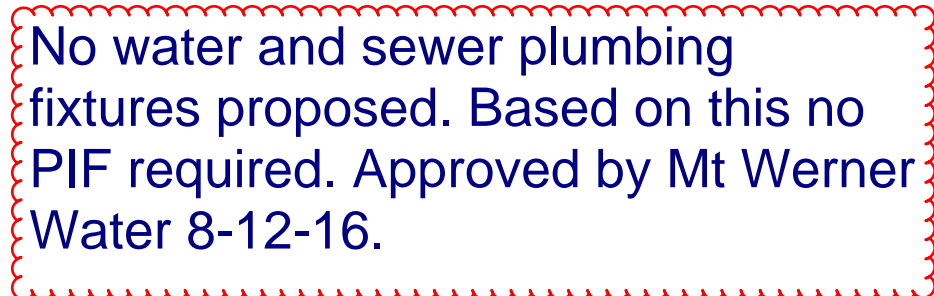


ATMOS ENERGY CORPORATION
2# Systems will not be allowed unless proof of an appliance requiring a MINIMUM of over 7" W.C. is provided to Atmos Energy Corporation personnel for review.
Meter location must be approved by an Atmos Energy Corporation employee during a mandatory site visit to be scheduled after foundation is in place.
Meters will not be allowed under a shedding roofline or where overhanging snow is a danger to the meter set.



PJ1735-5
Fire Prevention
In: 8/17/2016
Out: 08/17/2016

APPLICABLE CODES:
 2009 INTERNATIONAL BUILDING CODE
 2009 INTERNATIONAL PLUMBING CODE
 2009 INTERNATIONAL MECHANICAL CODE
 2009 INTERNATIONAL ENERGY CONSERVATION CODE
 2009 FUEL GAS CODE
 2011 NATIONAL ELECTRIC CODE
 INTERNATIONAL CODE COUNCIL ELECTRIC CODE
 2009 CITY OF S.S. COMMUNITY DEVELOPMENT CODE

ZONING: OR - OPEN SPACE & RECREATION

SETBACKS:

FRONT: 25'-0" PRIMARY, 25'-0" ACCESSORY
SIDE: 25'-0" PRIMARY, 15'-0" ACCESSORY
REAR: 20'-0" PRIMARY, 15'-0" ACCESSORY

LOT SIZE:

WIDTH: 25'-0" MIN, NO MAX
DEPTH: NO MIN
MINIMUM AREA: 2,500 SQ. FT.

LOT COVERAGE: NO MAXIMUM

F.A.R.: NO MAXIMUM

SE4SE4, TRS IN NE4SE4, SW4SE4,
SE4SW4 SEC. 22-6-84, NE4NE4, TRS
IN NW4NE4 SECT. 27-6-84

R C R B D

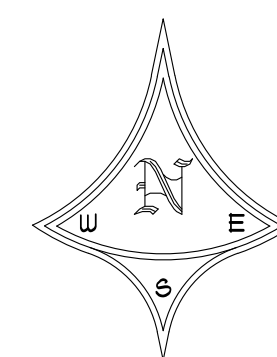
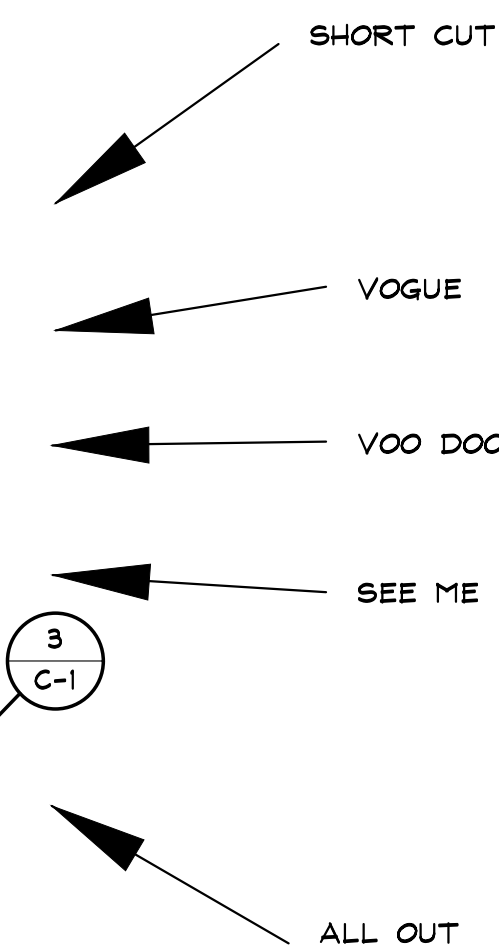
RECORD SET

ZONING: OR - OPEN SPACE & RECREATION
CONSTRUCTION TYPE: V-B
OCCUPANCY CLASSIFICATION: GROUP B
NO. STORIES: (2)
SIZE OF BUILDING: 351.5 SQ. FT.
OCCUPANCY LOAD: 4 PEOPLE (351.5 SQ. FT./100)
SIZE OF LOT: 197.0 ACRES
BLDG. HEIGHT: APH: 17'-0", 22'-0" ALLOWED
OH: 24'-0" MAX, 34'-0" ALLOWED

<u>SHEET</u>	<u>CONTENTS</u>
C-1	OVERALL SITE PLAN & VICINITY MAP
A-1	FLOOR PLANS & ARCH. NOTES
A-2	BUILDING ELEVATIONS
A-3	BUILDING SECTION
S-1	FOUNDATION PLAN, SECTIONS & STRUC. NOTES
S-2	FRAMING PLANS & SECTIONS

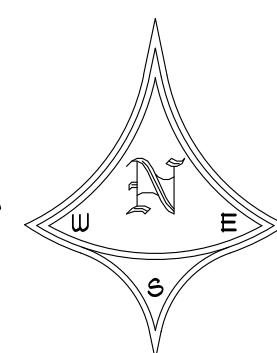


SCALE: 1" = 10'-0"



NOT A CERTIFIED PLAT-BASED ON SURVEY BY LANDMARK CONSULTANTS, INC. DATED: 06.16.2016

SCALE: 1" = 240'-0"



$1'' = 1000'$

$$1'' = 1000'$$

ALPINE COASTER UPPER BUILDING

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO

A NEW BUILDING FOR:
SSRC - STEAMBOAT SKI & RESORT CORP.

ISSUE DATES

PRGRESS
07 . 06 . 16

PERMIT
08 . 03 . 16

DRAWN BY:
SJM/JEM
PROJECT # 16020

OVERALL SITE
PLAN &
VICINITY MAP

C-1

SHEET 1 of 6

ARCHITECTURAL NOTES

All work must comply with state and local codes, based on the Routt County Zoning Regulations, the 2009 International Building Code, the 2009 International Residential Code, the International Plumbing Code, the International Mechanical Code, the Energy Conservation Code and the International Electric code. The contractor shall comply with all laws, ordinances, rules and regulations of any public authority bearing on the performance of the work, including O.S.H.A.

Location of the utilities (electrical, telephone, cable TV, gas, water, sewer) shall be verified before construction begins.

All on site construction safety and construction means and methods are the responsibility of the contractor. There is no implication of the construction safety requirements or building methods contained in these drawings.

All interior and exterior dimensions are to face of stud or face of concrete, U.N.O.

Do not scale drawings.

Actual site conditions may require that some of the components of the work should be done differently than shown on these drawings. All dimensions and conditions to be verified by the contractor prior to construction. Verify changes with the designer and engineer.

These drawings represent a simplified builder's set of plans. Additional detailing may be required of the engineer during construction.

If any discrepancies are found in these drawings notify engineer and/or designer immediately.

Any variation which requires a physical change from these plans must be brought to the attention of the designer and engineer in order to maintain the design intent of the project.

All work connected with this project by any trade involved shall be of the highest quality attainable in accordance with the professional practice of the trade.

Open sides of stairways, landings, ramps, balconies and porches which are more than 30" above grade shall be protected by a guardrail. All guardrails must be 36" above finished floor and shall allow no more than a 4" diameter sphere to pass through any portion of the railing per 2009 IRC R312.

Habitable spaces within dwelling units shall have natural light provided by exterior openings equal to 8% of the floor area. Natural ventilation shall be provided by means of operable exterior openings equal to 4% of the floor area.

The water closet stool shall be located in a clear space of not less than 30" in width. The clear space in front of the water closet stool shall be not less than 21".

All exterior walls are nominal 2x6 stud construction, U.N.O. All interior walls are nominal 2x4 stud construction, U.N.O.

The surface of exterior stairs shall be slip resistant.

Provide Grace 'ice and water shield', or equivalent product, from the edge of roof overhangs to the ridge.

Walls and ceilings of enclosed usable space under stairs requires 1/2" gypsum wallboard. The door to access such spaces need not be rated.

Provide smoke detection per 2009 IRC section R314.

DOOR & HARDWARE SCHEDULE

NO.	LOCATION	ROUGH OPENING		DOOR SIZE	JAMB THICK.	FIRE RATING	FRAME	DOOR HAND	REMARKS
		WIDTH	HEIGHT						
1	CONTROL ROOM	3'-2"	6'-10"	306B	6 9/16"	N/A	STAIN GRADE WOOD	LEFT	EXT. w/ CLAD FRAME

NOTE: VERIFY ALL ROUGH OPENINGS

WINDOW SCHEDULE

NO.	MANUFACTURER	QTY.	UNIT DIMENSION		ROUGH OPENING		FUNCTION	DIRECTION (HAND)	BOTTOM OF HEADER	REMARKS
			WIDTH	HEIGHT	WIDTH	HEIGHT				
A	T.B.D.	3	4'-0"	3'-0"	4'-0½"	3'-0½"	SLIDER	N/A	6'-10" ABV. PLYWD.	

NOTE: VERIFY ALL ROUGH OPENINGS

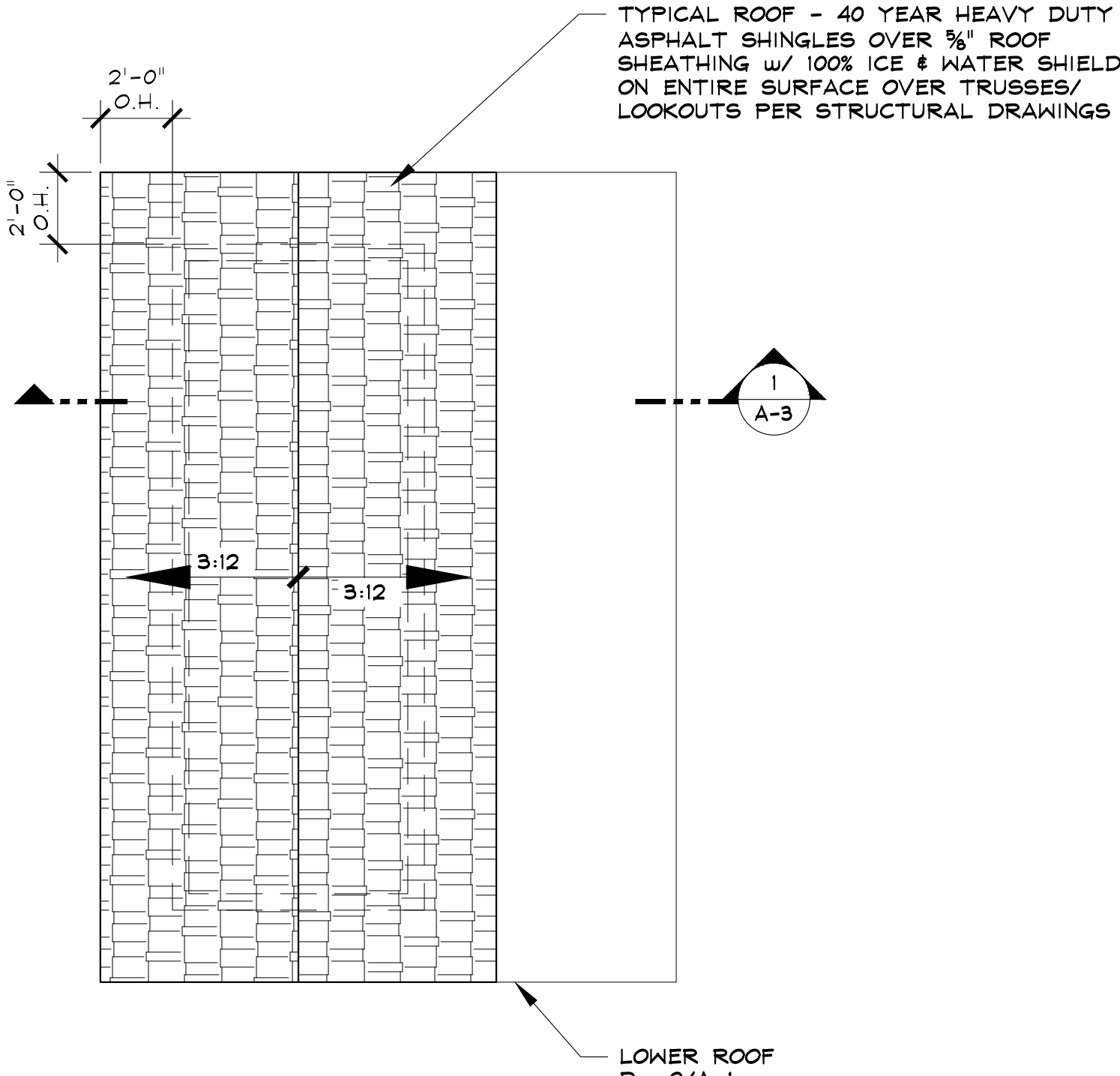
COMMERCIAL ENERGY CODE STANDARDS

Re: 2009 International Energy Conservation Code Table 502.2(1)

BUILDING ENVELOPE REQUIREMENTS - OPAQUE BUILDINGS

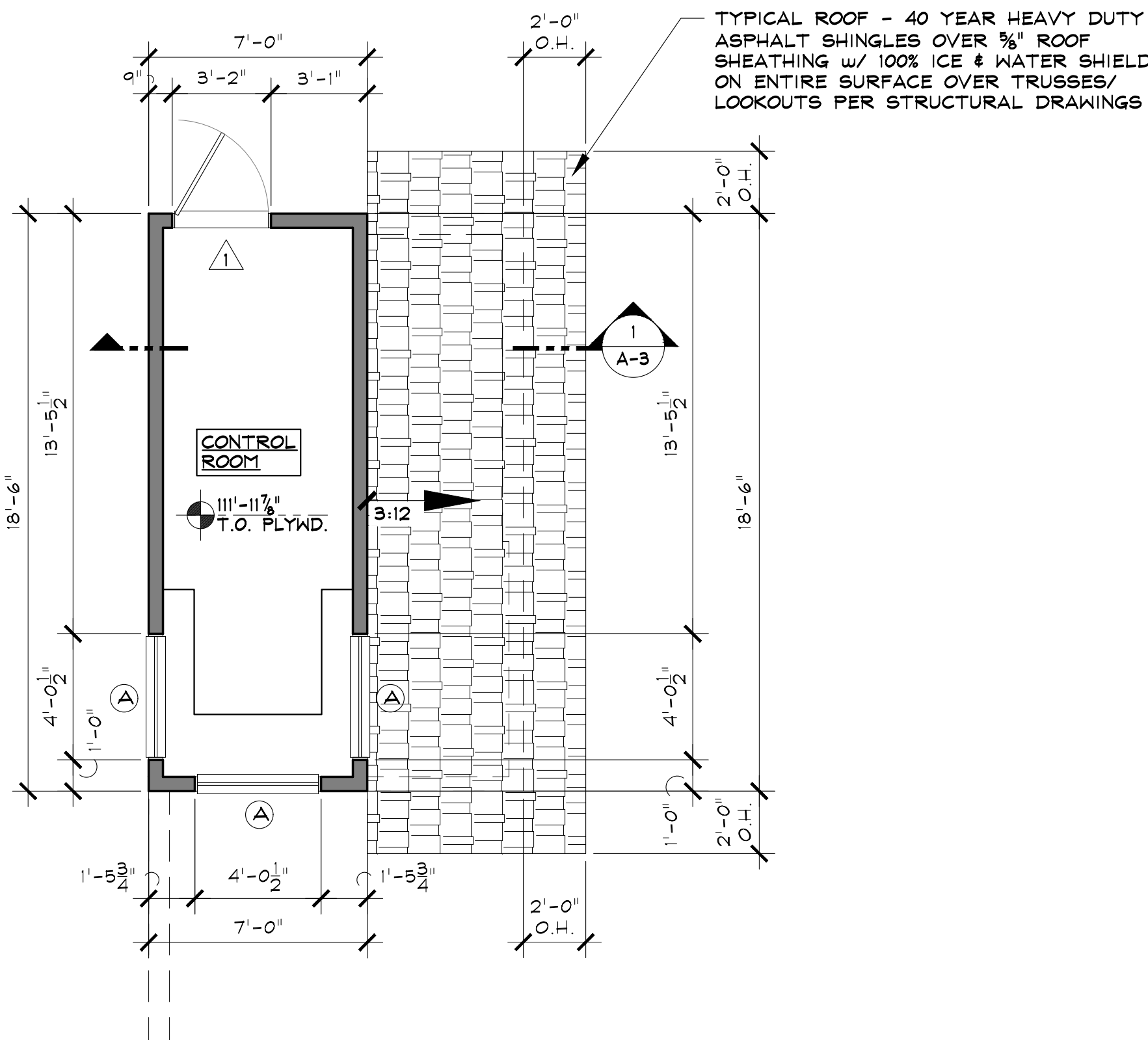
Climate Zone 7	Roofs			Walls Above Grade			Walls Below Grade		Floors		Slab-on-Grade Floors		Opaque Doors	
	Insulation entirely above deck	Metal buildings (w/ r-5 thermal blocks) ^a	Attic & other	Mass	Metal Building ^b	Metal Framed	Wood Framed & Other	Below grade wall ^c	Mass	Joists/ Framing	Unheated Slabs	Heated Slabs	Swinging	Roll up or Sliding
Group R	R-25ci	R-19 + R-10	R-3B	R-15.2ci	R-19 + R-5.6ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-10ci	R-16.7ci	R-30	R-15 for 24in. below	R-20 for 48in. below	U-0.50	U-0.50
All other	R-25ci	R-13 + R-19	R-3B	R-15.2ci	R-13 + R-5.6ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-7.5ci	R-15ci	R-30	R-15 for 24in. below	R-20 for 24in. below	U-0.50	U-0.50

a	Thermal blocks are a minimum R-5 of rigid insulation, which extends 1 inch beyond the width of the purlin on each side, perpendicular to the purlin.
b	Assembly descriptions can be found in Table 502.2(2)
c	R-5.7 ci may be substituted with concrete block walls complying with ASTM C 90, ungrouted or partially grouted at 32 inches or less on center vertically and 48 inches or less on center horizontally, with ungrouted cores filled with material having a maximum thermal conductivity of 0.44 Btu-in./h·ft²·F.
d	When heated slabs are placed below grade, below grade walls must meet the exterior insulation requirements for perimeter insulation according to the heated slab-on-grade construction.
e	Insulation is not required for mass walls in Climate Zone 3A located below the "Warm-Humid" line, and in Zone 3B.



3 UPPER ROOF PLAN

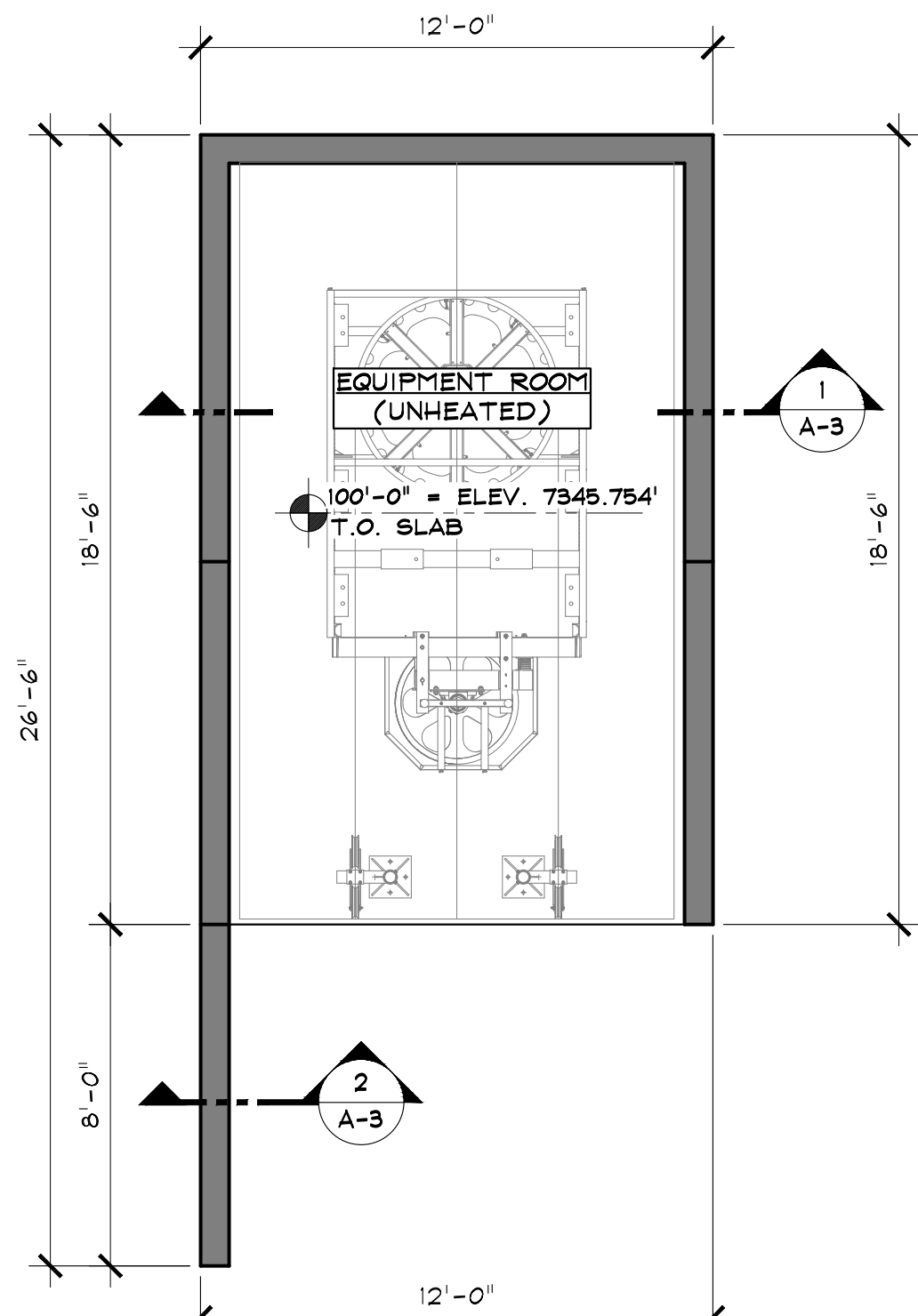
SCALE: ¼" = 1'-0"



2 MAIN LEVEL FLOOR / LOWER ROOF PLAN

129.5 SQ. FT. CONTROL ROOM

SCALE: ¼" = 1'-0"



1 LOWER LEVEL FLOOR PLAN

222 SQ. FT. UNHEATED EQUIPMENT ROOM

SCALE: ¼" = 1'-0"

ALPINE COASTER UPPER BUILDING

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO

A NEW BUILDING FOR:

SSRC - STEAMBOAT SKI & RESORT CORP.

