

STREET LIGHTING GENERAL NOTES:

1. THIS PROJECT CONSISTS OF WORK TO INSTALL ALL WIRING, CONDUIT, PULL BOXES, POWER PANEL AND CONTROLLER. REFERENCE SCHEDULE OF LIGHTING DEVICES AND SUMMARY OF QUANTITIES DRAWINGS.
2. XCEL ENERGY SHALL PURCHASE AND INSTALL, PROVIDE POWER CONNECTIONS, AND WIRING OF 30' LIGHT STANDARDS WITH SINGLE OR DOUBLE 10' ARMS. TYPICAL BREAK AWAY TYPE TRANSFORMER BASE. AS SPECIFIED ON THE PLANS, FROM MH LIGHTING LOCATED AT 1044 SPEER BOULEVARD, DENVER, CO 80204-0222, 303.573.0222. THE ITEMS NUMBERS ARE AS FOLLOWS.
 - 30' BLACK POLE: ID # 213432, VALMONT PART #2134432, PART#DB00880-800A300-9017
 - 10' ARM (SINGLE): ID #213381, VALMONT PART #DB00880-MS-10-9017
 - 10' ARMS (DOUBLE): ID#213412, VALMONT PART #DB00880-MD-10-9017
3. XCEL ENERGY SHALL FURNISH AND INSTALL THE FOLLOWING ITEMS FROM THE LIGHTING AGENCY, P.O. BOX 449, CONIFER, CO, 303.838.4430.
 - 250 WATT LUMINAIRE: CATALOG NO. 213457, MOUNTAIN STATE PART NO. MSONT23250S3H120SMTMBTLR9017
4. THE CONTRACTOR SHALL INSTALL LIGHT STANDARD & LUMINAIRE (PEDESTRIAN), PAY ITEMS 613-30001 AND 613-30002, SHALL INCLUDE THE FOLLOWING ITEMS FROM ILLUMINATION SYSTEMS LIGHTING LOCATED AT 685 CITADEL DRIVE EAST, SUITE 350, COLORADO SPRINGS, CO 80909, 303.295.2900. THE ITEMS NUMBERS ARE AS FOLLOWS.
 - TYPE SA - 1220LEDPT/S4 PT/5SQ14/ 4A1R35T3/MDL03/SV1/BKT
 - TYPE SB - 2-1220LED/HCT/5SQ /16'2"/ 4A1R35T3/MDL03/SV1/BKT
6. FINAL CONNECTIONS TO POWER SOURCES FOR TYPE "SC" AND "SD" WILL BE COORDINATED BY XCEL ENERGY. FOR COORDINATION PURPOSES AND QUESTIONS FOR TYPE "SC" AND "SD" FIXTURES AND ASSOCIATED WIRING, FOUNDATIONS AND POWER THE XCEL CONTACT IS MICHAEL CASTRO, 2538 BLICHMAN AVENUE, GRAND JUNCTION, CO 81505, 970.244.2656.
7. EACH STANDARD "SC" AND "SD" WILL BE PURCHASED AND INSTALLED BY XCEL ENERGY AND EQUIPPED WITH ITS OWN PHOTO CELL.
8. ALL PEDESTRIAN LIGHTING LUMINARIES TYPE "SA" AND "SB" INSTALLED ON THE PROJECT WILL BE CONTROLLED WITH A ELECTRICAL CONTRACTOR SUPPLIED PHOTO CELL TO BE LOCATED IN "PP1", NEW MILBANK POWER PEDESTAL #CP3B5110A22SL1.
9. ELEVATIONS SHOWN IN THE SCHEDULE OF LIGHTING DEVICES ON THE PLANS SHEETS REPRESENT THE DESIGN FINISHED GRADE OR THE EXISTING GROUND FINISHED GRADE. THESE ELEVATIONS DO NOT INDICATE THE TOP ELEVATION OF THE LIGHT STANDARD FOUNDATION. LIGHT STANDARD FOUNDATIONS FOR THE 30' POLES SHALL BE CONSTRUCTED AS INDICATED IN DRAWINGS. PEDESTRIAN LIGHTING FOUNDATIONS SHALL BE CONSTRUCTED PER THE MANUFACTURERS RECOMMENDATIONS.
10. PULL BOXES FOR LIGHT STANDARD (PEDESTRIAN) WILL BE CDOT TYPE 2, 13"x24"x12" OLD CASTLE PRECAST #FL30T12.EACH STANDARD LIGHT WILL HAVE A PULL BOX INSTALLED NEAR THE LIGHT. PULL BOXES WILL BE INSTALLED IN GRADES WITHOUT CONCRETE WHERE POSSIBLE.
11. PULL BOXES FOR CITY BROADBAND WILL BE MARTIN ENTERPRISES 3048 TIER 22 #3048.
12. ALL ELECTRICAL AND BROADBAND CONDUIT SHALL BE SCHEDULE 80 PVC UNLESS NOTED OTHERWISE, TYPICAL.
13. UNLESS OTHERWISE NOTED, THE WORK DESCRIBED ON THE PLANS SHALL INCLUDE PROVIDING ALL LABOR AND MATERIALS NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. FURNISH ALL REQUIRED ITEMS WHETHER SUCH ARE SPECIFICALLY SHOWN OR NOT.
14. INFORMATION SHOWN ON DRAWINGS IS DIAGRAMMATIC ONLY AND SHALL NOT BE SCALED. OBTAIN VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, POTENTIAL CONFLICTS AMONG TRADES AND FOR ADJUSTING THE WORK REQUIRED BY THE ACTUAL CONDITIONS OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDER GROUND OBSTRUCTIONS AND MAKING ALLOWANCES FOR FIELD ADJUSTMENT OF LOCATION OF LUMINARIES TO AVOID SHUT DOWN OF ANY SERVICES OR SYSTEMS THAT ARE TO REMAIN.
15. DEMOLITION AND REMOVAL OF EXISTING LUMINARIES, FOUNDATIONS, WIRING AND CONDUIT TO BE COMPLETED BY CONTRACTOR AS PART OF THIS CONTRACT.
16. BEFORE SUBMITTING THE BID ELECTRICAL CONTRACTOR SHALL VISIT AND EXAMINE THE PREMISES AND/OR JOB SITE SO AS TO ASCERTAIN THE EXISTING CONDITIONS IN WHICH HE WILL BE OBLIGED TO OPERATE IN PERFORMING HIS PART OF THE CONTRACT TO ANTICIPATE ANY POSSIBLE SPACE RESTRICTIONS OR CONSTRAINTS THAT COULD AFFECT THE TIMELY COMPLETION OF THE ELECTRICAL WORK IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL REPORT TO THE THE PROJECT ENGINEER OR GENERAL CONTRACTOR ANY CONDITIONS THAT MIGHT PREVENT THE SPECIFIED ELECTRICAL WORK FROM BEING PERFORMED IN THE MANNER INTENDED. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED TO THE ELECTRICAL CONTRACTOR FOR FAILURE TO VISIT THE PROJECT SITE, OR FOR ANY ALLEGED MISUNDERSTANDING OF THE MATERIALS TO BE FURNISHED OR WORK TO BE DONE..
17. THE ELECTRICAL CONTRACTOR SHALL EXAMINE THE DRAWINGS OF ALL TRADES WHOSE WORK RELATES TO OR IS DEPENDENT ON ELECTRICAL WORK TO BECOME FULLY INFORMED OF THE EXTENT AND CHARACTER OF THEIR SPECIFIED WORK AND BE ABLE TO COORDINATE WITH OTHER TRADES WHILE AVOIDING POSSIBLE INTERFERENCE WITH THE ELECTRICAL WORK.

LIGHTING LEGEND

- NEW ROADWAY LIGHT STANDARD, 250W HPS TYPE II LUMINAIRE, 30' POLE AND NEW CONCRETE FOUNDATION.
- NEW ROADWAY LIGHT STANDARD, 250W HPS TYPE II LUMINAIRE, 30' POLE AND NEW CONCRETE FOUNDATION.
- SC-X LIGHT STANDARD IDENTIFICATION NUMBER, 30' SINGLE ARM
- SD-X LIGHT STANDARD IDENTIFICATION NUMBER, 30' TWO ARM
- PP1-X ELECTRICAL CIRCUIT NUMBER (REFER TO PANEL SCHEDULES)
- HEAVY DUTY, TRAFFIC RATED, FLUSH-TO-GRADE POLYMER CONCRETE SPLICE BOX WITH HEAVY DUTY, TRAFFIC RATED, BOLTED COVER.13"x24"x12" TYPE 2.
- HEAVY DUTY, TRAFFIC RATED, FLUSH-TO-GRADE POLYMER CONCRETE SPLICE BOX WITH HEAVY DUTY, TRAFFIC RATED, BOLTED COVER.13"x24"x12" TYPE 2.
- UNDER GROUND BURIED RACEWAY (2#8 THWN CU AND 1#10 GND) IN 2" PVC CONDUIT (UNLESS NOTED OTHERWISE ON PLANS) IN 24" DEEP TRENCH, BURY AND COMPACTED BACKFILL TO PRE CONSTRUCTION CONDITION.
- INSTALL DOUBLE ARM PEDESTRIAN STANDARD, ARROW DEPICTS DIRECTION.
- INSTALL POST TOP PEDESTRIAN STANDARD.
- DUPLEX RECEPTACLE



Know what's below.
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| | | | | | | | | | |
|--|--|-----------------|----------|-------|---|----------------|---|------------------------|------------------------|
| Print Date: 10/16/2023 | | Sheet Revisions | | | Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | AS CONSTRUCTED | HORIZON DR AND G RD ROUNDABOUT LIGHTING GENERAL NOTES | | Project No./Code |
| File Name: | | Date: | Comments | Init. | | No Revisions: | | | SHE M555-034 |
| Horiz. Scale: AS SHOWN Vert. Scale: 1 | | | | | | Revised: | Designer: AJM | Structure Numbers | 23652 |
| Unit Information: City of GJ Unit Leader Initials: LF ACM CONSULTING AND ENGINEERING PH: (970) 245-7292 EMAIL: JOELM@ACMengrs.COM | | | | | | Void: | Detailer: AJM | Sheet Subset: LIGHTING | Subset Sheets: 1 of 16 |

Schedule of Lighting Devices

| ITEM No. | 613-30001 | 613-30002 | 613-40012 | NOTES |
|-----------------------|---|---|--|-------|
| LONG DESCRIPTION | LIGHT STANDARD AND LUMINAIRE SINGLE POST TOP (PEDESTRIAN) | LIGHT STANDARD AND LUMINAIRE DUAL HEAD (PEDESTRIAN) | LIGHT STANDARD FOUNDATION SPECIAL (PEDESTRIAN) | |
| UNITS | EACH PLAN | EACH PLAN | EACH PLAN | |
| SHEET NO. | I.D. NO. | STATION | OFFSET | |
| E-6 | SB-4 | 59+0.0052 | L=48.9033 | 1,2 |
| E-6 | SA-7 | 60+26.0779 | L=49.2056 | 1,2 |
| E-6 | SA-8 | 67+13.7715 | R=54.4411 | 1,2 |
| E-6 | SB-5 | 66+28.7252 | R=42.2272 | 1,2 |
| E-6 | SB-7 | 66+92.4334 | L=42.1086 | 1,2 |
| E-6 | SA-9 | 62+26.9013 | L=59.6551 | 1,2 |
| E-6 | SB-8 | 62+93.8126 | L=45.7064 | 1,2 |
| E-6 | SB-6 | 63+16.3902 | R=39.7466 | 1,2 |
| E-6 | SA-6 | 62+9.9161 | R=78.526 | 1,2 |
| E-6 | SB-2 | 59+42.2433 | R=48.1309 | 1,2 |
| E-6 | SA-3 | 60+22.4684 | R=51.049 | 1,2 |
| E-6 | SA-2 | 69+2.002 | R=50.2797 | 1,2 |
| PROJECT TOTALS | | | | |
| | 6 | 6 | 12 | |

