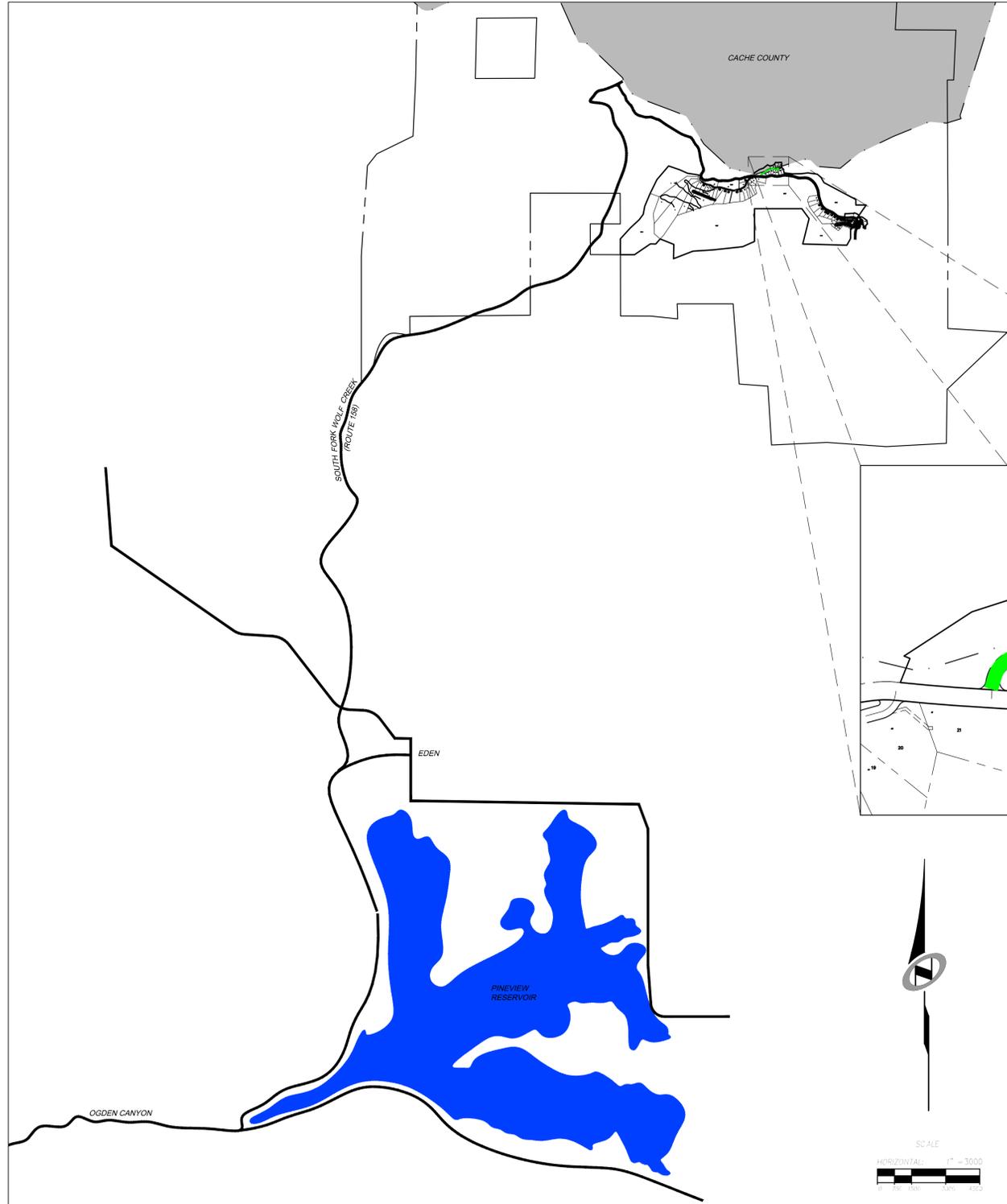


SUMMIT AT POWDER MOUNTAIN PHASE 1B - HEARTWOOD DRIVE ROADWAY AND UTILITY CONSTRUCTION DRAWINGS

**Located in Sec 01 T7N R1E
Weber County, Utah**

DATE: 11/4/13 TIME: 12:16:42 PM DRAWING NAME: P:\01010101
SERVER: NONE PAGE SETUP: LAYOUT: 1
PATH: H:\SLB079306\PHASE 1\VP\PHASE 1B
DESIGNER: ### PROJ. MGR: ###



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NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADDendum 1
2	RWC	9/24/2013	UTILITY, GRADING, AND ROCKET REV

The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

**PHASE 1B CONSTRUCTION
CIVIL TITLE SHEET**

DATE SUBMITTED: 11/4/2013

PREPARED FOR: SUMMIT, LLC

NV5
BEYOND ENGINEERING
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SHEET NUMBER	1.00
SCALE	VERTICAL: 1" = 8' HORIZONTAL: 1" = 3000'
JOB NUMBER	SLB079306

**APPROVED
WEBER FIRE DISTRICT
11/19/2013 11:12:21 AM**



PERFECT XREFS:

DATE: 11/14/13 TIME: 12:16:49 PM DRAWING NAME: PHASE 1B CONSTRUCTION LAYOUT: LAYOUT 1
 SERVER: N:\BID\930\CAD\PHASE 1\PHASE 1B DESIGNED: JHH PROJ. MGR: JHH
 PLOTTED: 11/14/13 11:12:32 AM
 PREPARED FOR: SUMMIT, LLC

GENERAL NOTES

- ALL CONSTRUCTION MUST STRICTLY FOLLOW THE STANDARDS AND SPECIFICATIONS SET FORTH BY: GOVERNING UTILITY MUNICIPALITY, GOVERNING CITY OR COUNTY (IF UN-INCORPORATED), INDIVIDUAL PRODUCT MANUFACTURERS, THE DESIGN ENGINEER, AND AMERICAN PUBLIC WORKS ASSOCIATION (APWA). THE ORDER LISTED ABOVE IS ARRANGED BY SENIORITY. IF A CONSTRUCTION PRACTICE IS NOT SPECIFIED BY ANY OF THE LISTED SOURCES, CONTRACTOR MUST CONTACT DESIGN ENGINEER FOR DIRECTION.
- CONTRACTOR TO STRICTLY FOLLOW GEOTECHNICAL RECOMMENDATIONS FOR THIS PROJECT. ALL GRADING INCLUDING BUT NOT LIMITED TO CUT, FILL, COMPACTION, ASPHALT SECTION, SUBBASE, TRENCH EXCAVATION/BACKFILL, SITE GRUBBING, RETAINING WALLS AND FOOTINGS MUST BE COORDINATED DIRECTLY WITH THE PROJECT GEOTECHNICAL ENGINEER.
- TRAFFIC CONTROL, STRIPING & SIGNAGE TO CONFORM TO CURRENT UDOT TRANSPORTATION ENGINEER'S MANUAL AND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
- CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
- AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST RECENT, ADOPTED EDITION OF ADA ACCESSIBILITY GUIDELINES.
- PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING SURE THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED THOROUGHLY REVIEWED PLANS AND OTHER DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
- ANY WORK IN THE PUBLIC RIGHT-OF-WAY WILL REQUIRE PERMITS FROM THE APPROPRIATE, CITY, COUNTY OR STATE AGENCY CONTROLLING THE ROAD, INCLUDING OBTAINING REQUIRED INSPECTIONS.
- ALL DIMENSIONS, GRADES & UTILITY DESIGNS SHOWN ON THE PLANS SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY PLAN OR GRADE CHANGES.
- CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ANY QUESTIONS BEFOREHAND.
- SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH BY THE GEOTECHNICAL ENGINEER.
- CATCH SLOPES SHALL BE GRADED AS SPECIFIED ON GRADING PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLAGGING, CAUTION SIGNS, LIGHTS, BARRICADES, FLAGMEN, AND ALL OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
- CONTRACTOR SHALL, AT THE TIME OF BIDDING AND THROUGHOUT THE PERIOD OF THE CONTRACT, BE LICENSED IN THE STATE OF UTAH AND SHALL BE BONDABLE FOR AN AMOUNT EQUAL TO OR GREATER THAN THE AMOUNT BID AND TO DO THE TYPE OF WORK CONTEMPLATED IN THE PLANS AND SPECIFICATIONS. CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL INSPECT THE SITE OF THE WORK PRIOR TO BIDDING TO SATISFY HIMSELF BY PERSONAL EXAMINATION OR BY SUCH OTHER MEANS AS HE MAY PREFER OF THE LOCATION OF THE PROPOSED WORK AND OF THE ACTUAL CONDITIONS OF AND AT THE SITE OF WORK. IF, DURING THE COURSE OF HIS EXAMINATION, A BIDDER FINDS FACTS OR CONDITIONS WHICH APPEAR TO HIM TO BE IN CONFLICT WITH THE LETTER OR SPIRIT OF THE PROJECT PLANS AND SPECIFICATIONS, HE SHALL CONTACT THE ENGINEER FOR ADDITIONAL INFORMATION AND EXPLANATION BEFORE SUBMITTING HIS BID. SUBMISSION OF A BID BY THE CONTRACTOR SHALL CONSTITUTE ACKNOWLEDGMENT THAT, IF AWARDED THE CONTRACT, HE HAS RELIED AND IS RELYING ON HIS OWN EXAMINATION OF (1) THE SITE OF THE WORK, (2) ACCESS TO THE SITE, AND (3) ALL OTHER DATA AND MATTERS REQUISITE TO THE FULFILLMENT OF THE WORK ON HIS OWN KNOWLEDGE OF EXISTING FACILITIES ON AND IN THE VICINITY OF THE SITE OF THE WORK TO BE CONSTRUCTED UNDER THIS CONTRACT. THE INFORMATION PROVIDED BY THE ENGINEER IS NOT INTENDED TO BE A SUBSTITUTE FOR, OR A SUPPLEMENT TO, THE INDEPENDENT VERIFICATION BY THE CONTRACTOR TO THE EXTENT SUCH INDEPENDENT INVESTIGATION OF SITE CONDITIONS IS DEEMED NECESSARY OR DESIRABLE BY THE CONTRACTOR. CONTRACTOR SHALL ACKNOWLEDGE THAT HE HAS NOT RELIED SOLELY UPON OWNER-OR ENGINEER-FURNISHED INFORMATION REGARDING SITE CONDITIONS IN PREPARING AND SUBMITTING HIS BID.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
- CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER, ENGINEER, AND/OR GOVERNING AGENCIES.
- CONTRACTOR SHALL EXERCISE DUE CAUTION AND SHALL CAREFULLY PRESERVE BENCH MARKS, CONTROL POINTS, REFERENCE POINTS AND ALL SURVEY STAKES, AND SHALL BEAR ALL EXPENSES FOR REPLACEMENT AND/OR ERRORS CAUSED BY THEIR UNNECESSARY LOSS OR DISTURBANCE.
- CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS RESPONSIBILITY SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATELY SCHEDULING INSPECTION AND TESTING OF ALL FACILITIES CONSTRUCTED UNDER THIS CONTRACT. ALL TESTING SHALL CONFORM TO THE REGULATORY AGENCY'S STANDARD SPECIFICATIONS. ALL TESTING AND INSPECTION SHALL BE PAID FOR BY THE OWNER; ALL RE-TESTING AND/OR RE-INSPECTION SHALL BE PAID FOR BY THE CONTRACTOR.
- IF EXISTING IMPROVEMENTS NEED TO BE DISTURBED AND/OR REMOVED FOR THE PROPER PLACEMENT OF IMPROVEMENTS TO BE CONSTRUCTED BY THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING IMPROVEMENTS FROM DAMAGE. COST OF REPLACING OR REPAIRING EXISTING IMPROVEMENTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS REQUIRING REMOVAL AND/OR REPLACEMENT. THERE WILL BE NO EXTRA COST DUE TO THE CONTRACTOR FOR REPLACING OR REPAIRING EXISTING IMPROVEMENTS.
- WHenever existing facilities are removed, damaged, broken, or cut in the installation of the work covered by these plans or specifications, said facilities shall be replaced at the contractor's expense with materials equal to or better than the materials used in the original existing facilities. The finished product shall be subject to the approval of the owner, the engineer, and the respective agency.
- CONTRACTOR SHALL MAINTAIN A NEATLY MARKED SET OF FULL-SIZE AS-BUILT RECORD DRAWINGS SHOWING THE FINAL LOCATION AND LAYOUT OF ALL STRUCTURES AND OTHER FACILITIES. AS-BUILT RECORD DRAWINGS SHALL REFLECT CHANGE ORDERS, ACCOMMODATIONS, AND ADJUSTMENTS TO ALL IMPROVEMENTS CONSTRUCTED. WHERE NECESSARY, SUPPLEMENTAL DRAWINGS SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR. PRIOR TO ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL DELIVER TO THE ENGINEER ONE SET OF NEATLY MARKED AS-BUILT RECORD DRAWINGS SHOWING THE INFORMATION REQUIRED ABOVE. AS-BUILT RECORD DRAWINGS SHALL BE REVIEWED AND THE COMPLETE AS-BUILT RECORD DRAWING SET SHALL BE CURRENT WITH ALL CHANGES AND DEVIATIONS REDLINED AS A PRECONDITION TO THE FINAL PROGRESS PAYMENT APPROVAL AND/OR FINAL ACCEPTANCE.
- WHERE THE PLANS OR SPECIFICATIONS DESCRIBE PORTIONS OF THE WORK IN GENERAL TERMS BUT NOT IN COMPLETE DETAIL, IT IS UNDERSTOOD THAT ONLY THE BEST GENERAL PRACTICE IS TO PREVAIL AND THAT ONLY MATERIALS AND WORKMANSHIP OF THE FIRST QUALITY ARE TO BE USED.

GENERAL NOTES CONT.

- CONTRACTOR SHALL BE SKILLED AND REGULARLY ENGAGED IN THE GENERAL CLASS AND TYPE OF WORK CALLED FOR IN THE PROJECT PLANS AND SPECIFICATIONS. THEREFORE, THE OWNER IS RELYING UPON THE EXPERIENCE AND EXPERTISE OF THE CONTRACTOR. PRICES PROVIDED WITHIN THE CONTRACT DOCUMENTS SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY AND PROPER FOR THE WORK CONTEMPLATED AND THAT THE WORK BE COMPLETED IN ACCORDANCE WITH THE TRUE INTENT AND PURPOSE OF THESE PLANS AND SPECIFICATIONS. THE CONTRACTOR SHALL BE COMPETENT, KNOWLEDGEABLE AND HAVE SPECIAL SKILLS IN THE NATURE, EXTENT AND INHERENT CONDITIONS OF THE WORK TO BE PERFORMED. CONTRACTOR SHALL ALSO ACKNOWLEDGE THAT THERE ARE CERTAIN PECULIAR AND INHERENT CONDITIONS EXISTENT IN THE CONSTRUCTION OF THE PARTICULAR FACILITIES WHICH MAY CREATE, DURING THE CONSTRUCTION PROGRAM, UNUSUAL OR UNSAFE CONDITIONS HAZARDOUS TO PERSONS, PROPERTY AND THE ENVIRONMENT. CONTRACTOR SHALL BE AWARE OF SUCH PECULIAR RISKS AND HAVE THE SKILL AND EXPERIENCE TO FORESEE AND TO ADOPT PROTECTIVE MEASURES TO ADEQUATELY AND SAFELY PERFORM THE CONSTRUCTION WORK WITH RESPECT TO SUCH HAZARDS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRIPING AND/OR PAVEMENT MARKINGS NECESSARY TO THE EXISTING STRIPING INTO FUTURE STRIPING. METHOD OF REMOVAL SHALL BE BY GRINDING OR SANDBLASTING.
- CONTRACTOR SHALL PROVIDE ALL SHORING, BRACING, SLOPING OR OTHER PROVISIONS NECESSARY TO PROTECT WORKMEN FOR ALL AREAS TO BE EXCAVATED TO A DEPTH OF 4' OR MORE. FOR EXCAVATIONS 4 FEET OR MORE IN DEPTH, THE CONTRACTOR SHALL COMPLY WITH INDUSTRIAL COMMISSION OF UTAH SAFETY ORDERS SECTION 68 - EXCAVATIONS, AND SECTION 69 - TRENCHES, ALONG WITH ANY LOCAL CODES OR ORDINANCES.
- ALL EXISTING GATES AND FENCES TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL GATES AND FENCES FROM DAMAGE.
- CONTRACTOR TO PROVIDE TEMPORARY ADDRESS MARKERS AT THE BUILDING SITE DURING CONSTRUCTION.

