

DATE: 6/28/16 TIME: 3:42:05 PM DRAWING NAME: 100 - CIVIL TITLE SHEETING
 SERVER: NONE PAGE SETUP: PLOT - 33x-24x-8 LAYOUT: LAYOUT1
 PATH: N:\S\B0793\CAD\HORIZON VILLAGE\IP DESIGNER: HHH PROJ. MGR: HHH

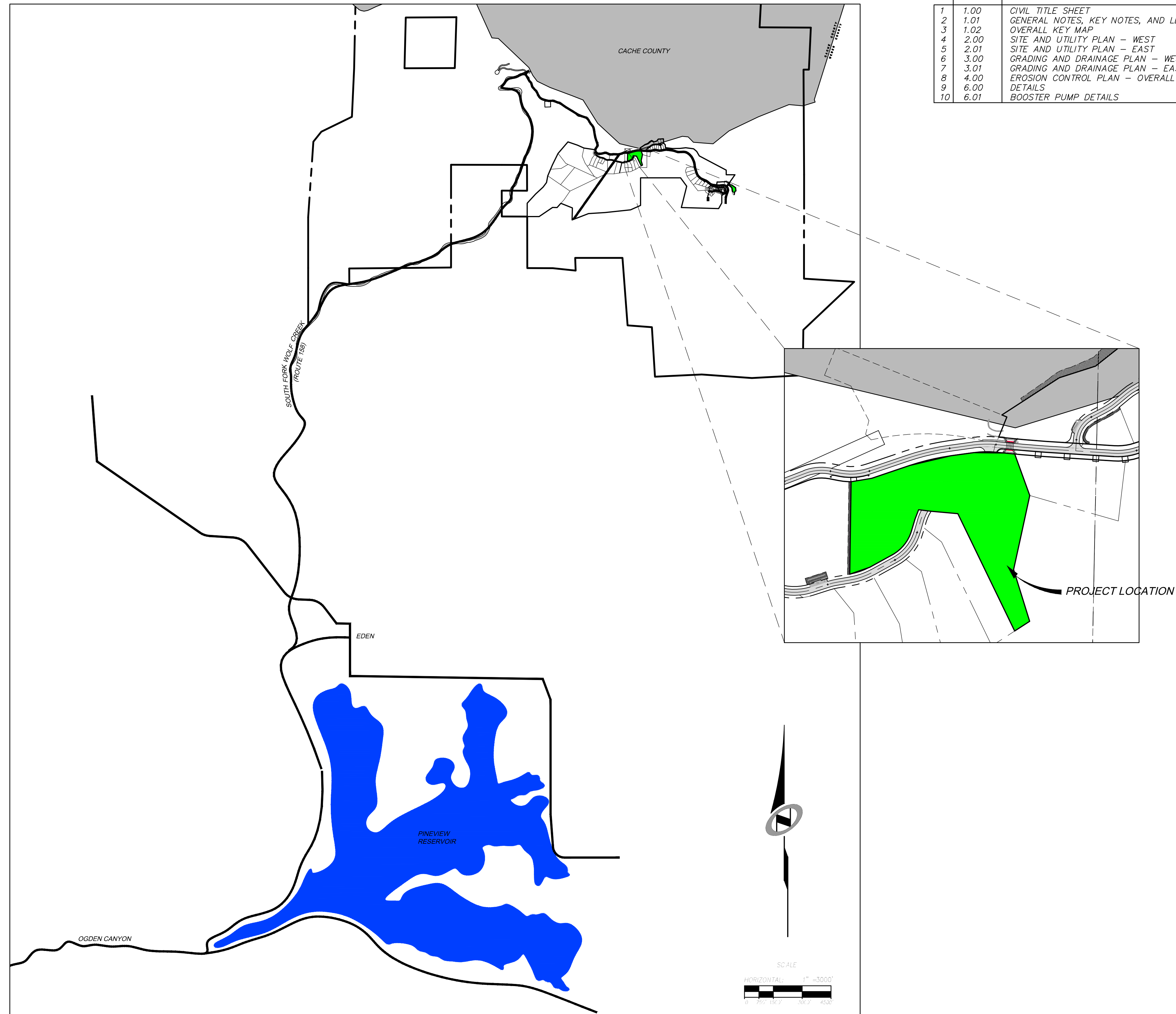
HORIZON NEIGHBORHOOD AT POWDER MOUNTAIN

CONSTRUCTION DRAWINGS

Located in Sec 08 T7N R2E
 Weber County, Utah

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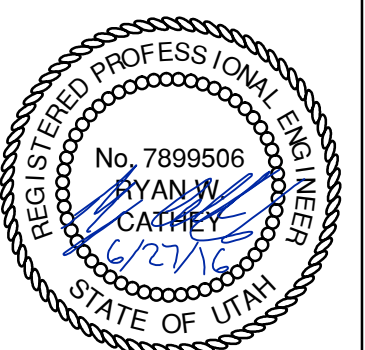


HORIZON NEIGHBORHOOD
 CIVIL TITLE SHEET

NV5

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

MURRAY, UT 8407
 WWW.NV5.COM



SHEET NUMBER
1.00

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

JOB NUMBER
SLB0793



DATE SUBMITTED: 06-27-2016

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

MURRAY, UT 8407
 WWW.NV5.COM

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

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 unless they are specifically approved by the preparer of these plans.

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 ADJUTS 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 SIGNS 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 TIE 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 1-800-662-4111 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 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.
- 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" W	8"Ø C-900 PVC WATER PIPE (UNLESS NOTED OTHERWISE)
	3" F	3"Ø DR7.3 HDPE PIPE (UNLESS NOTED OTHERWISE)
	W	PROPOSED WATER METER
	8"SS HDPE	8"Ø SDR35 PVC SEWER PIPE
	(1)SS-P	1.5"Ø PRESSURE SEWER PIPE- DR-11 IPS
	G	PROPOSED GAS MAIN
	G	PROPOSED GAS METER
	P	PROPOSED ELECTRICAL CONDUIT
	P	PROPOSED FIRE HYDRANT ASSEMBLY/STAND PIPE
	P	PROPOSED SEWER CLEANOUT
	P	PROPOSED SEWER MANHOLE
		PROPOSED PAVEMENT SECTION
		ADJOINING PROPERTY BOUNDARY
		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:

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.

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

*** SEED MIXTURE FOR REVEGETATION**

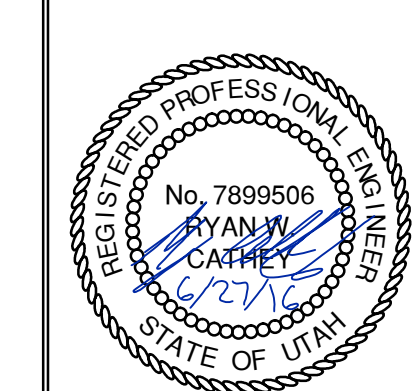
- a. MEADOW BROME (RIGOR) 14lb/ac
- b. ORCHARD GRASS 10lb/ac
- c. ALFALFA (ADAK) 4lb/ac

NO.	DATE	BY	REVISIONS

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HORIZON NEIGHBORHOOD
 GENERAL NOTES, KEY NOTES, AND LEGEND
 DATE SUBMITTED: 06-27-2016
 PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC
 MURRAY, UT 84007
 WWW.NV5.COM

