

DRAWING INDEX



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T 602 251 3800

sma project name POWDERCAT

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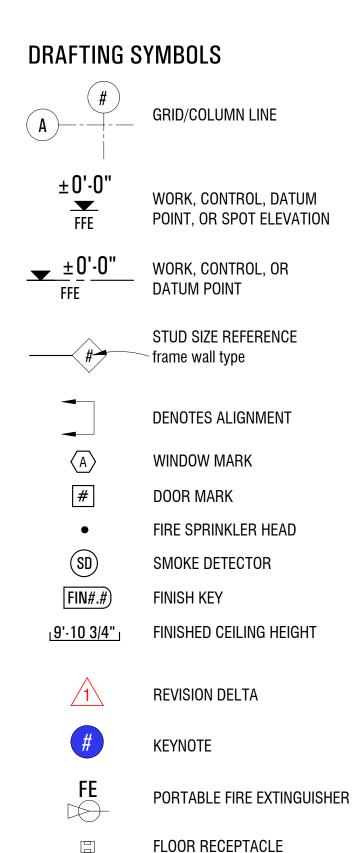
MECH/PLBG/ELEC peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020 t (602) 388-1732

LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295

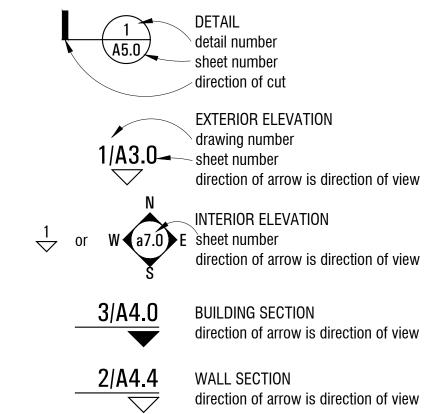
> No. 7829867-0301 🧘 June 30, 2017 🖔

PLAN REVIEW ACCEPTANC ELECTRICAL WEST COAST CODE CONSULTANTS, IN

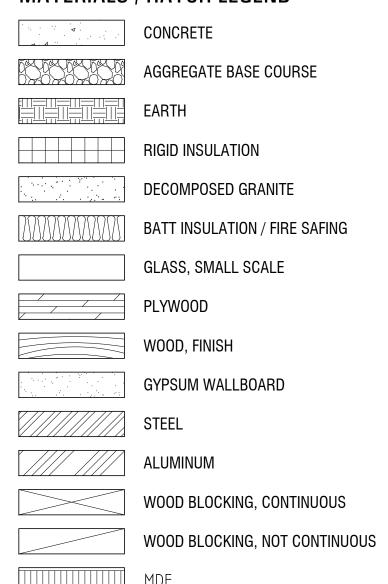
PERMIT SET phase / rev



DETAIL/SECTION MARKS



MATERIALS / HATCH LEGEND



TO BE DEMOLISHED

GENERAL NOTES

riser

return air

revision

reference.

refer to

south

shelving

similar

steel

top of

typical

rough open'g

slab on grade

specifications

stainless steel

thick, -ness

top of wall

unless noted

underground

vertical grain

verify in field

wide, width,

water heater

where occurs

otherwise

underside

vertical

west

with

window

without

RA, R/A

REV

REF

SH

SIM

SOG

SPEC

SSTL

STL

THK

T.0.

T.O.W.

TYP

UNO

U/G

U/S

VG

VIF

WH

W/0

W.O.

WIN. WDW

VERT

ABBREVIATIONS

ADJ

B.0.

CLG

CLR

CMU

COL

CONC

CONT

DIA

EXG

F.O.

GALV

GLB

anchor bolt

above

floor

ALU, ALUM aluminum

adjacent

bottom of

cast in place

centerline

ceiling

clear

concrete

column

concrete

diameter

door

detail

ioint

board

existina

elevation

face of

footing

gauge

glass

glue ·

beam

general

structural

DEFERRED SUBMITTALS

been approved by the building official.

2. pre-fabricated wood i-joists (by Others)

3. pre-fabricated wood trusses (by Others)

Refer to the drawings for additional information.

1. fire sprinkler (by Others)

GENERAL NOTES:

regarding this).

GENERAL NOTES:

"non-reflective metal".

APPROVED DOCUMENTS AND PERMIT SET:

alarm systems, and any other work requiring a permit.

galvanized

laminated

existing

expansion

electrical panel

finished floor

continuous

control joint

masonry unit

bottom

beam

above finished

GWB, GYP

HDG

HDWD

HDR

HORZ

HWH

LAV

MAS

MAX

MECH

MWK

N/A

NTS

OS, 0/S

OD

0H

PNT

PSF

PTD

gypsum

hot dip

wallboard

galvanized

hardwood

hollow core

hose bibb

horizontal

hot water

heater

inside

ioint

lavatory

masonry

maximum

metal

manufacturer

mechanical

millwork

minimum

not applicable

not in contract

not to scale

on center

outside

outside

diameter

overhead

opposite

paint, -ed

pounds per sq.

pounds per sq.

property line

pressure

treated

painted

GENERAL NOTE: Documents for deferred submittal items shall be submitted to the registered

design professional in responsible charge who shall review them and forward them to the

building official with a notation indicating that the deferred submittal documents have been

deferred submittal items shall not be installed until the design and submittal documents have

reviewed and been found to be in general conformance to the design of the building. The

4. window system wind-loading steel reinforcement, and calculations (by Others)

BUILDING INSPECTION AND FIRE DISTRICT REQUIREMENTS

combustible construction. Temporary roads shall meet the same requirements for

1. Fire access roads for this project shall be completed and approved prior to any

2. All required fire hydrants and water systems shall be installed, approved and fully

4. If the building is equipped with a fire department connection (FDC) there shall be a

Contractor shall maintain all permits, and no less than one (1) approved/stamped set of

construction documents on site and available for inspector review, including plan sets for

building construction and deferred submittal scope, including fire suppression systems, fire

PLANNING DEPARTMENT AND DEVELOPMENT REQUIREMENTS

1. As per Weber County LUC §108-2-4, All glass and windows shall be "non-reflective"

As per Weber County LUC §108-2-4, All metal siding and metal roofing shall be

cement pad measuring 3 ft x 3 ft under the FDC (coordinate with fire inspector

height, width and imposed loads as permanent roads.

Fire department apparatus access is required for each lot.

functional prior to any combustible construction.

north

over

hollow metal

header

1. Contractor to obtain all permit(s) required for work and include all costs within the bid.

- Unless noted otherwise, Contractor to provide a completed AIA Form A305-1986, Contractor's Qualification Satement with bid submittal. Agreement between Owner and Contractor shall be Owner's form of construction agreement to be included in bidder instructions. The General Conditions of the Contract for Construction shall be AIA form A201-2007.
- 3. Contractor to provide a Critical Path Method (CPM) schedule with bid. Contractor to provide a parallel schedule indicating corresponding approval dates for parcel Owner sign-off for which an Owner upgrade or alternate is available beyond this approval date, pending any approved schedule revisions, the base-bid condition will prevail. Owner and Contractor to establish a schedule and agreed-upon liquidated damages if work is not substantially complete by Contractor's proposed schedule.
- 4. Provide dumpster. No trash allowed to be seen above top of dumpster. Contractor to leave the site in a neat and orderly manner, free of trash and debris, daily. Dispose of all trash, debris, and construction waste in a proper, legal manner.
- 5. Provide a temporary toilet and clean on not less than a weekly basis.
- 6. Job should be staffed properly for the stage of construction a superintendent to be present at all times during construction.
- The first pay application may be submitted at the end of the first month of work. Pay application to be standard AIA forms G702 and G703, and to include only materials installed on the job, a full breakdown of the work, and all lien releases, conditional and unconditional.
- 8. All changes will be done by fully executed Change Orders, signed by Owner, Contractor, and Architect, before the work is initiated. Change Orders shall include, at a minimum, any and all changes to the contract sum and contract time. Contractor is not authorized to make changes without a fully executed Change Order. Work performed not in accordance with the contract documents and without a fully executed Change Order shall be at the Contractor's sole risk.
- 9. Minimum standards of workmanship from the Utah Division for Occupational and Professional Licensing, National Association of State Contractor Licensing Agencies Residential Construction Standards, or respective trade organization shall not be used in determining the acceptability of work unless no other level of quality is specified.
- 10. All disputes shall be settled by mediation and then litigation, unless otherwise stipulated in the Owner Contractor Agreement.
- 11. Where the notes, drawings, or specifications disagree (whether within a discipline of work, or between disciplines), Contractor may request a clarification during the bidding period, otherwise the more stringent, or costly, requirement(s) shall govern.
- 12. Establish and verify all openings and inserts for mechanical, electrical and plumbing w/ the appropriate trades, drawings and subcontractors prior to construction. Contractor to obtain approval from Owner indicating sign-off on all fixture, equipment, and other upgrades or alternates that may affect rough-in locations, or other trades, prior to commencing work.
- 13. Verify and coordinate all dimensions and conditions prior to starting work. Notify Architect of any discrepancies, inconsistencies, or conditions not covered in the documents in sufficient time so as to not cause delay. Contractor to hold preconstruction/preinstallation meetings prior to the start of any subcontractor's work.
- 14. Details are applicable where indicated by section cut, by note or by detail title. Provide similar details at similar conditions unless noted otherwise. Contractor may request a clarification during the bidding period otherwise the more stringent, or costly, requirement(s) shall govern.
- 15. The drawings show the completed Project, they do not include components that may be necessary for construction safety. Contractor is responsible for safety on and around the jobsite during construction and for repairing any damage caused by Contractor (including damage to adjacent or public properties) at no additional cost to Owner.

16. Dimensions:

- Do not scale drawings use dimensions only. Dimensions shall take precedence over scale on Construction Documents.
- Contractor shall verify all dimensions and conditions in field. If a dimensional error occurs or a condition not covered in the drawings is encountered, Contractor shall notify Architect, in writing, before commencing that portion of the work.
- Dimensions, where shown, are normally given:
 - 1. to face of sheathing, concrete, or masonry (exterior)2. to face of finish, or finished face of cabinetry or fixture (interior)
 - 3. to center lines
- 17. The starting of work by any Contractor shall be considered *prima facie* evidence that he has inspected the Documents and examined the conditions under which materials will be installed and finds them satisfactory.
- 18. The contractor shall supervise and direct the work using best skill and attention. He shall be solely responsible for all methods, techniques, sequences, and procedures, and for coordination of all portions of the work under contract. Contractor shall be solely responsible for coordinating the sequence of work to avoid conflicts with equipment or fixture installation, or other conditions that may potentially be in conflict with previously installed work.
- 19. Apply, install, connect, erect, use, clean, and condition all manufactured articles, materials, and equipment in accordance w/ the manufacturer's written specifications, instructions and recommendations unless specified to the contrary herein. All materials for use shall be new unless otherwise noted. No asbestos or materials w/ pcb's shall be used on this Project.
- 20. Caulk, seal, and/or weatherproof penetrations in walls, ceilings, and floors for plumbing, electrical, and other openings in the building envelope. Provide appropriate 'Quickflash' small-penetration flashing (http://www.quickflashproducts.com/), or equivalent, at all penetrations through the exterior envelope. Review all visible penetrations with Architect prior to installation; special care shall be taken with such penetrations; i.e. decorative sleeves shall be provided and/or a change to the material of the penetrating item shall be made at the Architect's sole discretion and at no additional cost to the Owner.
- 21. The sealing methods between dissimilar materials shall allow for differential expansion and contraction. The following shall be caulked, gasketed, weatherstripped or otherwise sealed with an air barrier material, suitable film or solid material:
 all joints, seams and penetrations.
- site-built windows, doors and skylights.

concealed by built-ins, cabinets, etc.

- openings between window and door assemblies and their respective jambs and framing.
 utility penetrations.
- dropped ceilings, knee walls, or chases adjacent to the thermal envelope.
 walls and ceilings separating a garage, crawl space, or unconditioned basement, from conditioned spaces.
- behind tubs and showers on exterior walls.
 all penetrations and access openings through the subfloor or roof/attic framing
 rim joist junction.
- other sources of infiltration.22. Prime coat all surfaces (unless other finish is specified) at such areas which will be
- 23. All glazing, including vertical windows and skylights, to meet Building Code requirements refer to window schedule for additional information.

PROJECT INFORMATION

PROJECT DESCRIPTION:

New single-family townhouses located in the Summit | Powder Mountain development located at the top of Powder Mountain in Eden, Utah. The site is adjacent to the future area of the development known as "the village". The dwellings have an individual expression, but are collected under one undulating roof. This shared structure provides a reduced design and construction cost, while increasing available space, with higher energy efficiency. The dwellings vary in orientation, which provides a nice rhythm to the structure.

The low profile of the structure is "neighbor friendly" in that it minimizes obstructions to views from uphill sites. The slope of the site allows for a multi-level solution with the upper floor under the undulating roof as a large, inviting and generous room, organized on two levels. Views of the valley are to the south through the living room window wall and bedroom windows on the lower two levels; views to the mountaintop are to the north through the kitchen windows.

The building shell consists of wood framing members, and is highly insulated both in the stud cavities as well as with continuous insulation at the exterior.

The primary exterior materials are wood siding and weathered 'Corten' steel, with a metal roof. Interior materials consist of tile and wood flooring, wood paneling, gypsum drywall, and glass/frosted glass

MARKET VALUE: tbd / by owner

PROJECT ADDRESS: Summit | Powder Mountain development located in Eden, UT, in the Phase 1c, lots: 124 through 133

ZONING: Town house district, e-1.3.1

DISTRICT • minimum lot dimensions / n/a
REGULATIONS: • on site water and sewer

- building setbacks / 0' front, 0' side, 5' rear
 maximum height / 2 stories and 35'
- lot coverage / 20% landscape requirement
 allowed uses / single-family dwellings
 parking / 1 space

LEGAL DESCRIPTION: refer to civil

LOT AREA: refer to civil for lot areas; refer to recorded plat for addressing

BUILDING AREA: refer to floor plans

UTILITIES: gas: questar gas 801.324.3539

electric: rocky mountain power

801.629.4310
water: powder mountain water & sewer improvement district 801.983.2727

comm: (private)

OCCUPANCY: R-3

CONSTRUCTION: TYPE V-B

BUILDING CODES: refer to building code analysis

PROJECT TEAM: / master developer

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director of design sam arthur 949.370.2558 sam@summit.co

/ project developer

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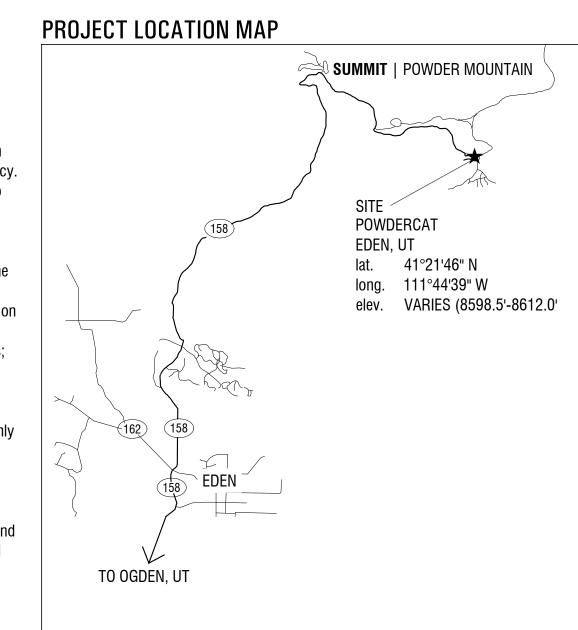
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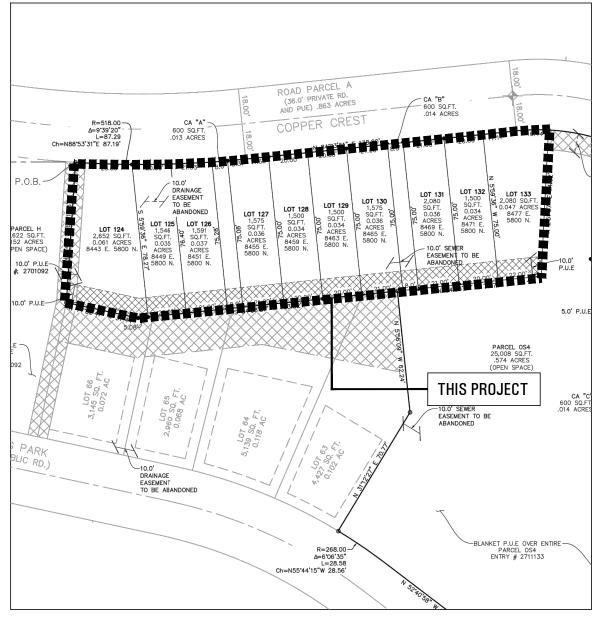
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/ contractor
general contractor TB

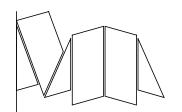


PARTIAL PLAT (ref. civil)



SITE AERIAL / OVERLAY





architect
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sma project no. 16-101

sma project name
POWDERCAT

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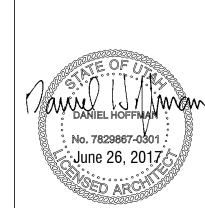
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LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295



NTS







PERMIT SET phase / rev
2017.06.01

Project Location Summit | Powder Mountain development located in Eden, UT, in the Phase IC, Town House District, E-1.3.1. Lots: 124,125,126,127,128,129,130,131,132 and 133

Lat: 41°21'46" N Long: 111°44'39" W Elev: varies (8598.5'-8612.0') Site Area (sq. ft.): Refer to plat Legal Description: Refer to civil plans

Zoning: Town House District, E-1.3.1 Seismic Data: Refer to general structural notes

Lot: Address:

8443 E Copper Crest Road 124 125 8449 E Copper Crest Road

126 8451 E Copper Crest Road 127 8455 E Copper Crest Road

8459 E Copper Crest Road

129 8463 E Copper Crest Road

130 8465 E Copper Crest Road

131 8469 E Copper Crest Road

132 8471 E Copper Crest Road

133 8477 E Copper Crest Road

WEBER COUNTY BUILDING CODE DATA Governing Building Codes:

2015 i-Codes

2009 ANSI A117.1

• 2014 NEC 2006 Wildland-Urban Interface Code

 Any amendments to the above mentioned codes as required by the Utah Code and the Utah Administrative Code.

Products:

All products listed by ICBO numbers, NER numbers, ICC-ES reports shall be installed per the report and manufacturer's written instructions and recommendations. Product substitutions for products listed shall also have ICBO approved evaluation reports or ICC-ES reports or be approved and listed by other nationally recognized testing agencies and acceptable to the authority having jurisdiction.

PROJECT DESCRIPTION

Occupancy:

Multiple single-family dwellings (townhouses) not more than three stories in height with separate means of egress. All dwellings are sprinklered and separated by common fire-resistance-rated party walls.

CH. 3 / BUILDING PLANNING

DESIGN CRITERIA Construction Type: Type V-B Evaluation Code: 2015 IRC with Utah amendments

Climate Zone: 5b [TABLE N1101.10 (TABLE R301.1)]

1. "B" designation indicates that location is considered "dry" as per Figure N1101.10

2. Weber County Weather Data:

Heating Cost Index: 285.00 (usa.com) Cooling Cost Index: 145.67 (usa.com Average Temperature: 50.3° (usa.com) Avg. July High Temp.: 90.9° (weber cty) Avg. Jan. Low Temp.: 16.5° (weber cty)

Precipitation: 17.2" (weber cty) Snow: 53.3" (weber cty) Wind Speed: 17.42 mph

Air Freezing Index: 2000 [FIGURE/TABLE R403.3(2)] Weathering Probability for Concrete: Severe [FIGURE R301.2(3)] Termite Infestation Probability: Moderate to Heavy [FIGURE R301.2(6)]

FIRE RESISTANT CONSTRUCTION Exterior Walls: SEE TABLE

Common Party (demising) Walls: each townhouse is considered a separate building and is separated by a common minimum 1-hour-fire-resistance-rated wall in accordance with R302.2, exc. 2, provided such walls do not contain plumbing or mechanical equipment, ducts or vents in the cavity of the common wall. Electrical installation shall be installed in accordance with Chapters 34 through 43. Penetrations shall be in accordance with Section R302.4 [R302.2]. Wall shall be continuous from footing to underside of roof sheathing [R302.2.1]. Parapets not required if the roof is Class C (min.) and roof sheathing is either noncombustible or fire-retardant-treated wood for a distance of 4' on each side of the wall [R302.2.2]. Structural independence of each townhome is not required [R302.2.4, exc. 5]

Note: the current drawings depict the party wall as an area separation wall as per UL design U 336, providing up to a 2 hour separation. Either a layer of noncombustible cementitious sheathing must be provided on top of the roof structure, or the roof sheathing must be fire-retardant-treated wood for a distance of 4' on either side of the wall, and a minimum Class C roof must be provided. Penetrations to be protected in accordance with R302.4, and per UL System No. W-L-7188.

Dwelling/Garage Fire Separation [TABLE R302.6]

Walls: 1/2" thk. gwb applied to the garage side. Ceiling: 5/8" thk. Type X gypsum board.

Penetrations & Openings in Garage Walls: 1-3/8" min. thickness solid wood doors, solid or honeycomb-core steel doors, or 20-minute fire-rated doors, equipped with self-closing device [R302.5.1]. Ducts to be min. 26ga; no openings into garage [R302.5.2]. Other penetrations to be protected with approved materials but are not required to meet ASTM E 136 [R302.5.3; ref. R302.11.4].

Under Stair Protection: enclosed accessible space to be protected with min. ½" gwb [R302.7]. Foam Plastics: as per R316.

Flame Spread Index and Smoke Developed Index (per ASTM E84 or UL 273): For Wall and Ceiling Finishes: flame spread 200 max [R302.9.1]; smoke developed index

450 max [R302.9.2]. For Insulation: flame spread 25 max & smoke developed 450 max [R302.10.1]. Refer to R316 for foam plastics: flame spread 75 max [R316.3]; foam plastic in roofing applications does not have to be separated by a thermal barrier, nor does it have a limitation on smoke developed index [R316.5.2], except where limited by other applicable

Note: rigid foam insulation above structural roof deck to be XPS insulation.

Fireblocking: provide if wood frame, or combustible, construction in concealed floor and stair spaces, openings, chimneys and fireplaces [R302.11]. Materials to be as per R302.11.1. Draftstopping: n/a

LIGHT. VENTILATION AND HEATING

Habitable Rooms (living, sleeping, eating, cooking): 8% min. glazing area; ventilation (operable windows, doors, etc.) 4% min. [R303.1] Bathrooms: glazing 3 sq. ft. min.; ventilation 1.5 sq. ft. min., unless electric lighting and

mechanical exhaust is provided [R303.3] Mechanical Ventilation: required if air changes are less than 5 per hour [R303.4].

Stairway Illumination: 1 fc on treads and landings with switches top & bottom [R303.7]. Required Heating: heating facilities capable of min. room temp. of 68-degrees [R303.9].

MINIMUM ROOM AREAS

Rooms area: all habitable rooms not less than 70 sq. ft., except kitchens [R304.1]. Dimensions: habitable rooms not less than 7 ft in any dimension, except kitchens [R304.2]

CEILING HEIGHT

Minimum Height: not less than 7 ft, unless a closet or not occupiable [R305.1]. In rooms with sloped ceilings at least 50% of required floor area to be 7 ft min., and never less than 5 ft. Bathrooms may be 6'-8" min. [R305.1 exc. 1]

Note: current design provide a minimum ceiling height in the kitchen, above the back of the counter, of 7 ft. This height can be reduced if desired to a minimum of 5 ft as noted.

SANITATION

Toilet Facilities: min. (1) water closet, lay, and bathrub or shower [R306.1]. Kitchen: kitchen area with sink [R306.2]

Sewage Disposal: sanitary sewer or approved private sewage disposal [R306.3]. Water Supply: fixtures connected to approved water supply; hot and cold water to kitchen sinks, lavs, tubs, showers, bidets, laundry tubs, washing machine outlets [R306.4].

TOILET, BATH AND SHOWER SPACES

Space Required: as per R307.1 and P2705.1 Bathtub and Shower Spaces: floors, walls, and walls above tubs with shower heads to be nonabsorbent to 6 ft min. [R307.2].

GLAZING

Identification: safety and multi-pane glazing to be designated [R308] and tested as per CPSC 16 CFR 1201, Category II [R308.1.1].

Safety Glazing: at all hazardous locations including glazing in doors, adjacent to doors, in windows with lites > 9 sq. ft., bottom edge less than 18 inches above the floor, top edge more than 36" above floor, walking surfaces within 36 inches; exceptions for rails. [R308.4.3]. Guards/rails [R308.4.4]; wet surfaces including enclosures for bathtubs, showers, steam rooms, as fences/gates around hot tubs or pools [R308.4.5]; adjacent to stairs/ramps [R308.4.6].

Site Built Windows: ref. IBC Section 2404 [R308.5].

GARAGES AND CARPORTS

Floor Surface: noncombustible, sloped where for parking of automobiles, to drain or to main vehicle entry doorway [R309.1]. Carports: n/a

Automatic Garage Door Openers: listed and labeled per UL 325 [R309.4]. Fire Sprinklers: not required [R309.5].

EMERGENCY ESCAPE AND RESCUE OPENINGS

Emergency Escape and Rescue Required: basements, habitable attics, sleeping rooms [R310.1]. Minimum size 5.7 sq. ft. min. net clear [R310.2.1], 24" min. height [R310.2.1], 20" min. width [R310.2.1]. Maximum sill height 44" [R310.2.2]. Operational from inside without keys, tools [R310.1.1].

MEANS OF EGRESS

Means of Egress: continuous, unobstructed, not through a garage [R311.1].

Egress Door; min. (1) side-hinged 32" min. clear width, 78" min. clear height [R311.2]. Floors and Landings at Exterior Doors: landing or floor on each side of each exterior door, not less than the width of the door served, 36" in the direction of travel; 1/4" / ft. max. slope [R311.3]. 1.5" max. threshold height; exterior landing 7-3/4" max. below top of threshold if door swings in (screen doors are ok) [R311.3.1]. Vertical Egress: stairs as per R311.7.

Hallways: min. 3 ft. [R311.6].

Stairs: 36" clear width (handrails may project into); min. 6'-8" headroom; 12 ft max. vert. rise; 8" max. riser height & 9" min. tread depth (ref. amendment 15A-3-202.15). Nosings 3/4" min. on treads less than 11" depth; landings 36" min.; handrail on min. 1 side, continuous, return to wall or terminate in post or terminal [R311.7].

GUARDS AND WINDOW FALL PROTECTION

Guards: required where > 30" vertical. 36" min. guard height, 4" max. openings [R312.1] Window Fall Protection: not required for windows > 24" A.F.F. [R312.2].

AUTOMATIC FIRE SPRINKLER SYSTEMS

Townhouses: required residential fire sprinkler system as per P2904. All areas of the dwelling unit except as follows: attics & unoccupied concealed spaces, clothes closets, bathrooms less than 55 sq. ft., garages, exterior porches, unheated entry areas (i.e. - mud rooms) [P2904.1.1].

Per Utah State Fire Code Act, provide weather-proof horn/strobe device located on the street side of the building as approved by the Fire Prevention Division; location to be coordinated with

Provide interior horn/strobe device on each level of each unit which will activate upon fire suppression system activation.

Fire suppression and fire alarm systems are deferred submittals - Contractor shall prepare documents for, and apply for, permits for said work and will maintain permits on site for review by any inspector.

SMOKE ALARMS

Smoke Detection and Notification: listed and labeled per UL 217, installed as per IRC and NFPA 72 [R314.1]. Locations required: sleeping rooms, outside sleeping rooms, on each additional level (only upper level of split level dwellings required); (1) per 500 sq. ft. floor area on levels with more than 1,000 sq. ft. [NFPA 72, 29.5.1.3]. Smoke alarms to be interconnected or wireless communicating [R314.4].

CARBON MONOXIDE ALARMS

Carbon Monoxide Alarms: required outside each sleeping area [R315.3]; devices listed per UL 2075; per the IRC and NFPA 720 [R315]. Single-station alarms listed per UL 2034.

FOAM PLASTIC (refer to dwelling/garage separation, above) Labeled per R316.2, flame spread 75 max., smoke-developed index 450 max., per ASTM E 84 or UL 723. Separate from interior by 1/2" gwb (not req'd where separated by min. 1" concrete). Roofing applications do not require thermal barrier [R316]. Doors, incl. garage doors, exempt.

PROTECTION OF WOOD AND WOOD BASED PRODUCTS AGAINST DECAY Location Required: Naturally durable or preservative-treated wood required at 1) crawl spaces (n/a); 2) contact with concrete or masonry foundation walls closer than 8" to exposed ground; 3) sills & sleepers in direct contact with concrete on ground, unless separated by impervious moisture barrier; 4) ends of girders entering concrete or masonry walls w/ less than 1/2" clearance, all sides; 5) siding, sht'g, framing in exterior walls w/ less than 6" clear to grade, or 2" to concrete; 6) structural members exposed to weather; 7) members in contact with interior side of masonry or concrete walls below grade [R317.1].

Field Treatment: treatment of field-cut ends required [R317.1.1]. Ground Contact: n/a (no wood embedded) [R317.1.2] Geographical Areas: n/a [R317.1.3]

Wood Columns: n/a (no wood columns) [R317.1.4]

Quality Mark: pressure-preservative-treated wood to be marked with required information as per R317.2.

Fasteners: coatings required at preservative-treated and fire-retardant treated wood required as

PROTECTION AGAINST SUBTERRANEAN TERMITES

Chemical Termiticide treatment, and/or treated or naturally-durable woods, and/or physical barriers, and/or metal framing required [R318.1]. Where applicable, lumber to be marked [R318.1.1]. Foam plastics not required to be protected in this zone [R318.4, ref. R301.2(6)].

SITE ADDRESS

per R317.3.

Address numbers required to be visible from street [R319]. Provide letters/numbers with height no less than 4" and stroke width no less than 0.5". Provide in contrasting color to background surface.

ACCESSIBILITY

Not required (single family structure), R320.

ELEVATORS AND PLATFORM LIFTS None [R321]

FLOOD RESISTANT CONSTRUCTION Not applicable (project is not in a flood hazard area) [R322].

STORM SHELTERS

Not applicable (no storm shelters proposed as a part of this project) [R323].

CH. 4 / FOUNDATIONS Refer to Geotechnical Report for soils and foundation information.

Refer to structural drawings for loads and design calculations. Drainage: min. 6" in 10' away from structure (grade); 2% @ impervious surfaces [R401.3] Materials: concrete (ref. struct.) Footings: design and support as per geotechnical report and structural drawings. Minimum Depth: extended below frost line [R403.1.4.1] Slope: top surface to be level, bottom to slope not more than 10% [R403.1.5]. Footings adjacent to slopes - 12" plus 2% required [R403.1.7.3]. Frost-Protected Shallow Foundations: insulation to be as per ASTM C 578 [R403.3]. Protect, and provide gravel below horizontal insulation below ground, with drain to daylight [R403.3.3]. Air Freezing Index: 2000 [FIGURE/TABLE R403.3(2), Utah, Weber County].

Foundation Insulation: Provide extruded polystyrene insulation required [TABLE R403.3(1),

FOUNDATION DRAINAGE Required where foundation walls retain earth and enclose habitable space below grade. Perforated pipe to be installed at or below the area to be protected, with discharge to a drainage system by gravity. Perforated pipe to be placed on a min. of 2" of washed gravel, one sieve size larger than the perforation, and covered with not less than 6" of the same material. [R405].

FOUNDATION WATERPROOFING AND DAMPPROOFING Waterproofing from top of footing to finished grade required. All joints in membrane waterproofing to be lapped and sealed [R406.2].

COLUMNS

Wood and steel column minimum sizes and protection to be as per R407.

UNDER-FLOOR SPACE

Not applicable (no under-floor space proposed) [R408]

footnotes d & e], calculated at 4.5R per inch (footnote c).

CH. 5 / FLOORS Refer to structural drawings

CH. 6 / WALL CONSTRUCTION

Refer to structural drawings.

WOOD FRAMING Sawn Lumber: DOC PS 20 Prefabricated Wood I-joists: ASTM D5055 Structural Glue Laminated Timber: ANSI/AITC A190.1 & ASTM D3737 Wood Structural Panels: DOC PS 1, DOC PS 2, or ANSI/APA PRP 210 Preservative Treated Wood: AWPA Standard U1 and M4; Preservatives as per AWPA U1

EXTERIOR WINDOWS AND DOORS Note: For site built windows, refer to Building Planning, Glazing, R308.5. Site built windows to comply with IBC Section 2404.

Manufacturerd windows and doors to be installed and flashed in accordance with the fenestration manufacturer's written installation instructions. Flash per Section R703.4. Design of windows and doors to be as required for wind loads per Table R301.2(2), adjusted for height and exposure per Table R301.2(3). Compliance and labeling for windows and sliding doors required as per AAMA/WDMA/CSA 101/I.S.2/A440. Hinged doors AAMA/WDMA/CSA 101/I.S.2/A440 or comply with R609.3 (ASTM E 330, glass ref. R308.4.1) [R609]. Garage doors ASTM E 330 or ANSI/DASMA 108.

STRUCTURAL INSULATED PANEL WALL CONSTRUCTION Not applicable (none specified) [R610].

CH. 7 / WALL COVERING

INTERIOR COVERING Note: for flame spread & smoke-development requirements, ref. R302.9

Interior Plaster:

Gypsum Plaster: materials - ASTM C 5, C 22, C 28, C 35, C 59, C 61, C 587, C 631, C 847, C 933, C 1032, C 1047; install per ASTM C 843 and C 844. Lath/base for veneer plaster ASTM C Cement Plaster: materials - ASTM C 91 (Type M, S or N), C 150 (Type I, II and III), C 595 Type IP, I (PM), IS and I (SM), C 847, C 897, C 926, C 933, C 1032, C 1047 and C 1328; install per (Note: Due to project location and altitude, project requirements are based on Climate Zone 6)

Min. 3 coats o/ lath; 2 coats o/ other bases; veneer plaster 1 coat max. 3/16" thk., w/ total thickness per Table R702.1(1). SEE TABLE

ASTM C 1063. Gypsum lath per ASTM C 1396.

Support spacing for gypsum or metal lath on walls or ceilings not to exceed 16" for 3/8" thick, or 24" for 1/2" thick plain gypsum lath. Lath to be at right angles to supports with end joints in adjacent courses staggered not less than one framing space [R702.2.3].

Gypsum Board: compliance with ASTM standards, over wood framing not less than 2" nominal thickness in the least dimension or furring strips not less than 1"x2" nominal over solid backing, 24" o.c. max. [R702.3.1]. 5/8" gwb, ceilings, framing perp. @ 24" o.c. max - Type W screws @ 12" o.c. max. w/ not less than 5/8" penetration. (16" o.c. for framing 16" o.c., requ'd @ water-resistant gwb areas) [R702.3.5, 702.3.6, 702.3.8].

Exterior wall gwb attachment to be as per Item 38, Table R602.3(1) (Type S @ 7" o.c. field, and boundary).

Water-resistant gwb @ base for nonabsorbent finish materials and ceramic tile to be ASTM C 1396, C 1178, or C 1278. Do not install a Class I or II vapor retarder in a shower or tub compartment. Seal all cut or exposed edges as per mfr [702.3.7].

Ceramic Tile: install per ANSI A108.1, 108.4, 108.5, 108.6, 108.11, 118.1, 118.3, 136.1, 137.1. Backers to be as per ASTM C 1288. C 1325. C 1178. or C 1278.

Other finishes: n/a | Wood Shakes and Shingles: n/a

Vapor Retarders: Class I or II required on interior side of frame walls (Climate Zone 5), except where wall is below grade, or a basement wall. Class shall be as per mfr certified testing; Class I - sheet polyethylene, unperforated aluminum foil; Class II - kraft-faced fiberglass batts [R702.7, R702.7.1].

EXTERIOR COVERING

Weather-resistance, water resistance, wind resistance and water-resistive barrier required [R703.1, R703.1.1]. Ref. TABLE R301.2(2) R301.2(3) for wind loads.

Steel Siding - over wood sht'g: min. 29ga, lap joints, w/ water-resistive barrier, corrosion-resistant 0.113 nail 1-3/4" (round head), ea. stud [TABLE 703.3(1)] Wood Siding (rain screen):

Flashing: corrosion-resistant flashing (self-adhered membranes used as flashing as per AAMA 711) reg'd @ ext. window and door openings; at intersection of chimneys; under and at the ends of masonry, wood or metal copings and sills; cont. above all projecting wood trim; where exterior porches, decks or stairs attach to a wall or floor assembly of wood-frame construction; wall and roof intersections; built-in gutters [R703.4].

CH. 8 / ROOF-CEILING CONSTRUCTION

Refer to structural for structural design and loads. Ventilation not required for unventilated attic and enclosed rafter assembly where insulation is Class II vapor barrier [R806.5].

CH. 9 / ROOF ASSEMBLIES

REQUIREMENTS FOR ROOF COVERINGS

ROOF INSULATION [R906.2]

Classification: Class C per R302.2.2 Weather Protection: Coverings and flashings required [R903.2].

Thermoset Single-Ply Roofing: 1/4" per foot (2%) min. slope; ASTM D 4434, ASTM D 6754, ASTM D 6878, or CGSB CAN/CGSB 37.54 [R905.13].

Application: per Code, mfr. and component and cladding pressures [R905]

4450 or UL 1256. CH. 10 / CHIMNEYS AND FIREPLACES

Note: if specified, the fireplace stove, a free-standing, chimney-connected solid-fuel-burning heater is listed, labeled and installed in accordance with the conditions of the listing, with testing per UL 127 [R1004]. Combustion air as per R1006

Above-deck thermal insulation permitted if covered with roof covering and complies with FM

CH. 11 / ENERGY EFFICIENCY Ref. Energy Code

Ref. mechanical CH. 24 / FUEL GAS

Ref. mechanical and plumbing

CH. 12 - 23 / MECHANICAL

CH. 25 - 33 / PLUMBING Ref. plumbing

CH. 34 - 43 / ELECTRICAL Ref. electrical

APPENDIX F / RADON CONTROL METHODS

Radon resistant construction is assumed based on radon levels in excess of 4 pCi/L (radon.utah.gov) in accordance with Zone 1 requirements [TABLE AF101(1)]. Site-testing for radon levels required to confirm radon mitigation techniques required. Subfloor Preparation: gas-permeable, uniform layer of clean aggregate, min. 4" thick, passing through a 2" sieve and retained by a 1/4" sieve.

Soil-Gas-Retarder: min. 6-mil polyethylene flexible sheeting material placed on top of the gas-permeable layer; lap seams min. 12"; penetrations sealed. Entry Routes: close/seal openings around bathtubs, showers, w/c, pipes, etc. with polyurethane caulk or equivalent sealant. Same for concrete joints.

Condensate Drains, Sumps, Air-Handling Units, Ducts, etc.: ref. mechanical and plumbing Passive Subslab Depressurization System: ref. mechanical, plumbing, and electrical

APPENDIX K / SOUND TRANSMISSION

For separation between dwelling units: Wall Assemblies: min. STC 45 when tested as per ASTM E 90. Concrete masonry assemblies to be as per TMS 0302 or testing in accordance with ASTM E 90. Floor-Ceiling Assemblies: n/a

The sound transmission class (STC rating) of a double stud wall per USG 050819 is STC 66.

IECC REQUIREMENTS

TABLE R402.1.1 [IECC N1102.1.1] INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT ^a CEILING WOOD FRAME MASS FLOOR BASEMENT^C SLAB^d FENES- SKYLIGHT FENES-U-FACTOR^b FACTOR^b TRATION SHGC^{b, e} VALUE R-VALUE $\begin{bmatrix} 20+5 \text{ or} \\ 13+10^{\text{h}} \end{bmatrix}$ 15/20 $\begin{bmatrix} 30^{\text{g}} \end{bmatrix}$ 15/19 $\begin{bmatrix} 10, 4 \text{ ft} \end{bmatrix}$ 15/19 6 0.32 0.55 NR 49

R-values are minimums. U-factors and SHGC are maximums. When insulation is installed in a cavity which is less than the label or design thickness of the insulation, the installed R-value of the insulation shall not be less than the R-value specified in the table.

The fenestration U-factor column excludes skylights. The SHGC column applies to all glazed fenestration. Exception: Skylights may be excluded from glazed fenestration SHGC requirements in Climate Zones 1 through 3 where the SHGC for such skylights does not exceed 0.30.

"15/19" means R-15 continuous insulation on the interior or exterior of the home or R-19 cavity insulation at the interior of the basement wall. "15/19" shall be permitted to be met with R-13 cavity insulation on the interior of the basement wall plus R-5 continuous insulation on the interior or exterior of the home. "10/13" means R-10 continuous insulation on the interior or exterior of the home or R-13 cavity insulation at the interior of the basement wall.

d. R-5 shall be added to the required slab edge R-values for heated slabs. Insulation depth shall be the depth of the footing or 2 feet, whichever is less in Climate Zones 1 through 3

e. There are no SHGC requirements in the Marine Zone.

Basement wall insulation is not required in warm-humid locations as defined by Figure R301.1 and Table R301.1 Or insulation sufficient to fill the framing cavity, R-19 minimum.

First value is cavity insulation, second is continuous insulation or insulated siding, so "13+5" means R-13 cavity insulation plus R-5 continuous insulation or insulated siding. If structural sheathing covers 40 percent or less of the exterior, continuous insulation

structural sheathing is used – to maintain a consistent total sheathing thickness. The second R-value applies when more than half the insulation is on the interior of the

> 2015 INTERNATIONAL RESIDENTIAL CODE TABLE R301.2(1) CLIMATIC AND GEOGRAPHIC DESIGN CRITERIA

R-value shall be permitted to be reduced by no more than R-3 in the locations where

WINTER ICE BARRIER GROUND WIND DESIGN SUBJECT TO DAMAGE FROM SNOW LOAD (psf) | SPEED | TOPO-GRAPHIC (psf) | TOPO UNDER- FLOOD D SEVERE 3'-6" MOD - HEAVY -9.6°F YES

a. Weathering may require a higher strength concrete or grade of masonry than necessary to

with the weathering index (i.e., "negligible," "moderate" or "severe") for concrete as

jurisdiction shall fill in the frost line depth column with the minimum depth of footing

satisfy the structural requirements of this code. The weathering column shall be filled in

determined from the Weathering Probability Map [Figure R301.2(3)]. The grade of masonry units shall be determined from ASTM C 34, C 55, C 62, C 73, C 90, C 129, C 145, C 216 or C 652. The frost line depth may require deeper footings than indicated in Figure R403.1(1). The

The jurisdiction shall fill in this part of the table to indicate the need for protection depending on whether there has been a history of local subterranean termite damage.

The jurisdiction shall fill in this part of the table with the wind speed from the basic wind speed map [Figure R301.2(4)A]. Wind exposure category shall be determined on a site-specific basis in accordance with Section R301.2.1.4. e. The outdoor design dry-bulb temperature shall be selected from the columns of 971/2-percent values for winter from Appendix D of the International Plumbing Code.

or local weather experience as determined by the building official. f. The jurisdiction shall fill in this part of the table with the seismic design category determined from Section R301.2.2.1.

The jurisdiction shall fill in this part of the table with (a) the date of the jurisdiction's entry into the National Flood Insurance Program (date of adoption of the first code or ordinance for management of flood hazard areas), (b) the date(s) of the Flood Insurance Study and (c) the panel numbers and dates of all currently effective FIRMs and FBFMs or other flood hazard map adopted by the authority having jurisdiction, as amended.

Deviations from the Appendix D temperatures shall be permitted to reflect local climates

In accordance with Sections R905.2.7.1, R905.4.3.1, R905.5.3.1, R905.6.3.1, R905.7.3.1 and R905.8.3.1, where there has been a history of local damage from the effects of ice damming, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall fill in this part of the table with "NO." The jurisdiction shall fill in this part of the table with the 100-year return period air freezing

National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)" at www.ncdc.noaa.gov/fpsf.html. The jurisdiction shall fill in this part of the table with the mean annual temperature from the National Climatic Data Center data table "Air Freezing Index-USA Method (Base 32°F)" at

index (BF-days) from Figure R403.3(2) or from the 100-year (99 percent) value on the

www.ncdc.noaa.gov/fpsf.html. In accordance with Section R301.2.1.5, where there is local historical data documenting structural damage to buildings due to topographic wind speed-up effects, the jurisdiction shall fill in this part of the table with "YES." Otherwise, the jurisdiction shall indicate "NO" in this part of the table.

TABLE R302.1(2)
EXTERIOR WALLS—DWELLINGS WITH FIRE SPRINKLERS

EXTERIO	R WALL ELEMENT	MINIMUM FIRE-RESISTANCE RATING	MINIMUM FIRE SEPARATION DISTANCE
Walls	Fire-resistance rated	1 hour—tested in accordance with ASTM E 119 or UL 263 with exposure from the outside	0 feet
	Not fire-resistance rated	0 hours	3 feet ^a
D	Fire-resistance rated	1 hour on the underside	2 feet ^a
Projections	Not fire-resistance rated	0 hours	3 feet
O	Not allowed	N/A	< 3 feet
Openings in walls	Unlimited	0 hours	3 feet ^a
D	All	Comply with Section R302.4	< 3 feet
Penetrations	All	None required	3 feet ^a

For SI: 1 foot = 304.8 mm. N/A = Not Applicable

a. For residential subdivisions where all dwellings are equipped throughout with an automatic sprinkler systems installed in accordance with Section P2904, the fire separation distance for nonrated exterior walls and rated projections shall be permitted to be reduced to 0 feet, and unlimited unprotected openings and penetrations shall be permitted, where the adjoining lot provides an open setback yard that is 6 feet or more in width on the opposite side of the property line

STUDIO MA 130 N Central Avenue No.300 hoenix. Arizona 85004

602 251 3800 ma project no

6-101

sma project name POWDERCAT

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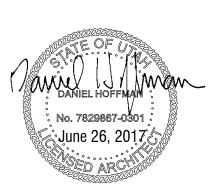
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PLAN REVIEW ACCEPTANCE FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOV ▼ MECHANICAL ▼ PLUMBING ENERGY XELECTRICAL ACCESSIBILITY FIRE PLAN REVIEW ACCEPTANCE OF DOCUME ES NOT AUTHORIZE CONSTRUCTION TO OCEED IN VIOLATION OF ANY FEDERAL STATE, OR LOCAL REGULATIONS. MEM WEST COAST CODE CONSULTANTS, INC

PERMIT SET phase / rev

Powdercat Lots 125 - 132 Project

2015 IECC Energy Code: Location: Ogden, Utah **Multi-family** Construction Type: Project Type: New Construction Orientation: Unspecified Conditioned Floor Area: 16,415 ft2 Glazing Area **20**% Climate Zone: 5 (5557 HDD)

Permit Date: Permit Number:

Construction Site: 8449 E Copper Crest Rd Eden, UT 84310

Owner/Agent: Orr Powdercat Th Development, 11180 Sunrise Valley Drive, Ste 300 Reston, VA 20191 703-289-2125

Designer/Contractor: Studio Ma, Inc. 130 N. Central Ave #300 Phoenix, AZ 85004 602-251-3800 keil@studioma.com

ompliance: Passes using UA trade-off

Maximum UA: 4375 Your UA: 3686 Compliance: 15.7% Better Than Code The % Better or Worse Than Code Index reflects how close to compliance the house is based on code trade-off rules. It DOES NOT provide an estimate of energy use or cost relative to a minimum-code home.

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	U-Factor	UA
Metal Roof o/ Truss: Flat Ceiling or Scissor Truss	7,067	38.0	12.5	0.022	155
Membrane Roof (Terrace) o/ 14"D Joists: Flat Ceiling or Scissor Truss	2,255	38.0	30.0	0.016	36
Soffit: All-Wood Joist/Truss:Over Outside Air	438	38.0	0.0	0.026	11
Garage + Utility Floor/Ceiling: All-Wood Joist/Truss:Over Unconditioned Space	3,577	38.0	0.0	0.026	93
Slab on Grade: Slab-On-Grade:Heated Insulation depth: 6.0'	1,861		15.0	0.655	1219
Above Grade Walls (1-1/2" Insul): Wood Frame, 16" o.c. Orientation: Unspecified	5,370	21.0	6.5	0.040	128
Window: Wood Frame:Double Pane with Low-E Orientation: Unspecified	1,004			0.270	271
Door: Solid Orientation: Unspecified	1,177			0.400	471
Above Grade Walls (3" Insul): Wood Frame, 16" o.c. Orientation: Unspecified	13,417	21.0	12.9	0.032	339
Window: Wood Frame:Double Pane with Low-E Orientation: Unspecified	2,808			0.300	842
Retaining Walls (3" Insul): Solid Concrete or Masonry Orientation: Unspecified Wall height: 10.0' Depth below grade: 9.5' Insulation depth: 10.0'	2,962	0.0	15.0	0.041	121

Project Title: Powdercat Lots 125 - 132 Report date: 06/27/17 Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 1 of 10 full building.rck

Section # & Req.ID	Foundation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.2 [FO1] ¹	Slab edge insulation R-value.	R Unheated Heated	R Unheated Heated	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
402.1.2 [FO3] ¹	Slab edge insulation depth/length.	ft	ft	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
402.1.1 [FO4] ¹	Conditioned basement wall insulation R-value. Where interior insulation is used, verification may need to occur during Insulation Inspection. Not required in warm-humid locations in Climate Zone 3.	R R	R R	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2 [FO5] ¹	Conditioned basement wall insulation installed per manufacturer's instructions.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: a0.21
402.2.9 [FO6] ¹	Conditioned basement wall insulation depth of burial or distance from top of wall.	ft	ft	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2.1 [FO11] ²	A protective covering is installed to protect exposed exterior insulation and extends a minimum of 6 in. below grade.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: a0.21, a5.00
403.9 [FO12] ²	Snow- and ice-melting system controls installed.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: M0.3

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: Powdercat Lots 125 - 132 Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 4 of10 full building.rck

Compliance Statement: The proposed building design described here is consistent with the building plans, specifications, and other calculations submitted with the permit application. The proposed building has been designed to meet the 2015 IECC requirements in REScheck Version 4.6.4 and to comply with the mandatory requirements listed in the REScheck Inspection Checklist.

> 06/27/2017 James 13/ mon Date

Project Notes: Unit address: 8443 Lot 124 8449 Lot 125 8451 Lot 126 8455 Lot 127 8459 Lot 128 8463 Lot 129 8465 Lot 130 8469 Lot 131 8471 Lot 132

8477 Lot 133

No. 7829867-0301 6.06/27/201<u>7</u>6

Report date: 06/27/17 Project Title: Powdercat Lots 125 - 132 Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 2 of 10 full building.rck

Section # & Req.ID	Framing / Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
402.1.1, 402.3.4 [FR1] ¹	Door U-factor.	U	U	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
402.1.1, 402.3.1, 402.3.3, 402.3.6, 402.5 [FR2] ¹	Glazing U-factor (area-weighted average).	U	U	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.1.3 [FR4] ¹	U-factors of fenestration products are determined in accordance with the NFRC test procedure or taken from the default table.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. Location on plans/spec: a6.10
402.4.1.1 [FR23] ¹	Air barrier and thermal barrier installed per manufacturer's instructions.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: a0.20-a0.21
402.4.3 [FR20] ¹	Fenestration that is not site built is listed and labeled as meeting AAMA /WDMA/CSA 101/I.S.2/A440 or has infiltration rates per NFRC 400 that do not exceed code limits.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
402.4.5 [FR16] ²	IC-rated recessed lighting fixtures sealed at housing/interior finish and labeled to indicate ≤2.0 cfm leakage at 75 Pa.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement is not applicable.
403.2.1 [FR12] ¹	Supply and return ducts in attics insulated >= R-8 where duct is >= 3 inches in diameter and >= R-6 where < 3 inches. Supply and return ducts in other portions of the building insulated >= R-6 for diameter >= 3 inches and R-4.2 for < 3 inches in diameter.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: M3.0
403.3.3.5 [FR15] ³	Building cavities are not used as ducts or plenums.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
403.4 [FR17] ²	HVAC piping conveying fluids above 105 °F or chilled fluids below 55 °F are insulated to ≥R-3.	R	R	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: M3.0
403.4.1 [FR24] ¹	Protection of insulation on HVAC piping.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. Location on plans/spec: M3.0
403.5.3 [FR18] ²	Hot water pipes are insulated to ≥R-3.	R	R	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: P0.1
403.6 [FR19] ²	Automatic or gravity dampers are installed on all outdoor air intakes and exhausts.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. Location on plans/spec: M0.1

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3) Project Title: Powdercat Lots 125 - 132 Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 5 of 10 REScheck Software Version 4.6.4 **Inspection Checklist** Energy Code: 2015 IECC

Requirements: 100.0% were addressed directly in the REScheck software Text in the "Comments/Assumptions" column is provided by the user in the REScheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Pre-Inspection/Plan Review	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
103.1, 103.2 [PR1] ¹	Construction drawings and documentation demonstrate energy code compliance for the building envelope. Thermal envelope represented on construction documents.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. Location on plans/spec: a0.10
103.1, 103.2, 403.7 [PR3] ¹	Construction drawings and documentation demonstrate energy code compliance for lighting and mechanical systems. Systems serving multiple dwelling units must demonstrate compliance with the IECC Commercial Provisions.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: M0.1, M0.3
302.1, 403.7 [PR2] ²	Heating and cooling equipment is sized per ACCA Manual S based on loads calculated per ACCA Manual J or other methods approved by the code official.	Heating: Btu/hr Cooling: Btu/hr	Heating: Btu/hr Cooling: Btu/hr	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: M0.1

Additional Comments/Assumptions:

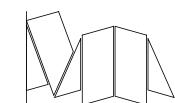
1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Powdercat Lots 125 - 132 Report date: 06/27/17 Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 3 of 10 full building.rck

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Powdercat Lots 125 - 132 Data filename: D:\projects\16-101 SPM Powdercat\doc\3 regulatory\Green Building Standard\Powdercat - Page 6 of 10



STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295



PLAN REVIEW ACCEPTANCE FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW MECHANICAL PLUMBING
ELECTRICAL ENERGY
ACCESSIBILITY FIRE PLAN REVIEW ACCEPTANCE OF DOCUMENT DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS. WEST COAST CODE CONSULTANTS, INC

N/A scale

PERMIT SET phase / rev

Section # & Req.ID	Insulation Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
803.1 IN13] ²	All installed insulation is labeled or the installed R-values provided.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
102.1.1, 102.2.6 IN1] ¹	Floor insulation R-value.	R Wood Steel	R Wood Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
803.2, 102.2.7 IN2] ¹	Floor insulation installed per manufacturer's instructions and in substantial contact with the underside of the subfloor, or floor framing cavity insulation is in contact with the top side of sheathing, or continuous insulation is installed on the underside of floor framing and extends from the bottom to the top of all perimeter floor framing members.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: a5.03
102.1.1, 102.2.5, 102.2.6 IN3] ¹	Wall insulation R-value. If this is a mass wall with at least ½ of the wall insulation on the wall exterior, the exterior insulation requirement applies (FR10).	R Wood Mass Steel	R Wood Mass Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.2 IN4] ¹	Wall insulation is installed per manufacturer's instructions.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. Location on plans/spec: a0.20-a0.21

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
404.1.1 [FI23] ³	Fuel gas lighting systems have no continuous pilot light.			☐Complies ☐Does Not	Exception: Requirement is not applicable.
(9)				□Not Observable □Not Applicable	
401.3 [FI7] ²	Compliance certificate posted.			□Complies □Does Not	Requirement will be met.
				□Not Observable □Not Applicable	
303.3 [FI18] ³	Manufacturer manuals for mechanical and water heating			☐Complies ☐Does Not	Requirement will be met.
systems have been provided.			□Not Observable □Not Applicable		

Additional Comments/Assumptions:

1 / / [CC Energ	
Insulation Rating	R-Value	
Above-Grade Wall	33.90	
Below-Grade Wall	15.00	
Floor	38.00	
Ceiling / Roof	50.50	
Ductwork (unconditioned spaces	j):	
Glass & Door Rating	U-Factor	SHGC
Window	0.30	
Door	0.40	
Heating & Cooling Equipment	Efficiency	
Heating System:		
Cooling System:		
Water Heater:		

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Section #	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
& Req.ID 402.1.1, 402.2.1, 402.2.2, 402.2.6 [FI1] ¹	Ceiling insulation R-value.	R Wood Steel	R Wood Steel	□Complies □Does Not □Not Observable □Not Applicable	See the Envelope Assemblies table for values.
303.1.1.1, 303.2 [FI2] ¹	Ceiling insulation installed per manufacturer's instructions. Blown insulation marked every 300 ft ² .			Complies Does Not Not Observable Not Applicable	Requirement will be met. Location on plans/spec: a0.20, a5.04
402.2.3 [FI22] ²	Vented attics with air permeable insulation include baffle adjacent to soffit and eave vents that extends over insulation.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement is not applicable.
402.2.4 [FI3] ¹	Attic access hatch and door insulation ≥R-value of the adjacent assembly.	R	R	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: There are no accessible attispaces
402.4.1.2 [FI17] ¹	Blower door test @ 50 Pa. <=5 ach in Climate Zones 1-2, and <=3 ach in Climate Zones 3-8.	ACH 50 =	ACH 50 =	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
402.4.2 [FI8] ²	Wood-burning fireplaces have tight fitting flue dampers and outdoor air for combustion.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: Specification section 10 30
403.2.3 [FI4] ¹	Duct tightness test result of <=4 cfm/100 ft2 across the system or <=3 cfm/100 ft2 without air handler @ 25 Pa. For rough-in tests, verification may need to occur during Framing Inspection.	cfm/100 ft ²	cfm/100 ft ²	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: M0.3
403.3.2 [FI27] ¹	Ducts are pressure tested to determine air leakage with either: Rough-in test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the system including the manufacturer's air handler enclosure if installed at time of test. Postconstruction test: Total leakage measured with a pressure differential of 0.1 inch w.g. across the entire system including the manufacturer's air handler enclosure.	ft ² cfm/100	ft ² cfm/100	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: M0.3
403.3.2.1 [FI24] ¹	Air handler leakage designated by manufacturer at <=2% of design air flow.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement is not applicable.
403.1.1 [FI9] ²	Programmable thermostats installed for control of primary heating and cooling systems and initially set by manufacturer to code specifications.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: M3.0
403.1.2 [FI10] ²	Heat pump thermostat installed on heat pumps.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement is not applicable.

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Section # & Req.ID	Final Inspection Provisions	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
403.5.1 [FI11] ²	Circulating service hot water systems have automatic or accessible manual controls.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. Location on plans/spec: P0.1, P0.2
403.6.1 [FI25] ²	All mechanical ventilation system fans not part of tested and listed HVAC equipment meet efficacy and air flow limits.			Complies Does Not Not Observable Not Applicable	Exception: Requirement is not applicable.
403.2 [FI26] ²	Hot water boilers supplying heat through one- or two-pipe heating systems have outdoor setback control to lower boiler water temperature based on outdoor temperature.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: M0.3
403.5.1.1 [FI28] ²	Heated water circulation systems have a circulation pump. The system return pipe is a dedicated return pipe or a cold water supply pipe. Gravity and thermossyphon circulation systems are not present. Controls for circulating hot water system pumps start the pump with signal for hot water demand within the occupancy. Controls automatically turn off the pump when water is in circulation loop is at set-point temperature and no demand for hot water exists.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: M0.2
403.5.1.2 [FI29] ²	Electric heat trace systems comply with IEEE 515.1 or UL 515. Controls automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. Location on plans/spec: P0.1
403.5.2 [FI30] ²	Water distribution systems that have recirculation pumps that pump water from a heated water supply pipe back to the heated water source through a cold water souply pipe have a demand recirculation water system. Pumps have controls that manage operation of the pump and limit the temperature of the water entering the cold water piping to 104°F.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement is not applicable.
403.5.4 [FI31] ²	Drain water heat recovery units tested in accordance with CSA B55.1. Potable water-side pressure loss of drain water heat recovery units < 3 psi for individual units connected to one or two showers. Potable water-side pressure loss of drain water heat recovery units < 2 psi for individual units connected to three or more showers.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement is not applicable.
404.1 [FI6] ¹	75% of lamps in permanent fixtures or 75% of permanent fixtures have high efficacy lamps. Does not apply to low-voltage lighting.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: ARCH

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

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sma project name
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AO.12
ENERGY
COMPLIANCE
REPORT

N/A scale



PERMIT SET phase / rev

PROJECT MANAGEMENT AND COORDINATION:

This project occurs within a development owned and controlled by Summit Mountain Holding Group, the Master Developer. Contractor shall coordinate with Master Developer for approval of construction mitigation plan, staging and laydown areas, cross-parcel access, temporary utilities, and snow removal on private roads.

The Contractor will be responsible for providing all labor, material, equipment, services, and transportation necessary for the construction of the Project, including engaging all jurisdictional and service providers for coordination of inspections, utility connections, and

Owner-furnished Contractor-Installed items will be managed by the Contractor. The Contractor will provide a CPM schedule indicating when all OFCI items must be received on-site for maintaining the project schedule, will provide coordination with the Work, and will handle, store, assemble, install, and connect such items, including furnishing accessories, etc. as required for serviceable and operative condition. The Contractor will coordinate with the Architect to review all fixture and utility rough-ins, openings, supports, dimensions, etc. as required for a coordinated installation of all fixtures, equipment, and OFCI items.

Contractor is solely responsible for construction schedule, including without limitation, procurement, sequencing of work, and permitting. Contractor will schedule all inspections, and obtain all certifications from local, county, or state officials as required for every element of the project requiring review and approval.

Contractor shall notify the Architect immediately if Contractor observes any part of the Construction Documents are at variance in any respect to applicable laws, statutes, building codes and regulations. If the Contractor performs Work knowing it to be in conflict with such laws, ordinances, rules and regulations then the Contractor will assume full responsibility and bear the attributable costs for correcting the Work.

Progress Meetings - Contractor will convene a regular project team meeting at a time and location convenient to all parties to review the following topics:

- 1. Ongoing business
- 2. Review of RFI log
- 3. Review of Submittal log 4. Field report action items
- 5. Overall project CPM schedule, and 3-week look-ahead schedules
- 6. Permit status for deferred submittal items
- 7. Items required by construction team to maintain schedule
- 8. Cost tracking, buyout, and design evolution logs

Contractor will record minutes and distribute to all parties.

