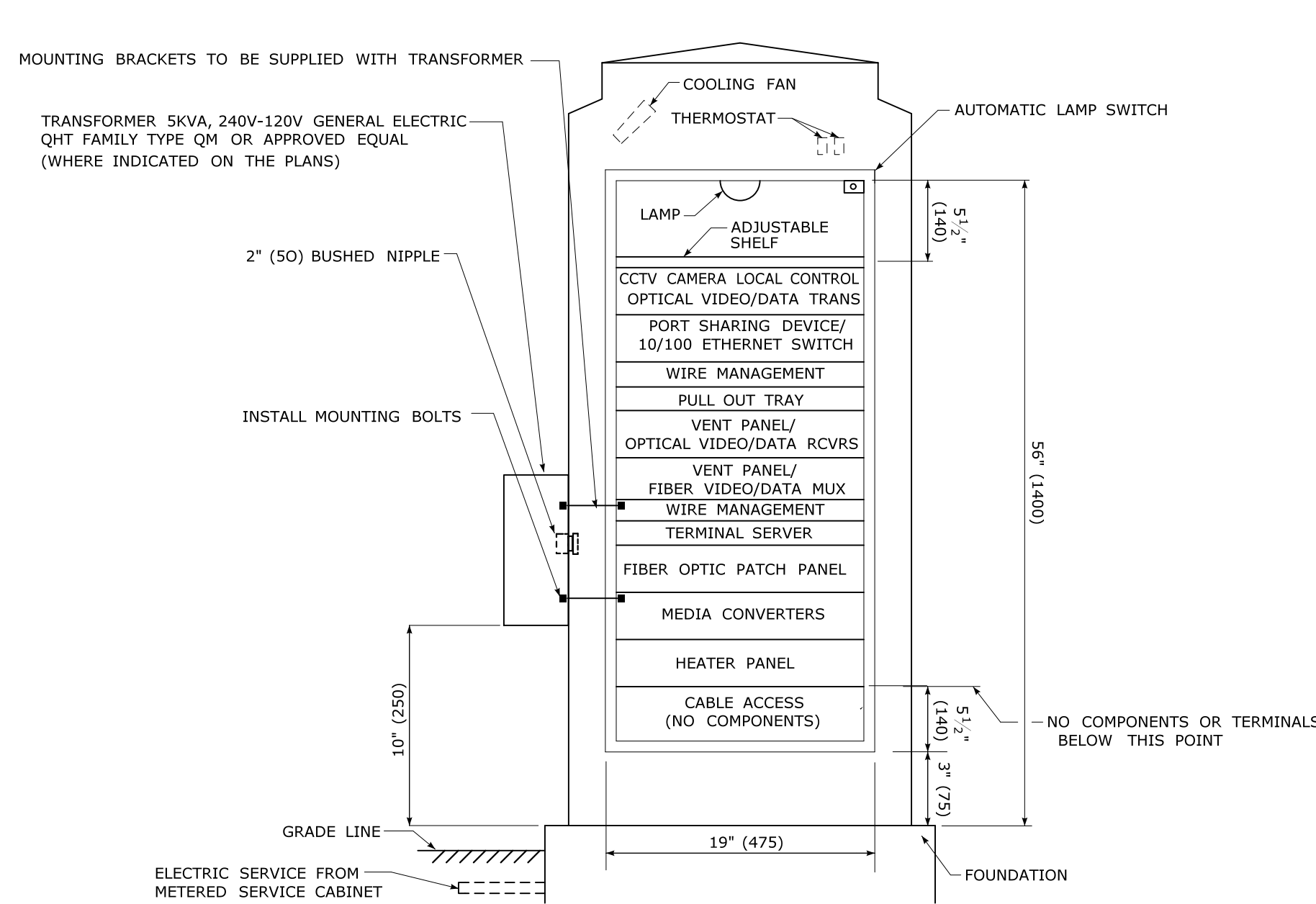


**TYPICAL CANTILEVER SIGN
SUPPORT MOUNTING DETAIL
(TUBULAR SHAFT)**

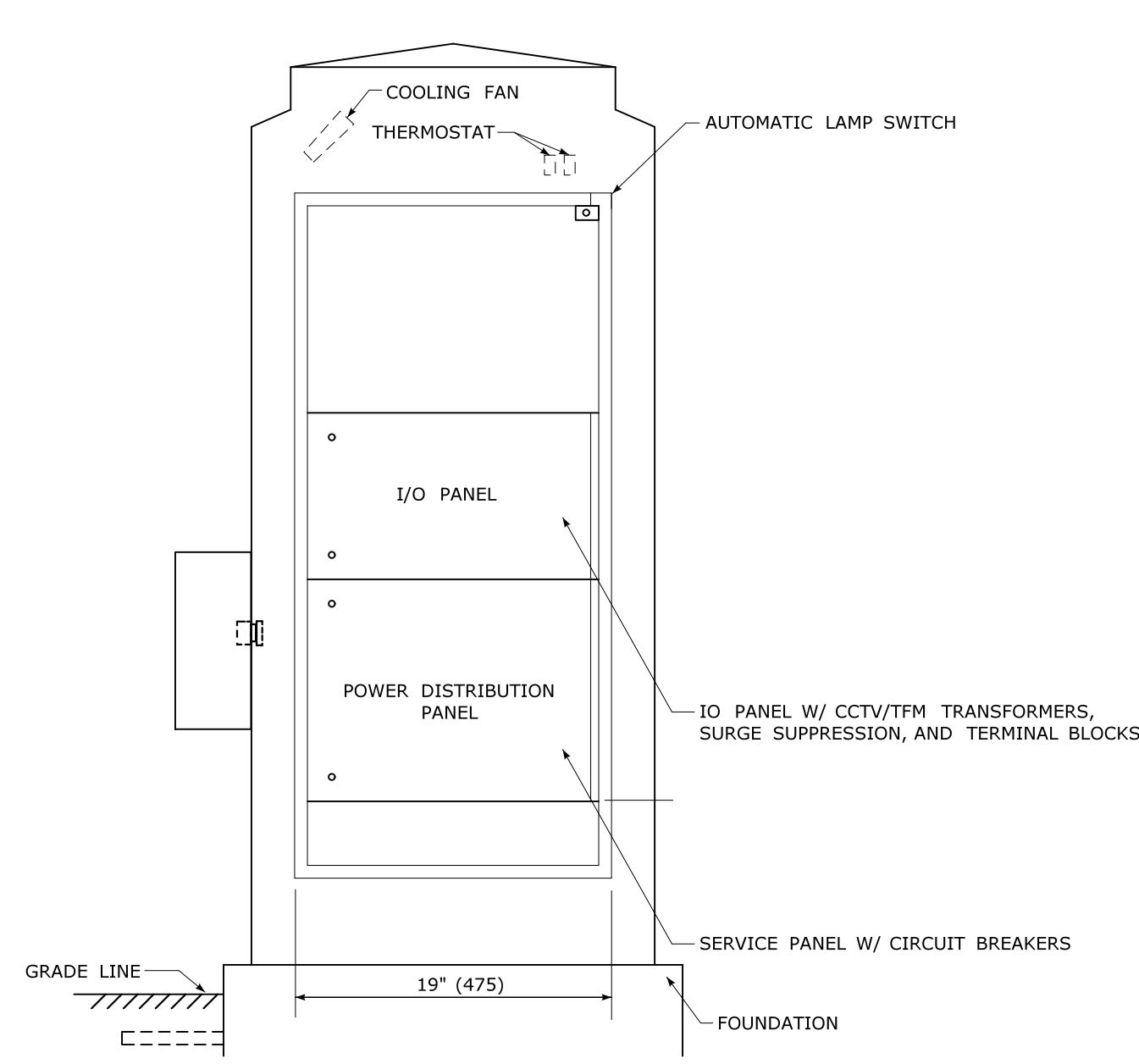
- NOTES:
- TFM - TRAFFIC FLOW MONITOR
 - TFM'S AND APPURTENANCES SHALL BE ATTACHED TO EXISTING STRUCTURES IN ACCORDANCE WITH THE FOLLOWING AND AS APPROVED BY THE ENGINEER:
 - * SETBACK DISTANCE IS DETERMINED FROM THE EDGE OF THE CLOSEST TRAVEL LANE.
 - 1. FIELD DRILL HOLES IN CONCRETE STRUCTURES, HOLE DIAMETER AND ANCHOR DEPTH FOR THE CHEMICAL ANCHORAGE TO BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - 2. CHEMICAL ANCHORS-SYSTEM APPROVED BE CONNECTICUT D.O.T. WITH THREADED RODS, ANCHOR BOLTS, NUTS AND WASHERS CONFORMING TO ASTM A449.
 - 3. BRACKET SUPPORT TO BE PROVIDED BY TRAFFIC FLOW MONITOR MANUFACTURER.
 - 4. THE BRACKETS SHALL BE ATTACHED WITH MANUFACTURER APPROVED 3/4" (20) WIDE, 0.02" (0.6) THICK, STAINLESS STEEL BANDS OR TO A CONCRETE WALL/BRIDGE USING 2 STAINLESS STEEL EXPANSION BOLTS OF SUFFICIENT LENGTH AND DIAMETER TO SUPPORT 100lbs. (45kg).
 - 5. CONTRACTOR SHALL FOLLOW MANUFACTURERS INSTALLATION REQUIREMENTS FOR DETERMINING TFM MOUNTING HEIGHT.

FINAL DESIGN REVIEW

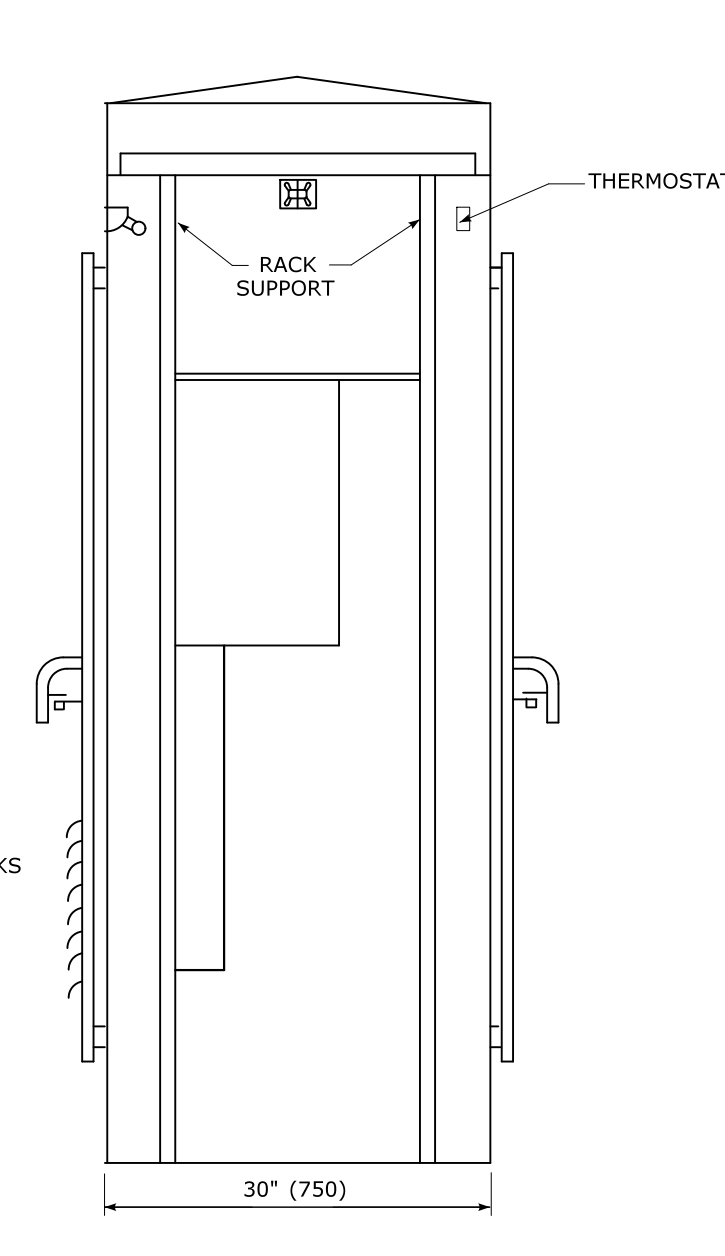
<table border="1"> <tr> <td>REV.</td> <td>DATE</td> <td>REVISION DESCRIPTION</td> <td>SHEET NO.</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table>	REV.	DATE	REVISION DESCRIPTION	SHEET NO.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<p>Plotted Date: 3/15/2021</p> <p>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.</p>	<p>DESIGNER/DRAFTER: D.K. SWINBURNE</p> <p>CHECKED BY: R.A. KENNEDY</p>	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p> <p>Filename: ...ID-XX-IMS-CTDOT-STANDARD DTLS.dgn</p>	<p>SIGNATURE/ BLOCK:</p>	<p>PROJECT TITLE: INCIDENT MANAGEMENT SYSTEM INSTALLATIONS ALONG ROUTE 9 AND ROUTE 72</p>	<p>TOWN: FARMINGTON TO CROMWELL</p> <p>DRAWING TITLE: RTMS DETAILS</p>	<p>PROJECT NO. 171-415/416</p> <p>DRAWING NO. ID-11</p> <p>SHEET NO.</p>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.																																				
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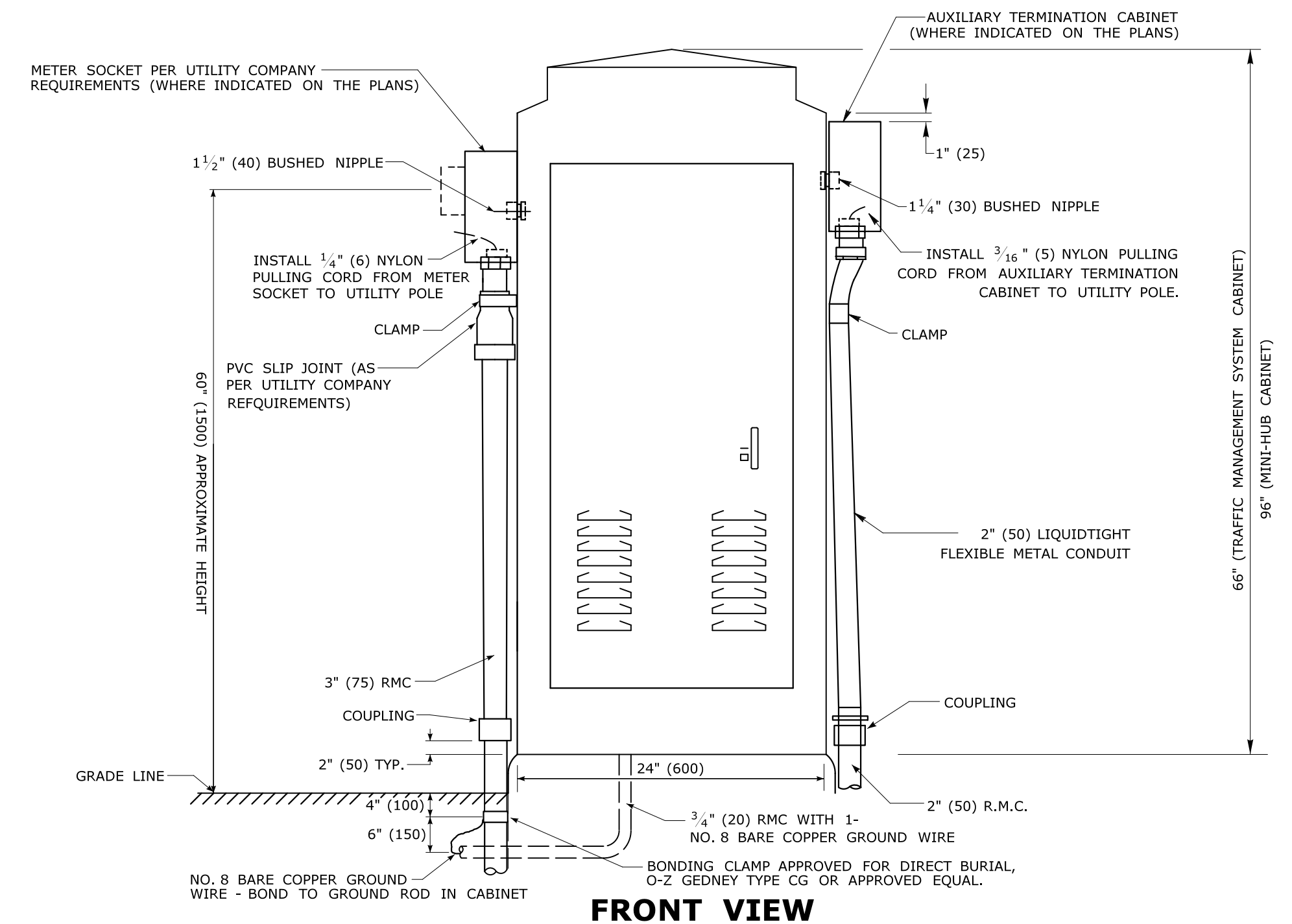
TRAFFIC MANAGEMENT SYSTEM CABINET (FRONT VIEW)



TRAFFIC MANAGEMENT SYSTEM CABINET (BACK VIEW)



SIDE VIEW (WITH SIDE PANEL REMOVED)



FRONT VIEW

TRAFFIC MANAGEMENT SYSTEM CABINET AND MINI-HUB CABINET

TRAFFIC MANAGEMENT SYSTEM CABINET AND MINI-HUB CABINET NOTES:

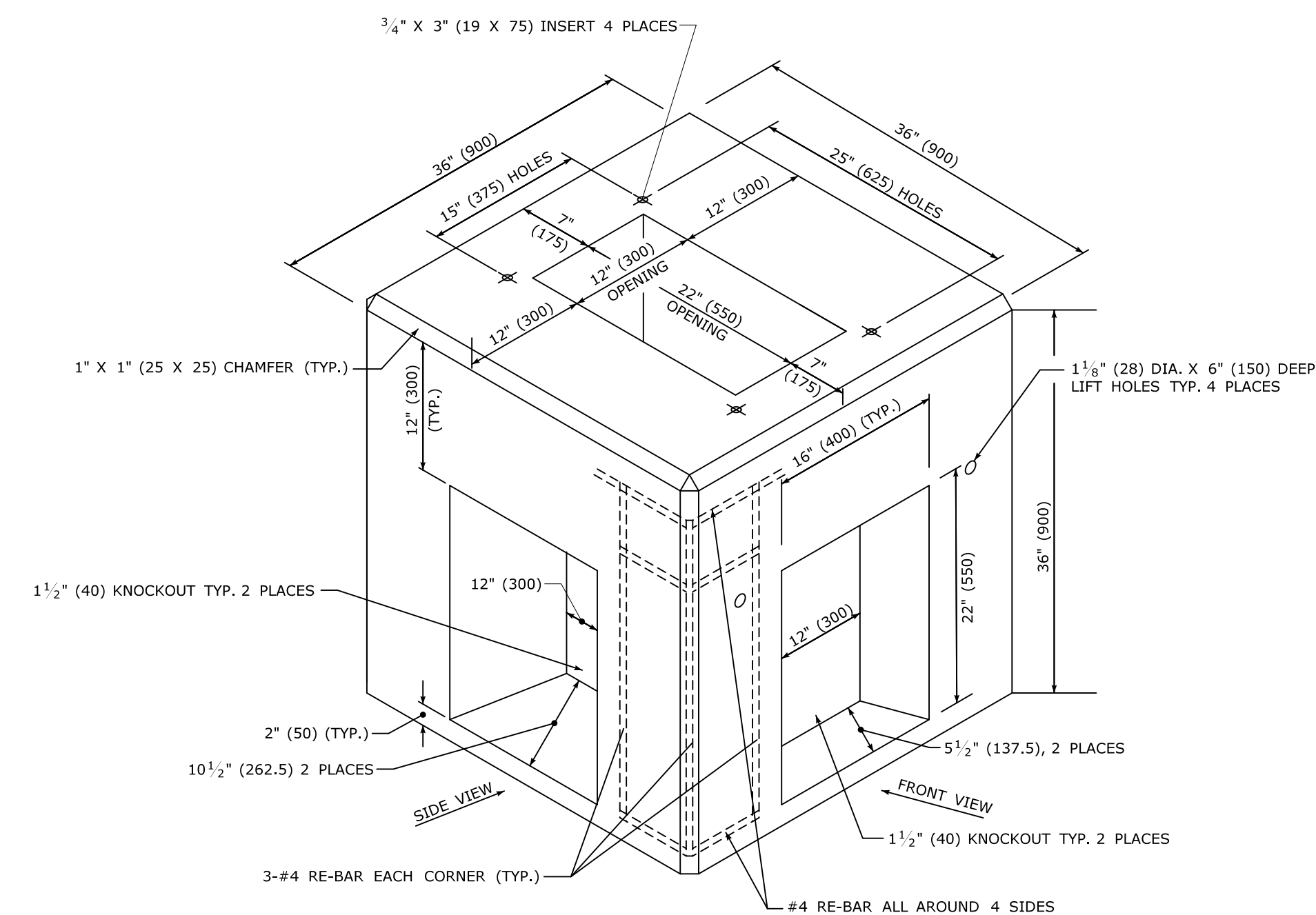
1. CAULK SEAM BETWEEN CABINET AND CONCRETE FOUNDATION.
2. INSTALL CONCRETE SIDEWALK ON FRONT AND BACK SIDE OF FOUNDATION, 36" X 36" (900 X 900), MIN. 4" (100) THICK PITCH SIDEWALK 1/4" PER FOOT (20 PER METER) AWAY FROM FOUNDATION AND INSTALL ON A MINIMUM 6" (150) GRANULAR FILL. SEE DWG. NO. MISC-01 FOR DETAILS.
3. DUCT SEAL ALL CONDUITS THAT CONTAIN CABLE. CAP ALL UNUSED CONDUITS.
4. VERIFY ANCHOR BOLT PATTERN WITH CABINET MANUFACTURER.
5. FRONT CABINET DOOR TO OPEN FIELD SIDE.
6. CABINET TO BE 170 TYPE.
7. FIELD CABINET FOUNDATION TO SUPPORT TRAFFIC MANAGEMENT SYSTEM CABINET OR MINI HUB CABINET.
8. TRANSFORMER TO BE ATTACHED TO CABINET ON SAME SIDE AS METER LOCATION. CABINETS WITH METERS WHERE SHOWN ON SITE PLANS SHALL NOT REQUIRE TRANSFORMERS.
9. ALL EQUIPMENT SHALL BE RACK MOUNTED.