ISSUE DATES

PRGRESS
07 . 06 . 16
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08 . 03 . 16

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PROJECT # 16020

UPPER BUILDING
FLOOR PLANS

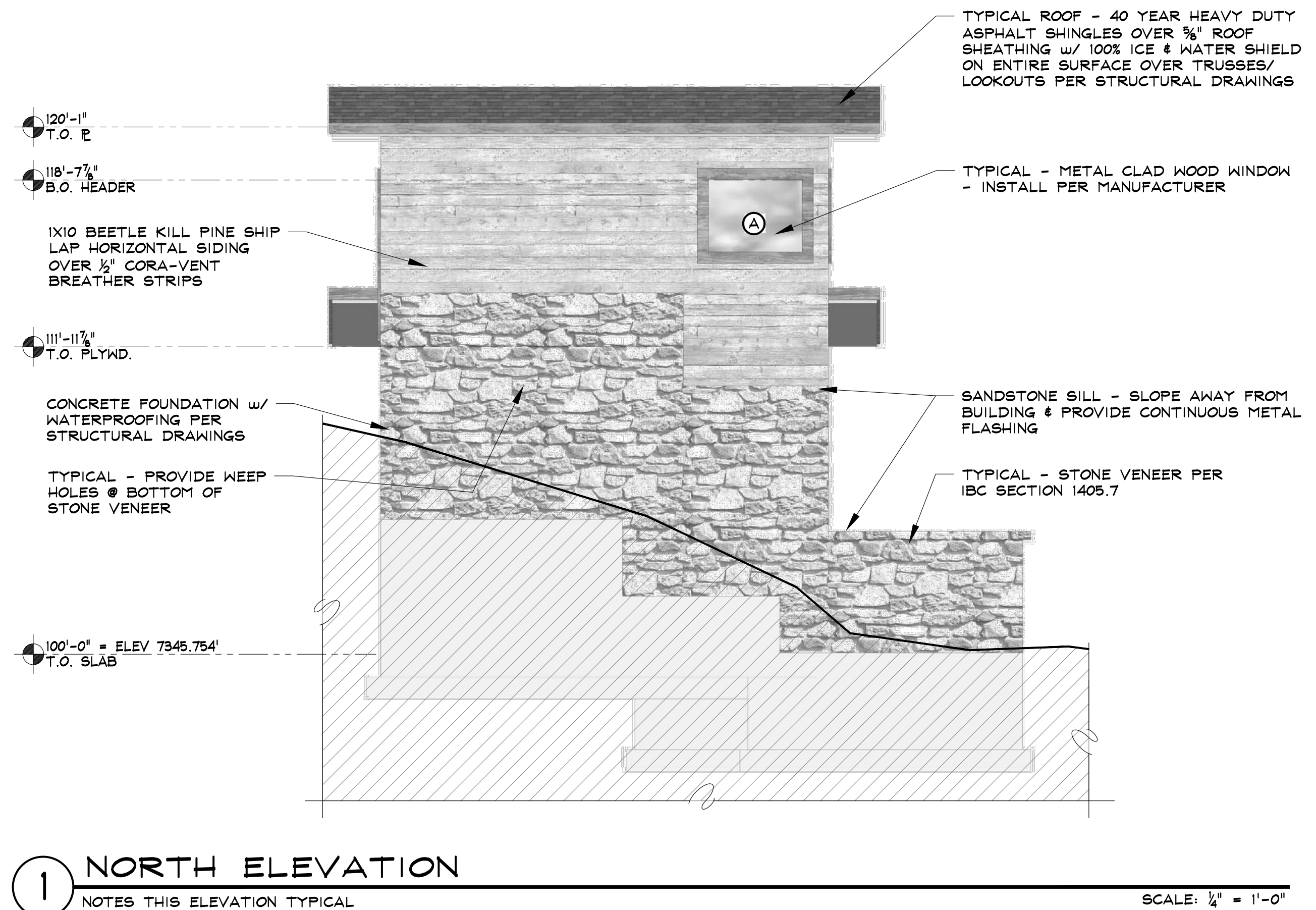
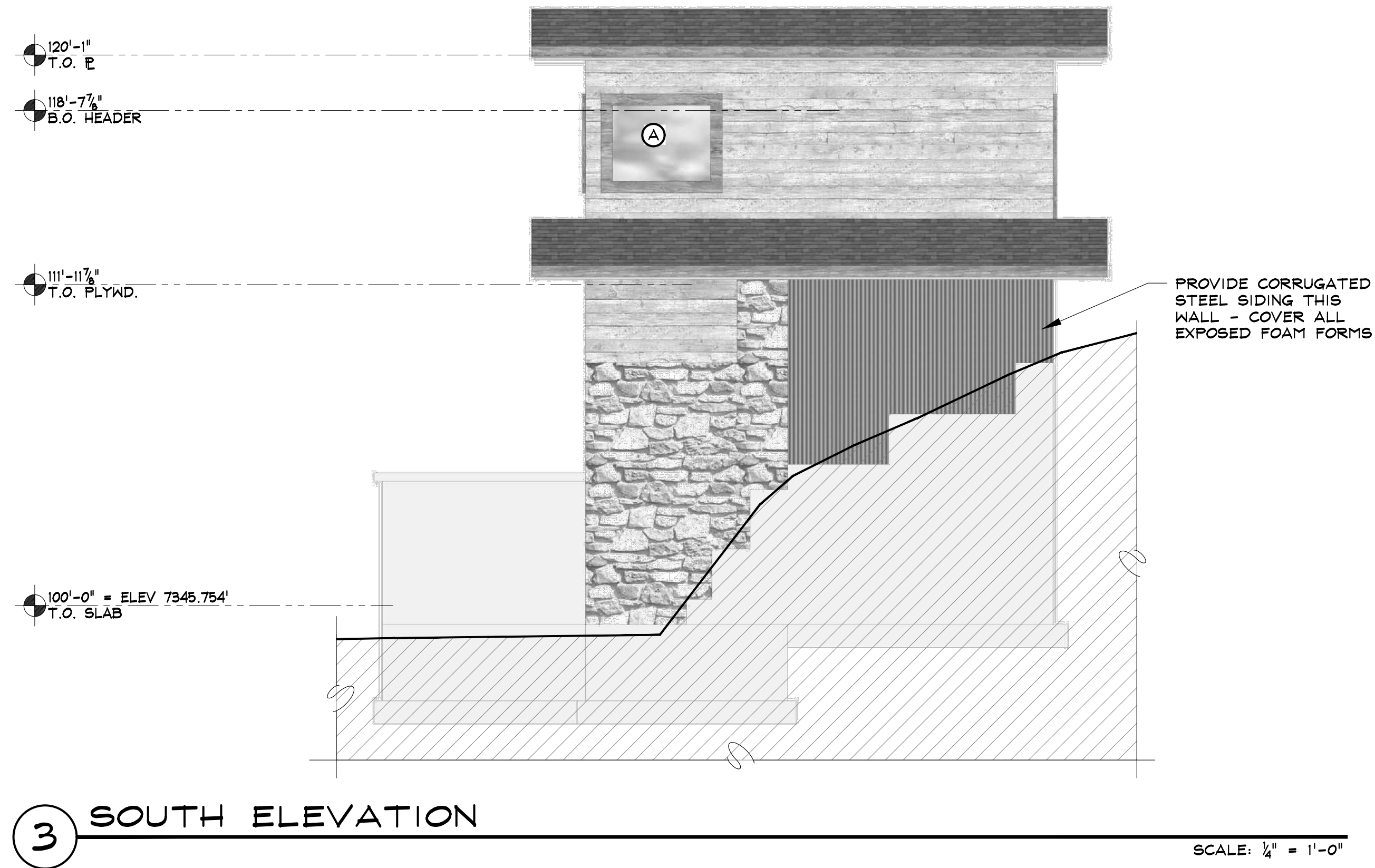
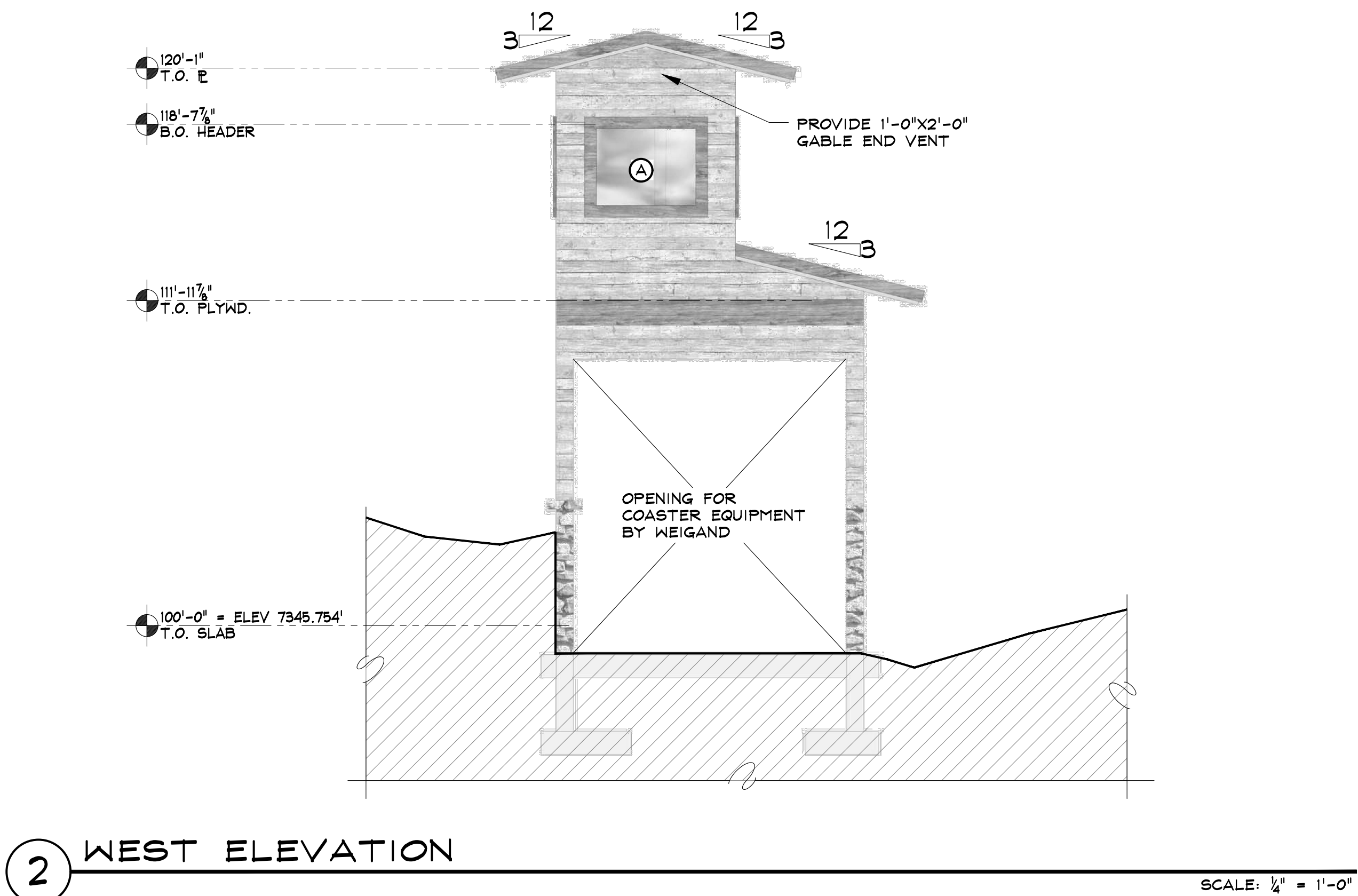
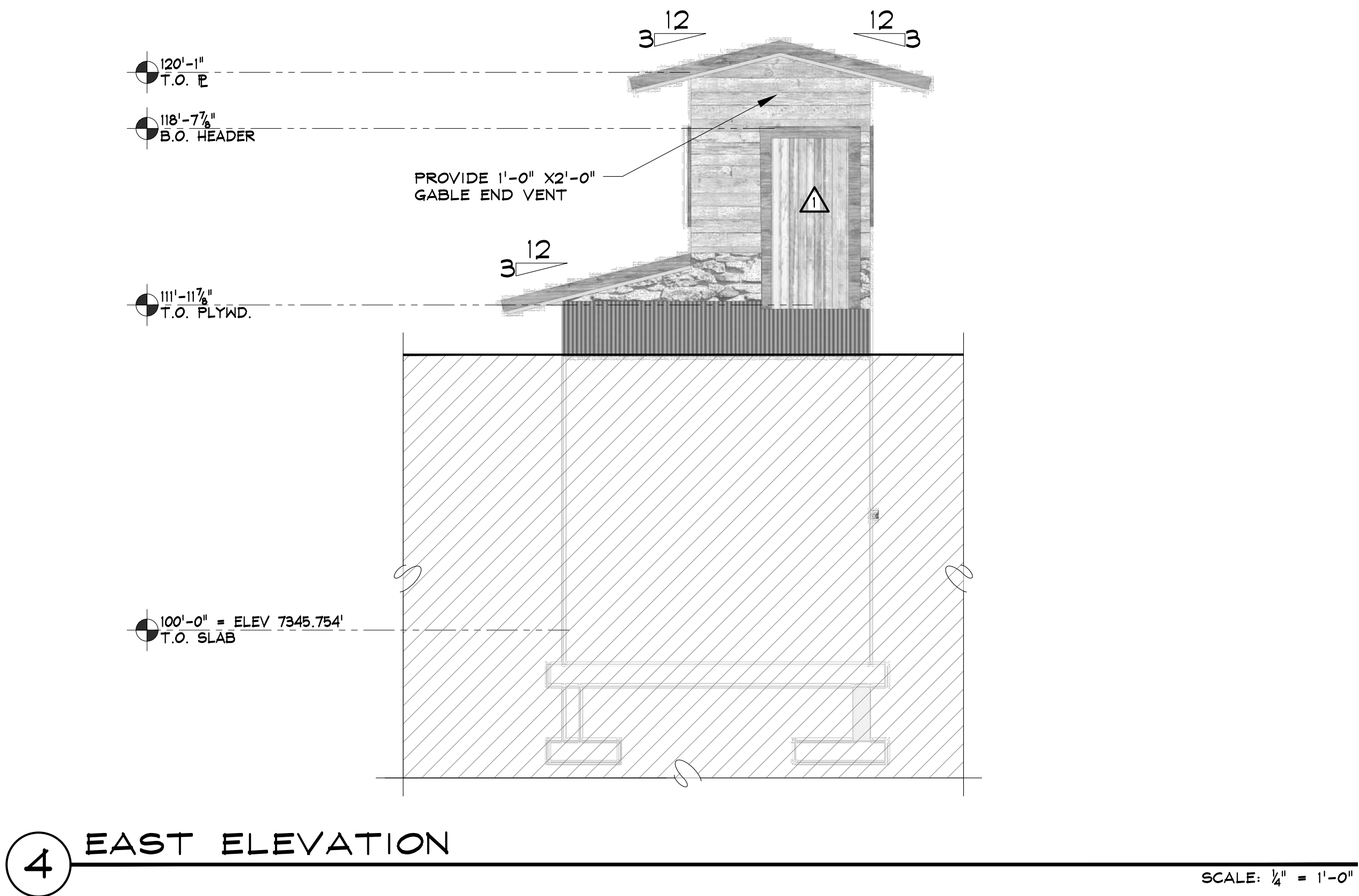
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A-1

SHEET 2 of 6

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R C R B D
RECORD SET

SEAD
Steamboat Engineering & Architectural Design, Inc.
2740 Acute Lane Suite 103 Steamboat Springs, CO 80487
Phone: 970.971.9111 Fax: 970.871.9089
E-mail: Steve@seadinc.com

ALPINE COASTER UPPER BUILDING
2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO
A NEW BUILDING FOR:
SSRC - STEAMBOAT SKI & RESORT CORP.

ISSUE DATES
PRGRESS
07 . 06 . 16
PERMIT
08 . 03 . 16

DRAWN BY:
SJM/JEM
PROJECT # 16020

BUILDING
ELEVATIONS

A-2
SHEET 3 of 6

THERMAL ENVELOPE NOTES

THE BUILDING ENVELOPE SHALL BE DURABLY SEALED TO LIMIT INFILTRATION. THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION. THE FOLLOWING SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED, OR OTHERWISE SEALED WITH A BARRIER MATERIAL, SUITABLE FILM, OR SOLID MATERIAL:

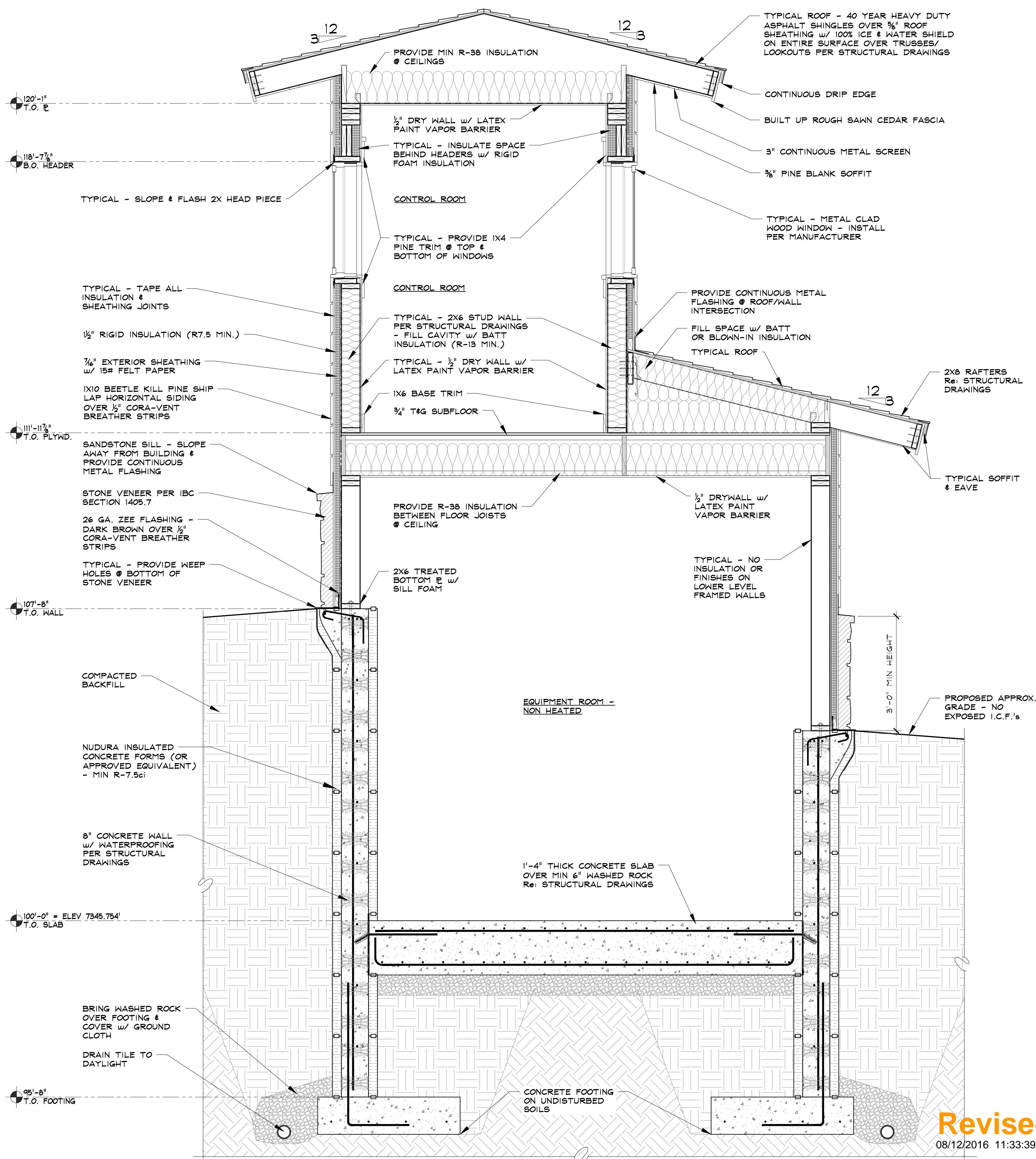
1. ALL JOINTS, SEAMS, AND PENETRATIONS
2. SITE-BUILT WINDOWS, DOORS, & SKYLIGHTS
3. OPENINGS BETWEEN WINDOW & DOOR ASSEMBLIES
4. UTILITY PENETRATIONS
5. DROPPED CEILINGS & CHASES ADJACENT TO THE THERMAL ENVELOPE
6. KNEE WALLS
7. WALLS & CEILING SEPARATING A GARAGE FROM CONDITIONED SPACES
8. BEHIND TUBS & SHOWERS OF EXTERIOR WALLS
9. BEHIND FIREPLACE INSERTS
10. ANY OTHER SOURCE OF INFILTRATION

WINDOWS, SKYLIGHTS, & SLIDING DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.3 cfm PER SQUARE FOOT. SWINGING DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.5 cfm PER SQUARE FOOT.

RECESSED LUMINARIES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED & UNCONDITIONED SPACES BY BEING:

- IC RATED & LABELED WITH ENCLOSURES THAT ARE SEALED OR GASKETED TO PREVENT AIR LEAKAGE TO THE CEILING CAVITY OR UNCONDITIONED SPACE

ABOVE GRADE FRAME WALLS, FLOORS, & CEILINGS NOT VENTILATED TO ALLOW MOISTURE TO ESCAPE SHALL BE PROTECTED WITH LATEX PAINT OR 6 MIL. POLY OVERLAPPED & TAPERED AT ALL JOINTS. THE VAPOR RETARDER SHALL BE INSTALLED ON THE WARM-IN-WINTER SIDE OF THE THERMAL ENVELOPE.



2 RETAINING WALL SECTION

1 BUILDING SECTION

SCALE: 3/4" = 1'-0"

Revised
08/12/2016 11:33:39 AM
A-3
SHEET 4 of 6

ALPINE COASTER UPPER BUILDING

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO

A NEW BUILDING FOR:
SSRC - STEAMBOAT SKI & RESORT CORP.

ISSUE DATES

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PERMIT	08 . 03 . 16

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SJM/JEM
PROJECT # 16020

BUILDING SECTION

SSRC
Steamboat Engineering & Architectural Design, Inc.
2740 Acute Lane Suite 101 Steamboat Springs, CO 80487
Phone: 970.871.8111 Fax: 970.871.9089
Email: Steve@ssrcinc.com

STRUCTURAL NOTES

Design Live Loads:
A. Roofs 110 psf
B. Floors 40 psf
C. Wind 120 mph, Exposure B, ASCE 7-10
D. Seismic Design Category B, Soil Type D, 2009 IBC

Foundation Criteria:
A. Design of continuous and individual footings is based on a maximum allowable soil bearing pressure of 2,500 psf dead load plus full live load placed on the natural undisturbed soils below frost depth. This is an assumed value based on local knowledge and previous projects in the area.

Reinforced Concrete:
A. Structural concrete shall be Type I, and have a minimum 28 day strength of 3,000 psi. Exterior concrete slabs shall be Type I and have a minimum 28 day strength of 4,000 psi w/ min 6% entrained air for durability.
B. Reinforcing bars shall conform to ASTM spec. A615-79 and shall be Grade 60.
C. All concrete work shall conform to the requirements of ACI318 and 301, latest edition.
D. At splices, lap bars a minimum of 34 diameters. At corners and intersections, make horizontal continuous or provide matching corner bars. Around openings in walls and slabs, provide (2) #5 bars extending a minimum of 2 feet beyond the edge of the opening.
E. Concrete cover shall conform to ACI 318-08, 7.7. Unless a greater cover is required, concrete cast against earth shall have 3in. min. cover, concrete exposed to earth or weather shall have 1 1/2 in. min. cover for No. 5 bars & smaller & 2in. min. cover for No. 6 bars & greater. Concrete not exposed to weather shall have 3/4" min. cover for No. 11 bars & smaller.

