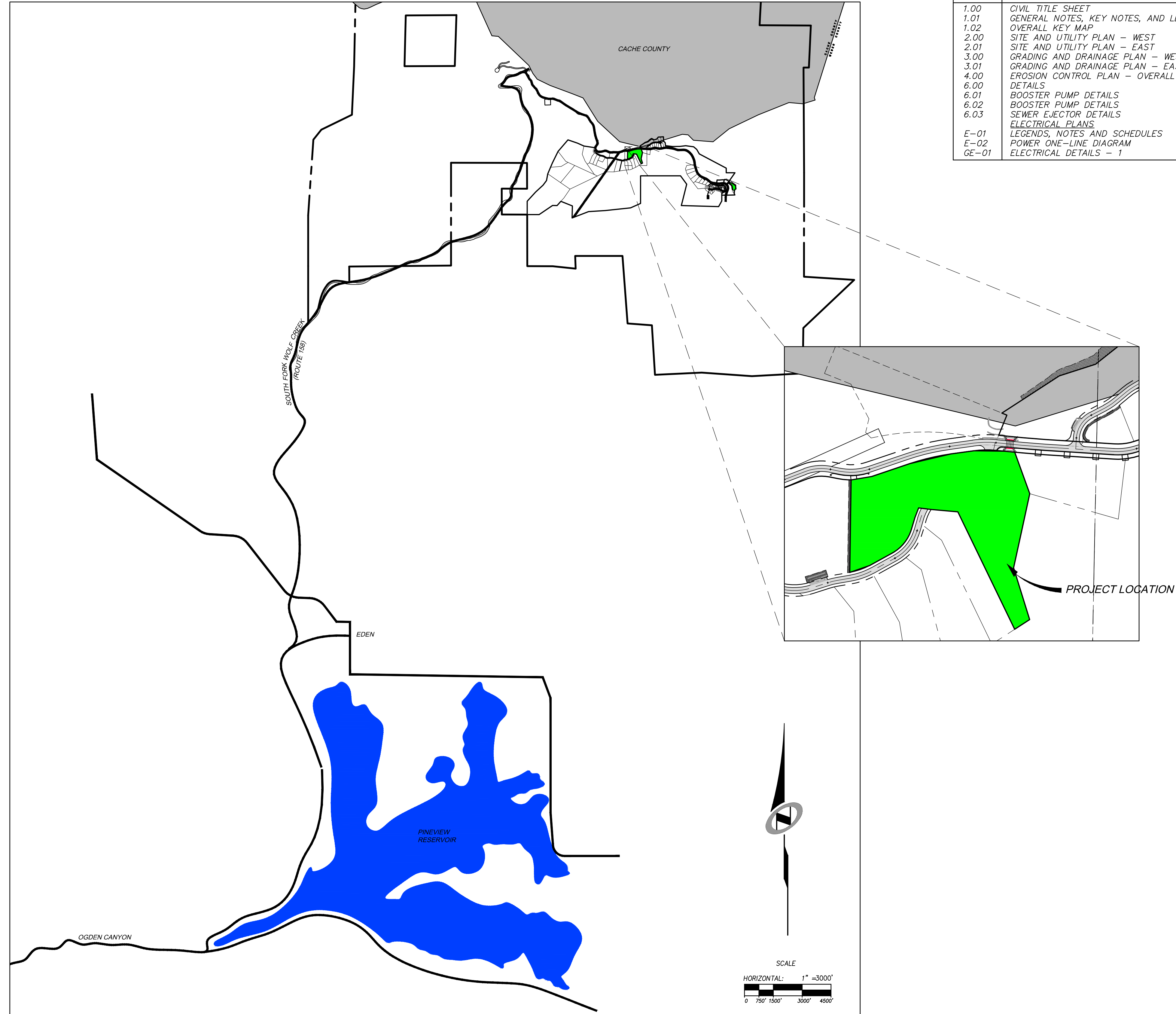


HORIZON NEIGHBORHOOD PRUD AT SUMMIT POWDER MOUNTAIN CONSTRUCTION DRAWINGS

Located in Sec 08 T7N R2E
Weber County, Utah



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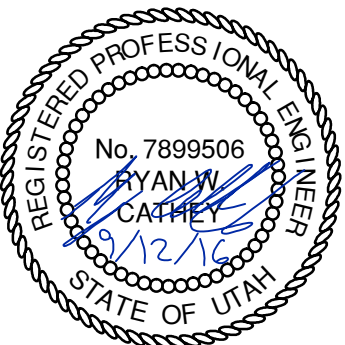
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 PATH: N:\S\B0793\CAD\HORIZON VILLAGE VP DESIGNER: HHH PROJ. NO: HHH

BOWDEN
XREFS:

HORIZON NEIGHBORHOOD PRUD
CIVIL TITLE SHEET

NV5

6217 SOUTH STATE STREET, SUITE 200
801743.8000 TEL. 801743.0900 FAX



SHEET NUMBER
1.00

SCALE
VERTICAL: 1" = N/A
HORIZONTAL: 1" = 3000'

JOB NUMBER
SLB0793

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 specifically approved by the preparer of these plans.

DATE SUBMITTED: 09-12-2016

PREPARED FOR: SUMMIT POWDER MOUNTAIN

MURRAY, UT 8407
WWW.NV5.COM



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 AND 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 REGULATORY 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.

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 11-800-662-4111 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 LID 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.
- UNLESS 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.

LEGEND:

SYMBOL / LINETYPE	DESCRIPTION	DETAIL
	8" C-900 PVC WATER PIPE (UNLESS NOTED OTHERWISE)	APWA PLAN NO. 381,382
	6" DR7.3 HDPE PIPE (UNLESS NOTED OTHERWISE)	APWA PLAN NO. 521
	PROPOSED WATER METER	APWA PLAN NO. 552 AND DETAIL D, SHEET 6.00
	1 1/2" WATER LATERAL	APWA PLAN NO. 381,382
	8" SDR35 PVC SEWER PIPE	APWA PLAN NO. 381,382
	1.5" PRESSURE SEWER PIPE- DR-11 IPS	APWA PLAN NO. 431 AND DETAIL D, SHEET 6.00
	4" SANITARY SEWER LATERAL	
	PROPOSED GAS MAIN	
	PROPOSED GAS METER	
	PROPOSED GAS LATERAL	
	PROPOSED ELECTRICAL CONDUIT	
	PROPOSED FIRE HYDRANT ASSEMBLY/STAND PIPE	APWA PLAN NO. 511
	PROPOSED SEWER CLEANOUT	
	PROPOSED SEWER MANHOLE	
	PROPOSED PAVEMENT SECTION	APWA PLAN NO. 315
	ADJOINING PROPERTY BOUNDARY	PER IGES GEOTECH REPORT 11/09/12
	FUTURE IMPROVEMENTS	
	PROPOSED LOT LINE	
	PROPOSED 6" WATER PIPE	
	PROPOSED SEWER PIPE	
	PROPOSED EDGE OF TRAVEL	
	PROPOSED COMMUNICATION LINE	
	EXISTING 10" WATER PIPE	
	EXISTING ELECTRICAL CONDUIT	

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

EROSION CONTROL GENERAL NOTES:

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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.

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:

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

*** SEED MIXTURE FOR REVEGETATION**

- MEADOW BROME (RIGOR) 14lb/ac
- ORCHARD GRASS 10lb/ac
- ALFALFA (ADAK) 4lb/ac

WEBER COUNTY

2380 WASHINGTON BLVD. #240
 OGDEN, UT 84401
 (801) 399-8374

ROCKY MOUNTIAN POWER

1438 WEST 2550 SOUTH
 OGDEN, UT 84401
 (801) 629-4429

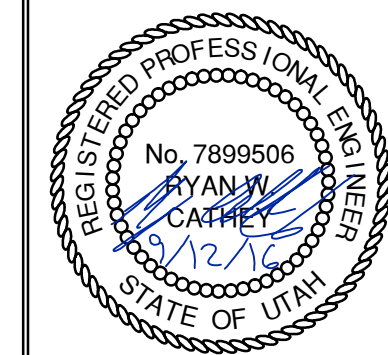
POWDER MOUNTAIN WATER & SEWER DISTRICT

PO BOX 270
 EDEN, UT 84310
 (801) 745-0912

**HORIZON NEIGHBORHOOD PRUD
 GENERAL NOTES, KEY NOTES, AND LEGEND**



6217 SOUTH STATE STREET, SUITE 200
 8017431800 TEL. 8017430800 FAX



SHEET NUMBER
1.01

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

JOB NUMBER
SLB0793

NO.	BY	DATE	REVISIONS

DATE SUBMITTED: 09-12-2016

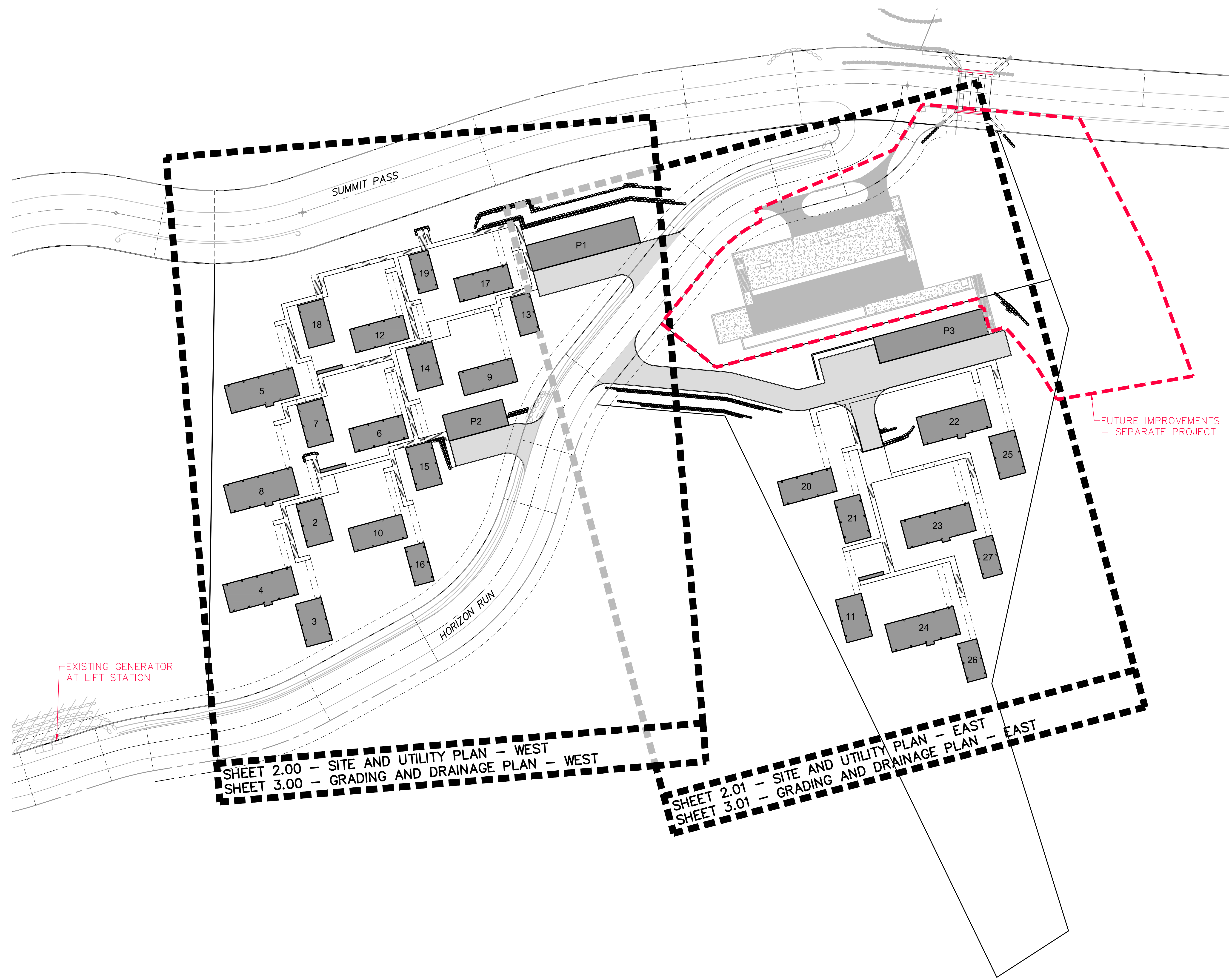
PREPARED FOR: SUMMIT POWDER MOUNTAIN

MURRAY, UT 84007
 WWW.NVS.COM



DATE: 10/27/16 TIME: 2:47:28 PM DRAWING NAME: 102 - OVERALL KEY MAP.DWG
 SERVER: NONE PAGE SETUP: PPT-102-24x36 LAYOUT: LAYOUT1
 PATH: N:\SLB0793\CADD\HORIZON VILLAGE.VP DESIGNED: ### PROJ. MGR: ###

BOWDEN
 XREFS:



SHEET 2.00 - SITE AND UTILITY PLAN - WEST
 SHEET 3.00 - GRADING AND DRAINAGE PLAN - WEST

SHEET 2.01 - SITE AND UTILITY PLAN - EAST
 SHEET 3.01 - GRADING AND DRAINAGE PLAN - EAST

FUTURE IMPROVEMENTS
 - SEPARATE PROJECT

EXISTING GENERATOR
 AT LIFT STATION

SCALE
 HORIZONTAL: 1" = 40'
 0 10' 20' 40' 60'

CALL BEFORE YOU DIG!
 1-800-882-9575

STATE OF UTAH
 REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 12/27/16

NO.	BY	DATE	REVISIONS

HORIZON NEIGHBORHOOD PRUD
OVERALL KEY MAP

PREPARED FOR: SUMMIT POWDER MOUNTAIN

DATE SUBMITTED: 09-12-2016

NV5

MURRAY, UT 84407
 WWW.NV5.COM

6217 SOUTH STATE STREET, SUITE 200
 8017431800 TEL. 8017430900 FAX

SHEET NUMBER
1.02

SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = 40'

JOB NUMBER
SLB0793

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.