TRAFFIC CONTROL FOUNDATION NOTES, GENERAL:

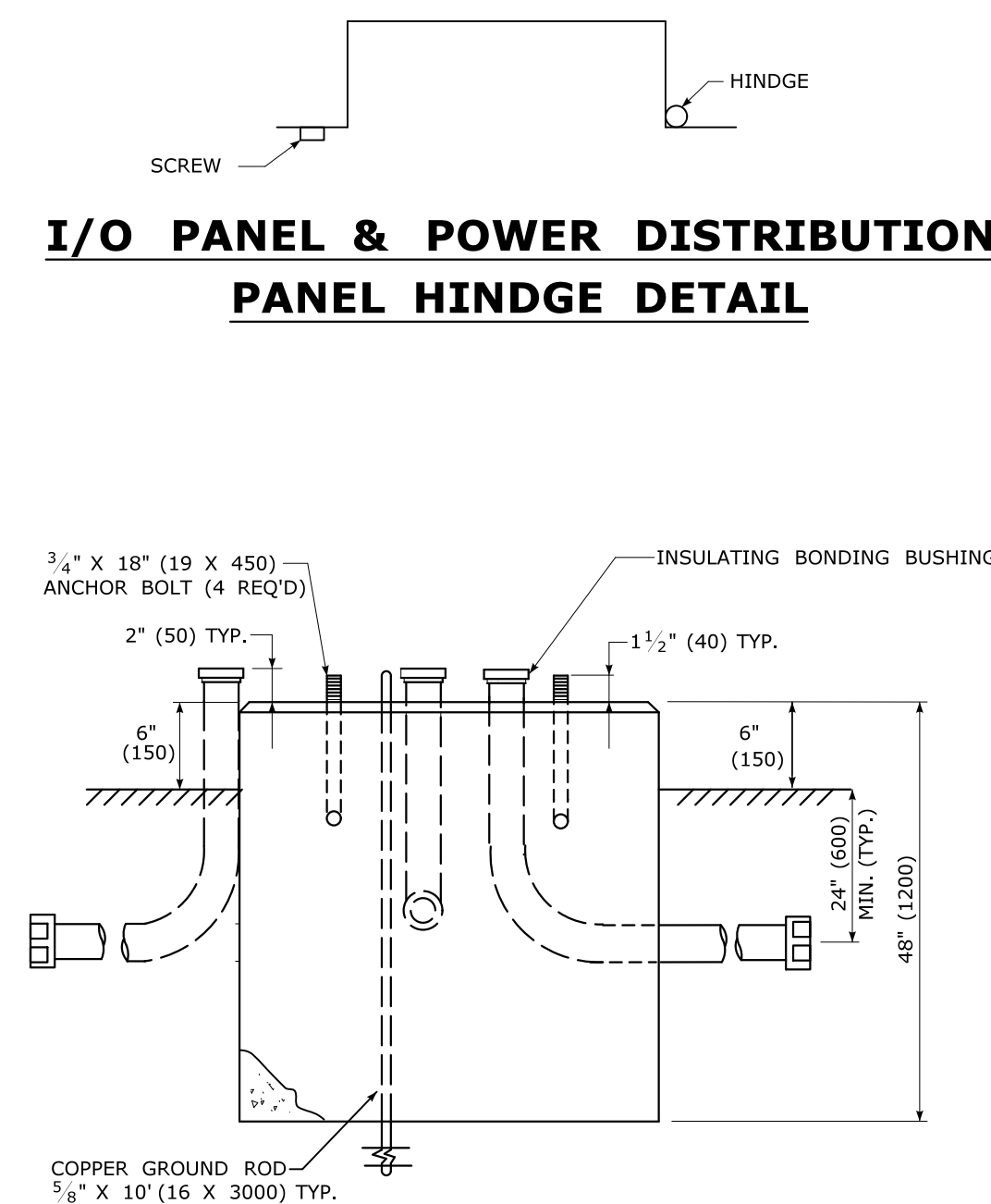
1. INSTALL FOUNDATION ON 6" (150) GRANULAR FILL, IN ACCORDANCE WITH SECTION 2.13.
2. LEVEL FOUNDATION WITH A PROJECTION OF 6" (150) ABOVE FINISHED GRADE.
3. CONCRETE: CLASS PCC04460 CONFORMING TO ARTICLE M.03.
4. #4 RE-BAR, 2" (50) MIN. COVER AROUND ALL OPENINGS. 3 - #4 RE-BARS IN EACH CORNER.
5. CONDUITS SHALL NOT PROJECT MORE THAN 2" (50) ABOVE FOUNDATION.
6. INSTALL A MINIMUM OF ONE SPARE 2" (50) RMC SWEEP IN THE FOUNDATION. SPARE SWEEP SHALL EXTEND A MINIMUM OF 24" (600) OUTSIDE THE FOUNDATION.

TRAFFIC CONTROL FOUNDATION NOTES, PRE-CAST:

1. PLACE NO. 6 CRUSHED STONE IN THE CENTER OPENINGS AFTER THE CONDUITS AND GROUND ROD HAVE BEEN INSTALLED. THE OPENINGS SHALL BE CAPPED WITH A 2" (50) GROUT LEVEL WITH THE TOP OF THE FOUNDATION AND NEATLY FINISHED. THE GROUT SHALL CONFORM WITH THE REQUIREMENTS OF ARTICLE M.03.05 - SEE FORM 818 WITH LATEST SUPPLEMENTS.
2. WEAKEN KNOCKOUT WALLS FOR PIPE INSTALLATION IN FIELD.
3. BOLT DOWN CABINET WITH 3/4" (19) HEX HEAD BOLTS 3" (75) LONG.
4. INSTALL A 5/8" X 10' (16 X 3000) COPPER GROUND ROD.



PRE-CAST



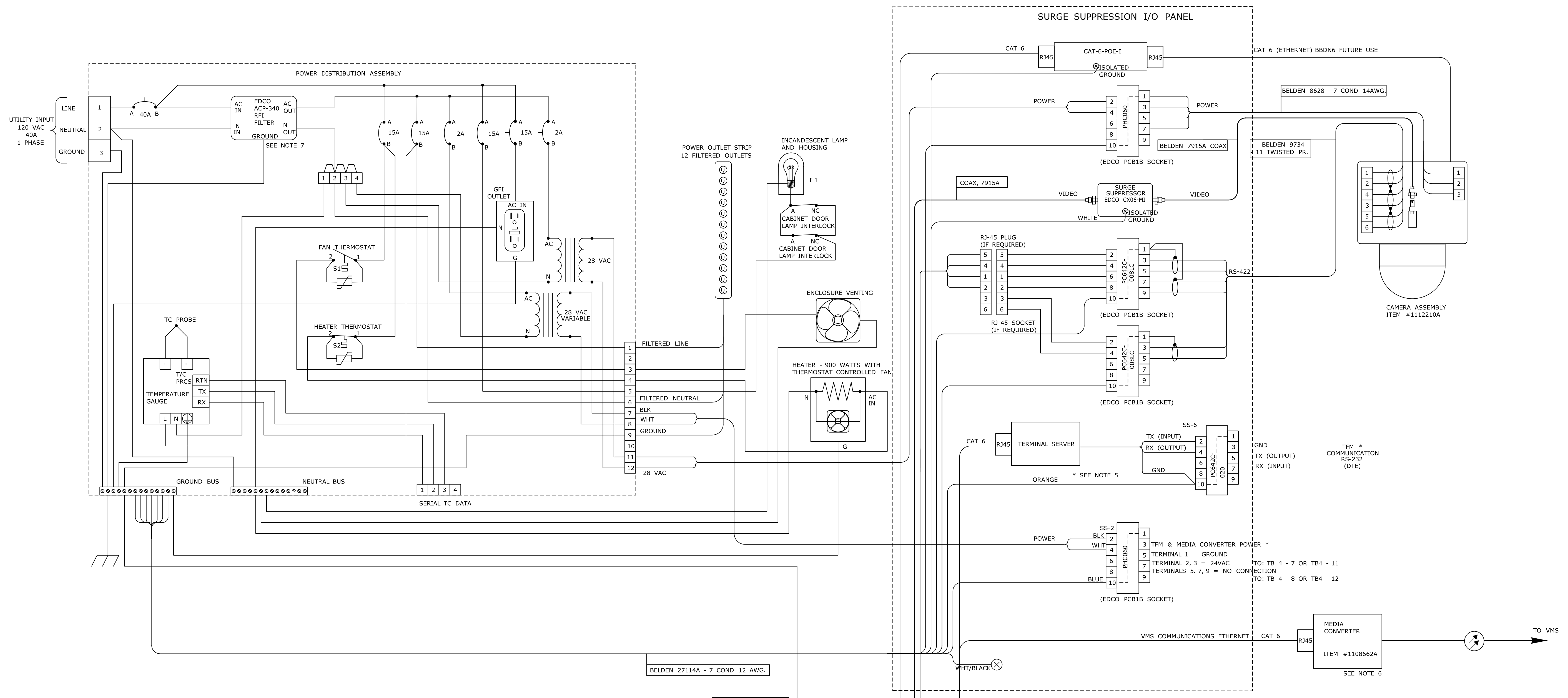
CAST IN PLACE

TRAFFIC CONTROL FOUNDATION - CONTROLLER - TYPE IV MODIFIED

FINAL DESIGN REVIEW

<table border="1"> <tr> <td>REV.</td> <td>DATE</td> <td>REVISION DESCRIPTION</td> <td>SHEET NO.</td> </tr> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </table>	REV.	DATE	REVISION DESCRIPTION	SHEET NO.					<p>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.</p>	<p>DESIGNER/DRAFTER: D.K. SWINBURNE</p> <p>CHECKED BY: R.A. KENNEDY</p>	<p>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</p>	<p>SIGNATURE/BLOCK:</p>	<p>PROJECT TITLE: INCIDENT MANAGEMENT SYSTEM INSTALLATIONS ALONG ROUTE 9 AND ROUTE 72</p>	<p>TOWN: MERIDEN TO ROCKY HILL</p>	<p>PROJECT NO. 171-415/416</p> <p>DRAWING NO. ID-12</p> <p>SHEET NO.</p>
REV.	DATE	REVISION DESCRIPTION	SHEET NO.												

DRAWING TITLE:
CAMERA CABINET DETAILS



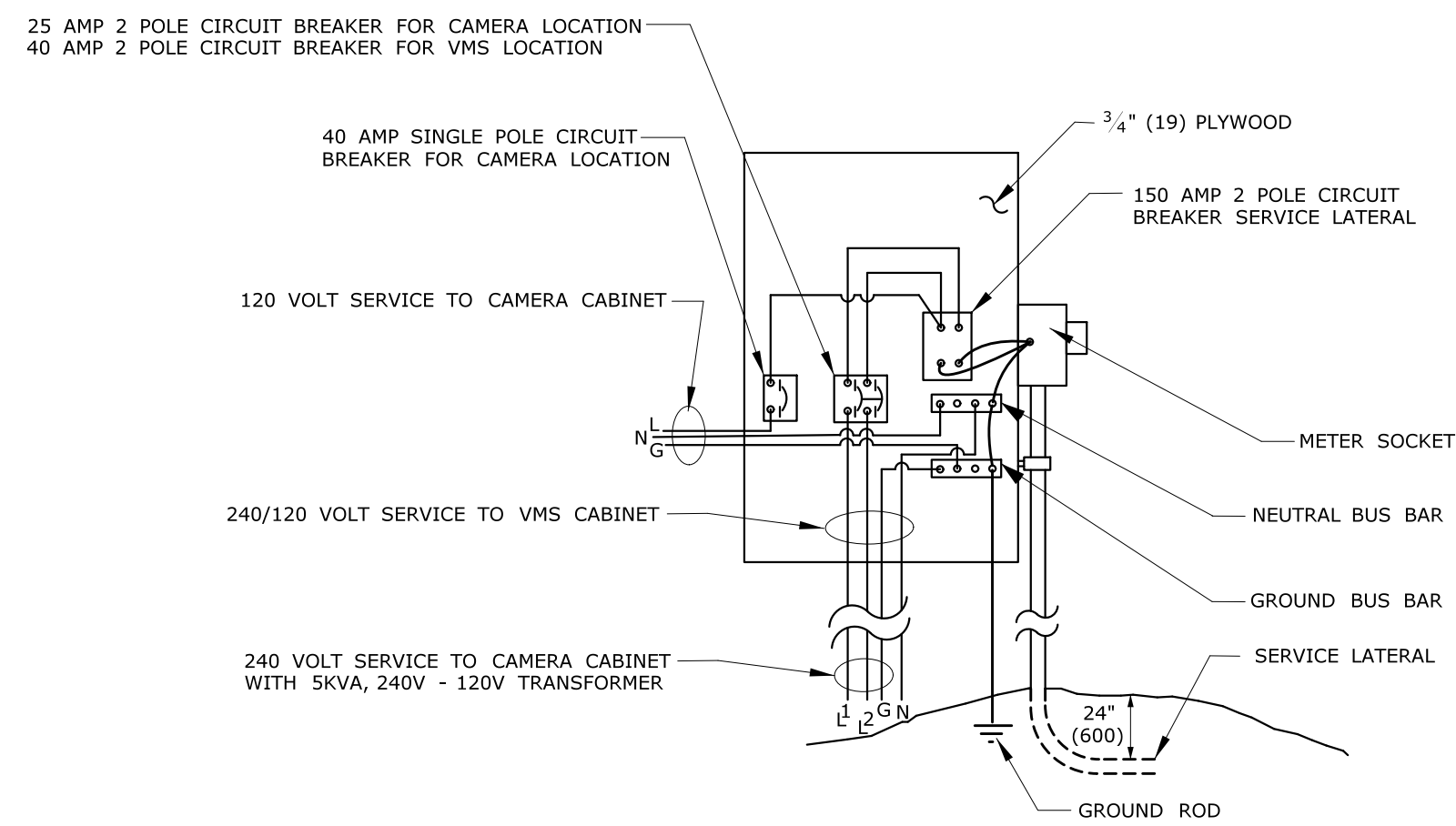
- NOTES:
- ALL WIRES SHOWN WITH ROUNDED CORNERS ARE PART OF CABLE ASSEMBLY. WIRES WITH SQUARE CORNERS ARE INDIVIDUAL RUNS OF WIRE.
 - WIRE CONNECTIONS ARE SHOWN AS:

CONNECTIONS

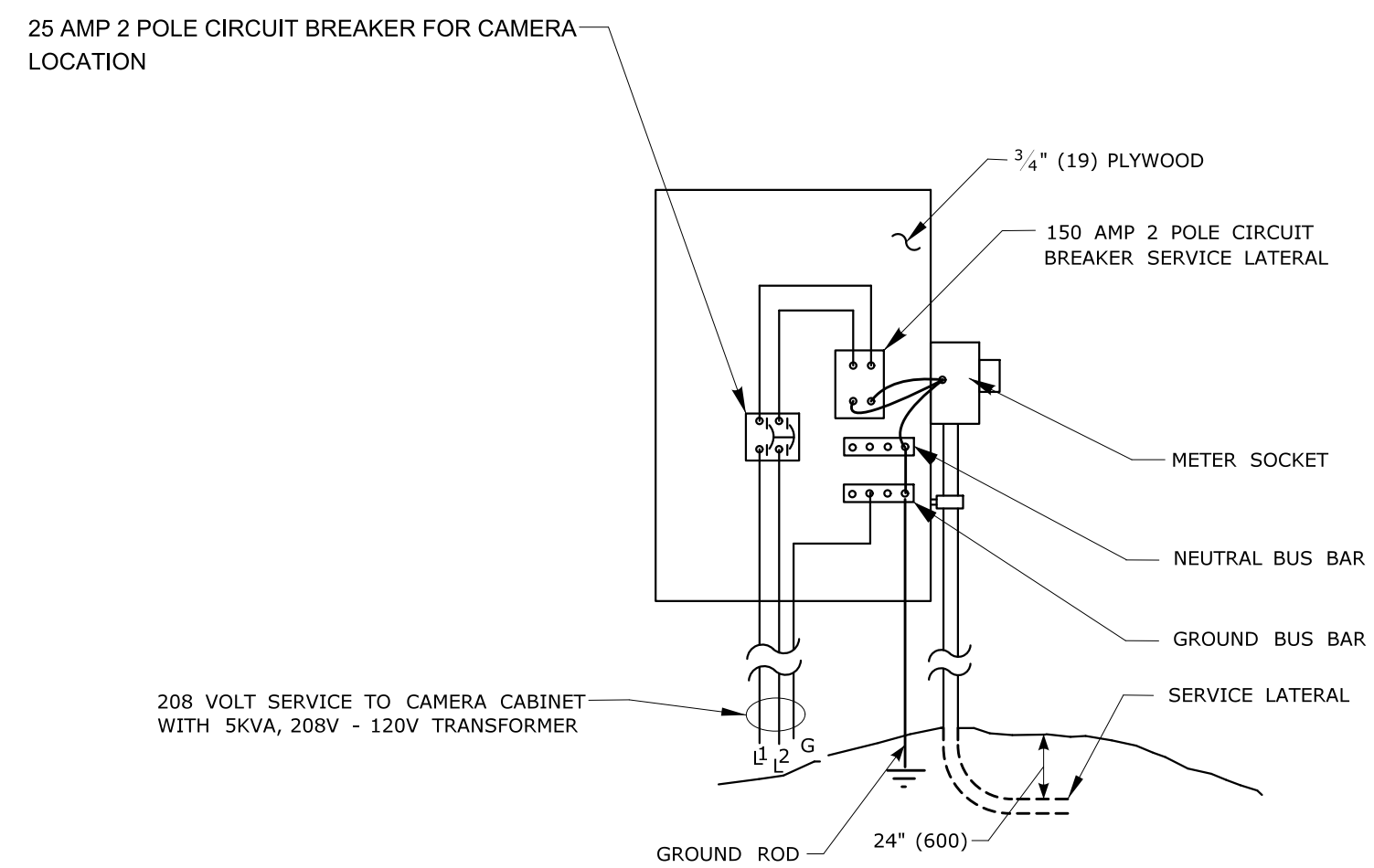
NO CONNECTIONS
 - ALL WIRES WILL BE LABELED TO INDUSTRY STANDARDS USING SLIP ON WIRE MARKERS WITH BOTH ENDS LABELED TO IDENTIFY EACH END OF THE WIRE.
 - THIS SHEET IS SHOWN AS TYPICAL. ACTUAL WIRING AND LAYOUT IS DEPENDENT ON MATERIAL SUBMITTED AND APPROVED.
 - THE WIRING / SURGE SUPPRESSION I/O PANEL SHALL BE WIRED FOR A MINIMUM OF THREE (3) TRAFFIC FLOW MONITORS TERMINATIONS WITH SURGE SUPPRESSION. SURGE SUPPRESSION AND TERMINAL SERVER SHALL BE SUPPLIED BY TFM MANUFACTURER.
 - MEDIA CONVERTORS MUST BE USED WHEN COMMUNICATION CABLE EXCEEDS 200FT (61M) TO REMOTE VMS CONTROLLER.
 - AN EDCO SHA 1230 MUST BE USED IN MINHUB CABINET.
 - AN EDCO LCDP-030 IS REQUIRED ONLY WHEN A MEDIA CONVERTER IS NOT INSTALLED.