Structural Steel:
A. All bolts, including anchor bolts, shall conform to ASTM spec. A307.
B. Structural steel rolled shapes, including plates and angles, shall be ASTM A36.
C. Expansion bolts called for on the drawings shall be Simpson "Weg-All", "Strong-Bolt 2" or approved wedge type anchors with the following minimum embedments: 3/4" diameter bolts - 3 3/8", 5/8" diameter bolts - 2 1/4", 1/2" diameter bolts - 2 1/4".
D. All epoxy shall be Simpson "Set-Xp" and shall be installed per the "Anchoring and Fastening Systems For Concrete and Masonry" Simpson catalog #C-SAS-2012 by qualified personnel.
E. Field welded connections must be inspected by the Engineer Of Record or approved 3rd party.
F. Fillet welds indicated on the plans shall be of E70xx electrodes and shall be the minimum size specified in the AISC Manual of Steel Construction, Table J2.4.

Structural Wood Framing:
A. Unless noted otherwise, all 2" lumber shall be Douglas Fir S4S No. 2 and better. All solid timber beams and posts shall be DF-L No. 1 or better.
B. Unless noted otherwise, minimum nailing shall be provided as specified in Table No. 2304.9.1, "Fastening Schedule", of the 2009 IBC or Table No. R602.3(1), "Fastener Schedule For Structural Members", of the 2009 IRC.
C. Wall and floor sheathing shall be APA rated with exterior glue and graded in accordance with APA standards. Panel identification and thickness shall be as noted on the drawings.
D. Where light gauge framing anchors are shown or required, they shall be Simpson "Strong Tie" (or equal approved by CBO). They shall be installed with the number and type of fasteners recommended by the manufacturer to develop the rated capacity.
E. Laminated Veneer Lumber shall be of such stress grade to provide an allowable bending stress of 2,600 psi, allowable shear stress parallel to the glue line of 285 psi and a modulus of elasticity of 1,900,000 psi.
F. Glue laminated timber shall be stress grade marked 24F-V4 for simple spans & 24F-V8 for multiple spans.
G. Roof trusses shall be designed by a Colorado Registered Professional Engineer to support the full live load and dead loads of the roof, ceiling, and any other superimposed loads. Calculations and shop drawings, including member sizes, lumber species, and grade and substantiating data for connector capacities and truss bearing, shall be submitted to the Architect or Engineer for review and approval prior to fabrication.
H. Floor joists shall be plant fabricated I series with LVL or solid wood flanges and plywood or OSB webs, and shall carry ICBO approval for a complete section. Joists shall be designed to carry full live and dead loads of the roof(s), floor(s), and any superimposed loads.
I. Roof overframing shall be 2x6 rafters @ 24" O.C. w/ 2x6 studs @ 24" O.C. to stack over rafters or purlins below.

Backfilling:
A. Do not backfill against basement or retaining walls until supporting slabs and floor framing are in place and securely anchored.

STRUCTURE LEGEND

- = COLUMN BELOW
- = COLUMN ABOVE
- = COLUMN CONTINUOUS THIS LEVEL
- = RAFTER
- = JOIST
- = BEAM
- = RIM
- = LEDGER
- = TYPICAL HEADER
- = CLOSURE WALL
- = HANGER
- = CLIP

ALPINE COASTER EQUIPMENT BY WEIGAND

DROP TOP OF WEST WALL 1'-4" & ADD BENT #4 BARS X 3'-0"X2'-0" @ 18" O.C. - FOUR SLAB OVER WALL

TYPICAL - BEND #4 BARS TO EXTEND 8" FOR EDGE REINF. ALL AROUND SLAB PERIMETER

100'-0" = ELEV. 7345.754' T.O. SLAB

TYPICAL - BACKFILL WALL w/ ON-SITE SOILS

98'-8" T.O. WALL @ DOORWAY

TYPICAL PERIMETER DRAIN - 4" PERF. PVC PIPE - SLOPE 1/8" FT. TO DAYLIGHT - SURROUND w/ 1 CU. FT./LIN. FT. WASHED ROCK IN MIRAFI 140 N FABRIC ENVELOPE

95'-6" T.O. FOOTING

2 FOUNDATION SECTION @ DOORWAY

SCALE: 3/4" = 1'-0"

4 FOUNDATION SECTION

SCALE: 3/4" = 1'-0"

TYPICAL - REMOVE I.C.F. AS REQUIRED FOR SLAB & ISOLATE SLAB FROM WALL w/ (2) LAYERS OF 30# FELT

TYPICAL CONCRETE SLAB Re: 2/S-1

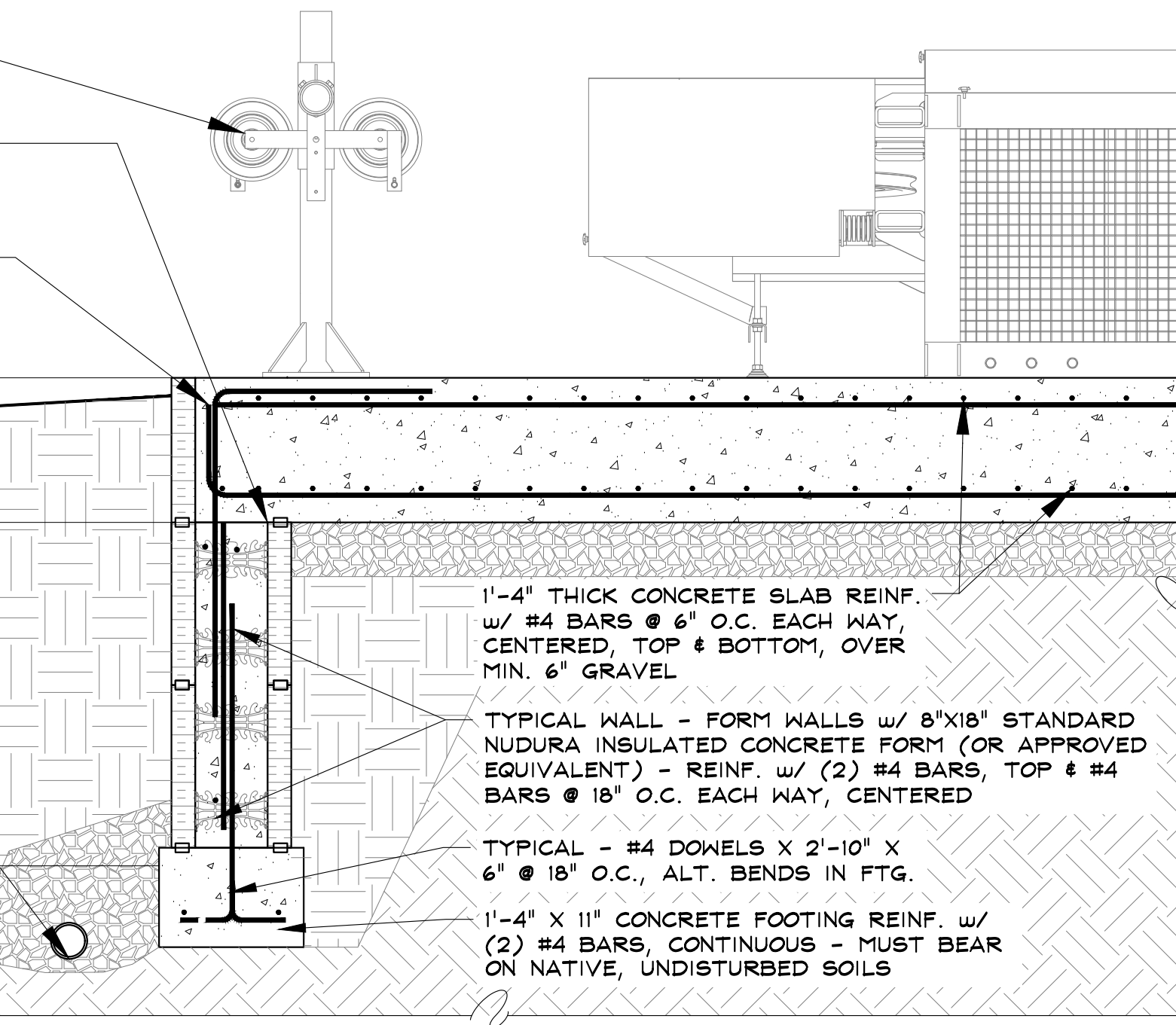
100'-0" = ELEV. 7345.754' T.O. SLAB

98'-8" T.O. FOOTING

5'-0"X0'-11" CONCRETE FOOTING REINF. w/ (5) #4 BARS, CONT. (MUST BEAR ON NATIVE, UNDISTURBED SOILS)

4 FOUNDATION SECTION

SCALE: 3/4" = 1'-0"



1'-4" THICK CONCRETE SLAB REINF. w/ #4 BARS @ 6" O.C. EACH WAY, CENTERED, TOP & BOTTOM, OVER MIN. 6" GRAVEL

TYPICAL WALL - FORM WALLS w/ 8"X18" STANDARD NUDURA INSULATED CONCRETE FORM (OR APPROVED EQUIVALENT) - REINF. w/ (2) #4 BARS, TOP & #4 BARS @ 18" O.C. EACH WAY, CENTERED

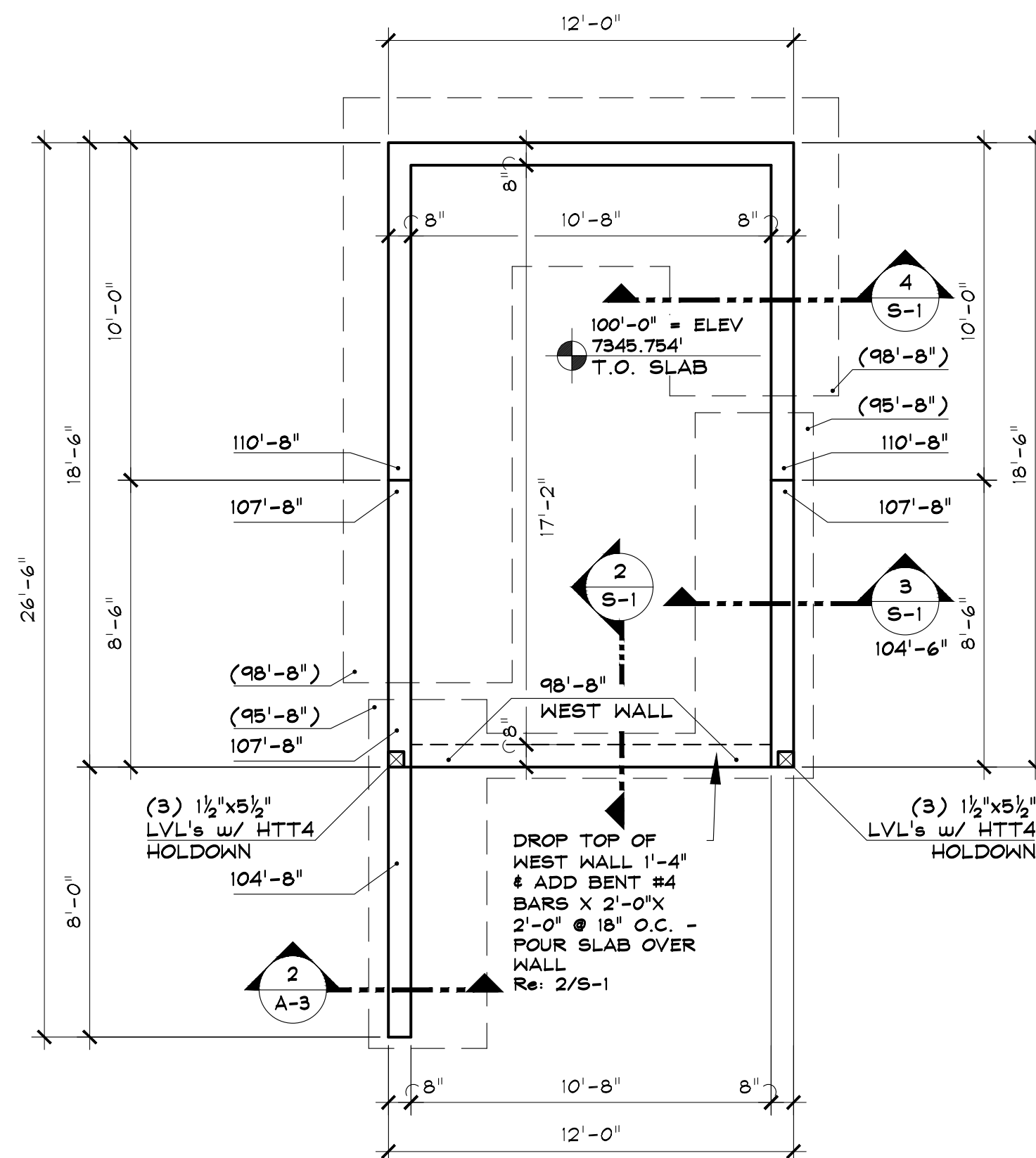
TYPICAL - #4 DOWELS X 2'-10" X 6" @ 18" O.C., ALT. BENDS IN FTG.

1'-4" X 11" CONCRETE FOOTING REINF. w/ (2) #4 BARS, CONTINUOUS - MUST BEAR ON NATIVE, UNDISTURBED SOILS

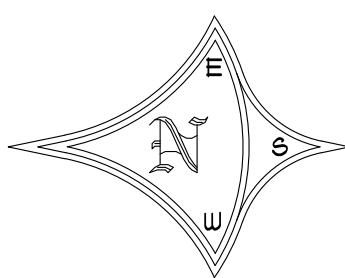
1 FOUNDATION PLAN

SCALE: 1/4" = 1'-0"

TYPICAL - ELEVATION @ TOP OF CONCRETE WALL INDICATED THUS: (ELEV.)
TYPICAL - ELEVATION @ TOP OF CONCRETE FOOTING INDICATED THUS: (ELEV.)
TYPICAL - COLUMNS THAT BEGIN THIS LEVEL ARE INDICATED ON PLAN



NOTE:
CONCRETE SLAB SHALL BE 1'-4" THICK SLAB REINF. w/ #4 BARS @ 6" O.C. EACH WAY, CENTERED, TOP & BOTTOM, OVER MIN. 6" GRAVEL



RCRBD
RECORD SET

TYPICAL EXTERIOR WALL - 7/8" APA RATED EXP. 1 SHEATHING OVER 2X6 @ 16" O.C. FRAMED WALLS

TYPICAL - 1/2"X10" GALV. ANCHOR BOLTS @ 4'-0" O.C. IN TREATED 2X6 PLATE - DO NOT COUNTERSINK

104'-6" T.O. WALL

TYPICAL - REMOVE I.C.F. AS REQUIRED FOR SLAB & ISOLATE SLAB FROM WALL w/ (2) LAYERS OF 30# FELT

TYPICAL CONCRETE SLAB Re: 2/S-1

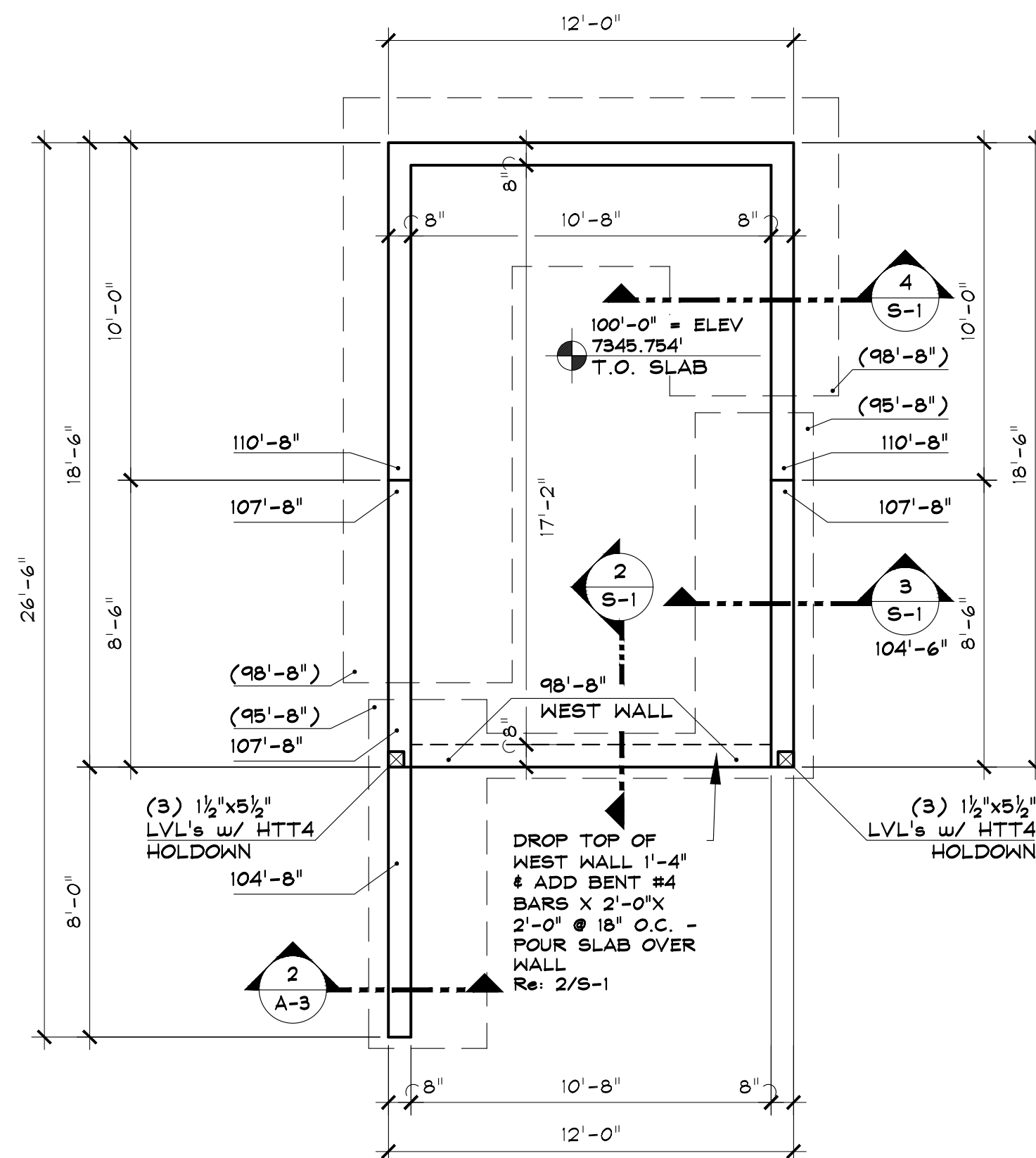
100'-0" = ELEV. 7345.754' T.O. SLAB

3'-6"X0'-11" CONCRETE FOOTING REINF. w/ (4) #4 BARS, CONT.

95'-6" T.O. FOOTING

3 FOUNDATION SECTION

SCALE: 3/4" = 1'-0"

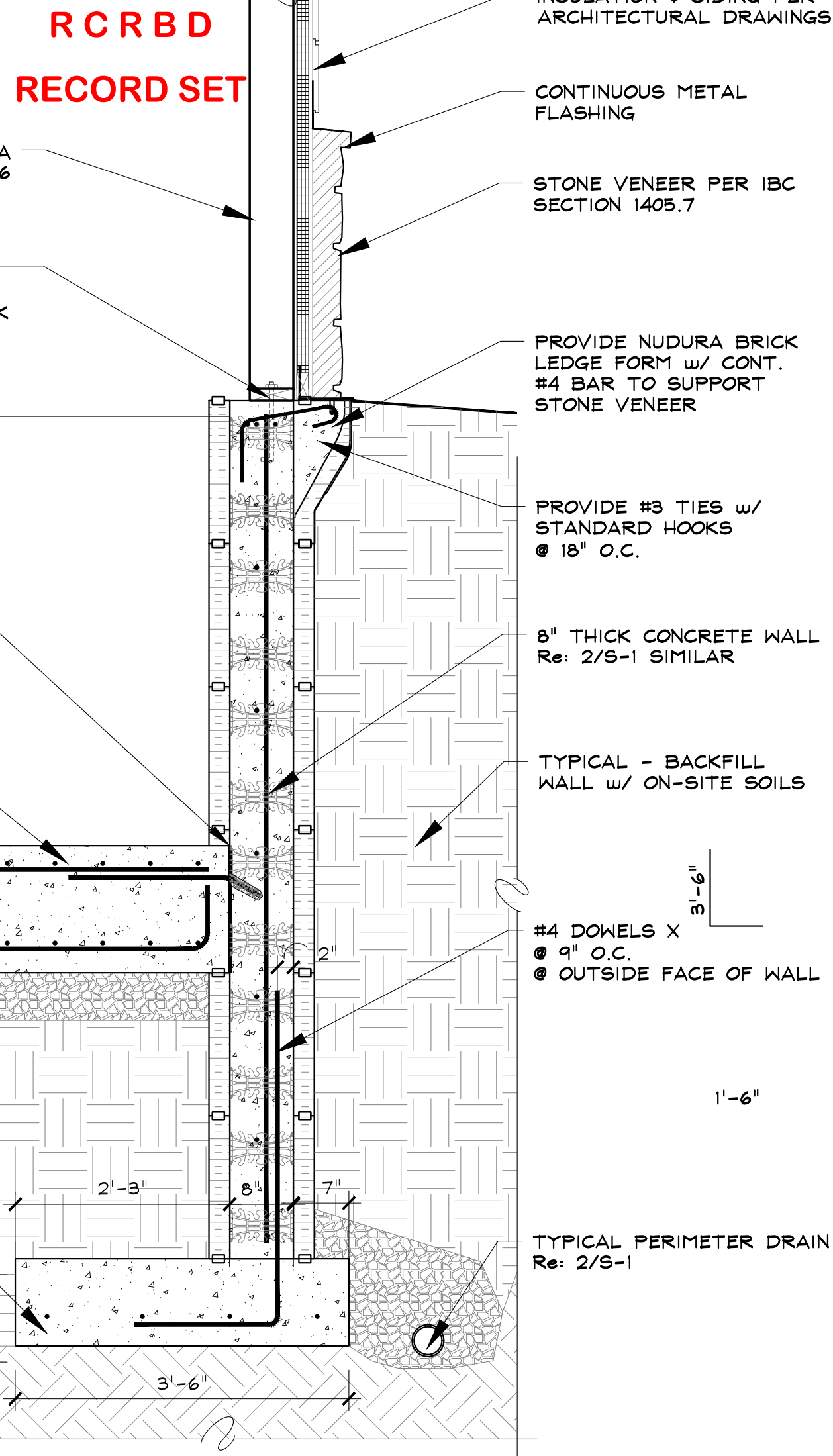


DROP TOP OF WEST WALL 1'-4" & ADD BENT #4 BARS X 2'-0"X 2'-0" @ 18" O.C. - FOUR SLAB OVER WALL Re: 2/S-1

(3) 1 1/2"X5 1/2" LVL's w/ HTT4 HOLDOWN

(3) 1 1/2"X5 1/2" LVL's w/ HTT4 HOLDOWN

(3) 1 1/2"X5 1/2" LVL's w/ HTT4 HOLDOWN



INSULATION & SIDING PER ARCHITECTURAL DRAWINGS

CONTINUOUS METAL FLASHING

STONE VENEER PER IBC SECTION 1405.7

PROVIDE NUDURA BRICK LEDGE FORM w/ CONT. #4 BAR TO SUPPORT STONE VENEER

PROVIDE #3 TIES w/ STANDARD HOOKS @ 18" O.C.