UTILITY NOTES

- CONTRACTOR SHALL COORDINATE LOCATION OF NEW "DRY UTILITIES" WITH THE APPROPRIATE UTILITY COMPANY, INCLUDING BUT NOT LIMITED TO: TELEPHONE SERVICE, GAS SERVICE, CABLE, POWER, INTERNET.
- EXISTING UTILITIES HAVE BEEN SHOWN ON THE PLANS USING A COMBINATION OF ON-SITE SURVEYS (BY OTHERS). PRIOR TO COMMENCING ANY WORK, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE EACH UTILITY COMPANY LOCATE, IN THE FIELD, THEIR MAIN AND SERVICE LINES. THE CONTRACTOR SHALL NOTIFY BLUE STAKES AT 1-800-682-4111 48 HOURS IN ADVANCE OF PERFORMING ANY EXCAVATION WORK. THE CONTRACTOR SHALL RECORD THE BLUE STAKES ORDER NUMBER AND FURNISH ORDER NUMBER TO OWNER AND ENGINEER PRIOR TO ANY EXCAVATION. IT WILL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO DIRECTLY CONTACT ANY OTHER UTILITY COMPANIES THAT ARE NOT MEMBERS OF BLUE STAKES. IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO PROTECT ALL EXISTING UTILITIES SO THAT NO DAMAGE RESULTS TO THEM DURING THE PERFORMANCE OF THIS CONTRACT. ANY REPAIRS NECESSARY TO DAMAGED UTILITIES SHALL BE PAID FOR BY THE CONTRACTOR. THE CONTRACTOR SHALL BE REQUIRED TO COOPERATE WITH OTHER CONTRACTORS AND UTILITY COMPANIES INSTALLING NEW STRUCTURES, UTILITIES AND SERVICE TO THE PROJECT.
- CONTRACTOR SHALL NOT HOLE ALL UTILITIES TO DETERMINE IF CONFLICTS EXIST PRIOR TO BEGINNING ANY EXCAVATION. NOTIFY ENGINEER OF ANY CONFLICTS. CONTRACTOR SHALL VERIFY LOCATION AND INVERTS OF EXISTING UTILITIES TO WHICH NEW UTILITIES WILL BE CONNECTED. PRIOR TO COMMENCING ANY EXCAVATION WORK THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN ACCORDANCE WITH THE REQUIRED PROCEDURES.
- CARE SHOULD BE TAKEN IN ALL EXCAVATIONS DUE TO POSSIBLE EXISTENCE OF UNRECORDED UTILITY LINES. EXCAVATION REQUIRED WITHIN PROXIMITY OF EXISTING UTILITY LINES SHALL BE DONE BY HAND. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING UTILITY LINES OR STRUCTURES INCURRED DURING CONSTRUCTION OPERATIONS AT HIS EXPENSE.
- ALL VALVES AND MANHOLE COVERS SHALL BE RAISED OR LOWERED TO MEET FINISHED GRADE.
- CONTRACTOR SHALL CUT PIPES OFF FLUSH WITH THE INSIDE WALL OF THE BOX OR MANHOLE.
- CONTRACTOR SHALL GROUT AT CONNECTION OF PIPE TO BOX WITH NON-SHRINKING GROUT, INCLUDING PIPE VOIDS LEFT BY CUTTING PROCESS, TO A SMOOTH FINISH.
- CONTRACTOR SHALL GROUT WITH NON-SHRINK GROUT BETWEEN GRADE RINGS AND BETWEEN BOTTOM OF INLET LIU FRAME AND TOP OF CONCRETE BOX.
- SILT AND DEBRIS IS TO BE CLEANED OUT OF ALL STORM DRAIN BOXES. CATCH BASINS ARE TO BE MAINTAINED IN A CLEANED CONDITION AS NEEDED UNTIL AFTER THE FINAL BOND RELEASE INSPECTION.
- CONTRACTOR SHALL CLEAN ASPHALT, TAR OR OTHER ADHESIVES OFF OF ALL MANHOLE LIDS AND INLET GRATINGS TO ALLOW ACCESS.
- EACH TRENCH SHALL BE EXCAVATED SO THAT THE PIPE CAN BE LAID TO THE ALIGNMENT AND GRADE AS REQUIRED. THE TRENCH WALL SHALL BE SO BRACED THAT THE WORKMEN MAY WORK SAFELY AND EFFICIENTLY. ALL TRENCHES SHALL BE DRAINED SO THE PIPE LAYING MAY TAKE PLACE IN DEWATERED CONDITIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COST OF DEWATERING AND NO COST CHANGE WILL BE PROVIDED.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN AT ALL TIMES AMPLE MEANS AND DEVICES WITH WHICH TO REMOVE PROMPTLY AND TO PROPERLY DISPOSE OF ALL WATER ENTERING THE TRENCH EXCAVATION.
- MAINTAIN A MINIMUM 18" VERTICAL SEPARATION DISTANCE BETWEEN ALL UTILITY CROSSINGS.
- CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY UTILITY LINES.
- ALL BOLTED FITTINGS MUST BE GREASED AND WRAPPED.
- UNLESS SPECIFICALLY NOTED OTHERWISE, MAINTAIN AT LEAST 2 FEET OF COVER OVER ALL STORM DRAIN LINES AT ALL TIMES (INCLUDING DURING CONSTRUCTION).
- ALL WATER LINES SHALL BE INSTALLED A MINIMUM OF 60" OF COVER TO TOP OF PIPE BELOW FINISHED GRADE.
- ALL SEWER LINES AND SEWER SERVICES SHALL HAVE A MINIMUM SEPARATION OF 10 FEET, PIPE EDGE TO PIPE EDGE, FROM THE WATER LINES.
- CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS AND TEES.
- ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK AND STREET PAVING.
- CONTRACTOR SHALL INSTALL MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL NONMETALLIC PIPE.
- THE CONTRACTOR SHALL NOTIFY NOLTE ASSOCIATES, INC. IN WRITING AT LEAST 48 HOURS PRIOR TO BACKFILLING OF ANY PIPE WHICH STUBS TO A FUTURE PHASE OF CONSTRUCTION FOR INVERT VERIFICATION. TOLERANCE SHALL BE IN ACCORDANCE WITH THE REGULATORY AGENCY STANDARD SPECIFICATIONS.
- UNDER NO CIRCUMSTANCE SHALL THE PIPE OR ACCESSORIES BE DROPPED INTO THE TRENCH

EROSION CONTROL GENERAL NOTES:

THE CONTRACTOR TO USE BEST MANAGEMENT PRACTICES FOR PROVIDING EROSION CONTROL FOR CONSTRUCTION OF THIS PROJECT. ALL MATERIAL AND WORKMANSHIP SHALL CONFORM TO WEBER COUNTY ORDINANCES AND ALL WORK SHALL BE SUBJECT TO INSPECTION BY THE COUNTIES. ALSO, INSPECTORS WILL HAVE THE RIGHT TO CHANGE THE FACILITIES AS NEEDED.

CONTRACTOR SHALL KEEP THE SITE WATERED TO CONTROL DUST. CONTRACTOR TO LOCATE A NEARBY HYDRANT FOR USE AND TO INSTALL TEMPORARY METER. CONSTRUCTION WATER COST TO BE INCLUDED IN BID.

WHEN GRADING OPERATIONS ARE COMPLETED AND THE DISTURBED GROUND IS LEFT "OPEN" FOR 14 DAYS OR MORE, THE AREA SHALL BE FURROWED PARALLEL TO THE CONTOURS.

THE CONTRACTOR SHALL MODIFY EROSION CONTROL MEASURES TO ACCOMMODATE PROJECT PLANNING.

ALL ACCESS TO PROPERTY WILL BE FROM PUBLIC RIGHT-OF-WAYS.

LEGEND:

SYMBOL / LINETYPE	DESCRIPTION	DETAIL
	18" HDPE DR-13.5 WATER PIPE (UNLESS NOTED OTHERWISE)	APWA PLAN NO. 381,382
	16" HDPE DR-13.5 WATER PIPE (UNLESS NOTED OTHERWISE)	APWA PLAN NO. 381,382
	14" HDPE DR-13.5 WATER PIPE (UNLESS NOTED OTHERWISE)	APWA PLAN NO. 381,382
	12" HDPE DR-13.5 WATER PIPE (UNLESS NOTED OTHERWISE)	APWA PLAN NO. 381,382
	10" HDPE DR-13.5 WATER PIPE (UNLESS NOTED OTHERWISE)	APWA PLAN NO. 381,382
	8" HDPE DR-13.5 WATER PIPE (UNLESS NOTED OTHERWISE)	APWA PLAN NO. 381,382
	6" HDPE DR-13.5 WATER PIPE (UNLESS NOTED OTHERWISE)	APWA PLAN NO. 381,382
	21" CLUII RCP DRAINAGE PIPE	APWA PLAN NO. 381,382
	18" CLUII RCP DRAINAGE PIPE	APWA PLAN NO. 381,382
	15" CLUII RCP DRAINAGE PIPE	APWA PLAN NO. 381,382
	DRAINAGE SWALE	N/A
	8" SDR-35 PVC SEWER PIPE	APWA PLAN NO. 381,382
	8" DR-17 HDPE SEWER PIPE	APWA PLAN NO. 381,382
	PRESSURE SEWER PIPE	APWA PLAN NO. 381,382
	(2) JOINT TRENCHED PRESSURE SEWER PIPES	APWA PLAN NO. 381,382
	(3) JOINT TRENCHED PRESSURE-SEWER PIPES	APWA PLAN NO. 381,382
	(4) JOINT TRENCHED PRESSURE-SEWER PIPES	APWA PLAN NO. 381,382
	PROPOSED FIRE HYDRANT ASSEMBLY	APWA PLAN NO. 511
	4' SEWER MANHOLE	APWA PLAN NO. 411
	5' SEWER MANHOLE	APWA PLAN NO. 411
	STORM DRAIN MANHOLE	APWA PLAN NO. 341
	CURB INLET BOX	APWA PLAN NO. 315
	FLARED END PIPE SECTION FOR ROUND PIPE	PER DETAIL ON SHEET 5.00
	3' X 3' CATCH BASIN	PER DETAIL ON SHEET 5.00
	PROPOSED ELECTRICAL PULLBOX	N/A
	PROPOSED PAVEMENT SECTION	PER IGES GEOTECH REPORT 11/09/12
	ADJOINING PROPERTY BOUNDARY	N/A
	WEBER/CACHE COUNTY LINE	N/A
	PROPOSED LOT LINE	N/A
	PROPOSED ROAD RIGHT OF WAY	N/A
	PROPOSED ROAD CENTERLINE	N/A
	TYPE F PROPOSED CURB AND GUTTER	APWA STANDARD PLAN 205
	PROPOSED GUARDRAIL	UDOT BA 401
	PROPOSED END TREATMENT TYPE G	UDOT CC 1
	SURVEY MONUMENT MARKER	PER WEBER COUNTY SPECS. SEE SHEET 5.20
	EXISTING 6" WATER PIPE	N/A
	EXISTING SEWER PIPE	N/A
	EXISTING 4" WATER PIPE	N/A
	EXISTING SEWER MANHOLE	N/A
	EXISTING ELECTRICAL PULLBOX	N/A

NOTE: LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED IN PLAN SET.

EROSION CONTROL GENERAL NOTES CONT.:

THE CONTRACTOR IS REQUIRED BY STATE AND FEDERAL REGULATIONS TO PREPARE A STORM WATER POLLUTION PREVENTION PLAN AND FILE A "NOTICE OF INTENT" WITH THE UTAH DIVISION OF WATER QUALITY.

MAINTENANCE:

ALL BEST MANAGEMENT PRACTICES (BMP'S) SHOWN ON THIS PLAN MUST BE MAINTAINED AT ALL TIMES UNTIL VEGETATION IS RE-ESTABLISHED.

THE CONTRACTOR'S RESPONSIBILITY SHALL INCLUDE MAKING BI-WEEKLY CHECKS ON ALL EROSION CONTROL MEASURES TO DETERMINE IF REPAIR OR SEDIMENT REMOVAL IS NECESSARY. CHECKS SHALL BE DOCUMENTED AND COPIES OF THE INSPECTIONS KEPT ON SITE.

SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF BARRIER.

SEDIMENT TRACKED ONTO PAVED ROADS MUST BE CLEANED UP AS SOON AS PRACTICAL, BUT IN NO CASE LATER THAN THE END OF THE NORMAL WORK DAY. THE CLEAN UP WILL INCLUDE SWEEPING OF THE TRACKED MATERIAL, PICKING IT UP, AND DEPOSITING IT TO A CONTAINED AREA.

EXPOSED SLOPES:

ANY EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS:

- A) SPRAYING DISTURBED AREAS WITH A TACKIFIER VIA HYDROSEED
- B) TRACKING STRAW PERPENDICULAR TO SLOPES
- C) INSTALLING A LIGHT-WEIGHT, TEMPORARY EROSION CONTROL BLANKET

SCOPE OF WORK:

PROVIDE, INSTALL AND/OR CONSTRUCT THE FOLLOWING PER THE SPECIFICATIONS GIVEN OR REFERENCED, THE DETAILS NOTED, AND/OR AS SHOWN ON THE CONSTRUCTION DRAWINGS:

GEOTECHNICAL REPORT

CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND READ A COPY OF THE GEOTECHNICAL REPORT "DESIGN GEOTECHNICAL INVESTIGATION POWDER MOUNTAIN RESORT WEBER, COUNTY, UTAH" PRODUCED BY IGES. IGES PROJECT NUMBER 01628-003, DATED NOVEMBER 9, 2012. CONTRACTOR SHALL FOLLOW THE RECOMMENDATIONS AND GUIDELINES FOUND THEREIN.

HATCHING INDICATES AREAS TO RECEIVE 4" TOPSOIL AND TO BE SEEDED FOR NATURAL VEGETATION*. AREAS RECEIVING SEEDING FOR NATURAL VEGETATION MUST BE COVERED WITH AN EROSION CONTROL BLANKET AFTER THE FINAL GRADING AND SEEDING ARE FINISHED. INSTALL NORTH AMERICAN GREEN SC-150 BLANKET OR APPROVED EQUAL FOLLOW MANUFACTURER'S SPECIFICATIONS. INSTALL NORTH AMERICAN GREEN P300 EROSION CONTROL BLANKET ON ALL SLOPES GREATER THAN 1.5:1.

INSTALL 15' X 50' VEHICLE WASH DOWN AREA WITH 1"-2.5" COARSE AGGREGATE PLACED A MINIMUM 8" THICK. SUPPLY WATER FOR VEHICLE WASH DOWN.

STABILIZED CONSTRUCTION ENTRANCE FOR SITE INGRESS/EGRESS. IF ALTERNATE ACCESS POINTS ARE APPROVED BY OWNER, ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES WILL BE REQUIRED.

INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN.

INSTALL SILT FENCE ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN.

INSTALL ORANGE SAFETY FENCING AROUND OUTER LIMITS OF PROJECT PRIOR TO GRADING.