Special Meetings - Contractor will also hold meetings for the following: Preconstruction conference - prior to commencing work on the site, a full project team meeting will be held to establish and review the following:

- 1. Project overview
- 2. Schedule of Work
- 3. Procedures
- 4. Team representatives 5. Schedule of Values
- 6. Subcontractor list and qualifications

Pre-installation conferences - prior to commencing work on any major system, scope, or finish the Contractor will schedule a meeting with the Architect and Subcontractor (and manufacturer representative(s) when applicable), and will record minutes and distribute to all parties. At a minimum, the following scope must be reviewed:

- 1. Concrete formwork and placing, and below-grade waterproofing
- 2. Structural framing (structural steel and wood stud)
- 3. Building Envelope: weatherproofing, wood and metal cladding, etc.
- 4. Windows and exterior doors
- 5. Roofing
- 6. Sheet metal fabrications 7. Sealants and firestopping
- 8. Fire sprinkler system
- 9. Mechanical and plumbing systems 10. Finishes: gypsum board, wood floor, tile, carpet, painting, etc.

RFI AND SUBMITTAL PROCEDURES:

Submit all formal requests for information on the provided form, indicating the referenced drawing/detail and/or specification section requiring clarification. Contractor is to make good faith efforts to fully examine the documents for answers to questions prior to submitting formal RFI's. All questions should be presented as soon as possible to the Architect and Engineer for resolution - questions and associated responses may be submitted as "confirming RFI's" to maintain progress on the Work. All questions from Subcontractors must be submitted through the Contractor - no direct correspondence from Subcontractors will be addressed by the Architect or Engineer without the participation of the General Contractor.

All submittals are to be made in accordance with a submittal schedule to be prepared by the Contractor which accounts for review time, approval time, resubmittal and review, and procurement so as not to delay the project. Failure to properly submit required materials in a timely manner will not be cause for any schedule extension or additional money to the Contractor. Refer to Submittal Matrix contained herein for submittals requiring samples and mockups. Contractor is responsible for all costs associated with obtaining all sample materials and preparing assembly mockups for Architect/Owner approval so as not to delay the project.

Submit clean, original PDF documentation and shop drawings for all specified materials, assemblies, and systems. Submit material and product samples in quantities as follows: (1) for Architect review; (1) for Contractor records; (1) for Owner's Representative. Contractor is responsible for engaging qualified design/builders for all deferred submittal scope including, but not limited to, fire sprinklers, fabricated wood joists, and fireproofing and fire stopping systems, and window wall engineering. No submittals to Authorities Having Jurisdiction (AHJ) may be made by Contractor until reviewed and approved by the Architect/Engineer and found to generally conform with design documents.

01 40 Quality Requirements

REFERENCED STANDARDS:

Refer to Contract Documents for list of industry organizations and referenced standards with contact and website information. All referenced standards, data, and guidelines will be made available to the Contractor upon request. Unless specifically noted, the most current version of each standard, guideline, or reference applies.

TESTING AND LABORATORY SERVICES

Contractor to retain an independent testing lab to perform required tests and inspections, and pay for cost of services. Contractor to furnish samples for such test and deliver to the testing agency, and collect and distribute laboratory reports to the Architect, Engineer, and Owners Representative. Re-testing required due to Contractor's failure to comply with specified requirements will be paid for by the Contractor. Refer to geotechnical report, civil drawings and General Structural Notes for list of all conditions requiring testing.

CONTRACTOR QUALITY CONTROL:

All work is to be performed by mechanics skilled the work required. Conform to the methods, standards, and accepted practices of the trade or trades involved. Minimum standards of quality shall not apply unless no other indication of quality is made in specifications or drawings. Contractor will engage manufacturer's technical representatives or field support to review critical areas of scope including weatherproofing systems, windows, and exterior doors. If retained by the Owners, Contractor will coordinate with and respond to all reports generated by an independent quality control site observer.

Closeout Requirements

CLOSEOUT PROCEDURES:

01 70

Perform final cleaning of all areas of Work prior to requesting Substantial Completion. Fully remove all marks, stains, fingerprints, soil and dirt from all finished surfaces. Clean all furnishings, fixtures, and equipment of paint, construction dust and debris, marks, or other deleterious material. Remove all temporary protective coverings and clean surfaces to like-new condition. Clean all window glass and frames to be free of dirt, streaks, or other marks. Conditions that cannot be fully cleaned and restored to like-new condition may be subject to repair or replacement.

Contractor to maintain as-built record drawings for all systems, framing, utility layout, and hidden conditions, and for all minor changes in the work due to field conditions on final record drawings to be provided by the Architect. Include all changes as per RFI's, sketches, bulletins, and field directives and provide dimensions to within one inch (1") of actual field-verified condition.

Contractor to deliver final as-built drawings, project manual, complete set of all construction meeting minutes, all RFI's, submittals, and all other documents generated for administering the Work. All documents to be reviewed by the Architect and revised as required prior to delivering to the Owner. Produce comprehensive packages for each parcel such that common products/data/warranties/operations and maintenance material are included for each individual Owner. All documentation is to be supplied in digital (PDF) format

WARRANTY REQUIREMENTS:

The Contractor will provide a one (1) year warranty for the full project inclusive of all labor, material, installation, and weathertightness. Where manufacturer's warranty for any part, assembly, or system exceeds this duration, the manufacturer's warranty period governs. All critical items (including loss of heating, cooling, pumps, fans, etc.) shall be serviced within a 24-hour response time. Temporary provisions for such systems will be provided by the Contractor at no additional cost to the Owner if repairs cannot be made within one subsequent 8-hour work day.

All non-critical items must be serviced to completion within a 5-business day period, unless notification in writing is provided to the Owner. Notify Owner of any delays due to shipping parts, or receiving replacement equipment, and provide a scheduled date of completion. Contractor to provide the name and contact information, including 24-hour phone number, of the designated warranty provider for all major systems, and include such information in the full project closeout documents.

CONCRETE

Cast In Place Concrete

Contractor shall provide mockup samples of construction components (concrete, paving, metal work, masonry, fencing, etc.) separate from the permanent work for review and acceptance by the Architect prior to the installation of any work. Mockup samples represent the accepted level of quality and are to remain undisturbed & available for reference until the end of the project.

Notify Architect and Owner's Representative a minimum of 48 hours prior to commencement of concrete operations. Allow owner's representative to observe excavations and reinforcing prior to concrete placement.

Provide electrical and irrigation sleeves under paving to all planting areas.

Foundations: excavations shall be neat to lines of footings. All loose material shall be removed from surface to receive concrete. Place foundation concrete only on clean, firm, inspected bearing material. Footings shall bear on undisturbed native soil or compacted fill. Refer to geotechnical report. Bear footings at depths indicated on plans but at depths no shallower than the local frost depth below the grade within 5 feet of the foundation.

Verify heights, slopes, edge thicknesses, and turndowns before pouring footings and slabs

Concrete flat work on grade shall bear on undisturbed native or compacted soil as identified in geotechnical report. Refer to geotechnical report for site grading, subgrade soil preparation and fill and compaction requirements. Refer to General Structural Notes (GSN) for additional requirements - where conflicts in requirements may be found between GSN and requirements noted herein, the more stringent requirements shall prevail.

Concrete mix designs:

A. Non-footing concrete shall be 3000 psi, unless otherwise noted on drawings.

B. Footing concrete shall be as per General Structural Notes

C. All concrete subject to freezing shall be provided with air-entrainment at rate recommended by geotechnical report, and/or Civil Engineer. C. Provide concrete mix designs to Architect and Owner's Representative for review.

Concrete testing: submit prism test reports for concrete mix designs to Architect for review.

All concrete formwork shall be inspected by architect and approved prior to concrete pours. Curved formwork shall be continuous throughout the curve, without breaks or folds. Concrete flat work shall be installed with a constant slope between two spot elevations. Changes in slope shall be accomplished in a gradual manner. All hardscape shall slope away from buildings at minimum 1/8:12 (1%) slope [maximum 1:20 (5%) slope, maximum 1:50 (2%) cross slope] and meet ada requirements.

Expansion joints in paving shall be fiber board with joint cap material. Provide a minimum 1/2-inch topping of 'sika flex' or equal expansion joint filler, color to match adjacent concrete and be approved by Owner's Representative; finish with 100% coverage of silica sand. Control joints in paving shall be saw cut (unless specifically noted otherwise), straight & true. Refer to the drawings for patterns - align w/ building and other site structures as indicated.

Concrete jointing for walls and flat work is schematic in nature and conveys the minimum design intent. Additional contraction, construction and expansion joints may be required. The contractor shall review all joints shown on plans and described in the specifications prior to construction. All requests for changes to jointing shall be submitted to the Architect for review a minimum of five (5) working days prior to construction. If additional joints are necessary to alleviate cracking or facilitate construction, they shall be provided at no additional cost. Additional joints not depicted on the drawings, but requested by the Owner, Engineer or Architect for aesthetic purposes shall be considered additional to the base contract.

Except as noted otherwise, concrete work & materials to conform w/ reg's of ACI 301, 315. 318 & CRSI Manual of Standard Practice, following the structural design.

Reinforcement steel to comply w/ ASTM A706, "Standard Specification for Low-Alloy Steel Deformed & Plain Bars for Concrete Reinforcement".

CHAIRS, BOLSTERS, BAR SUPPORTS, AND SPACERS: Sized & shaped for clearance, strength & support of reinforcing during construction; Type to suit the various conditions encountered; Capable of supporting a 300-lb. concentrated load without measurable deformation of the reinforcement or supports or indentation of the supporting surface; Galvanized steel wire bar type for all work, except for work at grade where pre-cast concrete dobies may be used.

UNDERSLAB VAPOR BARRIER AND INSULATION: Provide underslab continuous vapor barrier 'Stego' 15 mil with accessory tapes and sealants for all terminations and penetrations. Provide underslab insulation equivalent to 'Dow' *Styrofoam XPS Rigid Insulation*, 3" Thick, R-15. Insulation to be installed continuously below all slabs at heated areas.

CONCRETE, ADMIXTURES AND FINISHING MATERIALS:

A. PACKAGED PRODUCTS: ASTM C387. B. PORTLAND CEMENT: ASTM C150, mod. Type II; lt. gray; single source/type thru duration

of project; American. C. NORMAL WT AGG.: ASTM C33, coarse agg. per Table 2, size 57; 1" max. for foundations, 3/4" all others.

D. MIX WATER: Drinkable & free from deleterious materials affecting concrete integrity and/or

E. AIR ENTRAINING ADMIXTURES: ASTM C260. F. ADMIXTURES FOR MAINTAINING WORKABILITY AND SET CHARACTERISTICS: ASTM C494; Type required by placing procedures & wind speed ambient temperature. Calcium chloride, thiocyanurates or admixtures containing more than 0.05% chloride ions (the quantity found in ordinary drinking water) are not permitted.

CONCRETE MIXES, MIXING & DELIVERY OF CONCRETE: All concrete shall be ready-mixed in accordance w/ ASTM C94, "Standard Specification for Ready-Mixed Concrete." All concrete shall be of homogenous structure which when hardened, will have the required strength, appearance & durability. Mix, dispense, & use concrete admixtures in accordance w/ their manufacturer's recommendations & application instructions, & ACI 212. Concrete durability/water- cement ratio: ACI 301, Section 3.4. All concrete UNO, 2500 PSI minimum. Slabs on grade 3000 PSI. Follow local methods for extended travel and extreme temperature conditions - Contractor shall make provisions for rejected loads in compliance with all environmental requirements and in coordination with Master Developer.

REINFORCING: Place reinforcing in accordance w/ the structural design, in accordance w/ ACI B. PLYWOOD: PS-1; APA graded per dimensions & span direction indicated on the drawings: 318, CRSI 63 AND CRSI 65, properly supported & secured against displacement. Set reinforcement on chairs for proper clearance, except that concrete block supports may be used in earth trenches.

PLACING AND FINISHING CONCRETE: ACI 304, supplemented by ACI 302. Leave formed exposed concrete surfaces w/ smooth, unblemished, form finish. Finish concrete floor surfaces in accordance w/ ACI 304 & ACI 302.

A. INTERIOR: Standard gray, clear sealed. Sawcut control joints, w/ 1/4" edging at slab/turndown perimeter

B. EXTERIOR @ BUILDING: Standard gray with air entrainment and with 'Grace' 03 Topcast finish, or equivalent; provide sawcut control joints. C. EXTERIOR @ SIDEWALKS: Standard gray with air entrainment and light broom finish, and

sawcut control joints. CURING: Any material and/or method permitted by ACI 302 except that black plastic sheeting

may not be used under any circumstance. Curing compounds shall be compatible w/ & shall not impair adhesion of subsequent finishes.

SEALER: Provide penetrating clear sealer on all exposed concrete slab surfaces by 'Cohills', or equivalent.

EPOXY ANCHORING ADHESIVES: 2-component high modulus, 100% solids epoxy gel adhesive, ASTM C-881 compliant.

SIDEWALKS, ON SITE

D. STANDARD NUTS: ASTM A563

PDPWL-300 (3" long)

,	,			
SIDEWALKS, OFF SITE	MATCH EXISTING / ADJACENT. REF. CIVIL			
SLAB ON GRADE	CONCRETE - STD GRAY, TROWELED FINISH - REF GSN.			
05	METALS			
05 10	Structural Metal Framing			
Refer to General Structural Notes; unless noted otherwise, the following minimum				

CONCRETE, STD GRAY, WITH LIGHT BROOM FINISH.

requirements shall apply. All structural steel members (shapes, plates & bars) to comply w/ ASTM A36, Fy=36,000 psi. All reinforcing steel to be ASTM A615, Grade 60, detailed, fabricated & erected in accordance w/ ACI318, latest edition.

Fasteners to comply w/ ASTM A153 & hot-dip galvanized for exterior use. A. LAG BOLTS: FS FF-B-56L, Square head type B. STANDARD BOLTS: ASTM A307, 3/4" dia u.n.o., Grade A, regular hexagon head C. PLAIN WASHERS: FS FF-W-92, Round, general assembly grade carbon steel

E. MASONRY ANCHORING DEVICES: Expansion shield type; FS FF-S-325 F. WOOD SCREWS: FS FF-S-111, flat head, carbon steel G. POWDER DRIVEN: 'Simpson' Type; .300 Headed fasteners w/ 1" metal washers,

All steel to be shop-primed w/ modified-alkyd, rust-inhibitive primer.

Welding materials to comply w/ AWS A5.0, E70 Series, low hydrogen type for shielded metal-arc welding

Fabricate in accordance w/ AISC Specification for the Design, Fabrication & Erection of Structural Steel for Buildings. Weld in conformance w/ AWS D1.1. Prepare all surfaces in accordance w/ Steel SSPC Painting Manual, Volume 1, "Good Painting Practice" & Volume 2, "Systems Specifications", System SP-3, followed by a uniform, 2.5-dry mil thick coating of brush or spray-applied primer in accordance w/ mfr's recommendations & application instructions.

Erect per AISC specification. Install high strength bolts as bearing type connections w/ threads included in shear plane (Type N connections) using modified turn-of-the-nut method, load indicator washers, or torque control bolt method, at contractor's option - refer to GSN for additional requirements.

Fabricate all steel exposed to view in accordance with AESS standards. Special care shall be taken with all detailing, fabrication, and installation for exposed steel members, which shall follow AISC requirements for AESS. Welds shall be continuous, of a uniform size and profile, and contoured, blended, and ground smooth; connections shall be provided with minimal tolerances equal to half the normal tolerance as specified in the Code of Standard Practice Section 10; field welding aids shall be removed; uniform gaps of 1/8" at coping and blocking, and joint gaps. Clean all surfaces to be painted and finished; remove loose rust, loose mill scale, and spatter, slag, or flux deposits. Prepare in accordance with SSPC-SP 6 (commercial blast cleaning) for exterior: polyurethane finish coat with an epoxy intermediate coat and zinc rich primer; interior: epoxy coat with an epoxy or zinc rich primer. Prior to all steel fabrication, provide sample of all anticipated exposed-to-view joints, welds, and finishes for benchmark approval.

06 WOOD. PLASTICS. & COMPOSITES

06 05 Common Work for Wood

Provide wood blocking/backing within framed walls at all equipment and fixture locations capable of supporting the weight of the affixed item(s). Use no less than 1/2 inch plywood or 2x6 lumber as applicable for each condition.

Provide wood grounds, sleepers, blocking, and nailers as indicated, or where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved. Recess bolts and fasteners flush with surfaces unless noted otherwise. Provide fire-retardant treated wood where required; provide as wood-preservative treated lumber where installed in contact with concrete or installed outside of building envelope, and provide flexible flashing membrane were preservative treated wood is in contact with metal. Remove temporary grounds when no longer required.

06 10 Rough Carpentry

Provide all materials, labor, equipment & services necessary to furnish & install: A. Structural & non-structural wall & roof framing

- B. Blocking for roofing system, related metal flashings & roof mounted equipment C. Insulation stops
- D. Concealed blocking (behind finished walls) for support of toilet & bath accessories, door hardware, wall supported fixtures, handrails, equipment, & cabinetry.
- E. Straight bolts, stock rough hardware & framing accessories for carpentry work F. All other items required for a complete framing support system

MATERIALS:

G. Sound deadening board.

A. LUMBER: PS-20; WWPA Certified or WCLB Grade stamped, D.Fir/Larch No. 2, S-Dry (19%). Wall studs to be D.Fir/Larch stud grade or better. Pressure preservative treated w/ a National Evaluation Services report number will be required of all materials in contact w/ concrete & masonry surfaces & all roof carpentry items.

Plywood w/ any portion exposed to the exterior shall have an exterior glue line (type EXT). Install w/ face grain perpendicular to supports unless specifically shown otherwise & w/ all panel edges supported or blocked. Do not substitute OSB or particle board for plywood. C. NAILS, SPIKES, & STAPLES: ASTM A153 hot-dip galvanized for use at building exterior, high humidity locations & at treated wood, plain finish elsewhere; FS FF-N-105; in general, use 8-d or larger nails for 1" thick lumber & for toe-nailing 2" thick lumber; use 16-d or larger nails

for 2" thick lumber. D. WOOD CONNECTORS: All lumber connectors specified as "Simpson" type to be manufactured by "Simpson Strong-Tie Company, Inc."

E. BOLTS, NUTS, WASHERS, LAGS, SCREWS, PINS, FASTENERS: Refer to Structural Steel. F. FRAMING ANCHORS: ICBO recognized; type, size & profile to suit application; galvanized finish; Simpson Strong Tie Connectors; Simpson Strong Tie Company, Inc.

INSTALLATION:

Erect all members square, plumb, level, free of distortion or defects, in true alignment w/ one another & w/ adjacent work, securely anchored to substrate; maintain dimensional tolerances & alignment w/ adjacent work. Finish surfaces shall provide a uniform appearance & be free from visual imperfections when exposed to view. Provide suitable anchors & fasteners for securing items to in-place construction as required by recognized standard or code. Secure framing members to the building structure using fastening anchors of sufficient strength to provide required safety factor. Comply w/ minimum requirements for nailing as scheduled in the Building Code, uno. Allow 1/16" space at panel end joints, 1/8" at panel edge joints. Where additional information is required, refer to the American Wood Council Publication WCD #1, Details for Conventional Wood Frame Construction. Publication is available at no cost at http://www.awc.org/pdf/WCD1-300.pdf. Install sound deadening board in accordance w/ manufacturer's recommendations & installation instructions. Cut, drill & fit as required for installation of miscellaneous items including internal wall blocking, nailers & grounds for attachment of finish materials, & roof carpentry such as insulation stops & cants. Allowable installation tolerances: Maximum deviation from true alignment, 1/2". Apply the most stringent of conflicting requirements.

WOOD NAILING SCHEDULE: Refer to General Structural Notes

/	06 16	Sheathing
	WOOD STRUCTURAL PANEL SHEATHING	APA-RATED PLYWOOD SHEATHING - REF. STRUCT. Provide exterior rated sheathing for all exterior conditions
	SHEATHING	and where potentially exposed to moisture, or in contact with concrete.
	FIBERGLASS-MAT FACED	'USG' SECUROCK GLASS-MAT EXTENDED EXPOSURE
	GYPSUM BOARD	(REGULAR, OR FIRECODE X, AS REQ'D), OR AS PER
		STRUCTURAL. INSTALL AS PER GA-253 & ASTM
		C1280, USING TYPE W SCREWS AS PER ASTM C1002.
		FOLLOW ALL MFR INSTALLATION RECOMMENDATIONS
	FIRE-RETARDANT TREATED	INTERIOR: 'HOOVER' PYRO-GUARD - MEETS ASTM E-84
	PLYW00D	D-3201; INSTALL AS PER ICC-ESR-1791.
		EXTERIOR: 'HOOVER' EXTERIOR FIRE-X - MEETS ASTM
		E-84, D-2898; REFER TO MFR STRENGTH TABLES FOR
		ADJUSTMENTS TO SPAN RATING AND LOADING.
	06 20	Finish Carpentry

The work includes all materials, labor, equipment & services necessary to furnish & install site fabricated finish carpentry, shop-fabricated millwork, doors, related items, hardware, attachment accessories, as well as any wood furring, blocking, shims, &/or hanging strips for installing woodwork items (unless concealed within other construction before woodwork installation).

SAMPLES FOR VERIFICATION: Veneer flitches and hardwood lumber to be provided prior to manufacturing panel products. Veneer-faced panel products with, or for, transparent finish, 8" x 10". Include at least one face-veneer seam & finish as specified.

	LOCALLY FABRICATED DOOR & DRAWER FRONTS, AND MATCHING END PANELS & TOE KICKS. SPECIES: WHITE OAK, QUARTER SAWN w/ ROTATED GRAIN AS PER ARCHITECT'S REFERENCE SAMPLE.
	ACCEPTABLE ALTERNATE DOOR/DRAWER FRONT MANUFACTURERS: 'REFORM' <i>BIG</i> SERIES w/ CUSTOM HANDLES (NOT BY 'REFORM') IN WHITE OAK VENEER.
JNTERS	'CAESARSTONE' 3/4" THK. QUARTZ COUNTERTOPS - SQUARE EDGE DETAIL AND EASED EDGES. COLOR: #4003 SLEEK CONCRETE. FINISH: HONED.
THROOMS	TO MATCH KITCHEN CABINETRY

AWI CUSTOM GRADE MODULAR BASE CABINETS w/

'ROSEBURG' SKYPLY WOOD VENEER HARDWOOD

CORE (CFC), WHITE OAK, QUARTER SAWN, SLIP

PLYWOOD WALL PANELING ON COMBINATION FIBER

FINISH: SHOP-APPLIED UV-CURED CLEAR TOPCOAT

PROVIDE PANELING TO MATCH KITCHEN CABINETRY;

PROVIDE HARDWOOD EDGE BANDING AT EXPOSED

EDGEBANDING: 1/8" THICK x FINISHED WIDTH OF

FASTENERS: AIR/POWER FINISH (BRAD) NAILER

ENDS OF FLOORING TO MATCH FACE VENEER.

BASE BOARD PAINT GRADE HARDWOOD BASE (CLEAR GRADE, NO KNOTS PERMITTED), PIGMENTED LACQUER PAINTED FINISH TO MATCH WALL FINISH ABOVE - SURFACE MOUNT o/ WALL. DOOR CASING PAINT GRADE HARDWOOD IN SQUARE EDGE PROFILES AND DIMENSIONS AS INDICATED w/ LIGHTLY EASED EDGES/CORNERS.

MATCHED.

GUARDRAIL WOOD PANELING

PANELING

KITCHEN CABINETRY

Coordinate sizes & locations of framing, blocking, furring, reinforcements, & other related units of Work specified in other Sections to ensure that interior architectural woodwork can be supported & installed as indicated.

Coordinate wood door veneers to match wood paneling (sequence matched w/ adjacent panels).

MATERIALS AND COMPONENTS:

A. MILLWORK

INTERIOR WOOD WALL

Grade all lumber materials in conformance w/ AWI-100, & all panel products in conformance w/ AWI-200; for the specified grade.

800-245-1115 www.roseburg.com. Provide Medex in lieu of Medite II at all wet areas or within 2 feet of any sink or source of water. NAILS: Size & type to suit application; non-staining, non-corrosive at moist, high-humidity

MEDIUM DENSITY FIBERBOARD: Medite II as manufactured by Roseburg, Dillard, OR,

BOLTS, NUTS, WASHERS, LAGS, PINS & SCREWS: Size & type to suit application; mill finish

areas. Nails used in finish carpentry work will be finish type, nail set & filled. Screws shall be

ADHESIVE: Type recommended by fabricator to suit application.

HARDWARE: Provide full extension drawer glides and European-style self-closing hinges all with soft-close feature as manufactured by Blum with 'Bluemotion', or equivalent. Provide handles as per 'Hafele' stainless steel cabinet knob in matt finish.

CABINET DOOR BUMPERS: 1/4-inch dia., polyurethane, clear, self-adhering. 'Hafele' 356.25.400, or equal.

where concealed, polished, flat head at semi-concealed & where exposed to view.

FABRICATION: Shop-fabricate, finish & fit all millwork in accordance w/ AWI Quality Standards for the specified grade.

PIGMENTED LACQUER: Pigmented lacquer o/ MDF or hardwood. Fabricate architectural woodwork in conformance with Premium Grade Standards in accordance with applicable

COUNTERTOPS: Fabricated countertops, with back- and side- splashes where shown, & scribe for fitting to wall. When necessary to cut and fit on site, provide materials with ample allowance for cutting.

CLEAR FINISH: Transparent stain and finish 'Ciranova' *Hardwaxoil Magic* finish.

Provide trim for scribing and site cutting. Apply in full uninterrupted sheets consistent with manufactured sizes. Fit corners and joints hairline; secure with blind attachment. Slightly bevel arrises. Locate counter butt joints

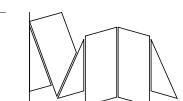
minimum 2 feet from sink cut-outs. Provide cutouts for appliances, outlet boxes, fixtures and fittings. Verify locations of cutouts from on-site dimensions. Seal all surfaces including cut edges.

INSTALLATION: Install in accordance w/ AWI Quality Standards, Section 1700 - Installation of Woodwork, Custom Grade. In the absence of controlling standards, work will be installed in accordance w/ manufacturer's instructions. Set the work accurately in location, alignment & elevation, plumb, level, straight, square, true to line & free of distortion or defects & securely anchored; maintain dimensional tolerances measured from established lines & levels. Finish surfaces shall provide a uniform appearance & be free from visual imperfections when exposed to view. Allowable tolerances: Maximum permissible deviation from true alignment,

1/8-inch. 06 20 13 Exterior Finish Carpentry

The work includes all materials, labor, equipment & services necessary to furnish & install exterior wood siding as shown on the drawings and specified.

SUBMITTALS: Product data, verification samples, manufacturer's certificates and maintenance instructions that include recommendations for periodic treatment of sealer.



130 N Central Avenue No.300 Phoenix, Arizona 85004

602 251 3800 sma project no.

16-101

sma project name POWDERCAT

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orr powdercat th development, llc 1180 sunrise valley drive, ste 300 reston, va 20191 t (703) 289-2125

talisman civil consultants 5217 south state st, ste 200 murray, ut 84107 t (801) 743-1308

STRUCTURAL rudow + berry, inc. 4032 n miller rd. a100 scottsdale, az 85251 (480) 946-8171 MECH/PLBG/ELEC

peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020 (602) 388-1732

LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295

No. 7829867-0301 ្ញុំ June 1, 2017 ្ជំ

PLAN REVIEW ACCEPTANCE FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW ■ BUILDING STRUCTURAL MECHANICAL PLUMBING XELECTRICAL XENERGY

□ ACCESSIBILITY □ FIRE PLAN REVIEW ACCEPTANCE OF DOCUMEN DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL STATE, OR LOCAL REGULATIONS. Y: MEM WEST COAST CODE CONSULTANTS, IN

NOOD SIDING:	
Manufacturer: 'Kebony Norge AS'	
Supplier:Pine River Group, 812 S. Riverside Dr., St. Clair, MI 48079, 810-329-4789.	Cont
Joanna Olmstead.	

ntact: Siding: Terrace Board Smooth #K2102SYP 22mm x 142mm (± 7/8" x 5 9/16"). Note: provide wider widths as required to avoid awkwardly sized (e.g. - less than 3" in width) cut

pieces @ corners, intersections, tapers, etc. Profile: Grooved, typ at building cladding; Ungrooved where front & back face are exposed. Trim / Fence Boards: Smooth Rectangular Cladding 21mm x 148mm Species: Clear Southern Yellow Pine

Lengths: Lengths as required - ref. drawings Finish: Clear sealed

Underlayment: see section 07 25

MATERIALS:

Flame Spread: 65 Smoke Developed: 300 / ASTM E84 "Class B" / (QAI report no. RJ3692-1, dated Jan. 7, 2015)

FASTENERS: For wood cladding: stainless steel trim head screws. For furring strips: stainless steel countersunk wood screws or sms as required, or self-drilling/self-tapping screws at stl

SEALER: Deep penetrating waterproof sealer with transparent oxides for UV protection; mildew & algae resistant. Basis of design is 'Armstrong-Clark' Transparent Wood Stain, Natural Tone. INSTALLATION:

Do not begin installation until substrates have been properly prepared, and weather barrier system has been installed. If substrate preparation and weather barrier system installation is the responsibility of another installer, notify Architect of unsatisfactory conditions before

Install sealed wood cladding as an insulated, ventilated rain-screen system by attaching over continuous pressure-treated 2x wood furring strips. Paint all visible furring strips flat black prior to installing cladding. Install boards with the pith side toward the building (hidden from view). At terrace walls, attach furring to terrace wall posts with self-drilling, self-tapping sstl screws. Wood furring strips are to be installed horizontally between stl posts. Provide EPDM shims between post and furring strips as required to maintain a straight and plumb installation. At foundation walls, attach furring o/ concrete w/ isolation material (Grade D building paper, or equivalent) using 'Tap-con' fasteners or equivalent. Secure siding to furring strips in pre-drilled holes, (2) fasteners per board, per support - evenly and consistently space fasteners. Fasteners shall be of sufficient length to penetrate furring strips not less than 1-1/4". Maintain $\pm 1/2$ " clear airspace between adjacent boards for ventilation purposes. Maintain 1/4" clear airspace between ends. Ends exposed due to field cuts shall be sealed.

Tolerances: Surfaces: 1/8" in 10'-0" in all directions. Lippage: 1/8" max Maximum variation of joint width: 1/16".

Clean using mild detergents or special deck cleaners. Use fresh water and a brush; do not use a pressure washer, which will damage the surface.

Protect installed products until completion of Project. Touch-up, repair or replace damaged

07	THERMAL AND MOISTURE
	PROTECTION
07 13	Sheet Waterproofing
BELOW GRADE WATERPROOFING	'WR MEADOWS' <i>MEL-ROL LM</i> w/ 10MIL <i>PERMINATOR</i> AND <i>MEL-DRAIN</i> . EXTEND TO TOP OF FOOTING. INSTALL WITH MFR RECOMMENDED SEALANTS AND ACCESSORIES FOR A COMPLETE AND WATERTIGHT INSTALLATION. PROVIDE CONTINUOUS PERFORATED FOUNDATION DRAIN PIPE WRAPPED IN GEOTEXTILE FILTER FABRIC (see Section 22 - Plumbing); 3/4" CLEAN STONE OR EQUIVALENT GRAVEL BED - REF. CIVIL FOR PIPE TERMINATION.
07 20	Insulation
THERMAL INSULATION	'JOHNS MANVILLE' FORMALDEHYDE FREE KRAFT FACED FIBERGLASS BATT INSULATION. FLAME SPREAD < 25; SMOKE DEVELOPED < 50. INSULATION SHALL COMPLETELY FILL STUD CAVITY. PROVIDE MIN. R-38 (13" THK) AT ROOF/CEILING & EXPOSED FLOOR/CEILINGS; R-21 (5.5" THK) AT EXTERIOR WALLS.
ACOUSTIC INSULATION	'JOHNS MANVILLE' <i>UNFACED FORMALDEHYDE FREE</i> FIBERGLASS BATT INSULATION. FLAME SPREAD < 25; SMOKE DEVELOPED <50. FILL STUD (3.5" & 5.5") AND FLOOR CAVITIES (13") COMPLETELY.
MINERAL WOOL INSULATION	'OWENS CORNING' <i>THERMAFIBER RAINBARRIER HD</i> MINERAL WOOL; THICKNESS AS PER WALL TYPE (1.5" MIN. (R-6.5), 3" MAX. (R-12.9)).
EXPANDING FOAM INSULATION	'DOW' GREAT STUFF Window & Door Insulating Foam Sealant; APPLY AT ALL WINDOW/DOOR/FRAMING GAPS AS PER MANUFACTURER REQ'S.
RIGID INSULATION - ABOVE ROOF	'DOW' <i>STYROFOAM XPS RIGID INSULATION</i> , 2-1/2" THICK, (R-12.5).
RIGID INSULATION - BELOW GRADE o/ EXPOSED CONCRETE FOUNDATION WALLS	'T-CLEAR' <i>WALLGUARD</i> 3" THK (R-15) CONCRETE PANEL-FACED INSULATED PERIMETER WALL PANEL.
RIGID INSULATION - BELOW GRADE - CONCEALED FROM VIEW	'DOW' <i>STYROFOAM XPS RIGID INSULATION</i> , 3" THICK, R-15.
SPRAY-APPLIED POLYURETHANE FOAM INSULATION TO FILL CAVITY, OR DEPTH AS INDICATED	'JOHNS-MANVILLE' <i>CORBOND III</i> , THK. AS SPECIFIED (R-6.25 PER INCH).
07 24	DEFS

SOFFITS AND 'STO' StoQuick Gold Soffit, DIRECT-APPLIED EXTERIOR WEATHER-PROTECTED WALL FINISH SYSTEM o/ WEATHER RESISTANT BARRIER o/ **LOCATIONS** 1/2" EXTERIOR RATED GYPSUM SHEATHING. PROVIDE w/ FLASHINGS, WEEP SCREEDS, SQUARE-CORNER REINFORCING. AND TERMINATIONS AS REQUIRED. BASE COAT: Manufacturer's trowel-applied water resistant base and bond coat; provide fiberglass tape at all joints in substrates, and at changes in plane, and finish base coat to an even, smooth finish. TOP COAT: Manufacturer's top coat finish with integral color to match interior ceilings FINISH: Manufacturer's smooth texture 'Limestone', or equivalent smooth trowel finish, with no perceptible aggregate. Install gypsum sheathing as per ASTM C1177, and joints compliant with ASTM D1784 cell classification 13244C.

07 25 Weather Barriers

SYSTEM DESCRIPTION:

Supply labor, materials and equipment for a fully adhered water-resistive vapor permeable air barrier membrane system behind all exterior wall cladding. Complete Work as shown on the Drawings and specified herein to bridge gaps and seal the water-resistive vapor permeable air barrier membrane against air leakage and water intrusion including, without limitation, the following locations:

Connections of the walls to the roof membrane Connections of the walls to the foundations Seismic and expansion joints Openings and penetrations of window and door frames, store front, curtain wall, mechanical louvers Piping, conduit, duct and similar penetrations Masonry ties, screws, bolts and similar penetrations Any and all other air leakage pathways in the building envelope

Install primary water-resistive vapor permeable air barrier, flashing, lap seam tapes, sill pan and ventilation strip accessories.

MATERIALS:

Note - for weather barrier at metal roofing, refer to section 07 42.

MANUFACTURER: VaproShield LLC., Gig Harbor, WA, 866-731-7663, info@VaproShield.com, www.vaproshield.com. WATER-RESISTIVE VAPOR PERMEABLE AIR BARRIER MATERIALS: Primary self-adhered air barrier sheet membrane shall be RevealShield SA Self-Adhered Water-Resistive Vapor Permeable Air Barrier Sheet, Black in color. WATER-RESISTIVE VAPOR PERMEABLE TRANSITION AND FLASHING MEMBRANE: Self-adhered air barrier transition and flashing membrane shall be RevealFlashing SA FLASHING FOR ROUGH OPENINGS: Window and door flashing shall be VaproLiqui-Flash, a liquid-applied vapor permeable air barrier flashing material. SEALANT (for penetrations): Dow 758 or VaproLiqui-Flash SMALL PENETRATION FLASHING: 'Quickflash Products, Las Vegas, NV, (702) 614-6100, QFinfo@guickflashproducts.com, www.guickflashproducts.com. Install prior to installation of weather resistant barrier. EXTERIOR WOOD FURRING: At all exposed furring on horizontal surfaces provide 'Grace' *Vycor Deck Protector* on all exposed sides/ends.

INSTALLATION:

GENERAL: Verify that surfaces and conditions are ready. Notify Architect of any discrepancies. All surfaces must be dry, sound, clean and free of oil, grease, dirt, excess mortar or other contaminants. Fill voids and gaps in substrate greater than 1/4 inch in width to provide an even surface. Mechanical fasteners used to secure sheathing boards shall be set flush with sheathing and fastened into solid backing.

NOTE - GC to engage weather barrier manufacturer's technical representative to review and certify weather barrier installation prior to commencing cladding installation. Provide report(s) from manufacturer concerning all areas observed, deficiencies noted, and actions taken.

COORDINATION: Self-adhered vapor permeable air barrier sheets may be installed vertically or horizontally over the outside face of exterior sheathing board or substrate. Complete detail work around corners, wall openings, building transitions and penetrations prior to field applications. Install self-adhered vapor permeable air barrier sheet over the outside face of exterior sheathing board or substrate, measure and pre-cut into manageable sized sheets to suit the application conditions. Install self-adhered vapor permeable air barrier sheet complete and continuous to substrate in a sequential overlapping weatherboard method starting at bottom or base of wall and working up. Stagger all end lap seams. Roll installed membrane with roller to ensure positive contact and adhesion with substrate. No wrinkles, bubbles, or other surface defect to remain in weather barrier. Provide primer o/ substrate as required or recommended by manufacturer's representative to ensure proper adhesion.

BUILDING TRANSITIONS: Tie-in to structural beams, columns, floor slabs and intermittent floors, parapet curbs, foundation walls, roofing systems and at the interface of dissimilar materials with self-adhering air barrier transition and flashing membrane. Align and position self-adhered air barrier transition and flashing membrane, remove protective film and press firmly into place. Provide minimum 3 inch lap onto substrates. Ensure minimum 3 inch overlap at side and end laps of membrane. Roll membrane and lap seams with roller to ensure positive contact and adhesion. At inside and outside corners provide minimum 12 inch off-set of vertical seams.

VERTICAL APPLICATIONS: For vertical applications, align sheets with an 'inside' or 'outside' corner to avoid wrinkles and mis-alignment of subsequent applications. Measure and pre-cut into manageable sized self-adhered sheets to suit the application conditions. Hang self-adhered sheets over wall and extend down to lowest point of wall. Allow for excess material at bottom of wall to accommodate tie-ins and connections to adjacent surfaces. Align and position self-adhered membrane, remove release film and press firmly into place. Provide minimum 3 inch overlap at side and end laps of membrane. Roll membrane and lap seams with roller to ensure contact and adhesion. Continue to remove release film and apply pressure to ensure positive contact onto wall substrate. Install subsequent sheets of self-adhered vapor permeable air barrier sheets in overlapping weatherboard format. Ensure sheets lay smooth and flat to surfaces. Roll membrane and lap seams with roller to ensure contact and adhesion.

HORIZONTAL APPLICATIONS: For horizontal applications, align sheets and begin installation of water-resistive weather barrier at bottom or lowest point of wall. To avoid wrinkles and mis-alignment of subsequent applications it is recommended to pre-mark or "snap" a level line to work from. Measure and pre-cut into manageable sized sheets to suit the application conditions. Allow for excess material at bottom of wall to accommodate tie-ins and connections to adjacent surfaces. Align and position self-adhered membrane, remove release film and press firmly into place. Provide minimum 3 inch overlap at all side and end laps of membrane. Roll membrane and lap seams with roller to ensure contact and adhesion. Continue to remove release film and apply pressure to ensure positive contact onto wall substrate. Install subsequent sheets of self-adhered vapor permeable air barrier sheets in overlapping weatherboard format. Ensure sheets lay smooth and flat to surfaces. Roll membrane and lap seams with roller to ensure contact and adhesion.

07 42 Metal Wall Panels and Roofing

INSTALLATION:

Roof panels, flashing, and sheet metal fabrications to comply with design and installation standards of applicable details as per SMACNA and the NRCA. Refer to drawings for details extraordinary requirements may be identified due to extreme climate and/or performance conditions.

METAL WALL PANELS 'CORTEN' STEEL PANELS 4-WAY FLAT SEAMED: 'WESTERN STATES' A606 STEEL. FABRICATE TO DIMENSIONS AND CONFIGURATIONS AS SHOWN IN DRAWINGS. WALL PANELS TO BE 4-WAY FLAT SEAM PANEL w/ CONCEALED SSTL CLIPS & FASTENERS. PROVIDE w/ FLASHINGS AND TRIMS FOR A COMPLETE AND WEATHERTIGHT INSTALLATION - REF 07 25 FOR WEATHER BARRIER REQ'S; REF 07 20 FOR INSULATION REQ'S - PROVIDE MINERAL WOOL AS SCHEDULED. FIRECODE, AS REQ'D), OR AS PER STRUCT. STANDING SEAM METAL ROOF STANDING SEAM METAL ROOFING w/ ONE-PIECE

CONCEALED SSTL CLIPS, FASTENERS, AND CONTINUOUSLY SEALED SEAMS: 'WESTERN STATES' SS675 STANDING SEAM 16"W A606 STEEL PANEL w/ ALL ACCESSORIES & MATCHING FASCIA, RIDGE, FLASHINGS, AND TRIMS FOR A COMPLETE AND WEATHERTIGHT INSTALLATION w/ 20-YEAR NO DOLLAR LIMIT WARRANTY.

BREATHABLE UNDERLAYMENT 'BONAR' *ENKAMAT ASV 7010* SELF-ADHERING POLYMER 'GRACE' VYCOR ULTRA AT ROOF ONLY (REFER TO MODIFIED BITUMINOUS SHEET SECTION 07 25 FOR WALL PANEL CONDITIONS)

SNOW GUARDS 'ALPINE' ASG4025, POWDER COATED (COLOR TO BE SELECTED BY ARCHITECT) 07 60 Flashing and Sheet Metal

MATERIALS & COMPONENTS: SHEET STOCK: Hot-rolled; ASTM A653 Grade B, structural quality; minimum 22-gage.

Concealed flashings and cleats stainless steel; exposed flashings in finish to match metal wall panels, unless noted otherwise. FASTENERS: Concealed hook strip or clip type; of same material as flashing; of sufficient strength to perform their intended function; capable of supporting system & superimposed

design loads & of allowing adjustment prior to being permanently fastened in place; type recommended by system manufacturer to suit location & application. ANCHORAGE DEVICES: Cleats, type & gage same as sheets being anchored, unless noted otherwise; 2" wide, punched for 2" anchor spacing; anchors of type recommended by fabricator for installation conditions & loads.

SOLDER & FLUX: ASTM B32; type suitable for metal being soldered. PLASTIC CEMENT: FS SS-C-I53, type I, asbestos free; compatible w/ roofing membrane.

FABRICATION:

Fabricate flashing in accordance w/ roofing manufacturer's recommendations, NRCA recommendations, & applicable SMACNA detail. Form each section square, true & accurate to dimensions, free from distortion (wave, warp or buckle) & other defects detracting from appearance or detrimental to performance. Hem exposed edges 1/2" on the underside. Unless shown otherwise in the drawings, form exposed flashing w/ a 45 degree projection, minimum 3/8" long as a drip edge. Form flashing at the end of a run in to a three-dimensional configuration to divert water to the outside of the system. Form all seams as soldered lap seams. Solder all joints & connections, except expansion joints.

INSTALLATION: Perform the work in accordance w/ roofing manufacturer's recommendations & installation instructions, supplemented by NRCA Roofing & Waterproofing Manual, & SMACNA Architectural Sheet Metal Manual. Comply w/ manufacturer's product catalog & specifications. Erect plumb, level & in proper plane without bulges, warps, buckles, waves, fastening stresses, or distortion; allow for expansion & contraction. Cope or flange intersections to fit accurately & solder together to form rigid inside & outside corners. Burn lead joints. Form, fabricate & install all work to perform satisfactorily, to withstand thermal shock & vibration, all conditions of weather, & to prevent penetration of dust, water & weather.

07 76 Roof Pavers

PEDESTAL SYSTEM w/ WOOD TILES: 'BISON' VERSADJUST w/STANDARD 2'x2' x 1.75" THK IPE WOOD TILES - SEMI CUSTOM (MODIFY FOR THERMAL TRANSFER PER SNOWMELT SYSTEM), SMOOTH SURFACE, RUNNING BOND PATTERN; PROVIDE ALL REQUIRED MFR ACCESSORIES, INCLUDING FLOATING INSULATION BASE, SLOPE ADJUSTMENT PLATE, ETC. FOR A COMPLETE INSTALLATION.

SNOWMELT HEATING SYSTEM: 'THERMA-HEXX' THERMAPAVER HYDRONIC SNOWMELT o/ 1.5" EPS RIGID FOAM INSULATION; NESTED BETWEEN U/S PAVERS AND TOP OF PEDESTALS - REF MECHANICAL FOR ADDITIONAL INFORMATION.

ROOFING ASSEMBLY: 'HYDROTECH' *ULTIMATE ASSEMBLY* w/ MIN. 6" THK (R-30) TAPERED INSULATION - 1/4" PER FOOT SLOPE 'DOW' PLAZAMATE XPS INSULATION 2.2PCF DENSITY, MIN. 100 PSI COMPRESSIVE STRENGTH, w/ RAIN-CHANNELS ALL 4 BOTTOM EDGES.

	, ,
08	DOORS AND WINDOWS
08 14	Wood Doors and Frames

Refer to plans for door designations - refer to door schedule for door types and sizes Contractor to submit full door and hardware schedule for each unit type; indicate door numbering, frame type and size(s), door type and size(s), and hardware for Architect review prior to procurement and fabrication.

CUSTOM GARAGE DOORS:

Custom metal-clad exterior rated wood sectional garage door with track, hardware, and accessories to enable flush condition with exterior wall finish - ref details. Furnish complete with all components for a fully operational and weathertight installation. Sectional panel construction consists of rigid foam insulation within stile and rail frame (rabbeted top and bottom edges), exterior grade plywood sheathing, and fixed transom panel to match door panel. Metal cladding to be site-applied to match and align with adjacent wall cladding. Provide remote keypad for exterior access, motorized operator, overhead light, remote control(s), and safety photo-eye interlocks for emergency stop and reverse. Basis of design is 'Designer Doors', contact Lauri Wilson (715) 426-8932, lwilson@designerdoors.com.

EXTERIOR SOLID CORE WOOD DOORS:

Custom wood swing entry door with matching sidelite panel, transom, and hardwood jambs supplied complete with all weatherstripping, trim, hardware, threshold, etc. as required for a complete and weathertight installation. Exterior rated materials and construction with custom wood cladding - refer to drawings for additional detailed requirements. Basis of design is 'Designer Doors', contact Lauri Wilson (715) 426-8932, lwilson@designerdoors.com.

SOLID CORE INTERIOR DOORS: AWI Section 500 and 1300 for the specified grade, Particleboard cores, w/ binder containing no urea-formaldehyde resin, 5 or 7 plies, stiles and rails bonded to core. Factory-finish (and pre-machine for hardware) - all six (6) sides. Basis of design is Trustile model TM13000 w/ 1/4" kerf cut reveals and 1" stiles (Series: Trustile Reserve - engineered panel w/ composite core and LVL stiles and rails, and cope & stick joinery) for wood veneer doors & standard flush overlay with paint grade finish for standard swing doors, with 'Single Rabbeted Jamb w/Kerf' 1.25"/0.75" thk.

POCKET DOOR FRAMES: Custom fabricated welded steel tube frames w/ LVL headers and wood nailers. Local fabrication, or 'Christner Woodworks' 5500-325 Series Heavy Duty frame; www.heavydutypocketdoorframes.com.

FINISHES:

Refer to door schedule for finish designation at each door. OPAQUE FINISH: Custom Grade, flush - satin lacquer painted finish. WOOD VENEER FINISH: White Oak, quarter-sawn with slip-matched veneers, and transparent factory-applied finish to match project reference sample.

FABRICATION:

Fabricate doors in conformance with AWI Quality Standards and applicable label requirements. Factory-finish doors as selected. Fabrication tolerances as follows:

Size: $\pm - 1/16$ " in any direction.

Squareness: Diagonal measurement difference, +/- 1/8" max. Factory Hardware: Hinge & lock cutouts, + 1/32", -0" Telegraphing: Defective when face of door varies more than 1/100" Warp: 1/4" maximum from door plane for 3'-6" x 7'-0" and smaller doors or in similarly sized sections of larger doors; measured in relation to the plane of the door and not to the frame.

INSTALLATION:

Install doors plumb, square, and within specified tolerances, within the prepared opening for uniform edge spacing, in conformance with manufacturer's recommendations and installation instructions. Install hardware to provide free swinging or sliding doors that operate easily and latch securely without rattling. Coordinate installation of field installed glass. Install specified trim molding. Installation tolerances as follows:

Jamb and Head clearance: 1/8" Bottom clearance: 5/8"

Diagonal distortion: +1/16", 0"

08 50

Aluminum Clad Wood Windows

QUALITY ASSURANCE: Windows shall conform to the "Voluntary Specifications for Aluminum, Vinyl (PVC) and Wood Windows and Glass Doors" as published by ANSI/AAMA/NWWDA 101/I.S.2, unless specified products achieve more stringent performance.

- 1. Fixed window rating: C-50
- 2. Casement window rating: C-70

Air infiltration per ASTM E 283 - when tested at 1.57 psf (25 mph) air leakage shall be as 1. Fixed Windows: 0.30 cfm/ft2 of frame or less.

2. Casement Windows: 0.50 cfm/ft2 of frame or less.

Water infiltration per ASTM E 547 - No water penetration through window when tested under static pressure of 7.5 psf (42 mph) after 4 cycles of 5 minutes each, with water being applied at a rate of 5 gallons per hour per square foot.

LOADING: Uniform load deflection test per ASTM E 330 procedure A with design wind pressure of 30 psf minimum (unless greater per ASCE-7 or applicable building code - see GSN); areas of greatest deflection not to exceed L/175. Uniform load structural test per ASTM E 330 at static pressure of 1.5 times design wind pressure (min.) with permanent deformation of any member not exceeding 0.2% of member span. Contractor shall provide engineered drawings indicating attachment requirements, steel stiffeners, or additional reinforcing as required to withstand wind loading, and for a complete and functional installation, whether all required components are specified/detailed, or not.

WARRANTY: Provide minimum ten (10) year watertight installation warranty.

MATERIALS AND COMPONENTS: 'Windsor' *Pinnacle Contemporary Stop* series aluminum-clad wood window w/ solid wood core, and heavy vinyl integral nailing fin at head, jambs, and sill. All sash material to be kiln-dried, water-repellant, preservative treated in accordance with WDMA I.S. 4-07'A. Dual-glazed insulated units w/ high-altitude breather tubes. Provide manufacturer's optional black fiberglass 'excellent visibility' insect screens in charcoal aluminum frames. Install manufacturer's standard hardware - color to be selected.

SUBMITTALS: Obtain field measurements of framed openings prior to generating shop drawings. Produce detailed shop drawings for this project's specific conditions to fully describe all required fasteners, clips, reinforcing/steel stiffeners, accessories, and weatherstripping as req'd for a complete, weathertight, and warrantable installation. Do not commence fabrication without approved shop drawings and field verified dimensions.

INSTALLATION:

Install plumb, square, and within industry tolerances, within the prepared opening for uniform edge spacing, in conformance with manufacturer's recommendations and installation instructions. Install hardware to provide free swinging that operate easily and latch securely without rattling. Coordinate installation of field installed glass. Install specified trim molding. Provide structural and non-structural sealants as manufactured by Pecora or Dow suitable for specific application. Color to be determined by Architect upon preparation of mockup. Provide all flashing components and conditions in materials and configurations as detailed. Provide field testing as specified.

WINDOWS 'WINDSOR' PINNACLE. STYLE: CONTEMPORARY STOP. EXTERIOR COLOR: STANDARD COLOR TO BE

SELECTED BY ARCHITECT. INTERIOR: PAINT GRADE, PAINTED TO MATCH WALLS IN LOW-SHEEN FINISH. GLAZING: LoE 366 INSULATED GLASS (ENERGY STAR 2015 & IECC COMPLIANT) - SEE WINDOW SCHEDULE FOR ADDITIONAL INFORMATION.

PROVIDE SCREENS AT CASEMENT WINDOWS: PROVIDE WITH MFR STANDARD HARDWARE - COLOR TO BE SELECTED BY ARCHITECT.

REF. SCHEDULE FOR ADDITIONAL INFORMATION. WINDOW SYSTEM SWING DOORS 'WINDSOR' PINNACLE ENTRANCE DOORS. STYLE: CONTEMPORARY. EXTERIOR COLOR: STANDARD

COLOR TO BE SELECTED BY ARCHITECT. INTERIOR: PAINT GRADE, PAINTED TO MATCH WALLS IN LOW-SHEEN FINISH. GLAZING: LoE 366 INSULATED GLASS (ENERGY STAR 2015 & IECC COMPLIANT) - SEE WINDOW SCHEDULE FOR ADDITIONAL INFORMATION.

MFR STANDARD 5" STILES AND TOP RAIL w/ 1-3/4" SASH PANELS AND GLAV INSTALLATION CLIPS, STEEL STIFFENERS. AND MULLION COVERS AS REQ'D - REF DETAILS.

REF. SCHEDULE FOR ADDITIONAL INFORMATION WINDOW SYSTEM SLIDING 'WINDSOR' PINNACLE SLIDING PATIO DOORS. STYLE: CONTEMPORARY STOP. EXTERIOR COLOR: STANDARD COLOR TO BE SELECTED BY ARCHITECT. INTERIOR: PAINT GRADE, PAINTED TO MATCH WALLS IN LOW-SHEEN FINISH. GLAZING: LoE 366 INSULATED GLASS (ENERGY STAR 2015 & IECC COMPLIANT) - SEE WINDOW SCHEDULE FOR ADDITIONAL INFORMATION.

> MFR STANDARD 3"W LVL STILES AND 5" BOTTOM RAIL w/ 1-3/4" SASH PANELS, TANDEM ROLLERS w/ ADJUSTABLE, BALL-BEARING WHEELS, STEEL STIFFENERS, AND MULLION COVERS TO COORDINATE WITH ADJACENT FIXED FRAMES AS REQ'D - REF DETAILS.

REF. SCHEDULE FOR ADDITIONAL INFORMATION

08 70 Hardware REFERENCES: Comply with applicable requirements of the following standards. Where these standards conflict with other specific requirements, the most restrictive shall govern.

- 1. Builders Hardware Manufacturing Association (BHMA)
- 2. ANSI-A156,xx- Various Performance Standards for Finish Hardware 3. DHI /ANSI A115.IG – Installation Guide for Doors and Hardware 4. WDMA Industry Standard I.S.-1A-04, Industry Standard for Architectural wood flush doors.

TEMPLATES: Submit templates and "reviewed hardware schedule" to all door and frame suppliers, and others as applicable to enable proper and accurate sizing and locations of cutouts and reinforcing.

SAMPLES: Provide samples of each hardware component and color/finish.

COORDINATION: Engage certified Architectural Hardware Consultant for purposes of scheduling hardware and coordinating with associated trades; review project for extent of finish hardware required to complete the Work. Notify Architect in writing if any conflict in specified products and conditions is found.

INSTALLATION AND FINAL ADJUSTMENT: Install all hardware in accordance with manufacturer's requirements and industry recommendations. Adjust all door closers for proper operation, verify levers are free from binding, ensure latch bolts/deadbolts engage strike, and ensure all hardware functions smoothly.

Glazing

Refer to Door Schedule for specific hardware group requirements.

	NOTE: All glass to meet quality requirements of GANA for all glass types to be provided. Ensure all glass is free of distortion, roller marks, or other visual defects.	
WIND	OW GLAZING	BY WINDOW MFR - REFER TO WINDOW SCHEDULE FOR DETAILED PERFORMANCE REQUIREMENTS.
MIRRO	ORS	1/4" PLATE GLASS MIRRORS w/ POLISHED EDGES & BLIND ATTACHMENT. SIZE PER DRAWINGS. LOCAL FABRICATION.
SHOW	/ER GLASS	SWING DOORS: FRAMELESS GLASS SHOWER ENCLOSURE: 'CRL' GENEVA #GEN074 w/ #BM6X6 (POLISHED CHROME)

w/ 1/2" CLEAR TEMPERED GLASS 'OLDCASTLE' LOW-IRON w/ 'HYDROSHIELD'. PROVIDE WIPES AND SEALS AS REQ'D FOR WATERTIGHT INSTALLATION. SLIDING DOORS: FRAMELESS BI-PARTING GLASS SHOWER DOOR: 'CRL HYDROSLIDE SLIDING SHOWER DOOR SYSTEM

(POLISHED CHROME) w/ 1/2" CLEAR TEMPERED GLASS 'OLDCASTLE' LOW-IRON w/ 'HYDROSHIELD'. PROVIDE WIPES AND SEALS AS REQ'D FOR WATERTIGHT INSTALLATION. PRE-ENGINEERED CANTILEVERED GLASS GUARDRAIL

GLASS GUARDRAIL

08 80

SYSTEM: 'CRL' #AFWC2 IN BRUSHED SSTL w/ 1/2" CLEAR TEMPERED GLASS PANELS 'OLDCASTLE' LOW-IRON w/ 'HYDROSHIELD'. INSTALLATION PER MFR REQUIREMENTS FOR SPACING AND GLASS FABRICATION - REF DETAILS FOR CUSTOM BRACKET MOUNTS.

130 N Central Avenue No.300 Phoenix. Arizona 85004 Г 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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talisman civil consultants 5217 south state st, ste 200 murray, ut 84107 t (801) 743-1308

TRUCTURAL rudow+berry, inc. 4032 n miller rd. a100 scottsdale, az 85251 (480) 946-8171

MECH/PLBG/ELEC

peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 bhoenix, az 85020 (602) 388-1732 ANDSCAPE

langvardt design group 328 W 200 S salt lake city, ut 84101 (801) 583-1295

> No. 7829867-0301 ့် June 1, 2017: 🖒

> PLAN REVIEW ACCEPTANCE COMPLIANCE WITH THE APPLICABLE TRUCTION CODES IDENTIFIED BELOW ELECTRICAL XENERGY ACCESSIBILITY FIRE PLAN REVIEW ACCEPTANCE OF DOCUMEN DES NOT AUTHORIZE CONSTRUCTION TO ROCEED IN VIOLATION OF ANY FEDERAL STATE, OR LOCAL REGULATIONS. Y: MEM WEST COAST CODE CONSULTANTS, IN

GLASS WATER CLOSET DOOR	GLASS PATCH FITTING x3 EQUALLY SPACED: 'CRL' Black Vienna 337 Series Adjustable Wall Mount Full Back Plate Hinge V1E337BL w/ 1/2" Sandblasted glass door. Provide 'Emtek' modern round knob 5059 in us19 finish; discard rosette and provide isolation gaskets for glass installation.
09	FINISHES
09 20	Gypsum Board
Provide all materials, labor, equipme	ent & services necessary to furnish & install gypsum

board, related panel products & all accessories, screwed to wood wall and ceiling framing support system, finished & ready to receive paint. Unless otherwise noted, all gypsum board edges to be finished with applicable 'L', or 'LC' square-corner metal trim. All gypsum board installation to be completed in accordance with "GA214", latest edition.

GYPSUM BOARD, ACCESSORIES, AND RELATED PRODUCTS: 'Gypsum Association'

Application and Finishing of Gypsum Board ("GA216"), latest edition.	
INTERIOR WALLS & CEILINGS, TYPICAL	GYPSUM WALLBOARD (GWB) w/ LEVEL 4 FINISH NON-TEXTURED ("SMOOTH WALL") 'USG' 5/8" THK., SHEETROCK ULTRALIGHT PANELS FIRECODE 30, TYPICAL UNLESS NOTED OTHERWISE. AT RATED WALLS, PROVIDE SHEETROCK ULTRALIGHT FIRECODE X PANELS.
	NOTE: AT BATHROOM WALLS WITH TILE, REPLACE GWB WITH 1/2" THK. CBU's - see Section 09 30.
DEMISING WALLS	'USG' AREA SEPARATION WALL SYSTEM INCLUDING 1" GYPSUM LINER PANELS, SOUND BATTS, 2" H-STUDS, 2" C-RUNNERS, ALUMINUM BREAKAWAY CLIPS, AND OTHER COMPONENTS AS DETAILED IN THE DRAWINGS. MEET UL LISTING U336. AT UNIT SIDE OF DEMISING WALLS, PROVIDE 'NATIONAL GYPSUM' GOLD BOND 5/8" SOUNDBREAK XP FIRE AND STC RATED GYPSUM WALL BOARD.
MATERIALS & ACCESSORIES	ACCESSORIES: METAL, ASTM C1047 COMPLIANT. FASTEN w/ TYPE 'W' SCREWS AS PER MFR. ADHESIVES: ASTM C557. ELASTOMERIC JOINT SEALANTS: ASTM C920. JOINT REINF. TAPE & COMPOUND: ASTM C474, C475. STEEL SCREWS: ASTM C954, C1002. STD. SPEC. FOR GYPSUM BOARD: ASTM C1396. TESTING: ASTM C22, C472, C473.
ACCESSORIES (CORNER READS E	DGE TRIM AND CONTROL IDINTS: Galvanized metal with

ACCESSORIES (CORNER BEADS, EDGE TRIM AND CONTROL JOINTS: Galvanized metal with flange; corner beads, square edge at all outside corners. See drawings/details for unique

MOLDING: Galvanized metal; type as required by conditions

JOINT TAPE: Cross-fibered paper tape.

TAPING AND TOPPING JOINT COMPOUND: ASTM C475; asbestos-free; vinyl based; for embedding tape and first, second and third fill coats.

WATER: Drinkable and free of deleterious quantities of impurities and/or contaminants. REVEALS: 'Fry Reglet' reveal moldings - refer to details.

INSTALLATION GYPSUM BOARD & PRODUCTS: GA-214, GA-216; ASTM

Install gypsum board materials in accordance with ASTM C840, GA216, and manufacturer's recommendations and installation instructions, supplemented where necessary, by ANSI A97.I. Reinforce gypsum board at edges and joints with metal accessories, tape, fill with joint compound, and sand to produce a surface that is flush and ready for final decoration. Prime surfaces in accordance with manufacturer's recommendations and installation instructions. Taped joints, fasteners, and flanges of metal reinforcement shall not be visible in the finished work. Seal around all exterior door-window assemblies with acoustical sealant.

SURFACE FLATNESS: Maximum deviation from a flat plane not to exceed 1/8" in 10 feet. LEVEL #4 Finish, non-textured, per 'Gypsum Association' Recommended Levels of Gypsum Board Finish ("GA214"); coat with drywall primer prior to the application of final finishes.

