

Trench Specifications

- 1) Minimum cover to be 36" from top of primary conduit to sub-grade.
- 2) Minimum cover to be 24" from top of secondary conduit to sub-grade.
- 3) Bottom of trench shall be soil backfill to provide smooth, even supports for conduits.
- 4) There is to be a minimum of 12" separation between electrical conduits and all other conduits.
- 5) Warning tape to be a minimum of 12" above primary electrical conduits.
- 6) Warning tape required in all TCEC trench. (Reference pictured)
- 7) Trench may be used jointly if NESC separation is maintained.
- 8) Primary Trench must maintain adequate depth. "Adequate depth" is defined as 36" from sub-grade to top of conduit.
- 9) With TCEC approval **[signature form required]** minimum cover requirements may be reduced by six inches with every two inches of 3000 PSI concrete poured directly onto conduit. See NESC Rule 2017-352D.2. (Red Dye Required)
CONTACT TCEC BEFORE POURING CONCRETE
- 10) Schedule 40 electrical grade PVC conduit shall be used unless otherwise specified.
- 11) All conduit connections shall be primed with purple primer.
- 12) All conduit connections should be glued with PVC glue or PVC cement. Glue shall not match color of primer.
- 13) If any type of vault, pad-mounted equipment, or pedestal for the underground electric is planned then all other utilities should be routed around these facilities.
- 14) For 2" and larger waterlines special permission must be granted by TCEC.
- 15) Open cut road crossings shall be backfilled according to City/County requirements.
- 16) TCEC representative may require ducts to be concrete capped depending on degree of slope or other circumstances.
- 17) Spacers may be required in multi conduit ditches if determine necessary by TCEC. If required the spacers shall be spaced at 8'.
- 18) 11" spacing required between riser conduit and pole for TCEC stand-off installation.
- 19) Polyester pulling tape (2,500-pound tensile strength) in all conduit. Do not tie knots in the mule tape - it must be a continuous run. Footage markers required on tape.
- 20) Vented riser coupling required for meter base connection.
- 21) Schedule 80 PVC electrical conduit required between vented coupling and riser 90.
- 22) All trenches shall be a minimum width of 6" (unless specified by TCEC personnel).
- 23) TCEC does not take possession of conduit and trench until the conductor is installed and energized.

Texas law, specifically the Underground Facility Damage Prevention and Safety Act (Utilities Code, Title 5, Chapter 251), requires anyone planning to dig to contact Texas 811 at least two business days (48 hours, excluding weekends and holidays) before starting any excavation project.

Legend

Typical in all Drawings

	Primary Conduit		Other Utilities
	Secondary Conduit		Gas Line
	Alternate Secondary Conduit		Feeder 6" Conduit



Main: 817.444.3201
 Inspections:
 Call: 817.752.8172
 Email: woclerks@tcectexas.com

Typical Notes Reference Page

drawn by:	approved by:	2/3/2025	PAGE 1 OF 33
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Member/Developer Contribution:

- 1) Payment to TCEC for materials per the Line Extension Policy
- 2) Trench
- 3) Conduit & sweeps (schedule 40 or greater electrical grade PVC conduit)
- 4) Conduit spacers (when required by TCEC)
- 5) Polyester pulling tape (2,500-pound tensile strength) in all conduits. Do not tie knots in the mule tape. Must be a continuous run.
- 6) Rock-free dirt over initial backfill
- 7) Concrete or flowable fill where required. Flowable fill is NOT allowed as a substitute for concrete for TCEC equipment pads. TCEC equipment pads. Flowable fill may be used as backfill in situations where trench settling may be an issue or anywhere that does not require structural strength. The 28-day compressive strength range, when tested, must be a minimum of 300 psi. Flowable fill is NOT a substitute for concrete except where explicitly listed in the Underground Installation Specifications.
- 8) Meter sockets (TCEC will provide sockets only on TCEC-supplied meter pedestals)
- 9) Primary enclosures and extensions (if applicable)
- 10) Meter sockets (TCEC will provide pedestal-mounted sockets only)
- 11) Bollards, if deemed necessary by TCEC to protect electrical equipment. The design must be approved by TCEC before installation.
- 12) Ground rod - 5/8 inch x 8 foot copper coated ground rod

TCEC Contribution Paid for by Member/Developer as Indicated in the Line Extension Policy:

- 1) Primary conductors
- 2) Secondary conductors
- 3) Primary connectors
- 4) Secondary connectors
- 5) Transformers
- 6) Transformer pad (installed by member/developer)
- 7) Meter pedestals with meter socket (installed by member/developer)
- 8) Switchgear
- 9) Switchgear pad (installed by member/developer)
- 10) Sectionalizer pad (installed by member/developer)
- 11) Vault and manholes (installed by member/developer) (neck extensions as required)

Inspections:

Inspections are required after the staking appointment and before the job can be released to construction. Please contact TCEC by emailing woclerks@tcectexas.com or calling 817.752.8172 to schedule inspections. Cost estimate only to be provided after appointment. The invoice to be paid will be issued after the completion of the first inspection.

- 1) Trench, conduit, & pulling tape
- 2) Initial backfill & warning tape
- 3) Backfill



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Notes

drawn by:

AK

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2/3/2025

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Typical Conduit Schedule

Unit	Unit Description	Recommended Conduit Size
Service		
12Romex	Streetlight Wire 12	2"
6DXU	Cable 6 Duplex Underground	2"
4DXU	Cable #4 Duplex Underground	2"
4TXU	Cable #4 Triplex Underground	2"
1/0TXU	Cable 1/0 Triplex Underground	2"
1/0QXU	Cable 1/0 Quadraplex Underground	2"
4/0TXU	Cable 4/0 Triplex Underground	2"
4/0QXU	Cable 4/0 Quadraplex Underground	3"
350TXU	350 MCM Triplex Underground	3"
350QXU	350 MCM Quadraplex Underground	3"
500TXU	Wire - 500 MCM Triplex Underground	3"
500QXU	Cable 500 MCM Quadraplex URD	4"
600CU	Wire Thhn 600 CU Stranded	6"
750CU	Wire Thhn 750 CU Stranded	6"
1000CU	Wire Thhn 1000 CU Stranded	6"
Primary Single Phase		
1/0UC	1/0 Underground Primary	2"
4/0UC	4/0 Underground Primary	2"
Primary Two Phase		
1/0UC	1/0 Underground Primary	4"
4/0UC	4/0 Underground Primary	4"
Primary Three Phase		
1/0UC	1/0 Underground Primary	4"
4/0UC	4/0 Underground Primary	4"
500UC	500 MCM Underground Primary	6"
1000UC	1000 MCM Primary Underground Aluminum	6"
1000UCC	1000 MCM Primary Underground Copper	6"

Notes:

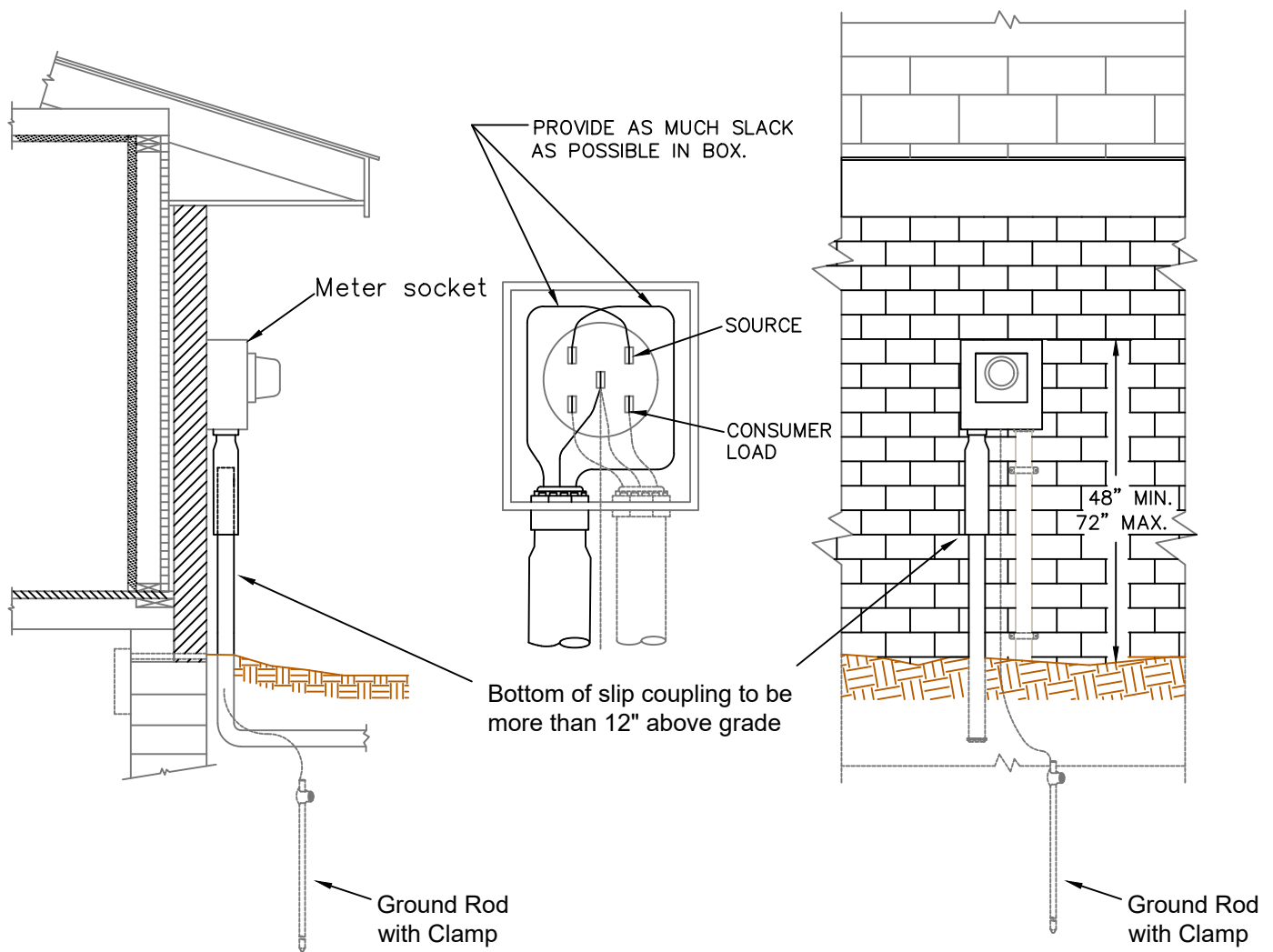
- For 200A service use 2" conduit.
For 320A service use 3" conduit.



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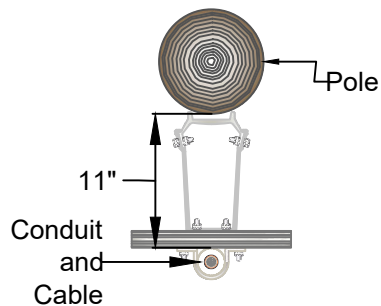
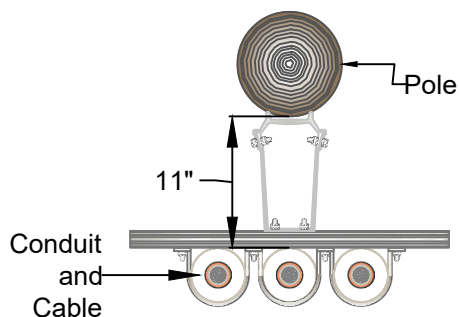
Typical Conduit Schedule

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Notes:

1. **For 200A service use 2" conduit. For 320A service use 3" conduit.**
2. Installation shall meet NESC and NEC guidelines.
3. Above ground conduit shall be schedule 80 PVC. See page 1 for additional requirements.



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Exhibits

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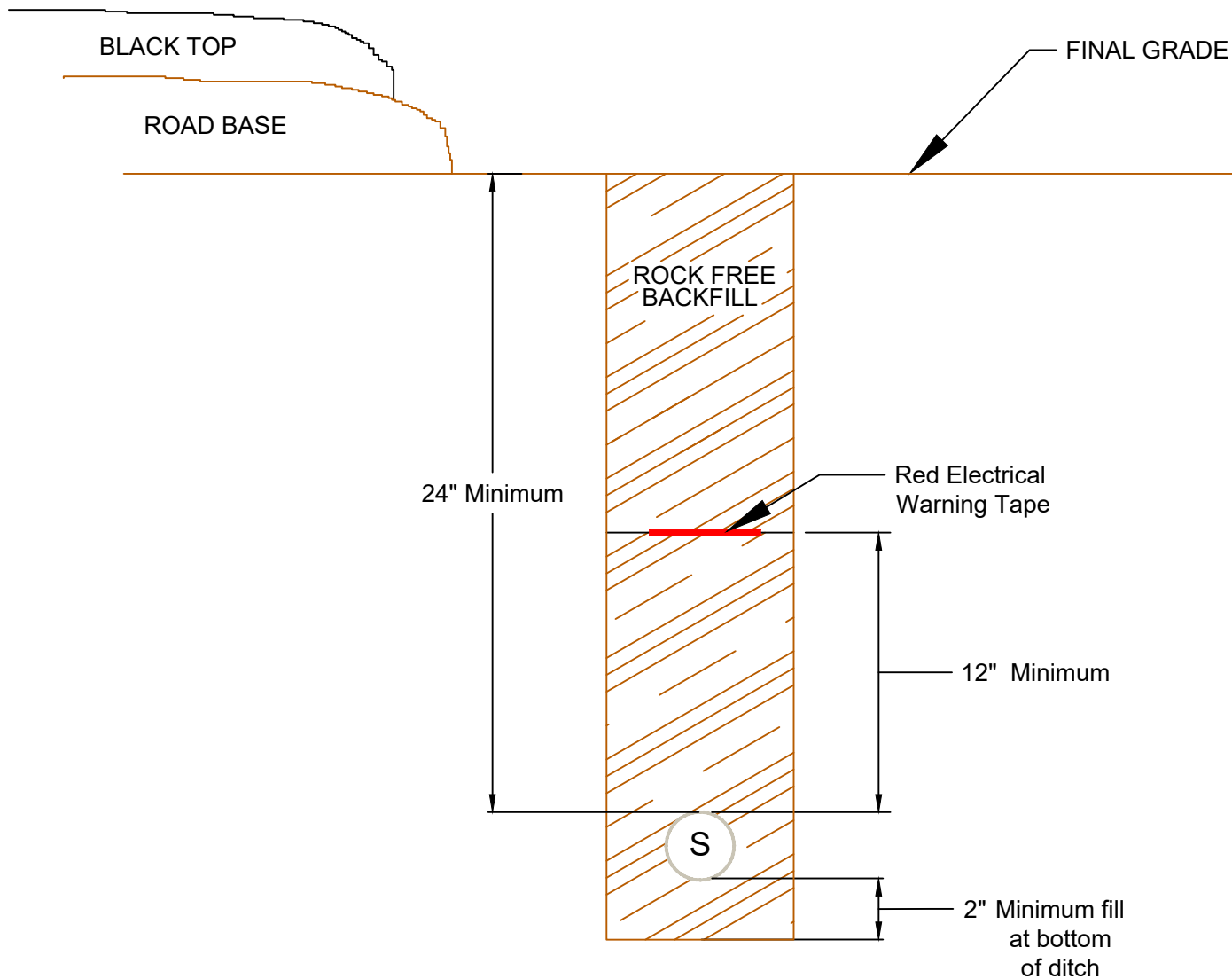
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Reference Page 1 for
Typical Trench Details



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Single Conduit for Service

drawn by:

