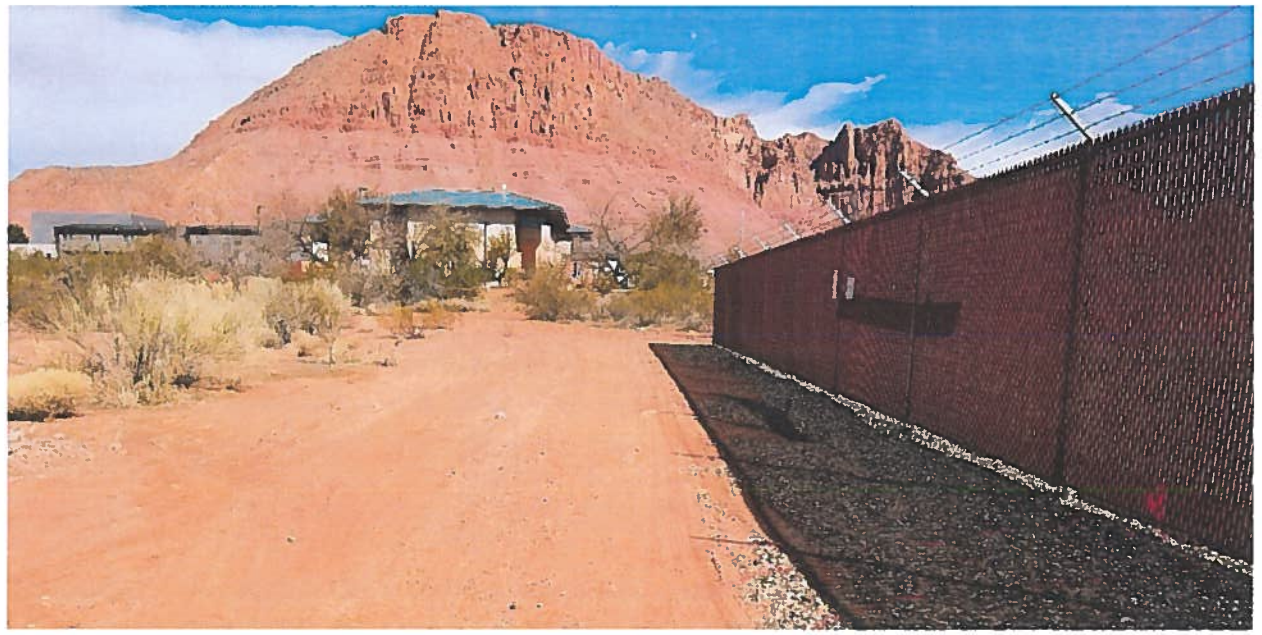
ROCKY MOUNTAIN POWER
A DIVISION OF PACIFICORP

# Ivins Substation – Replace Transformer

**Summary of Work:**
Expand the existing Ivins substation to accommodate a new transformer located approximately 100 North and 200 East, Ivins, UT 84738. Expand the existing fence 65 feet to the south and 37 feet to the west with slatted chain link fencing to match the existing fencing. Install one 30'0" double swing gate and a four foot personal gate. Finish rock will be installed in the expanded area and five feet outside the fence line.

Replace the existing 69-12.5 kV 22.4 MVA transformer at Ivins substation with a new 69-12.5 kV 30 MVA LTC transformer, replace high-side fuses with a new transrupter, replace 69 kV switches, replace circuit breaker 11 and circuit breaker 12 with 1200 amp breakers, and modify low-side bus as needed to accommodate new transformer.

Construction is planned to start late summer 2018 and complete by the end of 2018.



**Purpose/Reason:**
The Ivins #1 69-12.47 kV, 22.4 MVA transformer was loaded to 90.3% (20.22) of thermal capacity during the summer of 2017. With block loads totaling almost 4 MW and a projected load growth in the area of up to 2.1% per year, it is anticipated that the transformer will be at 113.5% capacity by the summer of 2019. Transferring load to another substation through the distribution system is not an option as there are no nearby substations. This Conditional Use Permit will authorize Rocky Mountain Power to replace the transformer with a 69-12.5 kV 30 MVA transformer.

## EXHIBIT "A"

### DESCRIPTION FOR AN ADJUSTED LOT LINE (UTAH POWER & LIGHT CO)

**BEING A PROPERTY DESCRIPTION FOR A PROPOSED LOT LINE ADJUSTMENT, FOR A PROPERTY LOCATED WITHIN LOT 5 BLOCK 13 OF THE ST. GEORGE AND SANTA CLARA BENCH IRRIGATION COMPANY SUBDIVISION, AND THE NW 1/4, NE 1/4, NW 1/4 OF SECTION 5, TOWNSHIP 42 SOUTH, RANGE 16 WEST, SALT LAKE BASE AND MERIDIAN, WASHINGTON COUNTY, UTAH; SAID PROPERTY BEING MORE PARTICULARLY DESCRIBED BY METES AND BOUNDS AS FOLLOWS;**

**COMMENCING** at the northwest corner of section 5, Township 42 South, Range 16 West, SLBM, a found ring and lid street monument, from which the north quarter of said section 5, a found ring and lid street monument, bears S89°31'42"E, 2,776.39 Feet; thence S78°01'18"E, 1,934.32 Feet to the northwest corner of said property, and the **POINT OF BEGINNING;**

Thence, over and across said Lot 5, the following courses and distances:

S89°39'36"E, 182.00 Feet to a point on the east boundary of Lot 5; thence S01°13'42"W along said east boundary, 238.99 Feet to a point; thence continuing along east boundary S00°53'22"W, 49.87 Feet to the southeast corner of Lot 5, Block 13; thence N89°38'51"W along the south boundary of Lot 5, 182.30 Feet to a point; thence N01°13'42"E departing said south boundary, 288.82 Feet to the **POINT OF BEGINNING**

Said property contains **52,571** SQFT, or **1.21** Acres, more or less

Notes:

1) For additional information, see attached easement plat (Exhibit "B") made in conjunction with and considered an integral part of the above described easement.
2) Bearings shown hereon are grid bearings and are based on Utah State Plane Coordinate System, South Zone (4303), NAD83(2011) Geoid 12B. Distances shown hereon are grid values based on said horizontal datum, measured in U.S. Survey Feet.
3) This description and the attached easement plat (Exhibit "B") were prepared for the purposes of creating an easement and are not intended for use as a property boundary survey.
4) Record information shown hereon is based upon a public records search performed by a title company.
5) Date of Survey: 12/18/2017