FINAL DESIGN REVIEW

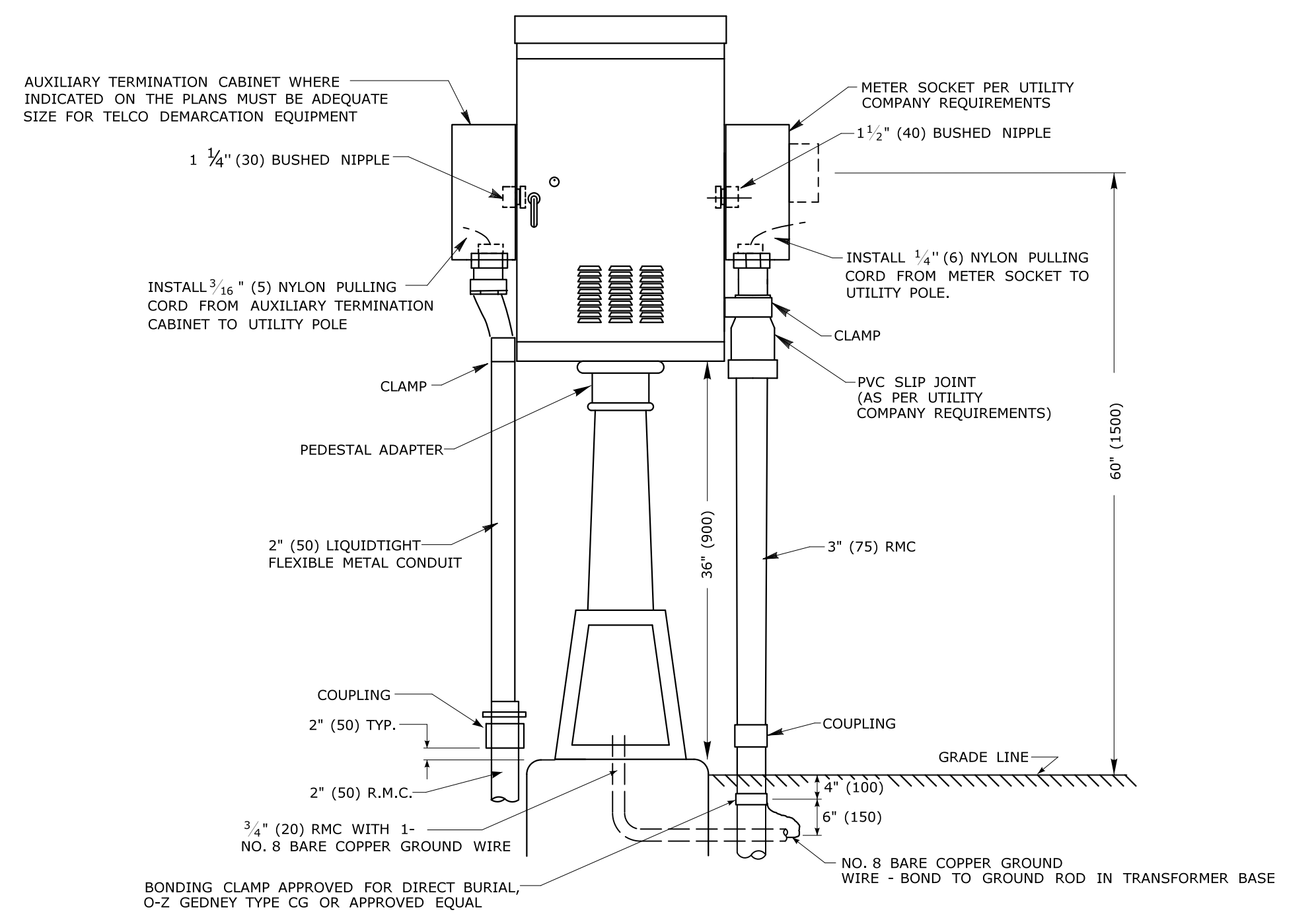
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.												



SERVICE CABINET LAYOUT
SERVICE (120 VOLT, 240 VOLT AND 240/120 VOLT)

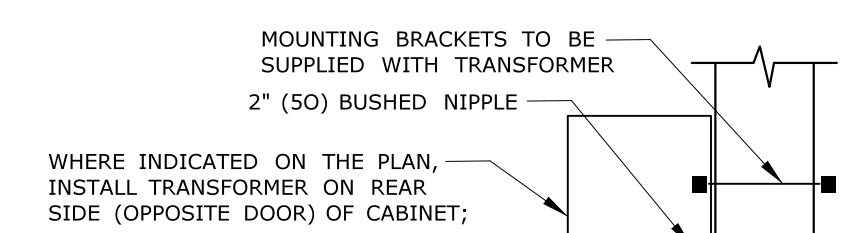


SERVICE CABINET LAYOUT
SERVICE (208 VOLT)

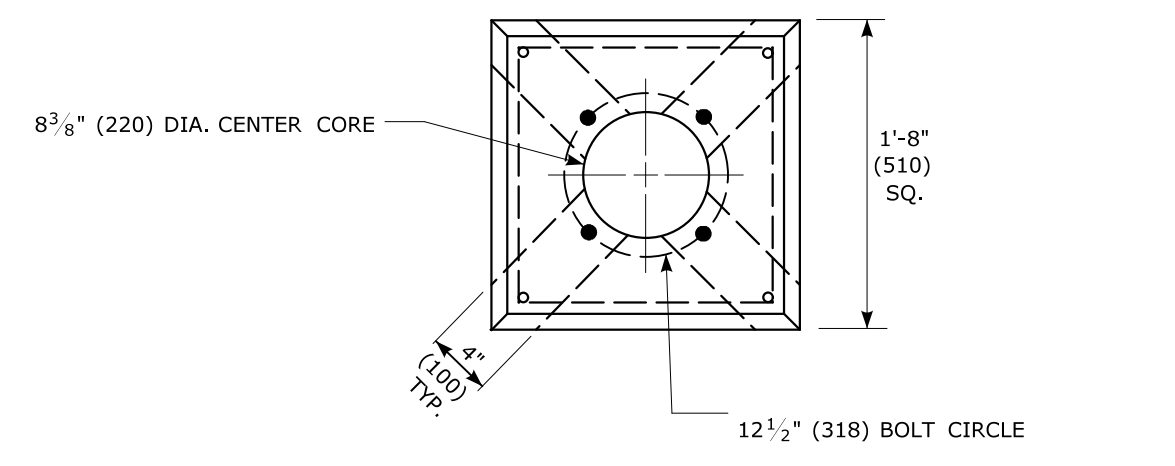


PEDESTAL MOUNTED CABINET

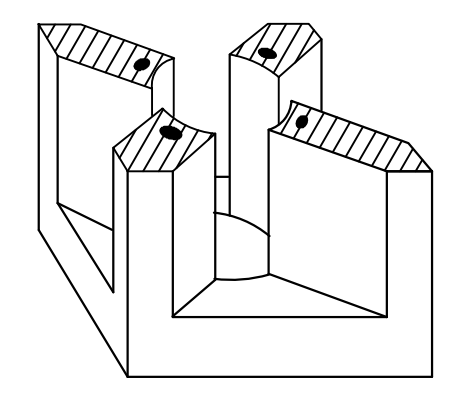
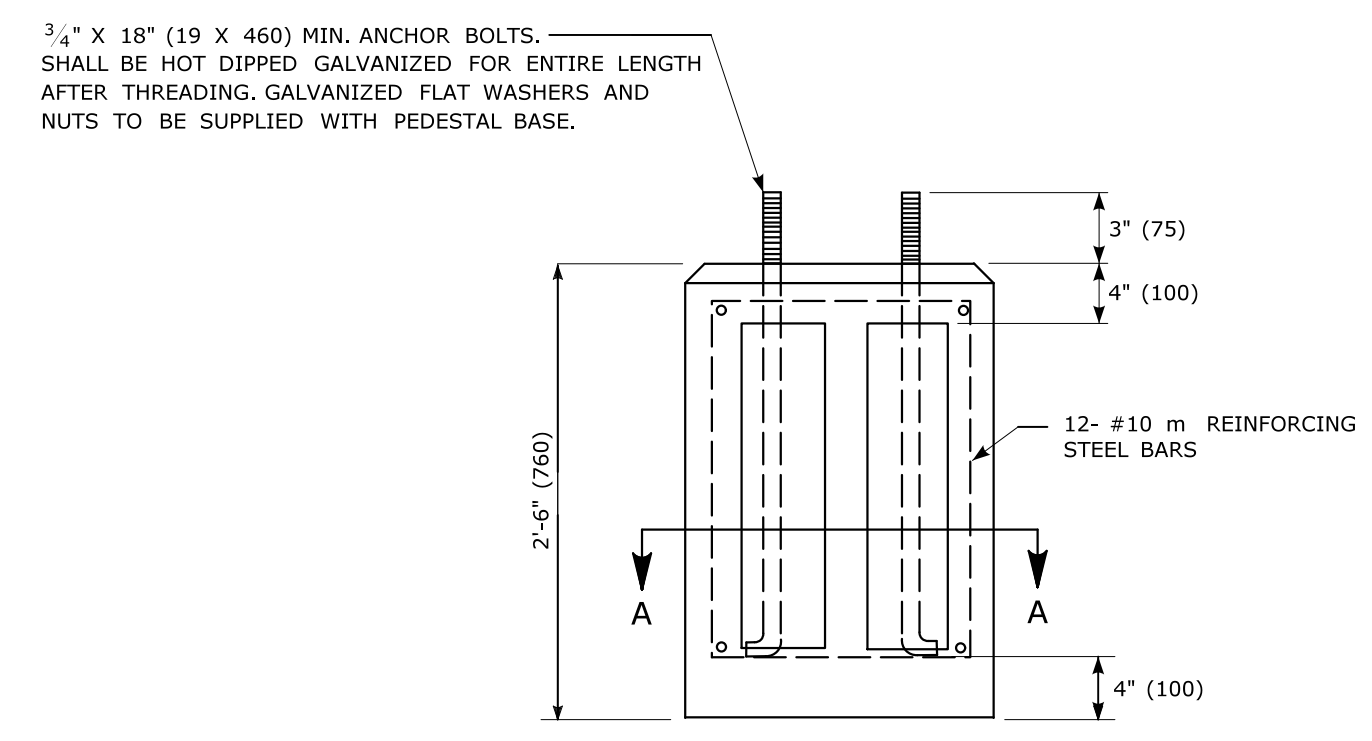
CABINET TYPE	HEIGHT	WIDTH	DEPTH
SERVICE CABINET	36" (900)	20" (500)	16" (400)
AUX. TERM. CABINET	16" (400)	12" (300)	8" (200)



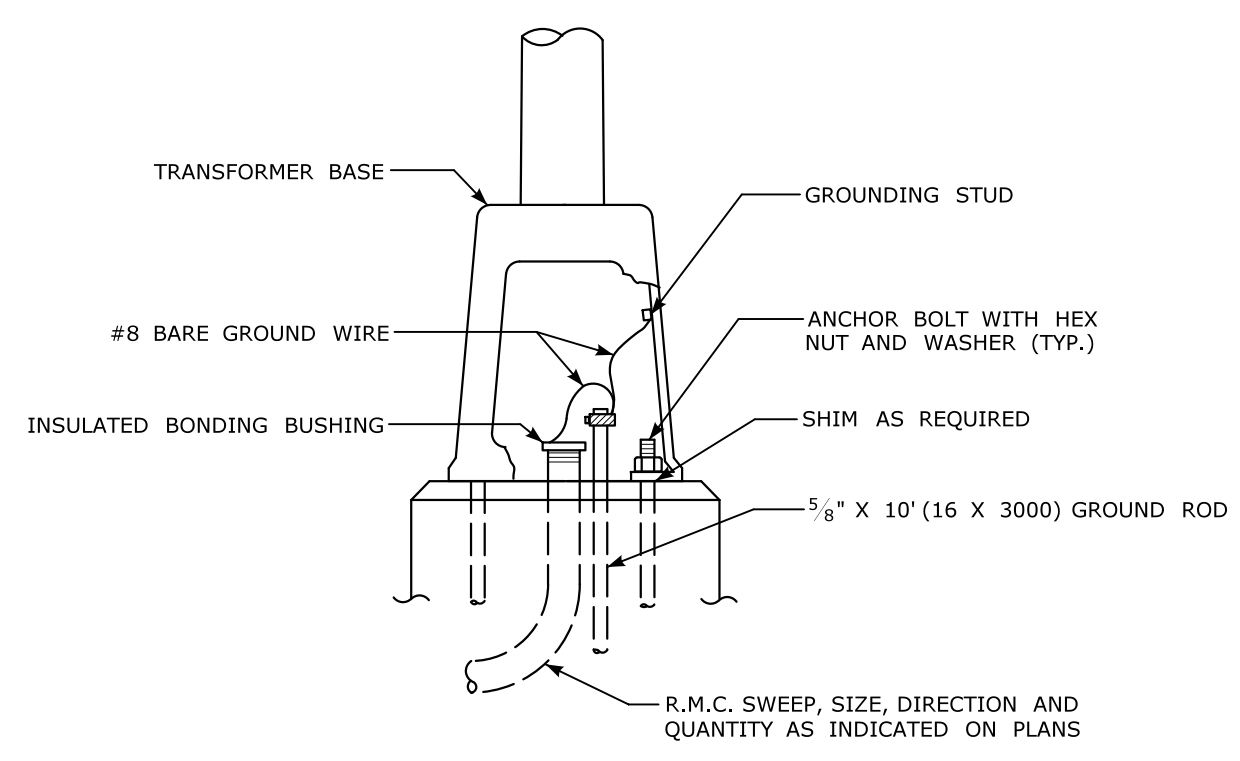
TRANSFORMER MOUNTING



PRECAST PEDESTAL BASE - TYPE I

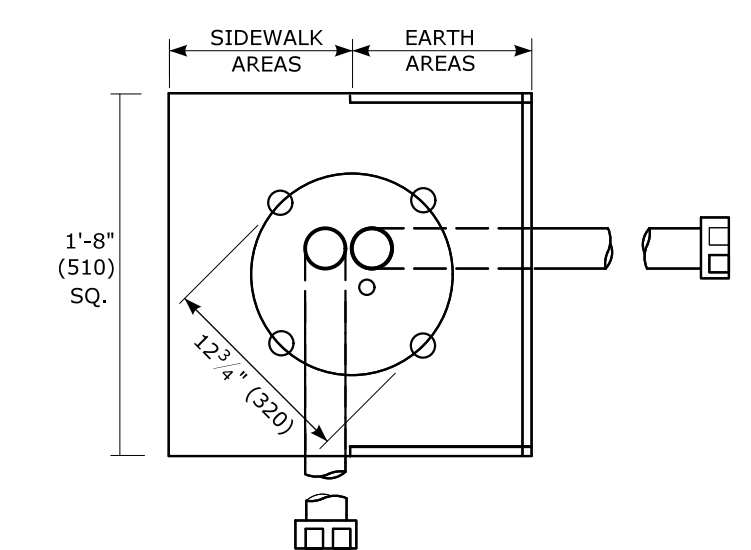


SECTION A - A

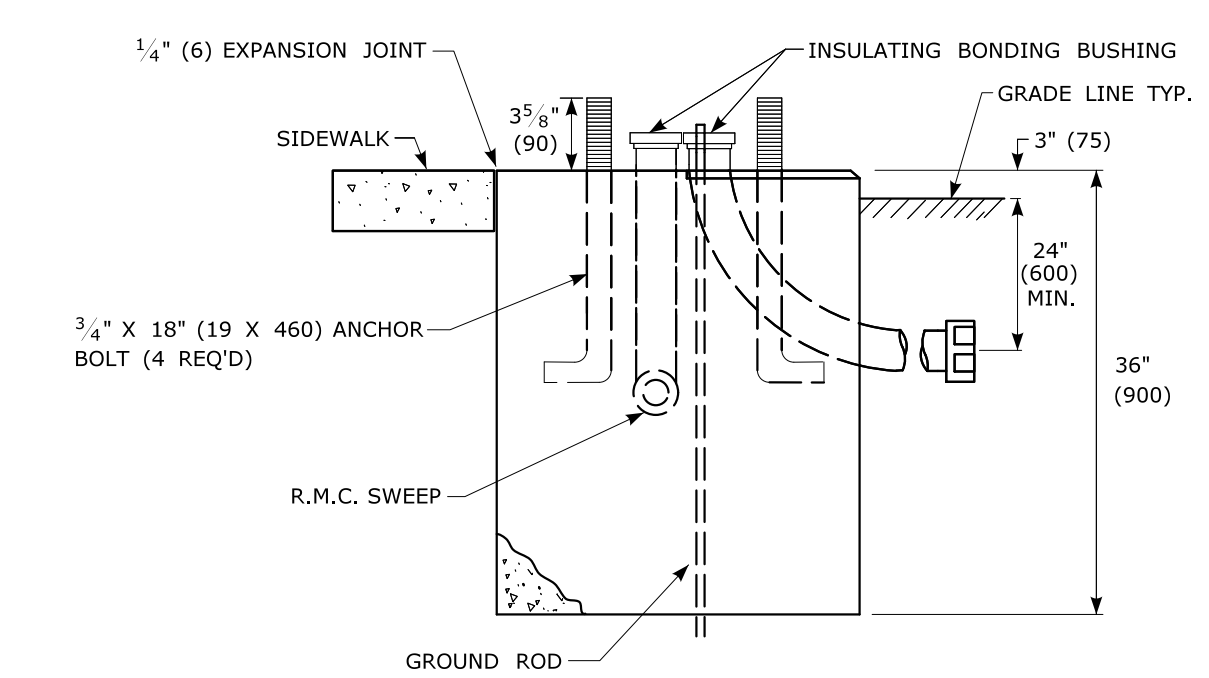


36" (900) ALUMINUM PEDESTAL

NOTES:
PLACE NO. 6 CRUSHED STONE IN CENTER OPENING AFTER CONDUITS AND GROUND ROD HAVE BEEN INSTALLED. THE OPENING SHOULD BE CAPPED WITH 2" (50) GROUT LEVEL WITH THE TOP OF FOUNDATION AND NEATLY FINISHED. THE GROUT SHALL CONFORM WITH THE REQUIREMENTS OF ARTICLE M.03.05 - SEE FORM #18 WITH LATEST SUPPLEMENTS.