8" THICK CONCRETE WALL Re: 2/S-1 SIMILAR

TYPICAL - BACKFILL WALL w/ ON-SITE SOILS

#4 DOWELS X 3'-6" @ 9" O.C. @ OUTSIDE FACE OF WALL

TYPICAL PERIMETER DRAIN Re: 2/S-1

ALPINE COASTER UPPER BUILDING

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO

A NEW BUILDING FOR:

SSRC - STEAMBOAT SKI & RESORT CORP.

SSRC
Steamboat Engineering & Architectural Design, Inc.
2740 Acme Lane Suite 'E' Steamboat Springs, CO 80467
Phone 970.871.8711 Fax 970.871.9089
E-mail: Steve@ssrcinc.com

ISSUE DATES

PROGRESS
07.06.16
PERMIT
08.03.16

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PROJECT # 16020

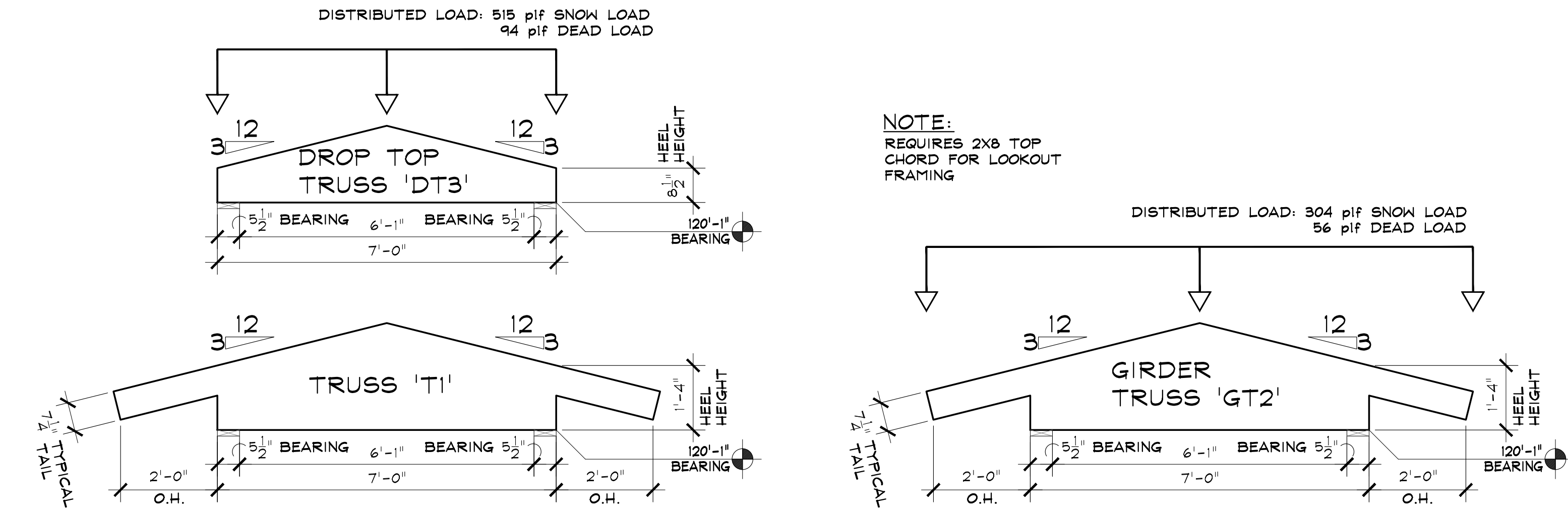
FOUNDATION
PLAN & NOTES

S-1

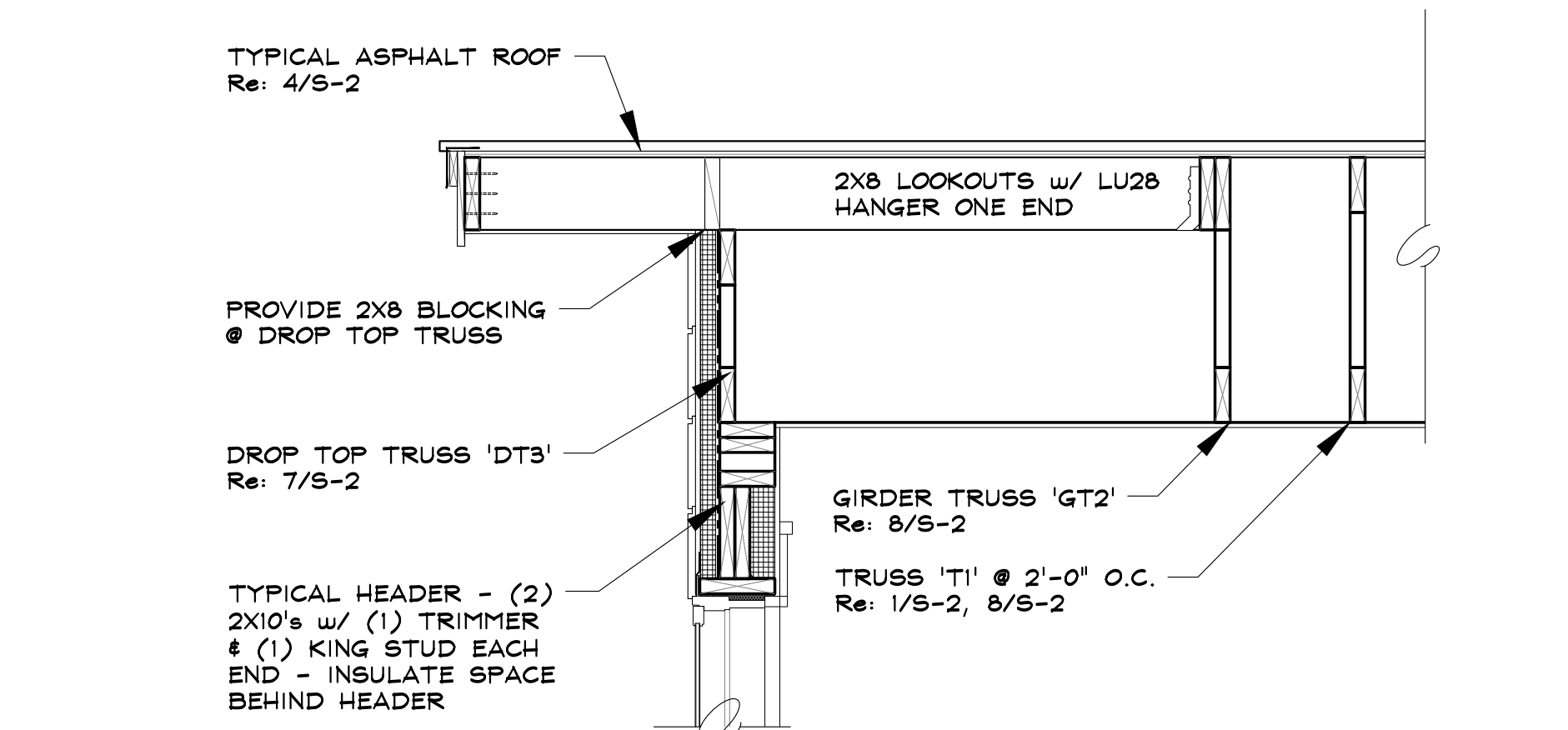
SHEET 5 of 6

Z:\2016\16020_SSRC Alpine Coaster Drawings\Struct\Upper Building\16020_StructSheets_Ult.dwg, S-2, 8/3/2016 12:50:09 PM

