

ALL ABOVE GROUND CONDUIT SHALL BE RIGID METALLIC.

ALL UNDERGROUND CONDUIT SHALL BE RIGID P.V.C. SCHEDULE 40 ELECTRICAL CONDUIT.

NOTES

1. CONDUIT SHALL BE LOCATED ON THE OPPOSITE SIDE OF THE POLE FROM THE CROSSARM OR DOWN GUY.
2. CONDUIT ABOVE GRADE MUST BE CONNECTED TO GROUND.
3. CONDUCTOR LEADS SHALL PROTRUDE FROM WEATHERHEAD A SUFFICIENT LENGTH TO CONNECT TO TRANSFORMER SECONDARY BUSHINGS.

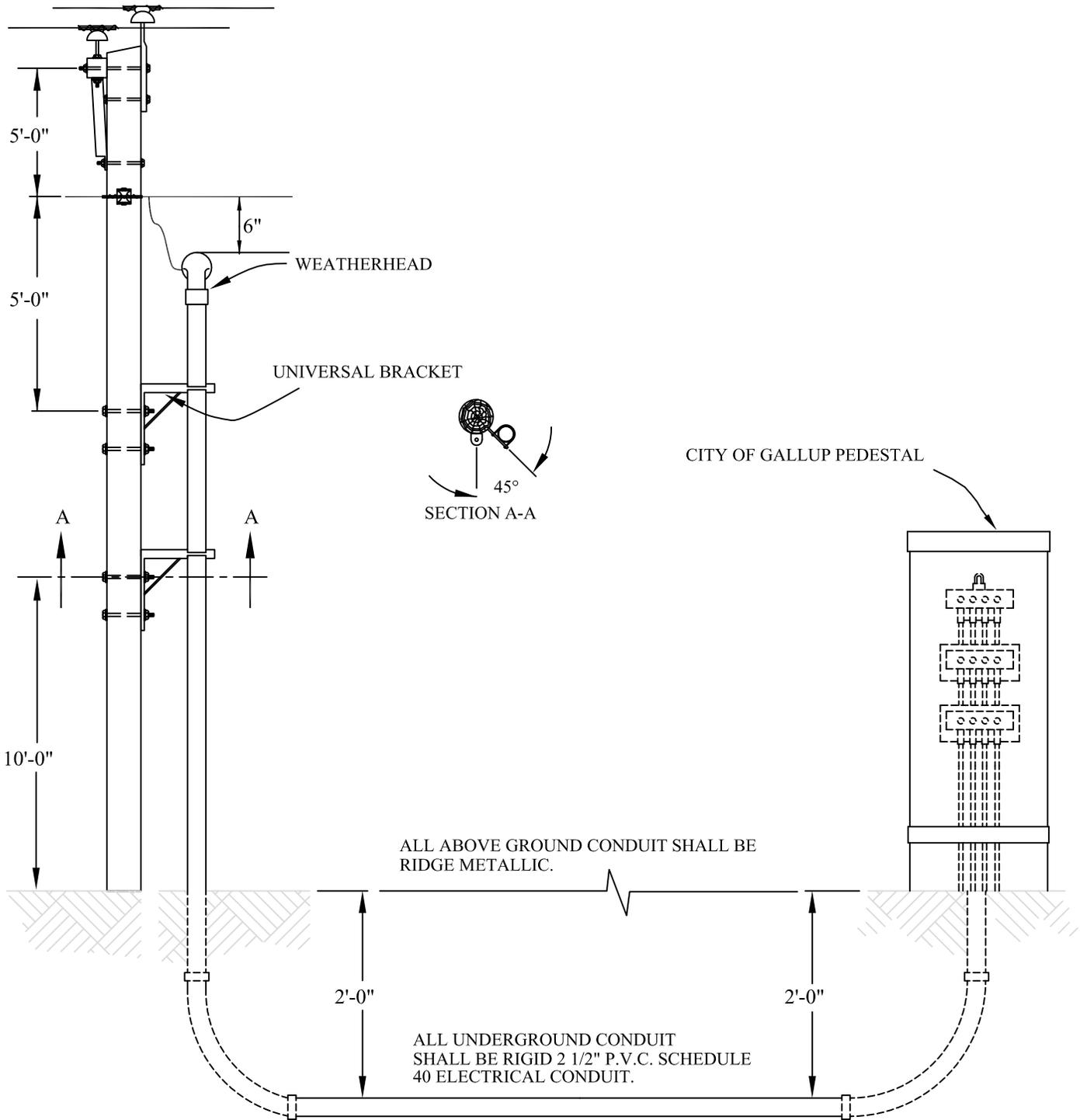


DATE: 09/09/14  
 DRAWN BY: E.J.W.  
 APRV'D BY:  
 APRV'D BY:  
 SCALE: N.T.S.

TITLE:  
**SECONDARY RISER  
 UNDERGROUND SERVICE**

| REVISIONS |       |
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| BY:       | DATE: |
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STANDARD No.  
  
 PAGE:  
 1 OF 21



ALL ABOVE GROUND CONDUIT SHALL BE RIDGE METALLIC.

ALL UNDERGROUND CONDUIT SHALL BE RIGID 2 1/2" P.V.C. SCHEDULE 40 ELECTRICAL CONDUIT.

NOTES

1. CONDUIT SHALL BE LOCATED ON THE OPPOSITE SIDE OF THE POLE FROM THE CROSSARM OR DOWN GUY.
2. CONDUIT ABOVE GRADE MUST BE CONNECTED TO GROUND.
3. CONDUCTOR LEADS SHALL PROTRUDE FROM WEATHERHEAD A SUFFICIENT LENGTH TO CONNECT TO TRANSFORMER SECONDARY BUSHINGS.
4. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, CONDUIT, AND CONDUCTOR FOR THE SECONDARY INSTALLATION.

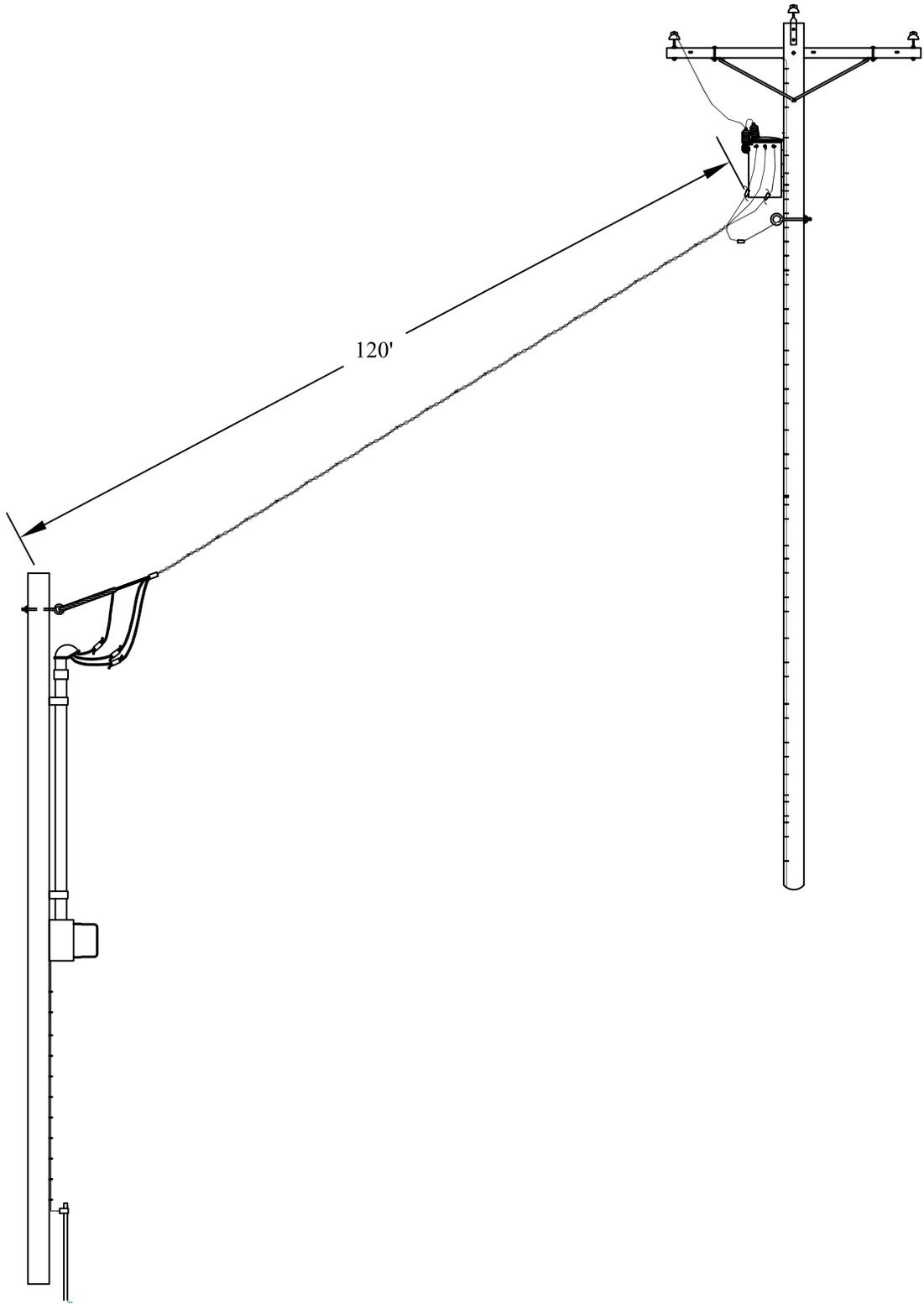


DATE: 09/09/14  
 DRAWN BY: E.J.W.  
 APRV'D BY:  
 APRV'D BY:  
 SCALE: N.T.S.

TITLE:  
**SECONDARY RISER  
 UNDERGROUND PEDESTAL**

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STANDARD No.  
  
 PAGE:  
 2 OF 21

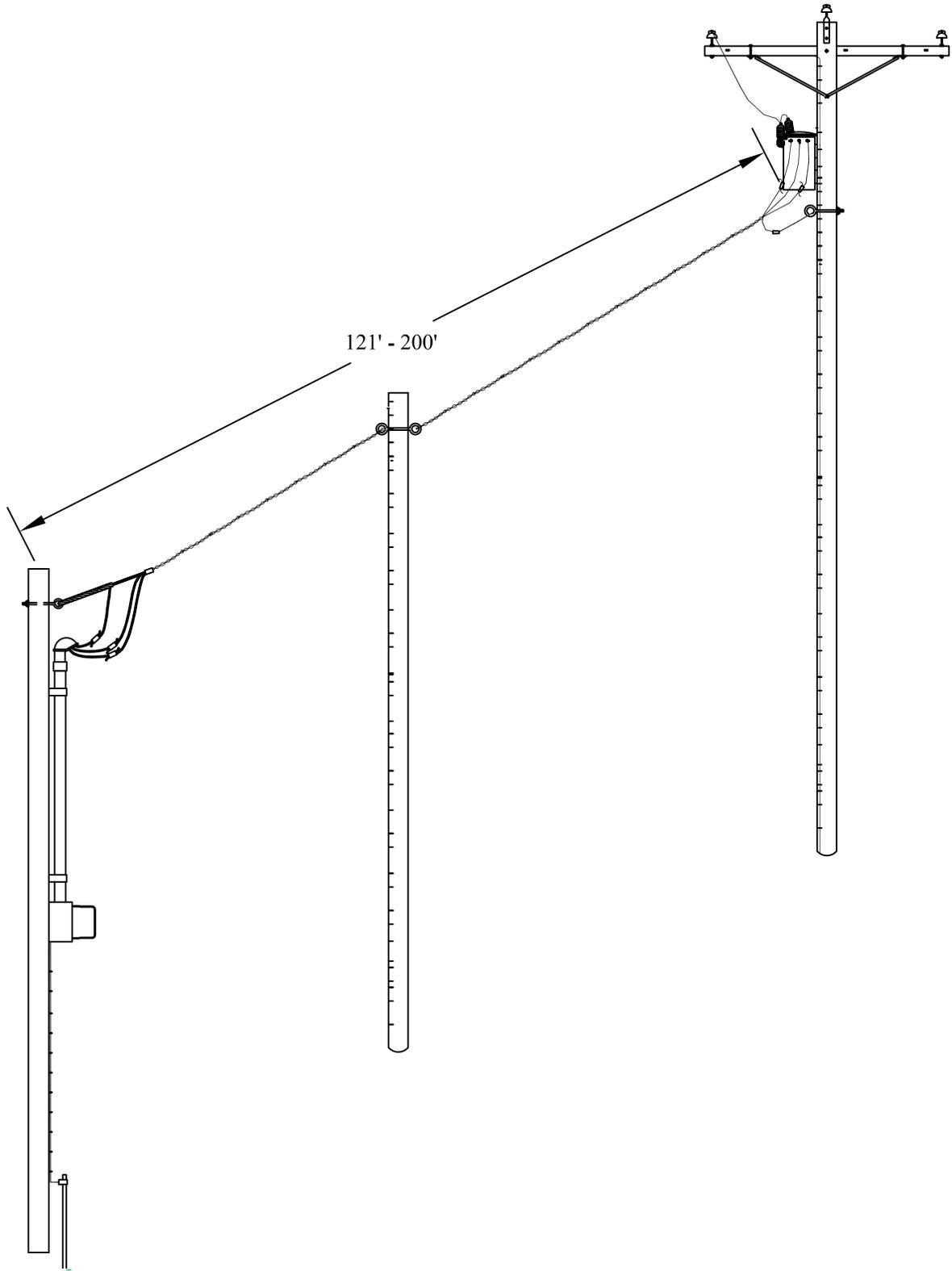


DATE: 09/09/14  
 DRAWN BY: E.J.W.  
 APRV'D BY:  
 APRV'D BY:  
 SCALE: N.T.S.