09 30

[NOTE TO GC: REFER TO 'OWNER UPGRADE PACKAGE' FOR ALTERNATE MATERIAL SPECIFICATION AS PART OF COMPREHENSIVE UPGRADE OPTION - REFER TO THIS SECTION FOR ALL ACCESSORIES AND INSTALLATION REQUIREMENTS.]

'CERAMICHE CÆSAR' MORE SERIES THROUGH-BODY PORCELAIN TILE W/ THIN-SET MORTAR ADHESIVE. REINFORCING. ANTI-FRACTURE MEMBRANE/CRACK ISOLATION. MORTAR BED. AND ACCESSORIES. REFER TO DETAILS FOR INSTALLATION METHOD AT EACH APPLICATION.

COMPONENTS: Basis of design 'MAPEI', u.n.o.:

WATERPROOFING & CRACK-ISOLATION MEMBRANE: 'Mapelastic AquaDefense' w/reinforcing fabric accessories, MAPEI

REINFORCING MESH (Mortar bed reinf.): 2"x2"x16/16 GA. galv. wire mesh THIN SETTING BED/BOND COAT: Latex-portland cement mortar w/ latex additive in compliance w/ ANSI A118.4; 'Kerabond w/ Keralastic Polymer Modifier'; MAPEI. MORTAR SETTING BED: Full cement mortar consisting of fully cured mortar bed using standard cementitious materials w/ latex additive; ANSI A108.1; 'Keralastic Polymer Modifier';

GROUT: Latex-portland cement w/ integral sealer, 'Ultracare Plus SB'; ANSI A118.6; MAPEI; color to be selected by Architect.

WATER: clean, fresh & free of deleterious substances.

ANTI-FRACTURE MEMBRANE (SHOWERS): 'Noble Company' NobleSeal TS w/ sealant SEALER: 'Keraseal'; MAPEI.

BACKERBOARD: 'Durock' Cement Board; USG

TRANSITION STRIP: 'Schluter' Scheine series, satin stainless steel, in dimension required. Provide between all transitions to dissimilar floor material at centerline of doors, or aligned to building components as indicated on floor finish plans.

SHOWER PAN LINER: 'Noble Company' Chloraloy CPE shower pan liner w/ corresponding compatible sealant.

INSTALLATION:

Install using first class workmanship, following mfr's recommendations & instructions, supplemented by the 'TCNA Handbook for Ceramic Tile Installation', with anti-fracture membrane & grouting as per ANSI A108.10 & expansion joints per TCNA EJ171. Extend tile work into recesses & under equipment & fixtures to form a complete covering without interruptions, except as otherwise shown. Terminate work neatly at obstructions, edges & corners without disruption of pattern or joint alignments. Align all joints in both directions w/ joint width as recommended by the mfr for the specific tile, unless noted otherwise. Ensure tile joints are straight, level & plumb, uniform in width, subject to normal tolerances due to tile manufacture. Ensure joints are water tight, without voids, cracks, and/or excess grout. Where tile abuts building components which may not be level and/or plumb, install tile w/ plumb & level joints, & conceal final row of tile exhibiting variance beneath wall mounted cabinets, behind trim, & similar conveniences. Install crack control membrane for isolation from underlying cracks and cold joints in accordance w/ mfr's recommendations.

INTERIOR WALLS: Install backer board in accordance w/ mfr's instructions & thin set tile in accordance w/ TCA W244C-11

GROUTING: Grout floors & walls using latex-modified portland cement grout in accordance w/ ANSI A108.10. Color to be selected by Architect from full range of available grout manufacturers' products.

EXPANSION/ CONTROL JOINTS: TCA EJ171. Provide sanded sealant in color to match approved grout.

SEALER: Apply as per manufacturer's recommendations.

SECTION FOR ALL ACCESSORIES AND INSTALLATION REQUIREMENTS.1

09 64 Wood Plank Floors [NOTE TO GC: REFER TO 'OWNER UPGRADE PACKAGE' FOR ALTERNATE MATERIAL SPECIFICATION AS PART OF COMPREHENSIVE UPGRADE OPTION - REFER TO THIS

1. Provide all materials, labor, equipment and services necessary to complete the wood strip flooring, as shown on the drawings and/or specified herein, including wood strip flooring and base, plywood subflooring (where noted), accessories, sleepers (where noted), and field

2. SUBMITTALS:

A. PRODUCT DATA: For flooring products.

B. SHOP DRAWINGS: Show installation details, including location and layout of each type of

C. SAMPLES: For each type of wood and accessory, with stain and finish(es) required, approximately 12 inches long and of same thickness and material indicated for the work. Include sample sets showing full range of normal color and texture variations expected. D. MOCKUP: Minimum size 48" x 48".

3. MATERIALS AND COMPONENTS

A. FLOORING: 'Mirage' Carousel; 6" wide prefinished t&g planks in random lengths. Species: White Oak, Brushed Texture, Finish: Extra Matte Sheen. Provide w/ matching square-edged stair nosing, treads and risers.

B. FINISH: Pre-finished. Matte sheen.

C. ADHESIVE & MOISTURE VAPOR BARRIER: 'Bostik' Ultra-Set SingleStep, one-part, trowel applied, tacking, moisture-cure urethane adhesive and moisture vapor retarder. D. FASTENERS: As recommended by manufacturer, but not less than that recommended by the NWFA (National Wood Flooring Association) 'Installation Guidelines'.

E. SUBFLOOR FILLER: Premixed latex cementitious type 'Ardex' K 15.

4. EXAMINATION & PREPARATION: Remove all existing floor coverings (where they occur). Examine subsurfaces to receive Work are in compliance with NWFA 'Installation Guidelines' and with manufacturers' recommendations. Report all detrimental conditions in writing to Architect. Commencement of Work will be construed as acceptance of subsurfaces. Verify subfloor is properly secured, is smooth and flat to plus or minus 1/8 inch in 10 feet, free of sealers, oil, grease, dust, paint, and foreign substances. Completely remove cutback adhesive residue or other surface contaminants by diamond grinding to open the pores of the concrete. Concrete subfloor must have surface profile of CSP 2-3 (similar to light broom finish), as defined by the ICRI (International Concrete Repair Institute, Guideline No. 03732). Burnished, slick steel-troweled slabs may require screening with a 30-grit abrasive. Broom clean substrate. Use subfloor filler to patch cracks, honeycomb, small holes, and for minor leveling. Subfloor must be dry and within moisture requirements and moisture testing as per NWFA guidelines and manufacturer recommendations.

Coordinate with other Work which affects, connects with, or will be concealed by this Work. Verify that floor mounted utilities are in proper location. Verify mechanical, electrical, and building items affecting work of this section are placed and ready to receive this work.

Install using first class workmanship, following mfr's recommendations & instructions, supplemented by the NWFA's 'Installation Guidelines'. Lay flooring symmetrical to room center line, parallel to walls in pattern as directed by the Architect. Incorporate manufacturer-recommended expansion gaps within field randomly for natural appearance. Provide divider strips at centerline of door openings and where flooring terminates with other floor areas. Provide 1/4 expansion space at walls and other interruptions. Install moldings and trim with minimum of joints and mitered corners. If recommended by the manufacturer, use tape or tensioners, and weights, to maintain a tight floor. If recommended by the

manufacturer, roll the floor with the proper roller.

Fully cover installed flooring to protect from damage before and after finishing, and during remainder of construction period. Use building paper or other suitable covering. Do not use plastic sheet or film that could cause condensation. Do not tape covering to finish flooring. 09 68

Carpet [NOTE TO GC: REFER TO 'OWNER UPGRADE PACKAGE' FOR ALTERNATE MATERIAL SPECIFICATION AS PART OF COMPREHENSIVE UPGRADE OPTION - REFER TO THIS

SECTION FOR ALL ACCESSORIES AND INSTALLATION REQUIREMENTS.]

CLASS II OR BETTER, DOC FF-1 "PILL TEST" PER NFPA 253. CLASS C OR BETTER PER

ASTM E84. **CARPET** 'GODFREY HIRST' BIG SUR PATTERNED LOOP & CUT-PILE, 100% DYED FIBER, 350Z w/ SCOTCHGARD. PROVIDE w/ 'HEALTHIER CHOICE' LOW-PROFILE PAD. COLOR TO BE SELECTED BY ARCHITECT. 09 90 Painting

1. DESCRIPTION OF THE WORK: The work includes all materials, labor, equipment and services necessary to coordinate selection of materials and workmanship with paint manufacturer's representative, inspect surfaces prior to painting, prepare surfaces, correct any and all surface deviations exceeding specified tolerances, touch up damaged shop-primed surfaces, prime.

Amershield (finish coat).

INTERIOR GYPSUM BOARD: Premium Zero VOC 100% Acrylic System. 'Dunn Edwards' Enso. INTERIOR WOOD, opaque finish: Premium Zero VOC 100% Acrylic System. 'Dunn Edwards'

INTERIOR WOOD, clear finish: 'Old Masters' 100% Pure Tung Oil. EXTERIOR WOOD, clear finish: 'Armstrong-Clark' Transparent Wood Stain, Natural Tone. INTERIOR FERROUS METAL, clear finish: 'Valspar' Val Oil Sealer EXTERIOR FERROUS METAL, opaque finish: 'PPG' Amercoat 385 (field touch-up);

3. PREPARATION AND APPLICATION: Perform the work in accordance with manufacturer's recommendations for cleaning and surface preparation and treatment supplemented by manufacturer's recommendations made during onsite inspections. Field conditions may require the use of alternative surface preparation treatment as recommended by the manufacturer to ensure adequate bonding and coverage. Exterior ferrous metals to be surface preparation 6 (SP6) and shop primed. Welds shall be primed w/ primer compatible w/ shop

Each coat will be applied at not less than the manufacturer's recommended spread rate (minimum dry film thickness), in accordance with manufacturer's recommendations and application instructions. Additional topcoats will be applied beyond that specified when undercoats or other conditions show through final topcoat, until dry film is of uniform finish, color and appearance. All materials will be brush, roll or spray-applied smoothly and evenly, free from brush marks sags, runs, crawls, voids ("holidays") and defects of any and all kinds.

10	SPECIALTIES
10 14	Signage
ADDRESS IDENTIFICATION	CUSTOM FABRICATED; BY OWNER
	TO MEET REQUIREMENTS OF 2015 IRC R319.1;
	LETTERS/NUMBERS OF 4" HEIGHT AND 0.5" STROKE IN
	CONTRASTING COLOR TO THE BACKGROUND.
10 28	Toilet Accessories
Work of this Section includes all lab	or, materials, equipment and services necessary to

complete the toilet accessories as shown on the drawings and/or specified herein. Product Data: Submit manufacturer's technical data, catalogue cuts and installation instructions for each toilet accessory.

Setting Drawings: Provide setting drawings, templates, instructions, and directions for installation of anchorage devices in other work.

Submit schedule of accessories indicating quantity and location of each item.

Deliver accessories to the site ready for use in the manufacturer's original and unopened containers and packaging, bearing labels as to type or material, manufacturer's name and brand name. Delivered materials shall be identical to approved samples.

MATERIALS

Stainless Steel: AISI Type 302/304, with polished No. 4 finish, 22 gauge minimum, unless otherwise indicated Chromium Plating: Nickel and chromium electro-deposited on base metal, ASTM B 456, Type

Mirrors: ASTM C 1503, mirror glazing quality, clear glass mirrors, nominal 1/4" thick.

FASTENING DEVICES

Exposed Fasteners: Theftproof type, chrome plated, or stainless steel; match finishes on which they are being used.

Concealed Fasteners: Galvanized (ASTM A 123) or cadmium plated. No exposed fastening devices permitted on exposed frames

SCHEDULE

TOILET PAPER HOLDER	'TAYMOR' Tenor Collection 04-32048BLK
TOWEL BAR	'TAYMOR' Tenor Collection 04-32024BLK
ROBE HOOK	'TAYMOR' Tenor Collection 04-32001BLK
HAND TOWEL BAR	'TAYMOR' Tenor Collection 04-32009BLK
MEDICINE CABINET	-NOT PROVIDED-
SHOWER ROD	'TAYMOR' adjustable curved shower rod 01-C6289

EXECUTION INSPECTION:

Examine the areas and conditions where toilet accessories are to be installed and correct any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the work.

PREPARATION:

Furnish templates and setting drawings and anchor plates required for the proper installation of the accessories at gypsum drywall and masonry partitions. Coordinate the work to assure that base plates and anchoring frames are in the proper position to secure the accessories.

Verify by measurements taken at the job site those dimensions affecting the work. Bring field dimensions which are at variance with those on the approved shop drawings to the attention of the Architect. Obtain decision regarding corrective measures before the start of fabrication of items affected. Cooperate in the coordination and scheduling of the work of this Section with the work of other Sections so as not to delay job progress.

INSTALLATION:

Install accessories at locations indicated on the drawings, or as directed by the Architect, using skilled mechanics, in a plumb, level and secure manner. Concealed anchor assemblies for gypsum drywall partitions shall be securely anchored to framing to accommodate accessories. Secure accessories in place as per the manufacturer. Unless otherwise indicated, accessories shall conform to heights from the finished floor as shown on the drawings. Where locations are not indicated, such locations shall be as directed by the Architect. Installed accessories shall operate quietly and smoothly for use intended. Doors and operating hardware shall function without binding or unnecessary friction. 10 30

FIREPLACES

Provide all materials, labor, equipment and services necessary to furnish and install fireplaces complete with anchors and related components and accessories.

PRODUCTS

A. FREESTANDING FIREPLACES (Direct Vent Factory-built Fireplace): 'Malm' Zircon 30" model steel fabricated firebox and corresponding chimney tested in accordance with UL 737 compliant. Matte Black finish, 7" connector size. Provide 24" slip section(s) as required for ceiling height. Supply with manufacturer's standard screen, and optional M16 iron grate. Provide as customized unit for direct-set to hearth (no integral base). Provide manufacturer's touch-up matte black aerosol paint for repairs, and turn over to Owner. B. CHIMNEY: 'Duravent' DuraTech 5" - 8" dual wall insulated chimney flue meeting UL 103 for type HT chimney, with black finish and square box sloped ceiling adapter with trim plate and collar for connection to fireplace stovepipe. Provide manufacturer's adjustable elbow straps, adjustable roof support 5DT-ARS, finishing collar adapter #9558, attic insulation shield, and all exterior accessories required for a complete, code-compliant, and weathertight installation. C. HEARTH Hearth extension to be provided in accordance with listing of fireplace - material to be readily distinguishable from the surrounding floor area and comply with UL 1618.

INSTALLATION:

Install unit in strict accordance with manufacturer's instructions: all components are to be listed for use with specified factory-built fireplace and chimney system, and in accordance with Building Code, and any local requirements.

NOTE: Provide interlock devices with house outside air intake fan to ensure interior of house remains neutral or positive as per IRC Section R1006.1

10 50	STORAGE SPECIALTIES
,	bor, equipment and services necessary to furnish and install and accessory furniture and equipment; coordinate with all required
utilities and provide add complete installation.	itional components, fasteners, and ancillary materials as required for a

SCHEDULE

SKI/SNOWBOARD RACK	'MONKEY BARS' storage rack system consisting of the
	following components:
	2 - Single Bar Brackets
	1 - 51" Monkey Bar
	3 - 6" Narrow Hooks
	2 - 12" Hooks
	1 - Hardware Bag
BICYCLE RACK	'TOPEAK' <i>Dual-Touch Bike Stand</i>
BOOT DRYERS	'DryX' Rustic Design - 4-pair boot and glove dryer with

EXECUTION

Examine the areas and conditions where storage products and equipment are to be installed and correct any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the work.

customized end panels.

PREPARATION:

Furnish templates and setting drawings and anchor plates required for the proper installation of the accessories at gypsum drywall and masonry partitions. Coordinate the work to assure that base plates, blocking, and/or anchoring frames are in the proper position to secure the accessories.

Verify by measurements taken at the job site those dimensions affecting the work. Bring field dimensions which are at variance with those on the approved shop drawings to the attention of the Architect. Obtain decision regarding corrective measures before the start of fabrication of items affected. Cooperate in the coordination and scheduling of the work of this Section with the work of other Sections so as not to delay job progress.

INSTALLATION:

Install itesm at locations indicated on the drawings, or as directed by the Architect, using skilled mechanics, in a plumb, level and secure manner. Secure accessories in place as per the manufacturer. Unless otherwise indicated, accessories shall conform to heights from the finished floor as shown on the drawings. Where locations are not indicated, such locations shall be as directed by the Architect. Installed accessories shall be firmly affixed to building and function properly for use intended.

EQUIPMENT

11 30	Residential Equipment
 INOTE TO GC	: REFER TO 'OWNER UPGRADE PACKAGE' FOR ALTERNATE EQUIPME

SPECIFICATION AS PART OF COMPREHENSIVE UPGRADE OPTION - REFER TO THIS SECTION FOR ALL ACCESSORIES AND INSTALLATION REQUIREMENTS.]

Provide all materials, labor, equipment and services necessary to install owner-provided built-in and/or freestanding appliances. Provide Energy Star compliant appliances where

	COOKTOP AND DOWNDRAFT	36"W INDUCTION COOKTOP, SSTL & GLASS, w/
	VENT	TELESCOPING DOWNDRAFT VENT SYSTEM (EXHAUST
		TO TERMINATE AT EXTERIOR SOFFIT).
f		
t		BASIS OF DESIGN: 'BOSCH' NIT5668UC COOKTOP w/
		DHD3614UC DOWNDRAFT VENT
	OVEN	ELECTRIC 30" WALL OVEN, STAINLESS STEEL, UNDEF
		COUNTER. PROVIDE FILLER PANELS TO MATCH
		OADINETDY AC DECLUDED

CABINETRY AS REQUIRED. BASIS OF DESIGN: 'BOSCH' HBL5351UC DISHWASHER BUILT-IN 24" UNDERCOUNTER DISHWASHER STAINLESS STEEL TUB, WITH PANEL TO MATCH CABINETRY. ENERGY STAR.

BASIS OF DESIGN: 'BOSCH' SHVM63W53N REFRIGERATOR, TYPICAL UNIT FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL.

		BASIS OF DESIGN: 'FISHER & PAYKEL' RS36A72J1
-	MICROWAVE	24"W, DRAWER-STYLE, BELOW COUNTER, SSTL.
-		BASIS OF DESIGN: 'BOSCH' HMD8451UC
	WASHER AND DRYER	STACKED FRONT-LOADING WASHER AND DRYER

ENERGY STAR.

BASIS OF DESIGN: 'GE' GFWN1600JWW & GFDN160EJWW INSTALLATION: Ensure that all wood blocking is in place and secured to framing. Provide all related accessories for a complete and functional installation including filters, lamps, switches, etc. Install appliances per manufacturer's recommendations and installation

Hot Tubs and Pools

dimensional tolerances. Leave finished surfaces unblemished. SPECIAL CONSTRUCTION

outlets to be no closer than 6 feet from inside walls of spa.

13 17

All hot tubs are by Owner. Hot tubs, spas, and therapeutic pools to be installed in accordance with IRC 2015 chapter 42, packaged spa. Provide electrical disconnect within line of sight from spa at a distance of no less than 5 feet. Provide GFCI outlets as required for heater, pump, lights, etc. at a distance of between 6 and 10 feet from inside walls of spa. All other

21	FIRE SUPPRESION
21 13	Wet Pipe Sprinkler System

SPRINKLERS CONCEALED HEAD WET PIPE SYSTEM w/FREEZE PROTECTION (HEAT TRACE) WHERE EXPOSED TO POTENTIAL FREEZING. DESIGN/ENGINEERING, PERMITTING, AND INSTALLATION BY CONTRACTOR. REFER TO REFLECTED CEILING PLANS FOR CONCEPTUAL LAYOUT. PROVIDE ADDITIONAL HEADS AS REQUIRED AND/OR WHERE REQUESTED BY ARCHITECT, AT NO ADDITIONAL COST, TO MAINTAIN SPECIAL ALIGNMENTS OR RELATIONSHIPS WHILE MAINTAINING CODE-COMPLIANT DESIGN. NOTE: CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO PERMITTING

> AND COMMENCING WORK. ALL CONCEALED HEADS (SIDEWALL AND CEILING) TO BE PRE-FINISHED WHITE, TYPICAL.

> > 'DURAVIT' STARK 3 ONE-PIECE ELONGATED #212001

Refer to Plumbing drawings for general plumbing piping and fixture requirements.

Provide full perimeter foundation drainage system, and sub-slab drainage below all occupied slab-on-grade areas of the lower level of every unit. Pipe for sub-slab and foundation drain: perforated wall pvc pipe: astm d 2665, drain to 5 feet from building, solid-wall pvc pipe: astm d 2665, drain for continuation to site storm drainage system.

PLUMBING

22 40 Plumbing Fixtures

INOTE TO GC: REFER TO 'OWNER UPGRADE PACKAGE' FOR ALTERNATE FIXTURES SPECIFICATION AS PART OF COMPREHENSIVE UPGRADE OPTION - REFER TO THIS SECTION FOR ALL ACCESSORIES AND INSTALLATION REQUIREMENTS.]

FIXTURES:

TOILET

All fixtures to be white porcelain and all faucets and controls to be polished chrome unless noted otherwise.

	SEAT AND COVER	'DURAVIT' #006339
ld	LAV - UNDERMOUNT	'LACAVA' <i>CUBE #</i> 5451
n	DRAIN	'LACAVA' #7100-12
n		
	SINGLE HOLE, SINGLE LEVER	'MOEN' <i>ALIGN #</i> 6190
	FAUCET	
	POWDER ROOM LAVATORY	'DURAVIT' <i>ARCHITEC</i> WALL MOUNT LAVATORY
		#076635
ır	TRAP	
ne		POLISHED CHROME BOTTLE TRAP
IC	POWDER ROOM FAUCET	REFER TO SINGLE HOLE, SINGLE LEVER FAUCET
l	SHOWER HEAD	'SPEAKMAN' <i>ICON #</i> S-2252-E2, 2.0 GPM.
	SHOWER ARM & FLANGE	'SPEAKMAN' <i>NEO #</i> S-2540

HAND SHOWER AND DIVERTER 'SPEAKMAN' *NEO #*VS-3010-E2, 2.0 GPM w/ 'MOEN' ALIGN #T4191 AND #3372 TRANSFER VALVE & TRIM PRESSURE BALANCING AND 'MOEN' ALIGN #T3291 VALVE TRIM w/ 'MOEN' TEMPERATURE CONTROL VALVE MOENTROL #3570 VALVE

'INFINITY DRAIN' #FFAS-25

'MOEN' *1800-SERIES* #G18180

FULL-WIDTH LINEAR DRAIN, SATIN SSTL, w/ SSTL FIXED FLANGE CHANNEL, WELDED END

STOPS, AND INTEGRAL OUTLET **CLAMP DOWN ASSEMBLY** 2" w/ DRAINAGE CHANNELS, 'INFIITY DRAIN' CD 22, OR

EQUIVALENT (REF. PLBG FOR MAT'L REQ'S) NOTE: Bottom of shower head to be not less than 80" above finished elevation of shower floor. BATHTUB - DECK MOUNT-TYPE 'DURAVIT' STARK #700336000000090 w/ #ST8938

w/ APRON AND DECK TOP (DECK) PANEL FOR NICHE (ALCOVE) CONDITION, #790112 TILE FLANGE, #790220 CABLE-DRIVEN WASTE AND OVERFLOW, #790103 ANCHORS, #790108 SUPPORT FRAME, AND #701067 ACRYLIC FRONT PANEL

TUB FILLER 'MOEN' *ALIGN* T394 TWO-HANDLE DIVERTER ROMAN TUB FAUCET w/ HAND SHOWER **FAUCET VALVE** 'MOEN' 9792 VALVE

BOWL SSTL UNDERMOUNT 31"x18" w/REAR DRAIN, SOUND DEADENING 'MOEN' #22037 3-1/2" SATIN SSTL STRAINER AND DRAIN

KITCHEN SINK 18GA SINGLE

SINGLE HOLE/LEVER, PULL-OUT 'MOEN' ALIGN #7565 SPRAY KITCHEN FAUCET 3/4 HP GARBAGE DISPOSAL 'INSINKERATOR' EVOLUTION COVER CONTROL PLUS 'INSINKERATOR' *SINKTOP SWITCH BUTTON* CONTROLLER PROVIDE w/ SINK FLANGE AND 'INSINKERATOR' #STS-00

SSTL STOPPER instructions, plumb, level, in true alignment with one another and with adjacent work. Maintain REF PLUMBING DRAWINGS HOSE BIBBS, FREEZE-PROOF WATER HEATER, ELECTRIC TANK REF PLUMBING DRAWINGS

> STYLE WHOLE-HOUSE WATER FILTER N.I.C. - BY OWNER HVAC

26 ELECTRICAL

RADIANT IN-FLOOR HYDRONIC SYSTEM - REF MECHANICAL DRAWINGS.

STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004

Г 602 251 3800 sma project no.

> sma project name POWDERCAT

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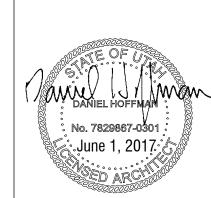
STRUCTURAL

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engineers, inc.

7201 n dreamy draw dr, ste 200 phoenix, az 85020 (602) 388-1732 ANDSCAPE langvardt design group

328 W 200 S salt lake city, ut 84101 t (801) 583-1295



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LIGHTING:

All lighting to be retrofit LED-type (LED replacement A-type, or similar lamps) except where noted. See light fixture schedule for specific manufacturers and models. Provide spare lamps for exterior wall sconces at rate of two (2) ea per exterior fixture per unit. All lamps to be 3000K color temperature with CRI of 80 or better.

RECEPTACLES, OUTLETS:

'Lutron' Designer Style Claro, Satin finish, Color: 'Snow (SW)'. Exterior outlets to be manufacturer's standard gray color. Refer to electrical drawings for all other requirements.

28	ELECTRONIC SAFETY AND
	SECURITY
28 30	Electronic Detection and Alarm
Fire Smoke CO alarm	s: Refer to code study and electrical drawings

Fire, Smoke, CO alarms: Refer to code study and electrical drawings.

31	EARTHWORK
31 00	Earthwork

Perform all excavation & backfilling in accordance w/ requirements of geotechnical report & in conformance with local/regional jurisdictional construction details. Refer to civil drawings.

TERMITE CONTROL AND PRE-EMERGENT: Apply termite control (non-toxic chemical application, or alternative methods) throughout all disturbed soil areas, underslab, and around all utility penetrations through below-grade walls. Apply pre-emergent herbicide below all slab-on-grade areas following grading activities, and prior to aggregate base installation. 31 50 **Excavation Support and Protection**

Contractor shall provide temporary bracing, shoring, guying, or other means to avoid excessive stresses and to hold soil, or structural elements in place during construction. Contractor shall be responsible for obtaining all required engineering, drawings, and permits for installing temporary or permanent soil shoring.

32	EXTERIOR IMPROVEMENTS
FENCES AND GATES	NO WORK
EXISTING SITE WALLS	NO WORK
LANDSCAPE AREA	REF. LANDSCAPE
	Provide restorative grading and re-vegetation of the area impacted by construction will be required. Planting (by others) to follow Summit Powder Mountatin Design Guidelines, Section G and Appendix A thru F.
33	UTILITIES

Refer to civil drawings for all site utility connections, materials, and installation requirements.

All vaults and in-grade boxes within sidewalk areas to be provided with traffic-rated concrete lids; consolidate multiple meters, shut-off valves, etc. under a single lid where possible - refer to civil drawings for additional requirements.

Refer to plumbing drawings for perimeter foundation drainage system. Also provide full sub-slab drainage system, see Section 22 - Plumbing. Connect all to storm drain system - ref civil for continuation.

OWNER UPGRADE PACKAGE

The documents describe base-bid conditions for finishes, feature, and equipment. Owner upgrade package is available for each individual lot. Component upgrades within this package are identified as "upgrade" for bidding purposes and may be selected by an owner upon final pricing.

Specific plan options for lots 124 and 133 are indicated where available on the respective plan sheets for these lots, and are to be priced for possible owner selection prior to construction.

The following items are available to any of the lots, and are all included as part of this comprehensive (not piecemeal) upgrade

comprehensive (not piecemeai) upgrade.	
11 30	Residential Equipment - UPGRADE
, , , ,	nent and services necessary to install owner-provided nces. Provide Energy Star compliant appliances where
COOKTOP AND DOWNDRAFT VENT	36"W INDUCTION COOKTOP, SSTL & GLASS, w/ TELESCOPING DOWNDRAFT VENT SYSTEM (EXHAUST

-		TO TERMINATE AT EXTERIOR SUFFIT).
		BASIS OF DESIGN: 'MIELE' KM5860-36" WITH 'MIELE' DA6490 36" DOWNDRAFT VENT
	OVEN	ELECTRIC 30" WALL OVEN, STAINLESS STEEL, UNDER COUNTER. PROVIDE FILLER PANELS TO MATCH CABINETRY AS REQUIRED.
-		BASIS OF DESIGN: 'MIELE' H6680BP 30"

_		BASIS OF DESIGN: 'MIELE' H6680BP 30" UNDERCOUNTER MOUNT WALL OVEN
_	DISHWASHER	BUILT-IN 24" UNDERCOUNTER DISHWASHER, STAINLESS STEEL TUB, WITH PANEL TO MATCH CABINETRY. ENERGY STAR.
_		BASIS OF DESIGN: 'MIELE' GEN6000 DIAMOND 24"

		DISHWASHER
_	REFRIGERATOR, TYPICAL UNIT	FULLY INTEGRATED PANEL-READY 36" REFRIGERATOR / FREEZER w/FILTRATION & ICE MAKER, SSTL. ENERGY STAR.
		BASIS OF DESIGN: 'MIELE' KF1930Vi 36" BOTTOM FREEZER
	MICROWAVE	24"W, DRAWER-STYLE, BELOW COUNTER, SSTL.
=		BASIS OF DESIGN: 'MIELE' M6260TC 24" INTEGRATED

22 40	Plumbing Fixtures - UPGRADE
Refer to base b	oid condition for general plumbing requirements, and for standard fixtures and
equipment, inc	luding water heater, garbage disposal, and all other accessories as required for

MICROWAVE MOUNT WITH TRIM KIT

BACK-TO-WALL MODEL #213909 w/ 'GEBERIT'
IN-WALL UNIT #109304 w/ SIGMA FLUSH PLATE
#115770
'DURAVIT' #006989
'VOLA' WS <i>UNIT</i> 60
'VOLA' WS <i>UNIT</i> 100
'VOLA' <i>911M</i> , 1.2 GPM.
'VOLA' WS <i>NICE</i> 25
POLISHED CHROME BOTTLE TRAP
'VOLA' <i>HV1M+30</i>
'VOLA' <i>2471-061</i>
VOLA 2411-001

FULL-WIDTH LINEAR DRAIN, SATIN SSTL, w/ SSTL FIXED FLANGE CHANNEL, WELDED END STOPS, AND INTEGRAL OUTLET

DRAIN, SOUND DEADENING

SHOWER

2" w/ DRAINAGE CHANNELS, 'INFIITY DRAIN' CD 22, OR CLAMP DOWN ASSEMBLY EQUIVALENT (REF. PLBG FOR MAT'L REQ'S)

'INFINITY DRAIN' #FFAS-25

NOTE: Bottom of shower head to be not less than 80" above finished elevation of shower floor. BATHTUB - FREESTANDING 'VICTORIA AND ALBERT' *VETRALLA* VET-N-SW-OF w/ K51 OVERFLOW AND STOPPER

TUB FILLER 'VOLA' 2411C-071 FAUCET, DIVERTER, AND HAND SHOWER w/ BUILT-IN THERMOSTATIC MIXING VALVE KITCHEN SINK PORCELAIN BOWL 'FRANKE' MANOR HOUSE #MHK110-2 FIRECLAY WHITE UNDERMOUNT 28"x20" w/REAR

3-1/2" SATIN SSTL STRAINER -TO MATCH FAUCET AND DRAIN SINGLE LEVER KITCHEN FAUCET 'VOLA' 590H

accessories as required for a complete installation.

KITCHEN SPRAY HEAD 'VOLA' *500MT1* 09 30 Tile - UPGRADE Refer to base bid condition for general material and installation requirements, and for all other

09 64

'WATERWORKS' *KEYSTONE* 6"x12" ARAN GRAY IN HONED FINISH, THINSET OR MORTAR SET - REF DETAILS FOR SPECIFIC INSTALLATION REQUIREMENTS BY LOCATION/USE.

WALLS (BATHROOMS ONLY): 'WATERWORKS' WATERCOLORS 3"x6" SEA SALT IN SANDED FINISH, THINSET w/ WHITE MODIFIED MORTAR o/ C.B.U.'s.

Wood Plank Floors - UPGRADE

Refer to base bid condition for general material and installation requirements, and for all other accessories as required for a complete installation.

FLOORING: 'CARLISE WIDEPLANK FLOORS' CASUAL COLLECTION; 8" wide unfinished t&g engineered wood flooring. Species: White Oak, 'Weathered Windmill'. Finish: Site finish with Polyurethane UV resistant top coat in Extra Matte Sheen. Provide w/ matching square-edged stair nosing, treads and risers.

Carpet - UPGRADE

CARPET

Refer to base bid condition for general material and installation requirements, and for all other accessories as required for a complete installation.

> SCOTCHGARD; COLOR TO BE SELECTED BY OWNER W/ 'J MISH', NATURAL PERFORMANCE WOOL CUSHION

'KARASTAN' *DONNINGTON* PATTERNED LOOP PILE,

100% NEW ZEALAND WOOL AND WOOL BLENDS, w/

24 OZ. CARPET PAD.

STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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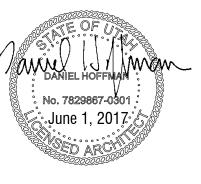
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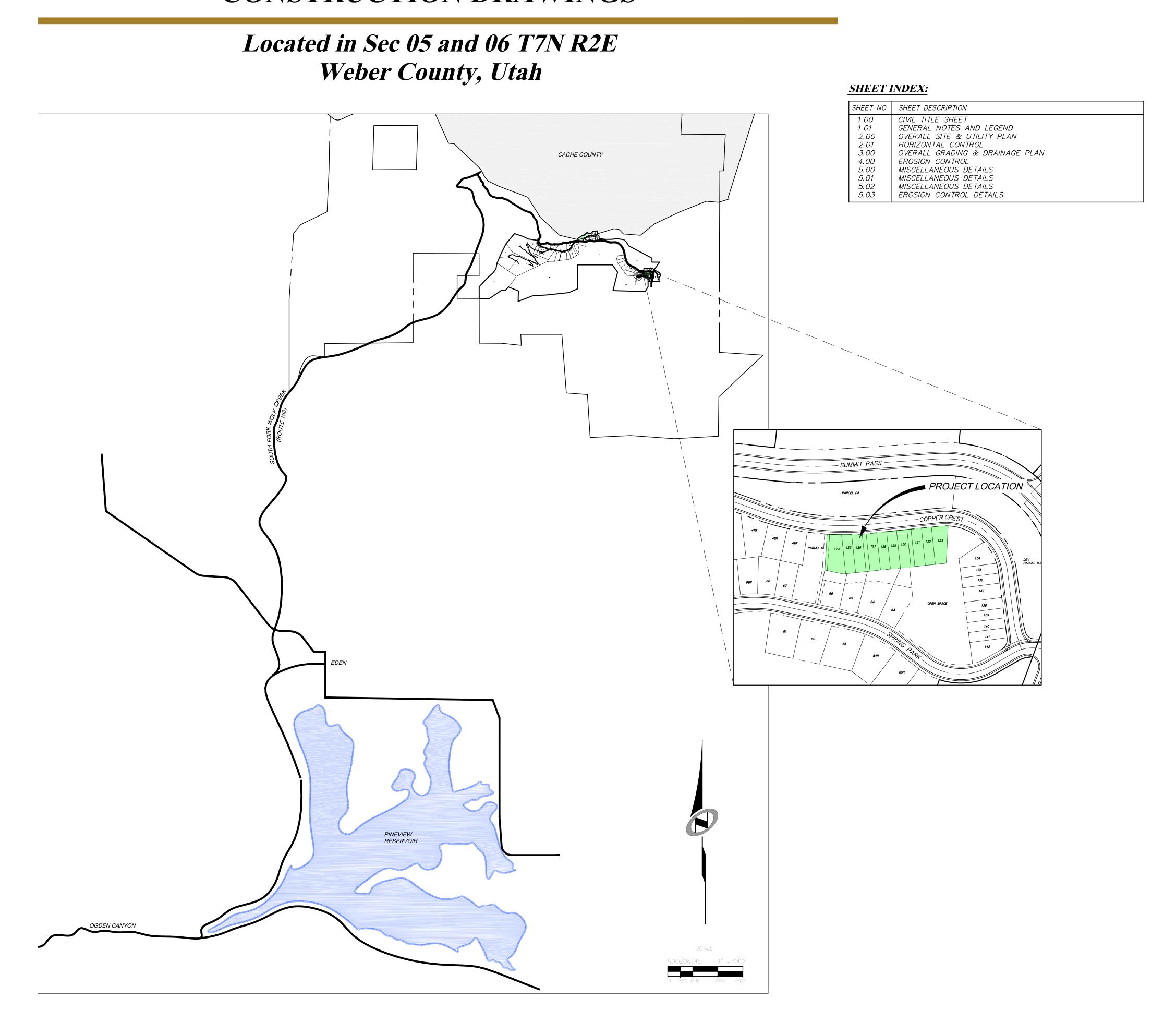
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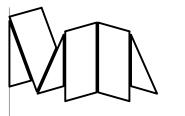


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POWDERCAT CONSTRUCTION DRAWINGS





architect
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sma project no. **16—101**

sma project name
POWDERCAT

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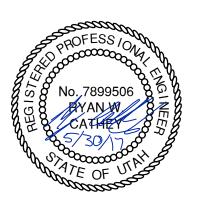
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C1.00
CIVIL TITLE
SHEET

1'=3000'

SUBMITTAL SET

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
- 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 INSTALL FOR THE PROPERTY.
- 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.
- CONTRACTOR SHALL CUT PIPES OFF FLUSH WITH THE INSIDE WALL OF THE BOX OR MANHOLE.
 CONTRACTOR SHALL GROUT AT CONNECTION OF PIPE TO BOX WITH NON—
- SHRINKING GROUT, INCLUDING PIPE VOIDS LEFT BY CUTTING PROCESS, TO A SMOOTH FINISH.

 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 DRAINED SO THE PIPE LAYING MAY TAKE PLACE IN DEWATERED CONDITIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COST OF DEWATERING AND NO COST CHANGE WILL BE PROVIDED.
- 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.
- UTILITY LINES. 15. ALL BOLTED FITTINGS MUST BE GREASED AND WRAPPED.

LINES SHALL BE A MINIMUM OF 18" ABOVE SEWER LINES.

- 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. WATER AND SEWER LINES SHALL NOT BE IN THE SAME TRENCH. IN CROSSING LOCATIONS WATER
- 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
- 24. WATER AND SEWER UTILITIES TO BE INSTALLED PER POWDER MOUNTAIN WATER & SEWER DISTRICT REQUIREMENTS.

LEGEND:

SYMBOL / LINETYPE	DESCRIPTION	DETAIL
	LIMITS OF DISTURBANCE WATER LATERAL CONNECTION WATER METER WATER CAP/STUB 4"ø SDR-35 PVC SEWER PIPE 8"ø SDR-35 PVC SEWER PIPE 4'ø SANITARY SEWER MANHOLE	DETAIL A/SHEET C5.03 APWA PLAN NO. 521, DETAIL A/SHEET C5.03 N/A APWA PLAN NO. 381, 382 APWA PLAN NO. 381, 382 APWA PLAN NO. 411
	SANITARY SEWER CAP/STUB 6"Ø HDPE STORM DRAIN PIPE ELECTRICAL CONDUIT ELECTRICAL PULL BOX EXISTING 8"Ø WATER PIPE EXISTING WATER LATERAL EXISTING WATER VALVE EXISTING WATER LATERAL EXISTING WATER LATERAL EXISTING WATER LATERAL	N/A APWA PLAN NO. 381, 382 N/A APWA PLAN NO. 315
15"SD —	EXISTING 4'Ø SANITARY SEWER MANHOLE EXISTING 15"Ø STORM DRAIN PIPE EXISTING 4'Ø STORM DRAIN MANHOLE	
——————————————————————————————————————	EXISTING STORM DRAIN CATCH BASIN EXISTING ELECTRICAL CONDUIT	
	EXISTING ELECTRICAL PULL BOX EXISTING ELECTRICAL TRANSFORMER	
COM(1)4"COM	EXISTING COMMUNICATIONS CONDUIT EXISTING COMMUNICATIONS PULL BOX	

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

ABBREVIATION

APWA	AMERICAN PUBLIC WORKS ASSOCIATION	MAX	MAXIMUM
AC	ASPHALTIC CONCRETE	MH	MANHOLE
&	AND	MIN	MINIMUM
APPR.		MSE	MECHANICALLY STABILIZED EARTH
ARV	AIR RELEASE VALVE	N	NORTH
@	AT	NIC	NOT IN CONTRACT
BDRY	BOUNDARY	NTS	NOT TO SCALE
BRG	BEARING	OC	ON CENTER
BS		OH	
BVC	BEGIN VERTICAL CURVE	PC	POINT OF CURVATURE
BW	BOTTOM OF WALL	PI	POINT OF INTERSECTION
CB	CATCH BASIN	PL	PROPERTY LINE
	CENTERLINE	POC	POINT ON CURVE
CMP	CORRUGATED METAL PIPE	PP .	
COB	CLEANOUT BOX	PRC	POINT OF REVERSE CURVE
CONC	CONCRETE	PRV	PRESSURE REDUCING VALVE
DET	DETAIL	PSI	POUNDS PER SQUARE INCH
DIA		PT	POINT OF TANGENT
DIP		PVC	POLYVINYL CHLORIDE
DIST	DISTRICT	PU&DE	PUBLIC UTILITY & DRAINAGE EASEMENT
DWG	DRAWING	PUE	
E	ENTRY	PVI	POINT OF VERTICAL INTERSECTION
EA		PVT	POINT OF VERTICAL TANGENT
EC	EDGE OF CONCRETE	R	RADIUS
EG	EXISTING GRADE	RCP	REINFORCED CONCRETE PIPE
EP	EDGE OF PAVEMENT	REF	REFERENCE
ER	EDGE OF ROAD	ROW	RIGHT-OF-WAY
EVC		SS	SANITARY SEWER
	ELEVATION	SD	STORM DRAIN
ESMT	EASEMENT	SW	SIDEWALK
EX	EXISTING	SCH	SCHEDULE
FF	FINISH FLOOR	SEC.	SECTION
FG	FINISH GRADE	SF	SQUARE FEET
FH	FIRE HYDRANT	STA	STATION
FL	FLOWLINE	STD	STANDARD
FT	FEET	TBC	TOP BACK OF CURB
GAR	GARAGE	TC	TOP OF CONCRETE
GB	GRADE BREAK	TEMP	TEMPORARY
HP	HIGH POINT	TG	TOP OF GRATE
HORIZ	HORIZONTAL	TS	TOP OF STAIR/STEP
HYD	HYDRANT	TW	TOP OF WALL
ID	INSIDE DIAMETER	TYP	TYPICAL
ΙE	INVERT ELEVATION	VAR	VARIES
INV	INVERT	VERT	VERTICAL
IRR	IRRIGATION	W/	WITH
L	LENGTH		
1 -	LINEAD FEET		

LINEAR FEET

LOW POINT

WEBER COUNTY

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

ROCKY MOUNTIAN POWER

KARL SEWELL 1438 WEST 2550 SOUTH OGDEN, UT 84401 (801) 629-4310

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sma project name
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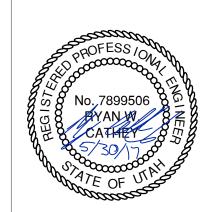
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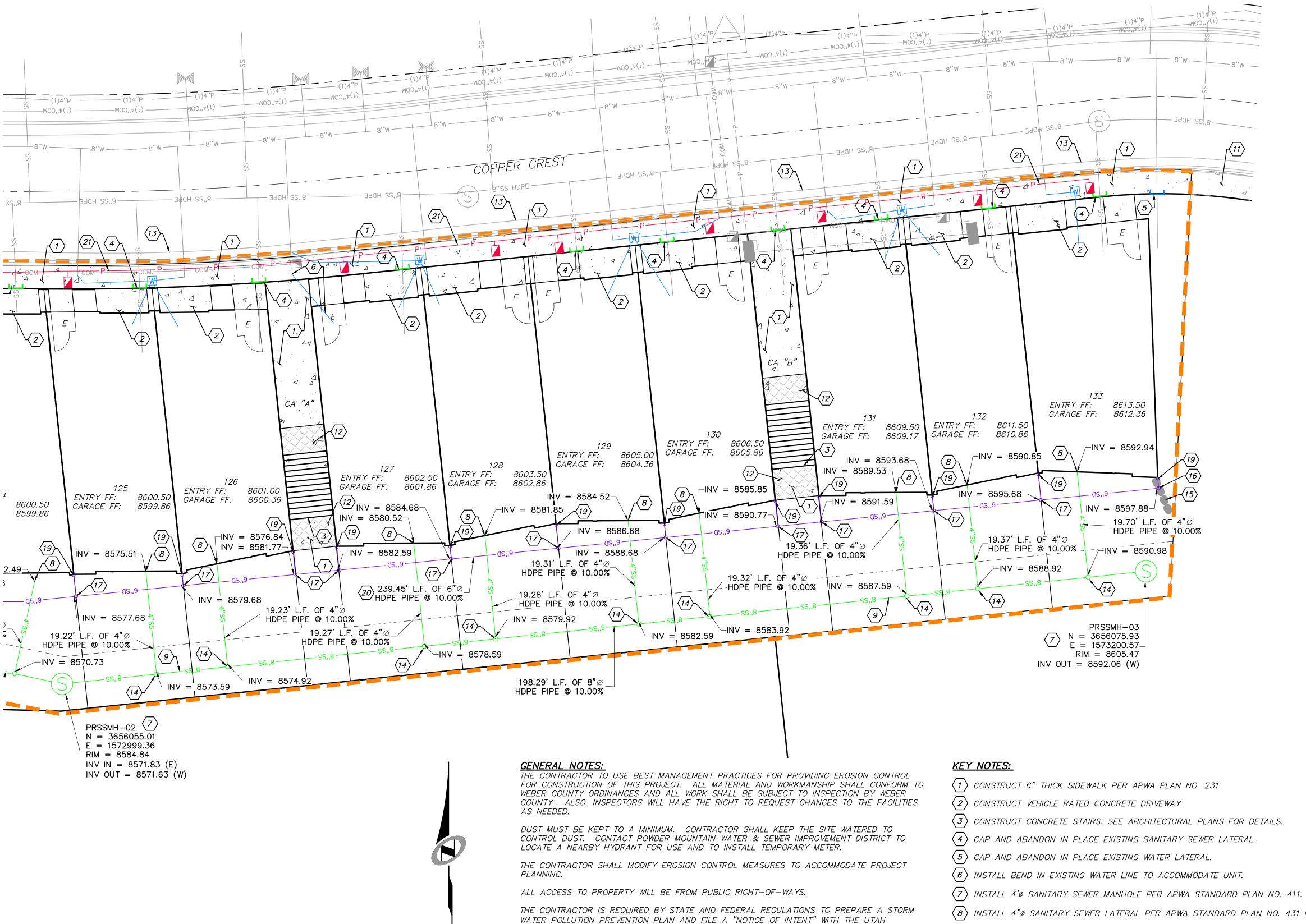
LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295



C1.01 GENERAL NOTES SHEET

N/A scale

SUBMITTAL SE



DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER QUALITY.

ENSURE MINIMUM BURIED DEPTH PER BUILDING CODE FOR ALL BURIED UTILITIES.

RIP RAP, AND DRAINAGE PATTERN ASSOCIATED WITH ANY DRAINAGE EASEMENT.

ENSURE ALL GRADING SLOPES AWAY FROM STRUCTURE AT 5% FOR A MINIMUM OF 10' PER IRC

IMPROVEMENTS, INCLUDING LANDSCAPING, SHALL NOT INTERFERE WITH THE DRAINAGE CULVERT,

 $\langle 8 \rangle$ install 4"ø sanitary sewer lateral per apwa standard plan no. 431 modified.

9 INSTALL 8"Ø HDPE PIPE. TRENCHING AND BACKFILL PER APWA STANDARD PLAN NO. 381 AND 382.

(10) CONNECT TO EXISTING SANITARY SEWER MANHOLE.

 $\langle 11 \rangle$ FUTURE SIDEWALK TO BE INSTALLED BY OTHERS.

(12) LANDING. SLOPE TO NOT EXCEED 2.00% MAX IN ANY DIRECTION. SEE GRADING PLAN.

PROTECT IN PLACE EXISTING IMPROVEMENTS. IF DAMAGED, REPLACE PER DETAILS ON SHEETS C5.00 AND C5.01.

 $\langle 14 \rangle$ WYE CONNECT TO SANITARY SEWER PIPE.

(15) ROCK RETAINED SLOPE LESS THAN 48" VERTICAL HEIGHT.

(16) 6"ø 90° HDPE PIPE BEND.

(17) 6"x6"x6" HDPE TEE.

(18) CONNECT TO EXISTING STORM DRAIN PIPE.

(19) ROOF DRAIN DOWNSPOUT CONNECTION. SEE MECHANICAL PLANS FOR DETAIL.

(20) INSTALL 6" HDPE PIPE. TRENCHING AND BACKFILL PER APWA STANDARD PLAN NO. 381 AND 382.

INSTALL ELECTRICAL CONDUITS AND PULL BOXES PER ELECTRICAL PLANS. CONTRACTOR TO FIELD VERIFY EXISTING ELECTRICAL EQUIPMENT LOCATIONS ON SITE PRIOR TO CONSTRUCTION.

STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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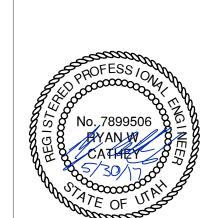
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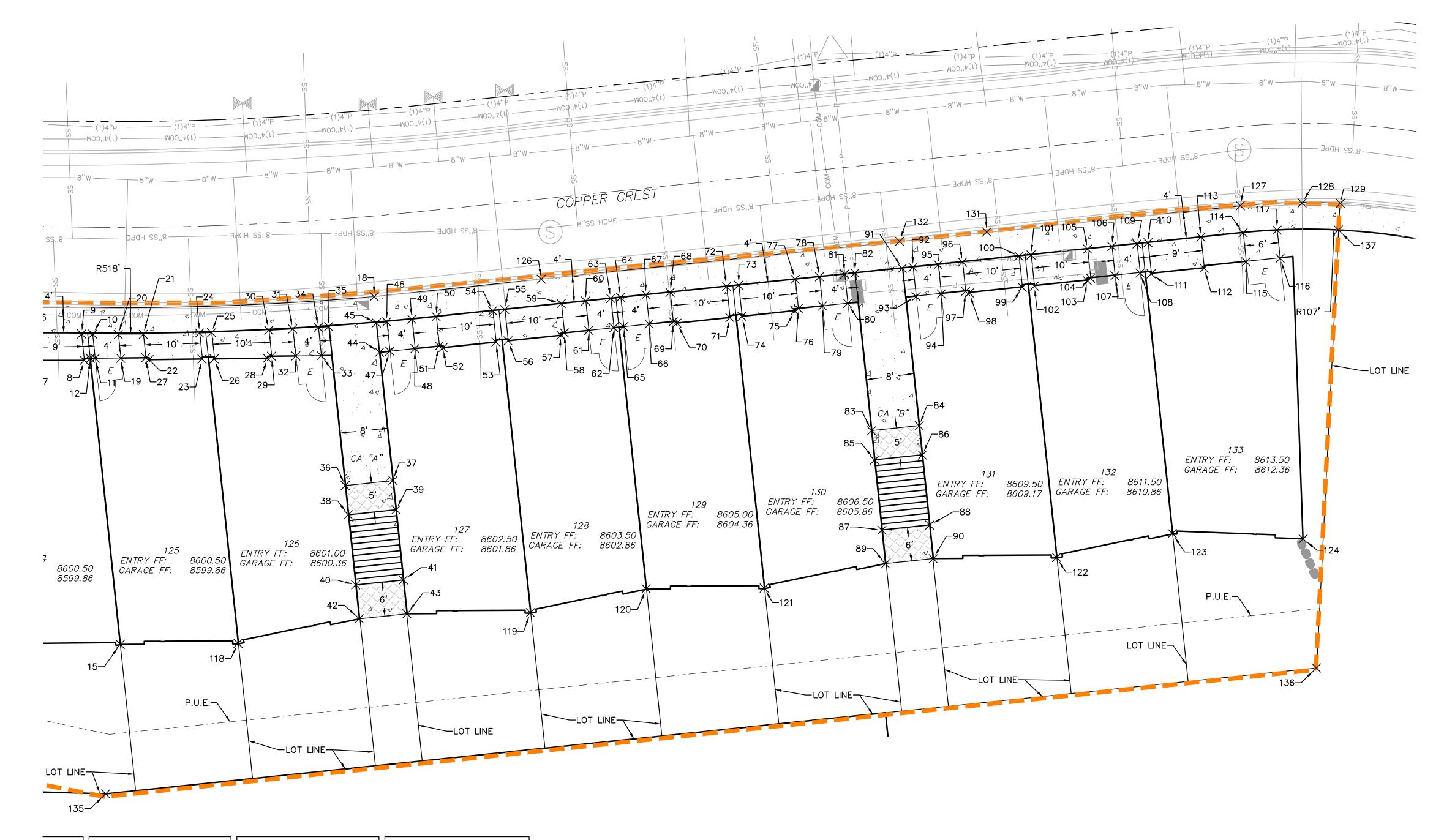


PLAN REVIEW ACCEPTANCE FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOV ■ BUILDING STRUCTURAL ▼MECHANICAL ▼PLUMBING XELECTRICAL XENERGY ACCESSIBILITY FIRE PLAN REVIEW ACCEPTANCE OF DOCUMENT DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS. Y: MEM WEST COAST CODE CONSULTANTS, INC

PLAN

1"=10'