KEYNOTE CALLOUTS

- WATER SERVICE LATERAL PER APWA STANDARD DRAWING 521 AND SPECIFICATIONS (TYP.)
- 12" 22.5" DI BEND PER APWA PLAN NO. 561,562
- 12" 11.25" DI BEND PER APWA PLAN NO. 561,562
- CONNECT TO EXISTING SEWER STUB WITH PVC PIPE COUPLING SLEEVE
- (1)2.5" IPS DR-17 HDPE PIPE PER APWA PLAN NO. 381,382
- SEWER SERVICE LATERAL PER DETAIL B/5.10
- FLARED END SECTION PER DETAIL SHEET 5.00
- CONNECT TO EXISTING WATER STUB WITH HDPE ELECTRO FUSION COUPLING
- STOP SIGN "R1-1" PER MUTCD
- INSTALL RD NAME SIGN PER MUTCD
- 12" STOP BAR PER MUTCD
- ROADSIDE DRAINAGE CHANNEL PER TYPICAL ROADWAY SECTION
- REMOVE EXISTING CULVERT
- 12" DI TEE WITH 8" REDUCER PER APWA PLAN NO. 561,562
- STUB WATERLINE FOR FUTURE CONNECTION PER APWA PLAN NO. 561,562
- 12" MxJFL BUTTERFLY VALVE PER APWA PLAN NO. 561,562
- 8" MxJFL GATE VALVE PER APWA PLAN NO. 561,562
- STUB AND PLUG SEWER LINE FOR FUTURE CONNECTION
- EXISTING POWER CONDUIT VAULTS TO BE RELOCATED
- AIR RELEASE ASSEMBLY PER APWA DRAWING 575 AND SPECIFICATIONS
- INSTALL "NO PARKING" SIGN PER MUTCD

- * SEED MIXTURE FOR REVEGETATION
- a. MEADOW BROME (RIGOR) 14lb/ac
- b. ORCHARD GRASS 10lb/ac
- c. ALFALFA (ADAK) 4lb/ac

APPROVED
WEBER FIRE DISTRICT
 11/19/2013 11:12:32 AM



NO.	BY	DATE	REVISIONS
1	PMC	8/17/2013	ADD/REMOVE I
2	PMC	8/27/2013	UTILITY, GRADING, AND ROBERTY REV

PHASE 1B CONSTRUCTION
GENERAL NOTES, LEGEND, AND KEYNOTES
 PREPARED FOR: SUMMIT, LLC
 DATE SUBMITTED: 11/4/2013

NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
 801743.0300 TEL. 801743.0300 FAX
 MURRAY, UT 84047
 WWW.NV5.COM

SHEET NUMBER
1.01

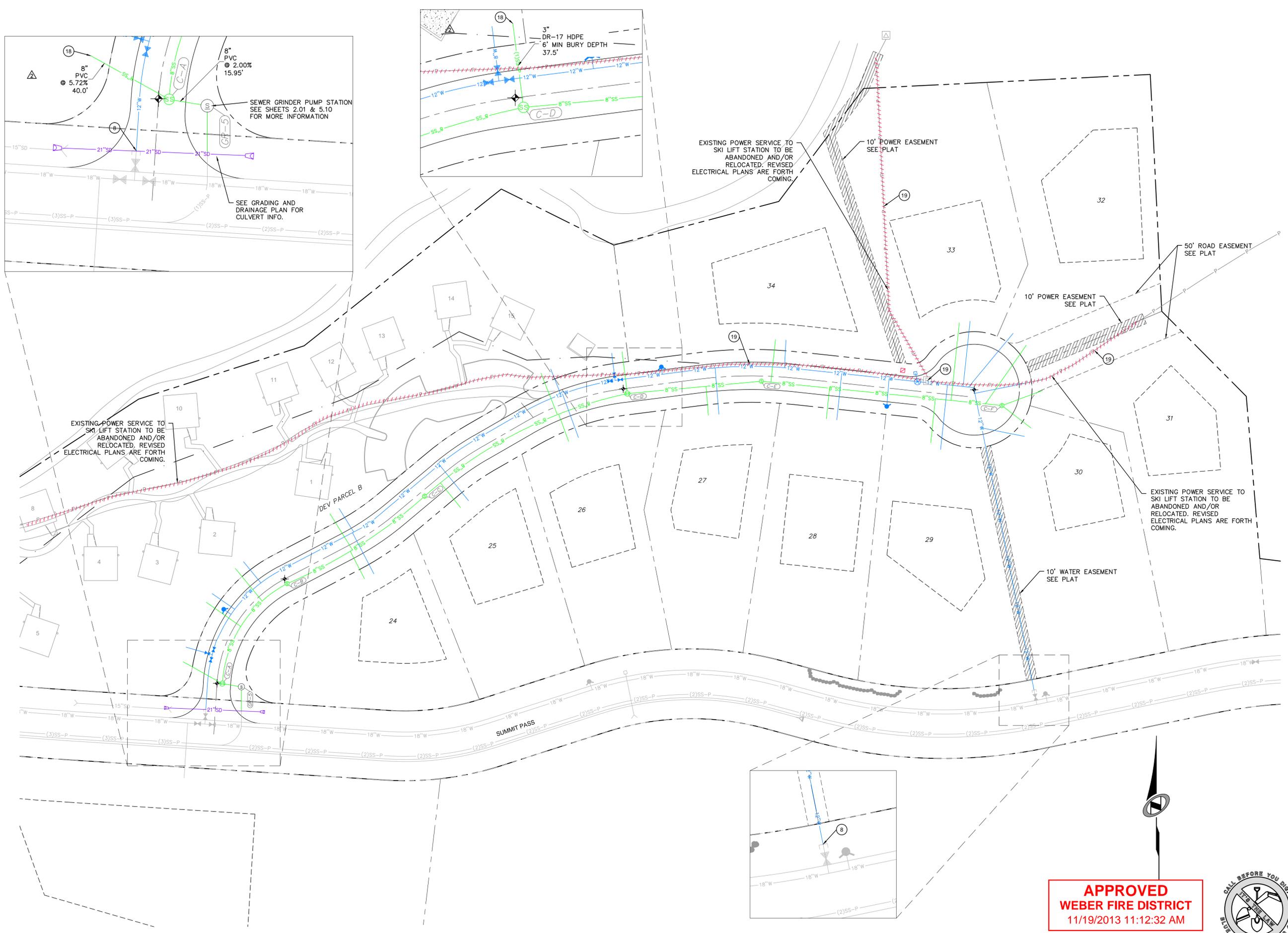
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JOB NUMBER
SLB079306

The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

DATE: 11/4/13 TIME: 12:17:33 PM DRAWING NAME: P10201.DWG
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PREFACE:
 XREFS:



NO.	BY	DATE	REVISIONS
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2	RMC	8/27/2013	UTILITY, GRADING, AND ROCKET REV

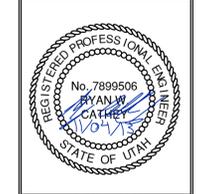
PHASE 1B CONSTRUCTION
OVERALL UTILITY PLAN

DATE SUBMITTED: 11/4/2013

PREPARED FOR: SUMMIT, LLC

NV5
 BEYOND ENGINEERING
 5217 SOUTH STATE STREET, SUITE 200
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 MURRAY, UT 84107
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SHEET NUMBER
1.02

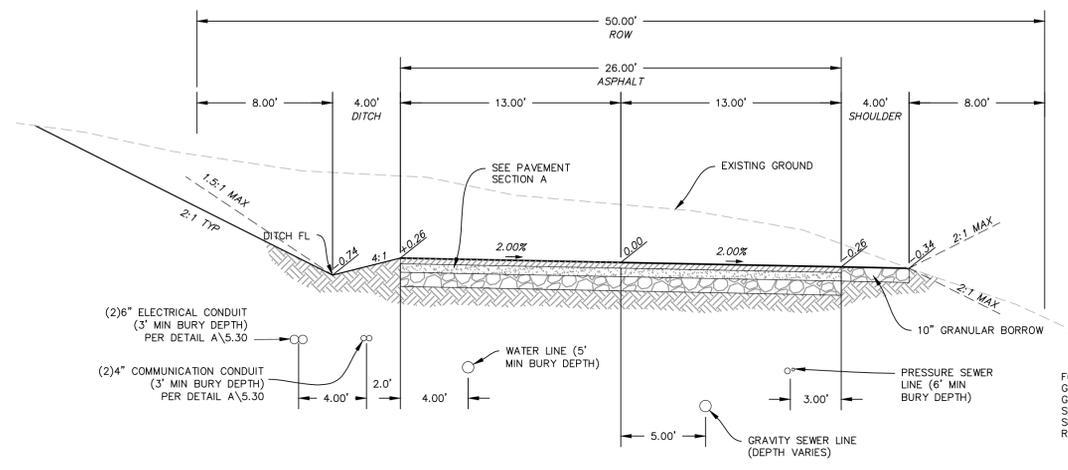


SCALE
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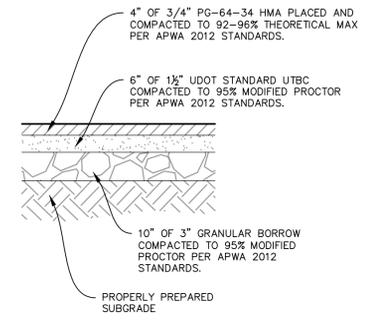
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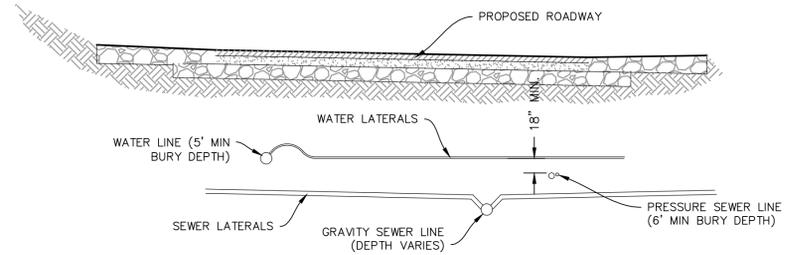


TYPICAL ROADWAY SECTION A-A
 (50' RIGHT OF WAY SECTION)
 STA: 10+00.00 TO 18+14.86



PAVEMENT SECTION A

FOR CUT AND FILL SLOPES GREATER THAN 2:1 REFER TO GEOTECHNICAL REPORT AND SUPPLEMENTAL LETTERS FOR SPECIAL STABILIZATION REQUIREMENTS



WATER AND SEWER SEPARATION DETAIL

NO.	BY	DATE	REVISIONS
1	RHC	8/27/2013	ADD ROW 1
2	RHC	9/24/2013	UTILITY, GRADING, AND ROCKET REV

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PHASE 1B CONSTRUCTION
ROADWAY TYPICAL SECTIONS

DATE SUBMITTED: 11/4/2013

PREPARED FOR: SUMMIT, LLC

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 627 SOUTH STATE STREET, SUITE 200
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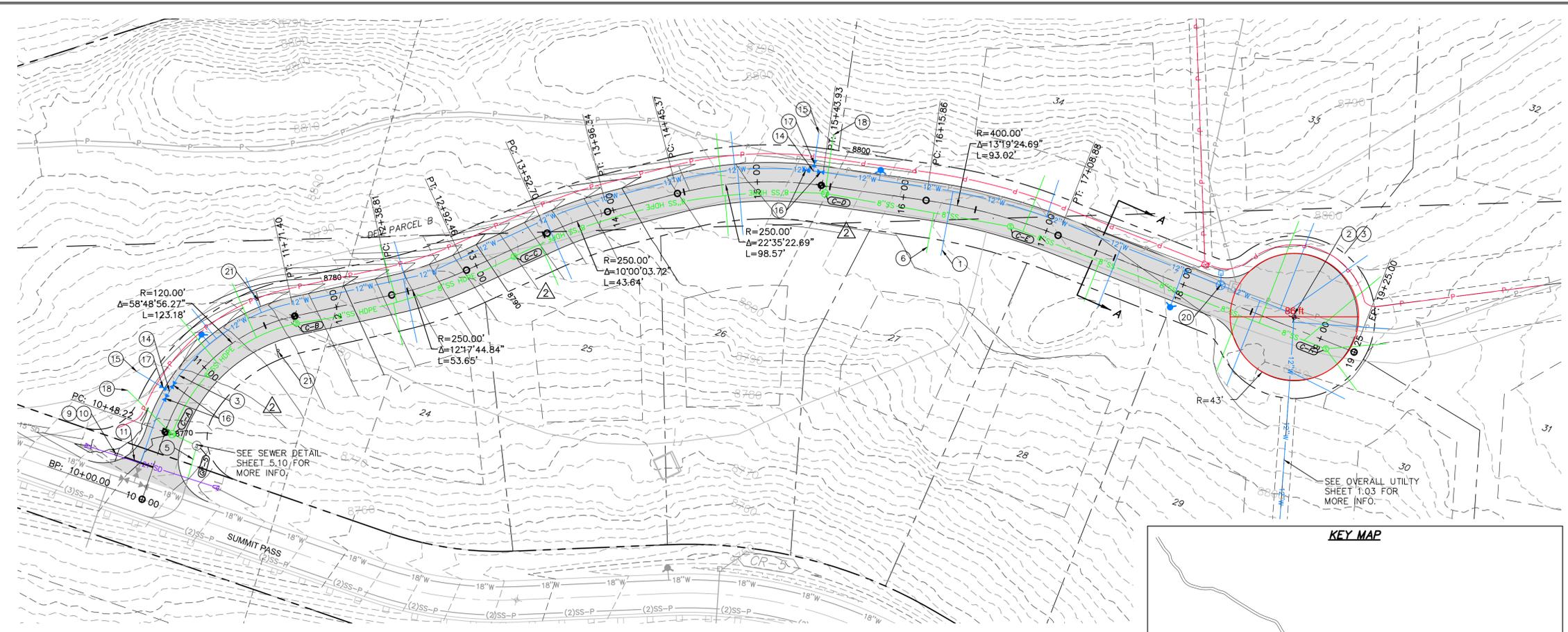
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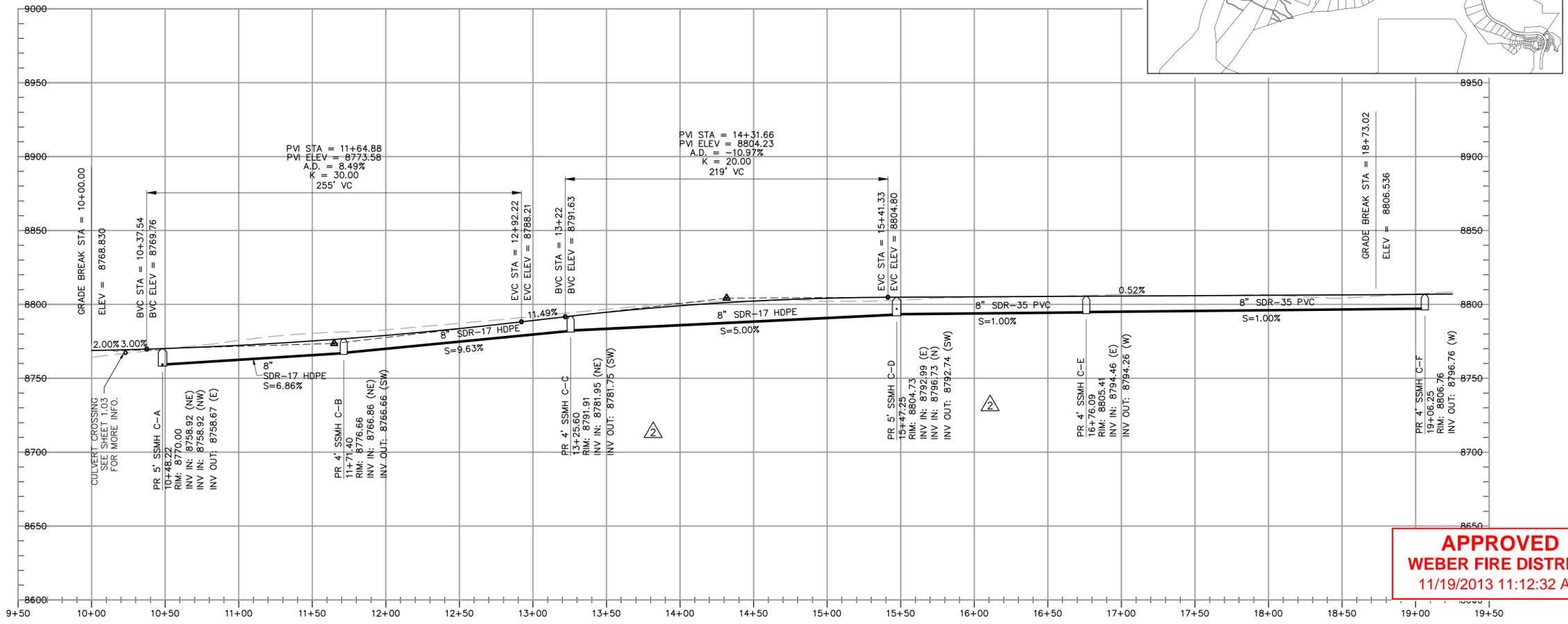
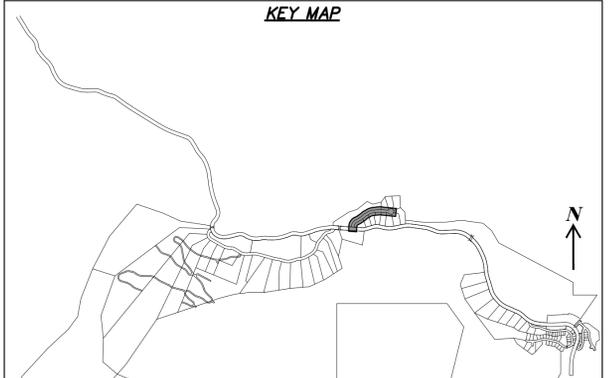
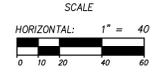
JOB NUMBER
SLB079306

