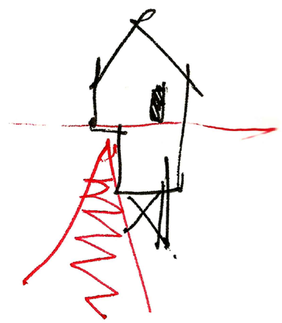


October 14, 2016

Issued for FDN Permit

MacKay-Lyons Sweetapple
Architects Limited
2188 Gottingen Street
Halifax, Nova Scotia Canada B3K 3B4
ph: (902) 429-1867 fax: (902) 429-6276

Blackwell
Structural Engineers
19 Duncan Street, Suite 405
Toronto, Ontario Canada M5H 3H1
ph: (416) 593-5300 fax: (416) 593-4840

Salmon Electrical Contractors
Electrical Engineers
1778 West 1180 South
Woods Cross, Utah, United States 84087
ph: (801) 292-3444

Layton Construction Company
Construction Management
9090 South Sandy Parkway
Sandy, Utah, United States, 84070
ph: (801) 568-9090

Mechanical Systems and Service Inc.
Mechanical Engineers
1055 South 700 West
Salt Lake City, Utah, United States 84104
ph: (801) 255-9333 fax: (801) 924-8583

Langvardt Design Group
Landscape
328 200 South
Salt Lake City, Utah, United States 84101
ph: (801) 583-1295

NV5
Civil Engineers
5217 S State St #200
Murray, Utah, United States 84107
ph: (801) 743-1300

CIVIL

C1.00	Keyplan
C1.01	General Notes, Key Notes and Legend
C1.02	Overall Key Map
C2.00	Site and Utility Plan - West
C2.01	Site and Utility Plan - East
C3.00	Grading and Drainage Plan - West
C3.01	Grading and Drainage Plan - East
C4.00	Erosion Control Plan Overall
C6.00	Details
C6.01	Booster Pump Details
C6.02	Booster Pump Details
C6.03	Sewer Ejector Details
C6.04	Details
E-01	Legends, Notes, and Schedules
GE-01	Electrical Details
E-02	Power One-Line Diagram

ARCHITECTURAL

A000	Specifications (not incl.)
A001	Abbreviations, Key Plan & Partition Types
A100	Site Plan
A101	Code Review, Fire Separation Plan & Finish Schedule
A200	Lower & Upper Level Plans
A201	Lower & Upper Level Reflected Ceiling Plans (not incl.)
A300	Exterior Elevations
A301	Exterior Elevations
A400	Building Sections
A401	Building Sections
A500	Plan Details (not incl.)
A510	Section Details (not incl.)
A511	Section Details (not incl.)
A520	Flashing and Membrane Details (not incl.)
A600	Millwork (not incl.)
A601	Millwork (not incl.)
A602	Millwork (not incl.)
A603	Millwork Details (not incl.)
A610	Stair (not incl.)
A700	Bridge (not incl.)
A900	Window/Door Schedule (not incl.)

STRUCTURAL

S-001	General Notes
S-002	Typical Details Foundations
S-010	Site Plan
S-100	Foundation Plan
S-101	Lower Level Framing Plan
S-102	Upper Level Framing Plan
S-103	Roof Framing Plan
S-104	Column Schedule
S-200	Steel Elevations
S-300	Shearwall Elevations
S-301	Shearwall Elevations Continued
S-400	Foundation Details
S-401	Lower Floor Framing Sections
S-402	Upper Floor Framing Sections
S-403	Roof Framing Sections

MECHANICAL (not incl.)

ELECTRICAL (not incl.)

Horizon Neighborhood Cabins

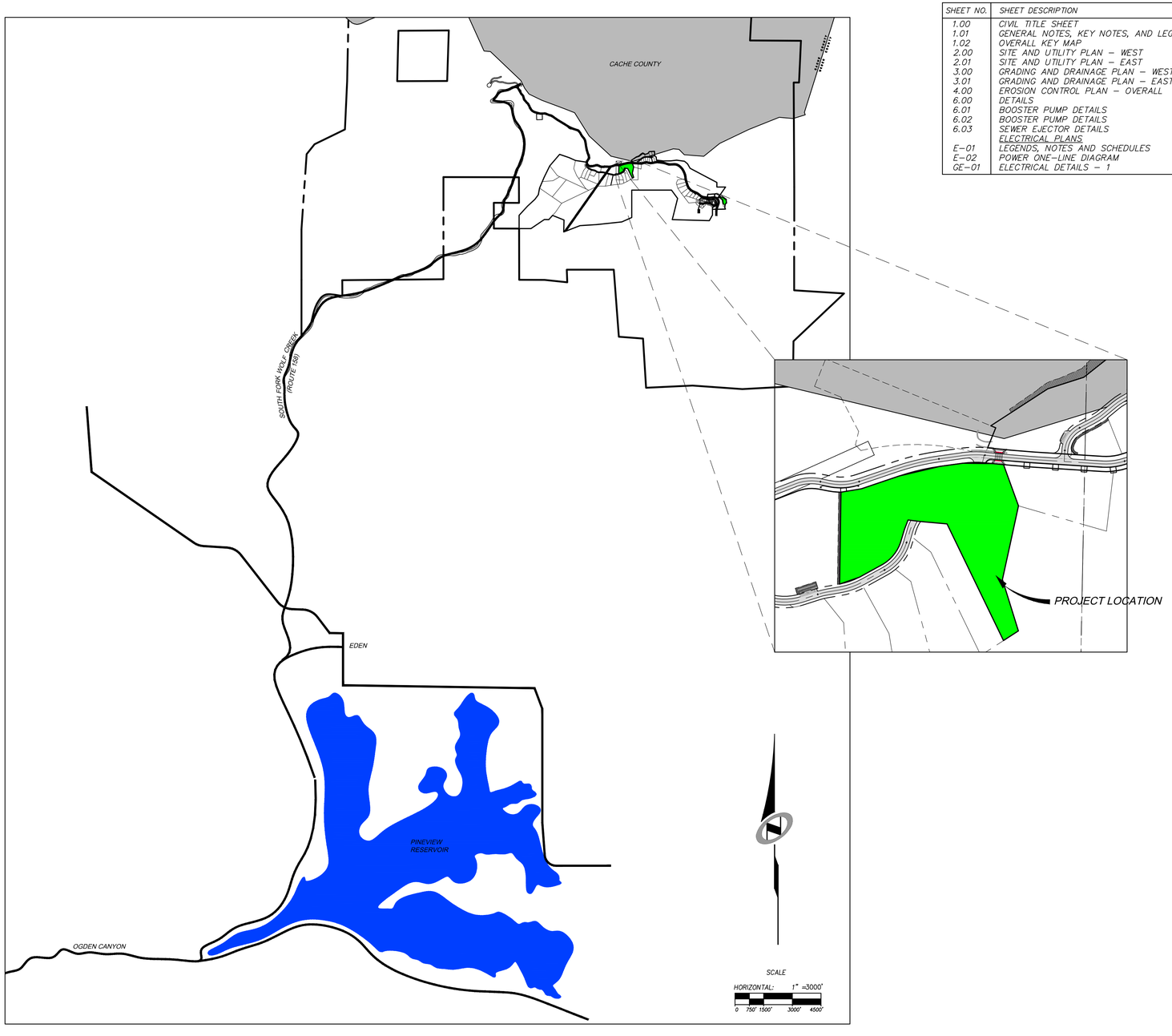
1500 SF Cabin

Summit Powder Mountain, Eden UT

HORIZON NEIGHBORHOOD PRUD
AT SUMMIT POWDER MOUNTAIN
CONSTRUCTION DRAWINGS

Located in Sec 08 T7N R2E
Weber County, Utah

SHEET INDEX:



BOWLDEN KREFS

CAUTION

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

NO.	BY	DATE	REVISIONS

HORIZON NEIGHBORHOOD PRUD

CIVIL TITLE SHEET

PREPARED FOR: SUMMIT POWDER MOUNTAIN

DATE SUBMITTED: 09-12-2016

NV5
5217 SOUTH STATE STREET, SUITE 200
MURRAY, UT 84107
801.743.3500 TEL 801.743.3500 FAX
WWW.NV5.COM

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
9/12/16
STATE OF UTAH

SHEET NUMBER
1.00

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

JOB NUMBER
SLB0793

CALL BEFORE YOU DIG!
IT'S THE LAW
BLUE STAKES 1 800 662 4111

GENERAL NOTES

1. 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.
2. 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.
3. TRAFFIC CONTROL, STRIPING & SIGNAGE TO CONFORM TO CURRENT UDOT TRANSPORTATION ENGINEER'S MANUAL AND MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
4. ANY AREA OUTSIDE THE LIMIT OF WORK THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO OWNER.
5. CONSULT ALL OF THE DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
6. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT TO A CLEAN, SMOOTH EDGE.
7. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE MOST RECENT, ADOPTED EDITION OF ADA ACCESSIBILITY GUIDELINES.
8. 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.
9. CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND NOTIFYING ENGINEER OR INSPECTING AUTHORITY 48 HOURS IN ADVANCE OF COVERING UP ANY PHASE OF CONSTRUCTION REQUIRING OBSERVATION.
10. 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.
11. 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.
12. CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS BEFORE BIDDING AND BRING UP ANY QUESTIONS BEFOREHAND.
13. SITE GRADING SHALL BE PERFORMED IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS AND THE RECOMMENDATIONS SET FORTH BY THE GEOTECHNICAL ENGINEER.
14. CATCH SLOPES SHALL BE GRADED AS SPECIFIED ON GRADING PLANS.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FLAGGING, CAUTION SIGNS, LIGHTS, BARRICADES, FLAGMEN, AND ALL OTHER DEVICES NECESSARY FOR PUBLIC SAFETY.
16. 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.
17. 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.
18. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ALL WATER, POWER, SANITARY FACILITIES AND TELEPHONE SERVICES AS REQUIRED FOR THE CONTRACTOR'S USE DURING CONSTRUCTION.
19. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY FIELD CHANGES MADE WITHOUT PRIOR WRITTEN AUTHORIZATION FROM THE OWNER, ENGINEER, AND/OR GOVERNING AGENCIES.
20. 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.
21. 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 REQUIREMENT 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.

27. 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.
28. 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.
29. 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.
30. ALL EXISTING GATES AND FENCES TO REMAIN UNLESS OTHERWISE NOTED ON PLANS. PROTECT ALL GATES AND FENCES FROM DAMAGE.

UTILITY NOTES

1. 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.
2. 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.
3. CONTRACTOR SHALL POT 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.
4. 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.
5. ALL VALVES AND MANHOLE COVERS SHALL BE RAISED OR LOWERED TO MEET FINISHED GRADE.
6. CONTRACTOR SHALL CUT PIPES OFF FLUSH WITH THE INSIDE WALL OF THE BOX OR MANHOLE.
7. CONTRACTOR SHALL GROUT AT CONNECTION OF PIPE TO BOX WITH NON-SHRINKING GROUT, INCLUDING PIPE VOIDS LEFT BY CUTTING PROCESS, TO A SMOOTH FINISH.
8. CONTRACTOR SHALL GROUT WITH NON-SHRINK GROUT BETWEEN GRADE RINGS AND BETWEEN BOTTOM OF INLET LID FRAME AND TOP OF CONCRETE BOX.
9. 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.
10. CONTRACTOR SHALL CLEAN ASPHALT, TAR OR OTHER ADHESIVES OFF OF ALL MANHOLE LIDS AND INLET GRATES TO ALLOW ACCESS.
11. 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 BACKFILLED 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.
12. 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.
13. MAINTAIN A MINIMUM 18" VERTICAL SEPARATION DISTANCE BETWEEN ALL UTILITY CROSSINGS.
14. CONTRACTOR SHALL START INSTALLATION AT LOW POINT OF ALL NEW GRAVITY UTILITY LINES.
15. ALL BOLTED FITTINGS MUST BE GREASED AND WRAPPED.
16. UNLESS SPECIFICALLY NOTED OTHERWISE, MAINTAIN AT LEAST 2 FEET OF COVER OVER ALL STORM DRAIN LINES AT ALL TIMES (INCLUDING DURING CONSTRUCTION).
17. ALL WATER LINES SHALL BE INSTALLED A MINIMUM OF 60" OF COVER TO TOP OF PIPE BELOW FINISHED GRADE.
18. ALL SEWER LINES AND SEWER SERVICES SHALL HAVE A MINIMUM SEPARATION OF 10 FEET, PIPE EDGE TO PIPE EDGE, FROM THE WATER LINES.
19. CONTRACTOR SHALL INSTALL THRUST BLOCKING AT ALL WATERLINE ANGLE POINTS AND TEES.
20. ALL UNDERGROUND UTILITIES SHALL BE IN PLACE PRIOR TO INSTALLATION OF CURB, GUTTER, SIDEWALK AND STREET PAVING.
21. CONTRACTOR SHALL INSTALL MAGNETIC LOCATING TAPE CONTINUOUSLY OVER ALL NONMETALLIC PIPE.
22. 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.
23. 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.

LEGEND:

SYMBOL / LINETYPE	DESCRIPTION	DETAIL
8"W	8"ø C-900 PVC WATER PIPE (UNLESS NOTED OTHERWISE)	APWA PLAN NO. 381,382
6"W	6"ø DR7.3 HDPE PIPE (UNLESS NOTED OTHERWISE)	
W	PROPOSED WATER METER	APWA PLAN NO. 521
	1 1/2" WATER LATERAL	APWA PLAN NO. 552 AND DETAIL D, SHEET 6.00
8"SS HDPE	8"ø SDR35 PVC SEWER PIPE	APWA PLAN NO. 381,382
(1)SS-P	1.5"ø PRESSURE SEWER PIPE- DR-11 IPS	APWA PLAN NO. 381,382
SS	4" SANITARY SEWER LATERAL	APWA PLAN NO. 431 AND DETAIL D, SHEET 6.00
G	PROPOSED GAS MAIN	
G	PROPOSED GAS METER	
	PROPOSED GAS LATERAL	
P	PROPOSED ELECTRICAL CONDUIT	
	PROPOSED FIRE HYDRANT ASSEMBLY/STAND PIPE	
	PROPOSED SEWER CLEANOUT	APWA PLAN NO. 511
S	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	
6"W	PROPOSED 6" WATER PIPE	
SS	PROPOSED SEWER PIPE	
	PROPOSED EDGE OF TRAVEL	
COM	PROPOSED COMMUNICATION LINE	
10"W	EXISTING 10" WATER PIPE	
P	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 REVEGITATION**

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

CALL BEFORE YOU DIG! IT'S THE LAW BLUE STAKES 1 800 662 4111

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. All changes to the plans must be in writing and must be approved by the preparer of these plans.

HORIZON NEIGHBORHOOD PRUD
GENERAL NOTES, KEY NOTES, AND LEGEND

PREPARED FOR: SUMMIT POWDER MOUNTAIN

DATE SUBMITTED: 09-12-2016

NV5
MURRAY, UT 84107
WWW.NV5.COM
5217 SOUTH STATE STREET, SUITE 200
801.743.8500 TEL 801.743.0000 FAX

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
09/12/16
STATE OF UTAH

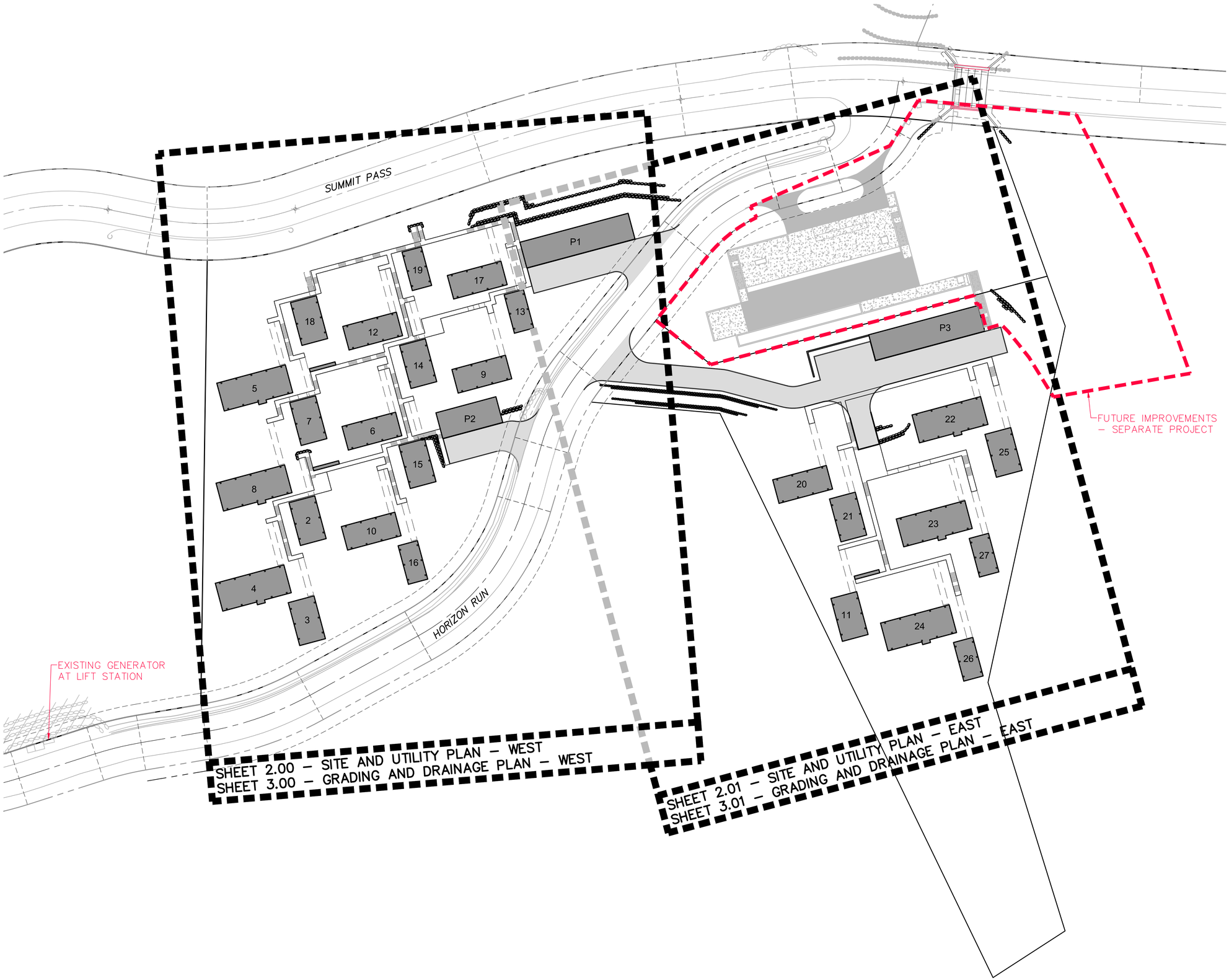
SHEET NUMBER
1.01

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

JOB NUMBER
SLB0793

BOWLDEN XREFS:

DATE: 10/3/16 TIME: 2:47:28 PM DRAWING NAME: 102 - OVERALL KEY MAP.DWG
SERVER: NONE PAGE SETUP: PDF_c3D-24x36 LAYOUT: Layout1
PATH: N:\SLB0793\CADD\HORIZON VILLAGE\ZIP DESIGNER: ### PROJ. MGR: ###



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

CALL BEFORE YOU DIG! IT'S THE LAW BLUE STAKES 1 800 662 4111

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. All changes to the plans must be in writing and must be approved by the preparer of these plans.

HORIZON NEIGHBORHOOD PRUD

OVERALL KEY MAP

PREPARED FOR: SUMMIT POWDER MOUNTAIN

DATE SUBMITTED: 09-12-2016

NV5
5217 SOUTH STATE STREET, SUITE 200
MURRAY, UT 84107
801.743.3500 TEL 801.743.0300 FAX
WWW.NV5.COM

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
9/12/16
STATE OF UTAH

SHEET NUMBER
1.02

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

JOB NUMBER
SLB0793

BOWLDEN KREFS:

DATE: 10/10/16 TIME: 11:25:39 AM DRAWING NAME: = SITE_AND_UTILITY_PLAN = WESTDWG
SERVER: NONE PAGE SETUP: ----- LAYOUT: Layout1
PATH: N:\SLB0793\CADD\HORIZON VILLAGE\.IP DESIGNER: ### PROJ. MGR: ###

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"ø GATE VALVE WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
12. INSTALL 8"ø 11.25° BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
13. INSTALL 8"ø 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"ø 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"ø 11.25° BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
18. INSTALL 6"ø 22.5° BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
19. INSTALL 6"ø 45° BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
20. INSTALL 6"ø 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'ø 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"ø 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'ø SANITARY SEWER MANHOLE PER APWA STANDARD PLAN NO. 411.
33. INSTALL 4'ø 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"ø 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.

(37) AT EXISTING LIFT STATION GENERATOR SEE SHEET 1.02

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. All changes to the plans must be in writing and must be approved by the preparer of these plans.

HORIZON NEIGHBORHOOD PRUD

SITE AND UTILITY PLAN - WEST

DATE SUBMITTED: 09-12-2016

PREPARED FOR: SUMMIT POWDER MOUNTAIN

NV5
MURRAY, UT 84107
WWW.NV5.COM
5217 SOUTH STATE STREET, SUITE 200
801.743.1800 TEL 801.743.0300 FAX

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

CALL BEFORE YOU DIG!
BLUE STAKES 1 800 662 4111

BACKMAN XREF'S:

DATE: 10/3/16 TIME: 2:50:13 PM DRAWING NAME: ...SITE_AND_UTILITY_PLAN - EAST.DWG
SERVER: NONE PAGE SETUP: PDF_C3D-24x36 LAYOUT: Layout1
PATH: N:\SLB0793\CADD\HORIZON VILLAGE\...\P DESIGNER: #### PROJ. MGR: ####

FUTURE IMPROVEMENTS – SEPARATE PROJECT

P3

22 2500 SF MAIN FF= 8743.00
25 1500 SF MAIN FF= 8735.00
23 2500 SF MAIN FF= 8726.00
27 1000 SF MAIN FF= 8717.00
26 1000 SF MAIN FF= 8700.00
24 2500 SF MAIN FF= 8709.00
21 1500 SF MAIN FF= 8736.00
20 1500+ SF MAIN FF= 8745.00
11 1500 SF MAIN FF= 8725.00

INV=8714.25
INV=8713.13
INV=8712.86
INV=8704.74
INV=8703.83
INV=8703.94
INV=8703.78
INV=8701.76
INV=8690.57
INV=8690.41
INV=8691.37
INV=8714.62
INV=8717.72
INV IN=8710.90
INV IN=8739.19
INV IN=8684.79
INV IN=8690.37
INV IN=8701.76

HORIZON RUN
PUE
R.O.W.

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"ø GATE VALVE WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
12. INSTALL 8"ø 11.25° BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
13. INSTALL 8"ø 22.5° BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.

KEY NOTES (CONT)

14. CONNECT TO EXISTING 8" WATER STUB WITH 8"x6" REDUCER WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
15. INSTALL 8"ø 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"ø 11.25° BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
18. INSTALL 6"ø 22.5° BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
19. INSTALL 6"ø 45° BEND WITH THRUST BLOCKING PER APWA STANDARD PLAN NO. 561.
20. INSTALL 6"ø 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'ø 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"ø SEWER LINE.

KEY NOTES (CONT)

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'ø SANITARY SEWER MANHOLE PER APWA STANDARD PLAN NO. 411.
33. INSTALL 4'ø 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.

KEY NOTES (CONT)

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"ø 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.
49. INSTALL D50=6" RIP RAP DRAINAGE PAD 20' LONG x 10' WIDE.
50. INSTALL 4"ø PVC DRAINAGE PIPE.

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

CALL BEFORE YOU DIG! 811 IT'S THE LAW BLUE STAKES 1 800 662 4111

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. All changes to the plans must be in writing and must be approved by the preparer of these plans.

HORIZON NEIGHBORHOOD PRUD
SITE AND UTILITY PLAN - EAST

PREPARED FOR: SUMMIT POWDER MOUNTAIN

DATE SUBMITTED: 09-12-2016

NV5
MURRAY, UT 84107
WWW.NV5.COM
5217 SOUTH STATE STREET, SUITE 200
801.743.5000 TEL 801.743.5001 FAX

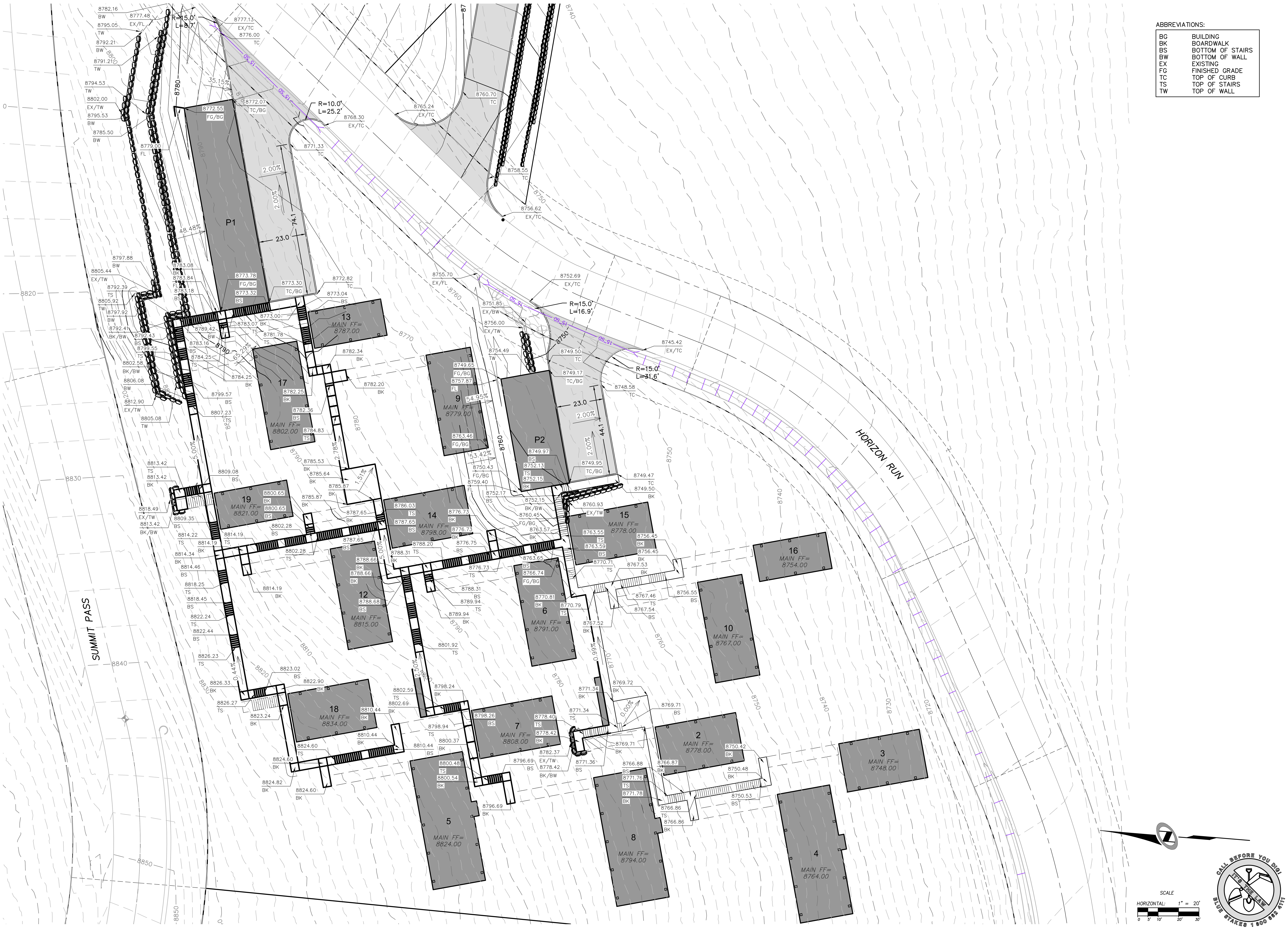
REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
09/12/16
STATE OF UTAH

SHEET NUMBER
2.01

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

JOB NUMBER
SLB0793

BOWLDEN XREFS:



ABBREVIATIONS:

BG	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

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

CALL BEFORE YOU DIG! IT'S THE LAW
BLUE STAKES 1 800 662 4111

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. All changes to the plans must be in writing and must be approved by the preparer of these plans.