SCHEDULE OF LIGHTING DEVICES NOTES:

1. THIS LUMINAIRE, IS INCLUDED IN SCOPE OF THIS CONTRACT.
2. FOUNDATION TOP HEIGHT EQUAL TO ADJACENT SIDEWALK



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| Print Date: 10/16/2023 | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | Sheet Revisions | Colorado Department of Transportation | AS CONSTRUCTED | HORIZON DR AND G RD ROUNDABOUT LIGHTING SCHEDULES | | Project No./Code | |
| File Name: | | Date: | Comments | Init. | No Revisions: | | | SHE M555-034 |
| Horiz. Scale: AS SHOWN Vert. Scale: 1 | | | | | Revised: | Designer: AJM | Structure Numbers | 23652 |
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606 South 9th Street
Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369

Region 3

RBB

Tabulation of Approximate Quantities

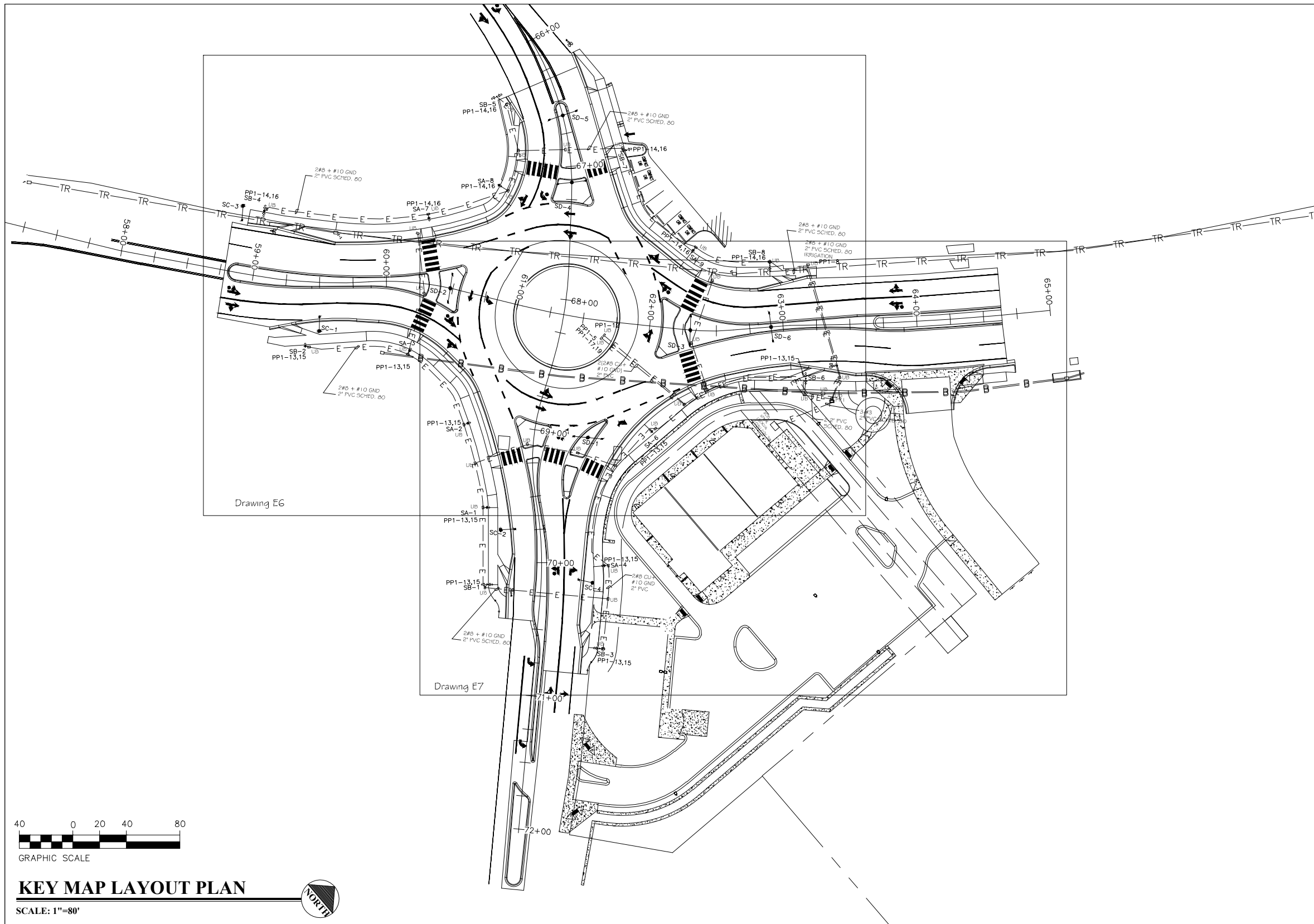
| Item No. | Construction Note Description | Quantity | Unit | NOTES |
|--|--|----------|------|-------|
| 613-01200 | 2 Inch Electrical Conduit (Plastic)(For Electrical) | 2770 | LF | |
| 613-07001 | Type 2 Pull Box(Electrical) | 35 | EA | |
| 613-50106 | Lighting Control Center (Special) | 1 | EA | |
| 613-30002 | Light Standard and Luminaire Double (Pedestrian) | 8 | EA | |
| 613-30001 | Light Standard and Luminaire Single (Pedestrian) | 8 | EA | |
| 613-40012 | Light Standard Foundation (Pedestrian Special) | 16 | EA | |
| 613-10000 | Wiring | 1 | LS | |
| 613-07002 | Tier 22 Pull Box(Broadband) | 3 | EA | |
| 613-01201 | 2 Inch Electrical Conduit (Plastic)(For Broadband) | 1157 | LF | |
| 613-01201 | 3/4 Inch Electrical Conduit (Plastic)(For police camera) | 100 | LF | |
| SUMMARY NOTES: | | | | |
| 1. TYPE "SC" AND "SD" PURCHASED AND INSTALLED BY XCEL ENERGY | | | | |

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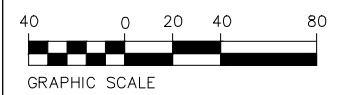


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| Print Date: 10/16/2023 | ① ② ○ ○ | Sheet Revisions | | | Colorado Department of Transportation  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | AS CONSTRUCTED | HORIZON DR AND G RD ROUNDABOUT LIGHTING SCHEDULES | | Project No./Code |
| File Name: | | Date: | Comments | Init. | | No Revisions: | | | SHE M555-034 |
| Horiz. Scale: AS SHOWN Vert. Scale: 1 | | 11/1/23 | ADDED NEW CONDUIT FOR FIBER | | Revised: | Designer: AJM | Structure Numbers | 23652 | |
| Unit Information: City of GJ Unit Leader Initials: LF | | 11/1/23 | ADDED NEW CONDUIT FOR CROSS WALK | | Void: | Detailer: AJM | | | |
| ACM CONSULTING AND ENGINEERING PH: (970) 245-7292 EMAIL: JOELM@ACMengrs.COM | | | | | | Sheet Subset: LIGHTING | Subset Sheets: 4 of 16 | E4 | |



- GENERAL NOTES:**
1. POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
 2. LIGHT TO BE ORIENTED TO BE PERPENDICULAR TO SIDEWALK AND SHINE ON SIDEWALK, TYPICAL.
 3. PROVIDE 2-#8 THWN + #10 GND IN 2" PVC SCHEDULE 80 CONDUIT BETWEEN PULL BOXES UNLESS SHOWN OTHERWISE, TYPICAL. WIRE LIGHTS IN PARALLEL NOT SERIES TO REDUCE VOLTAGE DROP.
 4. PROVIDE 2" PVC SCHEDULE 80 CONDUIT FOR FIBER OPTIC CABLE, WITH PULL STRING. INSTALL IN SAME TRENCH AS ELECTRICAL REFERENCE AUTOCAD DRAWING FOR ALL GEOMETRY ADJUSTMENTS, AND BROADBAND LOCATION.



KEY MAP LAYOUT PLAN
 SCALE: 1"=80'

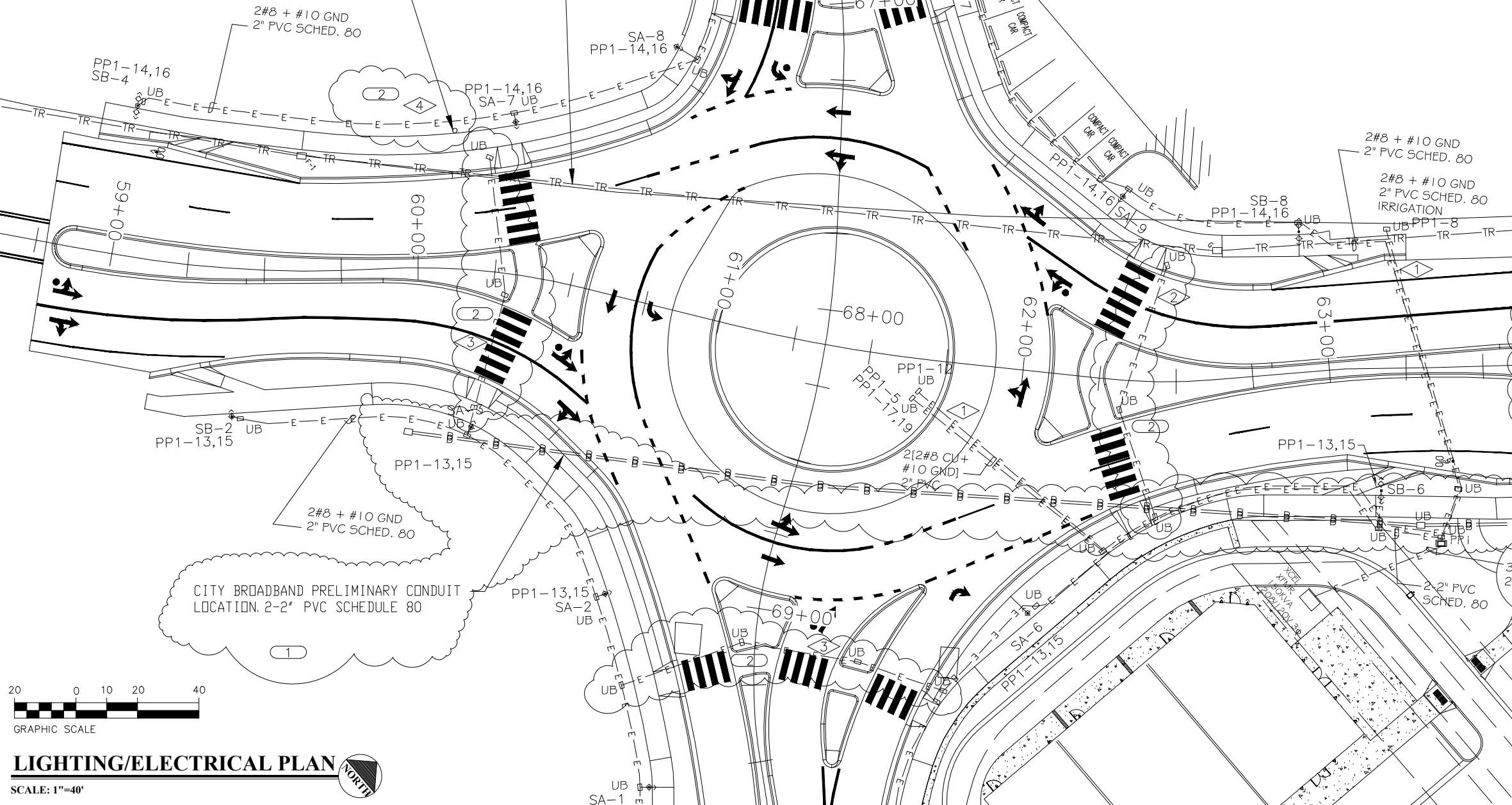


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| Print Date: 10/16/2023 | <table border="1"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | Sheet Revisions | | | Date: | Comments | Init. | | | | | | | Colorado Department of Transportation 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 RBB | AS CONSTRUCTED | HORIZON DR AND G RD ROUNDABOUT | | Project No./Code |
|--|--|-----------------|------------------------|--------------|-------|----------|-------|--|--|--|--|--|--|---|----------------|--------------------------------|--|------------------|
| Sheet Revisions | | | | | | | | | | | | | | | | | | |
| Date: | | Comments | Init. | | | | | | | | | | | | | | | |
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| File Name: | No Revisions: | KEY MAP PLAN | | SHE M555-034 | | | | | | | | | | | | | | |
| Horiz. Scale: 1"=80'-0" Vert. Scale: 1"=20'-0" | Revised: | Designer: AJM | Structure Numbers | 23652 | | | | | | | | | | | | | | |
| Unit Information: City of GJ Unit Leader Initials: LF ACM CONSULTING AND ENGINEERING PH: (970) 245-7292 EMAIL: JOELM@ACMengrs.COM | Void: | Detailer: AJM | Subset Sheets: 5 of 16 | E5 | | | | | | | | | | | | | | |

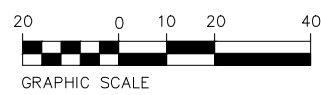
PRELIMINARY CITY TRAFFIC CONDUIT LOCATION. CITY BROADBAND MAY MOVE TO THIS ALIGNMENT IN JOINT TRENCH. MAY BE INSTALLED BY OTHERS PRIOR TO CONSTRUCTION.