PROFESSIONAL LAND SURVEYOR
No. 6853512-2201
TYLER GENE TRUJILLO
STATE OF UTAH

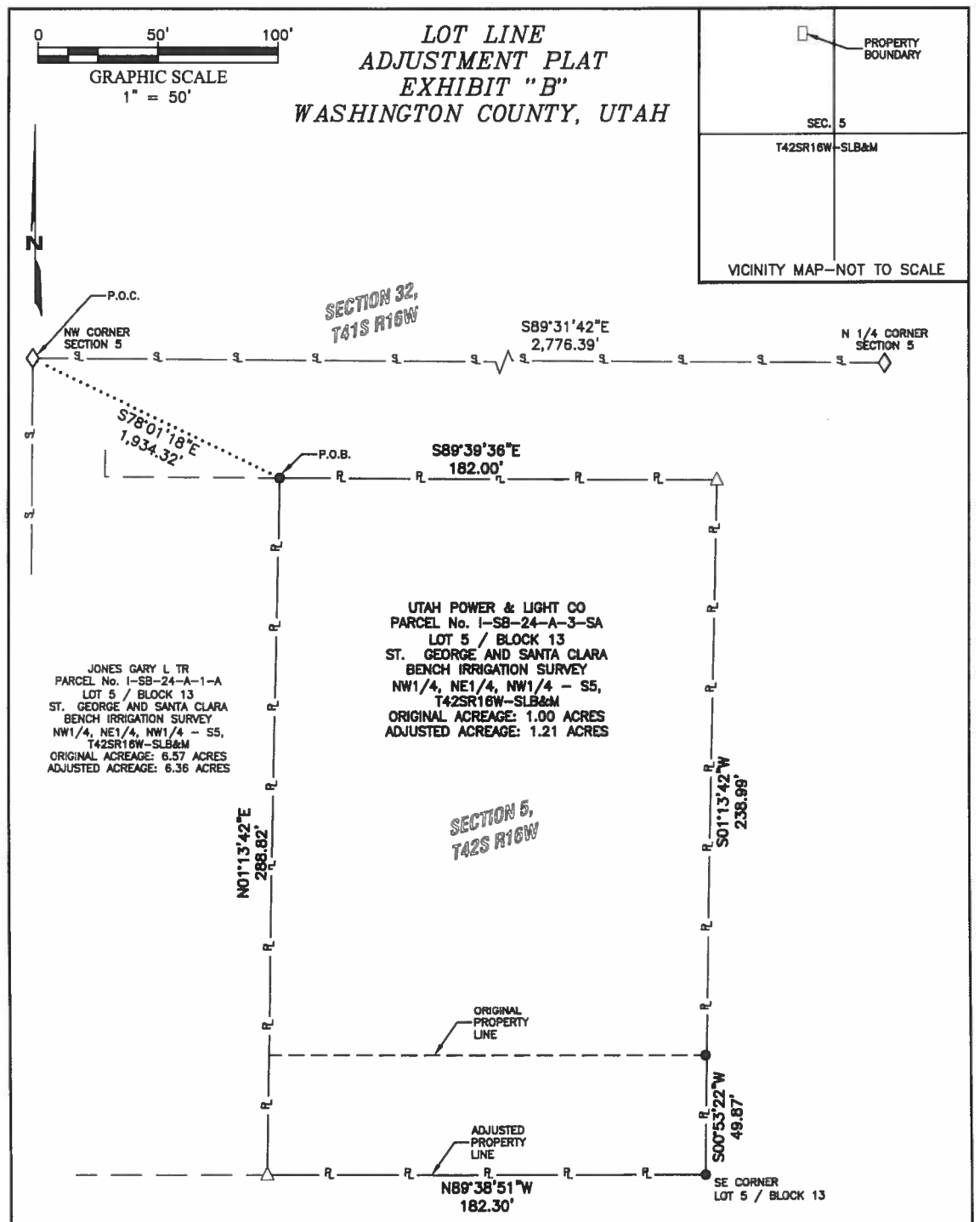
12-29-17

Tyler Gene Trujillo Date
Registered Professional Land Surveyor
6853512-2201

Surveying And Mapping, LLC
4801 Southwest Parkway
Building Two, Suite 100
Austin, Texas 78735
Tx. Firm Reg. No. 10064300

FN38252

# LOT LINE ADJUSTMENT PLAT EXHIBIT "B" WASHINGTON COUNTY, UTAH




NOTES:

1. ALL BEARINGS ARE GRID BEARINGS AND ARE BASED ON UTAH STATE PLANE COORDINATE SYSTEM, SOUTH ZONE (4303), NAD83 (2011). ALL DISTANCES ARE REPRESENTED IN GRID VALUES, MEASURED IN U.S. SURVEY FEET, AND ARE BASED ON SAID HORIZONTAL DATUM.
2. FOR ADDITIONAL INFORMATION, SEE ATTACHED LEGAL DESCRIPTION MADE IN CONJUNCTION WITH AND CONSIDERED AN INTEGRAL PART OF THIS PLAT FOR A LOT LINE ADJUSTMENT.
3. THIS PLAT AND THE ATTACHED DESCRIPTION WERE PREPARED FOR THE PURPOSES OF SUPPORTING A LOT LINE ADJUSTMENT BETWEEN PARCEL No. I-SB-24-A-1-A AND I-SB-24-A-3-SA, OF PARCEL IDENTIFICATION NUMBERS PER THE WASHINGTON COUNTY, UT RECORDS.

12-29-17
DATE

TYLER GENE TRUJILLO
REGISTERED PROFESSIONAL LAND SURVEYOR
6853512-2201

PROFESSIONAL LAND SURVEYOR
No. 6853512-2201
TYLER GENE TRUJILLO
STATE OF UTAH

| | |
|---|---|
| R | ADJUSTED PROPERTY LINE |
| S | SECTION LINE |
| | ADJOINER PROPERTY |
| | ORIGINAL PROPERTY LINE |
| | FLYTIE |
| ◇ | RING AND LID STREET MONUMENT FOUND |
| ● | PROPERTY CORNER FOUND |
| △ | CALCULATED POINT |
| P.O.B. | POINT OF BEGINNING |
| P.O.C. | POINT OF COMMENCEMENT |

PROJECT: MWS SUBSTATION SURVEY
JOB NUMBER: 42018
SURVEY DATE: 12/18/2017
SURVEYOR: T. TRUJILLO
TECHNICIAN: P. WISMAN
DRAWING: UTAH POWER & LIGHT.DWG
TRACT ID: UTAH POWER & LIGHT

SHEET 2 OF 2

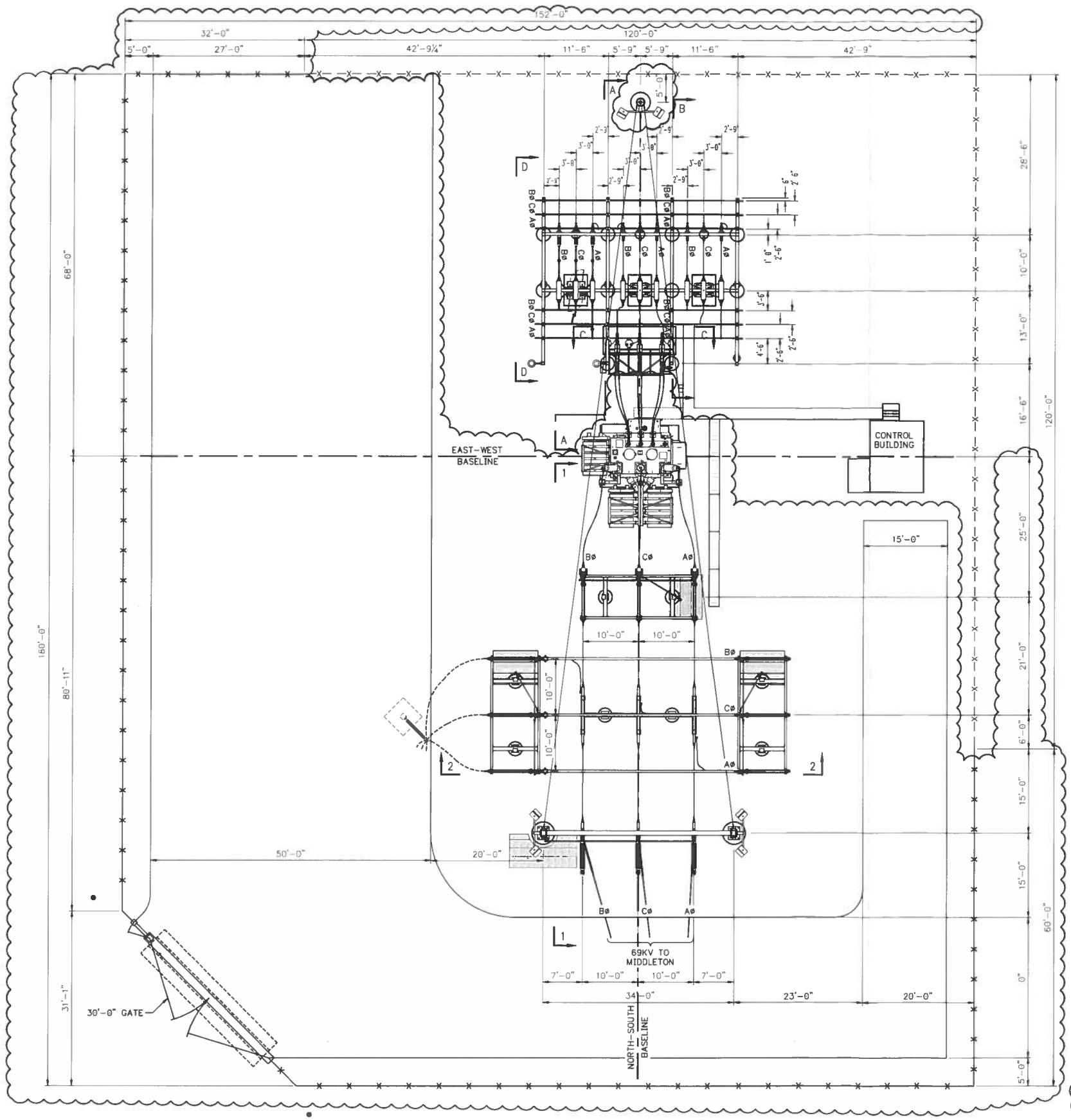
PACIFICORP
A BERKSHIRE HATHAWAY ENERGY COMPANY