HORIZON NEIGHBORHOOD PRUD

GRADING AND DRAINAGE PLAN - WEST

PREPARED FOR: SUMMIT POWDER MOUNTAIN

DATE SUBMITTED: 09-12-2016

NV5
5217 SOUTH STATE STREET, SUITE 200
MURRAY, UT 84107
801.743.1300 TEL 801.743.0300 FAX
WWW.NV5.COM

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

SHEET NUMBER
3.00

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

JOB NUMBER
SLB0793

DATE: 10/3/16 TIME: 2:56:12 PM DRAWING NAME: GRADING AND DRAINAGE PLAN - EAST.DW
SERVER: NONE PAGE SETUP: PDF_C3D_24x36 LAYOUT: Layout1
PATH: N:\SLB0793\CADD\HORIZON VILLAGE.DP DESIGNER: #### PROJ. MGR. ####

FUTURE IMPROVEMENTS – SEPARATE PROJECT

ABBREVIATIONS:

BG	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

P3

22 MAIN FF= 8743.00

25 MAIN FF= 8735.00

27 MAIN FF= 8717.00

23 MAIN FF= 8726.00

26 MAIN FF= 8700.00

24 MAIN FF= 8709.00

21 MAIN FF= 8736.00

20 MAIN FF= 8745.00

11 MAIN FF= 8725.00

HORIZON RUN

R=20.0' L=31.4'

R=20.0' L=31.4'

R=19.5' L=42.0'

R=19.5' L=20.5'

SCALE
HORIZONTAL: 1" = 20'
0 5' 10' 20' 30'

CALL BEFORE YOU DIG! 811 or 1-800-662-4111 BLUE STAKES 1-800-662-4111

BOWLDEN XREFS:

NO.	BY	DATE	REVISIONS

CAUTION

HORIZON NEIGHBORHOOD PRUD

GRADING AND DRAINAGE PLAN - EAST

PREPARED FOR: SUMMIT POWDER MOUNTAIN

DATE SUBMITTED: 09-12-2016

NV5
MURRAY, UT 84107
WWW.NV5.COM
5217 SOUTH STATE STREET, SUITE 200
801.743.1500 TEL 801.743.0000 FAX

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
9/12/16
STATE OF UTAH

SHEET NUMBER
3.01

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

JOB NUMBER
SLB0793

DATE: 10/3/16 TIME: 2:55:45 PM DRAWING NAME: EROSION CONTROL PLAN - OVERALL.DWG
SERVER: NONE PAGE SETUP: PDF-C3D-24x36 LAYOUT: Layout1
PATH: N:\SLB0793\CADD\HORIZON VILLAGE.DP DESIGNER: #### PROJ. MGR: ####

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'

CALL BEFORE YOU DIG!
UTAH LAW
BLUE STAKES 1 800 662 4111

NO.	BY	DATE	REVISIONS

HORIZON NEIGHBORHOOD PRUD

EROSION CONTROL PLAN - OVERALL

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

NV5
MURRAY, UT 84107
WWW.NV5.COM
6257 SOUTH STATE STREET, SUITE 200
801.743.8300 TEL 801.743.8300 FAX

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
9/12/16
STATE OF UTAH

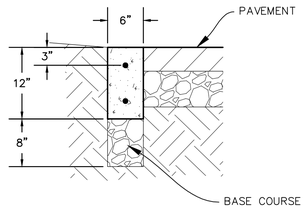
SHEET NUMBER
4.00

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

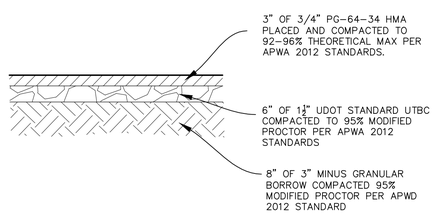
JOB NUMBER
SLB0793

BOWLDEN
XREFS:

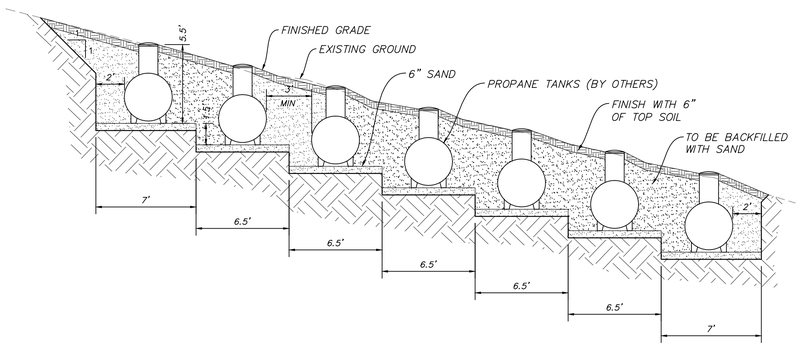
DATE: 10/3/16 TIME: 2:56:27 PM DRAWING NAME: 600 - DETAILS.DWG
SERVER: NONE PAGE SETUP: PDF-c30-24x36 LAYOUT: Layout1
PATH: N:\SLB0793\CADD\HORIZON VILLAGE\JP DESIGNER: ### PROJ. MGR: ###



A — *RIBBON CURB*
(MODIFIED TYPE P CURB)
NTS

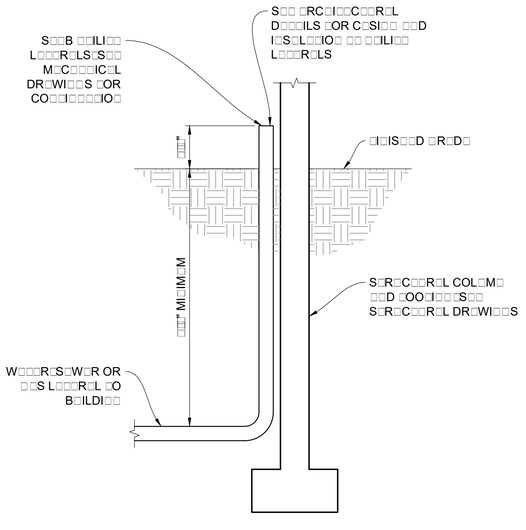


B — *PARKING ASPHALT SECTION*
NTS



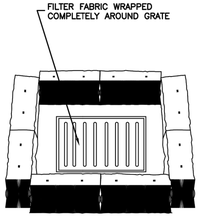
SECTION A–A

C — *PROPANE TANK PIT*
VAR *NTS*

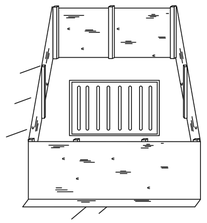


D — *SERVICE LATERAL DETAIL*
VAR *NTS*

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)

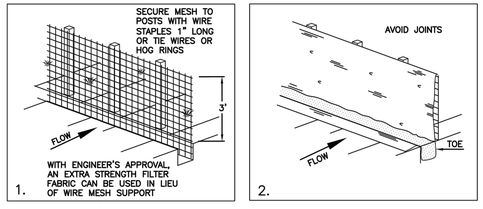


SILT FENCE
(PLAN No. 122)

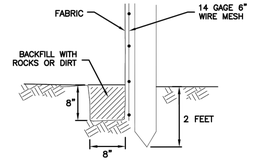
Inlet protection - fence or straw bale

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

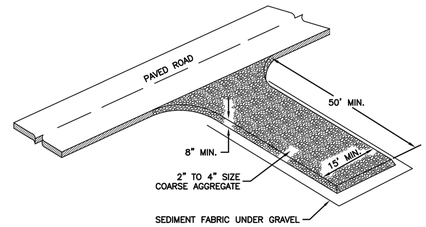


TOE DETAIL

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.	BY	DATE	REVISIONS

HORIZON NEIGHBORHOOD PRUD

DETAILS

PREPARED FOR: SUMMIT POWDER MOUNTAIN

DATE SUBMITTED: 09-12-2016

NV5
MURRAY, UT 84107
WWW.NV5.COM
6257 SOUTH 571ATE STREET, SUITE 200
801.743.1500 TEL 801.743.0300 FAX

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
9/12/16
STATE OF UTAH

SHEET NUMBER
6.00

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

JOB NUMBER
SLB0793

BOWLDEN
XREFS:

ITEM NO.	DESCRIPTION	QTY.
1	FPS 2HP 3Ph 1.5" Suc./Dis. Pump	2
2	Control Panel Enclosure	1
3	Flint & Walling Air-E-Tainer Well System Tank	1
4	2" Flomatic Wafer Check Valve	2
5	2" Keystone Full Lug Butterfly Valve	5
6	Pressure Transducer and Bleed Block	1
7	Pressure Gauge	2
8	2" Flange	16
9	1.5" Flange	4
10	2" X 1.5" Concentric Reducer	4
11	2" X 1.25" Concentric Reducer	1
12	Pump Skid	1

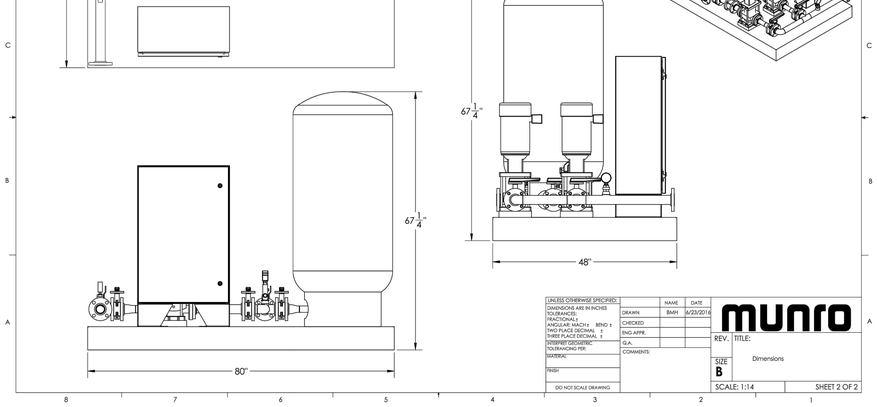
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL: FINISH: DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	BMH	6/23/2016
CHECKED		
ENG APPR.		
Q.A.		
COMMENTS:		

munro

REV.: TITLE: Component List

SIZE B | SCALE: 1:14 | SHEET 1 OF 2



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ± INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL: FINISH: DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	BMH	6/23/2016
CHECKED		
ENG APPR.		
Q.A.		
COMMENTS:		

munro

REV.: TITLE: Dimensions

SIZE B | SCALE: 1:14 | SHEET 2 OF 2

Pump Data Sheet - Franklin Electric

Company: NV5
Name:
Date: 6/21/2016

Pump:
Size: 5VR 2-8 stage
Type: Multi-Stage — Speed: 3450 rpm
Synch Speed: 3600 rpm — Line: 5VR-3
Curve: — Impeller:
Specific Speeds: — Ns: ---, Nss: ---
Dimensions: — Suction: ---, Discharge: ---

Pump Limits:
Temperature: --- — Power: ---
Pressure: --- — Eye Area: ---
Sphere Size: ---

Search Criteria:
Flow: 30 US gpm — Head: 85 ft

Fluid:
Water — Temperature: 60 °F
Density: 62.37 lb/ft³ — Vapor Pressure: 0.2563 psi a
Viscosity: 1.105 cP — Atm Pressure: 14.7 psi a
NPSHa: ---

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

---- Duty Point ----

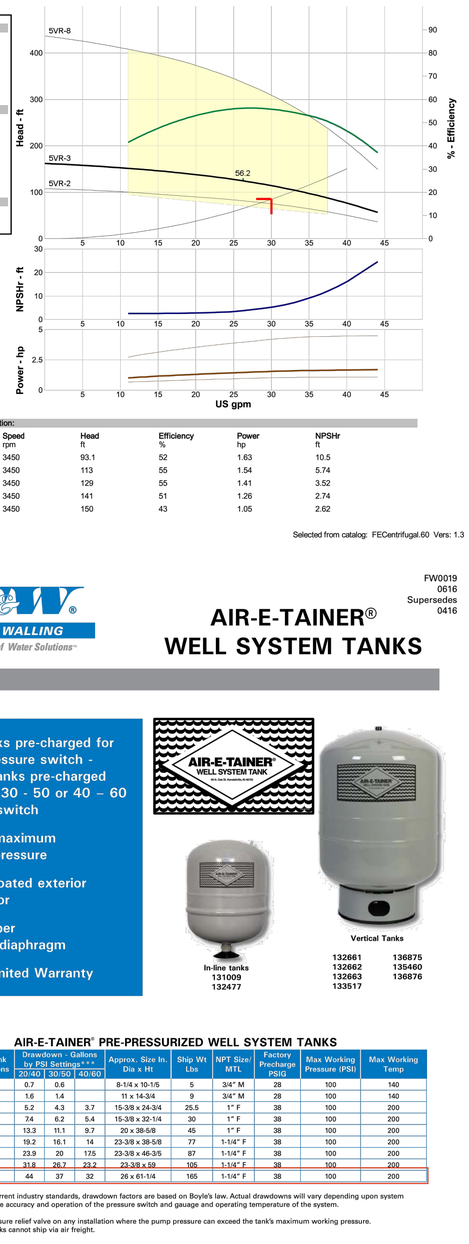
Flow:	33.2 US gpm
Head:	104 ft
Eff:	54%
Power:	1.6 hp
NPSHr:	7.44 ft

---- Design Curve ----

Shutoff Head:	162 ft
Shutoff dP:	70.2 psi
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



Performance Evaluation:

Flow US gpm	Speed rpm	Head ft	Efficiency %	Power hp	NPSHr ft
36	3450	93.1	52	1.63	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: FECentrifugal.60 Vers: 1.3

FW0019
0616
Supersedes
0416

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
131009
132477

Vertical Tanks

132661	136875
132662	135460
132663	136876
133517	

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

Part No.	Total Tank Vol. Gallons	Drawdown - Gallons by PSI Settings*** 20/40	30/50	40/60	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	0.6		8-1/4 x 10-1/5	5	3/4" M	28	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	3.7	15-3/8 x 24-3/4	25.5	1" F	38	100	200
132662	20	7.4	6.2	5.4	15-3/8 x 32-1/4	30	1" F	38	100	200
132663	36	13.3	11.1	9.7	20 x 38-5/8	45	1" F	38	100	200
133517	52	19.2	16.1	14	23-3/8 x 38-5/8	77	1-1/4" F	38	100	200
136875	65	23.9	20	17.5	23-3/8 x 46-3/5	87	1-1/4" F	38	100	200
135460	86	31.8	26.7	23.2	23-3/8 x 59	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: Precharged tanks cannot ship via air freight.

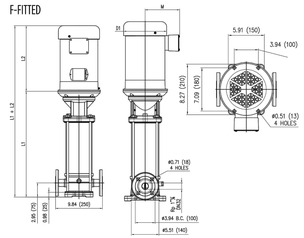
NOTE: Pre-charged tanks cannot ship via air freight.

MULTI-STAGE PUMPS
VERTICAL VR SERIES

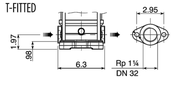
FPS

DIMENSIONS — 5VR PUMP END AND MOTOR

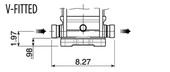
F-FITTED



T-FITTED



V-FITTED



Pump End Dimensions (in)			
Stages	HP	L1 "F"	Model No.
2	1	13.49	5VR2-60 N
3	1.5	14.44	5VR3-60 N
4	2	14.99	5VR4-60 N
5	3	15.93	5VR5-60 N
6	3	17.29	5VR6-60 N
7	5	18.25	5VR7-60 N
8	5	19.19	5VR8-60 N

Pump End Dimensions (in)			
Stages	HP	L1 "F"	Model No.
9	5	20.14	5VR9-60 N
10	5	21.08	5VR10-60 N
11	7.5	21.54	5VR11-60 N
12	7.5	22.48	5VR12-60 N
13	7.5	23.43	5VR13-60 N
14	7.5	24.37	5VR14-60 N
15	7.5	25.31	5VR15-60 N

F-Fitted*: Round flanges on body type PN25—pump is supplied without joints, bolts, and counter flanges.

T-Fitted: Oval flanges on body type PN16—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 ODP Volts	L2	M	DI	Premium Efficiency ODP Volt	L2	M	DI	Phase	Standard Efficiency TEFC Volts	L2	M	DI	Standard Efficiency TEFC Volt	L2	M	DI
3	1	56C		11.22	5.06	6.19					3		11.35	5.39	6.39		11.35	5.39	6.39
	1.5	56C		12.72	5.06	6.2	N/A	N/A	N/A	N/A			11.97	5.39	6.39		11.97	5.39	6.39
	2	56C	208-230/460	13.22	5.06	6.2						208-230/460	12.85	5.39	6.39	575	12.85	5.39	6.39
	3	56C		13.34	5.62	7.16							13.23	5.74	7.19		13.23	5.74	7.19
	5	182/4TC		16.55	5.61	8.02	208-230/460	13.62	6.75	8.5			16.55	6.87	8.5	N/A	N/A	N/A	N/A
	7.5	182/4TC		16.55	6.87	8.6	208-230/460	15	6.75	8.5			18.05	6.87	8.5				

Motor Dimensions (in)																
Phase	HP	Frame	Premium Efficiency TEFC Volt	L2	M	DI	Premium Efficiency TEFC Volts	L2	M	DI	Phase	Standard Efficiency ODP Volts	L2	M	DI	Standard Efficiency TEFC Volt	L2	M	DI
3	1	56C									1	115/230	12.72	5.06	6.39		12.75	5.55	7.19
	1.5	56C	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			12.73	5.06	6.2	115/230	13.25	5.74	7.19
	2	56C											15.24	5.61	7.19		14.12	6.62	7.19
	3	56C										230	12.94	5.73	6.62		14.12	5.79	7.19
	5	182/4TC	575	16.55	6.87	8.5	208-230/460	16.55	6.87	8.5						230	18.05	6.87	8.6
	7.5	182/4TC	575	18.05	6.87	8.6	208-230/460	18.05	6.87	8.6		N/A	N/A	N/A	N/A				
																N/A	N/A	N/A	N/A

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

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

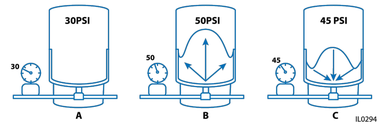
STEEL RETAINING RING

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.

NO.	BY	DATE	REVISIONS

CALCULATION

HORIZON NEIGHBORHOOD PRUD

BOOSTER PUMP DETAILS

PREPARED FOR: SUMMIT POWDER MOUNTAIN

DATE SUBMITTED: 09-12-2016

NV5
5217 SOUTH STATE STREET, SUITE 200
801.743.3300 TEL 801.743.3305 FAX
MURRAY, UT 84107
WWW.NV5.COM

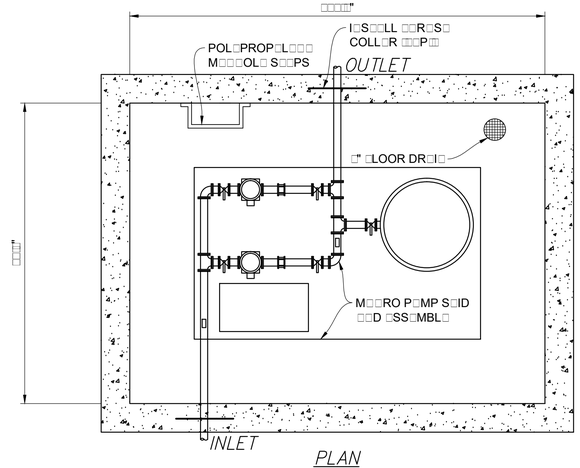
REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
9/12/16
STATE OF UTAH

SHEET NUMBER
6.01

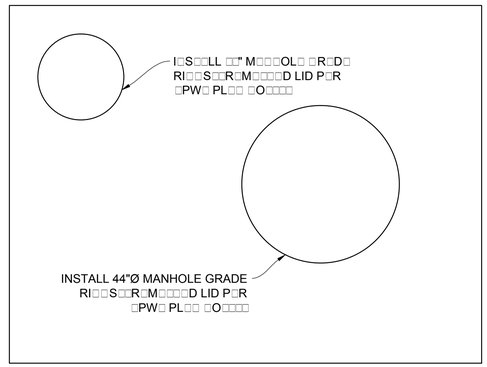
SCALE
VERTICAL: 1"= N/A
HORIZONTAL: 1"= N/A

JOB NUMBER
SLB0793

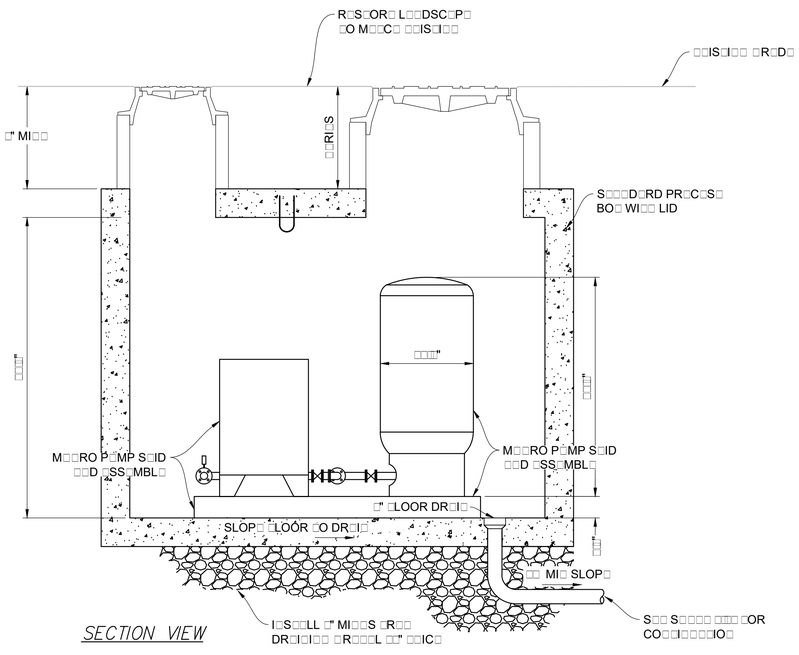
BOWLDEN XREF'S:



PLAN



BOX LID



SECTION VIEW

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. All changes to the plans must be in writing and must be approved by the preparer of these plans.

HORIZON NEIGHBORHOOD PRUD

BOOSTER PUMP DETAILS

PREPARED FOR: SUMMIT POWDER MOUNTAIN

DATE SUBMITTED: 09-12-2016

NV5
MURRAY, UT 84107
WWW.NV5.COM
5217 SOUTH STATE STREET, SUITE 200
801.743.1500 TEL 801.743.0300 FAX

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
9/12/16
STATE OF UTAH

SHEET NUMBER
6.02

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

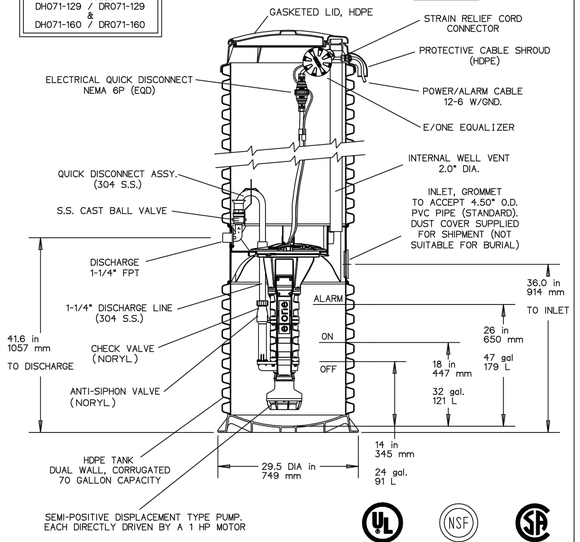
JOB NUMBER
SLB0793

CALL BEFORE YOU DIG!
IT'S THE LAW
BLUE STAKES 1 800 662 4111

BOWLDEN
XREFS:

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

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



CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTION FOR DETAILS

NOTE: DIMENSIONS ARE FOR REF ONLY

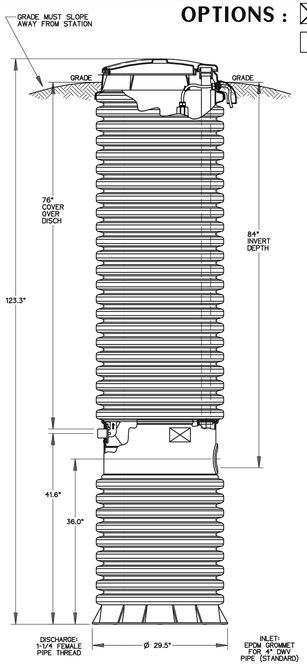
AD	CH	10/20/10	D	
DR BY	CHK'D	DATE	ISSUE	SCALE

SEWER SYSTEMS

MODEL DH071 / DR071 DETAIL SHEET

NA0050P02

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



CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REF ONLY

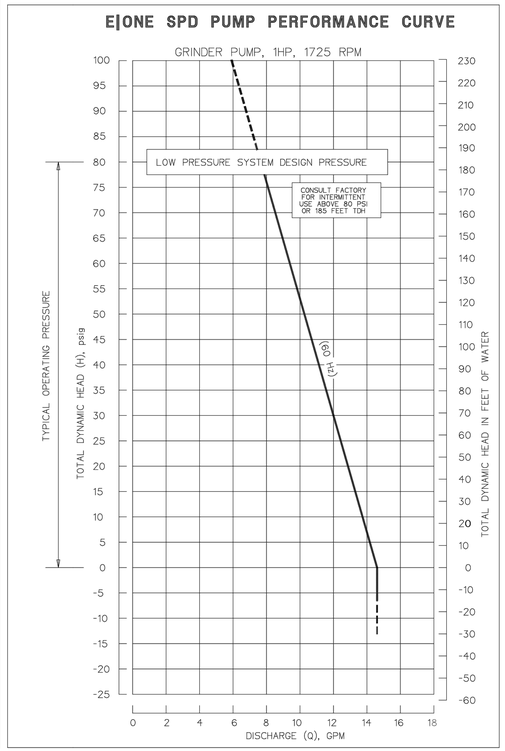
AD	CAH	07/13/07	B	1/16
DR BY	CHK'D	DATE	ISSUE	SCALE

SEWER SYSTEMS

MODEL DH071-124 / DR071-124

NA0050P07

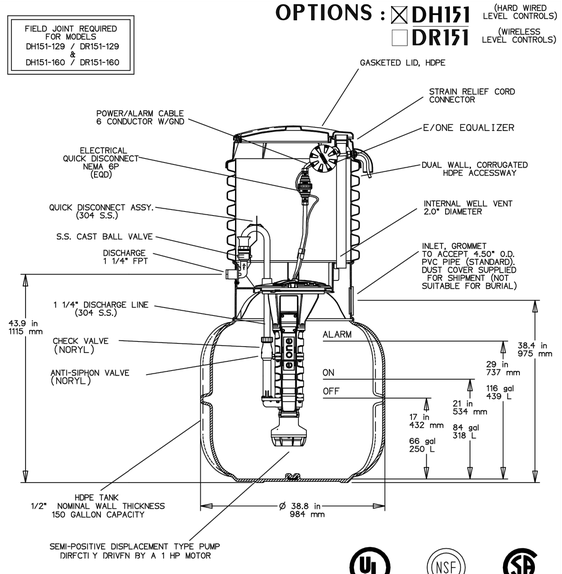
E/ONE SPD PUMP PERFORMANCE CURVE



ESD 08-0022 REV. 2, 6/08

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

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



CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

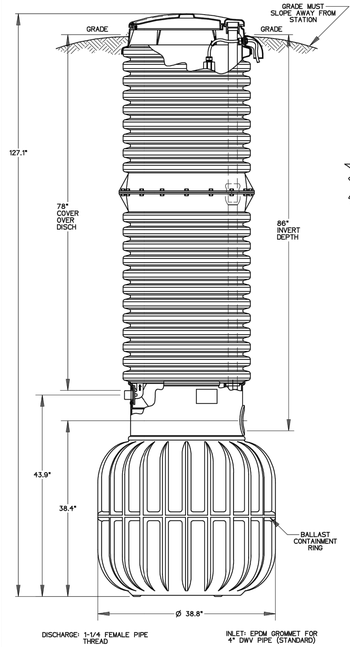
AD	CH	10/20/10	D	
DR BY	CHK'D	DATE	ISSUE	SCALE

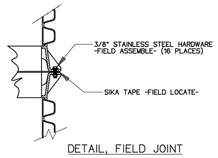
SEWER SYSTEMS

MODEL DH151 / DR151 DETAIL SHEET

NA0051P02

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





DETAIL, FIELD JOINT

SEE INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS

CONCRETE BALLAST MAY BE REQUIRED SEE INSTALLATION INSTRUCTIONS FOR DETAILS

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY

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

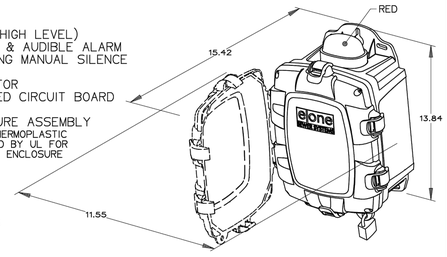
SEWER SYSTEMS

MODEL DH151-129 / DR151-129

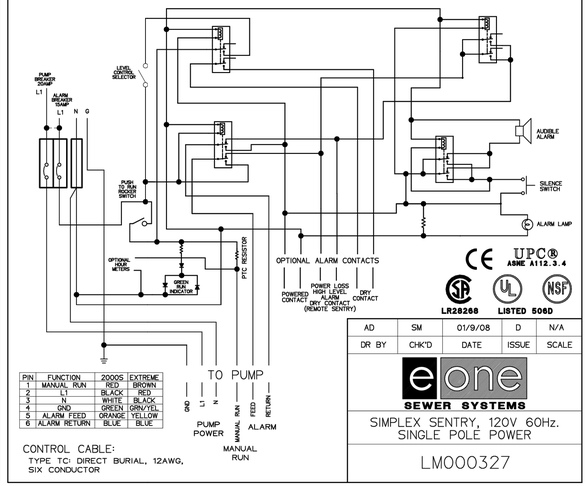
NA0051P07

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



OPTIONS:
☐ ALARM CONTACTS
☐ HOUR METER



PIN	FUNCTION	2000S	EXTREME
1	MANUAL RUN	RED	BROWN
2	L1	BLACK	RED
3	N	WHITE	BLACK
4	GND	GREEN	GRN/YEL
5	ALARM FEED	ORANGE	YELLOW
6	ALARM RETURN	BLUE	BLUE

CONTROL CABLE:
TYPE TC: DIRECT BURIAL, 12AWG, SIX CONDUCTOR

CE UPC® ASME A112.3.4
LR28268 LISTED 506D

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

SEWER SYSTEMS

SIMPLEX SENTRY, 120V 60Hz. SINGLE POLE POWER

LM000327

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. All changes to the plans must be in writing and must be approved by the preparer of these plans.

HORIZON NEIGHBORHOOD PRUD

SEWER EJECTOR DETAILS

PREPARED FOR: SUMMIT POWDER MOUNTAIN

DATE SUBMITTED: 09-12-2016

NV5
6217 SOUTH state STREET, SUITE 200
801.743.1500 TEL 801.743.0000 FAX
MURRAY, UT 84107
WWW.NV5.COM

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
9/12/16
STATE OF UTAH

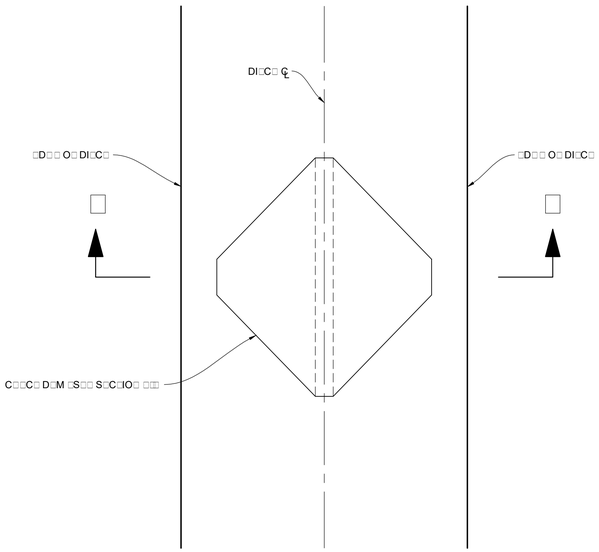
SHEET NUMBER
6.03

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

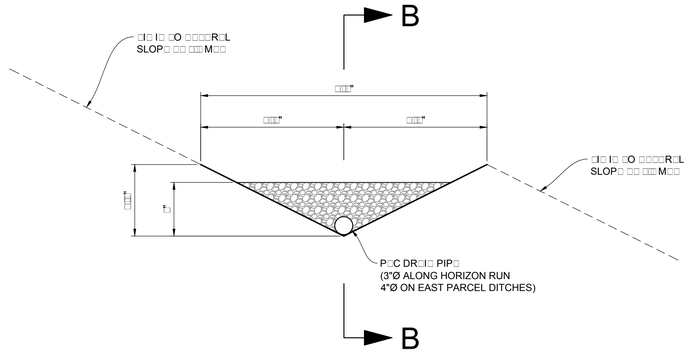
JOB NUMBER
SLB0793

CALL BEFORE YOU DIG! 811 or 1-800-662-4111 BLUE STAKES 1-800-662-4111

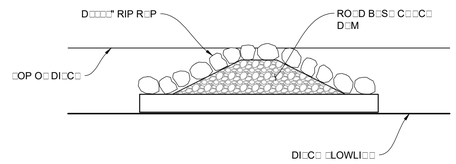
BOWLDEN XREFS:



PL□□ □I□W



S□C□IO□ □□□



S□C□IO□ B□B

A VAR *CHECK DAM DETAIL*
NTS

CALL BEFORE YOU DIG! IT'S THE LAW BLUE STAKES 1 800 662 4111

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. All changes to the plans must be in writing and must be approved by the preparer of these plans.