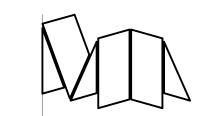
SUBMITTAL SET 2017.05.30



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173026.78 58 3656128.38 1573077.06 86 3656107.60 1573137.95 114 3656145.41 157319.25.35 173030.84 59 3656133.36 1573076.53 87 3656094.81 1573131.08 115 3656140.46 157319.30 115 3656140.46 157319.30 115 3656140.46 157319.30 116 3656141.06 157319.30 116 3656141.06 157319.81 118 3656045.84 1573198.81 117 3656145.84 1573198.81 117 3656145.84 1573198.81 118 3656075.56 1573021.56 137303.978 64 3656134.24 1573084.95 91 3656139.34 1573134.54 119 3656080.78 1573071.28 173047.91 65 3656129.89 1573091.48 94 3656135.01 1573141.18 122 3656094.86 1573090.97 1373042.16 68 3656135.26 1573095.57 97 3656135.44 1573195.20 124 3656094.25 1573190.47 13656130.96 1573105.22 98 3656135.17 1573145.96 127 3656130.96 1573190.27 13656130.96 1573105.22 99 3656135.31 1573156.45 129 3656150.42 1573090.97 13656130.96 1573105.22 99 3656136.12 1573154.40 127 3656150.42 1573190.95 137304.66 1366130.96 1573105.27 100 3656141.63 1573156.59 134 365605.04 1573190.95 13656130.96 1573105.27 100 365613.38 1573156.07 131 3656150.42 1573190.95 130 3656130.96 1573105.27 130 3656130.96 1573105.27 100 365613.38 1573156.07 131 3656150.42 1573190.95 130 3656130.42 1573106.71 131 3656150.42 1573106.97 130 3656130.96 1573105.27 100 365613.38 1573156.05 134 365607.82 1573106.97 130 3656130.96 1573105.27 130 3656130.96 1573105.27 130 3656130.88 1573106.07 131 3656150.42 1573106.85 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.87 1373106.97 1373106.87 1373106.87 1373106.87 1373106.87 1373106.	Easting	Point #	Northing	Easting	Point #	Northing	Easting	Point #	Northing	Easting
18 3656133.36 1573076.53 87 3656094.81 1573131.08 115 3656140.46 157319.04 173013.37 160 3656133.79 1573080.67 88 3656095.67 1573139.20 116 3656141.06 1573198.81 173035.69 61 3656128.81 1573081.19 89 3656089.09 1573131.68 117 3656145.84 1573198.30 173035.19 62 3656132.26 1573084.95 91 3656089.95 1573139.81 118 3656075.56 1573021.56 173039.78 64 3656134.42 1573084.95 91 3656139.34 1573134.54 119 3656080.78 1573090.97 173040.31 66 3656129.84 1573091.48 94 3656135.01 157314.18 122 3656094.86 157310.07 173040.31 66 3656135.26 157309.50 95 3656139.98 157314.06 123 3656094.25 1573180.47 173042.16 173086.22 98 3656135.54 157314.79 124 3656093.33 1573202.74 173045.62 173050.29 173 3656130.01 1573096.22 98 3656135.17 157315.40 128 3656130.13 1572982.85 173045.60 173046.84 173067.27 102 3656136.33 157315.00 157316.85 104 3656137.28 157316.85 104 3656137.28 157316.85 104 3656137.92 157316.85 104 3656137.20 133 365615.44 157316.50 133 365615.44 157316.90 133 365615.44 157316.85 104 3656137.89 157316.85 104 3656137.89 157316.60 132 3656150.42 1573209.07 13656132.12 157316.85 104 3656133.33 157315.00 133 365615.54 157316.85 104 3656137.89 157316.60 132 3656150.42 1573209.07 13656137.99 157316.85 104 3656133.18 157310.20 135 3656145.89 1573208.73 105 3656133.30 157310.20 136 365607.92 1573208.73 105 3656133.30 157310.20 136 365607.92 1573208.73 105 3656133.30 157310.20 136 365607.92 1573208.73 105 3656133.30 157310.20 136 365607.92 1573208.73 105 3656133.80 157310.20 136 365607.92 1573208.73 105 3656133.80 157310.20 136 365607.92 1573208.73 105 3656133.80 157310.20 136 365607.92 1573208.73 105 3656133.30 157310.20 136 365607.92 1573208.73 105	73027.24	57	3656127.98	1573076.48	85	3656106.75	1573129.83	113	3656144.66	1573185.35
1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973	73026.78	58	3656128.38	1573077.06	86	3656107.60	1573137.95	114	3656145.41	1573192.53
1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973 1973	73030.84	59	3656133.36	1573076.53	87	3656094.81	1573131.08	115	3656140.46	1573193.04
18 3656129.26 1573085.47 90 3656089.95 1573139.81 118 3656075.56 1573021.56 1573036.95 63 3656134.24 1573084.95 91 3656139.34 1573134.54 119 3656080.78 1573071.28 120 3656084.86 1573090.97 165 3656129.44 1573087.15 93 3656135.51 1573136.90 121 3656084.86 1573090.97 173040.31 66 3656129.89 1573091.48 94 3656135.01 157314.18 122 3656090.18 1573160.79 173048.43 67 3656134.87 1573090.96 95 3656139.98 1573140.65 123 3656042.5 1573180.47 173041.56 68 3656135.26 1573095.57 97 3656135.44 1573145.31 125 3656133.13 157202.74 173050.29 173656130.96 1573105.22 99 3656136.12 1573154.96 127 3656130.01 157306.21 100 365614.42 1573154.40 128 3656150.48 1573092.56 127 3656150.48 1573106.71 101 3656141.63 1573156.45 129 3656150.42 1573106.27 102 365613.25 1573166.01 132 3656057.82 1573160.97 13656132.51 1573116.27 103 3656137.28 1573166.01 132 3656145.54 1573140.99 1373051.29 77 3656132.51 1573116.27 103 3656137.28 1573166.01 132 3656145.94 1573140.99 157316.35 104 3656137.68 1573160.01 135 3656057.82 1573160.00 1573192.00 136 3656057.82 1573160.00 1573192.00 136 3656057.82 1573160.00 1573192.00 136 3656057.82 1573160.00 1573192.00 136 3656057.82 1573160.00 1373192.00 136 3656057.82 1573160.00 1373192.00 136 3656057.82 1573100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00 1373100.00	573031.37	60	3656133.79	1573080.67	88	3656095.67	1573139.20	116	3656141.06	1573198.81
19 3656134.24 1573084.95 91 3656139.34 1573134.54 119 3656080.78 1573071.28 1573039.78 64 3656134.42 1573086.62 92 3656139.53 1573136.37 120 3656084.86 1573090.97 121 3656084.86 1573090.97 122 3656084.86 1573090.97 123 3656084.86 1573090.97 124 3656084.86 1573090.97 125 3656084.86 1573090.97 126 3656084.86 1573090.97 127 3656094.86 1573110.66 122 3656084.86 1573090.97 128 3656084.86 1573090.97 129 3656084.86 1573090.97 129 3656084.86 1573090.97 129 3656084.86 1573090.97 129 3656084.86 1573090.97 120 3656084.86 1573090.97 120 3656084.86 1573090.97 120 3656094.25 1573180.47 124 3656094.25 1573180.47 124 3656093.33 1573202.74 125 3656033.33 1573202.74 126 3656033.33 1573202.74 127 3656130.96 1573105.22 127 3656130.96 1573105.22 127 3656136.48 1573106.71 128 3656150.00 1573192.05 128 3656150.48 1573090.97 128 3656136.48 1573106.77 129 3656136.48 1573106.77 129 3656136.48 1573106.77 129 3656136.33 1573156.45 129 3656150.42 1573148.92 157316.64 128 3656133.13 1573160.99 130 3656133.13 1573160.99 130 3656133.14 1573160.79 131 3656143.95 1573140.99 130 3656133.15 1573160.79 131 3656143.95 1573140.99 130 3656133.15 1573160.79 132 3656143.95 1573120.46 106 3656143.08 1573170.20 135 3656049.95 1573200.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 1373190.00 13731	73035.69	61	3656128.81	1573081.19	89	3656089.09	1573131.68	117	3656145.84	1573198.30
120 3656084.86 1573090.97 120 3656084.86 1573090.97 120 3656084.86 1573090.97 120 3656084.86 1573090.97 120 3656084.86 1573090.97 120 3656084.86 1573090.97 120 3656084.86 157310.06 120 3656084.86 157310.07 120 3656084.86 157310.07 120 3656084.86 157310.07 120 3656090.18 157310.07 120 3656090.18 157310.07 120 3656090.18 157310.07 120 3656090.18 157310.07 120 3656090.18 157310.07 120 3656090.18 1573100.79 120 3656090.25 1573180.47 120 3656090.25 1573180.47 120 3656090.33 1573202.74 120 3656090.33 1573202.74 120 3656090.33 1573202.74 120 3656090.33 1573202.74 120 3656090.33 1573202.74 120 3656090.33 1573202.74 120 3656090.33 1573202.74 120 3656090.33 1573202.74 120 3656090.33 1573202.74 120 3656090.33 1573202.74 120 3656090.33 1573202.74 120 3656090.33 1573202.74 120 3656090.33 1573202.74 120 3656090.33 1573202.74 120 3656090.33 1573202.74 120 3656090.33 1573202.75 120 3656090.25 120 3656090.33 1573202.56 120 3656090.33 1573202.56 120 3656090.33 1573202.56 120 3656090.33 1573202.56 120 3656090.33 1573202.56 120 3656090.33 1573202.56 120 3656090.33 1573202.56 120 3656090.33 1573202.56 120 3656090.33 1573202.56 120 3656090.33 1573202.56 120 3656090.33 1573209.07 120 3656090.33 1573150.00 120 3656090.33 1573209.07 120 3656090.33 1573160.59 120 3656090.33 1573209.07 120 3656090.33 1573100.20 130 3656090.33 1573209.00 130 3656090.33 1573209.00 130 3656090.33 1573209.00 130 3656090.33 1573209.00 130 3656090.33 1573209.00 130 3656090.33 1573209.00 120 3656090.33 1573209.00 120 3656090.33 1573209.00 120 3656090.33 1573209.00 120 3656090.33 1573209.00 120 3656090.33 1573209.00 120 3656090.33 1573209.00 120 3656090.33 1573209.00 120 3656090.33	573035.19	62	3656129.26	1573085.47	90	3656089.95	1573139.81	118	3656075.56	1573021.56
73047.91 65 3656129.44 1573087.15 93 3656134.56 1573136.90 121 3656084.96 1573110.06 1573040.31 66 3656129.89 1573091.48 94 3656135.01 1573141.18 122 3656090.18 1573160.79 123 3656090.18 1573160.79 124 3656090.18 1573160.79 125 3656090.18 1573160.79 126 3656090.18 1573160.79 127 3656090.18 1573160.79 128 3656090.18 1573160.79 129 3656090.18 1573160.79 129 3656090.18 1573160.79 129 3656090.18 1573160.79 129 3656090.18 1573160.79 129 3656090.18 1573160.79 129 3656090.18 1573160.79 129 3656090.18 1573160.79 129 3656090.18 1573160.79 129 3656090.18 1573160.79 129 3656090.33 1573202.74 129 3656090.33 1573202.74 129 3656090.33 1573202.74 129 3656090.33 1573202.74 129 3656090.33 1573202.74 129 3656090.33 1573202.74 129 3656090.33 1573202.74 129 3656090.33 1573202.74 129 3656090.33 1573202.74 129 3656090.33 1573202.75 120 3656090.29 120 3656090.33 1573202.75 120 3656090.29 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 1573202.75 120 3656090.33 157320.50 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20 120 3656090.33 157320.20	73036.95	63	3656134.24	1573084.95	91	3656139.34	1573134.54	119	3656080.78	1573071.28
	73039.78	64	3656134.42	1573086.62	92	3656139.53	1573136.37	120	3656084.86	1573090.97
73048.43 67 3656134.87 1573090.96 95 3656139.98 1573140.65 123 3656094.25 1573180.47 73041.56 68 3656135.26 1573095.05 96 3656140.41 1573144.79 124 3656093.33 1573202.74 73049.68 69 3656130.28 1573095.27 97 3656135.44 1573145.95 125 3656133.13 1572982.85 73042.16 70 3656130.01 1573096.22 98 3656135.17 1573145.95 126 3656130.13 1573073.13 73050.29 71 3656130.96 1573105.22 99 3656136.12 1573154.96 127 3656150.00 1573192.05 73045.62 72 3656136.48 1573106.71 101 3656141.63 1573154.40 128 3656150.48 1573209.05 73045.69 74 3656131.17 1573107.27 102 3656136.33 1573157.01 131 3656145.54 1573148.92 73047.37 75 3656132.12 1573116.85 1	573047.91	65	3656129.44	1573087.15	93	3656134.56	1573136.90	121	3656084.96	1573111.06
73041.56 68 3656135.26 1573095.05 96 3656140.41 1573144.79 124 3656093.33 1573202.74 73049.68 69 3656130.28 1573095.57 97 3656135.44 1573145.31 125 3656133.13 1572982.85 73042.16 70 3656130.01 1573096.22 98 3656135.17 1573145.95 126 3656137.51 1573073.13 73050.29 71 3656136.27 1573105.22 99 3656136.12 1573154.96 127 3656150.00 1573192.05 73045.62 72 3656136.48 1573106.71 101 3656141.63 1573156.45 129 3656150.42 1573209.07 73046.84 74 3656132.12 1573116.27 102 3656137.28 1573166.01 131 3656143.95 1573148.92 73051.64 76 3656137.49 1573116.33 105 3656137.68 1573166.59 134 3656073.2 1572999.04 73055.25 78 3656132.95 1573120.98 1	573040.31	66	3656129.89	1573091.48	94	3656135.01	1573141.18	122	3656090.18	1573160.79
73049.68 69 3656130.28 1573095.57 97 3656135.44 1573145.31 125 3656133.13 1572982.85 73042.16 70 3656130.01 1573096.22 98 3656135.17 1573145.95 126 3656137.51 1573073.13 73045.62 72 3656136.27 1573104.66 100 3656141.42 1573154.40 128 3656150.00 1573192.05 73045.09 73 3656136.48 1573106.71 101 3656141.63 1573156.45 129 3656150.42 1573209.07 73047.37 75 3656132.12 1573116.27 102 3656137.28 1573166.01 131 3656145.54 1573148.92 73047.37 75 3656137.49 1573116.35 104 3656137.68 1573166.59 134 3656057.82 1573134.09 1373055.25 78 3656137.92 1573120.46 106 3656143.08 1573170.20 136 3656071.37 1573205.00 1373056.42 80 3656138.37 1573124.74 82 3656138.37 1573124.74 82 3656138.55 1573126.49 110 3656143.52 1573176.35 1573176.35 109 3656143.72 1573176.35 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 1573176.35 109 3656143.72 109 3656143.72 109 3656143.72 109 365614	73048.43	67	3656134.87	1573090.96	95	3656139.98	1573140.65	123	3656094.25	1573180.47
73042.16 70 3656130.01 1573096.22 98 3656135.17 1573145.95 126 3656137.51 1573073.13 73050.29 71 3656130.96 1573105.22 99 3656136.12 1573154.96 127 3656150.00 1573192.05 73045.62 72 3656136.27 1573104.66 100 3656141.42 1573154.40 128 3656150.48 1573202.56 73045.89 74 3656131.17 1573107.27 102 3656136.33 1573156.45 129 3656150.42 1573209.07 73045.84 75 3656132.12 1573116.27 103 3656137.28 1573166.01 131 3656143.95 1573148.92 73051.64 76 3656132.91 1573116.85 104 3656137.68 1573166.01 132 3656043.95 1573134.09 73055.25 78 3656132.92 1573120.46 106 3656138.11 1573170.72 136 3656071.37 1573208.73 73056.42 80 3656133.40 1573125.26 <t< td=""><td>573041.56</td><td>68</td><td>3656135.26</td><td>1573095.05</td><td>96</td><td>3656140.41</td><td>1573144.79</td><td>124</td><td>3656093.33</td><td>1573202.74</td></t<>	573041.56	68	3656135.26	1573095.05	96	3656140.41	1573144.79	124	3656093.33	1573202.74
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sma project no. **16—101**

sma project name
POWDERCAT

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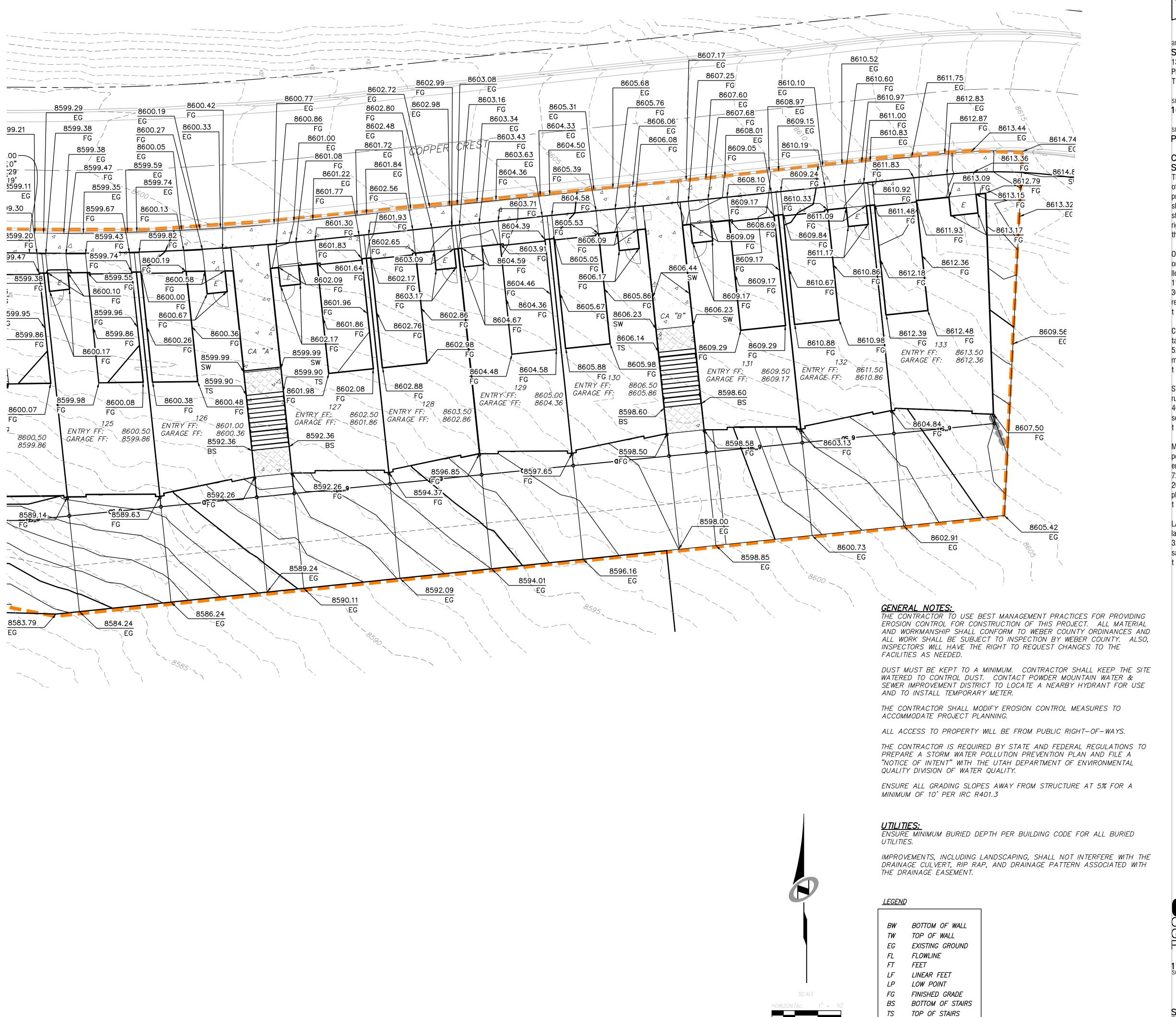
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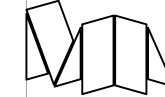
C2.01
HORIZONTAL
CONTROL

1"=10' scale

SUBMITTAL SET

phase 7 rev 2017.05.30





STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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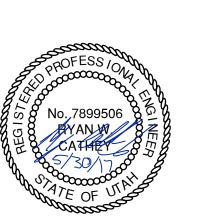
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PLAN REVIEW ACCEPTANCE FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOV ▼BUILDING STRUCTURAL MECHANICAL PLUMBING XELECTRICAL XENERGY ACCESSIBILITY FIRE PLAN REVIEW ACCEPTANCE OF DOCUMENT: DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS. BY: MEM WEST COAST CODE CONSULTANTS, INC

GRADING PLAN

1"=10' scale

SW SIDEWALK

SUBMITTAL 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 COUNTY. 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.

FXPOSED SLOPE

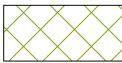
ANY EXPOSED SLOPE THAT WILL REMAIN UNTOUCHED FOR LONGER THAN 14 DAYS MUST BE STABILIZED BY ONE OR MORE OF THE FOLLOWING METHODS:

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

SCOPE OF WO

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

SLOPES GREATER THAN 1.5:1.



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



INSTALL INLET PROTECTION IN FORM OF CONCRETE BLOCKS / FILTER CLOTH / GRAVEL OR SILT SACK AT EXISTING AND PROPOSED CATCH BASINS AS SHOWN ON PLAN.
SEE EROSION CONTROL DETAILS SHEET 5.05

INSTALL SILT FENCE ALONG DOWN GRADIENT LIMITS OF DISTURBANCE AS SHOWN ON PLAN. SEE EROSION CONTROL DETAILS SHEET 5.05

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

* SEED MIXTURE FOR REVEGITATION

40% MOUNTAIN BROME (BROMUS MARGINATUS)

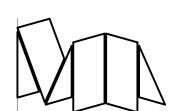
25% SLENDER WHEATGRASS (ELYMUS TRACHYCAULUS SSP. TRACHYCAULUS)
5% SHEEP FESCUE (FESTUCA OVINA SPP. DURIUSCULA)

5% ALPINE BLUEGRASS (POA ALPINE)

25% THICKSPIKE WHEATGRASS (ELYMUS LANCEOLATUS SSP. LANCEOLATUS)

SEEDING RATE IS 40 POUNDS PER ACRE.





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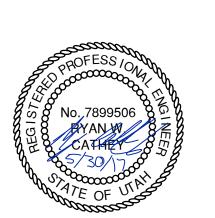
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PLAN REVIEW ACCEPTANCE

FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

BUILDING STRUCTURAL PLUMBING

ELECTRICAL PLUMBING

ACCESSIBILITY FIRE

PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.

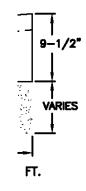
BY: MEM DATE: 07/21/17

WEST COAST CODE CONSULTANTS, INC.

C4.00 EROSION CONTROL PLAN

1"=20' scale

SUBMITTAL SET



st be acceptable to the d at ENGINEER's discretion. stion 32 16 13.

ion 32 11 23. Do not use gravel

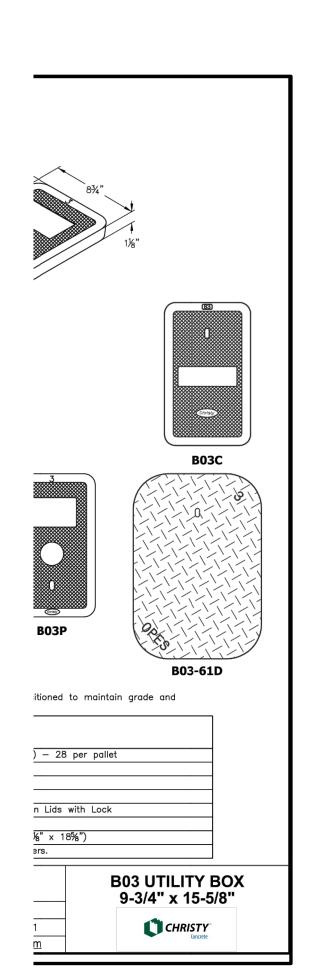
epth, APWA Section 32 13 73. Inecessary, provide concrete that caution; however, as concrete ure exceeds 90 degrees F. compound with fugitive dye (Type

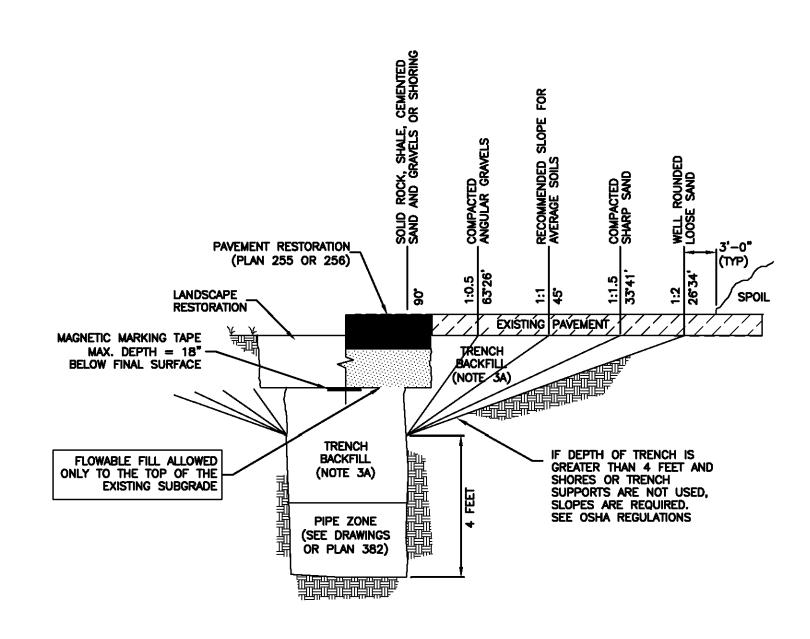
Thickness is 6-inches if flowope is less, provide 8-inches. es when using riding equipment opaction is 95 percent or greater on 31 23 26.

cop of filler set flush with concrete ersection curb return. Expansion sing slip-form construction. or 1/4 slab thickness if the slab is a in adjacent Portland-cement

finish. Apply a curing agent.

ng chemicals during cure. Repair
ow-line with water to verify.





Trench backfill
203

Plan **381**

Trench backfill

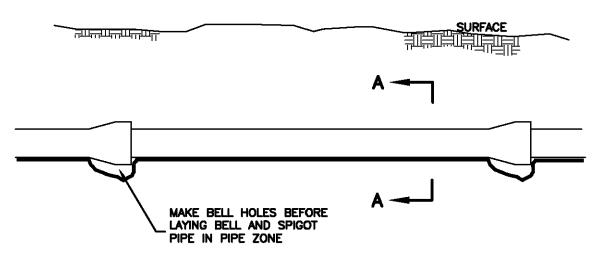
1. GENERAL

January 2011

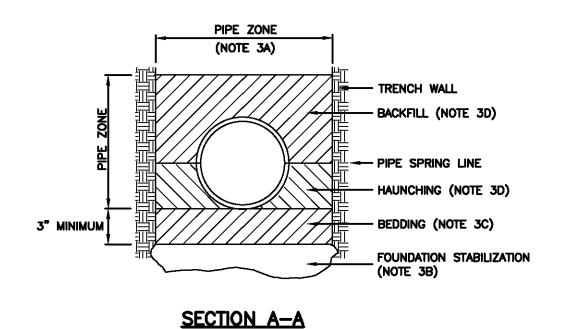
A. The drawing applies to backfilling the trench above the pipe zone.

2. PRODUCTS

- A. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 3-inches.
 B. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
- 3. EXECUTION
- A. Trench Backfill:
 - DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate as trench
 backfill
 - Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.
 - Water jetting is NOT allowed.
 - 4) Submission of quality control compaction test result data developed for haunching areas may be requested by ENGINEER at any time. Provide results of tests immediately upon request.
- B. Flowable Fill: When required, place controlled low strength material in the trench, APWA Section 31 05 15. Cure the fill before placing surface restorations.
- C. Surface Restoration:
 - Landscaped Surface: Rake to match existing grade. Replace vegetation to match pre-construction conditions. Follow APWA Section 32 92 00 (turf or grass) or APWA Section 32 93 13 (ground cover) requirements.
 - 2) Paved Surface: Do not install asphalt or concrete surfacing until trench compaction is acceptable to ENGINEER. Follow APWA Section 33 05 25 (asphalt surfacing), or APWA Section 33 05 25 (concrete surfacing).



ELEVATION VIEW



INSTALLATION

CONCRETE PIPE: FOLLOW ASTM C 1479
"STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SENER, STORM DRAIN, AND CULVERT PIPE USING STANDARD INSTALLATIONS.

PVC AND HDPE PIPE: FOLLOW ASTM D 2321
"STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY—FLOW APPLICATIONS"

APPLICATIONS"

CORRUGATED METAL PIPE: FOLLOW ASTM A 798
"STANDARD PRACTICE FOR INSTALLING FACOTRY—MADE CORRUGATED STEEL PIPE FOR SEWERS AND OTHER APPLICATION VITRIFIED CLAY PIPE: FOLLOW ASTM C 12.
"STANDARD RECOMMENDED PRACTICE FOR INSTALLING VITRIFIED CLAY PIPE LINES.

Pipe zone backfill

205

Plar **38**:

January 2011

Pipe zone backfill

1. GENERAL

A. Install the pipe in the center of the trench or no closer than 6-inches from the wall of the pipe to the wall of the trench.

2. PRODUCTS

- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
- B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches.
- C. Concrete: APWA Section 03 30 04.
- D. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
- E. Stabilization-Separation Geotextile: Moderate or high at CONTRACTOR's choice, APWA Section 31 05 19.

3. EXECUTION

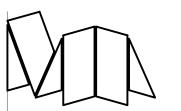
- A. Excavate the Pipe Zone: Width is measured at the pipe spring line and includes any necessary sheathing. Provide width recommended by pipe manufacturer. Follow manufacturer's recommendations when using trench boxes.
- B. Foundation Stabilization: Get ENGINEER's permission before installing common fill. Vibrate to stabilize. Installation of stabilization-separation geotextile will be required to separate backfill material and native subgrade materials if common fill cannot provide a working surface or prevent soils migration.
- provide a working surface or prevent soils n

 C. Base Course:
- Furnish untreated base course material unless specified otherwise by pipe
 manufacturer
- 2) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23
- 3) When using concrete, provide at least Class 2,000 per APWA Section 03 30 04.

 D. Pipe Zone: DO NOT USE sewer rock, pea gravel, or recycled RAP aggregate in the
- pipe zone. Water jetting is NOT allowed.
 1) Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26
- unless pipe manufacturer requires more stringent installation.Submission of quality control compaction test result data developed for the haunch zone may be requested by ENGINEER at any time. CONTRACTOR is
- to provide results of tests immediately upon request.

 E. Flowable Fill (when required and if allowed by pipe manufacturer):
- Place the controlled low strength material, APWA Section 31 05 15.
 Prevent pipe flotation by installing in lifts and providing pipe restraints as
- required by pipe manufacturer.

 3) Reset pipe to line and grade if pipe "floats" out of position.



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sma project no. 16—101

sma project name
POWDERCAT

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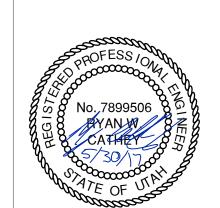
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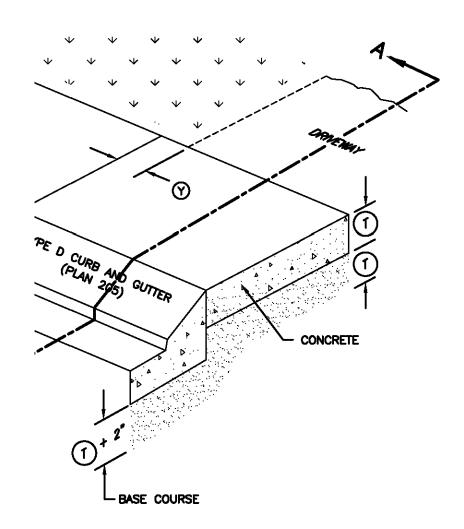
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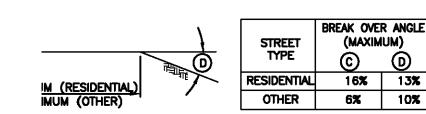


C5.00
MISC. DETAILS

N/

SUBMITTAL SE





REQUIRING SERVICE TRUCK ACCESS

STREET	BREAK OVE (MAXIM	
TYPE	A	₿
RESIDENTIAL	16%	12%
OTHER	6%	8%

TYPICAL DRIVEWAY APPROACH

	Plan
b driveway approach	216
43	

b driveway approach

is and slopes must be acceptable to the n may be changed at ENGINEER's discretion. ied in APWA Section 32 16 13.

ırse, APWA Section 32 11 23. Do not use gravel ER's permission. ick type F1 full depth, APWA Section 32 13 73. ction 03 30 04. If necessary, provide concrete that nan 7 days. Use caution; however, as concrete

op if air temperature exceeds 90 degrees F.

oxy coated, deformed, 60 ksi yield grade steel,

mbrane forming compound with fugitive dye (Type

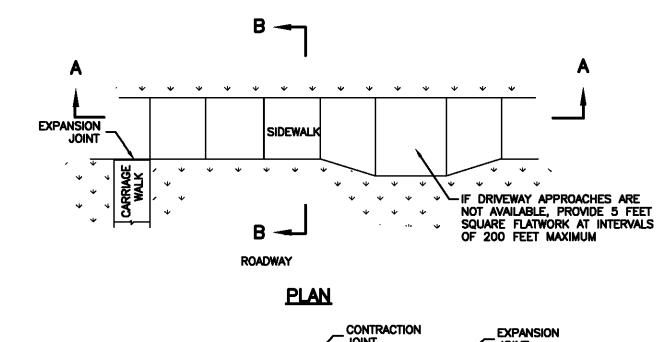
Section 32 05 10. Maximum lift thickness before g riding equipment or 6-inches when using hand 5 percent or greater relative to a modified proctor

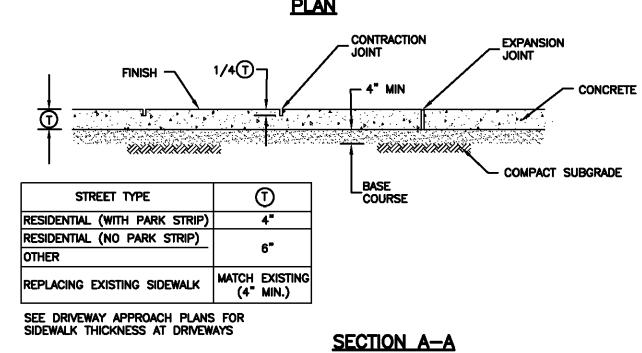
ion 03 30 10.

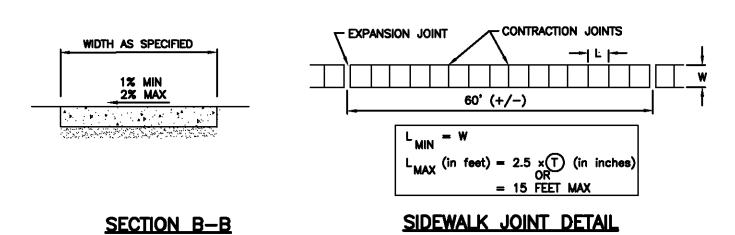
, full depth, with top of filler set flush with concrete

II, 1/8-inch wide or 1/4 slab thickness if the slab is aximum length to width ratio for non-square anel length (in feet) is 1.5 times the slab thickness

Apply a broom finish. Apply a curing agent. ncrete from deicing chemicals during cure. Repair f necessary, fill flow-line with water to verify.







	Sidewalk	Plan 23
2009	57	

Sidewalk

GENERAL

A. Variance from specified dimensions and slopes must be acceptable to the ENGINEER. System configuration may be changed at ENGINEER's discretion. B. Additional requirements are specified in APWA Section 32 16 13.

PRODUCTS

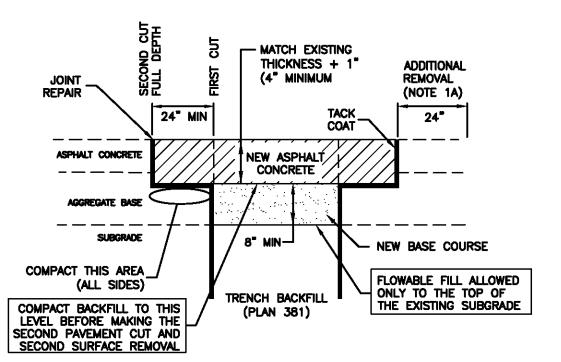
- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
- B. Expansion Joint Filler: 1/2-inch thick type F1 full depth, APWA Section 32 13 73. C. Concrete: Class 4000, APWA Section 03 30 04. If necessary, provide concrete that achieves design strength in less than 7 days. Use caution; however, as concrete crazing (spider cracks) may develop if air temperature exceeds 90 degrees F.
- D. Concrete Curing Agent: Clear membrane forming compound with fugitive dye (Type ID Class A), APWA Section 03 39 00.

EXECUTION

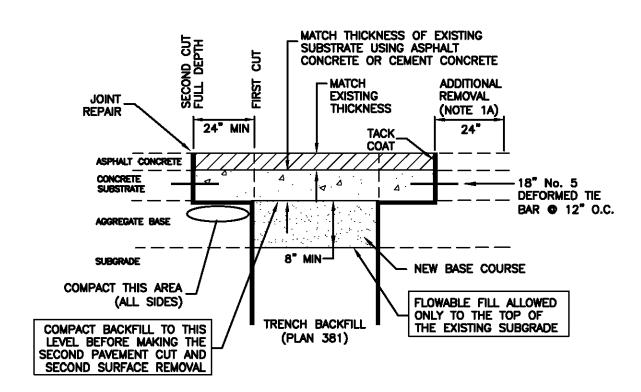
- A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
- B. Concrete Placement: APWA Section 03 30 10.
- 1) Install expansion joints vertical, full depth, with top of filler set flush with concrete surface.
- 2) Install contraction joints vertical, 1/8-inch wide or 1/4 slab thickness if the slab is greater than 8-inches thick. Maximum length to width ratio for non-square panels is 1.5 to 1. Maximum panel length (in feet) is 1.5 times the slab thickness
- 3) Provide 1/2-inch radius edges. Apply a broom finish. Apply a curing agent.

SHALLOW EXCAVATION

(LESS THAN 48 INCHES FROM PAVEMENT SURFACE TO BOTTOM OF EXCAVATION)



ASPHALT RESTORATION



COMPOSITE RESTORATION

Asphalt concrete T-patch

Sheet 1 of 2

Asphalt concrete T-patch

GENERAL

December 2010

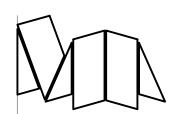
A. If a saw cut in the direction of vehicular travel is in a wheel path, consult ENGINEER for directions on removing additional pavement other than the amount shown on the drawing.

2. PRODUCTS

- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a
- base course without ENGINEER's permission.
- B. Flowable Fill: Target is 60 psi in 28 days with 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
- C. Reinforcement. No. 5, Galvanized or epoxy coated, deformed, 60 ksi yield grade steel,
- ASTM A 615.
- D. Concrete: Class 4000, APWA Section 03 30 04.
- E. Tack Coat: APWA Section 32 12 13.13.
- F. Asphalt Concrete. APWA Section 32 12 05.
 - 1) Warm Weather Patch: AC-20-DM-1/2, unless indicated otherwise. 2) Cold Weather Patch: Modified MC-250-FM-1 as indicated in APWA Section 33 05 25.

3. EXECUTION

- A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26
- B. Flowable Fill: Cure to initial set before placing aggregate base or asphalt pavement. Use in excavations that are too narrow to receive compaction equipment.
- C. Tack Coat. Clean all horizontal and vertical surfaces. Apply full coverage.
- D. Asphalt Pavement. Match existing thickness plus 1 inch but not More than 6-inches in residential thoroughfares or 8-inches non residential thoroughfares. Install in lifts no greater than 3-inches after compaction. Compact to 94 percent of ASTM D 2041 (Rice density) plus or minus 2 percent. If asphalt pavement is substituted for concrete substrate, omit rebar and provide 1.25 inches of pavement for each 1 inch of concrete substrate substituted.
- E. Reinforcement. Required if thickness of existing Portland-cement concrete substrate is 6inches or greater. Not required if (1) less than 6-inches thick, (2) if existing concrete is deteriorating, (3) if excavation is less than 3 feet square, or (4) if asphalt pavement is
- substituted for Portland-cement concrete substrate. F. Concrete Substrate. Cure to initial set before placing new asphalt concrete patch.
- G. Joint Repair: If a crack occurs at a connection to an existing pavement or at any street fixture, flush seal the crack per Plan 265.
- H. Patch Repair: Repair patch if any of the following conditions within the patch occur. 1) Pavement surface distortion exceeds 1/4-inch deviation in 10 feet. Repair option: Plane off surface distortions. Coat planed surfaces with a cationic or anionic emulsion that complies with APWA Section 32 12 03.
- 2) Cracks at least 1-foot long and 1/4-inch wide occur more often than 1 in 10 square feet. Repair option: Crack seal.
- 3) Asphalt raveling is greater than 1 square foot per 100 square feet. Repair option: Mill and inlay.



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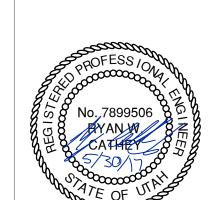
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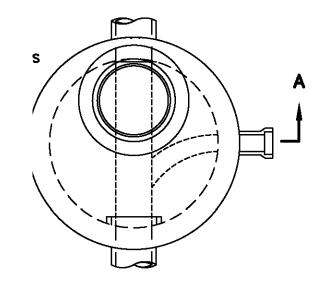
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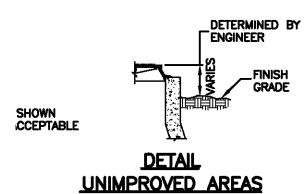
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PLAN (ECCENTRIC RISER)



SERS

ER 1/3 OF PIPE AFTER COMPLETED. TAR SHELF WITH SLOPE

COUPLING MIN. 2'-0" FROM ANY STRUCTURE TRENCH BACKFILL 4" PIPE-_NO HUB NO-HUB COUPLING GROUT AROUND —CONNECTION TO SEWER MAIN SEWER LATERAL -CONNECTION TO BE 45" TO THE CENTER OF SEWER MAIN GRADE REQUIREMENTS
4" PIPE - 2.0% MIN. 6" PIPE - 1.0% MIN. * SEWER SADDLE PER AGENCY REQUIREMENTS — PIPE ZONE (PLAN 382) * IN HIGH WATER TABLE BOWL WAX REQUIRED

411

hole

Refer to construction drawings for f existing piping when engineering

liameter.

ger, or when 3 or more pipes intersect

Section 32 11 23. Do not use gravel

. Maximum particle size 2-inches.

steel. ASTM A 615. **\STM C 1329.** or high at CONTRACTOR's choice,

ermission to use a sewer rock or a

stabilize an unstable foundation. 1 23. Maximum lift thickness is 8percent or greater relative to a covers over the top of pipe in e Plan 412. all plastic pipes when connecting

place with stainless steel bands. I riser joints. Finish with grout. nt is more than 1'-0", remove the cone ion with the appropriate manhole or plastic form to make frame and lid

nterior of cones, shafts, and rings. accepted.

shaft. Pea gravel and recycled RAP NOT allowed. Maximum lift ipaction is 95 percent or greater ection 31 23 26.



Sewer lateral connection

1. GENERAL

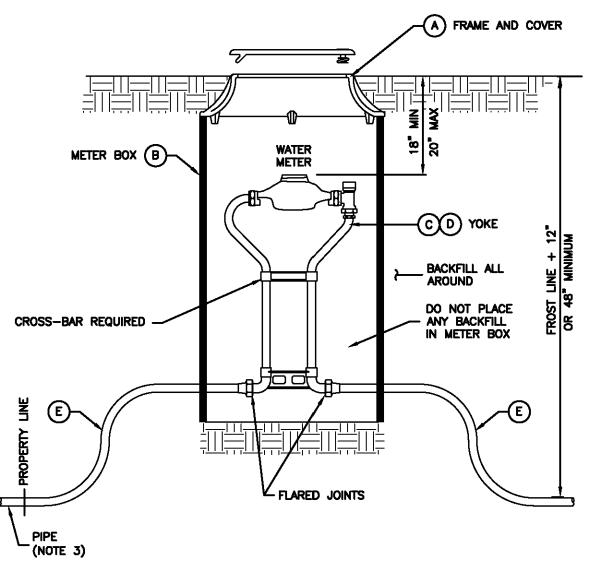
- A. Before installation, secure acceptance by ENGINEER for all pipe, fittings, and
- B. Before backfilling, secure inspection of installation by ENGINEER. Give at least 24
- C. Verify if CONTRACTOR or agency is to install the wye.

2. PRODUCTS

- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel
- as a base course without ENGINEER's permission.
- B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches. C. Provide agency approved wye or tee with appropriate donut.
- D. Stainless steel straps required.

3. EXECUTION

- A. Tape wrap pipe as required by soil conditions.
- B. Remove core plug from sewer main. Do not break into sewer main to make connection.
- C. Base Course and Backfill Placement: Maximum lift thickness is 8-inches before compaction. Compaction is 95 percent or greater relative to a standard proctor density, APWA Section 31 23 26.



SECTION

		LEGEND	
No.	*	ITEM	DESCRIPTION
\odot		FRAME AND COVER	CAST IRON COVER (grass) DUCTILE IRON COVER (driveway)
B		METER BOX (18" TO 21" DIAMETER) (30" TO 36" DEEP)	CORRUGATED PE, PVC, CMP OR MATERIAL ACCEPTABLE TO AGENCY
(O)		3/4" METER YOKE	OPTIONAL BACKFLOW PROTECTION PER AGENCY REQUIREMENTS
(1" METER YOKE	OPTIONAL BACKFLOW PROTECTION PER AGENCY REQUIREMENTS
Œ		COPPER PIPE	TYPE K (SOFT)
	*	FURNISHED BY UTILITY AGENCY	

3/4" and 1" meter August 2001 239

521

3/4" and 1" meter

1. GENERAL

- A. In street surfaces or other vehicular traffic areas (like driveway approaches), Install the same type of meter box as required for 1 1/2" and 2" service meters. See Plan
- B. Before backfilling, secure inspection of installation by ENGINEER.

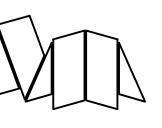
2. PRODUCTS

- A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER's permission.
- B. Backfill: Common fill, APWA Section 31 05 13. Maximum particle size 2-inches. C. Castings: Grey iron class 35 minimum per ASTM A 48, coated with asphalt based paint or better.

3. EXECUTION

A. Meter Placement:

- 1) All meters are to be installed in the park strip or within 7 feet of the property line
- 2) Do not install meters under driveway approaches, sidewalks, or curb and gutter.
- B. Meter Box: Set box so grade of the frame and cover matches the grade of the surrounding surface.
- C. Pipe Outside of Right-of-Way: Coordinate with utility agency or adjacent property owner for type of pipe to be used outside of right-of-way.
- D. Inspection: Before backfilling around meter box, secure inspection of installation by
- E. Base Course and Backfill Placement: Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26. Maximum lift thickness before compaction is 8-inches.



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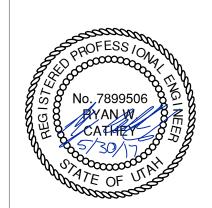
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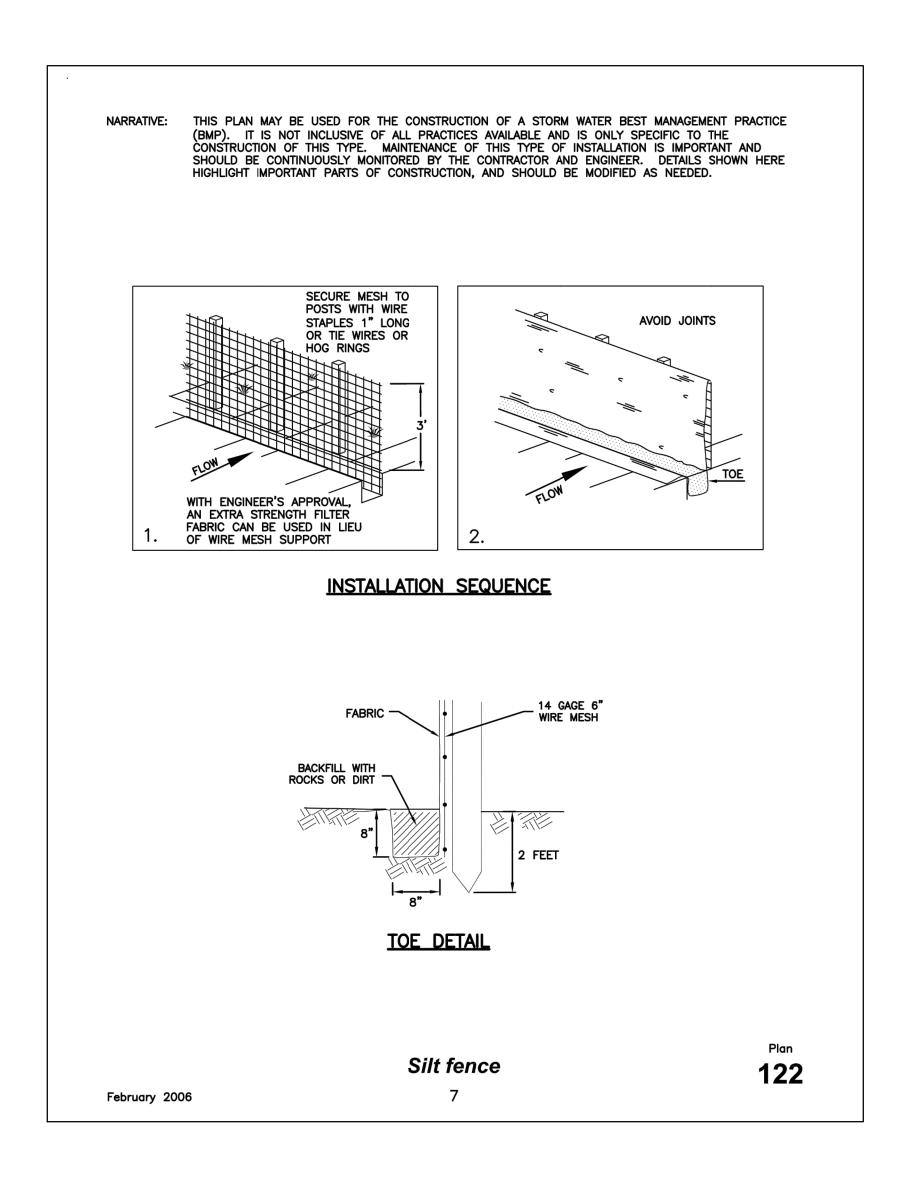
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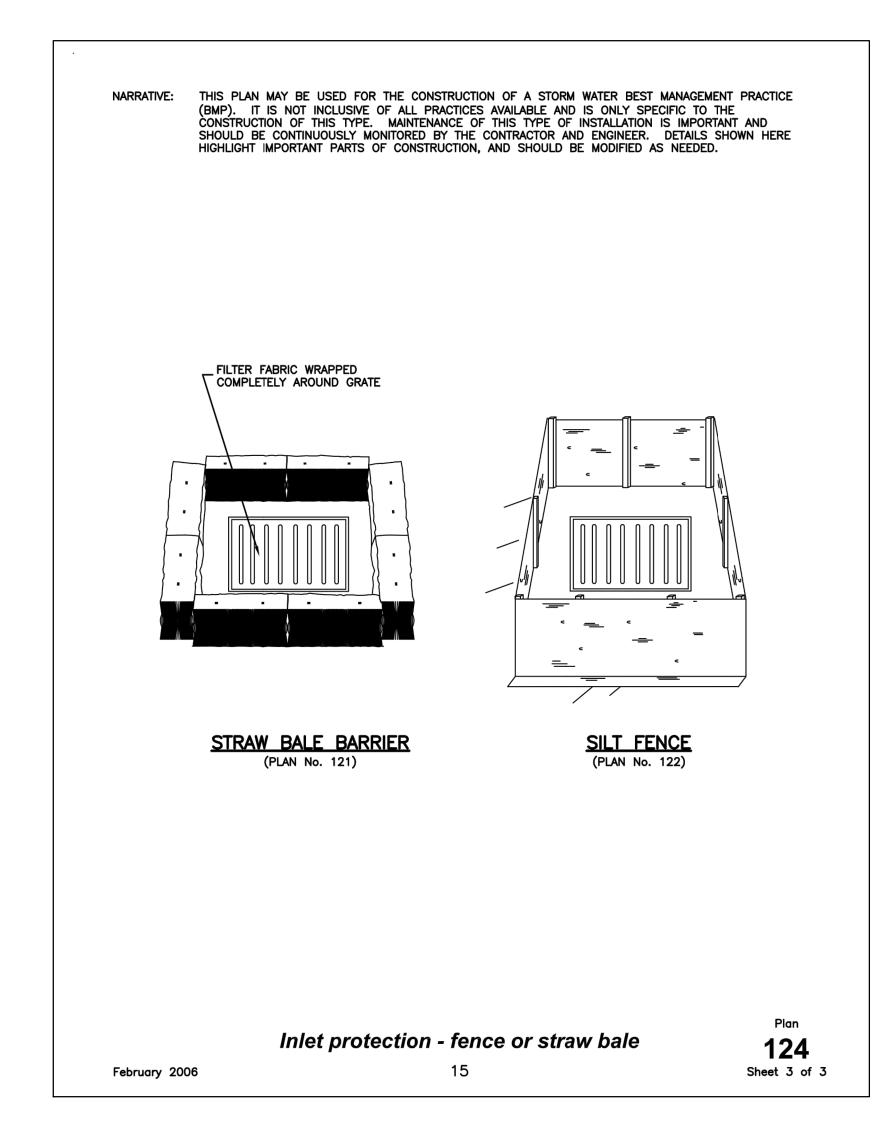
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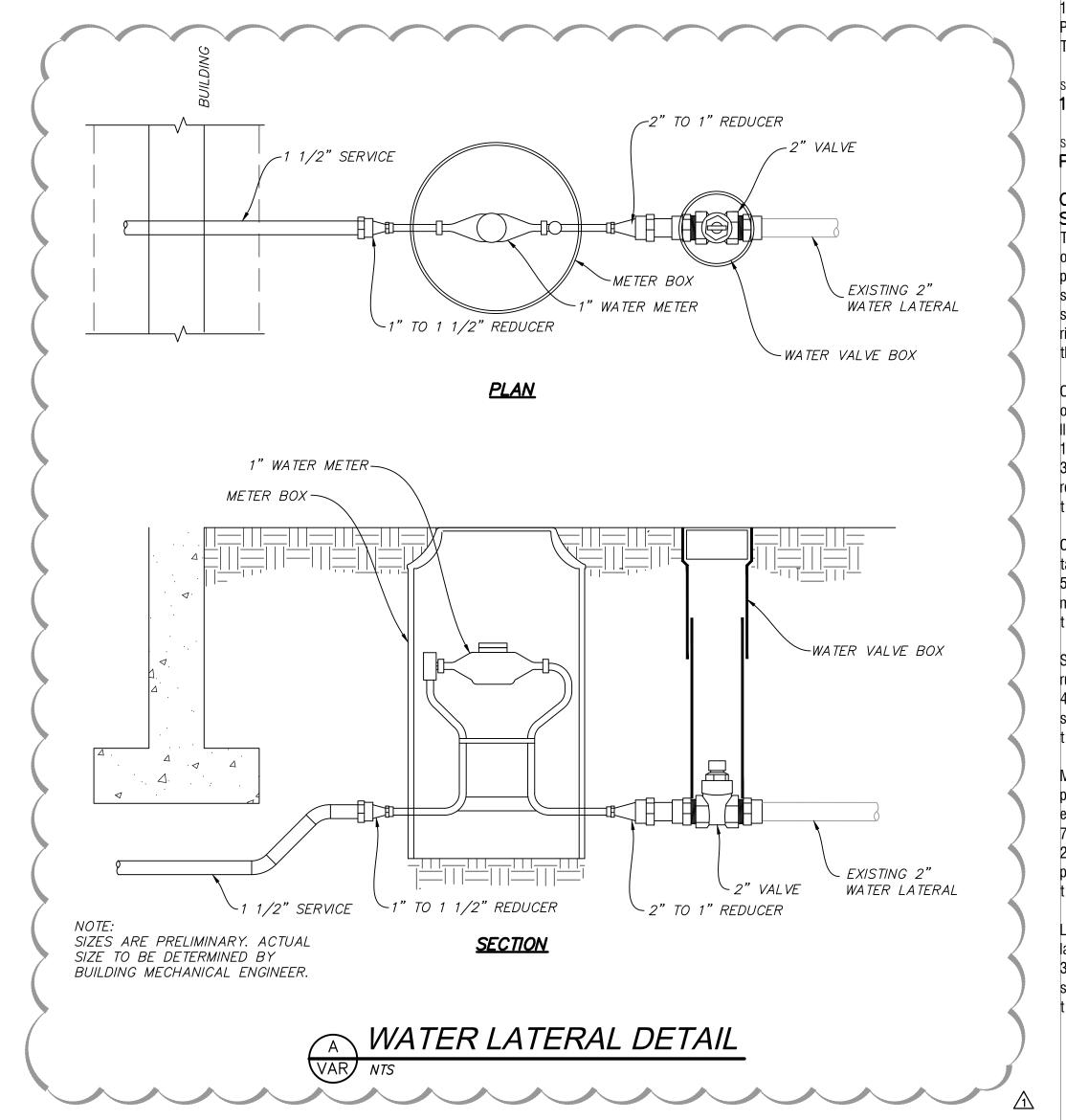


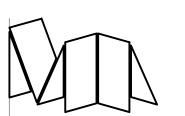
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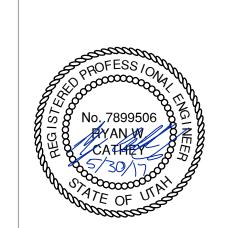
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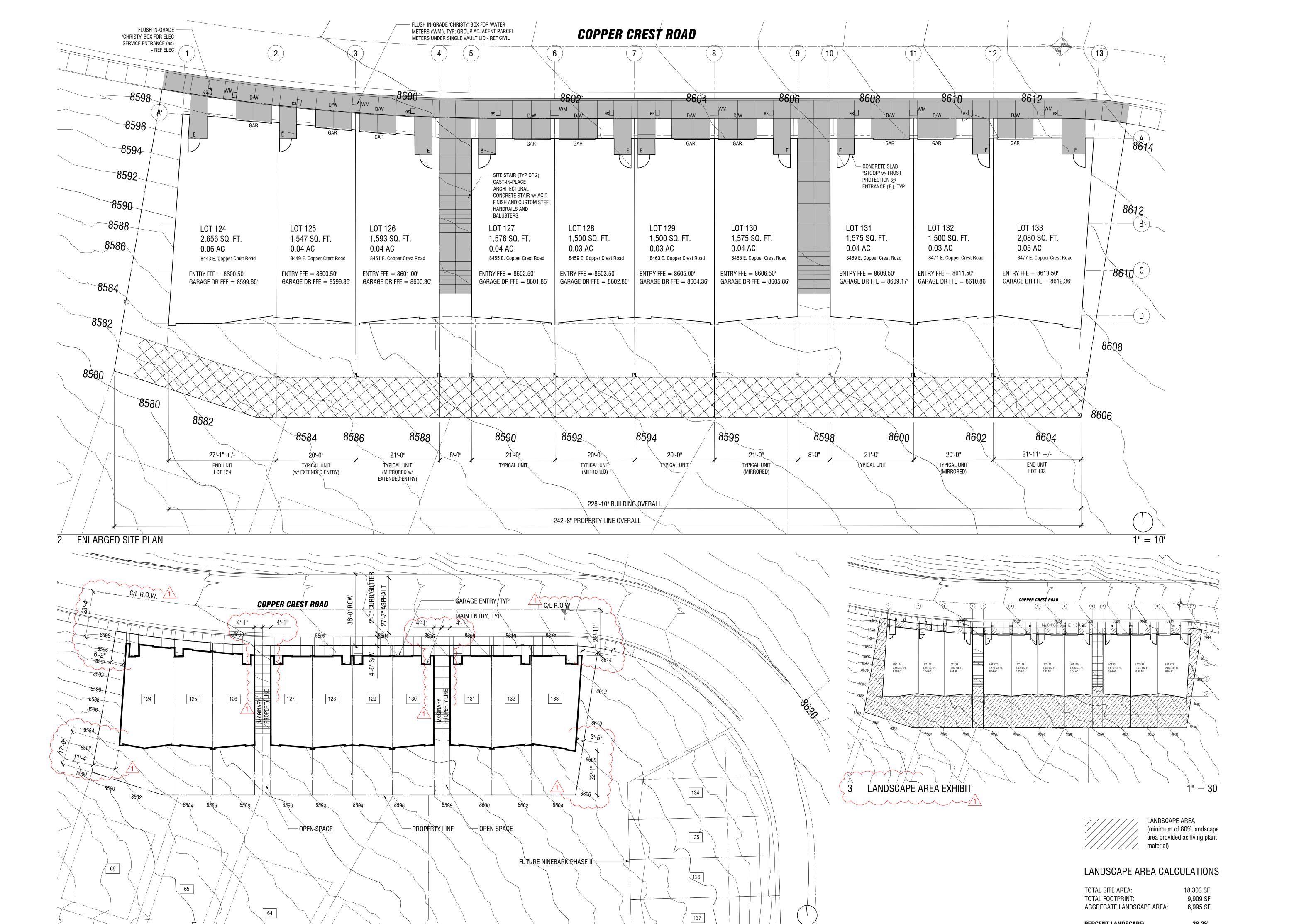
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c5.03
EROSION
CONTROL
DETAILS

N/A scale

SUBMITTAL SET phase / rev



SITE PLAN

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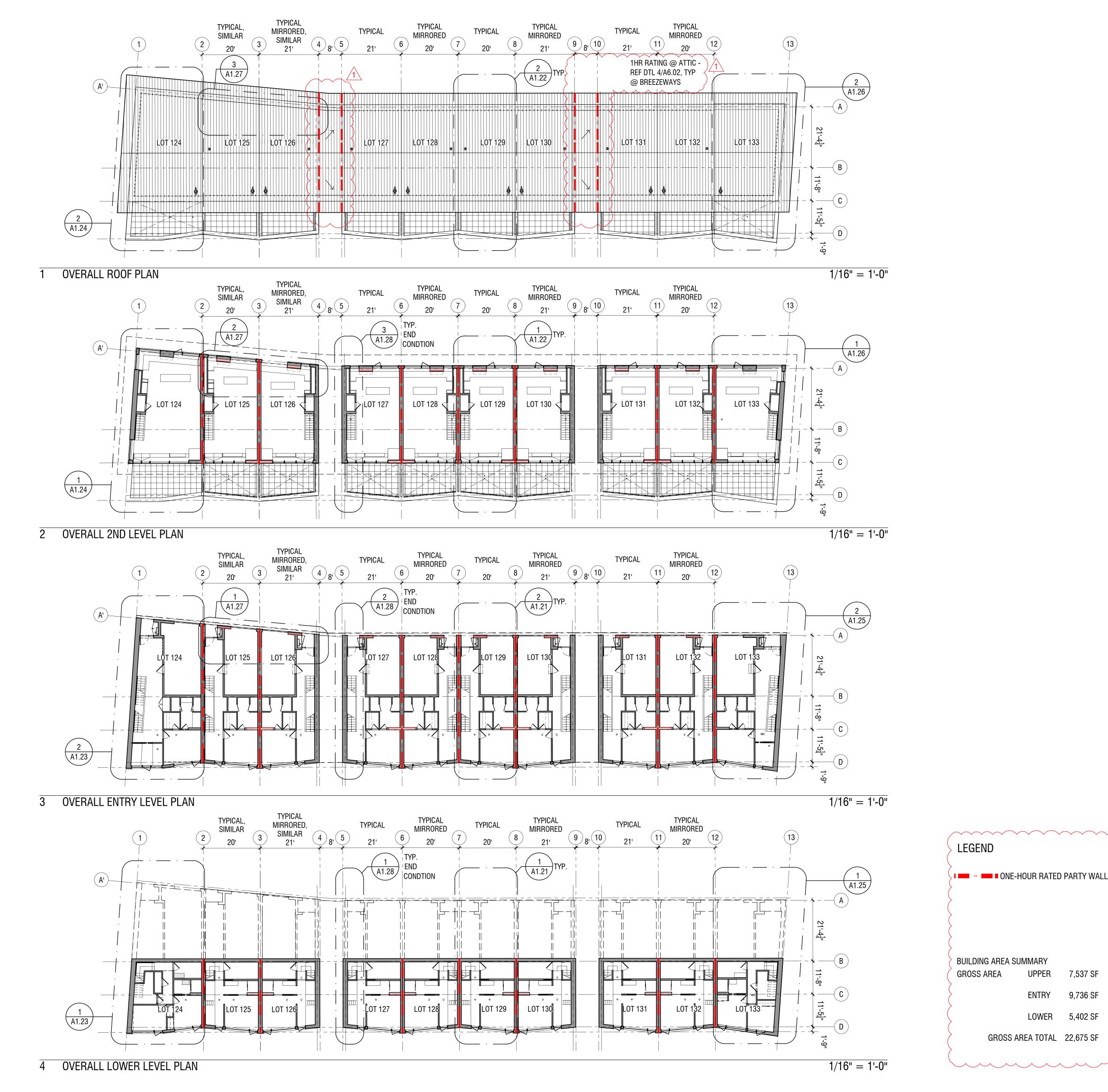
as noted scale

PERCENT LANDSCAPE:

38.2%



PERMIT SET phase / rev **2017.06.01** date



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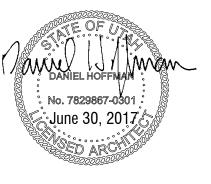
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as noted scale

UPPER 7,537 SF

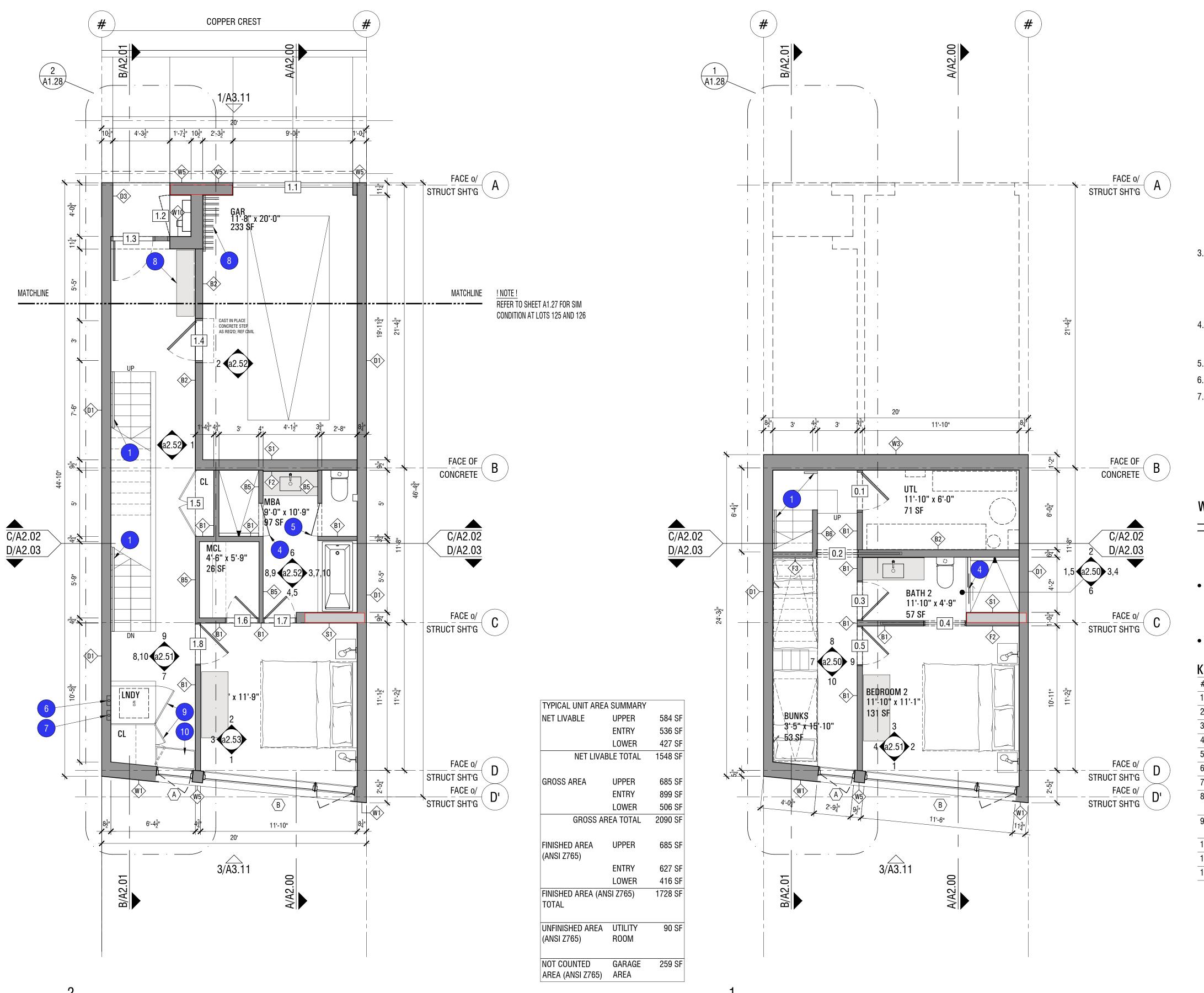
LOWER

GROSS AREA TOTAL 22,675 SF

9,736 SF

5,402 SF

PERMIT SET phase / rev **2017.06.30** date



LOWER LEVEL FLOOR PLAN

1/4" = 1'-0"

ENTRY LEVEL FLOOR PLAN

1/4" = 1'-0"

GENERAL PLAN NOTES

1. Refer to general information sheet for general notes, abbreviations, symbols, legends and

2. General dimensioning requirements:

- a. All dimensions from existing structures are from face of masonry/concrete wall, or face of finish, typical unless noted otherwise (u.n.o.).
- b. All dimensions relative to existing conditions shall be verified in field, typical.
- c. All dimensions to new exterior work are to face of structural sheathing / face of concrete, typical u.n.o.
- d. All dimensions to new interior walls are to face of finish, typical u.n.o. All dimensions to columns are to center of column, u.n.o.
- e. All dimensions to electrical and plumbing fixtures, appliances, and equipment are to centerline of fixture, typical u.n.o.
- f. Dimensions to window walls are to finished opening / outside face of window jamb, not rough opening, u.n.o.; refer to window wall schedule for additional dimensional requirements.
- g. Dimensions to doors are to door slab, not rough opening, u.n.o.; refer to door schedule for frame size and additional dimensional requirements. Where jamb return is shown, but no dimension is provided, door is to be located 4" from face of adjacent wall to edge of frame.
- h. All datum elevations are from FFE, not subfloor, u.n.o.
- i. All dimensions to floor outlets, or boxes, are subject to field coordination. All locations provided are diagrammatic until field-located with Architect and Owner.
- 3. All partitions are full height to underside of structural roof or floor sheathing. Walls which also coincide with structural walls shall be as per the structural framing requirements.
 - a. Walls above doors shall match wall type for adjacent wall, typical u.n.o.
- b. Walls above and below windows shall be as noted on drawings. Refer to plans for wall tags, and to wall sections and details.
- 4. Provide additional layers of wood sheathing and/or gypsum wall board (rated where required) as necessary to maintain finish dimensions, and to ensure wall surfaces are flush where structural framing and sheathing are not continuous.
- Refer to door and window wall schedule for general door and glazing requirements.
- Refer to finish schedule / legends.
- 7. Confirm w/ Owner for A/V, telecommunications, fire alarm, and security documents (by others) for all related equipment including, but not limited to, TVs, projectors, projection screens, speakers, a/v, data, fire alarm, and security specific devices, and cabling. All conduit, floor boxes and junction boxes are part of the work as shown and shall be coordinated with the Architect, Owner, and Owner's specialty contractor(s) prior to commencing work. All systems by Owner shall be coordinated by the General Contractor and submitted for review immediately following the notice to proceed so as not to delay the progress of work.