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 11/19/2013 11:12:32 AM





HEARTWOOD DRIVE
 STA: 10+00.00 TO 19+25.00



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 11/19/2013 11:12:32 AM



NO.	BY	DATE	REVISIONS
1	PMC	8/27/2013	ADDITION 1
2	PMC	9/24/2013	UTILITY, GRADING, AND SOCIETY REV

PHASE 1B CONSTRUCTION
PLAN AND PROFILE
HEARTWOOD DRIVE

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 MURRAY, UT 84107
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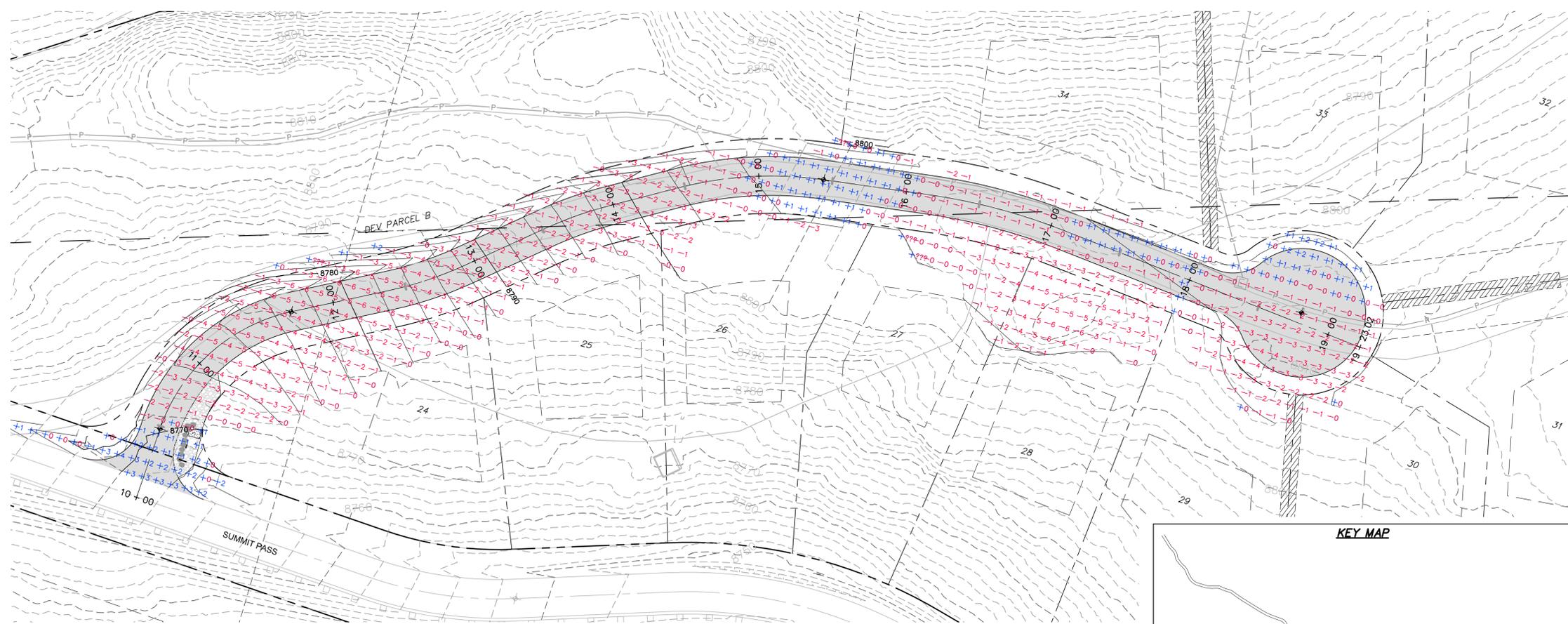
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2.00
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 HORIZONTAL: 1" = 40'
 JOB NUMBER
SLB079306

DATE SUBMITTED: 11/4/2013

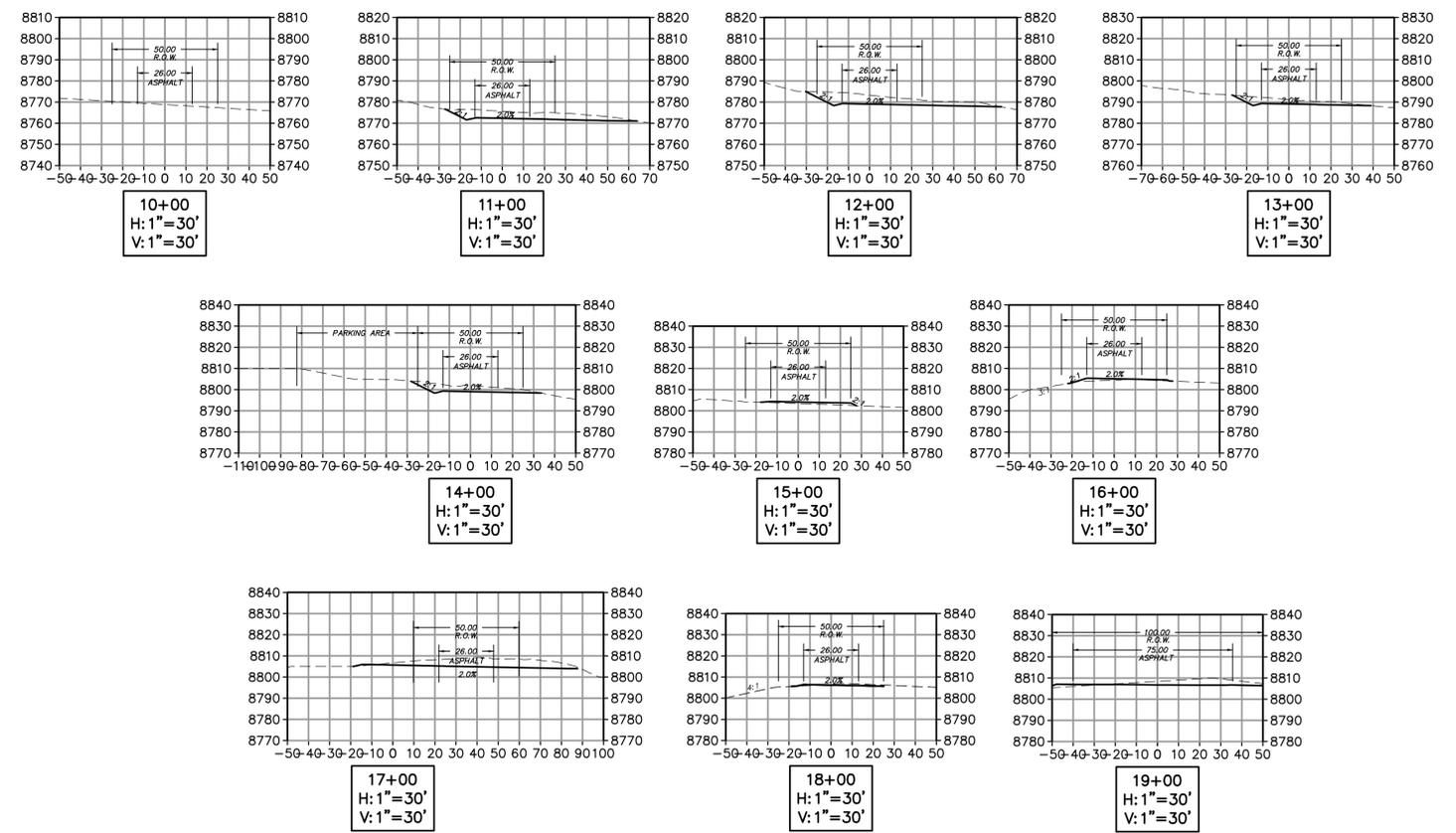
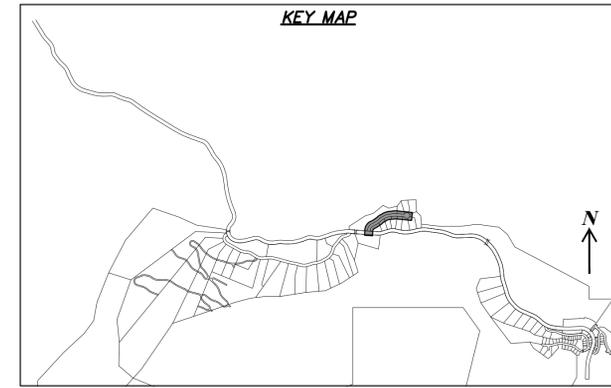
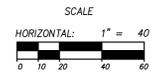
PREPARED FOR: SUMMIT, LLC

CAUTION
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HEARTWOOD DRIVE
 STA: 10+00.00 TO 19+25.00



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 WEBER FIRE DISTRICT
 11/19/2013 11:12:32 AM



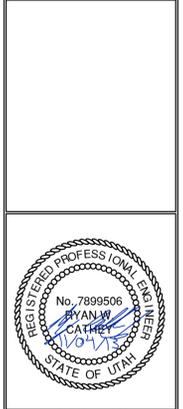
NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADDendum 1
2	RMC	9/24/2013	UTILITY, GRADING, AND SOBBERY REV

PHASE 1B CONSTRUCTION
EARTHWORK AND SECTIONS
HEARTWOOD DRIVE

DATE SUBMITTED: 11/4/2013

PREPARED FOR: SUMMIT, LLC

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 MURRAY, UT 84107
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SHEET NUMBER
3.00

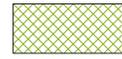
SCALE
 VERTICAL: 1" = 30'
 HORIZONTAL: 1" = 40'

JOB NUMBER
SLB079306

PREFACE
 XREFS:

CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. Any such changes or uses must be approved by the preparer of these plans.

LEGEND



HATCHING INDICATES AREAS TO RECEIVE 4" TOPSOIL AND TO BE SEEDED FOR NATURAL VEGETATION. AREAS RECEIVING SEEDING FOR NATURAL REVEGETATION MUST BE COVERED WITH AN EROSION CONTROL BLANKET AFTER THE FINAL GRADING AND SEEDING ARE FINISHED. INSTALL NORTH AMERICAN GREEN SC-150 BLANKET OR APPROVED EQUAL. FOLLOW MANUFACTURER'S SPECIFICATIONS. INSTALL NORTH AMERICAN GREEN P300 EROSION CONTROL BLANKET ON ALL SLOPES GREATER THAN 1.5:1.



INSTALL 15' X 50' VEHICLE WASH DOWN AREA WITH 1"-2.5" COARSE AGGREGATE PLACED A MINIMUM 8" THICK. SUPPLY WATER FOR VEHICLE WASH DOWN.



STABILIZED CONSTRUCTION ENTRANCE FOR SITE INGRESS/EGRESS. IF ALTERNATE ACCESS POINTS ARE APPROVED BY OWNER, ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES WILL BE REQUIRED.



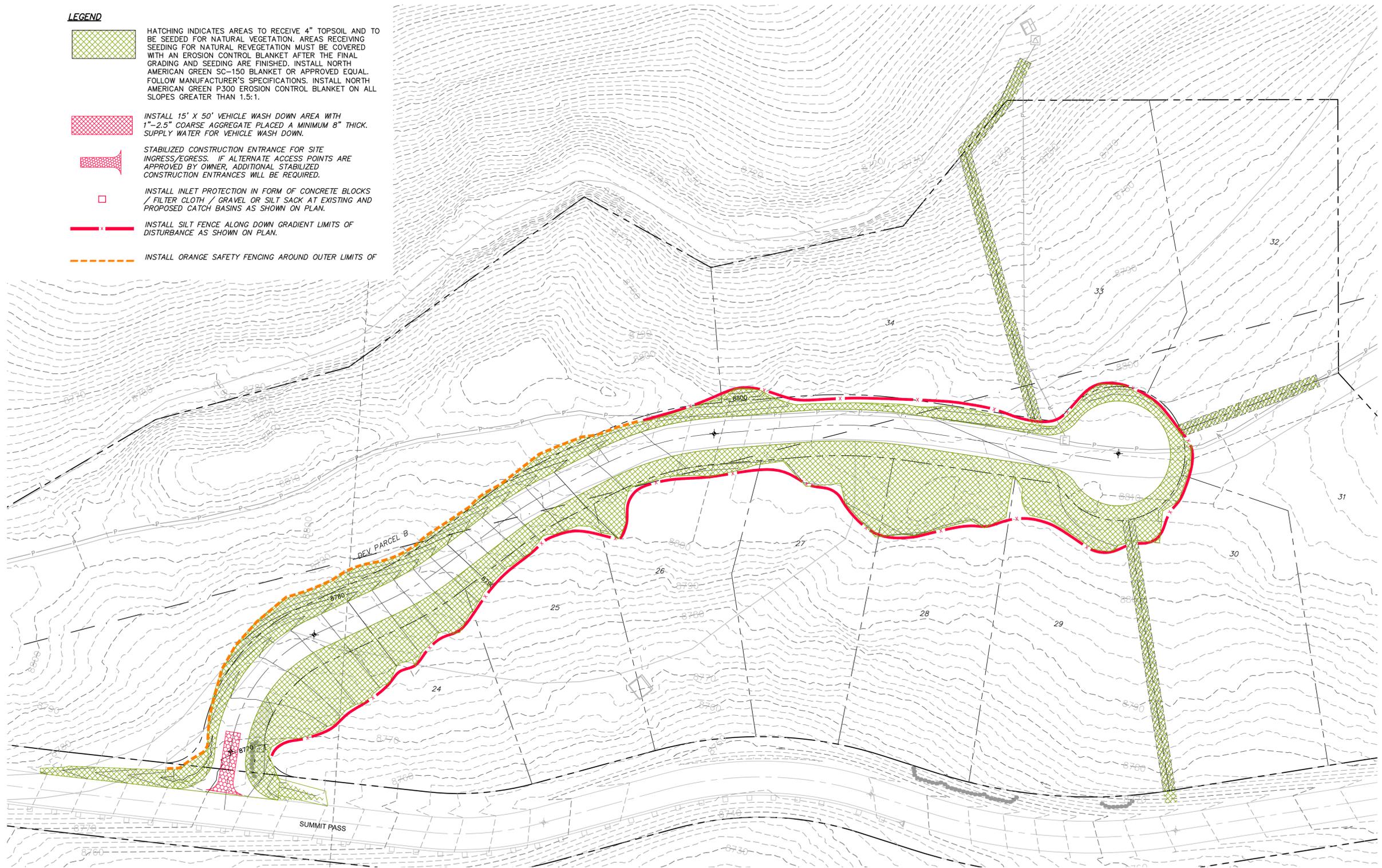
INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN.



INSTALL SILT FENCE ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN.



INSTALL ORANGE SAFETY FENCING AROUND OUTER LIMITS OF



SCALE
 HORIZONTAL: 1" = 40'
 VERTICAL: 1" = 40'

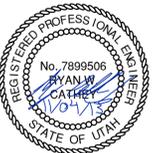
APPROVED
 WEBER FIRE DISTRICT
 11/19/2013 11:12:32 AM



NO.	BY	DATE	REVISIONS
1	RWC	8/27/2013	ADDendum 1
2	RWC	9/24/2013	UTILITY, GRADING, AND ROCKETRY REV

PHASE 1B CONSTRUCTION
EROSION CONTROL PLAN
HEARTWOOD DRIVE

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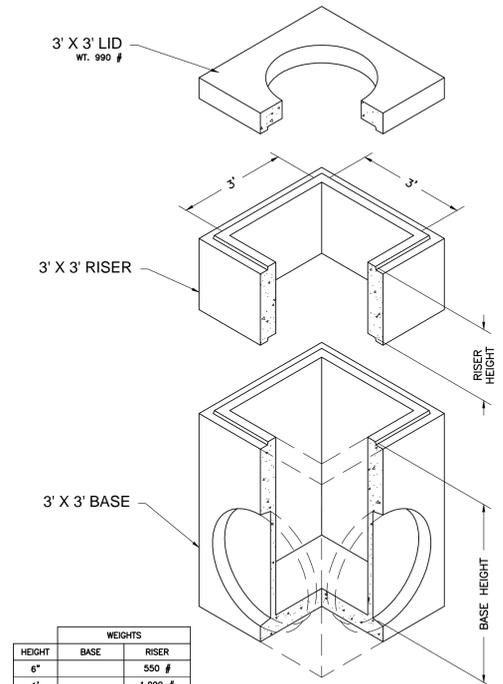
SHEET NUMBER
4.00
 SCALE
 VERTICAL: 1" = 40'
 HORIZONTAL: 1" = 40'
 JOB NUMBER
SLB079306

DATE SUBMITTED: 11/4/2013

PREPARED FOR: SUMMIT, LLC

CAUTION

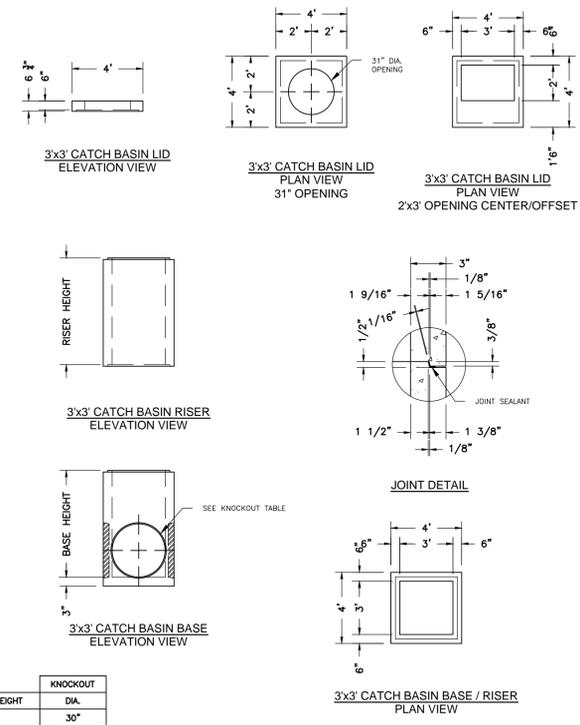
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HEIGHT	WEIGHTS	
	BASE	RISER
6"		550 #
1'		1,099 #
2'		2,198 #
3'	3,171 #	3,297 #
4'	4,796 #	4,207 #
5'	5,896 #	5,259 #
6'	6,994 #	7,894 #

NOTES:
 1. Vault design complies with ASTM C-857 and C-858 with less than 2' of earth cover and an AASHTO HS-20 loading.
 2. Lifting insert type and location may change without notice.