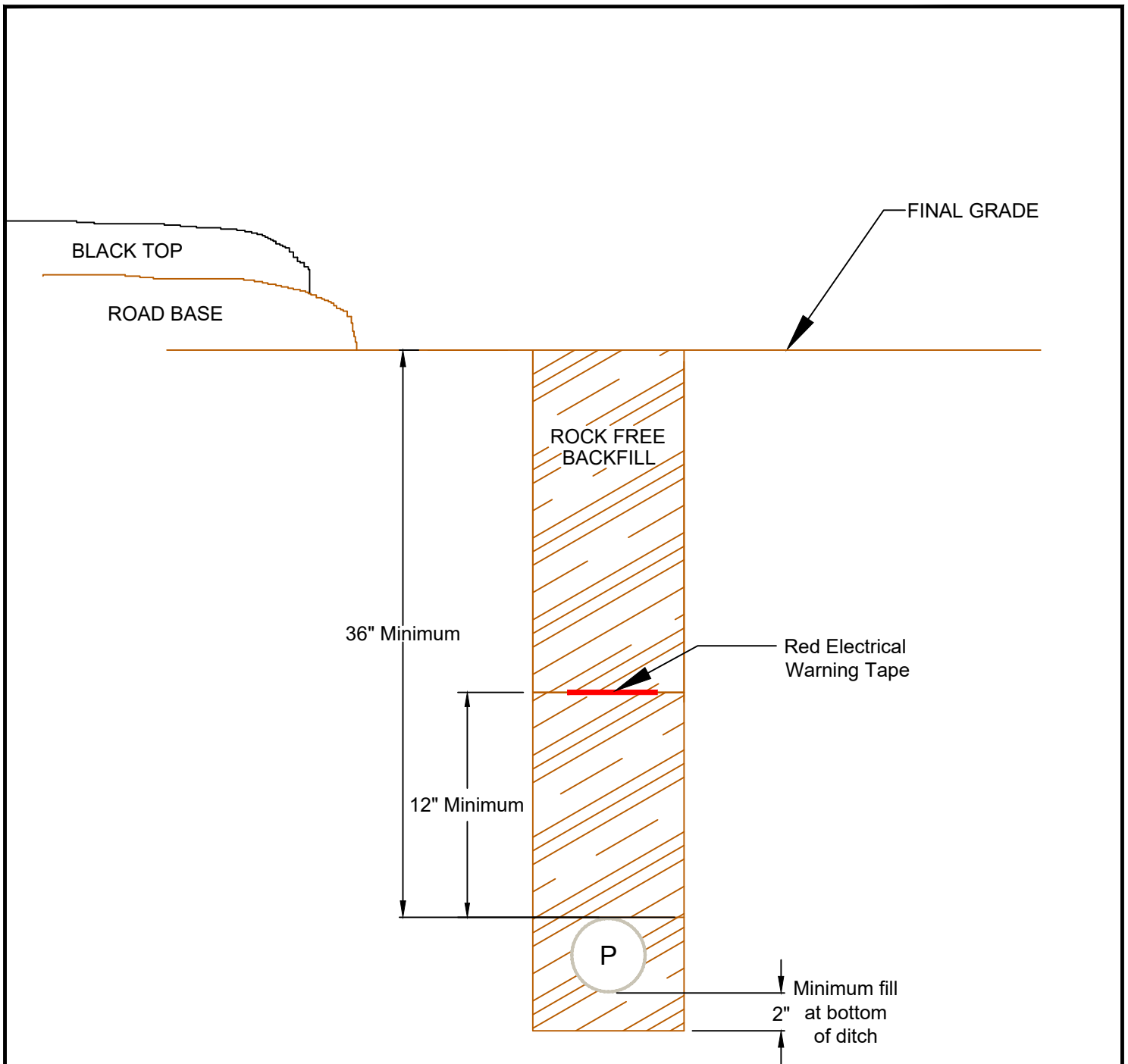
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Reference Page 1
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Single Conduit Primary

drawn by:

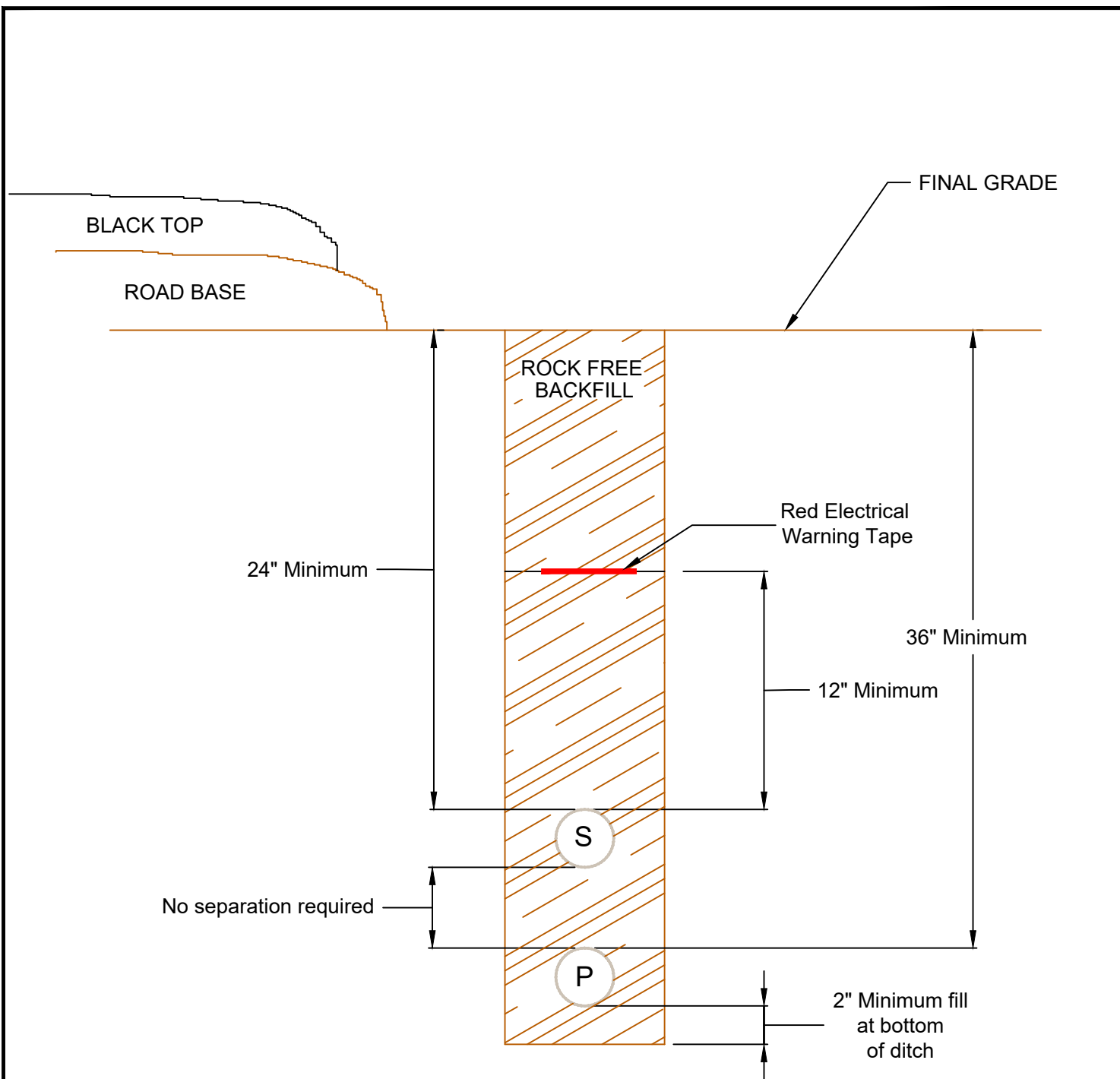
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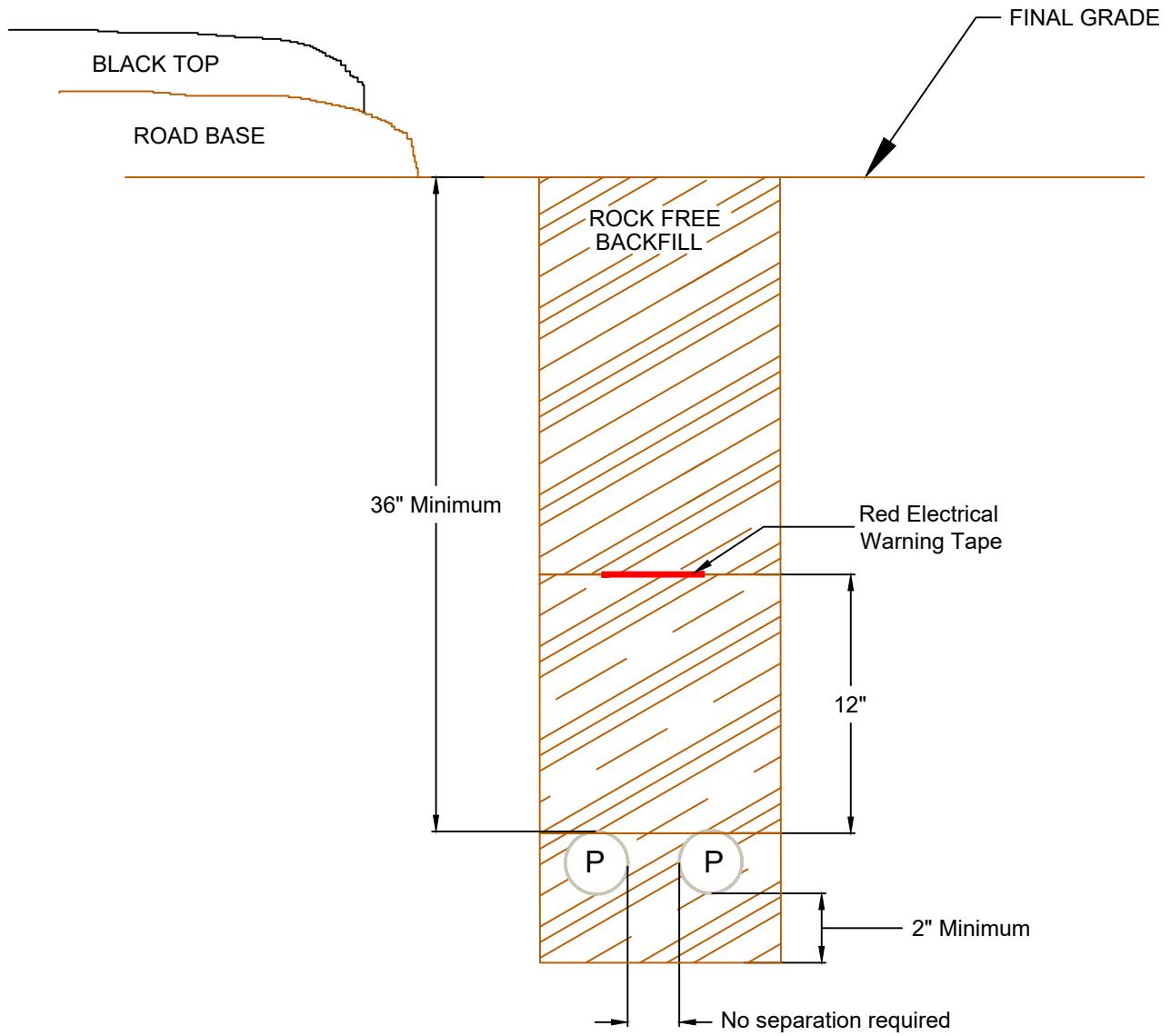
Reference Page 1
Typical Trench Details



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Single Conduit Arrangement for Primary and Secondary

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Reference Page 1
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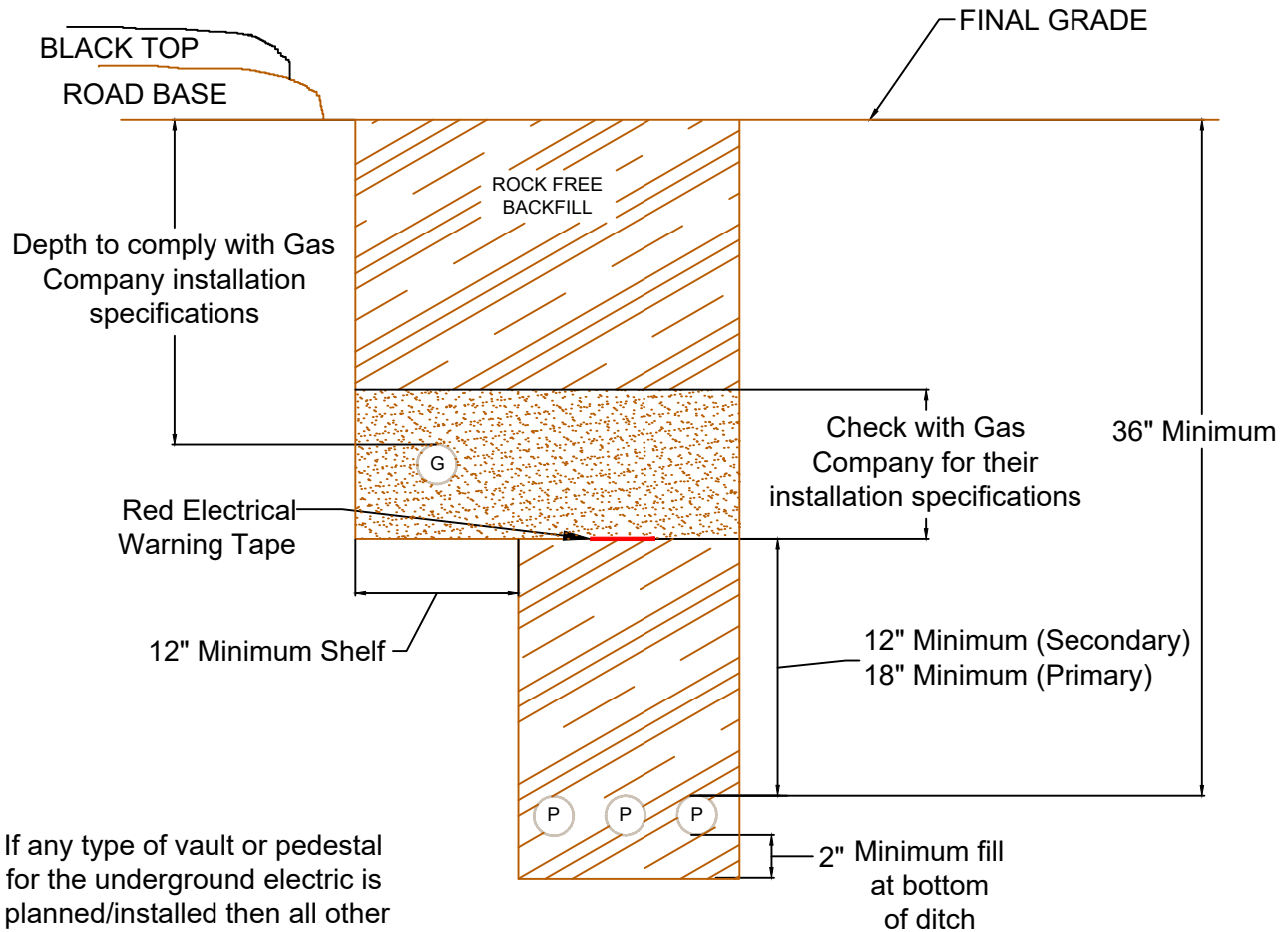
Two Conduit Arrangement

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Reference Page 1 for
Typical Trench Details



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Multiple Conduit Arrangement Joint with other Utilities

drawn by:

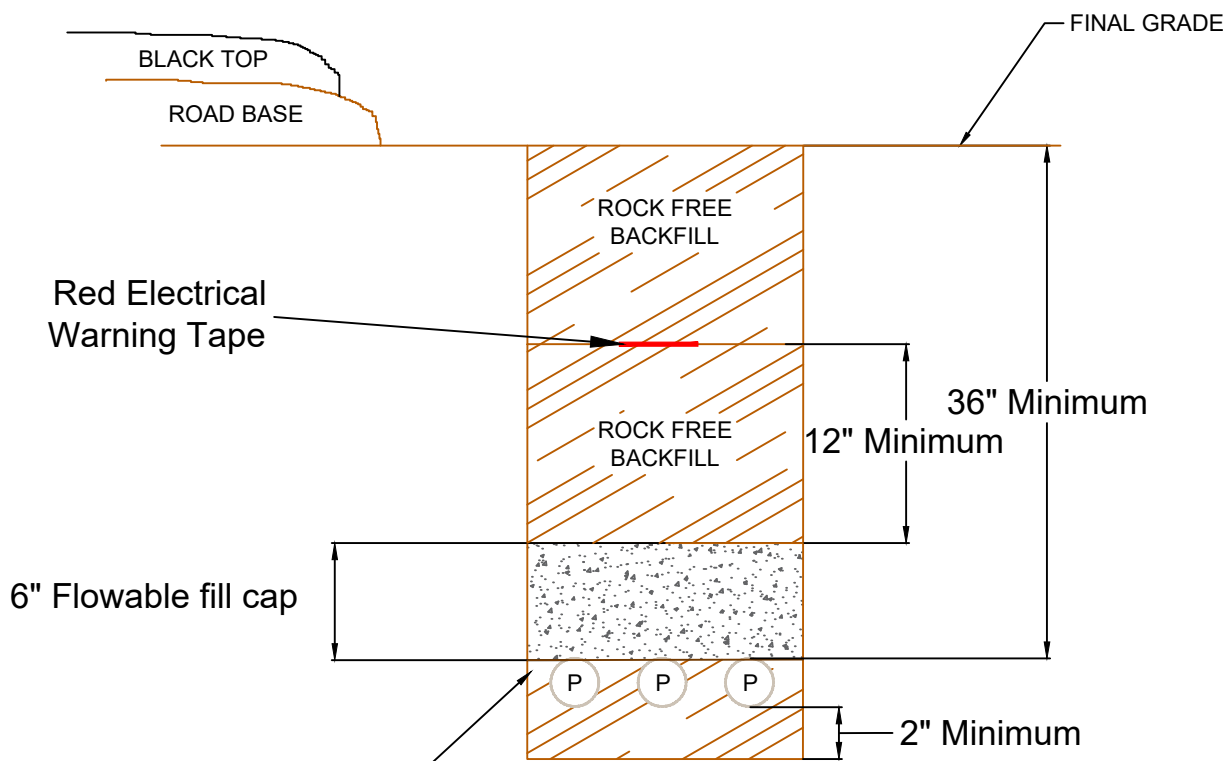
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Along the ditch a maximum of 8' of separation is allowed between spacer installations beginning at 8' from the Riser Pole.

Flowable fill cap to be utilized at TCEC discretion over trenches where additional protection is required.