DATE: 10/27/16 TIME: 2:48:50 PM DRAWING NAME: SITE AND UTILITY PLAN - WESTING
 SERVER: NONE PAGE SETUP: PLOT-CSD-24x36 LAYOUT: 1
 PATH: N:\S\B0793\CAD\HORIZON VILLAGE VP DESIGNED: JMM PROJ. NO: 16011

SEWER INFORMATION

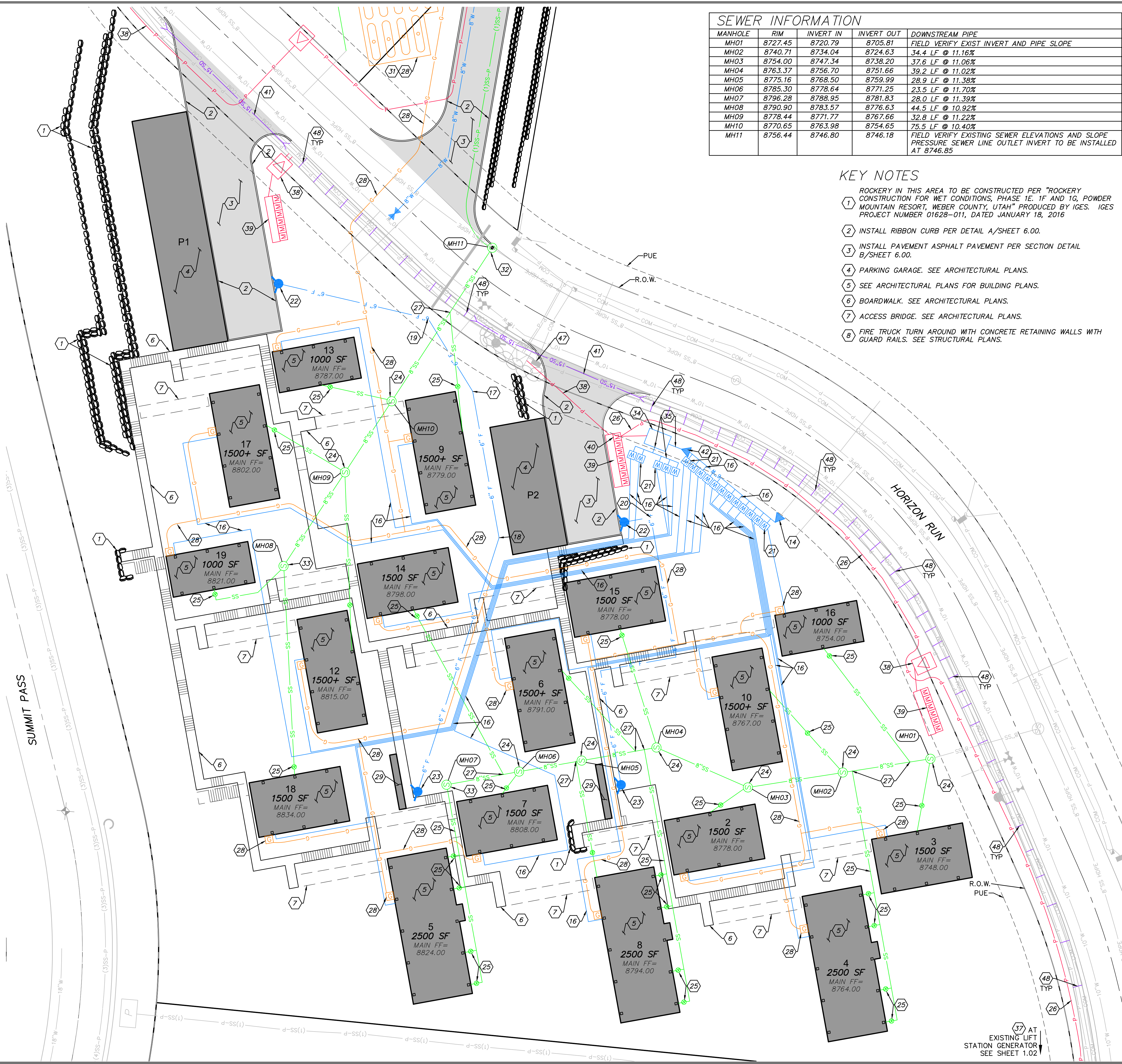
MANHOLE	RIM	INVERT IN	INVERT OUT	DOWNSTREAM PIPE
MH01	8727.45	8720.79	8705.81	FIELD VERIFY EXIST INVERT AND PIPE SLOPE
MH02	8740.71	8734.04	8724.63	34.4 LF @ 11.16%
MH03	8754.00	8747.34	8738.20	37.6 LF @ 11.06%
MH04	8763.37	8756.70	8751.66	39.2 LF @ 11.02%
MH05	8775.16	8768.50	8759.99	28.9 LF @ 11.38%
MH06	8785.30	8778.64	8771.25	23.5 LF @ 11.70%
MH07	8796.28	8788.95	8781.83	28.0 LF @ 11.39%
MH08	8790.90	8783.57	8776.63	44.5 LF @ 10.92%
MH09	8778.44	8771.77	8767.66	32.8 LF @ 11.22%
MH10	8770.65	8763.98	8754.65	75.5 LF @ 10.40%
MH11	8756.44	8746.80	8746.18	FIELD VERIFY EXISTING SEWER ELEVATIONS AND SLOPE PRESSURE SEWER LINE OUTLET INVERT TO BE INSTALLED AT 8746.85

KEY NOTES

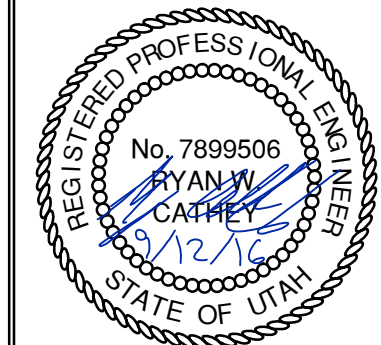
- 1 ROCKERY IN THIS AREA TO BE CONSTRUCTED PER "ROCKERY CONSTRUCTION FOR WET CONDITIONS, PHASE 1E. 1F AND 1G, POWDER MOUNTAIN RESORT, WEBER COUNTY, UTAH" PRODUCED BY IGES. IGES PROJECT NUMBER 01628-011, DATED JANUARY 18, 2016
- 2 INSTALL RIBBON CURB PER DETAIL A/SHEET 6.00.
- 3 INSTALL PAVEMENT ASPHALT PAVEMENT PER SECTION DETAIL B/SHEET 6.00.
- 4 PARKING GARAGE. SEE ARCHITECTURAL PLANS.
- 5 SEE ARCHITECTURAL PLANS FOR BUILDING PLANS.
- 6 BOARDWALK. SEE ARCHITECTURAL PLANS.
- 7 ACCESS BRIDGE. SEE ARCHITECTURAL PLANS.
- 8 FIRE TRUCK TURN AROUND WITH CONCRETE RETAINING WALLS WITH GUARD RAILS. SEE STRUCTURAL PLANS.

KEY NOTES (CONT)

- 9 CONNECT TO WATER MAINLINE WITH 8" HOT TAP.
- 10 INSTALL 8"x6"x8" TEE WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 11 INSTALL 8" GATE VALVE WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 12 INSTALL 8" 11.25' BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 13 INSTALL 8" 22.5' BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 14 CONNECT TO EXISTING 8" WATER STUB WITH 8"x6" REDUCER WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 15 INSTALL 8" 90' BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 16 INSTALL 1 1/2" SERVICE LATERAL PER APWA STANDARD PLAN NO. 552 AND DETAIL D, SHEET 6.00.
- 17 INSTALL 6" 11.25' BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 18 INSTALL 6" 22.5' BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 19 INSTALL 6" 45' BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 20 INSTALL 6" 90' BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 21 CONSTRUCT 3/4" METER PER APWA STANDARD PLAN NO. 522.
- 22 INSTALL FIRE DEPARTMENT CONNECTION. COORDINATE WITH WEBER COUNTY FIRE MARSHAL.
- 23 INSTALL STAND PIPE. COORDINATE WITH WEBER COUNTY FIRE MARSHAL.
- 24 INSTALL 4" SANITARY SEWER MANHOLE PER APWA STANDARD PLAN NO. 411 WITH DEEP DROP INLET PER APWA STANDARD PLAN NO. 433.
- 25 INSTALL 4" SANITARY SEWER LATERAL AND CLEANOUT PER APWA STANDARD PLAN NO. 431 AND DETAIL D, SHEET 6.00.
- 26 ELECTRICAL POWER CONDUIT FROM EXISTING GENERATOR AT LIFT STATION TO BOOSTER PUMP VAULT FOR BACKUP POWER. SEE BOWEN COLLINS ELECTRICAL PLANS.
- 27 WYE CONNECT TO 8" SEWER LINE.
- 28 GAS PIPES, METERS, AND STORAGE TANKS (1,000 GAL) TO BE EXCAVATED AND TRENCHED BY CONTRACTOR. INSTALLATION BY OTHERS.
- 29 FIRE CACHE. SEE ARCHITECTURAL PLANS.
- 30 INSTALL FIRE HYDRANT ASSEMBLY PER APWA STANDARD PLAN NO. 511.
- 31 PROPANE TANK PIT PER DETAIL C/SHEET 6.00.
- 32 INSTALL 5" SANITARY SEWER MANHOLE PER APWA STANDARD PLAN NO. 411.
- 33 INSTALL 4" SANITARY SEWER MANHOLE PER APWA STANDARD PLAN NO. 411.
- 34 INSTALL BOOSTER PUMP VAULT PER DETAIL SHEETS 6.02.
- 35 INSTALL 2" SERVICE LATERAL PER APWA STANDARD PLAN NO. 552.
- 36 INSTALL 8"x8"x8" TEE WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 37 CONNECT TO EXISTING BACKUP GENERATOR. SEE BOWEN COLLINS ELECTRICAL PLANS.
- 38 ELECTRICAL POWER CONDUIT, TRANSFORMERS AND PULL BOXES. SEE SALMON ELECTRICAL PLANS.
- 39 POWER METER BASE AND MAIN CIRCUIT BREAKER, SEE DETAIL X, SHEET 6.01. SEE SALMON ELECTRICAL PLANS.
- 40 BOOSTER PUMP VAULT ELECTRICAL EQUIPMENT. SEE BOWEN COLLINS ELECTRICAL PLANS.
- 41 INSTALL RCP CLASS 3 CULVERT WITH FLARED END SECTIONS TO MATCH EXISTING FLOWLINE OF DRAINAGE CHANNEL.
- 42 INSTALL 6"x2" REDUCER WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
- 43 INSTALL E/ONE GRINDER PUMP STATION MODEL DH071. WITH E/ONE SENTRY ALARM PANEL INCLUDING GENERATOR RECEPTACLE WITH AUTO TRANSFER AND GFCI RECEPTACLE. ALARM PANELS SHALL BE INSTALLED WITHIN LINE OF SIGHT OF ENTRY TO UNIT. SEE DETAIL SHEET 6.03.
- 44 INSTALL E/ONE GRINDER PUMP STATION MODEL DH151. WITH E/ONE SENTRY ALARM PANEL INCLUDING GENERATOR RECEPTACLE WITH AUTO TRANSFER AND GFCI RECEPTACLE. ALARM PANELS SHALL BE INSTALLED WITHIN LINE OF SIGHT OF ENTRY TO UNIT. SEE DETAIL SHEET 6.03.
- 45 CONSTRUCT CONCRETE RETAINING WALL WITH GUARDRAIL. SEE STRUCTURAL PLANS.
- 46 WYE CONNECT 1.5" SEWER PIPE
- 47 CONSTRUCT 4' WIDE x 1' DEEP DRAINAGE SWALE. LINE SWALE WITH D50=6" RIP RAP.
- 48 INSTALL CHECK DAM PER DETAIL A, SHEET 6.04. CHECK DAMS TO BE INSTALLED AT EVERY 12" IN ELEVATION RISE AS SHOWN ON PLAN.



**HORIZON NEIGHBORHOOD PRUD
 SITE AND UTILITY PLAN - WEST**



SHEET NUMBER
2.00
 SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = 20'
 JOB NUMBER
SLB0793

DATE SUBMITTED: 09-12-2016

PREPARED FOR: SUMMIT POWDER MOUNTAIN

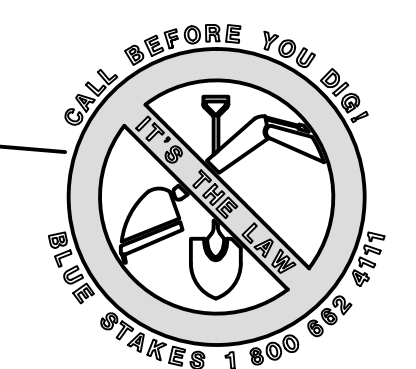
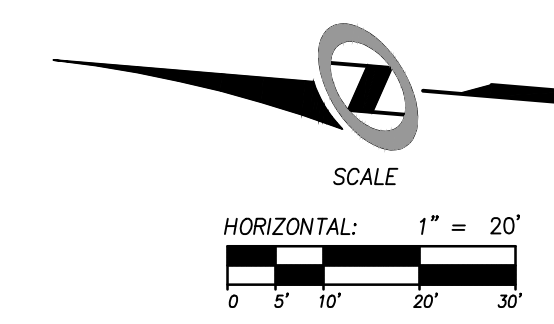
MURRAY, UT 84007
 WWW.NVI5.COM

5217 SOUTH STATE STREET, SUITE 200
 8017433800 TEL. 8017433800 FAX

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.