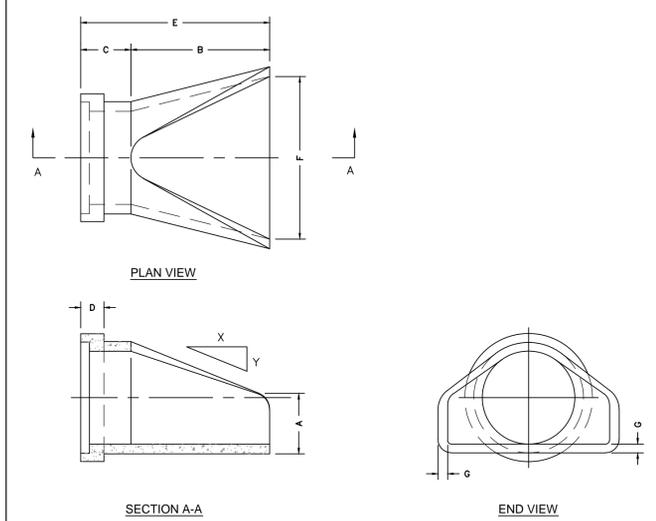
<p>801 West 12th Street, Ogden, Utah 84404 Phone: 801-399-1171 Fax: 801-392-7849</p>	3' x 3' Basin FILE NAME: 2100C3X3CB000 ISSUE DATE: 1/08 www.oldcastleprecast.com	3' x 3' Catch Basin Bases, Risers and lid Copyright © 2008
--	--	--



BASE HEIGHT	DIA.
3'	30"
4'	36"
5'	36"
6'	36"

KNOCKOUTS ARE 4" DEEP

<p>801 West 12th Street, Ogden, Utah 84404 Phone: 801-399-1171 Fax: 801-392-7849</p>	3' x 3' Basin FILE NAME: 2100C3X3CB000 ISSUE DATE: 1/08 www.oldcastleprecast.com	3' x 3' Catch Basin Bases, risers and lid Copyright © 2008
--	--	--



Diam.	Slope X : Y	A	B	C	E	F	G
		12"	24"	48"	72"	24"	2"
15"	2.4 : 1	6"	27"	46"	73"	30"	2 1/2"
18"	2.4 : 1	9"	27"	46"	73"	36"	2 1/2"
24"	2.5 : 1	9 1/2"	43 1/2"	30"	73 1/2"	48"	3"
30"	2.5 : 1	12"	54"	19 1/2"	73 1/2"	60"	3 1/2"
36"	2.5 : 1	15"	63"	34 1/2"	97 1/2"	72"	4"
42"	2.5 : 1	21"	63"	35"	98"	78"	4 1/2"
48"	2.5 : 1	24"	72"	26"	98"	84"	5"

<p>801 West 12th Street, Ogden, Utah 84404 Phone: 801-399-1171 Fax: 801-392-7849</p>	Flared End FILE NAME: 2100PERNDFLARE ISSUE DATE: 5/2008 www.oldcastleprecast.com	Flared End Section for Round Pipe Copyright © 2008
--	--	--

PHASE 1B CONSTRUCTION
STORM DRAIN DETAILS

DATE SUBMITTED: 11/4/2013

PREPARED FOR: SUMMIT, LLC

NV5
 BEYOND ENGINEERING
 527 SOUTH STATE STREET, SUITE 200
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 MURRAY, UT 84107
 WWW.NV5.COM

REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 STATE OF UTAH

SHEET NUMBER
5.00

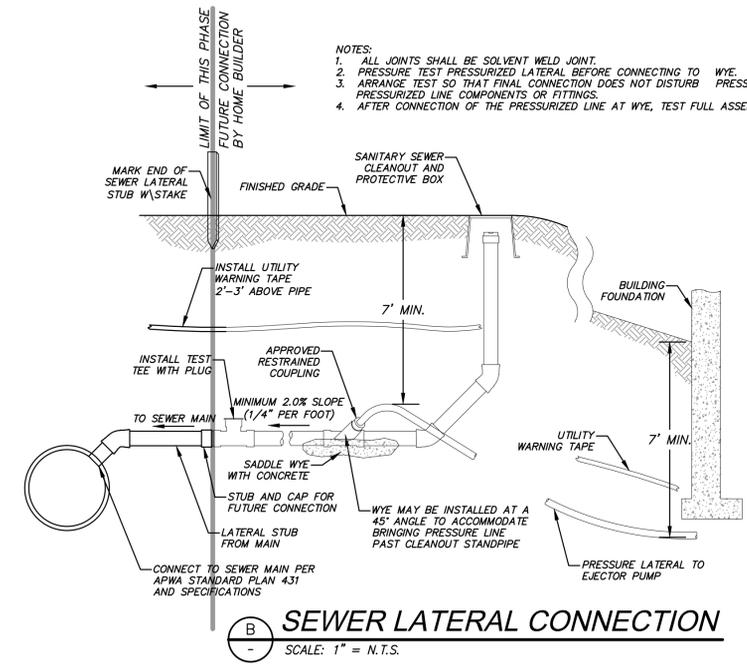
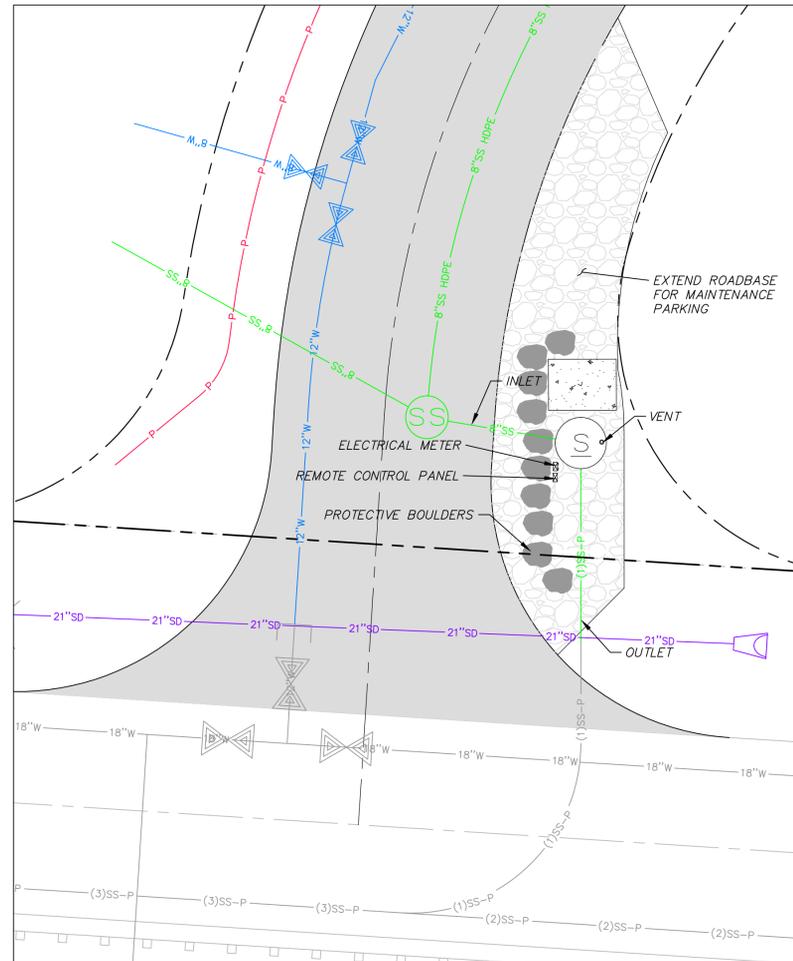
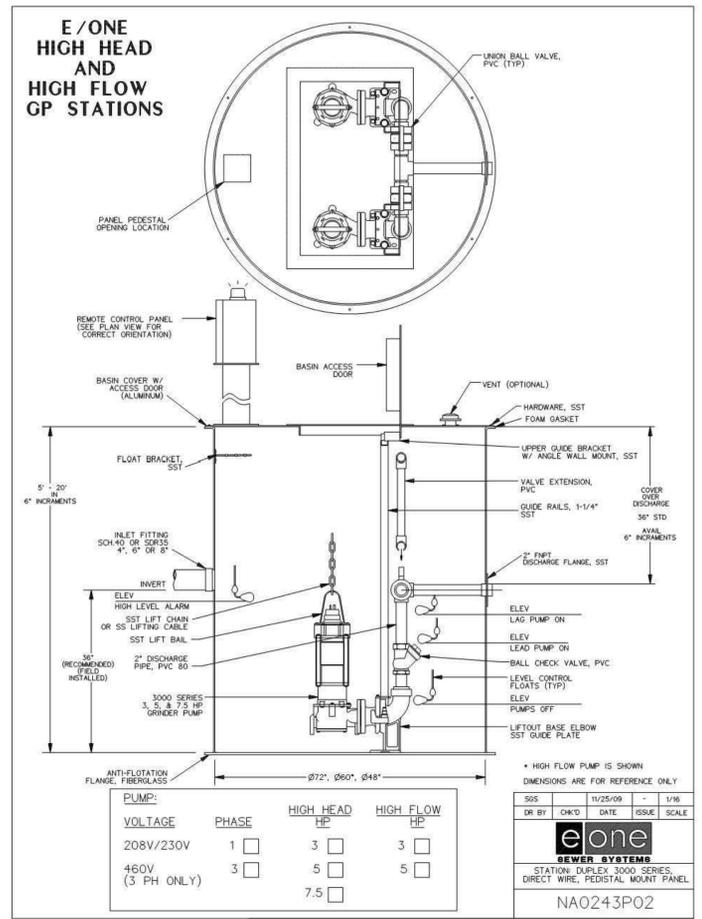
SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = N/A

JOB NUMBER
SLB079306

APPROVED
 WEBER FIRE DISTRICT
 11/19/2013 11:12:32 AM



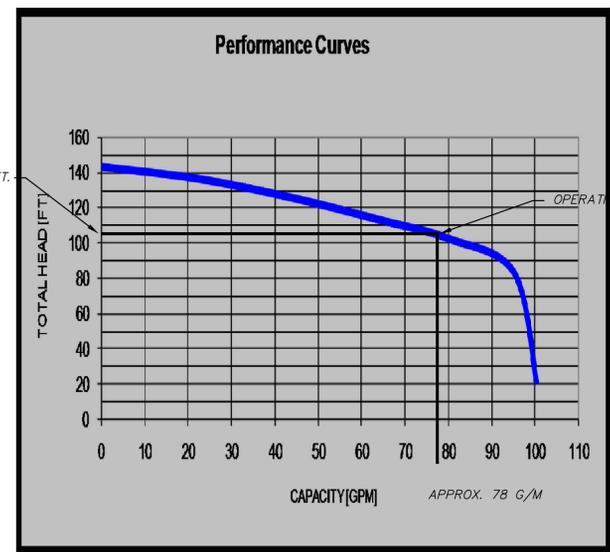
CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans, and must be approved by the preparer of these plans.



PUMP NAME	INVERT IN	INVERT IN SIZE	SUMP ELEV	BASIN DIA.	PUMP HEAD	PUMP HP	DISCHARGE DIA	DISCHARGE VELOCITY	MIN STORAGE VOLUME (gal)	STATION DETAIL	PUMP	PEAK FLOW (GPM)	AUTO DIALER	MAIN POWER TRANSFER SWITCH	POWER
GR-5	8758.30	8"	8753.34	72"	105	5	2.5"	2.18	1050	DUPLX 3000 SERIES	SUBMERSIBLE GRINDER PUMP E-ONE 3H51	75	CELLULAR	MANUAL	1 PHASE/240 VOLT

SEWER GRINDER PUMP DETAILS
 SCALE: 1" = N.T.S.

Grinder Station Calculations	
GR-5	
Head Difference	8754.34-8848.06=93.72 ft.
Pipe Length	1210 ft.
Friction Loss	10.81 ft.
Flow Calc.	(26 units) (3.2 People/household)(100 gallons/day/capita)=5.78 g/m average
Peaking Factor (Ten States Method)	$Q_{peak}/Q_{avg} = 18 + VP/4 + VP = 4.5$ $Q_{peak} = 23.0$ g/m
Pump Curve	See Pump Curve = 40 g/m



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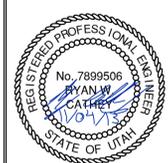


CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans unless they are approved by the preparer of these plans.