TITLE:  
**NO. 2 TRIPLEX  
 STANDARD INSTALL  
 100 Amp**

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STANDARD No.  
 PAGE:  
 3 OF 21



121' - 200'

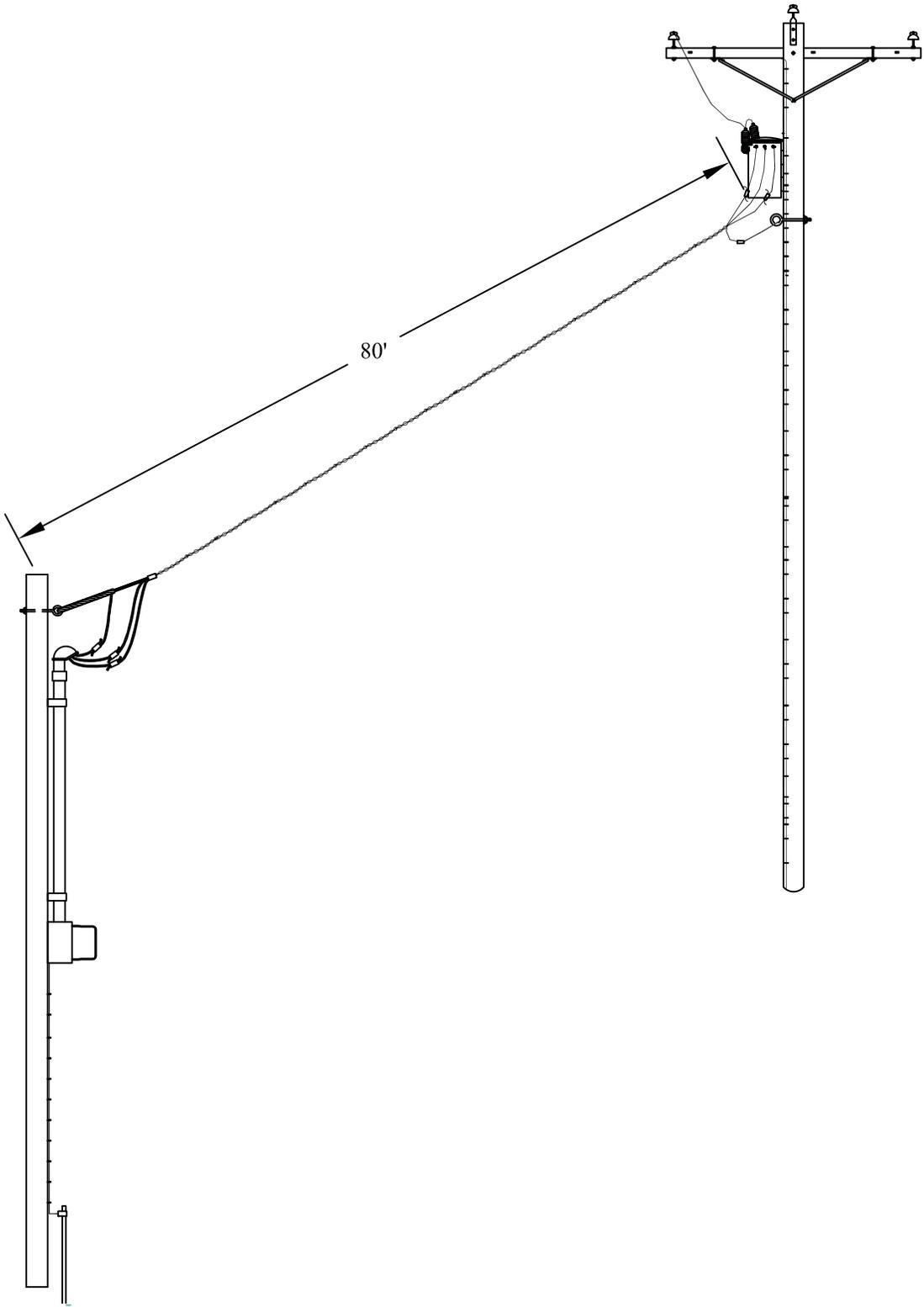


DATE: 09/09/14  
 DRAWN BY: E.J.W.  
 APRV'D BY:  
 APRV'D BY:  
 SCALE: N.T.S.

TITLE:  
**NO. 2 TRIPLEX  
 LIFT POLE NEEDED  
 100 Amp**

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STANDARD No.  
  
 PAGE:  
 4 OF 21

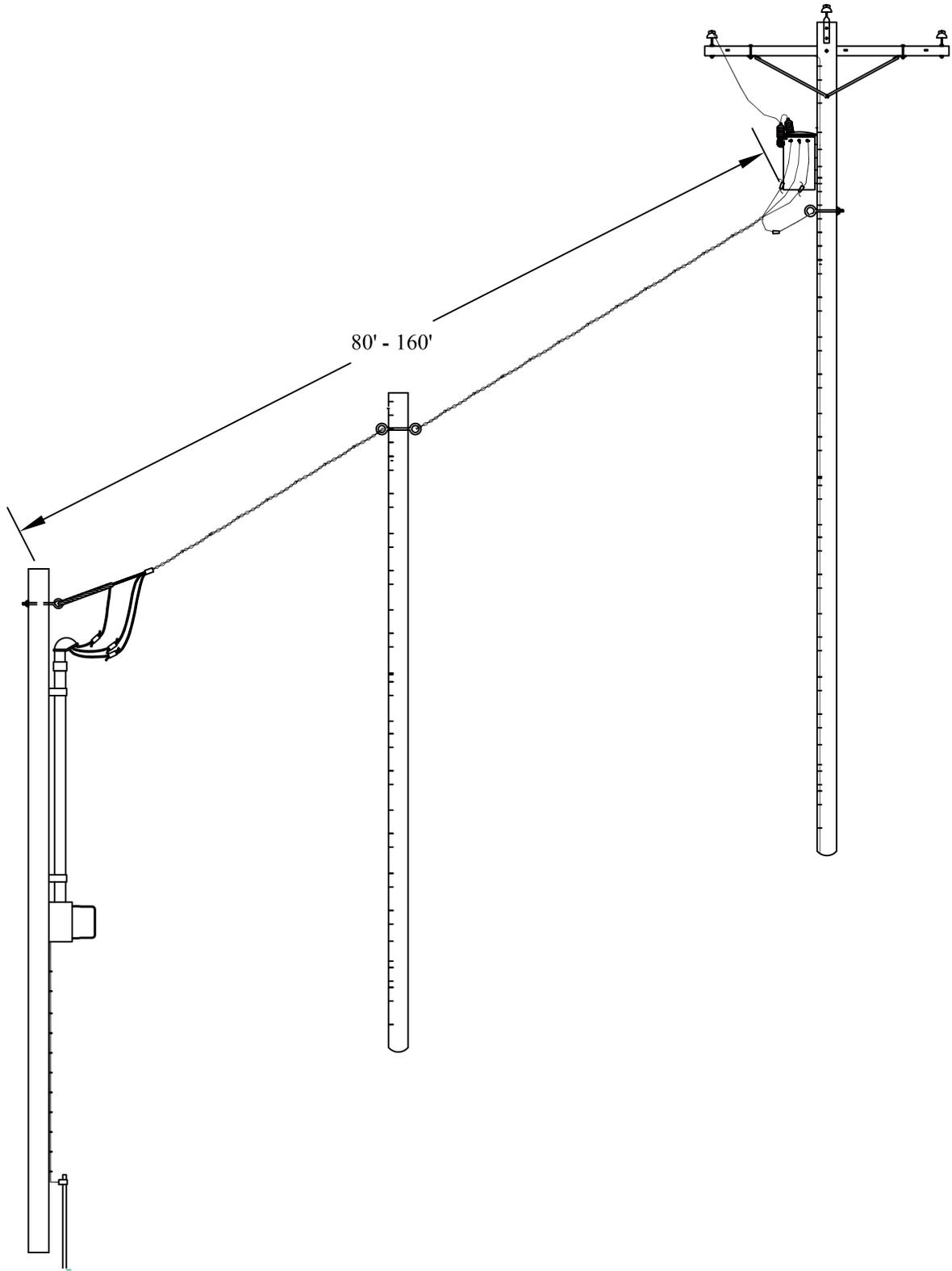


DATE: 09/09/14  
 DRAWN BY: E.J.W.  
 APRV'D BY:  
 APRV'D BY:  
 SCALE: N.T.S.

TITLE:  
**NO. 2/0 TRIPLEX  
 STANDARD SERVICE  
 200 Amp**

| REVISIONS |       |
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STANDARD No.  
 PAGE:  
 5 OF 21



DATE: 09/09/14  
 DRAWN BY: E.J.W.  
 APRV'D BY:  
 APRV'D BY:  
 SCALE: N.T.S.

TITLE:  
**NO. 2/0 TRIPLEX  
 LIFT POLE NEEDED  
 200 Amp**

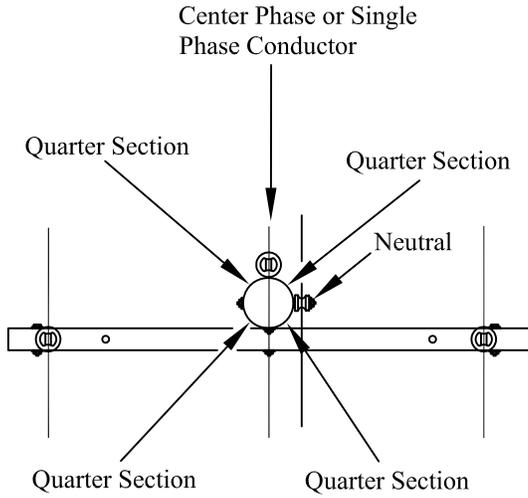
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STANDARD No.  
  
 PAGE:  
 6 OF 21

Riser Conduit Sizes

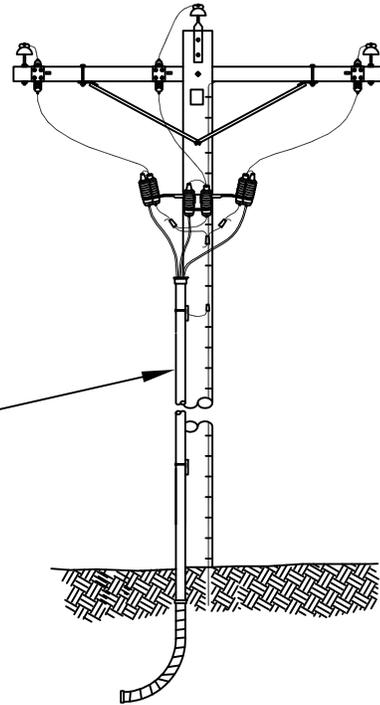
Three Phase Installation - Using No. 2 Aluminum 15 KV URD Conductor - 4" Conduit

Three Phase Installation - Using No. 4/0 Aluminum 15 KV URD Conductor - 5" to 6" Conduit



The riser shall be installed on a Quarter Section of the pole that would minimize the risers exposure to roadway traffic.