SAM®
SURVEYING-AERIAL MAPPING-ENGINEERING
4801 Southwest Parkway Bldg. Two, Suite 100 Austin Texas, 78735
Phn 512.447.0575 Fax: 512.326.3029 email: info@sam.biz
Texas Firm Registration No. 10064300

PACIFICORP
LOT LINE ADJUSTMENT FOR
THE UTAH POWER & LIGHT CO TRACT
WASHINGTON COUNTY, UTAH

PATH: z:\1017042015\100\SURVEY\06PLATS\UTAH POWER & LIGHT.DWG
TRUJILLO 12/29/2017 10:51 AM
WORD: FN38282


E 200 S
S 400 E
E 170 S
E 130 S
E 100 S
S 320 E
E 60 S
E 20 S
Megan Park
E Center St
Ivins Substation
SUBJECT PROPERTY
E 100 S
S 100 E
E Center St
N 100 E
N 200 E




PRELIMINARY
03/30/2018

0 10' 20'
SCALE IN FEET
3/32"=1'-0"

PARTIALLY REDRAWN ON CAD 1-30-98

## AVIAN PROTECTION NOTES

1. PROVISIONS MUST BE BE MADE TO ALLOW PROPER GROUNDING OF SUBSTATION EQUIPMENT AND BUSWORK. GENERALLY, A MINIMUM LENGTH OF 6" OF NON-COVERED BUS SHALL BE MAINTAINED. GAPS IN HOSE SHOULD BE STAGGERED TO MAINTAIN MINIMUM SEPARATION.
2. AVIAN AND ANIMAL ENHANCEMENT MUST PROVIDE A MINIMUM SEPARATION OF 30" VERTICAL CLEARANCE AND 46" HORIZONTAL CLEARANCE.
3. WHEN FIELD CUTTING COVERS TO FIT CONNECTIONS, ENSURE THAT NO LARGE OPENINGS EXIST. THIS CAN BE ACCOMPLISHED BY CUTTING PRECISE HOLE, OR BY CUTTING SLITS RATHER THAN HOLES.
4. USE A PUNCH OR OTHER TOOL TO CREATE WEEP HOLES IN THE BOTTOM OF COVERS TO ALLOW DRAINAGE.

## REFERENCE DRAWINGS

| | |
|---|---|
| 99757 | DRAWING LIST |
| 96209 | ONE LINE DIAGRAM |
| 99762 | PLANS & ELEVATIONS |
| 188612 | PLANS & ELEVATIONS (2018) |

| NO. | DATE | REVISIONS | ENGINEER | DES./ DR. | CHECKED | APPROVED |
|---|---|---|---|---|---|---|
| 2 | 08/25/09 | WO# 10837528 #13 NEW CIRCUIT BREAKER | T. BYRNE/MLP | M.CASADOS/MLP | T. BYRNE/MLP | R.JAROOLA/MLP |
| 3 | 07/27/12 | WO# 16983855 AS-BUILT UPDATE PHASE LABELS | | M. RIDGE | R. BURBACH | J. BELL |
| 4A | 02/13/18 | WO# 10863512 REPLACE TRANSFORMER, ADD TRANSRUPTER & REPLACE CB11 & CB12 RELAYS | D. SOUTH/ECI | J. MARDSTICA/ECI | D. BRANDT/ECI | B. LAMERES/ECI |

PACIFICORP
A SUBSIDIARY OF PACIFIC POWER

ELECTRICAL

PROJ/DSN# 10902944 — DISCIPLINE ENG. GARY W. REAKES
PJ# 017174 — PROJECT ENG.
DATE: 07/06/2009 — APPROVAL ENG. JOSEPH F. BELL
ENG. CHK'R DES. CHK'R
DR. MLT DR. JFB
SCALE: (½"=1'-0")

IVINS SUBSTATION
WASHINGTON COUNTY, UTAH
GENERAL PLAN

SHEET 1 OF 1

99762S01

REVISION 4A

PLOTTED: 3/30/2018 4:28 PM

FILE LOCATION: L:\PacifiCorp\RMP-249 [Ivins\06 Project Dwgs\05 Physical\99762S01 SAVED BY:(FANSARI) 3/30/2018 12:46 PM PLOTTED BY:(FAISAL ANSARI) 3/30/2018 4:28 PM

ATTACHED XREFS: X06DV7LB.DWG, 99762S06D.XE.DWG

FILE LOCATION=L:\Vaudcorp\MAP-249 Ivans\06 Project Depot\06 Grading\Grading SAVED BY:(AMARKOSTICA) 2/13/2018 3:41 PM PLOTTED BY:(JILL M. MARKOSTICA) 2/13/2018 3:18 PM

REVISED 02/02/18 TO HARLEY

PRELIMINARY
02/13/2018

## CIVIL SPECIFICATION SECTIONS:

- 02030 FENCE REMOVAL
- 02110 CLEARING AND GRUBBING
- 02111 DUL CONTAINMENT LINED BERMS
- 02120 SITE GRADING
- 02121 GENERAL EXCAVATION AND BACKFILL
- 02134 ROAD FINISH ROCK
- 02130 AGGREGATE BASE COURSE
- 02275 GEOTEXTILES
- 02910 SEEDING AND EROSION CONTROL
- 02950 SOIL STERILIZATION

## REFERENCE DRAWINGS

UD-75514-04 SITE GRADING AND FENCING PLAN
9975850I SPCC PLAN
142059 FOUNDATION PLAN

## LEGEND

CONTROL POINT
GRADING POINT MARKER
POWER POLE
BASE LINE
LIMITS OF GRADING
EDGE OF ROAD
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR
MAJOR CONTOUR
MINOR CONTOUR
CHAIN LINK FENCE W/ BARB
EXISTING FENCE
FENCE DEMO
EROSION CONTROL SILT FENCE
EXISTING OVERHEAD POWER LINE
ROAD ROCK
YARD ROCK
AGGREGATE BASE COURSE
STRUCTURAL FILL
EXISTING CONCRETE FOUNDATION