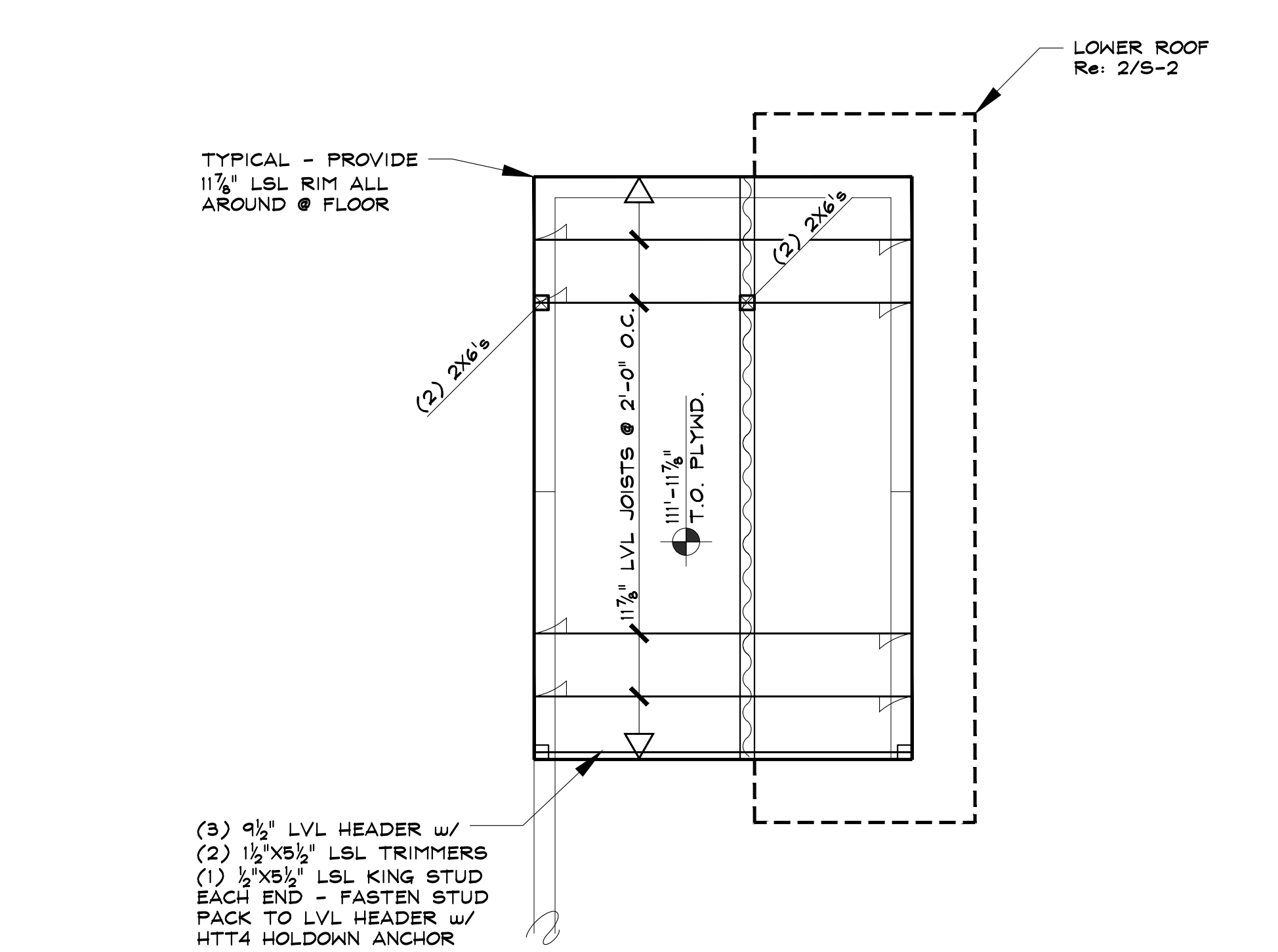
8 MANUFACTURED TRUSS SCHEMATICS



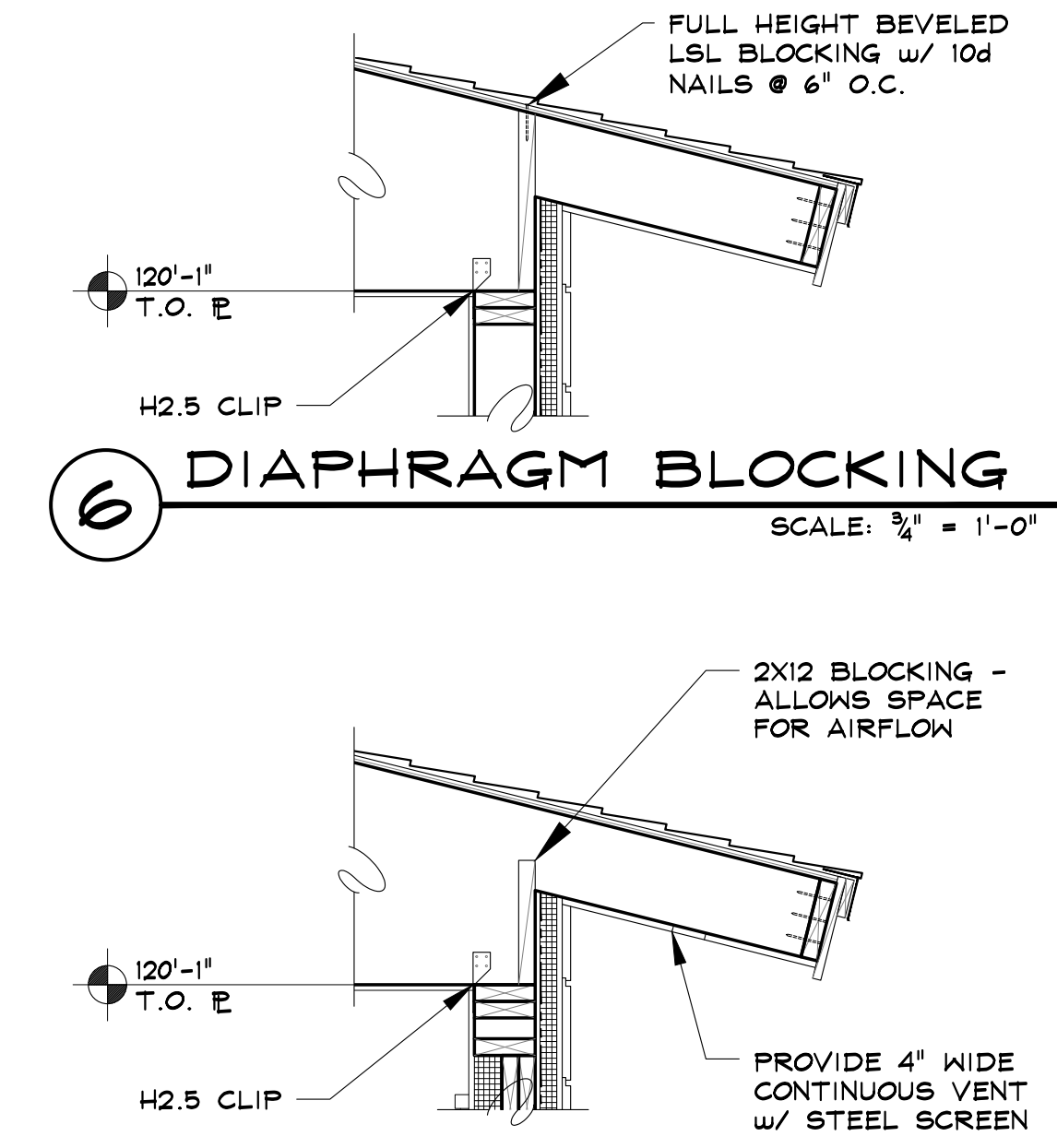
7 SECTION THROUGH LOOKOUT



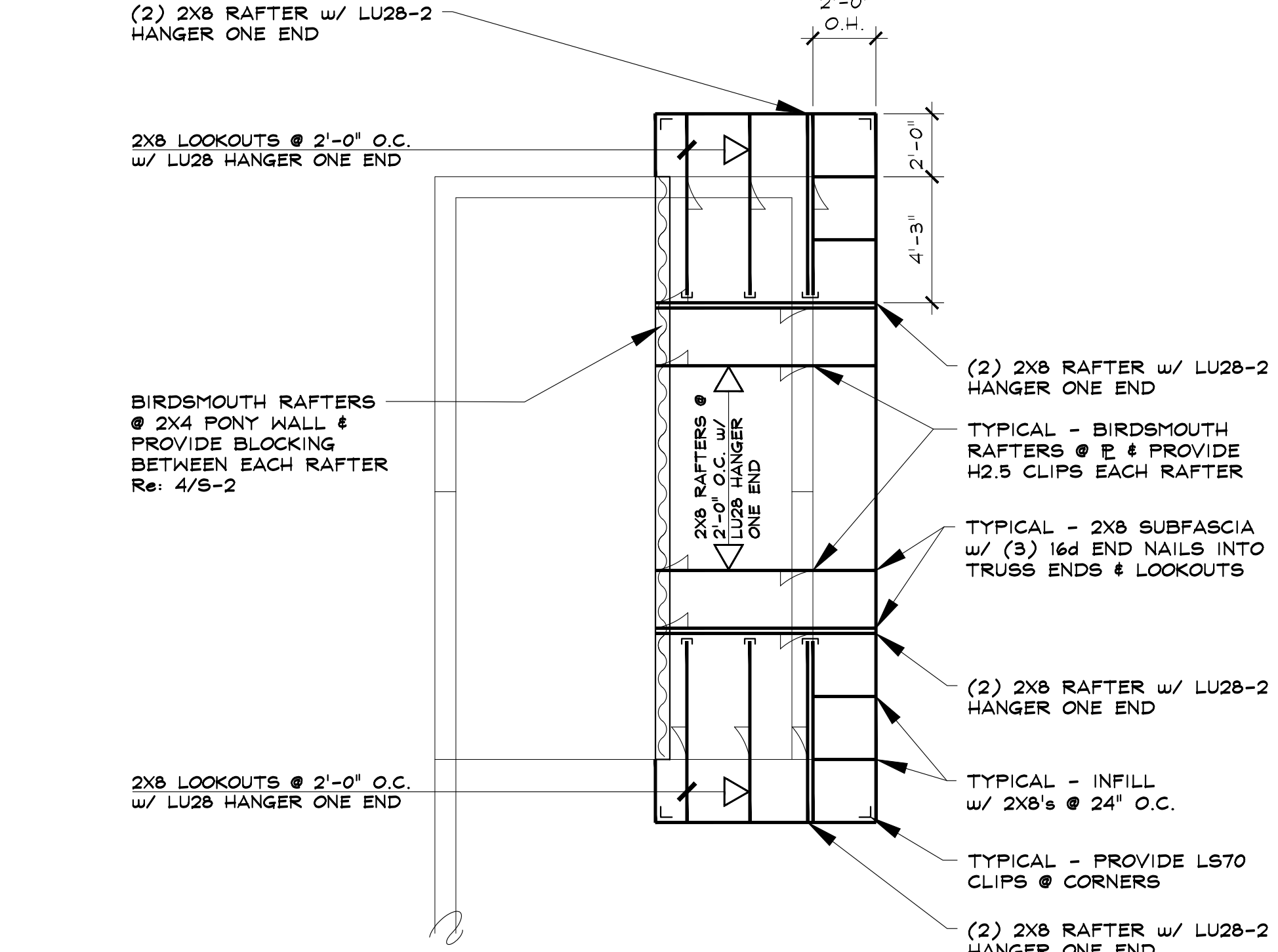
3 MAIN FLOOR FRAMING PLAN



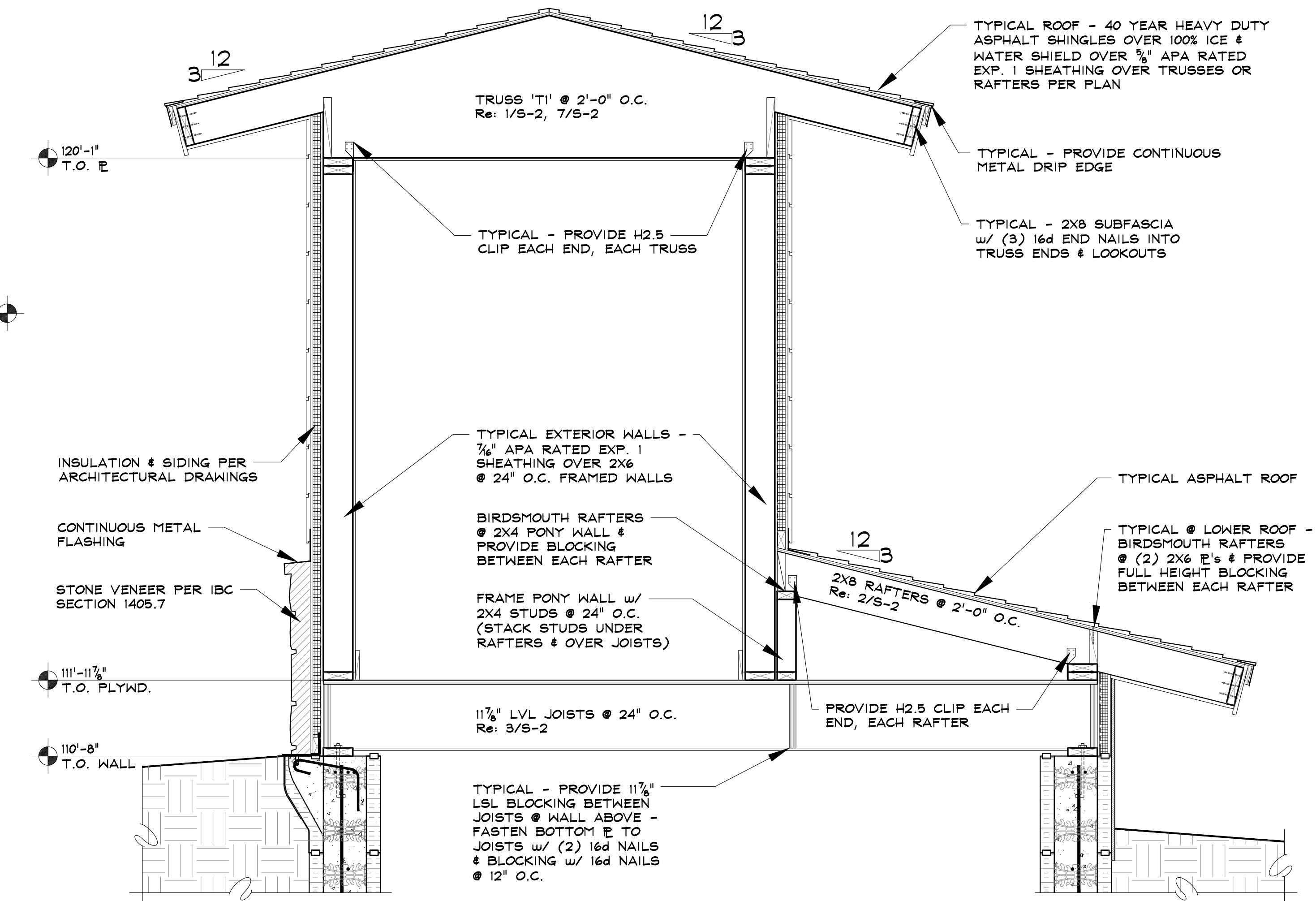
5 TYP. TRUSS SECTION



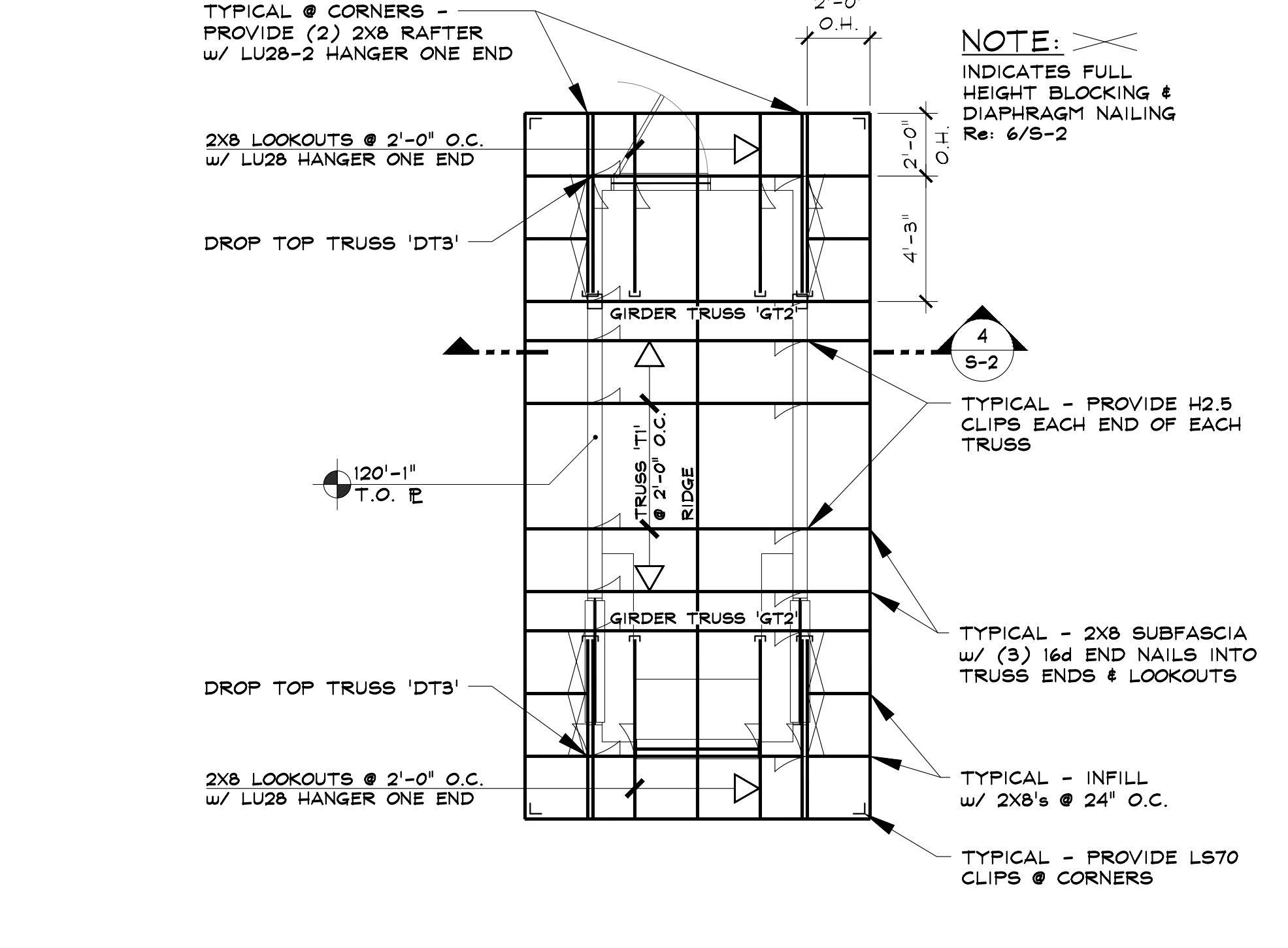
2 LOWER ROOF FRAMING PLAN



4 BUILDING SECTION w/ DIAPHRAGM NAILING



1 UPPER ROOF FRAMING PLAN



R C R B D
RECORD SET

ALPINE COASTER UPPER BUILDING

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO

A NEW BUILDING FOR:

SSRC - STEAMBOAT SKI & RESORT CORP.

SEAD
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ISSUE DATES
PROGRESS
07.06.16
PERMIT
08.03.16

DRAWN BY:
SJM/JEM
PROJECT # 16020

FRAMING PLANS

S-2

SHEET 6 of 6

ARCHITECTURAL NOTES

All work must comply with state and local codes, based on the Routt County Zoning Regulations, the 2009 International Building Code, the 2009 International Residential Code, the International Plumbing Code, the International Mechanical Code, the Energy Conservation Code and the International Electric code. The contractor shall comply with all laws, ordinances, rules and regulations of any public authority bearing on the performance of the work, including O.S.H.A.

Location of the utilities (electrical, telephone, cable TV, gas, water, sewer) shall be verified before construction begins.

All on site construction safety and construction means and methods are the responsibility of the contractor. There is no implication of the construction safety requirements or building methods contained in these drawings.

All interior and exterior dimensions are to face of stud or face of concrete, U.N.O.

Do not scale drawings.

Actual site conditions may require that some of the components of the work should be done differently than shown on these drawings. All dimensions and conditions to be verified by the contractor prior to construction. Verify changes with the designer and engineer.

These drawings represent a simplified builder's set of plans. Additional detailing may be required of the engineer during construction.

If any discrepancies are found in these drawings notify engineer and/or designer immediately.

Any variation which requires a physical change from these plans must be brought to the attention of the designer and engineer in order to maintain the design intent of the project.

All work connected with this project by any trade involved shall be of the highest quality attainable in accordance with the professional practice of the trade.

Open sides of stairways, landings, ramps, balconies and porches which are more than 30" above grade shall be protected by a guardrail. All guardrails must be 36" above finished floor and shall allow no more than a 4" diameter sphere to pass through any portion of the railing per 2009 IRC R312.

Habitable spaces within dwelling units shall have natural light provided by exterior openings equal to 8% of the floor area. Natural ventilation shall be provided by means of operable exterior openings equal to 4% of the floor area.

The water closet stool shall be located in a clear space of not less than 30" in width. The clear space in front of the water closet stool shall be not less than 21".

All exterior walls are nominal 2x6 stud construction, U.N.O. All interior walls are nominal 2x4 stud construction, U.N.O.

The surface of exterior stairs shall be slip resistant.

Provide Grace 'Ice and water shield', or equivalent product, from the edge of roof overhangs to the ridge.

Walls and ceilings of enclosed usable space under stairs requires 1/2" gypsum wallboard. The door to access such spaces need not be rated.

Provide smoke detection per 2009 IRC section R314.

DOOR & HARDWARE SCHEDULE

NO.	LOCATION	ROUGH OPENING		DOOR SIZE	JAMB THICK.	FIRE RATING	FRAME	DOOR HAND	REMARKS
		WIDTH	HEIGHT						
1	CONTROL ROOM	3'-2"	6'-10"	306B	6 9/16"	N/A	STAIN GRADE WOOD	LEFT	EXT. w/ CLAD FRAME

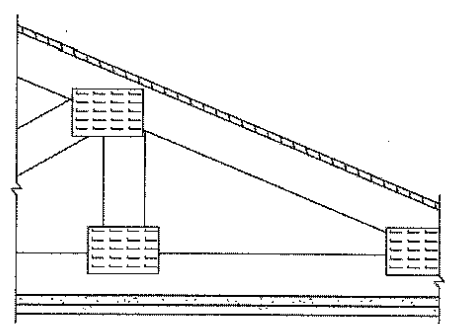
NOTE: VERIFY ALL ROUGH OPENINGS

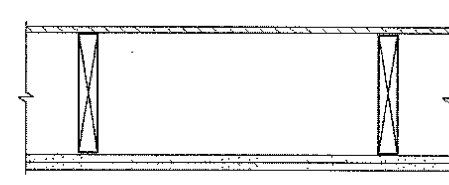
WINDOW SCHEDULE

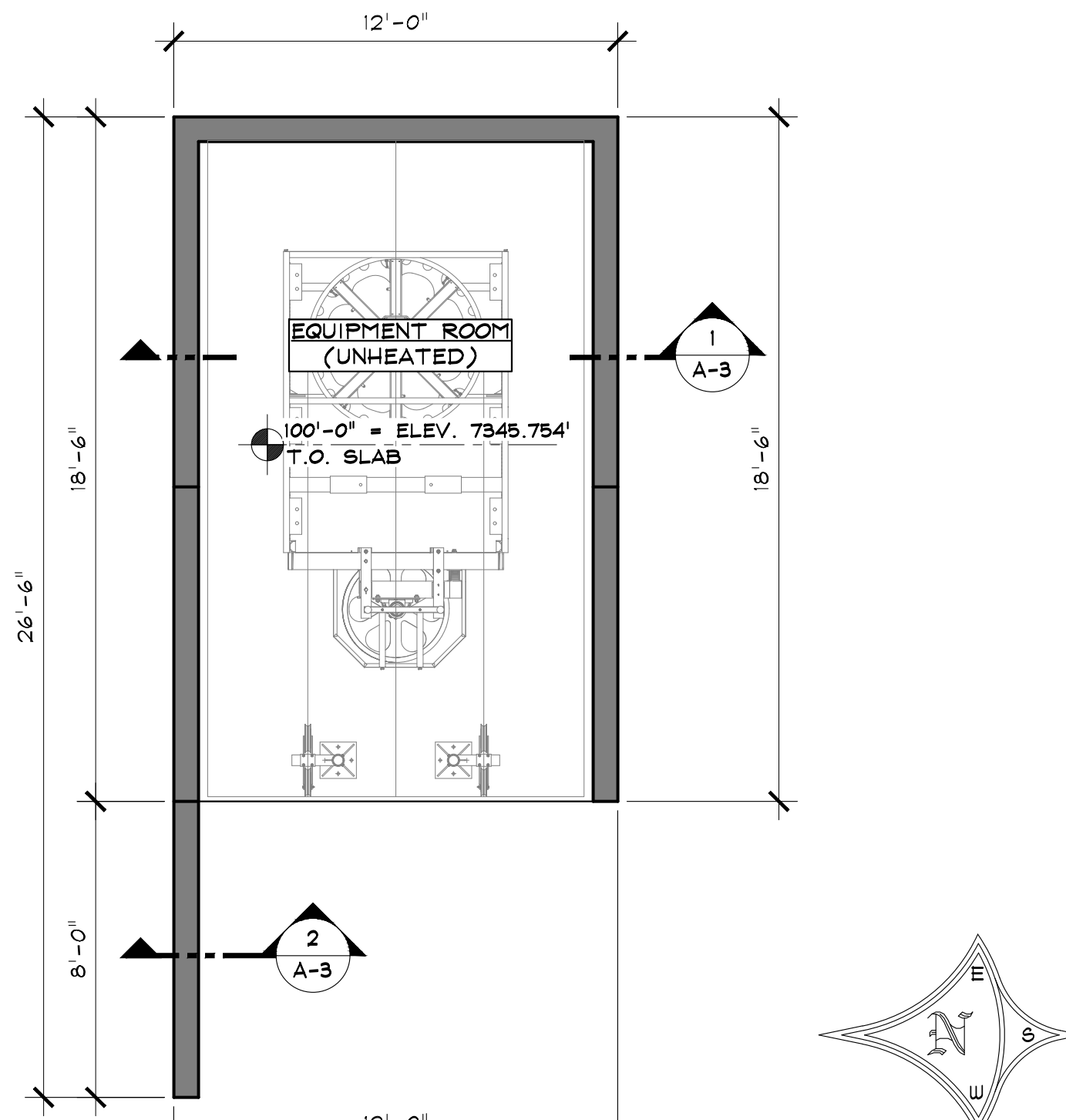
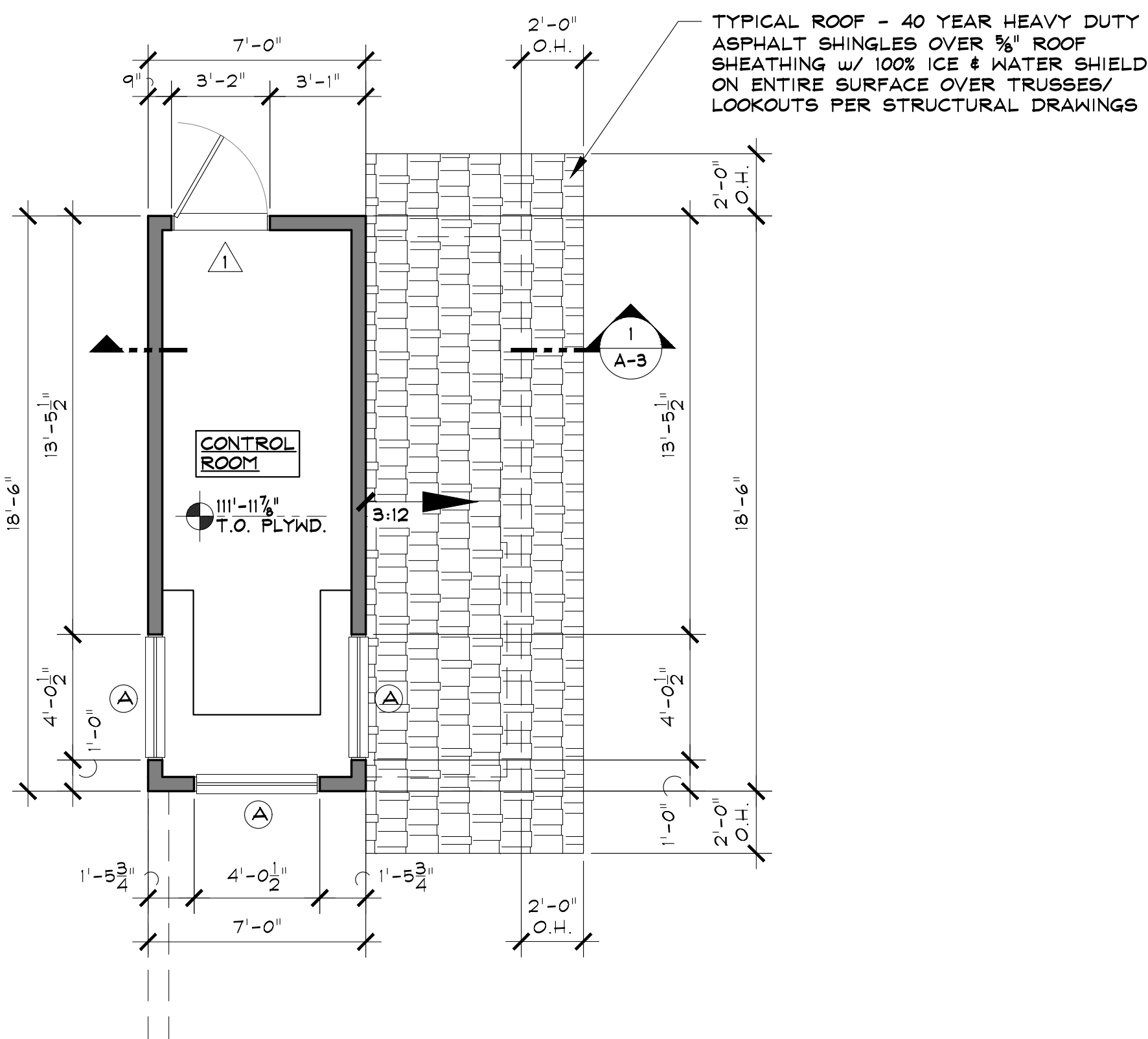
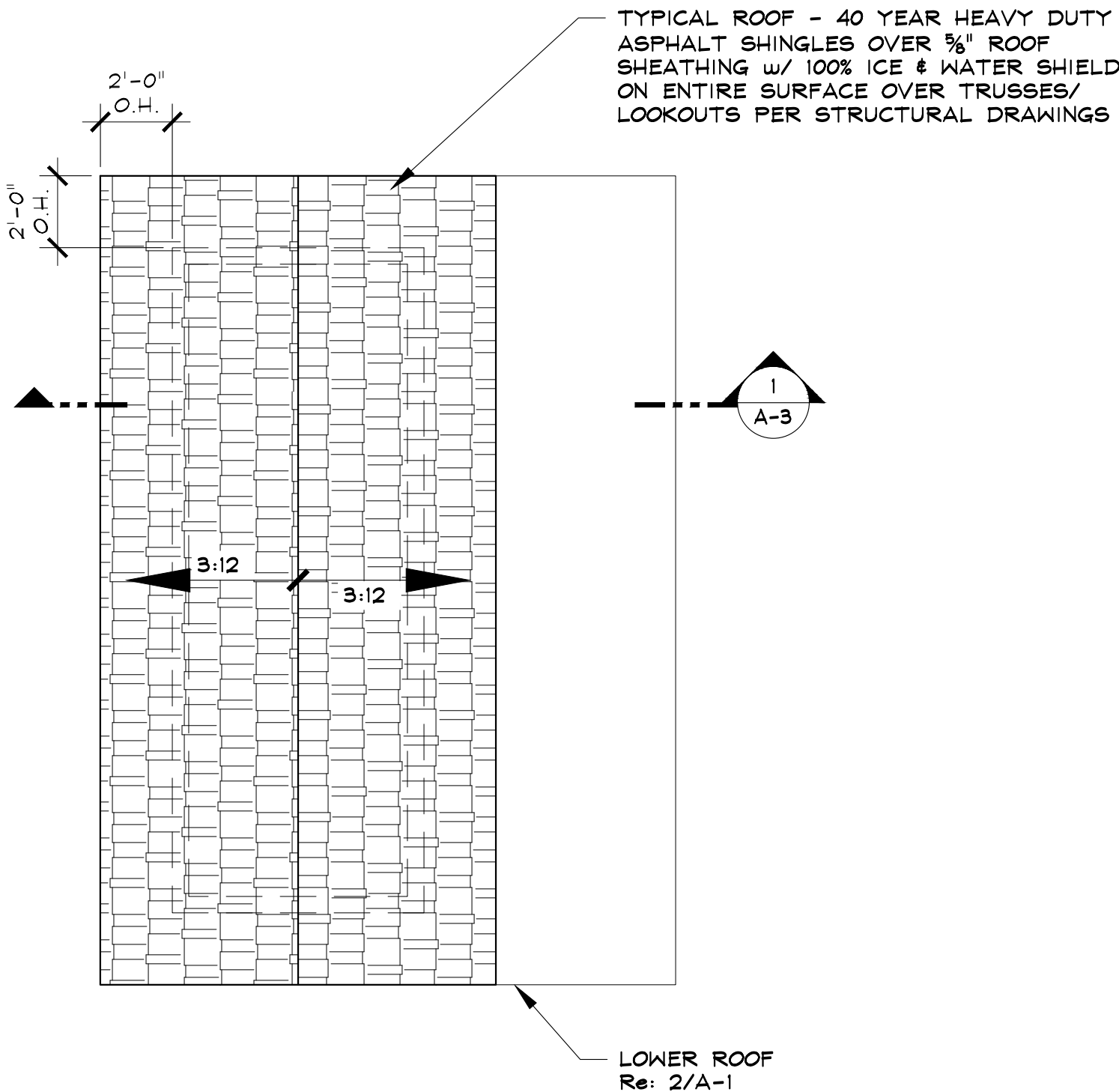
NO.	MANUFACTURER	QTY.	UNIT DIMENSION		ROUGH OPENING		FUNCTION	DIRECTION (HAND)	BOTTOM OF HEADER	REMARKS
			WIDTH	HEIGHT	WIDTH	HEIGHT				
A	T.B.D.	3	4'-0"	3'-0"	4'-0 1/2"	3'-0 1/2"	SLIDER	N/A	6'-10" ABV. PLYWD.	

NOTE: VERIFY ALL ROUGH OPENINGS

COMMERCIAL ENERGY CODE STANDARDS											
Re: 2009 International Energy Conservation Code Table 502.2(1)											
BUILDING ENVELOPE REQUIREMENTS - OPAQUE BUILDINGS											
Climate Zone 7	Roofs			Walls Above Grade			Walls Below Grade	Floors	Slab-on-Grade Floors	Opaque Doors	
	Insulation entirely above deck	Metal buildings (w/ r-5 thermal blocks) ^a	Attic & other	Mass	Metal Building ^b	Metal Framed	Wood Framed & Other		Unheated Slabs	Heated Slabs	Swinging
Group R	R-25ci	R-19 + R-10	R-3B	R-15.2ci	R-19 + R-5.6ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-16.7ci	R-30	R-15 for 24in. below	R-20 for 48in. below
All other	R-25ci	R-13 + R-19	R-3B	R-15.2ci	R-13 + R-5.6ci	R-13 + R-7.5ci	R-13 + R-7.5ci	R-15ci	R-30	R-15 for 24in. below	R-20 for 24in. below
a	Thermal blocks are a minimum R-5 of rigid insulation, which extends 1 inch beyond the width of the purlin on each side, perpendicular to the purlin.										
b	Assembly descriptions can be found in Table 502.2(2)										
c	R-5.7 ci may be substituted with concrete block walls complying with ASTM C 90, ungrouted or partially grouted at 32 inches or less on center vertically and 48 inches or less on center horizontally, with ungrouted cores filled with material having a maximum thermal conductivity of 0.44 Btu-in./h.-ft. ² F.										
d	When heated slabs are placed below grade, below grade walls must meet the exterior insulation requirements for perimeter insulation according to the heated slab-on-grade construction.										
e	Insulation is not required for mass walls in Climate Zone 3A located below the "Warm-Humid" line, and in Zone 3B.										

ROOF-CEILING SYSTEMS		
GA FILE NO. RC 2602	GENERIC	1 HOUR FIRE
WOOD TRUSSES, GYPSUM WALLBOARD Base layer 5/8" type X gypsum wallboard applied at right angles to wood roof trusses 24" o.c. with 1-1/4" Type W or S drywall screws 24" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to trusses with 1-7/8" Type W or S drywall screws 12" o.c. at joints and intermediate trusses and 1-1/2" Type G drywall screws 12" o.c. placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Wood trusses supporting 1/2" wood structural panels applied at right angles to trusses with 8d nails. Appropriate roof covering. Ceiling provides one-hour fire-resistance protection for trusses.		
		
Approx. Ceiling Weight: 5 psf Fire Test: FM FC 172, 2-25-72; ITS, 8-6-98		

GA FILE NO. FC 5529	GENERIC	1 HOUR FIRE
WOOD JOISTS, GYPSUM WALLBOARD Base layer 5/8" type X gypsum wallboard applied at right angles to 2 x 10 wood joists 24" o.c. with 1-1/4" Type W or S drywall screws 24" o.c. Face layer 5/8" type X gypsum wallboard or gypsum veneer base applied at right angles to joists with 1-7/8" Type W or S drywall screws 12" o.c. at joints and intermediate joists and 1-1/2" Type G drywall screws 12" o.c. placed 2" back on either side of end joints. Joints offset 24" from base layer joints. Wood joists supporting 1/2" plywood with exterior glue applied at right angles to joists with 8d nails. Ceiling provides one-hour fire-resistance protection for framing, including trusses.		
		
Approx. Ceiling Weight: 5 psf Fire Test: FM FC 172, 2-25-72; ITS, 8-6-98		



3 UPPER ROOF PLAN

SCALE: 1/4" = 1'-0"

2 MAIN LEVEL FLOOR / LOWER ROOF PLAN

129.5 SQ. FT. CONTROL ROOM

SCALE: 1/4" = 1'-0"

1 LOWER LEVEL FLOOR PLAN

222 SQ. FT. UNHEATED EQUIPMENT ROOM

SCALE: 1/4" = 1'-0"

ALPINE COASTER UPPER BUILDING

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO
A NEW BUILDING FOR:
SSRC - STEAMBOAT SKI & RESORT CORP.