Reference Page 1 for
Typical Trench Details



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Multi Conduit Trench with Spacers

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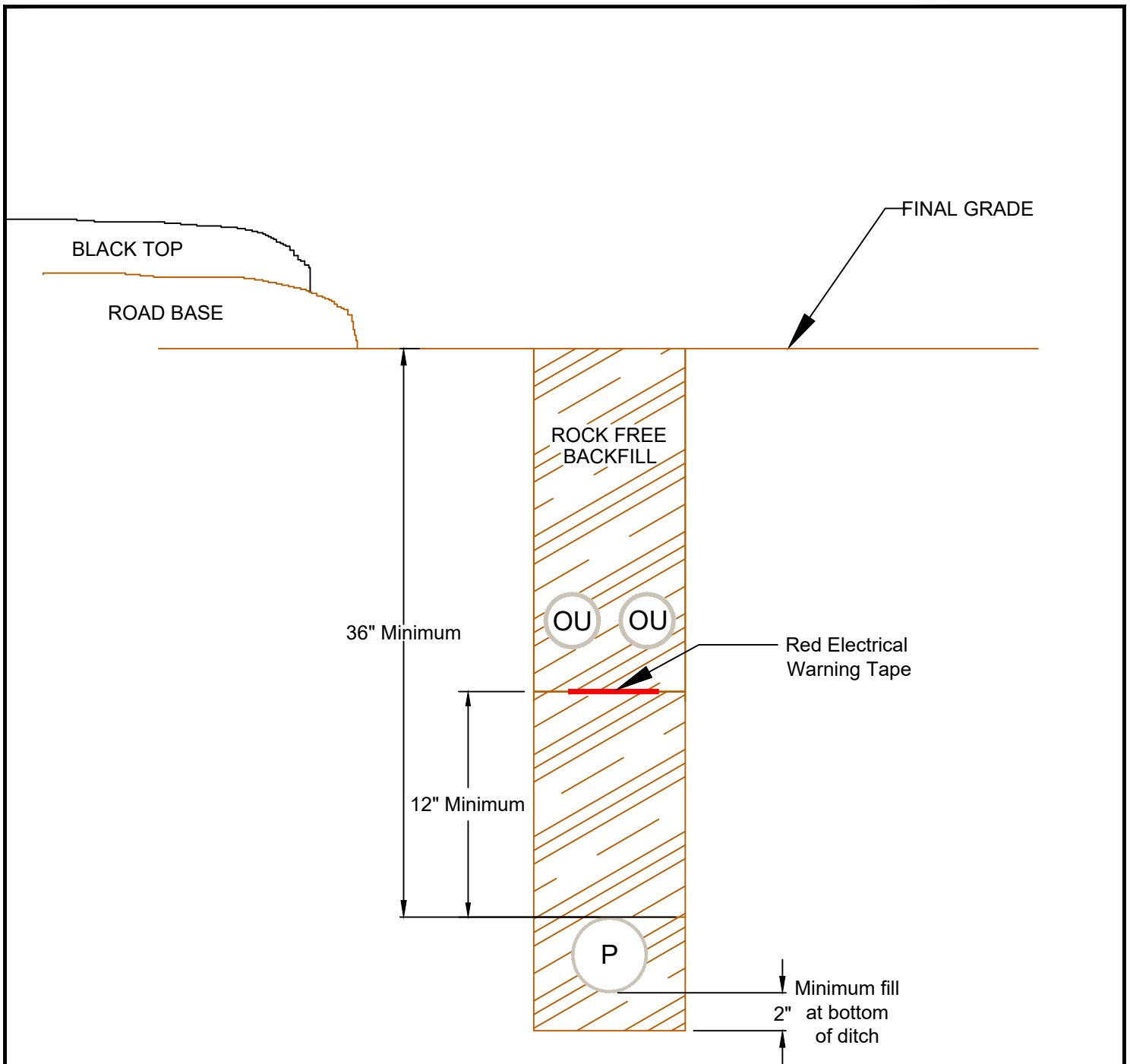
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Typical Trench Details



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Single Conduit Arrangement for Primary, Joint with other Utilities

drawn by:

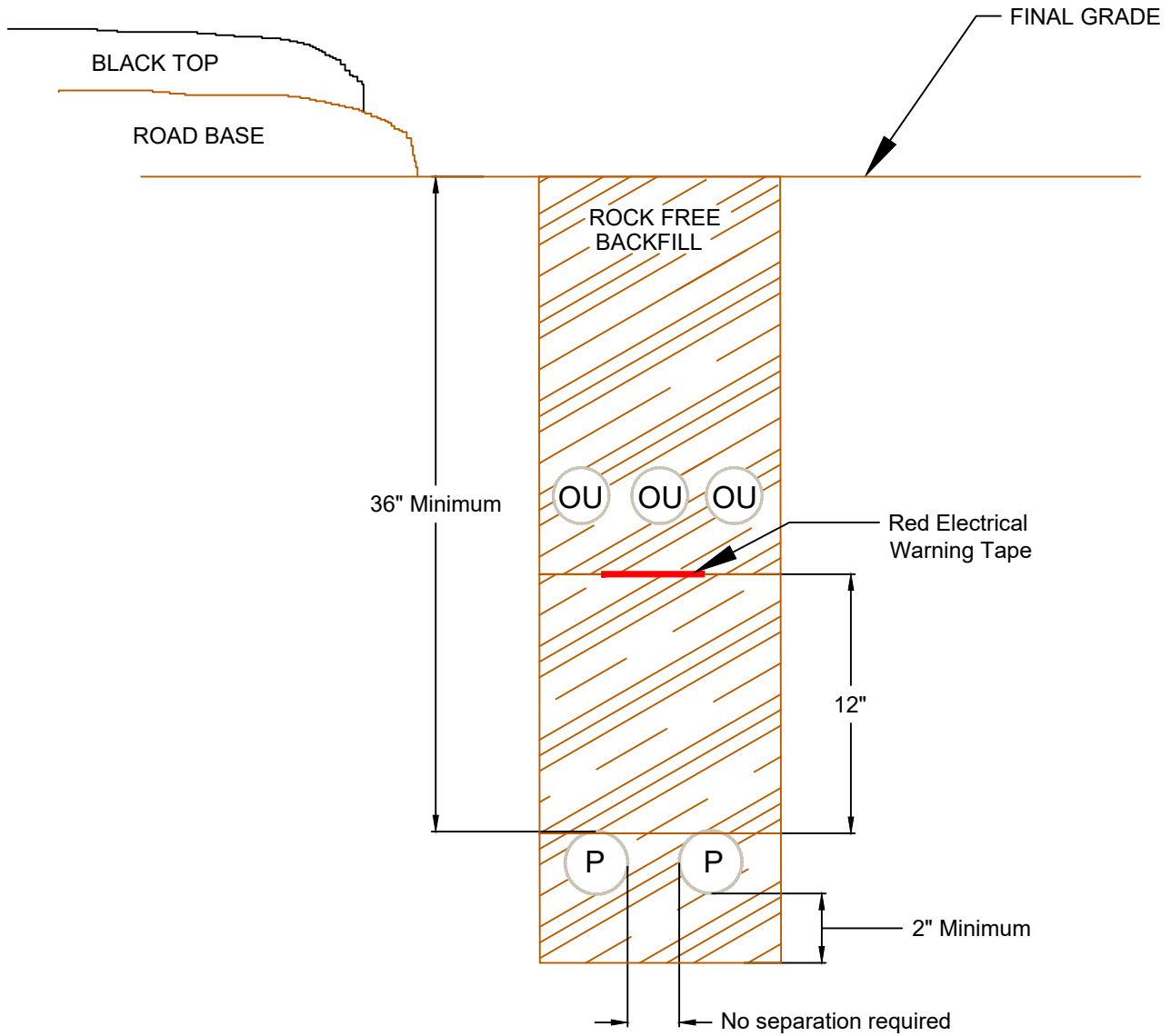
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Reference Page 1
Typical Trench Details



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Two Conduit Arrangement Joint with other Utilities

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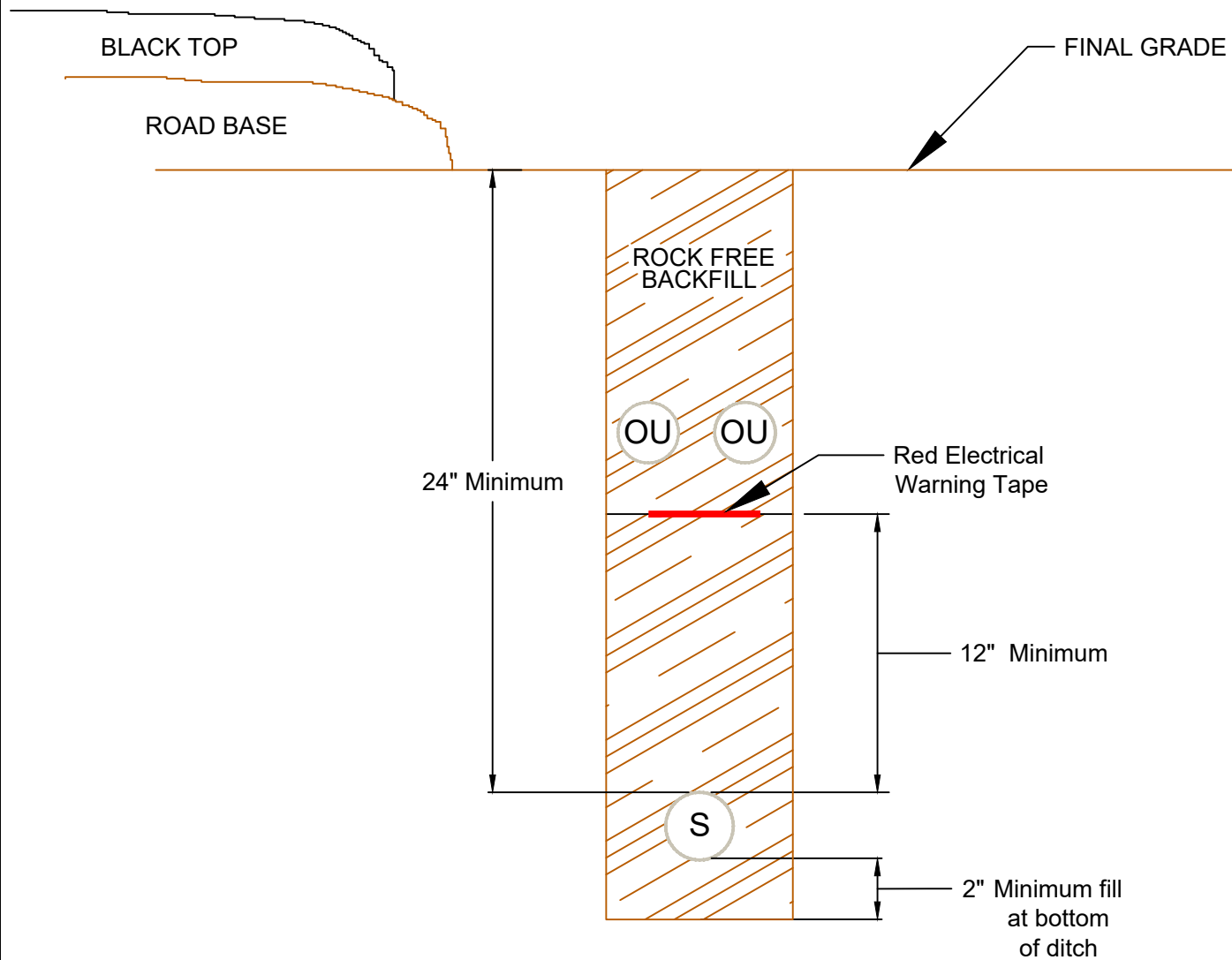
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Single Conduit Arrangement for Service

drawn by:

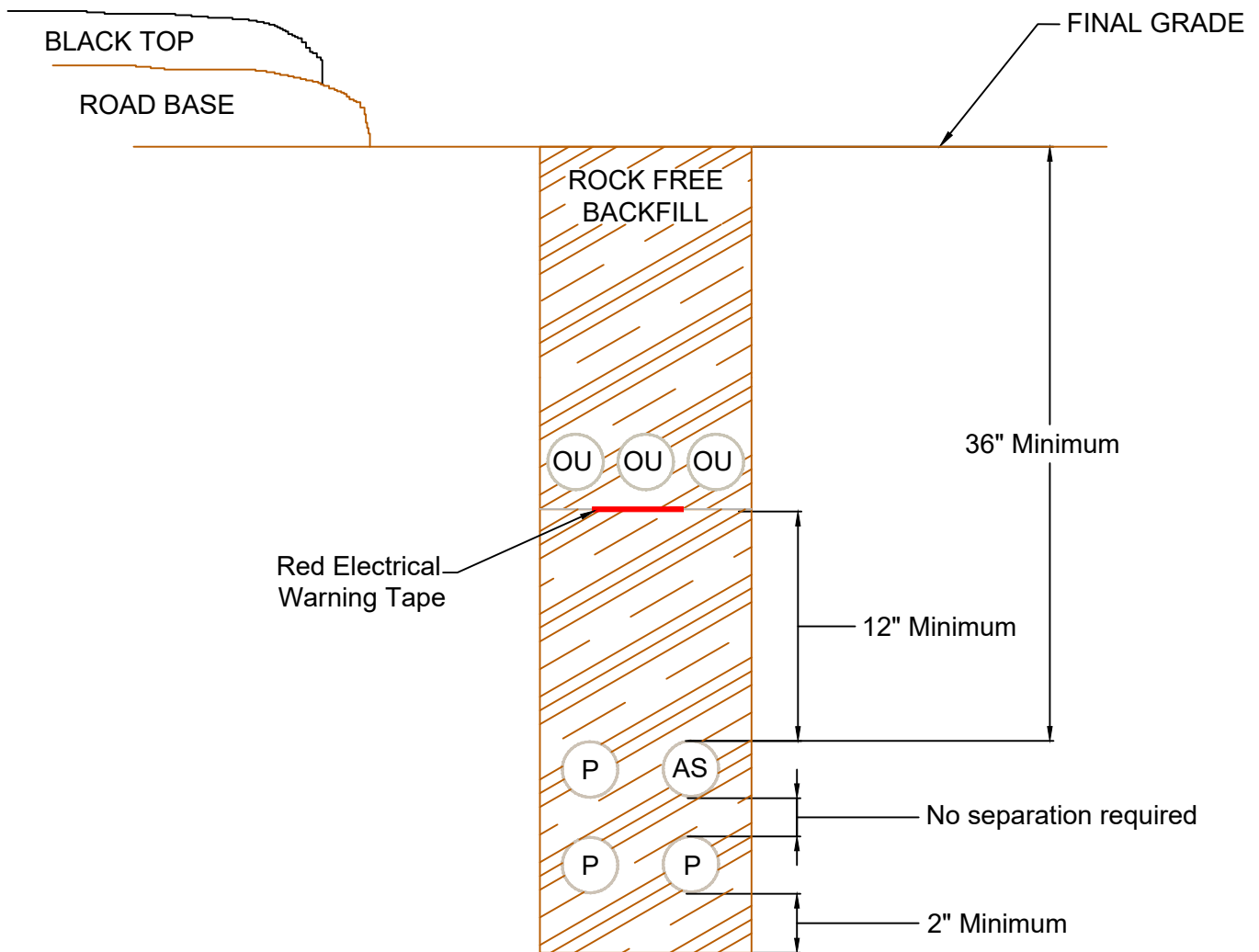
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Multiple Conduit Arrangement Joint with other Utilities

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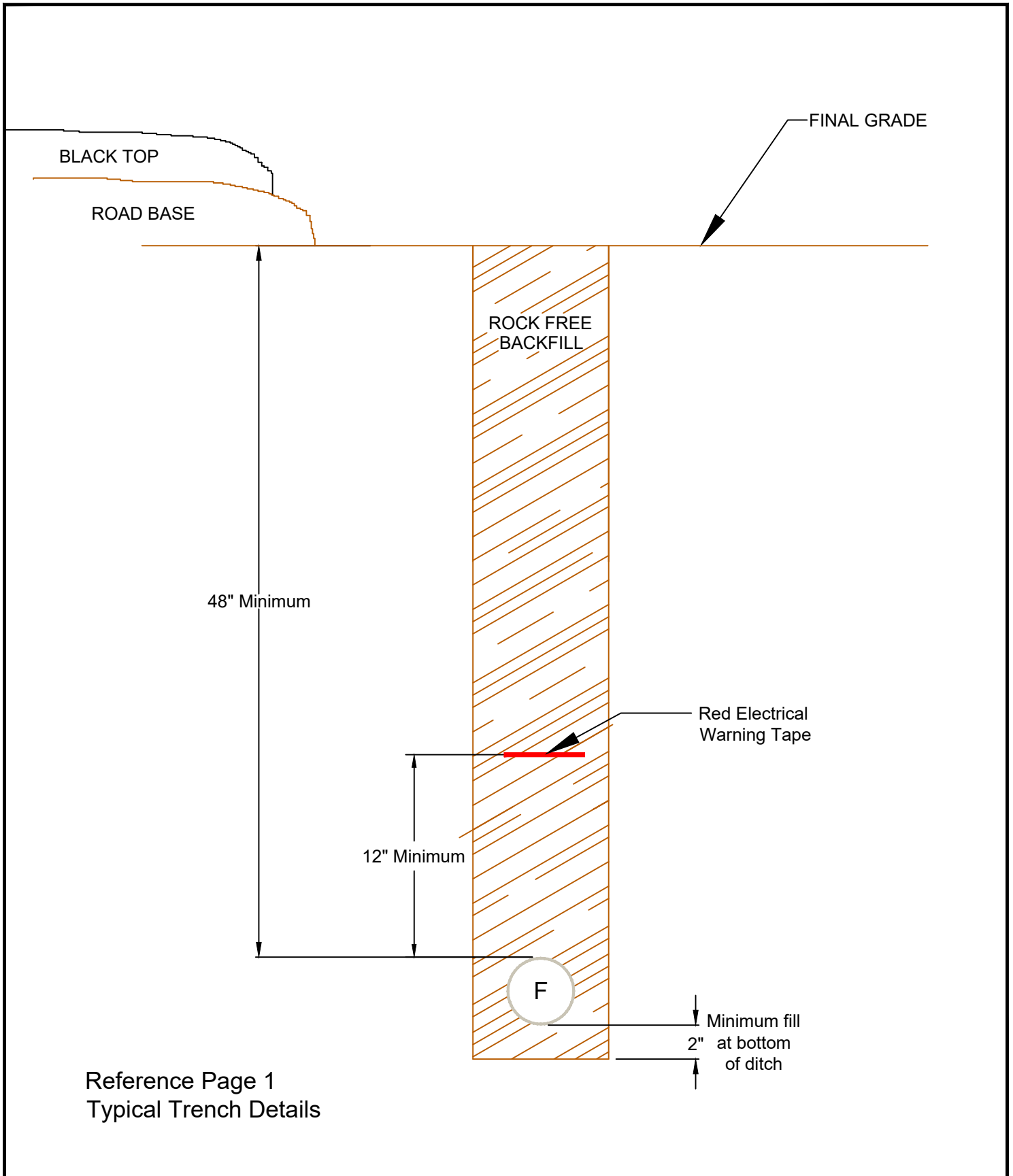
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Single Feeder Conduit