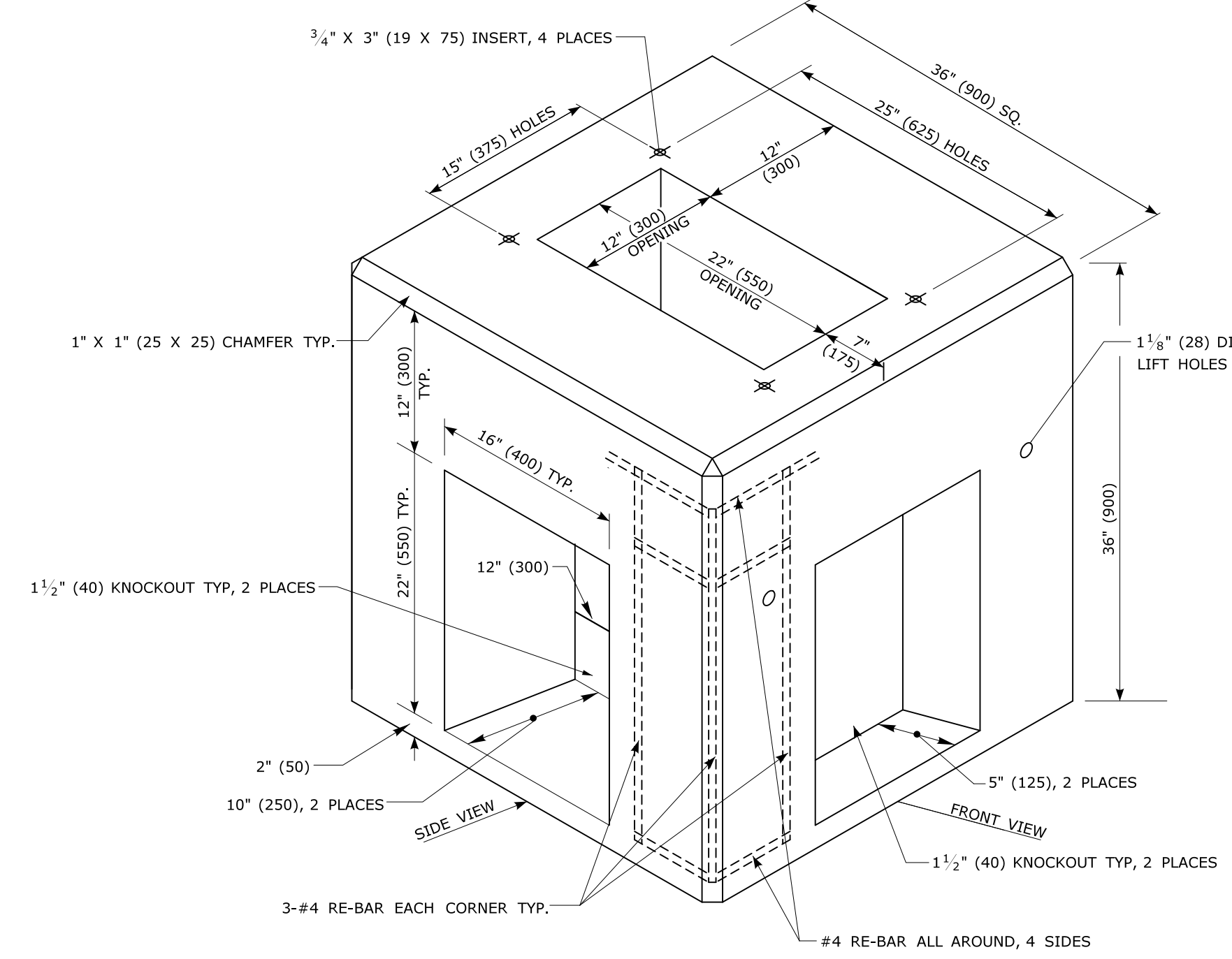
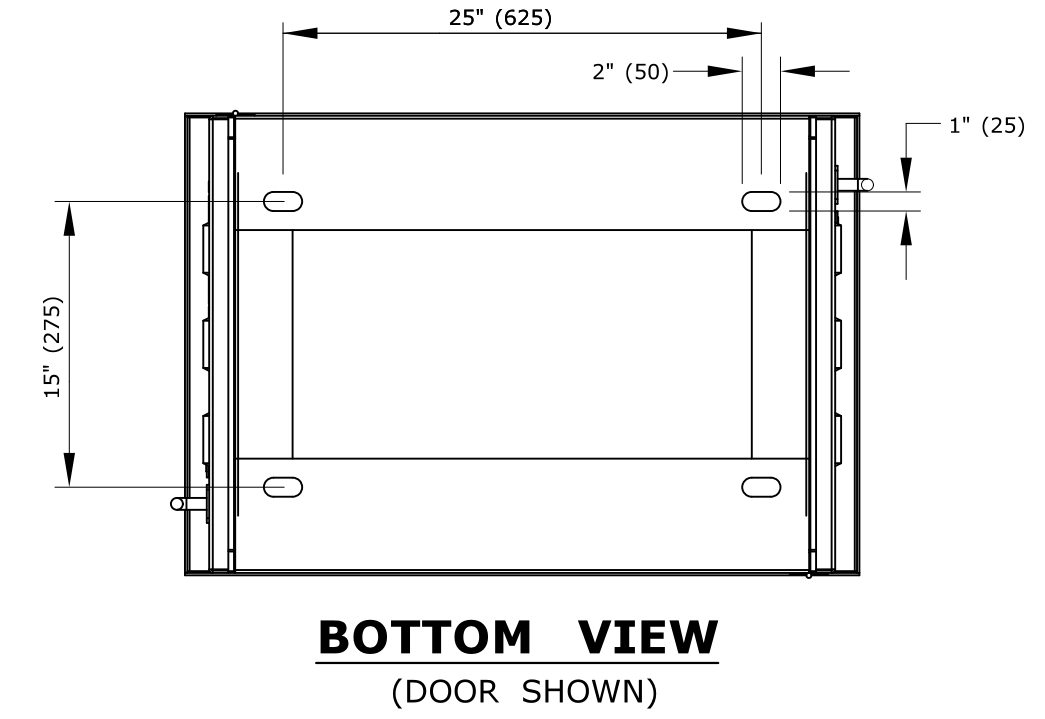
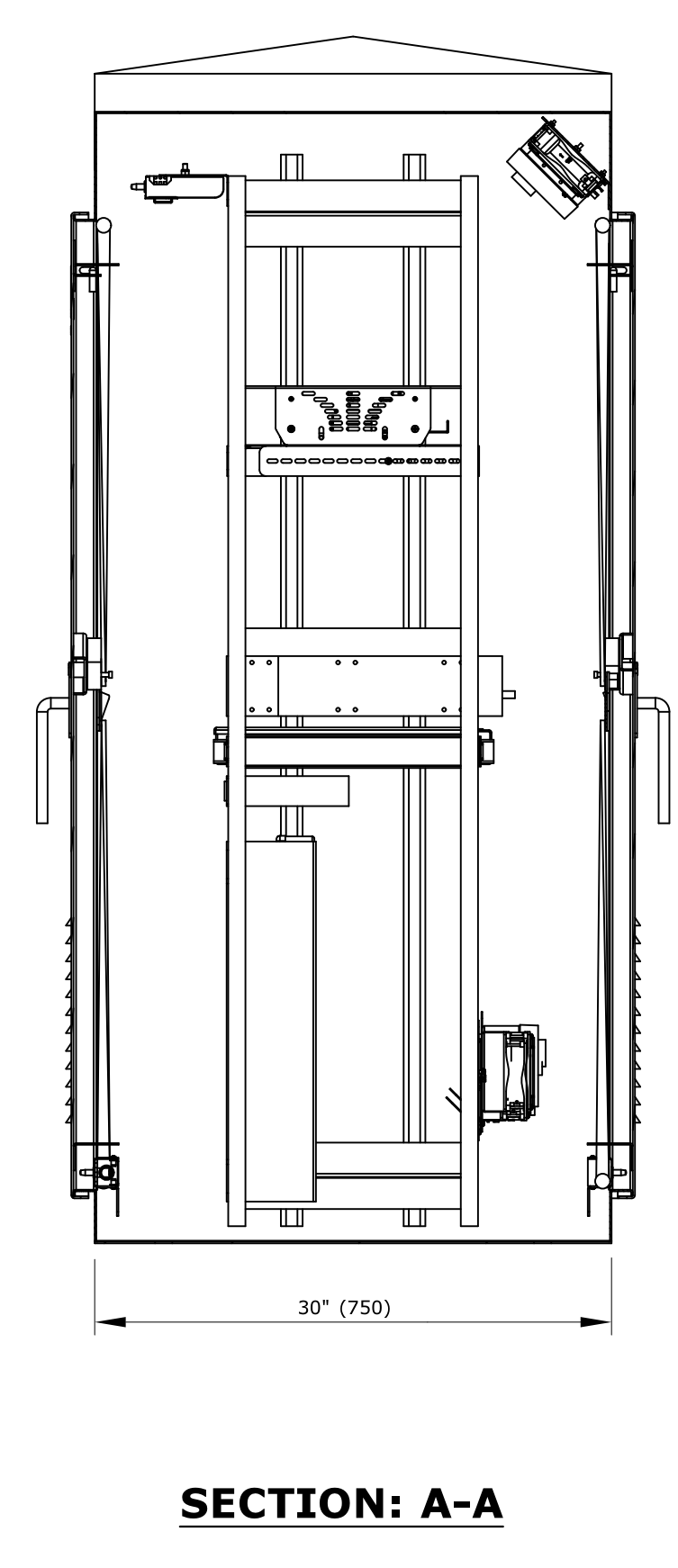
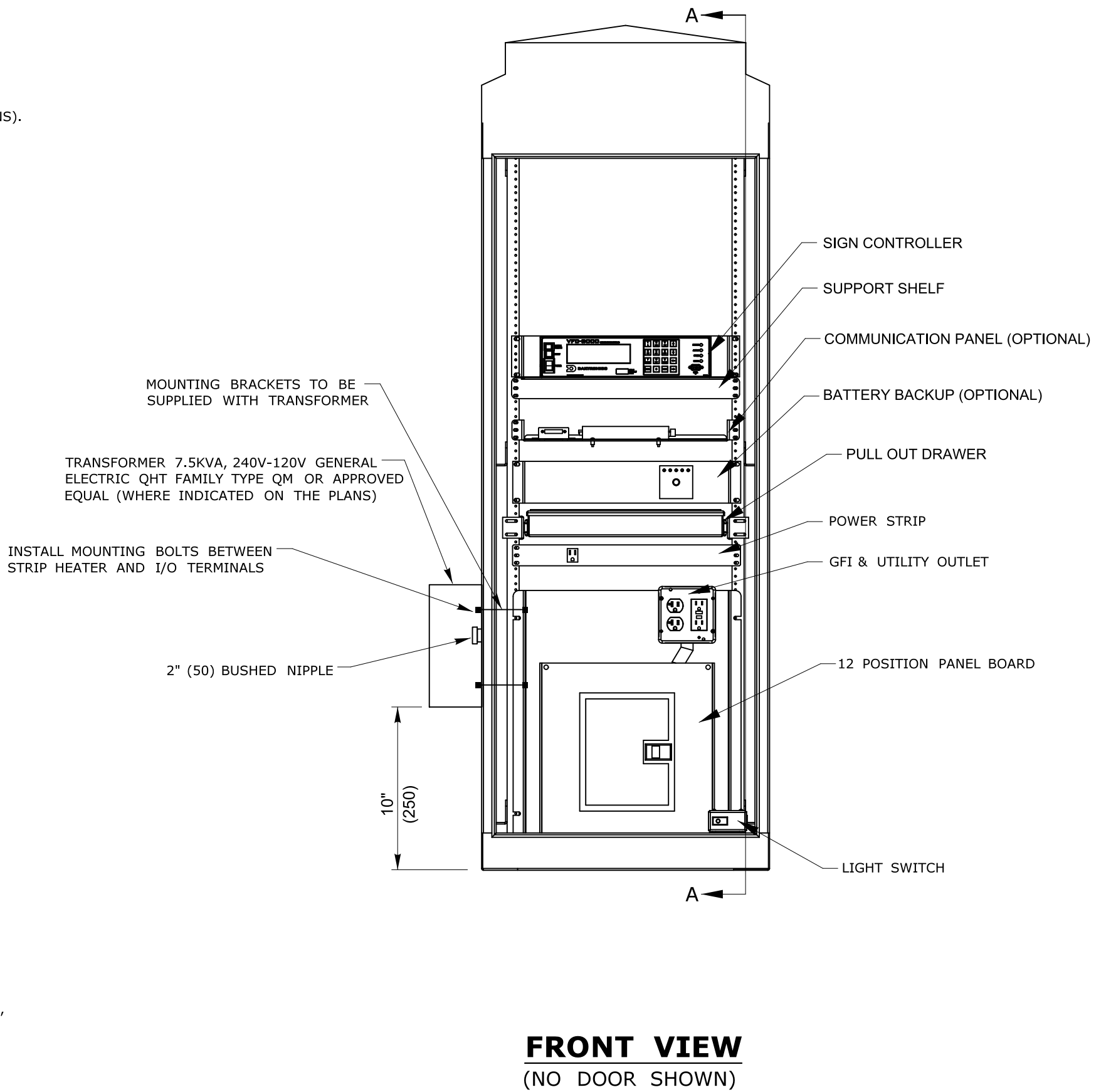
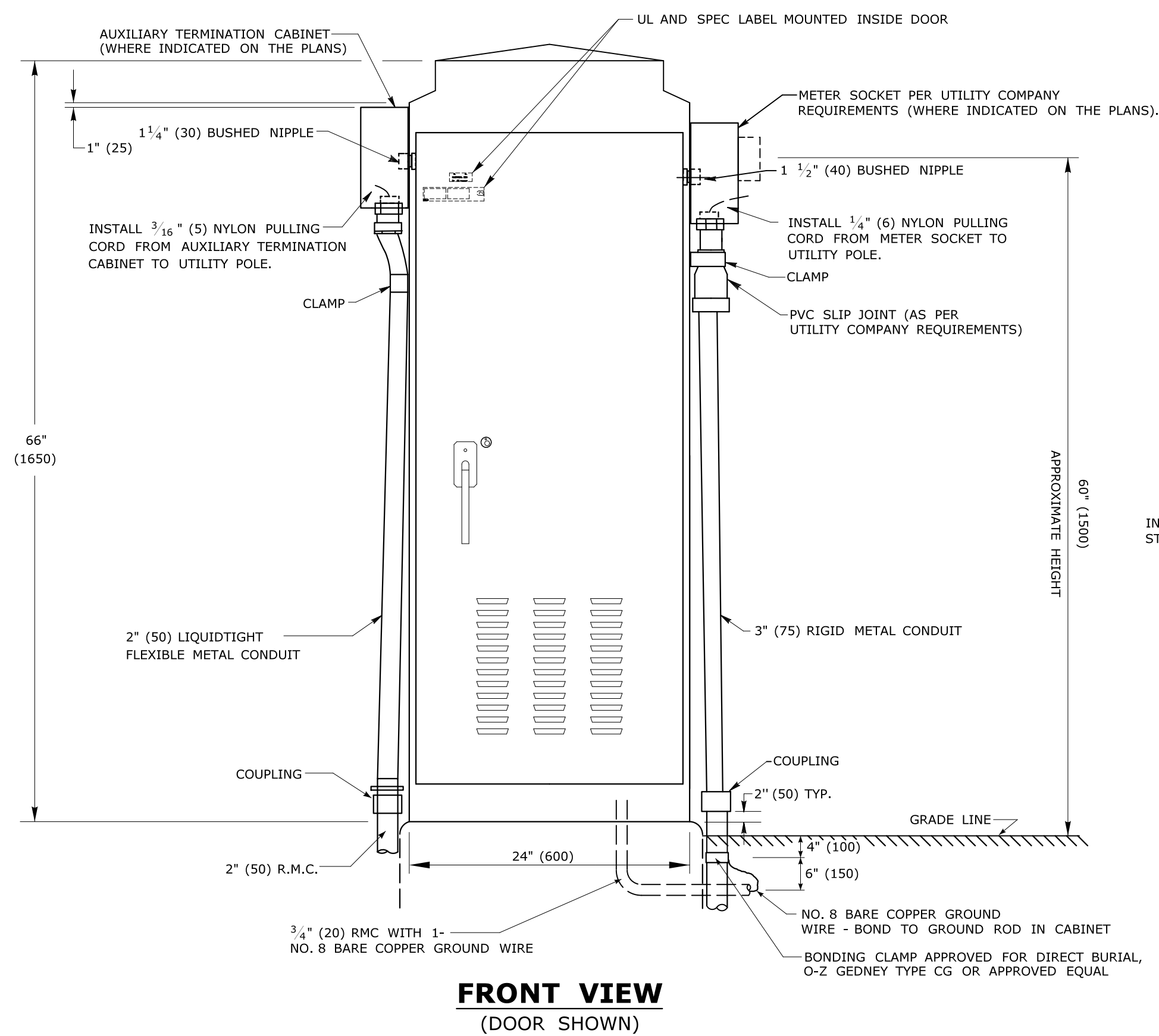


TRAFFIC CONTROL FOUNDATION PEDESTAL TYPE I



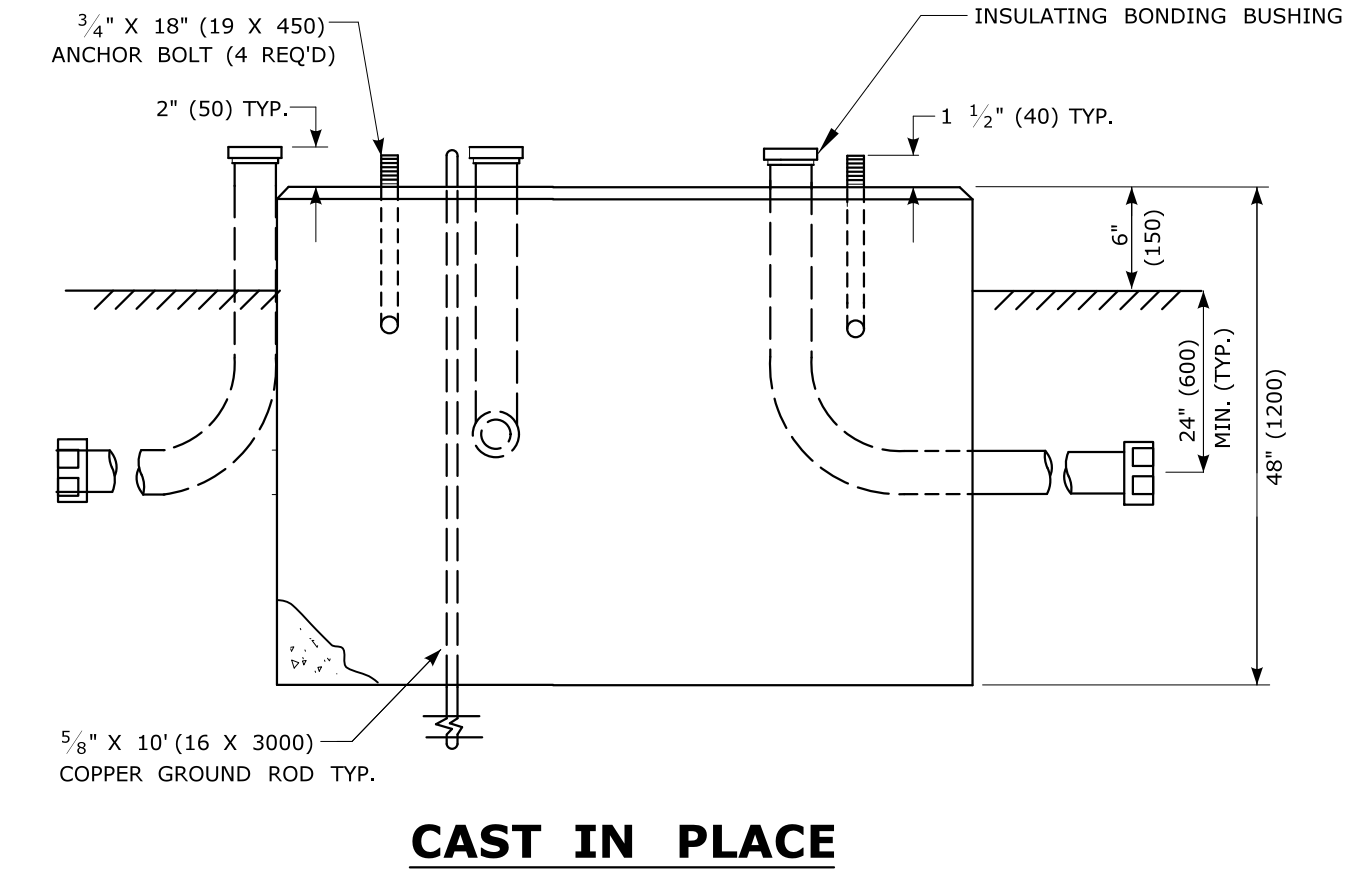
FINAL DESIGN REVIEW

REV. DATE REVISION DESCRIPTION SHEET NO.	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.	DESIGNER/DRAFTER: D.K. SWINBURNE CHECKED BY: R.A. KENNEDY SCALE IN FEET 0 20 40 SCALE 1"=20' Plotted Date: 3/15/2021	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION Filename: ...UD-XX-IMS-CTDOT-STANDARD DTL.S.dgn	SIGNATURE/ BLOCK: PROJECT TITLE: INCIDENT MANAGEMENT SYSTEM INSTALLATIONS ALONG ROUTE 9 AND ROUTE 72	TOWN: FARMINGTON TO CROMWELL DRAWING TITLE: TYPICAL ELECTRICAL AND ATC DETAILS	PROJECT NO. 171-415/416 DRAWING NO. ID-14 SHEET NO.
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- TRAFFIC CABINET NOTES:**
- PAD MOUNT CONFIGURATION
 - 0.125" (3) ALUMINUM, 5052-H34 CONSTRUCTION WITH CONTINUOUSLY WELDED EXTERNAL SEAMS.
 - THREE POINT LATCH WITH STAINLESS STEEL HANDLE
 - DOUBLE FLANGED DOOR SEAL WITH 1/4" X 2" (6 X 50) CLOSED CELL NEOPRENE GASKET.
 - FULL LENGTH EIA GAGE FOR 19" (475) EQUIPMENT
 - ADJUSTABLE PULL OUT DRAWER
 - DOOR OPENING: 21.50" X 54.75" (538 X 1369).
 - FULL LENGTH STAINLESS STEEL HINGE
 - ALL STAINLESS STEEL HARDWARE
 - CORBIN LOCK KEYED TO CORBIN #2
 - NEMA 3R ENCLOSURE
 - SHIPPED ON A WOOD PALLET
 - INSTALL CONCRETE SIDEWALK ON FRONT AND BACK SIDE OF FOUNDATION 36" X 36", 4" THICK MIN. (900 X 900, 100 THICK MIN.). PITCH SIDEWALK 1/4" PER FOOT (20 PER METER) AWAY FROM FOUNDATION AND INSTALL ON A MINIMUM 6" (150) GRAVEL OR MISCELLANEOUS AGGREGATE BASE, COMPACTED.