ISSUE DATES

PRGRESS
07 . 06 . 16
PERMIT
08 . 03 . 16
08 . 11 . 16

DRAWN BY:
SJM/JEM
PROJECT # 16020

UPPER BUILDING
FLOOR PLANS

A-1

SHEET 2 of 6

THERMAL ENVELOPE NOTES

THE BUILDING ENVELOPE SHALL BE DURABLY SEALED TO LIMIT INFILTRATION. THE SEALING METHODS BETWEEN DISSIMILAR MATERIALS SHALL ALLOW FOR DIFFERENTIAL EXPANSION AND CONTRACTION. THE FOLLOWING SHALL BE CAULKED, GASKETED, WEATHER-STRIPPED, OR OTHERWISE SEALED WITH A BARRIER MATERIAL, SUITABLE FILM, OR SOLID MATERIAL:

1. ALL JOINTS, SEAMS, AND PENETRATIONS
2. SITE-BUILT WINDOWS, DOORS, & SKYLIGHTS
3. OPENINGS BETWEEN WINDOW & DOOR ASSEMBLIES
4. UTILITY PENETRATIONS
5. DROPPED CEILINGS & CHASES ADJACENT TO THE THERMAL ENVELOPE
6. KNEE WALLS
7. WALLS & CEILING SEPARATING A GARAGE FROM CONDITIONED SPACES
8. BEHIND TUBS & SHOWERS OF EXTERIOR WALLS
9. BEHIND FIREPLACE INSERTS
10. ANY OTHER SOURCE OF INFILTRATION

WINDOWS, SKYLIGHTS, & SLIDING DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.3 cfm PER SQUARE FOOT. SWINGING DOORS SHALL HAVE AN AIR INFILTRATION RATE OF NO MORE THAN 0.5 cfm PER SQUARE FOOT.

RECESSED LUMINARIES INSTALLED IN THE BUILDING THERMAL ENVELOPE SHALL BE SEALED TO LIMIT AIR LEAKAGE BETWEEN CONDITIONED & UNCONDITIONED SPACES BY BEING:

- a. RATED & LABELED WITH ENCLOSURES THAT ARE SEALED OR GASKETED TO PREVENT AIR LEAKAGE TO THE CEILING CAVITY OR UNCONDITIONED SPACE

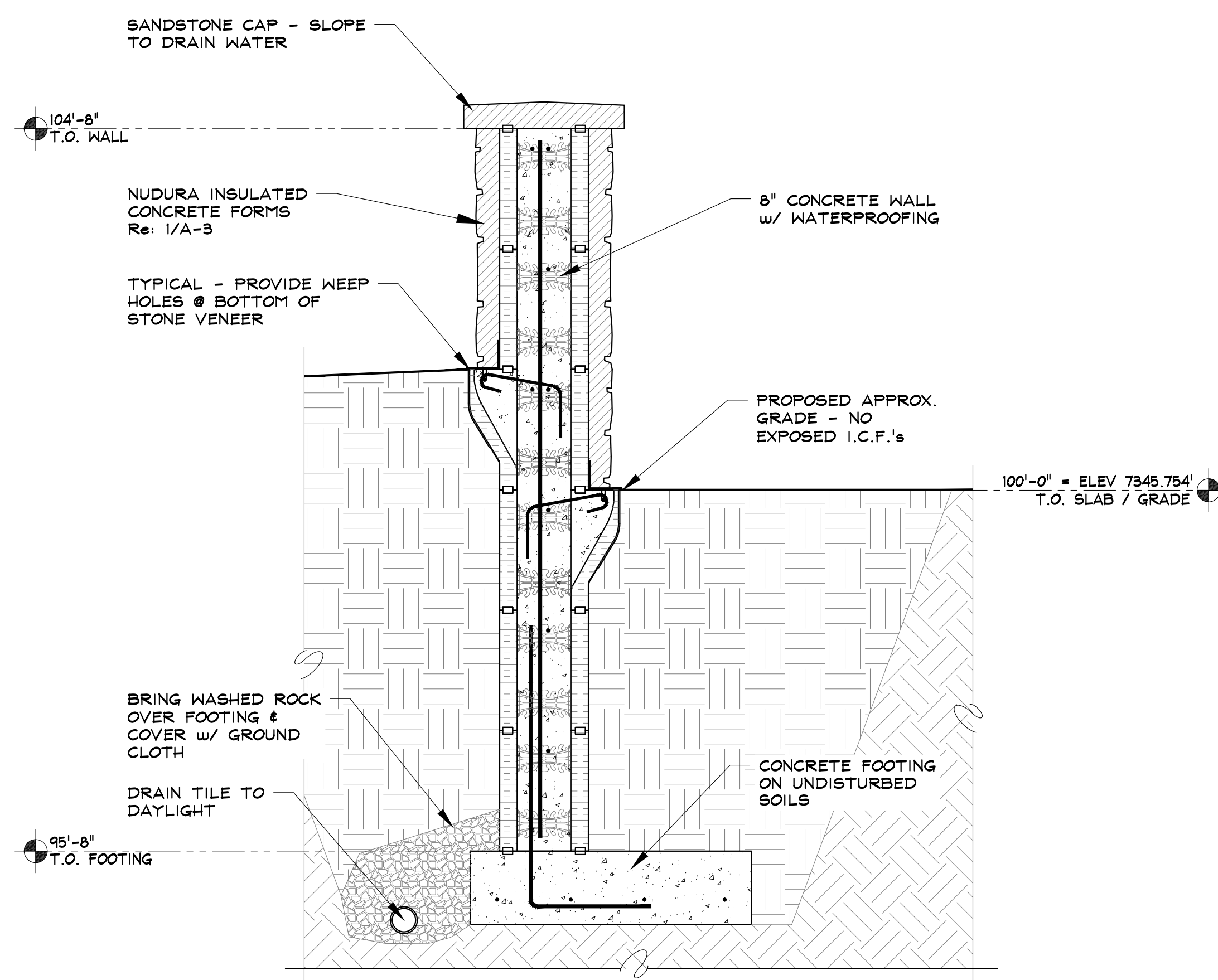
ABOVE GRADE FRAME WALLS, FLOORS, & CEILINGS NOT VENTILATED TO ALLOW MOISTURE TO ESCAPE SHALL BE PROTECTED WITH LATEX PAINT OR 6 MIL. POLY OVERLAPPED & TAPERED AT ALL JOINTS. THE VAPOR RETARDER SHALL BE INSTALLED ON THE WARM-IN-WINTER SIDE OF THE THERMAL ENVELOPE.

NOTE:

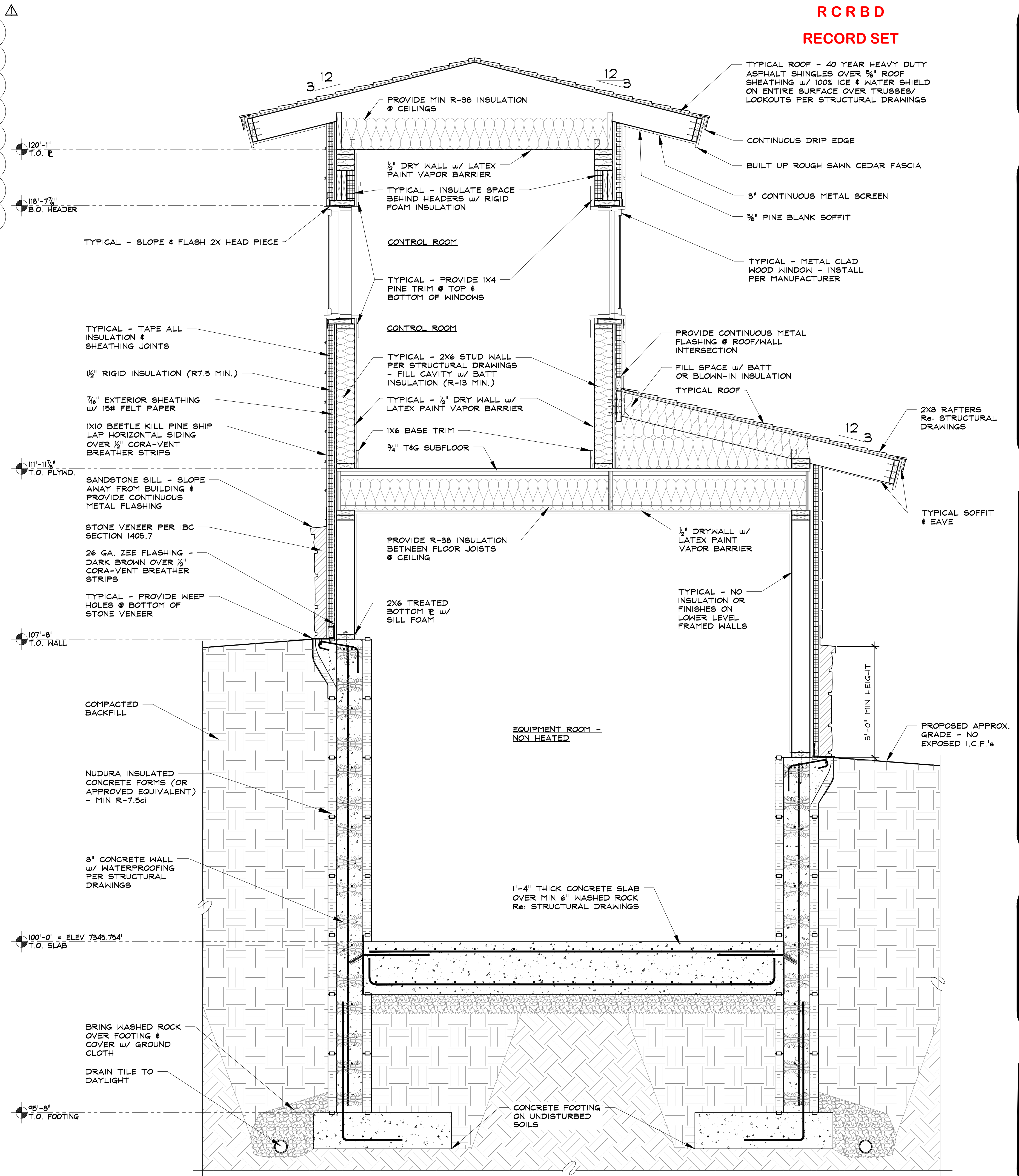
ALL EXTERIOR WALLS SHALL BE 1hr. FIRE RATED PER GA FILE NO. WP8126
Re: SHEET A-1

ROOF/CEILING SHALL BE 1 hr. FIRE RATED PER GA FILE NO. RC2602
Re: SHEET A-1

FLOOR/CEILING SHALL BE 1hr. FIRE RATED PER GA FILE NO. FC5529
Re: SHEET A-1
(LVL JOISTS CAN BE SUBSTITUTED FOR DIMENSIONAL LUMBER PER TJI BULLETIN #1500, FIRE RATED ASSEMBLIES, PAGE 14)



2 RETAINING WALL SECTION



1 BUILDING SECTION

SCALE: 3/4" = 1'-0"

RCRBD
RECORD SET

SEAD
Steamboat Engineering & Architectural Design, Inc.
2740 Acute Lane Suite 103 Steamboat Springs, CO 80487
Phone: 970.871.3111 Fax: 970.871.9089
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ALPINE COASTER UPPER BUILDING

2305 MT. WERNER CIRCLE
STEAMBOAT SPRINGS, COLORADO

A NEW BUILDING FOR:
SSRC - STEAMBOAT SKI & RESORT CORP.

ISSUE DATES

PROGRESS
07.06.16
PERMIT
08.03.16
08.11.16

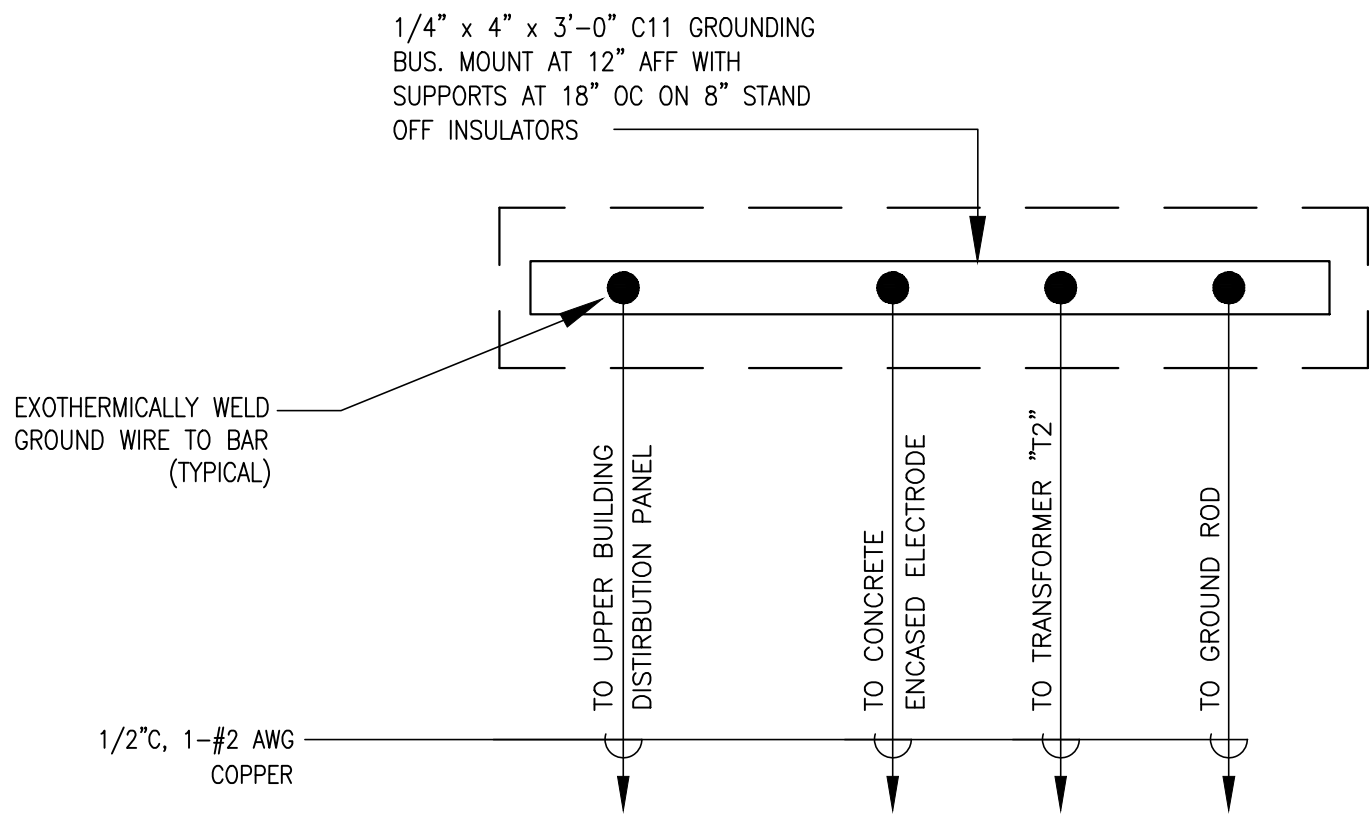
DRAWN BY:
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PROJECT # 16020

BUILDING SECTION

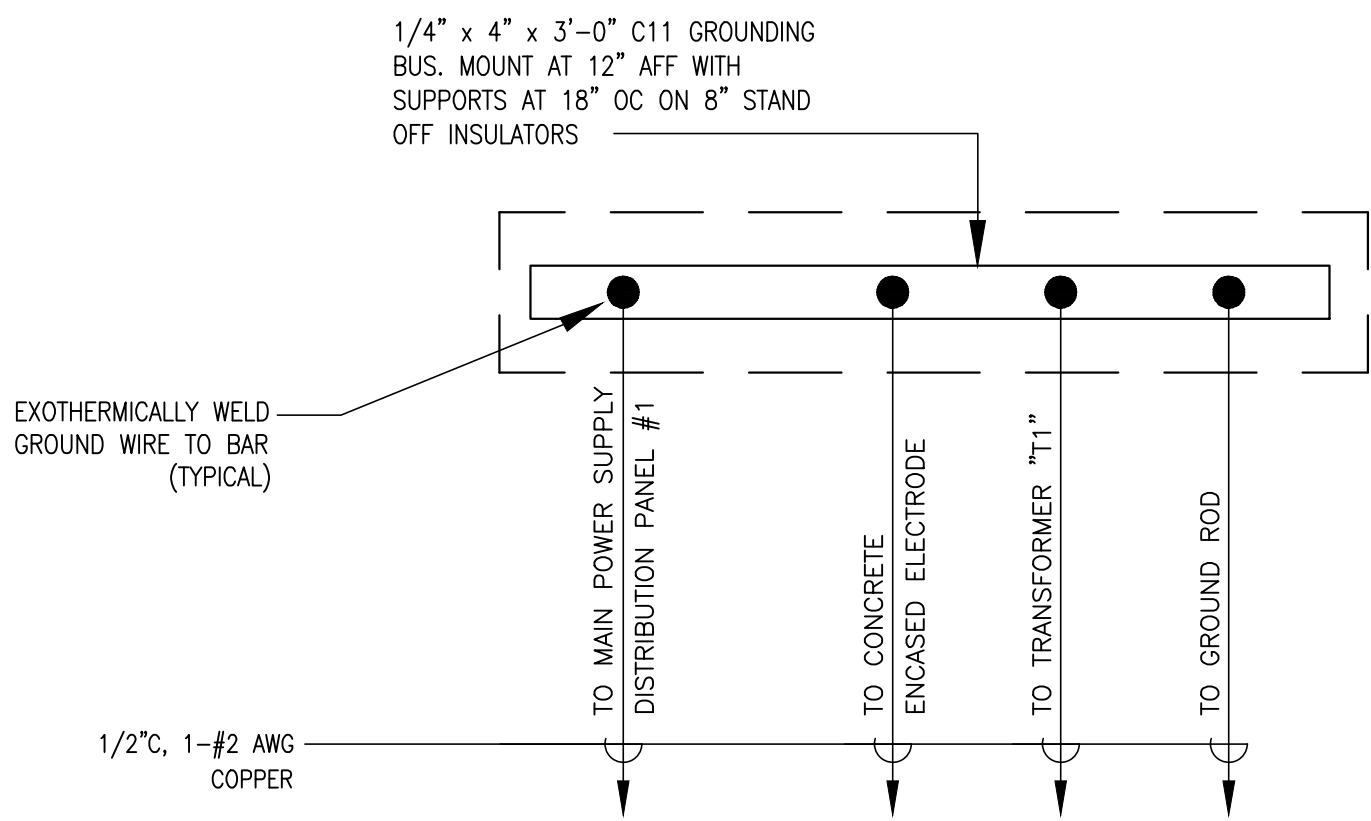
A-3

SHEET 4 of 6

SCALE: 3/4" = 1'-0"



4 GROUND BAR WIRING DETAIL – TOP
NTS



2 GROUND BAR WIRING DETAIL – BASE
NTS

SHEET LIST	
E1.0	SYMBOL LIST, SCHEDULES AND SINGLE LINE DIAGRAM
E1.1	PANEL SCHEDULES
E2.0	ELECTRICAL FLOOR PLANS
E3.0	SPECIFICATIONS

SYMBOLS	POWER SYMBOLS	NOTES
	MOTOR OUTLET	
	FUSED DISCONNECT SWITCH SWITCH XX/XX/XX = AMP SWITCH/POLES/AMP FUSE	
	HEAVY DUTY NON-FUSED DISCONNECT SWITCH SWITCH XX/XX = AMP SWITCH/POLES	
	COMBINATION MOTOR STARTER	
	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD	
	STATIONARY – CIRCUIT BREAKER; RATING AS SHOWN ON PLANS	
	SWITCH AND FUSE; RATING AS SHOWN ON PLANS	
	SWITCH AND FUSE; RATING AS SHOWN ON PLANS	
	JUNCTION BOX	
	SURFACE MOUNTED PANELBOARD OR TERMINAL CABINET	

GENERAL NOTES	
1.	ALL WORK SHOWN IS NEW, UNLESS NOTED OTHERWISE.
2.	ALL WORK TO BE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE, 2014 EDITION.
3.	SEAL ALL CONDUIT PENETRATIONS OF FLOORS AND FIRE RATED ASSEMBLIES TO MAINTAIN FIRE RATING.
4.	PROVIDE NEW TYPEWRITTEN DIRECTORIES REFLECTING WORK PERFORMED FOR ALL NEW PANELBOARDS IN THIS PROJECT.
5.	PLANS ARE PREPARED WITH REQUIRED BRANCH CIRCUITS INDICATED BY CIRCUIT NUMBERS. PROVIDE AND INSTALL ALL CONDUITS, CONDUCTORS, BOXES, MISCELLANEOUS FITTINGS, ETC. FOR A COMPLETE AND OPERABLE SYSTEM (HOMERUN SHOWN). BRANCH CIRCUIT INSTALLATION SHALL COMPLY WITH SPECIFICATIONS AND N.E.C.
6.	ALL NEUTRAL CONDUCTORS ON POWER BRANCH CIRCUITING ROUNDHOUSES TO BE #10 AWG UNLESS NOTED OTHERWISE.

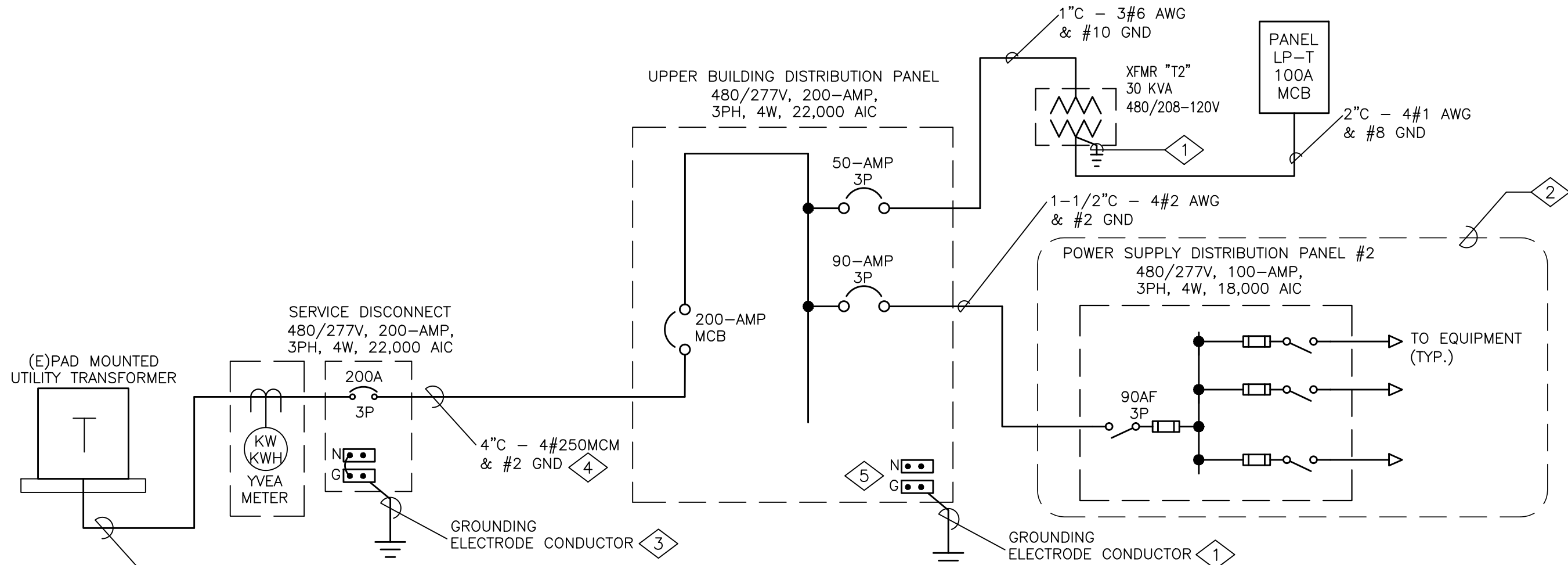


DIAGRAM NOTES

- ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED.
- BRING ANY DISCOVERED CODE VIOLATIONS TO THE OWNER'S ATTENTION.
- ALL WIRING SHOWN IS SIZED FOR COPPER CONDUCTORS, UON.