WALL LEGEND

WOOD FRAME WALL

WALL TYPE

SHEAR WALL

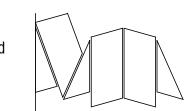
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interior, and W1 typ exterior and verify with Architect • Nominal 2x interior (non-loadbearing) wood framing @ 24" o.c. max., or as noted. At walls with tile, studs to be @ 16" o.c. max. Plate size to match stud size except where noted. All load-bearing walls to be framed as per structural drawings. Wood in contact with concrete to be pressure-treated, provide sill sealer below all exterior wall sill plates.

• Fill all stud cavities with insulation - thermal insulation @ exterior walls; acoustic insulation @ interior walls. Refer to wall types and specifications for types and configurations.

KENNIOTEC

KEY	NOTES	
#	DESCRIPTION	REF. DTL/SHT
1	STAIR HANDRAIL / GUARDRAIL	3,4/A2.10
2	CANTILEVER GLASS GUARDRAIL	2/A5.07
3	KITCHEN ISLAND w/ CABINETS BELOW	
4	GLASS SHOWER ENCLOSURE & DR	
5	GLASS WATER CLOSET ENCLOSURE & DR	
6	RECESSED DRYERBOX	REF. MECH.
7	RECESSED WASHER BOX	REF. PLBG.
8	STORAGE AND SPECIALTY EQUIP (SKI RACK, BIKE RACK, BOOT DRYERS)	REF. SPECS
9	FULL HEIGHT MILLWORK/CABINETRY DOORS AND HARDWARE;	REF. MLWK. SPECS REF. INT ELEV.
10	MILLWORK BENCH WITH OPERABLE LID, CUSHION BY OWNER	REF. MLWK. SPECS
11	SIMILAR BUNK CONDITION	A5.12
12	MILLWORK	REF. MLWK. SPECS



STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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> No. 7829867-0301 ູ້່. June 1, 2017 ໍ່

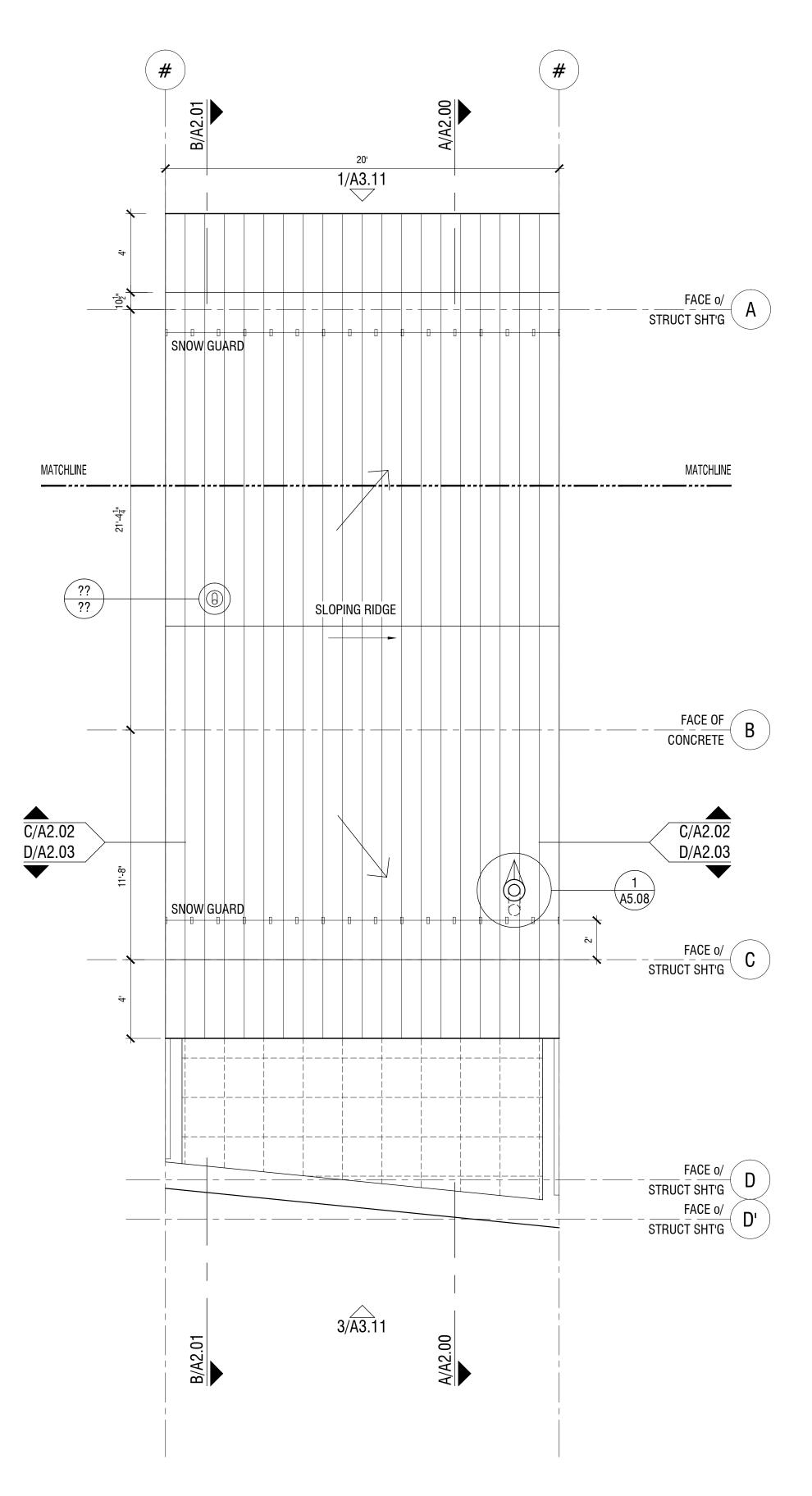
PLAN REVIEW ACCEPTANCE FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOV MECHANICAL MPLUMBING
MELECTRICAL MENERGY

□ACCESSIBILITY □FIRE PLAN REVIEW ACCEPTANCE OF DOCUMENT: DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS. SY: MEM WEST COAST CODE CONSULTANTS, INC

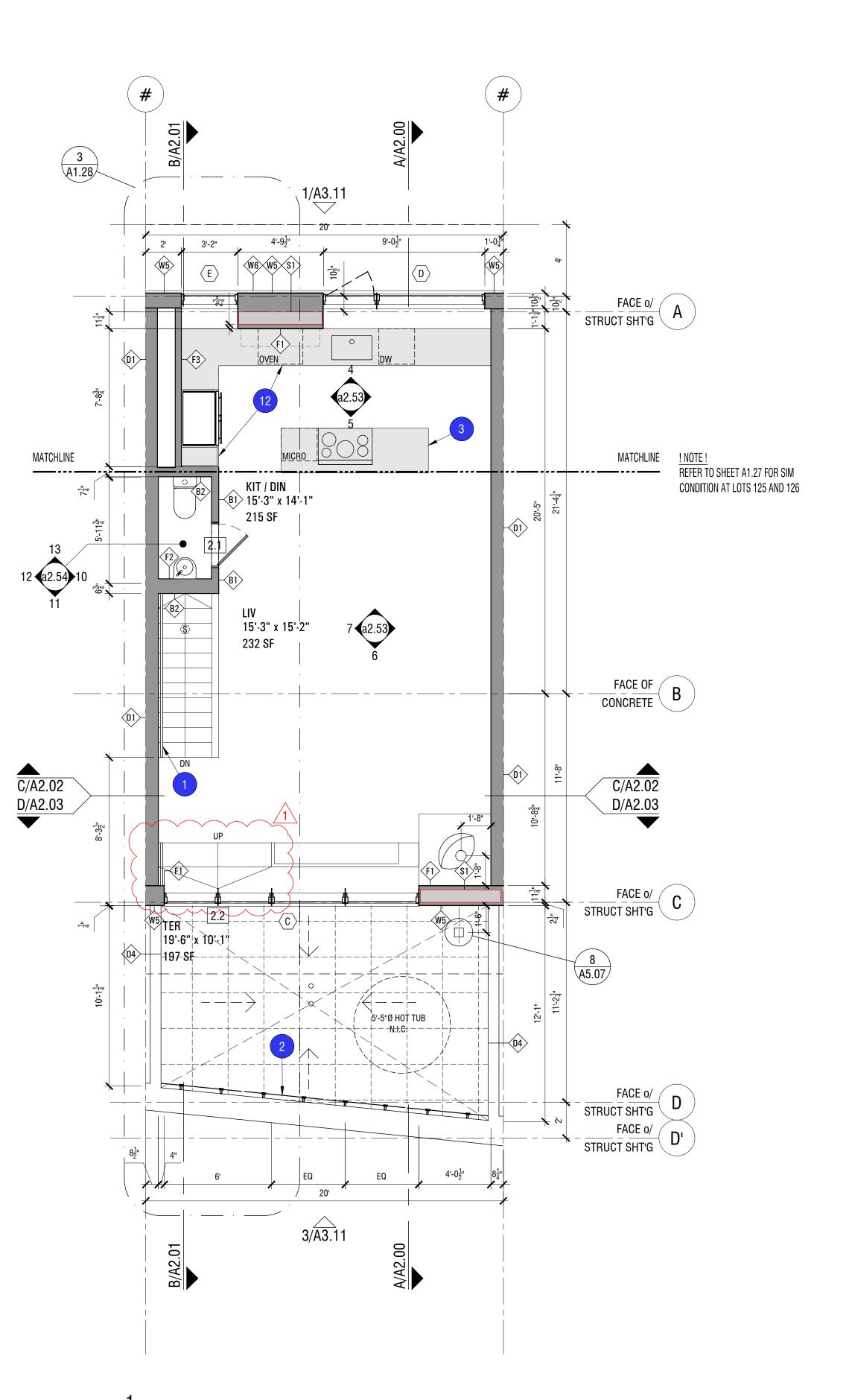
ENTRY AND LOWER LEVEL FLOOR PLANS

1/4" = 1'-0"

PERMIT SET phase / rev



ROOF FLOOR PLAN 1/4" = 1'-0"



UPPER LEVEL FLOOR PLAN 1/4" = 1'-0"

GENERAL PLAN NOTES

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- d. All dimensions to new interior walls are to face of finish, typical u.n.o. All dimensions to columns are to center of column, u.n.o.
- e. All dimensions to electrical and plumbing fixtures, appliances, and equipment are to centerline of fixture, typical u.n.o.
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- h. All datum elevations are from FFE, not subfloor, u.n.o.
- i. All dimensions to floor outlets, or boxes, are subject to field coordination. All locations provided are diagrammatic until field-located with Architect and Owner.
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 - a. Walls above doors shall match wall type for adjacent wall, typical u.n.o.
- b. Walls above and below windows shall be as noted on drawings. Refer to plans for wall tags, and to wall sections and details.
- 4. Provide additional layers of wood sheathing and/or gypsum wall board (rated where required) as necessary to maintain finish dimensions, and to ensure wall surfaces are flush where structural framing and sheathing are not continuous.
- Refer to door and window wall schedule for general door and glazing requirements.
- Refer to finish schedule / legends.
- 7. Confirm w/ Owner for A/V, telecommunications, fire alarm, and security documents (by others) for all related equipment including, but not limited to, TVs, projectors, projection screens, speakers, a/v, data, fire alarm, and security specific devices, and cabling. All conduit, floor boxes and junction boxes are part of the work as shown and shall be coordinated with the Architect, Owner, and Owner's specialty contractor(s) prior to commencing work. All systems by Owner shall be coordinated by the General Contractor and submitted for review immediately following the notice to proceed so as not to delay the progress of work.

WALL LEGEND

WOOD FRAME WALL

REF. DTL/SHT

SHEAR WALL

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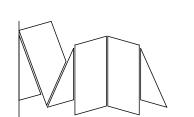
KEYNOTES

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GENERAL ROOF PLAN NOTES

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- 3. Vent pipes and all other roof penetrations shall be planned carefully prior to rough-in. Consolidate, size, and locate as inconspicuously as possible, with heights as per code-minimum requirements - provide fabricated metal shroud to screen penetrations from view; match roofing material.
- 4. At sloped metal roofs, wrap and/or clad non-metal items to match material and finish of roofing where metal shroud cannot be provided, such as chimneys.



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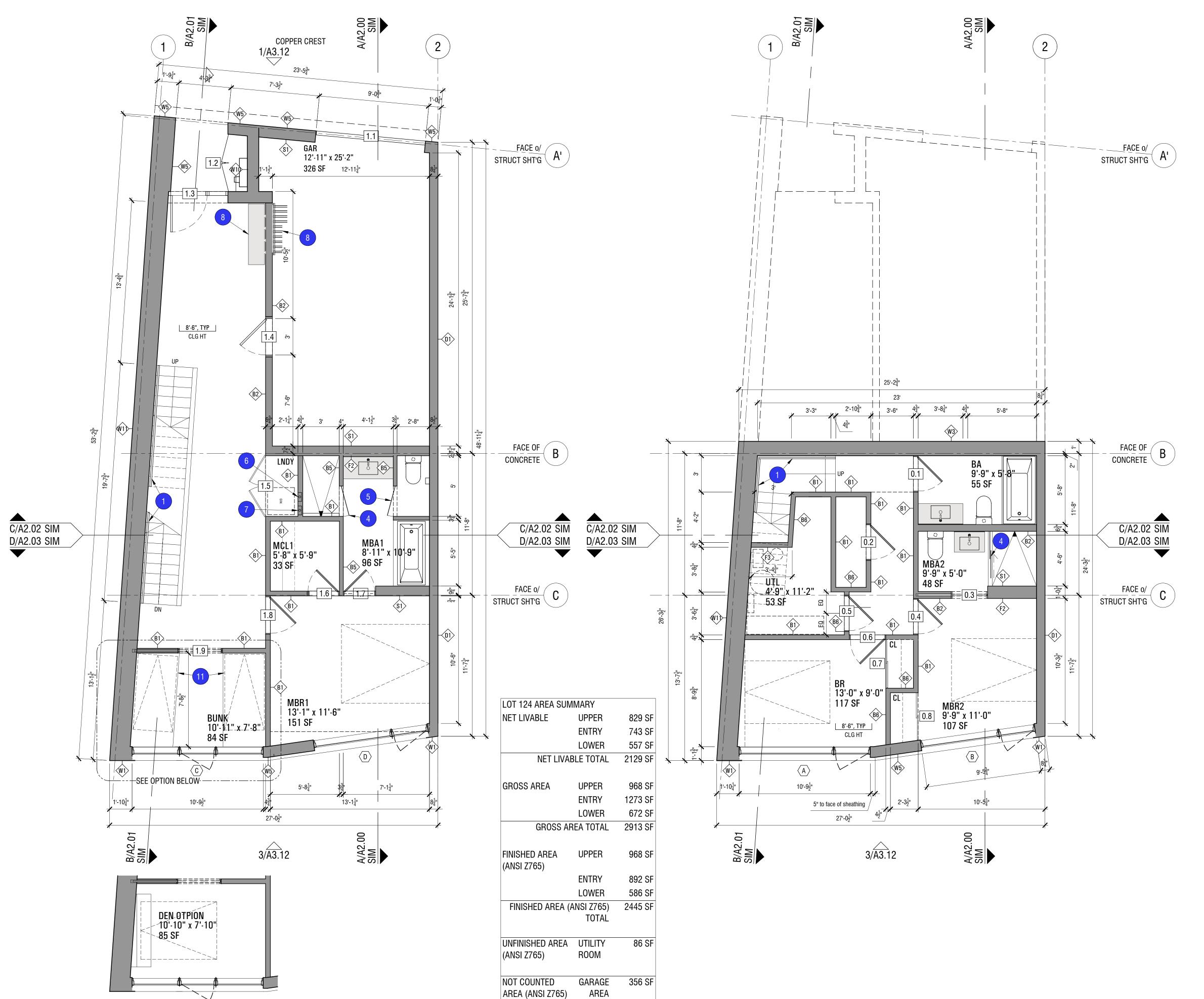






1/4" = 1'-0"





1 LOWER LEVEL FLOOR PLAN

1/4" = 1'-0"

2 ENTRY LEVEL FLOOR PLAN

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WALL LEGEND

WOOD FRAME WALL

WALL TYPE

where no tag is provided, bid wall types B2 typ

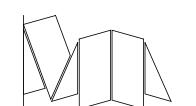
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LANDSCAPE angvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295

SHEAR WALL

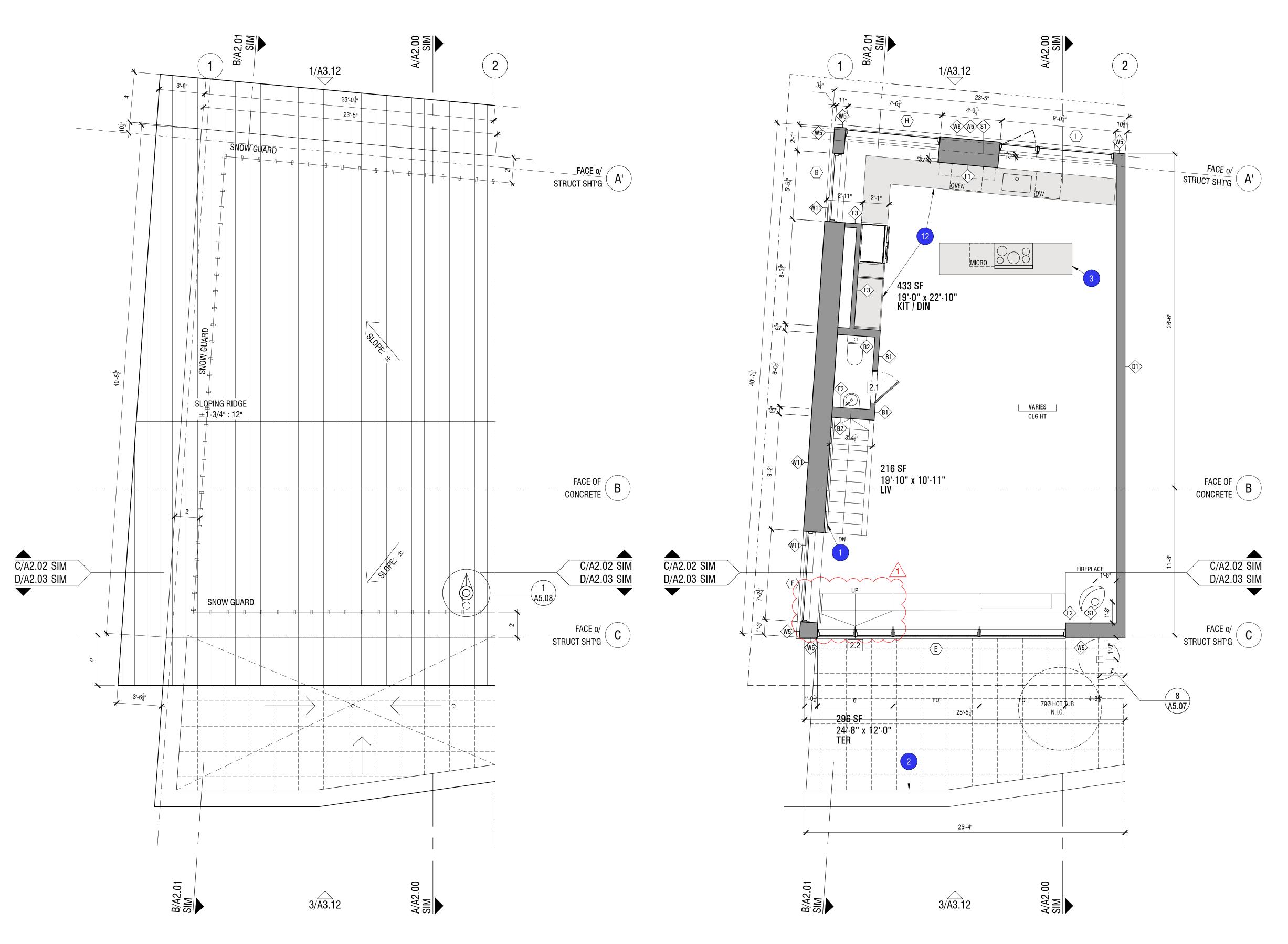


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LOWER LEVEL FLOOR PLANS

1/4" = 1'-0"

PERMIT SET phase / rev



ROOF FLOOR PLAN 1/4" = 1'-0"

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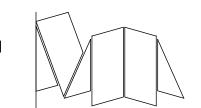
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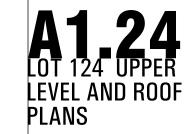
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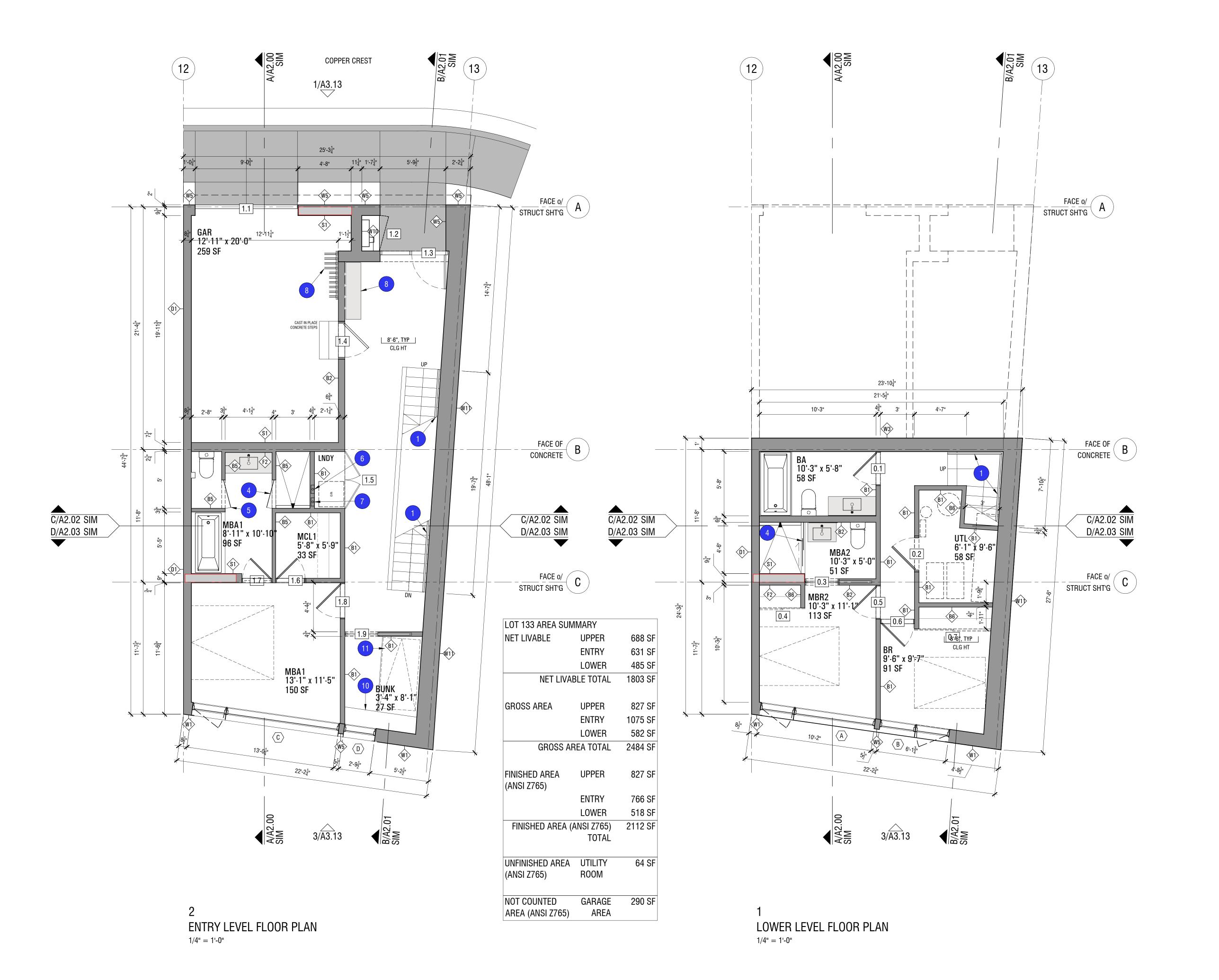




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PERMIT SET phase / rev **2017.06.01** date



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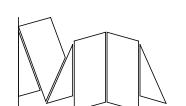
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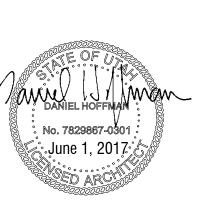
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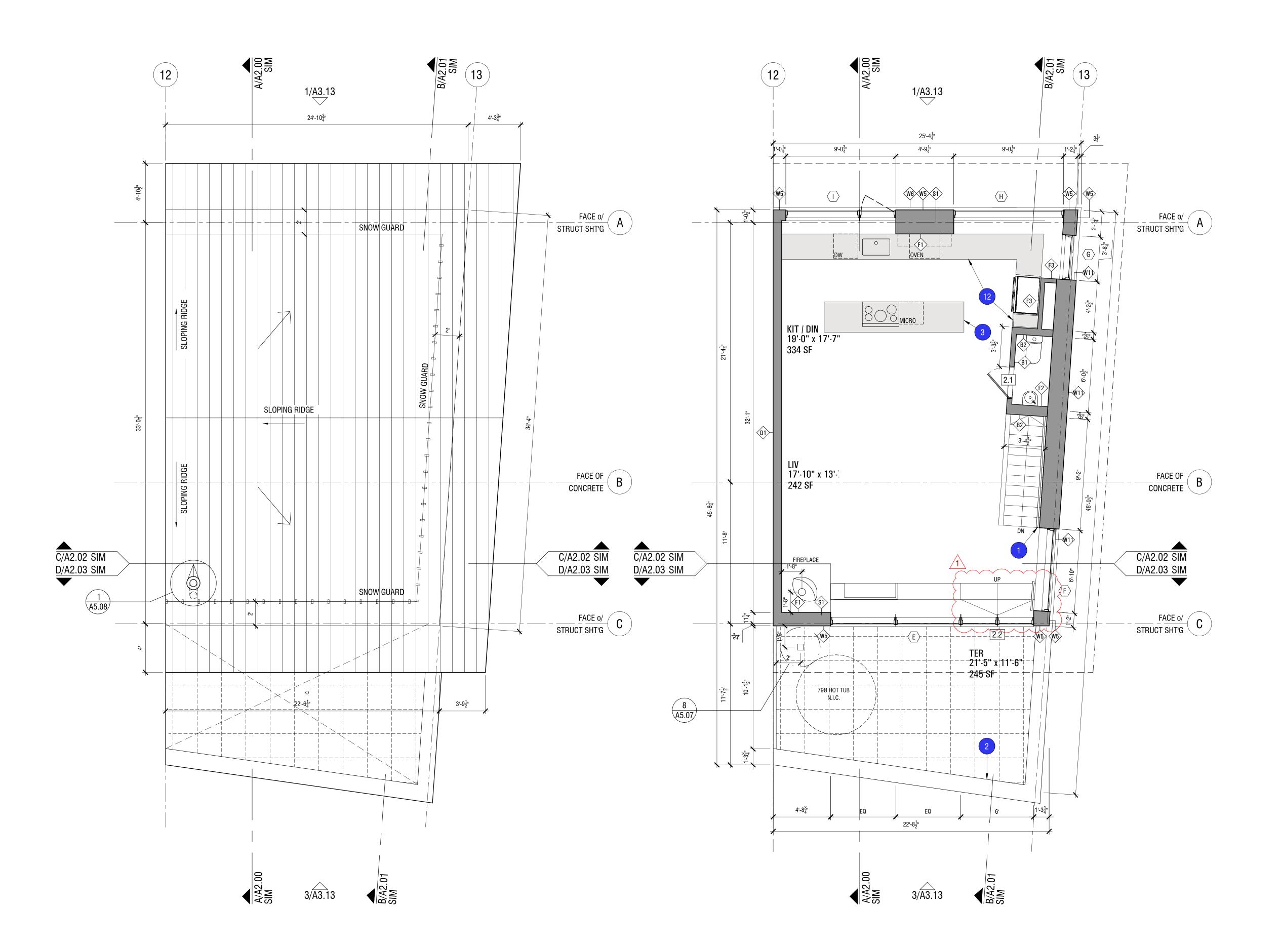


PLAN REVIEW ACCEPTANCE FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOV MECHANICAL PLUMBING
MELECTRICAL ENERGY
ACCESSIBILITY FIRE PLAN REVIEW ACCEPTANCE OF DOCUMENT: DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS. SY: MEM WEST COAST CODE CONSULTANTS, INC

LOWER LEVEL FLOOR PLANS

1/4" = 1'-0"

PERMIT SET phase / rev



ROOF FLOOR PLAN 1/4" = 1'-0"

UPPER LEVEL FLOOR PLAN 1/4" = 1'-0"

GENERAL PLAN NOTES

- 1. Refer to general information sheet for general notes, abbreviations, symbols, legends and
- 2. General dimensioning requirements:
- a. All dimensions from existing structures are from face of masonry/concrete wall, or face of finish, typical unless noted otherwise (u.n.o.).
- b. All dimensions relative to existing conditions shall be verified in field, typical.
- c. All dimensions to new exterior work are to face of structural sheathing / face of concrete, typical u.n.o.
- d. All dimensions to new interior walls are to face of finish, typical u.n.o. All dimensions to columns are to center of column, u.n.o.
- e. All dimensions to electrical and plumbing fixtures, appliances, and equipment are to centerline of fixture, typical u.n.o.
- f. Dimensions to window walls are to finished opening / outside face of window jamb, not rough opening, u.n.o.; refer to window wall schedule for additional dimensional
- g. Dimensions to doors are to door slab, not rough opening, u.n.o.; refer to door schedule for frame size and additional dimensional requirements. Where jamb return is shown, but no dimension is provided, door is to be located 4" from face of adjacent wall to edge of frame.
- h. All datum elevations are from FFE, not subfloor, u.n.o.
- i. All dimensions to floor outlets, or boxes, are subject to field coordination. All locations provided are diagrammatic until field-located with Architect and Owner.
- 3. All partitions are full height to underside of structural roof or floor sheathing. Walls which also coincide with structural walls shall be as per the structural framing requirements.
- a. Walls above doors shall match wall type for adjacent wall, typical u.n.o.
- b. Walls above and below windows shall be as noted on drawings. Refer to plans for wall tags, and to wall sections and details.
- 4. Provide additional layers of wood sheathing and/or gypsum wall board (rated where required) as necessary to maintain finish dimensions, and to ensure wall surfaces are flush where structural framing and sheathing are not continuous.
- Refer to door and window wall schedule for general door and glazing requirements.
- Refer to finish schedule / legends.
- Confirm w/ Owner for A/V, telecommunications, fire alarm, and security documents (by others) for all related equipment including, but not limited to, TVs, projectors, projection screens, speakers, a/v, data, fire alarm, and security specific devices, and cabling. All conduit, floor boxes and junction boxes are part of the work as shown and shall be coordinated with the Architect, Owner, and Owner's specialty contractor(s) prior to commencing work. All systems by Owner shall be coordinated by the General Contractor and submitted for review immediately following the notice to proceed so as not to delay the progress of work.

WALL LEGEND

WOOD FRAME WALL

SHEAR WALL

where no tag is provided, bid wall types B2 typ interior, and W1 typ exterior and verify with Architect

- Nominal 2x interior (non-loadbearing) wood framing @ 24" o.c. max., or as noted. At walls with tile, studs to be @ 16" o.c. max. Plate size to match stud size except where noted. All load-bearing walls to be framed as per structural drawings. Wood in contact with concrete to be pressure-treated, provide sill sealer below all exterior wall sill plates.
- Fill all stud cavities with insulation thermal insulation @ exterior walls; acoustic insulation @ interior walls. Refer to wall types and specifications for types and configurations.

KEYNOTES

#	DESCRIPTION	REF. DTL/SHT
1	STAIR HANDRAIL / GUARDRAIL	3,4/A2.10
2	CANTILEVER GLASS GUARDRAIL	2/A5.07
3	KITCHEN ISLAND w/ CABINETS BELOW	
4	GLASS SHOWER ENCLOSURE & DR	
5	GLASS WATER CLOSET ENCLOSURE & DR	
6	RECESSED DRYERBOX	REF. MECH.
7	RECESSED WASHER BOX	REF. PLBG.
8	STORAGE AND SPECIALTY EQUIP (SKI RACK, BIKE RACK, BOOT DRYERS)	REF. SPECS
9	FULL HEIGHT MILLWORK/CABINETRY DOORS AND HARDWARE;	REF. MLWK. SPECS REF. INT ELEV.
10	MILLWORK BENCH WITH OPERABLE LID, CUSHION BY OWNER	REF. MLWK. SPECS
11	SIMILAR BUNK CONDITION	A5.12
12	MILLWORK	REF. MLWK. SPECS

GENERAL ROOF PLAN NOTES

- 1. Refer to general information sheet for general notes, abbreviations, symbols, legends and alternates.
- 2. All roof mounted equipment to be placed with special attention to visibility and sight lines, and are to be confirmed in the field with the Architect prior to starting work. Field coordinate height of all mechanical screens to ensure all roof-mounted equipment is fully screened.
- 3. Vent pipes and all other roof penetrations shall be planned carefully prior to rough-in. Consolidate, size, and locate as inconspicuously as possible, with heights as per code-minimum requirements - provide fabricated metal shroud to screen penetrations from view; match roofing material.
- 4. At sloped metal roofs, wrap and/or clad non-metal items to match material and finish of roofing where metal shroud cannot be provided, such as chimneys.



STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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MECH/PLBG/ELEC peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020 t (602) 388-1732

LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295



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MELECTRICAL MENERGY

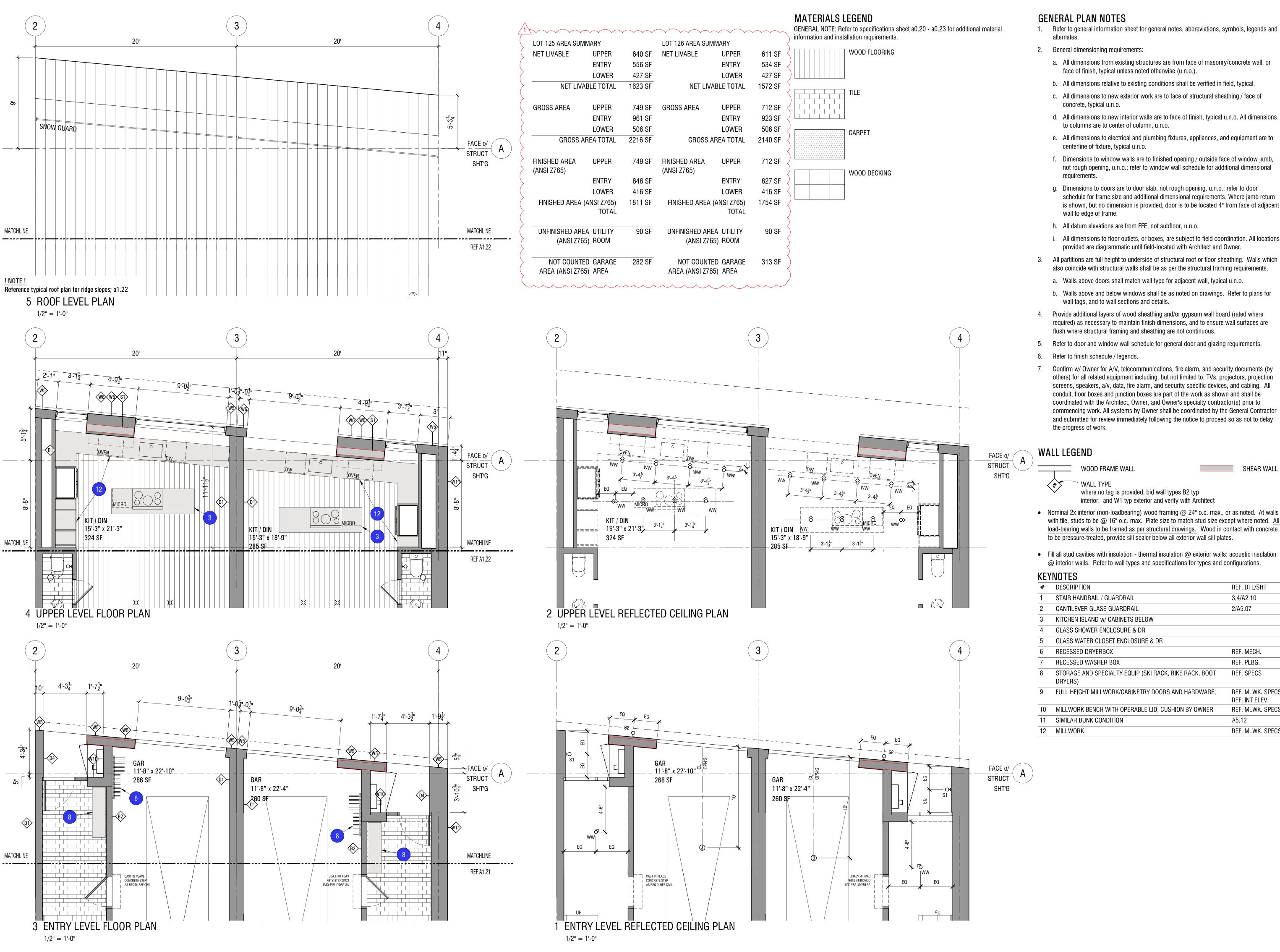
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1/4" = 1'-0"



PERMIT SET phase / rev **2017.06.01** date



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WOOD FRAME WALL

SHEAR WALL

REF. DTL/SHT

REF. MLWK. SPECS

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where no tag is provided, bid wall types B2 typ

• Fill all stud cavities with insulation - thermal insulation @ exterior walls; acoustic insulation @ interior walls. Refer to wall types and specifications for types and configurations.

KEYNOTES

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6	RECESSED DRYERBOX	REF. MECH.
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11	SIMILAR BUNK CONDITION	A5.12

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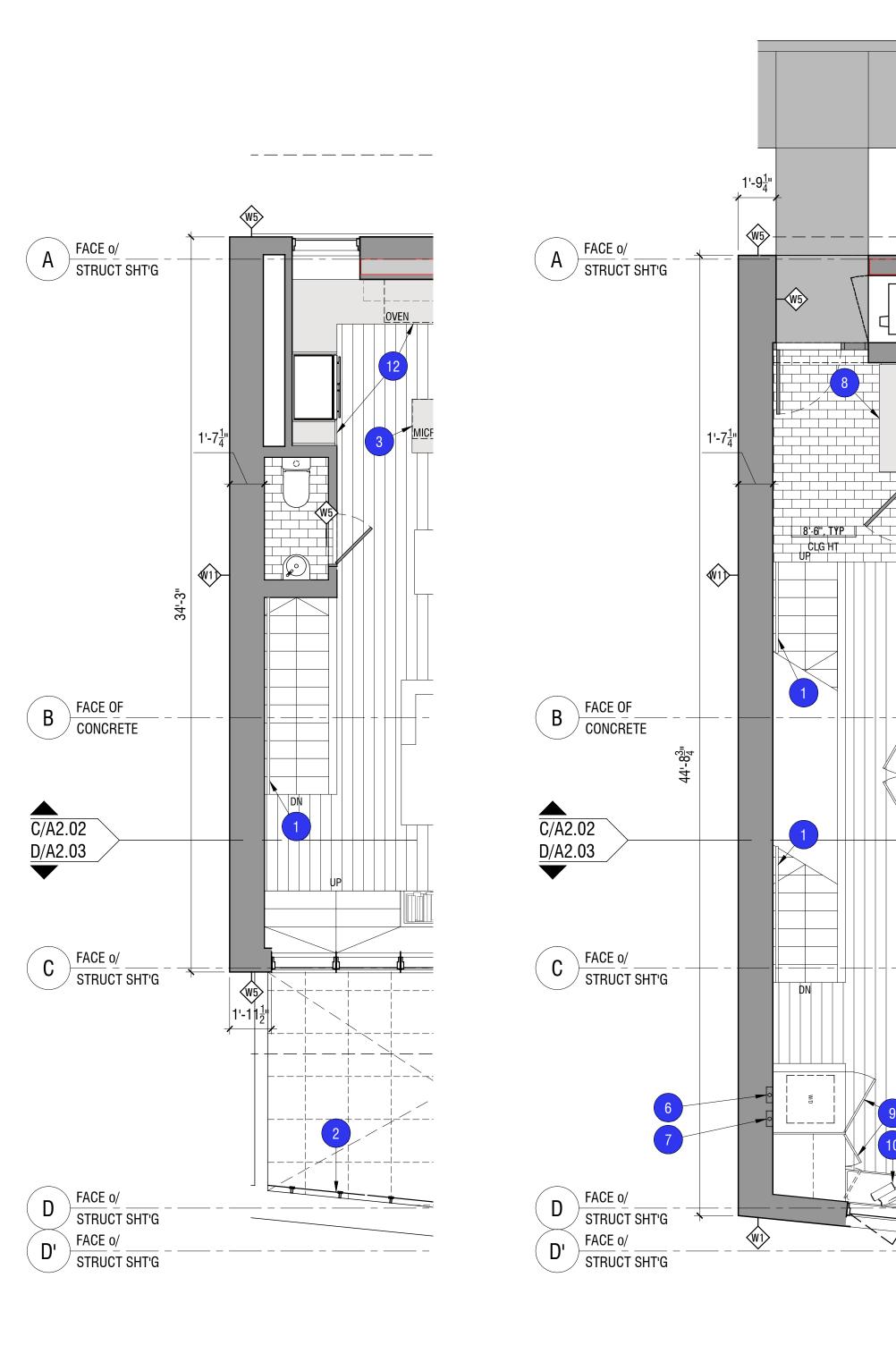


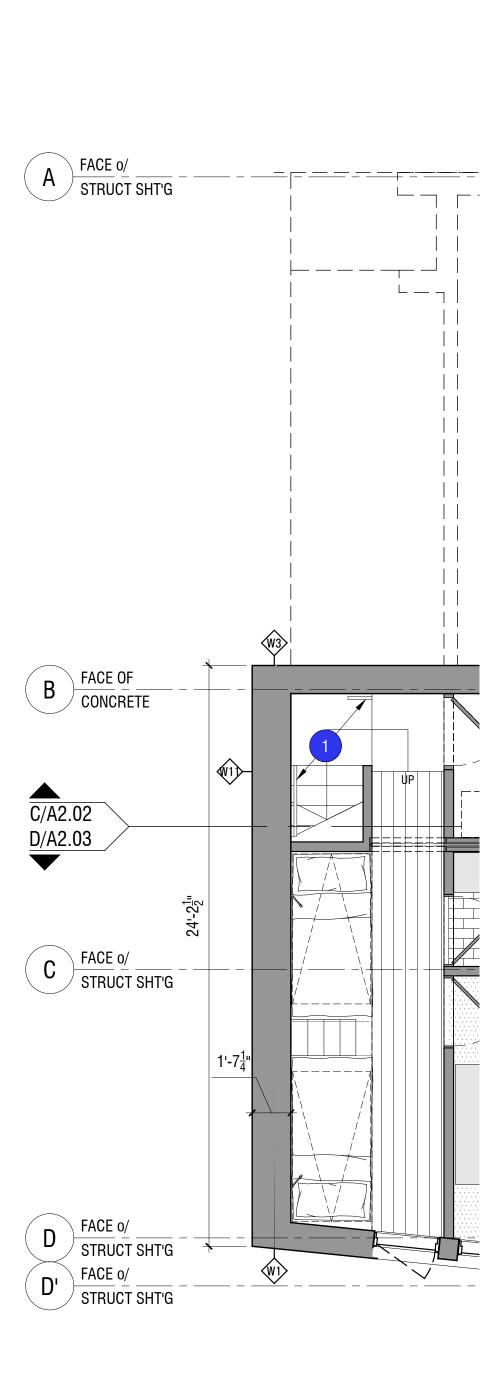
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LOTS 125 & 126
PARTIAL PLANS
AND REFLECTED
CEILING PLANS AS NOTED



PERMIT SET phase / rev **2017.06.01** date



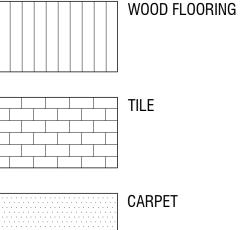


3
UPPER LEVEL FLOOR PLAN
1/2" = 1'-0"

2 ENTRY LEVEL FLOOR PLAN 1/2" = 1'-0" 1 LOWER LEVEL FLOOR PLAN 1/2" = 1'-0"

MATERIALS LEGEND

GENERAL NOTE: Refer to specifications sheet a0.20 - a0.21 for additional material information and installation requirements.



WOOD DECKING

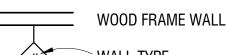
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WALL LEGEND



SHEAR WALL

REF. DTL/SHT

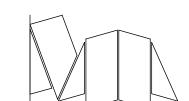
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KEYNOTES

DESCRIPTION

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2	CANTILEVER GLASS GUARDRAIL	2/A5.07
3	KITCHEN ISLAND w/ CABINETS BELOW	
4	GLASS SHOWER ENCLOSURE & DR	
5	GLASS WATER CLOSET ENCLOSURE & DR	
6	RECESSED DRYERBOX	REF. MECH.
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8	STORAGE AND SPECIALTY EQUIP (SKI RACK, BIKE RACK, BOOT DRYERS)	REF. SPECS
9	FULL HEIGHT MILLWORK/CABINETRY DOORS AND HARDWARE;	REF. MLWK. SPEC REF. INT ELEV.
10	MILLWORK BENCH WITH OPERABLE LID, CUSHION BY OWNER	REF. MLWK. SPEC
11	SIMILAR BUNK CONDITION	A5.12
12	MILLWORK	REF. MLWK. SPEC



architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name
POWDERCAT

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DANIEL HOFFMAN

No. 7829867-0301

June 1, 2017.

PLAN REVIEW ACCEPTANCE
FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

BUILDING STRUCTURAL
MECHANICAL PLUMBING
ELECTRICAL ENERGY
ACCESSIBILITY FIRE

PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.

BY: MEM DATE: 07/21/17

WEST COAST CODE CONSULTANTS, INC.

A1.28
TYPICAL UNIT END
WALL CONDITION

1/4" = 1'-0" scale

PERMIT SET phase / rev
2017.06.01 date



1/4" = 1'-0"

1/4" = 1'-0"

1/4" = 1'-0"

GENERAL REFLECTED CEILING PLAN NOTES

- 1. Refer to electrical drawings for lighting fixture schedule, switching and additional
- 2. Refer to mechanical drawings for diffuser/grille schedule and additional info.
- 3. Dimensions from walls are taken from face of finish, typical unless noted otherwise.
- 4. Dimensions to fixtures are provided to centerline of fixture, typical unless noted otherwise.
- 5. Final locations of access panels to be coordinated in field prior to commencement of ceiling work.
- 6. Refer to structural framing plan for structure layout and dimensional controls. NOTE TO GC: Coordinate joist layout with recessed fixtures to ensure alignments as indicated make provisions for additional framing members as required to maintain fixture locations. Consult with Architect prior to proceeding with work where conflicts occur between fixture locations as dimensioned and field verified joist locations.
- 7. All ceiling-mounted fixtures, devices, and other elements are to be located with careful attention to centering and alignment. Any elements not indicated, but required to be installed are to be centered on other ceiling features - review with Architect prior to proceeding with work.

TAG	MTG.	MFR.	CATALOG No.	VOLT	LAMPS	REMARKS
WW	REC	ACULUX	3-1/4in, IC43N SERIES ADJUSTABLE w/ WHITE FINISH, WET LOCATION, IC RATED, BI-PIN SOCKET BASE	120	LED	ADJ. DOWNLIGHT
WWE	REC	ACULUX	3-1/4in, IC43N SERIES ADJUSTABLE w/ WHITE FINISH, WET LOCATION, IC RATED, BI-PIN SOCKET BASE	120	LED	WET LOCATION ADJ. DOWNLIGHT
SL	REC	BEGA	22 230, WHITE FINISH w/ REMOTE DRIVER	120	LED	STEP LIGHT
ML	WALL	LEUCOS	VITTORIA P2 LED SATIN WHITE/POLISHED CHROME	120	LED	MIRROR LIGHT. WALL SCONCE
SH	REC	ACULUX	3-1/4in, IC43N SERIES w/ WHITE FINISH, WET LOCATION w/ SHOWER TRIM, IC RATED, BI-PIN SOCKET BASE	120	LED	SHOWER TRIM DOWNLIGHT
E#	SURF	AXIS	BOX MINI LED, WHITE FINISH	120	LED	STRIP LIGHT. # = FIXTURE LENGTH, IN FEET
D#	WALL	AXIS	BOX MINI LED, WHITE FINISH	120	LED	STRIP LIGHT. # = FIXTURE LENGTH, IN FEET
WS1	WALL	WAC LTG	WS-W65607, BRONZE FINISH	120	LED	WALL SCONCE w/UP&DN DIST.
WS2	WALL	CERNO	'LIBRI' HARDWIRED, w/ ALUM BACKER PLATE	120	LED	NON-SWITCHED, NON-DIMMING
S1	WALL	WAC LTG	WS-W65607, BRONZE FINISH	120	LED	WET LOCATION WALL SCONCE
S2		LOUIS POULSEN	AJ 50 WALL LED, BLACK FINISH		LED	WET LOCATION WALL SCONCE, DECORATIVE
E		BY E.C.	BY OWNER - INSTALLED	120	INCAN	DECORATIVE PENDANT
SF	CLG	DELTA LIGHT	TWEETER ON 2 REO 3033 DIM1	120	LED	w/ FAN-RATED J-BOX
DS	REC		BY CONTRACTOR			DOOR SWITCH
OCC	SURF		BY CONTRACTOR			OCCUPANCY SENSOR

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PLAN REVIEW ACCEPTANCE XBUILDING
XSTRUCTURAL

XMECHANICAL
XPLUMBING

XELECTRICAL
XENERGY

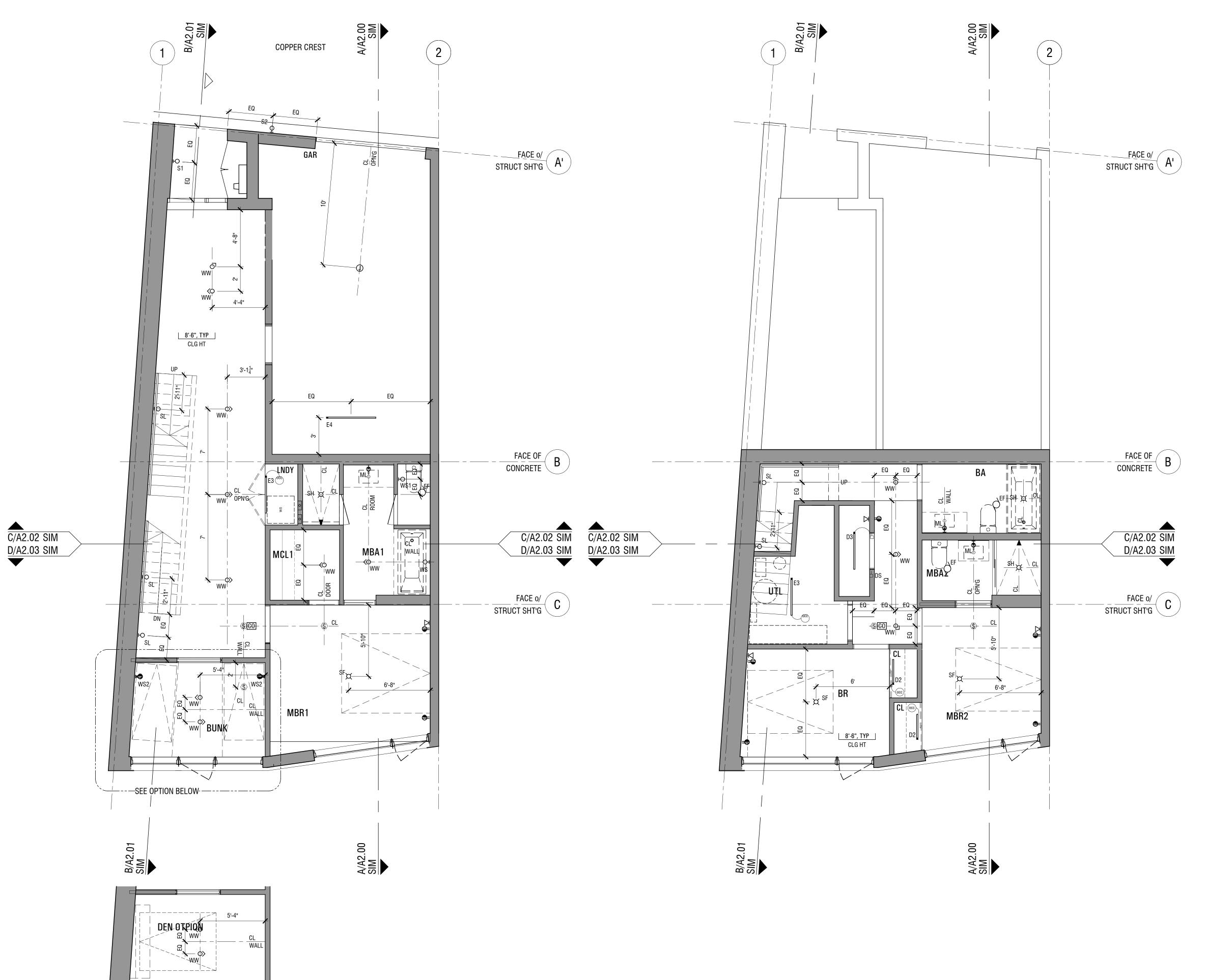
ACCESSIBILITY
FIRE WEST COAST CODE CONSULTANTS, INC

A1.51
TYPICAL UNIT
REFLECTED CEILING PLANS

1/4" = 1'-0" scale



PERMIT SET phase / rev



LOWER LEVEL REFLECTED CEILING PLAN

1/4" = 1'-0"

ENTRY LEVEL REFLECTED CEILING PLAN

1/4" = 1'-0"

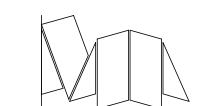
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ML	WALL	LEUCOS	VITTORIA P2 LED SATIN WHITE/POLISHED CHROME	120	LED	MIRROR LIGHT. WALL SCONCE
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S2		LOUIS POULSEN	AJ 50 WALL LED, BLACK FINISH		LED	WET LOCATION W SCONCE, DECORA
E	PEND	BY E.C.	BY OWNER - INSTALLED	120		DECORATIVE PENDANT
SF	CLG	DELTA LIGHT	TWEETER ON 2 REO 3033 DIM1	120	LED	CEILING SURFACE w/ FAN-RATED J-E
DS	REC		BY CONTRACTOR			DOOR SWITCH
000	SURF		BY CONTRACTOR			OCCUPANCY SENS

ALL WALL WASH AND SHOWER FIXTURES TO BE PROVIDED w/ LED BI-PIN SOCKET

LAMPS BY SORAA MR16 GU10 9W (590 LUMENS) 'BRILLIANT'



STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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STRUCTURAL rudow + berry, inc. 4032 n miller rd. a100 scottsdale, az 85251 t (480) 946-8171

MECH/PLBG/ELEC peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020 t (602) 388-1732

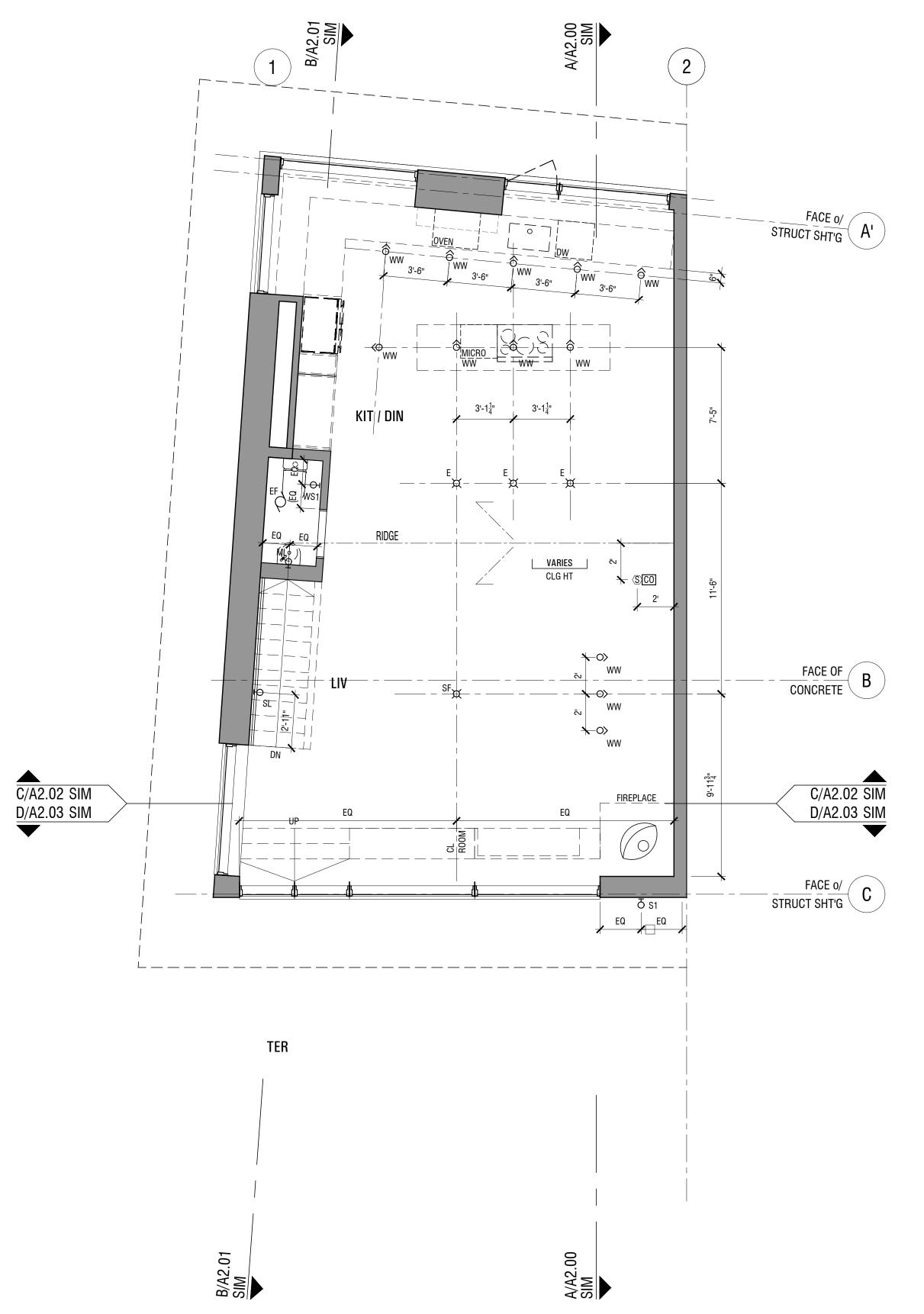
LANDSCAPE angvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295

No. 7829867-0301 June 1, 2017

PLAN REVIEW ACCEPTANC MECHANICAL PLUMBING
LECTRICAL ENERGY
ACCESSIBILITY FIRE WEST COAST CODE CONSULTANTS, INC

A1.53
LOT 124 ENTRY AND
LOWER LEVEL
REFLECTED CEILING PLANS 1/4" = 1'-0" scale

PERMIT SET phase / rev

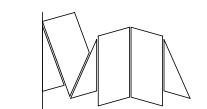


GENERAL REFLECTED CEILING PLAN NOTES

- 1. Refer to electrical drawings for lighting fixture schedule, switching and additional
- 2. Refer to mechanical drawings for diffuser/grille schedule and additional info.
- 3. Dimensions from walls are taken from face of finish, typical unless noted otherwise.
- 4. Dimensions to fixtures are provided to centerline of fixture, typical unless noted otherwise.
- 5. Final locations of access panels to be coordinated in field prior to commencement of ceiling work.
- 6. Refer to structural framing plan for structure layout and dimensional controls. NOTE TO GC: Coordinate joist layout with recessed fixtures to ensure alignments as indicated make provisions for additional framing members as required to maintain fixture locations. Consult with Architect prior to proceeding with work where conflicts occur between fixture locations as dimensioned and field verified joist locations.
- 7. All ceiling-mounted fixtures, devices, and other elements are to be located with careful attention to centering and alignment. Any elements not indicated, but required to be installed are to be centered on other ceiling features - review with Architect prior to proceeding with work.