- TRAFFIC CONTROL FOUNDATION NOTES, GENERAL:**
- INSTALL FOUNDATION ON 6" (150) COMPACTED GRAVEL, IN ACCORDANCE WITH SECTION 2.14.
 - LEVEL FOUNDATION WITH A PROJECTION OF 6" (150) ABOVE FINISHED GRADE.
 - CONCRETE: CLASS "F" CONFORMING TO ARTICLE M. 03-01.
 - #4 RE-BAR 2" (50) MIN. COVER AROUND ALL OPENINGS. 3 - #4 RE-BARS IN EACH CORNER.
 - CONDUITS SHALL NOT PROJECT MORE THAN 2" (50) ABOVE FOUNDATION.
 - INSTALL A MINIMUM OF ONE SPARE 2" (50) RMC SWEEP IN THE FOUNDATION. SPARE SWEEP SHALL EXTEND A MINIMUM OF 24" (600) OUTSIDE THE FOUNDATION.
- TRAFFIC CONTROL FOUNDATION NOTES, PRE-CAST:**
- PLACE NO. 6 CRUSHED STONE IN THE CENTER OPENINGS AFTER THE CONDUITS AND GROUND ROD HAVE BEEN INSTALLED. THE OPENINGS SHALL BE CAPPED WITH A 2" (50) GROUT LEVEL WITH THE TOP OF THE FOUNDATION AND NEATLY FINISHED. THE GROUT SHALL CONFORM WITH THE REQUIREMENTS OF ARTICLE M. 03.01-12.
 - WEAKEN KNOCKOUT WALLS FOR PIPE INSTALLATION IN FIELD.
 - BOLT DOWN CABINET WITH 3/4" (19) HEX HEAD BOLTS 3" (75) LONG.
 - INSTALL A 5/8" X 10' (16 X 3000) COPPER GROUND ROD.



FINAL DESIGN REVIEW

	GREENWICH TO WESTPORT	PROJECT NO. 173-496
VMS RELOCATION AND REPLACEMENT ALONG I-95 AND US 7	VMS CONTROLLER CABINET AND FOUNDATION	DRAWING NO. ID-10
		SHEET NO.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/15/2021

DESIGNER/DRAFTER:
D.K. SWINBURNE

CHECKED BY:
R.A. KENNEDY

**STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION**

SCALE IN FEET
0 20 40
SCALE 1"=20'

File name: ...ID-XX-IMS-CTDOT-STANDARD DTL5.dgn

SIGNATURE/BLOCK:

PROJECT TITLE:
VMS RELOCATION AND REPLACEMENT ALONG I-95 AND US 7

TOWN:
GREENWICH TO WESTPORT

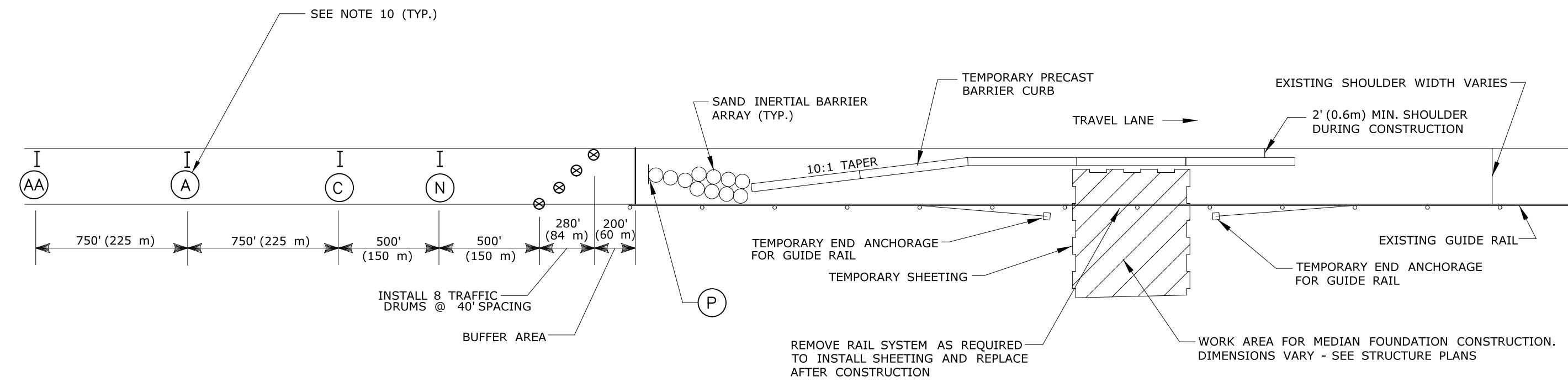
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VMS CONTROLLER CABINET AND FOUNDATION

PROJECT NO.
173-496

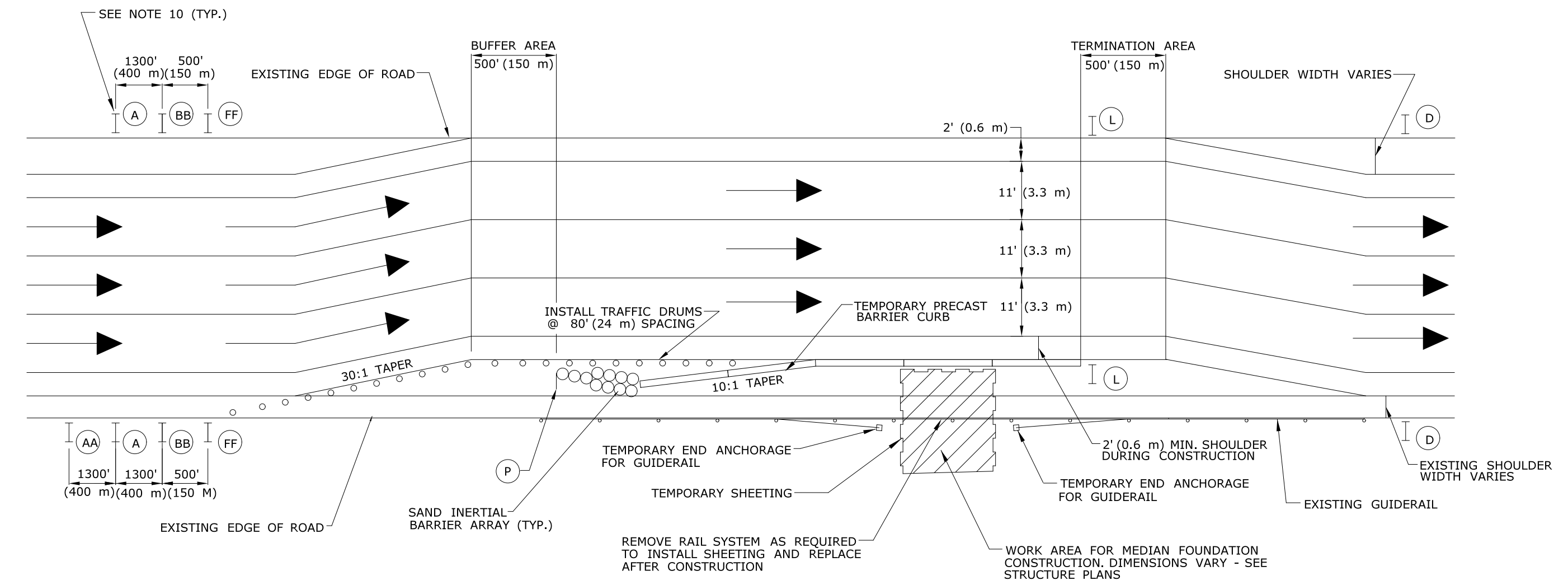
DRAWING NO.
ID-10

SHEET NO.

NOTE:
UNLESS OTHERWISE NOTED, ALL WORK ITEMS AS SHOWN ON DWG. MPT-1 ARE SPECIFIC TO THE CONSTRUCTION OF VMS FOUNDATIONS AND ARE INCLUDED IN THE PRICE BID FOR ITEM 1202247A.



VMS FOUNDATION WORK IN SHOULDER



VMS FOUNDATION WORK IN TRAVEL LANE AND SHOULDER

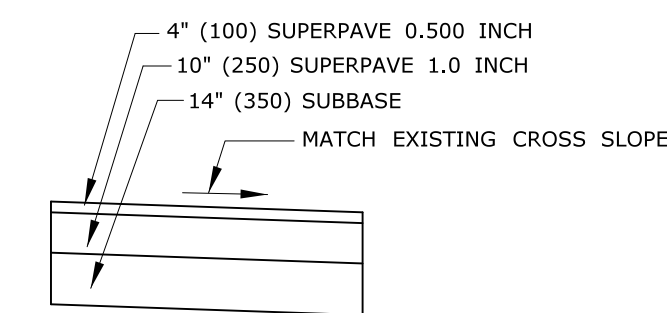
SIGN LEGEND:

⊙ DENOTES TRAFFIC DRUM

⊙ AA	⊙ A	⊙ BB	⊙ C	⊙ D	⊙ FF	⊙ L	⊙ N	⊙ P	⊙ D
 31-1906 48" X 42" (1200 X 1050)	 80-9604 48" X 48" (1200 X 1200)	 80-9508 48" X 48" (1200 X 1200)	 80-9957 48" X 48" (1200 X 1200)	 80-9612 48" X 24" (1200 X 600)	 80-9434 48" X 48" (1200 X 1200)	 80-9436 48" X 48" (1200 X 1200)	 80-9957 48" X 48" (1200 X 1200)	 50-5032(R) 24" X 30" (600 X 750)	 80-1605 (16-E) 84" X 60" (2100 X 1500)

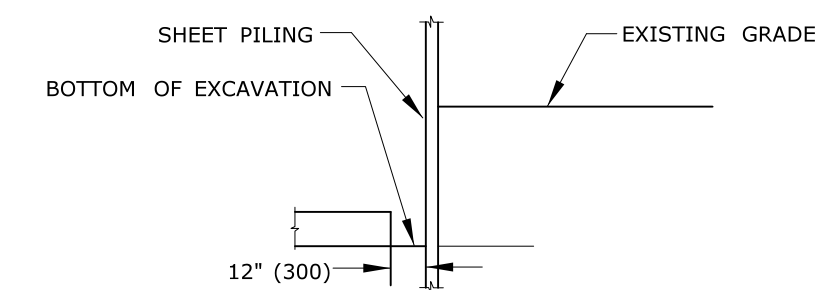
NOTES:

- EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED OR COVERED, INCLUDING THOSE PAVEMENT MARKINGS OUTSIDE OF THE TRAVELWAY.
- THE APPROPRIATE TYPE DE-7 AND DE-7A DELINEATORS SHALL BE INSTALLED ON THE TEMPORARY PRECAST CONCRETE BARRIER CURB AS SPECIFIED ON THE STANDARD DRAWING "TYPICAL DELINEATION AND DELINEATOR AND OBJECT MARKER DETAILS".
- EXISTING SIGNS ARE TO BE RELOCATED AS NEEDED AND AS DIRECTED BY THE ENGINEER DURING CONSTRUCTION SO THAT THEY ARE IN THE APPROPRIATE LOCATION AND VISIBLE TO MOTORISTS. SOME SIGNS MAY HAVE TO BE TEMPORARILY LOCATED WITHIN THE WORK AREA. THIS WORK WILL BE PAID FOR UNDER ITEM #097101A-MAINTENANCE AND PROTECTION OF TRAFFIC.
- EXISTING SIGNS IN CONFLICT WITH TEMPORARY SIGNS SHALL BE COVERED, REMOVED, OR REVISED TO MEET FIELD CONDITIONS.
- THE LOCATIONS OF TEMPORARY SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS.
- TEMPORARY SIGNS SHALL BE MOUNTED ON POSTS WHEN FEASIBLE.
- THE LOCATIONS OF THE TRAFFIC DRUMS SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE ADJUSTED BY THE CONTRACTOR TO MEET FIELD CONDITIONS AND TO CLEARLY DEFINE ACCESS TO AND EGRESS FROM ALL ROADWAYS AND DRIVEWAYS.
- THE HEIGHT OF THE TEMPORARY SHEET PILING SHALL NOT EXTEND ABOVE THE HEIGHT OF THE TEMPORARY PRECAST CONCRETE BARRIER CURB.
- AS DIRECTED BY THE ENGINEER, INSTALL SERIES 16, ROAD WORK AHEAD - FINES DOUBLED, ROAD WORK AHEAD, AND SHOULDER CLOSED AHEAD.
- IF THIS PLAN IS TO REMAIN IN OPERATION DURING THE HOURS OF DARKNESS, INSTALL BARRICADE WARNING LIGHTS - HIGH INTENSITY ON ALL POST-MOUNTED DIAMOND SIGNS IN THE ADVANCE WARNING AREA.



PAVEMENT REPAIR SECTION

(WORK, WHEN NECESSARY FOR VMS FOUNDATION CONSTRUCTION, SHALL BE INCLUDED IN PRICE BID FOR ITEM 1202247A)

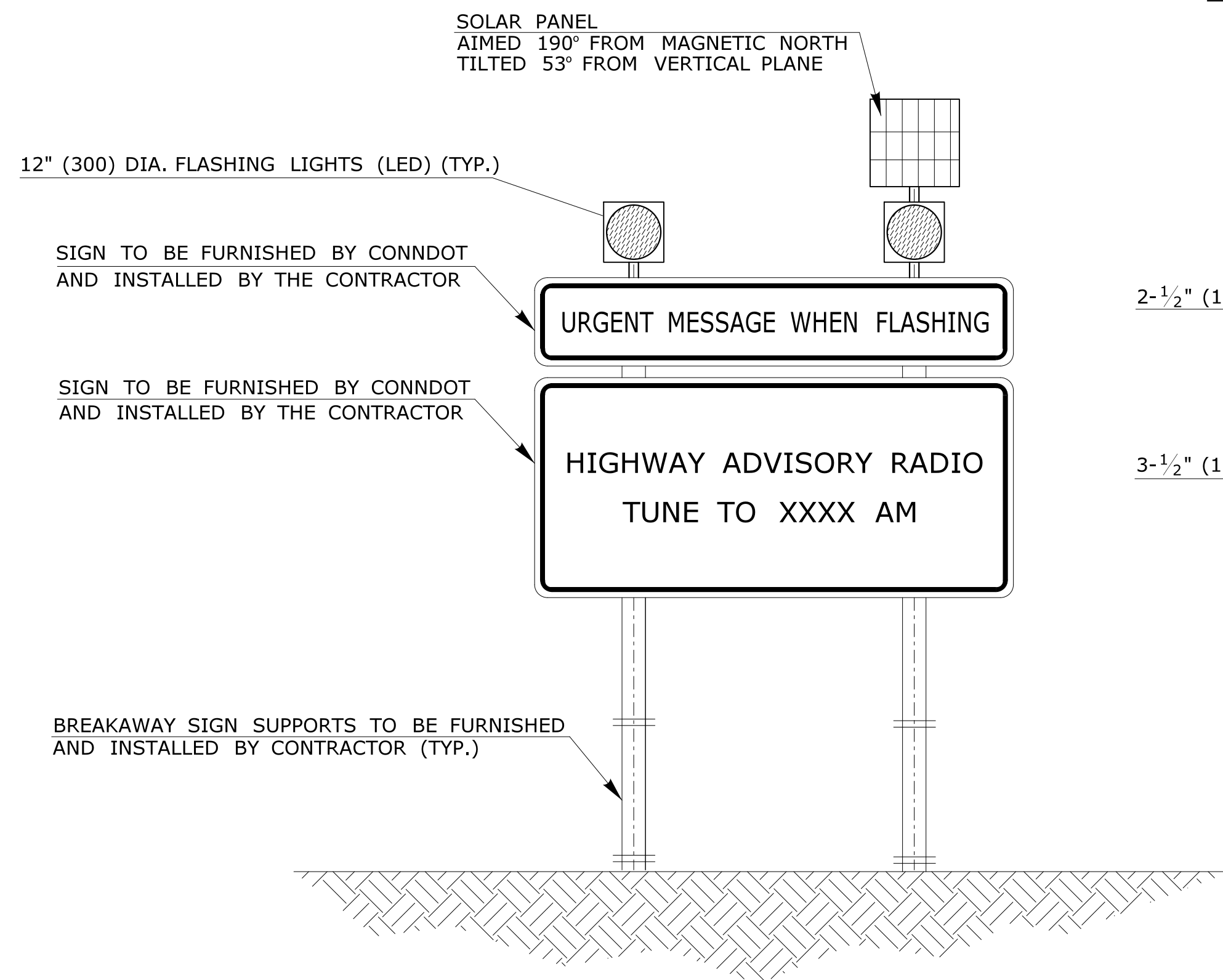


SHEET PILING CROSS-SECTION

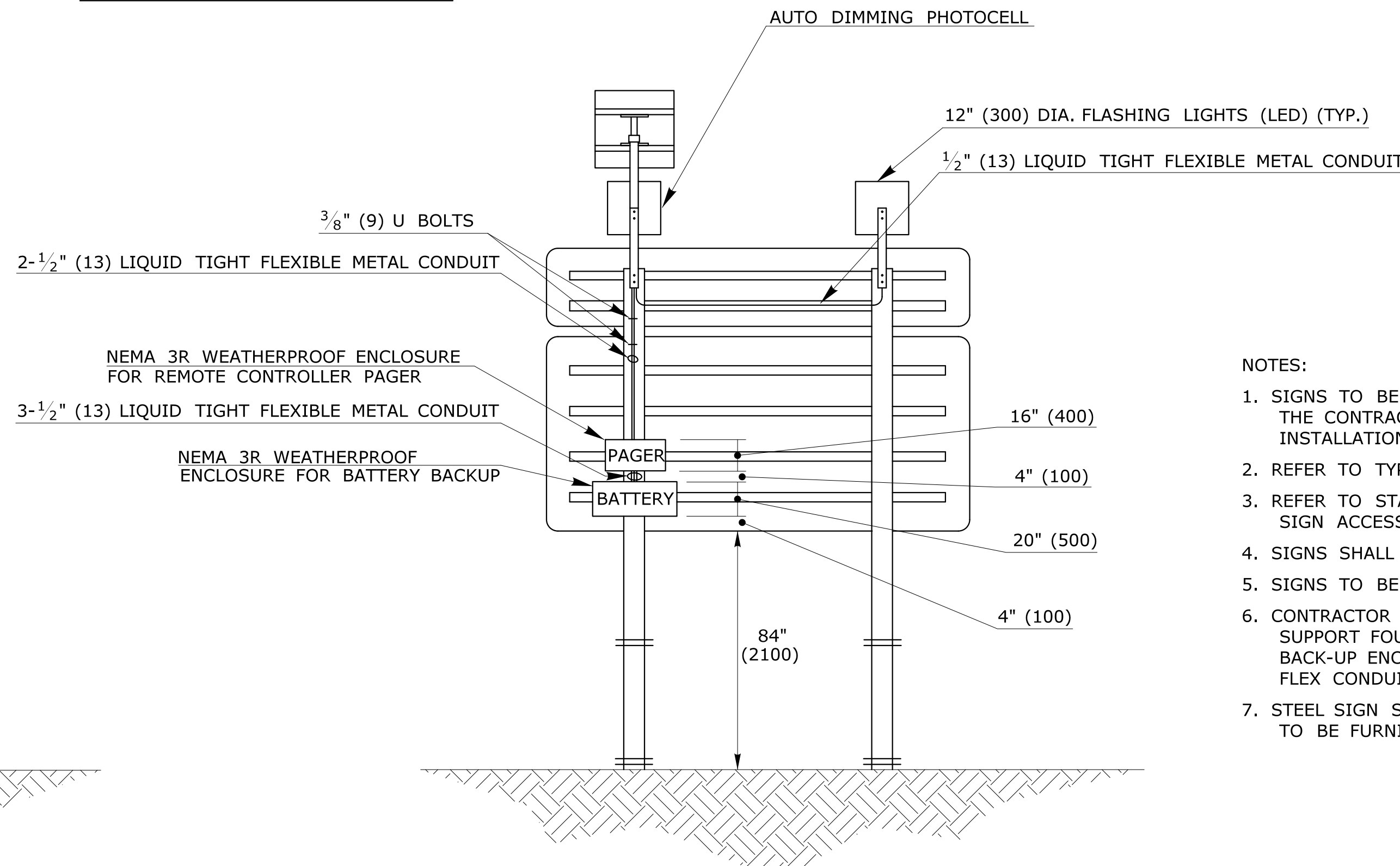
(SHEET PILING, WHEN NECESSARY, SHALL BE INCLUDED IN PRICE BID FOR ITEM 1202247A)

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1	3-2011	ADDED SIGNING & DRUMS TO STAGE CONSTRUCTION							
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 3/15/2021	Filename: ...UD-XX-IMS-CTDOT-STANDARD DTL5.dgn				