PRELIMINARY LOCATION FOR POLICE CAMERA POST. COORDINATE EXACT LOCATION AND SPECIFICATIONS WITH OWNER PRIOR TO TRENCHING.



- GENERAL NOTES:**
1. POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
 2. LIGHT TO BE ORIENTED TO BE PERPENDICULAR TO SIDEWALK AND SHINE ON SIDEWALK, TYPICAL.
 3. PROVIDE 2-#8 THWN + #10 GND IN 2" PVC SCHEDULE 80 CONDUIT BETWEEN PULL BOXES UNLESS SHOWN OTHERWISE, TYPICAL. WIRE LIGHTS IN PARALLEL NOT SERIES TO REDUCE VOLTAGE DROP.
 4. PROVIDE 2" PVC SCHEDULE 80 CONDUIT FOR FIBER OPTIC CABLE, WITH PULL STRING.
 5. REFERENCE AUTOCAD DRAWING FOR ALL GEOMETRY ADJUSTMENTS, AND BROADBAND LOCATION.

- FLAG NOTES:**
- 1 PROVIDE 2-#8+#10GND IN 2" SCHEDULE 80 PVC FOR IRRIGATION. PROVIDE 120 VOLT 20 AMP CIRCUIT BREAKER IN NEW PANEL PP1. COORDINATE EXACT LOCATION WITH IRRIGATION PROVIDER PRIOR TO TRENCHING. LABEL PULLBOX "IRRIGATION".
 - 2 PROVIDE 2-#10+#6GND FROM PP1-10 FOR CROSSWALK SIGNAL LIGHT. COORDINATE EXACT LOCATION OF LIGHT AND CONNECTIONS WITH PROVIDER PRIOR TO ROUGH-IN, TYPICAL
 - 3 PROVIDE 2-#10+#6GND FROM PP1-11 FOR CROSSWALK SIGNAL LIGHT. COORDINATE EXACT LOCATION OF LIGHT AND CONNECTIONS WITH PROVIDER PRIOR TO ROUGH-IN, TYPICAL.
 - 4 FIELD VERIFY EXACT LOCATION OF NEAREST PULL BOX IN EXISTING FIBER FEED. PROVIDE 3/4" PVC TO EXISTING PULL BOX TO CAMERA POLE LOCATION. COORDINATE PVC INSTALLATION WITH POLE PROVIDER PRIOR TO TRENCHING.



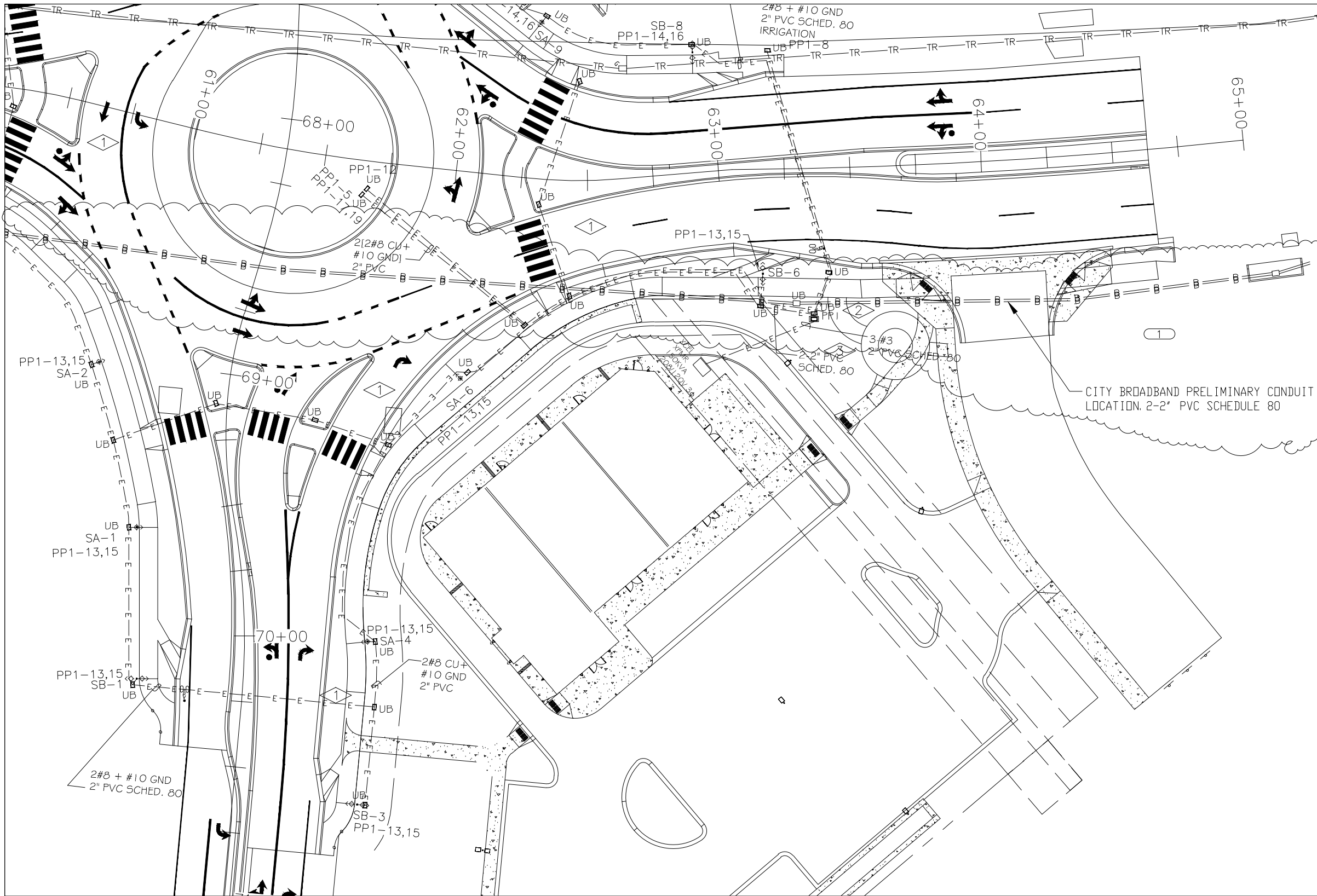
LIGHTING/ELECTRICAL PLAN

SCALE: 1"=40'



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|---|-----------------|-----------------------------|-------|--|----------------|--------------------------------|------------------------|------------------|
| Print Date: 10/16/2023 | Sheet Revisions | | | Colorado Department of Transportation | AS CONSTRUCTED | HORIZON DR AND G RD ROUNDABOUT | | Project No./Code |
| File Name: | Date: | Comments | Init. | | | SITE ELECTRICAL/LIGHTING PLAN | | |
| Horiz. Scale: 1"=40'-0" Vert. Scale: 1" | 11/1/23 | ADDED NEW CONDUIT FOR FIBER | | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 RBB | No Revisions: | Designer: AJM | Structure Numbers | 23652 |
| Unit Information: City of GJ Unit Leader Initials: LF | 10/30/24 | CROSSWALK SIGNAL FEEDS | | | Revised: | Detailer: AJM | | |
| ACM CONSULTING AND ENGINEERING PH: (970) 245-7292 EMAIL: JOELM@ACMengrs.COM | | | | | Void: | Sheet Subset: LIGHTING | Subset Sheets: 6 of 16 | E6 |



- GENERAL NOTES:**
1. POWER CIRCUIT AS SHOWN ON DRAWING, TYPICAL.
 2. LIGHT TO BE ORIENTED TO BE PERPENDICULAR TO SIDEWALK AND SHINE ON SIDEWALK, TYPICAL.
 3. PROVIDE 2-#8 THWN + #10 GND IN 2" PVC SCHEDULE 80 CONDUIT BETWEEN PULL BOXES UNLESS SHOWN OTHERWISE, TYPICAL. WIRE LIGHTS IN PARALLEL NOT SERIES TO REDUCE VOLTAGE DROP.
 4. PROVIDE 2" PVC SCHEDULE 80 CONDUIT FOR FIBER OPTIC CABLE, WITH PULL STRING.

- FLAG NOTES:**
- 1 TYPE "SC" AND "SD" TO NOT BE METERED. COORDINATE CONNECTIONS WITH XCEL ENERGY PRIOR TO TRENCHING.
 - 2 ORIENT PEDESTAL "PP1" SO THAT PHOTOCELL IS POINTED IN THE MOST NORTHERLY DIRECTION.
 - 3 COORDINATE CONNECTIONS TO TRANSFORMER WITH XCEL ENERGY PRIOR TO TRENCHING.