TAG	MTG.	MFR.	CATALOG No.	VOLT	LAMPS	REMARKS
WW	REC	ACULUX	3-1/4in, IC43N SERIES ADJUSTABLE w/ WHITE FINISH, WET LOCATION, IC RATED, BI-PIN SOCKET BASE	120	LED	ADJ. DOWNLIGHT
WWE	REC	ACULUX	3-1/4in, IC43N SERIES ADJUSTABLE w/ WHITE FINISH, WET LOCATION, IC RATED, BI-PIN SOCKET BASE	120	LED	WET LOCATION ADJ. DOWNLIGHT
SL	REC	BEGA	22 230, WHITE FINISH w/ REMOTE DRIVER	120	LED	STEP LIGHT
ML	WALL	LEUCOS	VITTORIA P2 LED SATIN WHITE/POLISHED CHROME	120	LED	MIRROR LIGHT. WALL SCONCE
SH	REC	ACULUX	3-1/4in, IC43N SERIES w/ WHITE FINISH, WET LOCATION w/ SHOWER TRIM, IC RATED, BI-PIN SOCKET BASE	120	LED	SHOWER TRIM DOWNLIGHT
E#	SURF	AXIS	BOX MINI LED, WHITE FINISH	120	LED	STRIP LIGHT. # = FIXTURE LENGTH, IN FEET
D#	WALL	AXIS	BOX MINI LED, WHITE FINISH	120	LED	STRIP LIGHT. # = FIXTURE LENGTH, IN FEET
WS1	WALL	WAC LTG	WS-W65607, BRONZE FINISH	120	LED	WALL SCONCE w/UP&DN DIST.
WS2	WALL	CERNO	'LIBRI' HARDWIRED, w/ ALUM BACKER PLATE	120	LED	NON-SWITCHED, NON-DIMMING
S1	WALL	WAC LTG	WS-W65607, BRONZE FINISH	120	LED	WET LOCATION WALL SCONCE
S2	WALL	LOUIS POULSEN	AJ 50 WALL LED, BLACK FINISH		LED	WET LOCATION WALL SCONCE, DECORATIVE
E		BY E.C.	BY OWNER - INSTALLED	120		DECORATIVE PENDANT
SF	CLG	DELTA LIGHT	TWEETER ON 2 REO 3033 DIM1	120	LED	CEILING SURFACE MT w/ FAN-RATED J-BOX
DS	REC		BY CONTRACTOR			DOOR SWITCH
000	SURF		BY CONTRACTOR			OCCUPANCY SENSOR
			ULE GENERAL NOTES:			
1.			PROVIDED WITH DIMMING			
2.			TO BE 3000K, MINIMUM CF			
3.			ND SHOWER FIXTURES TO			•

LAMPS BY SORAA MR16 GU10 9W (590 LUMENS) 'BRILLIANT'



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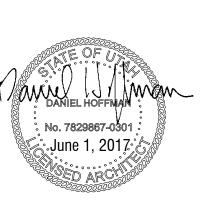
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MELECTRICAL ENERGY

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A1.54
LOT 124 UPPER
LEVEL REFLECTED
CEILING PLAN

1/4" = 1'-0"

PERMIT SET phase / rev

2017.06.01 date

LOWER LEVEL REFLECTED CEILING PLAN 1/4" = 1'-0"



2
ENTRY LEVEL REFLECTED CEILING PLAN
1/4" = 1'-0"

LOWER LEVEL REFLECTED CEILING PLAN
1/4" = 1'-0"

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WW	REC	ACULUX	3-1/4in, IC43N SERIES ADJUSTABLE w/ WHITE FINISH, WET LOCATION, IC RATED, BI-PIN SOCKET BASE	120	LED	ADJ. DOWNLIGHT
WWE	REC	ACULUX	3-1/4in, IC43N SERIES ADJUSTABLE w/ WHITE FINISH, WET LOCATION, IC RATED, BI-PIN SOCKET BASE	120	LED	WET LOCATION ADJ. DOWNLIGHT
SL	REC	BEGA	22 230, WHITE FINISH w/ REMOTE DRIVER	120	LED	STEP LIGHT
ML	WALL	LEUCOS	VITTORIA P2 LED SATIN WHITE/POLISHED CHROME	120	LED	MIRROR LIGHT. WALL SCONCE
SH	REC	ACULUX	3-1/4in, IC43N SERIES w/ WHITE FINISH, WET LOCATION w/ SHOWER TRIM, IC RATED, BI-PIN SOCKET BASE	120	LED	SHOWER TRIM DOWNLIGHT
E#	SURF	AXIS	BOX MINI LED, WHITE FINISH	120	LED	STRIP LIGHT. # = FIXTURE LENGTH, IN FEET
D#	WALL	AXIS	BOX MINI LED, WHITE FINISH	120	LED	STRIP LIGHT. # = FIXTURE LENGTH, IN FEET
WS1	WALL	WAC LTG	WS-W65607, BRONZE FINISH	120	LED	WALL SCONCE w/UP&DN DIST.
WS2	WALL		'LIBRI' HARDWIRED, w/ ALUM BACKER PLATE	120	LED	NON-SWITCHED, NON-DIMMING
S1	WALL		WS-W65607, BRONZE FINISH	120	LED	WET LOCATION WAL
S2		LOUIS POULSEN	AJ 50 WALL LED, BLACK FINISH		LED	WET LOCATION WAL SCONCE, DECORATIV
E	PEND	BY E.C.	BY OWNER - INSTALLED	120		DECORATIVE PENDANT
SF	CLG	DELTA LIGHT	TWEETER ON 2 REO 3033 DIM1	120	LED	CEILING SURFACE MT w/ FAN-RATED J-BOX
DS	REC		BY CONTRACTOR			DOOR SWITCH
000	SURF		BY CONTRACTOR			OCCUPANCY SENSOR
			ULE GENERAL NOTES:			
1.			PROVIDED WITH DIMMING			
2.			TO BE 3000K, MINIMUM CF			
3.	ALL WALL WASH AND SHOWER FIXTURES TO BE PROVIDED W/ LED BI-PIN SOCKET					

LAMPS BY SORAA MR16 GU10 9W (590 LUMENS) 'BRILLIANT'

architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. **16-101**

sma project name
POWDERCAT

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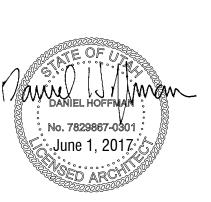
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t (602) 388-1732

LANDSCAPE langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295



PLAN REVIEW ACCEPTANCE

FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

| BUILDING | STRUCTURAL | PLUMBING | ELECTRICAL | ENERGY | ACCESSIBILITY | FIRE

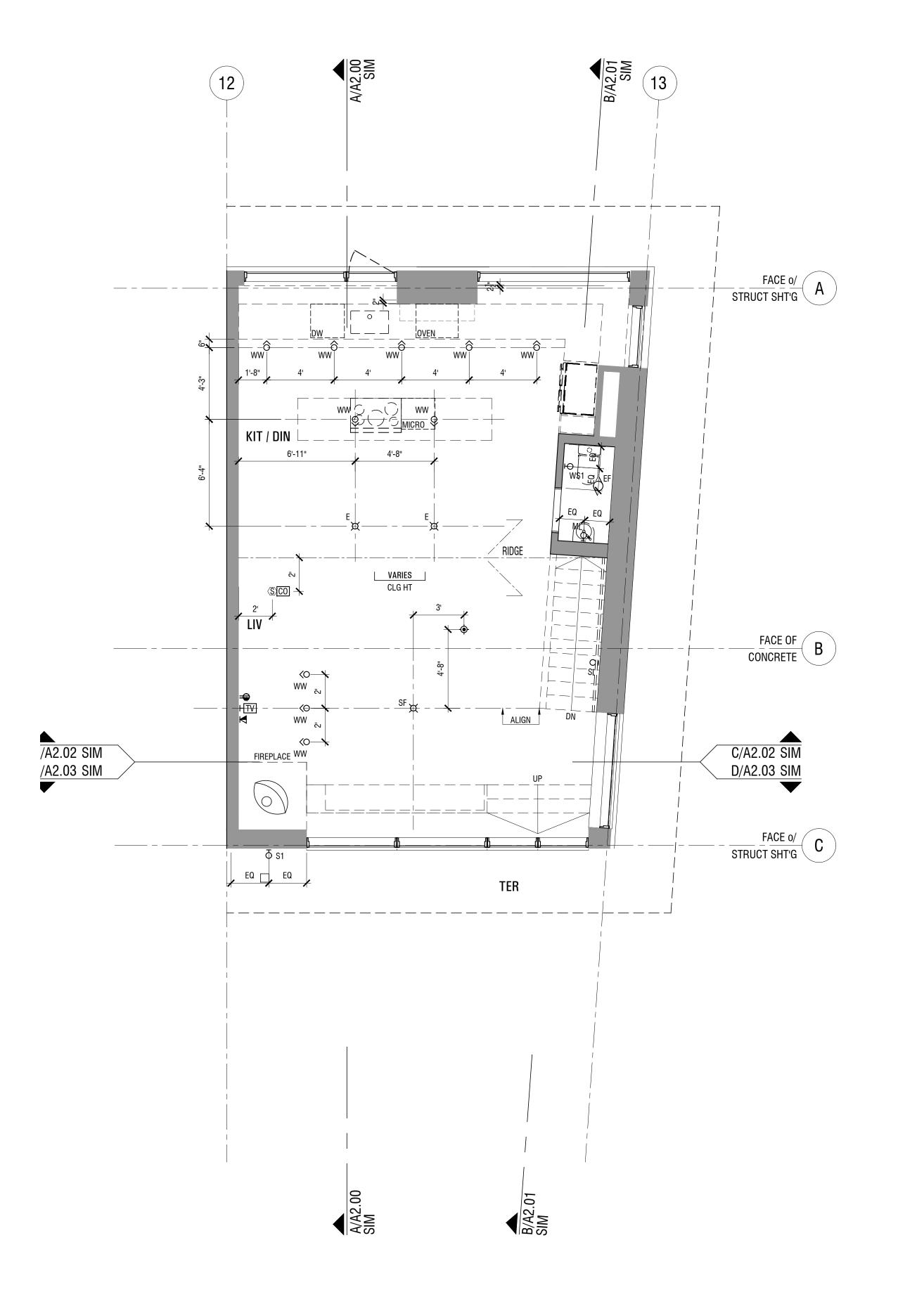
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| BY: MEM | DATE: 07/21/17 | WEST COAST CODE CONSULTANTS, INC.

A 1.55
LOT 133 ENTRY AND
LOWER LEVEL
REFLECTED CEILING
PLANS
1/4" = 1'-0"
scale

PERMIT SET phase / rev

pnase / rev **2017.06.01** date



UPPER LEVEL REFLECTED CEILING PLAN 1/4" = 1'-0"

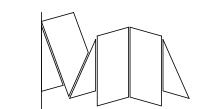
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TAG	MTG.	MFR.	CATALOG No.	VOLT	LAMPS	REMARKS
WW	REC	ACULUX	3-1/4in, IC43N SERIES	120	LED	ADJ. DOWNLIGHT
			ADJUSTABLE w/ WHITE			
			FINISH, WET LOCATION,			
			IC RATED, BI-PIN			
			SOCKET BASE			
WWE	REC	ACULUX	3-1/4in, IC43N SERIES	120	LED	WET LOCATION ADJ.
			ADJUSTABLE w/ WHITE			DOWNLIGHT
			FINISH, WET LOCATION,			
			IC RATED, BI-PIN			
01	DEO	DEOA	SOCKET BASE	400	LED	OTED LIQUIT
SL	REC	BEGA	22 230, WHITE FINISH	120	LED	STEP LIGHT
N // I	14/011	1.511000	w/ REMOTE DRIVER	100	LED	MIDDOD LIQUIT
ML	WALL	LEUCOS	VITTORIA P2 LED SATIN	120	LED	MIRROR LIGHT.
			WHITE/POLISHED			WALL SCONCE
SH	REC	ACULUX	CHROME 3-1/4in, IC43N SERIES	120	LED	SHOWER TRIM
JII	ILLO	AUULUX	w/ WHITE FINISH, WET	120	LLD	DOWNLIGHT
			LOCATION w/ SHOWER			DOWNLIGHT
			TRIM, IC RATED, BI-PIN			
			SOCKET BASE			
E#	SURF	AXIS	BOX MINI LED, WHITE	120	LED	STRIP LIGHT. # =
			FINISH			FIXTURE LENGTH, IN
						FEET
D#	WALL	AXIS	BOX MINI LED, WHITE	120	LED	STRIP LIGHT. # =
			FINISH			FIXTURE LENGTH, IN
						FEET
WS1	WALL	WAC LTG	WS-W65607, BRONZE	120	LED	WALL SCONCE
			FINISH			w/UP&DN DIST.
WS2	WALL	CERNO	'LIBRI' HARDWIRED, w/	120	LED	NON-SWITCHED,
0.1	34/411	14/4 0 1 70	ALUM BACKER PLATE	100	1 ED	NON-DIMMING
S1	WALL	WAC LTG	WS-W65607, BRONZE	120	LED	WET LOCATION WALL
CO	14/411	LOUIC	FINISH	100	LED	SCONCE WET LOCATION WALL
S2	WALL	LOUIS POULSEN	AJ 50 WALL LED, BLACK FINISH	120	LED	
E	PEND		FINISH BY OWNER - INSTALLED	120	INCAN	SCONCE, DECORATIVE DECORATIVE
L	FLIND	BY E.C.	DI UWINEN - INSTALLED	120	INCAN	PENDANT
SF	CLG	DELTA	TWEETER ON 2 REO	120	LED	CEILING SURFACE MT
O1	OLG	LIGHT	3033 DIM1	120		w/ FAN-RATED J-BOX
DS	REC		BY CONTRACTOR			DOOR SWITCH
OCC	SURF		BY CONTRACTOR			OCCUPANCY SENSOR
IGHTI	NG FIXT	L URE SCHEDI	ULE GENERAL NOTES:	I		<u> </u>
1.			PROVIDED WITH DIMMING	САРАГ	ΒΙΙ ΙΤΥ ΔΙ	ND DIMMER SWITCHES
2.						
-•	ALL L.E.D. LAMPS TO BE 3000K, MINIMUM CRI OF 82, UNLESS NOTED OTHERWISE					

ALL WALL WASH AND SHOWER FIXTURES TO BE PROVIDED w/ LED BI-PIN SOCKET

LAMPS BY SORAA MR16 GU10 9W (590 LUMENS) 'BRILLIANT'



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sma project name POWDERCAT

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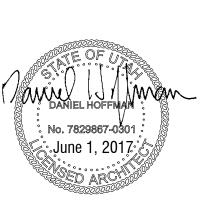
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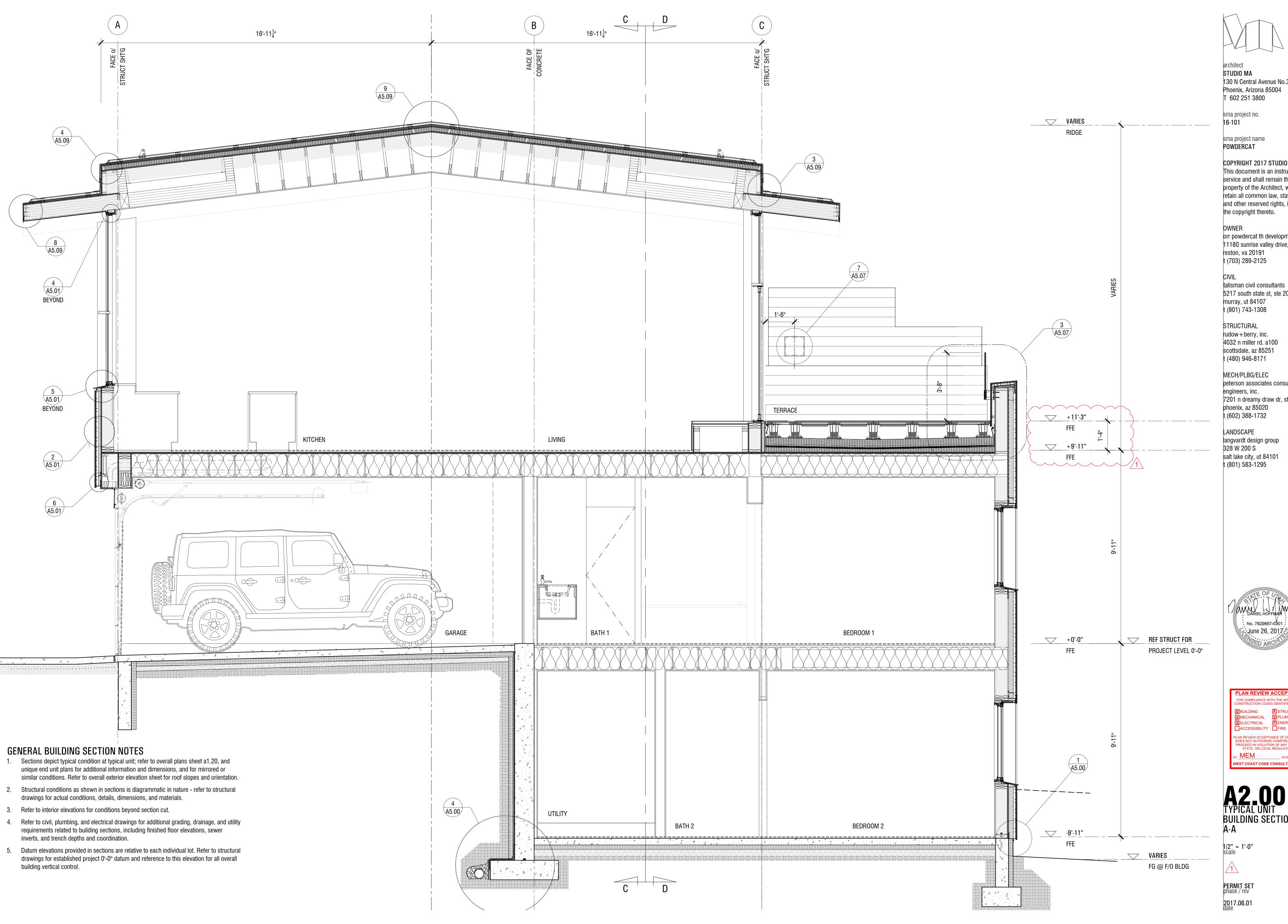


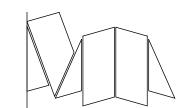
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A1.56
LOT 133 UPPER
LEVEL REFLECTED
CEILING PLAN

1/4" = 1'-0"

PERMIT SET phase / rev





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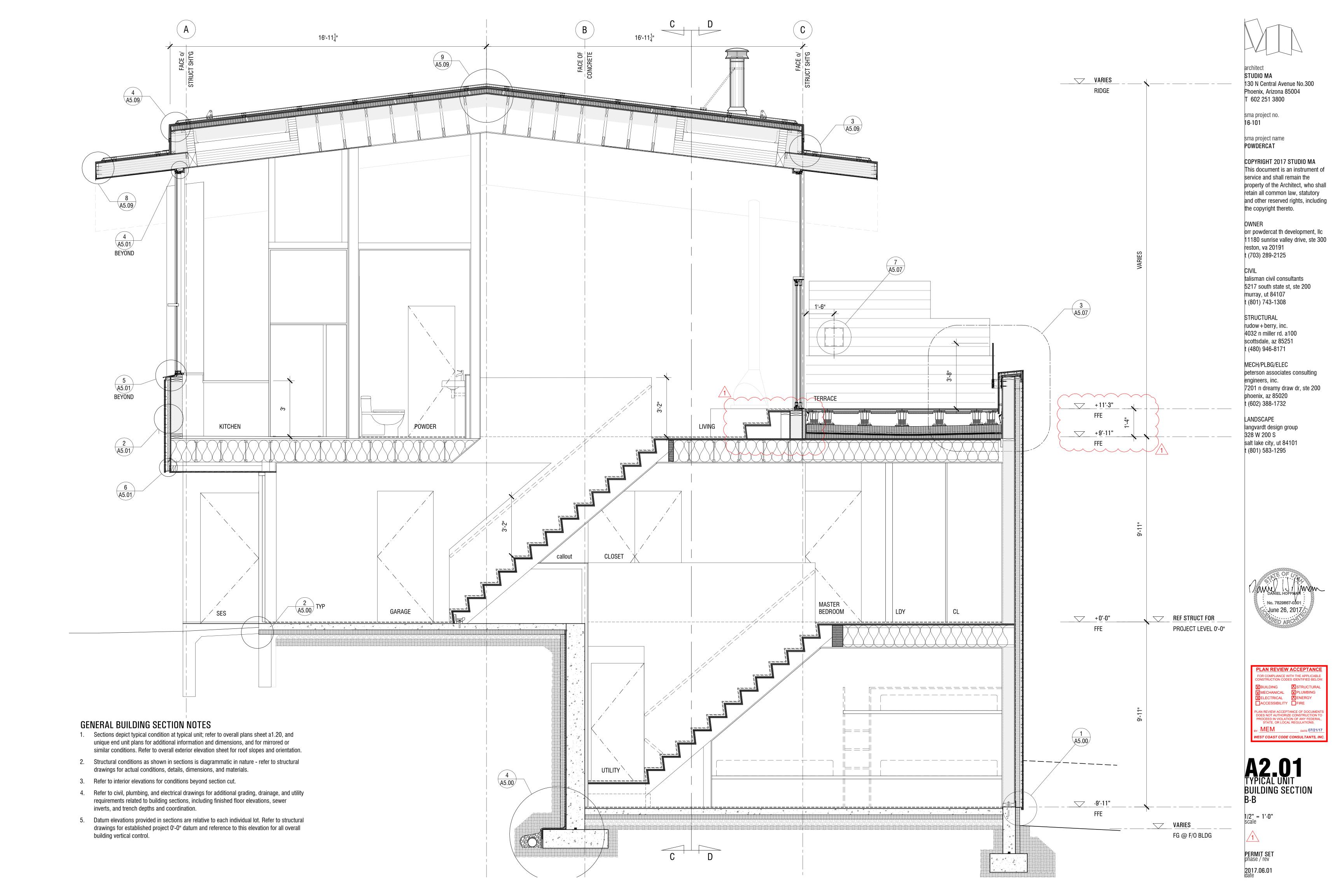
4032 n miller rd. a100

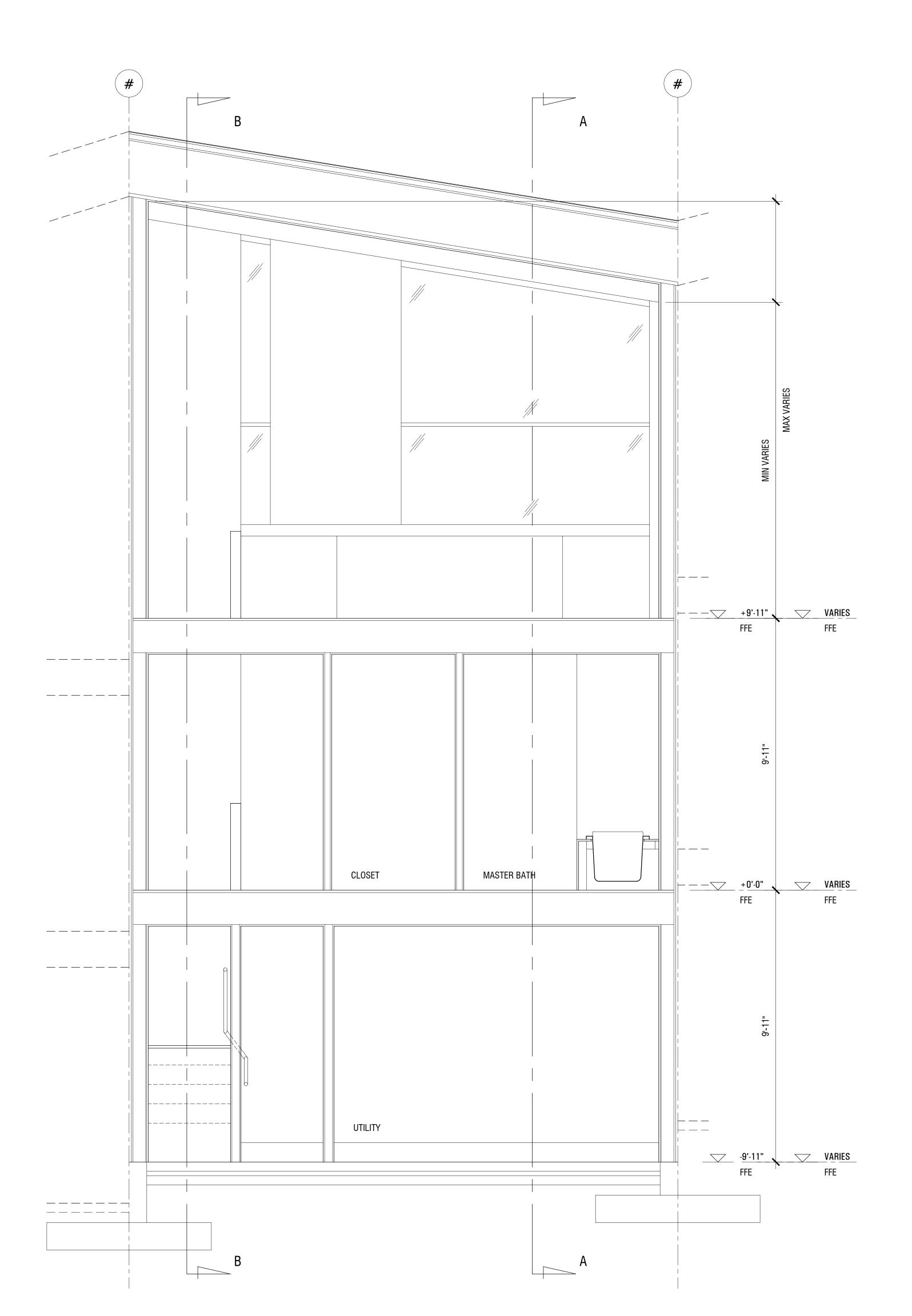
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langvardt design group salt lake city, ut 84101

PLAN REVIEW ACCEPTANCE ELECTRICAL ENERGY WEST COAST CODE CONSULTANTS, INC

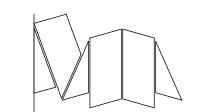
A2.00
TYPICAL UNIT
BUILDING SECTION





GENERAL BUILDING SECTION NOTES

- 1. Sections depict typical condition at typical unit; refer to overall plans sheet a1.20, and unique end unit plans for additional information and dimensions, and for mirrored or similar conditions. Refer to overall exterior elevation sheet for roof slopes and orientation.
- 2. Structural conditions as shown in sections is diagrammatic in nature refer to structural drawings for actual conditions, details, dimensions, and materials.
- 3. Refer to interior elevations for conditions beyond section cut.
- 4. Refer to civil, plumbing, and electrical drawings for additional grading, drainage, and utility requirements related to building sections, including finished floor elevations, sewer inverts, and trench depths and coordination.
- 5. Datum elevations provided in sections are relative to each individual lot. Refer to structural drawings for established project 0'-0" datum and reference to this elevation for all overall building vertical control.



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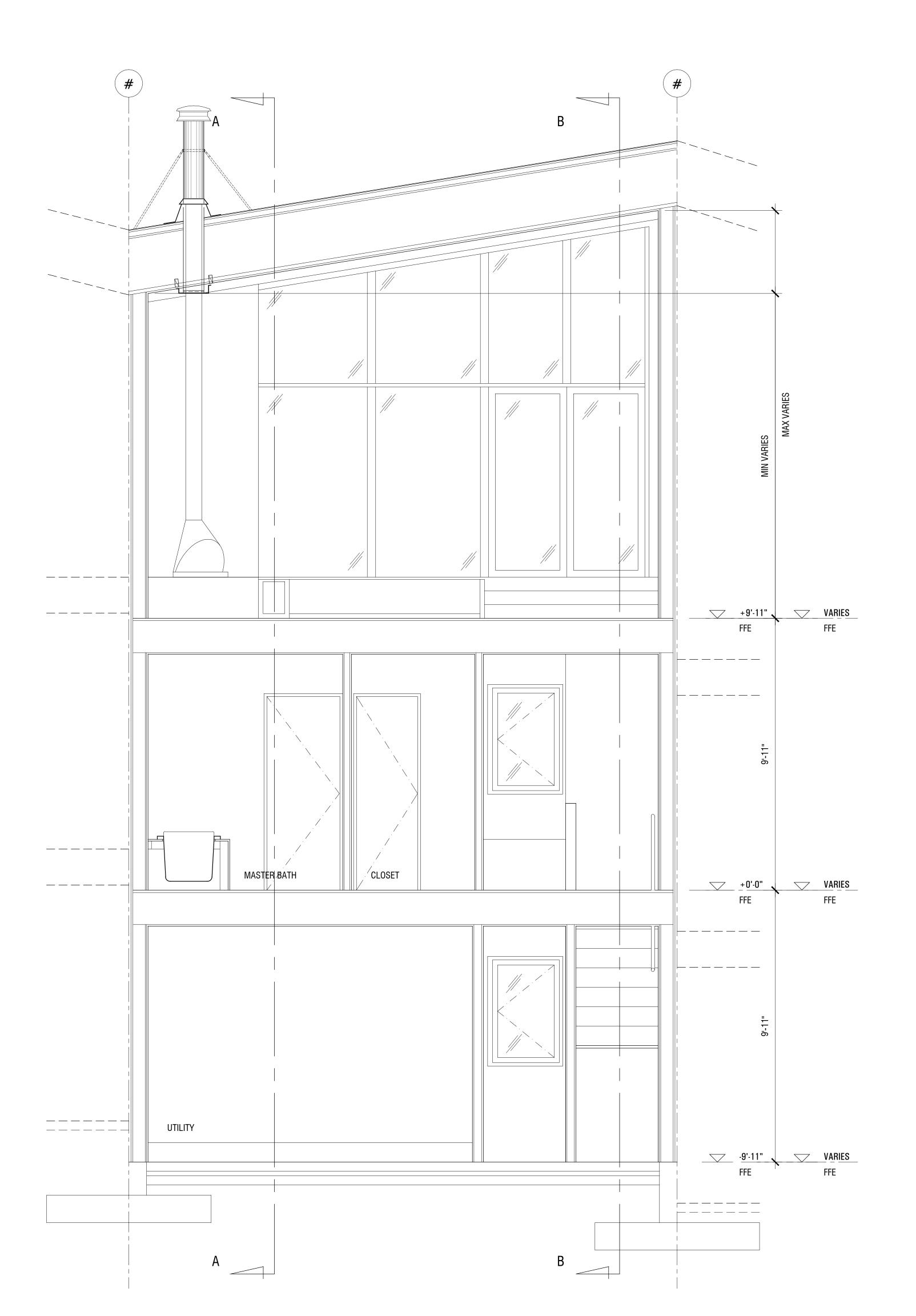


A2.02
TYPICAL UNIT
BUILDING SECTION

1/2" = 1'-

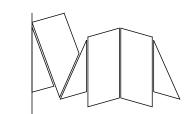
PERMIT SET phase / rev

phase / rev 2017.06.01



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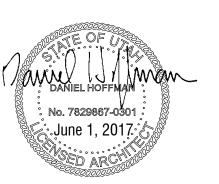
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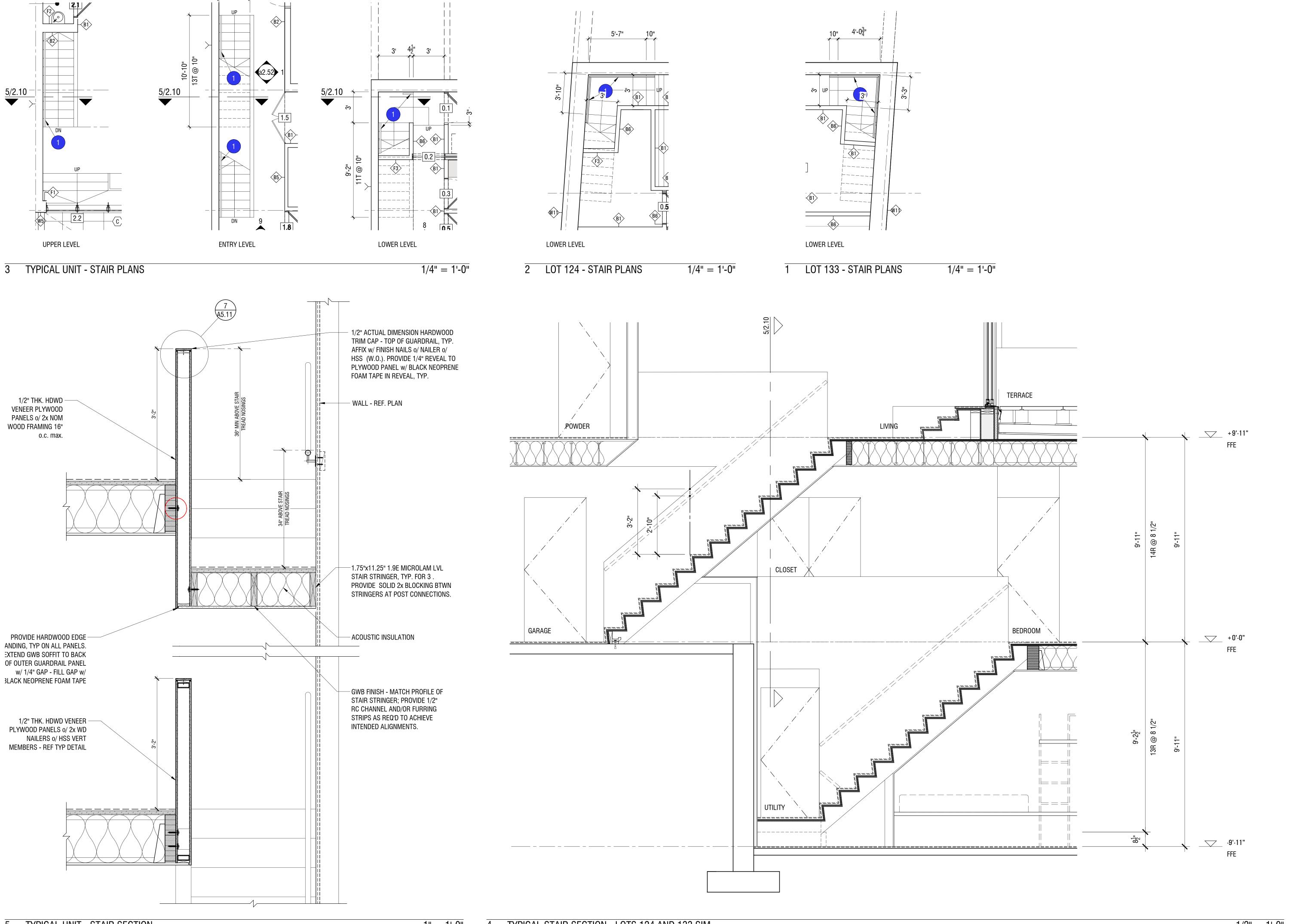


A2.03
TYPICAL UNIT
BUILDING SECTION
D-D

1/2" = 1'-0" scale

PERMIT SET phase / rev

2017.06.0



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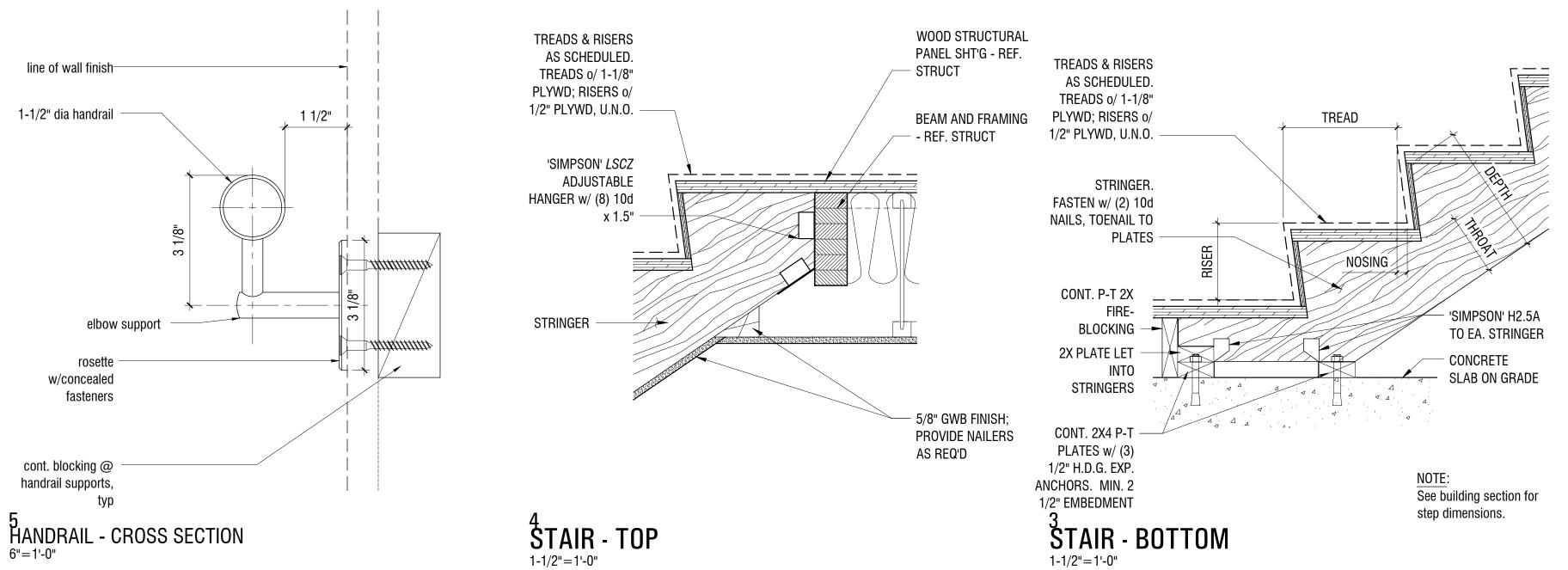
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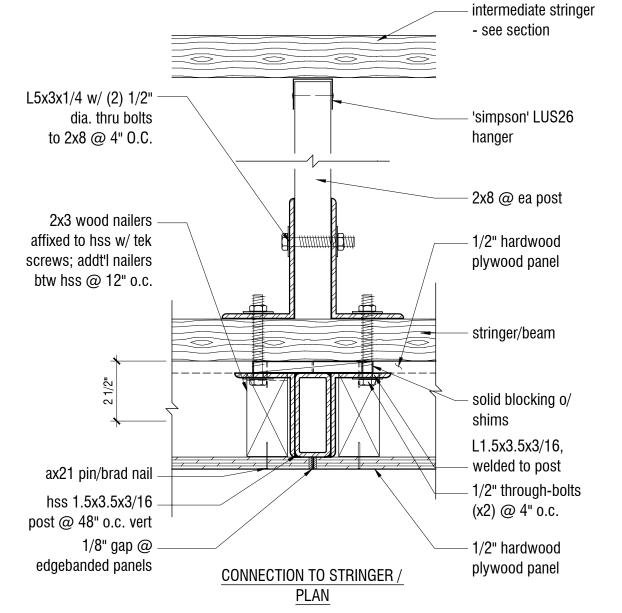


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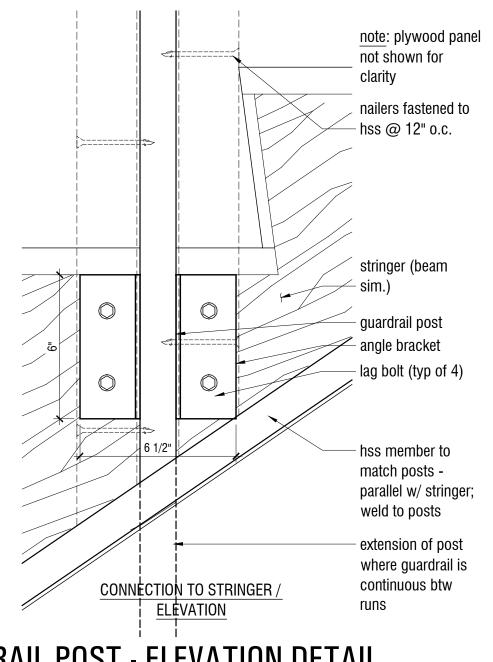
A2.10
TYPICAL STAIR
PLANS AND
SECTIONS

VARIES scale

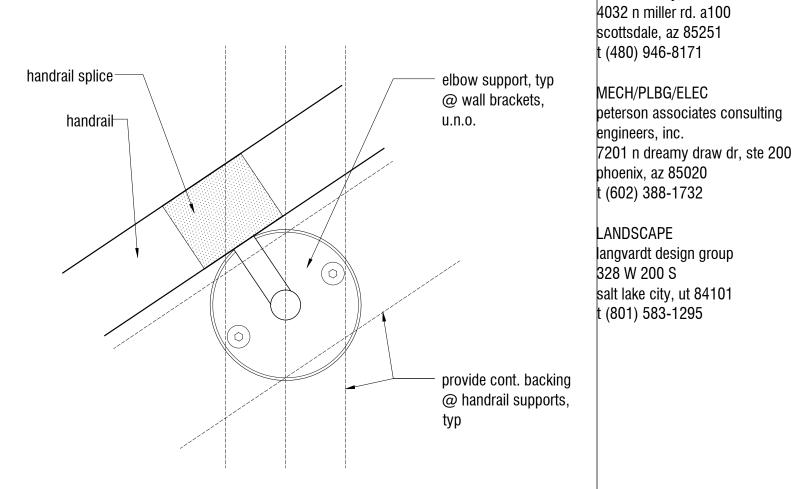




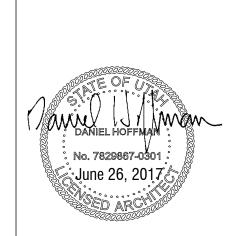
GUARDRAIL POST - PLAN DETAILS



GUARDRAIL POST - ELEVATION DETAIL



HANDRAIL - ELEVATION 6"=1'-0"



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Phoenix, Arizona 85004

T 602 251 3800

sma project no.

sma project name

POWDERCAT

16-101

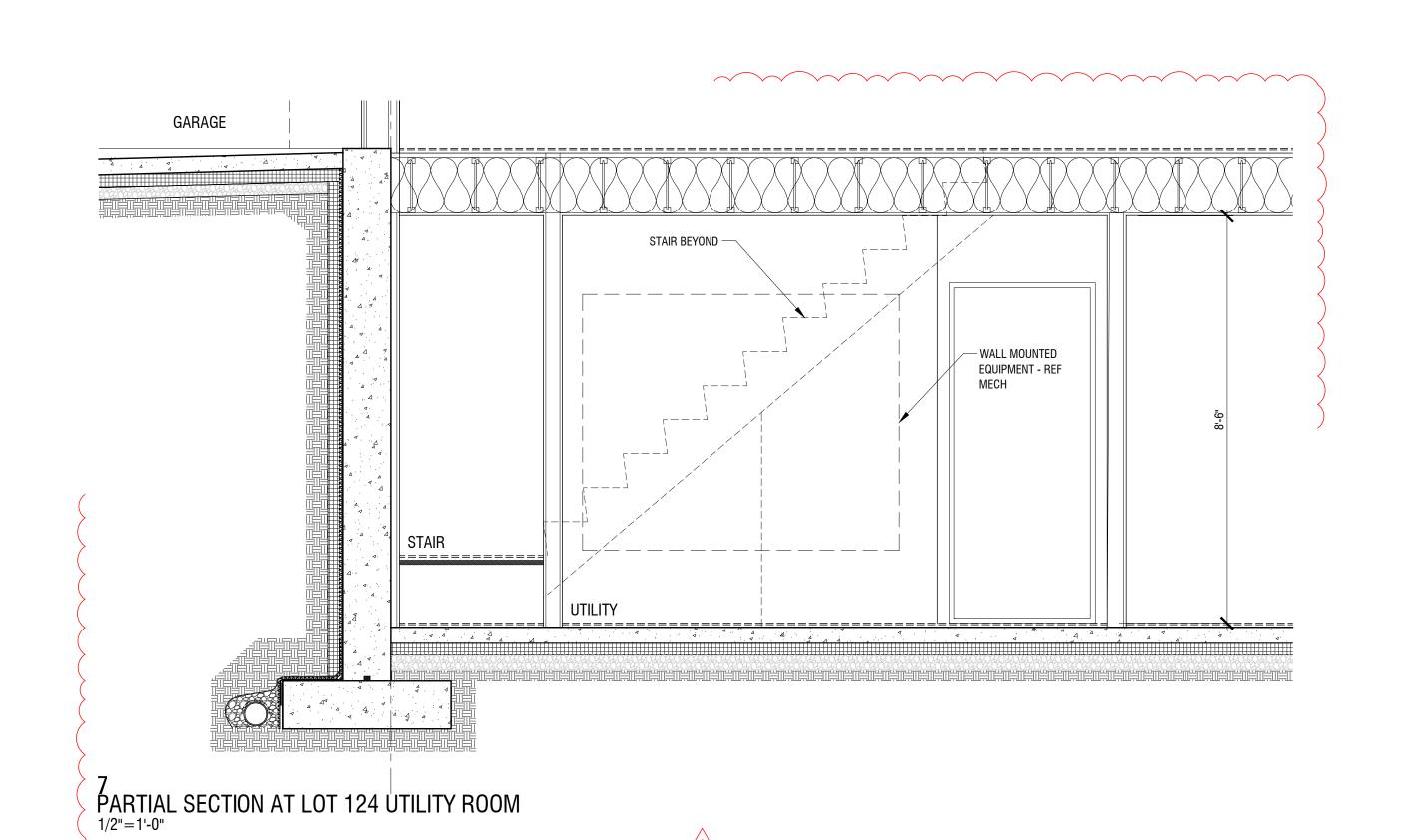


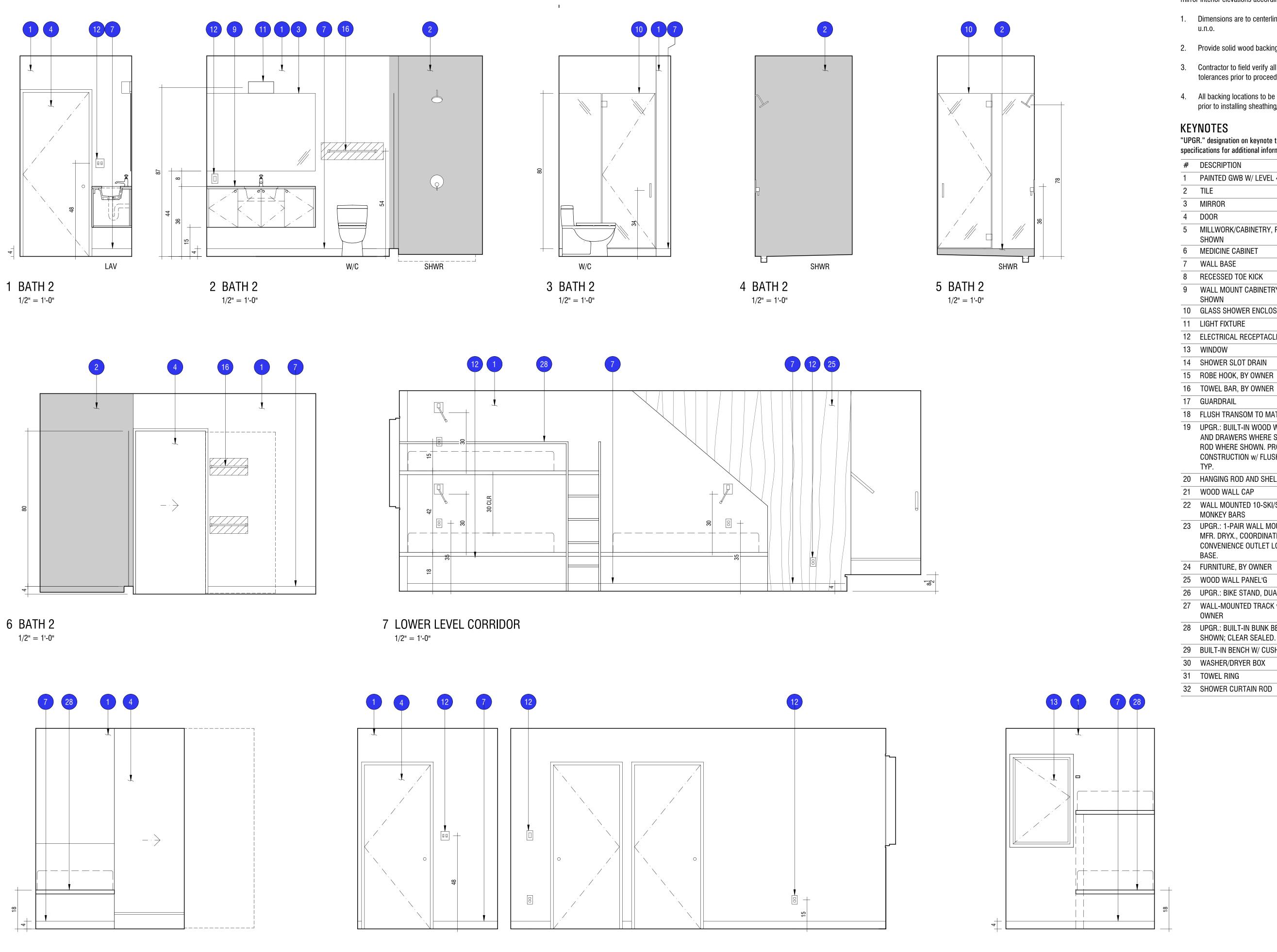


VARIES scale



PERMIT SET phase / rev





9 LOWER LEVEL CORRIDOR

1/2" = 1'-0"

8 LOWER LEVEL CORRIDOR

1/2" = 1'-0"

GENERAL INTERIOR ELEVATION NOTES

Interior elevations are drawn for typical unit - refer to site plan for mirrored unit conditions and mirror interior elevations accordingly

1.	Dimensions are to centerlines of fixtures/equipment/accessories, and to face of finish, typ
	u.n.o.

- 2. Provide solid wood backing at all fixtures/equipment/accessories locations, typ.
- 3. Contractor to field verify all openings and correct any deviations from specified framing tolerances prior to proceeding.
- 4. All backing locations to be reviewed by architect and approved by owner's representative prior to installing sheathing/finishes.

KEYNOTES

"UPGR." designation on keynote tags refers to owner upgrades, refer to specifications for additional information.

ecifications for additional information.	
DESCRIPTION	REF. DTL/SHT
PAINTED GWB W/ LEVEL 4 FINISH	
TILE	10/A5.10
MIRROR	
D00R	REF. PLAN
MILLWORK/CABINETRY, PROVIDE ADJUSTABLE SHELVES WHER SHOWN	E
MEDICINE CABINET	
WALL BASE	1/A5.10
RECESSED TOE KICK	
WALL MOUNT CABINETRY; PROVIDE ADJUSTABLE SHELVES WH SHOWN	ERE
GLASS SHOWER ENCLOSURE	
LIGHT FIXTURE	REF RCP
ELECTRICAL RECEPTACLE/OUTLET	REF. ELEC
WINDOW	REF. PLAN
SHOWER SLOT DRAIN	

18 FLUSH TRANSOM TO MATCH ADJ. DOOR/CABINETRY

15 ROBE HOOK, BY OWNER

- 19 UPGR.: BUILT-IN WOOD WARDROBE W/ (2) SWING DOOR PAIRS, AND DRAWERS WHERE SHOWN; CLEAR SEALED, PROVIDE HANGING ROD WHERE SHOWN. PROVIDE AWI PREMIUM GRADE CONSTRUCTION w/ FLUSH OVERLAY DOORS AND DRAWER FRONTS,
- 20 HANGING ROD AND SHELF WHERE SHOWN
- 21 WOOD WALL CAP

17 GUARDRAIL

- 22 WALL MOUNTED 10-SKI/SNOWBOARD STORAGE RACK, MFR. **MONKEY BARS**
- 23 UPGR.: 1-PAIR WALL MOUNTED LOCKER BOOT & GLOVE DRYER, MFR. DRYX., COORDINATE WITH ELEC. FOR ADDITIONAL CONVENIENCE OUTLET LOCATIONS. PROVIDE VENTILATION AT
- 24 FURNITURE, BY OWNER
- 25 WOOD WALL PANEL'G
- 26 UPGR.: BIKE STAND, DUAL-TOUCH #TW004, MFR. TOPEAK
- 27 WALL-MOUNTED TRACK w/ HOOKS AND GARAGE CABINETS, BY
- 28 UPGR.: BUILT-IN BUNK BEDS, ACCESS LADDER AND LIGHT WHERE SHOWN; CLEAR SEALED.
- 29 BUILT-IN BENCH W/ CUSHION
- 30 WASHER/DRYER BOX
- 31 TOWEL RING

10 LOWER LEVEL CORRIDOR

1/2" = 1'-0"

32 SHOWER CURTAIN ROD



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sma project name POWDERCAT

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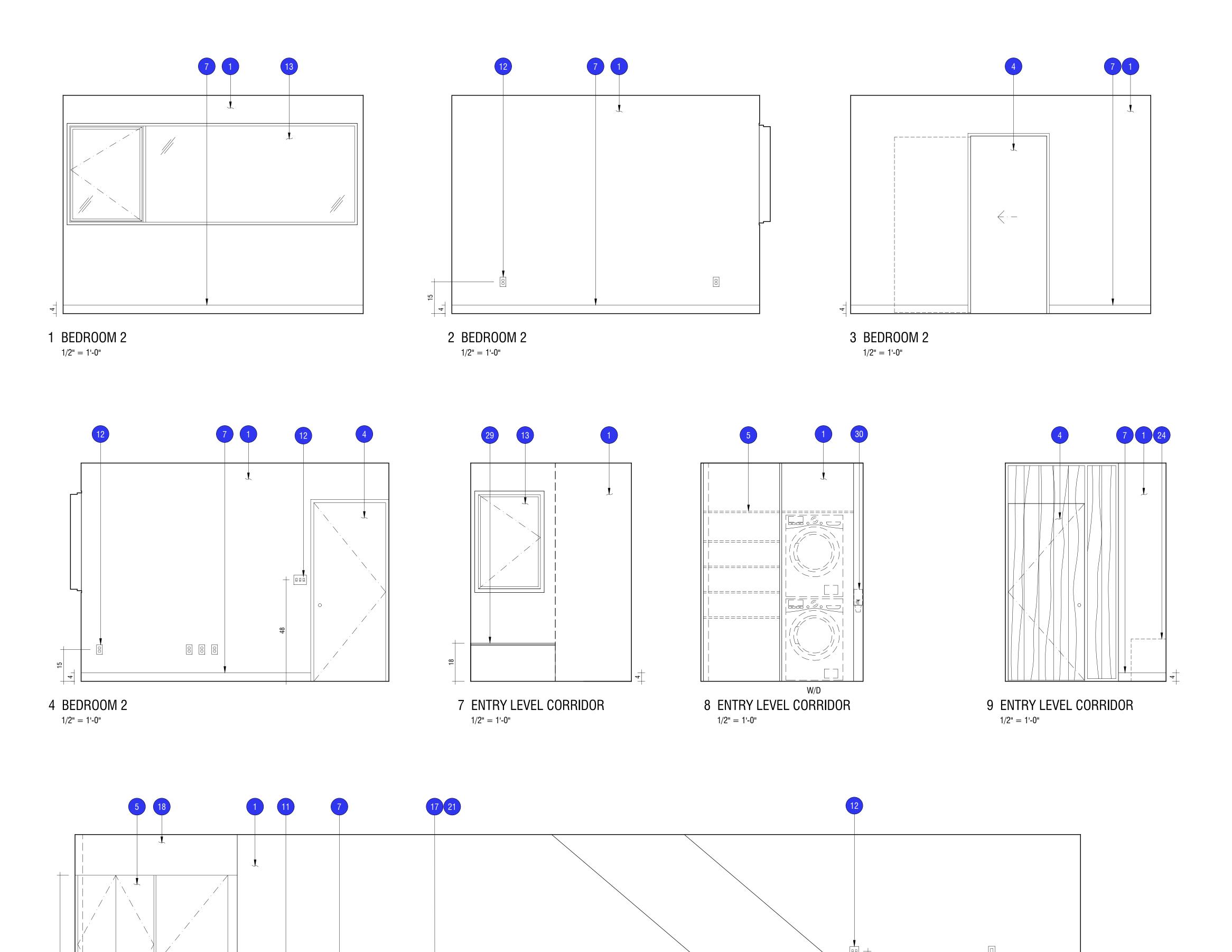
PLAN REVIEW ACCEPTANCE MECHANICAL MPLUMBING
MELECTRICAL MENERGY

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ELEVATIONS

1/2" = 1'-0" scale

PERMIT SET phase / rev



10 ENTRY LEVEL CORRIDOR

1/2" = 1'-0"

GENERAL INTERIOR ELEVATION NOTES

Interior elevations are drawn for typical unit - refer to site plan for mirrored unit conditions and mirror interior elevations accordingly

- 1. Dimensions are to centerlines of fixtures/equipment/accessories, and to face of finish, typ
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- 3. Contractor to field verify all openings and correct any deviations from specified framing tolerances prior to proceeding.
- 4. All backing locations to be reviewed by architect and approved by owner's representative prior to installing sheathing/finishes.

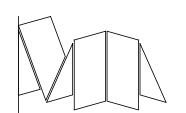
KEYNOTES

31 TOWEL RING

32 SHOWER CURTAIN ROD

"UPGR." designation on keynote tags refers to owner upgrades, refer to specifications for additional information.

#	DESCRIPTION	REF. DTL/SHT
1	PAINTED GWB W/ LEVEL 4 FINISH	
2	TILE	10/A5.10
3	MIRROR	
4	DOOR	REF. PLAN
5	MILLWORK/CABINETRY, PROVIDE ADJUSTABLE SHELVES WHERE SHOWN	
6	MEDICINE CABINET	
7	WALL BASE	1/A5.10
8	RECESSED TOE KICK	
9	WALL MOUNT CABINETRY; PROVIDE ADJUSTABLE SHELVES WHERE SHOWN	
10	GLASS SHOWER ENCLOSURE	
11	LIGHT FIXTURE	REF RCP
12	ELECTRICAL RECEPTACLE/OUTLET	REF. ELEC
13	WINDOW	REF. PLAN
14	SHOWER SLOT DRAIN	
15	ROBE HOOK, BY OWNER	
16	TOWEL BAR, BY OWNER	
17	GUARDRAIL	
18	FLUSH TRANSOM TO MATCH ADJ. DOOR/CABINETRY	
19	UPGR.: BUILT-IN WOOD WARDROBE W/ (2) SWING DOOR PAIRS, AND DRAWERS WHERE SHOWN; CLEAR SEALED, PROVIDE HANGING ROD WHERE SHOWN. PROVIDE AWI PREMIUM GRADE CONSTRUCTION w/ FLUSH OVERLAY DOORS AND DRAWER FRONTS, TYP.	
20	HANGING ROD AND SHELF WHERE SHOWN	
21	WOOD WALL CAP	
22	WALL MOUNTED 10-SKI/SNOWBOARD STORAGE RACK, MFR. MONKEY BARS	
23	UPGR.: 1-PAIR WALL MOUNTED LOCKER BOOT & GLOVE DRYER, MFR. DRYX., COORDINATE WITH ELEC. FOR ADDITIONAL CONVENIENCE OUTLET LOCATIONS. PROVIDE VENTILATION AT BASE.	
24	FURNITURE, BY OWNER	
25	WOOD WALL PANEL'G	
26	UPGR.: BIKE STAND, DUAL-TOUCH #TW004, MFR. TOPEAK	
27	WALL-MOUNTED TRACK w/ HOOKS AND GARAGE CABINETS, BY OWNER	
28	UPGR.: BUILT-IN BUNK BEDS, ACCESS LADDER AND LIGHT WHERE SHOWN; CLEAR SEALED.	
29	BUILT-IN BENCH W/ CUSHION	
30	WASHER/DRYER BOX	



architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name **POWDERCAT**

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DANIEL HOFFMAN

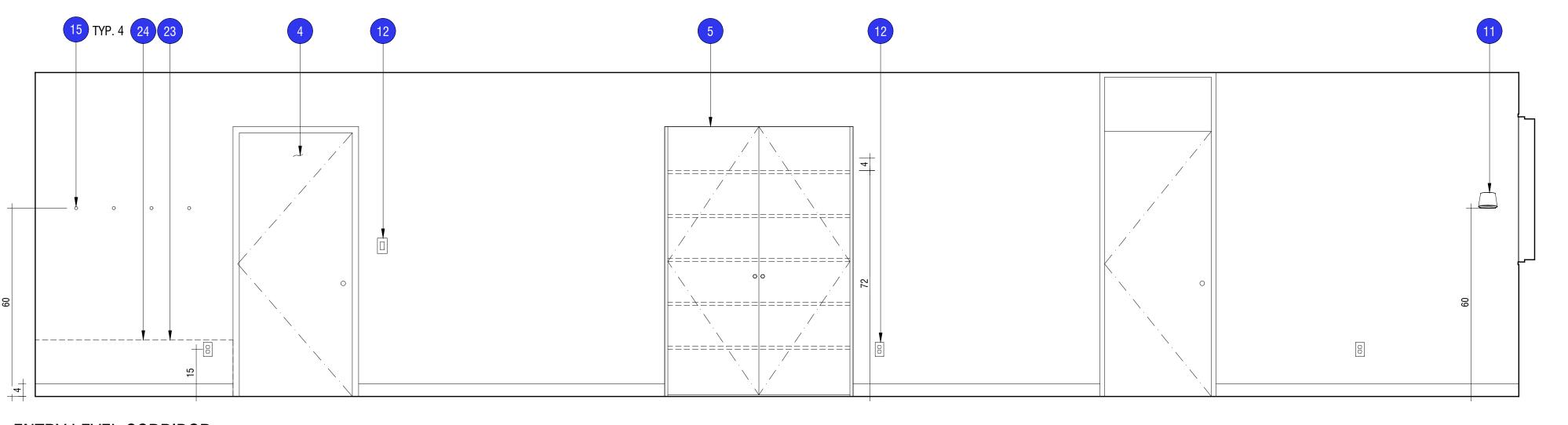
No. 7829867-0301

June 1, 2017

A2.51
INTERIOR
FLEVATIONS

1/2" = 1'-0" scale

PERMIT SET phase / rev



1 ENTRY LEVEL CORRIDOR

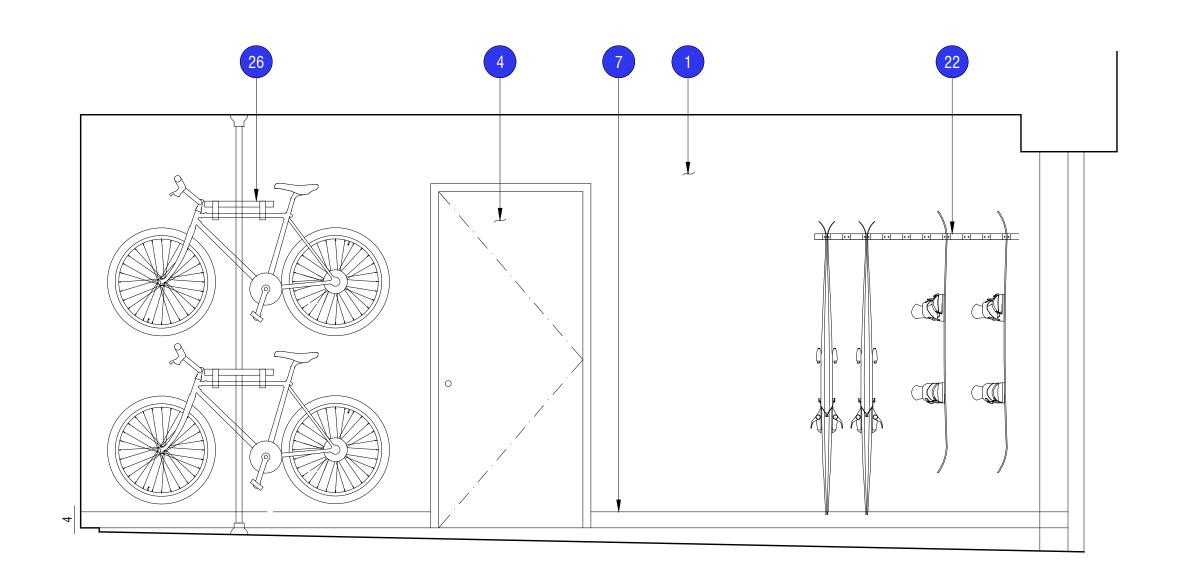
1/2" = 1'-0"

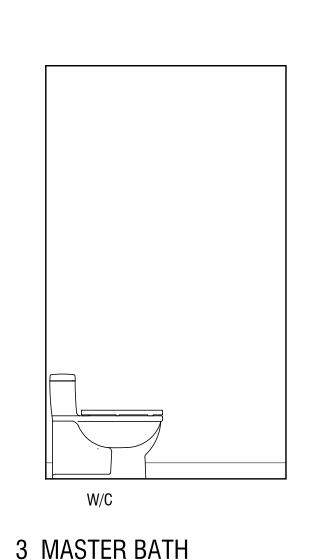
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1/2" = 1'-0"

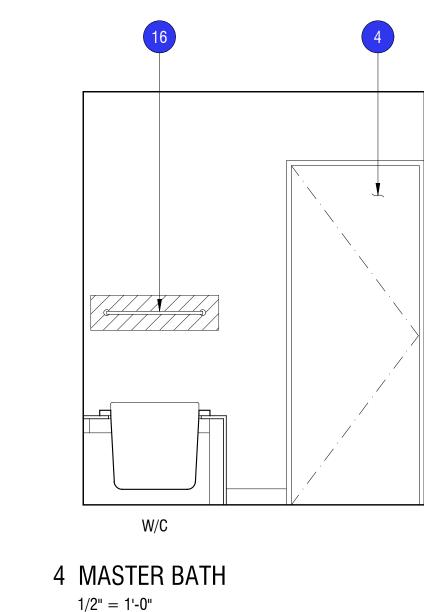
6 MASTER BATH

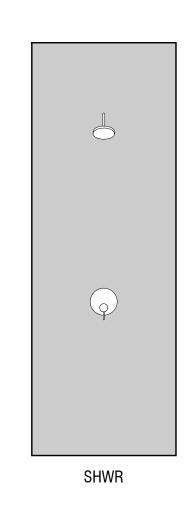
1/2" = 1'-0"

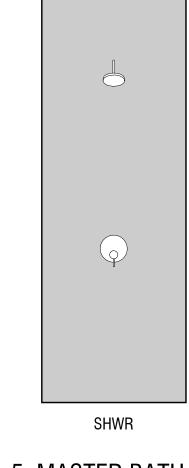




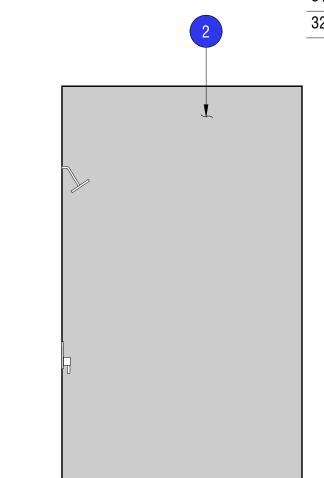
1/2" = 1'-0"

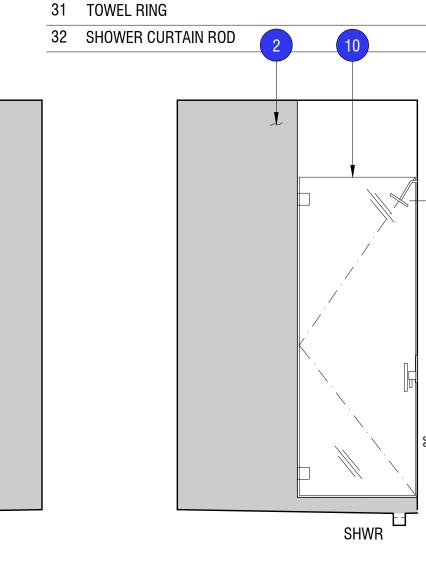












10 MASTER BATH

1/2" = 1'-0"

GENERAL INTERIOR ELEVATION NOTES

1. Dimensions are to centerlines of fixtures/equipment/accessories, and to face of finish, typ

4. All backing locations to be reviewed by architect and approved by owner's representative

2. Provide solid wood backing at all fixtures/equipment/accessories locations, typ.

"UPGR." designation on keynote tags refers to owner upgrades, refer to

MILLWORK/CABINETRY, PROVIDE ADJUSTABLE SHELVES WHERE

WALL MOUNT CABINETRY; PROVIDE ADJUSTABLE SHELVES WHERE

mirror interior elevations accordingly

tolerances prior to proceeding.

specifications for additional information.