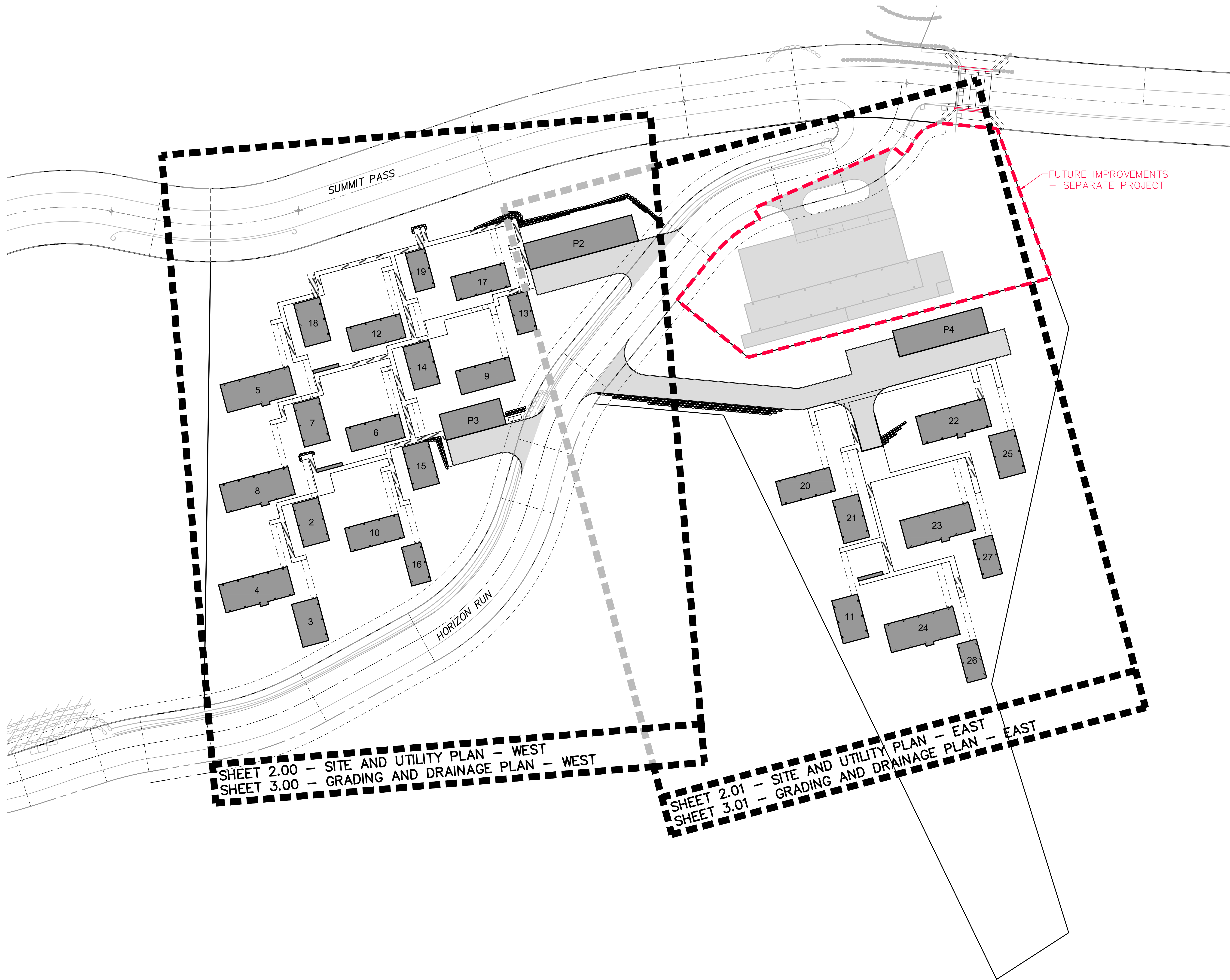
NV5
 6217 SOUTH STATE STREET, SUITE 200
 8017431800 TEL. 8017430800 FAX



SHEET NUMBER	1.01
SCALE	VERTICAL: 1"= N/A HORIZONTAL: 1"= N/A
JOB NUMBER	SLB0793



DATE: 6/29/16 TIME: 3:43:18 PM DRAWING NAME: 102 - OVERALL KEY MAP.DWG
 SERVER: NONE PAGE SETUP: PLOT-CAD-24x36 LAYOUT: LAYOUT1
 PATH: N:\SLB0793\CAD\HORIZON VILLAGE\VP DESIGNER: ### PROJ. NO: ###



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



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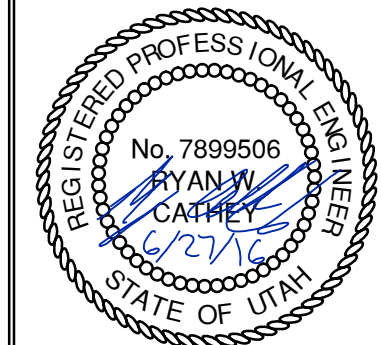
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HORIZON NEIGHBORHOOD OVERALL KEY MAP



MURRAY, UT 8407
 WWW.NV15.COM

6217 SOUTH STATE STREET, SUITE 200
 801743.8000 TEL. 801743.0300 FAX



SHEET NUMBER
1.02

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

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PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 06-27-2016

DATE: 6/28/16 TIME: 3:44:46 PM DRAWING NAME: SITE AND UTILITY PLAN - WESTING
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SEWER INFORMATION				
MANHOLE	RIM	INVERT IN	INVERT OUT	DOWNSTREAM PIPE
MH01	8727.45	8717.45	8705.81	FIELD VERIFY EXIST INVERT AND PIPE SLOPE
MH02	8759.32	8752.04	8726.93	90.8 LF @ 10.0%
MH03	8756.72	8752.72	8752.52	20.0 LF @ 2.0%
MH04	8785.30	8781.30	8760.87	77.5 LF @ 10.0%
MH05	8795.44	-	8785.88	41.8 LF @ 10.0%
MH06	8793.60	-	8775.38	94.4 LF @ 10.0%
MH07	8770.65	8765.99	8754.75	79.9 LF @ 10.0%
MH08	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.
- 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 INSTALL 8" 45' BEND 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 3/4" SERVICE LATERAL PER APWA STANDARD PLAN NO. 552.
- 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.
- 26 INSTALL 2" PRESSURE WASHOUT.
- 27 WYE CONNECT TO 8" SEWER LINE.
- 28 GAS PIPES, METERS, AND STORAGE TANKS (1,000 GAL) TO BE INSTALLED 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 SHEET 6.01.
- 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 4'x12' CONCRETE GENERATOR PAD. SEE ELECTRICAL PLANS.