CITY BROADBAND PRELIMINARY CONDUIT LOCATION. 2-2" PVC SCHEDULE 80

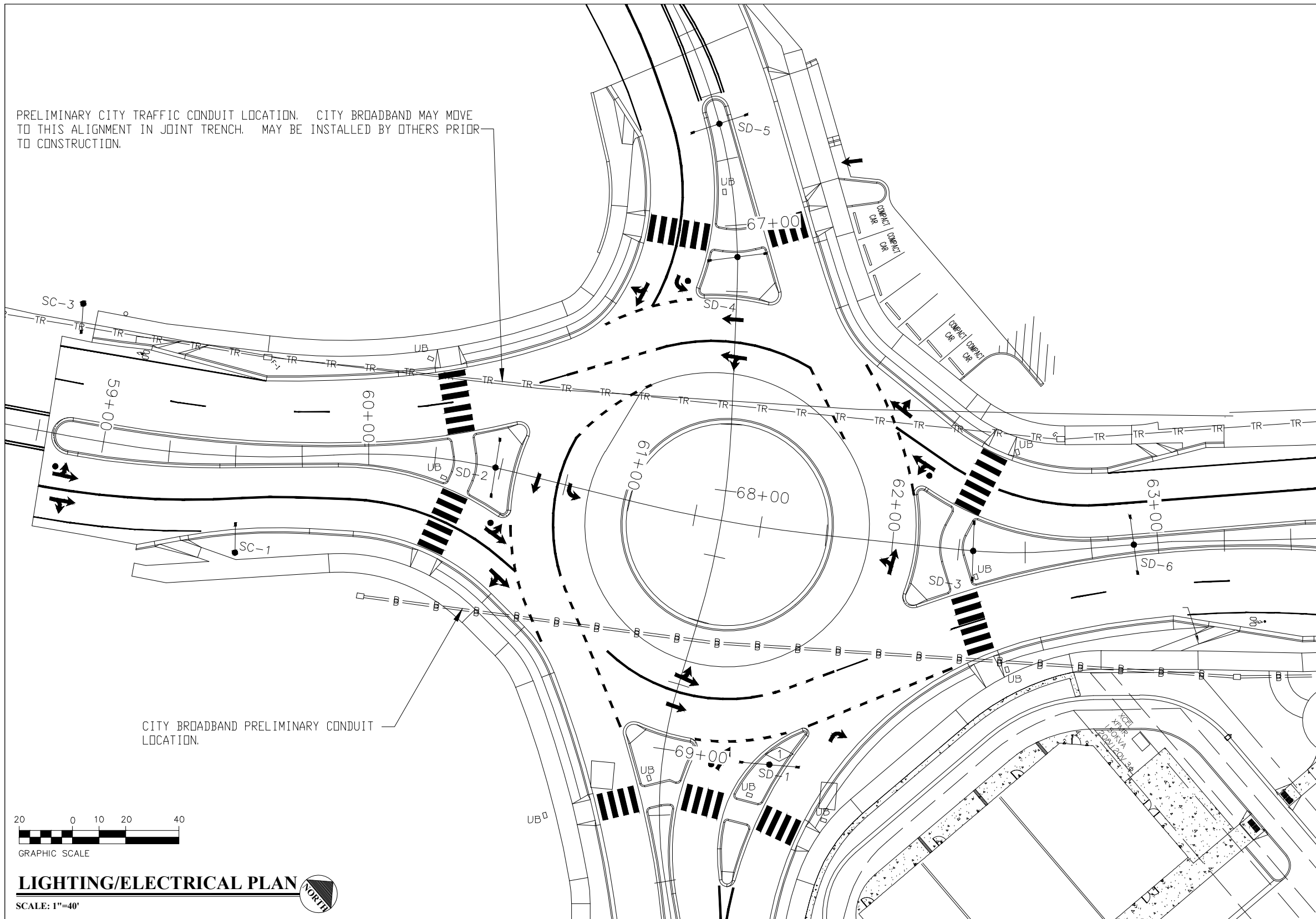
20 0 10 20 40
 GRAPHIC SCALE
LIGHTING/ELECTRICAL PLAN
 SCALE: 1"=40'



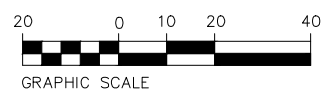
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| Horiz. Scale: 1"=40'-0" | 11/1/23 | ADDED NEW CONDUIT FOR FIBER | | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | No Revisions: | Designer: AJM | Structure Numbers | 23652 |
| Unit Information: City of GJ Unit Leader Initials: LF ACM CONSULTING AND ENGINEERING PH: (970) 245-7292 EMAIL: JOELM@ACMengrs.COM | | | | | Revised: | Detailer: AJM | | |
| | | | | Region 3 | Void: | Sheet Subset: LIGHTING | Subset Sheets: 7 of 16 | E7 |

PRELIMINARY CITY TRAFFIC CONDUIT LOCATION. CITY BROADBAND MAY MOVE TO THIS ALIGNMENT IN JOINT TRENCH. MAY BE INSTALLED BY OTHERS PRIOR TO CONSTRUCTION.



CITY BROADBAND PRELIMINARY CONDUIT LOCATION.



LIGHTING/ELECTRICAL PLAN
SCALE: 1"=40'

- GENERAL NOTES:**
1. TYPE SC AND SD LIGHTING TO BE PURCHASED AND INSTALLED BY XCEL ENERGY. LOCATIONS ARE SHOWN FOR ILLUSTRATION ONLY.
 2. XCEL ENERGY TO PLACE LIGHTING TO AVOID INTERFERENCE WITH FIBER OR SEWER AND WATER LOCATIONS.

- FLAG NOTES:**
- ① COORDINATE EXACT LOCATION OF LIGHT WITH OWNER, REFERENCE UTILITY MAP. STAY AT MINIMUM 5' AWAY FROM SEWER AND WATER, TYPICAL.



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Print Date: 10/16/2023
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Horiz. Scale: 1"=40'-0" Vert. Scale: 1
Unit Information: City of GJ Unit Leader Initials: LF
ACM CONSULTING AND ENGINEERING
PH: (970) 245-7292
EMAIL: JOELM@ACMengrs.COM

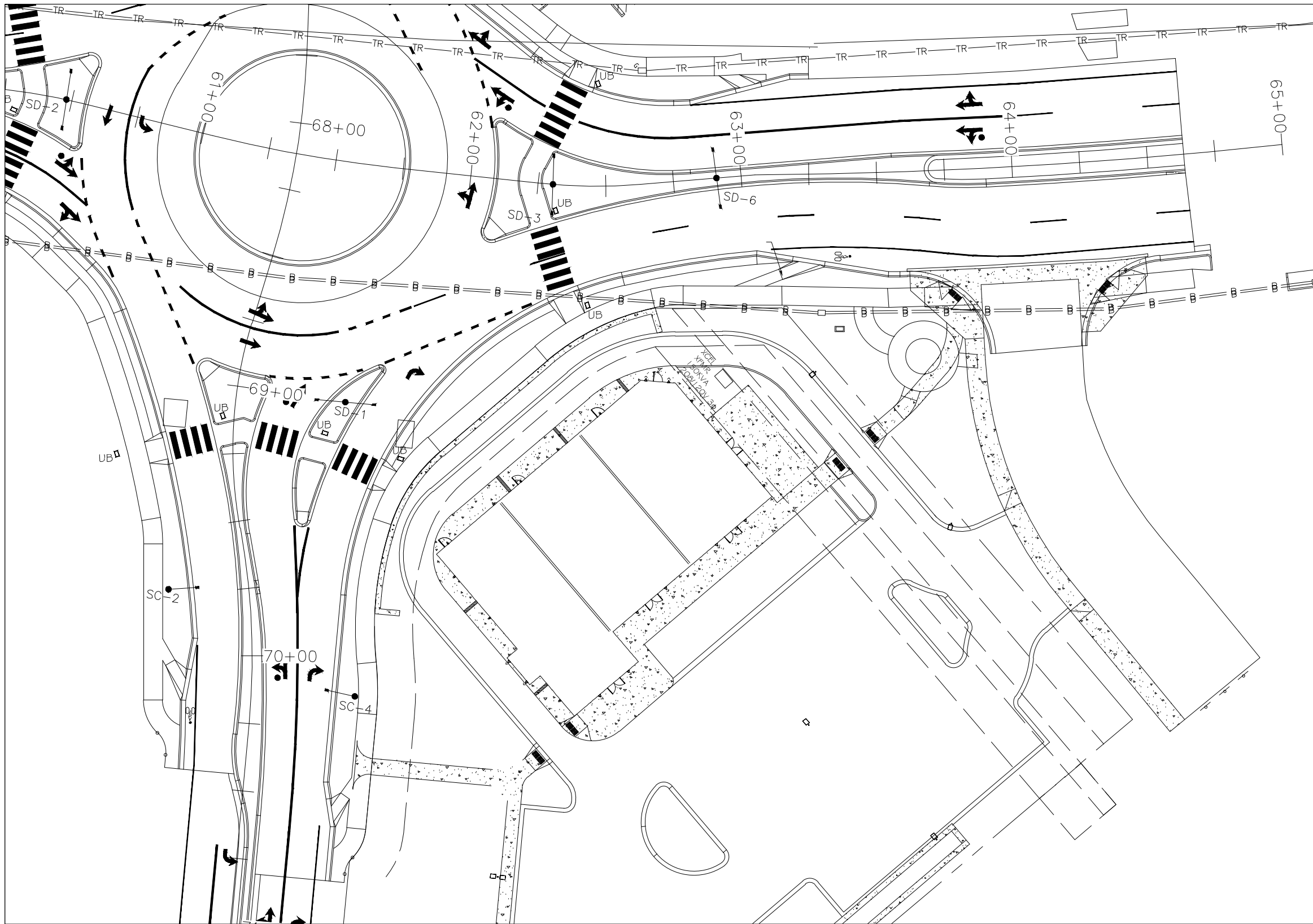
| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
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Colorado Department of Transportation
606 South 9th Street
Grand Junction, CO, 81501
Phone: 970-683-6351 FAX: 970-683-6369
Region 3 RBB

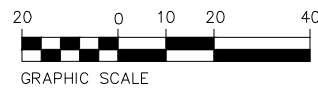
AS CONSTRUCTED
No Revisions:
Revised:
Void:

HORIZON DR AND G RD ROUNDABOUT
XCEL LIGHTING PLAN
Designer: AJM
Detailer: AJM
Sheet Subset: LIGHTING
Structure Numbers
Subset Sheets: 8 of 16

Project No./Code
SHE M555-034
23652
E8



- GENERAL NOTES:**
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 2. XCEL ENERGY TO PLACE LIGHTING TO AVOID INTERFERENCE WITH FIBER OR SEWER AND WATER LOCATIONS.



LIGHTING/ELECTRICAL PLAN

SCALE: 1"=40'



Know what's below.
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Print Date: 10/16/2023
 File Name:
 Horiz. Scale: 1"=40'-0" Vert. Scale: 1
 Unit Information: City of GJ Unit Leader Initials: LF
 ACM CONSULTING AND ENGINEERING
 PH: (970) 245-7292
 EMAIL: JOELM@ACMengrs.COM

| Sheet Revisions | | |
|-----------------|----------|-------|
| Date: | Comments | Init. |
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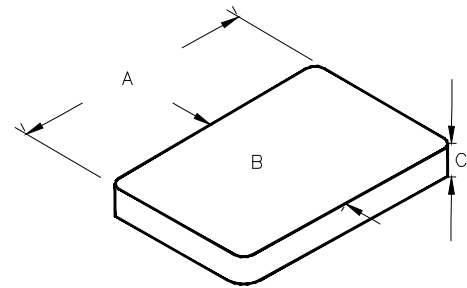
Colorado Department of Transportation

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 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB

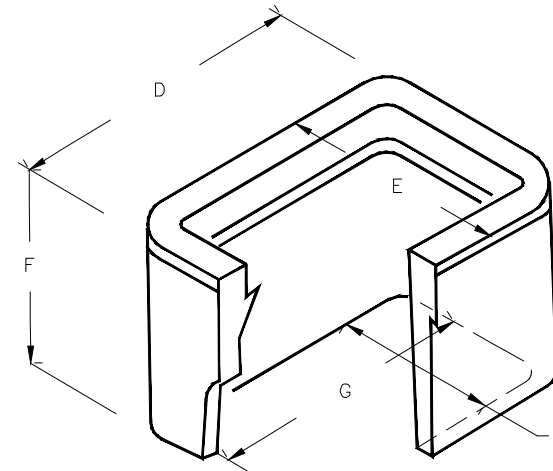
AS CONSTRUCTED
 No Revisions:
 Revised:
 Void:

HORIZON DR AND G RD ROUNDABOUT
 XCEL LIGHTING PLAN
 Designer: AJM
 Detailer: AJM
 Sheet Subset: LIGHTING

Project No./Code
 SHE M555-034
 Structure Numbers
 23652
 Subset Sheets: 9 of 16
 E9



| TABLE OF DIMENSIONS (MINIMUMS) | | | | | | | | | |
|--------------------------------|--------------------------|------------------|--------|-------|--------|--------|----|--------|--------|
| TYPE | DESCRIPTION | DIMENSIONS (IN.) | | | | | | | |
| | | A | B | C | D | E | F | G | H |
| 1 | PULL BOX - (11"x18"x12") | 18 1/8 | 11 1/4 | 1 3/4 | 20 1/4 | 13 3/8 | 12 | 15 3/4 | 8 7/8 |
| 2 | PULL BOX - (13"x24"x12") | 23 1/4 | 13 3/4 | 2 | 25 | 15 1/2 | 12 | 19 1/4 | 9 3/4 |
| 3 | PULL BOX - (17"x30"x12") | 30 1/2 | 17 1/2 | 2 | 32 1/4 | 19 1/4 | 12 | 26 1/2 | 13 1/2 |
| 4 | PULL BOX - (24"x36"x24") | 35 5/8 | 24 | 3 | 37 5/8 | 26 | 24 | 30 1/8 | 18 1/2 |
| 5 | PULL BOX - (30"x48"x24") | 47 5/8 | 30 | 3 | 49 5/8 | 32 1/8 | 24 | 45 5/8 | 28 1/8 |