## GRADING PLAN

SCALE IN FEET 1"=20'

EXISTING GUY WIRE (TYP)
EXISTING POWER POLE (TYP)
PROPERTY LINE
EDGE OF YARD ROCK (TYP)
LIMITS OF GRADING
EXISTING OVERHEAD POWER
ELECTRIC MANHOLES
HOLD FOR ADDITIONAL EXISTING GROUND DATA
EXISTING ROAD
MATCH EXISTING GRADE
LIMITS OF GRADING
SPCC BERM
36' DOUBLE SWING GATE
GATE APRON
YARD ROCK PER DETAIL 2 (TYP)
4' GATE
LIMITS OF GRADING
YARD EXPANSION
LIMITS OF GRADING
EXISTING FENCE AND GATES TO BE REMOVED
SPCC BERM
FIELD VERIFY
NEW FOUNDATION (TYP)
EXISTING ROAD
NEW CABLE TRENCH
EAST-WEST BASELINE
EXISTING FENCE TO REMAIN
EXISTING FENCE OF YARD ROCK
EXISTING FENCE TO REMAIN
EXISTING FOUNDATION TO REMAIN (TYP)
LIMITS OF GRADING MATCH EXISTING GRADE
NORTH-SOUTH BASELINE
ROAD ROCK PER DETAIL 1 (TYP)
EXISTING EDGE OF YARD ROCK
LIMITS OF GRADING EDGE OF YARD ROCK
PROPERTY LINE
YARD EXPANSION
182.34'
182.66'
120.26'
59.65'
60.61'
145.89'
179.83'
91.48'
120.11'
31.94'
152.11'
54.70'
65.00'
60.00'
288.94'
286.91'
N

## DETAIL 1

SCALE: ¾"=1'-0"

TYPICAL ROAD SECTION
UNDISTURBED SUB-GRADE OR COMPACTED STRUCTURAL FILL PER SPEC. SECTION 02121
AGGREGATE BASE COURSE SPEC. SECTION 02130
1'-0"
ROAD FINISH ROCK SPEC. SECTION 02134 (SEE PLAN)
F.G. ELEV.
6"

## DETAIL 2

SCALE: ¾"=1'-0"

TYPICAL YARD SECTION
6" MIN
UNDISTURBED SUB-GRADE
COMPACTED STRUCTURAL FILL PER SPEC. SECTION 02121 AS REQUIRED
YARD FINISH ROCK SPEC. SECTION 02132 (SEE PLAN)
F.G. ELEV.
45°

## SECTION A–A

SCALE: NONE

SPEC. BERM DETAIL
4" YARD ROCK
GEOMEMBRANE PER SPEC SECTION 02211
SUBSTATION ROAD
2:1 SLOPE
2:1 SLOPE
1.00'
4.00'
6.00'
SUBSTATION FENCE

## SECTION B–B

SCALE: ¾"=1'-0"

GATE APRON
EXISTING ROAD
CONCRETE APRON
COMPACTED ROAD ROCK
10:1 SLOPE, B.S.
4" ABOVE EXISTING GRADE

## GRADING DRAWING NOTES

ESTIMATED QUANTITIES
EARTHWORK QUANTITIES ARE ESTIMATES ONLY. CONTRACTOR TO CALCULATE THEIR OWN BID QUANTITIES. ESTIMATED QUANTITIES ARE IN BANK CUBIC YARDS WITH NO ALLOWANCE FOR SHRINK OR SWELL.

QUANTITIES DO NOT INCLUDE EXCAVATED OR FILL MATERIAL FOR FOUNDATION WORK.

- LIMITS OF CONSTRUCTION (DISTURBED AREA)
- TOPSOIL (ORGANICS) REMOVAL
- EXPORTED OR STOCKPILED SOIL
- IMPORTED FINISH ROAD ROCK
- IMPORTED FINISH YARD ROCK
- IMPORTED AGGREGATE BASE COURSE
- IMPORTED STRUCTURAL FILL

HOLD

LAYOUT:

1. THE BASELINES SHALL BE ESTABLISHED AS SHOWN, AND THE EAST–WEST BASELINE SHALL BE PERPENDICULAR TO THE NORTH–SOUTH BASELINE.
2. THE BASIS OF HORIZONTAL AND VERTICAL CONTROL IS SHOWN ON SHEET 1. THE CONTROL POINT WITH COORDINATES AND ELEVATIONS IS ALSO SHOWN ON SHEET 1. THE CONTRACTOR IS RESPONSIBLE FOR SETTING PROJECT BENCHMARKS AS REQUIRED FROM THE SURVEY MONUMENTS, AND SHALL PROTECT ALL MONUMENTS FROM DISTURBANCE THROUGHOUT CONSTRUCTION. IF ANY MONUMENTS ARE DISPLACED THEY SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
3. COORDINATE SYSTEM USED IS UTM WITH NAD83 DATUM, ZONE 12, US FOOT: CENTRAL MERIDIAN 111D W.
4. ALL RADII OF INTERNAL ROADWAYS ARE 5 FEET UNLESS OTHERWISE NOTED.

GRADING UNLESS OTHERWISE DESIGNATED:

1. PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL OBTAIN A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) GENERAL PERMIT OR NOTICE OF INTENT (NOI) TO BE POSTED ON SITE. THE CONTRACTOR SHALL IMPLEMENT THE BEST MANAGEMENT PRACTICES (BMP'S) AS DEFINED IN THE SWPPP.
2. IF STORM WATER STRUCTURES (SUCH AS DITCHES, PONDS, CATCH BASINS, PIPES, ETC.) ARE INCLUDED IN THE DESIGN OF THE PROPOSED SUBSTATION, THEY SHALL BE INSTALLED AND/OR CONSTRUCTED TO A FINISHED STATE AS SOON AS PRACTICAL IN ORDER TO CONVEY RUNOFF DURING CONSTRUCTION AND TO PREVENT EROSION.
3. THE TOP LAYER OF UNSUITABLE ORGANIC TOPSOIL WITHIN THE GRADING LIMITS SHALL BE STRIPPED TO A MINIMUM DEPTH OF SIX (6) INCHES. AFTER THE SITE HAS BEEN GRADED TO SUB-GRADE THE SITE SHALL BE PROOF-ROLLED WITH A LOADED DUMP TRUCK (WITH 90 P.S.I. TIRE PRESSURE). SOILS THAT ARE OBSERVED TO RUT OR DEFLECT GREATER THAN ONE INCH UNDER THE MOVING LOAD OF THE LOADED DUMP TRUCK SHALL BE STRIPPED TO FIRM, UNDISTURBED SOIL AND REPLACED WITH AN APPROVED BACKFILL PER SPECIFICATIONS.
4. EXCAVATED SOIL THAT CANNOT BE USED FOR FILL OR LANDSCAPING SHALL BE DISPOSED OF OFF-SITE UNLESS PRE-APPROVED TO STOCKPILE AT AN APPROVED LOCATION. TOPSOIL THAT WILL BE USED FOR SEED BEDDING SOIL SHALL BE TEMPORARILY STOCKPILED. RE-SEED ALL CUT AND FILL SLOPES OUTSIDE OF THE SUBSTATION PER NOTE 14.
5. ELEVATIONS SHOWN ON THE GRADING PLAN ARE FINISHED GRADE ELEVATIONS (UNLESS NOTED OTHERWISE), WHICH IS DEFINED AS THE TOP OF FINISH ROCK WHERE YARD AND ROAD ROCK IS SHOWN. THE SUB-GRADE ELEVATIONS ARE BELOW THE FINISH ROCK, WHICH IS THE TOP OF PIT RUN ROCK, STRUCTURAL BACKFILL, AGGREGATE BASE OR UNDISTURBED EARTH. ALL GRADES SHALL BE COMPACTED AS REQUIRED IN THE SPECIFICATIONS. SEE THE TYPICAL SECTIONS AND DETAILS SHOWN ON SHEET 3.
6. THREE (3) INCH COMPACTED THICKNESS OF BASE ROCK SHALL BE PLACED OVER THE SUBSTATION YARD AREA SUB-GRADE FOR A CONSTRUCTION PAD IF WEATHER WARRANTS.
7. CUT AND FILL SLOPES SHALL BE AT A MAXIMUM SLOPE OF 2:1.
8. NATIVE BACKFILL RG-1 (IF APPROVED FOR USE) AND IMPORTED STRUCTURAL FILL RG-2 SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER ASTM D-1557. SEE SITE GRADING SPECIFICATION, SECTION 02120.
9. FINISH ROCK SHALL NOT BE INSTALLED UNTIL ALL UNDERGROUND CONDUITS, GROUNDING AND UTILITIES ARE INSTALLED AND TRENCHES ARE BACKFILLED.
10. ALL AREAS NOT DESIGNATED AS ROADWAYS WITHIN THE SUBSTATION, AND THE FIVE (5) FOOT SHOULDER ADJACENT TO AND OUTSIDE OF THE SUBSTATION FENCE, SHALL RECEIVE FOUR (4) INCHES OF YARD FINISH ROCK. THERE SHALL BE A MINIMUM OF SIX (6) INCHES OF NATIVE RG-1 OR IMPORTED STRUCTURAL FILL RG-2 TO REPLACE THE SUB-GRADE IF IT IS UNSUITABLE AND CANNOT MEET COMPACTION REQUIREMENTS AFTER PROOF-ROLLING. SEE TYPICAL SECTION ON DETAIL SHEET.
11. ALL AREAS DESIGNATED AS NEW ROADWAY SHALL HAVE TWELVE (12) INCHES OF AGGREGATE BASE COURSE AND SIX (6) INCHES OF ROAD FINISH ROCK. SEE TYPICAL SECTION ON DETAIL SHEET.
12. AGGREGATE BASE COURSE AND FINISH ROAD ROCK SHALL BE COMPACTED TO 95% OF MAXIMUM DRY DENSITY PER ASTM D-1557. SEE SPECIFICATIONS FOR DETAILS.
13. FOR GEOTECHNICAL INFORMATION REFER TO THE GEOTECHNICAL ENGINEERING REPORT PREPARED BY
14. DISTURBED SLOPES OUTSIDE OF THE SUBSTATION AREA SHALL HAVE A CULTIVATED SURFACE SOIL OR ADEQUATE GROWING MEDIUM IN A CONDITION FAVORABLE FOR SEED GROWTH. REMOVE ALL ROCKS, WEEDS, DEBRIS AND MATTER DETRIMENTAL TO SEED GERMINATION AND GROWTH. THE SEED MIXTURE SHALL INCLUDE A VARIETY OF GRASSES WHICH ARE SUITABLE TO THE LOCAL CLIMATE, AND SHALL BE SUPPLIED BY A STATE CERTIFIED SEED VENDOR. THE SEED AND FERTILIZER SHALL BE APPLIED AS RECOMMENDED BY THE SEED SUPPLIER. IF MULCH IS USED IT SHALL BE FREE OF NOXIOUS WEED SEEDS AND PLANTS, AND IT SHALL BE PROCESSED TO HAVE THE ABILITY TO COVER AND HOLD GRASS SEED IN CONTACT WITH THE SOIL. THE CONTRACTOR SHALL USE HYDRO-SEEDING TECHNIQUES, OR AN APPROVED EQUIVALENT, TO APPLY THE SEED AND MULCH. IF VEGETATION CANNOT BE ESTABLISHED DUE TO THE CLIMATE CONDITIONS THEN BLANKETS SHALL BE INSTALLED ON SIDE SLOPES THAT ARE VULNERABLE TO EROSION (SEE DETAILS ON SHEET 4). ALL SEEDS AND APPLICATION TECHNIQUES SHALL BE PRE-APPROVED. SEE ALSO NOTES ON THE LANDSCAPING PLAN.

HOLD

| NO. | DATE | DESCRIPTION | BY |
|---|---|---|---|
| 0A | 02/1/18 | MOV 1988350 EXPAND SUBSTATION 65.0 TO THE SOUTH AND 37.0' TO THE WEST | D. SOUTH/ECI |

ENGINEER: D. SOUTH/ECI | DES./ DR.: J. MARKOSTICA/ECI | CHECKED: D. BRANDT/ECI | APPROVED: B. LAWRENCE/ECI

PACIFICORP — A SUBSIDIARY OF PACIFICORP ENERGY COMPANY

CIVIL

| | |
|---|---|
| PROJ/BM | |
| Rpt #/T/T74 | |
| DATE | 02/13/2018 |
| DWG. BY | S. SMITH/ECI |
| DES. & DR. | J. MARKOSTICA/ECI |
| SCALE | AS NOTED |

| | |
|---|---|
| DESCRIPTION ENG. | DAVID SOUTH/ECI |
| PROJECT ENG. | DAVID BRANDT/ECI |
| APPROVAL ENG. | BRUCE LAWRENCE/ECI |