HORIZON NEIGHBORHOOD PRUD

DETAILS

PREPARED FOR: SUMMIT POWDER MOUNTAIN

DATE SUBMITTED: 09-12-2016

NV5
6217 SOUTH 571ATE STREET, SUITE 200
801.743.1500 TEL 801.743.6300 FAX
MURRAY, UT 84107
WWW.NV5.COM

REGISTERED PROFESSIONAL ENGINEER
No. 7899506
RYAN W. CATHEY
9/12/16
STATE OF UTAH

SHEET NUMBER
6.04

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

JOB NUMBER
SLB0793

BOWLDEN
XREFS:

LEGEND

SYMBOL	LIGHTING
	LAY–IN OR RECESSED FIXTURE, SIZE ON PLANS
	WALL MOUNT FIXTURE, SIZE ON PLANS
	SURFACE MOUNT FIXTURE, SIZE ON PLANS
	PENDANT OR SURFACE MOUNTED LIGHT FIXTURE, SIZE ON PLANS
	SHADED FIXTURE INDICATES EMERGENCY/EGRESS
	RECESSED FLUORESCENT FIXTURE
	WALL MOUNTED HID FIXTURE
	POLE MOUNTED FIXTURE, EXTERIOR
	CEILING MOUNT EXIT LIGHT (W/DIRECTIONAL ARROWS)
	WALL MOUNT EXIT LIGHT (W/ DIRECTIONAL ARROWS)

SYMBOL	DEVICES & POWER
$XX	SWITCH – SPST 3 THREE WAY 4 FOUR WAY WP WEATHER PROOF D DIMMER OS OCCUPANCY SENSOR EXP EXPLOSION PROOF K KEYED SWITCH M MANUAL MOTOR DISCONNECT/STARTER
(((▽)))	COMMUNICATION ANTENNA
	RECEPTACLE – SIMPLEX
GFI WP	RECEPTACLE – DUPLEX GFI GROUND FAULT INTERRUPT WP WEATHERPROOF
	RECEPTACLE – DOUBLE DUPLEX SAME INDICATORS AS SHOWN FOR DUPLEX
J J	J–BOX, J–BOX WALL MOUNTED, 4"x4"x2 1/8" DEEP UNLESS NOTED OTHERWISE
T	THERMOSTAT, SUPPLIED AND INSTALLED BY M.C.
PB	PUSHBUTTON SWITCH
	EMERGENCY PUSHBUTTON
R	RELAY
PC	PHOTOCELL
	SPECIAL PURPOSE CONNECTION, BOX INDICATES FLOOR MOUNTING, WORK AS NOTED
	PANELBOARD, SURFACE MOUNTED
	EMERGENCY WALL LIGHT, SINGLE
	EMERGENCY WALL LIGHT, DOUBLE
PNL	PANELBOARD, ON ONE–LINE
VFD	VARIABLE FREQUENCY DRIVE
X XX	COMBINATION STARTER
X XX	DISCONNECT SWITCH
X XX	CONTACTOR
	CIRCUIT BREAKER
HF	HARMONIC FILTER
10	MOTOR (10 HORSEPOWER NOTED)
	TRANSFORMER, DRY–TYPE
	TRANSFORMER, PAD MOUNTED

SYMBOL	ABBREVIATIONS AND MISCELLANEOUS
ATS	AUTOMACTIC TRANSFER SWITCH
EC	ELECTRICAL CONTRACTOR
MC	MECHANICAL CONTRACTOR
GC	GENERAL CONTRACTOR
C	CONDUIT
GND	GROUND
BOD	BOTTOM OF DEVICE
COD	CENTER OF DEVICE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
BLG	BELOW GRADE
AC	ABOVE COUNTER, 4" ABOVE BACK SPLASH
BC	BELOW COUNTER, 4" BELOW COUNTER TOP
W/ a,b,c	WITH SWITCH DESIGNATION
SF	SURFACE
UG	UNDERGROUND
WP	WEATHER PROOF
1/E5.2	INDICATES DETAIL 1 ON SHEET E5.2
X	SHEET WORK NOTE.
X–X–XXXX	EQUIPMENT TAG NUMBER
XX,XXX	FAULT CURRENT VALUE
XXX	GENERAL ELECTRICAL TAG

GROUNDING SYMBOLS

	GROUND ROD
	GROUND ROD IN GROUND WELL
	GROUND RISER FROM THE GROUND PLATE (REBAR)
	BOLTED AND WELDED GROUND CONNECTIONS, RESPECTIVELY
	GROUND CABLE: • EMBEDDED IN CONCRETE • BURIED IN EARTH • EXPOSED

GENERAL NOTES

A. 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.

B. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED BEFORE BEGINNING ROUGH–IN.

C. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH–IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC.

D. 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.

E. ALL PENETRATIONS OF FLOORS, WALLS AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL.

F. 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.

G. 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 ELECTRICAL CONTRACTOR.

H. 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.

I. 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.

J. 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.

K. THE ELECTRICAL INSTALLATION SHALL COMPLY WITH THE CURRENT VERSION OF THE NEC, LOCAL, AND STATE CODES.

Bowen Collins & Associates, Inc.
CONSULTING ENGINEERS

LICENSED PROFESSIONAL ENGINEER
DOUGLAS MAX STEWART
No. 173312
STATE OF UTAH
07-29-2016

REVISIONS

NO.	DATE	REV. BY	DESCRIPTION

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

SUMMIT AT POWDER MOUNTAIN
HORIZON NEIGHBORHOOD
POWDER MOUNTAIN, UT

REVIEW
CHECKED D. YOUNGSTROM
APPROVED J. BECKMAN

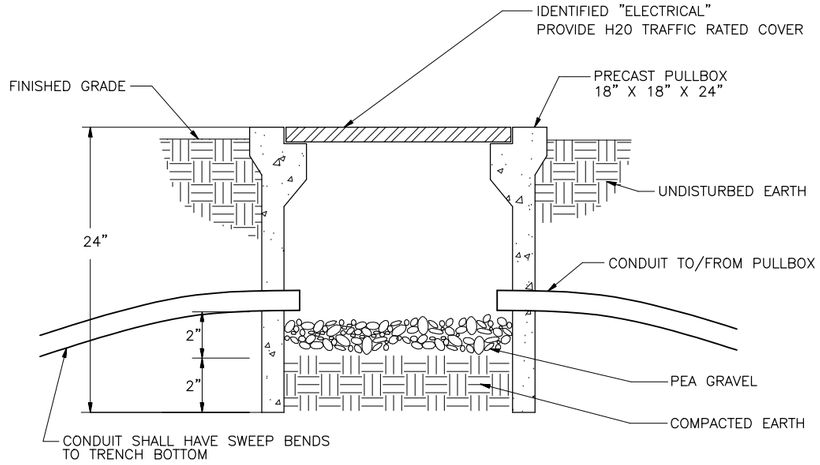
DESIGN D. STEWART
DRAWN D. STEWART

ELECTRICAL
LEGENDS, NOTES AND SCHEDULES

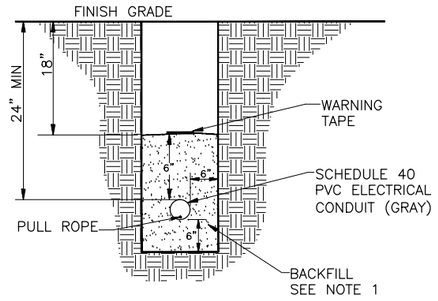
DATE: JULY 2016
PROJECT NUMBER 334–13–01

DRAWING NO.
E–01
SHEET 1 OF 3

P:\Powder Mountain\347–13–01_01 Booster Pumps Horizon Neighborhood\2.0 – Design Phase\2.7 Drawings\Sht\HN_3341301_E–01.dwg Aug01,2016 – 8:33am



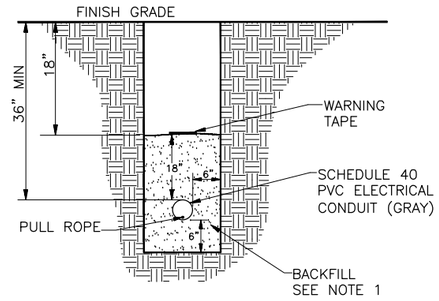
TYPICAL ELECTRICAL PULLBOX DETAIL (E 5030)
NOT TO SCALE



NOTES:

1. BACKFILL MATERIAL SHALL BE TYPE B, OR C COMPACTED TO 95% PER ASTM D 1557.
2. BACKFILL SHALL PASS THROUGH A 3/4" SIEVE.

CONDUIT TRENCH DETAIL (E 5042)
SCALE: NTS



NOTES:

1. BACKFILL MATERIAL SHALL BE TYPE B, OR C COMPACTED TO 95% PER ASTM D 1557.
2. BACKFILL SHALL PASS THROUGH A 3/4" SIEVE.

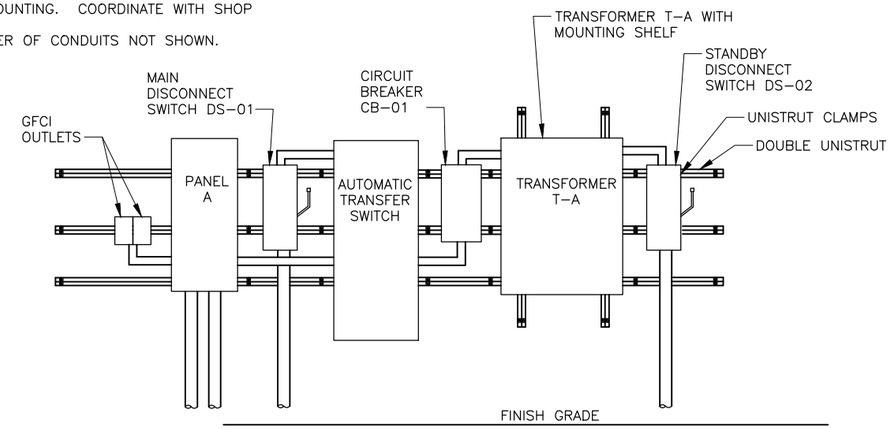
ROCKY MOUNTAIN POWER CONDUIT TRENCH DETAIL (E 5043)
SCALE: NTS

NOT USED (E 5050)
SCALE: NTS

NOT USED (E 5051)
SCALE: NTS

NOTES:

1. UNISTRUT MOUNTED ON CONCRETE WALL OF FIRE CACHE BUILDING.
2. LENGTH OF MOUNTING STRUCTURE REQUIRED BY PANEL WIDTHS. CONTRACTOR SHALL COORDINATE SIZE WITH SHOP DRAWINGS.
3. SPACING OF UNISTRUT SHALL BE DETERMINED BY PANEL MOUNTING. COORDINATE WITH SHOP DRAWINGS.
4. EXACT NUMBER OF CONDUITS NOT SHOWN.



ELECTRICAL EQUIPMENT ELEVATION DETAIL (E 5073)
SCALE: NTS

Bowen Collins & Associates, Inc.
CONSULTING ENGINEERS

LICENSED PROFESSIONAL ENGINEER
DOUGLAS MAX STEWART
No. 173312
STATE OF UTAH
08-07-2016

REVISIONS

NO.	DATE	REV. BY	DESCRIPTION

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

SUMMIT AT POWDER MOUNTAIN
HORIZON NEIGHBORHOOD
POWDER MOUNTAIN, UT

REVIEW
CHECKED D. YOUNGSTROM
APPROVED J. BECKMAN

DESIGN D. STEWART
DESIGN
DRAWN D. STEWART

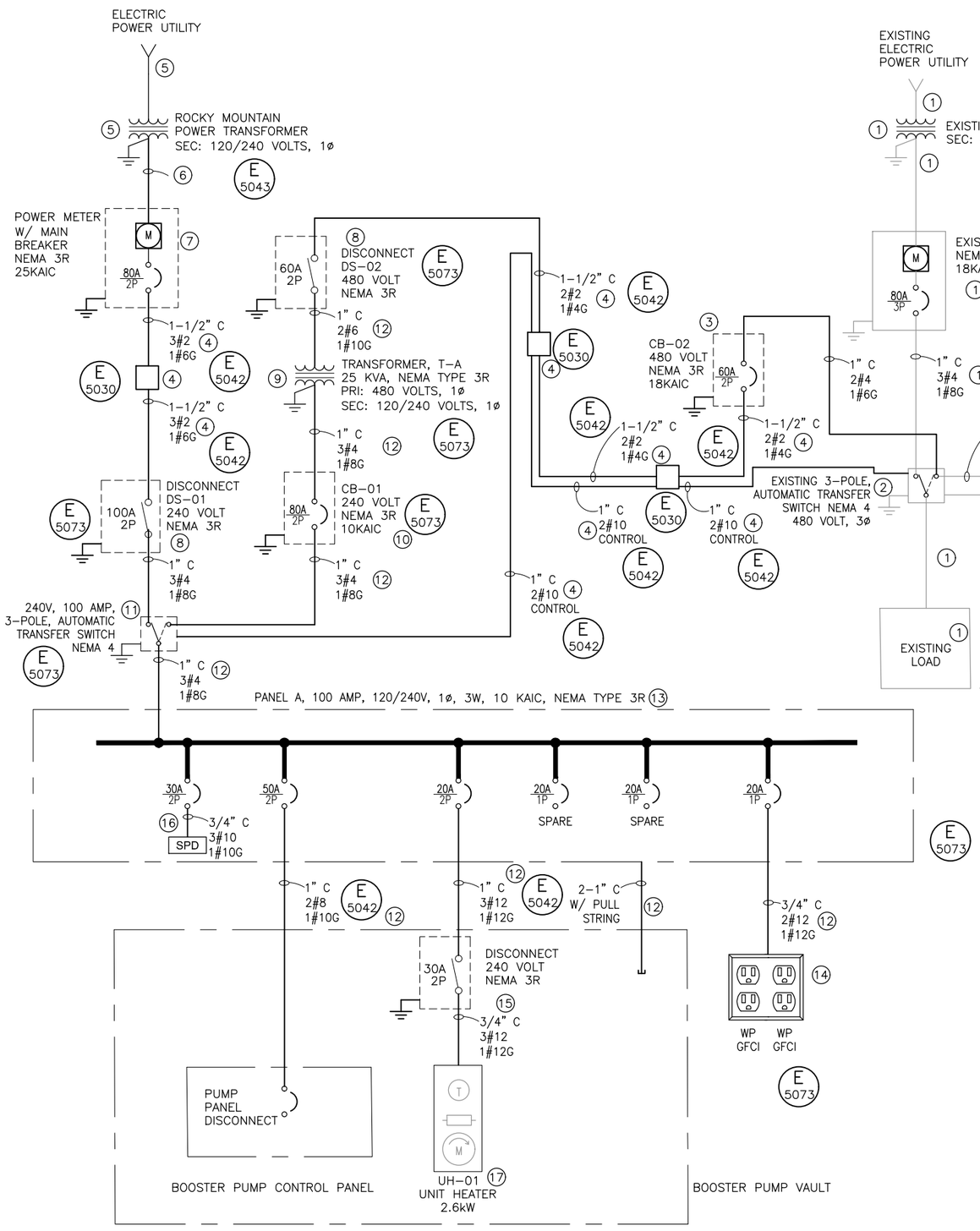
ELECTRICAL

ELECTRICAL DETAILS - 1

PROJECT NUMBER 334-13-01
DATE: JULY 2016

DRAWING NO.
GE-01
SHEET 3 OF 3

P:\Powder Mountain\347-13-01_01 Booster Pumps Horizon Neighborhood\2.0 - Design Phase\2.7 Drawings\Sht\HN_3341301_GE-01.dwg Aug01,2016 - 8:31am



EXISTING LIFT STATION GR2 POWER ONE-LINE DIAGRAM

BOOSTER PUMP STATION POWER ONE-LINE DIAGRAM

GENERAL NOTES:

1. REFER TO CIVIL DRAWING 2.00 FOR EQUIPMENT LOCATION.
2. NEW ELECTRICAL EQUIPMENT SHOWN IN DETAIL E-5073 SHALL BE INSTALLED ON THE SIDE OF THE FIRE CACHE BUILDING.
3. ALL ELECTRICAL ENCLOSURES SHALL BE VANDAL PROOF AND LOCKABLE.
4. PROVIDE AND INSTALL WEATHER PROOF HUBS FOR ALL OUTDOOR CONDUITS.

KEY NOTES: (#)

1. EXISTING ELECTRICAL POWER SERVICE, GENERATOR AND EQUIPMENT AT LIFT STATION GR2.
2. EXISTING AUTOMATIC TRANSFER SWITCH AT LIFT STATION GR2. PROVIDE AND INSTALL SPLICE KIT TO CONNECT GENERATOR POWER TO THE BOOSTER PUMP STATION. PROVIDE AND INSTALL SPLICE KIT TO CONNECT THE GENERATOR START/STOP SIGNAL FROM THE AUTOMATIC TRANSFER SWITCH AT THE BOOSTER PUMP IN PARALLEL WITH EXISTING START/STOP SIGNAL.
3. PROVIDE AND INSTALL CIRCUIT BREAKER ON RACK WITH EXISTING ELECTRICAL EQUIPMENT AT LIFT STATION GR2. CIRCUIT BREAKER SHALL BE LOCKABLE IN THE OFF POSITION,
4. PROVIDE AND INSTALL CONDUIT, CONDUCTORS AND PULL BOXES. PROVIDE AND INSTALL ADDITIONAL PULL BOXES IF NEEDED. REFER TO DRAWING REFERENCED IN GENERAL NOTE #1 FOR LOCATIONS. CONDUCTORS HAVE BEEN SIZED TO PREVENT EXCESSIVE VOLTAGE DROP.
5. ROCKY MOUNTAIN POWER PRIMARY POWER FEED AND TRANSFORMER.
6. DEVELOPER TO PROVIDE AND INSTALL CONDUIT. CONDUCTORS SHALL BE INSTALLED BY ROCKY MOUNTAIN POWER.
7. GROUP METERING PROVIDE AND INSTALL MAIN CIRCUIT BREAKER. POWER METER SHALL BE INSTALLED BY ROCKY MOUNTAIN POWER.
8. PROVIDE AND INSTALL LOCKABLE DISCONNECT SWITCHES.
9. PROVIDE AND INSTALL SINGLE PHASE TRANSFORMER WITH COPPER WINDINGS AND MOUNTING SHELF, WITH BOTTOM OF TRANSFORMER APPROXIMATELY 3.5' ABOVE FINISHED GRADE. PROVIDE TRANSFORMER WITH WEATHER SHIELDS AND RODENT SCREENS. REFER TO SPECIFICATION.
10. PROVIDE AND INSTALL CIRCUIT BREAKER AS SHOWN.
11. PROVIDE AND INSTALL AUTOMATIC TRANSFER SWITCH WITH LOCKABLE ENCLOSURE AND VANDAL PROOF COVERS TO PROTECT CONTROLS. REFER TO SPECIFICATION. L1, L2, AND THE NEUTRAL WILL ALL BE SWITCHED.
12. PROVIDE AND INSTALL CONDUITS AND CONDUCTORS TO ELECTRICAL EQUIPMENT MOUNTED ABOVE GROUND AND IN VAULT. PROVIDE AND INSTALL TWO SPARE CONDUITS FROM PANEL TO VAULT, CAPPED WITH PULL STRINGS AS SHOWN.
13. PROVIDE AND INSTALL PANEL WITH LOCKABLE ENCLOSURE, AND COPPER BUS. REFER TO SPECIFICATION.
14. GFCI, 20 AMP, OUTLETS IN TWO GANG WEATHERPROOF BOX WITH HUBBLE EXTRA-DUTY METALLIC WHILE-IN-USE COVER, P/N WP262E, OR EQUAL.
15. PROVIDE AND INSTALL LOCKABLE DISCONNECT IN VAULT CLOSE TO ELECTRIC UNIT HEATER.
16. PROVIDE AND INSTALL SINGLE PHASE, 120/240 VOLT, SURGE PROTECTIVE DEVICE. RATED 160 KA PER PHASE AND 80 KA PER MODE.
17. CHROMALOX SINGLE PHASE, 240 VOLT, 2.6 KW, 11.4 AMPS, P/N LUH-02-21-34, WITH INTEGRAL THERMOSTAT AND WALL MOUNTING BRACKET FOR WALL IN VAULT.

Bowen Collins & Associates, Inc.
CONSULTING ENGINEERS
PROFESSIONAL ENGINEER
DOUGLAS MAX STEWART
No. 173312
STATE OF UTAH
08-01-2016

REVISIONS

NO.	DATE	REV. BY	DESCRIPTION

SUMMIT AT POWDER MOUNTAIN
HORIZON NEIGHBORHOOD
POWDER MOUNTAIN, UT

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING

REVIEW D. YOUNGSTROM
CHECKED D. YOUNGSTROM
APPROVED J. BECKMAN

DESIGN D. STEWART
DESIGN D. STEWART
DRAWN D. STEWART

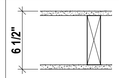
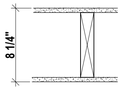
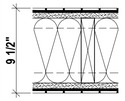
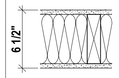
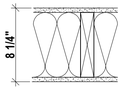
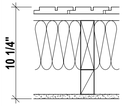
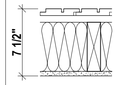
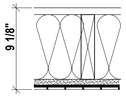
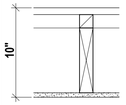
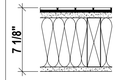
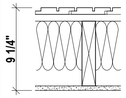
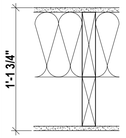
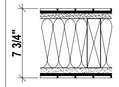
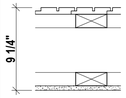
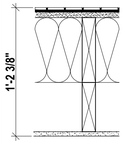
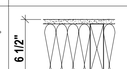
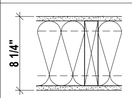
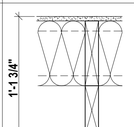
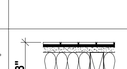
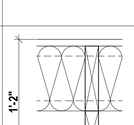
ELECTRICAL

POWER ONE-LINE DIAGRAM

PROJECT NUMBER 334-13-01
DATE: JULY 2016

DRAWING NO. E-02
SHEET 2 OF 3

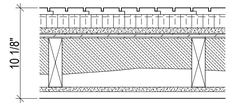
P:\Powder Mountain\347-13-01_01 Booster Pumps Horizon Neighborhood\2.0 - Design Phase\2.7 Drawings\SHT\HN_3341301_E-02.dwg Aug01,2016 - 8:32am

TYPE	INTERIOR WALL TYPE DESCRIPTION	TYPE	INTERIOR WALL TYPE DESCRIPTION	TYPE	INTERIOR WALL TYPE DESCRIPTION
P1	 + 1/2" GWB, PTD (TBD) + 2x6 studs @ 16" o.c. + 1/2" GWB, PTD (TBD)	P10	 + 1/2" GWB, PTD (TBD) + 2x8 studs @ 16" o.c. + 1/2" GWB, PTD (TBD)	P19	 + tile as per spec + 5/8" tile backer board + 2x8 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + steel bracing as per structural + 5/8" tile backer board + tile as per spec
P2	 + 1/2" GWB, PTD (TBD) + 2x6 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + 1/2" GWB, PTD (TBD)	P11	 + 1/2" GWB, PTD (TBD) + 2x8 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + 1/2" GWB, PTD (TBD)	P20	 + 1x4 vertical shiplap wood cladding - 1/4"x1/4" kerf cut at centerline of board + 1x2 horizontal wood strapping as required + 2x6 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + 2 3/4" blocking + 1/2" GWB, PTD (TBD)
P3	 + 1x4 vertical shiplap wood cladding - 1/4"x1/4" kerf cut at centerline of board + 1x2 horizontal wood strapping as required + 2x6 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + 1/2" GWB, PTD (TBD)	P12	 + 1x4 horizontal spf shiplap cladding + 2x8 studs @ 16" o.c. + 1/2" GWB, PTD (TBD)	P21	 + 1x4 horizontal shiplap wood cladding + blocking + 2x8 studs @ 16" o.c. + 1/2" GWB, PTD (TBD)
P4	 + tile as per spec + 5/8" tile backer board + 2x6 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + 1/2" GWB, PTD (TBD)	P13	 + 1x4 vertical shiplap wood cladding - 1/4"x1/4" kerf cut at centerline of board + 1x2 horizontal wood strapping as required + 2x8 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + 1/2" GWB, PTD (TBD)	P22	 + 1/2" GWB, PTD (TBD) + 2x8 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + 2x6 studs @ 16" o.c. + 1/2" GWB, PTD (TBD)
P5	 + tile as per spec + 5/8" tile backer board + 2x6 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + 5/8" tile backer board + tile as per spec	P14	 + 1x4 vertical shiplap wood cladding - 1/4"x1/4" kerf cut at centerline of board + 2x4 sideway studs @ 16" o.c. horizontally blocked to support vertical wood cladding + 5" cavity for sliding doors + 2x4 sideway studs @ 16" o.c. + 1/2" GWB, PTD	P23	 + tile as per spec + 5/8" tile backer board + 2x8 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + 2x6 studs @ 16" o.c. + 1/2" GWB, PTD (TBD)
P6	 + 1/2" GWB, PTD (TBD) + 2x6 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + 1/2" MRGWB, PTD (TBD)	P15	 + 1/2" GWB, PTD (TBD) + 2x8 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + steel bracing as per structural + 1/2" GWB, PTD (TBD)	P24	 + 1/2" GWB, PTD (TBD) + 2x8 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + steel bracing as per structural + 2x6 studs @ 16" o.c. + 1/2" GWB, PTD (TBD)
P7	 + tile as per spec + 5/8" tile backer board + 2x6 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + 1/2" MRGWB, PTD (TBD)	P16	 + 1x4 horizontal shiplap wood cladding + 2x8 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + steel bracing as per structural + 1/2" GWB, PTD (TBD)	P25	 + 1x4 horizontal shiplap wood cladding + 2x8 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + steel bracing as per structural + 2x6 studs @ 16" o.c. + 1/2" GWB, PTD (TBD)
P8	 + 1x4 horizontal shiplap wood cladding + 2x6 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + 1/2" GWB, PTD (TBD)	P17	 + 1/2" GWB, PTD (TBD) + 2x8 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + steel bracing as per structural + 1/2" GWB, PTD (TBD) + 5/8" tile backer board + tile as per spec	P26	 + tile as per spec + 5/8" tile backer board + 2x6 studs on the flat + 5/8" tile backer board + tile as per spe
P9	+ 1x4 vertical shiplap wood cladding - 1/4"x1/4" kerf cut at centerline of board + 1x2 horizontal wood strapping + 2x6 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + 5/8" tile backer board + tile as per spec	P18	+ 1x4 horizontal shiplap wood cladding + 2x8 studs @ 16" o.c. + 5 1/2" acoustic batt in cavity + steel bracing as per structural + 1/2" GWB, PTD (TBD) + 5/8" tile backer board + tile as per spec		

3 A001 Partition Type Legend
Scale 1 1/2" = 1'-0"

EXTERIOR WALL TYPE DESCRIPTION

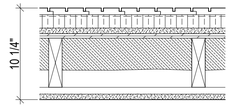
Exterior Wall Assembly 1A - UL DESIGN #305
(1 HR Fire Resistance Rating)



System Components:

+ 1x4 vertical shiplap wood cladding - 1/4"x3/8" kerf cut at centreline of board
+ vapor permeable weather barrier
+ 1 1/2" XPS rigid insulation (R7.5)
+ 5/8" type X gypsum sheathing
+ 1/2" plywood sheathing as per structural
+ 2x6 wood studs as per structural
+ 3" 2lb. sprayfoam insulation (R18) (vapor retarder)
+ 5/8" type X gypsum wallboard (5/8" type X gypsum tile backer board in wet areas)
+ refer to wall finish schedule for interior finish

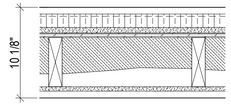
Exterior Wall Assembly 1B - UL DESIGN #305
(1 HR Fire Resistance Rating)



System Components:

Exterior Wall Assembly 1B
+ 1x4 vertical shiplap wood cladding - 1/4"x3/8" kerf cut at centreline of board
+ vapor permeable weather barrier
+ 1 1/2" XPS rigid insulation
+ 5/8" type X gypsum sheathing
+ 1/2" plywood sheathing as per structural
+ 2x6 wood studs as per structural
+ 3" 2lb. sprayfoam insulation (R18) (vapour retarder)
+ 1x4 wood strapping @ 16" o.c.
+ 5/8" type X gypsum wallboard (5/8" type X gypsum tile backer board in wet areas)
+ refer to wall finish schedule for interior finish

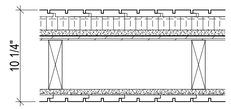
Exterior Wall Assembly 1C - UL DESIGN #305
(1 HR Fire Resistance Rating)



System Components:

+ 1x4 horizontal shiplap wood cladding
+ vapor permeable weather barrier
+ 1 1/2" XPS rigid insulation (R7.5)
+ 5/8" type X gypsum sheathing
+ 1/2" plywood sheathing as per structural
+ 2x6 wood studs as per structural
+ 3" 2lb. sprayfoam insulation (R18) (vapor retarder)
+ 5/8" type X gypsum wallboard
+ 1x4 horizontal shiplap wood cladding

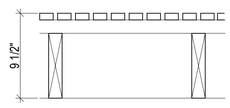
Exterior Wall Assembly 2 - UL DESIGN #305
(1 HR Fire Resistance Rating)



System Components

+ 1x4 vertical shiplap wood cladding - 1/4"x3/8" kerf cut at centreline of board
+ vapor permeable weather barrier
+ 1 1/2" XPS rigid insulation (R7.5)
+ 5/8" type X gypsum sheathing
+ 1/2" plywood sheathing as per structural
+ 2x6 wood studs @ 16" o.c.
+ 5/8" type X gypsum sheathing
+ vapor retarder weather barrier
+ 1x4 vertical shiplap wood cladding - 1/4"x3/8" kerf cut at centreline of board

Exterior Wall Assembly 3



System Components

+ 3/4" x 1-1/2" vertical spf boards w/ 1/2" gaps (stain to be determined by architect)
+ 2x4 horizontal strapping @ 16" o/c
+ 2x8 studs @ +/- 16" o/c

2 A001 Key Plan
Scale 1/128" = 1'-0"

AD	AREA DRAIN	MRGWB	MOISTURE-RESISTANT GYPSUM WALL BOARD
ADJ	ADJACENT		
AFF	ABOVE FINISHED FLOOR	MTL	METAL
ALUM	ALUMINUM	NIC	NOT IN CONTRACT
ANOD	ANODIZED	NOM	NOMINAL
BSMT	BASEMENT	OC	ON CENTER
BYOND	BEYOND	OH	OPPOSITE HAND
BOT	BOTTOM	OZ	OUNCE
B/W	BETWEEN	PCC	PRE-CAST CONCRETE
CHNL	CHANNEL	PLYD	PLYWOOD
CJ	CONTROL JOINT	PT	PRESSURE TREATED
CLG	CEILING	PTD	PAINTED
CLR	CLEAR	PVC	POLYVINYL CHLORIDE
CMU	CONCRETE MASONRY UNIT	RCP	REFLECTED CEILING PLAN
COF	CENTERLINE OF WOOD FRAMING	RD	ROOF DRAIN
COL	COLUMN	REQD	REQUIRED
CONC	CONCRETE	REV	REVERSE
CONT	CONTINUOUS	RM	ROOM
CPT	CARPET	SIM	SIMILAR
CT	CERAMIC TILE	SPEC	SPECIFIED OR SPECIFICATION
DBL	DOUBLE	SPK	SPRINKLER
DIA	DIAMETER	ST STL	STAINLESS STEEL
DIMS	DIMENSIONS	STC	SOUND TRANSMISSION COEFFICIENT
DN	DOWN	STL	STEEL
DR	DOOR	STRUCT	STRUCTURAL
DWG	DRAWING	TELE	TELEPHONE
EA	EACH	TLT	TOILET
EL	ELEVATION	TO	TOP OF
ELEC	ELECTRICAL	TOC	TOP OF CONCRETE
ELEV	ELEVATOR / ELEVATION	TOS	TOP OF STEEL
EQ	EQUAL	TP	TOILET PAPER DISPENSER
FOF	FACE OF WOOD FRAMING	T/D	TELEPHONE/DATA
FDN	FOUNDATION	TYP	TYPICAL
GA	GAUGE	UON	UNLESS OTHERWISE NOTED
GALV	GALVANIZED	U/S	UNDERSIDE
GWB	GYPSUM WALL BOARD	VIF	VERIFY IN FIELD
HC	HOLLOW CORE	VP	VISION PANEL
HI	HIGH	TYP	TYPICAL
HM	HOLLOW METAL	VIF	VERIFY IN FIELD
HP	HIGH POINT	W/	WITH
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	WD	WOOD
ILO	IN LIEU OF		
INSUL	INSULATED		
INT	INTERIOR		
LO	LOW		
MAX	MAXIMUM		
MO	MASONRY OPENING		
MECH	MECHANICAL		
MEMBR	MEMBRANE		
MIN	MINIMUM		

1 A001 Abbreviations

Horizon Neighborhood
CABINS
Summit Powder Mountain
Eden, Utah

MacKay-Lyons Sweetapple
Architects Limited
2188 Gottingen St.
Halifax, Nova Scotia
Canada B3K 3B4
ph: (902) 429.1867
fax: (902) 429.6276

true north
construction north

STATE OF UTAH
Brian MacKay-Lyons
No. 9809836
LICENSED ARCHITECT

NOT FOR CONSTRUCTION

No.	Description	Date
01	Issued for FDN Permit	14.10.2016
Revision:		

NOTES:

COPYRIGHT RELATED TO THE USE OF THIS DRAWING:
The use of this drawing shall be governed by standard copyright law as generally accepted in architectural practice.