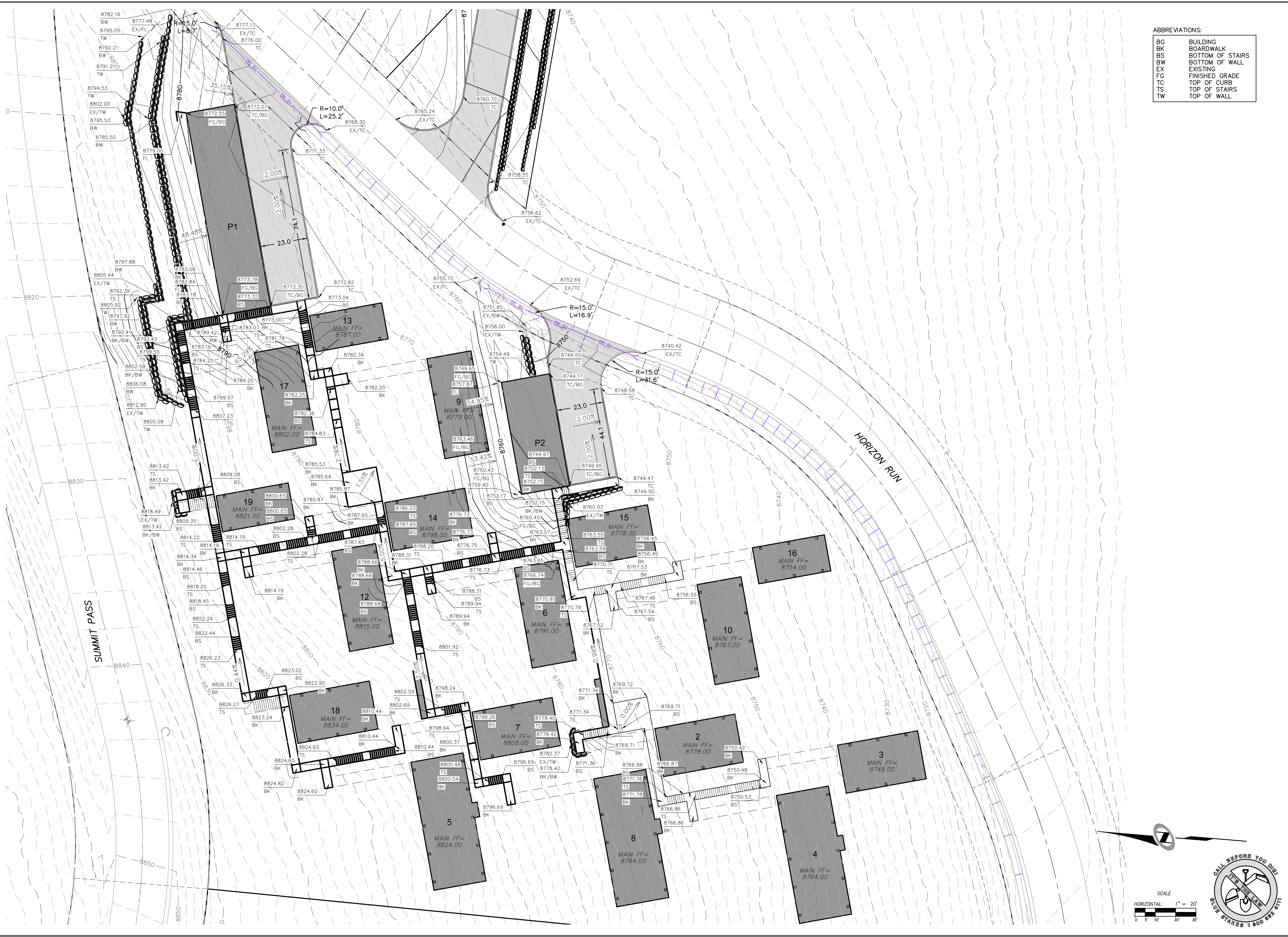
BOWDEN XREFS:

37 AT EXISTING LIFT STATION GENERATOR SEE SHEET 1.02



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BOWDEN
 XREFS:



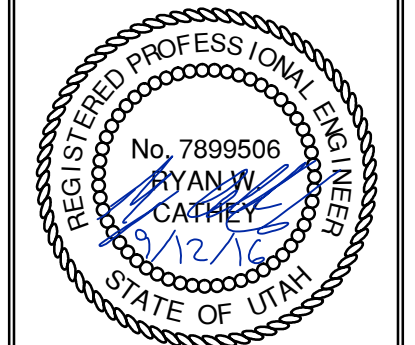
ABBREVIATIONS:

BC	BUILDING
BK	BOARDWALK
BS	BOTTOM OF STAIRS
BW	BOTTOM OF WALL
EX	EXISTING
FG	FINISHED GRADE
TC	TOP OF CURB
TS	TOP OF STAIRS
TW	TOP OF WALL

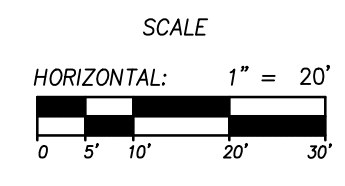
HORIZON NEIGHBORHOOD PRUD GRADING AND DRAINAGE PLAN - WEST



6217 SOUTH STATE STREET, SUITE 200
 801743.8000 TEL. 801743.0800 FAX



SHEET NUMBER	3.00
SCALE	HORIZONTAL: 1" = 20' VERTICAL: 1" = 20'
JOB NUMBER	SLB0793



DATE SUBMITTED: 09-12-2016

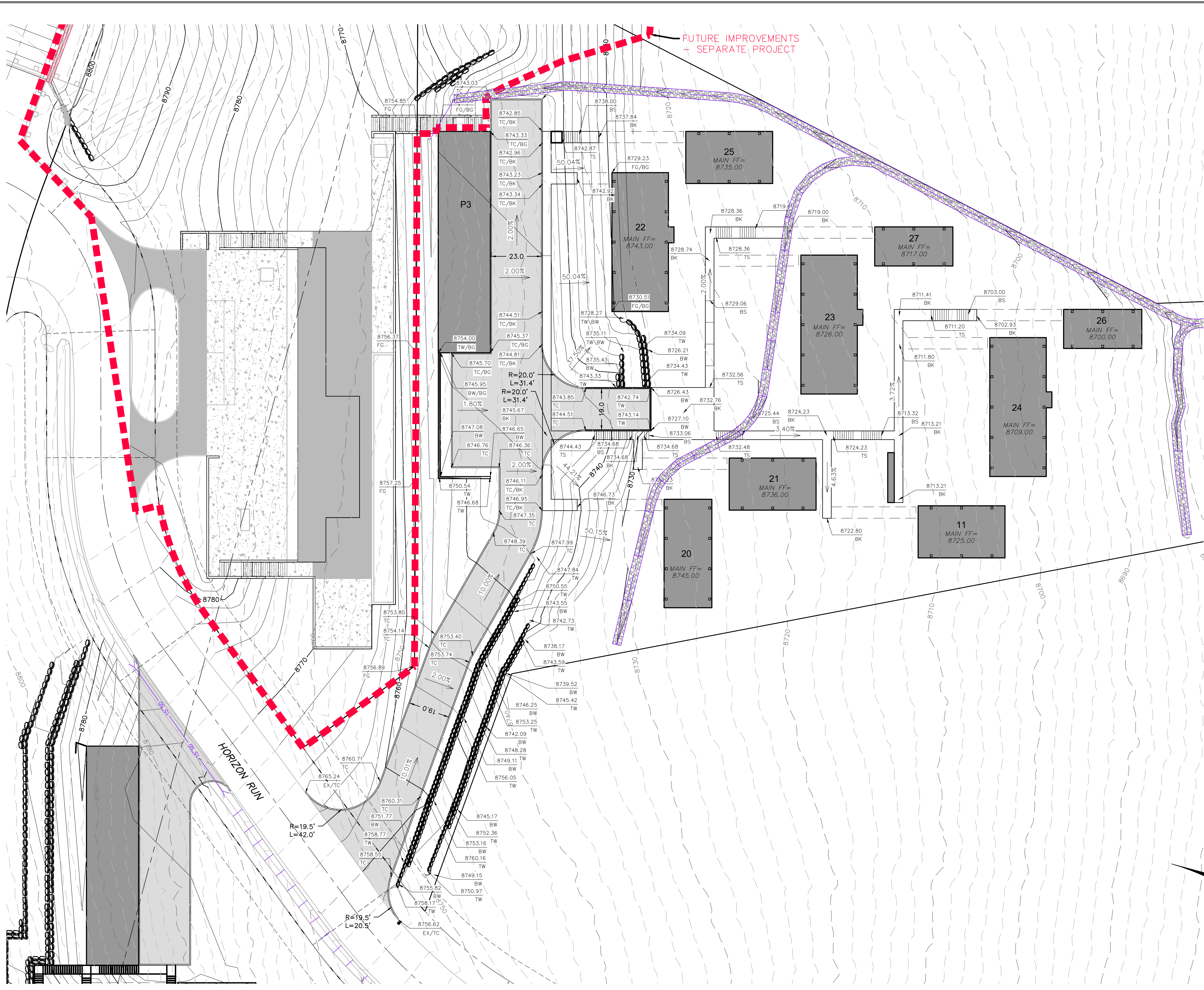
PREPARED FOR: SUMMIT POWDER MOUNTAIN

MURRAY, UT 8407
 WWW.NVI5.COM

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DATE: 10/27/16 TIME: 2:54:12 PM DRAWING: GRADING AND DRAINAGE PLAN - EAST
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 PATH: N:\S\B0793\CAD\HORIZON VILLAGE V.P. DESIGNED: JMM PROJ. NO: 16011

BOWDEN
 XREFS:



ABBREVIATIONS:

BC	BUILDING
BK	BOARDWALK
BS	BOTTOM OF STAIRS
BW	BOTTOM OF WALL
EX	EXISTING
FG	FINISHED GRADE
TC	TOP OF CURB
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TW	TOP OF WALL

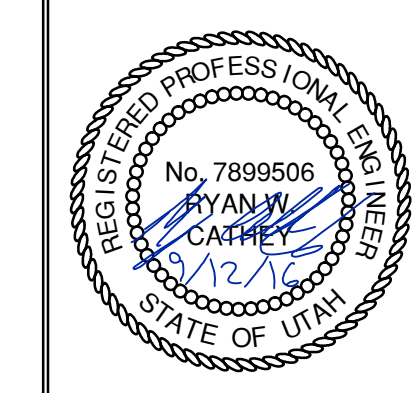
NO.	BY	DATE	REVISIONS

HORIZON NEIGHBORHOOD PRUD

GRADING AND DRAINAGE PLAN - EAST

PREPARED FOR: SUMMIT POWDER MOUNTAIN
 MURRAY, UT 84007
 WWW.NV5.COM

NV5
 6217 SOUTH STATE STREET, SUITE 200
 8017433800 TEL. 8017433800 FAX



SHEET NUMBER
3.01
 SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = 20'
 JOB NUMBER
SLB0793

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DATE SUBMITTED: 09-12-2016

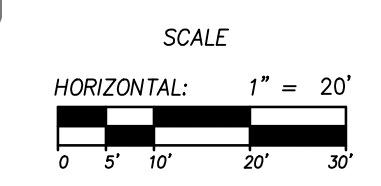
PREPARED FOR: SUMMIT POWDER MOUNTAIN

MURRAY, UT 84007
 WWW.NV5.COM

NV5
 6217 SOUTH STATE STREET, SUITE 200
 8017433800 TEL. 8017433800 FAX



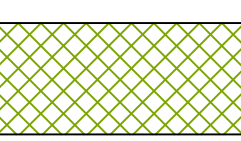
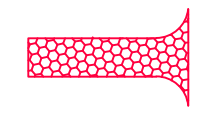


SHEET NUMBER
3.01
 SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = 20'
 JOB NUMBER
SLB0793



CALL BEFORE YOU DIG
 BLUE STAKES 1 800 882 8778



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:

- 
 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. RE-SEED AREA IS APPROXIMATE. CONTRACTOR IS TO REVEGITATE ALL DISTURBED AREAS.
- 
 STABILIZED CONSTRUCTION ENTRANCE FOR SITE INGRESS/EGRESS. IF ALTERNATE ACCESS POINTS ARE APPROVED BY OWNER, ADDITIONAL STABILIZED CONSTRUCTION ENTRANCES WILL BE REQUIRED.
- 
 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.

SCALE
 HORIZONTAL: 1" = 40'
 0 10' 20' 40' 60'

SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = 40'

BEFORE YOU DIG
 CALL 811
 BLUE STAKES 1 800 882 8778

HORIZON NEIGHBORHOOD PRUD
 EROSION CONTROL PLAN - OVERALL

PREPARED FOR: SUMMIT POWDER MOUNTAIN
 DATE SUBMITTED: 09-12-2016

MURRAY, UT 84007
 WWW.NV5.COM

6217 SOUTH STATE STREET, SUITE 200
 801743.8800 TEL. 801743.0800 FAX

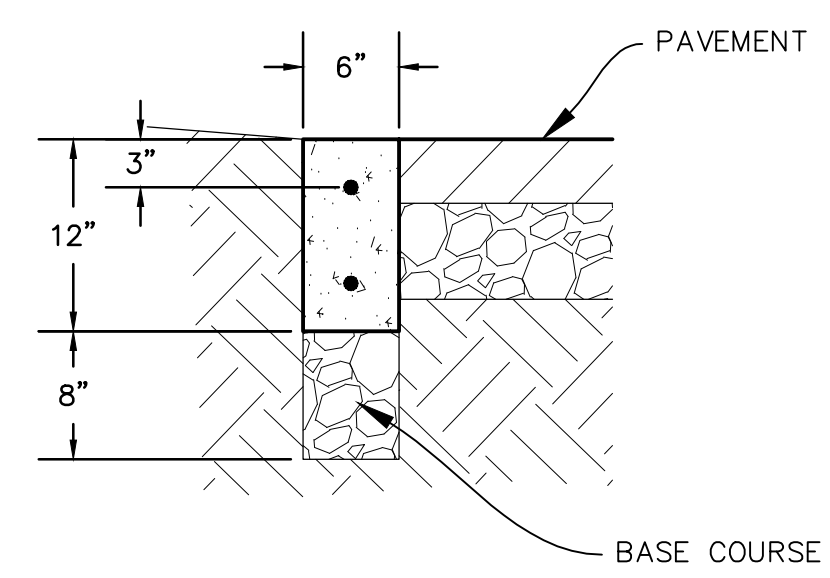
REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 STATE OF UTAH

SHEET NUMBER
4.00

JOB NUMBER
SLB0793

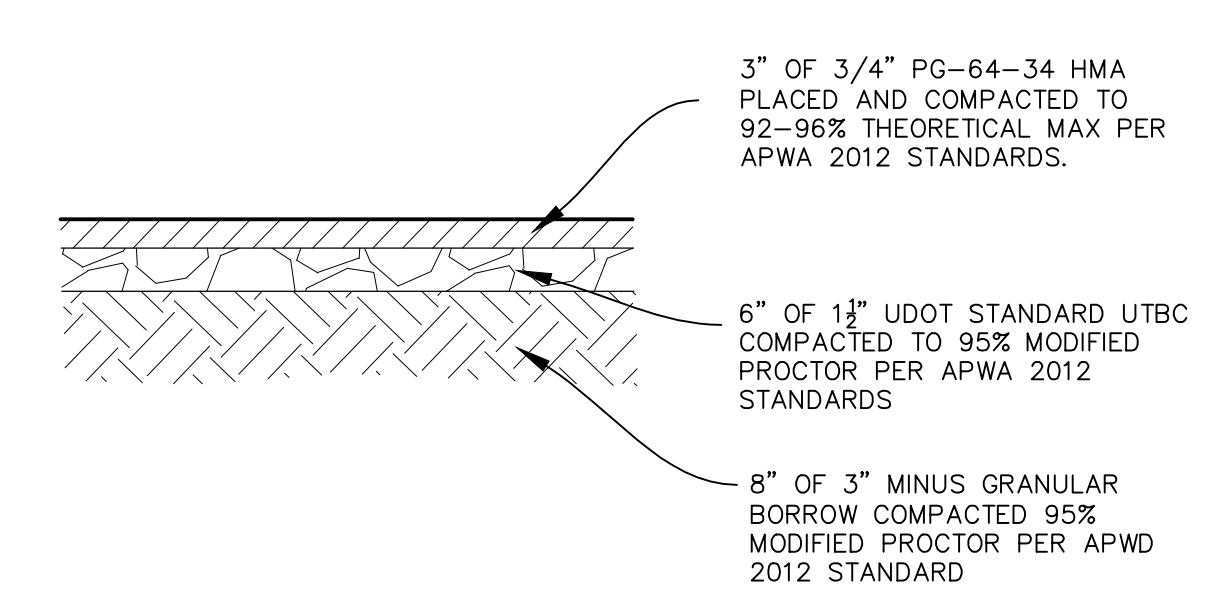
CAUTION
 The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans, and must be approved by the preparer of these plans.