PRELIMINARY SITE DEVELOPMENT – 2018 YARD EXPANSION

187588.001

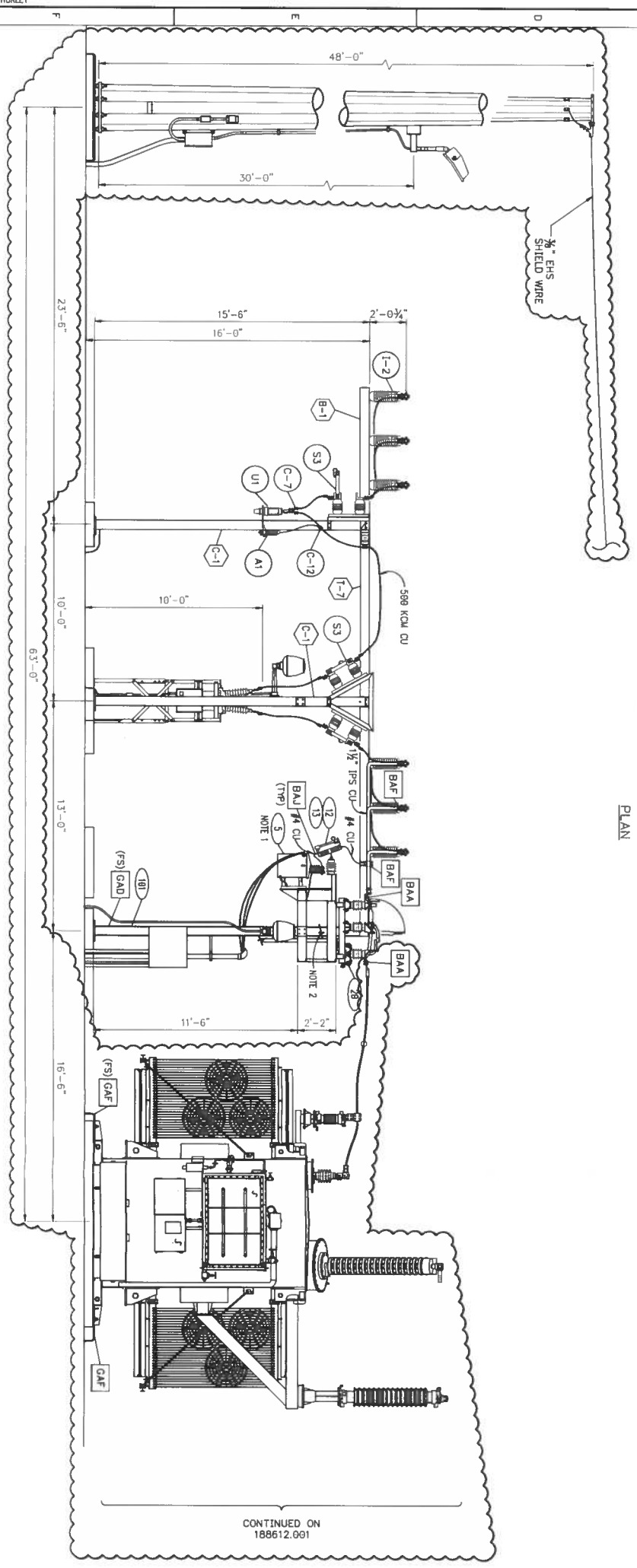
SHEET 1 OF 1

REVISION 0A

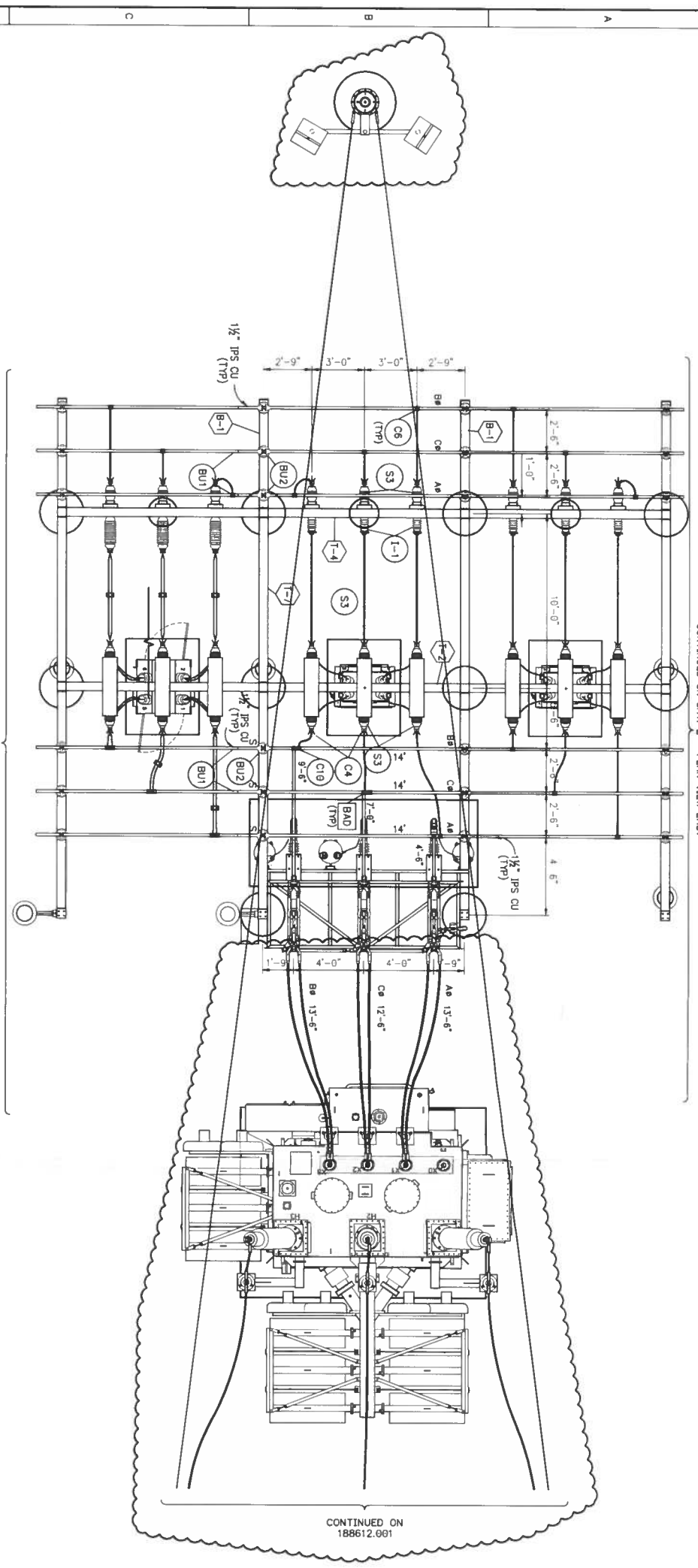
IVINS SUBSTATION
WASHINGTON COUNTY, UTAH
GRADING PLAN

REVISED 05/02/14 D. HURLEY

FILE LOCATION:L:\PacifiCorp\RWP-249 Livra\06 Project Dwgs\05 Physical\99752S01 SAVED BY:(FAWSARI) 3/30/2018 6:51 PM PLOTTED BY:(FAISAL ANSARI) 3/30/2018 6:58 PM




SECTION A-A




PLAN

CONTINUED ON SHT. 2 - PLAN VIEW WEST

CONTINUED ON SHT. 2 - PLAN VIEW EAST

## NOTES & LEGEND:

- BAA — INDICATES BUS CONNECTION DETAIL SHOWN ON 99763.
- CAA — INDICATES CONDUIT & CABLE DETAIL SHOWN ON 99767.
- GAA — INDICATES GROUNDING DETAIL SHOWN ON 99764.
- (XXXX) — INDICATES ITEM NUMBER SHOWN ON BILL OF MATERIAL DWG 99761
- ⟨B-1⟩ — INDICATES ITEM NUMBER SHOWN ON EXIST'G BILL OF MATERIAL
- (S3) — INDICATES ITEM NUMBER SHOWN ON EXIST'G BILL OF MATERIAL

1. EXISTING 10KVA STATION SERVICE TRANSFORMER AND FUSES RELOCATED TO OPPOSITE SIDE ON FEEDER STRUCTURE.
2. TOP OF STRUCTURE NOT SHOWN FOR CLARITY.

SCALE IN FEET
¼"=1'-0"
0 5' 10'

N

## REFERENCE DRAWINGS

| | |
|---|---|
| 99757 | DRAWING LIST |
| 99761 | BILL OF MATERIALS |
| 99762 | GENERAL PLAN |
| 99763 | BUS CONNECTION DETAILS |
| 99765 | GROUNDING DETAILS |

REDRAWN ON CAD FROM DWG. NO. 76514S07 THRU S10.