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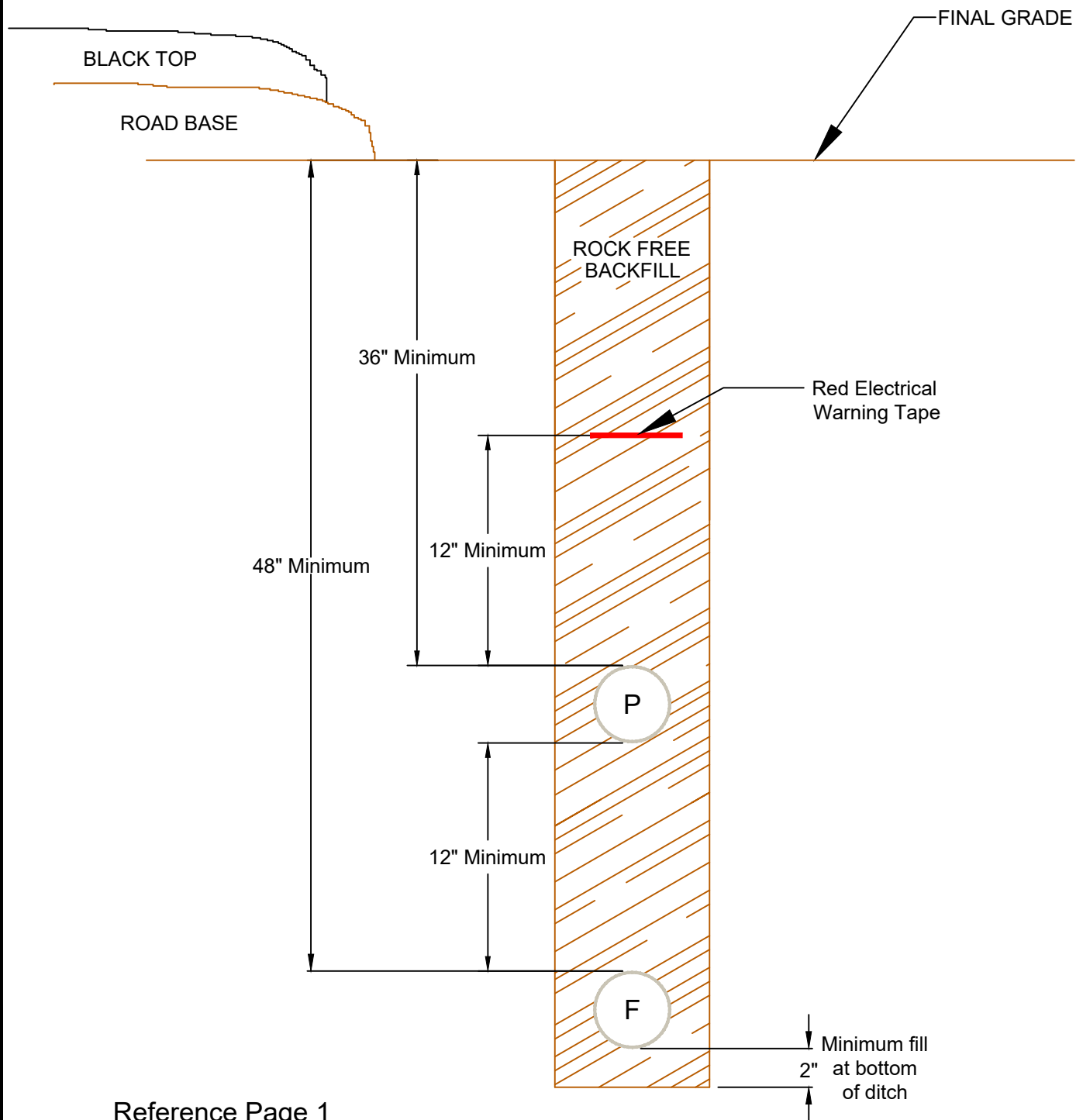
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Typical Trench Details



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Single Conduit Arrangement for Feeder and Primary

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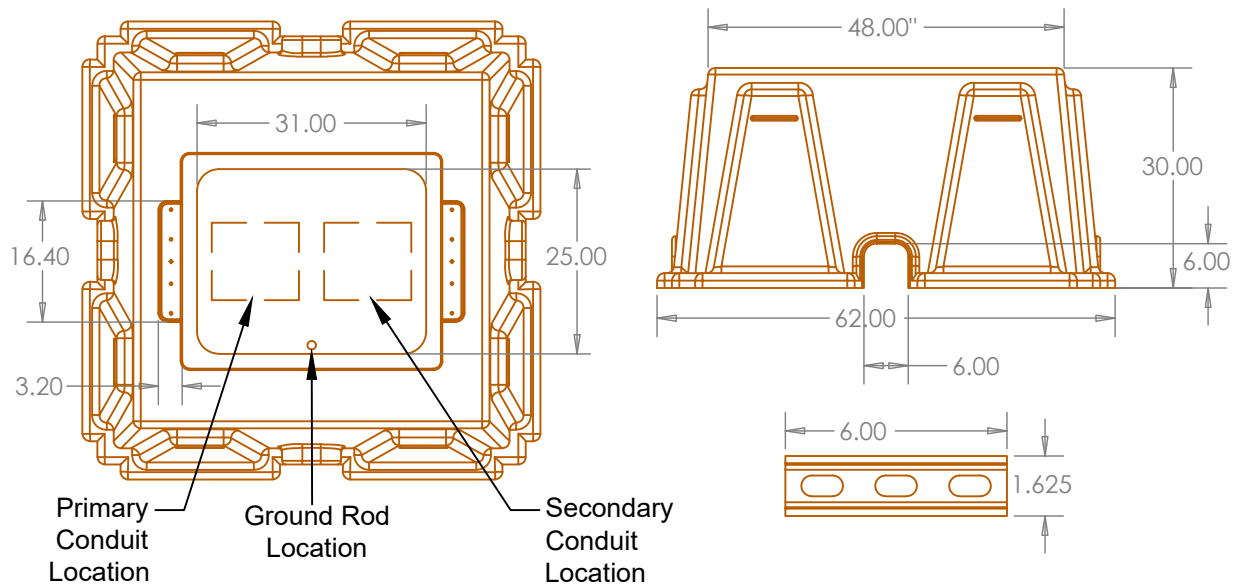
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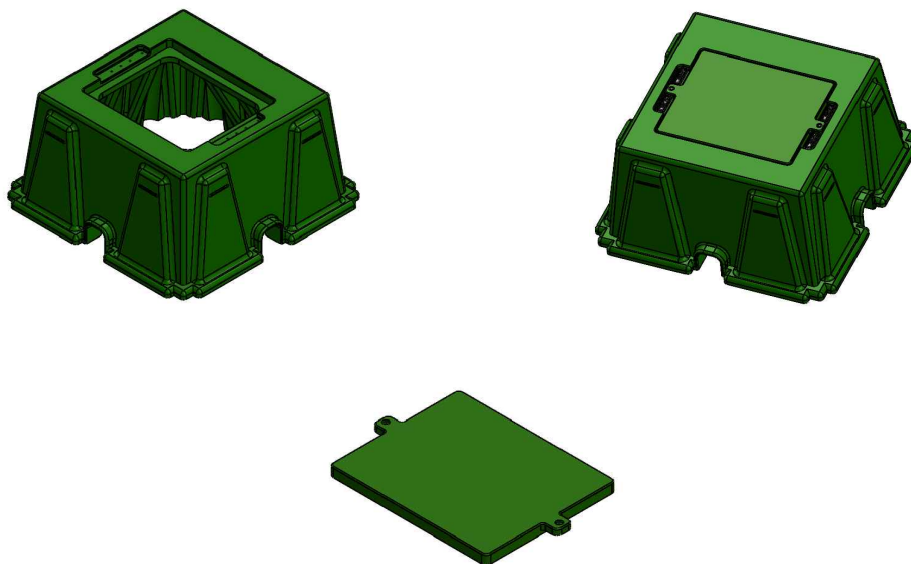
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UM1.1



Notes:

1. Install per manufacturer's instructions.
2. When using UM1.1 for sectionalizing enclosure specify Lid UM1.1T.
3. Conduit to be no higher than 4" to 6" above grade level.

Item	TCEC Material #	Quantity	Manufacturer	Manuf. Part #	Item Description
UM1.1	00000232	1	Advanced Pedestals Inc.	PFTBP484830MG	Transformer Box Pad W/Lid



Main: 817.444.3201
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TRANSFORMER PAD
48" X 48'

drawn by:

AK

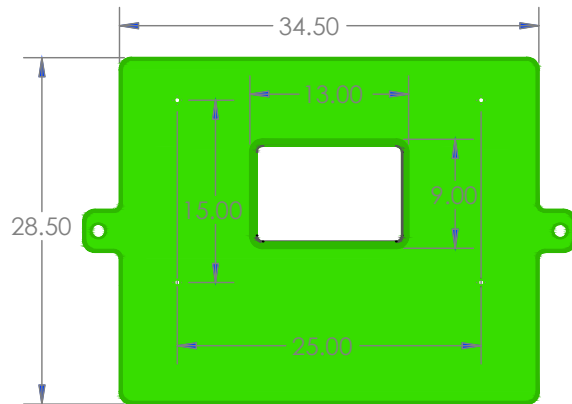
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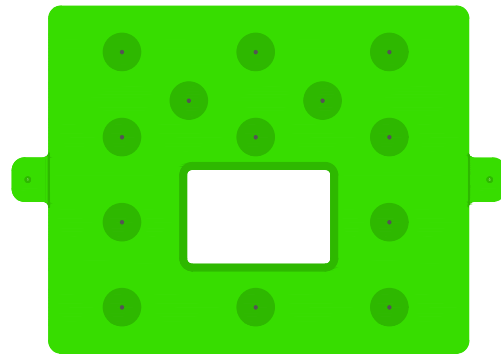
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UM1.1T



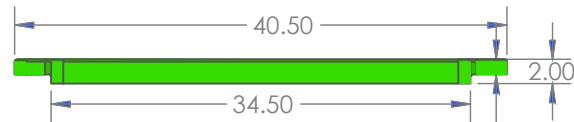
Top View



Bottom View



Left/Right View



Front Back View 1.25

Notes:

1. Lid to be utilized with Pad UM1.1 when a sectionalizing cabinet is to be utilized in place of the transformer.

Item	TCEC Material #	Quantity	Manufacturer	Manuf. Part #	Item Description
UM1.1T	00000042	1	Advanced Pedestals Inc.	PFTBP1224LIDMG	Pad Lid for Cabinet



Main: 817.444.3201
Inspections:
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Email: woclerks@tcectexas.com

SECTIONALIZING LID FOR 48" X 48' PAD

drawn by:

AK

approved by:

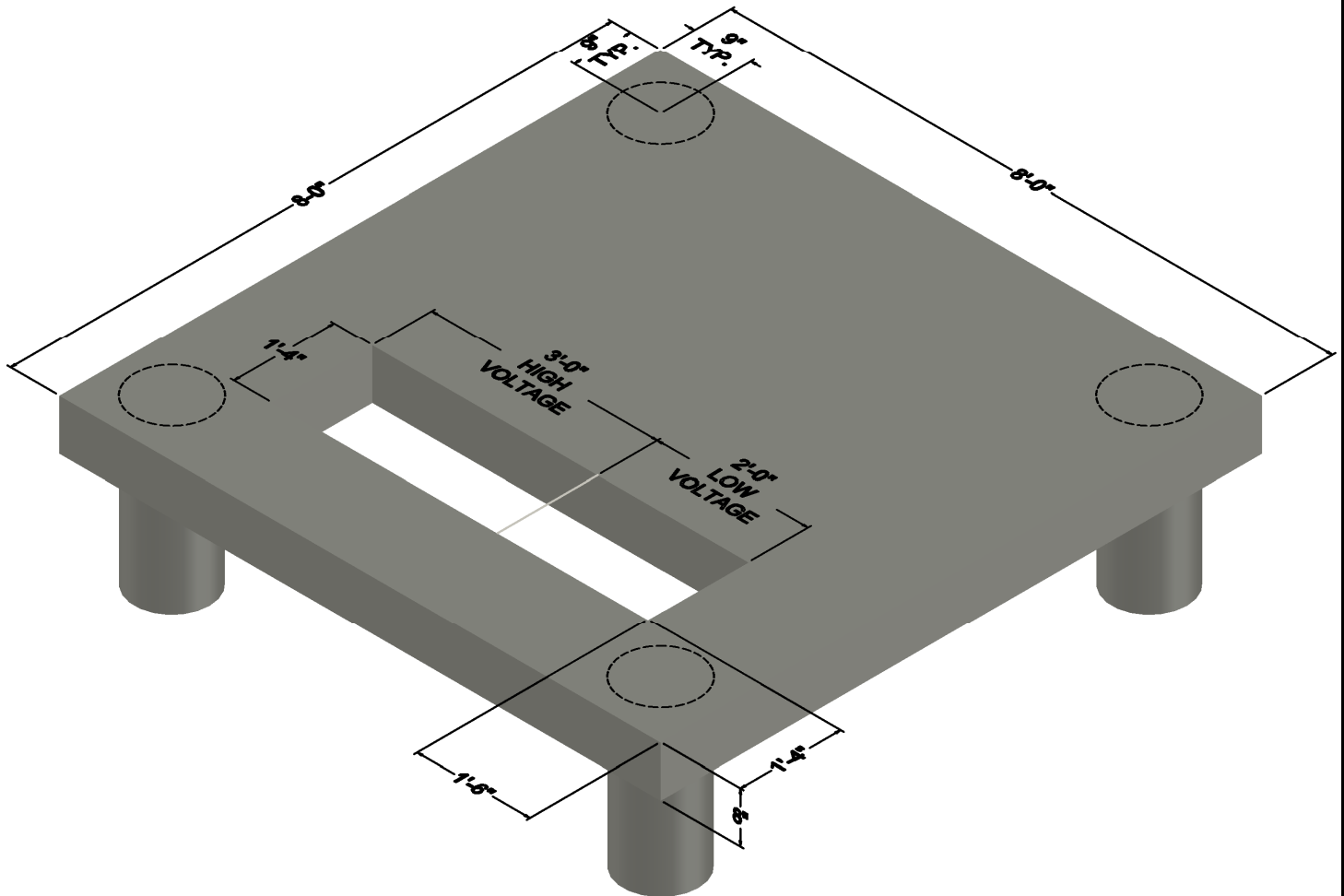
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NOTES:

1. SOIL TO BE COMPACTED AT PAD SITE.
2. 12" PIERS DRILLED AT CORNERS OF PAD SHALL EXTEND 5' INTO THE GROUND. PIERS SHALL HAVE #4 BARS AT 90 DEGREE INTERVALS WITH 9" RINGS EVERY 12". PIER BARS MUST BE TIED TO PAD.
3. 8" THICK #4 BARS SET ON 8" CENTERS TO EXTEND 1" INSIDE THE EDGE OF PAD.
4. CONCRETE TO HAVE MINIMUM OF STRENGTH OF 3000 PSI.
5. PADS TO BE SQUARE AND LEVEL.