ARCHITECT'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Architect.

ENGINEER'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Engineer.

AUTHORITIES' REQUIREMENTS AND APPROVALS:
All materials and workmanship must comply with the requirements of all authorities having jurisdication over the work. It is the Builder's responsibility to gain necessary approval from all relevant Authorities.

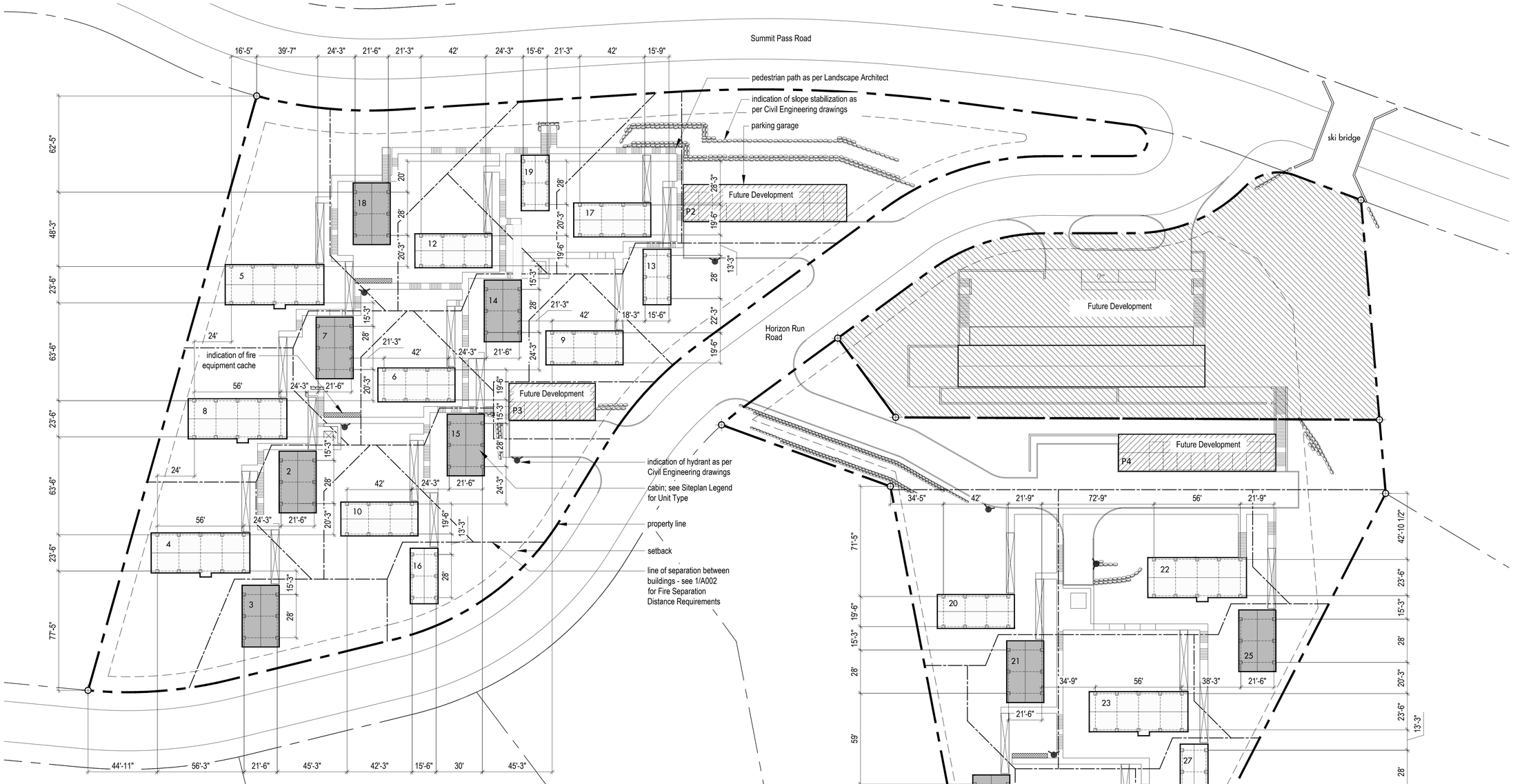
DIMENSIONS:
All dimensions must be verified on site. Do not scale off drawings. Plans take precedent over elevations. In the absence of dimensions, or if discrepancies exist, consult Architect. All minimum dimensions are to comply with the National Building Code of Canada.

SHOP DRAWINGS:
Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated elements of the building.

Cabin 1500 - Abbreviations, Key Plan & Partition Types

scale: varies
date: 16-07-18
drawn: MJ/JL
chk'd: BML

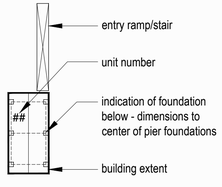
A001



Siteplan Notes:

General Notes:

+ See Civil Engineering drawings for information relating but not limited to:
  - site location.
  - site boundaries.
  - rights-of-way, easements.
  - geodetic elevations, site grading, earthwork.
  - all underground and aboveground services including fire hydrants, maintenance access covers, transformers, air condensers.
  - paved areas such as driveways, curbs, curb cutouts.
+ See Electrical Engineering drawings for site lighting.
+ See specifications for reference to Geotechnical Report.
+ New landscaping to be developed by Landscape Architect.



Typical Cabin Diagram

note: grey toned hatch indicates cabin type included in this drawing set.

Cabin Unit Type Finished Floor Elevations (FFE) Legend
(note: FFE to upper floor level)

1000 SF Unit Type	1500 SF Unit Type	1500+ SF Unit Type	2500 SF Unit Type
#13 (FFE: 8787)	#2 (FFE: 8778)	#6 (FFE: 8791)	#4 (FFE: 8764)
#16 (FFE: 8754)	#3 (FFE: 8748)	#9 (FFE: 8779)	#5 (FFE: 8824)
#19 (FFE: 8821)	#7 (FFE: 8808)	#10 (FFE: 8767)	#8 (FFE: 8794)
#26 (FFE: 8700)	#11 (FFE: 8725)	#12 (FFE: 8815)	#22 (FFE: 8743)
#27 (FFE: 8717)	#14 (FFE: 8798)	#17 (FFE: 8802)	#23 (FFE: 8726)
	#15 (FFE: 8778)	#20 (FFE: 8745)	#24 (FFE: 8709)
	#18 (FFE: 8834)		
	#21 (FFE:8736)		
	#25 (FFE: 8735)		

1 / A100 Site Plan
Scale 1/32" = 1'-0"

Horizon Neighborhood
CABINS
Summit Powder Mountain
Eden, Utah

MacKay-Lyons Sweetapple Architects Limited
2188 Gottingen St.
Halifax, Nova Scotia
Canada B3K 3B4
ph: (902) 429.1867
fax: (902) 429.6276

true north
construction north

STATE OF UTAH
Brian MacKay-Lyons
No. 9809836
LICENSED ARCHITECT

NOT FOR CONSTRUCTION

No.	Description	Date
01	Issued for FDN Permit	14.10.2016
Revision:		

NOTES:

COPYRIGHT RELATED TO THE USE OF THIS DRAWING:
The use of this drawing shall be governed by standard copyright law as generally accepted in architectural practice.

ARCHITECT'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Architect.

ENGINEER'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Engineer.

AUTHORITIES' REQUIREMENTS AND APPROVALS:
All materials and workmanship must comply with the requirements of all authorities having jurisdication over the work. It is the Builder's responsibility to gain necessary approval from all relevant Authorities.

DIMENSIONS:
All dimensions must be verified on site. Do not scale off drawings. Plans take precedent over elevations. In the absence of dimensions, or if discrepancies exist, consult Architect. All minimum dimensions are to comply with the National Building Code of Canada.

SHOP DRAWINGS:
Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated elements of the building.

Cabin 1500 - Site Plan

scale: 1/32" = 1'-0"
date: 16-07-04
drawn: DP
chk'd: BML

A100

Project: **POWDER MOUNTAIN CABIN 1500 CODE ANALYSIS**

Project No.
Date: OCT. 14, 2016

x	User Input
x	Auto Input
Yes	Incorporated in the Project
N/A	Not Applicable as part of this Project
AGP	Above Grade Plane- story
FDVA	Fire Department Vehicle Access
FSD	Fire Separation Distance
BO	Building Official

Planning & Zoning Official:	WEBER COUNTY, UTAH
Building Official:	WEBER COUNTY, UTAH
Plans Examiner:	WEBER COUNTY, UTAH
Engineering:	WEBER COUNTY, UTAH
Health Department:	WEBER COUNTY, UTAH

Applicable Codes:

Year		
2015	IBC	International Building Code, with Appendix "J"
2015	IFC	International Fire Code
2015	IRC	International Residential Code (Parts I-IV and IX)
2015	IPC	International Plumbing Code
2015	IMC	International Mechanical Codes
2014	NEC	National Electrcial Code
2015	IFGC	International Fuel Gas Code
2015	IECC	International Energy Conservation Code: Residential
2015	IECC	International Energy Conservation Code: Commercial
2009	ANSI	ICC/American National Standard A117.1 + FHA + ADAAG
Y		Amendments (State or Local) (Building Code Amend. at www.dopl.utah.gov)
		Title 18 of Salt Lake City Ordinances

Chapter 3 - Occupancy Classification

*Table 508.4 Separation of Occupancies

Occupancy Proposed	Stories		Occupancy		HRS */ F.S.	
R3	2		R3		0	0

* Check Footnotes that May Apply
c. Section 406.3.4

Chapter 4 - Special Requirements

406 Motor Related Occupancies

Yes 420.2 Separation between R2 occupancies with 1 hour fire partition as per 708

Yes 420.3 Horizontal Separation- Separation between units shall be 1 hour.

Chapter 6- Construction Type

Table 601		Table 601			
Occupancy	Type	Fire-Rating per Occupancy*		R3	
R3	VB	Type:		VB	
		Structural Frame		0	
		Bearing Walls Ext.		0	
		Bearing Walls Int.		0	
		Nonbearing walls & part at ext.			
		Nonbearing walls & part at int.		0	
		Floor Construction + Second. members		0	
		Roof Construction + Second. members		0	

* Check footnotes that might apply

Table 602: Fire Resistance for Exterior wall/Fire Separation Distance

	Fire Separ.	Const. Type			R3		
Yes	x<5	All			1		
Yes	5≤x<10	IA, Others			1		
N/A	10≤x<30	IA, VA			1"		
Yes	x≥30	All			0		

Chapter 5 - General Building Heights and Areas Strategy

IBC 2015: Table 504.3, 504.4, 506.2

Mark which Strategy Taken:	Occ	IA, VA H_t Height (ft)	IA, VA S_t Story	IA/ VA A_a Area (sf)	A_o Area (sf)	A_b Area (sf)
Accessory Occ:						
Incidental Acc. Occ:	R3	55	3	7,000		1,128
X Single Occ:						
Mixed Occ:						
Nonseparated Uses:						
Separated Uses:			insert each A_o			

S2 OCCUPANCY - AREA CALCULATION AS SHOWN ON THE LOWER LEVEL PARKING GARAGE

R1OCCUPANCY -

506.1 Area Calculation **(Total Building)**

Aa = At + At If + At Is

Aa = Allowable Area per Floor
At = Tabular Area per Table 503 (square feet)
If = Area increase due to frontage
Is = Area increase due to sprinkler protection

At = UNLIMITED Table 503: Type V-B, Group R2 NFPA 13R
If = 0.30 Sec. 506.2 See calculation below
Is = UNLIMITED Sec. 506.3 Fully Sprinkled: 200% for Multi-Story Building / 300% for Single Story

Aa = UNLIMITED + 0 0.2959 + 0 0

Aa = UNLIMITED + 0 + 0

Aa = UNLIMITED sf ALLOWABLE AREA PER FLOOR
x 2 Multiply by number of stories - 506.4 (Max. 300% increase)
UNLIMITED sf ALLOWABLE AREA OF BUILDING

ACTUAL AREA < ALLOWABLE AREA PER FLOOR

864 UNLIMITED OK, ALLOWABLE EXCEEDS ACTUAL

ACTUAL AREA < ALLOWABLE AREA PER BUILDING

1,727 UNLIMITED OK, ALLOWABLE EXCEEDS ACTUAL

506.2 Frontage Increase

If = F -0.25 W / P 30

If = Area Increase due to frontage
F = Building perimeter which fronts on a public way or open space having 20 feet minimum (feet
P = Perimeter of entire building
W = Width of public way or open space (feet) in accordance with 506.2.1

F = 85 If
P = 122.5 If
W = 20 ft (30 FT IS THE LARGEST NUMBER THAT CAN BE USED.

If = 85 + -0.25 20 / 122.5 30

If = 0.693877551 + -0.25 0.666666667 = 0.443877551 0.666666667

If = 0.30 AREA INCREASE

(Chp. 7)- Fire-Resistance Rated Construction (List Items)

No 704.2 Column Protection:
Primary structural frame individually protected.

No 704.3 Protection of the Primary Structural Frame other than columns:
Requires individual protection when carry more than two floors or one floor and one roof.

No 704.10 Exterior Structural Members:
Requires individual protection when carry more than two floors or one floor and one roof.

705 Exterior Walls:
No 705.2 Projections: Shall not extend closer to FSD than Table 705.2.
Yes 705.2.2 Type V-B of any approved material
705.2.3 Combustible projections either: 1-hr rated construction, type V-B construction.

No 705.5 Fire-resistance ratings:
> 10 ft. exterior wall rated for exposure from inside only
≤ 10 ft. exterior wall rated for exposure from both sides

712 Vertical Openings:
No 712.1.2 Two-story openings: Allowed within individual dwelling unit

718 Concealed Spaces:
N/A 718.2 Fireblocking: Required throughout.

718.3 Draftstopping in floors:
N/A 718.3.3: Exception- Not required if building equipped throughout with an NFPA 13 automatic sprinkler system

718.4 Draftstopping in attics:
N/A 718.4.3: Exception- Not required if building equipped throughout with an NFPA 13 automatic sprinkler system

Chapter 8 - Finishes

Table 803.9 Interior Wall and Ceiling Finish Requirements by Occupancy: sprinklered

Group	Exiting Elements	Corridors	Rooms & enclosed Spaces
R3	B	C	C

Chapter 9 - Fire Protection Systems

903.2 Automatic Sprinkler Systems Where Required:

R3 Required.

N/A 903.3.1 FS Standards: Install FS as per 903.3.1.1, 903.3.1.2 or 903.3.1.3:

YES 903.3.1.2 NFPA 13R sprinkler systems: Group R when ≤ 4 stories in height.
903.3.1.2.1 Balconies and decks: Provide FS when bldg is of Type V const.

Yes 903.3.2 Quick-response and residential sprinklers: Install FS as per 903.3.1 in Group R dwelling units.

906.1 Portable Fire Extinguishers where required:

R3 Required per Dwelling Unit- 1-A:10-B:C

Class A, Ordinary Hazard:
Area/ FE: 2,A
Max flr area/unit of A: 1,500 sf
Max flr area/extinguisher: 11,250 sf
Max travel distance: 75 ft.

907.2 Fire Alarm and Detection Systems- Where required: Installed as per IBC and NFPA 72

R3 907.2.8 : Not required, but exception 2 must be met

Chapter 10 - Means of Egress

Table 1004.1 - Occupant Load: See 'G' Sheets for floor plans showing occupant loads per space.

1005 Egress Width: 0.3 x OL for stairs and 0.2 x OL for other egress components- See 'G' Sheets for floor plans showing stairs and egress components and width required and provided.

1007 Accessible means of Egress

1007.1 Need (1) accessible means of egress/space or (2) per when two exits required.

1007.3 Stairways: Need clear width of 48" between handrails and incorporate 'area of refugees'.
Yes Exception #2 & #3: 48" and 'Area of Refugees' not required when NFPA 13 installed.

Table 1017.2 - Exit access travel distance
R3 = 200' (NFPA 13R)
= 400' (NFPA 13)

N/A 1016.1 - Unenclosed Stairs: exception #3- travel distance shall be measured from the most remote point in the building to an exit discharge.

Yes 1022 Interior exit stairways and ramps:
1- 1022.2: 1-Hr fire barrier when ≤ 4 stories.
2- Construct as per 1022.2 - 1020.10.

(Chp. 11) Accessibility

1103 Scope:

No 1103.2.3 Detached One and Two Family dwellings are exempt from Chapter 11

No 1107.7 General Exceptions
1107.2.2 Multi-story units without elevator service are not required to have Type B, and are exempt.

(Chp 12) Interior Environment

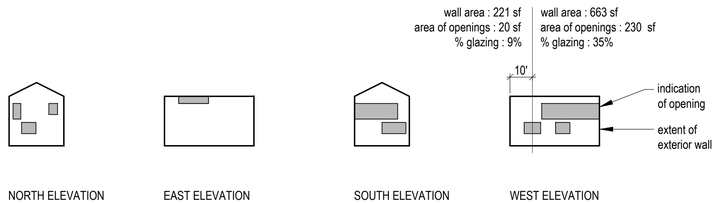
Yes 1207 Sound Transmission:
1207.3 Structure-borne Sound: Dwelling unit must be separated with a floor/ceiling assemblies that have an STC rating ≥ 50 (45 if field tested).

1207.2 Air-borne Sound: Dwelling unit must be separated with walls, partitions and floor/ceiling assemblies that have an IIC rating ≥ 50 (45 if field tested).

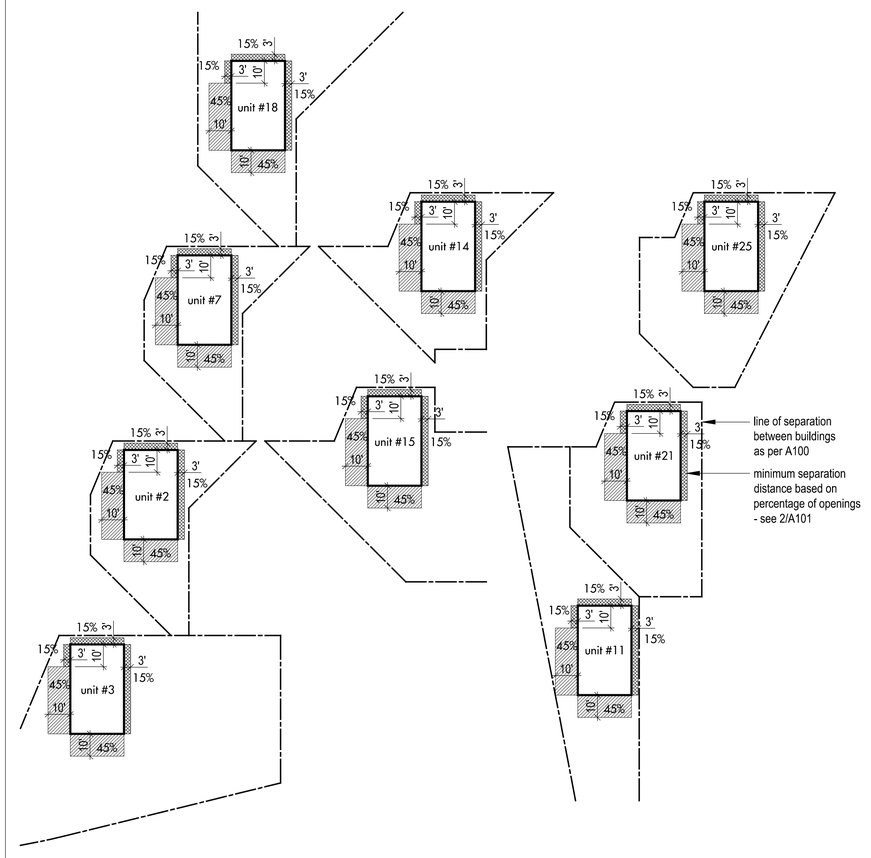
4 A101 Code Review
nts

building number	northwest corner natural grade elevation	northeast corner natural grade elevation	southwest corner natural grade elevation	southeast corner natural grade elevation	upper level floor elevation	height to building ridge	average building height (less than 35')
2	8770.65	8767.8	8756.00	8753.85	8778.00	8794.50	**32.25**
3	8739.90	8738.85	8725.45	8724.30	8748.00	8764.50	**32.4**
7	8798.05	8796.2	8784.00	8782.10	8808.00	8824.50	**34.425**
11	8711.50	8711.4	8703.55	8702.80	8725.00	8741.50	**34.35**
14	8786.85	8782.95	8775.30	8772.70	8798.00	8814.50	**34.725**
15	8766.30	8762.4	8753.75	8753.55	8778.00	8794.50	**34.575**
18	8823.15	8818.45	8810.15	8808.65	8834.00	8850.50	**34.6**
21	8723.35	8723.1	8718.25	8718.00	8736.00	8752.50	**31.825**
25	8720.05	8719.25	8714.65	8713.55	8735.00	8751.50	**34.7**

3 A101 Height Restriction Chart
Scale 1/32" = 1'-0"



2 A101 Percentage of Openings Elevation Diagrams
Scale 1/32" = 1'-0"



1 A101 Separation Distance Plan Diagrams
Scale 1/32" = 1'-0"

Horizon Neighborhood CABINS
Summit Powder Mountain
Eden, Utah

MacKay-Lyons Sweetapple Architects Limited
2188 Gottingen St.
Halifax, Nova Scotia
Canada B3K 3B4
ph: (902) 429.1867
fax: (902) 429.6276

true north

construction north

STATE OF UTAH
Brian MacKay-Lyons
No. 9809836
LICENSED ARCHITECT

NOT FOR CONSTRUCTION

No.	Description	Date
01	Issued for FDN Permit	14.10.2016
Revision:		

NOTES:

COPYRIGHT RELATED TO THE USE OF THIS DRAWING:
The use of this drawing shall be governed by standard copyright law as generally accepted in architectural practice.

ARCHITECT'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Architect.

ENGINEER'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Engineer.

AUTHORITIES' REQUIREMENTS AND APPROVALS:
All materials and workmanship must comply with the requirements of all authorities having jurisdication over the work. It is the Builder's responsibility to gain necessary approval from all relevant Authorities.

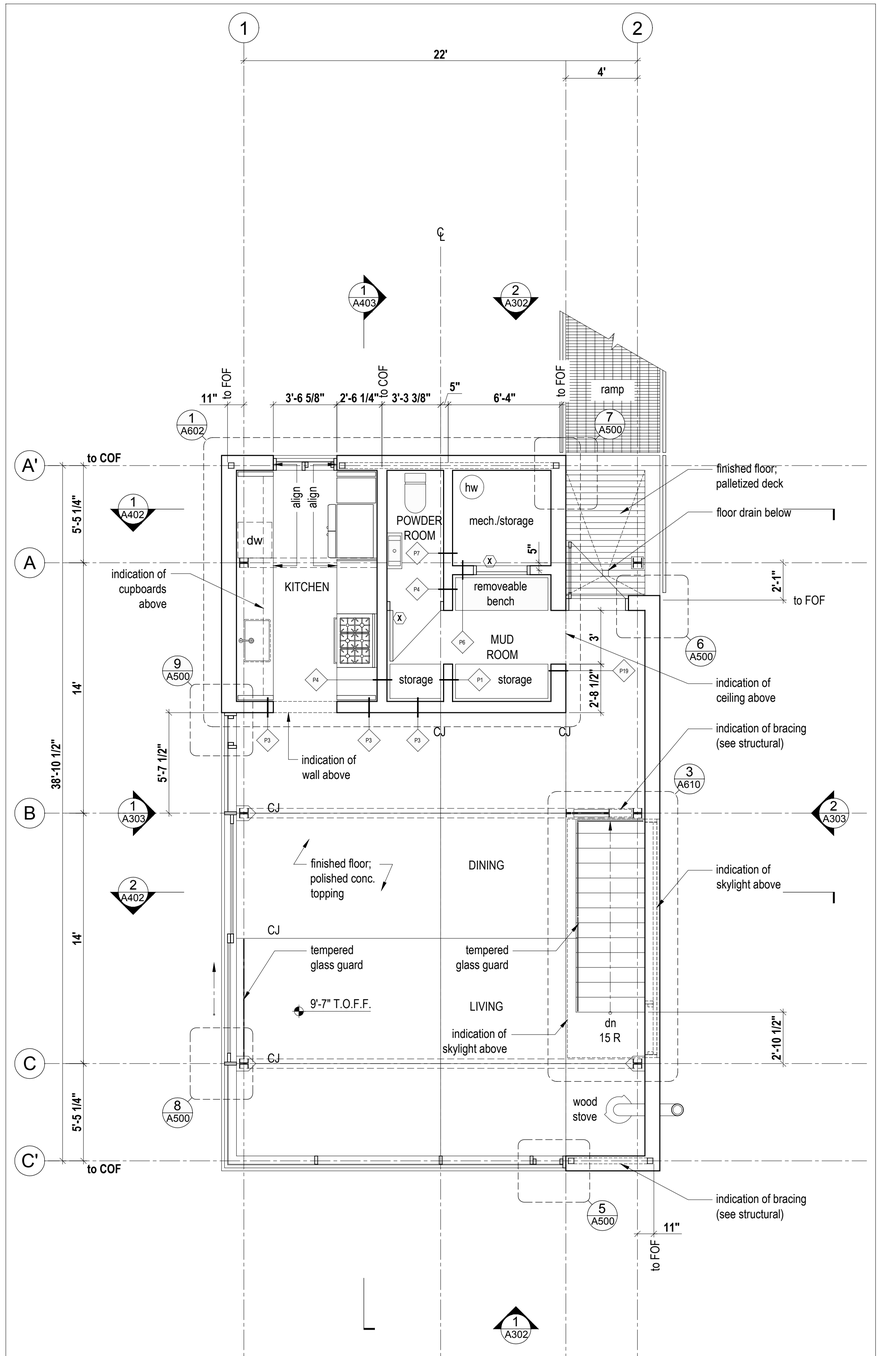
DIMENSIONS:
All dimensions must be verified on site. Do not scale off drawings. Plans take precedent over elevations. In the absence of dimensions, or if discrepancies exist, consult Architect. All minimum dimensions are to comply with the National Building Code of Canada.

SHOP DRAWINGS:
Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated elements of the building.

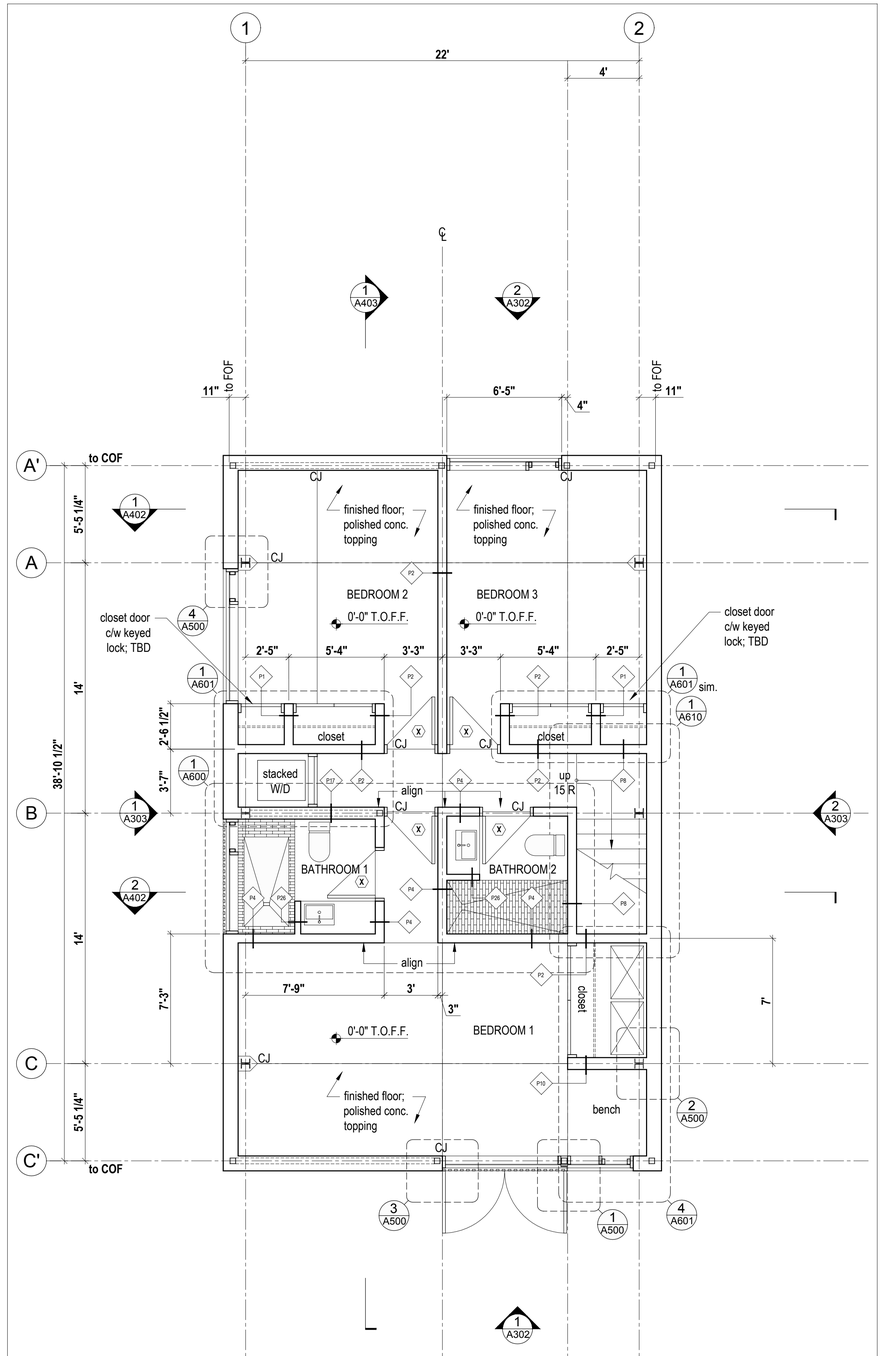
Cabin 1500 - Code Review

scale: varies
date: 16-07-04
drawn: DP
chk'd: BML

A101



2 A200 **Floor Plan Main**
Scale 1/4" = 1'-0"



1 A200 **Floor Plan Lower**
Scale 1/4" = 1'-0"

LEGEND

- ℄ Center line
- (X) Door type
- PX Partition type

Horizon Neighborhood
CABINS

Summit Powder Mountain
Eden, Utah

MacKay-Lyons Sweetapple
Architects Limited
2188 Gottingen St.
Halifax, Nova Scotia
Canada B3K 3B4
ph: (902) 429.1867
fax: (902) 429.6276

true north

construction north

STATE OF UTAH
Brian MacKay-Lyons
No. 9809836
LICENSED ARCHITECT

NOT FOR CONSTRUCTION

No.	Description	Date
01	Issued for FDN Permit	14.10.2016
Revision:		

NOTES:

COPYRIGHT RELATED TO THE USE OF THIS DRAWING:
The use of this drawing shall be governed by standard copyright law as generally accepted in architectural practice.

ARCHITECT'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Architect.

ENGINEER'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Engineer.

AUTHORITIES' REQUIREMENTS AND APPROVALS:
All materials and workmanship must comply with the requirements of all authorities having jurisdication over the work. It is the Builder's responsibility to gain necessary approval from all relevant Authorities.