HAR SIGN LAYOUT PLAN



FRONT VIEW OF SIGN

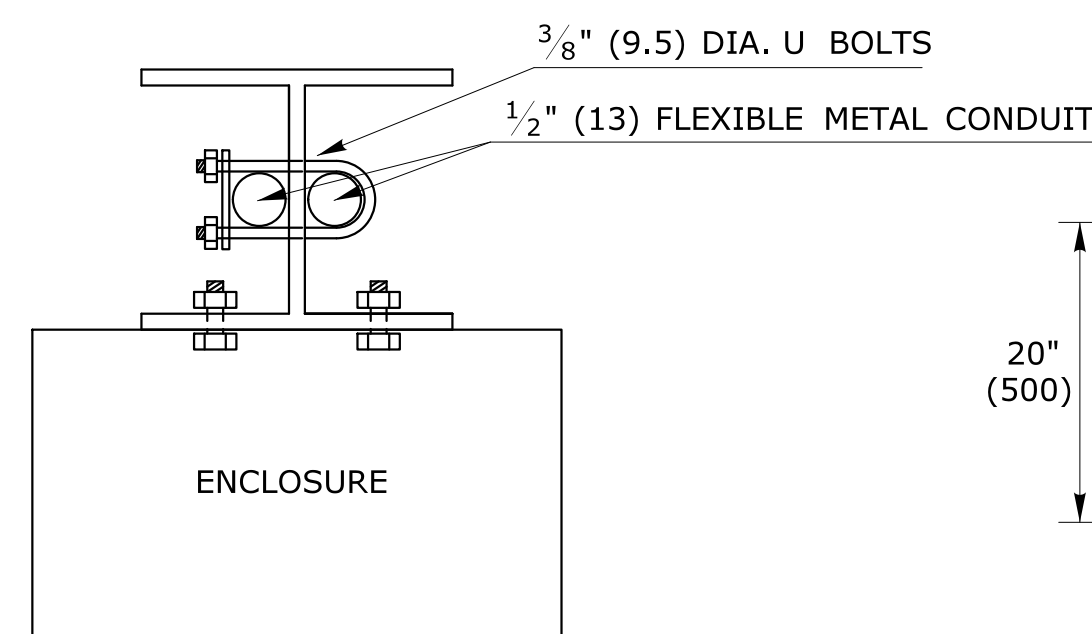


BACK VIEW OF SIGN

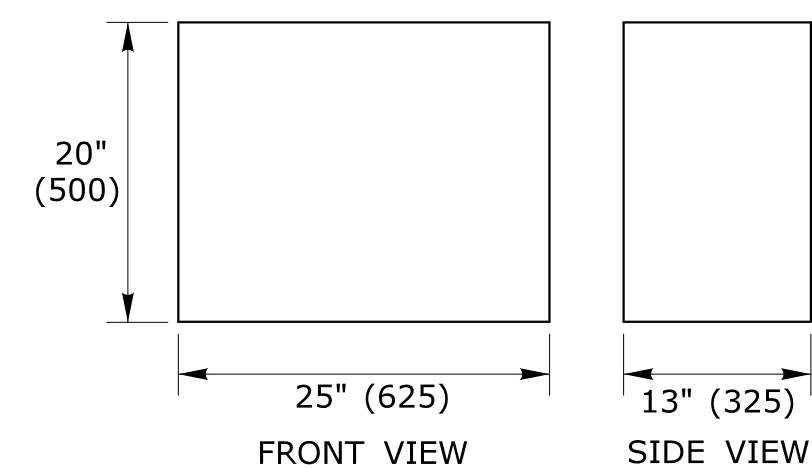
NOTES:

1. SIGNS TO BE FURNISHED BY THE DEPARTMENT AND INSTALLED BY THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE SIGN ORDER AND INSTALLATION. THE CONTRACTOR SHALL CALL (860) 258-4675 TO REQUEST SIGN ORDER.
2. REFER TO TYPICALS SHEETS ENTITLED "POST MOUNTED SIGNS ON BREAKAWAY COUPLING SYSTEM".
3. REFER TO STANDARD SHEETS ENTITLED "SIGN FACE SHEET ALUMINUM, LARGE SIGN ACCESSORY AND MOUNTING DETAILS".
4. SIGNS SHALL BE ORDERED FROM DOT SIGN CATALOG #52-5910 AND 41-5905.
5. SIGNS TO BE INSTALLED BY THE CONTRACTOR USING DOUBLE SIDED MOUNTING TAPE.
6. CONTRACTOR TO SUPPLY AND INSTALL STEEL SIGN SUPPORTS, STEEL, SIGN SUPPORT FOUNDATIONS, PAGER AND PAGER CONTROL ENCLOSURE, BATTERY BACK-UP ENCLOSURE WITH BATTERIES, SOLAR PANEL, FLASHING LIGHTS, FLEX CONDUIT, MOUNTING HARDWARE AS NEEDED AND DOUBLE SIDED TAPE.
7. STEEL SIGN SUPPORTS AND STEEL SIGN SUPPORT FOUNDATIONS TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

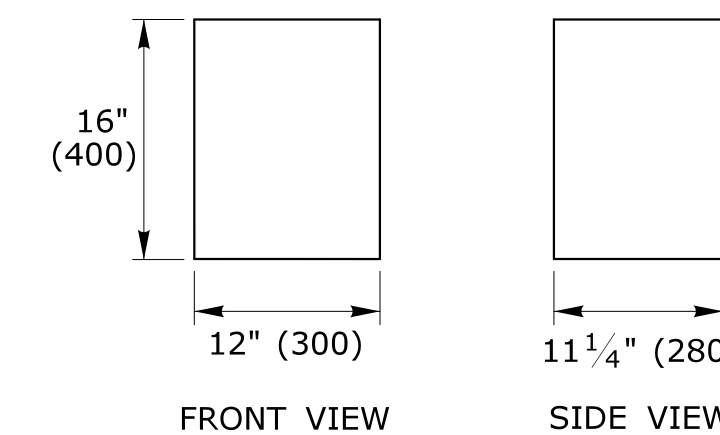
SCHEDULE OF MATERIALS						
	QTY	HEIGHT	WIDTH	DEPTH	WEIGHT lbs. (kg)	METHOD OF MOUNTING
SOLAR PANEL	1	44" (1100)	26" (660)	7 5/8" (190)	75 (34)	2 1/2" (65) GALVANIZED TUBING (SEE MOUNT BELOW)
MOUNT FOR SOLAR PANEL	1	60" (1500)	2" (50)	2" (50)	20 (9)	2 EACH 65mm (1.0)X9.5mm U-BOLT (STAINLESS STEEL)
FLASHING LIGHTS (LED)	2	12" (300)	12" (300)	18" (450)	14 1/2 (6.6)	1 1/2" (38) U-CHANNEL
MOUNT FOR FLASHING LIGHTS	2	30" (750)	1 1/2" (38)	1 1/2" (38)	10 (4.5)	2 EACH 3/8" (9.5) STAINLESS STEEL BOLT PER LIGHT
PAGER CABINET	1	16" (400)	12" (300)	11 1/8" (280)	28 (12.7)	4 EACH 3/8" (9.5) STAINLESS STEEL BOLT
BATTERY CABINET	1	20" (500)	25" (625)	13" (325)	150 (68)	4 EACH 3/8" (9.5) STAINLESS STEEL BOLT
BATTERIES	1	SEE SPECIFICATIONS				AS PER MANUFACTURER'S SPECIFICATIONS
LARGE (LOWER) SIGN	1	60" (1500)	144" (3600)	-	-	SEE TYPICAL DRAWINGS
SMALL (UPPER) SIGN	1	18" (450)	144" (3600)	-	-	SEE TYPICAL DRAWINGS
STEEL SIGN SUPPORT	2	AS REQUIRED IN STATE TYPICAL DRAWINGS				-
FLEXIBLE CONDUIT	-	1/2" (13)				SEE BEAM DETAIL 9.5MM UBOLTS
STEEL SUPPORT FOUNDATIONS	2	AS REQUIRED IN STATE TYPICAL DRAWINGS				
ALL EQUIPMENT TO BE MOUNTED TO SIGN POST BY FIELD DRILLING AND BOLTING DIRECTLY TO STEEL						



BEAM DETAIL

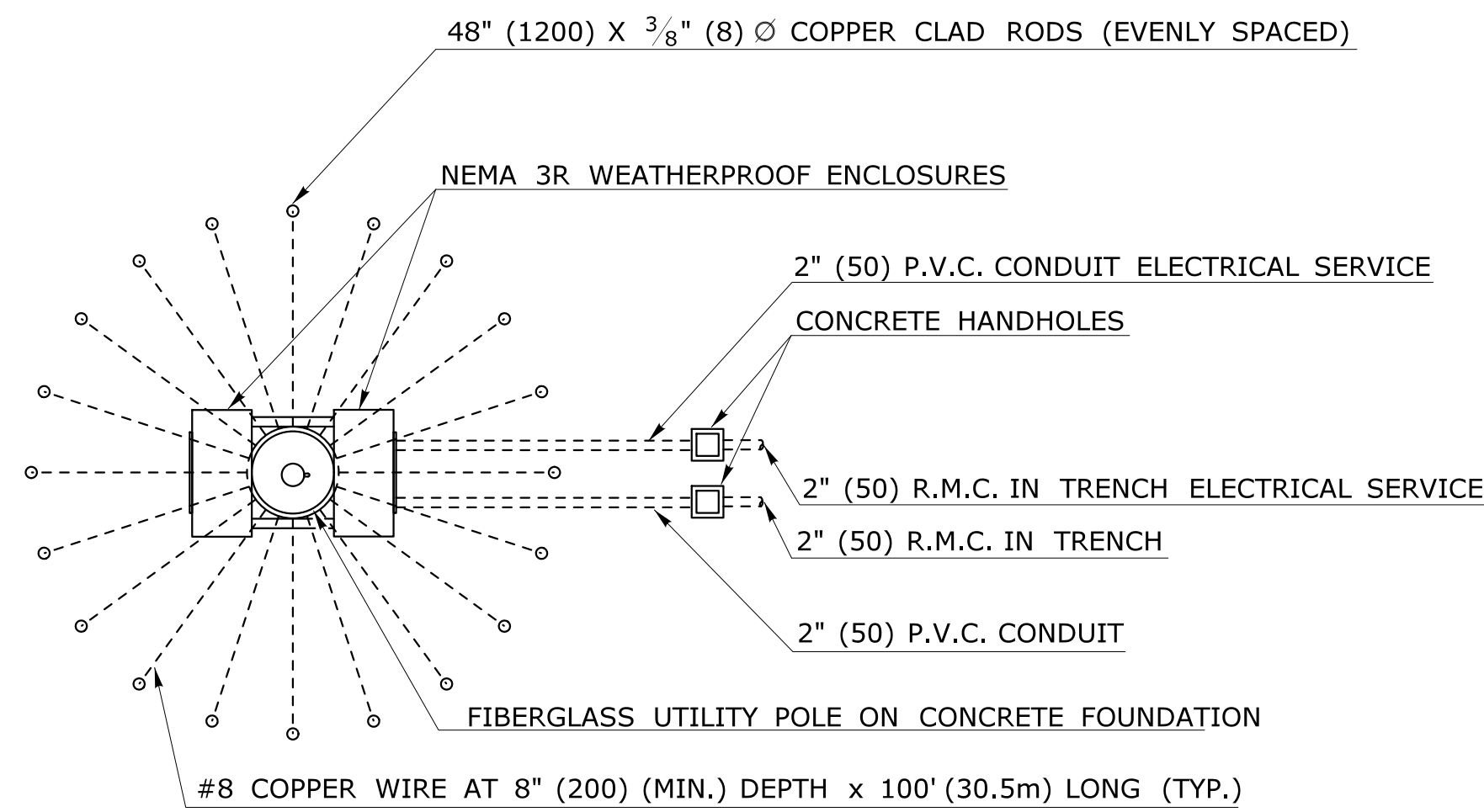


BATTERY CABINET DETAIL

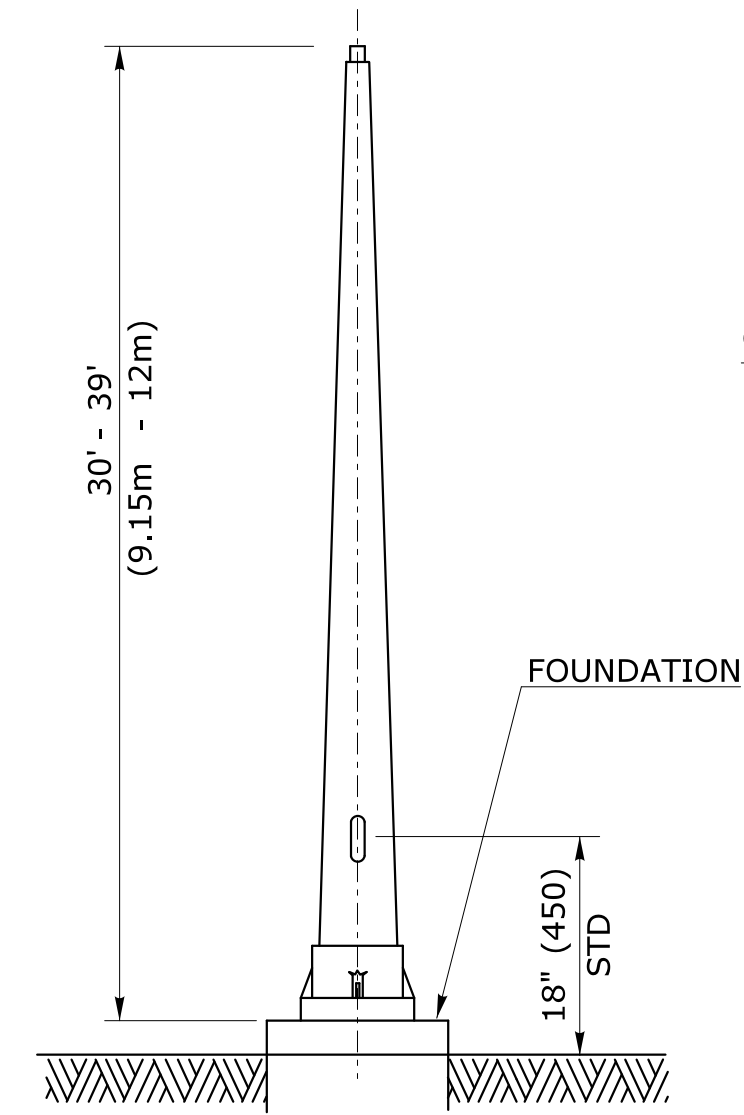


PAGER CABINET DETAIL

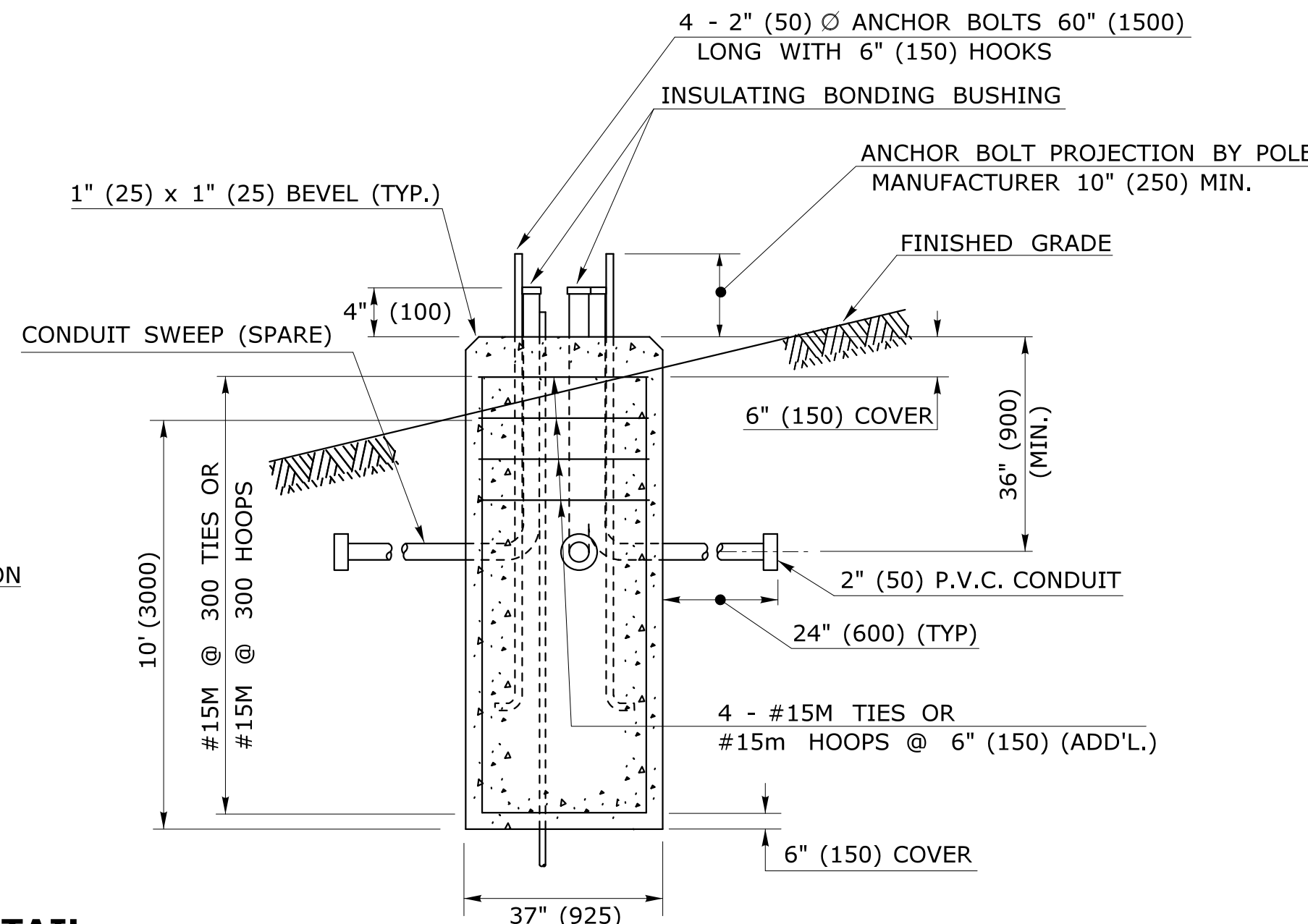
REV. DATE REVISION DESCRIPTION SHEET NO.	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: D.K. SWINBURNE	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	SIGNATURE/ BLOCK: OFFICE OF ENGINEERING	PROJECT TITLE: REMOTE CONTROL FLASHING LIGHT AND HAR SIGN LAYOUT PLAN	TOWN:	PROJECT NO.
		CHECKED BY: R.A. KENNEDY		APPROVED BY:		DATE:	DRAWING NO.
Plotted Date: 3/15/2021		SCALE IN FEET 0 SCALE 20' NOTED 40' SCALE 11"=200'	Filename: ...UD-XX-IMS-CTDOT-STANDARD DTL.S.dgn			SHEET NO.	