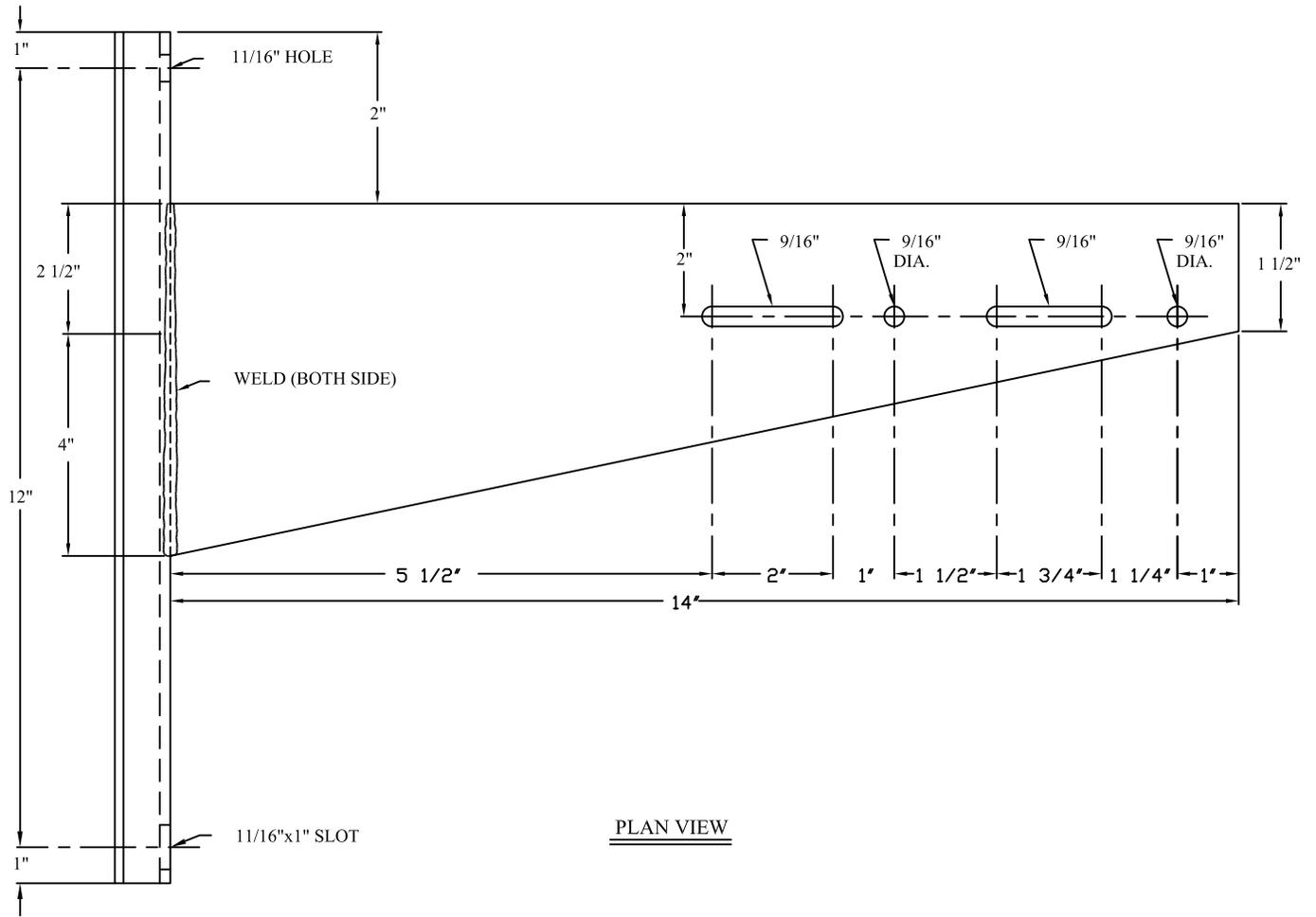
The riser shall be installed such that it will not interfere with any existing pole attachments (i.e. communications and system neutral)



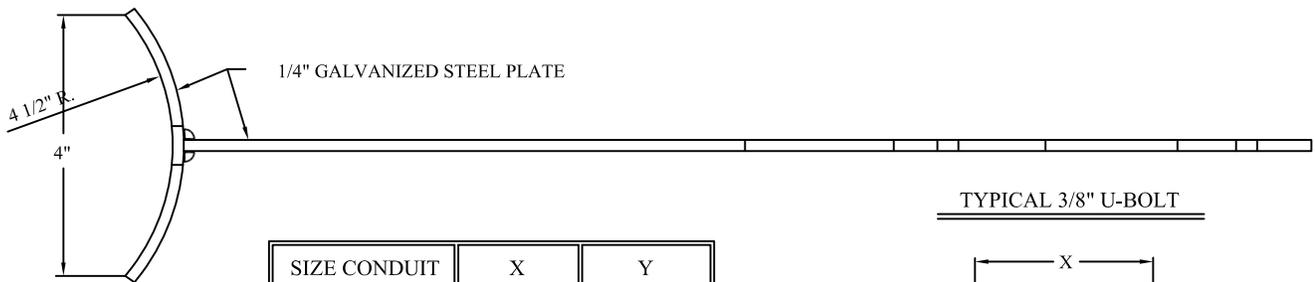
Notes

1. Contractor to furnish all Galvanized Rigid Conduit (G.R.C.) and hardware for the complete riser installation.
2. Contractor shall complete the first 10 ft of the riser which includes the universal support bracket.
3. Contractor to contact GJU for location of riser prior to trenching.
4. All elbows are to be Galvanized Rigid Conduit (GRC) sweeps and wrapped with corrosion tape.

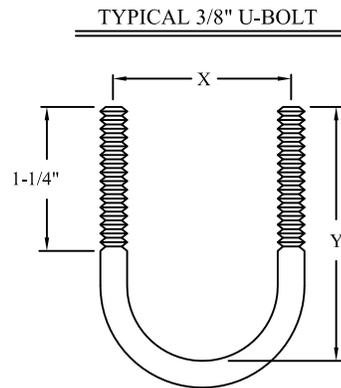
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|  | DATE: 09/09/14   | TITLE:<br><b>PRIMARY RISER<br/>                 INSTALLATION</b> | REVISIONS |       | STANDARD No.     |
|  | DRAWN BY: E.J.W. |  | BY:       | DATE: |                  |
|  | APRVD BY:        |  |           |       | PAGE:<br>7 OF 21 |
|  | APRVD BY:        |  |           |       |                  |
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PLAN VIEW



| SIZE CONDUIT | X       | Y        |
|--------------|---------|----------|
| 4"           | 5"      | 5 3/4"   |
| 5"           | 6 1/16" | 6 13/16" |



NOTES

- BRACKET TO BE FASTENED TO POLE WITH ONE 5/8" GALVANIZED A MACHINE BOLT AND ONE 1/2" X 4" LAG SCREW
- BRACKET SUITABLE FOR 2", 4", OR ONE 5" CONDUIT.



DATE: 09/09/14  
 DRAWN BY: E.J.W.  
 APRV'D BY:  
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 SCALE: N.T.S.

TITLE:  
**UNIVERSAL SUPPORT BRACKET**  
**2" - 5" CONDUIT**

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| E.J.W.    | 02/15/2011 |
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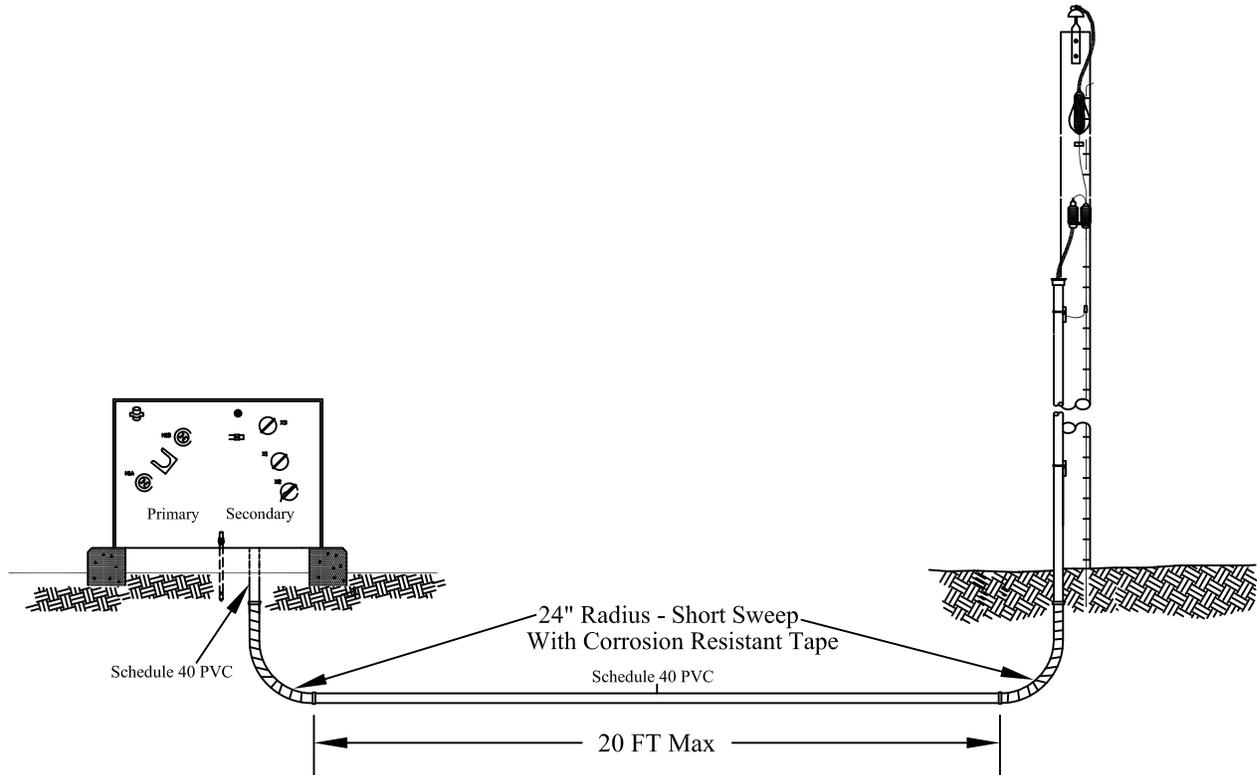
STANDARD No.

PAGE:

8 OF 21

High Voltage Underground Installation Up To 20'

Single Phase Installation - 2" Conduit



Notes

1. Contractor to furnish and install Schedule 40 PVC underground conduit.
2. Contractor to contact GJU for location of riser prior to trenching.
3. All elbows are to be Galvanized Rigid Conduit (GRC) sweeps and wrapped with corrosion tape.
4. Contractor is to install a 5/16" polypropylene pull rope in primary conduits.
5. Primary conduit is to be clean and free of obstructions. Contractor will pull a mandrel (mouse) through the conduit upon request by GJU.
6. Front (door) side of the transformer must face street or parking lot.
7. Contractor provides trench, backfill, concrete transformer pad, guard post within traffic area, metering conduit and secondary conductors.



DATE: 09/09/14  
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 APRV'D BY:  
 APRV'D BY:  
 SCALE: N.T.S.