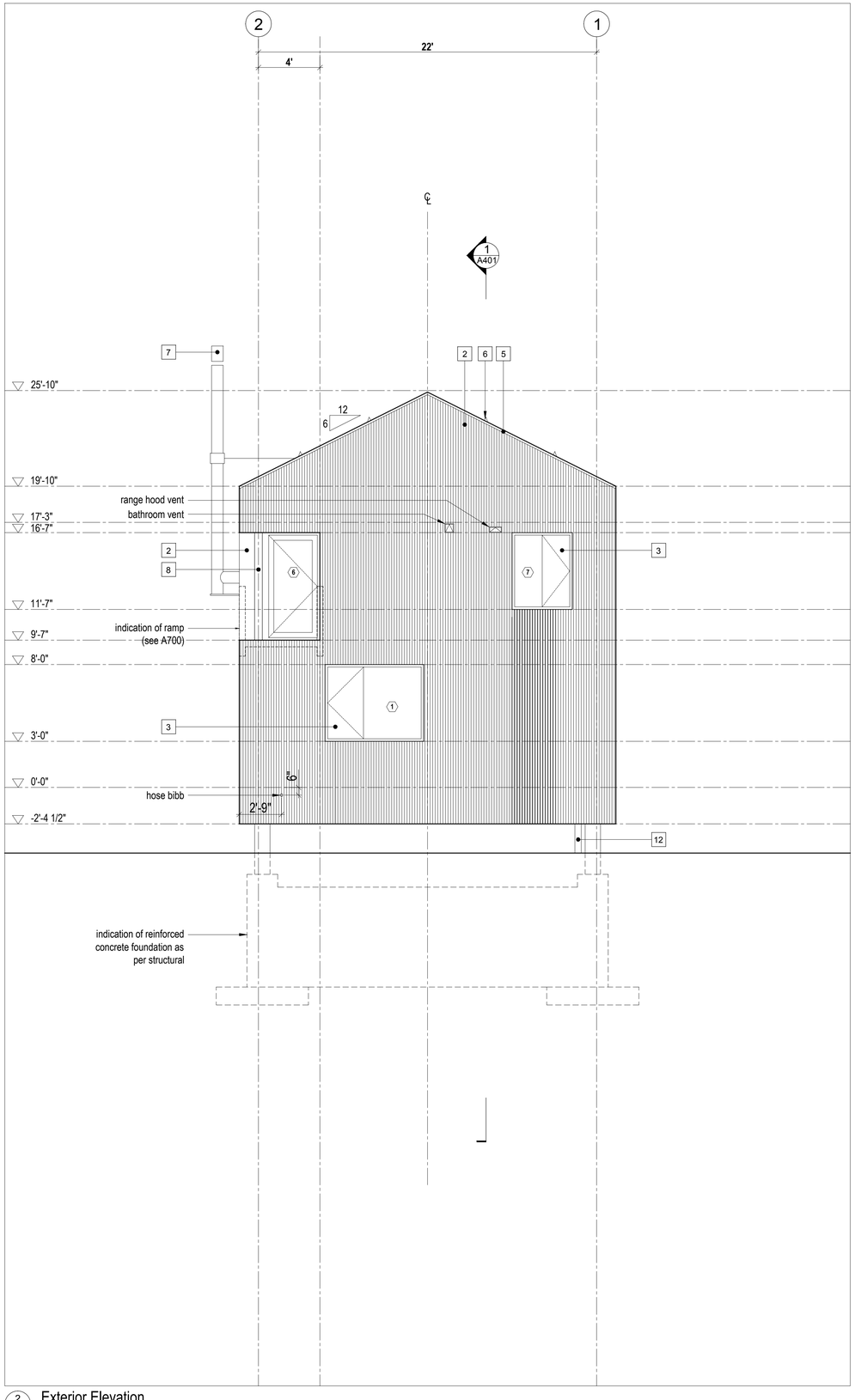
DIMENSIONS:
All dimensions must be verified on site. Do not scale off drawings. Plans take precedent over elevations. In the absence of dimensions, or if discrepancies exist, consult Architect. All minimum dimensions are to comply with the National Building Code of Canada.

SHOP DRAWINGS:
Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated elements of the building.

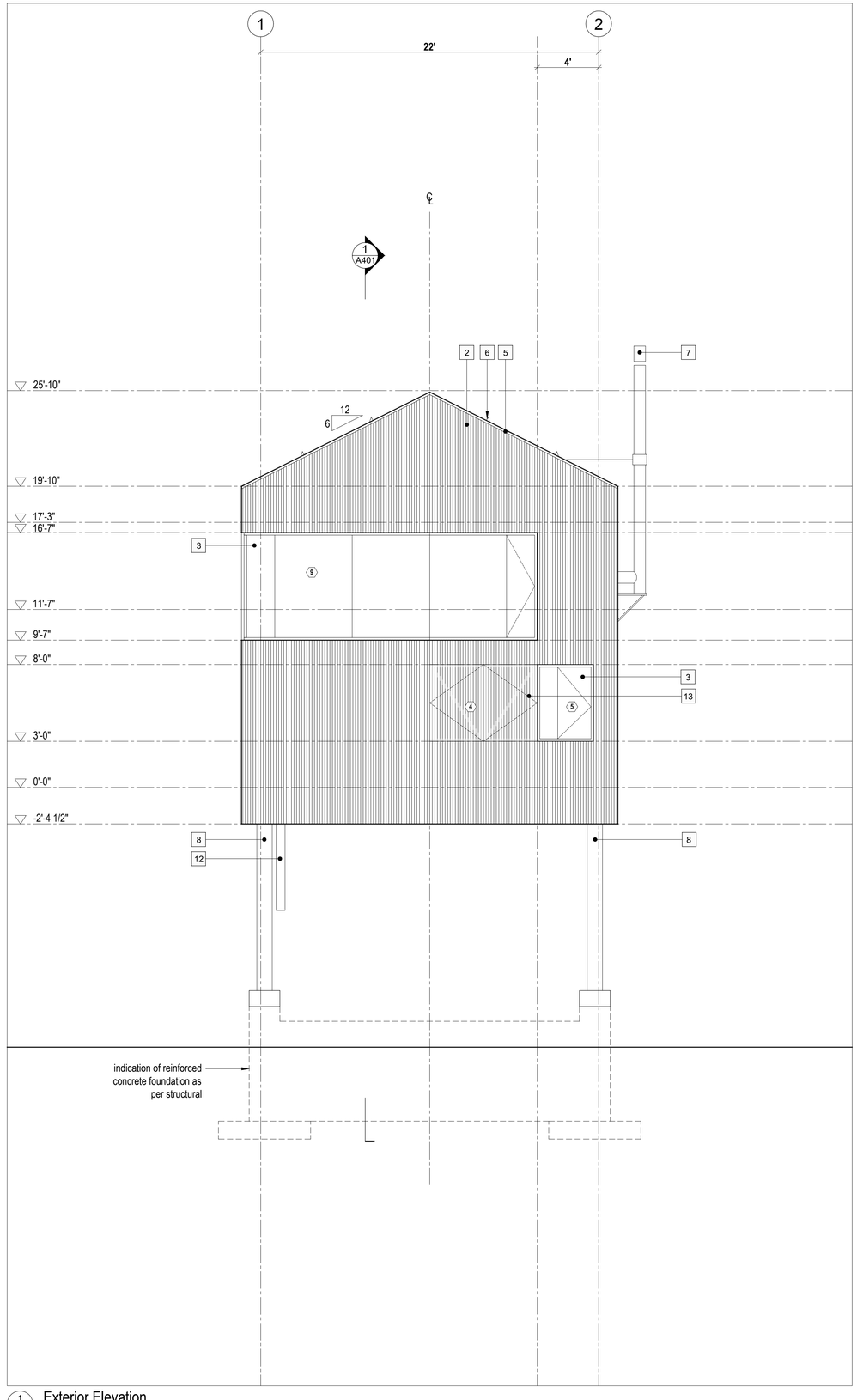
Cabin 1500 - Floor Plans

scale: 1/4"=1-0"
date: 16-04-20
drawn: MJ/JL
chk'd: BML

A200



2 A300 Exterior Elevation
Scale 1/4" = 1'-0"



1 A300 Exterior Elevation
Scale 1/4" = 1'-0"

LEGEND

1. fire retardant pressure treated cedar shingles - 4" exposure
2. 1x4 vertical shiplap wood cladding - 1/4"x3/8" kerf cut at centerline of board
3. anodized aluminum framed glazing system - see window/door schedule
4. anodized aluminum framed sliding glazing system - see window/door schedule
5. clear anodized aluminum flashing
6. snow bracket
7. stainless steel chimney
8. galvanized steel column;
9. galvanized steel bracing
10. side-mounted tempered glass guard
11. wood screen wall as per Exterior Wall Assembly 3
12. insulated steel service chase; galvanized finish to match bracing - see mechanical for locations
13. operable wood screen over glazing

Horizon Neighborhood
CABINS

Summit Powder Mountain
Eden, Utah

MacKay-Lyons Sweetapple
Architects Limited
2188 Gottingen St.
Halifax, Nova Scotia
Canada B3K 3B4
ph: (902) 429.1867
fax: (902) 429.6276

STATE OF UTAH
Brian MacKay-Lyons
No. 9809836
LICENSED ARCHITECT

NOT FOR CONSTRUCTION

No.	Description	Date
01	Issued for FDN Permit	14.10.2016
Revision:		

NOTES:

COPYRIGHT RELATED TO THE USE OF THIS DRAWING:
The use of this drawing shall be governed by standard copyright law as generally accepted in architectural practice.

ARCHITECT'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Architect.

ENGINEER'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Engineer.

AUTHORITIES' REQUIREMENTS AND APPROVALS:
All materials and workmanship must comply with the requirements of all authorities having jurisdiction over the work. It is the Builder's responsibility to gain necessary approval from all relevant Authorities.

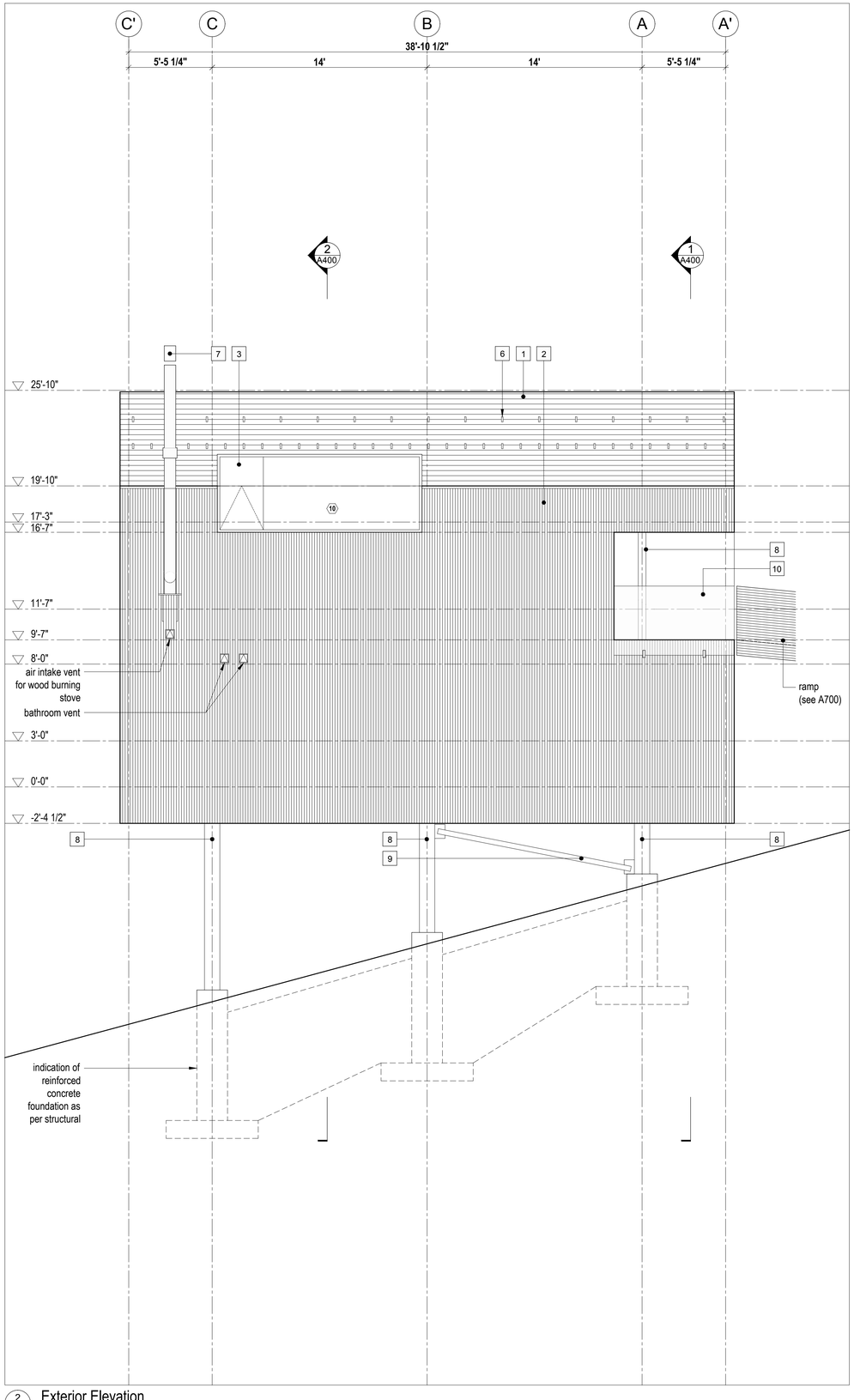
DIMENSIONS:
All dimensions must be verified on site. Do not scale off drawings. Plans take precedent over elevations. In the absence of dimensions, or if discrepancies exist, consult Architect. All minimum dimensions are to comply with the National Building Code of Canada.

SHOP DRAWINGS:
Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated elements of the building.

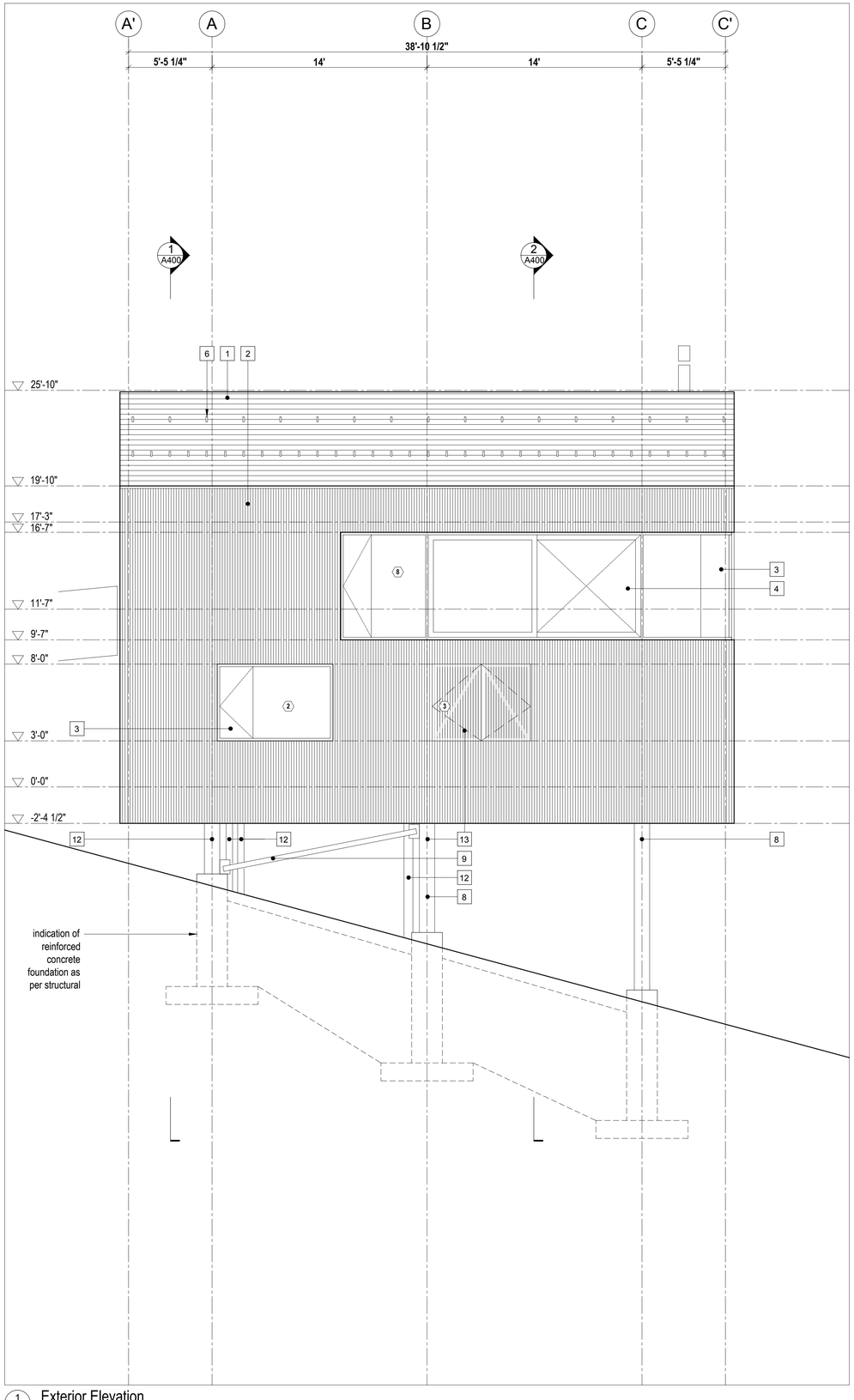
Cabin 1500 - Exterior Elevations

scale: 1/4" = 1'-0"
date: 16-04-20
drawn: MJ/JL
chk'd: BML

A300



2 A301 Exterior Elevation
Scale 1/4" = 1'-0"



1 A301 Exterior Elevation
Scale 1/4" = 1'-0"

LEGEND

1. fire retardant pressure treated cedar shingles - 4" exposure
2. 1x4 vertical shiplap wood cladding - 1/4"x3/8" kerf cut at centerline of board
3. anodized aluminum framed glazing system - see window/door schedule
4. anodized aluminum framed sliding glazing system - see window/door schedule
5. clear anodized aluminum flashing
6. snow bracket
7. stainless steel chimney
8. galvanized steel column;
9. galvanized steel bracing
10. side-mounted tempered glass guard
11. wood screen wall as per Exterior Wall Assembly 3
12. insulated steel service chase; galvanized finish to match bracing - see mechanical for locations
13. operable wood screen over glazing

Horizon Neighborhood
CABINS

Summit Powder Mountain
Eden, Utah

MacKay-Lyons Sweetapple
Architects Limited
2188 Gottingen St.
Halifax, Nova Scotia
Canada B3K 3B4
ph: (902) 429.1867
fax: (902) 429.6276

STATE OF UTAH
Brian MacKay-Lyons
No. 9809836
LICENSED ARCHITECT

NOT FOR CONSTRUCTION

No.	Description	Date
01	Issued for FDN Permit	14.10.2016

Revision:

NOTES:

COPYRIGHT RELATED TO THE USE OF THIS DRAWING:
The use of this drawing shall be governed by standard copyright law as generally accepted in architectural practice.

ARCHITECT'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Architect.

ENGINEER'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Engineer.

AUTHORITIES' REQUIREMENTS AND APPROVALS:
All materials and workmanship must comply with the requirements of all authorities having jurisdiction over the work. It is the Builder's responsibility to gain necessary approval from all relevant Authorities.

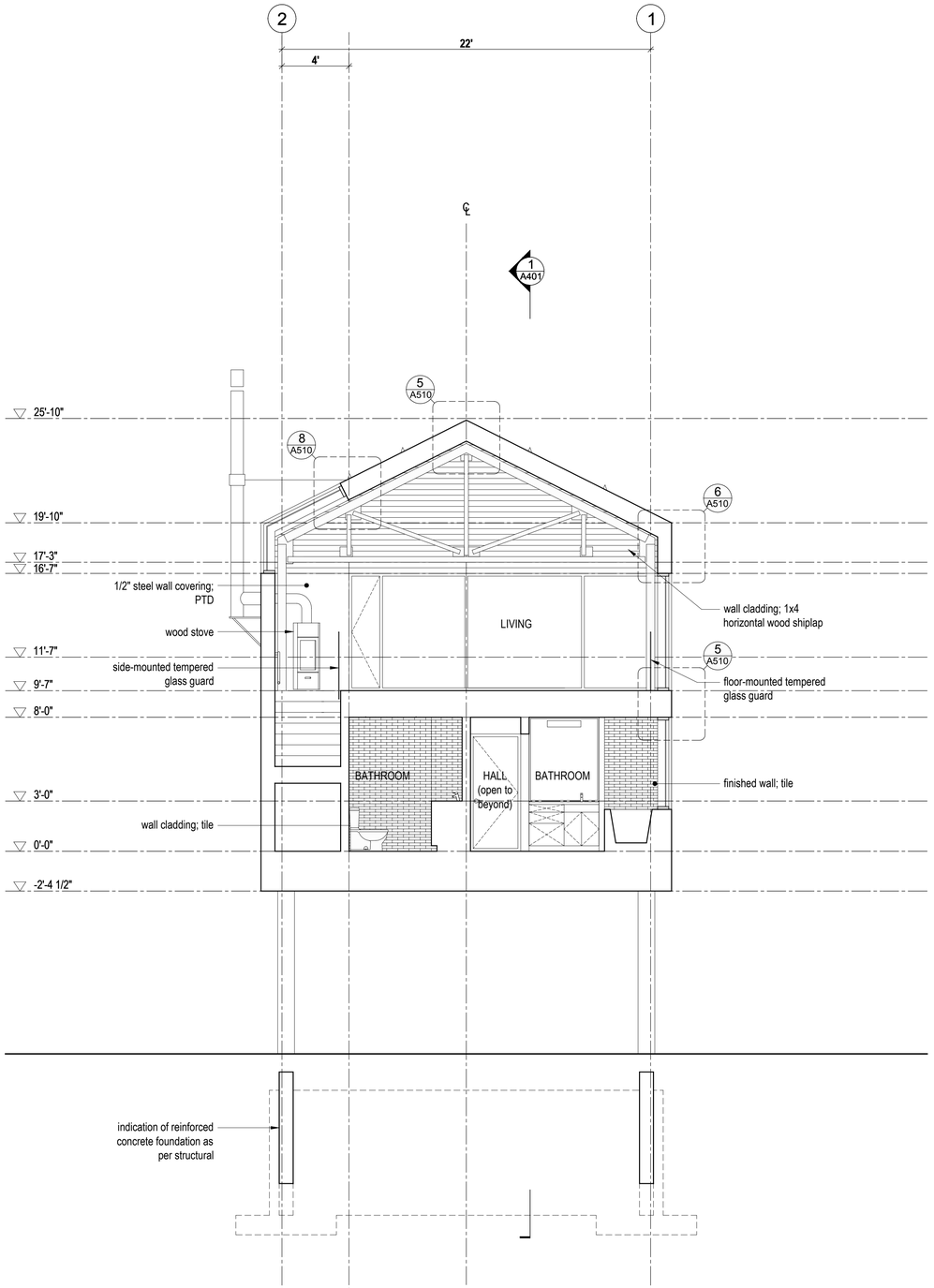
DIMENSIONS:
All dimensions must be verified on site. Do not scale off drawings. Plans take precedent over elevations. In the absence of dimensions, or if discrepancies exist, consult Architect. All minimum dimensions are to comply with the National Building Code of Canada.

SHOP DRAWINGS:
Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated elements of the building.

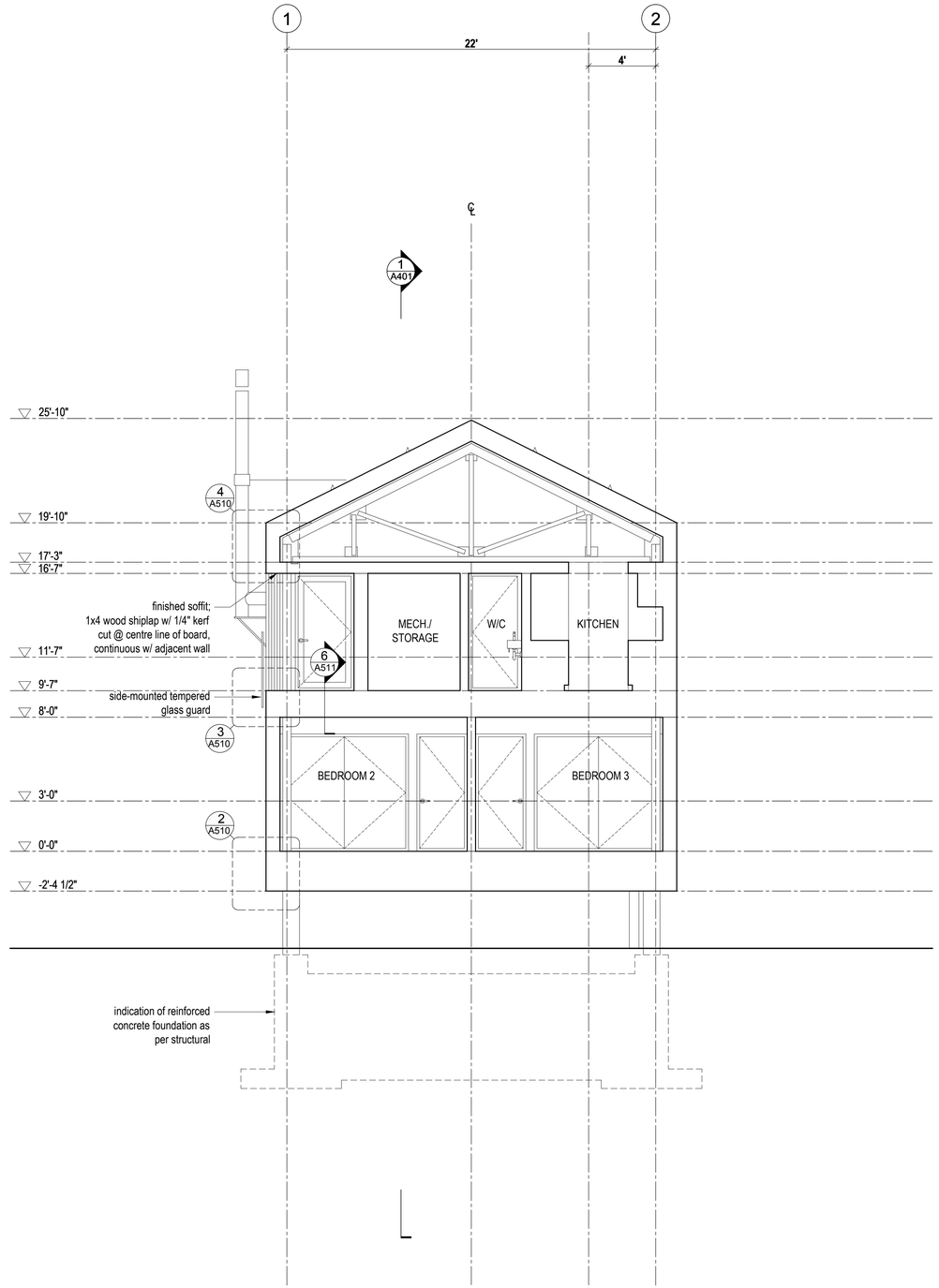
Cabin 1500 - Exterior Elevations

scale: 1/4" = 1'-0"
date: 16-04-20
drawn: MJ/JL
chk'd: BML

A301



2 A400 Cross Section
Scale 1/4" = 1'-0"



1 A400 Cross Section
Scale 1/4" = 1'-0"

Horizon Neighborhood
CABINS

Summit Powder Mountain
Eden, Utah

MacKay-Lyons Sweetapple
Architects Limited
2188 Gottingen St.
Halifax, Nova Scotia
Canada B3K 3B4
ph: (902) 429.1867
fax: (902) 429.6276

STATE OF UTAH
Brian MacKay-Lyons
No. 9809836
LICENSED ARCHITECT

NOT FOR CONSTRUCTION

No.	Description	Date
01	Issued for FDN Permit	14.10.2016
Revision:		

NOTES:

COPYRIGHT RELATED TO THE USE OF THIS DRAWING:
The use of this drawing shall be governed by standard copyright law as generally accepted in architectural practice.

ARCHITECT'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Architect.

ENGINEER'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Engineer.

AUTHORITIES' REQUIREMENTS AND APPROVALS:
All materials and workmanship must comply with the requirements of all authorities having jurisdication over the work. It is the Builder's responsibility to gain necessary approval from all relevant Authorities.

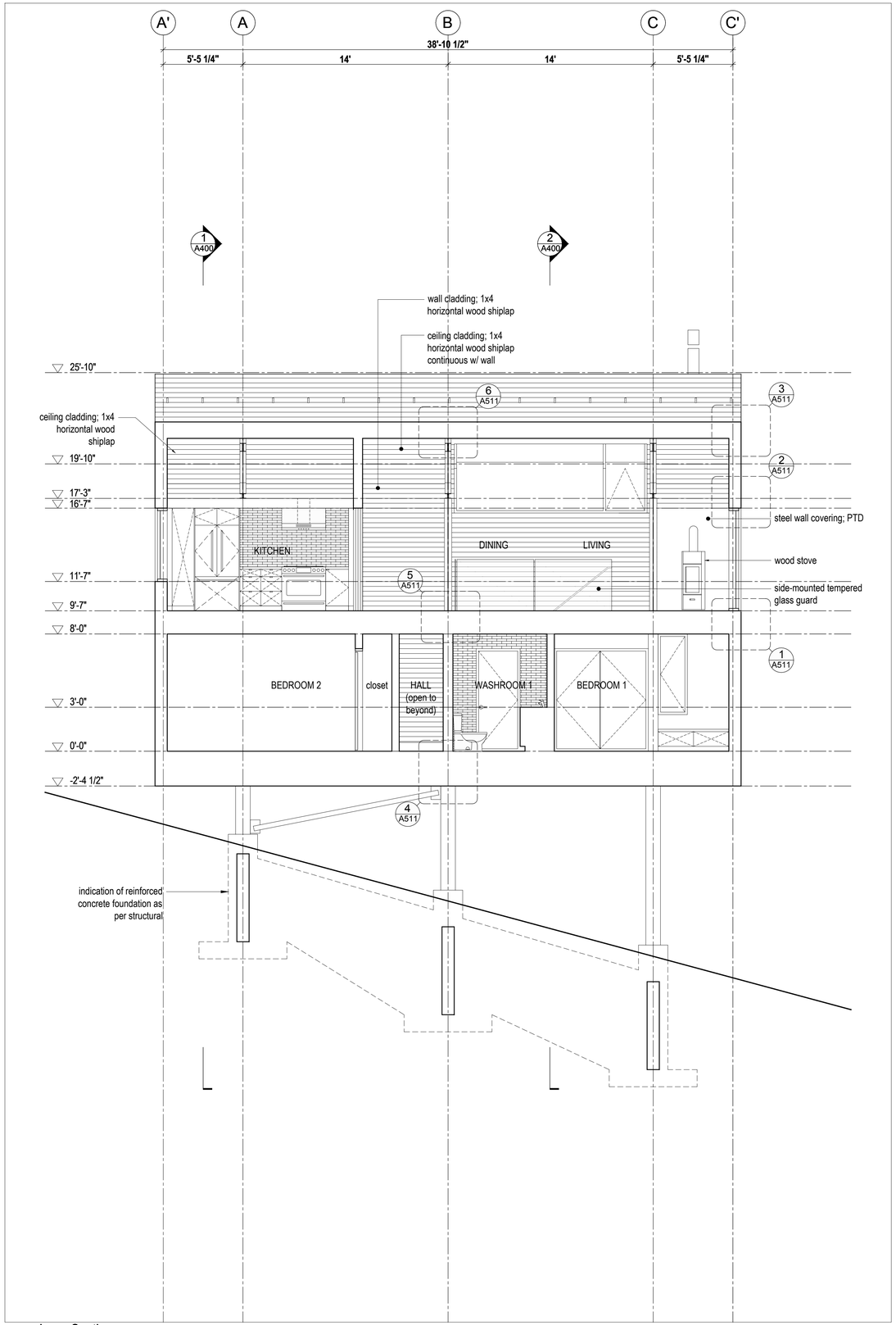
DIMENSIONS:
All dimensions must be verified on site. Do not scale off drawings. Plans take precedent over elevations. In the absence of dimensions, or if discrepancies exist, consult Architect. All minimum dimensions are to comply with the National Building Code of Canada.