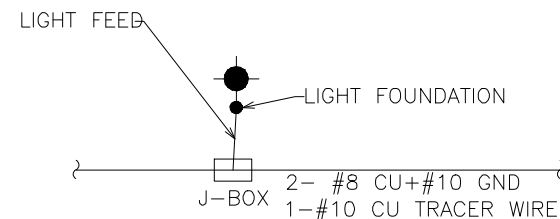
STREET LIGHT, FIBER AND PEDESTRIAN LIGHT PULL BOX

NOTES:

- PULL BOXES, PULL BOX COVERS AND EXTENSIONS SHALL BE MADE OF FIBERGLASS REINFORCED POLYMER CONCRETE. PULL BOXES SHALL BE VERIFIED BY A 3RD PARTY NATIONALLY RECOGNIZED INDEPENDENT TESTING LABORATORY AS MEETING ALL TEST PROVISIONS OF THE LATEST ANSISCTE 77 SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY, TIER 22 RATING. CERTIFICATION DOCUMENTS SHALL BE SUBMITTED WITH MATERIALS SUBMITTALS. THE PULL BOX SHALL HAVE A DETACHABLE COVER WITH A SKID RESISTANT SURFACE AND HAVE THE WORDS ELECTRICAL CAST INTO THE SURFACE. PAINTING THE WORDS SHALL NOT BE ACCEPTED. MARKINGS SHOWING THE TIER 22 RATING MUST BE LABELED OR STENCILED ON THE INSIDE AND OUTSIDE OF THE BOX AND ON THE UNDER SIDE OF THE COVER. THE COVER SHALL BE ATTACHED TO THE PULL BOX BODY BY MEANS OF A MINIMUM 3/8 - 7 UNIFIED NATIONAL COURSE (UNC) STAINLESS STEEL PENTA HEAD BOLTS AND SHALL HAVE TWO LIFT SLOTS TO AID IN THE REMOVAL OF THE LID.
- PULL SLOTS SHALL BE RATED FOR A MINIMUM PULL OUT OF 3,000 POUNDS. MAGNESIUM CHLORIDE TESTS SHOULD BE PERFORMED IN ACCORDANCE WITH THE LATEST ANSISCTE 77 SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY, TIER 22 RATING.
- PROVIDE AT LEAST 6 INCHES OF PEA GRAVEL MEASURED FROM BOTTOM OF PULL BOX FOR DRAINAGE. PEA GRAVEL IS INCLUDED IN PULL BOX PAY ITEM.
- DIMENSIONS SHOWN HERE FOR LAYOUT AND PLANNING PURPOSES. CONTRACTOR SHALL RELY ON MANUFACTURER DETAILS.
- ELECTRIC PULLBOX WILL BE LABELED "ELECTRIC", FIBER PULLBOX WILL BE LABELED "GJ FIBER"
- ELECTRIC WILL BE TYPE 2 AND FIBER WILL BE TYPE 3.
- WEATHERPROOF TAGS SHALL BE INSTALLED ON ALL FIBER CABLES AND SHALL BE INCLUDED IN THE COST OF ELECTRICAL CONDUIT ITEM.
- TRACER WIRE AND PULL ROPE SHALL BE INCLUDED IN THE COST OF ELECTRICAL CONDUIT ITEM.
- MAIN BACKBONE AND LATER FIBER CONDUIT: IF INSTALLATION INCLUDES MULTIPLE RUNS OF CONDUIT, PULL ROPE SHALL BE INSTALLED IN EACH INDIVIDUAL CONDUIT. TRACER WIRE SHALL BE INSTALLED IN ONLY ONE CONDUIT. IF INSTALLATION INCLUDES ONLY ONE RUN OF CONDUIT, PULL ROPE AND TRACER WIRE SHALL BE INSTALLED IN SAME CONDUIT AS FIBER CABLE.

C TYPICAL UTILITY BOX DETAIL

1 NOT TO SCALE



| TYPE | MANUFACTURER MODEL NUMBER | APPROVAL | VOLTAGE MOUNTING # OF LAMP S | BALLAST LAMPE TYPE LAMP CAT. # | DESCRIPTION |
|------|---|--------------------|------------------------------------|--------------------------------------|---|
| SA | STERNBERG LIGHTING 1220LEDPT/S4PT/SSQ14/ 4A1R35T3MDL03/SV1.BKT | OWNER REQUESTED | MVOLT POLE 1 | ELECTRONIC LED 95 | PEDESTRIAN LUMINAIRE, POST TOP MOUNTED, LED, CUTOFF, ORDER POLE SO THAT LAMP HEIGHT IS 12' AFG MEASURED AT BOTTOM OF LUMINAIRE |
| SB | STERNBERG LIGHTING 2-1220LED/HCT/SSQ 16'2"/ 4A1R35T3MDL03/SV1.BKT | OWNER REQUESTED | MVOLT POLE 2 | ELECTRONIC LED 95 | POST ARM MOUNTED PEDESTRIAN LUMINAIRE, LED, CUTOFF, ORDER POLE HEIGHT SO THAT LAMP HEIGHT IS 12' AFG MEASURED AT BOTTOM OF LUMINAIRE. |
| SC | AMERICAN ELECTRIC LIGHTING ATBM-P40-MVOLT-R3-4-3K-P7-SH- BAA | OWNER REQUESTED | MVOLT POLE 1 | ELECTRONIC LED 135W | ROADWAY LUMINAIRE, LED, ORDER POLE SO THAT LAMP HEIGHT IS 30' AFG MEASURED AT BOTTOM OF LUMINAIRE. LUMINAIRE TO HAVE SINGLE 10' ARM. PURCHASED AND INSTALLED BY XCEL ELECTRIC. |
| SD | AMERICAN ELECTRIC LIGHTING ATBM-P40-MVOLT-R3-4-3K-P7-SH- BAA | OWNER REQUESTED | MVOLT DUAL ARM POLE 2 | ELECTRONIC LED 270W | ROADWAY LUMINAIRE, LED, ORDER POLE SO THAT LAMP HEIGHT IS 30' AFG MEASURED AT BOTTOM OF LUMINAIRE. DUAL LUMINAIRES TO BE MOUNTED TO TWO 10' ARMS. PURCHASED AND INSTALLED BY XCEL ELECTRIC. |

C UTILITY BOX CONNECTION DETAIL

2 NOT TO SCALE

NOTES:

- ALL WIRING TO LIGHTS WILL BE WIRED IN PARALLEL NOT IN SERIES WITH #8 WIRE FEED TO REDUCE VOLTAGE DROP.
- PROVIDE #10 TRACER WIRE IN ALL NEW CONDUIT.

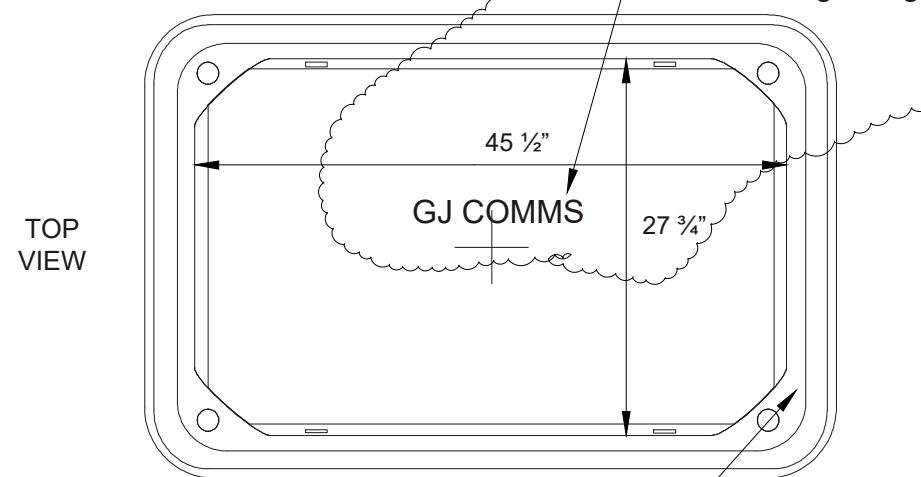


Know what's below.
Call before you dig.

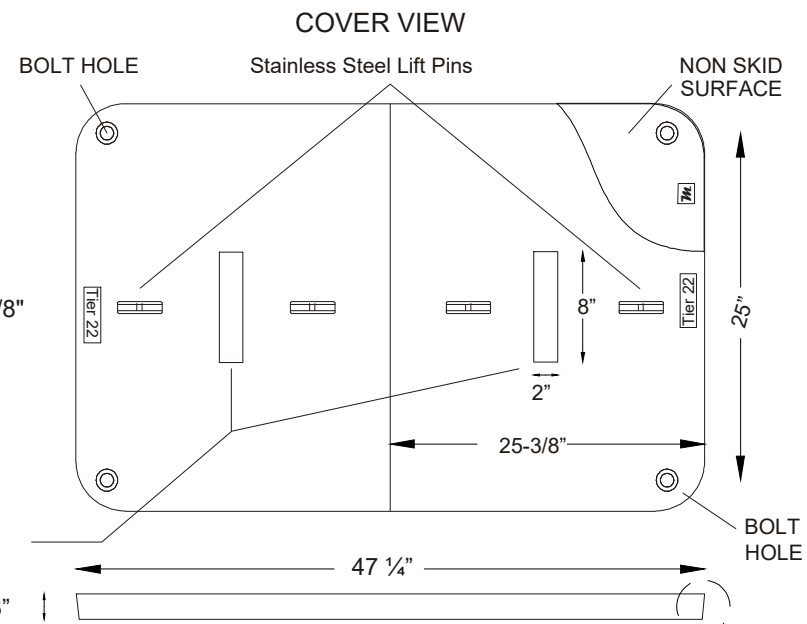
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|---|--------------------------------|----------|-------|--|----------------|---|-------------------------|------------------|-----|
| Print Date: 10/16/2023 | Sheet Revisions | | | Colorado Department of Transportation | AS CONSTRUCTED | HORIZON DR AND G RD ROUNDABOUT ELECTRICAL DETAILS | | Project No./Code | |
| File Name: | Date: | Comments | Init. | | No Revisions: | | | SHE M555-034 | |
| Horiz. Scale: AS SHOWN | Vert. Scale: 1 | | | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 RBB | Revised: | Designer: AJM | Structure Numbers | 23652 | |
| Unit Information: City of GJ Unit Leader Initials: LF | ACM CONSULTING AND ENGINEERING | | | | Void: | Detailer: AJM | | | E10 |
| PH: (970) 245-7292 | EMAIL: JOELM@ACMengrs.COM | | | | | Sheet Subset: LIGHTING | Subset Sheets: 10 of 16 | | |