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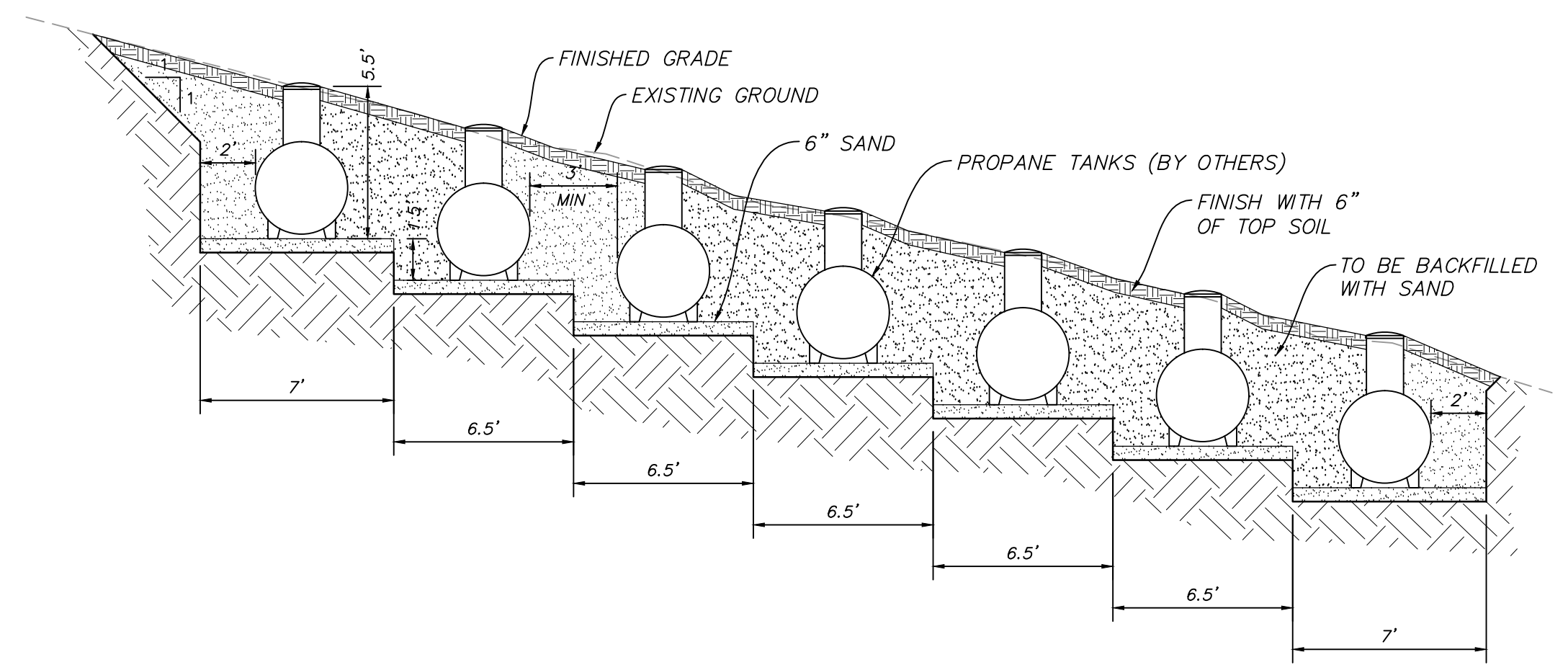
RIBBON CURB
 (MODIFIED TYPE P CURB)

(A)
 NTS



PARKING ASPHALT SECTION

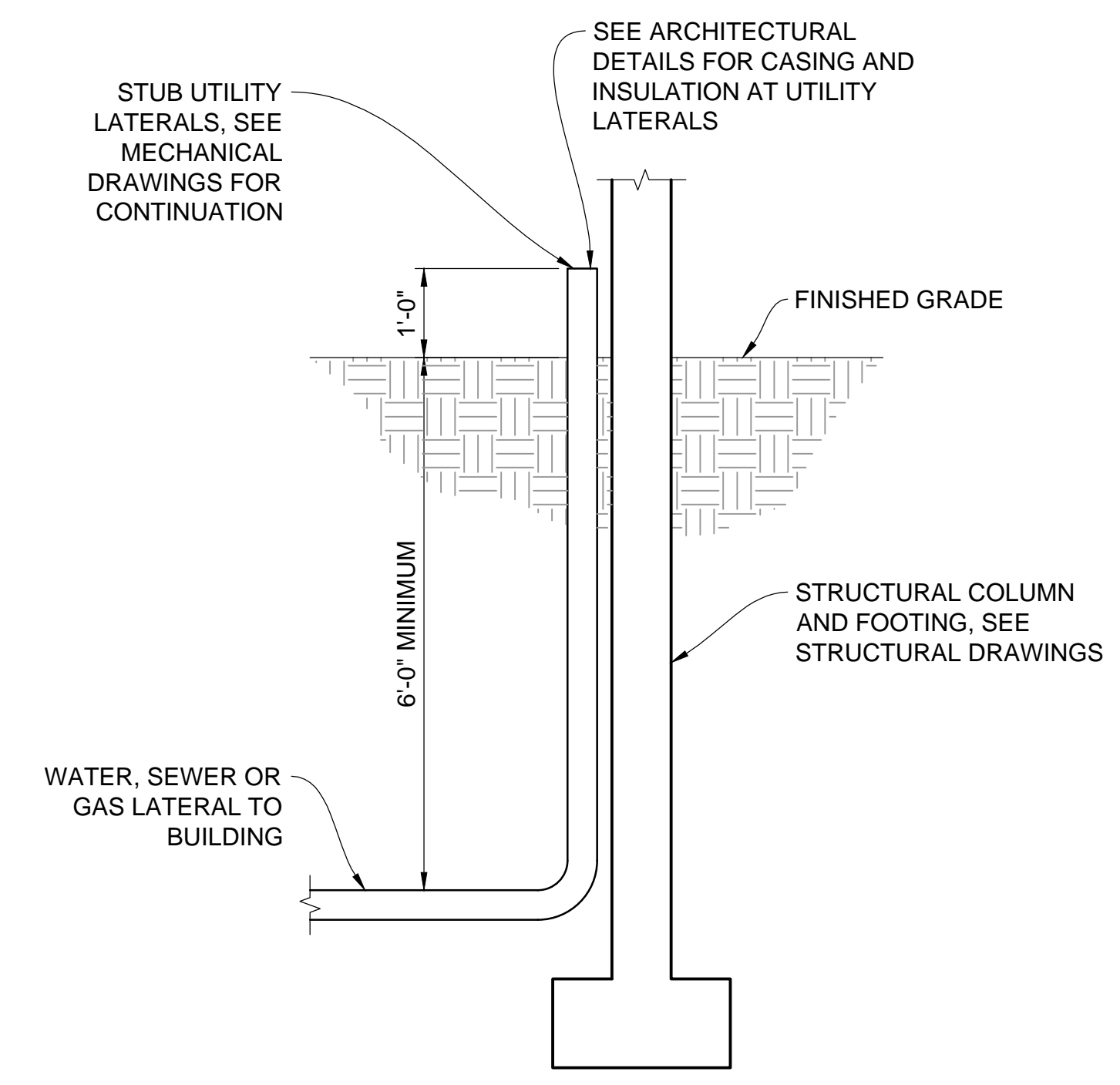
(B)
 NTS



SECTION A-A

PROPANE TANK PIT

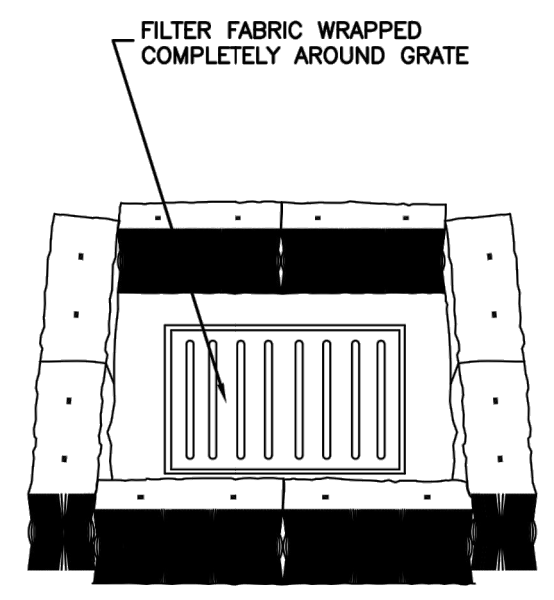
(C)
 VAR
 NTS



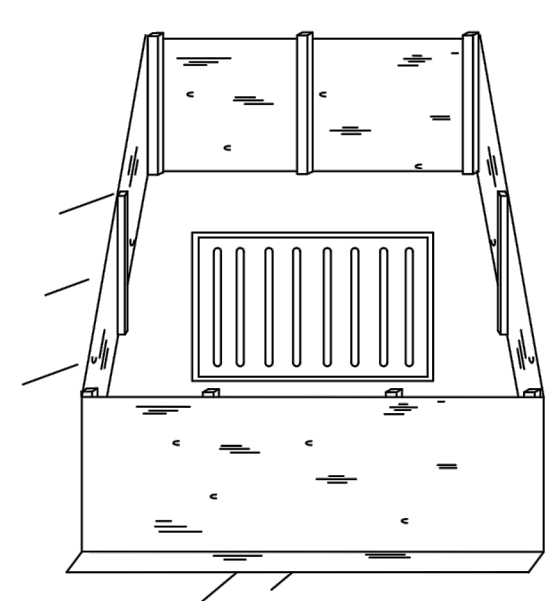
SERVICE LATERAL DETAIL

(D)
 VAR
 NTS

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



STRAW BALE BARRIER
 (PLAN No. 121)



SILT FENCE
 (PLAN No. 122)

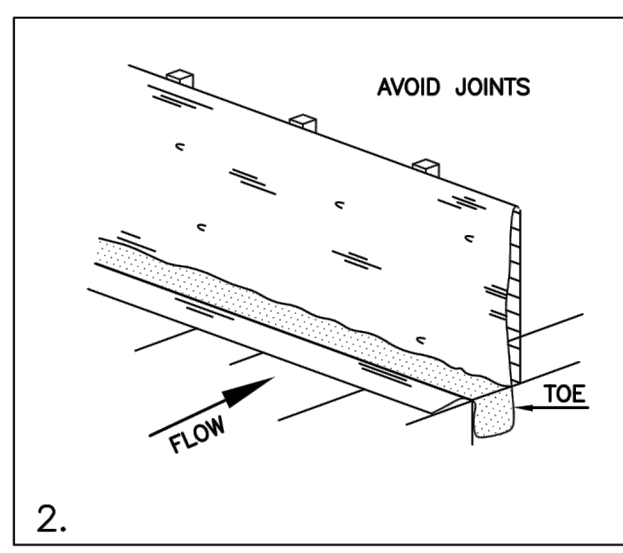
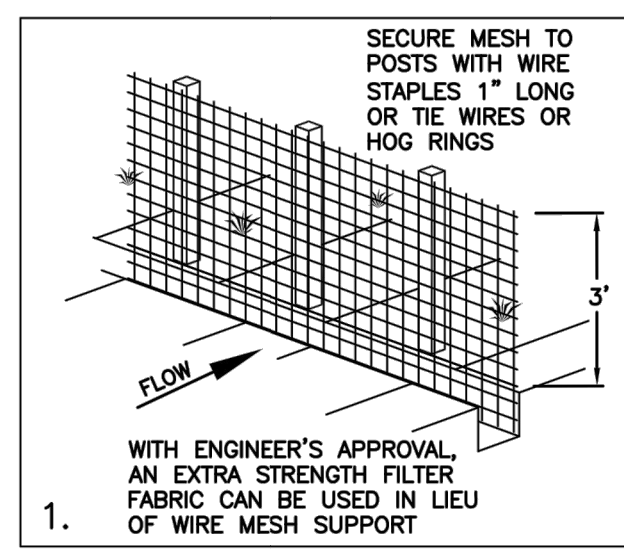
Inlet protection - fence or straw bale