UM1-3P



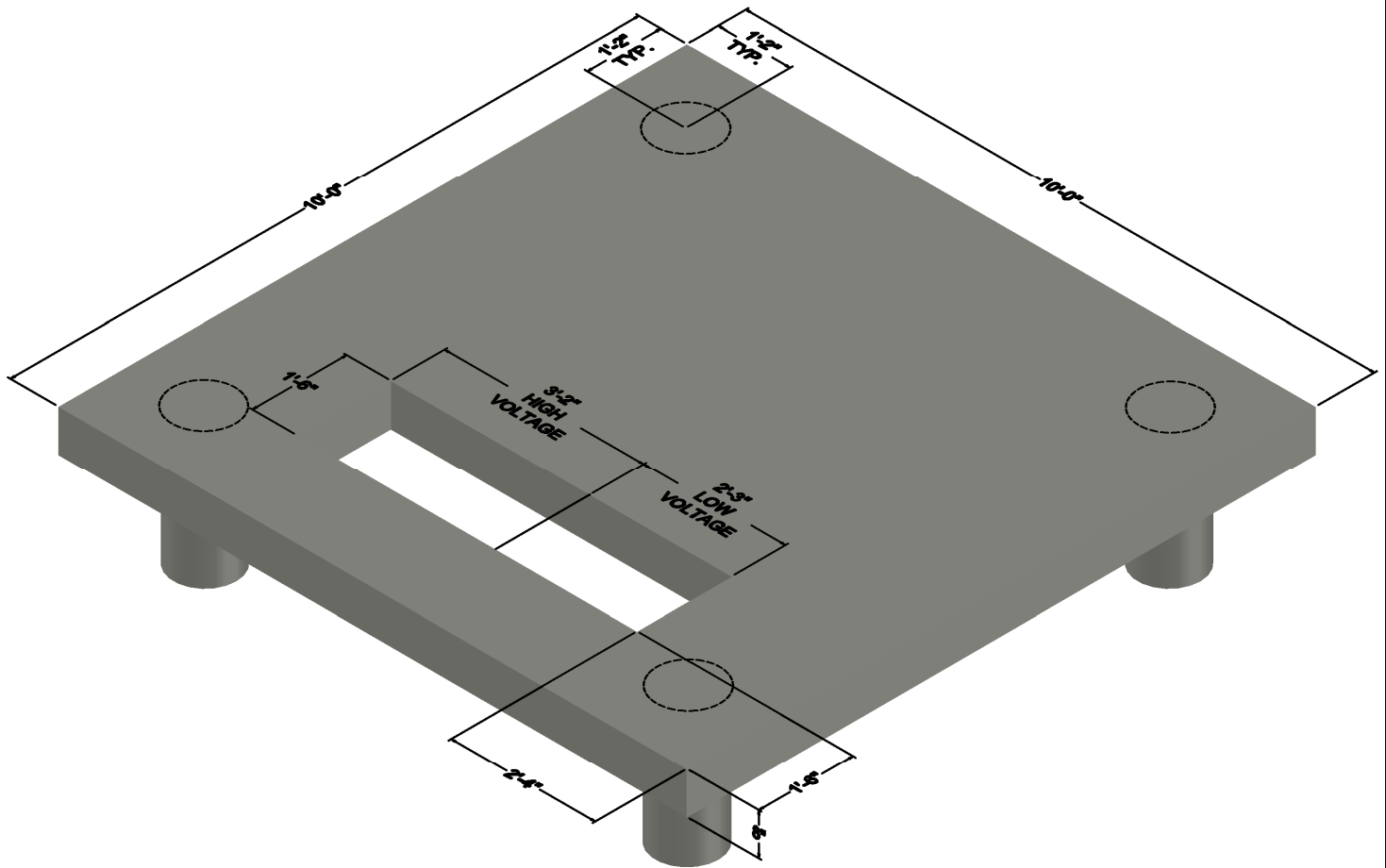
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**TRANSFORMER PAD - POURED IN PLACE
 75 KVA to 500 KVA**

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NOTES:

1. SOIL TO BE COMPACTED AT PAD SITE.
2. 12" PIERS DRILLED AT CORNERS OF PAD SHALL EXTEND 5' INTO THE GROUND. PIERS SHALL HAVE #4 BARS AT 90 DEGREE INTERVALS WITH 9" RINGS EVERY 12". PIER BARS MUST BE TIED TO PAD.
3. 8" THICK #4 BARS SET ON 8" CENTERS TO EXTEND 1" INSIDE THE EDGE OF PAD.
4. CONCRETE TO HAVE MINIMUM OF STRENGTH OF 3000 PSI.
5. PADS TO BE SQUARE AND LEVEL.



UM1-3LP



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**TRANSFORMER PAD POURED IN PLACE
 750 KVA to 3500 KVA**

drawn by:

AK

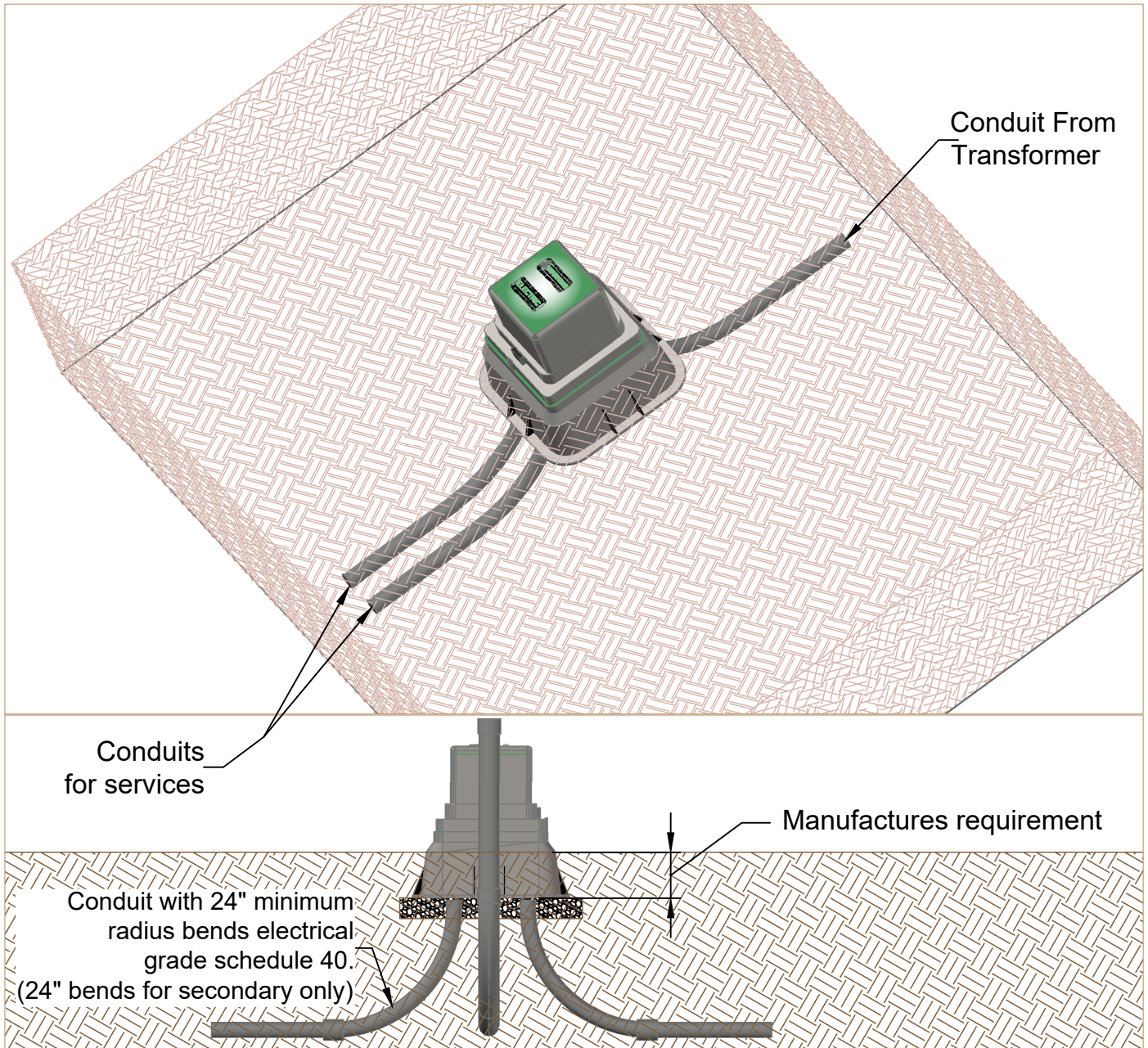
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UK5/UK5LG



Designer to specify quantity and size of sweeps required.
Secondary Connector blocks are included with enclosure.

Item	TCEC Material #	Quantity	Manufacturer	Manuf. Part #	Item Description
UK5/UK5LG	00000055	1	Advanced Pedastals Inc.	PFTR1121WBST001	Buried Pedestal



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SECONDARY ENCLOSURE

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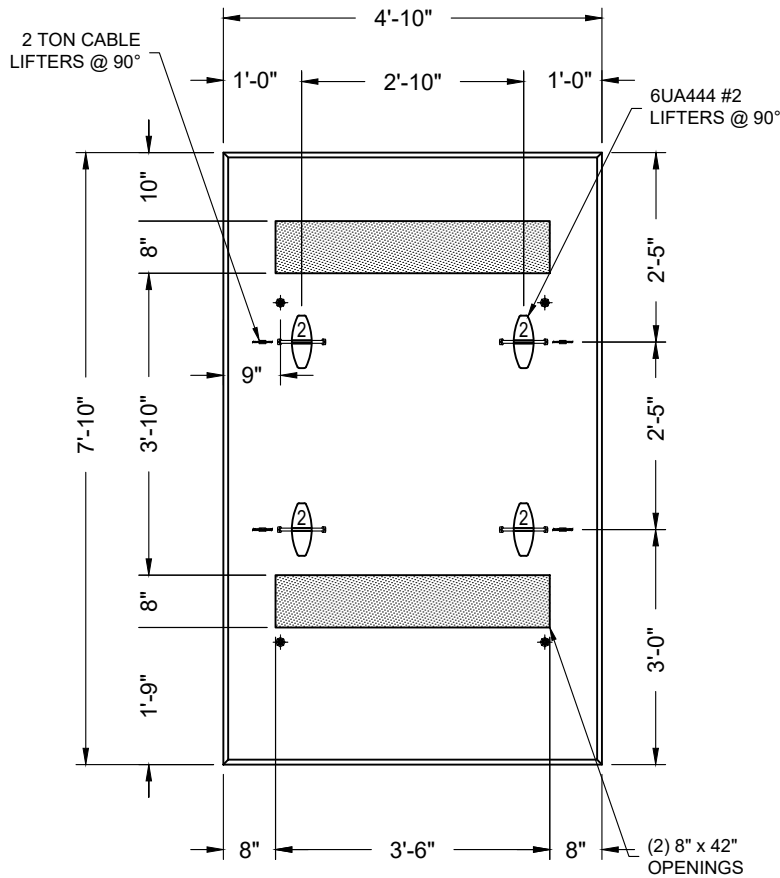
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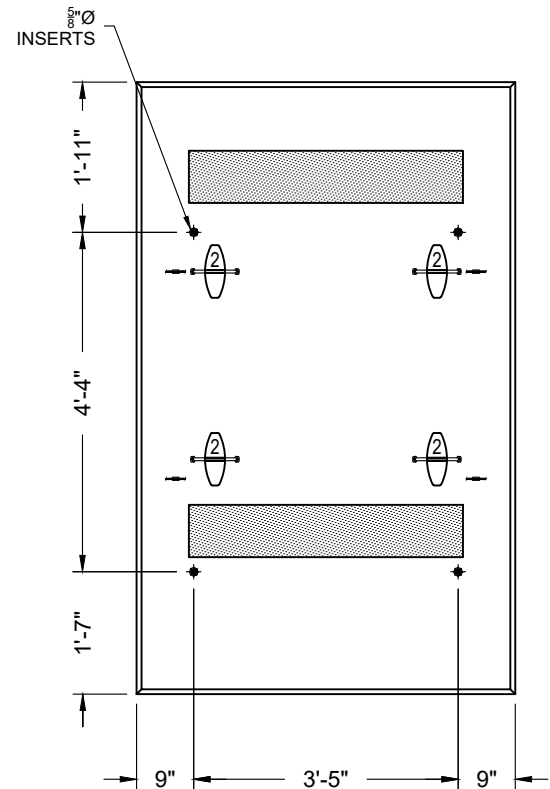
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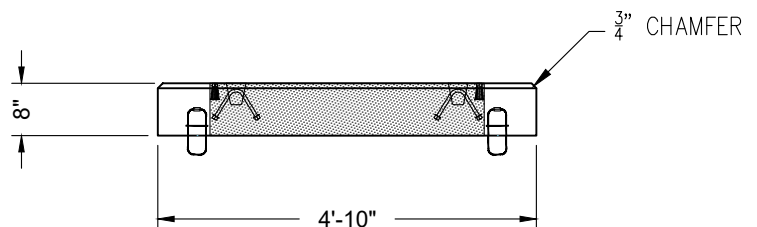
UM3E-1P



PLAN VIEW
LIFTERS & OPENINGS
DIMENSIONS



PLAN VIEW
INSERT DIMENSIONS



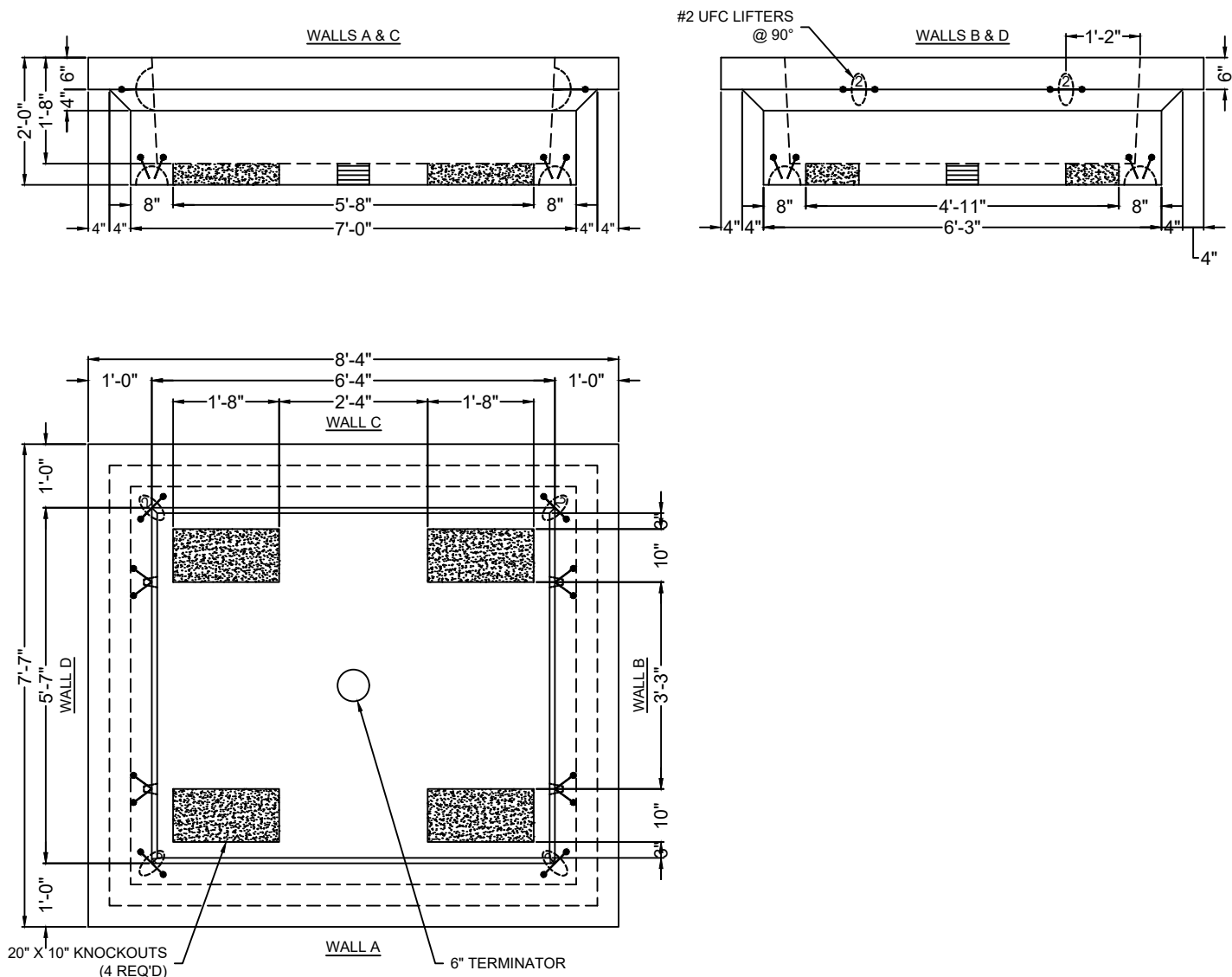
ELEVATION VIEW

- 1) ALL CONCRETE TO HAVE 28 DAY COMPRESSIVE STRENGTH OF 6,000 PSI
- 2) CEMENT: TYPE I/II/III
- 3) STEEL REINFORCEMENT: REBAR, ASTM A-615 GRADE 60
- 4) DESIGN LOADINGS:
 - A. WEIGHT OF EQUIPMENT: 5,000 LBS.