NO.	DATE	BY	REVISIONS

HORIZON NEIGHBORHOOD
SITE AND UTILITY PLAN - WEST

DATE SUBMITTED: 06-27-2016

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

MURRAY, UT 84007
 WWW.NV5.COM

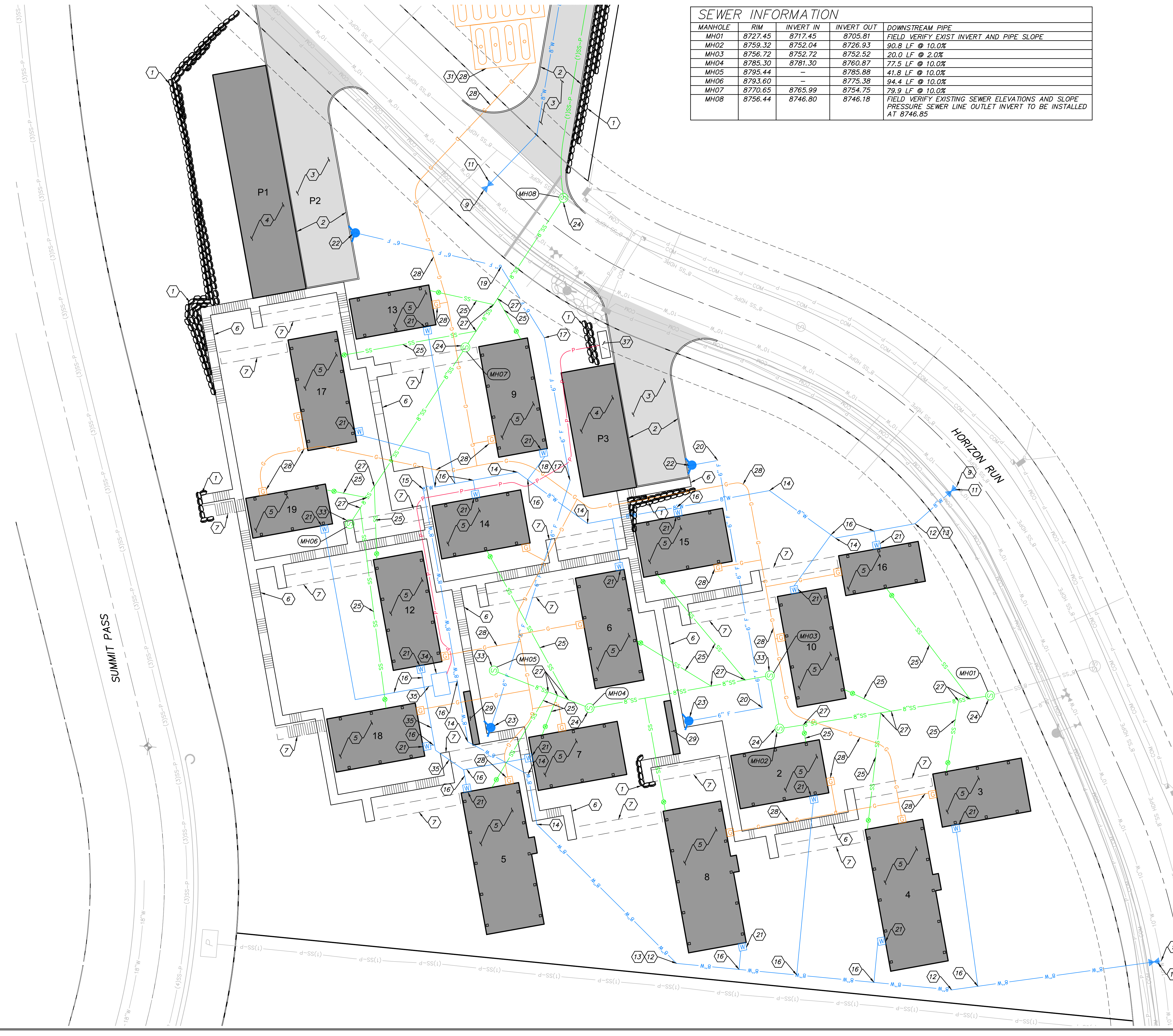
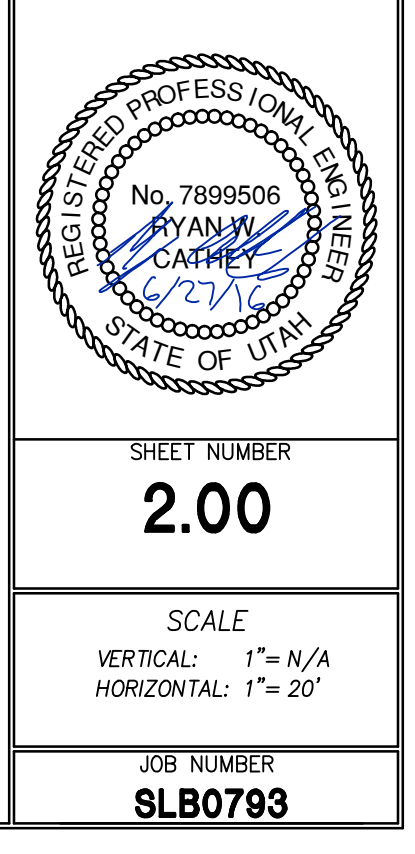
NV5

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

SHEET NUMBER
2.00

SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = 20'

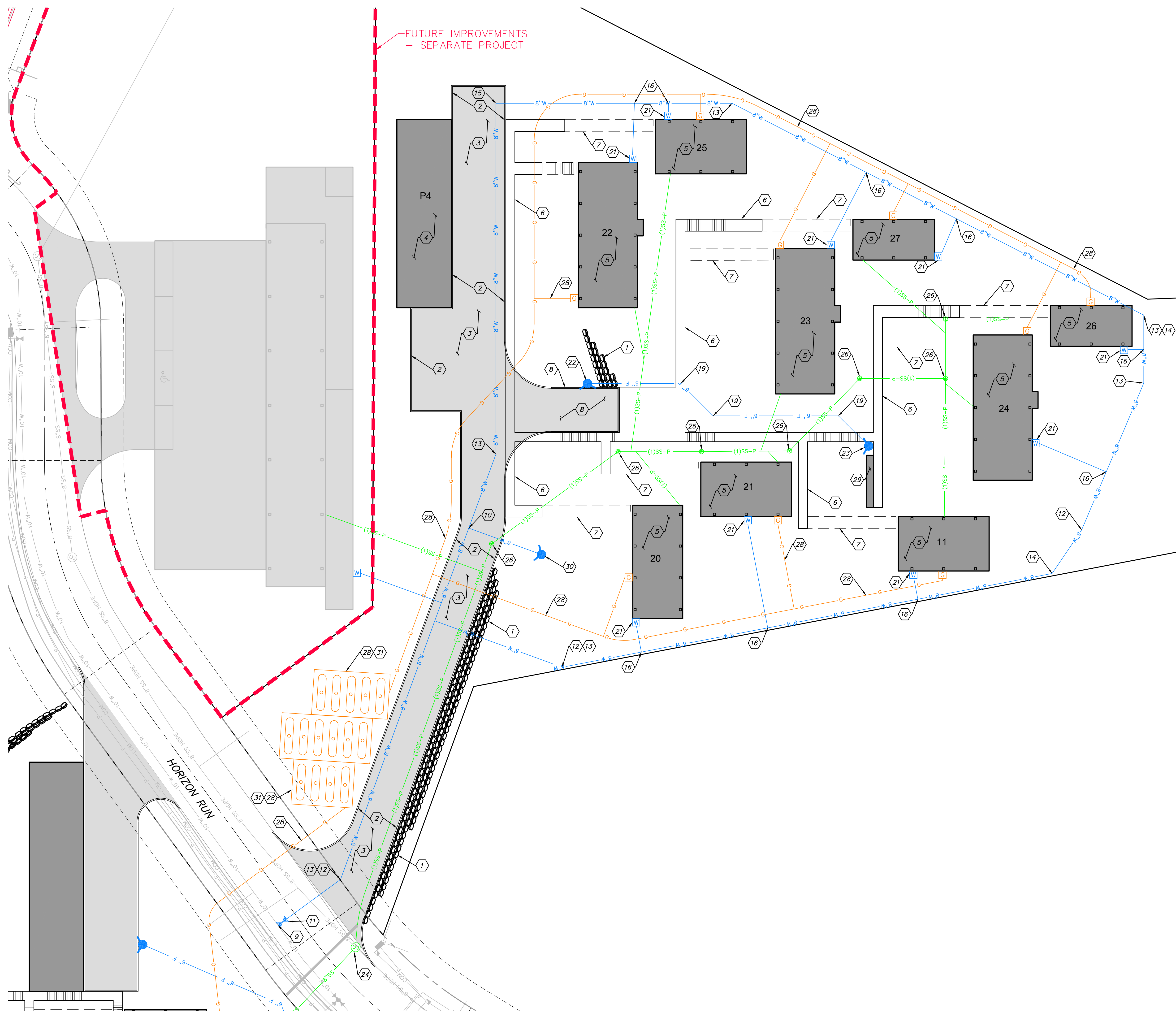
JOB NUMBER
SLB0793



BRASCH XREFS:

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

BAISCH XREFS:



FUTURE IMPROVEMENTS
 - SEPARATE PROJECT

KEY NOTES

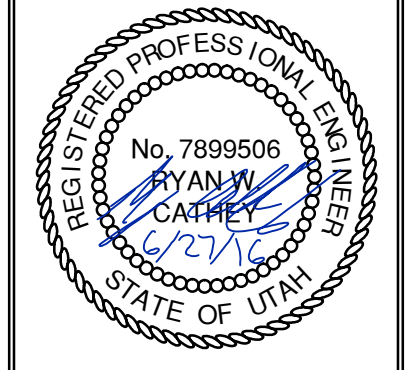
- 1 ROCKERY IN THIS AREA TO BE CONSTRUCTED PER "ROCKERY CONSTRUCTION FOR WET CONDITIONS, PHASE 1E, 1F AND 1G, POWDER MOUNTAIN RESORT, WEBER COUNTY, UTAH" PRODUCED BY IGES. IGES PROJECT NUMBER 01628-011, DATED JANUARY 18, 2016
- 2 INSTALL RIBBON CURB PER DETAIL A/SHEET 6.00.
- 3 INSTALL PAVEMENT ASPHALT 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.
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- 37 4'x12' CONCRETE GENERATOR PAD. SEE ELECTRICAL PLANS.

HORIZON NEIGHBORHOOD
 SITE AND UTILITY PLAN - EAST

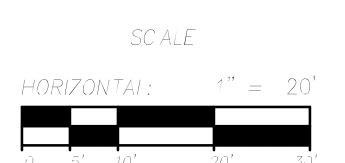
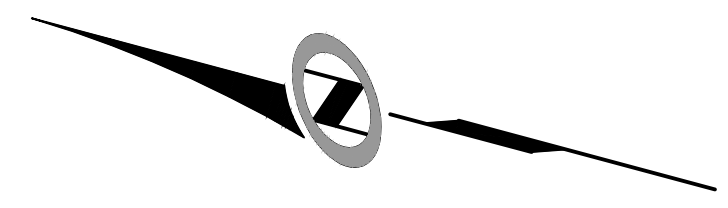
MURRAY, UT 84007
 WWW.NV5.COM



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



SHEET NUMBER	2.01
SCALE	VERTICAL: 1" = N/A HORIZONTAL: 1" = 20'
JOB NUMBER	SLB0793

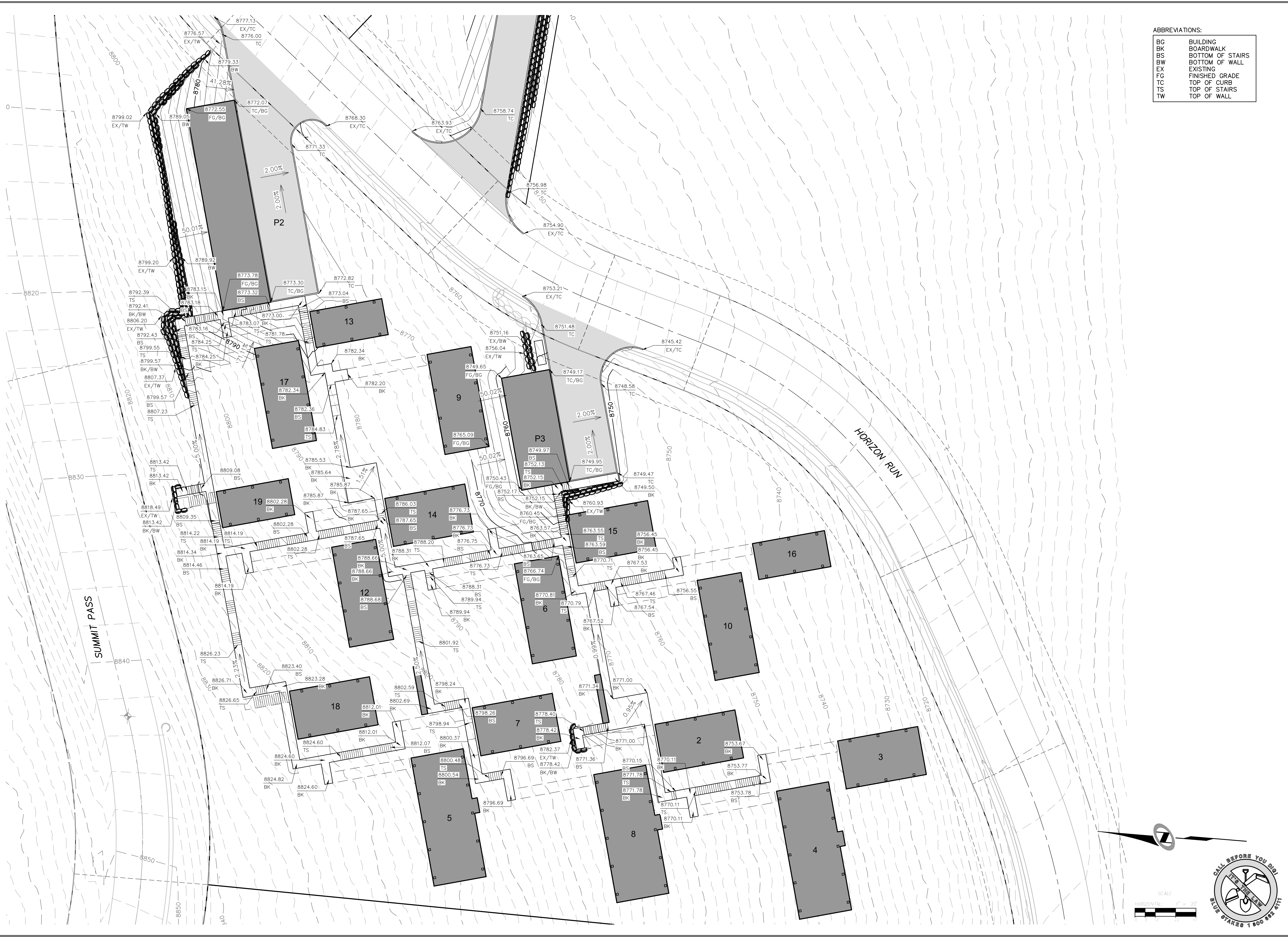


The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans unless they are specifically approved by the engineer.