PAINTED GWB W/ LEVEL 4 FINISH

KEYNOTES

2 TILE

4 D00R

DESCRIPTION

MIRROR

SHOWN

WALL BASE

SHOWN

11 LIGHT FIXTURE

14 SHOWER SLOT DRAIN

15 ROBE HOOK, BY OWNER

16 TOWEL BAR, BY OWNER

13 WINDOW

17 GUARDRAIL

21 WOOD WALL CAP

MONKEY BARS

24 FURNITURE, BY OWNER 25 WOOD WALL PANEL'G

SHOWN; CLEAR SEALED. 29 BUILT-IN BENCH W/ CUSHION

30 WASHER/DRYER BOX

MEDICINE CABINET

RECESSED TOE KICK

10 GLASS SHOWER ENCLOSURE

12 ELECTRICAL RECEPTACLE/OUTLET

18 FLUSH TRANSOM TO MATCH ADJ. DOOR/CABINETRY

20 HANGING ROD AND SHELF WHERE SHOWN

19 UPGR.: BUILT-IN WOOD WARDROBE W/ (2) SWING DOOR PAIRS,

ROD WHERE SHOWN. PROVIDE AWI PREMIUM GRADE

22 WALL MOUNTED 10-SKI/SNOWBOARD STORAGE RACK, MFR.

26 UPGR.: BIKE STAND, DUAL-TOUCH #TW004, MFR. TOPEAK

27 WALL-MOUNTED TRACK w/ HOOKS AND GARAGE CABINETS, BY

28 UPGR.: BUILT-IN BUNK BEDS, ACCESS LADDER AND LIGHT WHERE

23 UPGR.: 1-PAIR WALL MOUNTED LOCKER BOOT & GLOVE DRYER, MFR. DRYX., COORDINATE WITH ELEC. FOR ADDITIONAL

CONVENIENCE OUTLET LOCATIONS. PROVIDE VENTILATION AT

AND DRAWERS WHERE SHOWN; CLEAR SEALED, PROVIDE HANGING

CONSTRUCTION w/ FLUSH OVERLAY DOORS AND DRAWER FRONTS,

prior to installing sheathing/finishes.

16 TYP. 2	

LAV



Interior elevations are drawn for typical unit - refer to site plan for mirrored unit conditions and

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> sma project no. 16-101

REF. DTL/SHT

10/A5.10

REF. PLAN

1/A5.10

REF RCP

REF. ELEC

REF. PLAN

sma project name POWDERCAT

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> No. 7829867-0301 June 1, 2017

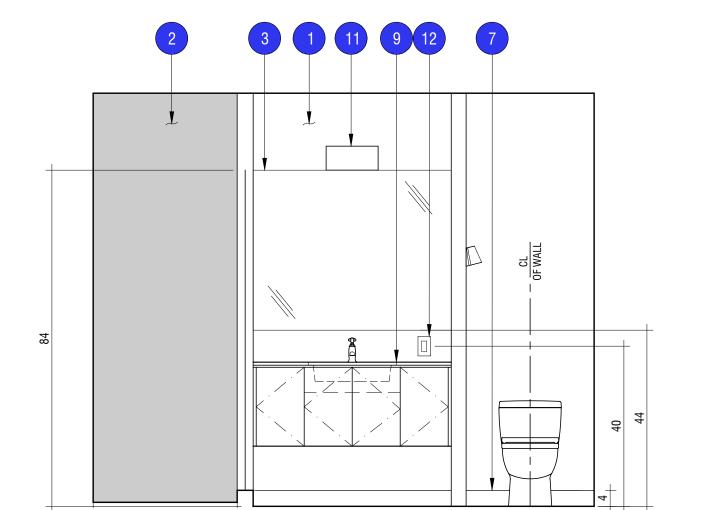
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ELEVATIONS

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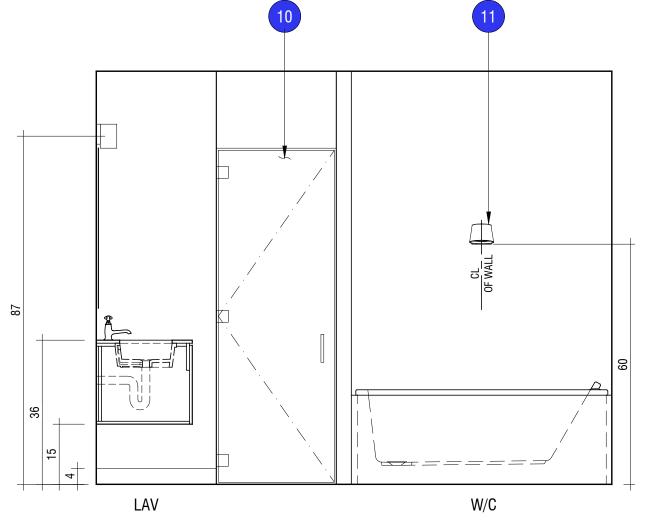
PERMIT SET phase / rev

2017.06.01 date



LAV

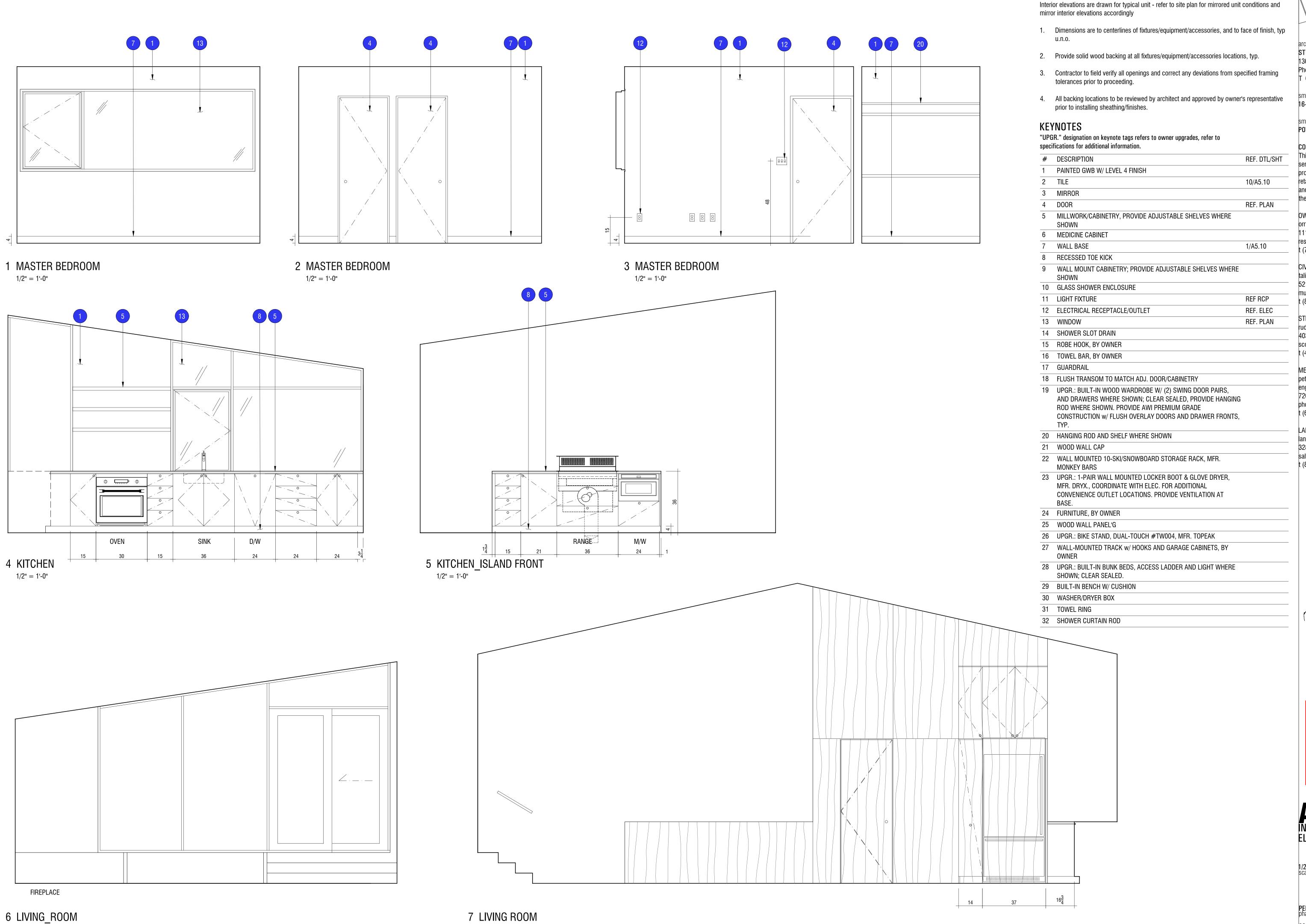
W/C



7 MASTER BATH

1/2" = 1'-0"

8 MASTER BATH 1/2" = 1'-0"



GENERAL INTERIOR ELEVATION NOTES

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sma project no.

sma project name POWDERCAT

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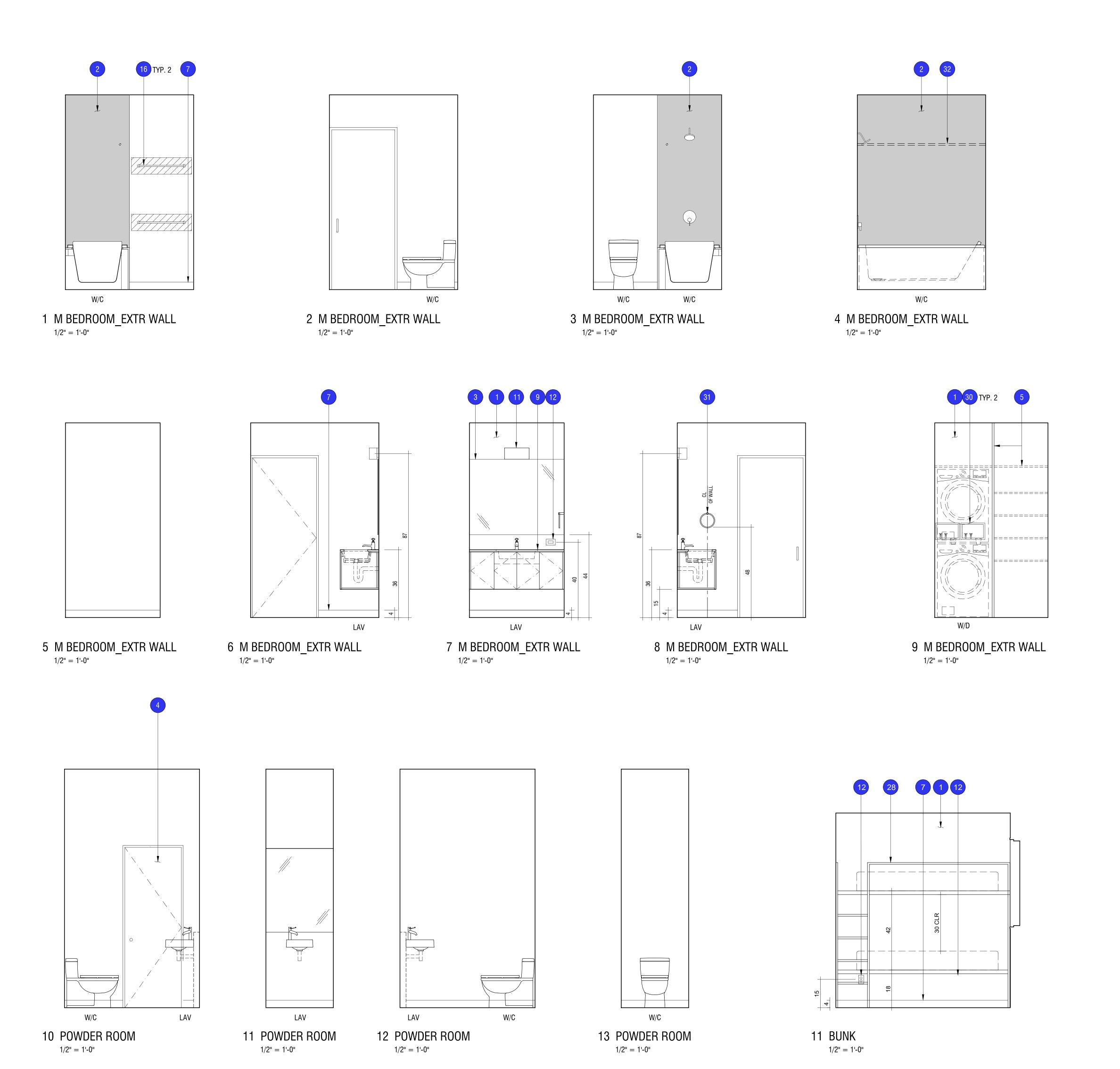
A2.53
INTERIOR ELEVATIONS

1/2" = 1'-0" scale

PERMIT SET phase / rev **2017.06.01** date

1/2" = 1'-0"

1/2" = 1'-0"



GENERAL INTERIOR ELEVATION NOTES

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KEYNOTES

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#	DESCRIPTION	REF. DTL/SHT
1	PAINTED GWB W/ LEVEL 4 FINISH	
2	TILE	10/A5.10
3	MIRROR	
4	D00R	REF. PLAN
5	MILLWORK/CABINETRY. PROVIDE ADJUSTABLE SHELVES WHERE	

- SHOWN
- 7 WALL BASE
- 9 WALL MOUNT CABINETRY; PROVIDE ADJUSTABLE SHELVES WHERE SHOWN

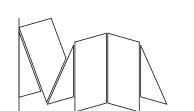
13	WINDOW	REF. PLAN
12	ELECTRICAL RECEPTACLE/OUTLET	REF. ELEC
11	LIGHT FIXTURE	REF RCP
10	GLASS SHOWER ENCLOSURE	

14 SHOWER SLOT DRAIN
15 ROBE HOOK, BY OWNER

MEDICINE CABINET

RECESSED TOE KICK

- 16 TOWEL BAR, BY OWNER
- 17 GUARDRAIL
- 18 FLUSH TRANSOM TO MATCH ADJ. DOOR/CABINETRY
- 19 UPGR.: BUILT-IN WOOD WARDROBE W/ (2) SWING DOOR PAIRS,
 AND DRAWERS WHERE SHOWN; CLEAR SEALED, PROVIDE HANGING
 ROD WHERE SHOWN. PROVIDE AWI PREMIUM GRADE
 CONSTRUCTION w/ FLUSH OVERLAY DOORS AND DRAWER FRONTS,
- 20 HANGING ROD AND SHELF WHERE SHOWN
- 21 WOOD WALL CAP
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- 24 FURNITURE, BY OWNER
- 25 WOOD WALL PANEL'G
- 26 UPGR.: BIKE STAND, DUAL-TOUCH #TW004, MFR. TOPEAK
- 27 WALL-MOUNTED TRACK w/ HOOKS AND GARAGE CABINETS, BY
- 28 UPGR.: BUILT-IN BUNK BEDS, ACCESS LADDER AND LIGHT WHERE SHOWN; CLEAR SEALED.
- 29 BUILT-IN BENCH W/ CUSHION
- 30 WASHER/DRYER BOX
- 31 TOWEL RING
- 32 SHOWER CURTAIN ROD



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T 602 251 3800

sma project no.

sma project name POWDERCAT

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1/A5.10

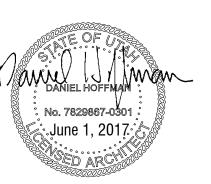
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phoenix, az 85020
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BY: MEM DATE: 07/21/17

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A2.54
INTERIOR
ELEVATIONS

1/2" = 1'-0" scale

PERMIT SET phase / rev



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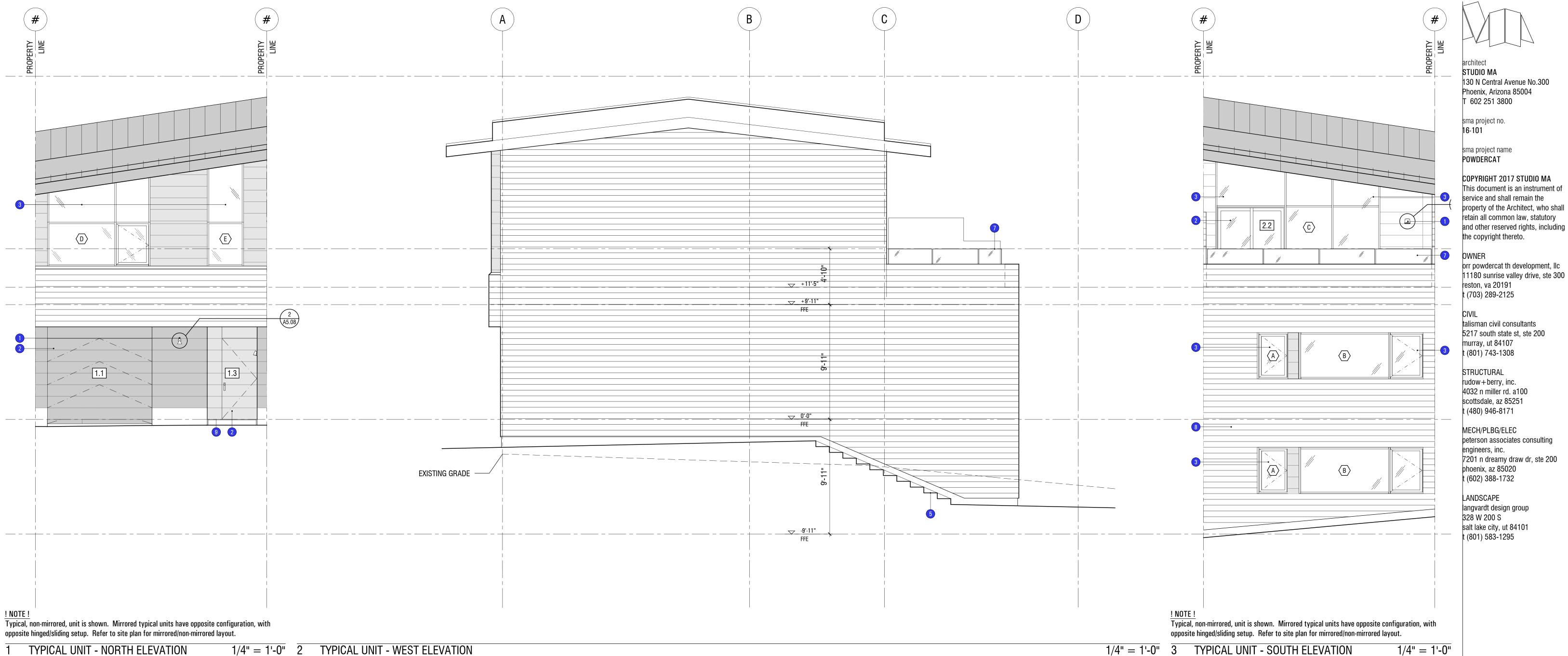
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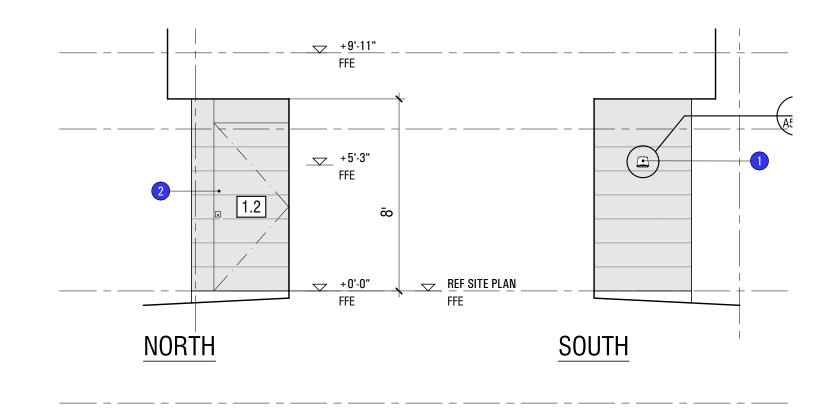
1/8" = 1'-0"

! NOTE!



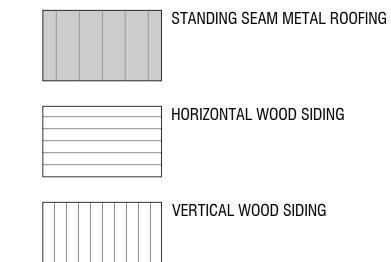
TYPICAL UNIT - NORTH ELEVATION

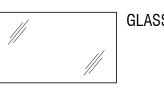
1/4" = 1'-0" 2 TYPICAL UNIT - WEST ELEVATION



MATERIALS LEGEND

GENERAL NOTE: Refer to specifications sheet a0.20 - a0.21 for additional material information and installation requirements.





HORIZONTAL METAL WALL PANELS

GENERAL EXTERIOR ELEVATION NOTES

- 1. Refer to 'general sheets' for general notes, symbols, legends, and abbreviations
- 2. Dimensions are to centerlines of fixtures/equipment/accessories, and to face of finish, typ u.n.o.
- 3. Refer to building plans for window and door locations. Refer to sheets A6.10-A6.11 for window and door schedule and elevations.
- 4. Contractor to field verify all openings and correct any deviations from specified framing tolerances prior to proceeding.
- 5. Refer to roof plan for location of snow guards, roof details, pipe penetrations, and other roof accessories.
- 6. Refer to wall sections and wall assembly details for additional wall construction information.
- 7. Typical throughout Ensure materials transitions and joints are aligned as indicated, and planned to avoid awkward conditions; i.e. adjust window/door layouts to avoid cutting/notching wood cladding; locate seams, joints, and fasteners to be even, aligned, and centered, u.n.o.

EXTERIOR ELEVATION KEYNOTES		
#	DESCRIPTION	REF. DTL/SHT
1	LIGHT FIXTURE - REF RCP	
2	DOOR - REF PLAN	
3	WINDOW - REF PLAN	
4	DEFS SOFFIT, PAINTED	8/A5.09
5	FUTURE SITE STAIR	
6	FUTURE ROOF & BUILDING	
7	GLASS GUARDRAIL	2/A5.07
8	CUSTOM METAL FABRICATION FPR COMBINATION DRYER	

1/4" = 1'-0"

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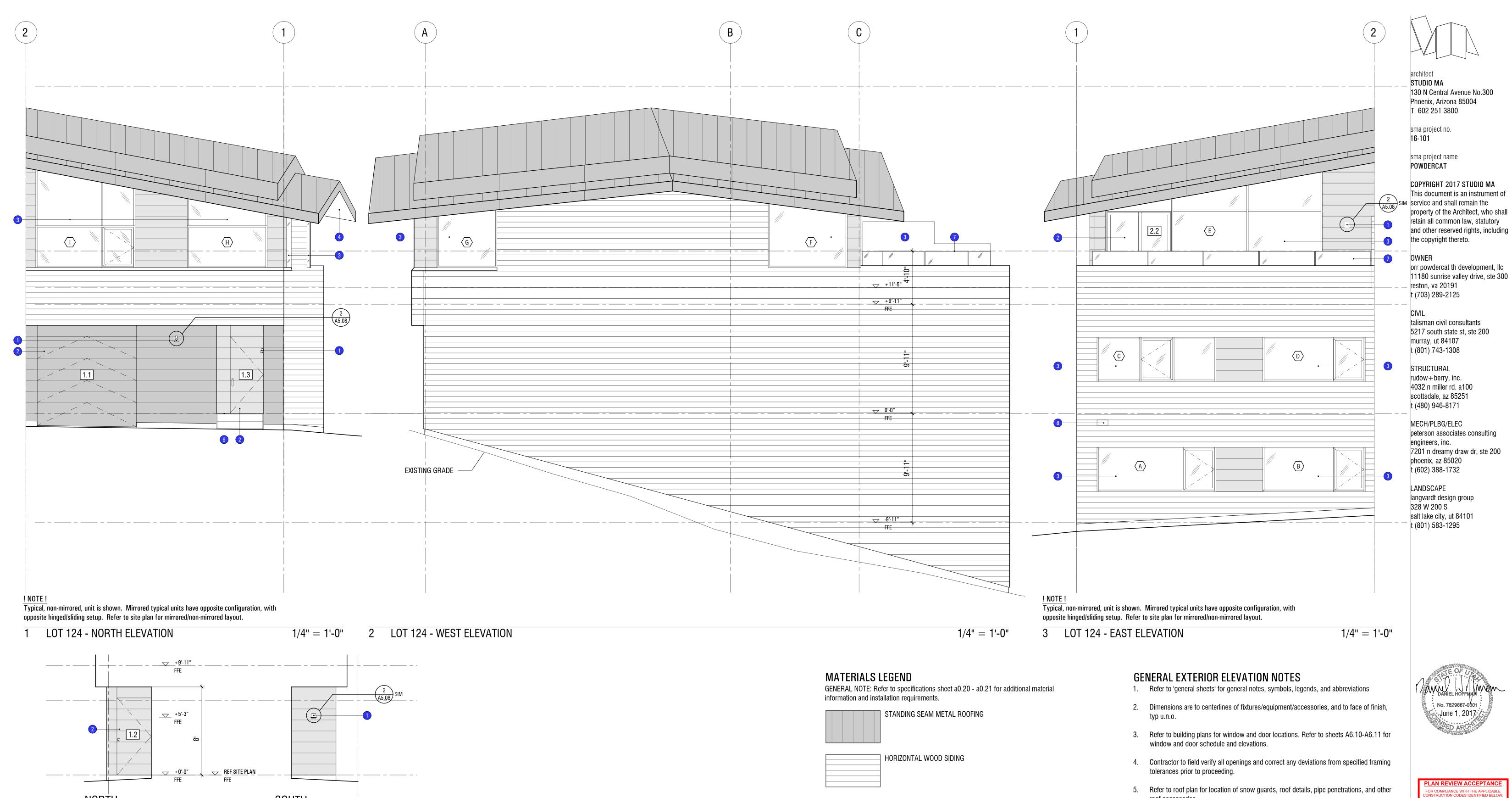
BY: MEM

FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW

EXHAUST/BATHROOM EXHAUST TERMINATION 9 CAST IN PLACE CONCRETE: REF SPEC FOR FINISH **2017.06.01** date

Typical, non-mirrored, unit is shown. Mirrored typical units have opposite configuration, with opposite hinged/sliding setup. Refer to site plan for mirrored/non-mirrored layout.

4 TYPICAL UNIT - HIDDEN ELEVATIONS @ ENTRY



VERTICAL WOOD SIDING

HORIZONTAL METAL WALL PANELS

Typical, non-mirrored, unit is shown. Mirrored typical units have opposite configuration, with opposite hinged/sliding setup. Refer to site plan for mirrored/non-mirrored layout.

4 LOT 124 - HIDDEN ELEVATIONS @ ENTRY

NORTH

1/4" = 1'-0"

SOUTH

- 5. Refer to roof plan for location of snow guards, roof details, pipe penetrations, and other roof accessories.
- 6. Refer to wall sections and wall assembly details for additional wall construction information.
- 7. Typical throughout Ensure materials transitions and joints are aligned as indicated, and planned to avoid awkward conditions; i.e. adjust window/door layouts to avoid cutting/notching wood cladding; locate seams, joints, and fasteners to be even, aligned,

#	DESCRIPTION	REF. DTL/SHT
1	LIGHT FIXTURE - REF RCP	
2	DOOR - REF PLAN	
3	WINDOW - REF PLAN	
4	DEFS SOFFIT, PAINTED	8/A5.09
5	FUTURE SITE STAIR	
6	FUTURE ROOF & BUILDING	
7	GLASS GUARDRAIL	2/A5.07

8 CUSTOM METAL FABRICATION FPR COMBINATION DRYER

EXHAUST/BATHROOM EXHAUST TERMINATION

9 CAST IN PLACE CONCRETE: REF SPEC FOR FINISH

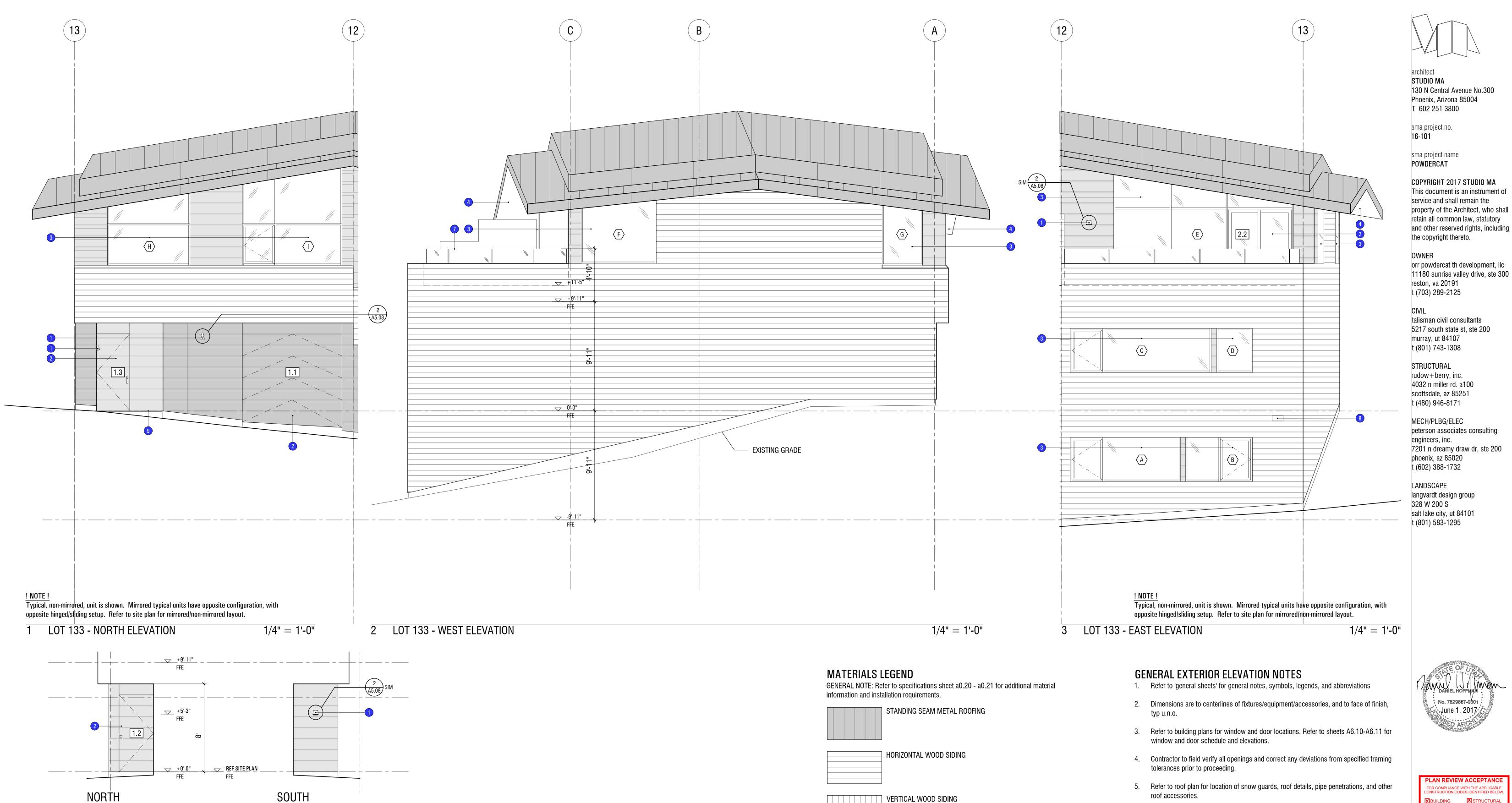
1/4" = 1'-0"

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2017.06.01



VERTICAL WOOD SIDING

HORIZONTAL METAL WALL PANELS

- roof accessories.
- 6. Refer to wall sections and wall assembly details for additional wall construction information.
- 7. Typical throughout Ensure materials transitions and joints are aligned as indicated, and planned to avoid awkward conditions; i.e. adjust window/door layouts to avoid cutting/notching wood cladding; locate seams, joints, and fasteners to be even, aligned, and centered, u.n.o.

EXTERIOR	ELEVATION	KEYNOTES

EX	TERIOR ELEVATION KEYNOTES	
#	DESCRIPTION	REF. DTL/SHT
1	LIGHT FIXTURE - REF RCP	
2	DOOR - REF PLAN	
3	WINDOW - REF PLAN	
4	DEFS SOFFIT, PAINTED	8/A5.09
5	FUTURE SITE STAIR	
6	FUTURE ROOF & BUILDING	
7	GLASS GUARDRAIL	2/A5.07
8	CUSTOM METAL FABRICATION FPR COMBINATION DRYER	
	EXHAUST/BATHROOM EXHAUST TERMINATION	
9	CAST IN PLACE CONCRETE; REF SPEC FOR FINISH	

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1/4" = 1'-0"

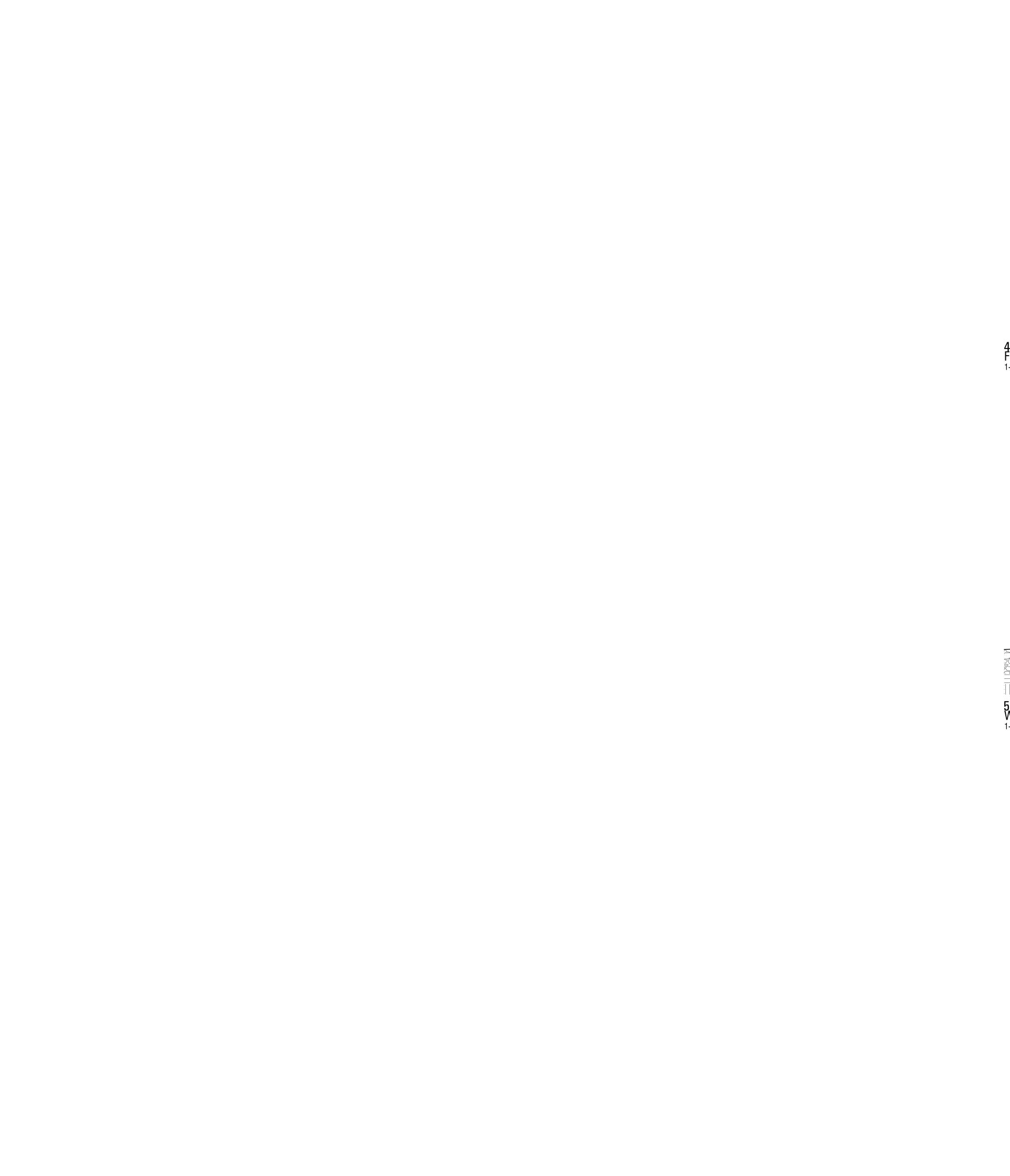
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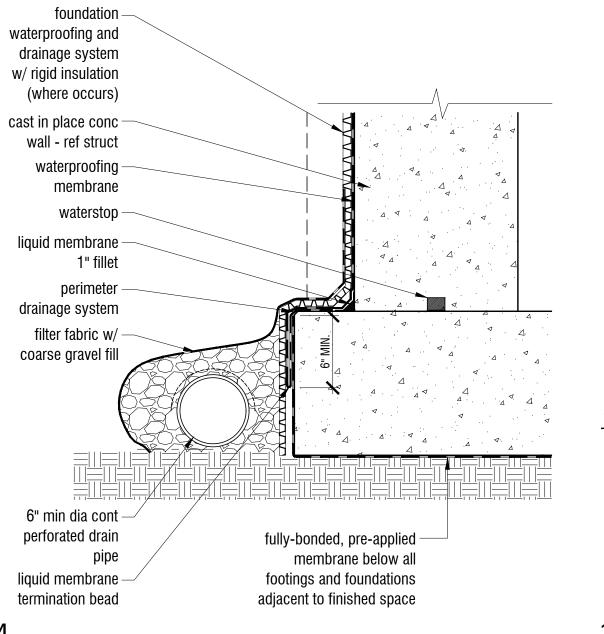
Typical, non-mirrored, unit is shown. Mirrored typical units have opposite configuration, with opposite hinged/sliding setup. Refer to site plan for mirrored/non-mirrored layout.

___ - __ - __ - __ - __ - __ - __ - __ - __ - __ - __ - __ - __ - __ - __ - __ - __ - __ - __ - __ - __ - __

4 LOT 133 - HIDDEN ELEVATIONS @ ENTRY

1/4" = 1'-0"





KEYED NOTES

wood cladding

o/ p/t furring o/

cont insulation

waterproofing

membrane on

face of conc

wall - cont

ref struct

waterstop at

batt insulation

at int furred

int finish - ref

self-adhesive

flashing tape

wall

plan

flexible

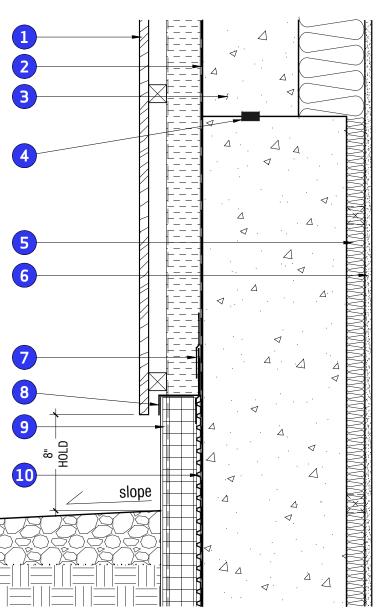
sstl 'zee'

flashing
9. cont rigid
insulation
10. below-grade
foundation
waterproofing
and drainage
system

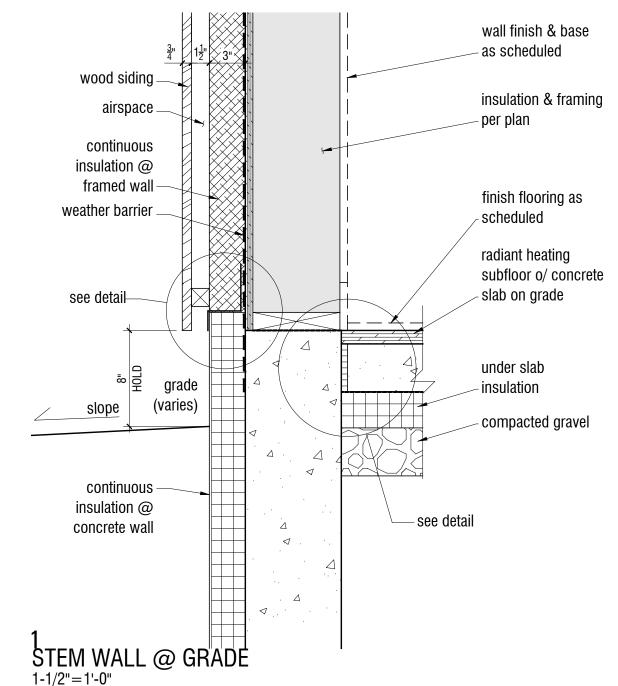
cold joints, typ

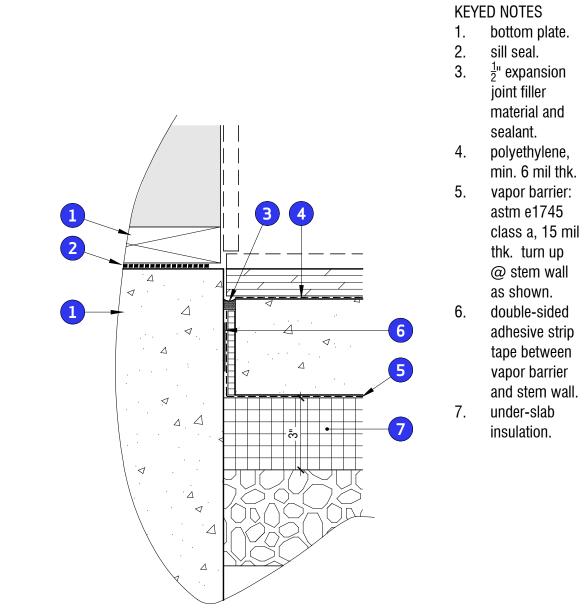
c.i.p. conc wall

FOUNDATION DRAINAGE AND WATERPROOFING

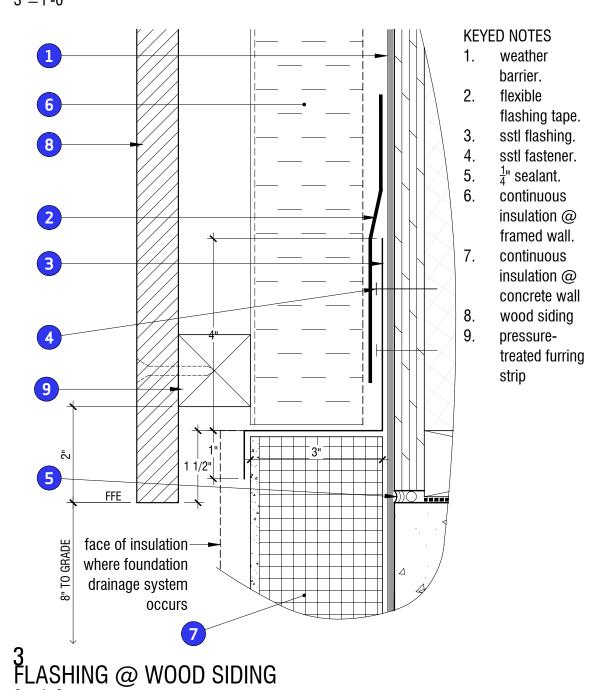


5 WOOD CLADDING OVER FOUNDATION WALL 1-1/2"=1'-0"





2 SLAB EDGE @ STEM WALL 3"=1'-0"



GENERAL NOTE: WHERE WOOD CLADDING IS INDICATED, CONDITIONS ARE SIMILAR FOR OPPOSITE ORIENTATION; I.E. VERTICALLY OR HORIZONTALLY. REFER TO EXTERIOR ELEVATIONS FOR CLADDING ORIENTATION, TYPICAL U.N.O.

architect STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 1**6-101**

sma project name
POWDERCAT

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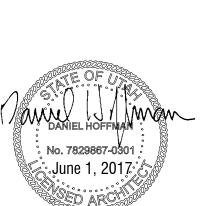
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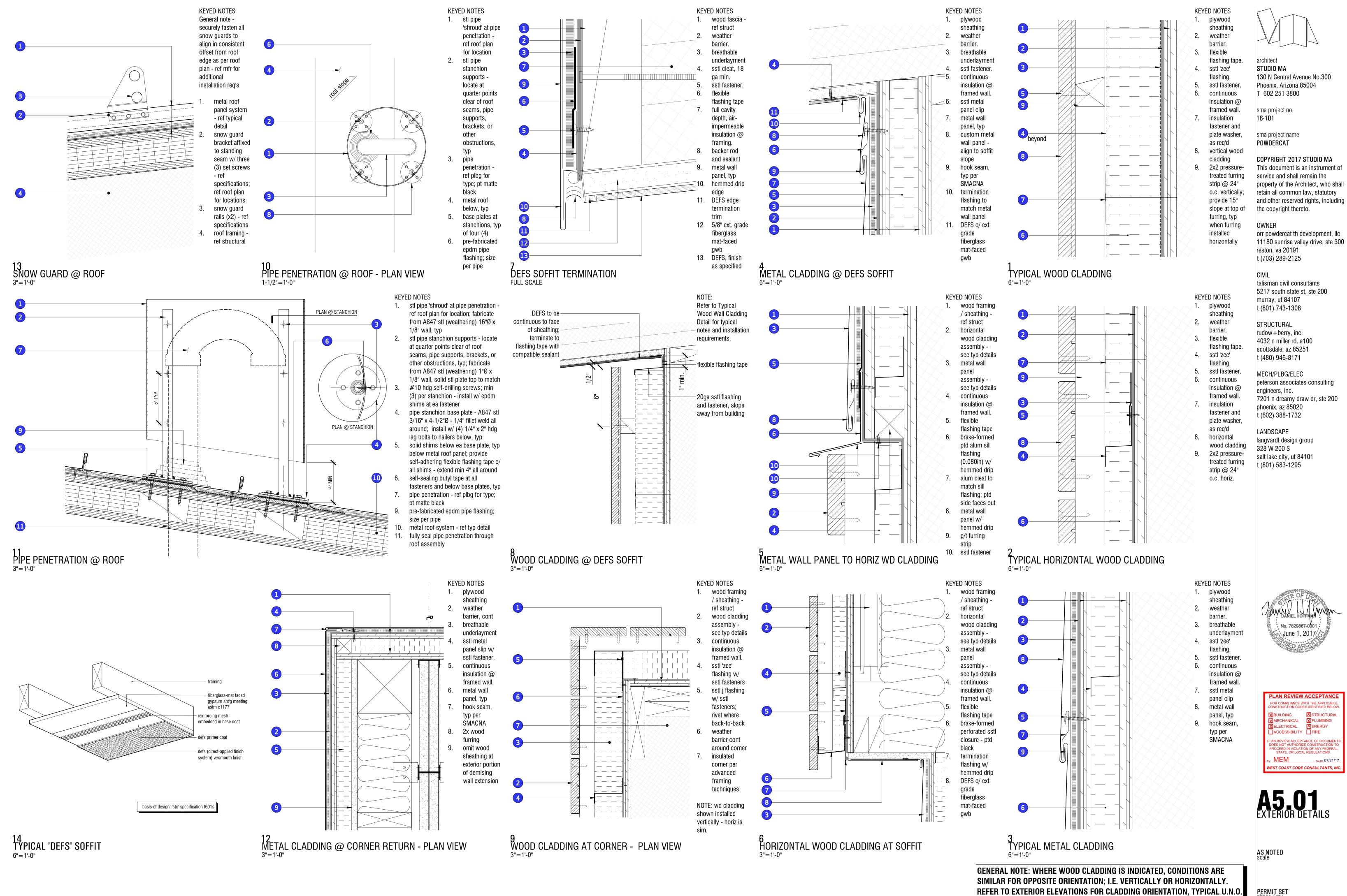
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A5.00 FOUNDATION DETAILS

AS NOTED scale

PERMIT SET phase / rev



viii SEI e / rev 7.06.01

KEYED NOTES metal cladding assembly - ref typical detail 3. continuous insulation @ framed 4. 2x wood buck - size to align inside face of jamb w/ interior finish interior finish as scheduled backer rod and sealant cleat and sstl fastener flexible flashing tape 10. self-adhering flashing - fully wrap head/jamb/sill of opening 11. window jamb w/ integral nailing sealant 12. brake-formed metal cladding to match wall panels 13. 2x p/t nailer 14. terminate metal cladding in hook seam w/ cont bead of sealantl 15. sill below 16. sstl cleat and fastener, typ 17. 3/4" ext grade plywood - extend to shim to true/plumb WINDOW JAMB @ METAL CLADDING

8 13 wood framing / sheathing - ref struct weather barrier, cont around framing metal termination lock seam w/ sstl flange - set in continuous bead of within 1/4" of nail flange at window; WINDOW JAMB @ WOOD CLADDING 8 13

WINDOW SILL @ WOOD CLADDING

KEYED NOTES (Refer to Typ Jamb Detail for notes and dimensions not indicated here.) 5. 2x wood buck - size to align inside 10. window jamb w/ integral nailing 11. brake-formed alum (0.080in) 12. p/t shaped blocking 13. cont alum cleat - (0.080in) w/ sstl 14. 1-1/8" ext grade plywood 15. expanding foam insulation - typ all 16. 3/16" thk (min.) x 1" dia high WINDOW HEAD @ WOOD CLADDING

KEYED NOTES wood cladding assembly - ref detail wood framing / sheathing - ref struct

cont insulation @ framed wall 4. 2x wood buck - size to align inside face of jamb w/ interior finish interior finish as scheduled ptd alum 'z' trim w/ 1/4" leg (Fry

wood cladding assembly - ref

cont insulation @ framed wall

face of jamb w/ interior finish

weather barrier, cont around framing

self-adhering flashing - fully wrap

flange - set in continuous bead of

two-piece head flashing w/ hemmed

drip edge as indicated - pnt to match

durometer EPDM washer/space @

each fastener thru head flashing, typ

jamb flashing beyond

backer rod and sealant

flexible flashing tape

sealant

window

fastener, typ

around shim spaces

head/jamb/sill of opening

typical detail

Reglet DRMZ-625-25, or eq) backer rod and sealant weather barrier, cont around framing flexible flashing tape

self-adhering flashing - fully wrap head/jamb/sill of opening 11. window jamb w/ integral nailing flange - set in continuous bead of sealant

12. brake-formed alum (0.080in) trim/cladding - pnt to match window 13. p/t nailer - align w/ edge of wood

14. cantilevered wood cladding - fasten

15. sill below 16. sstl fastener, typ

17. sstl 'zee' flashing, ptd black 18. 1-1/8" ext grade plywood - extend to within 1/4" of nail flange at window;

shim to true/plumb 19. 3/16" thk (min.) x 1" dia high durometer EPDM washer/space @ each fastener thru head flashing, typ

KEYED NOTES (Refer to Typ Jamb Detail for notes and dimensions not indicated here.) 1. wood cladding assembly - ref

typical detail wood framing / sheathing - ref struct cont insulation @ framed wall jamb flashing beyond

2x wood buck - size to align inside face of jamb w/ interior finish

backer rod and sealant weather barrier, cont around framing flexible flashing tape

self-adhering flashing - fully wrap head/jamb/sill of opening 10. window jamb w/ integral nailing flange - set in continuous bead of sealant

11. brake-formed alum (0.080in) sill flashing w/ hemmed drip edge as indicated - pnt to match window

12. p/t shaped blocking 13. cont alum cleat - (0.080in) w/ sstl

fastener, typ 14. 5/8" ext grade plywood

15. expanding foam insulation - typ all around shim spaces

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wood framing / sheathing - ref struct

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sma project name POWDERCAT

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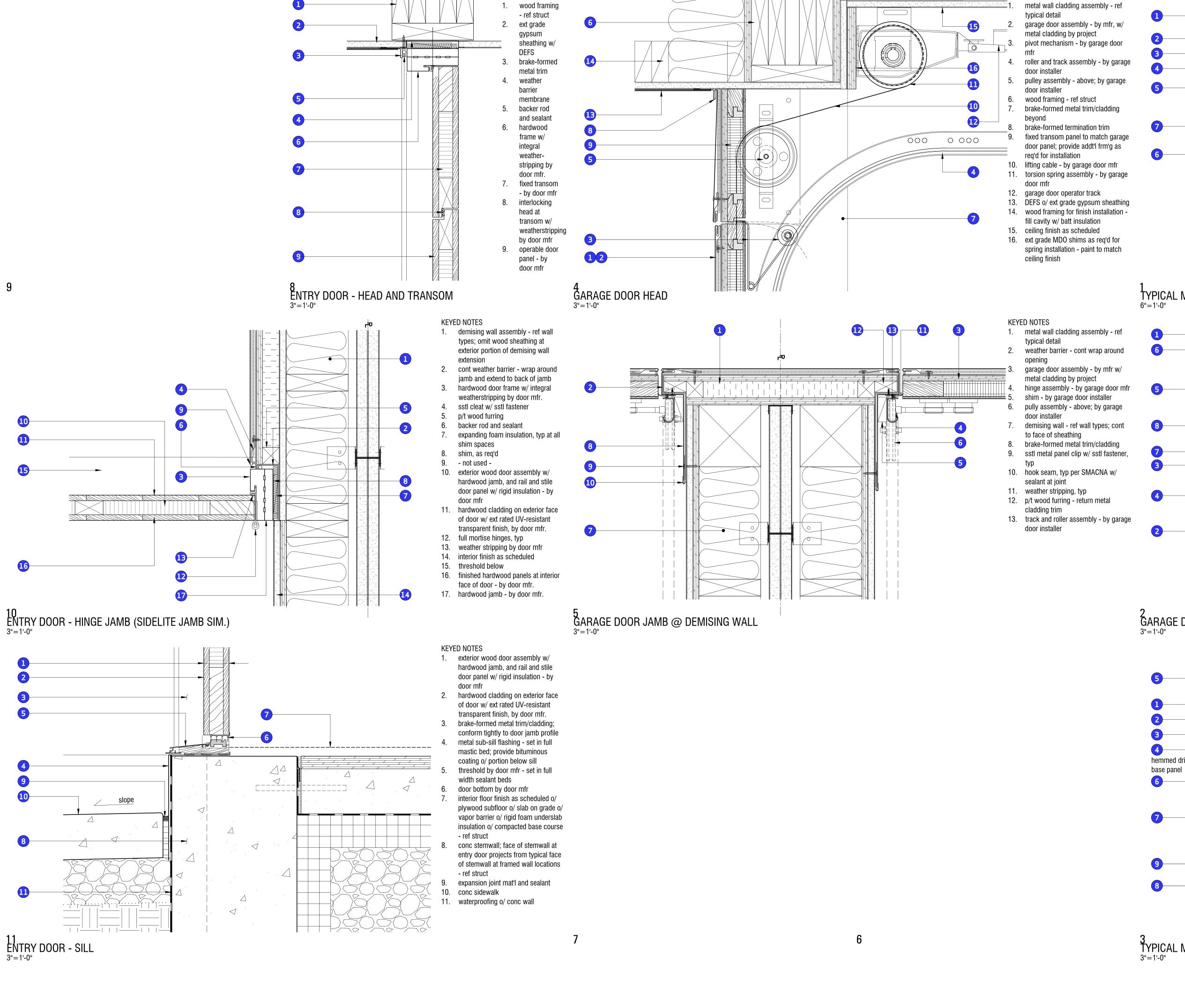
A5.02 EXTERIOR DETAILS

AS NOTED scale

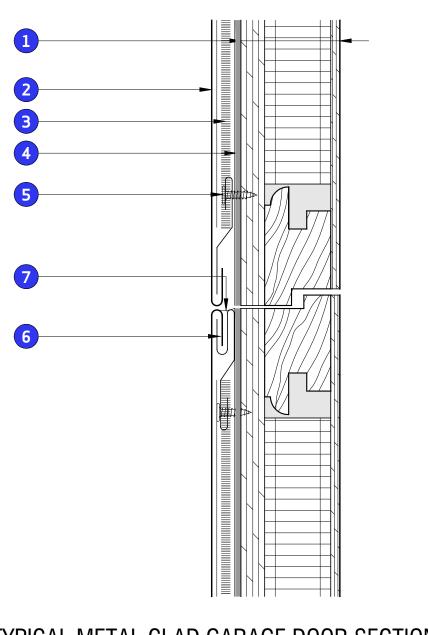
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11

10

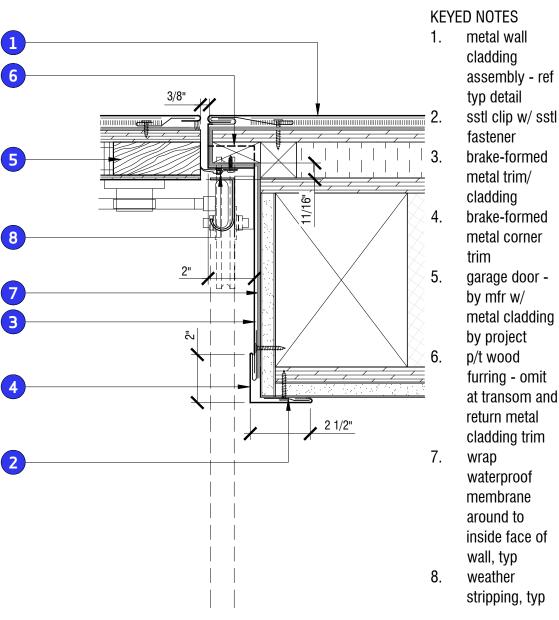


KEYED NOTES

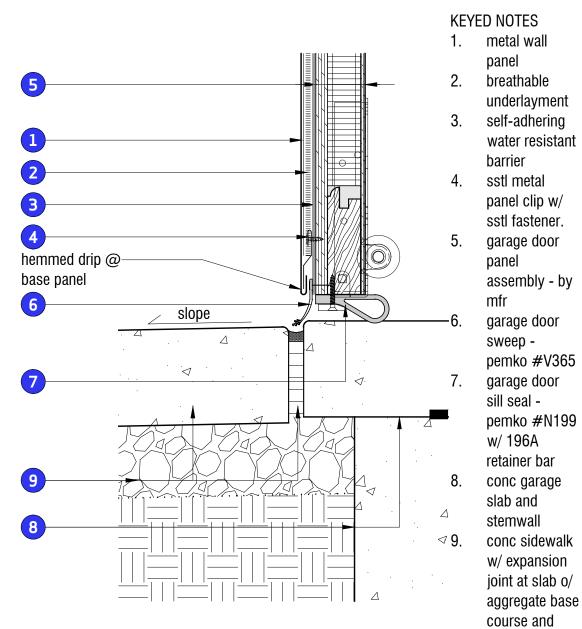


KEYED NOTES

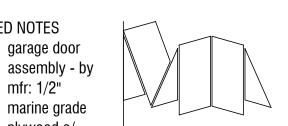
TYPICAL METAL CLAD GARAGE DOOR SECTION



GARAGE DOOR JAMB @ SHEARWALL



TYPICAL METAL CLAD GARAGE DOOR SECTION



KEYED NOTES

1. garage door

mfr: 1/2"

plywood o/

polystyrene

core o/ 3/16"

exterior grade

plywood liner

w/ hardwood

stile and rail

construction.