Item	TCEC Material #	Quantity	Manufacturer	Manuf. Part #	Item Description
UM3E-1P	00000169	1	Oldcastle	Order by special request	Pad/Switchgear PME 3,4,5

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		drawn by:	approved by:	
		AK	BWN	
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UM3E-2P



Item	TCEC Material #	Quantity	Manufacturer	Manuf. Part #	Item Description
UM3E-2P	00000170	1	Oldcastle	1804800	Switchgear Pad PME 6, 9, 10, 11, 12



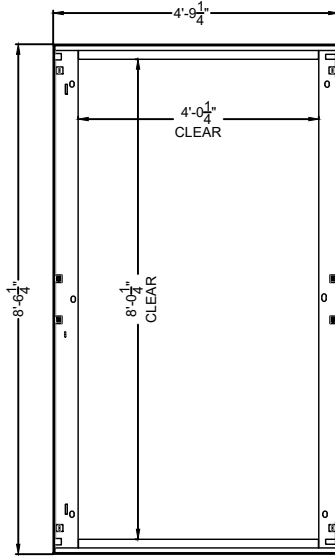
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Switchgear Pad, PME Figures 6, 9, 10, 11, and 12

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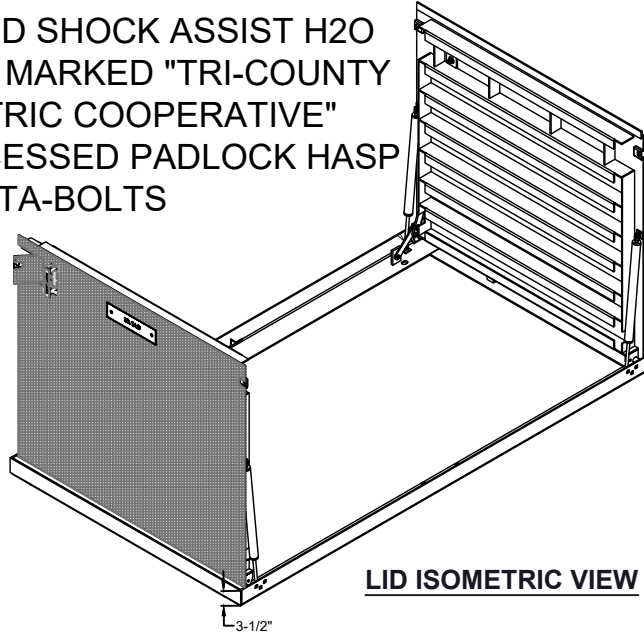
UMH4

HINGED SHOCK ASSIST H2O
DOOR MARKED "TRI-COUNTY
ELECTRIC COOPERATIVE"
w/RECESSED PADLOCK HASP
& PENTA-BOLTS



(COVERS NOT SHOWN FOR CLARITY)

LID TOP VIEW

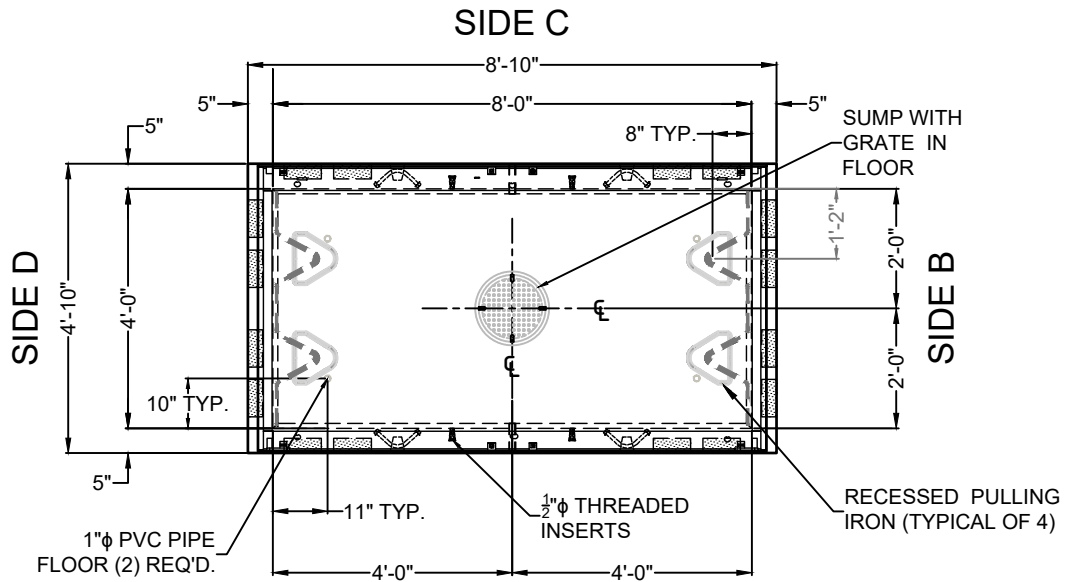


LID ISOMETRIC VIEW

SPECIFICATIONS

1. Concrete: Has a Design Strength of 6,000 PSI at 28 Days.
2. Steel Reinforcement: ASTM A-615 Grade 60.
3. Loading: Designed for H2O Loading.

PLAN VIEW



Notes:

1. Specify Unit UM48-1 for grounding.

SIDE A

NOT TO SCALE



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Vault 4 x 8 x 4 (Inside Dimension)

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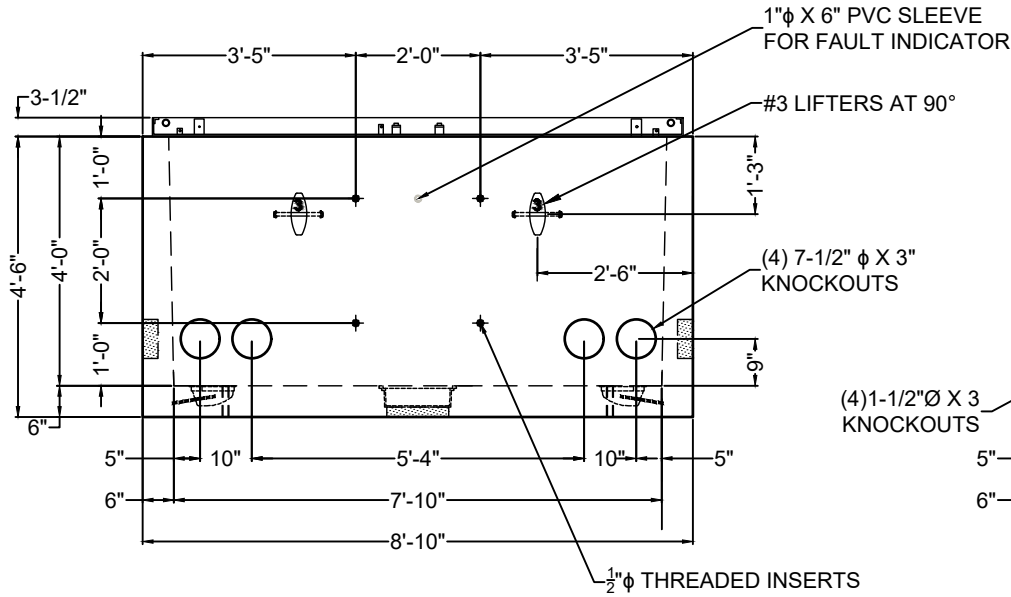
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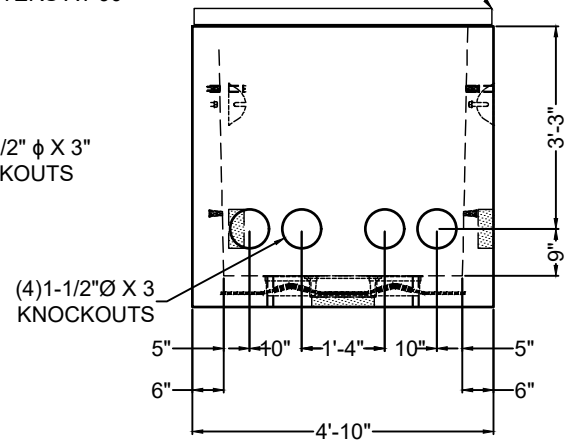
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UMH4

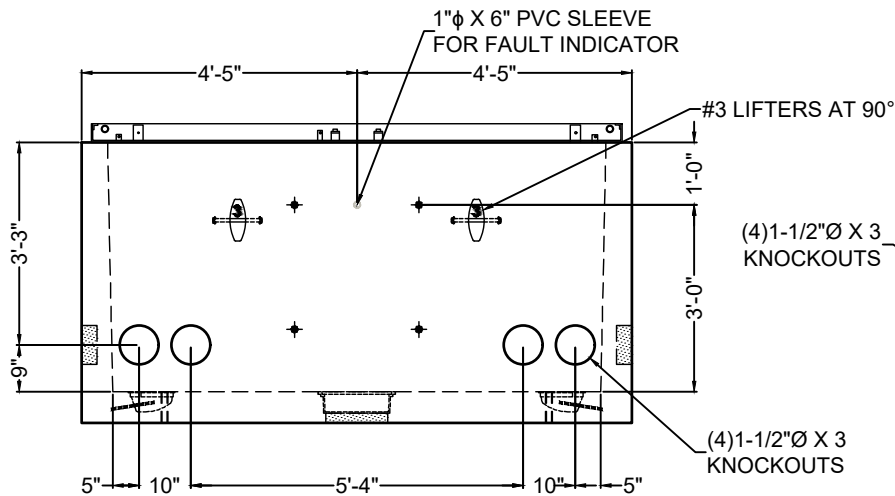
HINGED SHOCK ASSIST H-20 DOOR MARKED
"TRI-COUNTY ELECTRIC COOPERATIVE" w/RECESSED
PADLOCK HASP, PENTA-BOLTS, & BRACKETS



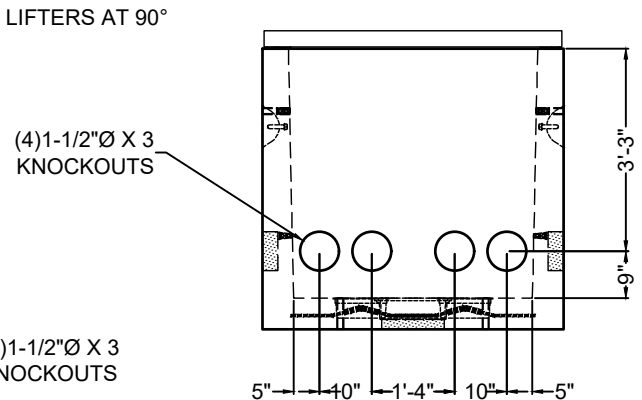
VIEW SIDE B



VIEW SIDE B



VIEW SIDE C



VIEW SIDE D

NOT TO SCALE

Item	TCEC Material #	Quantity	Manufacturer	Manuf. Part #	Item Description
UMH4	00000402	1	Oldcastle	1001590/7207515	Vault/Underground 48" x 96" 48" - Concrete



Main: 817.444.3201
Inspections:
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Email: woclerks@tcectexas.com

Vault 4 x 8 x 4 (Inside Dimension)

Page 2 of 2

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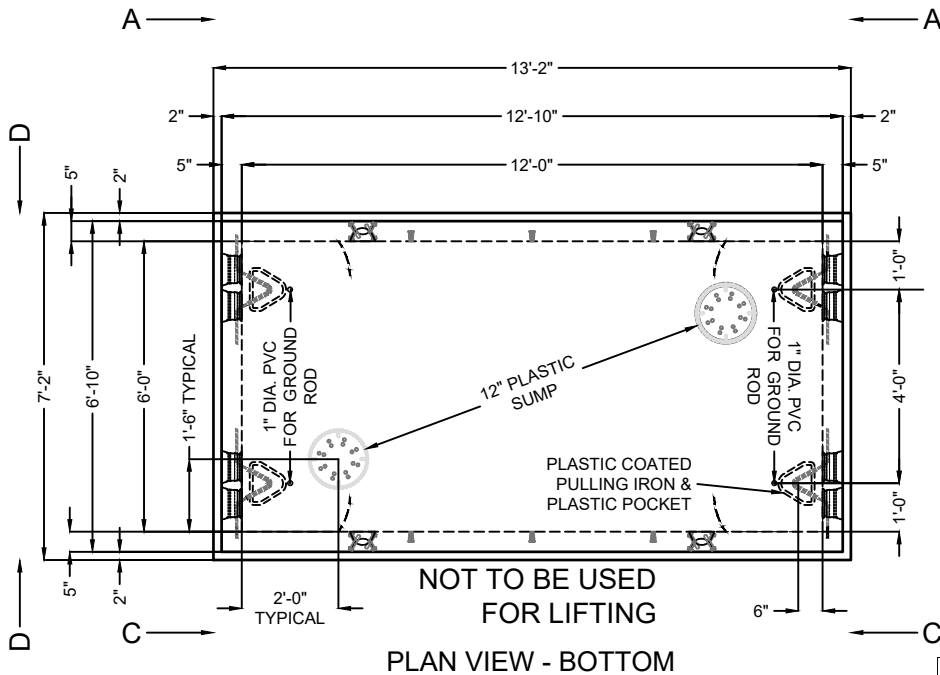
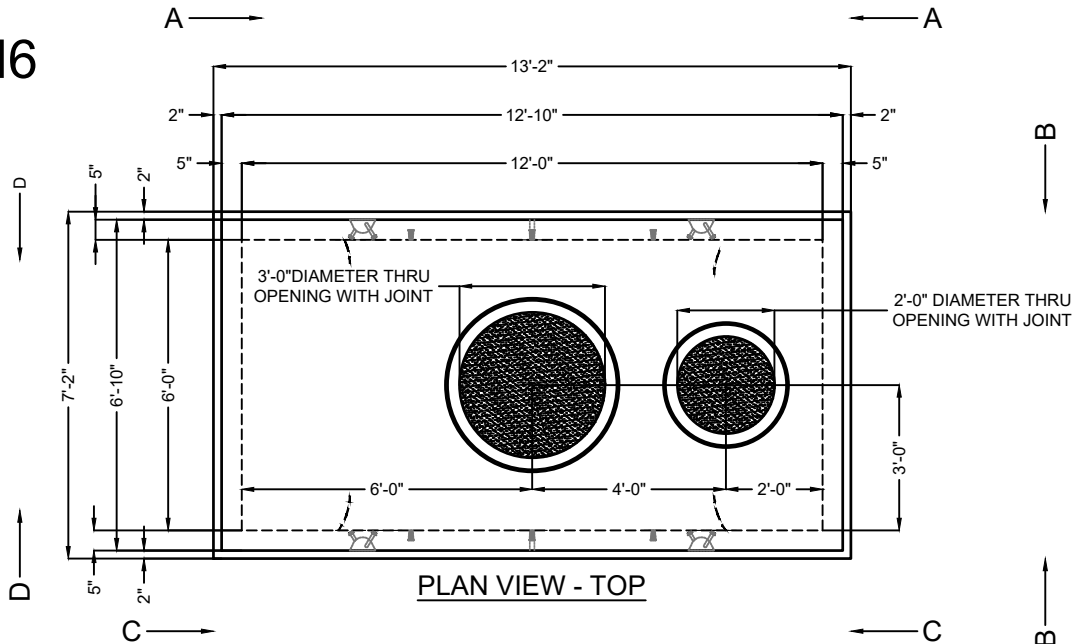
approved by:

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UMH6



**PREFERRED
VAULT,
ALTERNATE
USE UMH8-12**

Notes:

1. Cable shall be racked on the walls of the manhole.
2. Specify Junction Terminal. See Unit UM6-22.
3. Specify quantity and size T- Connector Kit. See Unit UM40.
4. Specify quantity and size Load Break Elbows. See Unit UM6-1.
5. Specify Unit UM48-3 for grounding.
6. Specify Unit UM6-34 or UVM6-34 for arresters on the back of T-Connectors.