PHASE 1B CONSTRUCTION
GRINDER PUMP VAULT
SEWER DETAILS

DATE SUBMITTED: 11/4/2013
 PREPARED FOR: SUMMIT, LLC

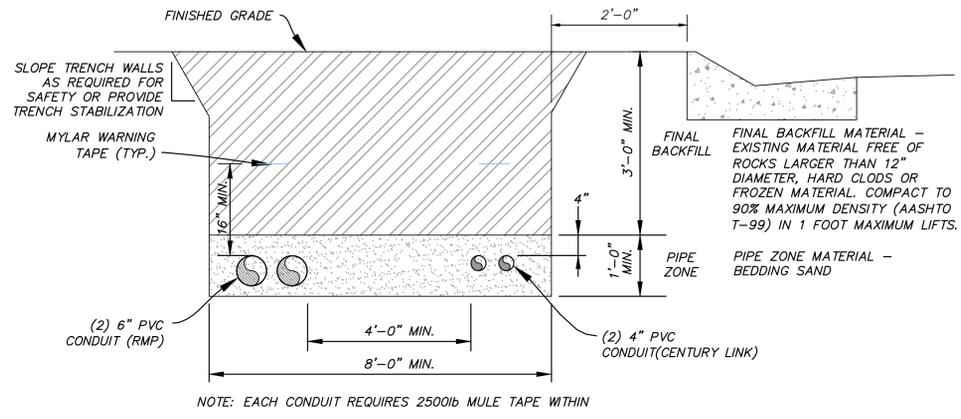
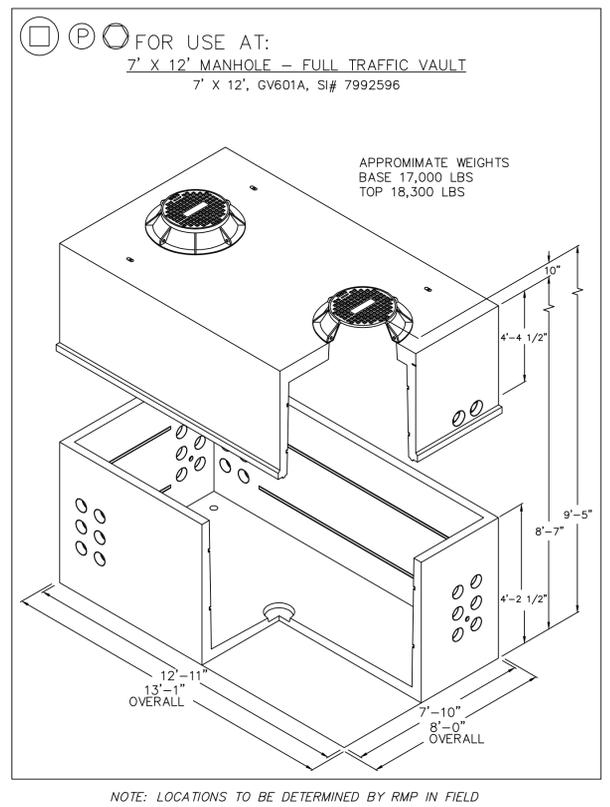
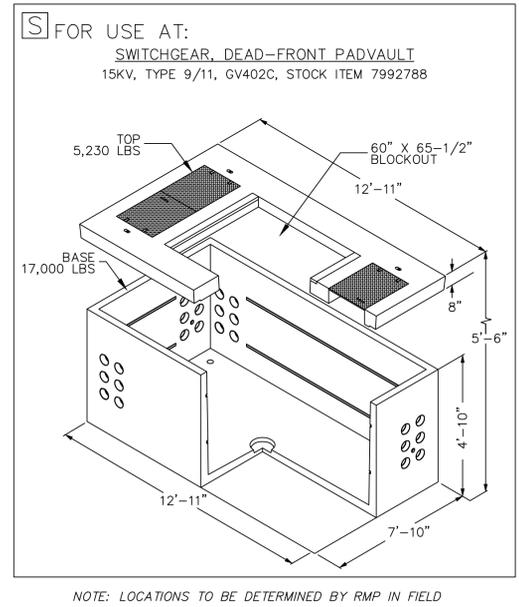
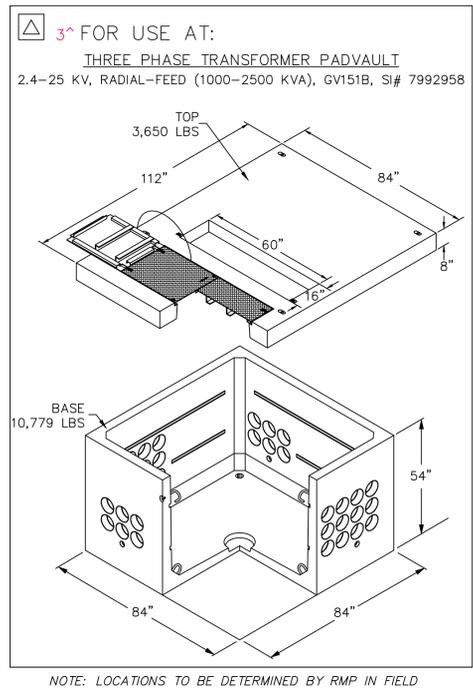
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SHEET NUMBER
5.10

SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = N/A

JOB NUMBER
SLB079306



POWER CONDUIT TRENCH

NO.	BY	DATE	REVISIONS
1	RMC	8/27/2013	ADDendum 1
2	RMC	9/24/2013	UTILITY, GRADING, AND ROCKET REV

PHASE 1B CONSTRUCTION ELECTRICAL DETAILS

DATE SUBMITTED: 11/4/2013

PREPARED FOR: SUMMIT, LLC

NV5
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 5217 SOUTH STATE STREET, SUITE 200
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 MURRAY, UT 84107
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REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 STATE OF UTAH

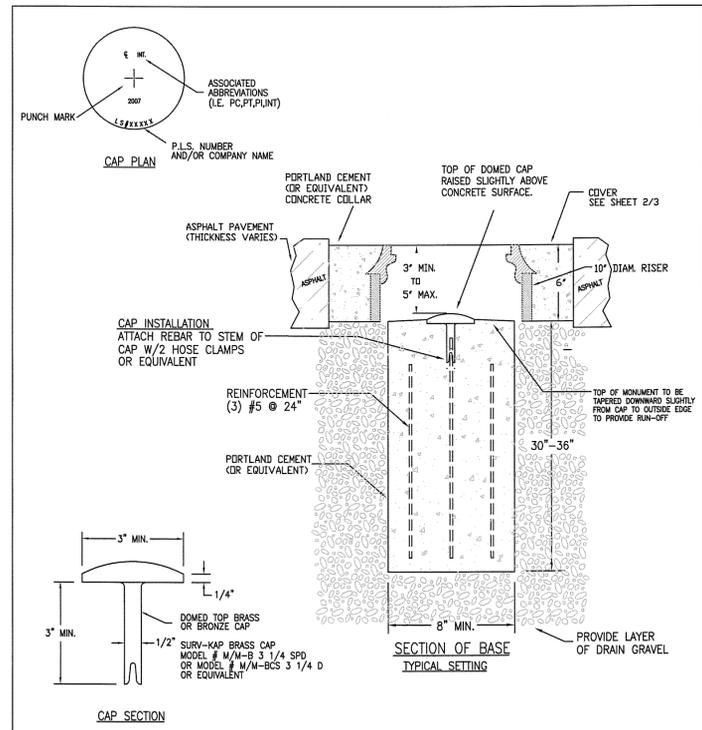
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WEBER FIRE DISTRICT
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SHEET NUMBER
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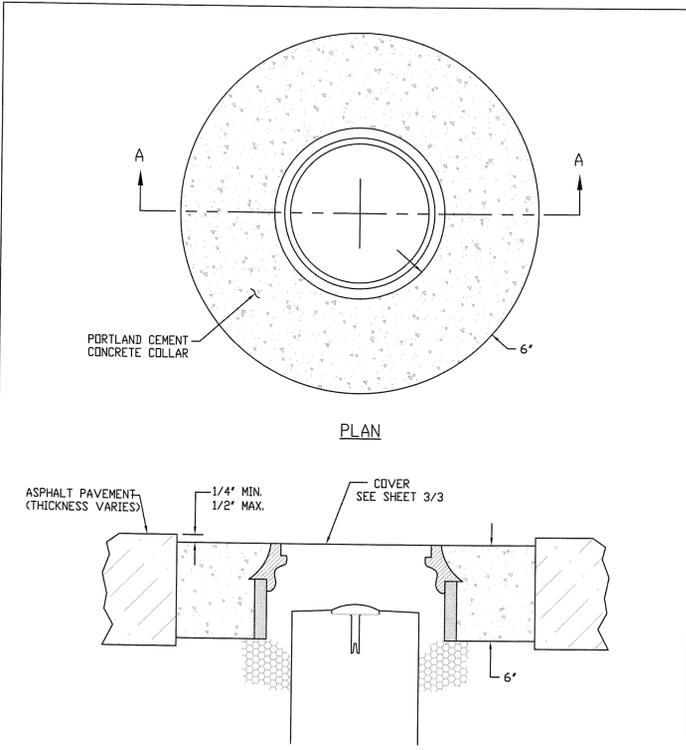
SCALE
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JOB NUMBER
SLB079306

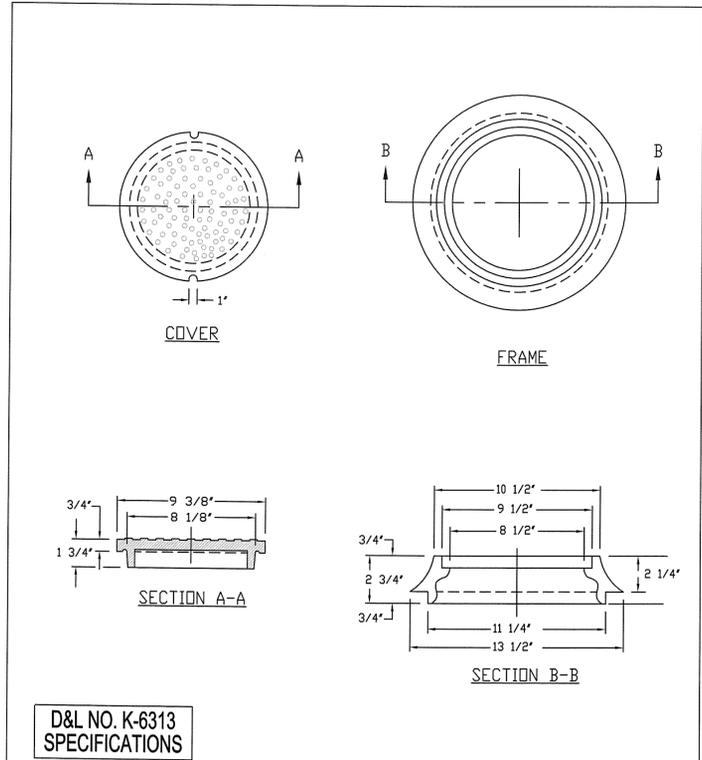


CAP CAN BE PURCHASED FROM SURVEYOR'S OFFICE

WEBER COUNTY SURVEY OFFICE	RING & LID SURVEY MONUMENT	STANDARD PLANS
		Monument Standard
3/28/10	399-8020	SHEET 1 OF 3



WEBER COUNTY SURVEY OFFICE	Cover Collar For Survey Monuments	STANDARD PLANS
		Monument Specifications
3/28/10	399-8020	SHEET 2 OF 3



WEBER COUNTY SURVEY OFFICE	RING & LID SURVEY MONUMENT	STANDARD PLANS
		Monument Specifications
3/28/10	399-8020	SHEET 3 OF 3

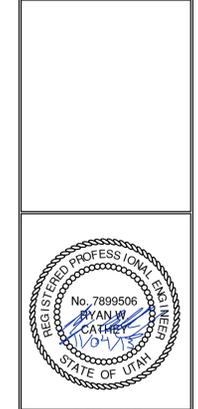
NO.	BY	DATE	REVISIONS
1	RHC	8/27/2013	ADDENDUM 1
2	RHC	8/27/2013	UTILITY, GRADING, AND SOCIETY REV.

PHASE 1B CONSTRUCTION
MISCELLANEOUS DETAILS

DATE SUBMITTED: 11/4/2013

PREPARED FOR: SUMMIT, LLC

NV5
 BEYOND ENGINEERING
 627 SOUTH STATE STREET, SUITE 200
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 MURRAY, UT 84107
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SHEET NUMBER	5.30
SCALE	VERTICAL: 1" = N/A HORIZONTAL: 1" = N/A
JOB NUMBER	SLB079306

APPROVED
 WEBER FIRE DISTRICT
 11/19/2013 11:12:32 AM



ELECTRICAL SYMBOLS LEGEND

	SELECTOR SWITCH 2 POSITION		THERMAL OVERLOAD RELAY
	NORMALLY OPEN TIME DELAY CLOSING AFTER COIL ENERGIZED		DETAIL DESIGNATION
	NORMALLY CLOSED TIME DELAY OPENING AFTER COIL ENERGIZED		DETAIL CALL OUT
	INDICATOR LIGHT		SHEET REFERENCE
	REMOTE DEVICE CONNECTION		GROUND ROD
	CLOSED RELAY CONTACT		GROUND ROD IN GROUND WELL
	OPEN RELAY CONTACT		GROUND RISER FROM THE GROUND PLATE (REBAR)
	TERMINAL TO EXTERNAL REMOTE DEVICE		BOLTED AND WELDED GROUND CONNECTIONS, RESPECTIVELY
	WIRE TERMINAL OR CONNECTION POINT		GROUND CABLE: • EMBEDDED IN CONCRETE • BURIED IN EARTH • EXPOSED
	SINGLE PHASE MOTOR		CONDUIT EXPOSED
	MOTOR OVERLOAD RELAY		CONDUIT RUN UNDERGROUND OR IN CONCRETE
	LIMIT SWITCH		BARE COPPER WIRE IN SLAB OR UNDERGROUND GRID, SIZE AS NOTED
	CONTROL RELAY		TRANSFORMER W/ DELTA-Y AND GROUND
	TRANSFORMER		UTILITY METER
	SELECTOR SWITCH 3 POSITION MAINTAINED CONTACT		UTILITY CT
	LEVEL SWITCH CLOSING ON FALLING LEVEL		MOTOR, HORSEPOWER AS NOTED
	LEVEL SWITCH CLOSING ON RISING LEVEL		CIRCUIT BREAKER
	CONTROL SWITCH PUSHBUTTON, MOMENTARY CONTACT		ELECTRICAL PANEL
	GROUND CONNECTION		FUSE
	FRACTIONAL HP MOTOR		MOTOR STARTER NEMA SIZE AS NOTED
	CONTROL STATION		DISCONNECT SWITCH SIZE AS NOTED
	JUNCTION BOX		GFCI DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE		INCANDESCENT FIXTURE
	LIGHT FIXTURE TYPE AS INDICATED		POLE MOUNTED HID FIXTURE
	FUSED DISCONNECT		ELECTRICAL CONNECTION
	SINGLE LIGHT SWITCH		
	DISCONNECT UNFUSED SIZE NOTED		
	CONTACTOR/STARTER (NO. OF POLES SHOWN)		
	CIRCUIT BREAKER (NO. OF POLES SHOWN)		
	SOLENOID		
	FLOW SWITCH CLOSING ON LOW FLOW		
	PRESSURE SWITCH CLOSING ON RISING PRESSURE		

EQUIPMENT GROUNDING CONDUCTORS

FUSE OR CB SIZE	CB SIZE (COPPER)
15	14
20	12
30	10
40	10
60	10
100	8
200	6
300	4
400	3
500	2
600	1
800	1/0
1000	2/0
1200	3/0
1600	4/0
2000	250
2500	350

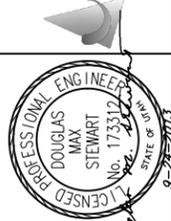
GROUNDING ELECTRODE CONDUCTOR SERVICE ENTRANCE OR SEPARATELY DERIVED SYSTEM

COPPER CONDUCTOR	WIRE SIZE
#2 OR SMALLER	#8
1 OR 1/0	#6
2/0 OR 3/0	#4
>3/0 THRU 350 KCMIL	#2
>350 KCMIL THRU 600 KCMIL	1/0

GENERAL NOTES:

1. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO ENSURE NEC CODE CLEARANCE REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
2. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED BEFORE BEGINNING ROUGH-IN.
3. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH-IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC.
4. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH ELECTRICAL ROOMS OR SPACES; OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN THE OTHER AREAS.
5. ALL PENETRATIONS OF FLOORS, WALLS AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL.
6. FOR PACKAGE EQUIPMENT PROVIDED ON THE PROJECT, SOME CONDUITS AND WIRES ARE SHOWN ON THE DRAWINGS, BUT IT IS EXPECTED THAT SOME ADDITIONAL CONDUITS AND WIRES MAY BE REQUIRED BY EQUIPMENT MANUFACTURERS TO COMPLETE INSTALLATION. IT IS INCUMBENT UPON THE GENERAL CONTRACTOR TO COORDINATE THIS REQUIREMENT WITH HIS SUBCONTRACTORS TO MAKE SURE THAT EQUIPMENT SUPPLIER PROVIDED ALL NECESSARY ELECTRICAL INFORMATION TO ELECTRICAL SUBCONTRACTOR FOR INCLUSION WHETHER SHOWN OR NOT SHOWN ON THE DRAWINGS.
7. IF OTHER THAN FIRST NAMED EQUIPMENT IS USED, IT SHALL BE CAREFULLY CHECKED FOR ELECTRICAL REQUIREMENTS AND CONTROL REQUIREMENTS OF ALTERNATE EQUIPMENT. SHOULD CHANGES OR ADDITIONS OCCUR IN ELECTRICAL WORK, OR THE WORK OF OTHER CONTRACTORS BE REVISED BY THE ALTERNATE EQUIPMENT, THE COST OF ALL CHANGES SHALL BE BORNE BY THE CONTRACTOR.
8. IT IS THE ELECTRICAL SUBCONTRACTOR'S RESPONSIBILITY TO DELIVER THE COMPLETE SET OF PLANS IN ORDER TO INSURE THAT ALL ITEMS RELATED TO ELECTRICAL POWER AND CONTROL SYSTEMS ARE COMPLETELY ACCOUNTED FOR.
9. ALL EQUIPMENT DIMENSIONS SHOWN ON PLANS AND ELEVATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL USE THE SHOP DRAWINGS FOR PROPER LAYOUT, FOUNDATION AND PAD, ETC. FOR FINAL INSTALLATION WITHOUT ANY ADDITIONAL COST TO THE OWNER.
10. THE DRAWINGS DIAGRAMMATICALLY INDICATE THE DESIRED LOCATION AND ARRANGEMENT OF OUTLETS, CONDUIT RUNS, EQUIPMENT AND OTHERS ITEMS. DETERMINE EXACT LOCATIONS IN THE FIELD BASED ON PHYSICAL SIZE AND ARRANGEMENT OF EQUIPMENT, FINISHED ELEVATIONS, AND OTHERS OBSTRUCTIONS. LOCATIONS SHOWN ON THE DRAWINGS, HOWEVER, SHALL BE ADHERED TO AS CLOSELY AS POSSIBLE.