HAR STATION AND GROUND PLANE PLAN



FIBERGLASS UTILITY POLE DETAIL



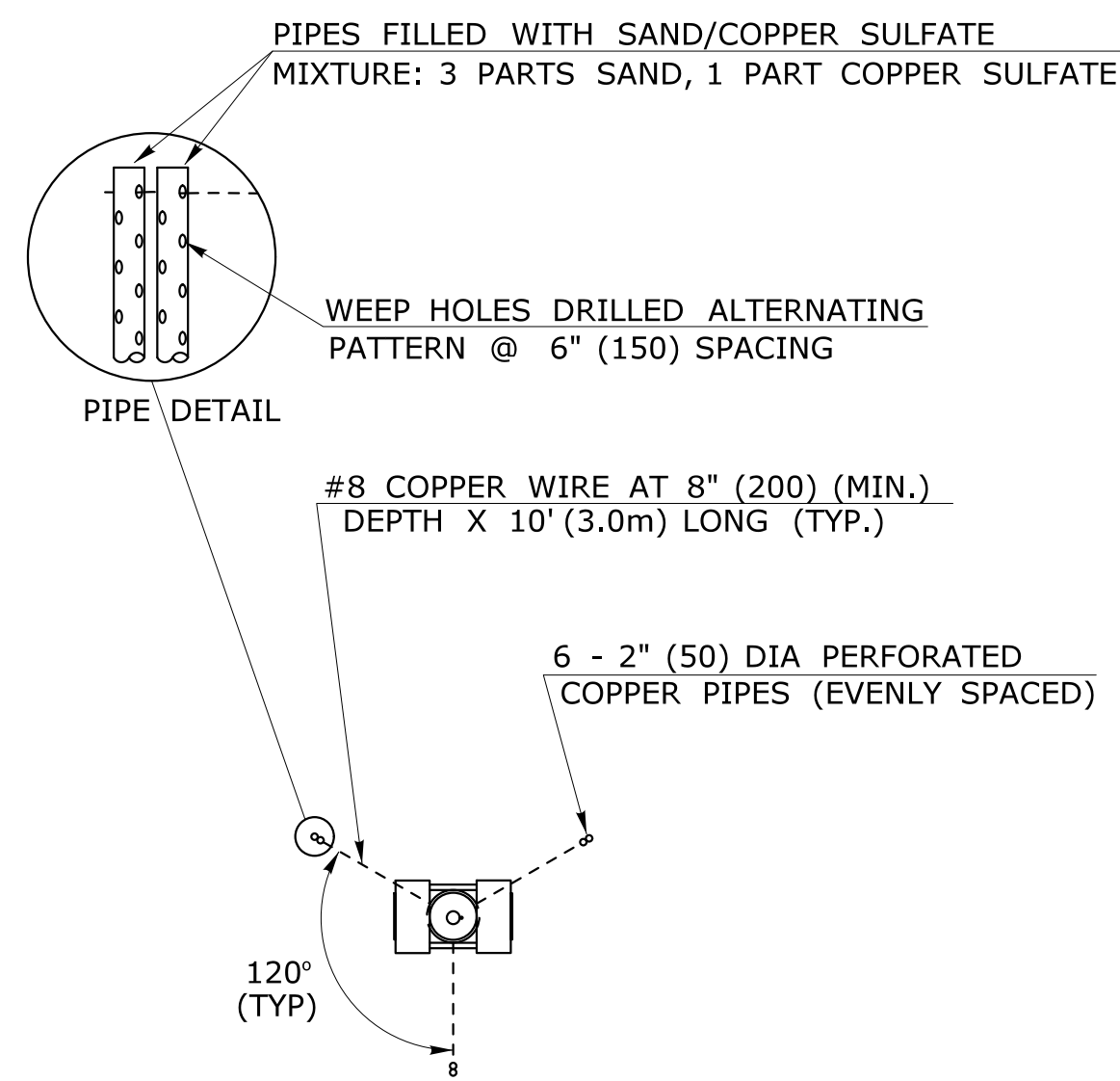
ELEVATION

POLE FOUNDATION NOTES:

- IF ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS AND/OR CONDITIONS SPECIFIED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND SHALL NOT PROCEED WITH ANY AFFECTED WORK. CONTRACTOR SHALL PROVIDE REASONS AND RECOMMENDATIONS IN WRITING FOR APPROVAL TO CHANGE.
- THE CONTRACTOR SHALL NOTIFY THE ENGINEER 7 DAYS PRIOR TO THE INSTALLATION OF THE REINFORCING CAGE AND THE CONCRETE POUR.
- INSTALL ANCHOR BOLTS PER MANUFACTURER'S RECOMMENDATION.
- CONCRETE OPERATIONS SHALL START AS SOON AS POSSIBLE AFTER COMPLETION OF THE EXCAVATION. THE BOTTOM OF THE EXCAVATED HOLE SHALL BE CLEAN WITH NO STANDING WATER.
- DEPTH OF THE POLE FOUNDATIONS SHOWN IS MINIMUM.
- ALL PORTIONS OF THE FOUNDATIONS WHICH WILL REMAIN EXPOSED TO VIEW SHALL BE NEATLY FINISHED WITH A WOOD FLOAT AND GIVEN A BRUSH FINISH. ALL EXPOSED EDGES OF CONCRETE FOUNDATIONS TO HAVE 1" X 1" (25 X 25) BEVEL AS SHOWN.
- FOUNDATIONS TO BE PAID FOR UNDER THE ITEM "TRAFFIC CONTROL FOUNDATION - SPAN POLE - TYPE B".
- ALL REINFORCEMENT SHALL BE DEFORMED STEEL BARS AND CONFORM TO ASTM A615M GRADE 400.
- CONCRETE FOR POLE FOUNDATIONS SHALL BE CLASS "A" CONCRETE.
- NON-SHRINK GROUT SHALL CONFORM TO FORM 815, SECTION M.03.01-12.
- ANCHOR BOLTS FOR THE POLES SHALL CONFORM TO ASTM A449M. THE ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION AN ACCORDANCE WITH ASTM B695 CLASS 50.

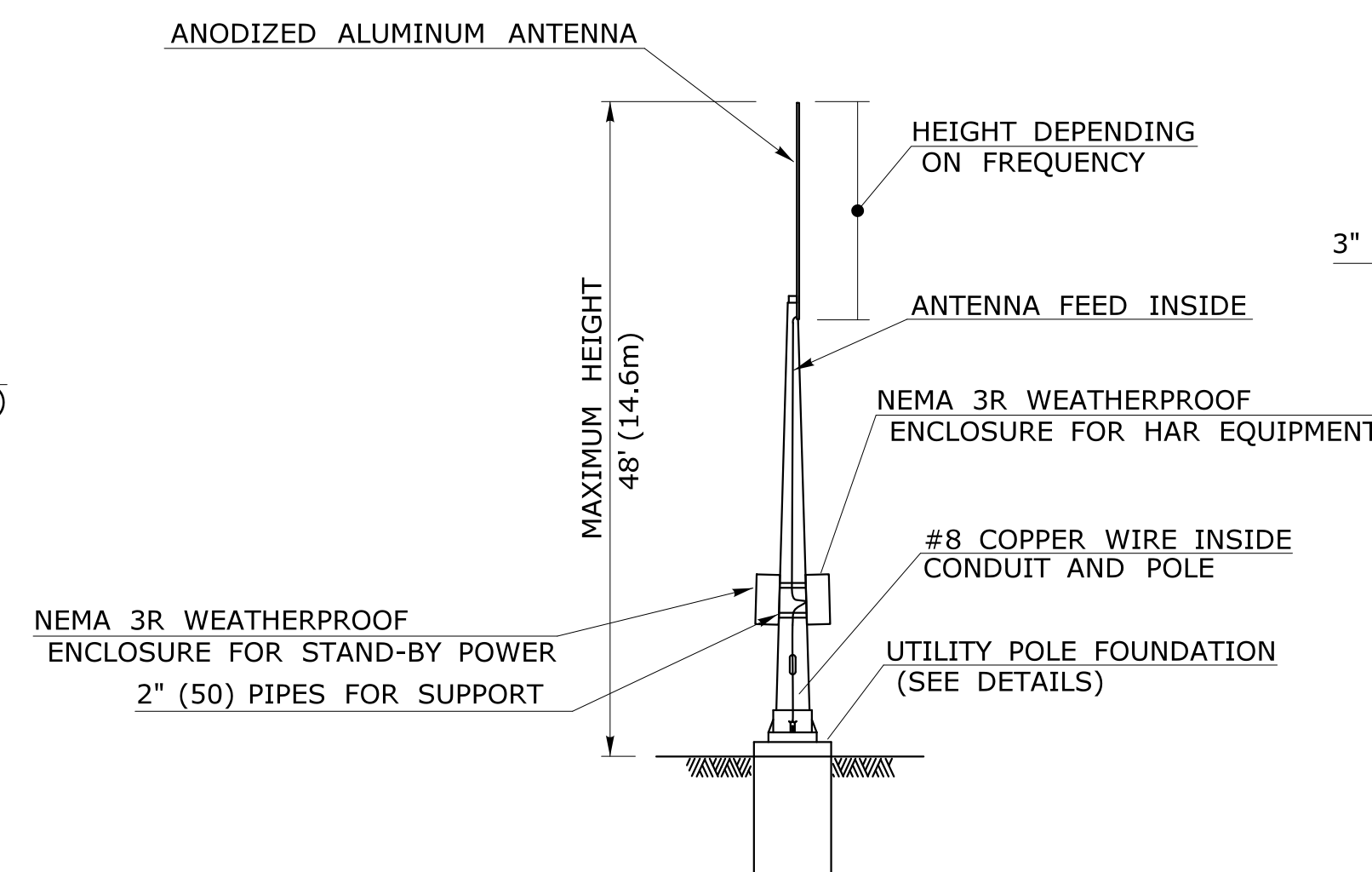
GROUND PLANE NOTES:

- 2" (50) PVC CONDUIT FROM THE WEATHERPROOF ENCLOSURE TO THE FIRST HANDHOLE OUTSIDE THE GROUND PLANE SHALL BE INCLUDED IN THE BID PRICE FOR HIGHWAY ADVISORY RADIO STATION. 2" (50) RMC AND TRENCHING & BACKFILL BEYOND THE FIRST HANDHOLE SHALL BE PAID AT THE CONTRACT UNIT PRICE FOR EACH ITEM.
- GROUND RODS: 4" (100) COPPER CLAD.
- GROUND WIRE: #8 BARE COPPER 8' (2540) LONG EACH.
- GROUND WIRE TO BE BURIED 6" (150) BELOW GRADE.
- BOND ALL RADIALS AROUND POST IN THE GROUND. RUN 3 GROUND WIRES UP UTILITY POLE AND CONNECT INSIDE ENCLOSURE.
- A WAGON WHEEL TYPE PATTERN (AS SHOWN) IS TYPICAL. HOWEVER ALTERNATE PATTERNS MAY BE USED, AS SITE CONDITIONS DICTATE, WITHOUT DETRIMENT TO BROADCAST, PROVIDED THE COMBINED LENGTH OF RADIAL EQUAL 2000'.
- RADIAL GROUND PLANE TO BE INSTALLED AS TYPICAL. CONTRACTOR TO INSTALL AS SHOWN. IF FIELD CONDITIONS DO NOT PERMIT RADIAL GROUND PLANE SYSTEM, THE CONTRACTOR MAY REQUEST THE USE OF THE ALTERNATE GROUND PLANE SYSTEM IN WRITING. THE USE OF AN ALTERNATE GROUND PLANE REQUIRES THE APPROVAL OF THE ENGINEER.

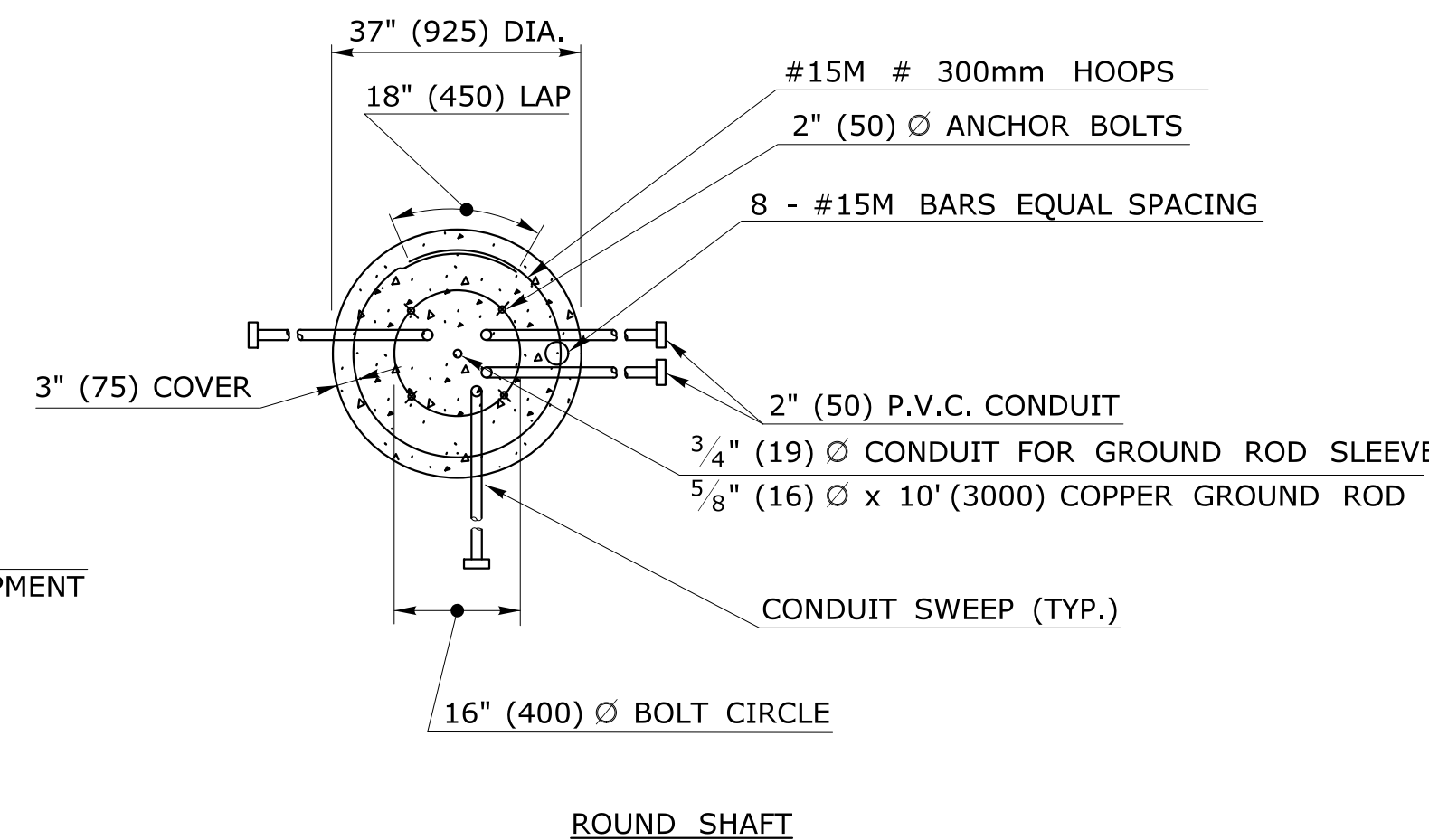


TRIAD ALTERNATE GROUND PLANE

SEE GROUND PLANE NOTES - NOTE 7

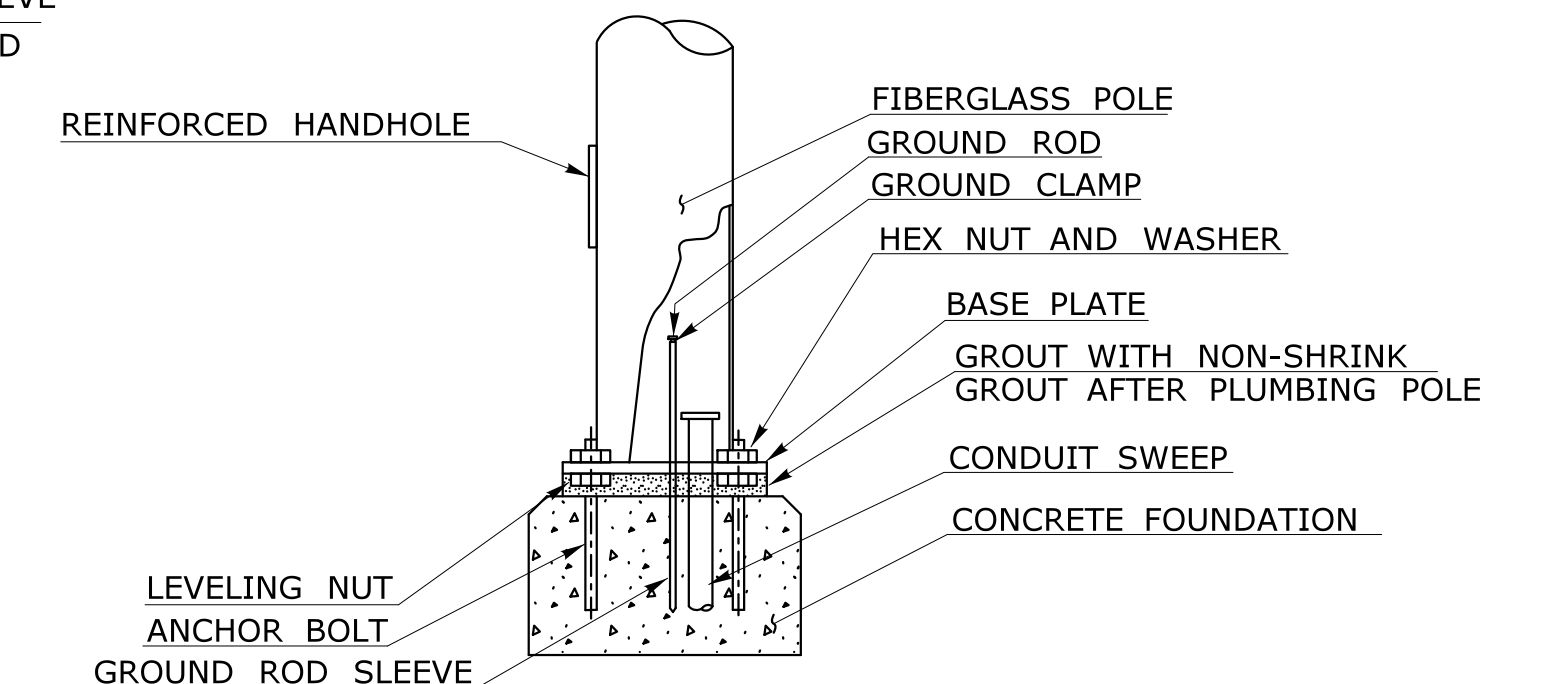


HAR STATION ELEVATION



FIBERGLASS UTILITY POLE FOUNDATION DETAIL

FOUNDATION SOIL PRESURE: 9765 kg/s

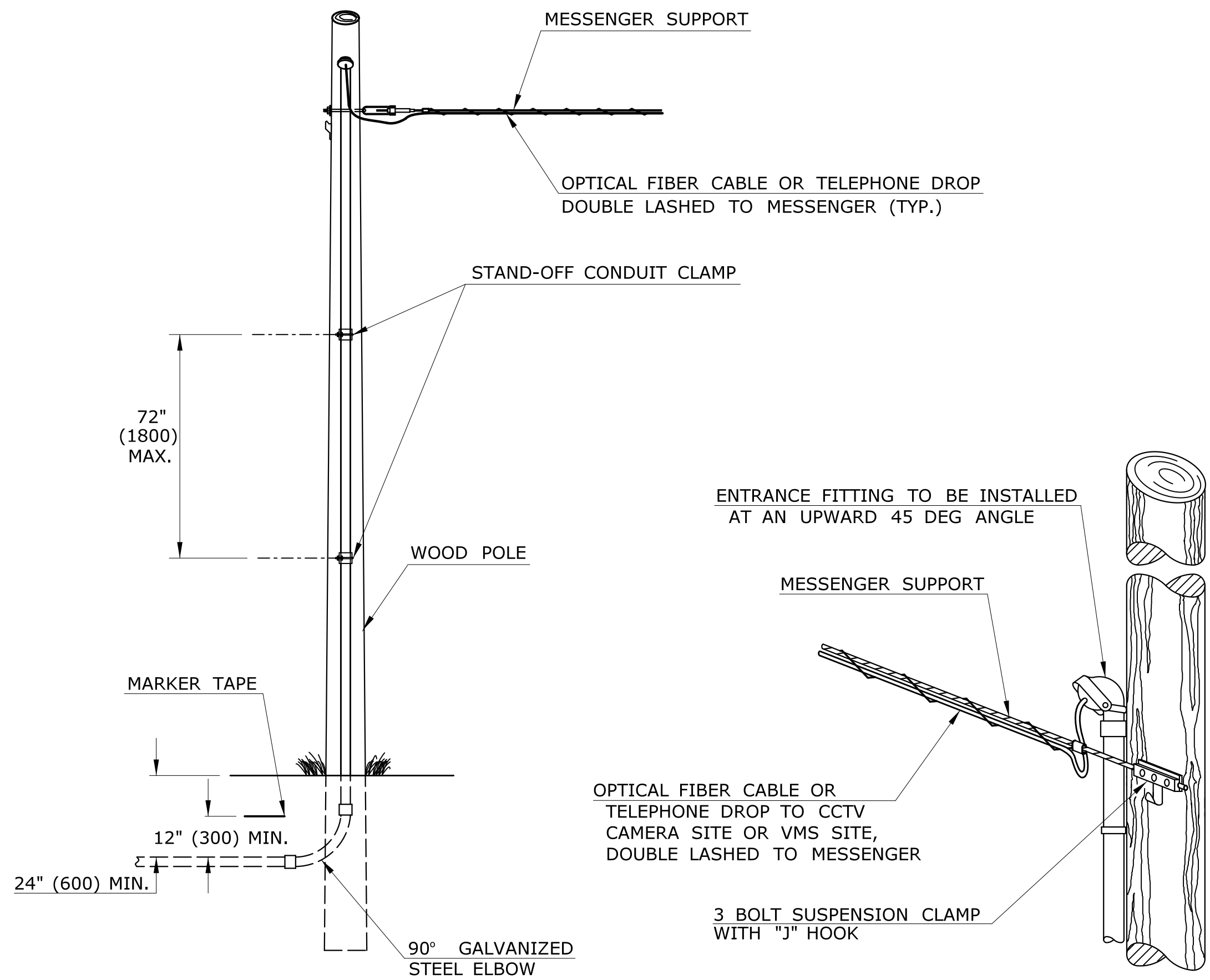


POLE INSTALLATION DETAIL

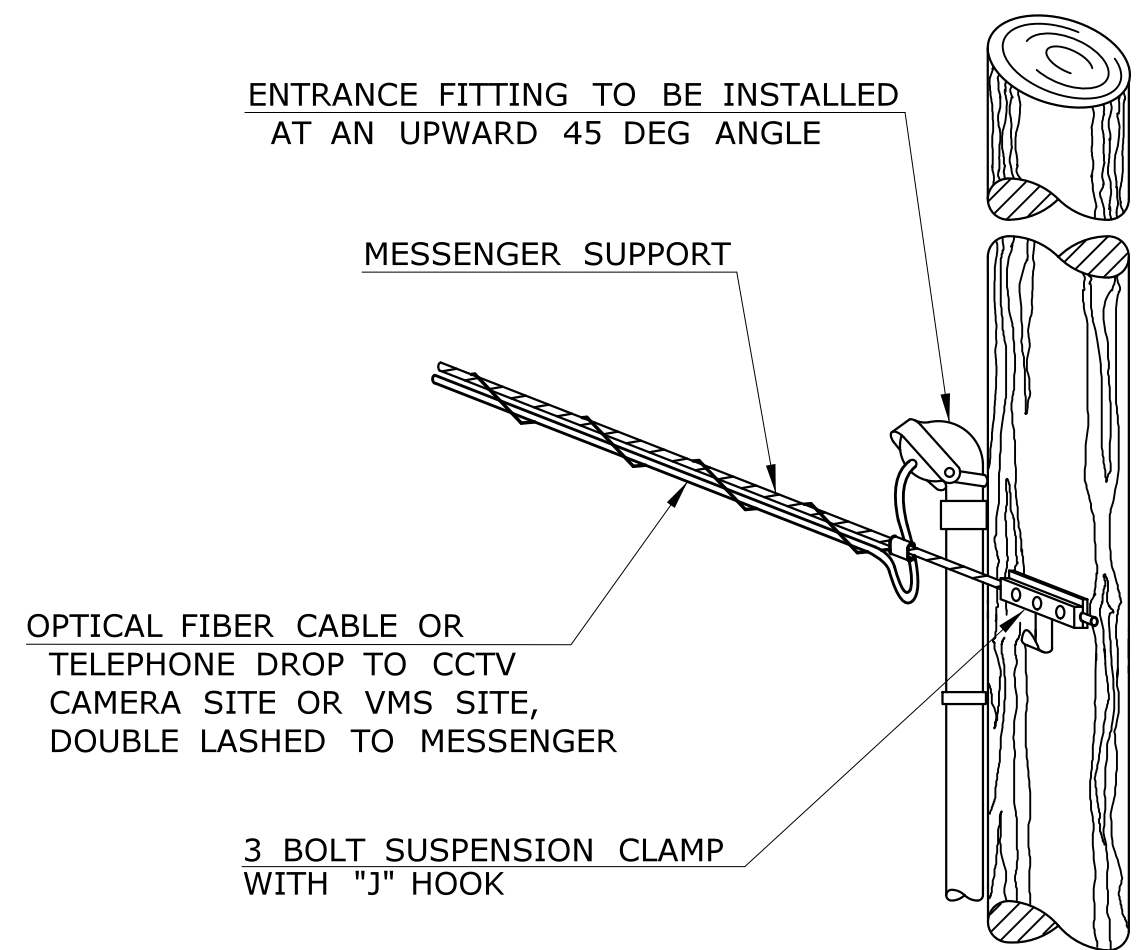
NOTE:
COST OF FURNISHING AND PLACING NON-SHRINK GROUT SHALL BE INCLUDED IN THE PAY ITEM "FIBERGLASS UTILITY POLE".