SHOP DRAWINGS:
Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated elements of the building.

Cabin 1500 - Building Sections

scale: 1/4" = 1'-0"
date: 16-04-20
drawn: MJ/JL
chk'd: BML

A400



1 A301 **Long Section**
Scale 1/4" = 1'-0"

Horizon Neighborhood
CABINS

Summit Powder Mountain
Eden, Utah

MacKay-Lyons
Sweetapple

**Architects
Limited**

2188 Gottingen St.
Halifax, Nova Scotia
Canada B3K 3B4

ph: (902) 429.1867
fax: (902) 429.6276

STATE OF UTAH
Brian MacKay-Lyons
No. 9809836
LICENSED ARCHITECT

NOT FOR CONSTRUCTION

No.	Description	Date
01	Issued for FDN Permit	14.10.2016

Revision:

NOTES:

COPYRIGHT RELATED TO THE USE OF THIS DRAWING:
The use of this drawing shall be governed by standard copyright law as generally accepted in architectural practice.

ARCHITECT'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Architect.

ENGINEER'S REQUIREMENTS AND APPROVALS:
It is the Builder's responsibility to notify MacKay-Lyons Sweetapple Architects Ltd. and to seek prior written approval for materials and workmanship which deviates from instructions provided by the Engineer.

AUTHORITIES' REQUIREMENTS AND APPROVALS:
All materials and workmanship must comply with the requirements of all authorities having jurisdication over the work. It is the Builder's responsibility to gain necessary approval from all relevant Authorities.

DIMENSIONS:
All dimensions must be verified on site. Do not scale off drawings. Plans take precedent over elevations. In the absence of dimensions, or if discrepancies exist, consult Architect. All minimum dimensions are to comply with the National Building Code of Canada.

SHOP DRAWINGS:
Submit shop drawings to the Architect and Engineer for approval prior to manufacture of prefabricated elements of the building.

Cabin 1500 - Building Section

scale: 1/4" = 1'-0"
date: 16-04-20
drawn: MJ/JL
chk'd: BML

A401

010000 GENERAL

1. CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE OF IBC 2015, LATEST EDITION, AND ALL OTHER APPLICABLE LOCAL CODES AND REGULATIONS OF AGENCIES HAVING JURISDICTION.
2. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS.
3. BEFORE PROCEEDING WITH WORK, CHECK ALL THE DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND REPORT DISCREPANCIES TO THE CONSULTANT.
4. REFER TO THE ARCHITECTURAL AND OTHER DRAWINGS FOR LOCATIONS AND DIMENSIONING OF OPENINGS AND SLEEVES NOT SHOWN ON THE STRUCTURAL DRAWINGS. HOWEVER, OBTAIN THE CONSULTANT'S PRIOR APPROVAL BEFORE INSTALLING OPENINGS, SLEEVES, ETC. WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
5. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PITS, BASES, SUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLOPES NOT SHOWN ON STRUCTURAL DRAWINGS.
6. HORIZONTAL AND VERTICAL DESIGN LOADS ARE NOTED. THEY SHALL NOT BE EXCEEDED DURING CONSTRUCTION.
7. TYPICAL STRUCTURAL DETAILS SHALL GOVERN THE WORK. IF DETAILS DIFFER ON THE DRAWINGS, THE MOST STRINGENT SHALL GOVERN.
8. ALL TEMPORARY WORKS INCLUDING SHORING ARE TO BE PROVIDED BY THE CONTRACTOR.
9. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS.

010001 DESIGN NOTES

1. ALL REINFORCED CONCRETE ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH ACI BUILDING CODE, ACI 318-14.
2. ALL STRUCTURAL STEEL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH AISC 'SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS' - LATEST EDITION AND ALL CURRENT SUPPLEMENTS.
3. ALL STRUCTURAL TIMBER ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS AND THE CODES, RULES, AND REGULATIONS OF THE STATE OF UTAH:
   a) AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC).
   b) NATIONAL FOREST PRODUCTS ASSOCIATION "DESIGN SPECIFICATIONS FOR STRESS GRADE LUMBER"
   c) U.S. DEPT. OF COMMERCE STANDARD CS 253.
   d) AMERICAN PLYWOOD ASSOCIATION.
4. LATERAL FORCES ON STRUCTURAL FRAME
   A. THE LATERAL FORCES ARE RESISTED BY THE WOOD FRAME SHEARWALLS, MOMENT FRAMES, STEEL BRACING, AND CONCRETE FOUNDATION WALLS.
   B. THE FRAME IS NOT STABLE UNTIL THE LATERAL LOAD RESISTING SYSTEM IS IN PLACE.
   C. WIND:
      I) THE DESIGN OF THE STRUCTURE FOR WIND IS BASED ON A BASIC WIND SPEED (3 SECOND GUST) OF 115 MPH,
      II) THE IMPORTANCE FACTOR, IW, FOR WIND DESIGN IS 1.
      III) WIND EXPOSURE: C
      IV) THE DESIGN WIND FORCES HAVE BEEN CALCULATED IN ACCORDANCE WITH THE SIMPLIFIED WIND LOAD METHOD BY SECTION 1609.6 OF IBC 2015.
   D. EARTHQUAKE:
      I) THE DESIGN OF THE STRUCTURE FOR EARTHQUAKE IS BASED ON:
      - IE = 1.0
      - SEISMIC RISK CATEGORY = 2
      - SS = .898
      - S1 = .304
      - SITE CLASS = D
      - SDS = 0.683
      - SD1 = 0.363
      - SEISMIC DESIGN CATEGORY = D
      - RESPONSE MODIFICATION FACTOR, R = 3.25

      THE DESIGN EARTHQUAKE FORCES HAVE BEEN CALCULATED USING THE SIMPLIFIED PROCEDURE BY SECTION 1617.5 OF IBC 2015.
5. LATERAL FORCES ON FOUNDATION WALLS
   A. WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND A HORIZONTAL PRESSURE AT ANY DEPTH (H) GIVEN BY THE EXPRESSION:
      P = K (G H + Q) , WHERE
      P IS THE PRESSURE EXERTED HORIZONTALLY
      H IS THE DEPTH BELOW GRADE
      G IS THE UNIT WEIGHT OF SOIL
      Q IS THE SURCHARGE ON THE GROUND SURFACE
   B. FOUNDATION AND OTHER WALLS RETAINING EARTH HAVE BEEN DESIGNED FOR SURCHARGE OF 100PSF.
   C. THE WALLS HAVE BEEN DESIGNED ASSUMING THAT THERE IS FREE-DRAINING BACKFILL, OR THAT OTHER PROVISIONS HAVE BEEN MADE, SUCH THAT THE WALLS ARE NOT SUBJECT TO HYDROSTATIC PRESSURE.
6. SNOW LOADS ON ROOFS
   A. THE ROOFS HAVE BEEN DESIGNED FOR A ROOF SNOW LOAD OF 192PSF.
   B. ADDITIONAL SNOW ACCUMULATIONS ADJACENT TO HIGHER WALLS, ROOFS AND MECHANICAL UNITS ARE INDICATED ON THE DRAWINGS.
7. WIND UPLIFT OF ROOFS
   A. ALL ROOF ELEMENTS, AND ITS CONNECTION TO THE STRUCTURE ARE TO BE DESIGNED FOR AN UPWARD SUCTION OF 20 psf, DUE TO WIND.
8. LIVE AND OTHER LOADS
   A. SEE NOTES BELOW FLOOR PLANS.
9. FUTURE EXTENSIONS
   THE STRUCTURE HAS NOT BEEN DESIGNED FOR ANY FUTURE EXTENSIONS

030000 CONCRETE

1. MATERIALS
   A. CONCRETE
      i) CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE AND ACI 318 AND THE FOLLOWING FOR STRENGTH, WATER-TO-CEMENTING MATERIALS CONTENT AND AIR CONTENT.
      ii) NOMINAL MAXIMUM SIZE OF AGGREGATE SHALL BE 3/4 in. USE SMALLER AGGREGATES AS APPROPRIATE IN AREAS OF CONGESTED REINFORCING STEEL OR TO IMPROVE WORKABILITY. MODIFY MIX DESIGNS TO SUIT.

CATEGORY	DESCRIPTION	EXPOSURE CLASS PER CSA A23.1	CONCRETE STRENGTH f'c (psi)	SLUMP[1] (in)	MAX. W/C RATIO	AIR CONTENT[2]	SCOPE
CM 1	FOUNDATION MIX		3500	3 1/8		5%-8%	FOOTINGS AND CAPS
CM 2	SLAB ON GRADE MIX		3000	3 1/8			SLABS ON GRADE
CM 4	COLUMN AND WALL MIX		4500	3 1/8			CONCRETE COLUMNS AND WALLS NOT EXPOSED TO FREEZE THAW OR DE-ICING CHEMICALS
CM 5	TOPPING MIX		3000	1 1/2			TOPPINGS ON CONCRETE.
CM 6	COMPOSITE DECK MIX		3000	2 3/8			SLABS ON METAL DECK
CM 7	PARKING SLAB AND BEAM MIX	C-1[3]	5000	3 1/8	0.40	5%-8%	FOUNDATION WALLS ADJACENT TO PAVING. FRAMED SLABS AND BEAMS EXPOSED TO DE-ICING CHEMICALS.
CM 8	PAVING MIX	C-2	4700	2 3/8	0.45	5%-8%	EXTERIOR PAVING AND SIDWALKS
CM 11	EXTERIOR WALL MIX	F-2	3500	3 1/8	0.55	4%-7%	FOUNDATION WALLS AND OTHER WALLS EXPOSED TO FREEZE THAW BUT NOT EXPOSED TO DE-ICING CHEMICALS
CM 12	LEAN MIX		6 max.[4]	6-8		4-6% (EXTERIOR ONLY)	UNSHRINKABLE FILL
CM 13	SELF CONSOLIDATING MIX		4500	SLUMP FLOW			

1. TOLERANCE FOR SLUMP SHALL BE +/- ¼" FOR SPECIFIED SLUMP 3 1/8" OR LESS, AND +/- 1 ¼" FOR SPECIFIED SLUMP BETWEEN 3 1/8" AND 6 5/8"
2. WHERE AGGREGATES SMALLER THAN 9/16 in ARE USED, INCREASE AIR CONTENT BY 1 %
3. CONCRETE EXPOSED TO DE-ICING CHEMICALS TO HAVE DCI CORROSION INHIBITOR @ 11L/cu.m. (0.31L/cu.f.) DOSAGE OR APPROVED EQUIVALENT
4. MAX 25kg CEMENT/cu.m.

   B. REINFORCEMENT:
      i) CONFORM TO THE REQUIREMENTS OF ASTM A615, AND ASTM A706 IF WELDABLE REINFORCEMENT IS USED.
      ii) REINFORCING BARS SHALL BE MINIMUM ASTM A615 GRADE 60, AND WELDED WIRE FABRIC SHALL BE MINIMUM ASTM A185, SUPPLY IN FLAT SHEETS.
2. EXECUTION
   A. SLAB ON GRADE
      i) PLACE SLABS ON GRADE ON MATERIAL CAPABLE OF SUSTAINING 500psf WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOOTINGS.
      ii) BEFORE PLACING SLAB, PLACE MINIMUM 6 INCHES OF 3/4 INCH MAXIMUM SIZE CLEAR CRUSHED STONE OVER THE SUB GRADE. THOROUGHLY ROLL AND CONSOLIDATE TO THE LINES AND LEVELS REQUIRED.
   B. CONCRETE AND REINFORCEMENT
      i) PROVIDE DOWELS TO WALLS AND COLUMNS SIMILAR IN NUMBER, SIZE, AND SPACING TO THE VERTICAL STEEL IN THE WALL OR COLUMN EXCEPT WHEN NOTED OTHERWISE.
      ii) CONSTRUCTION JOINTS:
      - PROVIDE 1.5 in x 3.5 in KEYS AT CONSTRUCTION JOINTS UNLESS NOTED OTHERWISE.
      iii) CONCRETE COVER TO REINFORCEMENT: CONFORM TO THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE AND ACI 318 AND THE FOLLOWING FOR COVER TO REINFORCEMENT (in):

	EXPOSURE		
REINFORCING	**NOT EXPOSED**	**EARTH OR WEATHER**	**CHLORIDES**
CAST AGAINST & PERMANENTLY EXPOSED TO EARTH		3	3
SLABS, WALLS	¾	2	2½

CONCRETE PROTECTED BY A WATERPROOFING MEMBRANE IS NOT TO BE CONSIDERED EXPOSED TO CHLORIDES BUT MAY BE CONSIDERED EXPOSED TO WEATHER.

      iv) SECURELY TIE IN PLACE AND ADEQUATELY SUPPORT ALL REINFORCEMENT. LAP ALL BARS MARKED "CONTINUOUS" (CONT.) 40 BAR DIAMETERS.
      v) WHERE EXPANSION ANCHORS ARE REQUIRED, USE 5/8" DIA. X 6" HILTI KB II OR APPROVED EQUAL.
      vi) WHERE CHEMICAL ANCHORS ARE REQUIRED, USE HILTI HY 150 EPOXY, OR APPROVED EQUAL.

310000 FOUNDATIONS

1. A SOIL INVESTIGATION HAS BEEN DONE BY IGES AS REPORTED IN THER SOIL REPORT "GEOTECHNICAL AND GEOLOGIC HAZARD INVESTIGATION - HORIZON NEIGHBOURHOOD DEVELOPMENT, SUMMIT POWDER MOUNTAIN RESORT" DATED AUGUST 3RD 2016. READ THIS REPORT, AND BE THOROUGHLY FAMILIARIZED WITH THEIR FINDINGS.
2. FOUND ALL FOOTINGS ON ENGINEERED FILL CAPABLE OF SAFELY SUSTAINING AN ALLOWABLE BEARING VALUE OF 2600 PSF.
3. FOUND FOOTINGS EXPOSED TO FREEZING BELOW THE LEVEL AT WHICH POTENTIAL DAMAGE RESULTING FROM FROST ACTION CAN OCCUR, BUT A MINIMUM OF 40 INCHES BELOW FINISHED GRADE IF NOT NOTED TO BE FOUNDED LOWER.
4. THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10.
5. DO NOT PLACE BACKFILL AGAINST WALLS RETAINING EARTH (OTHER THAN CANTILEVER WALLS) UNTIL THE FLOOR CONSTRUCTION AT TOP AND BOTTOM OF THE WALLS IS POURED AND HAS ATTAINED 70% OF ITS SPECIFIED STRENGTH.
6. CARRY OUT BACKFILLING AGAINST FOUNDATION WALLS WHERE THERE IS GRADE ON BOTH SIDES IN SUCH A MANNER THAT THE LEVEL OF BACKFILLING ON ONE SIDE OF THE WALL IS NEVER MORE THAN 1'-8" DIFFERENT FROM THE LEVEL ON THE OTHER SIDE OF THE WALL.

050000 STRUCTURAL STEEL:

1. CONFORM TO THE REQUIREMENTS OF THE AISC "SPECIFICATIONS FOR STRUCTURAL STEEL FOR BUILDINGS" - LATEST EDITION AND ALL CURRENT SUPPLEMENTS.
2. MATERIALS
   A. CHANNEL AND WIDE FLANGE SHAPES - CONFORM TO THE REQUIREMENTS OF ASTM A992
   B. TUBE MEMBERS - CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B
   C. BOLTS, NUTS AND WASHERS - A325
   D. ALL OTHER - CONFORM TO THE REQUIREMENTS OF ASTM A36
   E. METAL DECK: - CONFORM TO THE REQUIREMENTS OF AISC 325 AND AISC 360, DESIGN ALL ELEMENTS WITH THE LATEST PUBLISHED VERSION OF APPLICABLE CODES.
   F. ALL WELDING ELECTRODES ARE E70XX, LOW HYDROGEN.
   G. ALL STRUCTURAL STEEL EXPOSED TO VIEW SHALL BE DESIGNATED AS ARCHITECTURALLY EXPOSED AESS CATEGORY 1
3. EXECUTION
   A. PROVIDE A MINIMUM BEARING OF 8 INCHES FOR ALL STEEL BEAMS BEARING ON MASONRY AND A MINIMUM OF 4 INCHES ON STRUCTURAL STEEL, UNLESS NOTED OTHERWISE.
   B. CENTRE BEARING PLATES UNDER BEAMS, OR AS NOTED.
   C. BEARING PLATE DIMENSION GIVEN FIRST INDICATES SIDE PARALLEL TO BEAM WEB.
   D. NO STRUCTURAL STEEL SHALL BE CUT WITHOUT THE PERMISSION OF THE CONSULTANT.
   E. WHERE COLUMNS ARE STABILIZED BY WALLS PROVIDE COLUMN ANCHORS AT ABUTTING WALLS. PROVIDE TEMPORARY BRACING UNTIL WALLS ARE BUILT TIGHT TO COLUMNS.
   F. PROVIDE FULL HEIGHT WEB STIFFENERS AT ALL BEAMS BEARING ON COLUMNS AND ALL BEAMS SUPPORTING COLUMNS. WEB STIFFENERS SHALL BE OF THE SAME SIZE AND THICKNESS AS THE COLUMN FLANGES AND SHALL ALIGN WITH THE FLANGES OF THE SUPPORTING COLUMN.
   G. ALL WELDING WORK BY AWS CERTIFIED WELDERS. CONFORM TO THE AMERICAN WELDING SOCIETY CODE AWS D1.1.
   H. ALL FIELD WELDING BY THE MANUAL SHIELDED ARC WELDING METHOD.
   I. PROVIDE A MINIMUM OF FOUR 3/4" DIAMETER ASTM A325 BOLTS PER CONNECTION, IN BEARING TYPE CONNECTION.
   J. WHERE A WELD IS REQUIRED, AND NO WELD IS SHOWN ON THE DRAWINGS, PROVIDE A 1/4" FILLET WELD ALL AROUND, UNLESS A LARGER WELD SIZE IS REQUIRED AS A MINIMUM WELD SIZE BY AISC.
   K. USE AWS PRE-QUALIFIED COMPLETE JOINT PENETRATION GROOVE WELDS FOR ALL GROOVE WELDS.

060000 WOOD

1) ALL LUMBER WORK AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS AND THE CODES, RULES, AND REGULATIONS OF THE STATE OF UTAH:
a) AMERICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC)
b) NATIONAL FOREST PRODUCTS ASSOC. "DESIGN SPECIFICATIONS FOR STRESS GRADE LUMBER".
c) U.S. DEPT. OF COMMERCE STANDARD CS 253.
d) AMERICAN PLYWOOD ASSOCIATION.
2) LUMBER FOR ALL INTERIOR STRUCTURAL FRAMING, INCLUDING ROOF FRAMING, JOISTS, POSTS, STUDS, SILLS, CAP PLATES, WOOD BEARING PLATES, AND BLOCKING, SHALL BE SURFACE DRY AND USED AT MAXIMUM 19% MOISTURE CONTENT WITH THE FOLLOWING MINIMUM BASE DESIGN VALUES FOR VISUALLY GRADED DIMENSION LUMBER:
   i) BENDING: Fb = 850 psi
   ii) HORIZONTAL SHEAR: Fv = 95 psi
   iii) COMP, PERPENDICULAR TO GRAIN: Fc = 625 psi
   iv) COMP PARALLEL TO GRAIN: Fc = 1300 psi
   v) MODULUS OF ELASTICITY: E = 1600000 psi

   ALL VALUES SHALL BE ADJUSTED WITH APPROPRIATE ADJUSTMENT FACTORS AS PER THE NDS SUPPLEMENT.
3) USE DOUBLE MEMBERS AT ALL JAMBS AND HEADS OF ALL OPENINGS, USE DOUBLE JOISTS (MIN.) BELOW ALL NON-BEARING STUD WALLS PARALLEL TO SPANS AND PROVIDE SOLID BLOCKING BETWEEN JOISTS BELOW ALL NON-BEARING STUD WALLS PERPENDICULAR TO JOIST SPANS. USE DOUBLE SILLS AND CAP PLATES FOR ALL BEARING WALLS.
4) SAWN LUMBER
   i) SPECIES - SPRUCE-PINE-FIR
   ii) GRADE - No.1/No.2
5) PLYWOOD SHEATHING
   i) FLOOR AND ROOF SHEATHING TO BE TONGUE AND GROOVE
   ii) EXTERIOR SHEATHING SHALL CONSIST OF ⅞" EXPOSURE 1 GRADE PLYWOOD FASTENED TO STUDS WITH 8d NAILS AT 6" O/C MAX.
6) CONNECTIONS
   i) ALL WOOD TO WOOD CONNECTIONS OR WOOD TO STEEL CONNECTIONS UNLESS OTHERWISE NOTED ARE TO BE THE APPROPRIATE SIMPSON STRONG-TIE HANGER OR APPROVED OTHERWISE.
   ii) NAILS ARE TO CONFORM TO THE REQUIREMENTS OF ASTM F 1667.
   iii) LAG SCREWS ARE TO CONFORM TO THE REQUIREMENTS OF ASTM B18.2.1
   iv) WOOD SCREWS ARE TO CONFORM TO THE REQUIREMENTS OF ASTM B18.6.1.
   v) ALL LAG BOLTS, THRU BOLTS AND OTHER HARDWARE TO BE HOT DIPPED GALVANIZED.
   vi) ALL LAG BOLTS SHALL HAVE SHARP THREADS FOR AT LEAST ONE-HALF THE TOTAL BOLT LENGTH, UP TO 152 mm (6") THREADED LENGTH. LAG BOLT WITH DULL THREADS, OR INSUFFICIENT THREADED LENGTH, WILL BE REJECTED OUTRIGHT.
   vii) UNLESS OTHERWISE APPROVED BY THE CONSULTANT, ALL NAILS ARE TO HAVE FULL ROUND HEADS; CLIPPED HEAD NAILS ARE NOT ACCEPTABLE.
7. EXECUTION
a. PROTECT ALL WOOD PRODUCTS FROM DAMAGE AND STAINING DUE TO WETTING AND MOISTURE.
b. PROTECT INSTALLED DECKING AND SHEATHING FROM EXCESSIVE MOISTURE UNTIL FINAL WATERPROOFING IS COMPLETE. ENSURE SURFACES THAT ARE TO RECEIVE FINISHES MEET MANUFACTURERS REQUIREMENTS FOR MAXIMUM MOISTURE CONTENT FOR THE FINISH SPECIFIED.
c. DIMENSION LUMBER WITH SMALLER NOMINAL DIMENSION OF 2 INCHES ("2-BY-") PRESERVATIVE TREATED FOR EXTERIOR APPLICATIONS SHALL NOT BE INCISED. IF INCISED LUMBER IS TO BE USED, CONFIRM MEMBER SIZES WITH THE ENGINEER PRIOR TO CONSTRUCTION.
d. ALL JOISTS, LINTELS AND BUILT-UP BEAMS COMPRISED OF "2-BY-" SAWN LUMBER MUST BEAR FULLY 38mm MINIMUM ON THE SUPPORT SURFACE. IF HANGERS ARE USED, THEY MUST ADEQUATELY SUPPORT THE FULL SHEAR CAPACITY OF THE MEMBER, UNLESS NOTED OTHERWISE.
e. ENGINEERED WOOD TRUSSES
   i) THE WOOD TRUSS SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF ALL TEMPORARY AND PERMANENT BRACING REQUIRED FOR THE STABILITY OF THE TRUSSES.
   ii) ERECT TRUSSES IN CONFORMANCE WITH THE GUIDELINES PRODUCED BY TPIC IN THE DOCUMENT "HANDLING, ERECTION AND BRACING OF WOOD TRUSSES"
   iii) BRACING OF TRUSSES FOR STABILITY MUST BE TERMINATED IN A DIAPHRAGM OR SHEAR WALL. BRACING IS NOT TO BE TIED INTO MID-HEIGHT OF A WALL OR IN ANY LOCATION THAT RESULTS IN BENDING OF STRUCTURAL MEMBERS.

010003 NOTABLE SUBMITTALS

1. GENERAL REVIEW BY COMPONENT ENGINEERS
   a. COMPONENT ENGINEERS ARE RESPONSIBLE FOR GENERAL REVIEW OF CONSTRUCTION FOR THE PORTION OF THE WORK PREPARED UNDER THEIR PROFESSIONAL SEALS, THEY SHALL PROVIDE;
      i) REPORTS FOR EACH SITE VISIT
      ii) A PROJECT COMPLETION NOTICE
   b. ENGINEERED COMPONENTS INCLUDE; *PRECAST CONCRETE, *OPEN WEB STEEL JOISTS, *METAL DECK, *STEEL CONNECTIONS, *WOOD CONNECTIONS, *PRE-ENGINEERED STEEL BUILDINGS, *DEEP FOUNDATIONS, *MISCELLANEOUS METALS, *STRUCTURAL GLASS, *WIND BEARING METAL STUD WALLS, *LOAD BEARING METAL STUD WALLS, *ROD AND CABLE SYSTEMS, *HELICAL PIERS, *GEOPIERS, *MICROPILES.

010004 SUBMITTALS

1. GEOMETRY
   a. SUBMIT SURVEY RECORDS CONFIRMING THAT THE BUILT GEOMETRY MATCHES THE DESIGN GEOMETRY.
2. CONCRETE AND REINFORCEMENT
   a. SUBMIT REINFORCING PLACING DRAWINGS AND BAR LISTS FOR REVIEW BY THE CONSULTANT.
   b. PROVIDE TEST CYLINDERS IN ACCORDANCE WITH APPLICABLE ASTM STANDARDS
3. STRUCTURAL STEEL
   a. DESIGN DETAILS, CONNECTIONS, AND THE LIKE IN ACCORDANCE WITH THE IBC AND AISC FOR THE FORCES SHOWN ON THE DRAWINGS.
   b. SUBMIT SKETCHES AND DESIGN CALCULATIONS STAMPED AND SIGNED BY QUALIFIED PROFESSIONAL ENGINEER LICENSED IN PROVINCE OF ONTARIO FOR NON STANDARD CONNECTIONS.
   c. SUBMIT SHOP, ERECTION, AND SETTING DRAWINGS FOR REVIEW BY THE CONSULTANT.
   d. ENSURE FABRICATOR DRAWINGS SHOWING DESIGNED ASSEMBLIES, COMPONENTS AND CONNECTIONS ARE STAMPED AND SIGNED BY QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF UTAH.

Blackwell
19 Duncan St. #405, Toronto, M5H 3H1 T 416.539.1300 | 31 King St. N., 2nd Fl., Waterloo, N2J 2W8 T 519.616.0895 | blackwell.ca

REVIEWED AND SEALED BY:

PROFESSIONAL STRUCTURAL ENGINEER
No. 6985627 2203
MICHAEL F SULLAWAY
STATE OF UTAH

SULLAWAY
ENGINEERING
10815 RANCHO BERNARDO ROAD
SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullawayeng.com

MARK	DATE	DESCRIPTION
	2016.10.14	FOUNDATIONS ONLY PERMIT

ISSUE: 2016.10.05

Project Name
SUMMIT CABINS
1500SF UNIT

Address
EDEN
UTAH

File Name	CAD/BIM Program
	AUTOCAD
Drawn by: AVB	Checked by: N/A
Scale: AS NOTED	Project #: 160063

Sheet Title
GENERAL NOTES

S-001

ABBREVIATIONS 0001

A.BOLT	=	ANCHOR BOLT	kN	=	KILONEWTON
ADJ.	=	ADJUSTABLE	kg	=	KILOGRAM
ALT.	=	ALTERNATE	kN.m	=	KILONEWTON METRES
ARCH.	=	ARCHITECTURAL	kN/sq.m	=	KILONEWTON PER SQUARE METRE
			kN/m	=	KILONEWTON PER METRE
B	=	BOTTOM	L.L.	=	LIVE LOAD
BLL	=	BOTTOM LOWER LAYER	LG.	=	LONG
BUL	=	BOTTOM UPPER LAYER	LLV.	=	LONG LEG VERTICAL
BLDG.	=	BUILDING	LLH.	=	LONG LEG HORIZONTAL
BM.	=	BEAM			
BR.	=	BASE OR BEARING PLATE			
BSMT.	=	BASEMENT	MAX.	=	MAXIMUM
			MECH.	=	MECHANICAL
CA	=	COLUMN ABOVE	MEZZ.	=	MEZZANINE
C/C	=	CENTRE TO CENTRE	MIN.	=	MINIMUM
℄	=	CENTRE LINE	MISC.	=	MISCELLANEOUS
CANT.	=	CANTILEVER	ML	=	MIDDLE LAYER
COL.	=	COLUMN	mm	=	MILLIMETRE
CONC.	=	CONCRETE	MOM.	=	MOMENT
CONSTR.	=	CONSTRUCTION	m	=	METRIC METRE
CONT.	=	CONTINUOUS	MPa	=	MEGAPASCAL
c/w	=	COMPLETE WITH	Mf	=	FACTORED MOMENT
			N	=	NEWTONS
DET.	=	DETAIL	N.F.	=	NEAR FACE
DIAG.	=	DIAGONAL	N-S	=	NORTH-SOUTH
DIA.	=	DIAMETER	NTS.	=	NOT TO SCALE
Ø	=	DIAMETER, BAR DIAMETER			
DIM.	=	DIMENSION	OWSJ	=	OPEN WEB STEEL JOISTS
D.J.	=	DOUBLE JOIST	OPEN	=	OPENING
DO.	=	DITTO			
D.L.	=	DEAD LOAD	PL.	=	PLATE
DWG.	=	DRAWING	P.C.	=	PRECAST
DWL.	=	DOWEL	PROJ.	=	PROJECTION
EA.	=	EACH	R	=	REACTION
EA.F.	=	EACH FACE	RAD	=	RADIUS
EA.W.	=	EACH WAY	REF.	=	REFERENCE
EL.	=	ELEVATION	REINF.	=	REINFORCING,REINFORCEMENT
ELECT.	=	ELECTRICAL	REQ'D	=	REQUIRED
ELEV.	=	ELEVATOR	REV.	=	REVISION,REVISED
E-W	=	EAST-WEST	r/w	=	REINFORCED WITH
EQ.	=	EQUAL			
EXIST.	=	EXISTING	SECT.	=	SECTION
EXP.J.	=	EXPANSION JOINT	SDF	=	STEP DOWN FOOTING
EXT.	=	EXTERIOR	SL.	=	SLAB
			SPEC'S.	=	SPECIFICATIONS
F.F.	=	FAR FACE	STD.	=	STANDARD
FDN.	=	FOUNDATION	SQ.	=	SQUARE
FIN.	=	FINISHED	STRUCT.	=	STRUCTURAL
FL.	=	FLOOR			
FTG.	=	FOOTING	T	=	TOP
			T.J.	=	TIE JOIST
GA.	=	GAUGE	TLL	=	TOP LOWER LAYER
GALV.	=	GALVANIZED	TUL	=	TOP UPPER LAYER
GEN.	=	GENERAL	TEMP.	=	TEMPERATURE
			TYP.	=	TYPICAL
			U/N	=	UNLESS OTHERWISE NOTED
H. HOR.	=	HORIZONTAL	U/S	=	UNDERSIDE
HH	=	HOOKED EACH END			
			V/	=	FACTORED SHEAR FORCE
INT.	=	INTERIOR	V. VERT.	=	VERTICAL
			WWF	=	WELDED WIRE FABRIC
JT.	=	JOINT	w/	=	WITH
			wD; wL	=	UNIFORMLY DISTRIBUTED LOADS

REINFORCEMENT DEVELOPMENT LENGTHS 0301

TABLE 1 - TENSION DEVELOPMENT LENGTH (in)

BAR SIZE	f'c 2900psi	3626psi	4352psi	5077psi	5802psi
4	12,6	11,8	11,8	11,8	11,8
5	18,9	16,9	15,4	14,6	13,4
6	25,2	22,8	20,9	19,3	18,1
8	39,8	35,4	32,3	29,9	28,0
9	47,6	42,5	39,0	35,8	33,5
11	55,5	49,6	45,3	41,7	39,4
14	71,7	63,8	58,3	53,9	50,8
18	87,4	78,0	71,3	66,1	61,8

TABLE 2 - TENSION LAP SPLICE (CLASS B) LENGTH (in)

BAR SIZE	f'c 2900psi	3626psi	4352psi	5077psi	5802psi
4	16,5	15,0	13,4	12,4	11,8
5	24,8	22,0	20,1	19,1	17,5
6	33,1	29,7	27,2	25,2	23,6
8	51,8	46,1	42,1	39,0	36,4
9	54,1	55,3	50,8	46,5	43,5
11	72,4	64,6	58,9	55,3	51,2
14	LAP SPLICES NOT PERMITTED				
18					

TABLE 3 - DEVELOPMENT LENGTH (in) FOR STANDARD HOOKS.