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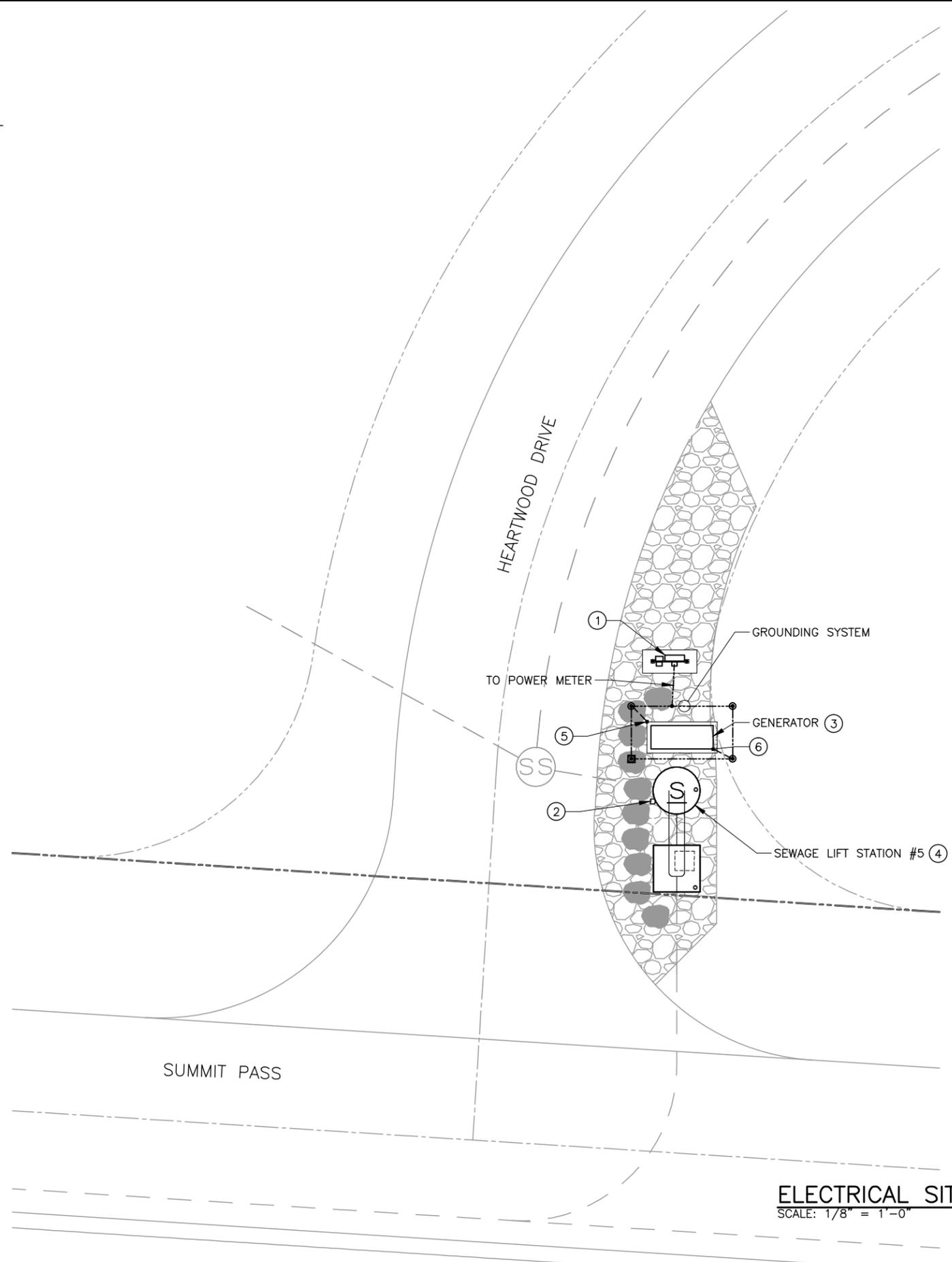


NO.	DATE	REV. BY	DESCRIPTION

VERIFY SCALE BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGN	D. STEWART
DESIGN	D. STEWART
DRAWN	D. LAMPH
REVIEW	D. STEWART
CHECKED	D. STEWART
APPROVED	J. BECKMAN

ELECTRICAL SYMBOLS AND NOTES
 DATE: September 2013
 PROJECT NUMBER 334-13-01



ELECTRICAL SITE PLAN SEWAGE LIFT STATION #5
 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. THE GROUNDING SYSTEM SHALL HAVE A GROUND RING OF 2/0 AWG BARE COPPER BURIED NOT LESS THAN 30" BELOW THE EARTH'S SURFACE. CONNECT REBAR TO THE GROUND RING VIA 2/0 AWG BARE COPPER GROUND CABLE (GROUND RISERS). EQUIPMENT AND MISCELLANEOUS METALWORK SHALL BE CONNECTED TO THE GROUND RING WITH 2/0 AWG BARE COPPER GROUND CABLE. 2/0 AWG CONDUCTOR FROM GROUND RING SHALL CONNECT TO GENERATOR, METER BASE, AND AUTOMATIC TRANSFER SWITCH. THE GROUND RING SHALL BE A MINIMUM OF 2 FEET FROM GENERATOR FOUNDATION WHERE POSSIBLE. REFER TO DETAILS E-5001, E-5002, E-5003.
2. DRAWING SHOWS TYPICAL LOCATIONS OF GROUNDING SYSTEM COMPONENTS.
3. DRAWING SHOWS APPROXIMATE LOCATIONS AND MINIMUM NUMBER OF RISERS AND GROUNDING CONNECTIONS TO BE INSTALLED.
4. REFER TO POWER ONE-LINE DIAGRAM FOR GENERATOR SIZE AND CONDUIT AND CONDUCTOR SIZES.
5. REFER TO POWER ONE-LINE DIAGRAM FOR PUMP SIZES AND QUANTITY. FOR CONDUIT AND CONDUCTOR SIZES REFER TO POWER ONE-LINE DIAGRAM AND CONTROL BLOCK DIAGRAM.

KEY NOTES:

- ① SEWAGE LIFT STATION CONTROL PANEL, AUTOMATIC TRANSFER SWITCH, POWER METER, AND POWER PANEL. REFER TO POWER ONE-LINE DIAGRAM AND CONTROL BLOCK DIAGRAM FOR SIZES AND MORE INFORMATION. REFER TO DETAIL E-5073 FOR MOUNTING INFORMATION.
- ② JUNCTION BOX TO CONNECT PUMP CABLES AND LEVEL SWITCHES REFER TO DETAIL E-5201
- ③ STANDBY GENERATOR WITH CONCRETE PAD AND GROUND SYSTEM. THE GENERATOR PAD SHALL BE SIZED BY CONTRACTOR FOR GENERATOR REFER TO DETAIL E-5081, APPROXIMATE SIZE IS 9 FEET LONG BY 4 FEET WIDE.
- ④ REFER TO CIVIL DRAWINGS FOR LOCATION AND MECHANICAL DRAWINGS FOR SECTION VIEW OF LIFT STATION.
- ⑤ CONNECT TO REBAR.
- ⑥ CONNECT TO GENERATOR.

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NO.	DATE	REV. BY	DESCRIPTION

SUMMIT AT POWDER MOUNTAIN
PHASE 1B
 POWDER MOUNTAIN, UT

VERIFY SCALE
 BAR IS ONE INCH ON ORIGINAL DRAWING

DESIGN: D. STEWART
 CHECKED: D. STEWART
 DRAWN: D. LAMPH
 APPROVED: J. BECKMAN

ELECTRICAL
**ELECTRICAL SITE PLAN
 SEWAGE LIFT STATION
 NUMBER 5**

PROJECT NUMBER: 334-13-01
 DATE: September 2013

DRAWING NO.
F-2

SHEET **2** OF **5**

THE ORIGINAL DRAWING WAS STAMPED BY DOUGLAS MAX STEWART REGISTERED P.E. UTAH 173312

NO.	DATE	REV. BY	DESCRIPTION
1	10/2013	PMS	ADDENDUM NO. 1

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

REVIEW
CHECKED D. STEWART
APPROVED D. STEWART

DESIGN
DESIGN T. BIRD
DRAWN D. LAMPH

**SEWER LIFT STATION #5
POWER ONE-LINE
DIAGRAM**

DRAWING NO.
F-3

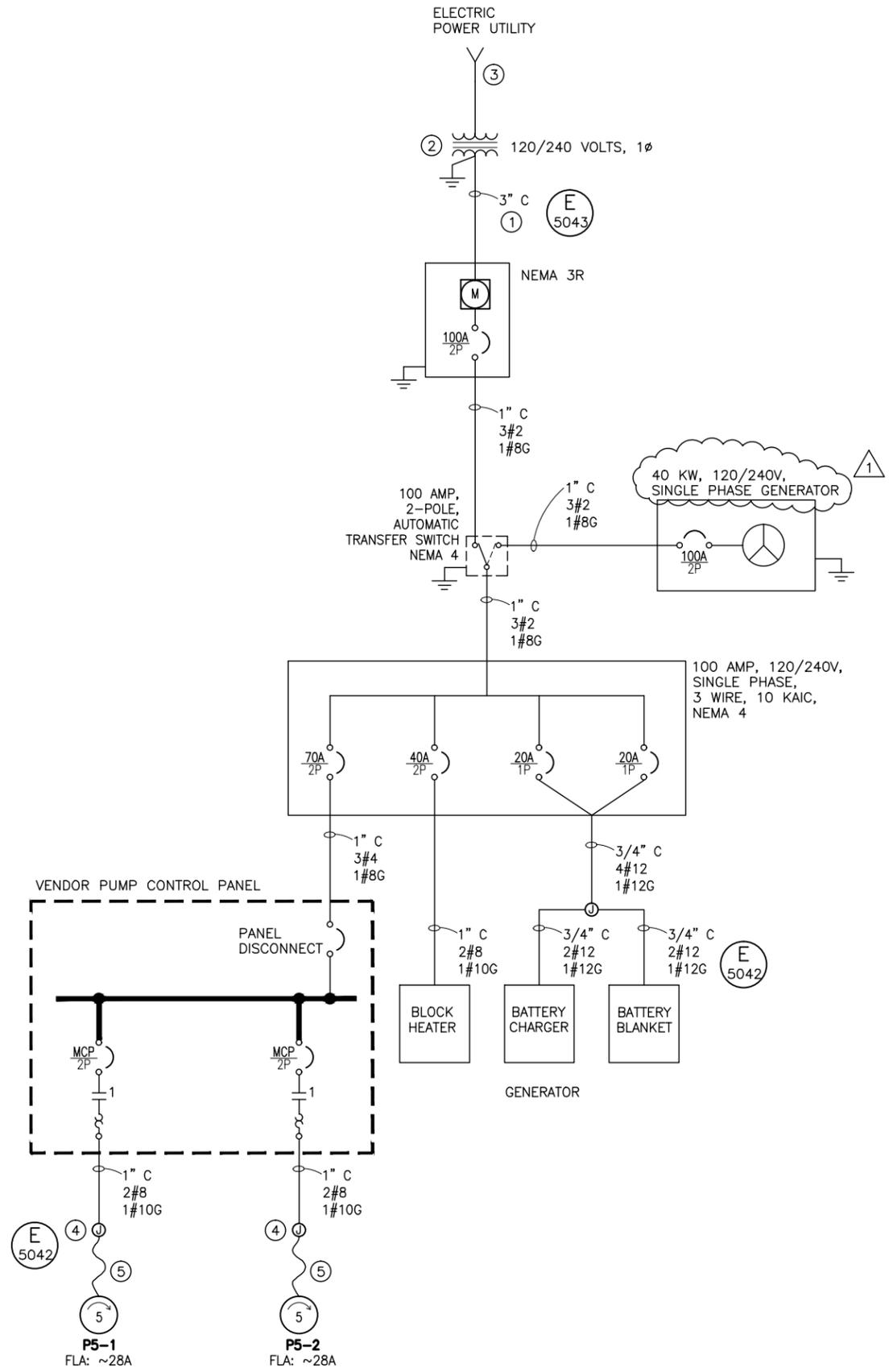
SHEET 3 OF 5

GENERAL NOTES:

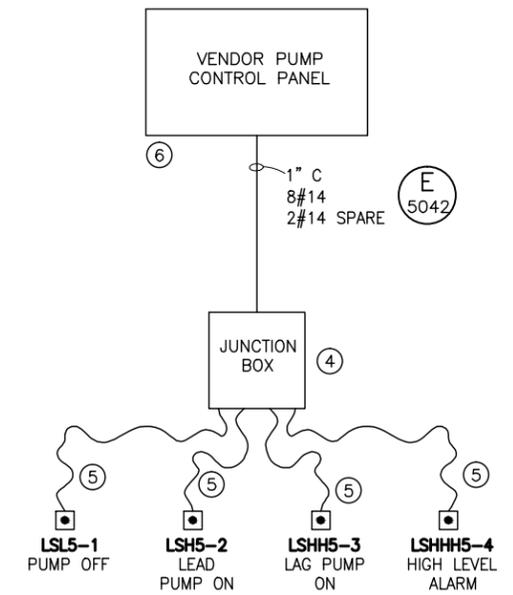
- REFER TO SITE PLAN FOR EQUIPMENT LOCATION.

KEY NOTES:

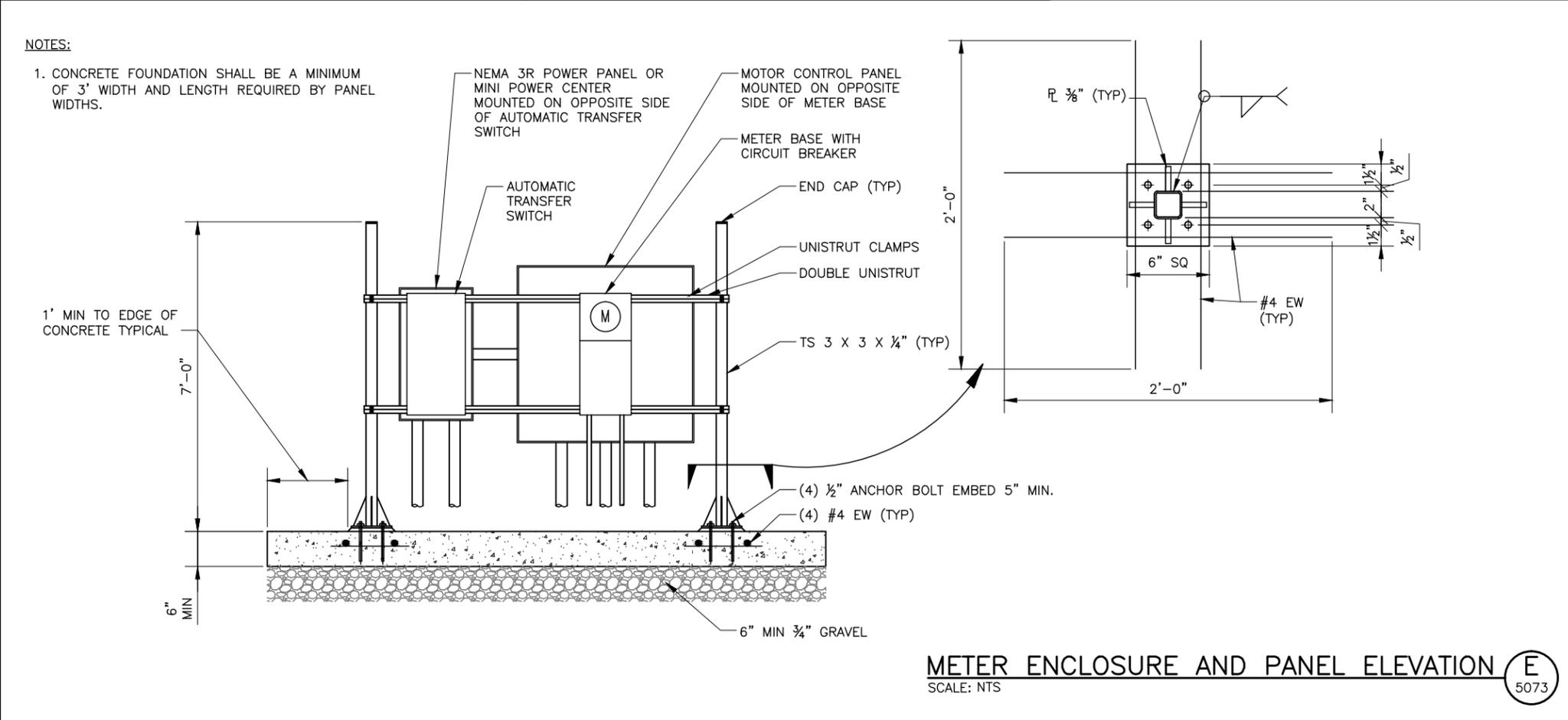
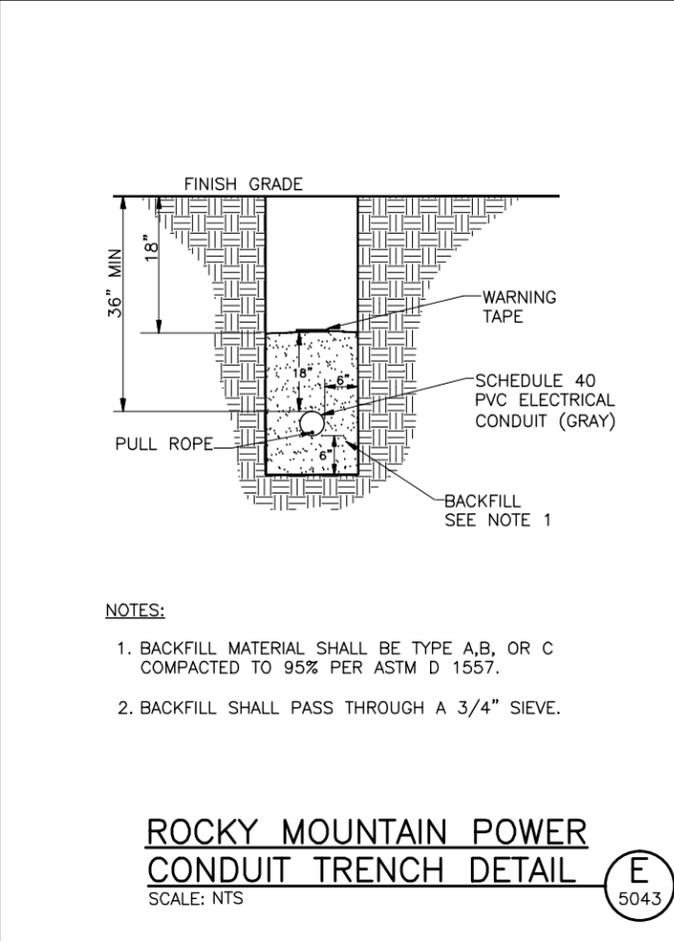
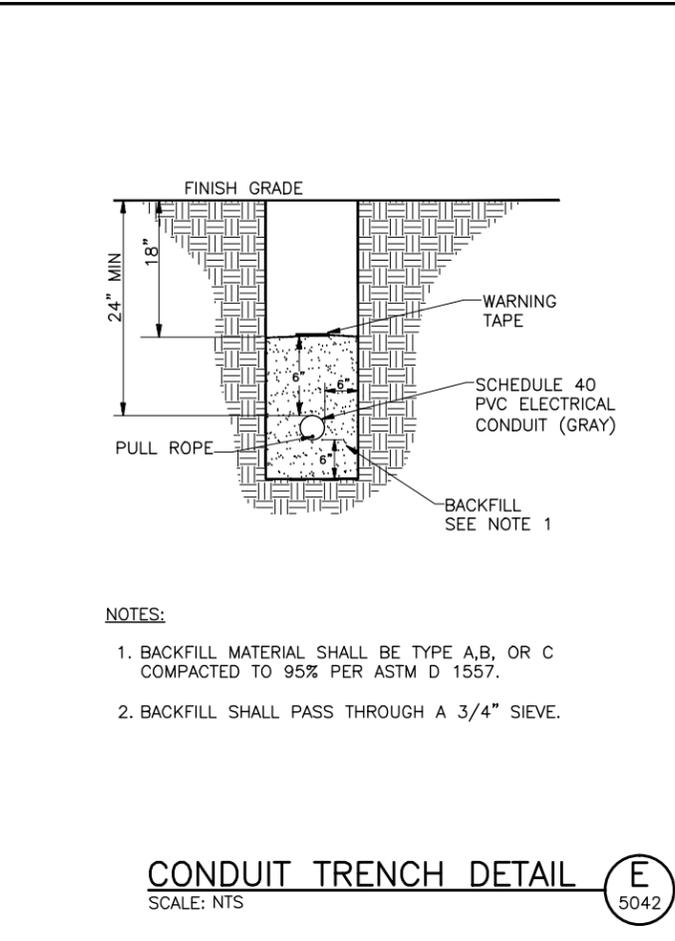
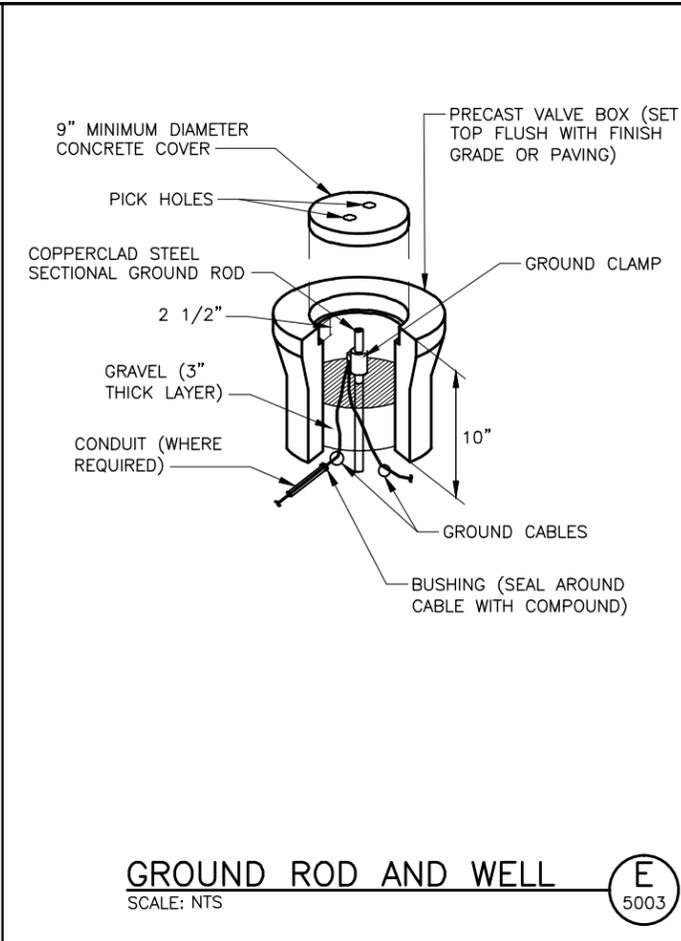
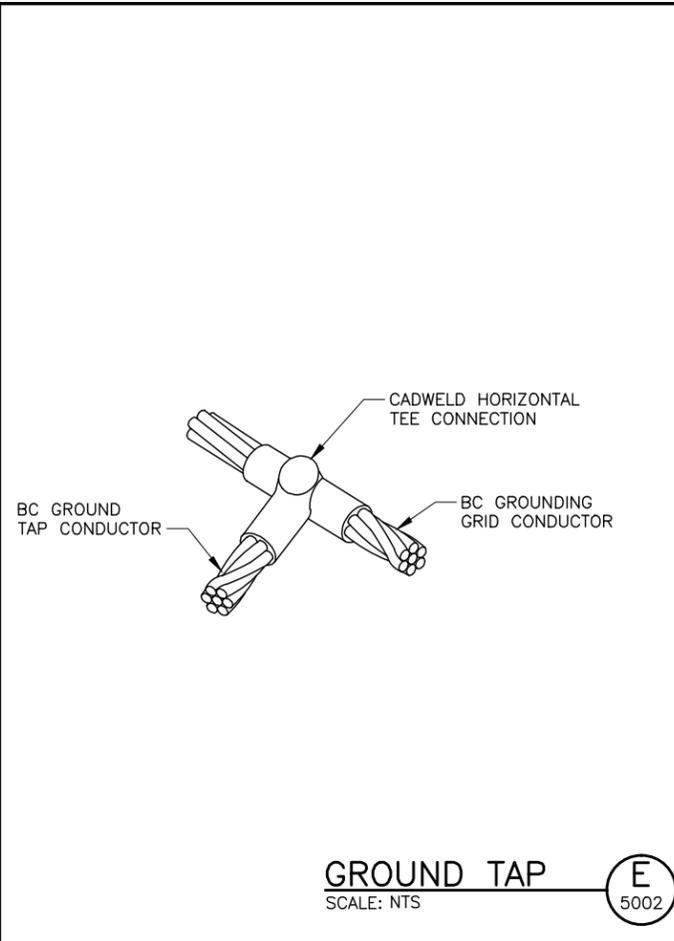
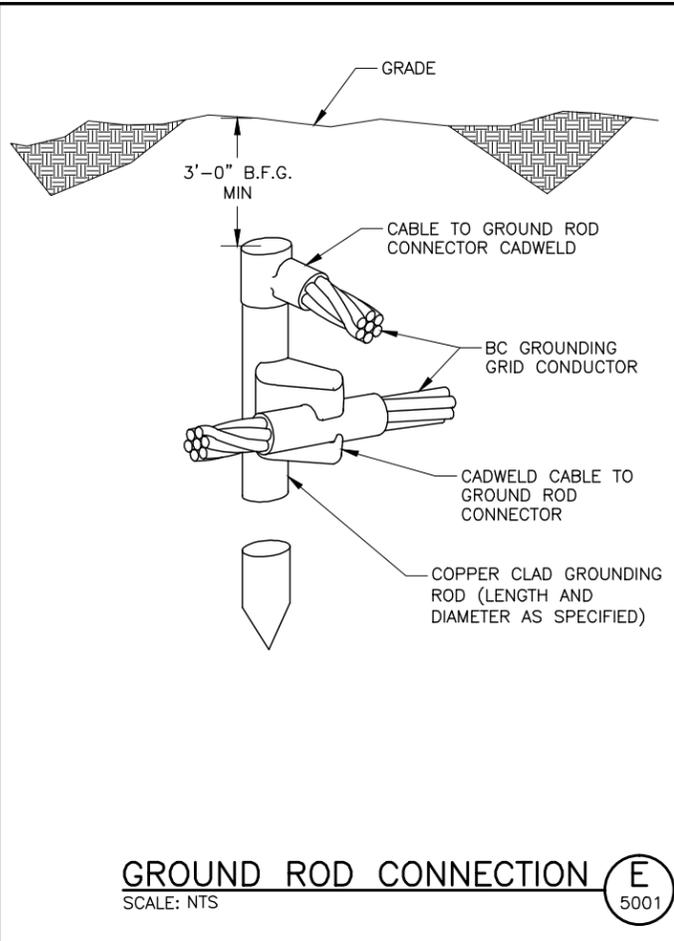
- CONTRACTOR SHALL PROVIDE AND INSTALL CONDUIT IN ACCORDANCE WITH ROCKY MOUNTAIN POWER REQUIREMENTS. CONDUCTORS SHALL BE INSTALLED BY ROCKY MOUNTAIN POWER.
- PROVIDED AND INSTALLED BY ROCKY MOUNTAIN POWER.
- PROVIDED AND INSTALLED BY DEVELOPER.
- HAZARDOUS LOCATION JUNCTION BOX AND CONDUIT SEAL REFER TO DETAIL E-5201.
- MANUFACTURER'S CABLE.
- PROVIDE AND INSTALL AN INTRINSICALLY SAFE BARRIER FOR EACH LEVEL SWITCH. THE LEVEL SWITCHES SHALL BE MADE FOR LOW ENERGY CIRCUITS TO BE USED IN A HAZARDOUS LOCATION, ANCHOR SCIENTIFIC TYPE GSI - GOLD OR EQUAL.



POWER ONE-LINE DIAGRAM #5



CONTROL BLOCK DIAGRAM #5



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CONSULTING ENGINEERS

PROFESSIONAL ENGINEER
DOUGLAS MARK STEWART
No. 173512
STATE OF UTAH

REVISIONS

NO.	DATE	REV. BY	DESCRIPTION

VERIFY SCALE
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DESIGN: D. STEWART
DRAWN: D. LAMPH
CHECKED: D. STEWART
APPROVED: J. BECKMAN

SUMMIT AT POWDER MOUNTAIN
PHASE 1B
POWDER MOUNTAIN, UT

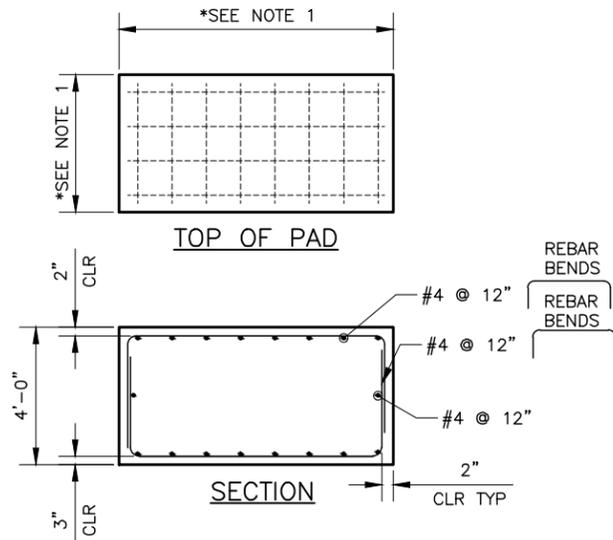
ELECTRICAL

ELECTRICAL DETAILS - 1

DATE: September 2013
PROJECT NUMBER: 334-13-01

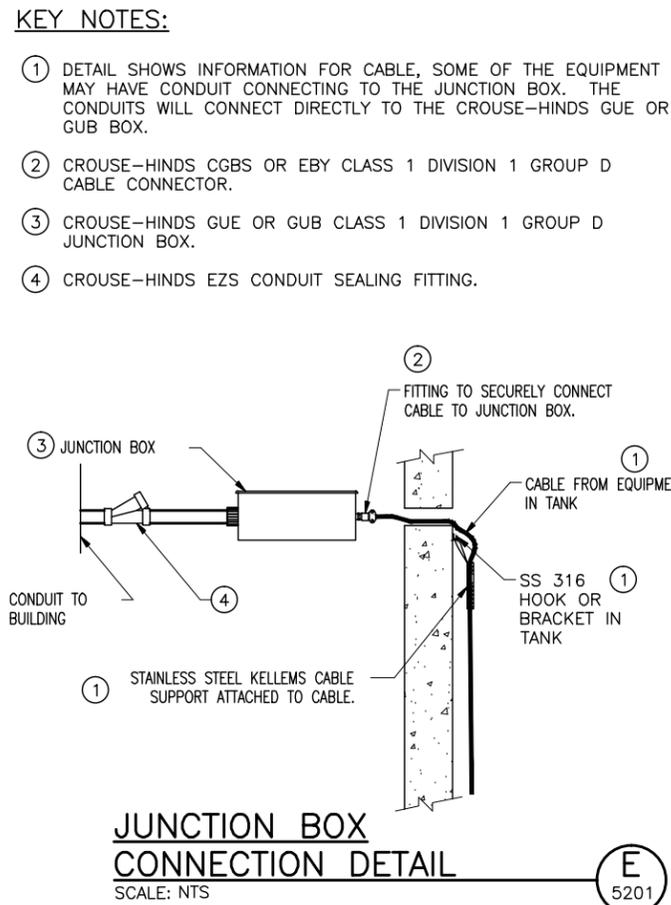
DRAWING NO. **GE-1**

SHEET **4** OF **5**

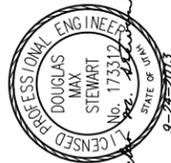


NOTES:
 1. THE LENGTH AND WIDTH OF THE GENERATOR PAD WILL BE SIZED AS NEEDED TO ACCOMMODATE THE GENERATOR WITH AN ADDITIONAL EIGHT INCHES OF SPACE ON ALL SIDES. ANCHOR GENERATOR TO CONCRETE PAD WITH FOUR 5/8" EPOXY ANCHORS, MINIMUM 4" EMBEDDED INTO CONCRETE.

CONCRETE GENERATOR PAD (E) 5081
 SCALE: NTS



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 CONSULTING ENGINEERS



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DESIGN	D. STEWART
DRAWN	D. LAMPH
REVIEW	CHECKED D. STEWART
	APPROVED J. BECKMAN

ELECTRICAL
ELECTRICAL DETAILS - 2
 DATE: September 2013
 PROJECT NUMBER: 334-13-01

DRAWING NO.
GE-2
 SHEET 5 OF 5