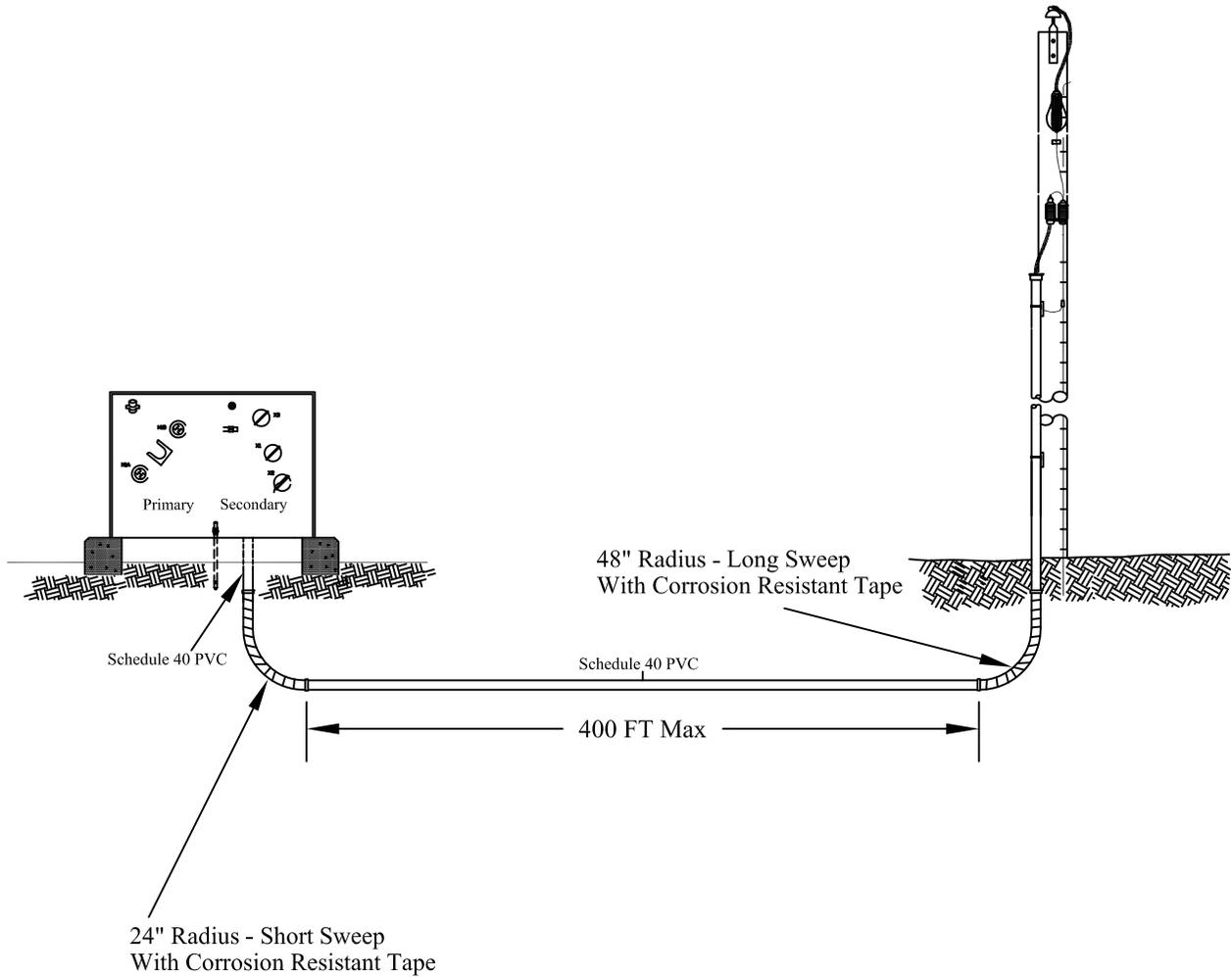
TITLE:  
**PRIMARY CONDUIT  
 INSTALLATION UP TO 20'  
 SINGLE PHASE**

| REVISIONS |       |
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STANDARD No.  
  
 PAGE:  
 9 OF 21

High Voltage Underground Installation Up To 400'

Single Phase Installation - 2" Conduit



Notes

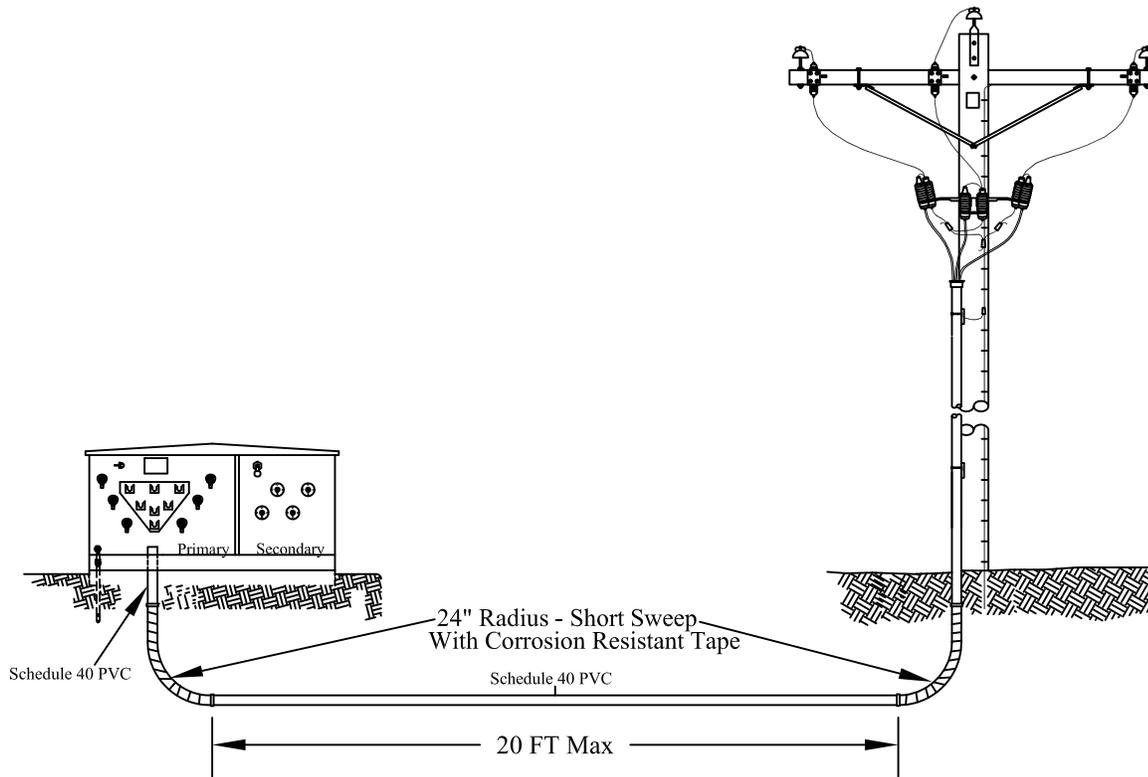
1. Contractor to furnish and install Schedule 40 PVC underground conduit.
2. Contractor to contact GJU for location of riser prior to trenching.
3. All elbows are to be Galvanized Rigid Conduit (GRC) sweeps and wrapped with corrosion tape.
4. Contractor is to install a 5/16" polypropylene pull rope in primary conduits.
5. Primary conduit is to be clean and free of obstructions. Contractor will pull a mandrel (mouse) through the conduit upon request by GJU.
6. Front (door) side of the transformer must face street or parking lot.
7. Contractor provides trench, backfill, concrete transformer pad, guard post within traffic area, metering conduit and secondary conductors.

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|  | DATE: 09/09/14   | TITLE:<br><b>PRIMARY CONDUIT<br/>                 INSTALLATION UP TO 400'<br/>                 SINGLE PHASE</b> | REVISIONS |       | STANDARD No.      |
|  | DRAWN BY: E.J.W. |   | BY:       | DATE: |                   |
|  | APRV'D BY:       |   |           |       | PAGE:<br>10 OF 21 |
|  | SCALE: N.T.S.    |   |           |       |                   |

High Voltage Underground Installation Up To 20'

Three Phase Installation - Using No. 2 Aluminum 15 KV URD Conductor - 4" Conduit

Three Phase Installation - Using No. 4/0 Aluminum 15 KV URD Conductor - 5" to 6" Conduit



Notes

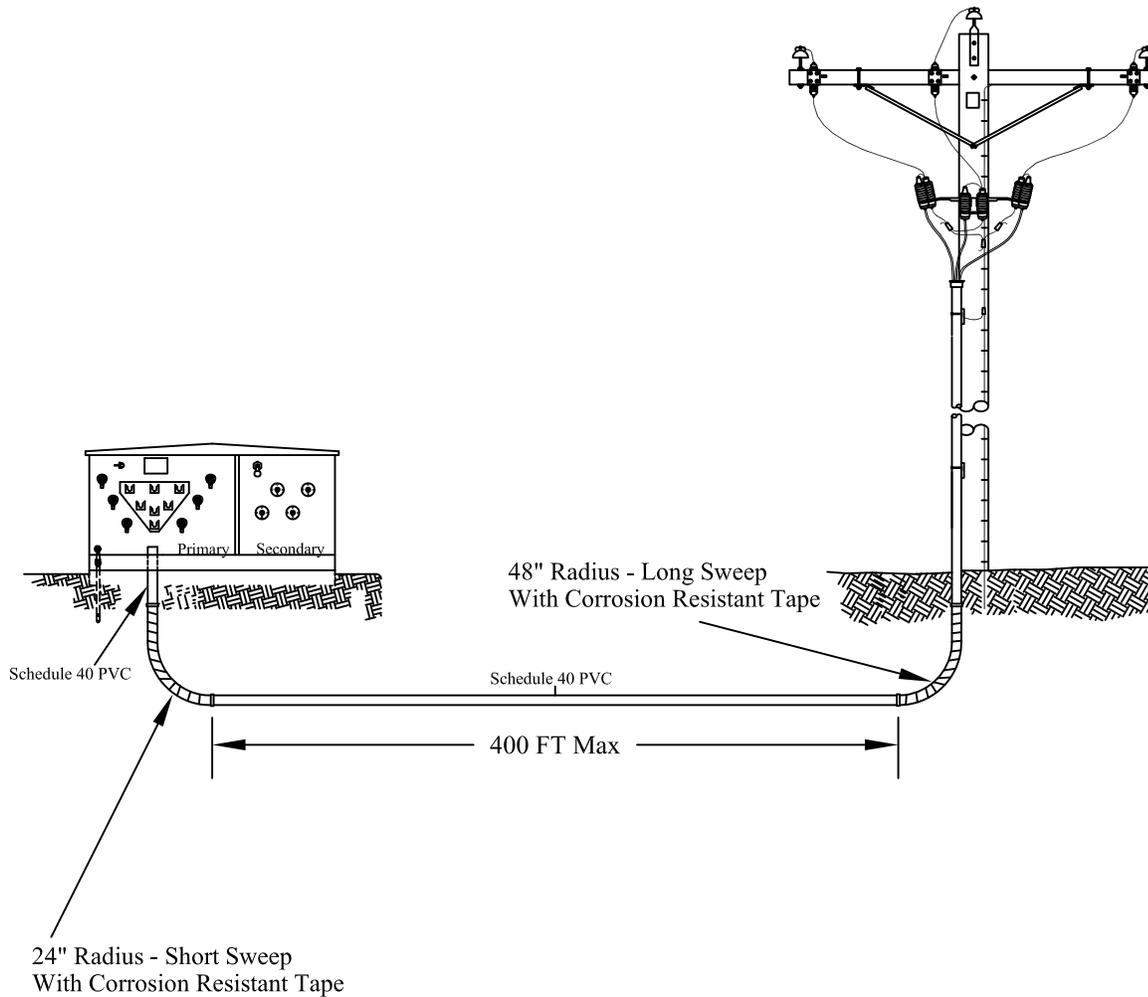
1. Contractor to furnish and install Schedule 40 PVC underground conduit.
2. Contractor to contact GJU for location of riser prior to trenching.
3. All elbows are to be Galvanized Rigid Conduit (GRC) sweeps and wrapped with corrosion tape.
4. Contractor is to install a 5/16" polypropylene pull rope in primary conduits.
5. Primary conduit is to be clean and free of obstructions. Contractor will pull a mandrel (mouse) through the conduit upon request by GJU.
6. Front (door) side of the transformer must face street or parking lot.
7. Contractor provides trench, backfill, concrete transformer pad, guard post within traffic area, metering conduit and secondary conductors.