February 2006

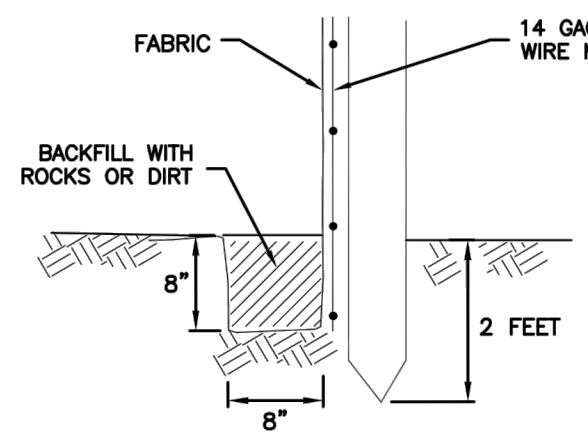
15

Plan
124
 Sheet 3 of 3

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



INSTALLATION SEQUENCE



TOE DETAIL

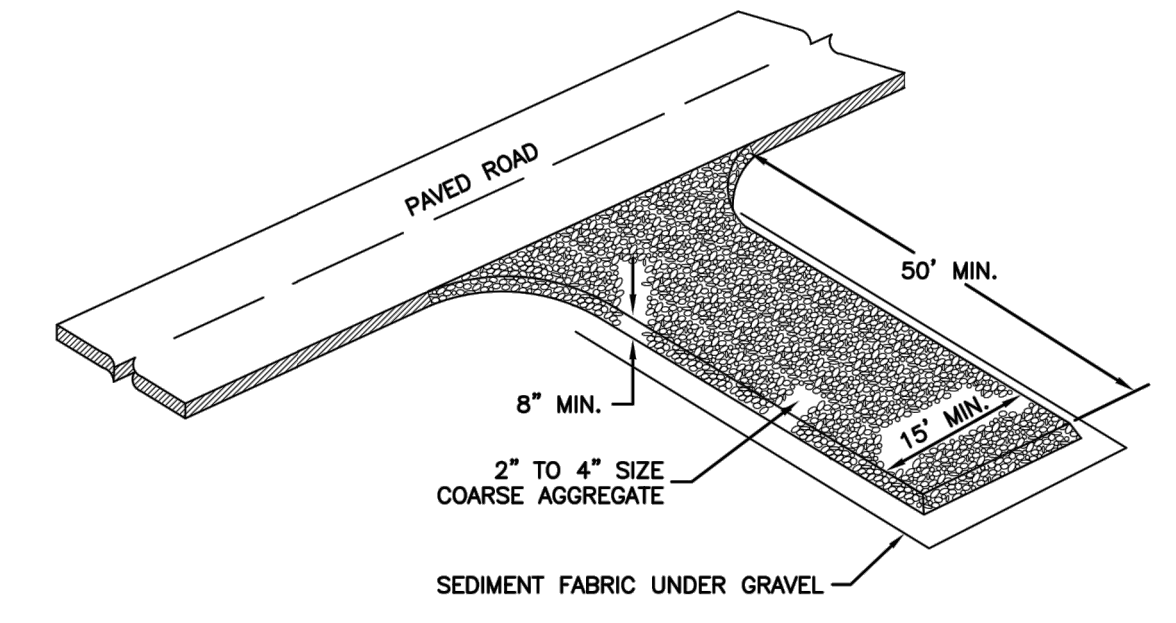
Silt fence

February 2006

7

Plan
122

NARRATIVE: THIS PLAN MAY BE USED FOR THE CONSTRUCTION OF A STORM WATER BEST MANAGEMENT PRACTICE (BMP). IT IS NOT INCLUSIVE OF ALL PRACTICES AVAILABLE AND IS ONLY SPECIFIC TO THE CONSTRUCTION OF THIS TYPE. MAINTENANCE OF THIS TYPE OF INSTALLATION IS IMPORTANT AND SHOULD BE CONTINUOUSLY MONITORED BY THE CONTRACTOR AND ENGINEER. DETAILS SHOWN HERE HIGHLIGHT IMPORTANT PARTS OF CONSTRUCTION, AND SHOULD BE MODIFIED AS NEEDED.



Stabilized roadway entrance

February 2006

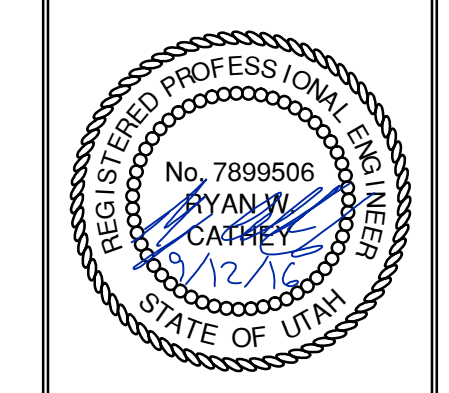
19

Plan
126

NO.	DATE	BY	REVISIONS

HORIZON NEIGHBORHOOD PRUD
DETAILS

NV5
 6217 SOUTH STATE STREET, SUITE 200
 801743.8000 TEL. 801743.0800 FAX
 MURRAY, UT 84407
 WWW.NV5.COM



SHEET NUMBER
6.00
 SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = N/A
 JOB NUMBER
SLB0793



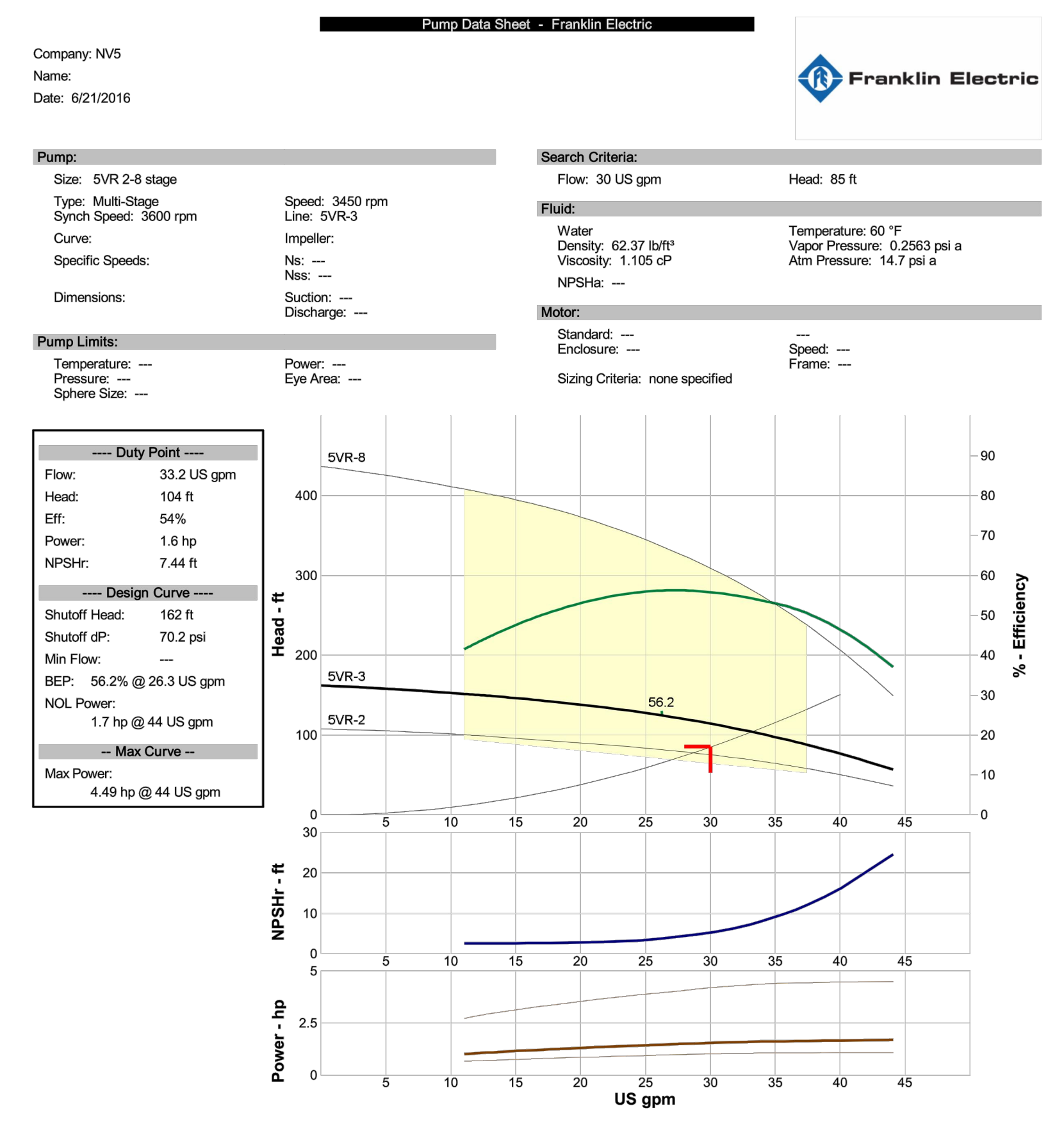
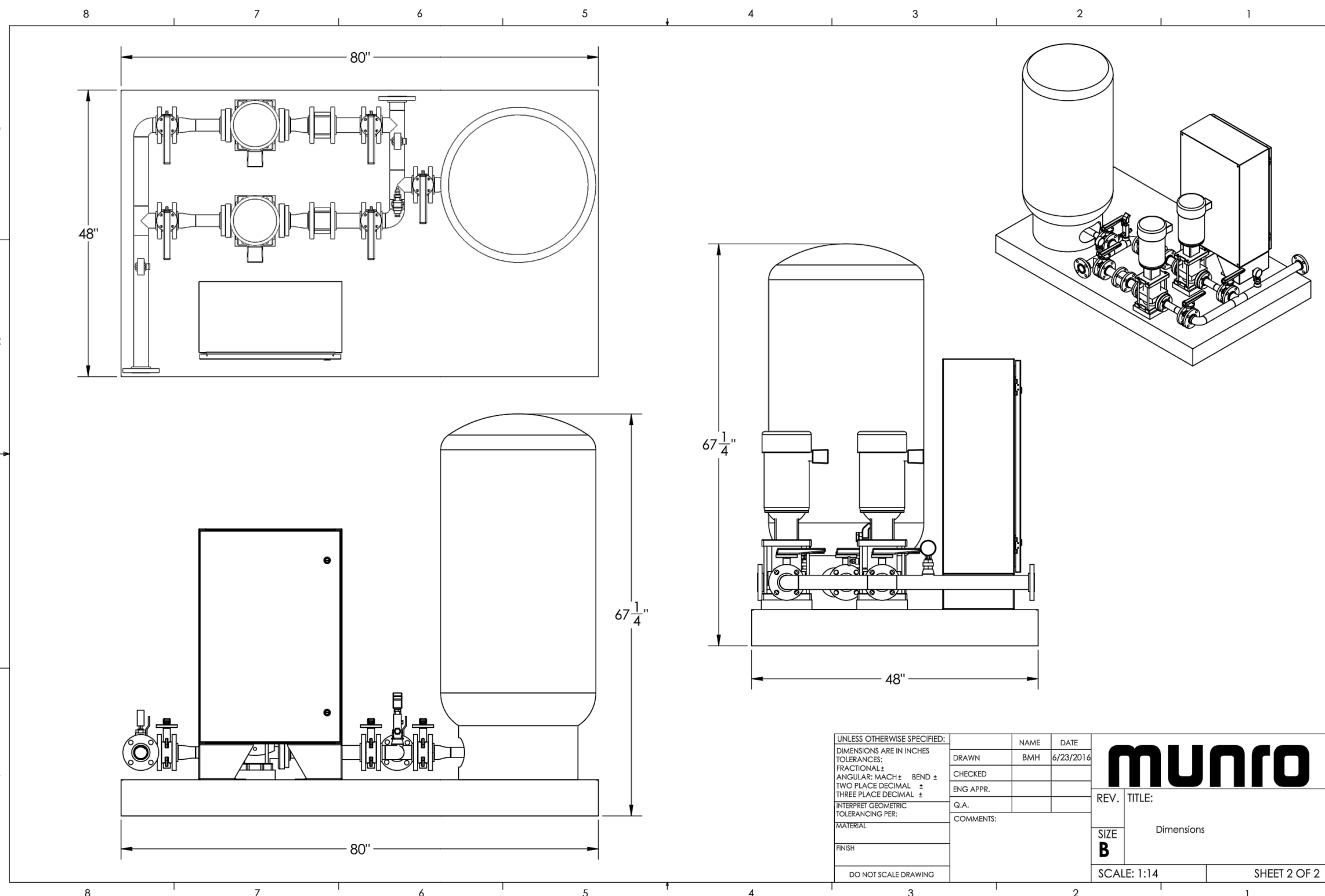
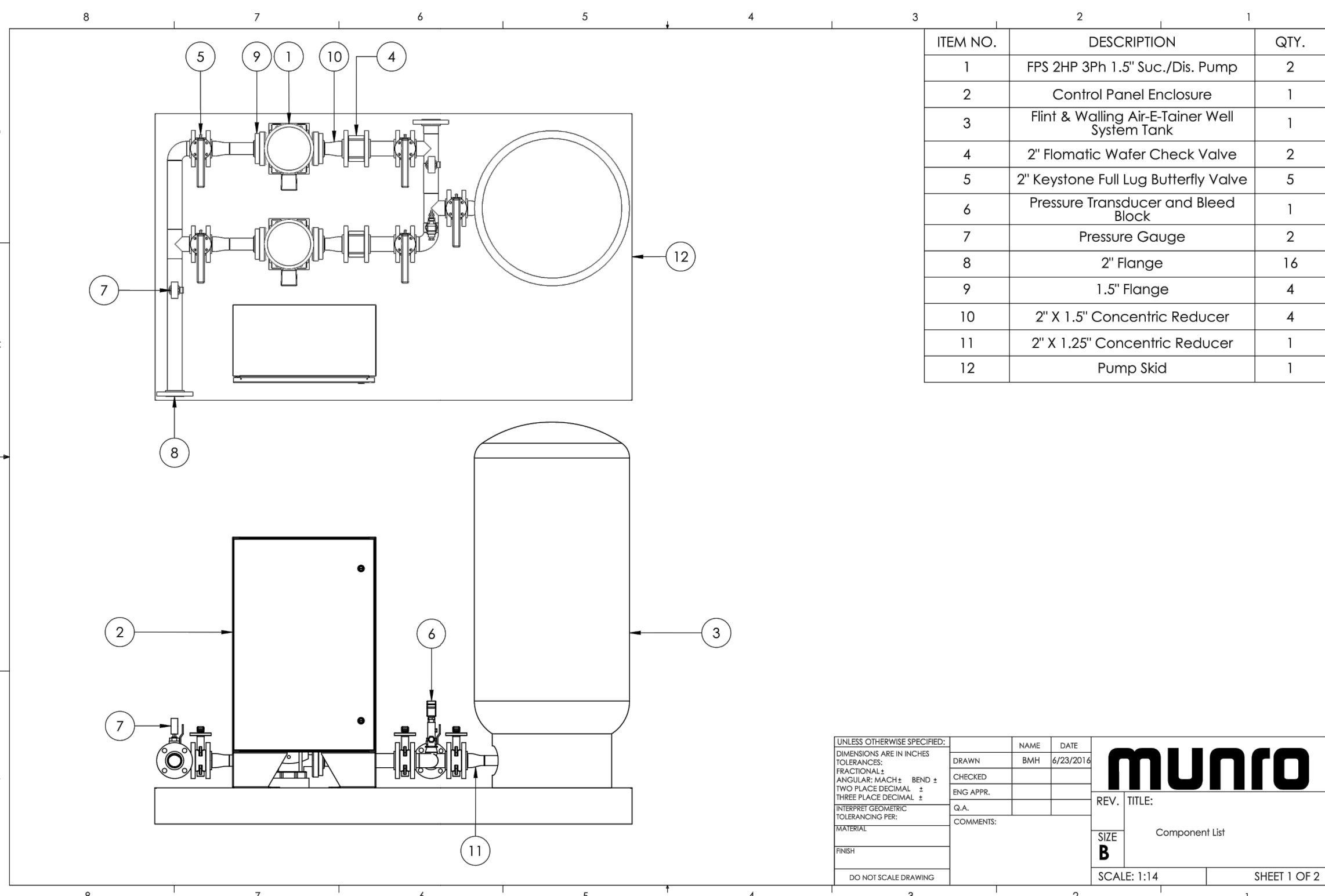
DATE SUBMITTED: 09-12-2016

PREPARED FOR: SUMMIT POWDER MOUNTAIN

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.