Neck Extensions - 24" Diameter		
Unit	Length (inches)	Material Number
UMH2-6	6	00000413
UMH2-12	12	00000414
UMH2-18	18	00000415
UMH2-24	24	00000416
UMH2-30	30	00000417
UMH2-36	36	00000418

Neck Extensions - 36" Diameter		
Unit	Length (inches)	Material Number
UMH1-6	6	00000420
UMH1-12	12	00000421
UMH1-18	18	00000422
UMH1-24	24	00000423
UMH1-30	30	00000424
UMH1-36	36	00000425



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6'-0" X 12'-0" X 7'-0" Electric Manhole Page 1 of 3

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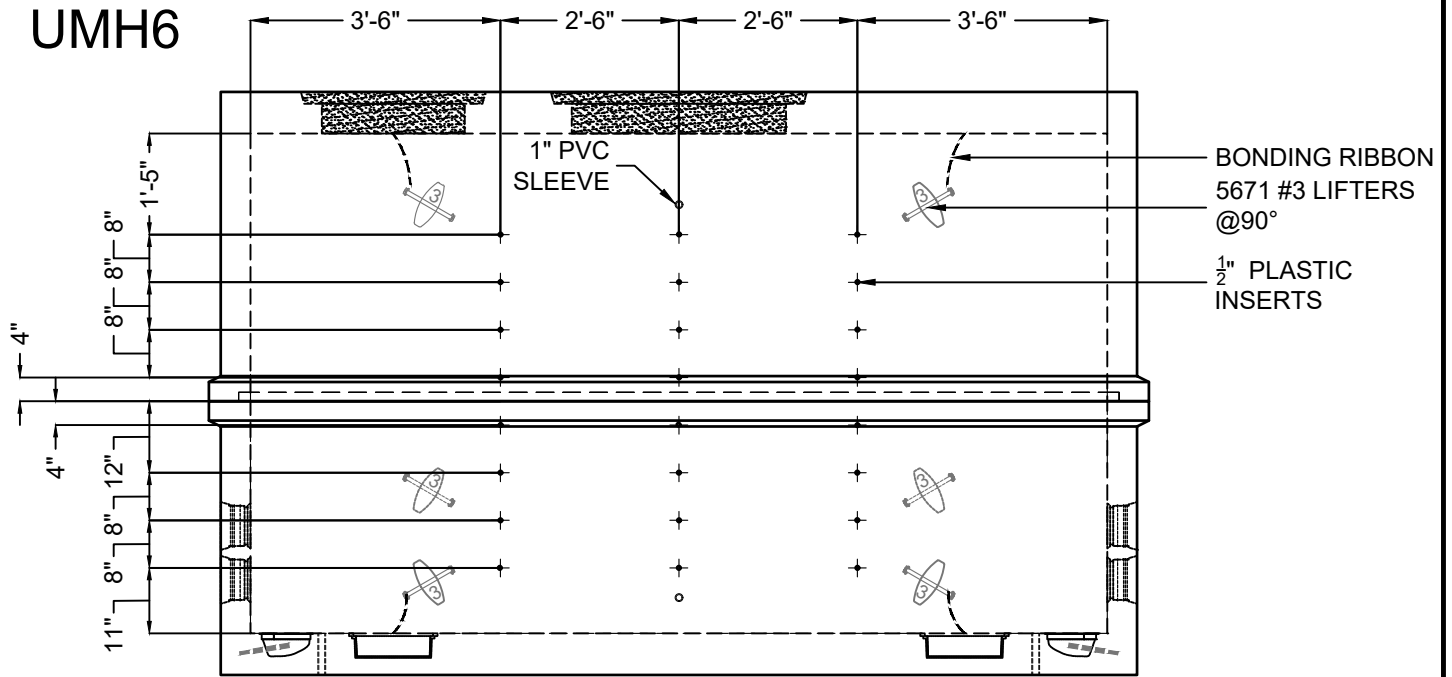
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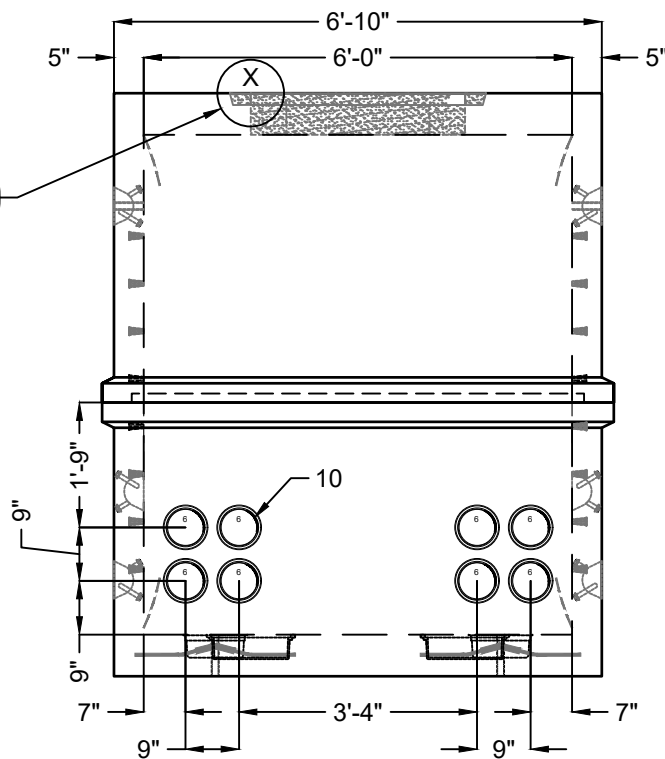
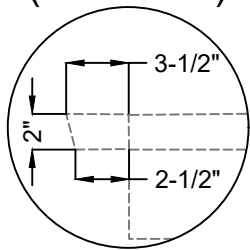
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UMH6



VIEW A

**JOINT
DETAIL X
(TYPICAL)**



VIEW B



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6'-0" X 12'-0" X 7'-0" Electric Manhole
 Page 2 of 3

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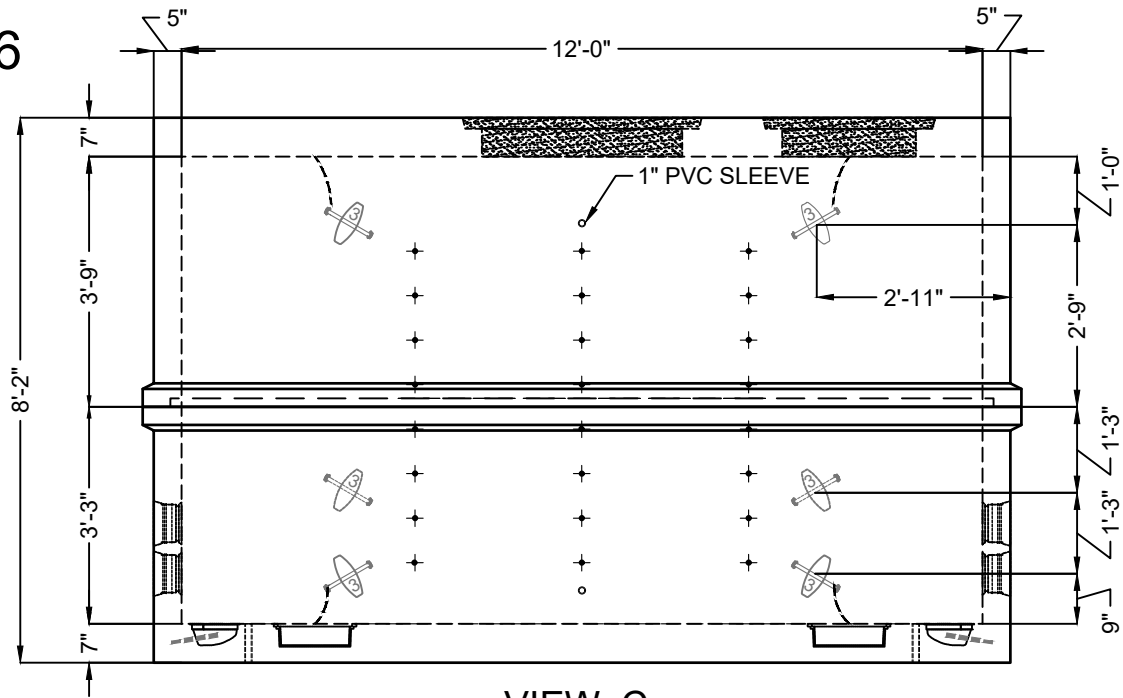
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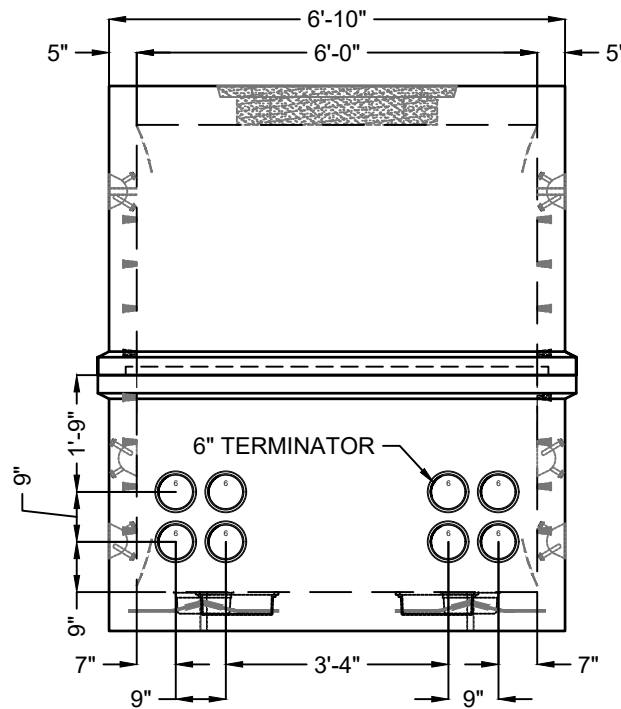
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UMH6



VIEW C



VIEW D

Item	TCEC Material #	Quantity	Manufacturer	Manuf. Part #	Item Description
UMH6	00000409	1	Oldcastle	6x12x7x5 Vault	Man Hole/Underground 6' x 12' - Concrete



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6'-0" X 12'-0" X 7'-0" Electric Manhole
Page 3 of 3

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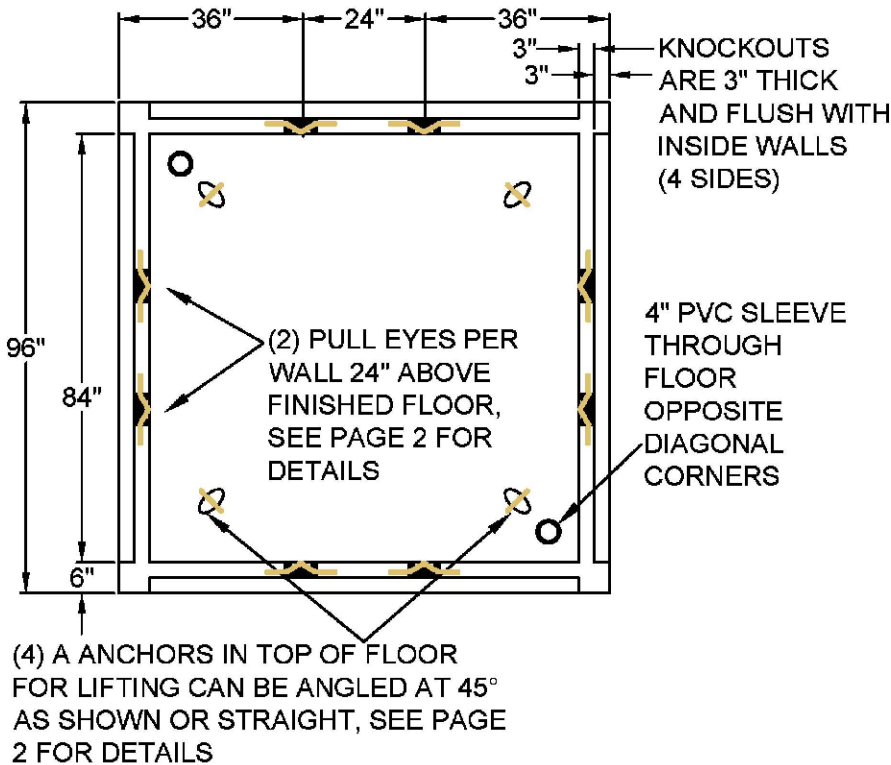
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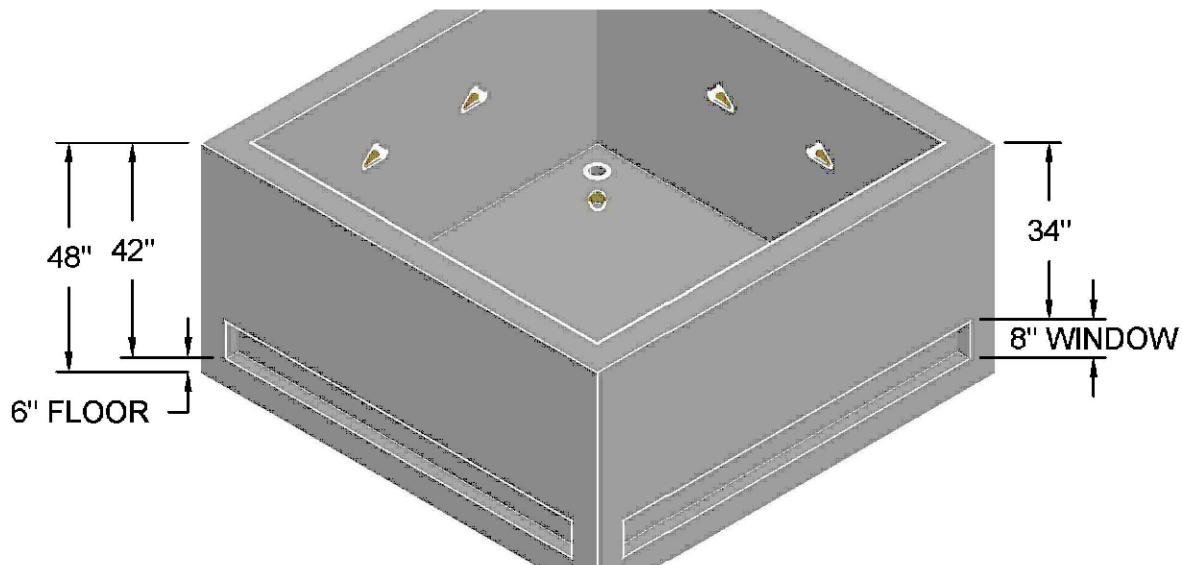
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Notes:

1. All concrete to have a 28 day compressive strength of 5000PSI. Shall comply with AASHTO HS 20-44 loading.
2. Each side wall shall have two pulling eyes located 24" apart, evenly spaced between the inside walls and 24" from bottom of the vault..
2. All lifting and pulling eyes shall be rated for a minimum of 5,000 pounds each.
3. 6" above the bottom of the vault, an 8" knockout shall extend around the entire perimeter of the vault (except for 6" from each corner). The knockouts shall be 3" thick and flush with inside of the vault.



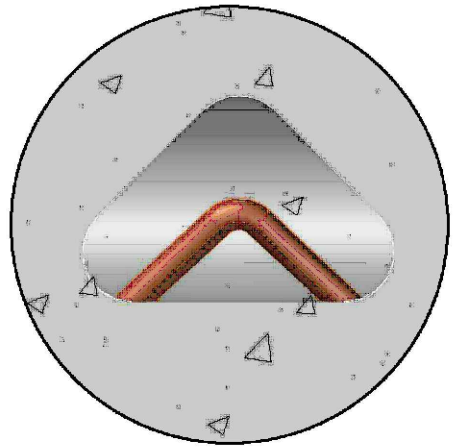
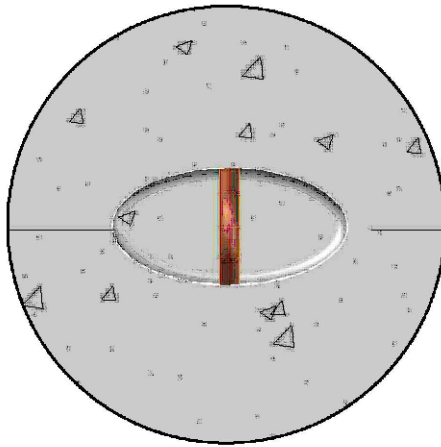
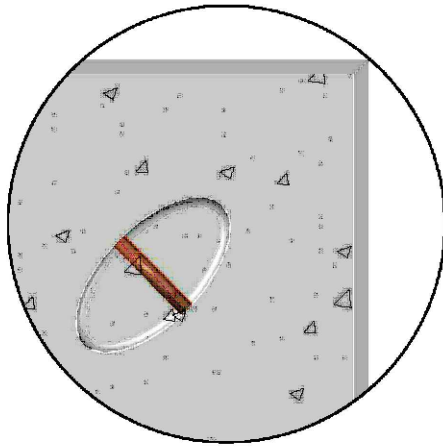
UMH7



Main: 817.444.3201
 Inspections:
 Call: 817.752.8172
 Email: woclerks@tcectexas.com

Vault 7 x 7 x 4 ID
 Page 1 of 2

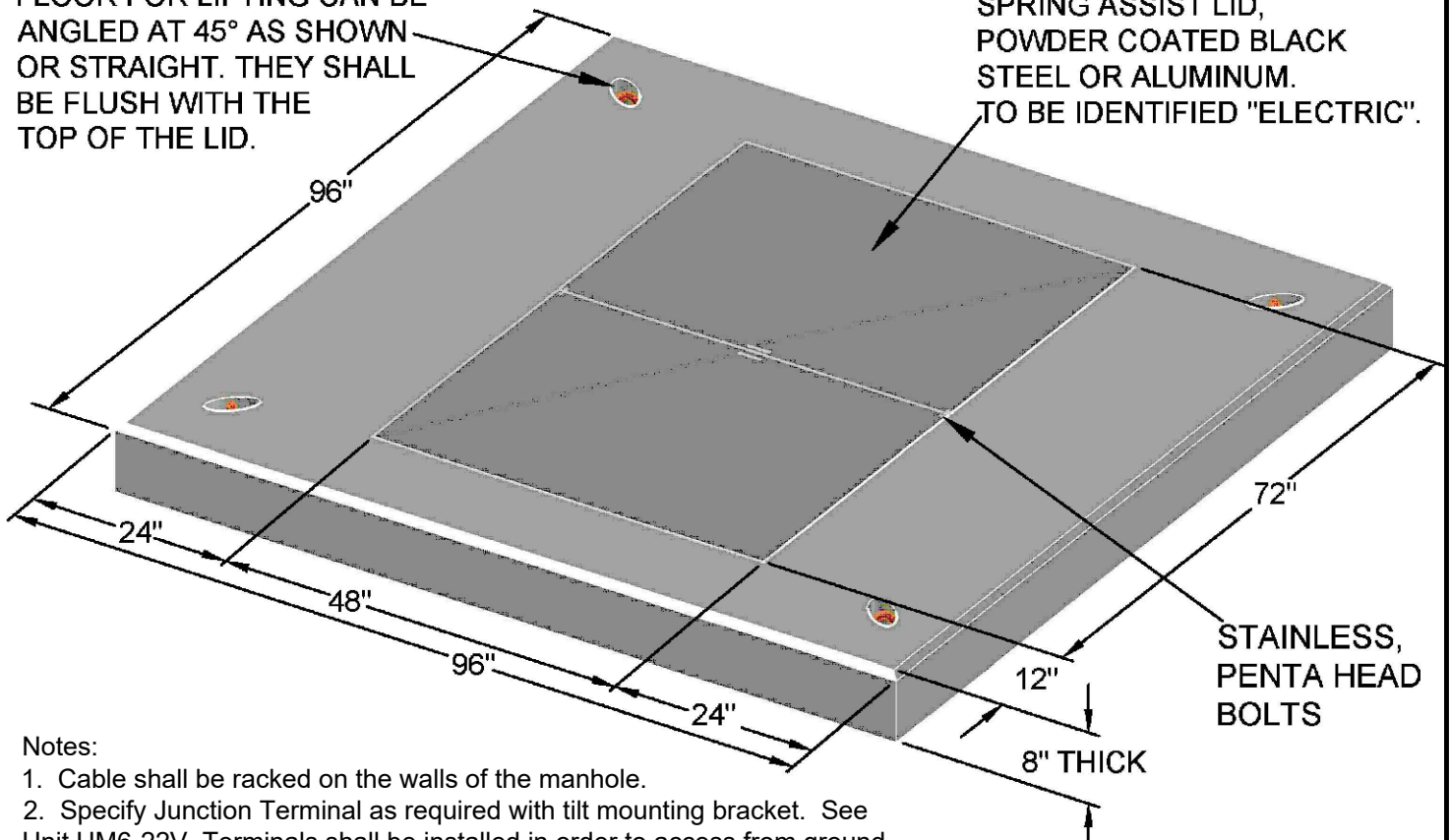
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AK	BWN		



LIFTING EYE AND CABLE PULLING EYE OPTIONS

(4) A ANCHORS IN TOP OF FLOOR FOR LIFTING CAN BE ANGLED AT 45° AS SHOWN OR STRAIGHT. THEY SHALL BE FLUSH WITH THE TOP OF THE LID.