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|  | DATE: 09/09/14   | TITLE:<br><b>PRIMARY CONDUIT<br/>                 INSTALLATION UP TO 20'<br/>                 THREE PHASE</b> | REVISIONS |       | STANDARD No.      |
|  | DRAWN BY: E.J.W. |   | BY:       | DATE: |                   |
|  | APRV'D BY:       |   |           |       | PAGE:<br>11 OF 21 |
|  | SCALE: N.T.S.    |   |           |       |                   |

High Voltage Underground Installation Up To 400'

Three Phase Installation - Using No. 2 Aluminum 15 KV URD Conductor - 4" Conduit

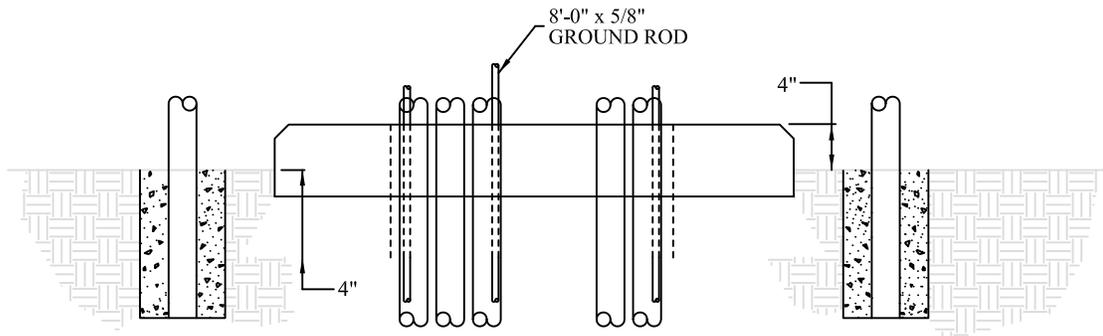
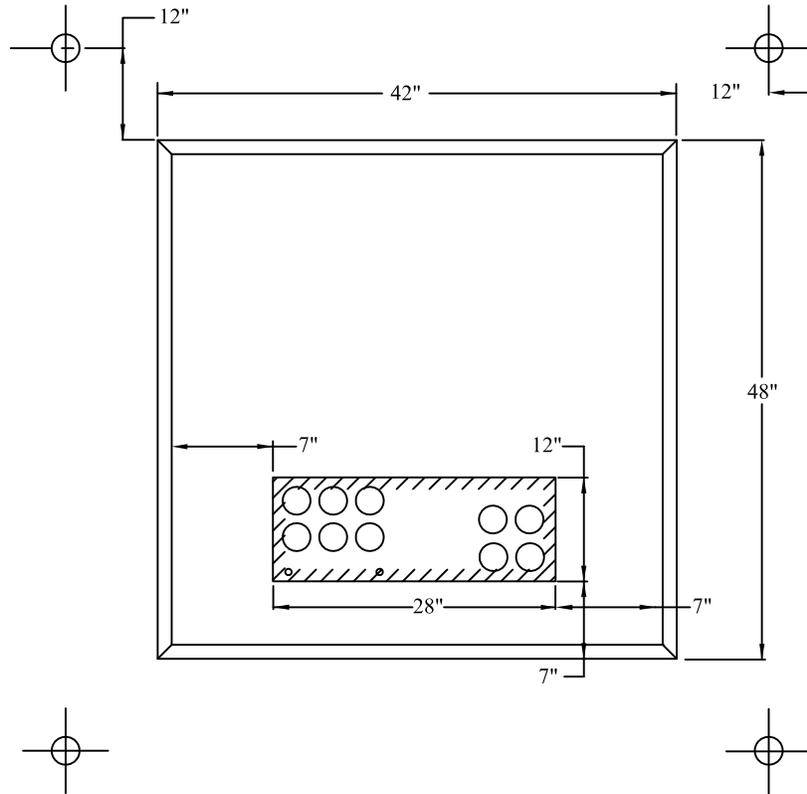
Three Phase Installation - Using No. 4/0 Aluminum 15 KV URD Conductor - 5" to 6" Conduit



Notes

1. Contractor to furnish and install Schedule 40 PVC underground conduit.
2. Contractor to contact GJU for location of riser prior to trenching.
3. All elbows are to be Galvanized Rigid Conduit (GRC) sweeps and wrapped with corrosion tape.
4. Contractor is to install a 5/16" polypropylene pull rope in primary conduits.
5. Primary conduit is to be clean and free of obstructions. Contractor will pull a mandrel (mouse) through the conduit upon request by GJU.
6. Front (door) side of the transformer must face street or parking lot.
7. Contractor provides trench, backfill, concrete transformer pad, guard post within traffic area, metering conduit and secondary conductors.

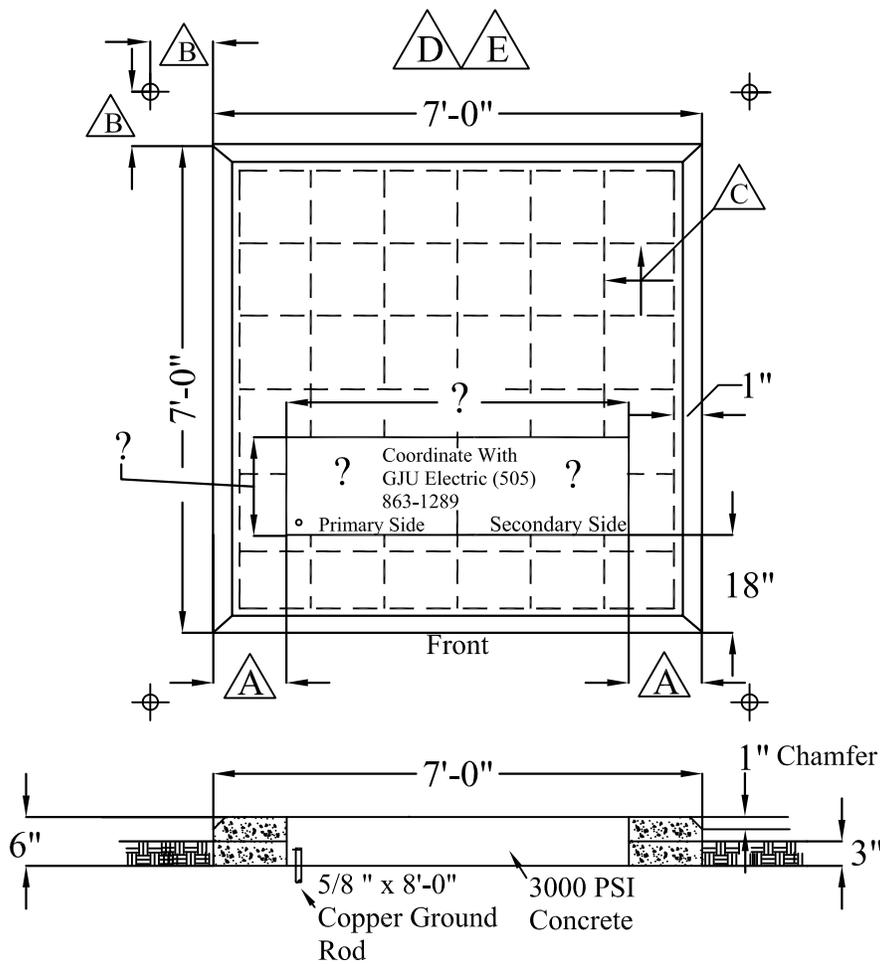
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|  | DATE: 09/09/14   | TITLE:<br><b>PRIMARY CONDUIT<br/>                 INSTALLATION UP TO 400'<br/>                 THREE PHASE</b> | REVISIONS |                   | STANDARD No. |
|  | DRAWN BY: E.J.W. |  | BY:       | DATE:             |              |
|  | APRV'D BY:       |  |           |                   |              |
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|  | SCALE: N.T.S.    |  |           |                   |              |
|  |                  |  |           | PAGE:<br>12 OF 21 |              |



NOTES

1. THIS PAD IS DESIGNED TO ACCOMMODATE TRANSFORMERS 167 KVA AND SMALLER IF LARGER TRANSFORMERS ARE USED PAD DIMENSIONS SHOULD BE MODIFIED TO FIT THE SPECIFIC TRANSFORMER.
2. TRANSFORMER SHALL BE PROTECTED BY GUARD POST IF PLACED IN TRAFFIC AREA. GUARD POST SHALL CONSIST OF METAL PIPE (MIN. 3" DIA. AND 5' LONG) FILLED WITH CONCRETE AND SET IN 1'-0" DIA. AND 2"-0" DEEP.
3. MINIMUM CLEARANCE 2'-0" AROUND SIDES/BACK AND 20'-0" IN FRONT OF DOOR FOR VENTILATION AND ACCESS.
4. MINIMUM HORIZONTAL CLEARANCE BETWEEN TRANSFORMER AND ADJACENT WALLS LEFT OR RIGHT AND REAR SIDES SHALL BE 24" OR 1/10 INCH PER TOTAL KVA. FRONT SIDE SHALL BE READILY ACCESSIBLE.
5. PAD LOCATION TO PROVIDE 24 HOUR EASY ACCESS.

|  |                  |  |           |       |                   |
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|  | DATE: 09/09/14   | TITLE:<br><b>SINGLE PHASE<br/>         TRANSFORMER PAD</b> | REVISIONS |       | STANDARD No.      |
|  | DRAWN BY: E.J.W. |  | BY:       | DATE: |                   |
|  | APRVD BY:        |  |           |       | PAGE:<br>13 OF 21 |
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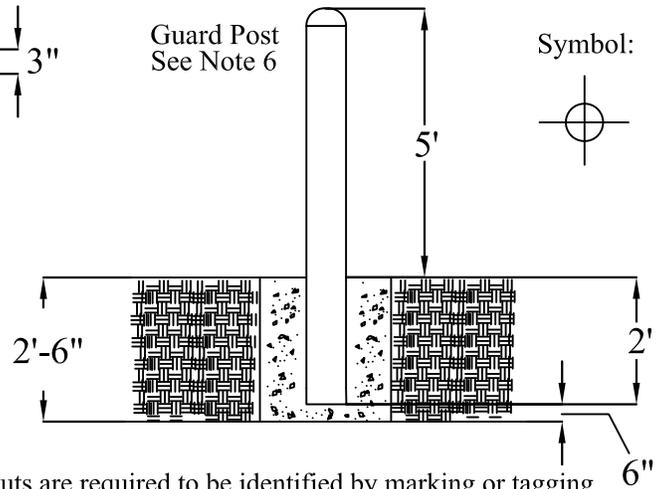


Construction Notes:

- A** Center cutout so that dimension A are equal.
- B** The distances of the guard pole will be 1' from the corner of the transformer pad to the center of the guard pole.
- C** Contractor will use 1/2" Reinforced Steel. The reinforced steel will be placed 12" O.C. both ways.
- D** Contact GJU for compaction inspection prior to placing the concrete.
- E** Contractor is encouraged to use air entrainment concrete.

Guard Post  
See Note 6

Symbol:



Notes:

- 1) 4 inch conduit or greater is required for three phase primary cable.
- 2) Size of conduit for secondary cable will be Contractor's decision. Stub-outs are required to be identified by marking or tagging the conduit inside the transformer.
- 3) Conduit should be trimmed flush by the Contractor. Contractor is required to use GRC recommended Sweep 90° elbows. Stub-outs are required to be extended 5 feet from the transformer pad.
- 4) Transformer pad will not be placed if the surrounding area is not at final grade. The area in which the transformer pad is to be placed on should be compacted at 95 % standard proctor density or higher.
- 5) There should be a minimum clearance of 3 feet on the sides/back and 20 feet in front of the doors of the transformer for ventilation and access.
- 6) The transformer shall be protected by guard posts if placed in a traffic area. Guard posts will consist of metal pipe of at least 3 inches in diameter and 7 feet in length, with two feet below grade. The metal post will be painted red and filled with concrete.
- 7) The front side of transformer will be readily accessible.
- 8) Pad location will provide 24 hour unimpeded access.