3048 Polymer Concrete Series / Tier 15 & 22

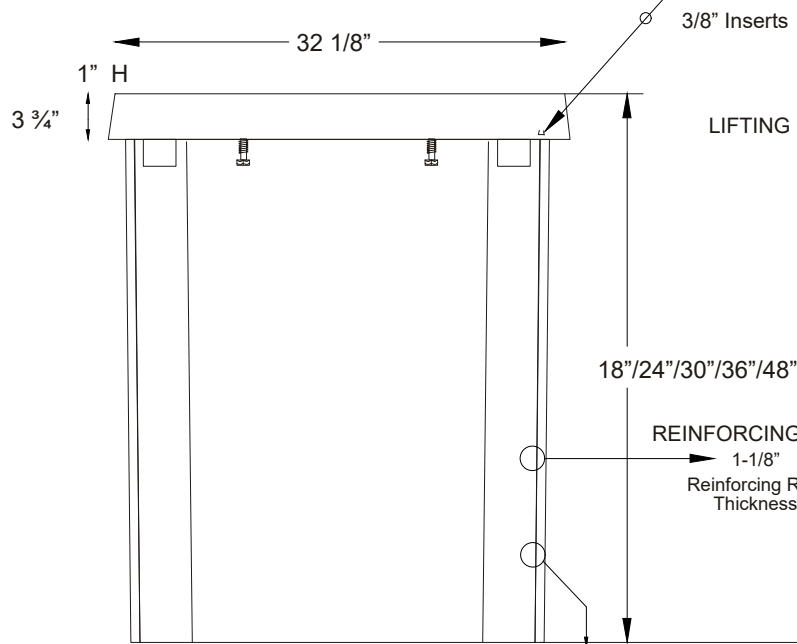
Listed Product



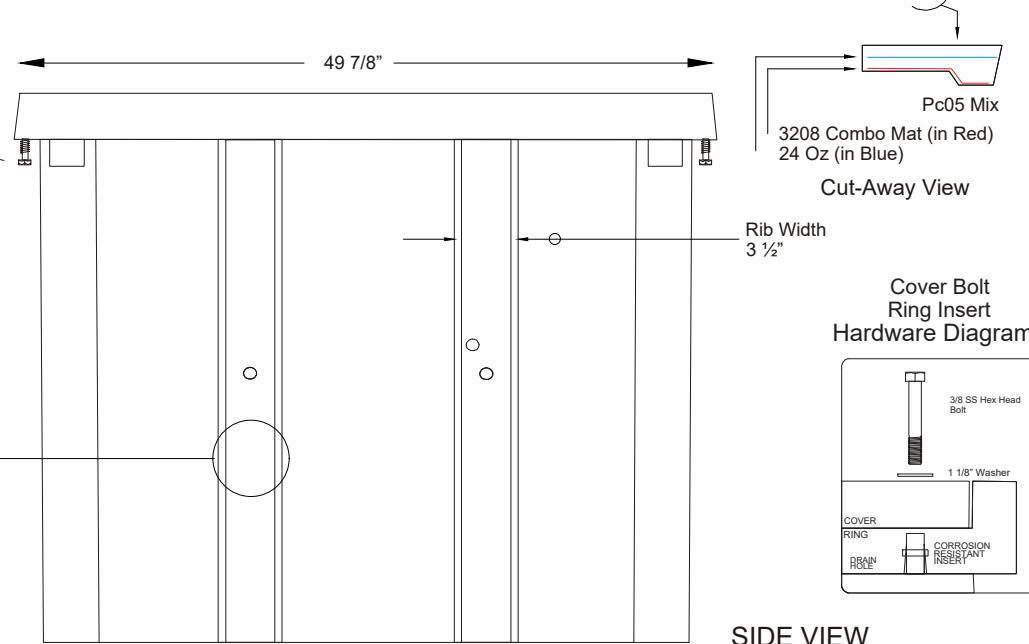
TOP VIEW



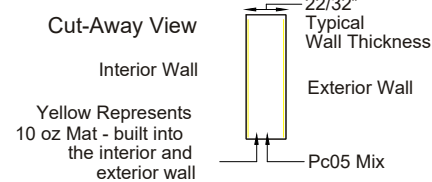
COVER VIEW



END VIEW



SIDE VIEW



Cut-Away View

Interior Wall

Exterior Wall

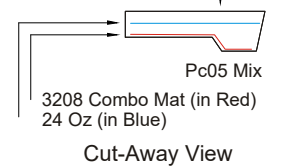
Yellow Represents
10 oz Mat - built into
the interior and
exterior wall

22/32"
Typical
Wall Thickness

Interior Wall

Exterior Wall

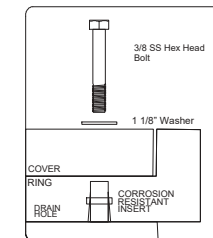
Pc05 Mix



Cut-Away View

Rib Width
3 1/2"

Cover Bolt
Ring Insert
Hardware Diagram Detail




MARTIN ENTERPRISES 3048 BROADBAND PULLBOX

NOT TO SCALE

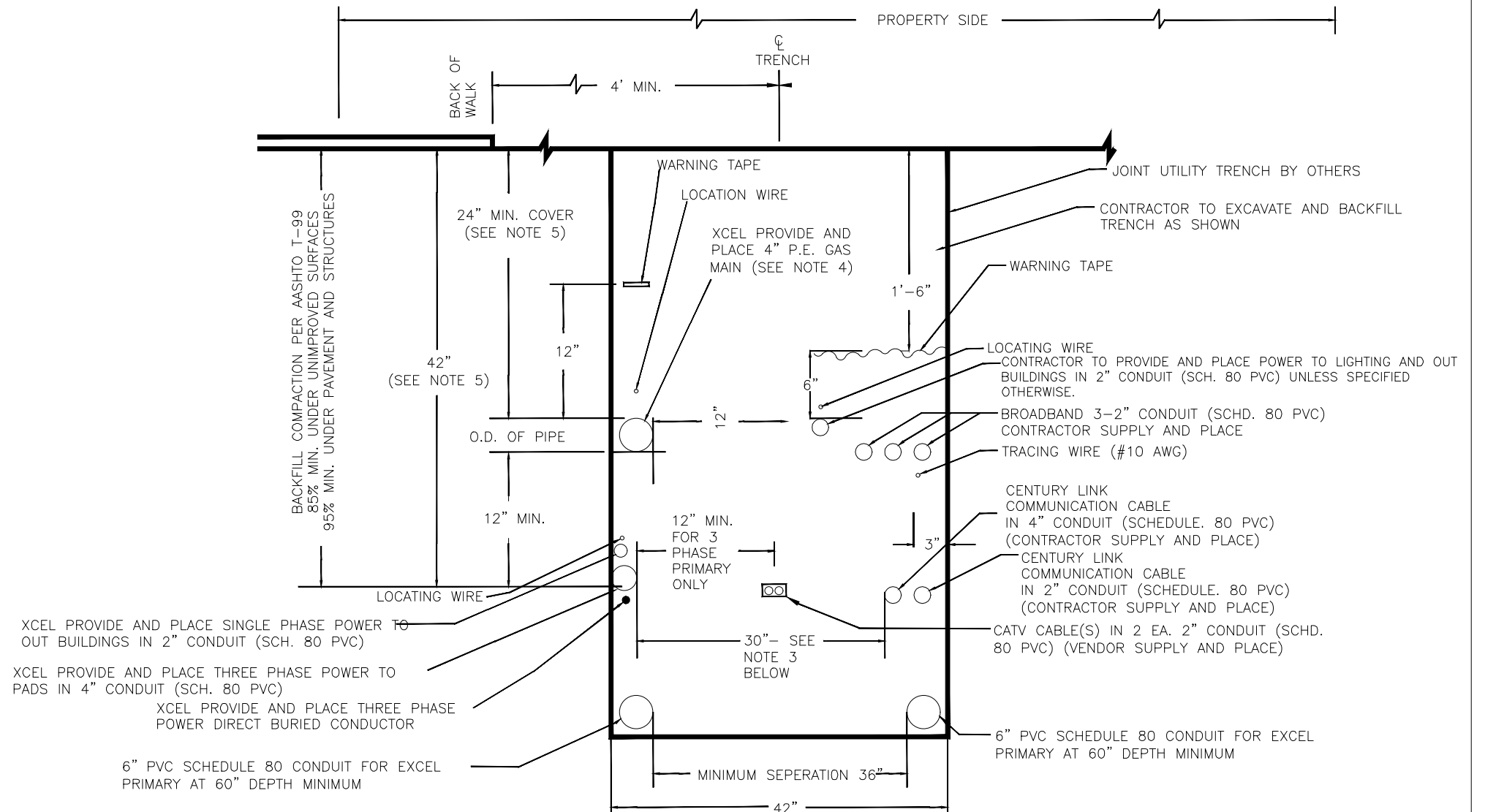


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|---|--------------------------------|--------------------|-------------------------------|---|----------------|---|-------------------------|----------------------------------|
| Print Date: 10/16/2023 | Sheet Revisions | | | Colorado Department of Transportation | AS CONSTRUCTED | HORIZON DR AND G RD ROUNDABOUT ELECTRICAL DETAILS | | Project No./Code SHE M555-034 |
| File Name: | Date: | Comments | Init. | | | No Revisions: | Designer: AJM | |
| Horiz. Scale: AS SHOWN | Vert. Scale: 1 | 11/1/23 | ADDED NEW ENGRAVING FOR FIBER |  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | Revised: | Detailer: AJM | Subset Sheets: 11 of 16 | E11 |
| Unit Information: City of GJ Unit Leader Initials: LF | ACM CONSULTING AND ENGINEERING | PH: (970) 245-7292 | EMAIL: JOELM@ACMengrs.COM | | Void: | Sheet Subset: LIGHTING | | |

GENERAL NOTES:

1. FOR EASE OF CONSTRUCTION AND MAINTENANCE, PRIMARY CABLE SHOULD BE 12" TO 24" FROM COMMUNICATION CABLES. HOWEVER NESC REQUIREMENTS PERMIT "SUPPLY AND COMMUNICATION CABLES TO BE BURIED TOGETHER AT THE SAME DEPTH WITH NO DELIBERATE SEPARATIONS BETWEEN FACILITIES PROVIDED ALL PARTIES ARE IN AGREEMENT."
2. ONLY SINGLE PHASE SUPPLY CABLES CAN BE BURIED AT THE SAME DEPTH WITH NO DELIBERATE SEPARATION WITH COMMUNICATION CABLES. THREE PHASE CABLES MUST BE SEPARATED BY A MINIMUM OF 1 FOOT (REFERENCE NESC 354.D.3A).
3. 30" TRENCH WIDTH SHOULD BE USED WHEN ALL FOUR UTILITIES ARE INCLUDED.
4. STEEL GAS PIPE OR STEEL DUCT IS NOT ALLOWED FOR JOINT TRENCH CONSTRUCTION.
5. WHERE UNDERGROUND UTILITIES CROSS OR ENCROACH INTO CITY STREETS THEY SHALL BE INSTALLED TO A DEPTH PROVIDING 3' MINIMUM COVER BELOW FINISHED GRADE.