RISER NOTES

- SEE DETAIL #4 ON THIS SHEET FOR GROUNDING DETAILS OF NEW COASTER EQUIPMENT.
- POWER SUPPLY DISTRIBUTION BOARD #2 TO BE SUPPLIED BY COASTER VENDOR. VERIFY MAIN FUSE PROTECTION ON SITE MATCHES WHAT IS SHOWN ON DRAWINGS. NOTIFY DESIGN TEAM IF THERE IS A DIFFERENCE.
- BOND NEUTRAL TO GROUND BUS AND THEN TO A GROUND BAR. PROVIDE GROUND ROD AT 3/4" X 8' (COPPER CLAD STEEL).
- FEEDER UP-SIZED FOR VOLTAGE DROP.
- DO NOT BOND NEUTRAL TO GROUND BAR AT SERVICE ENTRANCE TO UPPER TERMINAL BUILDING.

3 SINGLE LINE DIAGRAM – MID-STATION OF CHRISTIE EXPRESS

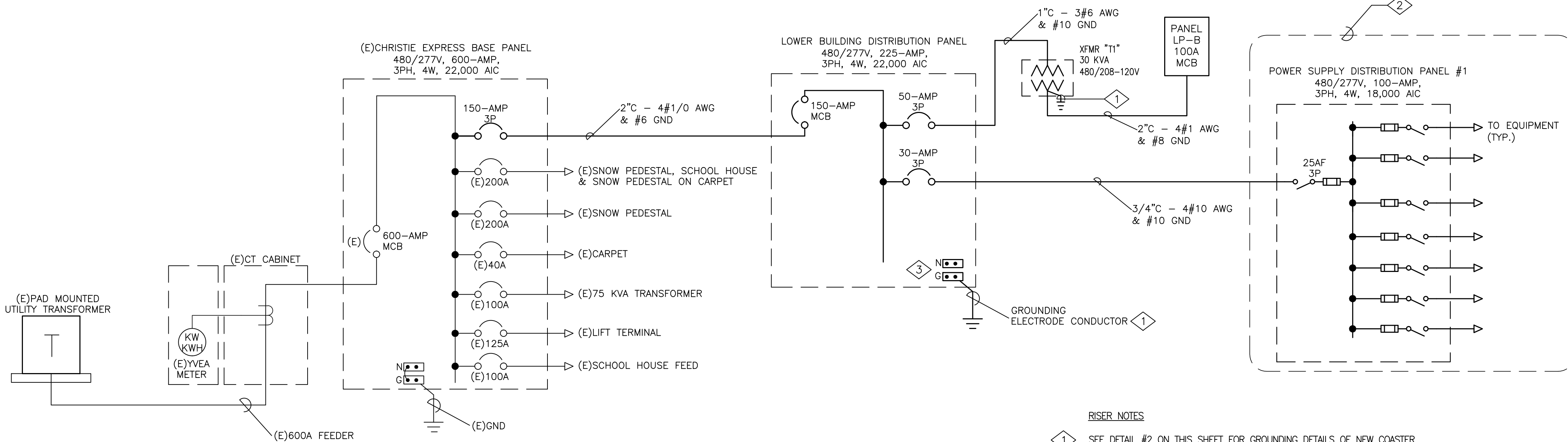


DIAGRAM NOTES

- ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED.
- BRING ANY DISCOVERED CODE VIOLATIONS TO THE OWNER'S ATTENTION.
- ALL WIRING SHOWN IS SIZED FOR COPPER CONDUCTORS, UON.

RISER NOTES

- SEE DETAIL #2 ON THIS SHEET FOR GROUNDING DETAILS OF NEW COASTER EQUIPMENT.
- POWER SUPPLY DISTRIBUTION BOARD #1 TO BE SUPPLIED BY COASTER VENDOR. VERIFY MAIN FUSE PROTECTION ON SITE MATCHES WHAT IS SHOWN ON DRAWINGS. NOTIFY DESIGN TEAM IF THERE IS A DIFFERENCE.
- DO NOT BOND NEUTRAL TO GROUND BAR AT SERVICE ENTRANCE TO LOWER TERMINAL BUILDING.

1 SINGLE LINE DIAGRAM – BASE OF CHRISTIE EXPRESS

ABBREVIATIONS		NOTES
A, AMP	AMPERE	
AIC	AMPERE INTERRUPTING CAPACITY	
AF	FRAME RATING IN AMPERES	
AS	SWITCH RATING IN AMPERES	
AT	TRIP RATING IN AMPERES	
AWG	AMERICAN WIRE GAUGE	
C	CONDUIT	
CKT	CIRCUIT	
(E)	EXISTING TO REMAIN	
EC	EMPTY CONDUIT	
ELEC	ELECTRICAL	
EMT	ELECTRO METALLIC TUBING	
FA	FIRE ALARM	
G, GND	GROUND	
HP	HORSEPOWER	
MECH	MECHANICAL	
MCB	MAIN CIRCUIT BREAKER	
(N)	NEW EQUIPMENT OR DEVICE	
NEC	NATIONAL ELECTRIC CODE	
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION	
NO	NORMALLY OPEN	
NTS	NOT TO SCALE	
Ø, PH	PHASE	
PNL	PANEL	
PVC	POLYVINYL CHLORIDE CONDUIT	
PWR	POWER	
RSC	RIGID STEEL CONDUIT	
(R)	RELOCATED EQUIPMENT	
TEL	TELEPHONE	
TYP	TYPICAL	
UON	UNLESS OTHERWISE NOTED	
V	VOLT	
VA	VOLT AMPERES	
W	WATT	
(X)	EXISTING TO BE DEMOLISHED	

SYMBOLS	WIRING DEVICE SYMBOLS
	20A, 125V, DUPLEX RECEPTACLE OUTLET +18" UNLESS NOTED OTHERWISE
	SURFACE 20A, 125V, DUPLEX RECEPTACLE OUTLET +18" UNLESS NOTED OTHERWISE
	20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET +18" UNLESS NOTED OTHERWISE
	SURFACE 20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET +18" UNO
	SPECIAL PURPOSE RECEPTACLE OUTLET, +18" UNLESS NOTED OTHERWISE, NEMA CONFIGURATION AS NOTED ON PLANS
	SURFACE SPECIAL PURPOSE RECEPTACLE OUTLET, +18" UNLESS NOTED OTHERWISE, NEMA CONFIGURATION AS NOTED ON PLANS
	20A, 125V, DEDICATED DUPLEX RECEPTACLE OUTLET +18" UON
	DUPLEX OUTLET WITH GROUND FAULT INTERRUPTER
	CEILING MOUNTED 20A, 125V, DUPLEX RECEPTACLE OUTLET
	CEILING MOUNTED 20A, 125V, DOUBLE DUPLEX RECEPTACLE OUTLET
	SPST WALL SWITCH, LETTERS INDICATE THE NUMBER OF SWITCHES AND OUTLETS THEY CONTROL
	DIMMER SWITCH
	OCCUPANCY LIGHT CONTROL SWITCH; WALL MOUNTED

SYMBOLS	TELECOMMUNICATION
	COMBINATION (1) PORT TELEPHONE AND (1) PORT DATA OUTLET, +18" UNLESS NOTED OTHERWISE.

SYMBOLS	DESIGNATION SYMBOLS	NOTES
	FIXTURE DESIGNATION UPPER CASE LETTER INDICATES FIXTURE TYPE. LOWER CASE LETTER INDICATES SWITCH LEG NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN).	
	LETTER INDICATES FIXTURES CONTROL (WHERE SHOWN)	
	NUMBER INDICATES CIRCUIT NUMBER (WHERE SHOWN)	

SSRC ALPINE COASTER

2305 Mt. Werner Circle
Steamboat Springs, CO

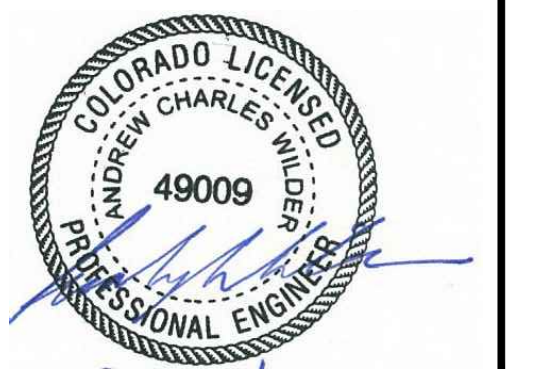
STEAMBOAT SKI & RESORT CORP

2305 Mt. Werner Circle
Steamboat Springs, CO

R C R B D
RECORD SET
ELECTRICAL



WILDER ENGINEERING LLC
Andrew Wilder PE
1170 Blue Sage Drive
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E: andy@wilder-eng.com



Issue	By	Date & Issue Description	By
-	PERMIT SET	- 8.29.16	AW

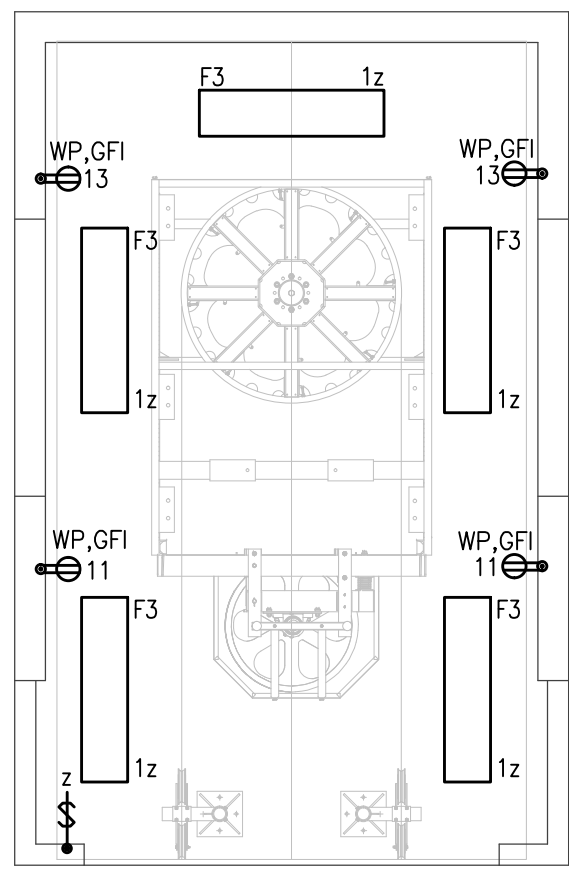
Scale: 24x36 NTS	Description: LEGEND, SINGLE LINE DIAGS
Project Name: ALPINE COASTER	Project Number: 201658
Sheet No.	E1.0

BUILDINGS SHEET NOTES

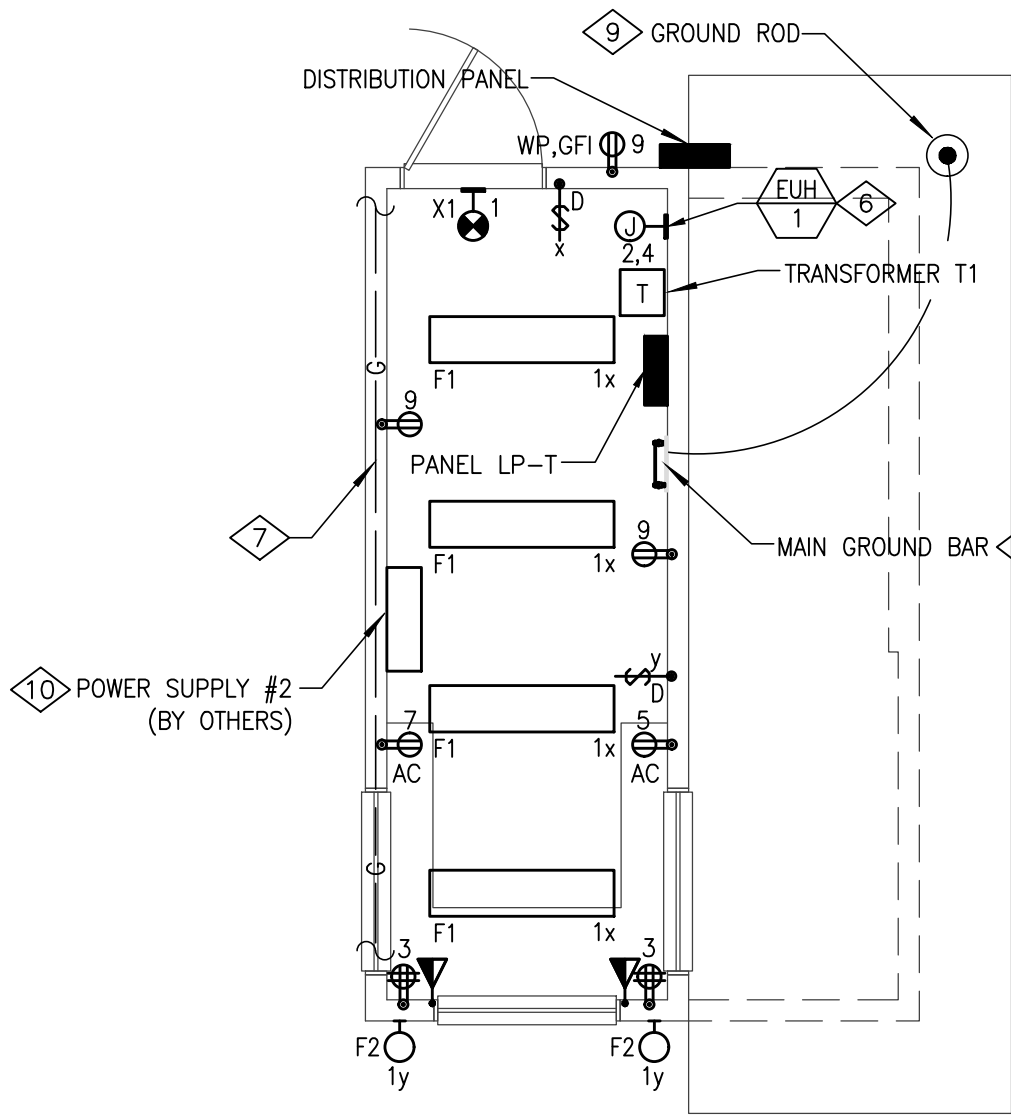
- 1 PROVIDE LABELS AT SWITCHES FOR LIGHTING AREAS CONTROLLED.
- 2 STUB OUT POWER FOR FUTURE PATHWAY LIGHTING. VERIFY AND COORDINATE WITH SSRC DURING CONSTRUCTION.
- 3 STUB OUT POWER FOR MINI-GOLF WATER PUMPS. VERIFY AND COORDINATE WITH SSRC DURING CONSTRUCTION.
- 4 PUMPS SHOWN IN THIS LOCATION FOR CIRCUITING REQUIREMENTS. SEE NOTE 5 ON FLOOR PLAN FOR LOCATION OF PUMPS.
- 5 LOCATION OF PUMPS, SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- 6 PROVIDE MECHANICAL UNIT WITH 1/2" C - 2#10 AWG & #10 GND.
- 7 PROVIDE AT LEAST 20 FEET OF BARE COPPER EMBEDDED IN CONCRETE. ELECTRODE TO BE COVERED WITH A MINIMUM OF 2" OF CONCRETE. CONNECT ONE END TO MAIN GROUND BUS BAR.
- 8 GROUND BAR, REFER TO SHEET E1.0 FOR MORE DETAIL.
- 9 PROVIDE A 3/4" DIAMETER X 10' LONG COPPER CLAD STEEL GROUND ROD.
- 10 VERIFY FINAL LOCATION OF COASTER EQUIPMENT WITH MANUFACTURER IN THE FIELD.

BUILDINGS GENERAL NOTES

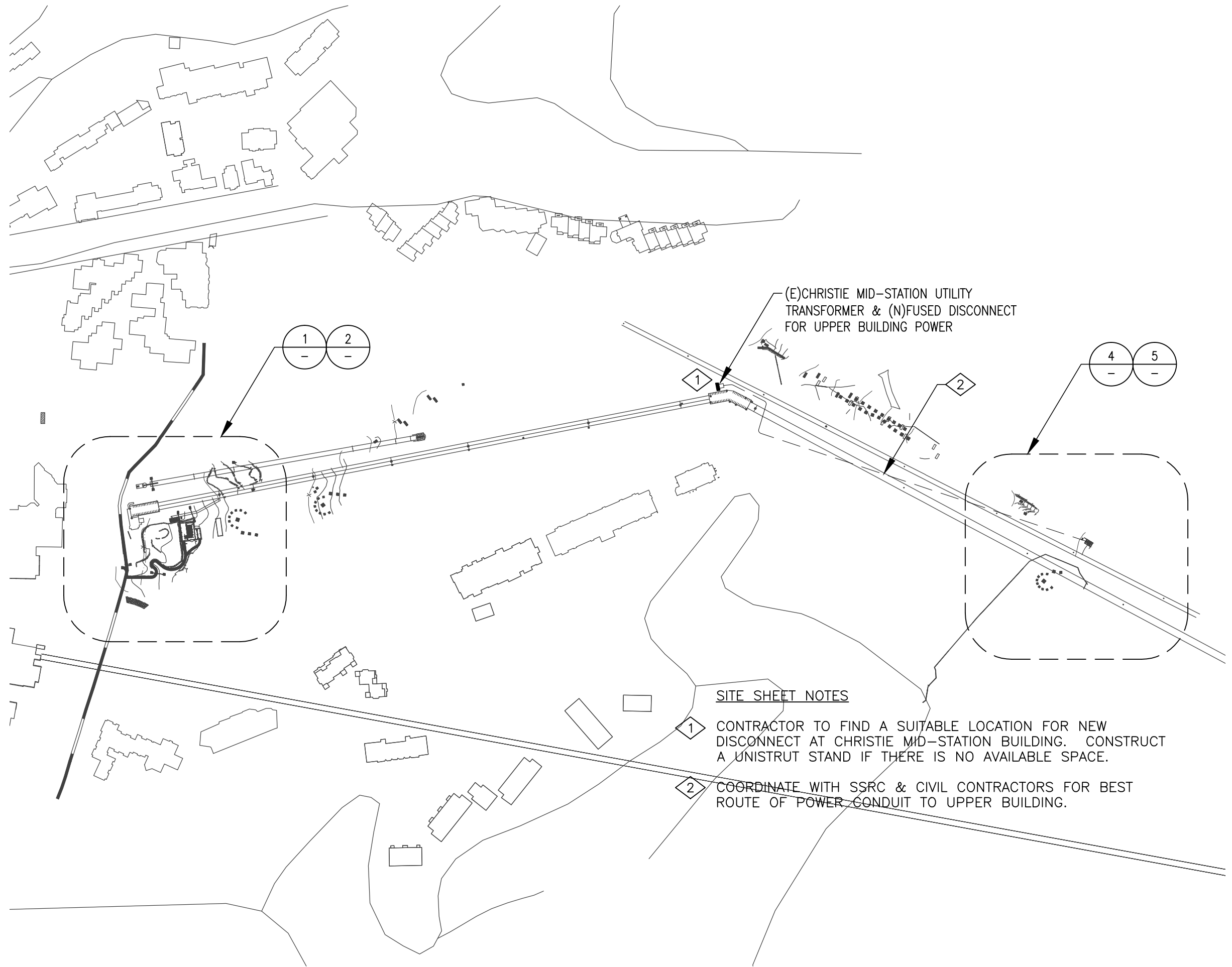
1. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED.
2. ALL EQUIPMENT SHOWN IN THE LOWER BUILDING IS CONNECTED TO PANEL 'LP-B', UON.
3. ALL EQUIPMENT SHOWN IN THE UPPER BUILDING IS CONNECTED TO PANEL 'LP-T', UON.
4. PROVIDE TYPEWRITTEN DIRECTORIES REFLECTING ALL NEW WORK PERFORMED IN THIS PROJECT.
5. ALL WIRE SHALL BE #12 AWG MIN., 90 DEG. °C IN 1/2" C - 2#12 AWG & #12 GND, UNLESS OTHERWISE NOTED.
6. VERIFY LOCATIONS OF ALL ELECTRICAL EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND EXISTING CONDITIONS IN THE FIELD.
7. BRING ANY DISCOVERED CODE VIOLATIONS TO THE OWNER'S ATTENTION.
8. CONFIRM LOCATIONS OF ALL LIGHT SWITCHES WITH THE ARCHITECT AND TENANT PRIOR TO INSTALLATION.
9. FIRE ALARM CONTRACTOR SHALL VERIFY AND COORDINATE ALL NEW EXISTING DEVICES.