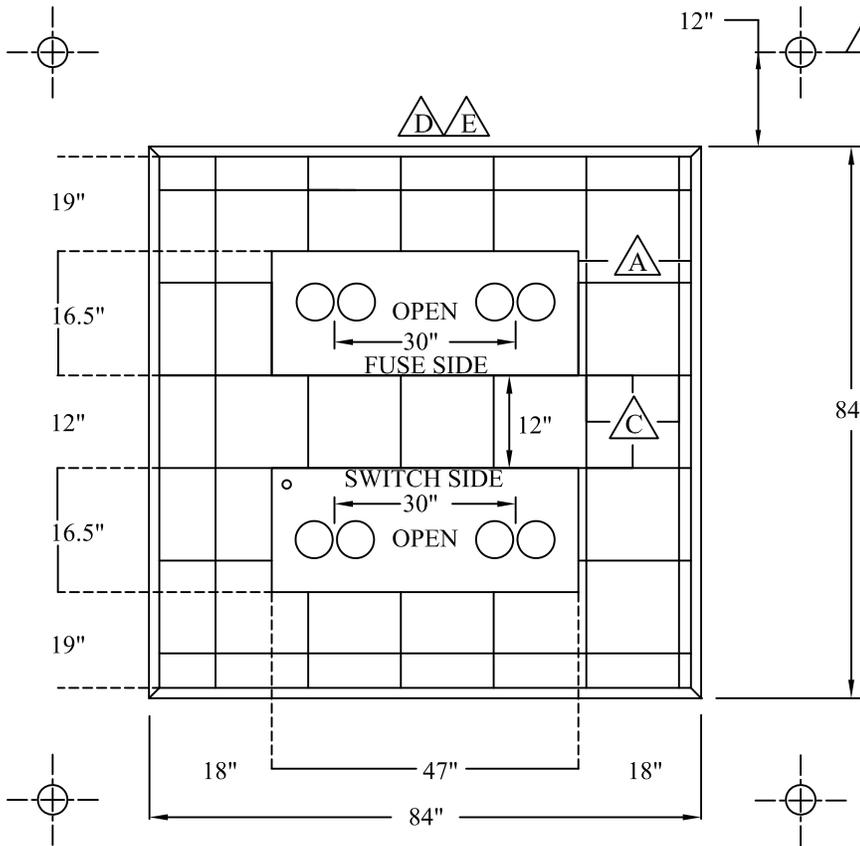


DATE: 09/09/14  
 DRAWN BY: E.J.W.  
 Checked By:  
 Approved BY:  
 SCALE: N.T.S.

TITLE:  
**THREE PHASE  
 TRANSFORMER PAD**

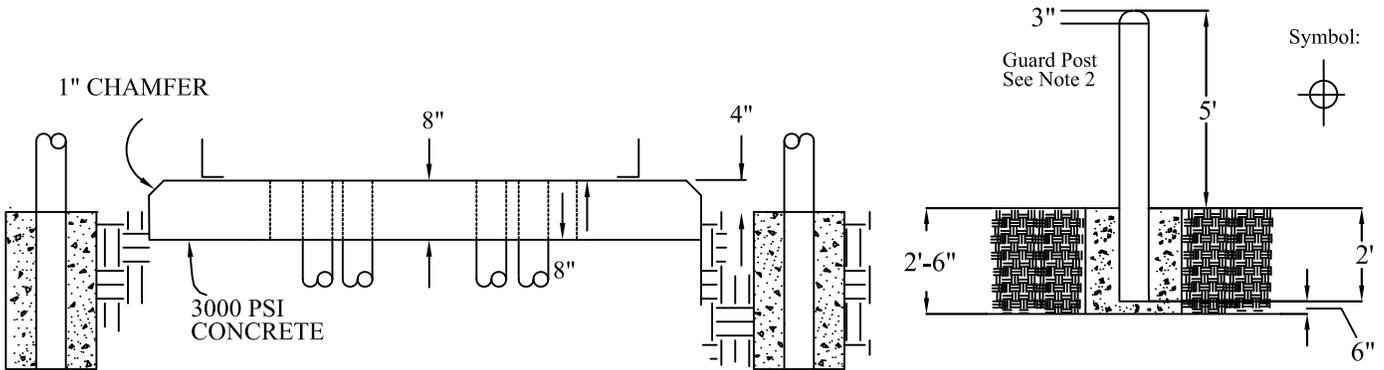
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| BY:       | DATE:     |
| E.J.W.    | 8/15/2008 |
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STANDARD No.  
 PAGE:  
 14 OF 21



**Construction Notes:**

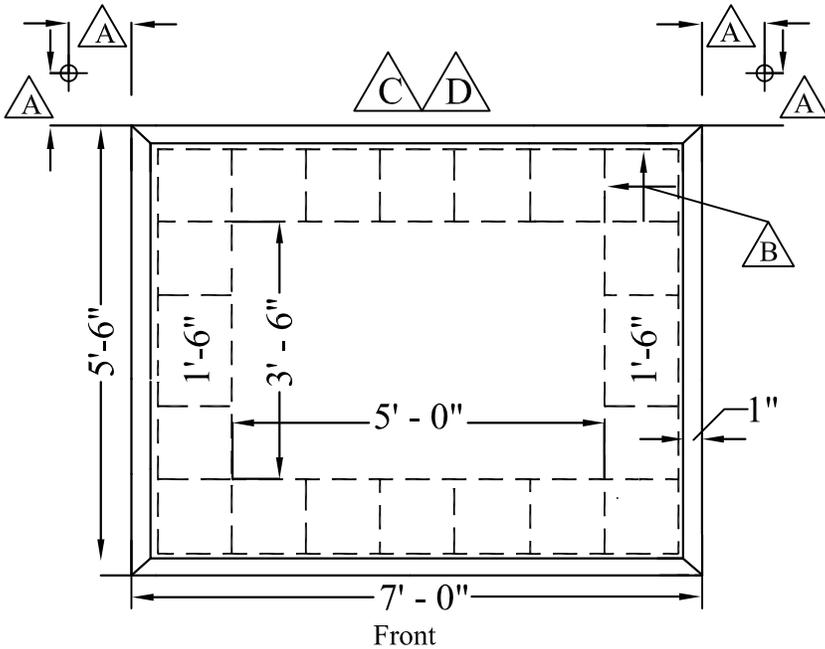
- A** Center cutout so that dimension A are equal.
- B** The distances of the guard pole will be 1' from the corner of the transformer pad to the center of the guard pole.
- C** Contractor will use 1/2" Reinforced Steel. The reinforced steel will be placed 12" O.C. both ways.
- D** Contact GJU for compaction inspection prior to placing the concrete.
- E** Contractor is encouraged to use air entrainment concrete.



**NOTES**

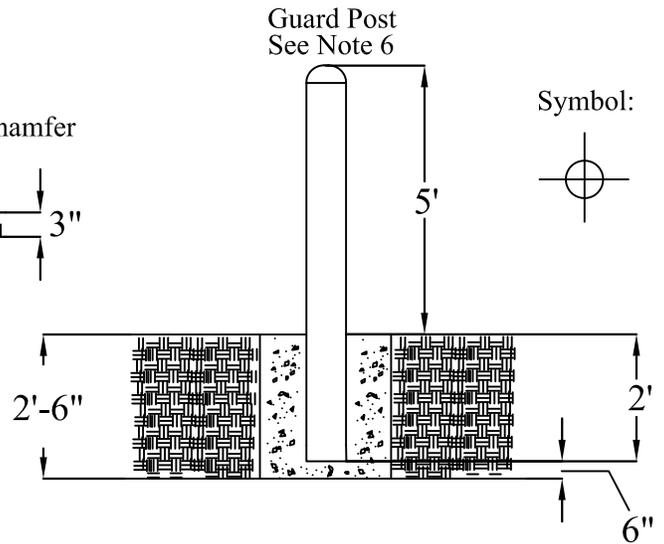
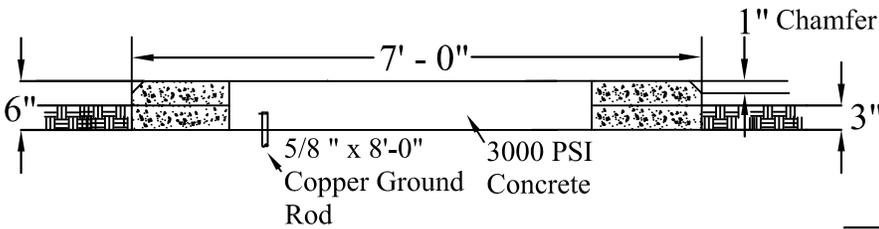
1. SWITCHGEAR SHALL BE PROTECTED BY GUARD POST IF PLACED IN TRAFFIC AREA. GUARD POSTS SHALL CONSIST OF CONCRETE FILLED METAL PIPE (MIN. 3" DIA. AND 7' LONG) AND SET IN CONCRETE (MIN. 1' DIA. AND 2' DEEP)
2. BRING CONDUITS UP FLUSH WITH PAD. USE RGS ELBOWS & BUSHINGS.
3. PROVIDE SPARE CONDUIT STUBS.
4. MUST BE COMPLETELY ACCESSIBLE FOR OPERATION & MAINTENANCE.
5. GROUND RODS MUST BE INSTALLED AS PER SWITCHGEAR SPECIFICATIONS.

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|  | DATE: 09/09/14   | TITLE:<br><b>SWITCHGEAR PAD<br/>(200 AMPERES)</b> | REVISIONS |       | STANDARD No.      |
|  | DRAWN BY: E.J.W. |   | BY:       | DATE: |                   |
|  | APRVD BY:        |   |           |       | PAGE:<br>15 OF 21 |
|  | APRVD BY:        |   |           |       |                   |
|  | SCALE: N.T.S.    |   |           |       |                   |



Construction Notes:

- A** The distances of the guard pole will be 1' from the corner of the transclosure pad to the center of the guard pole.
- B** Contractor will use 1/2" Reinforced Steel. The reinforced steel will be placed 12" O.C. both ways.
- C** Contact GJU for compaction inspection prior to placing the concrete.
- D** Contractor is encouraged to use air entrainment concrete.



Notes:

- 1) 4 inch conduit or greater is required for three phase primary cable.
- 2) Transclosure pad will not be placed if the surrounding area is not at final grade. The area in which the transclosure pad is to be placed on should be compacted at 95% standard proctor density or higher.
- 3) There should be a minimum clearance of 3 feet on the sides/back and 20 feet in front of the door.
- 4) The transclosure shall be protected by guard posts if placed in a traffic area. Guard posts will consist of metal pipe of at least 3 inches in diameter and 7 feet in length, with two feet below grade. The metal post will be painted red and filled with concrete.
- 5) The front side of transclosure will be readily accessible.
- 6) Pad location will provide 24 hour unimpeded access.