DATE SUBMITTED: 06-27-2016

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

DATE: 6/28/16 TIME: 3:45:10 PM DRAWING: GRADING AND DRAINAGE PLAN - WEST.DWG
 SERVER: NONE PAGE SETUP: PPT-C3D-24x36 LAYOUT: LAYOUT1
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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

NO.	DATE	BY	REVISIONS

HORIZON NEIGHBORHOOD
GRADING AND DRAINAGE PLAN - WEST

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

DATE SUBMITTED: 06-27-2016

NV5

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 801743-8000 TEL. 801743-0800 FAX

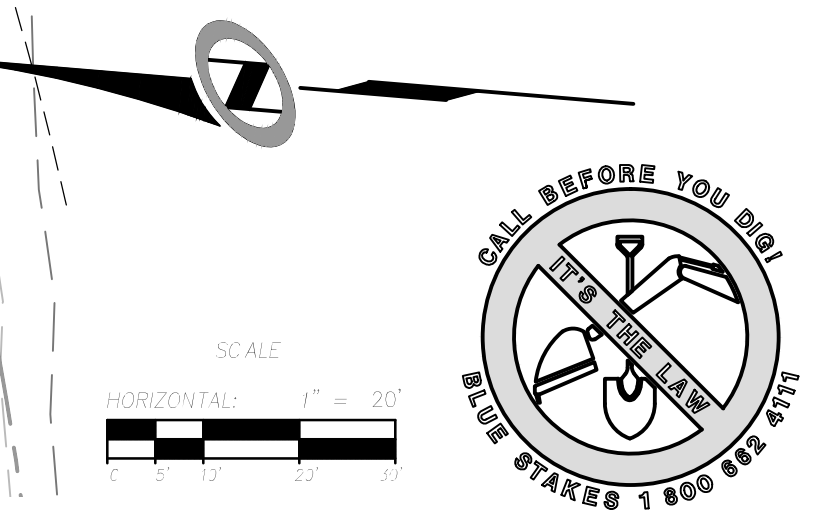
MURRAY, UT 84407
 WWW.NV5.COM

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

SHEET NUMBER
3.00

SCALE
 VERTICAL: 1" = N/A
 HORIZONTAL: 1" = 20'

JOB NUMBER
SLB0793



BASCH XREFS:

DATE: 6/28/16 TIME: 3:50:09 PM DRAWING: GRADING AND DRAINAGE PLAN - EAST
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BASCH
 XREFS:



ABBREVIATIONS:

BC	BUILDING
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TC	TOP OF CURB
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NO.	BY	DATE	REVISIONS

CAUTION
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HORIZON NEIGHBORHOOD GRADING AND DRAINAGE PLAN - EAST

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC DATE SUBMITTED: 06-27-2016

MURRAY, UT 84007
 WWW.NV5.COM

5217 SOUTH STATE STREET, SUITE 200
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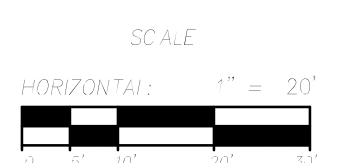
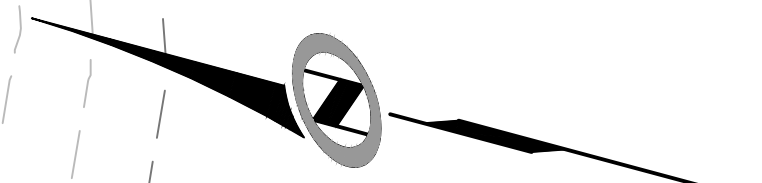
NV5

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

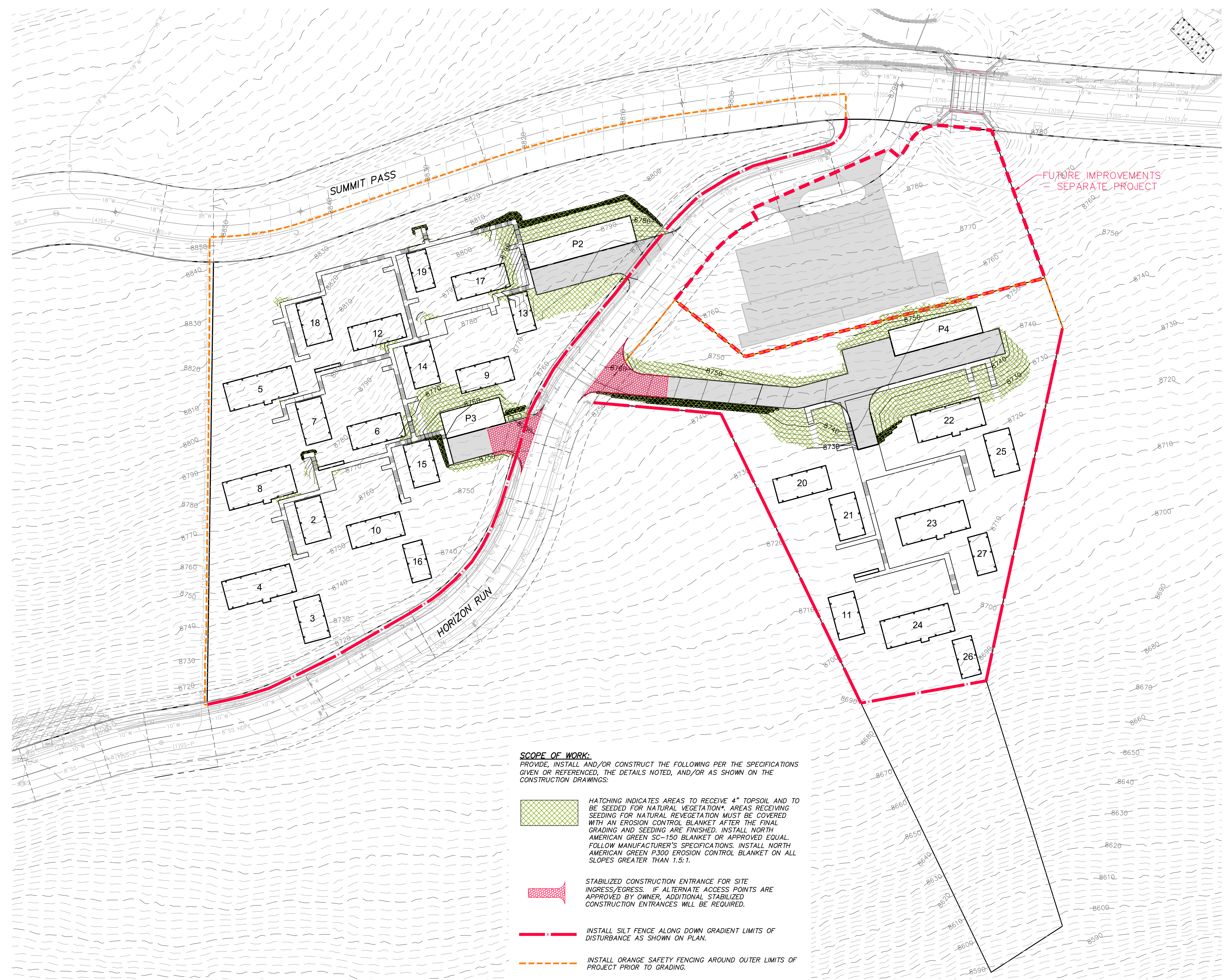
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SCALE
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 HORIZONTAL: 1" = 20'

JOB NUMBER
SLB0793

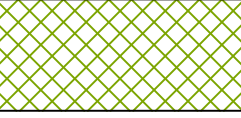
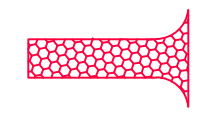




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 PATH: N:\S\B0793\CAD\HORIZON VILLAGE\IP_030000_###_PROJ.MXD: ###



FUTURE IMPROVEMENTS
 = SEPARATE PROJECT

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 F300 EROSION CONTROL BLANKET ON ALL SLOPES GREATER THAN 1.5:1.
-  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'
 VERTICAL: 1" = 40'

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

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

DATE SUBMITTED: 06-27-2016

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC

MURRAY, UT 8407
WWW.NV5.COM

HORIZON NEIGHBORHOOD

EROSION CONTROL PLAN - OVERALL

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.