TYPICAL COMMON TRENCH DETAIL PROPERTY SIDE

NOT TO SCALE

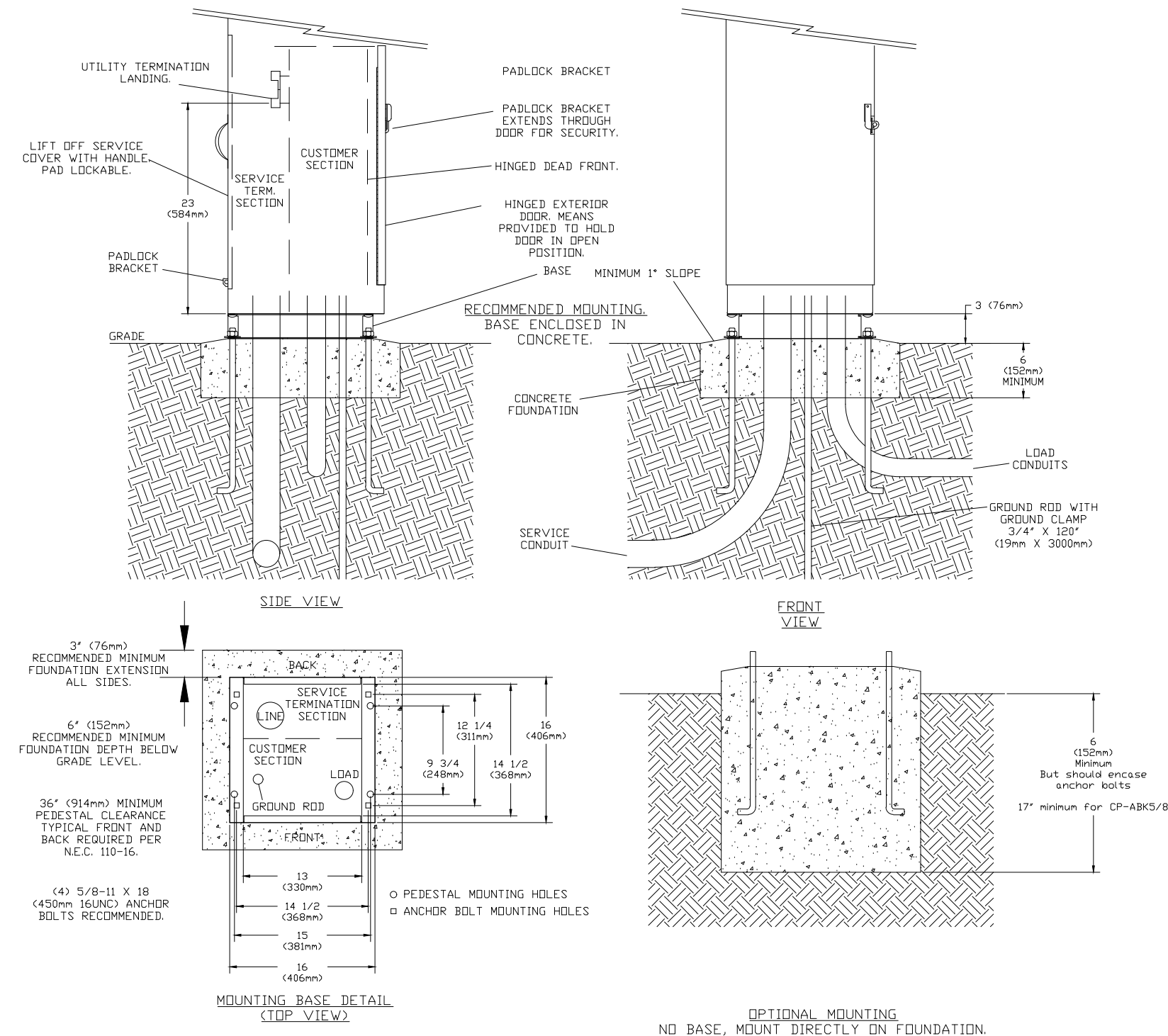


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| Print Date: 10/16/2023 | <table border="1"> <thead> <tr> <th colspan="3">Sheet Revisions</th> </tr> <tr> <th>Date:</th> <th>Comments</th> <th>Init.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | Sheet Revisions | | | Date: | Comments | Init. | | | | | | | Colorado Department of Transportation  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | AS CONSTRUCTED | HORIZON DR AND G RD ROUNDABOUT UTILITY TRENCH DETAIL | Project No./Code | |
|---|--|-----------------|--------------|------------------------|-------------------------|----------|-------|--|--|--|--|--|--|--|----------------|---|------------------|--|
| Sheet Revisions | | | | | | | | | | | | | | | | | | |
| Date: | | Comments | Init. | | | | | | | | | | | | | | | |
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| File Name: | | No Revisions: | SHE M555-034 | | | | | | | | | | | | | | | |
| Horiz. Scale: AS SHOWN | Vert. Scale: 1 | | Revised: | Designer: AJM | Structure Numbers | 23652 | | | | | | | | | | | | |
| Unit Information: City of GJ Unit Leader Initials: LF | ACM CONSULTING AND ENGINEERING | | Void: | Detailer: AJM | | E12 | | | | | | | | | | | | |
| PH: (970) 245-7292 | EMAIL: JOELM@ACMengrs.COM | | | Sheet Subset: LIGHTING | Subset Sheets: 12 of 16 | | | | | | | | | | | | | |

NOTES

- CONTROL CABINET SHALL BE U/L LISTED "INDUSTRIAL CONTROL PANEL" PER UL 508.
- CONSTRUCTION SHALL BE NEMA 3R. 12 GA. A60 STEEL POWDER COATED MINT GREEN WITH PHOTO ELECTRIC CELL IN SERVICE CABINET. ELECTRICAL CONTRACTOR TO PROVIDE PHOTOCCELL.
- VOLTAGE RATINGS OF SERVICE EQUIPMENT SHALL CONFORM TO THE SERVICE VOLTAGES INDICATED ON THE PLANS.
- SERVICE EQUIPMENT ENCLOSURE AND METERING EQUIPMENT SHALL MEET THE REQUIREMENTS OF THE SERVING UTILITY. WHEN THE SERVING UTILITY PROVIDES BOTH METERED AND UN-METERED CIRCUITS, A SEPARATE BUS SHALL BE PROVIDED FOR EACH CIRCUIT. THE METER AREA SHALL HAVE A SEALING, LOCKABLE, RAIN TIGHT COVER THAT CAN BE REMOVED WITHOUT THE USE OF TOOLS.
- SERVICE EQUIPMENT SHALL BE FACTORY WIRED AND CONFORM TO NEMA STANDARDS.
- THE EXTERIOR DOOR SHALL HAVE PROVISIONS FOR PADLOCKING. THE PADLOCK HOLE SHALL BE A MINIMUM DIAMETER OF 11mm.
- ALL TERMINALS FOR INCOMING SERVICE CONDUCTORS SHALL BE COMPATIBLE WITH EITHER COPPER OR ALUMINUM CONDUCTORS SIZED TO SUIT THE CONDUCTORS SHOWN ON THE PLAN. TERMINAL LUGS SHALL BE COPPER OR TIN-PLATED ALUMINUM. SOLID NEUTRAL TERMINAL STRIP SHALL BE RATED 125A UNLESS OTHERWISE SPECIFIED AND FOR USE WITH COPPER OR ALUMINUM CONDUCTORS. THE TERMINAL SHOULD INCLUDE BUT NOT BE LIMITED TO:
 - INCOMING TERMINALS (LANDING LUGS)
 - NEUTRAL LUGS
 - SOLID NEUTRAL TERMINAL STRIP.
 - TERMINAL STRIPS FOR CONDUCTORS WITHIN THE ENCLOSURE.
- AT LEAST 4 STANDARD SINGLE POLE 208V AND 1 SINGLE POLE 120 CIRCUIT BREAKER SPACES (20mm NOMINAL) SHALL BE PROVIDED FOR BRANCH CIRCUITS. CIRCUIT BREAKER INTERIORS SHALL BE COPPER. INTERIORS SHALL ACCEPT PLUG-IN OR CABLE-IN/ CABLE-OUT CIRCUIT BREAKERS.
- PLUG-IN CIRCUIT BREAKERS MAY BE MOUNTED IN THE VERTICAL OR HORIZONTAL POSITION. CABLE-IN/ CABLE-OUT CIRCUIT BREAKERS SHALL BE MOUNTED IN THE VERTICAL POSITION.
- FASTENERS ON THE EXTERIOR OF THE ENCLOSURE SHALL BE VANDAL RESISTANT AND SHALL NOT BE REMOVABLE FROM THE EXTERIOR. ALL NUTS, BOLTS, SCREWS, WASHERS, AND HINGES SHALL BE STAINLESS STEEL.
- PHENOLIC NAME PLATES SHALL BE PROVIDED AS REQUIRED.
- A PLASTIC COVERED WIRING DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
- FOUNDATION SHALL EXTEND 50mm MINIMUM BEYOND EDGE OF ENCLOSURE.
- PANELS TO BE ORIENTED SO THAT PHOTOCCELL WILL BE ORIENTED NORTH, TYPICAL.