BOWDEN
 XREFS:

DATE: 10/27/16 TIME: 2:57:01 PM DRAWING NAME: E01 - DETAILS.DWG
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 PLOT: N:\SLB0793\CAD\HORIZON VILLAGE V.P. DESIGNED: MURRAY, UT 8407



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
36	3450	93.1	52	1.83	10.5
30	3450	113	55	1.54	5.74
24	3450	129	55	1.41	3.52
18	3450	141	51	1.26	2.74
12	3450	150	43	1.05	2.62

Selected from catalog: FFCentrifugal 60 Vers: 1.3

MULTI-STAGE PUMPS

VERTICAL VR SERIES

DIMENSIONS SVR PUMP END AND MOTOR

F-FITTED **T-FITTED** **V-FITTED**

F-Fitted: Round flanges on body type PN2--pump is supplied without joints, bolts, and counter flanges.
 T-Fitted: Oval flanges on body type PN6--pump is supplied without oval counter flanges for pipe to be screwed, joints, and bolts.
 V-Fitted: Connections with rapid fittings type "Victaulic"--pump is supplied without collars.

Pump End Dimensions (in)				Pump End Dimensions (in)			
Stages	HP	U1/F1	Model No.	Stages	HP	U1/F1	Model No.
2	1	13.49	SVR2-60 N	9	5	20.14	SVR9-60 N
3	1.5	14.44	SVR3-60 N	10	5	21.08	SVR10-60 N
4	2	14.99	SVR4-60 N	11	7.5	21.54	SVR11-60 N
5	3	15.93	SVR5-60 N	12	7.5	22.48	SVR12-60 N
6	3	17.29	SVR6-60 N	13	7.5	23.43	SVR13-60 N
7	5	18.25	SVR7-60 N	14	7.5	24.37	SVR14-60 N
8	5	19.19	SVR8-60 N	15	7.5	25.31	SVR15-60 N

Phase	HP	Frame	Standard Efficiency ODP			Premium Efficiency ODP			Phase	Standard Efficiency TEFC	Standard Efficiency TEFC						
			Volts	L2	M	D1	Volts	L2			M	D1	Volts	L2	M	D1	
1	1	56C	12.72	5.06	6.19	N/A	N/A	N/A	1	115/230	12.72	5.06	6.19	12.25	5.19	6.19	
	1.5	56C	12.72	5.06	6.2	N/A	N/A	N/A			12.25	5.19	6.19	11.97	5.19	6.19	
	2	56C	12.72	5.06	6.2	N/A	N/A	N/A			12.25	5.19	6.19	11.97	5.19	6.19	
3	1	56C	13.41	5.41	7.36	N/A	N/A	N/A	3	200-230/460	13.41	5.41	7.39	N/A	N/A	N/A	
	1.5	56C	13.41	5.41	7.36	N/A	N/A	N/A			13.41	5.41	7.39	13.23	5.34	7.39	
	2	56C	13.41	5.41	7.36	N/A	N/A	N/A			13.41	5.41	7.39	13.23	5.34	7.39	
5	1	182/ATC	16.55	6.87	8.5	208-230/460	15.62	6.75	8.5	5	182/ATC	16.55	6.87	8.5	16.55	6.87	8.5
	1.5	182/ATC	16.55	6.87	8.5	208-230/460	15.62	6.75	8.5			16.55	6.87	8.5	N/A	N/A	N/A
	2	182/ATC	16.55	6.87	8.5	208-230/460	15.62	6.75	8.5			16.55	6.87	8.5	N/A	N/A	N/A
7.5	1	56C	17.29	6.87	8.6	N/A	N/A	N/A	7.5	182/ATC	17.29	6.87	8.6	17.29	6.87	8.6	
	1.5	56C	17.29	6.87	8.6	N/A	N/A	N/A			17.29	6.87	8.6	N/A	N/A	N/A	
	2	56C	17.29	6.87	8.6	N/A	N/A	N/A			17.29	6.87	8.6	N/A	N/A	N/A	

NOTE: Dimensions for round flange units are for estimating purposes only.

AIR-E-TAINER® WELL SYSTEM TANKS

Zoeller Family of Water Solutions™

- In-line tanks pre-charged for 30-50 pressure switch - Vertical tanks pre-charged for either 30 - 50 or 40 - 60 Pressure switch
- 100 PSI maximum working pressure
- Powder-coated exterior and interior
- Butyl rubber parabolic diaphragm
- 5 year Limited Warranty

Part No.	Total Tank Vol. Gallons	Drawdown - Gallons by PSI Settings***	Approx. Size In. Dia x Ht	Ship Wt Lbs	NPT Size MTL	Factory Precharge PSIG	Max Working Pressure (PSI)	Max Working Temp		
131009	2	0.7	0.8	40/60	8-14 x 10-15	5	3/4" M	23	100	140
132477	4.6	1.6	1.4	11 x 14-3/4	9	3/4" M	28	100	140	140
132861	14	5.2	4.3	3.7	15-3/8 x 24-3/4	25.5	1" F	38	100	200
132862	20	7.4	6.2	5.4	15-3/8 x 32-1/4	30	1" F	38	100	200
132863	36	13.3	11.1	9.7	20 x 38-5/8	45	1" F	38	100	200
132872	52	19.2	16.1	14	23-3/8 x 38-5/8	77	1-1/4" F	38	100	200
132873	66	23.9	20	17.5	23-3/8 x 48-3/8	87	1-1/4" F	38	100	200
132460	86	31.8	26.7	23.2	23-3/8 x 58	105	1-1/4" F	38	100	200
136876	119.5	44	37	32	26 x 61-1/4	165	1-1/4" F	38	100	200

***In keeping with current industry standards, drawdown factors are based on Boyle's law. Actual drawdowns will vary depending upon system variables, including the accuracy and operation of the pressure switch and gauge and operating temperature of the system.

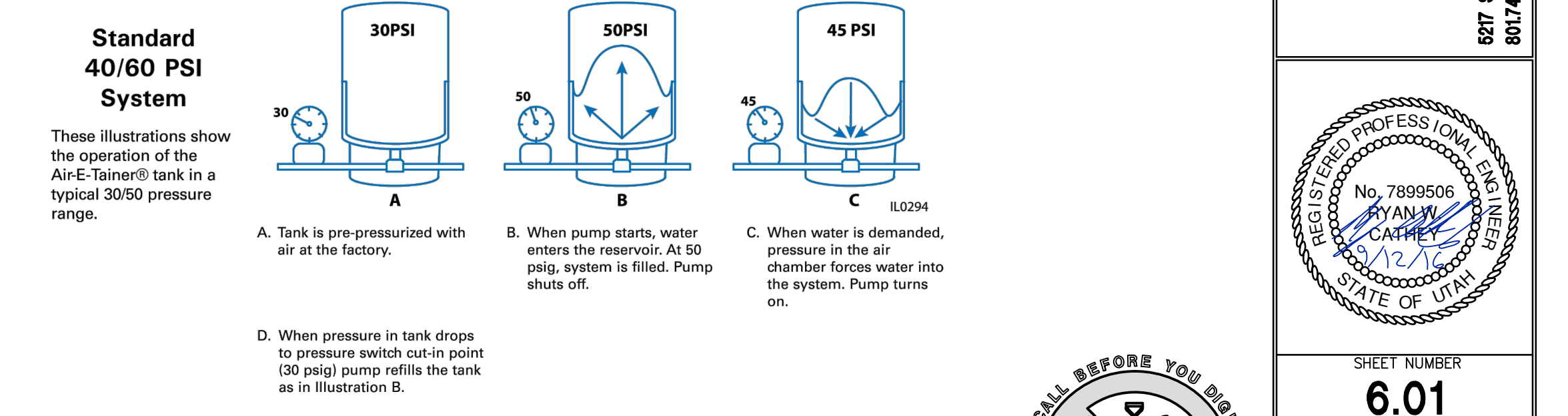
Caution: Install a pressure relief valve on any installation where the pump pressure can exceed the tank's maximum working pressure.
 NOTE: Pre-charged tanks cannot ship via air freight.

AIR-E-TAINER® WELL SYSTEM TANKS

Zoeller Family of Water Solutions™

Air-E-Tainer® Features

- AIR CHARGE VALVE**
 - Conveniently located for easy pressure adjustment
 - Projection-welded for durability
- DESIGNER FINISH**
 - High gloss exterior powder coat
 - Provides positive protection against corrosion and UV rays
- BUTYL RUBBER PARABOLIC DIAPHRAGM**
 - Eliminates rubbing on the tank wall or rolling over on itself
- STEEL SHELL**
- STEEL RETAINING RING**
- POWDER-COATED WATER CHAMBER**
 - Proven protection against internal corrosion
- CORROSION-RESISTANT BASE**
 - High-impact polymer material
 - Strong and stable for long life
 - Base rotates for easy alignment to pipe connection
 - Slotted and noted for air flow, reduced condensation build-up



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 800-345-9422 | www.flintandwalling.com

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 MURRAY, UT 8407
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PREPARED FOR: SUMMIT POWDER MOUNTAIN
 DATE SUBMITTED: 09-12-2016