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

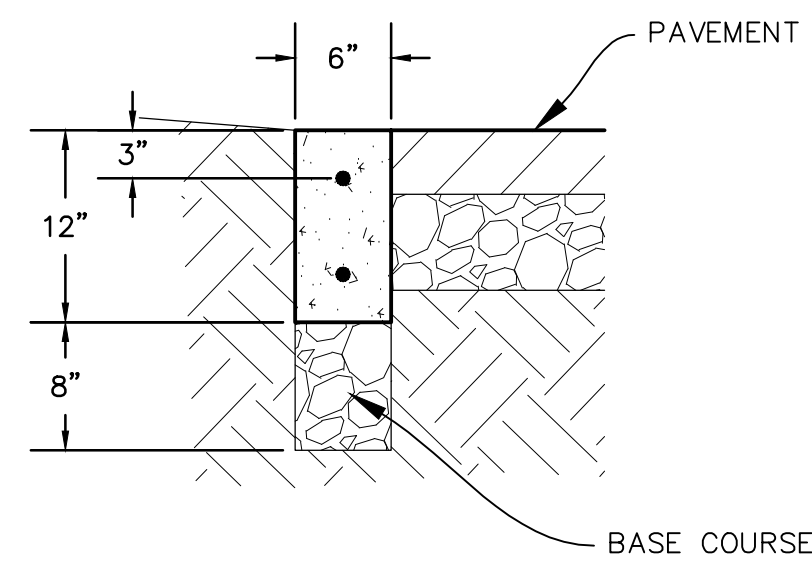
NV5

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

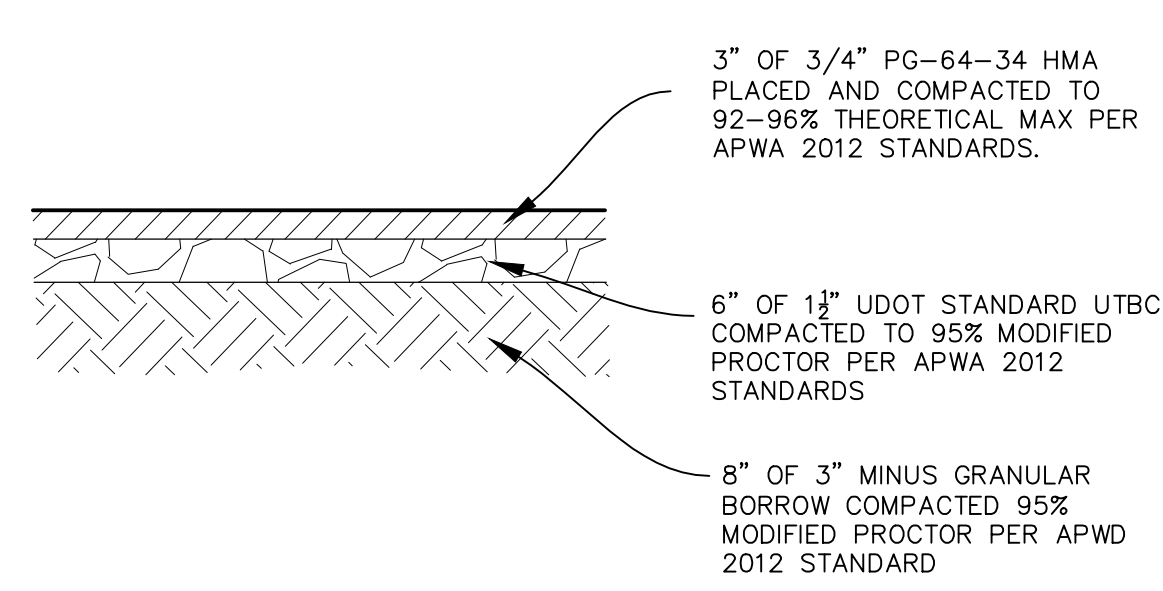
SHEET NUMBER
4.00

JOB NUMBER
SLB0793

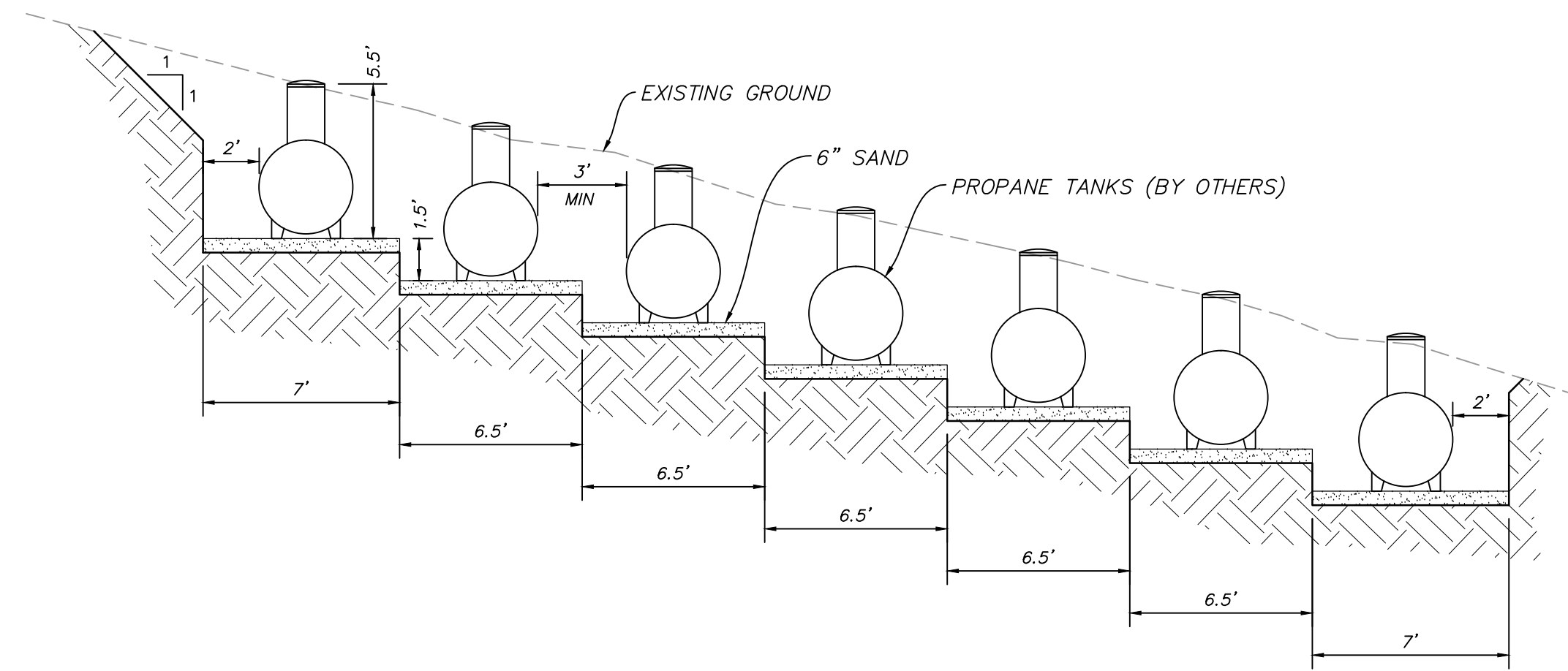
BASCH XREFS:



A
RIBBON CURB
 (MODIFIED TYPE P CURB)
 NTS



B
PARKING ASPHALT SECTION
 NTS



SECTION A-A

C
PROPANE TANK PIT
 VAR NTS

NO.	BY	DATE	REVISIONS

CAUTION
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HORIZON NEIGHBORHOOD
DETAILS