ATTACH'D SHEET % 99752S02 XC.DWG, 3/30/2018 6:58 PM

IVINS SUBSTATION
WASHINGTON COUNTY, UTAH
PLANS & ELEVATIONS

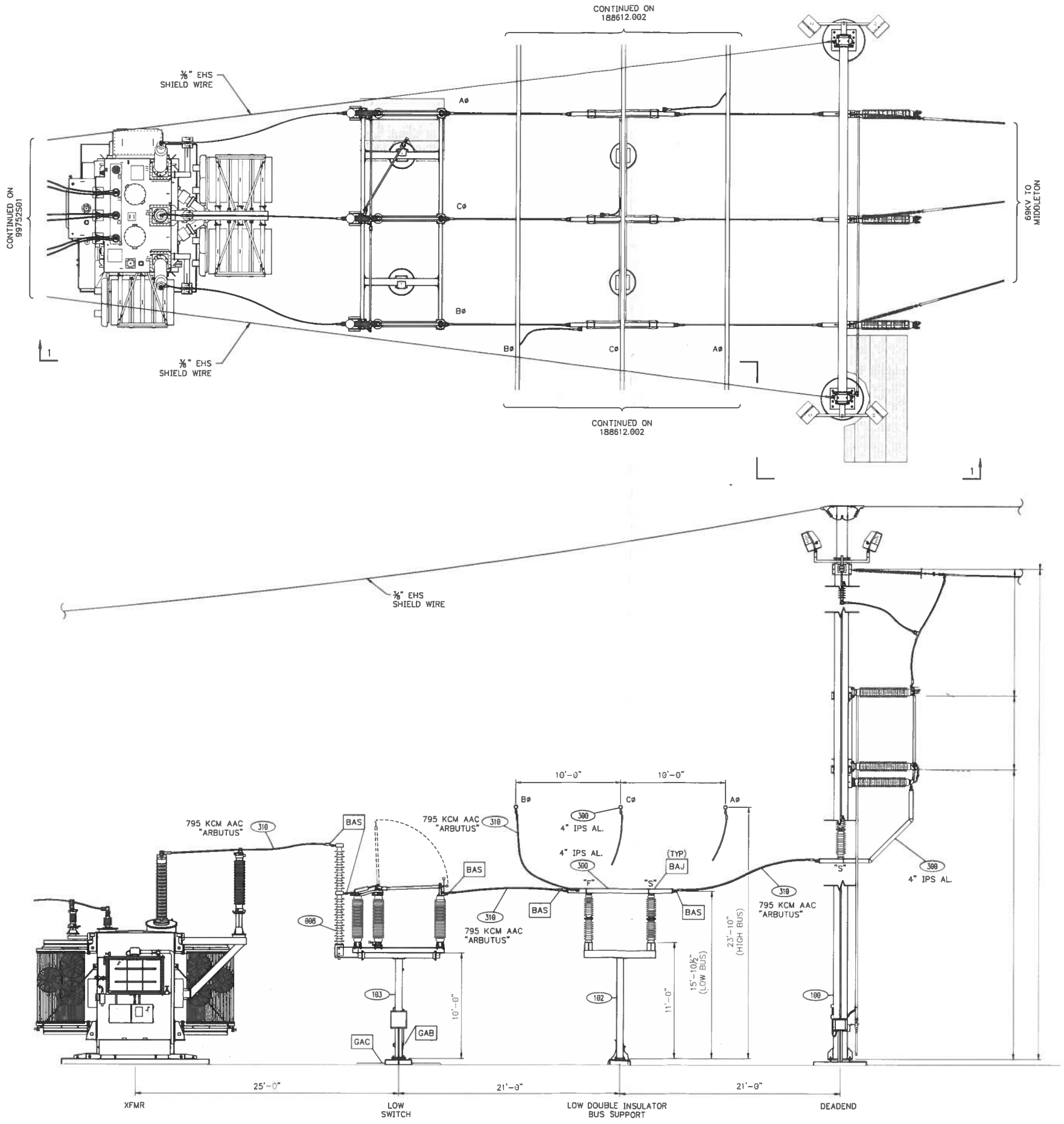
ELECTRICAL

| | | | |
|---|---|---|---|
| PROJ/ER# | 10002944 | DISCIPLINE ENG. | GARY W. REAVES |
| PL# | 017174 | | |
| DATE: | 07/09/2000 | PROJECT ENG. | JOSEPH F. BELL |
| ENG. | GWR | DES. | GWR |
| DR. | WLT | CH. | JFB |
| SCALE: | 1/4" = 1'-0" | APPROVAL ENG. | |

PACIFICORP
A BERKSHIRE HATHAWAY ENERGY COMPANY

REVISION 3A | 99752S01 | SHEET 1 OF 2

| NO. | DATE | REVISIONS | ENGINEER | DES./ DR. | CHECKED | APPROVED |
|---|---|---|---|---|---|---|
| 1 | 08/25/99 | WO# 10037528 #13 NEW CIRCUIT BREAKER | T. BYRNES/WLP | M.CASADOS/WLP | T. BYRNE/WLP | R.JUKKOLA/WLP |
| 2 | 07/27/12 | WO# 10083855 AS-BUILT UPDATE PHASE LABELS | | M. RIDGE | R. BURBACH | J. BELL |
| 3A | 02/13/18 | WO# 10063512 REPLACE TRANSFORMER, ADD TRANSRUPTER & REPLACE CB11 & CB12 RELAYS | D. SOUTH/ECI | J. MAROSTICA/ECI | D. BRANDT/ECI | B. LAMERES/ECI |
| | | | | | | |
| | | | | | | |




ELEVATION 1-1

N

PRELIMINARY
03/30/2018

0 5' 10' 15'

SCALE IN FEET
⅜"=1'-0"

NOTES & LEGEND

| | |
|---|---|
| BAA | INDICATES BUS CONNECTION DETAIL SHOWN ON 97XXX |
| CAA | INDICATES CONDUIT & CABLE DETAIL SHOWN ON 97XXX |
| GAA | INDICATES GROUNDING DETAIL SHOWN ON 97XXX |
| (Y501) | INDICATES ITEM NUMBER SHOWN ON BILL OF MATERIAL 9XXXX |

1. 240V RECEPTACLE AND COVER TO BE PROVIDED BY DISTRICT.
2. "F" INDICATES FIXED BUS SUPPORT TO BE WELDED. "S" INDICATES SLIP BUS SUPPORT, NOT TO BE WELDED.
3. TYPICAL STRUCTURE AND EQUIPMENT GROUNDING SHOWN ON GROUNDING DETAILS DRAWING.
4. TYPICAL CONDUIT CONNECTIONS TO EQUIPMENT ARE SHOWN ON CONDUIT & CABLE DETAILS DRAWING.
5. APPROXIMATE LENGTHS OF ALUMINUM TUBING ARE SHOWN ON THE PLAN & ELEVATION VIEWS.
6. FOR SEISMIC CONCERNS, PROVIDE ENOUGH SLACK TO ALLOW 6" OF MOVMENT.

REFERENCE DRAWINGS

| | |
|---|---|
| 99757 | DRAWING LIST |
| 96209 | ONE LINE DIAGRAM |
| 99762 | GENERAL PLAN |

| NO. | DATE | REVISIONS | ENGINEER | DES./ DR. | CHECKED | APPROVED |
|---|---|---|---|---|---|---|
| 0A | 03/29/18 | WOJ 188631512 NEW ELEVATION VIEW 1-1, NEW DRAWING | P. ERICKSON/ECI | D. CHRISTEN/ECI | D. BRANDT/ECI | B. LAMERS/ECI |

PACIFICORP
A SUBSIDIARY OF BERKSHIRE HATHAWAY ENERGY COMPANY

ELECTRICAL

| | |
|---|---|
| PROJ/DTN | 19607944 |
| P.# | 0177174 |
| DATE: | 03/29/2018 |
| DSGN: P. ERICKSON/ECI | DES: F. ANSARI/ECI |
| DR: Q. CHRISTEN/ECI | CH: P. ERICKSON/ECI |
| SCALE: | ⅜"=1'-0" |