BAR SIZE	f'c 2900psi	3626psi	4352psi	5077psi	5802psi
4	6,1	5,9	5,9	5,9	5,9
5	9,4	8,3	7,5	6,9	6,7
6	12,4	11,0	10,2	9,4	8,9
8	15,4	13,8	12,6	11,6	11,0
9	18,5	16,5	15,2	14,2	13,0
11	21,7	16,9	17,7	16,3	15,2
14	38,5	34,4	31,4	29,1	27,2
18	49,6	44,4	40,6	37,5	35,1

TABLE 4 - COMPRESSION DEVELOPMENT LENGTH (in)

BAR SIZE	f'c=2900psi	f'c=3626psi	f'c≥ 4352psi
4	8,3	7,9	7,9
5	12,6	11,4	10,2
6	16,9	15,0	13,8
8	21,3	18,9	17,3
9	25,2	22,8	20,9
11	29,5	26,4	24,4
14	38,2	33,9	31,1
18	46,5	41,7	38,2

TABLE 5 - COMPRESSION LAP SPLICE LENGTH (in)

BAR SIZE	USUAL CONFINEMENT
4	11,8
5	17,3
6	22,8
8	28,7
9	34,6
11	40,2

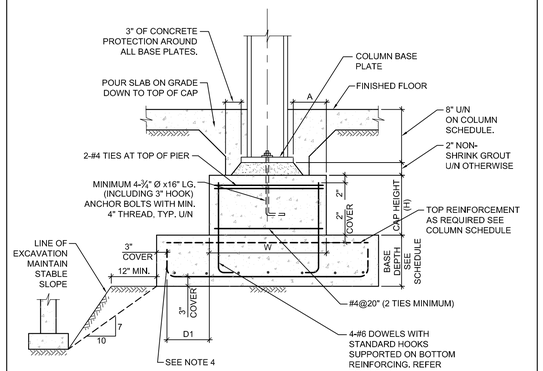
NOTE: #14 AND #18 BARS SHALL BE SPLICED WITH MECHANICAL CONNECTORS

TABLE 6 - STANDARD HOOK DIMENSION FOR BLACK REINFORCING.

	400R OR 500R		400W OR 500W	
BAR SIZE	90° HOOK (in)	180° HOOK (in)	90° HOOK (in)	180° HOOK (in)
4	7,1	5,5	7,1	5,1
5	10,2	7,1	9,8	6,7
6	12,2	8,7	11,8	7,9
8	15,7	11,0	15,7	11,0
9	20,1	15,7	19,3	13,8
11	24,0	18,9	23,2	16,9
14	31,1	26,8	30,3	24,4
18	40,6	35,4	39,8	32,7

REFER TO REINFORCING STEEL MANUAL OF STANDARD PRACTICE FOR MORE INFORMATION.

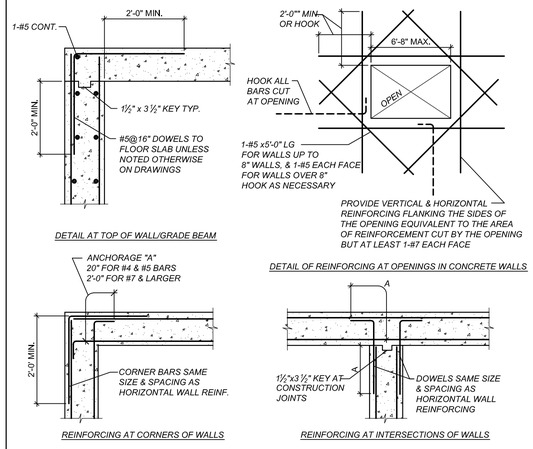
FOOTINGS AND BASES FOR STEEL COLUMNS 0303



NOTE:

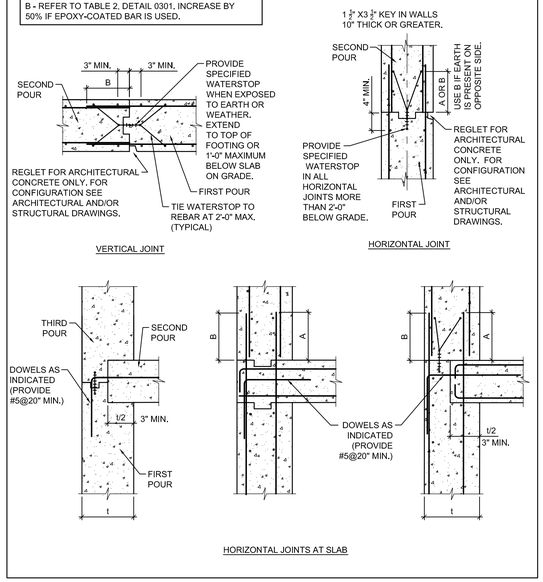
1. WHERE RATIO OF CAP HEIGHT TO CAP WIDTH (H/W) EXCEEDS 3, PROVIDE 0.5% VERTICAL STEEL (8-#6 MINIMUM) WITH #4 TIES SPACED AT THE LESSER OF 20" o/c OR THE LEAST CAP DIMENSION (2 TIES MINIMUM).
2. HEIGHT (H) OF CAP SHALL BE A MINIMUM OF 2 X PROJECTION (A) BUT NOT LESS THAN 8".
3. SEE COLUMN SCHEDULE FOR ADDITIONAL REQUIREMENTS.
4. IF D1 IS LESS THAN THE TENSION DEVELOPMENT LENGTH FOR THE SPECIFIED BAR (REFER TO TABLE 1, DETAIL 0301), PROVIDE STANDARD HOOK.
5. TIE ARRANGEMENT IN PIERS AS PER TYPICAL DETAIL 0329.

CONCRETE WALLS, PITS AND TRENCHES 0312



CONSTRUCTION JOINTS IN WALLS 0314

SPLICE LENGTHS
A - REFER TO TABLE 5, DETAIL 0301
B - REFER TO TABLE 2, DETAIL 0301, INCREASE BY 50% IF EPOXY-COATED BAR IS USED.



Blackwell

NOTE:

THIS DRAWING IS THE PROPERTY OF BLACKWELL AND MAY NOT BE REPRODUCED OR USED WITHOUT THE EXPRESSED CONSENT OF BLACKWELL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPENCIES TO BLACKWELL AND OBTAIN CLARIFICATION PRIOR TO COMMENCING WORK.

REVIEWED AND SEALED BY:

PROFESSIONAL STRUCTURAL ENGINEER No. 6985627-2203 MICHAEL F. SULLAWAY STATE OF UTAH

SULLAWAY ENGINEERING
10815 RANCHO BERNARDO ROAD SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullawayeng.com

19 Duncan St., #405, Toronto, M5H 3H1 | T 416.593.1500 | 31 King St. N., 2nd Fl., Waterloo, N2J 2W9, T 519.616.0895 | blackwell.ca

	2016.10.14	FOUNDATIONS ONLY PERMIT
MARK	DATE	DESCRIPTION
ISSUE:	2016.10.14	

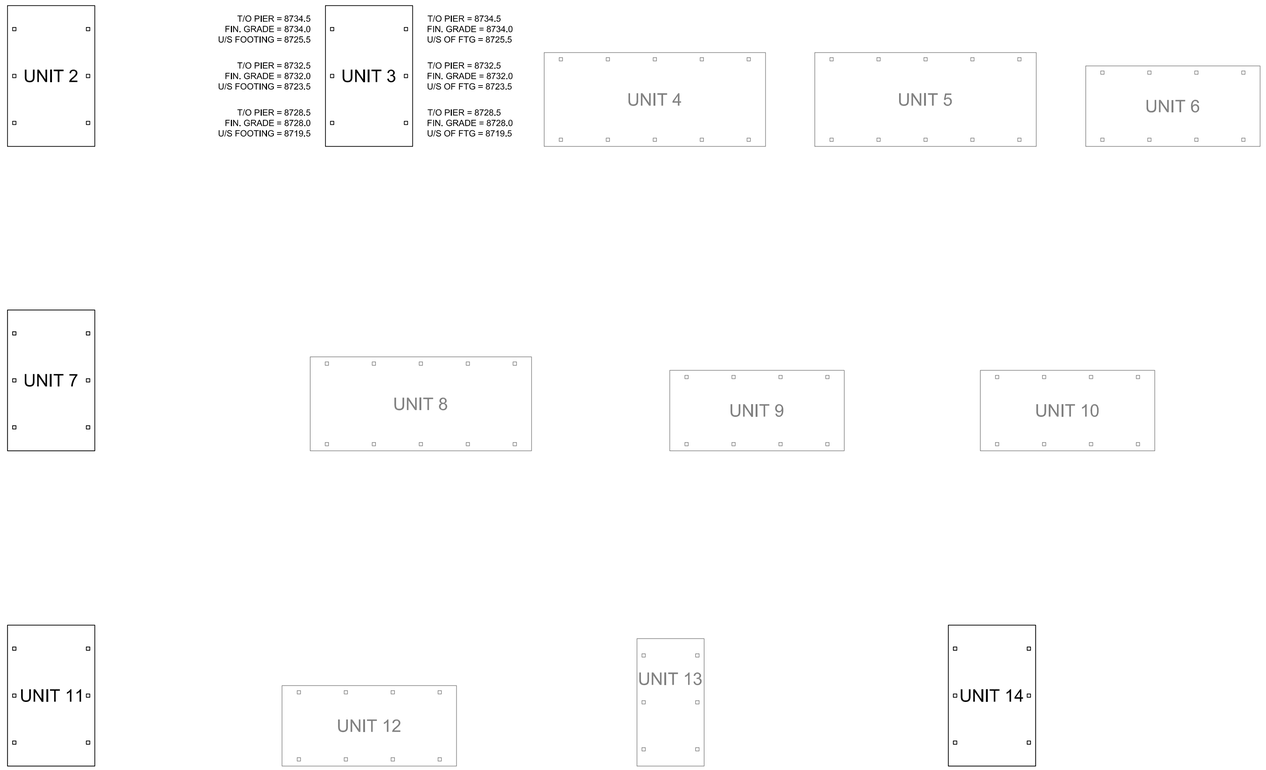
Project Name
SUMMIT CABINS
1500SF UNIT

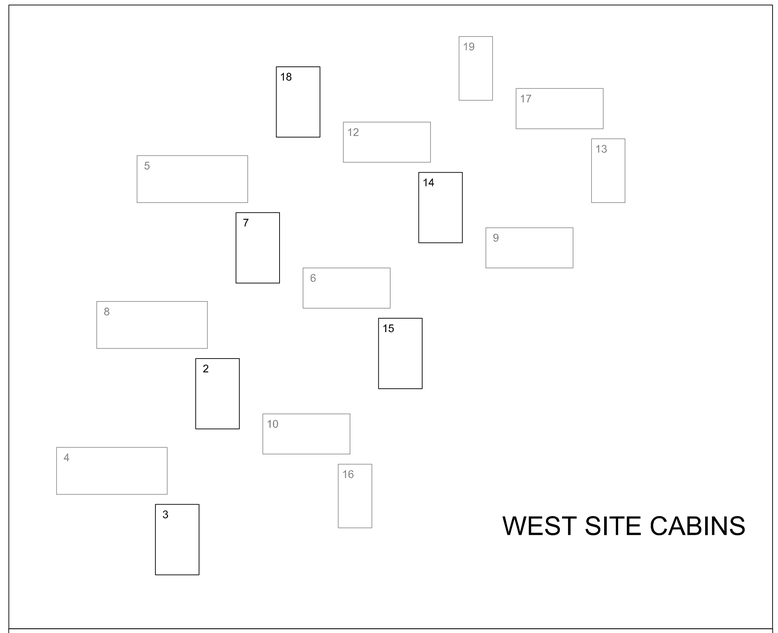
Address
EDEN
UTAH

File Name	CAD/BIM Program: AUTOCAD
Drawn by: AVB	Checked by: N/A
Scale: AS NOTED	Project #: 160063

Sheet Title
TYPICAL DETAILS
FOUNDATIONS

S-002





1 S-010 SITE PLAN WITH FOOTING ELEVATIONS N.T.S

NOTES:

1. ALL ELEVATIONS SHOWN ON PLAN ARE GIVEN IN FEET.
2. ALL ELEVATIONS ARE GIVEN RELATIVE TO THE CENTER OF FOOTING/PIERS

Blackwell

NOTE:

THIS DRAWING IS THE PROPERTY OF BLACKWELL AND MAY NOT BE REPRODUCED OR USED WITHOUT THE EXPRESSED CONSENT OF BLACKWELL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPENCIES TO BLACKWELL AND OBTAIN CLARIFICATION PRIOR TO COMMENCING WORK.

REVIEWED AND SEALED BY:

PROFESSIONAL STRUCTURAL ENGINEER
No. 6985627-2203
MICHAEL F SULLAWAY
STATE OF UTAH

SULLAWAY
ENGINEERING
10815 RANCHO BERNARDO ROAD
SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullawayeng.com

19 Duncan St., #405, Toronto, M5H 3H1 T 416.593.1500 | 31 King St., N., 2nd Fl., Waterloo, N2J 2W6 T 519.616.0895 | blackwell.ca

MARK	DATE	DESCRIPTION
	2016.10.14	FOUNDATIONS ONLY PERMIT

ISSUE: 2016.10.14

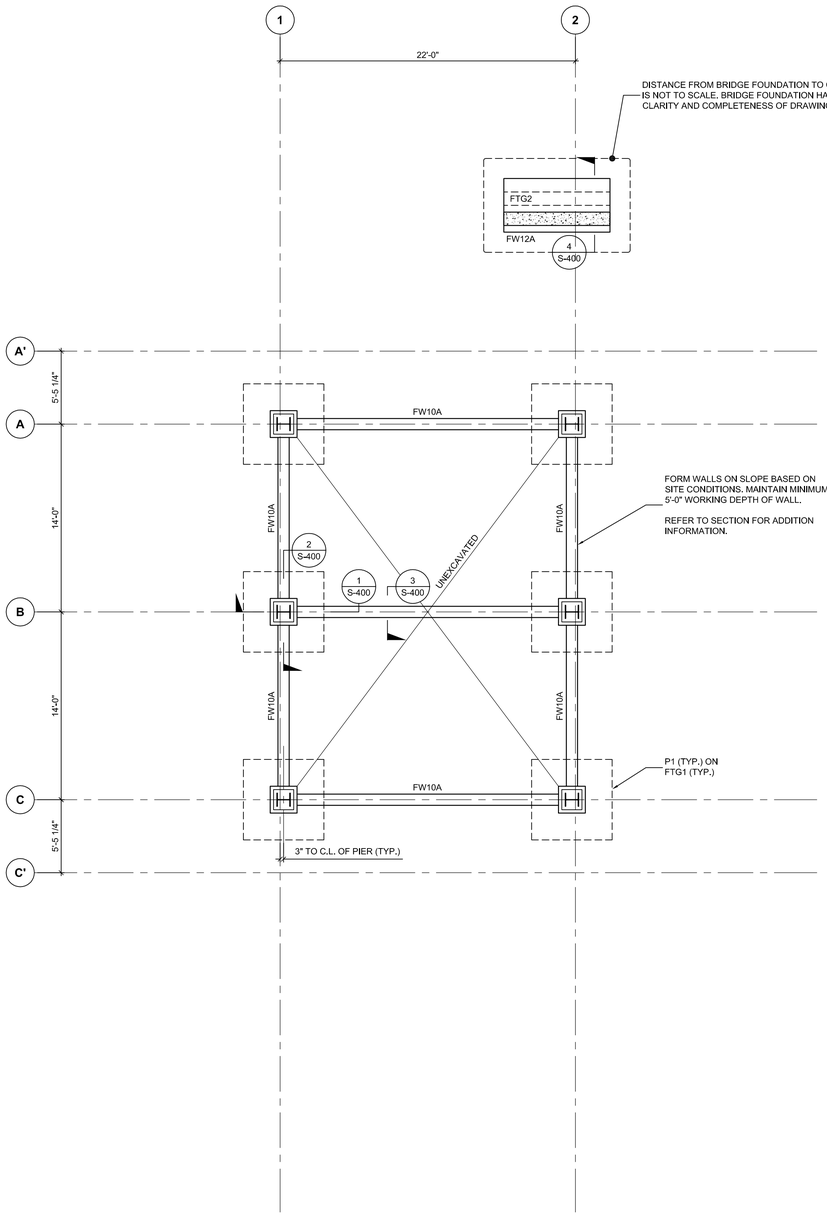
Project Name
SUMMIT CABINS
1500 SQFT UNIT

Address
EDEN
UTAH

File Name	CAD/BIM Program
	AUTOCAD
Drawn by	Checked by
AVB	N/A
Scale	Project #
AS NOTED	160063

Sheet Title
SITE PLAN

S-010



1 S-100 FOUNDATION PLAN
3/16" = 1'-0"

NOTES:

1. A GEOTECHNICAL REPORT HAS BEEN PREPARED BY IGES INC. CONTRACTOR IS TO READ THE REPORT AND BECOME FRAMILIAR WITH ITS CONTENTS.
2. SHALLOW FOUNDATIONS HAVE BEEN DESIGNED WITH AN ALLOWABLE BEARING CAPACITY OF 2,600psf AS PER IGES RECCOMENDATIONS
3. IN AREAS OF CREEP SUSCEPTIBLE SOIL, STRIP SITE AND REMEDIATE AS PER GEOTECHNICAL RECCOMENDATIONS.
4. NO FOOTINGS ARE TO BE CAST WITHOUT PRIOR APPROVAL FROM THE GEOTCHNICAL CONSULTANT.
5. REFER TO GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION

FOUNDATION MEMBER SCHEDULE		
MEMBER MARK	MEMBER DESCRIPTION	REMARKS
FW10A	10" CONCRETE FOUNDATION WALL	r/w #5 BARS @ 12" c/c EACH WAY EACH FACE. HOOK TOPS AND BOTTOMS OF VERTICAL BARS. CONSTRUCT WALLS ON SLOPE.
FW12A	12" CONCRETE FOUNDATION WALL	r/w #5 BARS @ 10" c/c EACH WAY EACH FACE. PROVIDE 1'0" x 3'-0" HOOKED DOWELS FROM OUTSIDE FACE OF WALL TO FOOTING BELOW.
FTG1	6'-0" x 6'-0" x 1'-2" CONC. PAD FOOTING	r/w 5 #5 BOTTOM BARS EACH WAY.
FTG2	8'-0" x 4'-0" x 1'-0" CONC. PAD FOOTING	r/w #5 BARS @ 9" c/c EACH WAY EACH FACE TOP BARS
P1	2'-0" x 2'-0" CONC. PIER	r/w 12 #7 BARS AND #3 STIRRUPS AT 12" c/c

NOTES:

1. PROVIDE CONSULTANT WITH REINFORCING SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.

Blackwell

REVIEWED AND SEALED BY:

PROFESSIONAL STRUCTURAL ENGINEER
No. 6985527-2203
MICHAEL F. SULLAWAY
STATE OF UTAH

SULLAWAY
ENGINEERING
10815 RANCHO BERNARDO ROAD
SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullawayeng.com

19 Duncan St., #405, Toronto, M5H 3H1 | T 416.593.5300 | 31 King St., N., 2nd Fl., Waterloo, N2J 2W8 | T 519.616.0895 | blackwell.ca

MARK	DATE	DESCRIPTION
	2016.10.14	FOUNDATIONS ONLY PERMIT

ISSUE: 2016.10.14

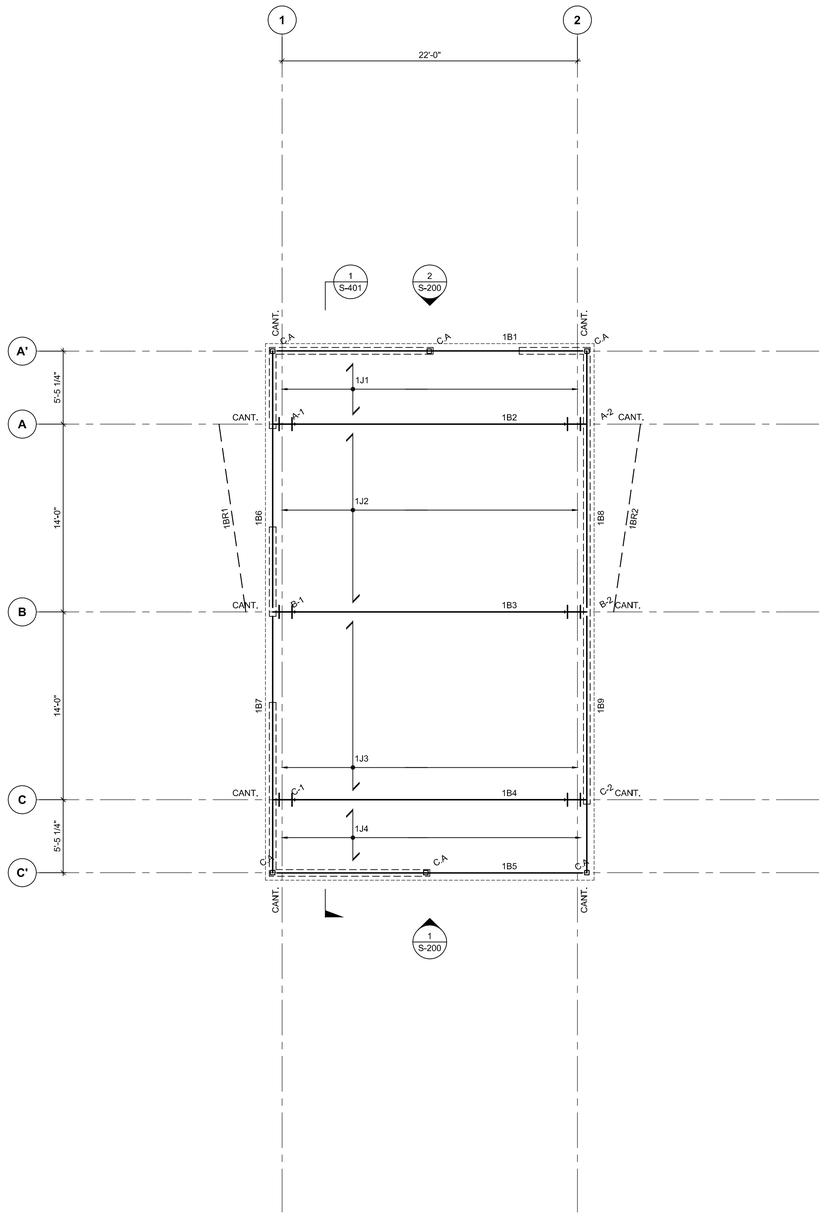
Project Name
SUMMIT CABINS
1500 SQFT UNIT

Address
EDEN
UTAH

File Name	CAD/BIM Program
	AUTOCAD
Drawn by: AVB	Checked by: N/A
Scale: AS NOTED	Project #: 160063

Sheet Title
FOUNDATION PLAN

S-100



1 S-101 LOWER LEVEL FLOOR FRAMING
3/16" = 1'-0"

NOTES:

1. LOADS USED IN DESIGN: LIVE LOAD: 40psf
   DEAD LOAD: 40psf (AREAS OF 2" TOPPING)
2. ALL FLOOR SHEATHING TO BE ¾" SHEATHING T&G GLUED AND SCREWED TO TOP OF FLOOR JOISTS.
3. THE LOWER LEVEL FRAMING DATUM IS TAKEN AS T/O FINISHED FLOOR @ 0'-0". TOP OF STEEL BEAMS ARE AT -1'-1½" UNLESS NOTED OTHERWISE.
4. REFER TO GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION

LOWER FLOOR MEMBER SCHEDULE

MEMBER MARK	MEMBER DESCRIPTION	REACTIONS		REMARKS
		LEFT END	RIGHT END	
1J1	2 x 10 @ 12" c/c			
1J2	2 x 10 @ 12" c/c			
1J3	2 x 10 @ 12" c/c			
1J4	2 x 10 @ 12" c/c			
1B1	W12x26			
1B2	W12x50			
1B3	W12x50			
1B4	W12x50			
1B5	W12x26			
1B6	W12x26			
1B7	W12x26			
1B8	W12x26			
1B9	W12x26			
1BR1	HSS 4"x4"x¼"			
1BR2	HSS 4"x4"x¼"			

DRAWING PROVIDED FOR CONTEXT ONLY.
SUPERSTRUCTURE PERMIT PACKAGE TO FOLLOW.

Blackwell

REVIEWED AND SEALED BY:

SULLAWAY
ENGINEERING
10815 RANCHO BERNARDO ROAD
SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullivayeng.com

19 Duncan St. #405, Toronto, M5H 3H1 T 416.593.1300 | 31 King St. N., 2nd Fl., Waterloo, N2J 2W8 T 519.616.0895 | blackwell.ca

MARK	DATE	DESCRIPTION
	2016.10.14	FOUNDATIONS ONLY PERMIT

ISSUE: 2016.10.14

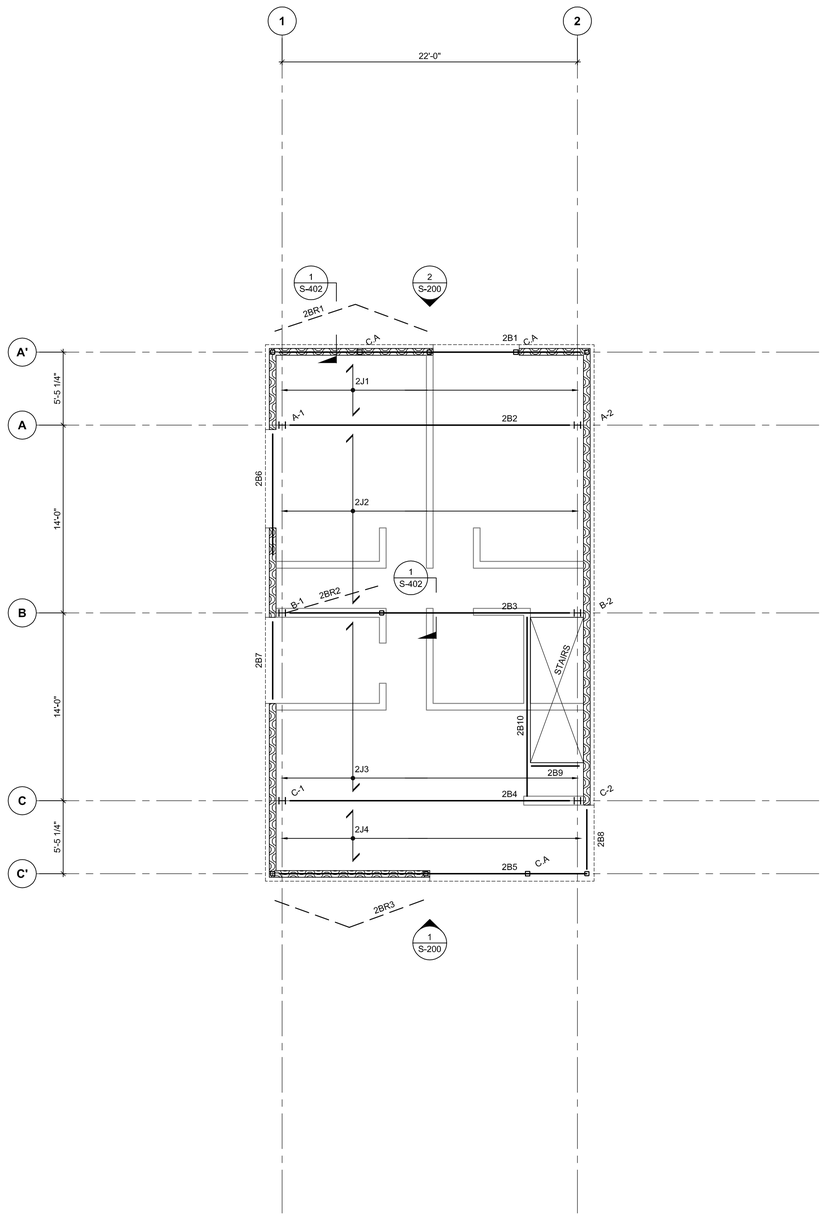
Project Name
SUMMIT CABINS
1500 SQFT UNIT

Address
EDEN
UTAH

File Name	CAD/BIM Program
	AUTOCAD
Drawn by: AVB	Checked by: N/A
Scale: AS NOTED	Project #: 160063

Sheet Title
LOWER FLOOR FRAMING PLAN

S-101



1 S-102 LOWER LEVEL SHOWING UPPER FLOOR FRAMING
3/16" = 1'-0"

NOTES:

1. LOADS USED IN DESIGN: LIVE LOAD: 40psf
   DEAD LOAD: 40psf (AREAS OF 2" TOPPING)
   20psf (EXTERIOR DECK)
   SNOW LOAD: 192psf (EXTERIOR DECK)
2. ALL FLOOR SHEATHING TO BE ¾" SHEATHING T&G GLUED AND SCREWED TO TOP OF FLOOR JOISTS.
3. THE UPPER LEVEL FRAMING DATUM IS TAKEN AS T/O FINISHED FLOOR @ 9'-7" ABOVE THE LOWER LEVEL FINISHED FLOOR ELEVATION. TOP OF STEEL BEAMS ARE AT -4½" UNLESS NOTED OTHERWISE.
4. REFER TO GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION

UPPER FLOOR MEMBER SCHEDULE

MEMBER MARK	MEMBER DESCRIPTION	REACTIONS		REMARKS
		LEFT END	RIGHT END	
2J1	2 x 10 @ 12" c/c OR 2x12 @ 16" c/c			
2J2	2 x 10 @ 12" c/c OR 2x12 @ 16" c/c			
2J3	2 x 10 @ 12" c/c OR 2x12 @ 16" c/c			
2J4	2 x 10 @ 12" c/c OR 2x12 @ 16" c/c			
2B1	W12x22			
2B2	W12x26			
2B3	W12x26			
2B4	W12x26			
2B5	W12x22			
2B6	3-2x12			EXTEND BEYOND BEARING LOCATION TO GRID B + 2'-0"
2B7	3-2x12			
2B8	3-2x12			
2B9	2-2x12			
2B10	3-2x12			
2BR1	HSS 4"x3"x¼"			
2BR2	HSS 4"x3"x¼"			
2BR3	HSS 4"x3"x¼"			

DRAWING PROVIDED FOR CONTEXT ONLY.
SUPERSTRUCTURE PERMIT PACKAGE TO FOLLOW.

Blackwell

NOTE:

THIS DRAWING IS THE PROPERTY OF BLACKWELL AND MAY NOT BE REPRODUCED OR USED WITHOUT THE EXPRESSED CONSENT OF BLACKWELL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPENCIES TO BLACKWELL AND OBTAIN CLARIFICATION PRIOR TO COMMENCING WORK.