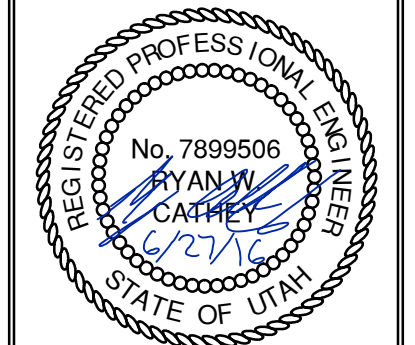
DATE SUBMITTED: 06-27-2016

PREPARED FOR: SUMMIT MOUNTAIN HOLDING GROUP, LLC



MURRAY, UT 84007
 WWW.NV5.COM

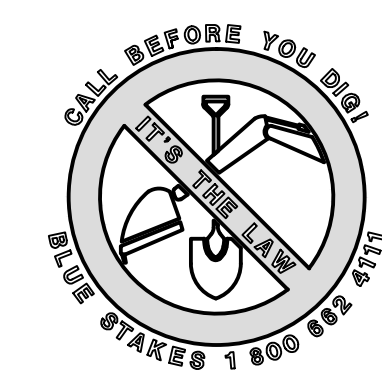
6217 SOUTH STATE STREET, SUITE 200
 801743.8000 TEL. 801743.0800 FAX



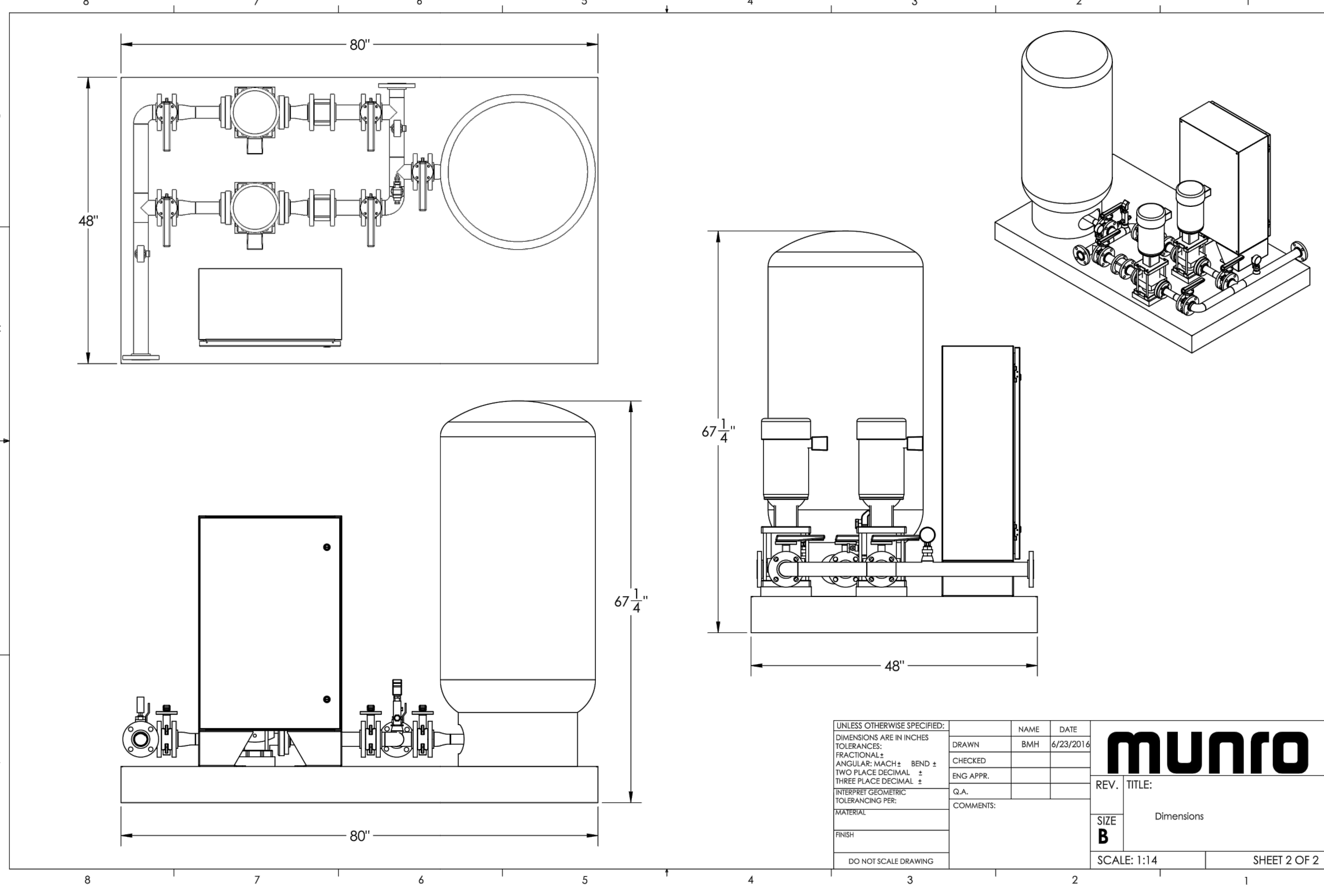
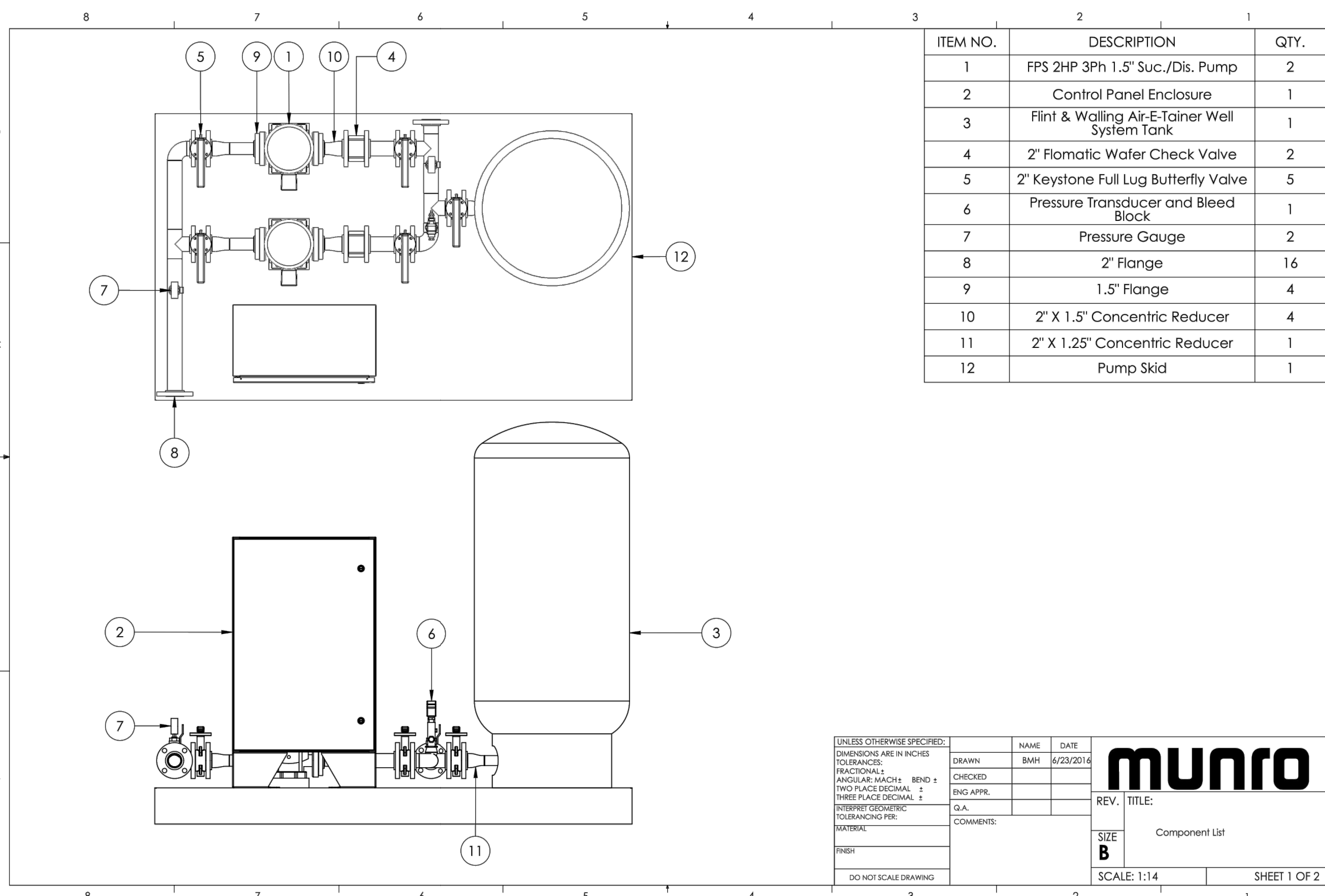
SHEET NUMBER
6.00