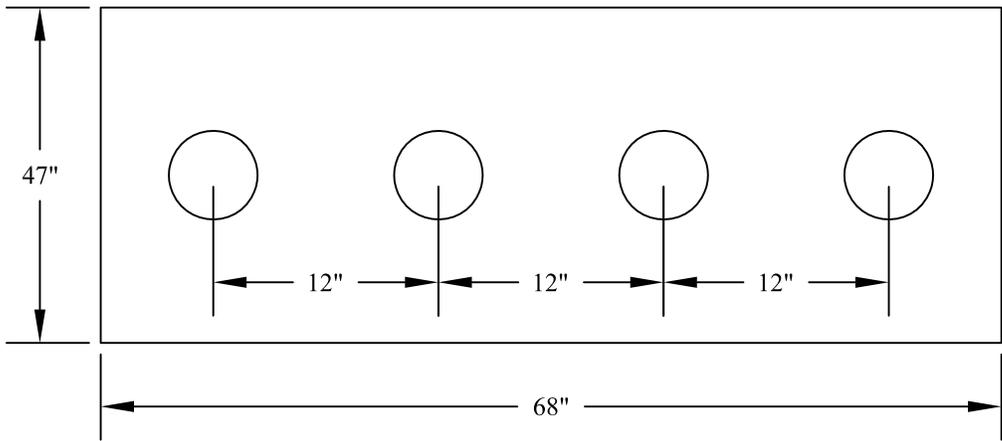
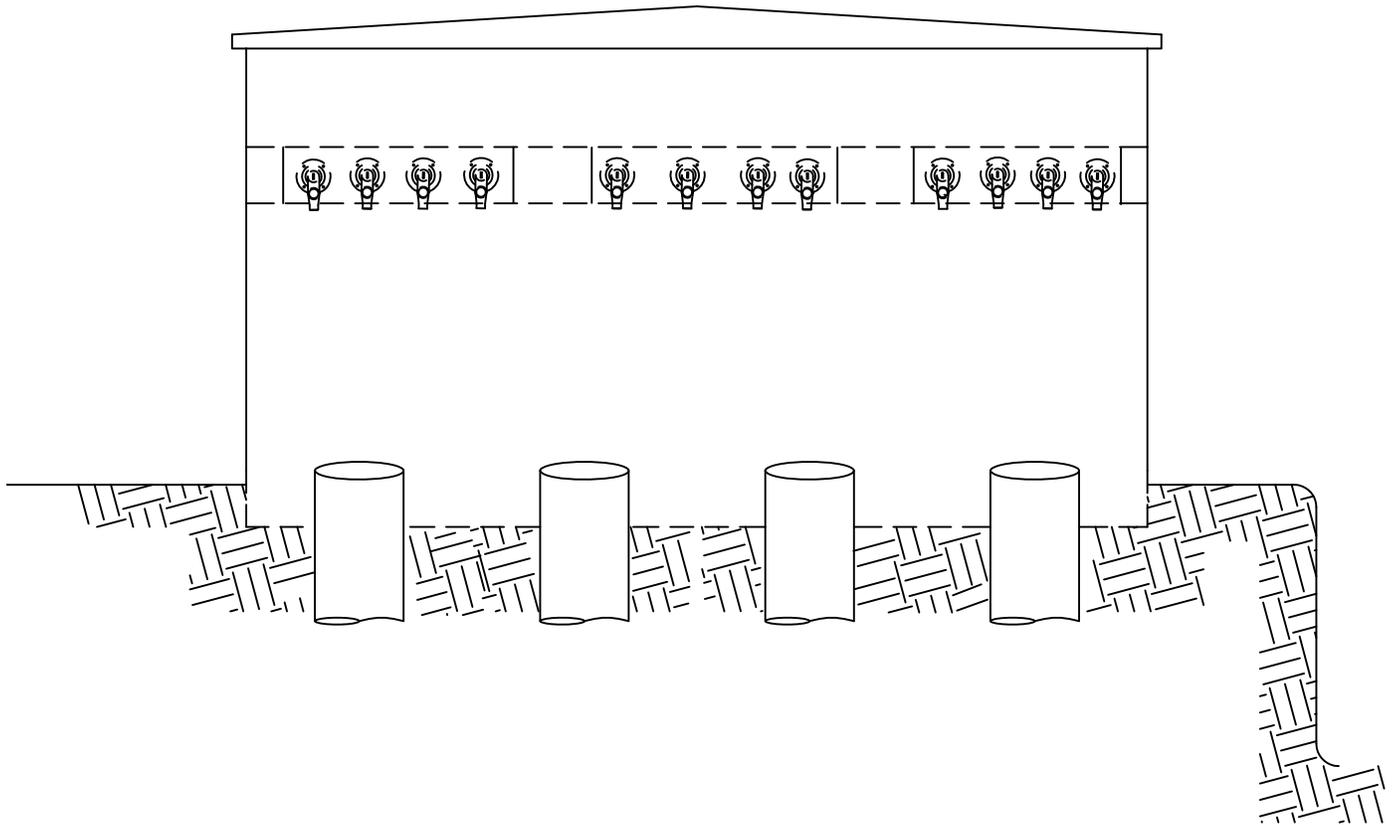


DATE: 09/09/14  
 DRAWN BY: E.J.W.  
 APRV'D BY:  
 APRV'D BY:  
 SCALE: N.T.S.

TITLE:  
**THREE PHASE  
 transclosure PAD**

| REVISIONS |          |
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| BY:       | DATE:    |
| E.J.W.    | 6/9/2009 |
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STANDARD No.  
 PAGE:  
 16 OF 21



DATE: 09/09/14  
 DRAWN BY: E.J.W.  
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 SCALE: N.T.S.

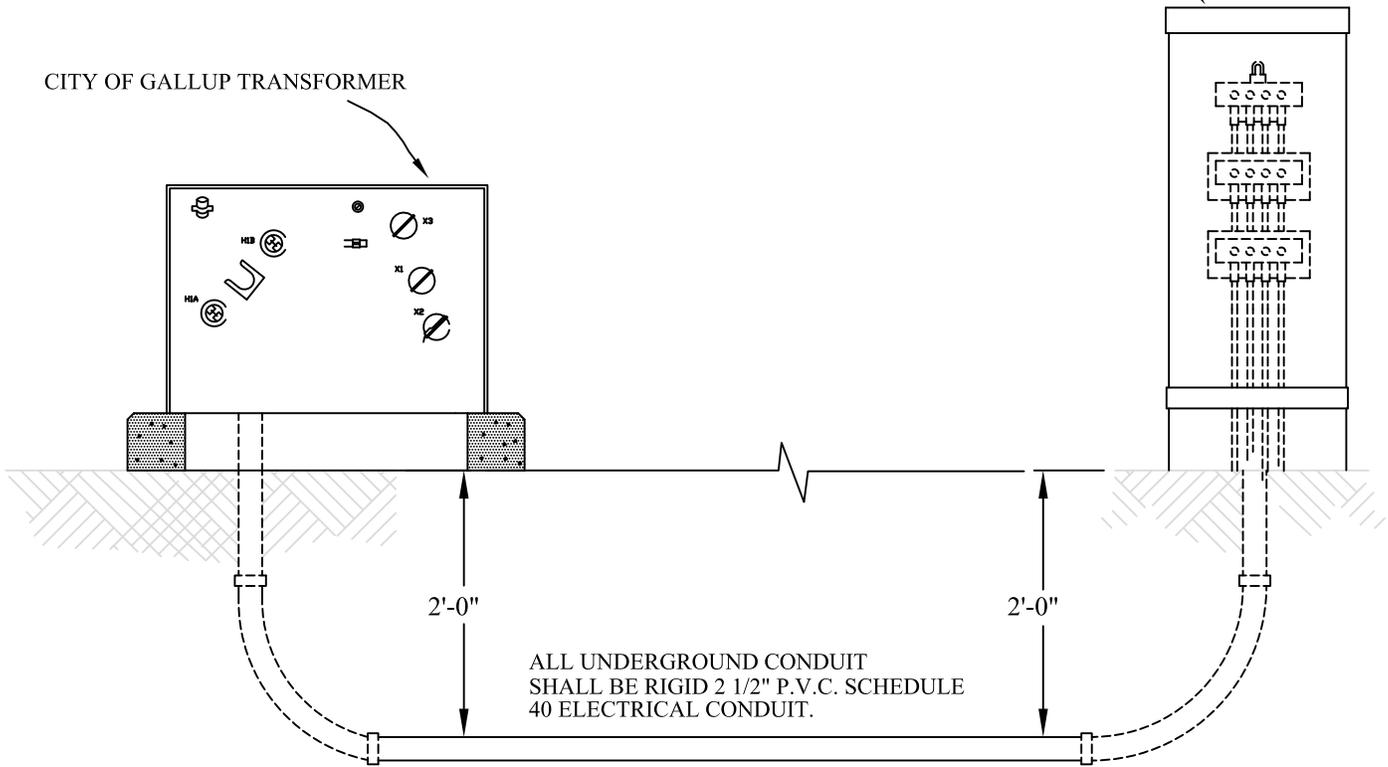
TITLE:  
**THREE PHASE  
 SECTIONALIZING ENCLOSURE**

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STANDARD No.  
 PAGE:  
 17 OF 21

CITY OF GALLUP PEDESTAL

CITY OF GALLUP TRANSFORMER



NOTES

1. CONTRACTOR IS RESPONSIBLE FOR ALL TRENCHING, CONDUIT, AND CONDUCTOR FOR THE SECONDARY INSTALLATION.
2. CONDUIT ABOVE GRADE MUST BE CONNECTED TO GROUND.

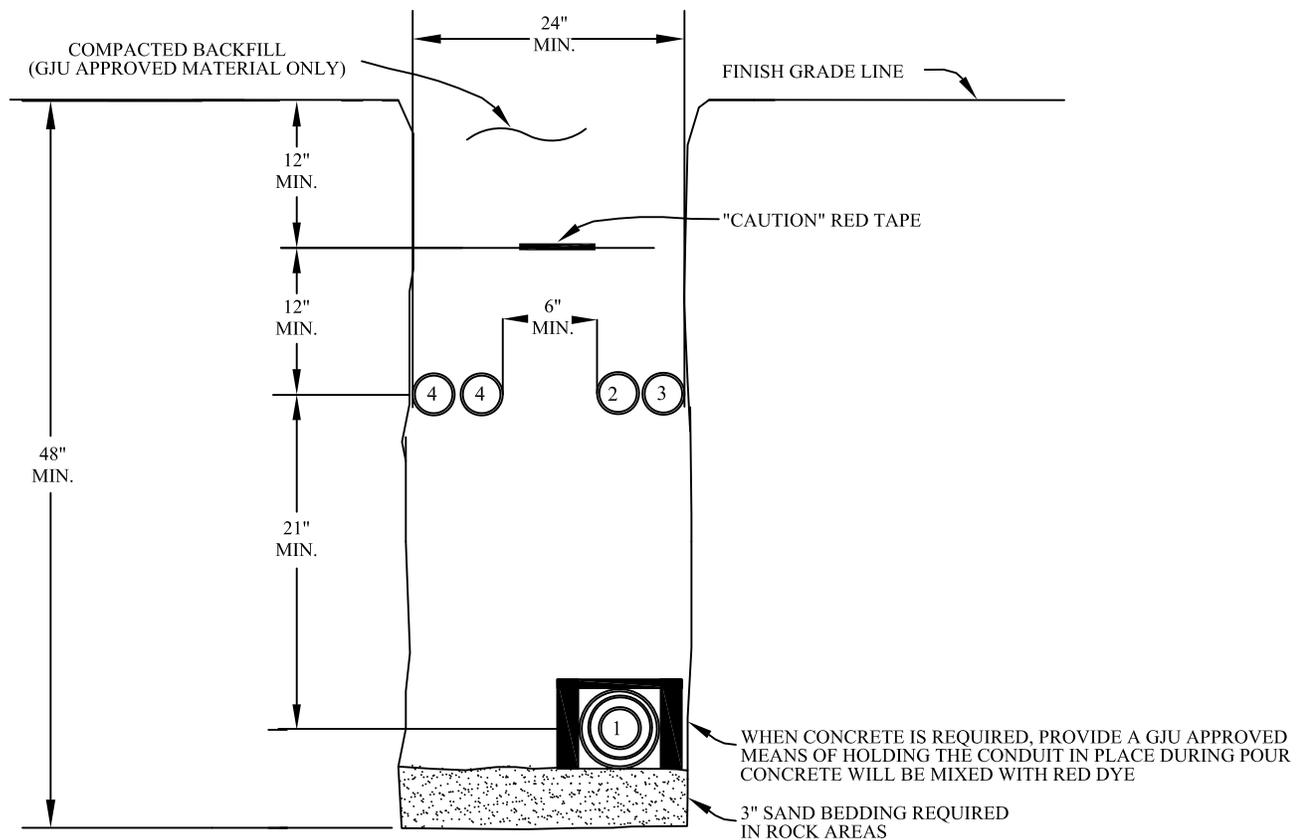


DATE: 09/09/14  
 DRAWN BY: E.J.W.  
 APRV'D BY:  
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 SCALE: N.T.S.