HAR GROUND PLANE AND POLE INSTALLATION PLANS

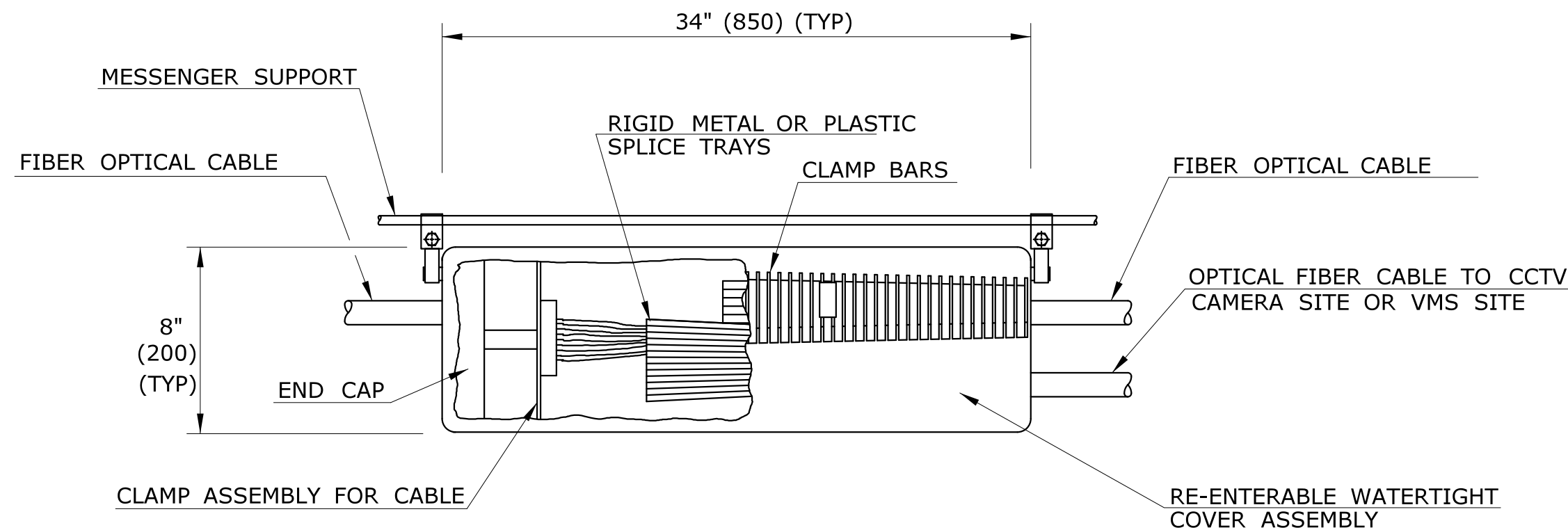
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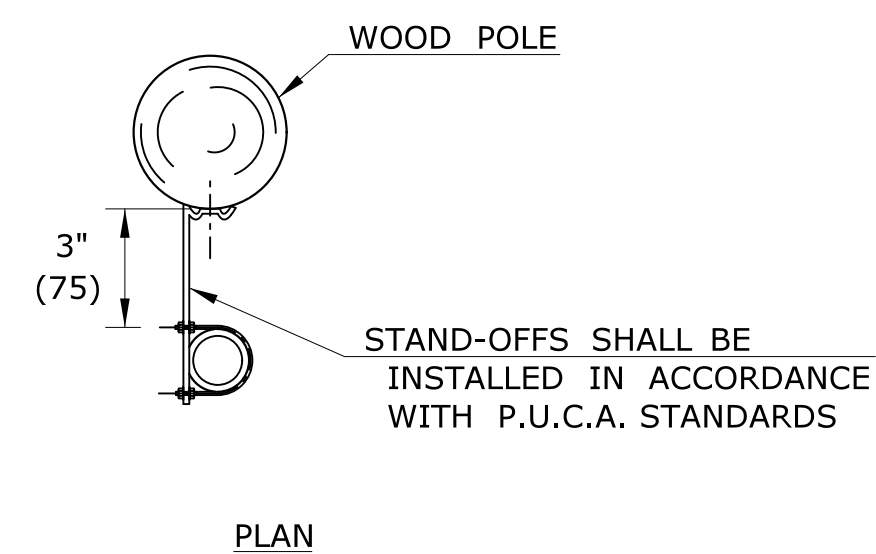
STAND-OFF ELEVATION



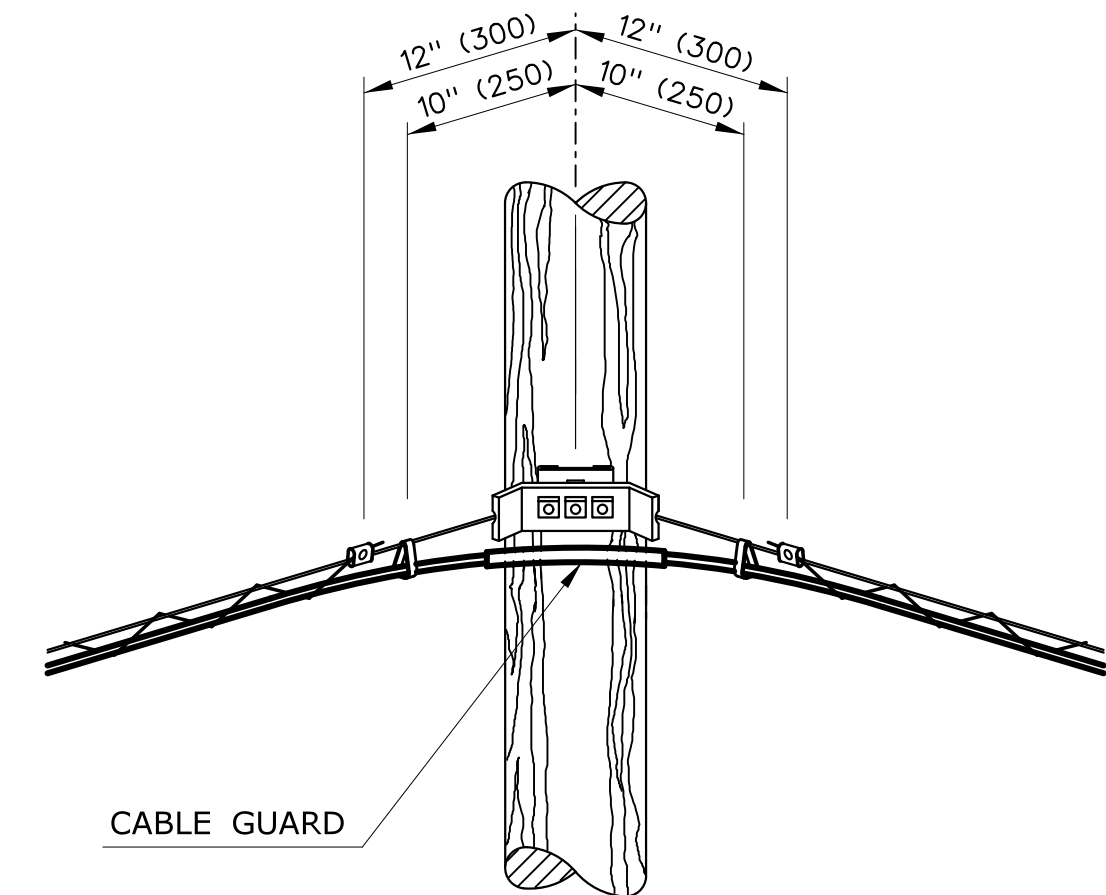
STAND-OFF ENTRANCE DETAIL



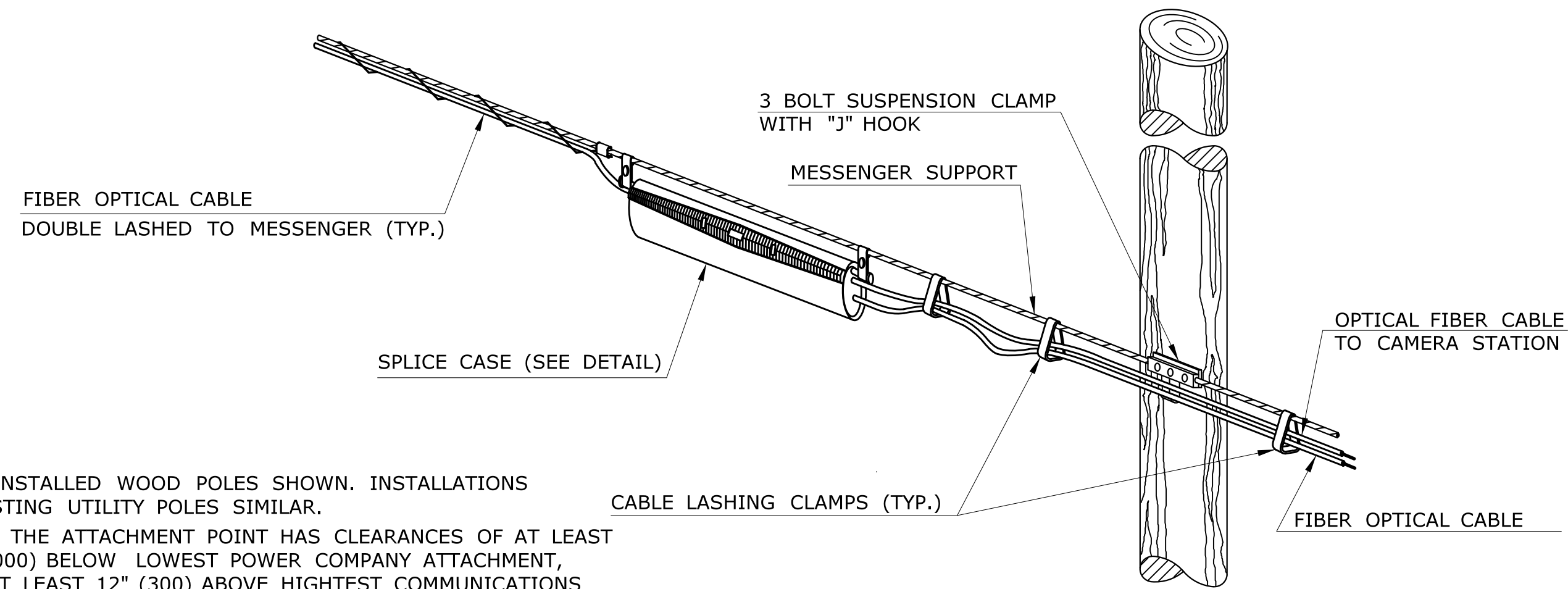
SPLICE CASE



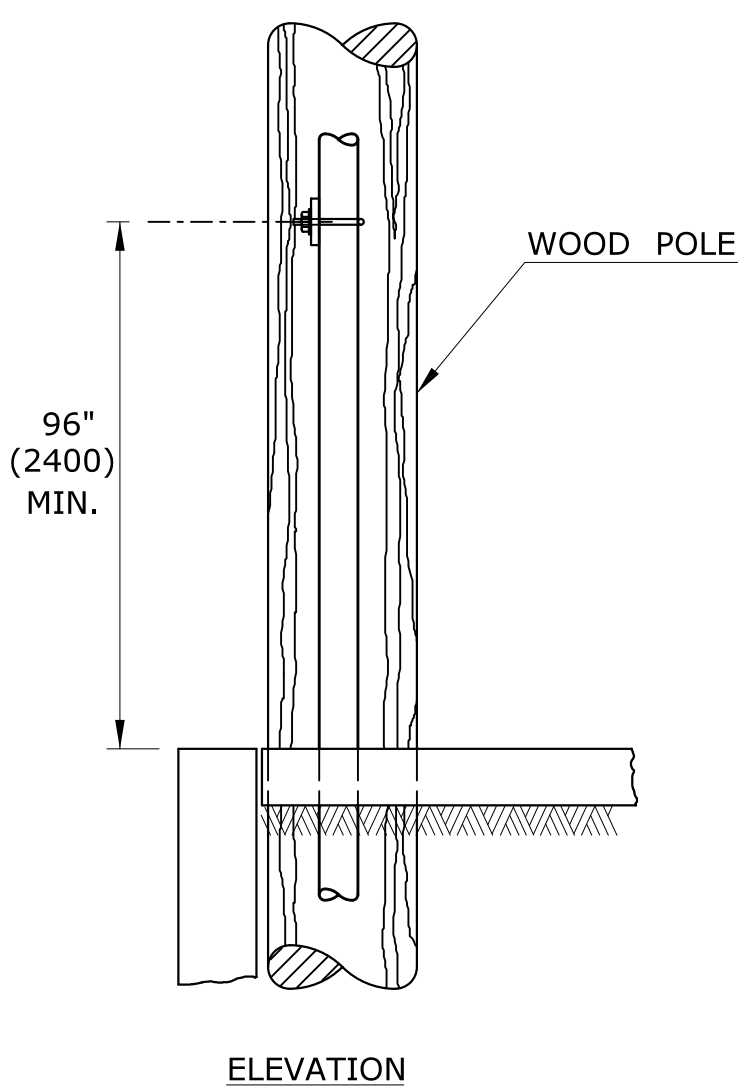
CONDUIT CLAMP DETAIL



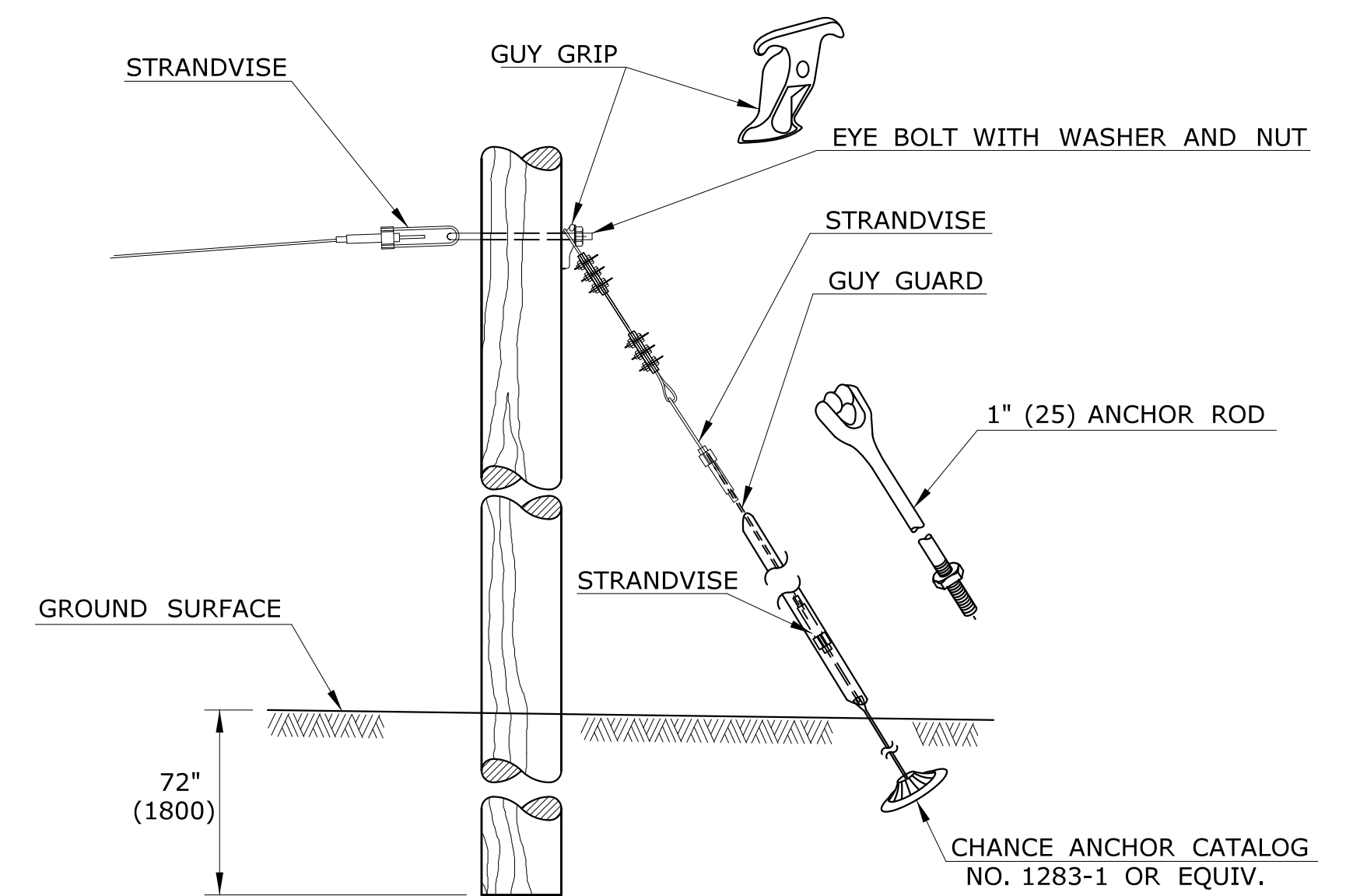
CABLE LASHING AT A CORNER POLE DETAIL



CABLE-DROP INSTALLATION



CONDUIT STAND-OFF INSTALLATION FOR WOOD POLE



TYPICAL WOOD POLE AND GUY INSTALLATION

- NOTES:
1. NEWLY INSTALLED WOOD POLES SHOWN. INSTALLATIONS TO EXISTING UTILITY POLES SIMILAR.
 2. ENSURE THE ATTACHMENT POINT HAS CLEARANCES OF AT LEAST 40" (1000) BELOW LOWEST POWER COMPANY ATTACHMENT, AND AT LEAST 12" (300) ABOVE HIGHEST COMMUNICATIONS ATTACHMENT, UNLESS OTHERWISE DIRECTED ON PLANS.
 3. SPLICE CASES SHALL BE PAID UNDER THE ITEM "FIBER OPTIC CABLE SPLICE ENCLOSURE."

FINAL DESIGN REVIEW

REV. DATE REVISION DESCRIPTION SHEET NO.	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: 3/15/2021	DESIGNER/DRAFTER: D.K. SWINBURNE CHECKED BY: R.A. KENNEDY SCALE IN FEET 0 20 40 SCALE 1"=20' STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION FILENAME: ...UD-XX-IMS-CTDOT-STANDARD DTL.S.dgn	SIGNATURE/BLOCK: PROJECT TITLE: INCIDENT MANAGEMENT SYSTEM INSTALLATIONS ALONG ROUTE 9 AND ROUTE 72	TOWN: FARMINGTON TO CROMWELL DRAWING TITLE: UTILITY AND WOOD POLE INSTALLATION DETAILS	PROJECT NO. 171-415/416 DRAWING NO. ID-15 SHEET NO.
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