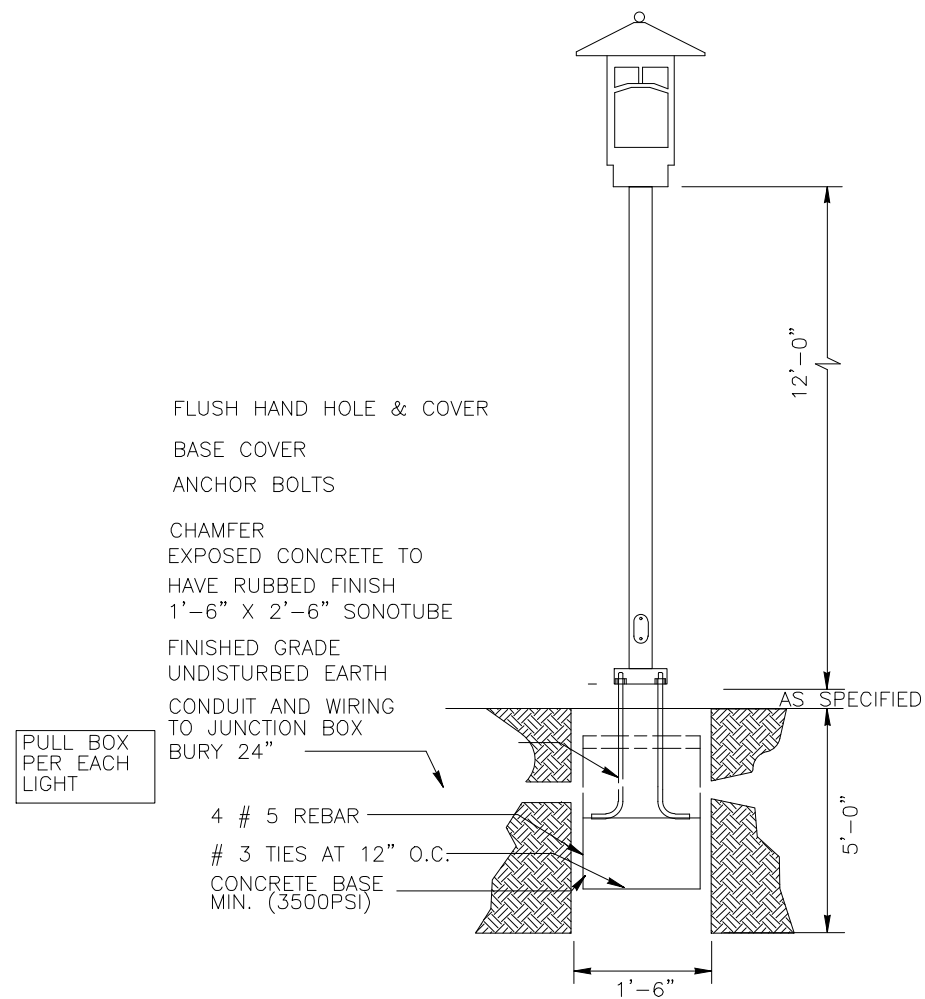
B TYPICAL POWER PEDESTAL/LIGHTING CONTROL CENTER (SPECIAL) PLAN
1 NOT TO SCALE



Know what's below.
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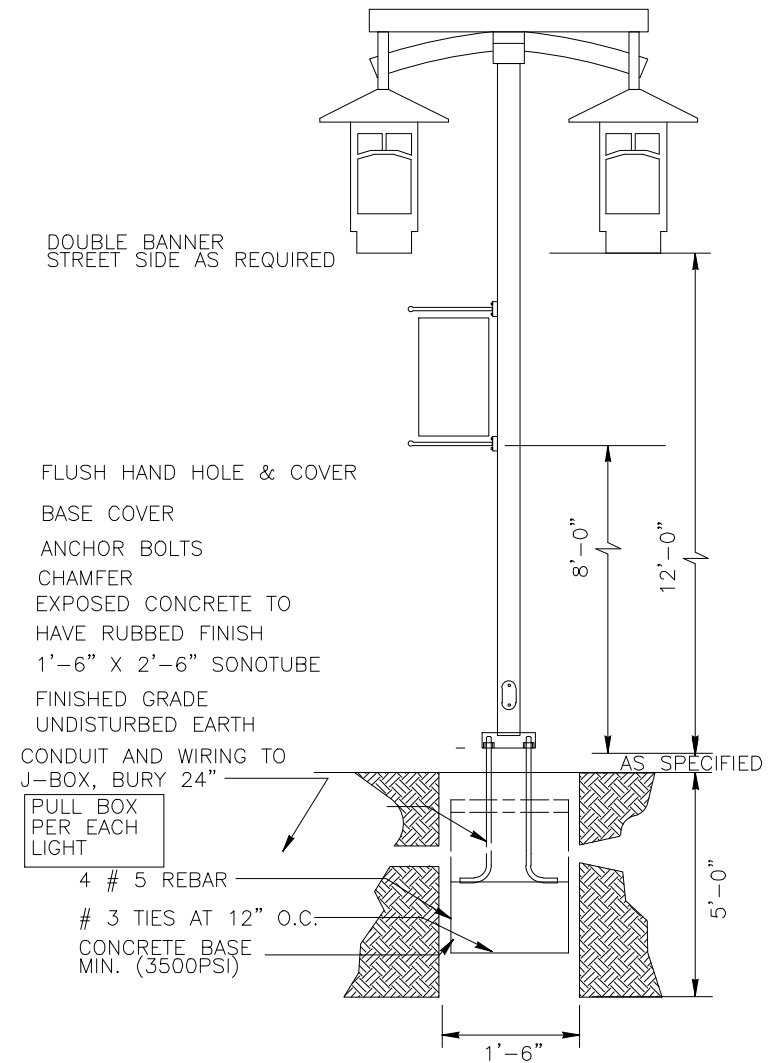
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| Print Date: 10/16/2023 | Sheet Revisions | | | Colorado Department of Transportation | AS CONSTRUCTED | HORIZON DR AND G RD ROUNDABOUT | | Project No./Code |
| File Name: | Date: | Comments | Init. | | No Revisions: | PEDESTAL DETAILS | | |
| Horiz. Scale: AS SHOWN | Vert. Scale: 1 | | | | Revised: | Designer: AJM | Structure Numbers | 23652 |
| Unit Information: City of GJ Unit Leader Initials: LF | ACM CONSULTING AND ENGINEERING | | | | Void: | Detailer: AJM | Subset Sheets: 13 of 16 | E13 |
| PH: (970) 245-7292 | EMAIL: JOELM@ACMengrs.COM | | | Region 3 | | | | |

606 South 9th Street
 Grand Junction, CO, 81501
 Phone: 970-683-6351 FAX: 970-683-6369
 Region 3 RBB



TYPICAL SINGLE POST TOP DETAIL

NOT TO SCALE



TYPICAL DUAL POST TOP DETAIL

NOT TO SCALE

POLE DETAIL NOTES:

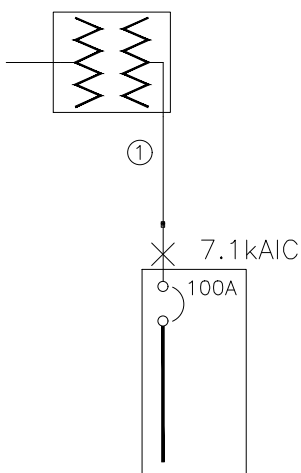
- ORDER 5" SQUARE POLES. POLES TO USE 11" BOLT CIRCLES. OBTAIN POLE MOUNTING TEMPLATE PATTERN FROM MANUFACTURER PRIOR TO ROUGH-IN.
- PROVIDE EACH PEDESTRIAN LIGHT WITH J-BOX. COIL 10' OF WIRE IN JBOX FOR CONNECTION TO FUTURE PEDESTRIAN LIGHTS OR RECEPTACLES.



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| | | | | | | | | | |
|--|--|-----------------|----------|-------|---|----------------|---|------------------------|-------------------------|
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| File Name: | | Date: | Comments | Init. | | No Revisions: | | | SHE M555-034 |
| Horiz. Scale: AS SHOWN Vert. Scale: 1 | | | | | | Revised: | Designer: AJM | Structure Numbers | 23652 |
| Unit Information: City of GJ Unit Leader Initials: LF ACM CONSULTING AND ENGINEERING PH: (970) 245-7292 EMAIL: JOELM@ACMengrs.COM | | | | | | Void: | Detailer: AJM | Sheet Subset: LIGHTING | Subset Sheets: 14 of 16 |

EXISTING PAD MOUNTED
TRANSFORMER 150KVA
208/120 VOLT, 3PH
BY XCEL



NEW "PP1" 100A MCB MILBANK
PEDESTAL CP3B51C1HA22CSXCSL12,
12 UNSWITCHED/12 SWITCHED CKTS
208/120V 1PH, 3W
22 kAIC

① 1 SET(S)[2" PVC SCHED. 80
(3#3(CU,THWN)+1#8(CU)GND)]


ONE-LINE DIAGRAM
NOT TO SCALE

GENERAL NOTES:

1. IN AS MUCH AS DESIGN REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS, AND BECAUSE SOME OF THESE ASSUMPTIONS CANNOT BE VERIFIED. FIELD COORDINATION DURING CONSTRUCTION SERVICES IS IMPERATIVE. CONTRACTORS BIDDING THIS WORK MUST MAKE REASONABLE ALLOWANCES FOR UNFORESEEN CONTINGENCIES.
2. THE SERVING ELECTRICAL ASSOCIATION SHALL ADVISE THE OWNER/ENGINEER PRIOR TO SERVICE MODIFICATION REQUIRING COST TO THE OWNER.
3. REFERENCE CIVIL, LANDSCAPE AND IRRIGATION DRAWING PLANS FOR COORDINATION AND LOCATION OF ALL UNDER GROUND SYSTEMS.
4. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES AS REQUIRED: REFERENCE CIVIL LANDSCAPE AND IRRIGATION DRAWINGS.
5. ALL WIRING IS SHOWN DIAGRAMMATICALLY ON DRAWINGS, FIELD VERIFY ALL CONDITIONS PRIOR TO ROUGH-IN.
6. ALL ELECTRICAL WORK SHALL COMPLY WITH THE LATEST EDITION OF NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES.
7. ALL WIRE TO LIGHTING TO BE #8 UNLESS NOTED OTHERWISE.
8. CONDUCTOR COUNT IS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL ENSURE THAT ANY AND ALL DEVICES AND EQUIPMENT ARE CIRCUITED PROPERLY. CONTRACTOR SHALL ENSURE THAT NO EQUIPMENT OR DEVICES ARE COMBINED OTHER THAN WHAT IS DEPICTED.
9. FIELD VERIFY ALL DIMENSIONS, DO NOT SCALE DRAWINGS.
10. COORDINATE INSTALLATION OF METER AND ELECTRICAL REQUIREMENTS WITH XCEL ENERGY.
11. NEW PEDESTAL MUST MEET ALL XCEL ENERGY REQUIREMENTS I.E. COLD SEQUENCE PADLOCK SLIP LATCH ON METER COVER, HOLD OPEN BAR ON METER HOOD.



Know what's below.
Call before you dig.

| | | | | | | | | | |
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| Print Date: 10/16/2023 | <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> | Sheet Revisions | | | Colorado Department of Transportation  606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | AS CONSTRUCTED | HORIZON DR AND G RD ROUNDABOUT ONE-LINE DIAGRAM | | Project No./Code |
| File Name: | | Date: | Comments: | Init.: | | No Revisions: | | | SHE M555-034 |
| Horiz. Scale: AS SHOWN Vert. Scale: 1 | | | | | | Revised: | Designer: AJM | Structure Numbers | 23652 |
| Unit Information: City of GJ Unit Leader Initials: LF ACM CONSULTING AND ENGINEERING PH: (970) 245-7292 EMAIL: JOELM@ACMengrs.COM | | | | | | Void: | Detailer: AJM | Sheet Subset: LIGHTING | Subset Sheets: 15 of 16 |

PANEL: SCH-PP1 DC DEVICE TYPE: Breaker ENCLOSURE: NEMA 3R MAINS(A): BKR CONTINUOUS(A): 100
 LOCATION: BUS-0003 DEVICE FAMILY: Plug In MOUNTING: Free Standing WIRING: Single-Phase 3-Wire BUS SC RATING(A): 22000
 FED FROM: BUS-0003 VOLTAGE: 208/120 BOUNDARY: 87.48<in> FAULT CURRENT(A): 7102
 INCIDENT ENERGY: 15.01 Cal/cm2 @18.00<in>



| DC AMPS P | NOTES | DESCRIPTION | DEMAND CODE | VA | CKT | PHASE LOADS VA | CKT | VA | DEMAND CODE | DESCRIPTION | NOTES | DC AMPS P |
|-----------------|-------|----------------------|-------------|------|----------------|----------------|--------|------|-------------|---------------|-------|-----------|
| | | | | | | A B C | | | | | | |
| 100 2 | | MAIN | GENERAL | 0 | 1 | 180 | 2 | 180 | GENERAL | CONTROL POWER | | 15 1 |
| " " | | " " | " " | 0 | 3 | 0 | 4 | 0 | SPARE | SPARE | | 20 1 |
| 20 1 | | RECPT-ROUNDAABOUT | RCPT | 1200 | 5 | 1200 | 6 | 0 | SPARE | SPARE | 1 | 20 1 |
| 20 1 | | FUTURE IRRIGATION | GENERAL | 0 | 7 | 800 | 8 | 800 | GENERAL | IRRIGATION | | 20 1 |
| 20 1 | | FUTURE POLICE CAMERA | GENERAL | 0 | 9 | 240 | 10 | 240 | NONE | CROSS-WALK NE | | 20 1 |
| 20 1 | | CROSS-WALK SE | NONE | 240 | 11 | 1040 | 12 | 800 | GENERAL | IRRIGATION | | 20 1 |
| 20 2 | | LTS SE | NONE | 665 | 13 | 1235 | 14 | 570 | NONE | LTS-SW | | 20 2 |
| " " | | " " | " " | 665 | 15 | 1235 | 16 | 570 | " " | " " | | " " |
| 20 2 | | LTS-ROUNDAABOUT | NONE | 600 | 17 | 600 | 18 | | | | | " " |
| " " | | " " | " " | 600 | 19 | 600 | 20 | | | | | " " |
| " " | | " " | " " | 600 | 21 | | 22 | | | | | " " |
| " " | | " " | " " | 600 | 23 | | 24 | | | | | " " |
| ALL CONNECTED | | KVA | MAX PH | AMPS | * PHASE TOTALS | | VA | AMPS | BUS TOTALS | | KVA | |
| TOTAL CONNECTED | | 7.13 | | 35.3 | * A-N | | 3455.2 | 33.2 | CONNECTED | | 7.13 | |
| TOTAL DEMAND | | 7.13 | | 35.3 | * B-N | | 3675.2 | 35.3 | DEMAND | | 7.13 | |
| TOTAL DESIGN | | 7.13 | | 35.3 | * C-N | | 0.0 | 0.0 | DESIGN | | 7.13 | |

FLAG NOTES:

- 1 CIRCUITS 1-12 ARE UNSWITCHED, CIRCUITS 13 - 24 ARE SWITCHED AND CONTROLLED WITH THE CONTRACTOR SUPPLIED PHOTOCELL, TYPICAL.
- 2 ORIENT PEDESTAL SO THAT PHOTOCELL IS ORIENTED IN THE MOST NORTHERLY DIRECTION.



Know what's below.
Call before you dig.

| | | | | | | | | |
|---|------------------------|-------------------------------|-------|---|----------------|---------------------------------|-------------------------|------------------|
| Print Date: 10/16/2023 | Sheet Revisions | | | Colorado Department of Transportation | AS CONSTRUCTED | HORIZON DR AND G RD ROUNDAABOUT | | Project No./Code |
| File Name: | Date: | Comments | Init. | | No Revisions: | PANEL SCHEDULES | | |
| Horiz. Scale: AS SHOWN | 10/30/24 | CROSSWALK FEEDS,PP1-10,PP1-11 | | 606 South 9th Street Grand Junction, CO, 81501 Phone: 970-683-6351 FAX: 970-683-6369 Region 3 | Revised: | Designer: AJM | Structure Numbers | 23652 |
| Unit Information: City of GJ Unit Leader Initials: LF | | | | | Void: | Detailer: AJM | Subset Sheets: 16 of 16 | E16 |
| ACM CONSULTING AND ENGINEERING PH: (970) 245-7292 EMAIL: JOELM@ACMenqrs.COM | | | | | RBB | Sheet Subset: LIGHTING | | |