48" X 72" DOUBLE LEAF, SPRING ASSIST LID, POWDER COATED BLACK STEEL OR ALUMINUM. TO BE IDENTIFIED "ELECTRIC".



STAINLESS, PENTA HEAD BOLTS

Notes:

1. Cable shall be racked on the walls of the manhole.
2. Specify Junction Terminal as required with tilt mounting bracket. See Unit UM6-22V. Terminals shall be installed in order to access from ground.
3. Specify quantity and size T- Connector Kit.. See Unit UM40.
4. Specify quantity and size Load Break Elbows. See Unit UM6-1.
5. Specify Unit UM48-3 for grounding.
6. Specify Unit UM6-34 or UVM6-34 for arresters on the back of T-Connectors.

UMH7

Item	TCEC Material #	Quantity	Manufacturer	Manuf. Part #	Item Description
UMH7	00000403	1	Oldcastle	1004180/100480	Vault/Underground 96" x 48" x 96" - Concrete

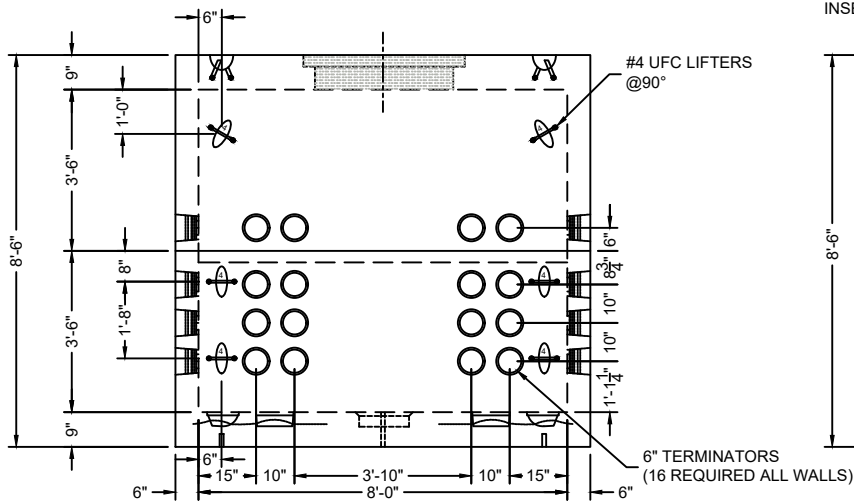


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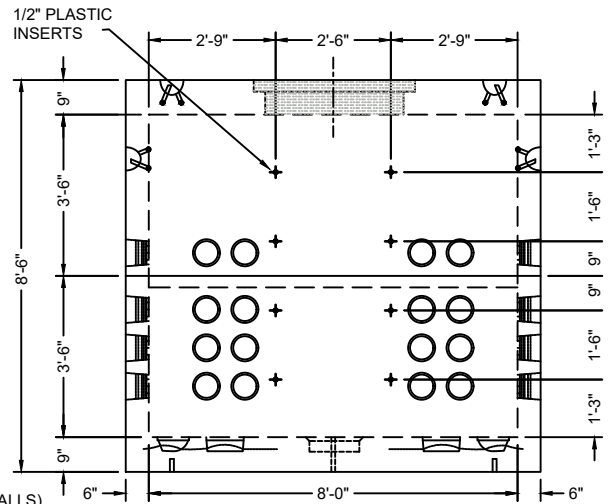
Vault 7 x 7 x 4 ID
Page 2 of 2

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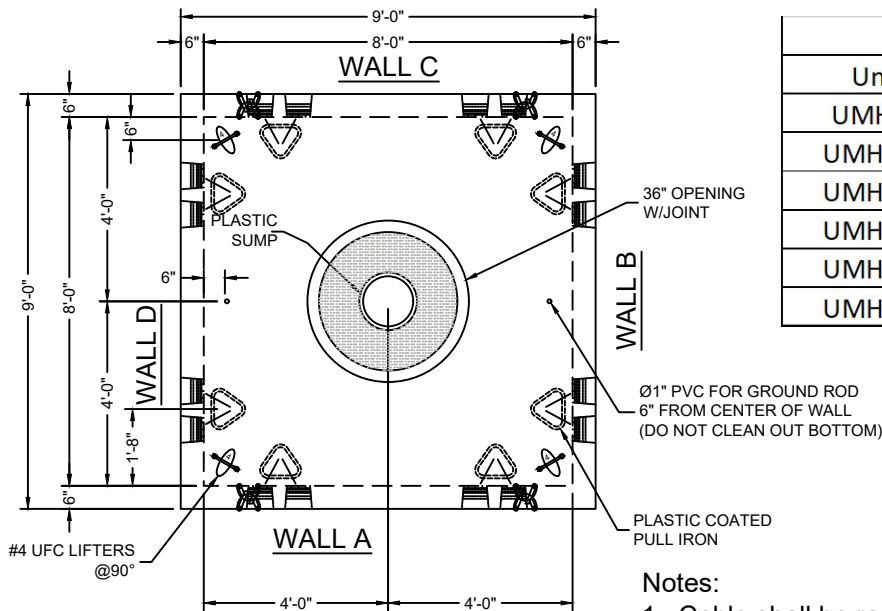
UMH8



WALLS A&C



WALLS B&D



PLAN VIEW

Neck Extensions		
Unit	Length (inches)	Material Number
UMH1-6	6	00000420
UMH1-12	12	00000421
UMH1-18	18	00000422
UMH1-24	24	00000423
UMH1-30	30	00000424
UMH1-36	36	00000425

Notes:

1. Cable shall be racked on the walls of the manhole.
2. Specify Junction Terminal. See Unit UM6-22.
3. Specify quantity and size T- Connector Kit.. See Unit UM40.
4. Specify quantity and size Load Break Elbows. See Unit UM6-1.
5. Specify Unit UM48-3 for grounding.
6. Specify Unit UM6-34 or UVM6-34 for arresters on the back of T-Connectors.

Item	TCEC Material #	Quantity	Manufacturer	Manuf. Part #	Item Description
UMH8	00000405	1	Oldcastle	1004730/1004750/7108150/710760	Manhole/Underground Medium 8' x 8' - Concrete

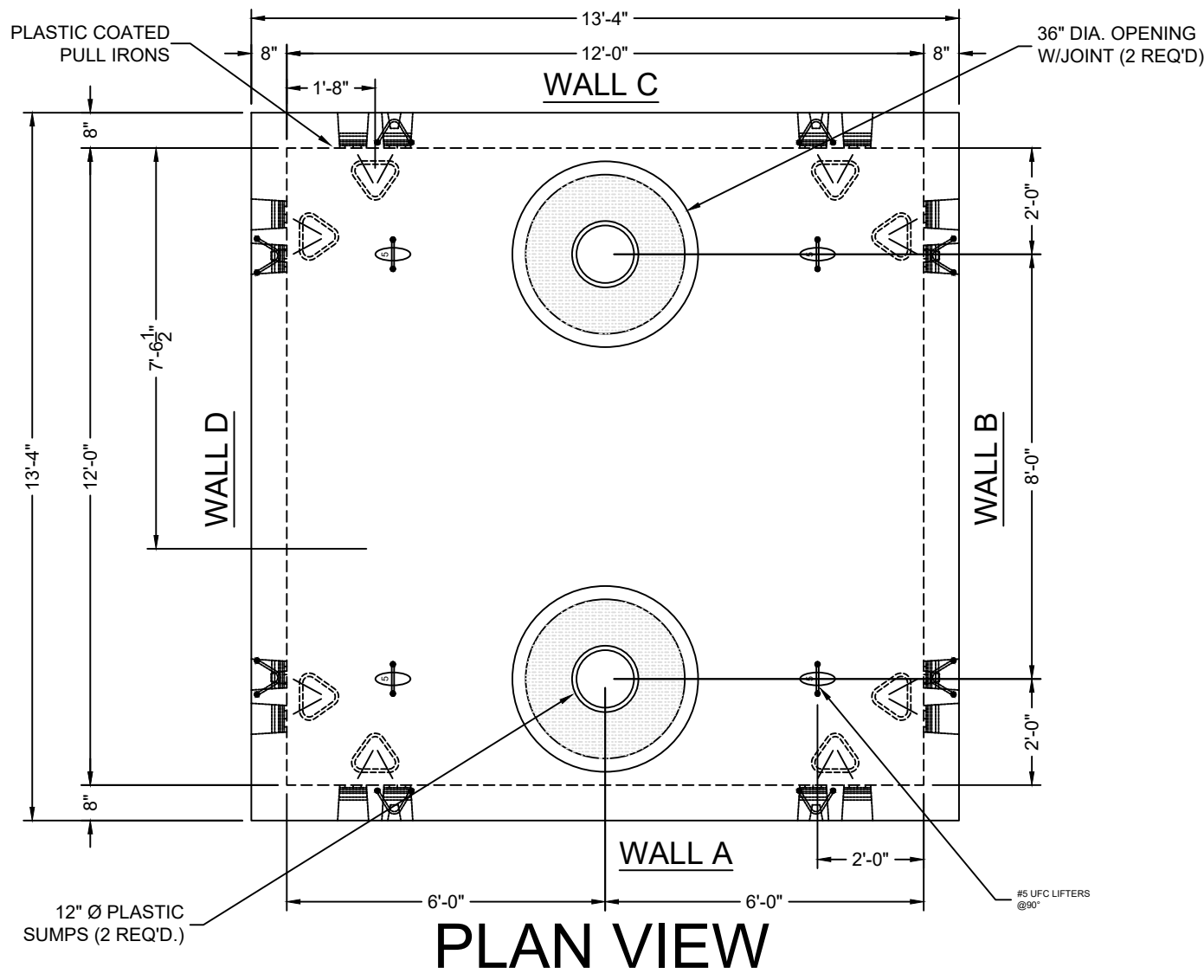


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Inspections:
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8'-0" X 8'-0" X 7'-0" Electric Manhole

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AK	BWN		

UMH12



Notes:

1. Cable shall be racked on the walls of the manhole.
2. Specify Junction Terminal. See Unit UM6-22.
3. Specify quantity and size T- Connector Kit.. See Unit UM40.
4. Specify quantity and size Load Break Elbows. See Unit UM6-1.
5. Specify Unit UM48-3 for grounding.
6. Specify Unit UM6-34 or UVM6-34 for arresters on the back of T-Connectors.

Neck Extensions

Unit	Length (inches)	Material Number
UMH1-6	6	00000420
UMH1-12	12	00000421
UMH1-18	18	00000422
UMH1-24	24	00000423
UMH1-30	30	00000424
UMH1-36	36	00000425



Main: 817.444.3201
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12'-0" X 12'-0" X 7'-0" Electric Manhole Page 1 of 2

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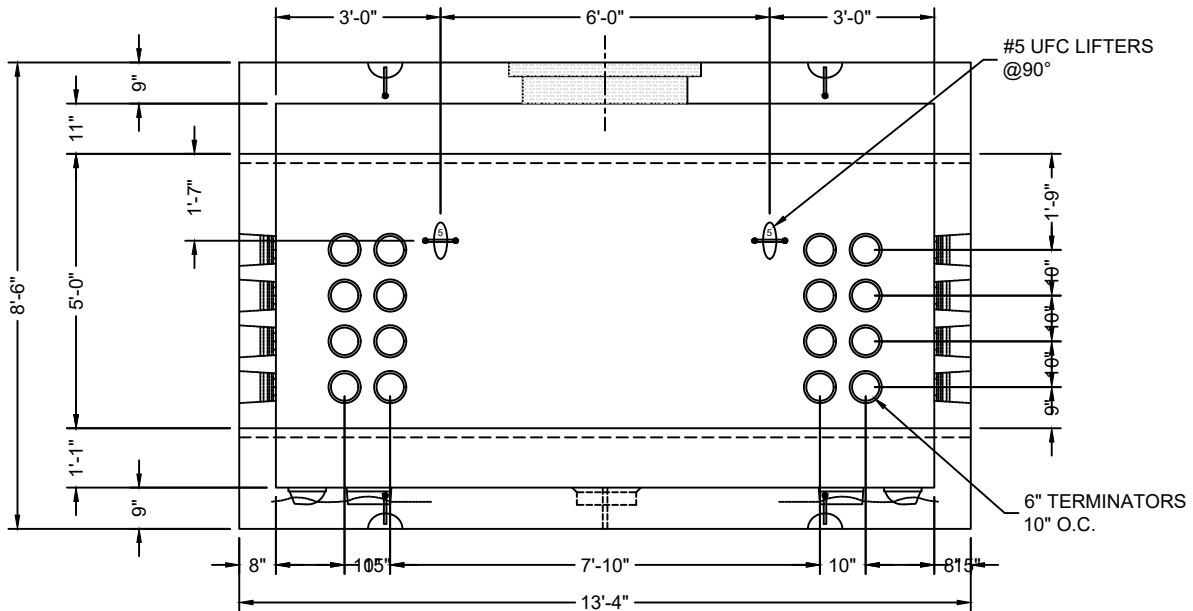
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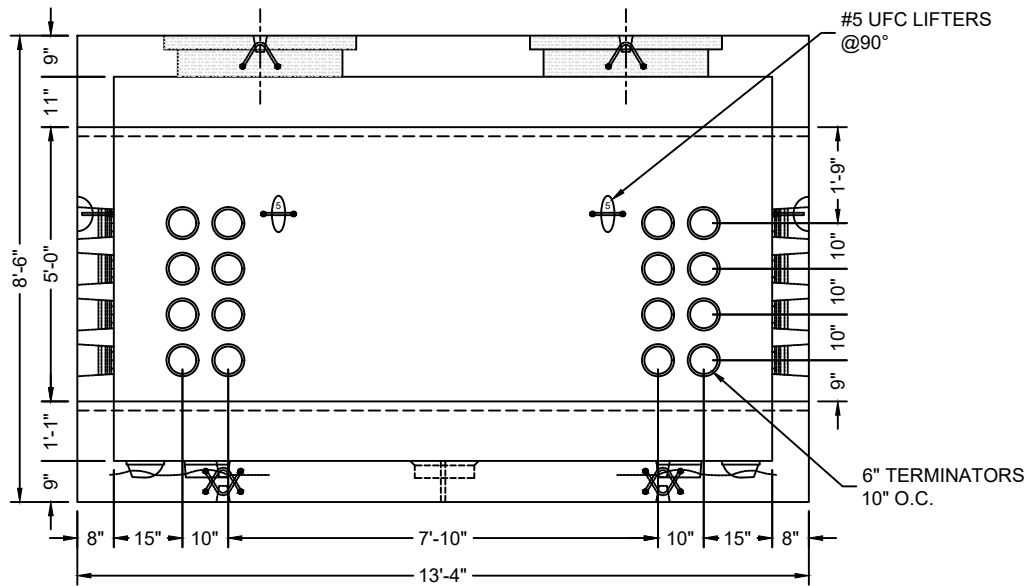
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UMH12



WALLS A&C



WALLS B&D

Item	TCEC Material #	Quantity	Manufacturer	Manuf. Part #	Item Description
UMH12	00000410	1	Oldcastle	1008105/1008125/7108150/710760	Manhole Large 12' x 12' - Concrete



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Inspections:
Call: 817.752.8172
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12'-0" X 12'-0" X 7'-0" Electric Manhole

Page 2 of 2

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