DISCIPLINE ENG.: PAUL ERICKSON/ECI
PROJECT ENG.: DAVID BRANDT/ECI
APPROVAL DIR.: BRUCE LAMERS/ECI

IVINS SUBSTATION
WASHINGTON COUNTY, UTAH
PLANS & ELEVATIONS
ELEVATION 1-1

SHEET 1 OF 2

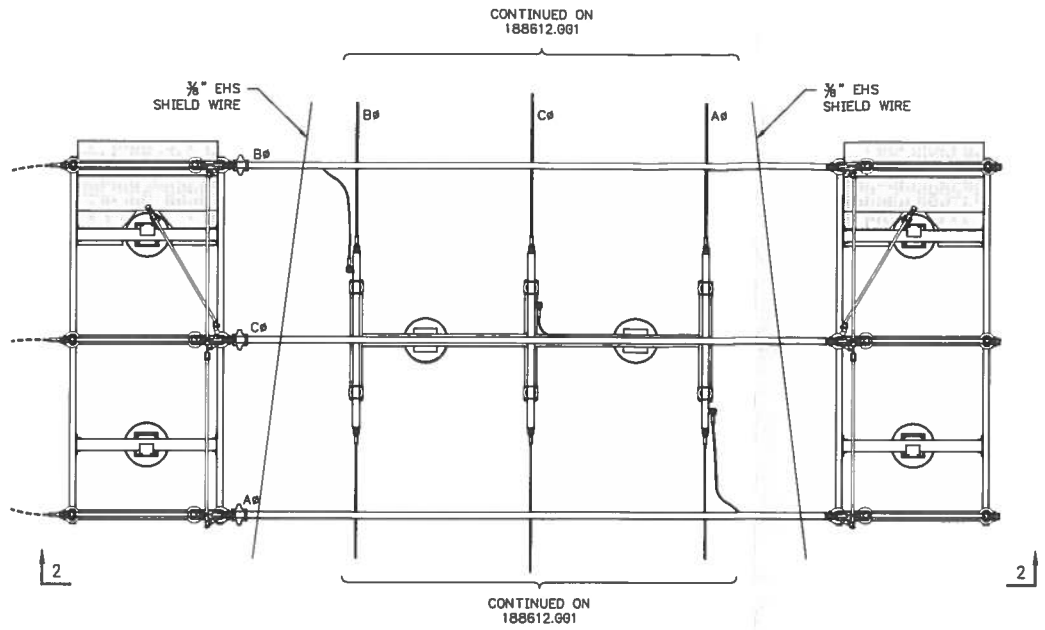
188612.001

REVISION 0A

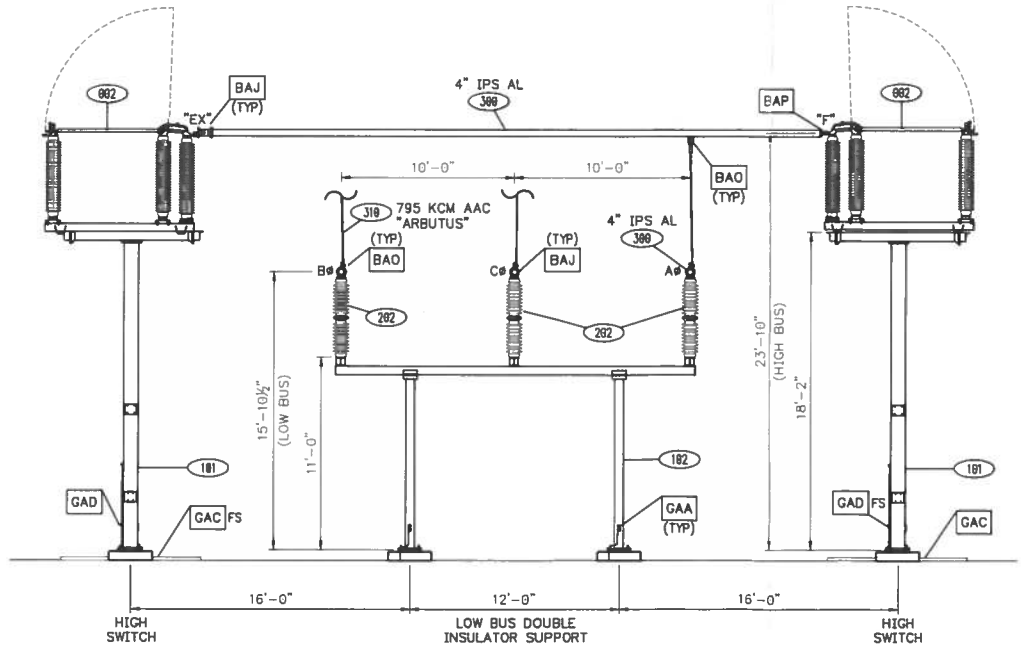
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ATTACHED XREFS: L:\PACIFICORP\RMP-249 IVINS\06 PROJECT DWGS\05 PHYSICAL\X0601V7LB.DWG, L:\PACIFICORP\RMP-249 IVINS\06 PROJECT DWGS\05 PHYSICAL\99762500.XE.DWG

PLOTTED: 03/30/18 BY: U. HUNSAKER




PLAN




ELEVATION 2-2

N

**PRELIMINARY**
03/30/2018

0 5' 10' 15'
SCALE IN FEET
3/16"=1'-0"

NOTES & LEGEND

| | |
|---|---|
| BAA | INDICATES BUS CONNECTION DETAIL SHOWN ON 97XXX |
| CAA | INDICATES CONDUIT & CABLE DETAIL SHOWN ON 97XXX |
| GAA | INDICATES GROUNDING DETAIL SHOWN ON 97XXX |
| (Y501) | INDICATES ITEM NUMBER SHOWN ON BILL OF MATERIAL 9XXXX |

1. 240V RECEPTACLE AND COVER TO BE PROVIDED BY DISTRICT.
2. "F" INDICATES FIXED BUS SUPPORT TO BE WELDED. "S" INDICATES SLIP BUS SUPPORT, NOT TO BE WELDED.
3. TYPICAL STRUCTURE AND EQUIPMENT GROUNDING SHOWN ON GROUNDING DETAILS DRAWING.
4. TYPICAL CONDUIT CONNECTIONS TO EQUIPMENT ARE SHOWN ON CONDUIT & CABLE DETAILS DRAWING.
5. APPROXIMATE LENGTHS OF ALUMINUM TUBING ARE SHOWN ON THE PLAN & ELEVATION VIEWS.
6. FOR SEISMIC CONCERNS, PROVIDE ENOUGH SLACK TO ALLOW 6" OF MOVMENT.

REFERENCE DRAWINGS

| | |
|---|---|
| 99757 | DRAWING LIST |
| 96209 | ONE LINE DIAGRAM |
| 99762 | GENERAL PLAN |

| NO. | DATE | REVISIONS | ENGINEER | DES. / DR. | CHECKED | APPROVED |
|---|---|---|---|---|---|---|
| 9A | 03/29/18 | WO# 10063512 NEW ELEVATION VIEW 2-2, NEW DRAWING | P. ERICKSON/FCI | D. CHRISTEN/FCI | D. BRANDT/FCI | B. LAMERES/FCI |

PACIFICORP
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ELECTRICAL

| | | | |
|---|---|---|---|
| PROJ/ENG | 10002944 | DESIGN ENG. | PAUL ERICKSON/FCI |
| PM 6177174 | | PROJECT ENG. | DAVID BRANDT/FCI |
| DATE | 03/29/2018 | APPROVAL ENG. | BRUCE LAMERES/FCI |
| DRWG. ERICKSON/FCI | DES. T. ANSARI/FCI | CK. P. ERICKSON/FCI | |
| DR. D. CHRISTEN/FCI | CK. D. BRANDT/FCI | SCALE | 3/16"=1'-0" |

IVINS SUBSTATION
WASHINGTON COUNTY, UTAH
PLANS & ELEVATIONS
ELEVATION 2-2

SHEET 2

188612.002

REVISION 0A

REVISED 03/18/18 D. MORLEY

FILE LOCATION:L:\PacifiCorp\RMP-249 Ivins\86 Project Dwgs\85 Physical\188612.002 SAVED BY:(OCHRISTENSEN) 3/30/2018 11:06 AM PLOTTED BY:(FAISAL ANSARI) 3/30/2018 12:49 PM

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