TITLE:  
**SECONDARY  
 UNDERGROUND PEDESTAL**

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STANDARD No.  
 PAGE:  
 18 OF 21



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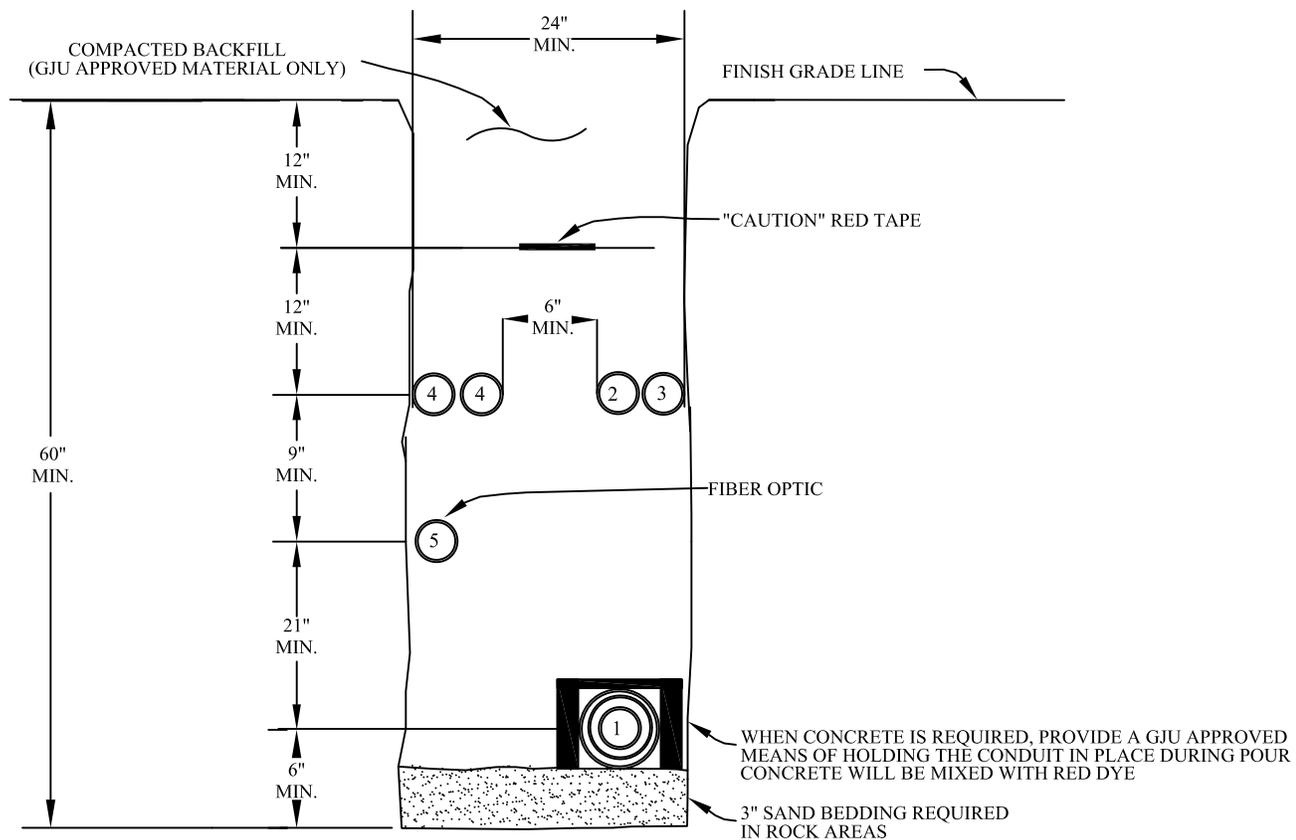
**LOCATIONS OF CONDUITS WHEN NEEDED**

1. 5" DIA. and 6" DIA. ELECTRIC CONDUIT FOR No. 4/0 - No. 500 MCM 3Ø PRIMARY CONDUCTORS  
 4" DIA. ELECTRIC CONDUIT FOR No. 2 3Ø PHASE PRIMARY CONDUCTORS  
 2" DIA. ELECTRIC CONDUIT FOR No. 2 1Ø PHASE PRIMARY CONDUCTORS
2. 2 1/2" DIA ELECTRIC CONDUITS FOR SECONDARY CONDUCTORS
3. 2 1/2" DIA. STREETLIGHT CONDUITS
4. CATV CABLE/TELE CABLE

**SPECIAL NOTES:**

1. NO BACKFILLING UNTIL BEDDING IS INSPECTED AND APPROVED BY GJU.
2. IF ROCK IS ENCOUNTERED AND PREVENTS THE CONDUIT FROM BEING PLACED AT THE MINIMUM DEPTH OF 48" CONTACT GJU.

|  |                  |  |           |            |                   |
|--|------------------|--|-----------|------------|-------------------|
|  | DATE: 09/09/14   | TITLE:<br><b>4FT TRENCH – DETAIL<br/>         SINGLE PRIMARY CONDUIT</b> | REVISIONS |            | STANDARD No.      |
|  | DRAWN BY: E.J.W. |  | BY:       | DATE:      |                   |
|  | APRVD BY:        |  | E.J.W.    | 02/15/2011 | PAGE:<br>19 OF 21 |
|  | APRVD BY:        |  |           |            |                   |
|  | SCALE: N.T.S.    |  |           |            |                   |



**NOTES:**

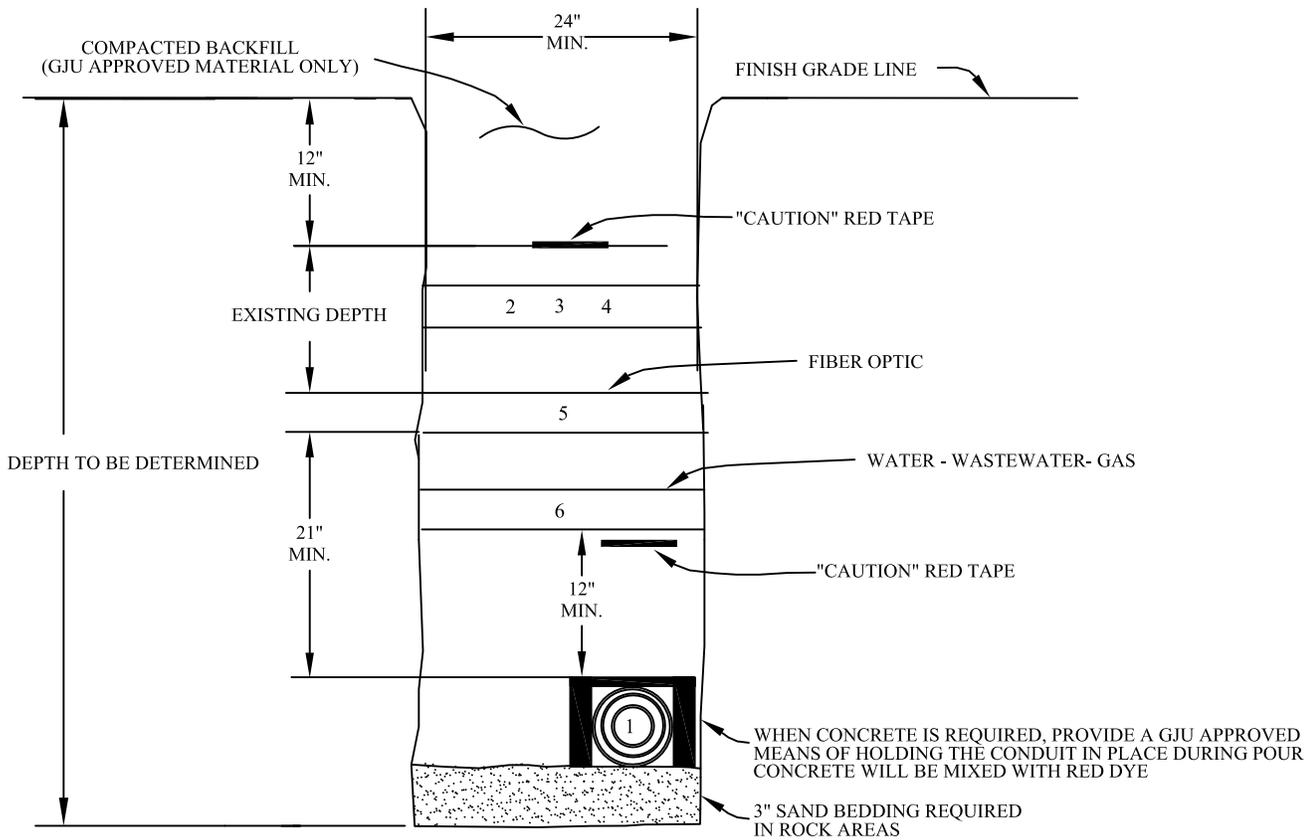
**LOCATIONS OF CONDUITS WHEN NEEDED**

1. 5" DIA. and 6" DIA. ELECTRIC CONDUIT FOR No. 4/0 - No. 500 MCM 3Ø PRIMARY CONDUCTORS
- 4" DIA. ELECTRIC CONDUIT FOR No. 2 3Ø PHASE PRIMARY CONDUCTORS
- 2" DIA. ELECTRIC CONDUIT FOR No. 2 1Ø PHASE PRIMARY CONDUCTORS
2. 2 1/2" DIA ELECTRIC CONDUITS FOR SECONDARY CONDUCTORS
3. 2 1/2" DIA. STREETLIGHT CONDUITS
4. CATV CABLE/TELE CABLE
5. COMMUNICATION FIBER OPTIC

**SPECIAL NOTES:**

1. NO BACKFILLING UNTIL BEDDING IS INSPECTED AND APPROVED BY GJU.
2. IF ROCK IS ENCOUNTERED AND PREVENTS THE CONDUIT FROM BEING PLACED AT THE MINIMUM DEPTH OF 60" CONTACT GJU.
3. TRENCHES 60" INCHES AND GREATER REQUIRE ADDITIONAL SUPPORT FROM ELECTRIC DEPARTMENT VEHICLES CONTACT GJU.

|  |                  |   |            |                  |              |
|--|------------------|---|------------|------------------|--------------|
|  | DATE: 09/09/14   | TITLE: 5FT TRENCH - DETAIL SINGLE PRIMARY CONDUIT | REVISIONS  |                  | STANDARD No. |
|  | DRAWN BY: E.J.W. |   | BY: E.J.W. | DATE: 02/15/2011 |              |
|  | APRVD BY:        |   |            |                  | PAGE:        |
|  | APRVD BY:        |   |            |                  | 20 OF 21     |
|  | SCALE: N.T.S.    |   |            |                  |              |



**NOTES:**

**LOCATIONS OF CONDUITS WHEN NEEDED**

1. 5" DIA. and 6" DIA. ELECTRIC CONDUIT FOR No. 4/0 - No. 500 MCM 3Ø PRIMARY CONDUCTORS  
 4" DIA. ELECTRIC CONDUIT FOR No. 2 3Ø PHASE PRIMARY CONDUCTORS  
 2" DIA. ELECTRIC CONDUIT FOR No. 2 1Ø PHASE PRIMARY CONDUCTORS
2. 2 1/2" DIA ELECTRIC CONDUITS FOR SECONDARY CONDUCTORS
3. 2 1/2" DIA. STREETLIGHT CONDUITS
4. CATV CABLE/TELE CABLE
5. COMMUNICATION FIBER OPTIC
6. WATER, WASTER WATER AND GAS

**SPECIAL NOTES:**

1. NO BACKFILLING UNTIL BEDDING IS INSPECTED AND APPROVED BY GJU.
2. IF ROCK IS ENCOUNTERED AND PREVENTS THE CONDUIT FROM BEING PLACED AT THE MINIMUM DEPTH OF 60" CONTACT GJU.
3. TRENCHES 60" INCHES AND GREATER REQUIRE ADDITIONAL SUPPORT FROM ELECTRIC DEPARTMENT VEHICLES CONTACT GJU.

|  |                  |   |           |       |                   |
|--|------------------|---|-----------|-------|-------------------|
|  | DATE: 09/09/14   | TITLE:<br><b>PRIMARY INSTALLATION<br/>         UNDER EXISTING UTILITIES</b> | REVISIONS |       | STANDARD No.      |
|  | DRAWN BY: E.J.W. |   | BY:       | DATE: |                   |
|  | APRV'D BY:       |   |           |       | PAGE:<br>21 OF 21 |
|  | APRV'D BY:       |   |           |       |                   |
|  | SCALE: N.T.S.    |   |           |       |                   |