SCALE
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JOB NUMBER
SLB0793



DATE: 6/28/16 TIME: 3:52:47 PM DRAWING NAME: E01 - DETAILS.DWG
 SERVER: NONE PLOT SETUP: PLOT-CAD-24x36 LAYOUT: LAYOUT1
 PATH: N:\S\B0793\CAD\HORIZON VILLAGE VP DESIGNED: MURRAY, UT 8407
 PROJ. NO.: 888



Pump Data Sheet - Franklin Electric

Company: NVS
 Name: FPS 2HP 3Ph 1.5" Suc./Dis. Pump
 Date: 6/21/2016

Pump:
 Size: SVR 2-8 stage
 Type: Multi-Stage
 Synch Speed: 3600 rpm
 Curve:
 Specific Speeds:
 Dimensions:

Search Criteria:
 Flow: 30 US gpm
 Head: 85 ft
 Fluid:
 Temperature: 60 °F
 Vapor Pressure: 0.2563 psi a
 Atm Pressure: 14.7 psi a
 NPSHr: ---

Motor:
 Standard: ---
 Enclosure: ---
 Sizing Criteria: none specified
 Speed: ---
 Frame: ---

Pump Limits:
 Temperature: ---
 Pressure: ---
 Sphere Size: ---

Duty Point:
 Flow: 33.2 US gpm
 Head: 104 ft
 Eff: 54%
 Power: 1.6 hp
 NPSHr: 7.44 ft

Design Curve:
 Shutoff Head: 162 ft
 Shutoff QP: 70.2 gpm
 Min Flow:
 BEP: 56.2 @ 26.3 US gpm
 NOL Power:
 1.7 hp @ 44 US gpm

Max Curve:
 Max Power:
 4.49 hp @ 44 US gpm

Head - ft
 NPSHr - ft
 Power - hp
 US gpm

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

FW019
 0616
 Supersedes
 0416

FLINT & WALLING
 Zoeller Family of Water Solutions™

AIR-E-TAINER®
WELL SYSTEM TANKS

- Inline 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

In-line tanks
 132477

Vertical Tanks
 132661 138875
 132662 135460
 132663 136876
 133517

AIR-E-TAINER® PRE-PRESSURIZED WELL SYSTEM TANKS

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	8-1/4 x 10-1/5	5	3/4" M	29	100	140
132477	4.6	1.6 1.4	11 x 14-3/4	9	3/4" M	28	100	140
132661	14	5.2 4.3	15-3/8 x 24-3/4	25.5	1" F	38	100	200
132662	20	7.4 6.2	15-3/8 x 32-1/4	30	1" F	38	100	200
132663	36	13.3 11.1	20 x 38-5/8	45	1" F	38	100	200
133517	52	19.2 16.1	23-3/8 x 38-5/8	77	1-1/4" F	38	100	200
136875	66	23.9 20	23-3/8 x 48-3/8	87	1-1/4" F	38	100	200
135460	86	31.8 26.7	23-3/8 x 58	105	1-1/4" F	38	100	200
136876	119.5	44 37	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.

NOTE: Pre-charged tanks cannot ship via air freight.

Flint & Walling | 95 North Oak Street | Kendallville, IN 46755
 800-345-9422 | www.flintandwalling.com

Franklin Electric

MULTI-STAGE PUMPS
 VERTICAL VR SERIES

FPS

DIMENSIONS SVR PUMP END AND MOTOR

F-FITTED
 T-FITTED
 V-FITTED

Pump End Dimensions (in)

Stages	HP	LF FT	Model No.
2	1	13.49	SVR2-60 N
3	1.5	14.44	SVR3-60 N
4	2	14.99	SVR4-60 N
5	3	15.93	SVR5-60 N
6	3	17.29	SVR6-60 N
7	5	18.25	SVR7-60 N
8	5	19.19	SVR8-60 N

 Motor Dimensions (in)

Stages	HP	LF FT	Model No.
9	5	20.14	SVR9-60 N
10	5	21.08	SVR10-60 N
11	7.5	21.54	SVR11-60 N
12	7.5	22.48	SVR12-60 N
13	7.5	23.43	SVR13-60 N
14	7.5	24.37	SVR14-60 N
15	7.5	25.31	SVR15-60 N

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.

Motor Dimensions (in)

Phase	HP	Frame	Standard Efficiency TEFC			Premium Efficiency TEFC			Phase	Standard Efficiency TEFC			Standard Efficiency TEFC				
			Volts	L2	M	D1	Volts	L2		M	D1	Volts	L2	M	D1		
1	55C	N/A	115/230	12.72	5.06	6.19	11.97	5.19	6.19	1	115/230	12.72	5.06	6.19	11.97	5.19	6.19
			208-230/460	13.22	5.06	6.2	N/A	N/A	N/A		208-230/460	13.22	5.06	6.2	N/A	N/A	N/A
			480/240	16.55	5.61	8.92	208-230/460	15.62	6.75		8.5	480/240	16.55	5.61	8.92	208-230/460	15.62
3	55C	N/A	115/230	17.29	5.19	7.19	17.29	5.19	7.19	3	115/230	17.29	5.19	7.19	17.29	5.19	7.19
			208-230/460	17.29	5.19	7.19	N/A	N/A	N/A		208-230/460	17.29	5.19	7.19	N/A	N/A	N/A
			480/240	16.55	5.61	8.92	208-230/460	15.62	6.75		8.5	480/240	16.55	5.61	8.92	208-230/460	15.62
5	55C	N/A	115/230	17.29	5.19	7.19	17.29	5.19	7.19	5	115/230	17.29	5.19	7.19	17.29	5.19	7.19
			208-230/460	17.29	5.19	7.19	N/A	N/A	N/A		208-230/460	17.29	5.19	7.19	N/A	N/A	N/A
			480/240	16.55	5.61	8.92	208-230/460	15.62	6.75		8.5	480/240	16.55	5.61	8.92	208-230/460	15.62

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

FLINT & WALLING
 Zoeller Family of Water Solutions™

AIR-E-TAINER®
WELL SYSTEM TANKS

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

Standard 40/60 PSI System

These illustrations show the operation of the Air-E-Tainer® tank in a typical 30/50 pressure range.

A. Tank is pre-pressurized with air at the factory.
 B. When pump starts, water enters the reservoir. At 50 psig, system is filled. Pump shuts off.
 C. When water is demanded, pressure in the air chamber forces water into the system. Pump turns on.
 D. When pressure in tank drops to pressure switch cut-in point (30 psig), pump refills the tank as in illustration B.

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MURRAY, UT 8407
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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

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