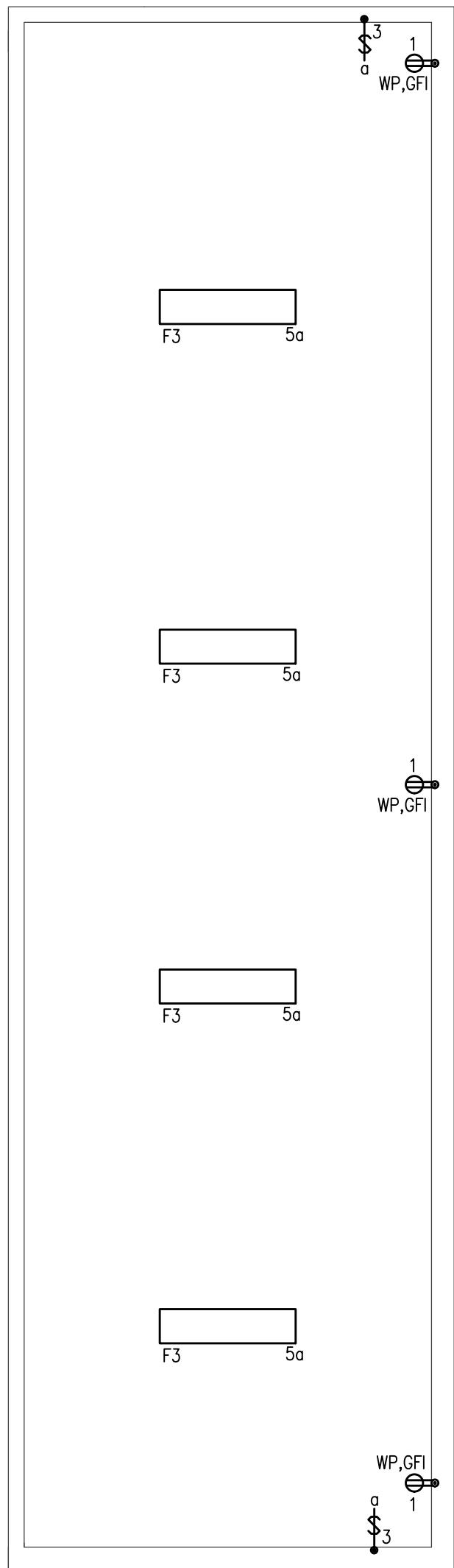
5 UPPER BUILDING MACHINE LEVEL PLAN
1/4"=1'-0"



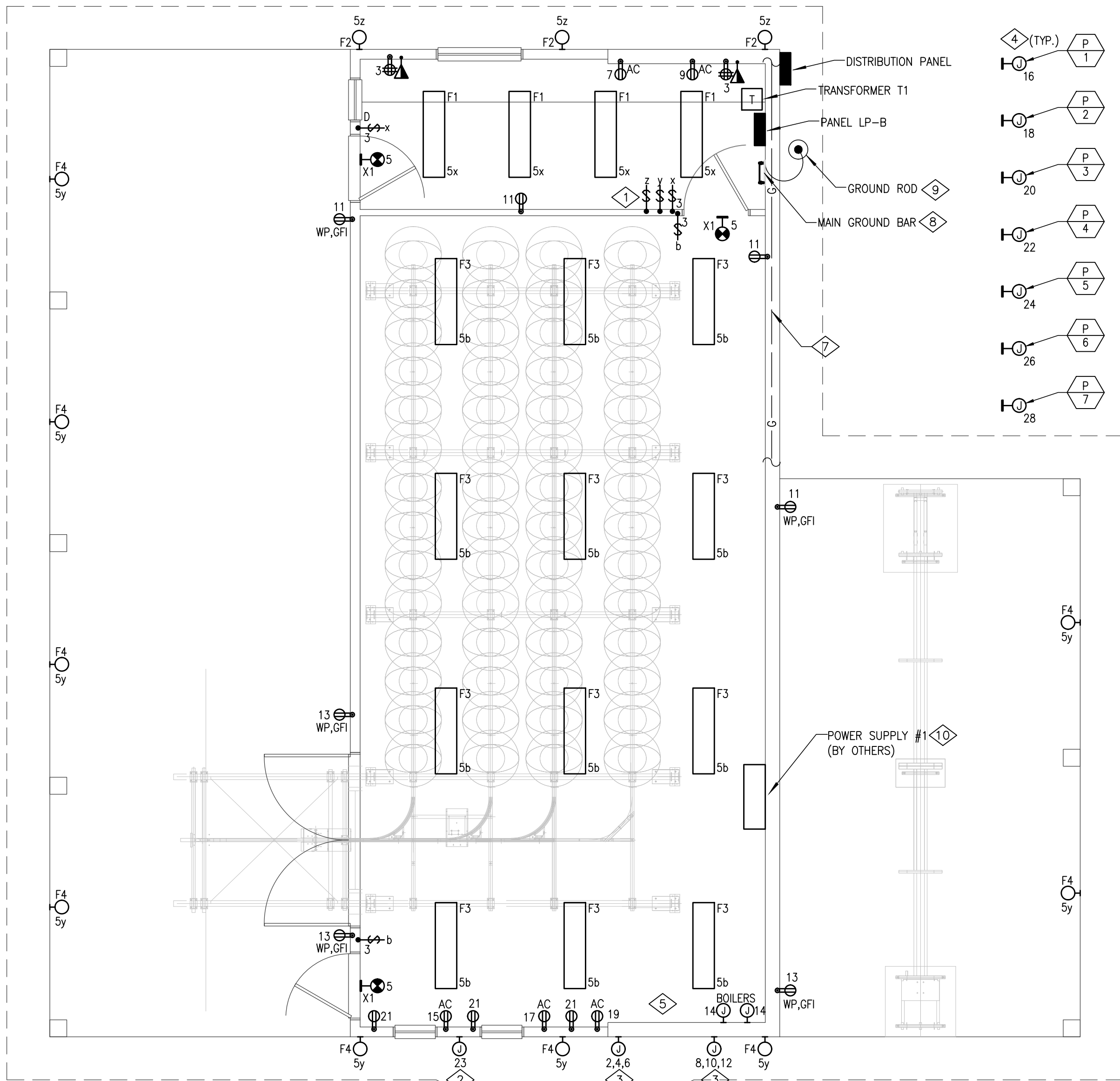
4 UPPER BUILDING MAIN LEVEL PLAN
1/4"=1'-0"



3 SITE PLAN
1"=240'-0"



2 LOWER BUILDING LOFT LEVEL PLAN
1/4"=1'-0"



1 LOWER BUILDING MAIN LEVEL PLAN
1/4"=1'-0"

SSRC ALPINE COASTER

2305 Mt. Werner Circle
Steamboat Springs, CO

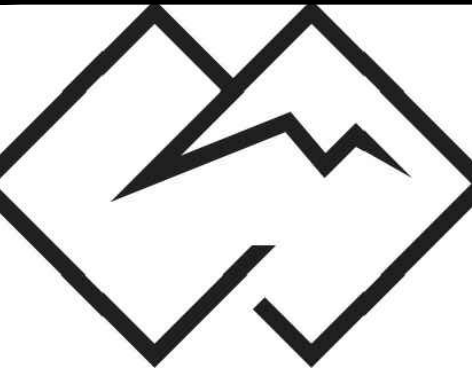
STEAMBOAT SKI & RESORT CORP

2305 Mt. Werner Circle
Steamboat Springs, CO

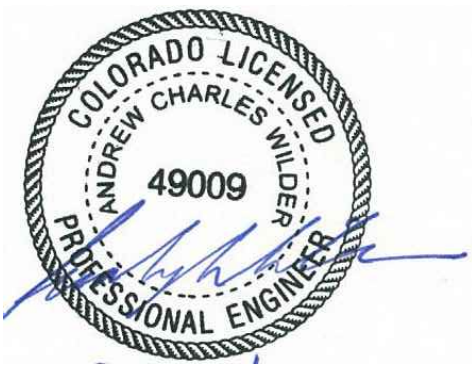
R C R B D

RECORD SET

ELECTRICAL



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Issue	By	Date & Issue Description	By
-	PERMIT SET	- 8.29.16	AW

Scale: 24x36 SEE DWG
Description: ELECTRICAL FLOOR PLANS
Project Name: ALPINE COASTER
Project Number: 201658

Sheet No.

E2.0

SECTION 16010 - BASIC ELECTRICAL REQUIREMENTS

1) PART 1 GENERAL

a) POWER AND CONTROL WIRING

- i) Provide power system conduit and wiring to mechanical equipment. Controls system conduit and wiring for mechanical systems is included under Division 15. "Power" wiring includes line voltage wiring from distribution apparatus to disconnecting means provided or installed under this section, and from such disconnecting means to motors, and to terminal boxes of 'package' equipment. "Controls" wiring includes wiring, regardless of voltage, which provides start-stop control for mechanical equipment and/or which is used to monitor functions of mechanical systems. Where line voltage wiring is extended from a local disconnecting means to relays, thermostats, by-pass timers, starter coils or the like, or from mechanical control panels or motor control centers to control devices, such extensions are considered "control" wiring.

b) MOUNTING HEIGHTS

- i) Mounting heights and locations: verify the exact location of equipment with architect prior to installation. Wall mounted devices requiring operational access shall be mounted a minimum of 15 inches above finished floor to bottom of device and a maximum of 48 inches above finished floor to top of device. Visual alarms shall be mounted not less than 80 inches to the bottom or 96 inches to the top of the device.

c) REGULATORY REQUIREMENTS

i) Conform to:

- (1) NFPA-70 - National Electric Code.

- ii) Comply with the current applicable codes, ordinances, and regulations of the authority or authorities having jurisdiction, the Owner's insurance underwriter, and applicable base building standards.

- iii) When conflict exists between two or more governing codes, comply with the stricter requirement.

- iv) Obtain permits, and request inspections from authority having jurisdiction.

d) PROJECT/SITE CONDITIONS

- i) Install Work in locations shown on Drawings, unless prevented by Project conditions. Coordinate installation of work in available space with work furnished under other Divisions.

2) PRODUCTS

- a) Where manufacturer's model or series numbers are specified or shown, these indicate generally acceptable types required. Furnish products which comply with all requirements, as specified or shown.

- b) When more than one unit of the same class of equipment is required, provide units produced by a single manufacturer.

3) TESTS

- a) Furnish test equipment, facilities, and technical personnel required to perform field tests.

- b) At completion of job, check voltage at several points of utilization on the system. Energize all loads installed.

4) CLEANING

- a) Clean all fixtures and equipment at the completion of the project. Wipe clean exposed lighting fixture reflectors and trim pieces with a non-abrasive cloth just prior to occupancy.

5) RECORD DRAWINGS

- a) Upon completion of the Work, deliver to Architect and up-to-date set of "as-built" record drawings on a reproducible medium including AutoCAD.

6) DEMOLITION

- a) Remove, relocate, and reroute existing electrical equipment to facilitate new construction or remodeling work.

- b) Examine the site to observe and note existing conditions prior to submitting a bid.

- c) Schedule demolition in advance. Schedule work to avoid disruption of normal operations.

- d) Reconnect circuits serving equipment required to remain in service to other panelboards, motor control centers, or other appropriate distribution equipment. Provide additional panelboards, motor control centers, or other appropriate distribution equipment where there is insufficient available capacity in remaining existing equipment for reconnection.

- e) Remove existing conduit and wire back to panelboard, motor control center, or other distribution source.

- f) Where a circuit is interrupted by removal of a device or fixture from that circuit, provide additional conduit and wire to restore service to the remaining devices and fixtures on that circuit.

- g) Electrical equipment to be removed that is in good working order shall be carefully removed and offered to the Owner. Items rejected by the Owner shall be removed from the project site and properly disposed of.

SECTION 16100 - BASIC MATERIALS AND METHODS

1) PART 1 GENERAL

a) REFERENCES

- i) All equipment and installations shall meet or exceed minimum requirements of ADA, ANSI, ASTM, IEEE, IES, NEC, NEMA, NETA, NFPA, OSHA, SMACNA, UL, and the State Fire Marshal. Equipment shall be certified for use in the State of the project and shall meet the State energy code. Provide products and materials that are new, clean, free of defects, and free of damage and corrosion.

b) PERFORMANCE REQUIREMENTS

- i) Provide support system for equipment and conduit, including wiring, with a minimum safety factor of 4. For empty conduits, include weight of 4 type XHHW wires of maximum permissible size.

c) QUALITY ASSURANCE

- i) All equipment and installations shall meet or exceed minimum requirements of ADA, ANSI, ASTM, IEEE, IES, NEC, NEMA, NETA, NFPA, OSHA, SMACNA, UL, and the State Fire Marshal. Equipment shall be certified for use in the State of the project and shall meet the State energy code. Provide products and materials that are new, clean, free of defects, and free of damage and corrosion.

2) PART 2 PRODUCTS

a) CONDUIT

i) General

- (1) Exposed Dry and Damp Locations:
(a) Use electrical metallic tubing.
- (2) Concealed Locations:
(a) Furred, Ceiling Spaces and Stud Walls: Use electrical metallic tubing.
(b) Connections to Lighting Fixtures in Accessible Ceilings: Use flexible conduit.
- (3) Equipment Connections:
(a) Connections to Liquid-Handling Equipment in Dry Locations: Use liquid-tight flexible conduit.
- (4) Equipment for Dry Systems in Dry Locations: Use flexible conduit.

ii) Electrical Metallic Tubing:

- (1) Continuous, seamless steel tubing, galvanized or sherardized on exterior, coated on interior with smooth hard finish of lacquer, varnish or enamel, with steel, set screw or compression type fittings. Provide concrete type fittings where required.
- (2) Use for general purpose feeders and branch circuits.

iii) Flexible Steel Conduit:

- (1) Single strip, continuous, flexible interlocked double-wrapped steel, hot dip galvanized inside and out forming smooth internal wiring channel, with steel, compression type fittings.
- (2) Use in dry locations only, connections to lighting fixtures in suspended ceilings, connections to equipment installed above suspended ceilings, transformer connections, busway plug in units, and connections to equipment where vibration isolation is required, maximum length of 6 feet.

iv) Liquid Tight Flexible Steel Conduit:

- (1) Same as flexible steel conduit except with tough, inert, watertight plastic outer jacket. Fittings shall be cast malleable iron body and gland nut, cadmium plated with one-piece brass grounding bushings threaded to interior of conduit. Spiral molded vinyl sealing ring between gland nut and bushing and nylon insulated throat.
- (2) Use same as flexible steel conduit in damp or wet locations and at motor connections.

b) BUILDING WIRE AND CABLE

- i) Provide wire with a minimum insulating rating of 600 volts, except for wire used in low voltage (below 50 volts) control or signal systems. The use of teflon (multi-conductor) for low tension systems may be permitted for fire alarm, signal and communication systems (voice and data) as approved on shop drawings by engineers and where permitted by local codes and union practice.

ii) Conductors

- (1) Electrical grade, annealed copper, and fabricated in accordance with ASTM standards. Minimum size number 12 AWG for branch circuits; number 14 AWG for control wiring.
- (2) Unless otherwise specified, all wires numbers 10 and smaller shall be solid.
- (3) All wires number 8 and larger shall be stranded in accordance with ASTM Class B stranding designations.
- (4) Control wires shall be stranded in accordance with ASTM Class B stranding designations.
- (5) Cables for low tension systems shall be multi-conductor, 16 gauge, color coded and insulated in armored cable assembly, with number of conductors as required.
- (6) All 600 volt wire and cables unless otherwise specified shall be single conductor suitable for use in wet and dry locations.

iii) Connectors

- (1) Make connections, splices, taps and joints with solderless devices, mechanically and electrically secure. Protect exposed wires and connecting devices with electrical tape or insulation to provide insulation values not less than on conductor.

iv) Cables (No. 8 and Larger):

- (1) Use set screw or compression type connectors, taps and splices specifically designed for the particular connection. Insulate splice either by taping or by use of "bakelite" covers designed to fit around splice.

v) Branch Circuit Wires (Number 10 and Smaller): Use any of the following types of terminals and connecting devices:

- (1) Hand Applied: Coiled, tapered, spring wound devices with a conducting corrosion-resistant coating over the spring steel and a plastic cover and skirt providing full insulation for splice and wired ends. Screw connector on by hand.
- (2) Tool Applied: Steel cap, with conduction and corrosion resistant metallic plating, open at both ends, fitted around the twisted ends of the wire and compressed or crimped by means of a special die designed for the purpose. Specifically fitted plastic or rubber insulating cover wrap over each connector.

c) BOXES

- i) Pressed steel, galvanized or cadmium-plated, 4 inches minimum octagonal or square with galvanized cover or extension ring as required.

- ii) Back-to-back outlets in the same wall, or "through-wall" type boxes are not permitted. Provide 12 inch minimum spacing for outlets shown on opposite sides of a common wall. Provide acoustical potting compound on all outlet boxes.

d) WIRING DEVICES

- i) Switches and Receptacles: Arrow Hart, Hubbell, Leviton, Pass & Seymour, or Slater.

- ii) Wall Dimmers: Lutron.

- iii) Occupancy Sensors: Mytech, Novitas, or Watt Stopper.

iv) Floor Boxes and Fittings:

- (1) Poke through type: Wiremold Legrand.
- (2) Recessed flush floor box type: Steel City or Wiremold Legrand.

v) Plugstrip: Wiremold.

- vi) Device and cover plate colors shall be as selected by Architect.

e) SUPPORTS

- i) Support raceways on accepted types of wall brackets, specialty steel clips, or hangers, ceiling trapeze hangers, or malleable iron straps. Plumber's perforated straps are not permitted. Acceptable manufacturers' brackets or hangers are Kindorf, Elcan, Binkley, Multi-Frame, Power-Strut, or Unistrut. Do not suspend raceways or equipment from other raceways, steam, water, or other piping or ductwork, except as otherwise permitted. Provide independent and secure support methods.

f) PANELBOARDS

- i) Acceptable Manufacturers: Cutler-Hammer/Westinghouse, General Electric, Siemens, or Square D/Groupe Schneider.

- ii) AIC Rating: Branch panelboards and overcurrent protection devices shall have a minimum short circuit rating of 10,000 RMS symmetrical amperes minimum interrupting capacity (120/208V) or 14,000 RMS symmetrical amperes minimum interrupting capacity (277/480V).

- iii) AIC Rating: Distribution panelboards and overcurrent protection devices shall have a minimum short circuit rating of 42,000 RMS symmetrical amperes minimum interrupting capacity (120/208V) or 200,000 RMS symmetrical amperes minimum interrupting capacity (277/480V).

- iv) Enclosures: Corrosion resistant galvanized (zinc finished) sheet steel. Fronts shall be cold rolled steel, finish coated with ANSI 61 grey enamel over a rust inhibitor. Panel locks shall be keyed alike.

- v) Doors: One piece bolt on front with a lockable hinged door over the overcurrent protection devices.

- vi) Bus Bars: Silver plated aluminum or copper. Neutral bus shall be full size. Neutral bus shall be 200% rated when supplied from a double neutral feeder. Provide an equipment ground bus in each panelboard. In addition to the equipment ground bus, provide an isolated ground bus when supplied from a feeder which includes an isolated grounding conductor.

- vii) Overcurrent Protection Devices: Molded case circuit breakers for branch panelboards and 120/208V rated distribution panels, and fusible switch units for 277/480V rated distribution panels.

g) MOTOR STARTERS

- i) Acceptable Manufacturers: Eaton/Cutler-Hammer, General Electric, Siemens, or Square D/Groupe Schneider.

ii) Manual Motor Starters

- iii) Fractional Horsepower Manual Starter: General-purpose, Class A, manually operated, full-voltage controller for fractional horsepower induction motors, with thermal overload unit, and toggle operator.

- iv) Voltage, Rating and Thermal Element: As required by motor controller.

- v) Enclosure: NEMA ICS 6; Type 1.

h) PULL LINE

- i) 1/8 inch diameter braided yellow polypropylene.

3) PART 3 EXECUTION

a) INSTALLATION

i) Conduit

- (1) Install conduit in accordance with NECA "Standard of Installation".
- (2) Do not combine individual homeruns into common conduit.
- (3) Do not support conduit with wire or perforated pipe straps. Remove wire used for temporary supports.
- (4) Arrange conduit to maintain headroom and present neat appearance.
- (5) Use conduit hubs to fasten conduit to cast boxes.
- (6) Provide insulated equipment ground conductor in flexible conduit.
- (7) Install conduit to preserve fire resistance rating of partitions and other elements.
- (8) Do not attach conduit to ceiling support wires.

ii) Building Wire and Cable

- (1) Use conductor not smaller than 12 AWG for power and lighting circuits.
- (2) Neatly train and lace wiring inside boxes, equipment, and panelboards.
- (3) Make splices, taps, and terminations to carry full ampacity of conductors with no perceptible temperature rise.
- (4) Use hardened and tempered steel, tin-plated or stainless steel Belleville washer with slightly larger tin-plated mild steel flat washer for aluminum lugs.
- (5) Use insulated spring wire connectors with plastic caps for copper conductor splices and taps, 8 AWG and smaller.

iii) Boxes

- (1) Install electrical boxes as shown on Drawings, and as required for splices, taps, wire pulling, equipment connections and compliance with regulatory requirements.
- (2) Install electrical boxes to maintain headroom and to present neat mechanical appearance.
- (3) Install boxes to preserve fire resistance rating of partitions and other elements; arrange boxes to meet regulatory requirements.
- (4) Align adjacent wall-mounted outlet boxes for switches, thermostats, and similar devices to each other.
- (5) Do not use through-walls boxes or install flush mounting boxes back-to-back in walls; provide minimum 6 inch separation. Provide minimum 24 inches separation in acoustic rated walls.
- (6) Use stamped steel bridges in bar hanger assemblies to fasten flush mounting outlet box between studs.
- (7) Use adjustable steel channel fasteners for hung ceiling outlet box.
- (8) Do not fasten boxes to ceiling support wires.
- (9) Support steel metal boxes independently of conduit.
- (10) Use gang box where more than one device is mounted together, including floor boxes. Do not use sectional box.
- (11) Plaster Rings: Use for all concealed work; depth of rings as required to reach finished surfaces.
- (12) Coordinate trimming of openings for outlet boxes in partitions to achieve neat, closely-fitting openings.
- (13) Install knockout closure in unused box opening.

iv) Wiring Devices

- (1) Install devices plumb, level, and rigidly in place.
- (2) Install switches 2 inches to 8 inches from trim on the strike side.
- (3) Install decorative plates on switch, receptacle, and blank outlets in finished areas. Use multi-gang plates for multiple devices.
- (4) Connect wiring devices by wrapping conductor around screw terminal.

v) Supporting Devices

- (1) Fasten hanger rods, conduit clamps, and outlet and junction boxes to building structure using expansion anchors, beam clamps, steel ramset fasteners.
- (2) Use toggle bolts or hollow wall fasteners in plaster or gypsum board partitions and walls; sheet metal screws or spring steel bar retainer clips in sheet metal studs.
- (3) Do not fasten supports to piping, ductwork, mechanical equipment, or conduit.
- (4) Do not use powder-actuated anchors without specific permission.
- (5) Do not drill structural steel members without specific permission.
- (6) Fabricate supports from structural steel or steel channel, rigidly welded or bolted to present a neat appearance. Use hexagon head bolts with spring lock washers under nuts.

vi) Electrical Identification

- (1) Provide wire markers on each conductor in panelboard gutters, pull boxes, and at load connection. Identify with branch circuit for power and lighting circuits, and with control wire number as indicated on equipment manufacturer's shop drawings for control wiring. If more than one neutral conductor is present, mark each with related circuit numbers.
- (2) Color code all secondary branch circuit and feeder conductors as follows:
(a) Four Wire, Three Phase, Grounded Wye System: For 120/208 volt systems, use one black, one red, one blue, one white (neutral). For 277/480 volt systems, use one brown, one orange, one yellow and one gray (neutral).
- (3) Use wire with insulation of required color. For sizes of wire, which may not be available in specified colors use self-adhesive wrap around, markers of solid colors to color code conductors.
- (4) Color code conductors at accessible locations.
- (5) Pull Rope Marking: Affix label identifying termination point at each end of pull rope.

vii) Disconnect Switches

- (1) Install disconnect switches shown mounted on walls at 4'-6" to centerline of switch.
- (2) Install disconnect switches shown on or adjacent to equipment on field fabricated galvanized steel frames.

viii) Panelboards

- (1) Provide filler plates for unused spaces in panelboards.
- (2) Provide typed circuit directory in plastic holder for each branch circuit panelboard.

ix) Motor Starters

- (1) Install motor control equipment in accordance with manufacturer's instructions.
- (2) Select and install heater elements in motor starters to match installed motor characteristics.

- x) Pull Line: Provide in each empty conduit except sleeves and nipples; leave 8 inches of slack at each outlet.

- xi) Firestopping: Provide firestopping around all pipes, conduits, sleeves, etc., which pass through rated walls, partitions and floors.

END OF SECTION

SSRC ALPINE COASTER

2305 Mt. Werner Circle
Steamboat Springs, CO

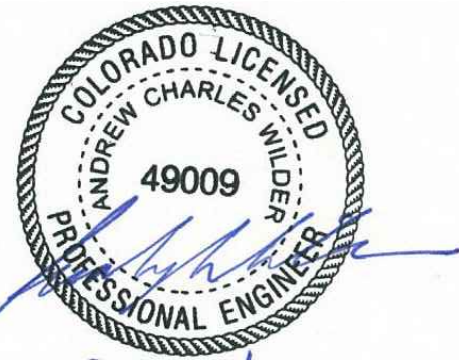
STEAMBOAT SKI & RESORT CORP

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R C R B D
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Issue	By	Date	Issue Description	By
—	PERMIT	SET	— 8.29.16	AW

Scale:

24x36 NTS

Description: SPECIFICATIONS

Project Name: ALPINE COASTER

Project Number: 201658

Sheet No.

E3.0