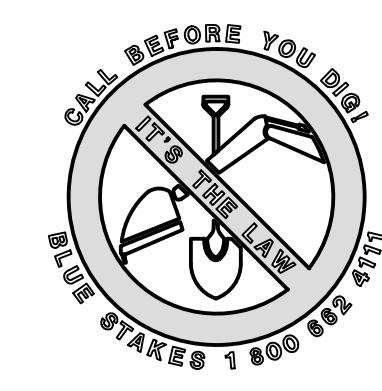
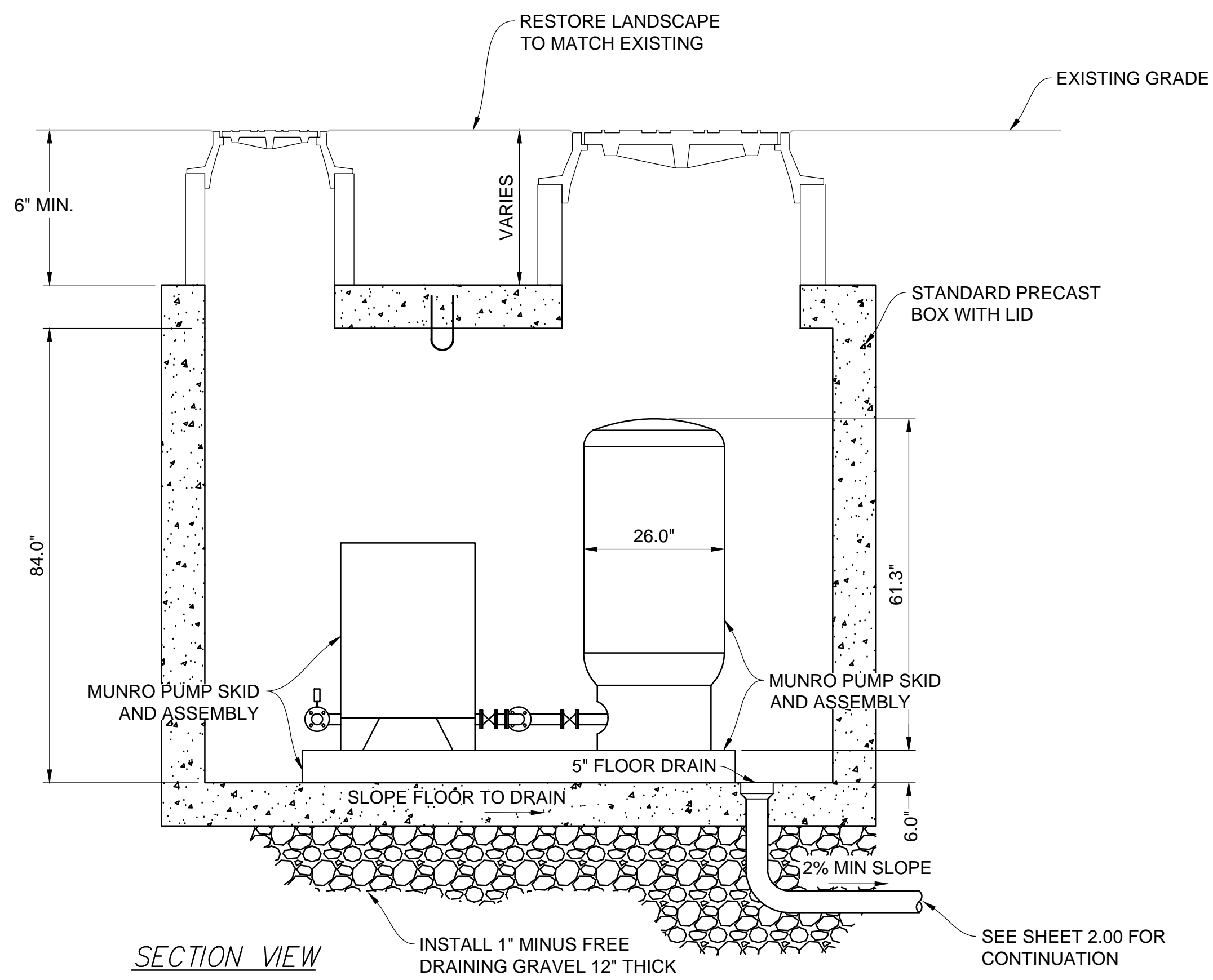
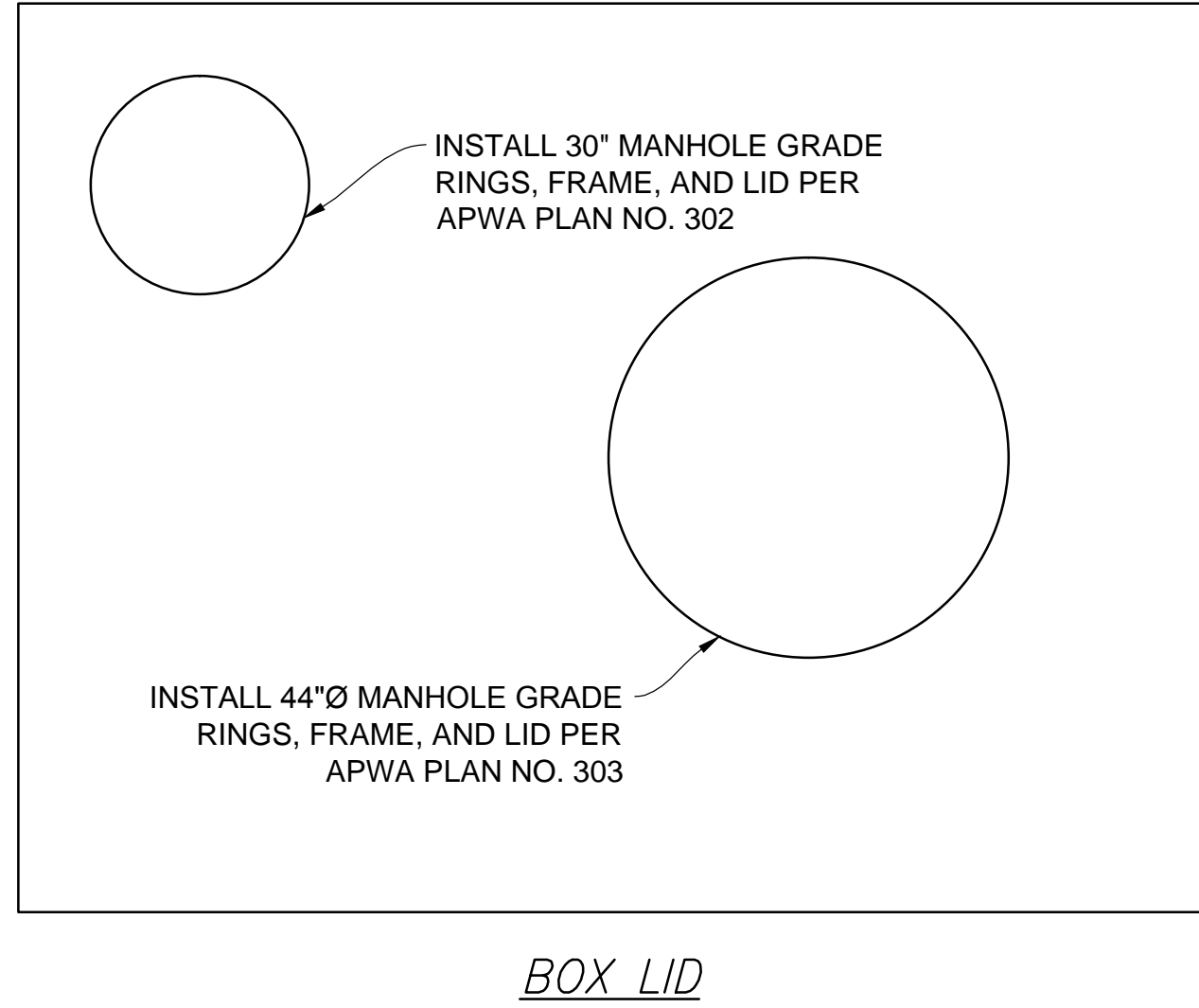
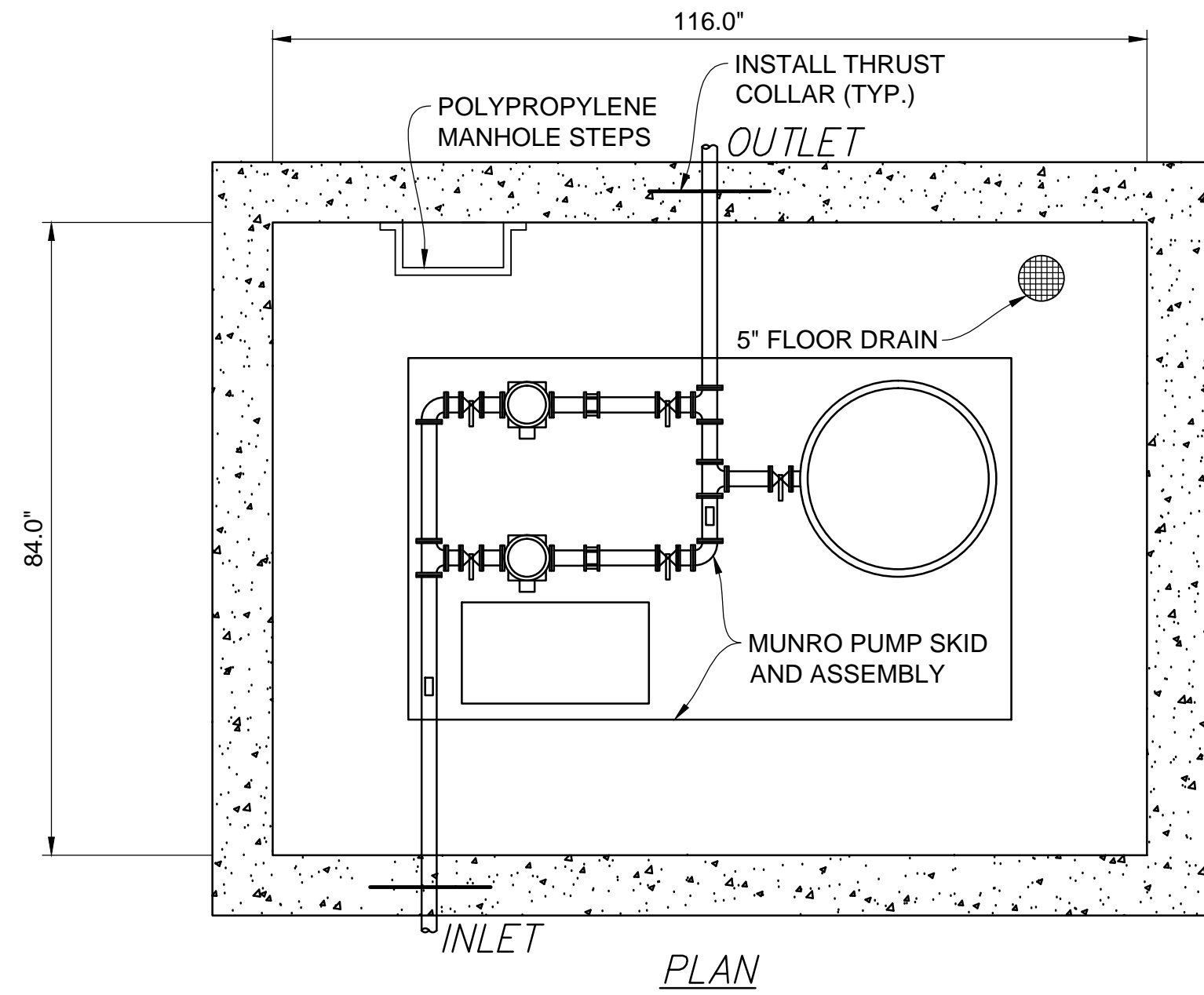
REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 STATE OF UTAH

SHEET NUMBER
6.01

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

JOB NUMBER
SLB0793

BOWDEN
 XREFS:



NO.	BY	DATE	REVISIONS

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

HORIZON NEIGHBORHOOD PRUD BOOSTER PUMP DETAILS

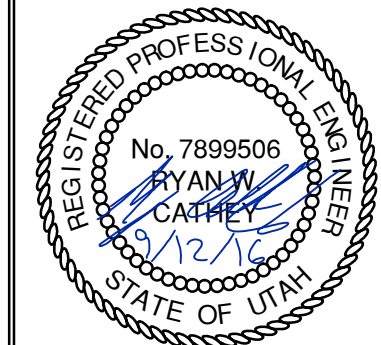
DATE SUBMITTED: 09-12-2016

PREPARED FOR: SUMMIT POWDER MOUNTAIN

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 801743-8000 TEL. 801743-0900 FAX



SHEET NUMBER
6.02

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 HORIZONTAL: 1" = N/A

JOB NUMBER
SLB0793

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OPTIONS: DH071 (HARD WIRED LEVEL CONTROLS)
 DR071 (WIRELESS LEVEL CONTROLS)

FIELD JOINT REQUIRED FOR MODELS DH071-129 / DR071-129 & DH071-160 / DR071-160

Labels include: GASKETED LID, HDPE; STRAIN RELIEF CORD CONNECTOR; PROTECTIVE CABLE SHROUD (HDPE); POWER/ALARM CABLE 12-6 W/GND; E/ONE EQUALIZER; INTERNAL WELL VENT 2.0" DIA.; INLET, GROMMET TO ACCEPT 4.50" O.D. PVC PIPE (STANDARD); DUST COVER SUPPLIED FOR SHIPMENT (NOT SUITABLE FOR BURIAL); ALARM; ON; OFF; 18 in 447 mm; 47 gal 179 L; 32 gal 121 L; 26 in 650 mm; TO INLET; 36.0 in 914 mm; DISCHARGE 1-1/4" FPT; 1-1/4" DISCHARGE LINE (304 S.S.); CHECK VALVE (NORYL); ANTI-SIPHON VALVE (NORYL); 41.6 in 1057 mm TO DISCHARGE; 29.5 DIA in 749 mm; 14 in 345 mm; 24 gal 91 L; HDPE TANK, CORRUGATED 70 GALLON CAPACITY; SEMI-POSITIVE DISPLACEMENT TYPE PUMP, EACH DIRECTLY DRIVEN BY A 1 HP MOTOR.

CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTION FOR DETAILS

NOTE: DIMENSIONS ARE FOR REF ONLY

AD	CH	10/20/10	D	
DR BY	CHK'D	DATE	ISSUE	SCALE

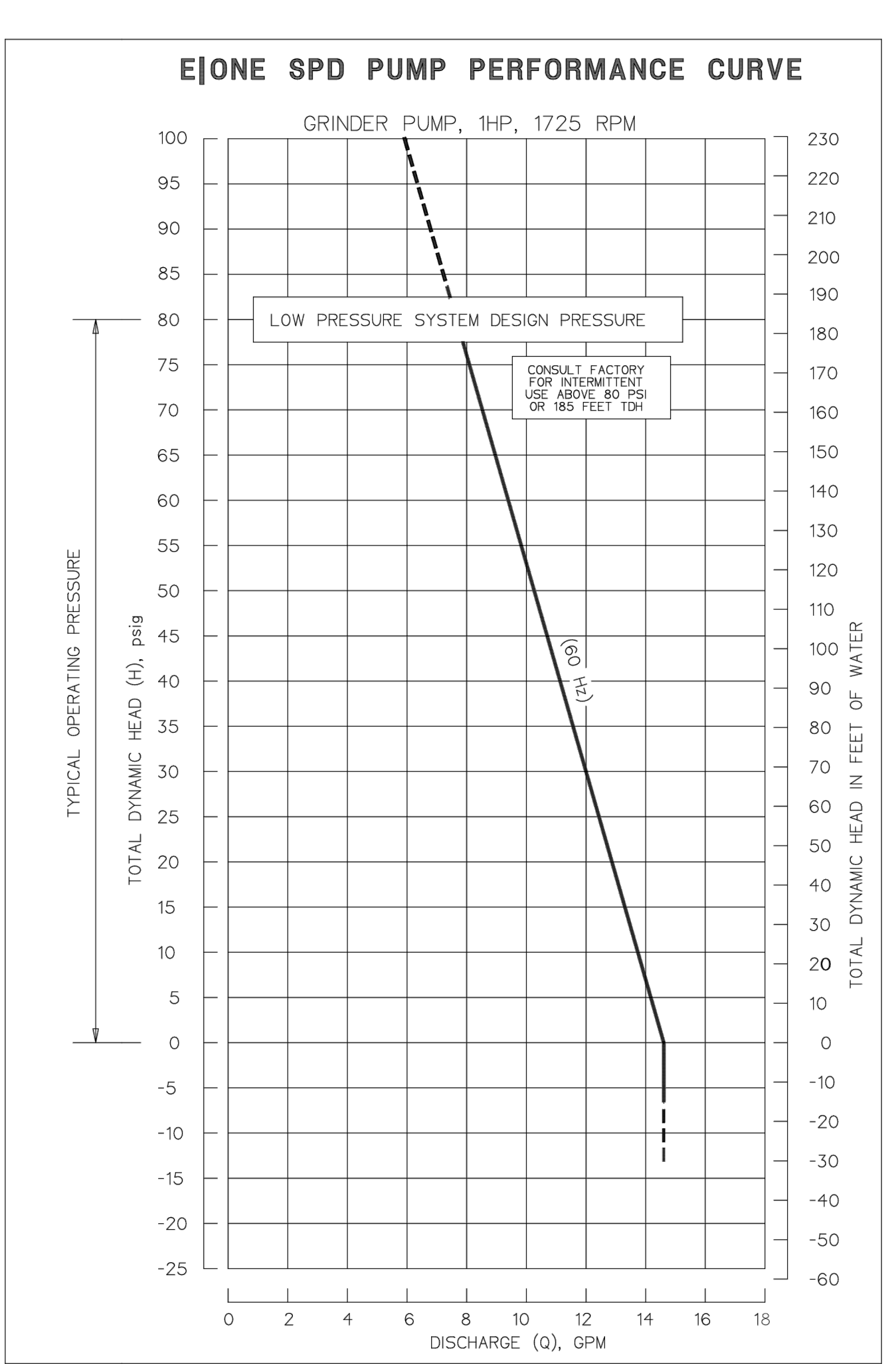
eone SEWER SYSTEMS
 MODEL DH071 / DR071
 DETAIL SHEET
 NA0050P02

OPTIONS: DH071-124 (HARD WIRED LEVEL CONTROLS)
 DR071-124 (WIRELESS LEVEL CONTROLS)

Labels include: GRADE MUST SLOPE AWAY FROM STATION; GRADE; 76" COVER OVER DISCH; 84" INVERT DEPTH; 123.3"; 41.6"; 36.0"; DISCHARGE 1-1/4" FEMALE PIPE THREAD; INLET, GROMMET FOR 4" DWV PIPE (STANDARD); Ø 29.5"; CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS; NOTE: DIMENSIONS ARE FOR REF ONLY.