REVIEWED AND SEALED BY:

SULLAWAY
ENGINEERING
10815 RANCHO BERNARDO ROAD
SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullawayeng.com

19 Duncan St., #405, Toronto, M5H 3H1 **T 416.593.1300** | 31 King St., N., 2nd Fl., Waterloo, N2J 2W8 **T 519.616.0895** | blackwell.ca

MARK	DATE	DESCRIPTION
	2016.10.14	FOUNDATIONS ONLY PERMIT

ISSUE: 2016.10.14

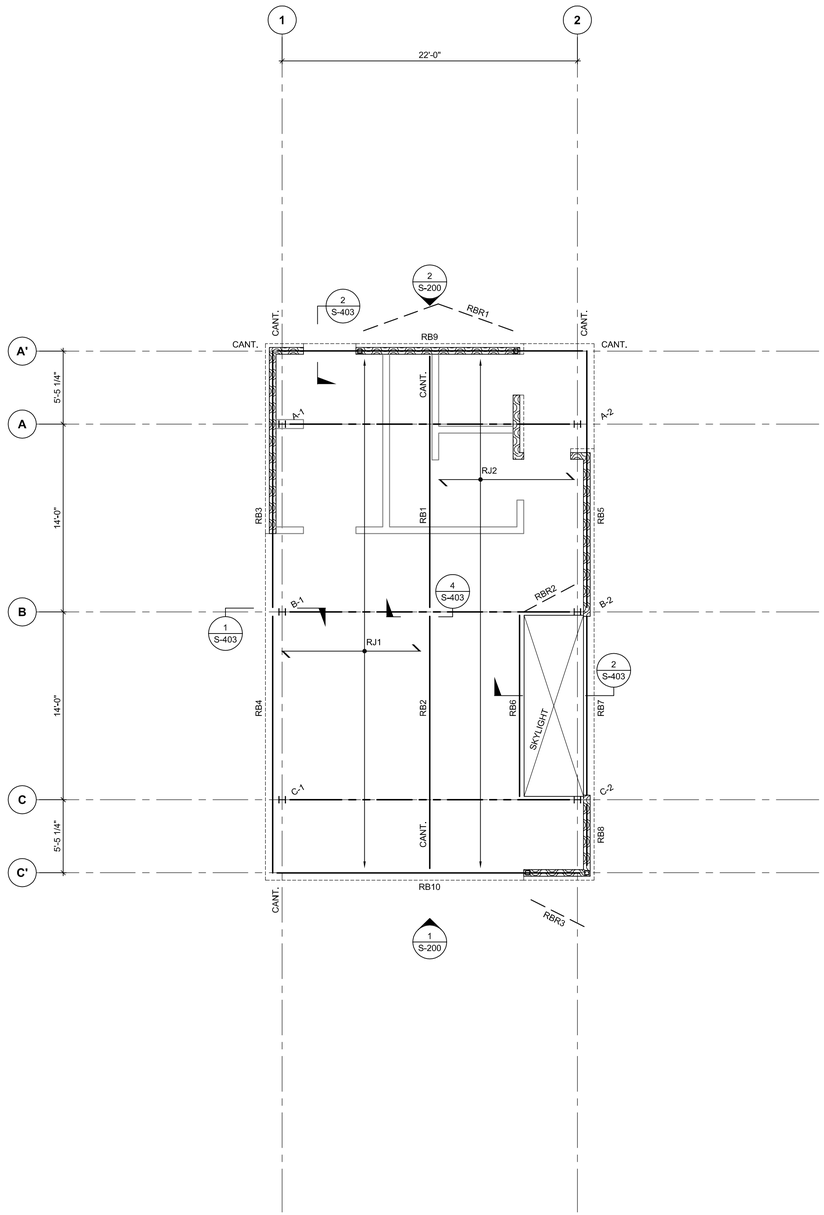
Project Name
SUMMIT CABINS
1500 SQFT UNIT

Address
EDEN
UTAH

File Name	CAD/BIM Program
	AUTOCAD
Drawn by: AVB	Checked by: N/A
Scale: AS NOTED	Project #: 160063

Sheet Title
UPPER FLOOR FRAMING PLAN

S-102



1 / S-103 UPPER LEVEL SHOWING ROOF FRAMING
3/16" = 1'-0"

NOTES:

1. LOADS USED IN DESIGN: SNOW LOAD: 192psf
   DEAD LOAD: 15psf + SELF WEIGHT OF COMPONENTS
2. ALL ROOF SHEATHING TO BE ¾" SHEATHING T&G GLUED AND SCREWED TO TOP OF FLOOR JOISTS.
3. THE ROOF FRAMING DATUM IS TAKEN AS THE U/S OF FLAT CEILING FRAMING @ 16'-6" ABOVE THE LOWER LEVEL FINISHED FLOOR ELEVATION, TOP OF STEEL BEAMS ARE AT +11½" UNLESS NOTED OTHERWISE.
4. REFER TO GENERAL NOTES AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION

ROOF MEMBER SCHEDULE				
MEMBER MARK	MEMBER DESCRIPTION	REACTIONS		REMARKS
		LEFT END	RIGHT END	
RJ1	2 - 2 x 10 @ 12" c/c			
RJ2	2 - 2 x 10 @ 12" c/c			
RB1	W8x48			
RB2	W8x48			
RB3	HSS 10"x6"x5/16" LLV			
RB4	HSS 10"x6"x5/16" LLV			
RB5	HSS 10"x6"x5/16" LLV			
RB6	HSS 10"x6"x5/16" LLV			
RB7	HSS 10"x6"x5/16" LLV			
RB8	HSS 10"x6"x5/16" LLV			
RB9	HSS 10"x6"x5/16" LLV			
RB10	HSS 10"x6"x5/16" LLV			
RBR1	HSS 4"x3"x¼" CHEVRON BRACE			
RBR2	2-L3½"x2½"x⅜" ANGLES BACK-TO-BACK			
RBR3	HSS 4"x3"x¼" ANGLE BRACE			

NOTES:

1. ALL WOOD CONNECTORS ARE TO BE BY SIMPSON STRONG TIE. PROVIDE CONSULTANT WITH FULL SPEC. OF ALTERNATE HANGERS FOR APPROVAL PRIOR TO USE.
2. ALL LOADS HAVE BEEN FACTORED IN ACCORDANCE WITH IBC 2016 LOAD CASES.
3. PROVIDE 3" MINUMUM BEARING FOR ALL WOOD BEAMS ON WOOD FRAMED WALLS UNLESS NOTED OTHERWISE.

DRAWING LEGEND	
BEAM MEMBERS	
TRUSS ELEMENTS	
COLUMNS (CHANNELS & I BEAMS)	H
REPEAT FRAMING ELEMENTS (SPAN)	
REPEAT FRAMING ELEMENTS (EXTENT)	
COLUMN (HSS)	
WOOD STUD WALLS/ SHEARWALLS	
WALLS (NON-LOAD BEARING)	
COLUMN (WOOD)	
COLUMN ABOVE (WITHIN BEAM SPAN)	C.A
STUD WALLS ABOVE	
LATERAL BRACING	
BEAM CANTILEVERS	CANT.
MOMENT CONNECTIONS	
WOOD SHEARWALL (EXTENTS)	SW
EXTENT OF FINISHES	

DRAWING PROVIDED FOR CONTEXT ONLY.
SUPERSTRUCTURE PERMIT PACKAGE TO FOLLOW.

Blackwell

REVIEWED AND SEALED BY:

SULLAWAY
ENGINEERING
10815 RANCHO BERNARDO ROAD
SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullawayeng.com

19 Duncan St. #405, Toronto, M5H 3H1 T 416.593.1300 | 31 King St. N., 2nd Fl., Waterloo, N2J 2W6 T 519.616.0895 | blackwell.ca

	2016.10.14	FOUNDATIONS ONLY PERMIT
MARK	DATE	DESCRIPTION

ISSUE: 2016.10.14

Project Name
SUMMIT CABINS
1500 SQFT UNIT

Address
EDEN
UTAH

File Name	CAD/BIM Program
	AUTOCAD
Drawn by	Checked by
AVB	N/A
Scale	Project #
AS NOTED	160063

Sheet Title
ROOF FRAMING PLAN

S-103

COLUMN AND FOOTING SCHEDULE

COLUMN DATA	A'-1(+5'-9½")	A' - 1(-4'-7")	A - 1	A - 2	B - 1	B - 2	C - 1	C - 2	C' - 2(-3'-8½")	C' - 2(-3'-8½")	C' - 2(+8½")	A' - 1(-8½")	A' - 1(+10-11½")	A' - 2(+8½")	B - 1(7'-5")	C' - 1(-8½")	C' - 1(+10'-8½")	C' - 2(+8½")
TOP OF STEEL (17'-5½")			9 1/2"	9 1/2"	9 1/2"	9 1/2"	9 1/2"	9 1/2"										
Mf (Kip-ft)																		
Cf (Kip)	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX	XX
Mf (Kip-ft) UPPER FLOOR (FF: 9'-6")	HSS 4x4x½"	HSS 4x4x½"	2-MC6x16.3	2-MC6x16.3	2-MC6x16.3	2-MC6x16.3	2-MC6x16.3	2-MC6x16.3	HSS 4x4x½"	HSS 4x4x½"	HSS 4x4x½"	HSS 4x4x½"	HSS 4x4x½"	HSS 4x4x½"	HSS 4x4x½"	HSS 4x4x½"	HSS 4x4x½"	HSS 4x4x½"
Mf (Kip-ft)																		
Cf (Kip)			XX	XX	XX	XX	XX	XX				XX	XX	XX	XX	XX	XX	XX
Mf (Kip-ft) LOWER FLOOR (FF: 0'-0")																		
Mf (Kip-ft)			XX	XX	XX	XX	XX	XX										
Cf (Kip)			XX	XX	XX	XX	XX	XX										
Mf (Kip-ft) T/O PIER (VARIES)			W12x50 2"	W12x50 2"	W12x50 2"	W12x50 2"	W12x50 2"	W12x50 2"										
U/S BASEPLATE FROM T/O PIER																		
BASEPLATE																		

NOTES:

1. CENTRE COLUMNS CAPS AND FOOTINGS ON GRIDS UNLESS NOTED OTHERWISE
2. UNLESS OTHERWISE NOTED, BASEPLATE DIMENSION GIVEN FIRST IS PARALLEL TO THE COLUMN WEB.

Blackwell

REVIEWED AND SEALED BY:

SULLAWAY
ENGINEERING
10815 RANCHO BERNARDO ROAD
SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullawayeng.com

MARK	DATE	DESCRIPTION
	2016.10.14	FOUNDATIONS ONLY PERMIT

ISSUE: 2016.10.14

Project Name
SUMMIT CABINS
1500 SQFT UNIT

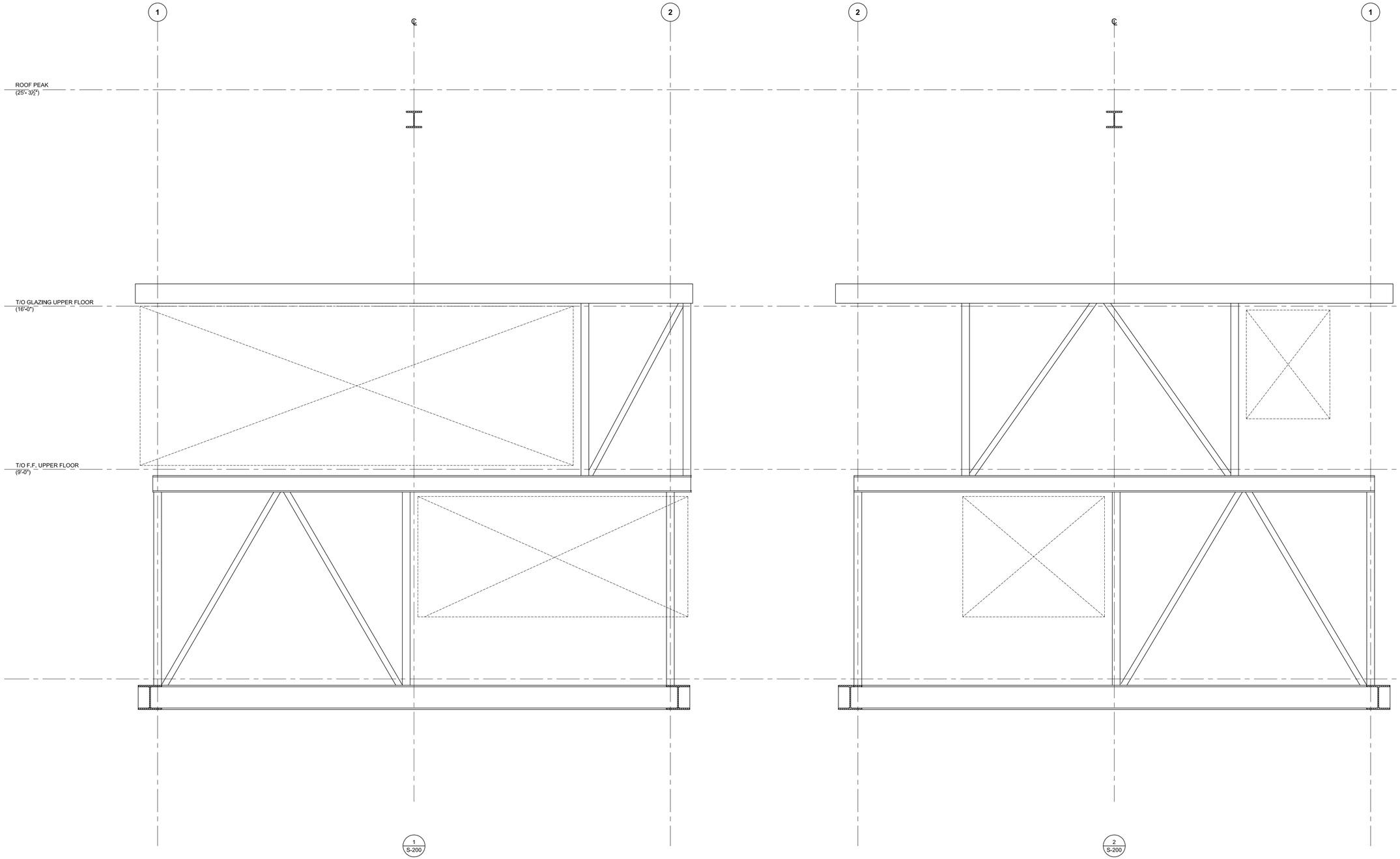
Address
EDEN
UTAH

File Name	CAD/BIM Program
	AUTOCAD
Drawn by	Checked by
AVB	N/A
Scale	Project #
AS NOTED	160063

Sheet Title
COLUMN SCHEDULE

S-104

19 Duncan St. #405, Toronto, M5H 3H1 T 416.593.5300 | 31 King St. N., 2nd Fl., Waterloo, N2J 2W8 T 519.616.0895 | blackwell.ca



1 S-200
1/2" = 1'-0"

2 S-200
1/2" = 1'-0"

S-200 STEEL ELEVATIONS

NOTES:

1. DRAWINGS ARE DEVELOPED TO SHOW THE INTENT OF CONNECTIONS ONLY. ALL CONNECTIONS ARE TO BE DESIGNED AND SEALED BY THE STEEL FABRICATOR.
2. LOCALLY, CENTERLINES OF BEAMS ARE SHOWN THUS , WORKING POINTS OF BRACING CONNECTIONS ARE SHOWN THUS

DRAWING PROVIDED FOR CONTEXT ONLY. SUPERSTRUCTURE PERMIT PACKAGE TO FOLLOW.

Blackwell

REVIEWED AND SEALED BY:

SULLAWAY
ENGINEERING
10815 RANCHO BERNARDO ROAD
SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullawayeng.com

MARK	DATE	DESCRIPTION
	2016.10.14	FOUNDATIONS ONLY PERMIT

ISSUE: 2016.10.14

Project Name
SUMMIT CABINS
1500 SQFT UNIT

Address
EDEN
UTAH

File Name	CAD/BIM Program
	AUTOCAD
Drawn by	Checked by
AVB	N/A
Scale	Project #
AS NOTED	160063

Sheet Title
STEEL ELEVATIONS

S-200

19 Duncan St. #405, Toronto, M5H 3H1 T 416.593.1300 | 31 King St. N., 2nd Fl., Waterloo, N2J 2W6 T 519.616.0895 | blackwell.ca

DRAWING PROVIDED FOR CONTEXT ONLY.
SUPERSTRUCTURE PERMIT PACKAGE TO FOLLOW.

Blackwell

NOTE:

THIS DRAWING IS THE PROPERTY OF BLACKWELL AND MAY NOT BE REPRODUCED OR USED WITHOUT THE EXPRESSED CONSENT OF BLACKWELL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPENCIES TO BLACKWELL AND OBTAIN CLARIFICATION PRIOR TO COMMENCING WORK.

REVIEWED AND SEALED BY:

SULLAWAY
ENGINEERING
10815 RANCHO BERNARDO ROAD
SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullawayeng.com

	2016.10.14	FOUNDATIONS ONLY PERMIT
MARK	DATE	DESCRIPTION

ISSUE: 2016.10.14

Project Name
SUMMIT CABINS
1500 SQFT UNIT

Address
EDEN
UTAH

File Name	CAD/BIM Program: AUTOCAD
Drawn by: AVB	Checked by: N/A
Scale: AS NOTED	Project #: 160063

Sheet Title
SHEARWALL
ELEVATIONS

S-300

19 Duncan St. #405, Toronto, M5H 3H1 T 416.593.1500 | 31 King St. N., 2nd Fl., Waterloo, N2J 2W6 T 519.616.0895 | blackwell.ca

DRAWING PROVIDED FOR CONTEXT ONLY.
SUPERSTRUCTURE PERMIT PACKAGE TO FOLLOW.

Blackwell

REVIEWED AND SEALED BY:

SULLAWAY
ENGINEERING
10815 RANCHO BERNARDO ROAD
SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullawayeng.com

	2016.10.14	FOUNDATIONS ONLY PERMIT
MARK	DATE	DESCRIPTION

ISSUE: 2016.10.14

Project Name
SUMMIT CABINS
1500 SQFT UNIT

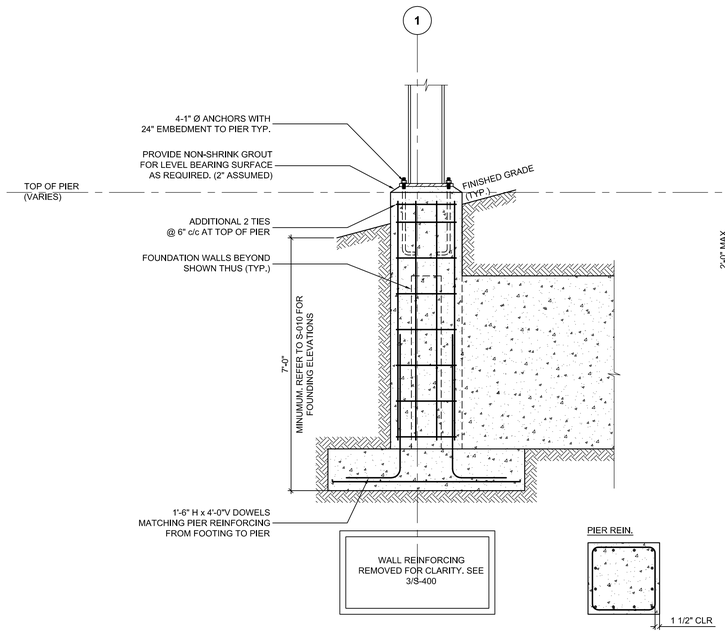
Address
EDEN
UTAH

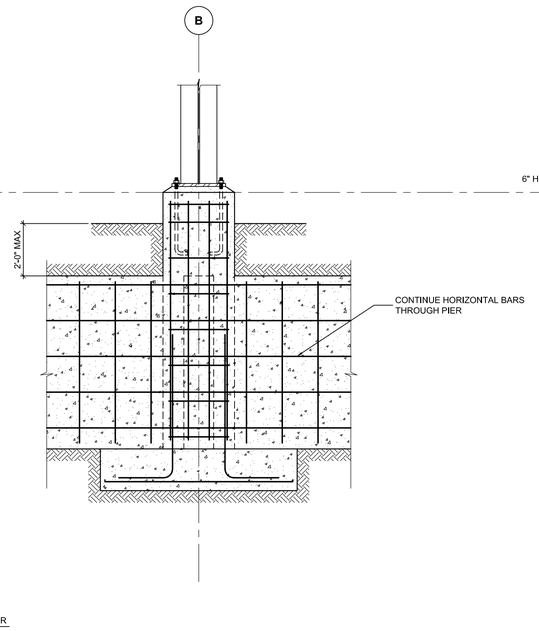
File Name	CAD/BIM Program: AUTOCAD
Drawn by: AVB	Checked by: N/A
Scale: AS NOTED	Project #: 160063

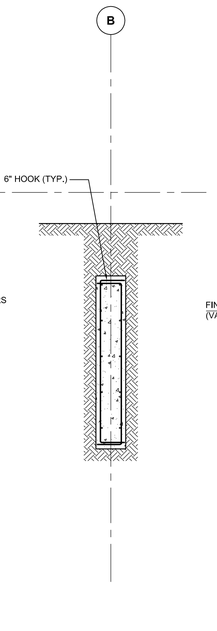
Sheet Title
SHEARWALL ELEVATIONS CONTINUED

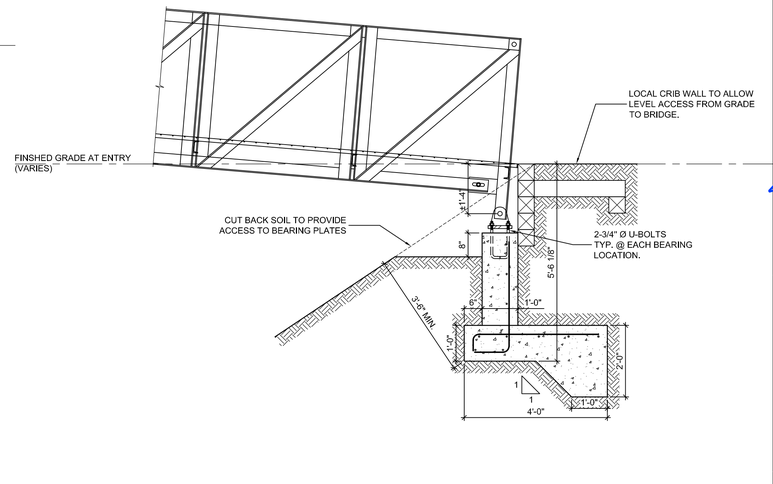
S-301

19 Duncan St. #405, Toronto, M5H 3H1 T 416.593.1500 | 31 King St. N., 2nd Fl., Waterloo, N2J 2W6 T 519.616.0895 | blackwell.ca









Blackwell

NOTE:

THIS DRAWING IS THE PROPERTY OF BLACKWELL AND MAY NOT BE REPRODUCED OR USED WITHOUT THE EXPRESSED CONSENT OF BLACKWELL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND VERIFYING ALL LEVELS AND DIMENSIONS AND SHALL REPORT ALL DISCREPENCIES TO BLACKWELL AND OBTAIN CLARIFICATION PRIOR TO COMMENCING WORK.

REVIEWED AND SEALED BY:

PROFESSIONAL STRUCTURAL ENGINEER
No. 6985627 2203
MICHAEL F SULLAWAY
STATE OF UTAH

SULLAWAY
ENGINEERING
10815 RANCHO BERNARDO ROAD
SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullawayeng.com

19 Duncan St., #405, Toronto, M5H 3H1 T 416.593.5300 | 31 King St., N., 2nd Fl., Waterloo, N2J 2W6 T 519.616.0895 | blackwell.ca

MARK	DATE	DESCRIPTION
	2016.10.14	FOUNDATIONS ONLY PERMIT

ISSUE: 2016.10.14

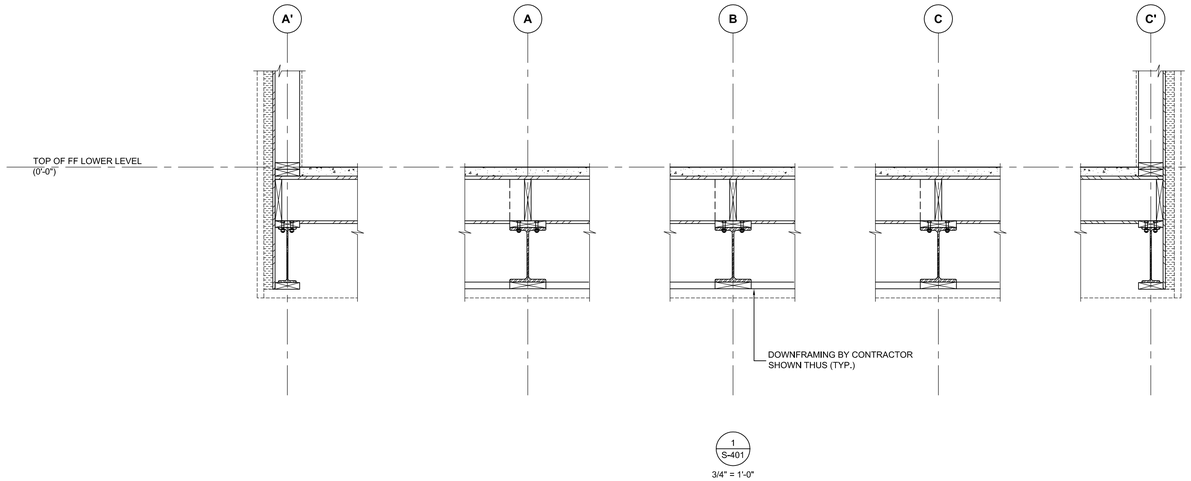
Project Name
SUMMIT CABINS
1500 SQFT UNIT

Address
EDEN
UTAH

File Name	CAD/BIM Program
	AUTOCAD
Drawn by	Checked by
AVB	N/A
Scale	Project #
AS NOTED	160063

Sheet Title
FOUNDATION SECTIONS

S-400



1
S-401
3/4" = 1'-0"

DRAWING PROVIDED FOR CONTEXT ONLY.
SUPERSTRUCTURE PERMIT PACKAGE TO FOLLOW.

Blackwell

REVIEWED AND SEALED BY:

SULLAWAY
ENGINEERING
10815 RANCHO BERNARDO ROAD
SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullawayeng.com

	2016.10.14	FOUNDATIONS ONLY PERMIT
MARK	DATE	DESCRIPTION

ISSUE: 2016.10.14

Project Name
SUMMIT CABINS
1500 SQFT UNIT

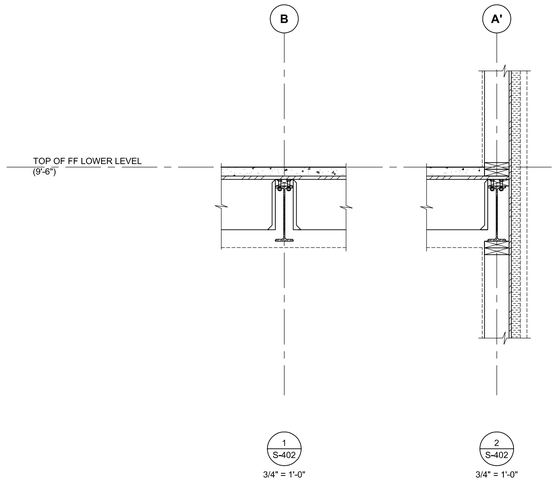
Address
EDEN
UTAH

File Name	CAD/BIM Program: AUTOCAD
Drawn by: AVB	Checked by: N/A
Scale: AS NOTED	Project #: 160063

Sheet Title
LOWER FLOOR FRAMING SECTIONS

S-401

19 Duncan St. #405, Toronto, M5H 3H1 T 416.593.1300 | 31 King St. N., 2nd Fl., Waterloo, N2J 2W6 T 519.616.0895 | blackwell.ca



DRAWING PROVIDED FOR CONTEXT ONLY.
SUPERSTRUCTURE PERMIT PACKAGE TO FOLLOW.

Blackwell

REVIEWED AND SEALED BY:

SULLAWAY
ENGINEERING
10815 RANCHO BERNARDO ROAD
SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullawayeng.com

	2016.10.14	FOUNDATIONS ONLY PERMIT
MARK	DATE	DESCRIPTION

ISSUE: 2016.10.14

Project Name
SUMMIT CABINS
1500 SQFT UNIT

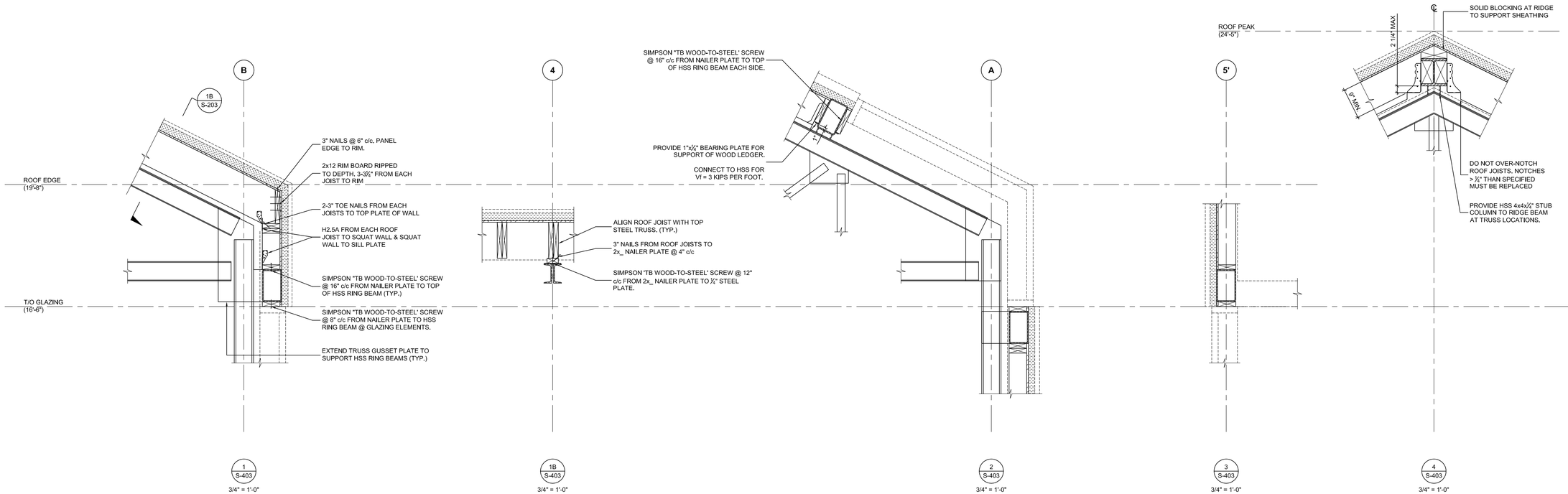
Address
EDEN
UTAH

File Name	CAD/BIM Program: AUTOCAD
Drawn by: AVB	Checked by: N/A
Scale: AS NOTED	Project #: 160063

Sheet Title
UPPER FLOOR FRAMING SECTIONS

S-402

19 Duncan St., #405, Toronto, M5H 3H1 T 416.593.1300 | 31 King St., N., 2nd Fl., Waterloo, N2J 2W6 T 519.616.0895 | blackwell.ca



DRAWING PROVIDED FOR CONTEXT ONLY.
SUPERSTRUCTURE PERMIT PACKAGE TO FOLLOW.

Blackwell

REVIEWED AND SEALED BY:

SULLAWAY
ENGINEERING
10815 RANCHO BERNARDO ROAD
SUITE 210
SAN DIEGO, CA 92127
(858) 312-5150
www.sullawayeng.com

MARK	DATE	DESCRIPTION
	2016.10.14	FOUNDATIONS ONLY PERMIT

ISSUE: 2016.10.14

Project Name
SUMMIT CABINS
1500 SQFT UNIT

Address
EDEN
UTAH

File Name	CAD/BIM Program: AUTOCAD
Drawn by: AVB	Checked by: N/A
Scale: AS NOTED	Project #: 160063

Sheet Title
ROOF FRAMING SECTIONS

S-403

19 Duncan St. #405, Toronto, M5H 3H1 | T 416.593.5300 | 31 King St. N., 2nd Fl., Waterloo, N2J 2W8 | T 519.616.0895 | blackwell.ca