AD	CAH	07/13/07	B	1/16
DR BY	CHK'D	DATE	ISSUE	SCALE

eone SEWER SYSTEMS
 MODEL DH071-124 / DR071-124
 NA0050P07



OPTIONS: DH151 (HARD WIRED LEVEL CONTROLS)
 DR151 (WIRELESS LEVEL CONTROLS)

FIELD JOINT REQUIRED FOR MODELS DH151-129 / DR151-129 & DH151-160 / DR151-160

Labels include: GASKETED LID, HDPE; STRAIN RELIEF CORD CONNECTOR; E/ONE EQUALIZER; DUAL WALL CORRUGATED HDPE ACCESSWAY; INTERNAL WELL VENT 2.0" DIAMETER; INLET, GROMMET TO ACCEPT 4.50" O.D. PVC PIPE (STANDARD); DUST COVER SUPPLIED FOR SHIPMENT (NOT SUITABLE FOR BURIAL); ALARM; ON; OFF; 29 in 737 mm; 116 gal 439 L; 21 in 534 mm; 84 gal 318 L; 17 in 432 mm; 66 gal 250 L; 43.9 in 1115 mm; DISCHARGE 1 1/4" FPT; 1 1/4" DISCHARGE LINE (304 S.S.); CHECK VALVE (NORYL); ANTI-SIPHON VALVE (NORYL); 1/2" NOMINAL WALL THICKNESS 150 GALLON CAPACITY; SEMI-POSITIVE DISPLACEMENT TYPE PUMP DIRECTLY DRIVEN BY A 1 HP MOTOR.

CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

AD	CH	10/20/10	D	
DR BY	CHK'D	DATE	ISSUE	SCALE

eone SEWER SYSTEMS
 MODEL DH151 / DR151
 DETAIL SHEET
 NA0051P02

OPTIONS: DH151-129 (HARD WIRED LEVEL CONTROLS)
 DR151-129 (WIRELESS LEVEL CONTROLS)

Labels include: GRADE MUST SLOPE AWAY FROM STATION; GRADE; 78" COVER OVER DISCH; 86" INVERT DEPTH; 127.1"; 43.9"; 38.4"; DISCHARGE 1-1/4" FEMALE PIPE THREAD; INLET, EPDM GROMMET FOR 4" DWV PIPE (STANDARD); Ø 38.8"; BALLAST CONTAINMENT RING; 3/8" STAINLESS STEEL HARDWARE -FIELD ASSEMBLY- (16 PLACES); SIKKA TAPE -FIELD LOCATE-; DETAIL, FIELD JOINT; SEE INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS; CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS.

AD	CAH	07/13/07	C	1/16
DR BY	CHK'D	DATE	ISSUE	SCALE

eone SEWER SYSTEMS
 MODEL DH151-129 / DR151-129
 NA0051P07

SIMPLEX SENTRY

REDUNDANT RUN (HIGH LEVEL)
 EXTERNAL VISUAL & AUDIBLE ALARM
 EXTERNAL LATCHING MANUAL SILENCE
 MANUAL RUN
 PUMP RUN INDICATOR
 CONFORMAL COATED CIRCUIT BOARD
 PADLOCK
 NEMA 4X ENCLOSURE ASSEMBLY
 CORROSION PROOF THERMOPLASTIC POLYESTER APPROVED BY UL FOR ELECTRICAL CONTROL ENCLOSURE

Labels include: RED; 15.42; 13.84; 11.55; ALARM CONTACTS; HOUR METER; CE; UPC® ASME A112.3.4; LR28268 LISTED 500D; ALARM; SILENCE SWITCH; ALARM LAMP; PUMP POWER; MANUAL RUN; ALARM RETURN; TO PUMP; PUMP RUN; MANUAL RUN; RETURN; PTC RESISTOR; POWER LOSS HIGH LEVEL ALARM CONTACT (GREEN SENTRY); DRY CONTACT (WHITE SENTRY); ALARM FEED (ORANGE); ALARM RETURN (BLUE); 2000S EXTREME; 1 MANUAL RUN (RED); 2 BROWN; 3 BLACK; 4 WHITE; 5 GREEN; 6 ALARM FEED (ORANGE); 7 ALARM RETURN (BLUE); CONTROL CABLE: TYPE 1C, DIRECT BURIAL, 12AWG, SIX CONDUCTOR.

AD	SM	01/9/08	D	N/A
DR BY	CHK'D	DATE	ISSUE	SCALE

eone SEWER SYSTEMS
 SIMPLEX SENTRY, 120V 60Hz.
 SINGLE POLE POWER
 LM000327

HORIZON NEIGHBORHOOD PRUD
 SEWER EJECTOR DETAILS

DATE SUBMITTED: 09-12-2016

PREPARED FOR: SUMMIT POWDER MOUNTAIN

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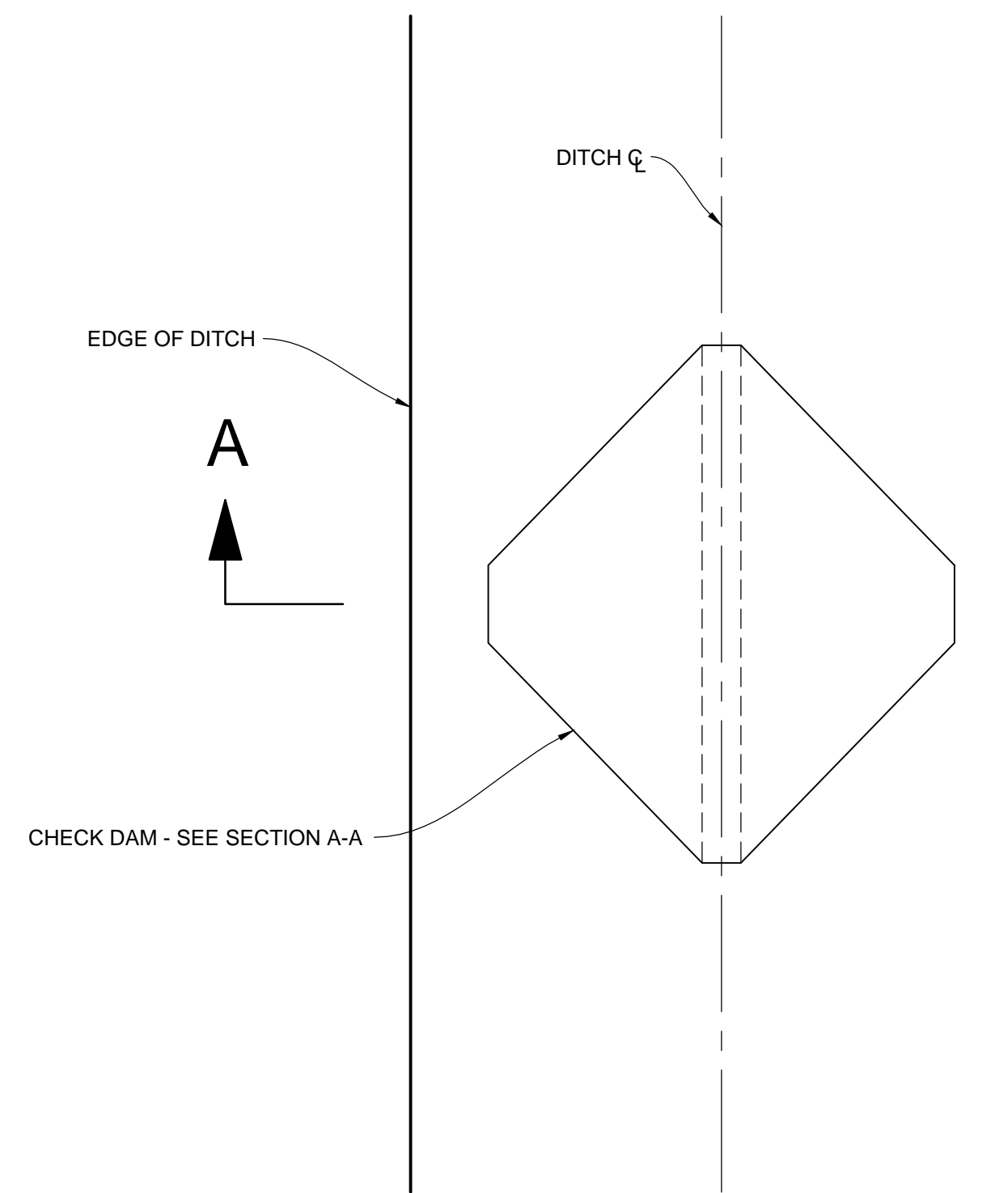
REGISTERED PROFESSIONAL ENGINEER
 No. 7899506
 RYAN W. CATHEY
 STATE OF UTAH

SHEET NUMBER
6.03

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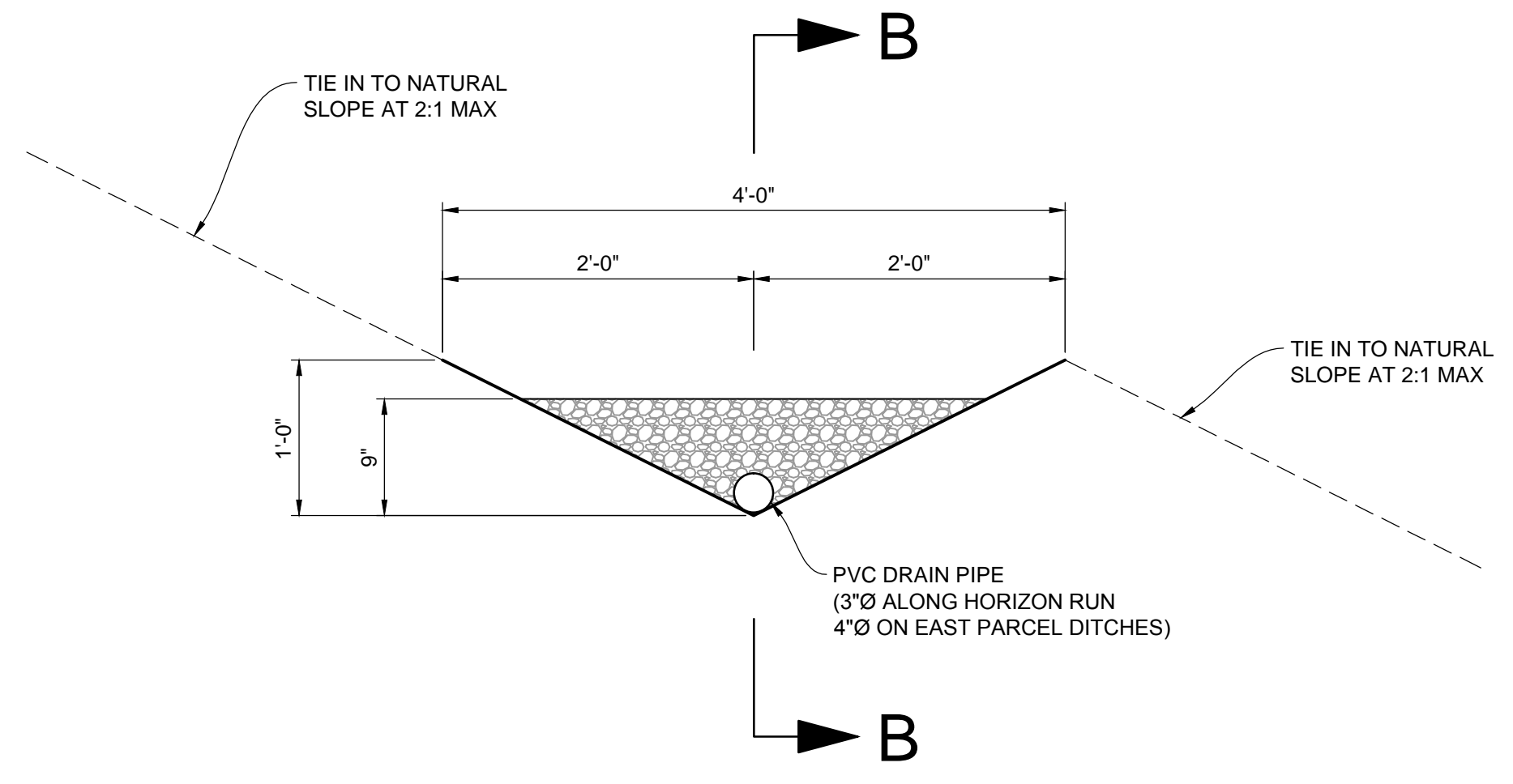
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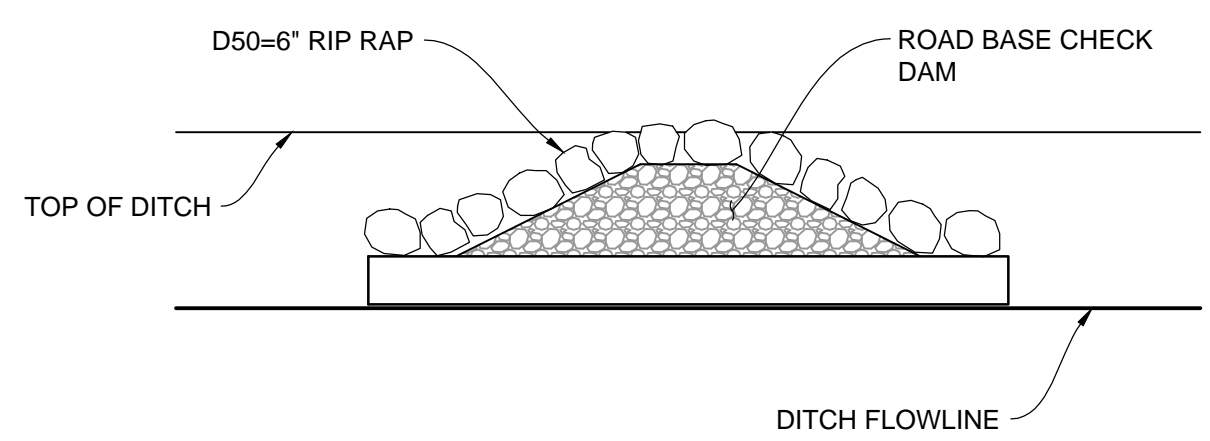


PLAN VIEW

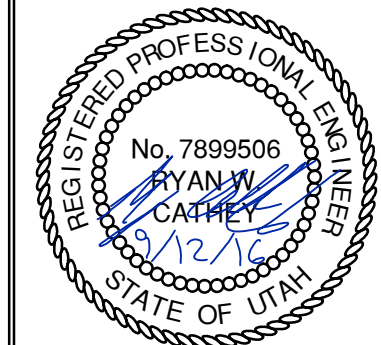
CHECK DAM DETAIL
 VAR NTS



SECTION A-A



SECTION B-B



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PREPARED FOR: SUMMIT POWDER MOUNTAIN

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