underlayment

panel, typ 3. breathable

4. self-adhering

resistant

panel clip w/

sstl fastener

6. sstl top cleat -

hand-brake

edge as req'd

top panel

cont sealant

barrier

5. sstl metal

water

panel

2. metal wall

insulation

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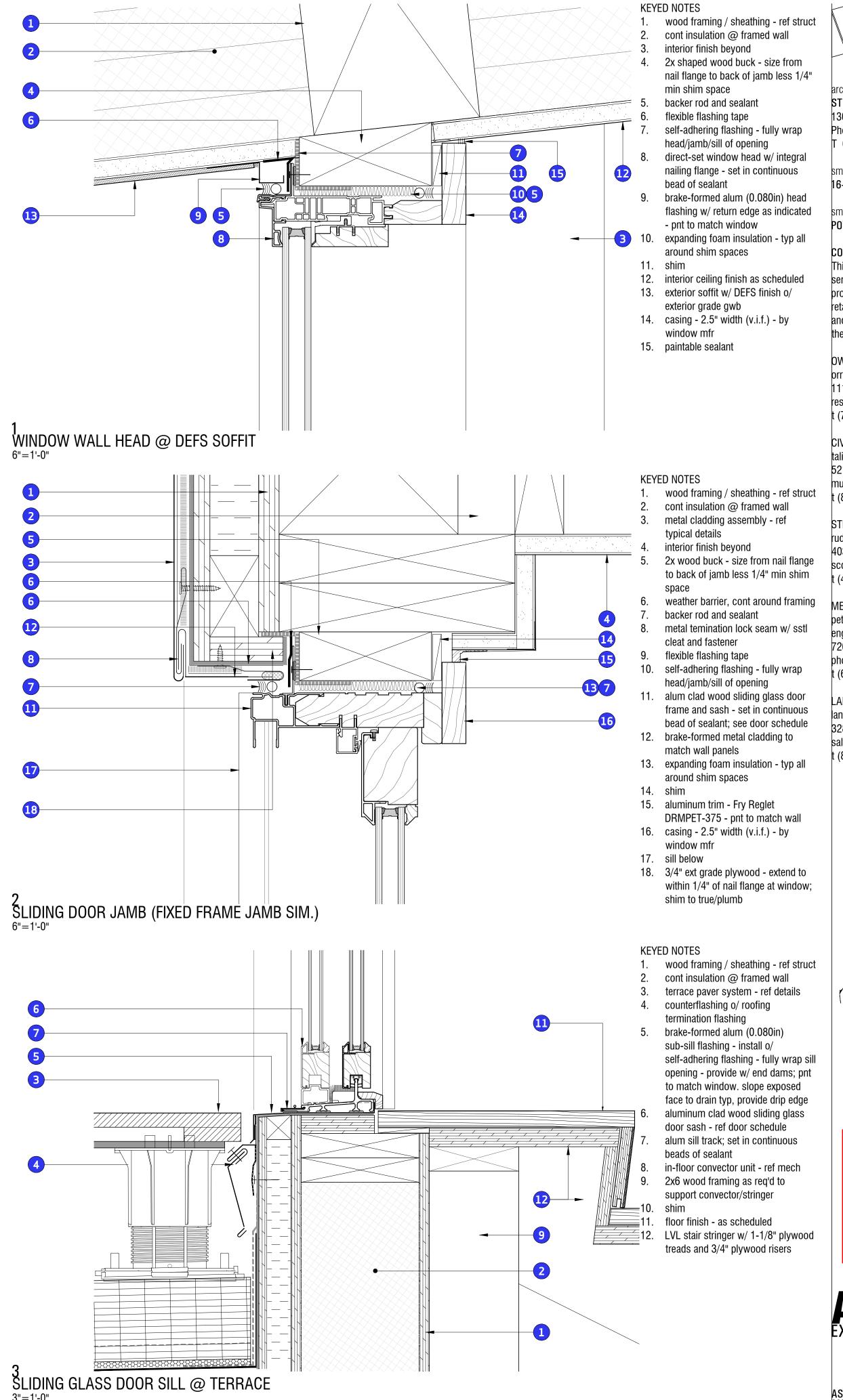
A5.03 EXTERIOR DETAILS

AS NOTED

subgrade, typ

PERMIT SET phase / rev **2017.06.01** date





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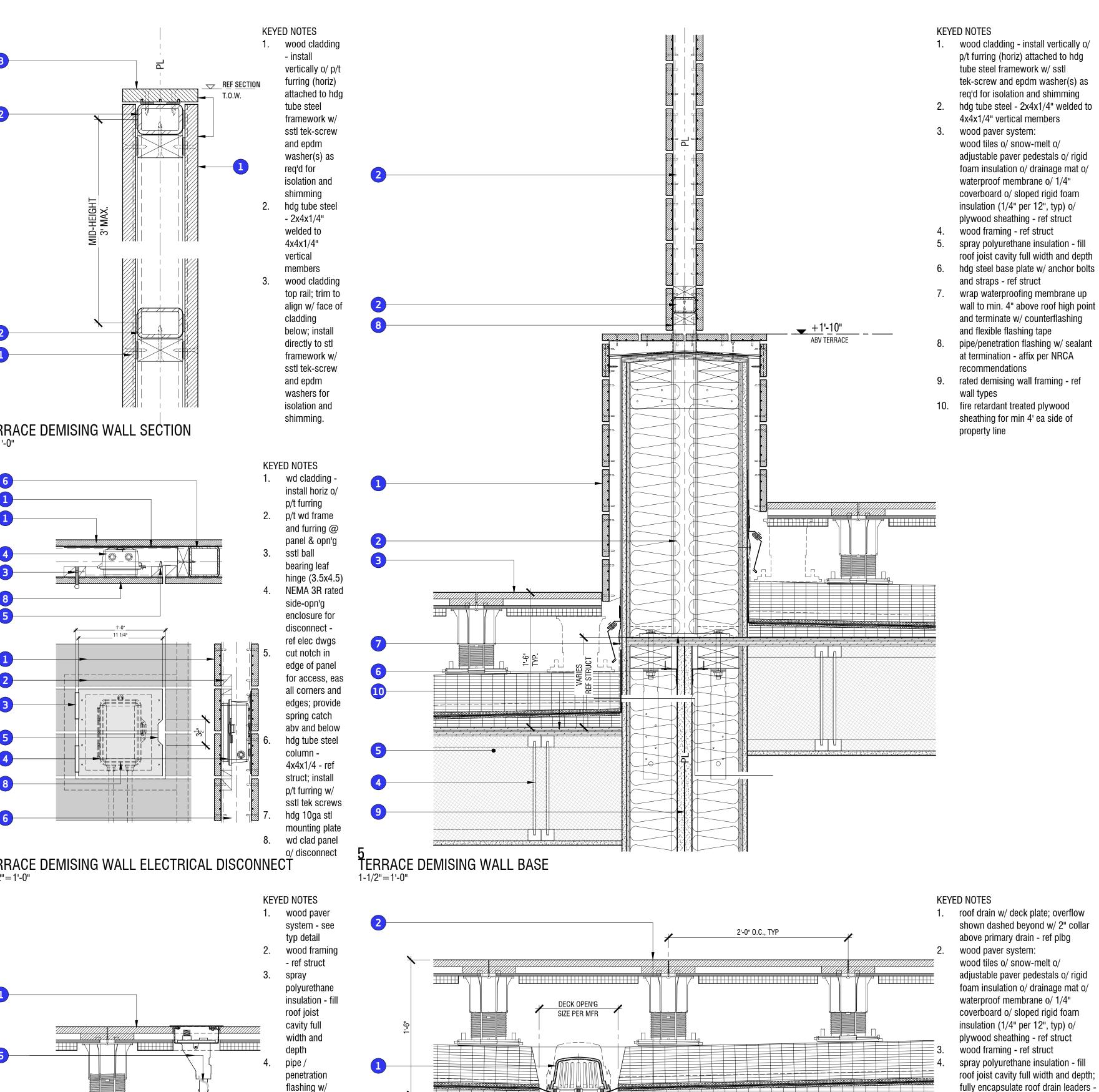
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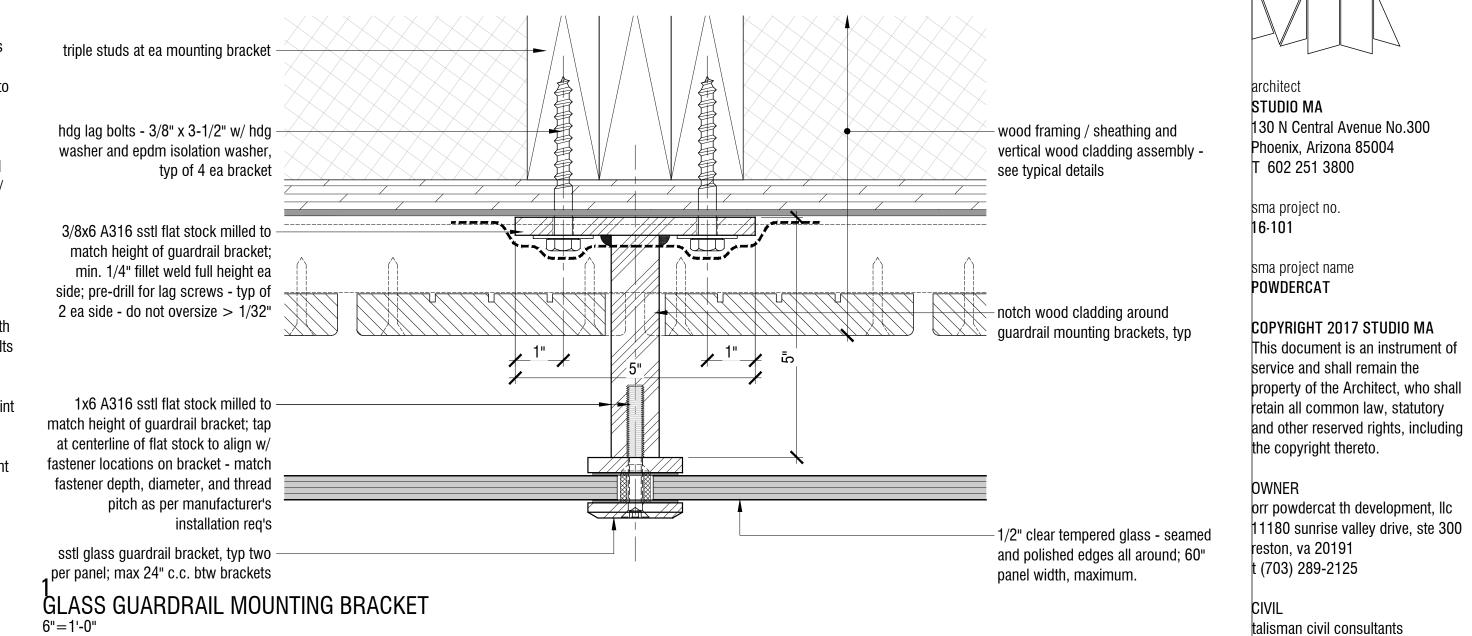
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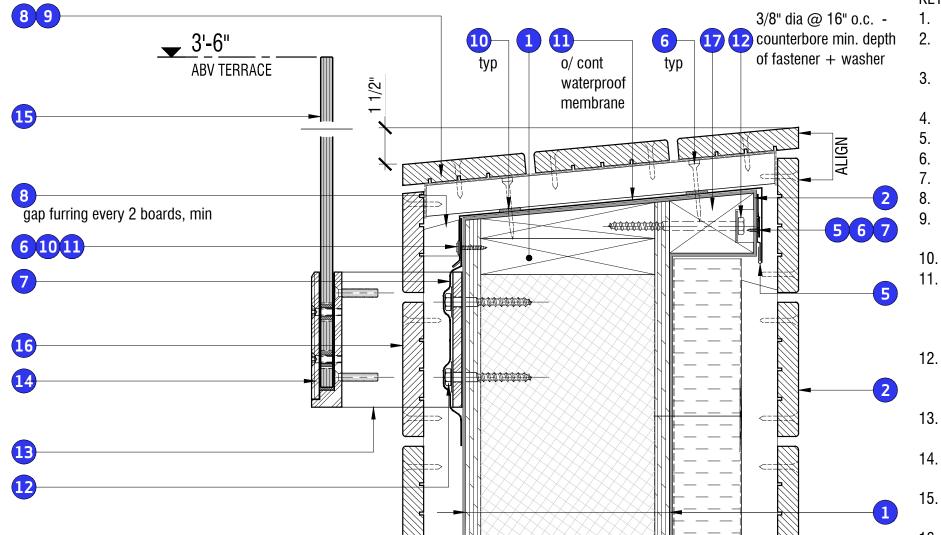
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⊠ n l n l⊗ 1/8" / FT, MIN.





23'-4" (T.O. PLATE)
ABV ENTRY ELEV (0'-0")

GLASS GUARDRAIL - SECTION

TERRACE SYSTEM @ GUARDRAIL

3/8" dia @ 16" o.c. - 1. wood framing / sheathing - ref struct vertical wood cladding assembly see typ details vertical wood cladding assembly less continuous insulation waterproof membrane sstl cleat, 20 ga min. sstl fastener. flexible flashing tape 2x p/t furring/blocking w/ 15° slope self-adhering waterproof deck protector wrap 1" min butyl tape ptd brake-formed aluminum cap flashing (0.080in) w/ hemmed drip edges; provide sstl cleats and hdg lag bolt and washer; provide epdm isolation washer at dissimilar 13. sstl fabricated guardrail mount - ref bracket detail 14. sstl glass guardrail bracket, epdm setting pads, and sstl fasteners 15. 1/2" tempered glass guardrail w/ seamed and polished edges notch wood cladding around guardrail mounting brackets, typ 17. shaped p/t wood blocking

KEYED NOTES

wood paver system:

wood tiles o/ snow-melt o/

adjustable paver pedestals o/ rigid

foam insulation o/ drainage mat o/ waterproof roofing membrane o/

1/4" coverboard o/ sloped rigid

foam insulation (1/4" per 12", typ)

o/ plywood sheathing - ref struct

wood cladding assembly - ref

wood cladding assembly less

glass guardrail and bracket - ref

waterproof roofing membrane - lap

up wall sheathing to min 4" above

termination bar and flexible flashing

counterflashing and receptor w/ sstl

fasteners; provide flexible flashing

perimeter to accommodate layout

adjust dim as req'd for full wood cladding board as per ext elev.

continuous insulation

roofing high point

two-piece stainless steel

tape o/ leg of flashing modify pedestals and tiles at

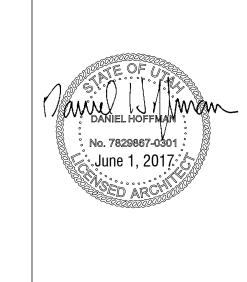
and wall geometry

10. turned-up wd cladding beyond

wood framing - ref struct

typical detail

KEYED NOTES



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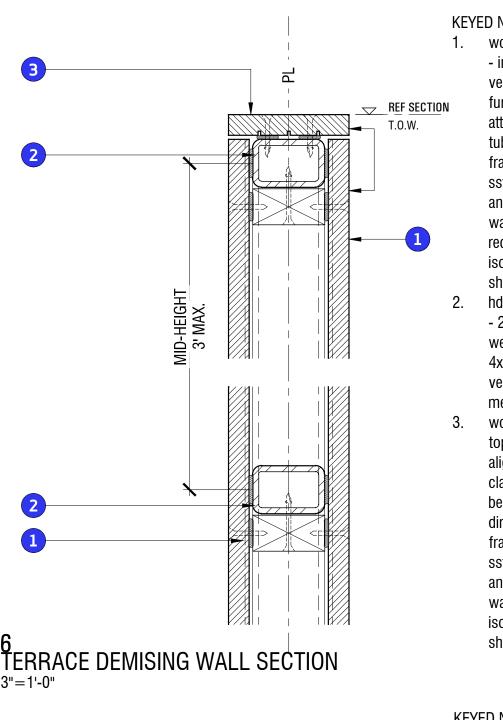
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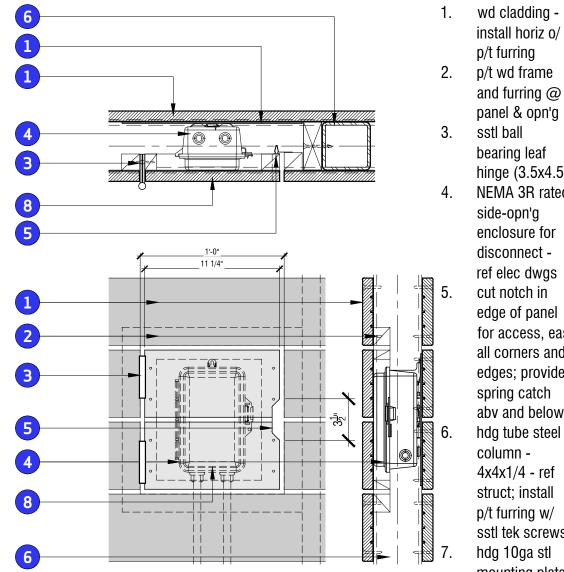
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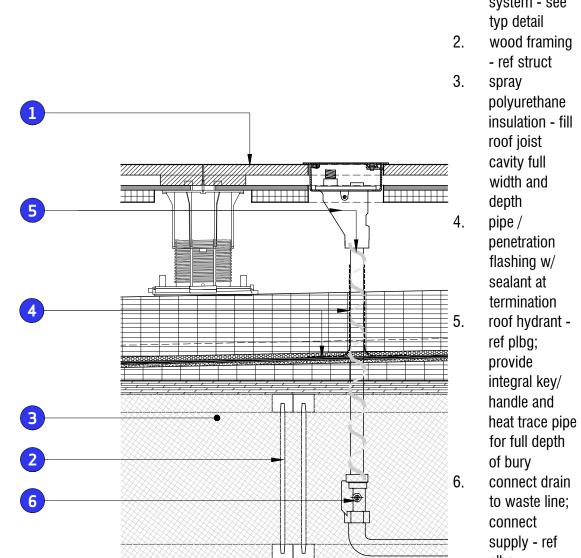
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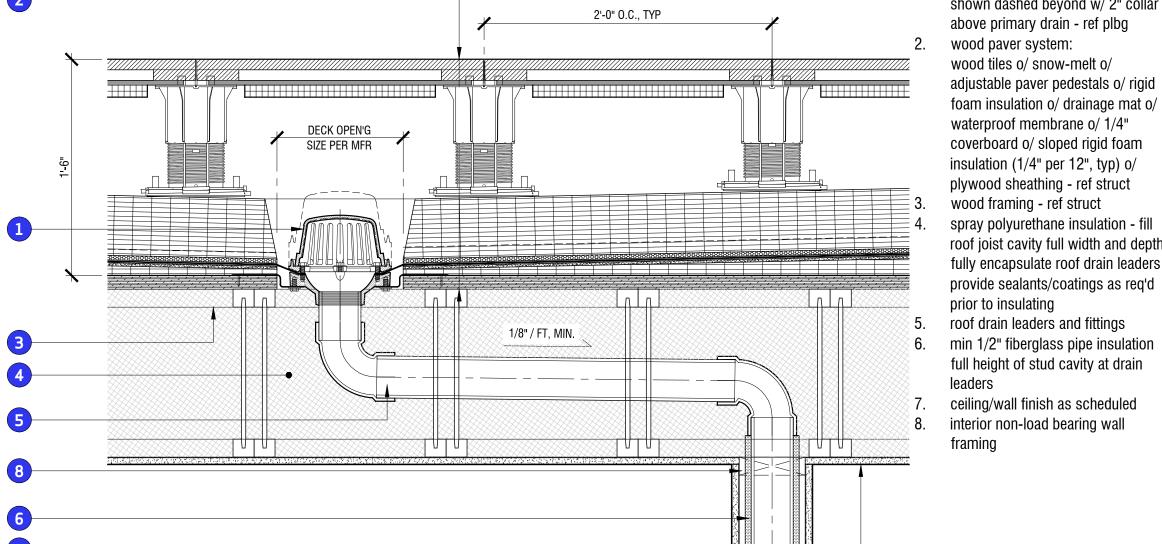
TERRACE DEMISING WALL SECTION 3"=1'-0"



TERRACE DEMISING WALL ELECTRICAL DISCONNECT 1-1/2"=1'-0"



TERRACE ROOF HYDRANT 1-1/2"=1'-0"



TERRACE SYSTEM @ ROOF DRAIN LEADERS

KEYED NOTES 1. wood paver system: 2. wood framing - ref struct 3. metal cladding assembly - ref typical detail roofing high point two-piece stainless steel tape o/ leg of flashing 7. modify pedestals and tiles at and wall geometry wood flooring planks

SHEAR WALL BASE AT TERRACE

wood tiles o/ snow-melt o/ adjustable paver pedestals o/ rigid foam insulation o/ drainage mat o/ waterproof roofing membrane o/ 1/4" coverboard o/ sloped rigid foam insulation (1/4" per 12", typ) o/ plywood sheathing - ref struct 4. waterproof roofing membrane - lap up wall sheathing to min 4" above 5. termination bar and flexible flashing counterflashing and receptor w/ sstl fasteners; provide flexible flashing perimeter to accommodate layout hardwood trim to align with step wood framing at partial height wall

MNTG HGT

WALL SCONCE @ MTL WALL CLADDING

direct set to 'plinth'

KEYED NOTES

fireplace

terrace steps

5. tile o/ thinset o/ cleavage membrane

6. pre-fabricated tile tread full width of

'plinth' w/ integral nosing - finish

face of 'plinth' flush w/ face of

sanded sealant joint - color to match

customized by manufacturer for

o/ c.b.u (1/2" at horiz; 1/4" at vert)

o/ leveling bed o/ plywood sheathing

9. floor framing - ref struct 10. hearth - ref plan for dims; ref typ tile o/ Warmboard detail

8. fireplace base w/ refractory -

clearances to combustible material.

NOTE: Fireplace installation to be done in strict conformance with manufacturer's installation requirements for clearances and sequencing; refer also to related details at stovepipe and chimney. Fireplace to be UL 737 listed and installed in per applicable Building Code requirements.

FIREPLACE PLINTH, HEARTH, AND REFRACTORY

KEYED NOTES

assembly - ref

typical detail

req'd to align

panel

connection

mtl wall panel

j-box through

from j-box

installing

flashing

scheduled

pre-formed

1. mtl wall

2. quickflash

GENERAL NOTE: WHERE WOOD CLADDING IS INDICATED, CONDITIONS ARE SIMILAR FOR OPPOSITE ORIENTATION; I.E. VERTICALLY OR HORIZONTALLY. REFER TO EXTERIOR ELEVATIONS FOR CLADDING ORIENTATION, TYPICAL U.N.O.

CHIMNEY @ ROOF PENETRATION

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

MIN. CLR

 metal roof panel system - ref typical detail Duravent 'DuraTech" type product e-4/0 sb, or eq pre-formed HT chimney flashing comp w/ sections and octagonal 4" box cap (w/ spark 3. ext grade wood arrestor) and blocking - thk as adjustable legs as req'd face of j-box w/ Duravent back of mtl wall adjustable roof flashing and liquid-tite cable storm collar 4. Duravent square through mtl wall support box w/ panel and j-box trim frame epdm shim all Duravent collar around to isolate @ connection to fireplace stovepipe sealant all around 6. attic insulation shield 7. roof framing sheathing prior to ref structural 8. offset chimney sections within roof cavity as wall sconce - as req'd to clear framing NOTE: All chimney components and installation accessories to be supplied in matte black finish, typ u.n.o. Chimney to conform to UL 103 listing maintain all req'd

KEYED NOTES

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sma project no.

sma project name POWDERCAT

16-101

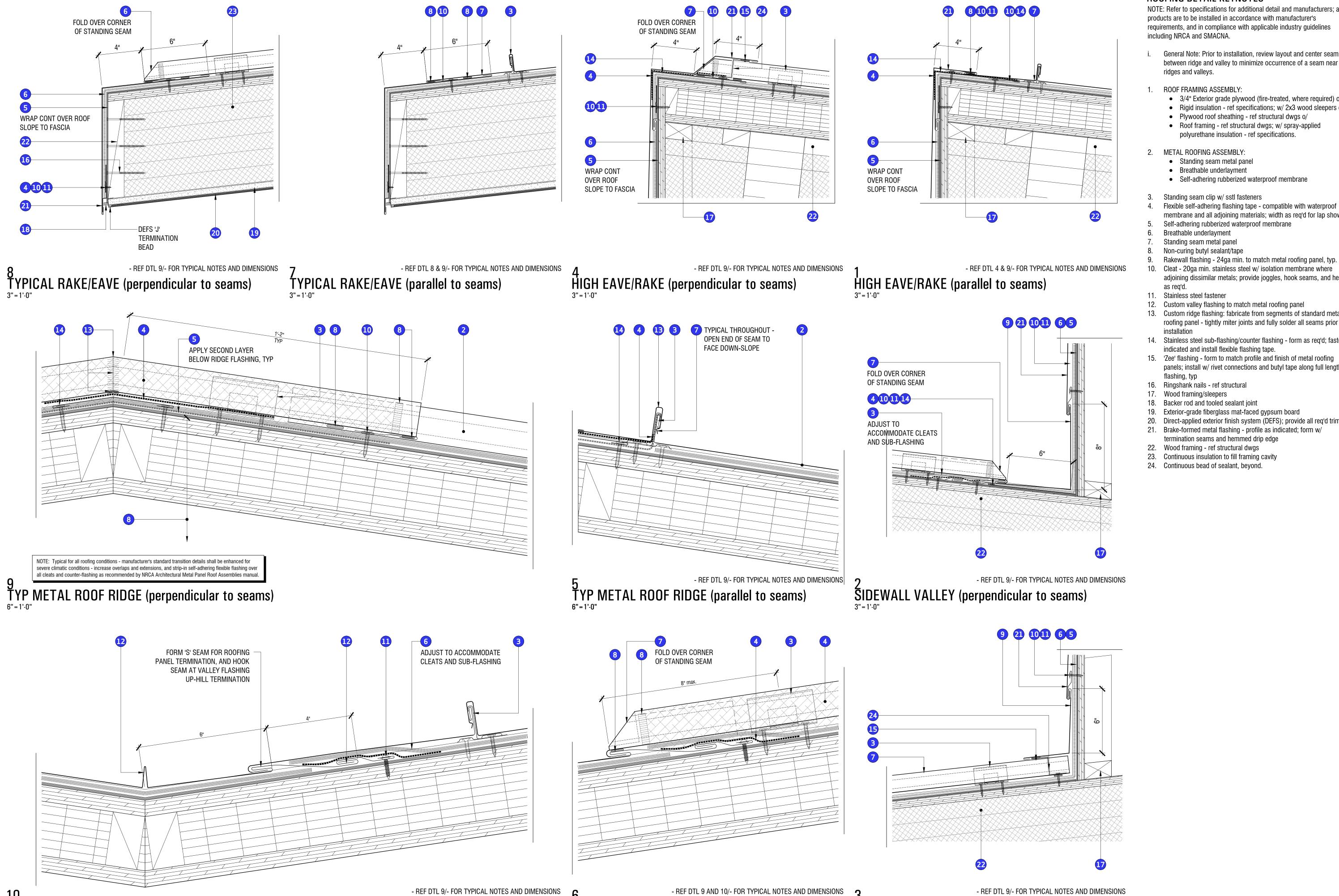
wood framing / sheathing - ref struct furred wall - ref plan for type 3. 2x framing to support finish and 4. 1-1/8" plywood sheathing - align w/ No. 7829867-0301 june 1, 2017 sheathing beyond at windows/

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TYP METAL ROOF VALLEY (perpendicular to seams) HIGH ROOF TO OVERHANG (parallel to seams)

TYP METAL ROOF VALLEY (parallel to seams)

ROOFING DETAIL KEYNOTES

NOTE: Refer to specifications for additional detail and manufacturers; all products are to be installed in accordance with manufacturer's requirements, and in compliance with applicable industry guidelines including NRCA and SMACNA.

i. General Note: Prior to installation, review layout and center seam between ridge and valley to minimize occurrence of a seam near ridges and valleys.

ROOF FRAMING ASSEMBLY:

- 3/4" Exterior grade plywood (fire-treated, where required) o/
- Rigid insulation ref specifications; w/ 2x3 wood sleepers o/
- Plywood roof sheathing ref structural dwgs o/ Roof framing - ref structural dwgs; w/ spray-applied polyurethane insulation - ref specifications.
- 2. METAL ROOFING ASSEMBLY:
- Standing seam metal panel
- Breathable underlayment Self-adhering rubberized waterproof membrane

Self-adhering rubberized waterproof membrane

- 3. Standing seam clip w/ sstl fasteners
- membrane and all adjoining materials; width as req'd for lap shown
- Breathable underlayment
- Standing seam metal panel Non-curing butyl sealant/tape
- Rakewall flashing 24ga min. to match metal roofing panel, typ. 10. Cleat - 20ga min. stainless steel w/ isolation membrane where
- adjoining dissimilar metals; provide joggles, hook seams, and hems as reg'd.
- 11. Stainless steel fastener
- 12. Custom valley flashing to match metal roofing panel
- 13. Custom ridge flashing: fabricate from segments of standard metal roofing panel - tightly miter joints and fully solder all seams prior to
- 14. Stainless steel sub-flashing/counter flashing form as req'd; fasten as indicated and install flexible flashing tape.
- 15. 'Zee' flashing form to match profile and finish of metal roofing panels; install w/ rivet connections and butyl tape along full length of flashing, typ
- 16. Ringshank nails ref structural
- 17. Wood framing/sleepers
- 18. Backer rod and tooled sealant joint
- 19. Exterior-grade fiberglass mat-faced gypsum board
- 20. Direct-applied exterior finish system (DEFS); provide all req'd trim 21. Brake-formed metal flashing - profile as indicated; form w/
- termination seams and hemmed drip edge 22. Wood framing - ref structural dwgs
- 23. Continuous insulation to fill framing cavity
- 24. Continuous bead of sealant, beyond.

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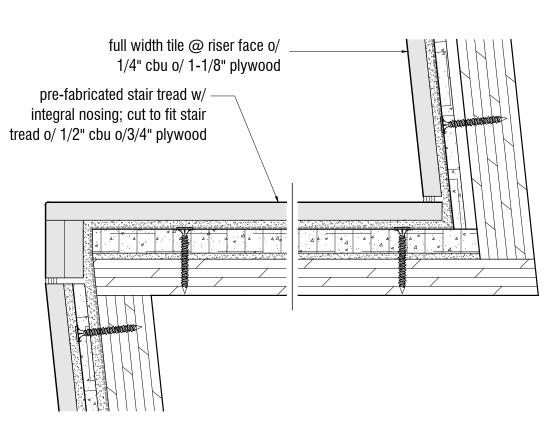
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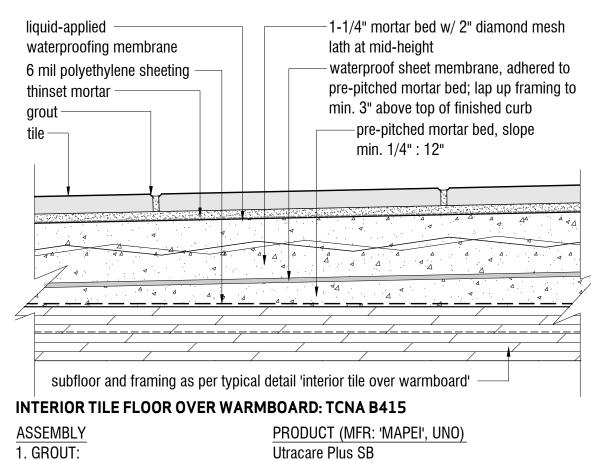
TILE OVER WOOD STAIR: TCNA ASSEMBLY F144

ASSEMBLY PRODUCT (MFR: 'MAPEI', UNO) 1. GROUT: Ultracolor Plus FA 2. TILE SETTING: Granirapid System, or Kerabond T w/ Keralastic 3. CLEAVAGE MEMBRANE: Mapelastic

4. BACKER BOARD: USG 'Durock' 1/4" and 1/2" (as noted) 5. BOND COAT: 4 to 1 Mortar Bed Mix

> Note: provide elastomeric grout joints (soft joints) as per TCNA EJ-171 at not less than 25' o.c., ea. direction and at all changes in floor framing direction and support conditions (i.e. stair landings, etc.); elastomeric sealant to be sanded and provided in color to match grout

TILE @ WOOD STAIRS 6"=1'-0"



2. TILE SETTING: Granirapid System, or Kerabond T w/ Keralastic 3. MEMBRANE: Mapelastic Aqua-defense 4. MORTAR BED: 4 to 1 Mortar Bed Mix

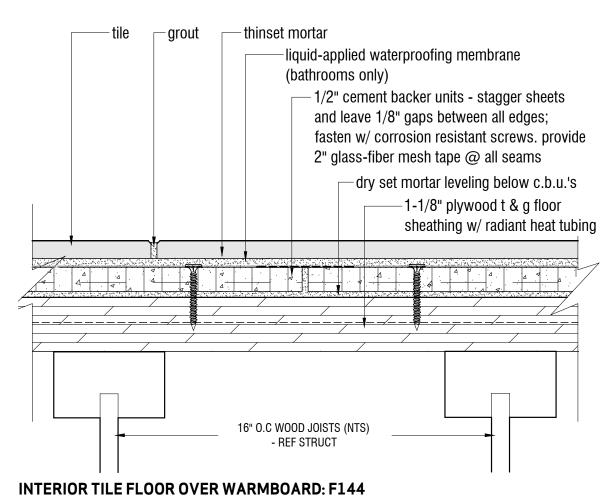
'Noble Company' NobleSeal CIS w/ NobleSealant 150 to seam sheets, seal penetrations, drains, and terminal edges (seal preformed corners to sheet) 'Noble Company' *NobleBond EXT* (wet areas)

6. SEALANT/ADHESIVE: 7. PRE-PITCHED MORTAR BED: Modified Mortar Bed Mix

INTERIOR TILE AT SHOWER FLOOR 6"=1'-0"

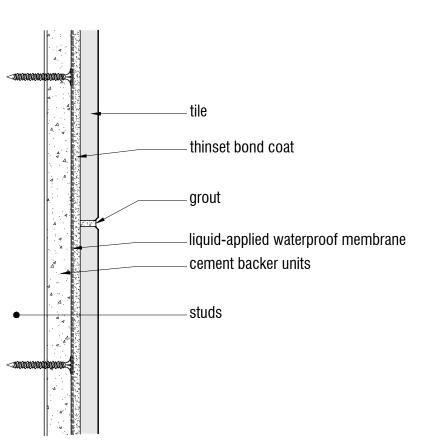
5. WATERPROOF MEMBRANE:

6"=1'-0"



ASSEMBLY PRODUCT (MRF: 'MAPEI', UNO) 1. GROUT: Ultracolor Plus FA 2. TILE SETTING/LEVELING: Granirapid System, or Kerabond T w/ Keralastic 3. MEMBRANE (WHERE OCCURS): Mapelastic Aqua-defense (at bathrooms only) 4. CEMENT BACKER UNIT: 'USG' Durock cement board 1/2"

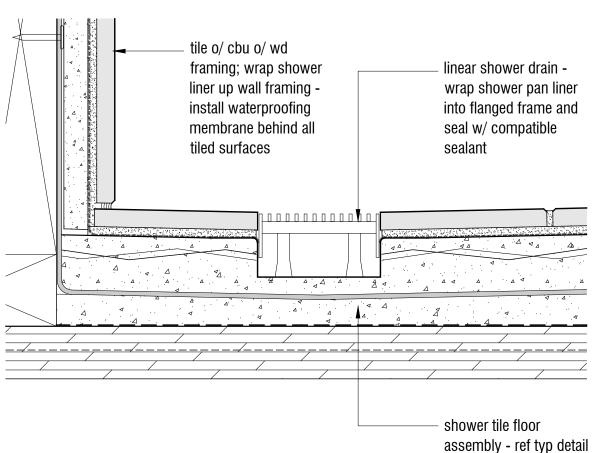
Note: provide elastomeric grout joints (soft joints) as per TCNA EJ-171 at not less than 25' o.c. ea. direction and at all changes in floor framing direction and support conditions (i.e. stair landings, etc.); elastomeric sealant to be sanded and provided in color to match grout. INTERIOR TILE FLOORING o/ WARMBOARD (THINSET)



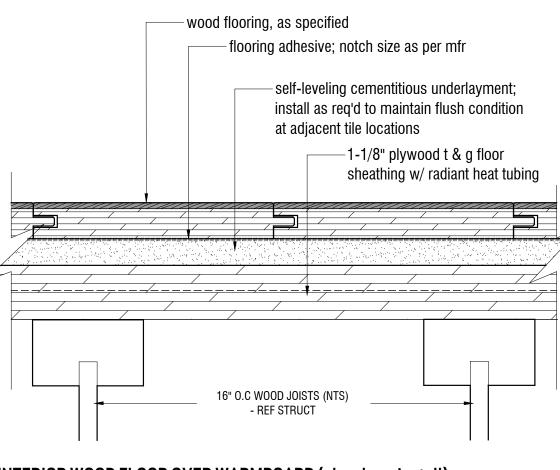
INTERIOR WALLS OVER WOOD OR METAL STUDS / MAPEI DETAIL MW244C,

TCNA #W244C **ASSEMBLY** PRODUCT (MFR: 'MAPEI', UNO) 1. GROUT: OPTICOLOR STAIN-FREE GROUT 2. BOND COAT KERABOND/KERALASTIC SYSTEM 3. MEMBRANE (WHERE OCCURS): MAPELASTIC AQUA-DEFENSE 4. CEMENT BACKER UNIT 'USG' DUROCK 1/2" CEMENT BOARD

INTERIOR TILE OVER FRAMING 6"=1'-0"



LINEAR DRAIN - TYPICAL ASSEMBLY

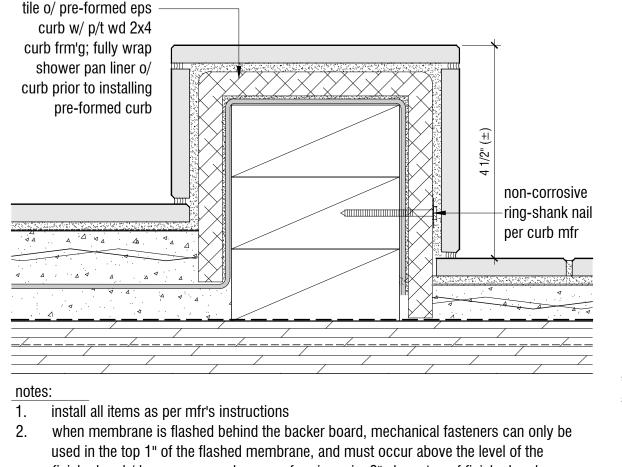


INTERIOR WOOD FLOOR OVER WARMBOARD (glue down install)

ASSEMBLY PRODUCT 1. ADHESIVE: Mapei Ultrabond Eco 975 and 980 2. SELF-LEVELING COMPOUND Ardex K 15

6'' = 1' - 0''

Note: install in accordance with Warmboard product installation requirements, and in accordance with National Wood Flooring Association Installation Guidelines, current edition. ÍNTERIOR WOOD FLOORING OVER WARMBOARD



finished curb/dam; wrap membrane up framing min. 3" above top of finished curb

3. membrane should be bonded to or flashed over the dam and fastened on the outside of the dam. there should be no penetrations on the inside or top of the dam

4. provide preformed inside and outside corners at curb/dam substrate must comply with industry guidelines

6'' = 1' - 0''

6. shower receptors, curbs, soap niches, seats, etc. must be properly waterproofed and installed to avoid water damage to adjacent building materials. install as per TCNA

guidelines - ref. TCNA B415 & 'Common Shower Configurations' TILE CURB AT SHOWER

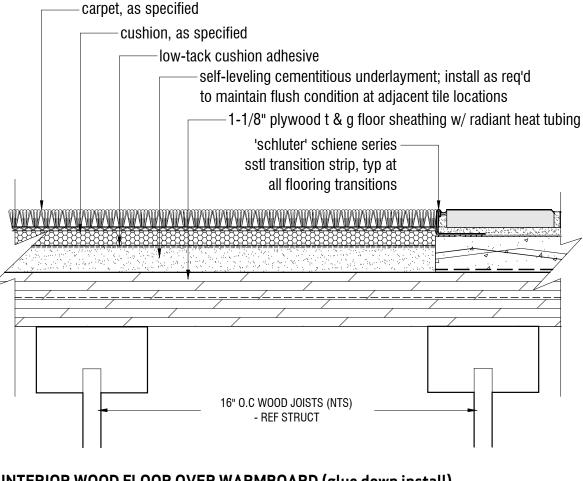
linear shower -positive weep drain - ref typ protection collar at linear drain detail clamp down assembly -sealant at all membrane terminations, typ adjustable clamp-down assembly - ref plbg shower tile floor -

assembly - ref typ detail

LINEAR DRAIN AT CLAMP DOWN ASSEMBLY 6"=1'-0"

shower drain waste -

pipe - ref plbg

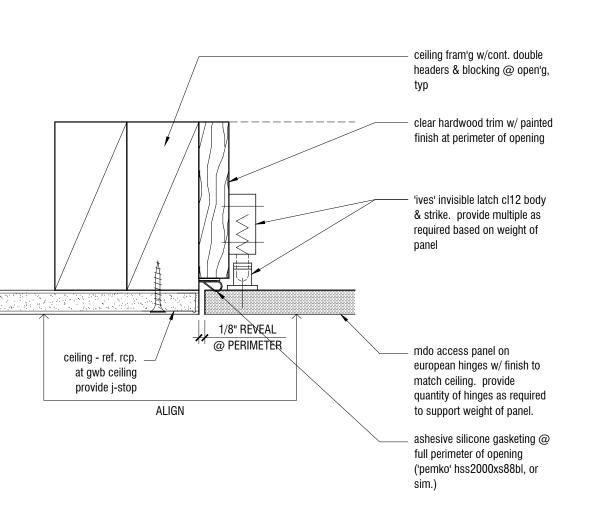


INTERIOR WOOD FLOOR OVER WARMBOARD (glue down install)

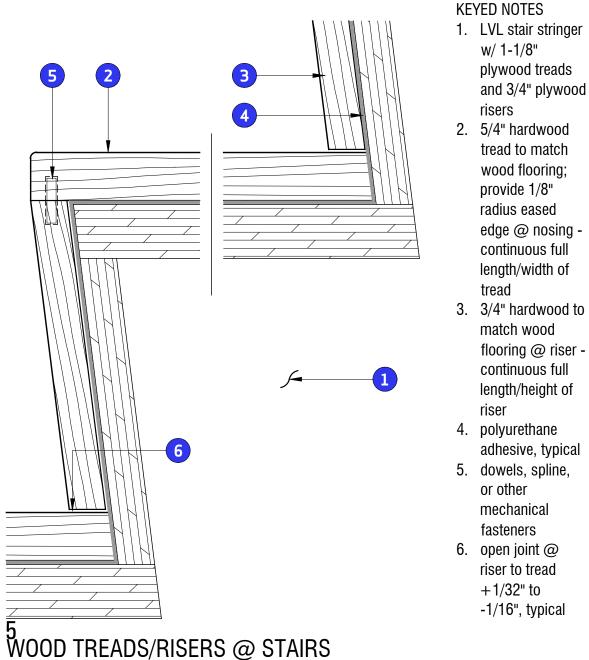
ASSEMBLY PRODUCT 1. ADHESIVE: Mapei Ultrabond Eco 20 or 85 2. SELF-LEVELING COMPOUND Ardex K 15

Note: install in accordance with Warmboard product installation requirements, and in accordance with Carpet and Rug Institute Installation Guidelines, current edition. INTERIOR CARPET FLOORING OVER WARMBOARD 6"=1'-0"

TYPICAL WARMBOARD OVER SLAB ON GRADE SECTION



ACCESS PANEL 6"=1'-0"



WOOD WALL CAP

KEYED NOTES

scheduled

- if req'd

1-1/8" t & g

plywood

integral

6 mil

grooves for

poly tubing

polyethylene

grade - ref

mil vapor

rigid foam

insulation o/

compacted

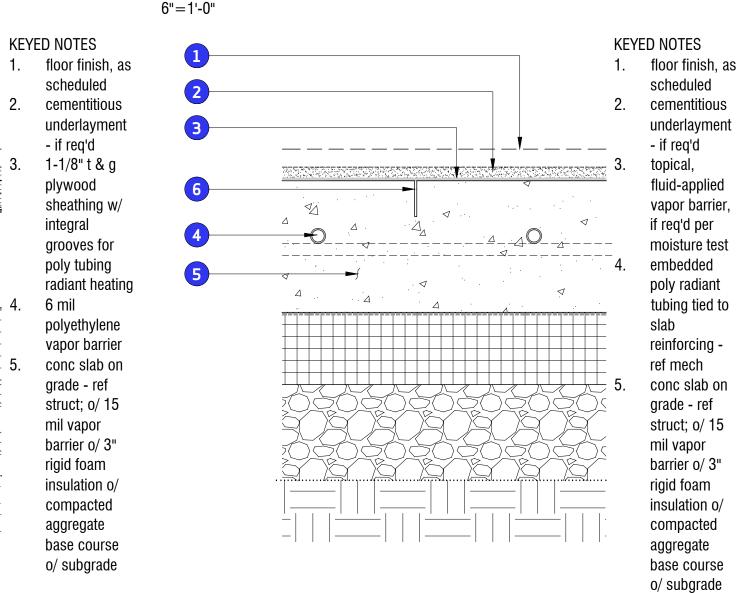
aggregate

base course

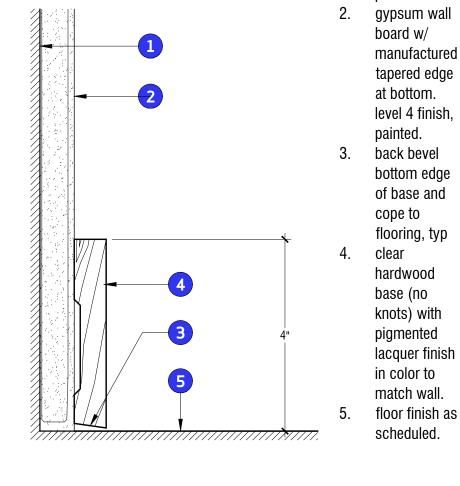
o/ subgrade

barrier o/ 3"

struct; o/ 15



FLOOR FINISH OVER RADIANT SLAB ON GRADE



WALL BASE @ GYPSUM WALL BOARD

painted. back bevel bottom edge of base and cope to flooring, typ hardwood base (no knots) with pigmented lacquer finish in color to match wall. floor finish as scheduled.

1/2 in actual dim

transparent finish.

shims as required

- 1/4" black neoprene

wall finish - ref plan

foam tape

clear hdwd w/

ease edges.

KEYED NOTES

wall - ref

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slab control joint - ref

struct

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-----_____ ceiling finish @ full hgt doors, typ ceiling finish @ full hgt doors, typ aluminum trim - Fry Reglet backer rod and 1/4" wide sealant 1 1/4" JAMB DRMPET-375 - pnt to match clg joint; color & texture to match wall THICKNESS – hardwood frame, species to hardwood frame, finished where match door w/ clr finish exposed, pnt to match door JAMB WIDTH (VARIES) : REF PLAN - wood veneer door (or fixed door (or fixed transom) transom) - ref plan & door sched. - ref plan & door sched. cont. j-trim & sealant @ gwb conditions; sealant - interlocking lap joint @ transom, - interlocking lap joint @ transom, @ tile conditions w.o. - ref plan & door sched. w.o. - ref plan & door sched. - wood veneer door - ref plan & door sched. note: refer to interior door jamb detail for note: refer to interior door jamb detail for typical items not dimensioned or noted typical items not dimensioned or noted INTERIOR WOOD DOOR - FLUSH HEAD CONDITION INTERIOR DOOR HEAD POCKET DOOR / HEAD 6"=1'-0" 6"=1'-0" 3"=1'-0" door - ref plan JAMB WIDTH (VARIES) REF PLAN door - ref plan & door schedule 1 1/4" JAMB fully-mortised hinge (ref THICKNESS plan for swing direction JAMB WIDTH (REF SCHEDULE) and handing) cont. j-trim & sealant @ gwb hardwood frame, finished where conditions; sealant exposed, or pnt. to match door - ref 1 1/2" JAMB @ tile conditions -THICKNESS — 1" JAMB door sched THICKNESS -1/4" sealant shims, as required black sealant, both sides - shims as required - jamb framing - jamb framing - line of face of finish - ref line of face of finish - ref plan & plan & schedule for overall schedule for overall wall thickness

wall thickness and finishes

header where req'd, per struct.

and finishes

3"=1'-0"

INTERIOR DOOR / JAMB @ GWB (HEAD SIM.)

14 11

10

13

POCKET DOOR / JAMB

___ JAMB WIDTH ___ (REF SCHEDULE)

No. 7829867-0301

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wall finish as

wall framing w/

header per plan

cont. 2x below

sliding door track &

- solid hardwood

casing (clear grade)

w/ painted finish typ. @ head and

pocket door - ref

wall finish as

solid hardwood

casing (clear grade)

w/ painted finish -

typ. @ head and

– pocket door, ref plan

jambs

scheduled

jambs

plan

header

hardware

scheduled

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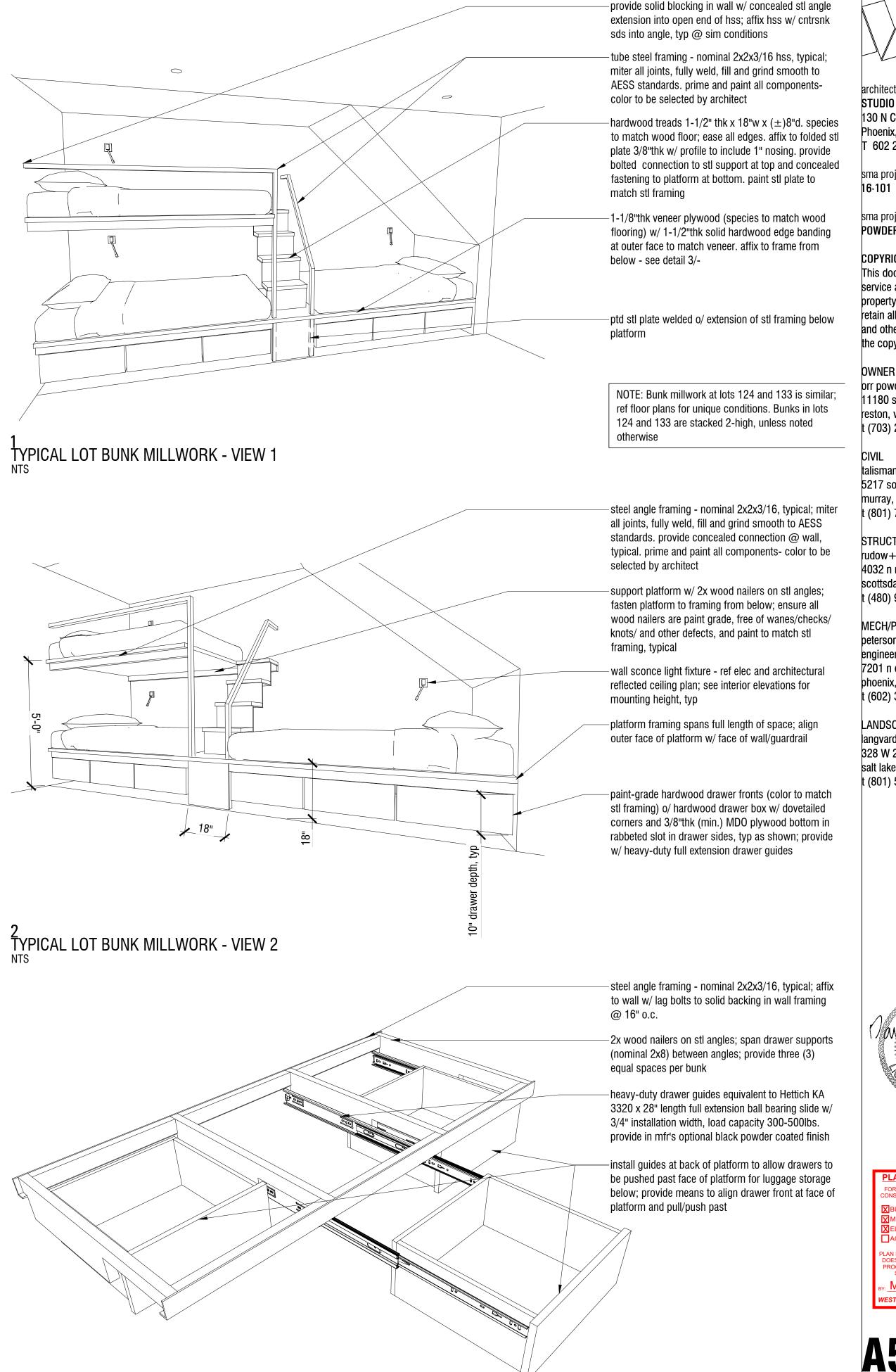
2017.06.01 date

12

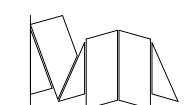
INTERIOR WOOD DOOR - FLUSH JAMB

15





BUNK MILLWORK - PLATFORM BASE FRAMING @ STORAGE



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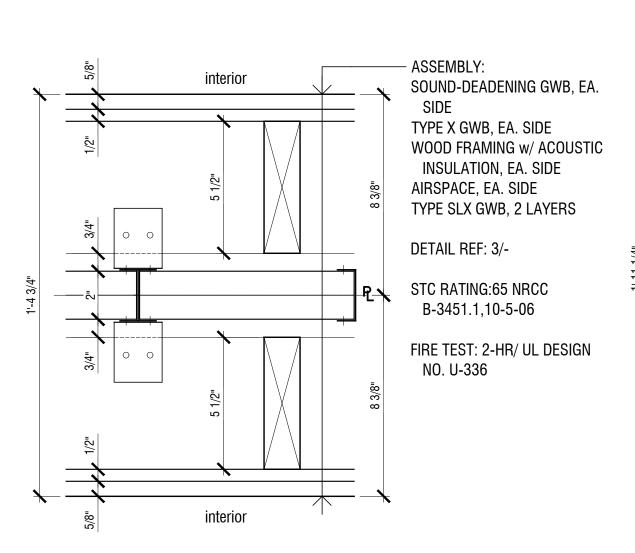
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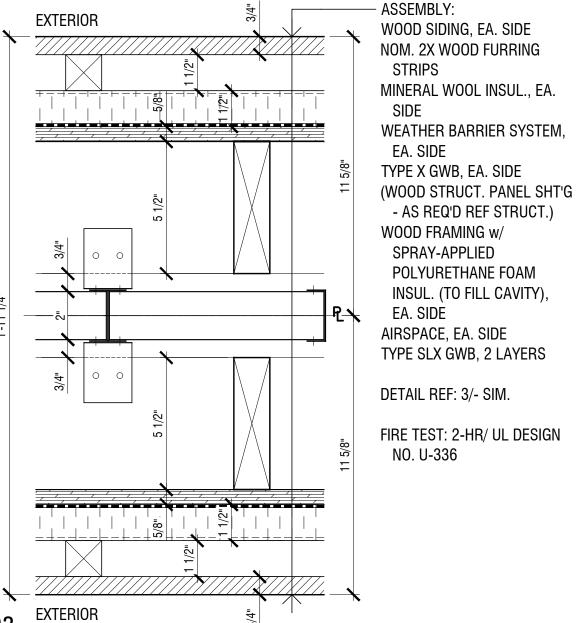
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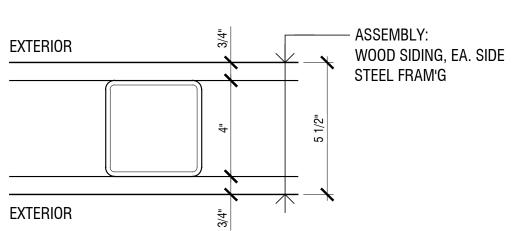
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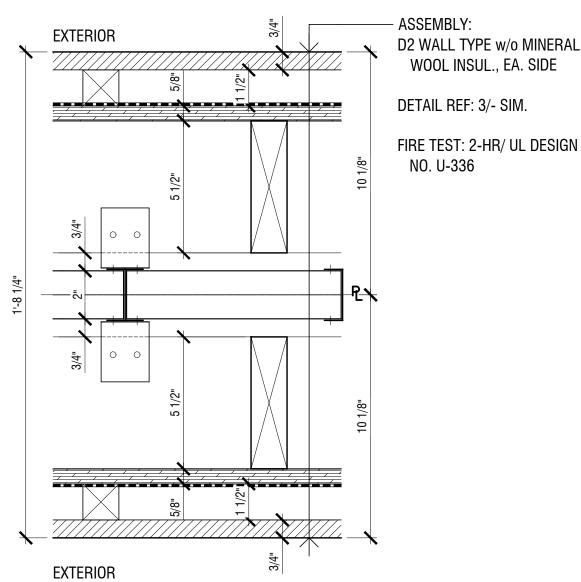
_ WOOD FRAMED DEMISING WALL / INTERIOR



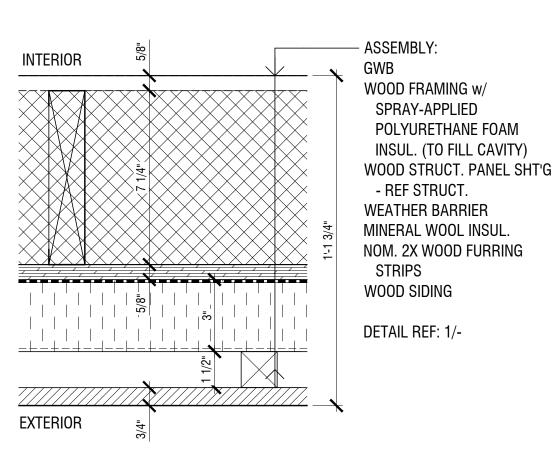
TYP WOOD FRAMED DEMISING WALL / EXT, INSULATED



TYPICAL TERRACE SCREEN WALL

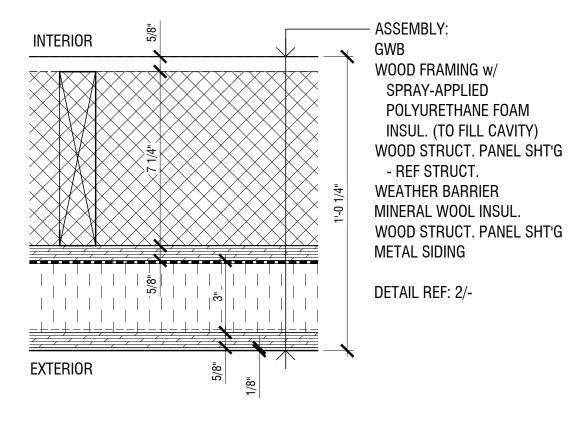


D4 TYP WOOD FRAMED DEMISING WALL / EXT, UNINSULATED

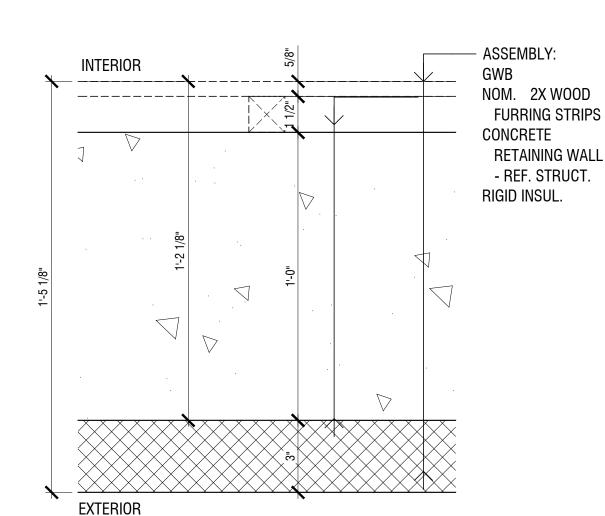


TYPICAL EXTERIOR WALL w/ WOOD SIDING

EXTERIOR

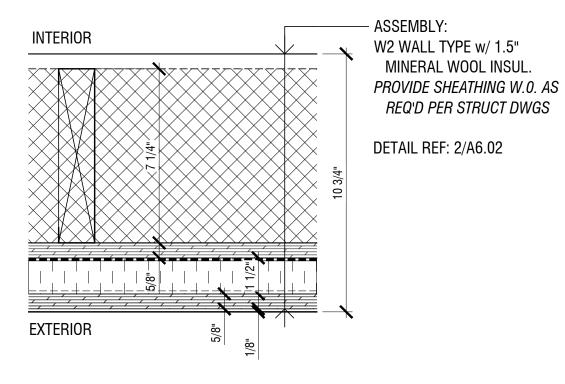


TYPICAL EXTERIOR WALL w/ METAL SIDING



EXTERIOR

ASSEMBLY: WOOD SIDING, EA. SIDE NOM. 2X WOOD FURRING STRIPS, EA. SIDE MINERAL WOOL INSUL., EA. WEATHER BARRIER, EA. SIDE TYPE X GWB, EA. SIDE (WOOD STRUCT. PANEL SHT'G - AS REQ'D REF STRUCT.) WOOD FRAMING w/ SPRAY-APPLIED POLYURETHANE FOAM INSUL. (TO FILL CAVITY) DETAIL REF: 1/- SIM.



W3 CONCRETE RETAINING WALL w/ FURRED GWB

EXTERIOR WALL @ SNOW ENTRY

EXTERIOR WALL @ WINDOW

COMMENTS

- A. Refer to code analysis for wall fire rating and separation requirements.
- B. Refer to code analysis for wall thermal envelope requirements.

GENERAL NOTES

- 1. UL / IBC design note: Refer to framing details, project specifications, and code analysis for detailed UL firestopping and fire resistant assembly design details
- 2. All walls w/tile shall have 20 ga studs min. u.n.o.
- 3. All gwb at walls w/tile or at walls w/plbg fixtures shall be glass fiber mat faced gwb and shall maintain required fire rating, where applicable.
- 4. Provide sound attenuation batts (bearing UL rating at rated walls) at all rated walls, walls separating units from each other or from public/service areas, and at all bathroom walls - typ, uno.
- Refer to **General Notes for Acoustically Rated Walls** for detailed information including requirements for installation of resilient channels, caulking, electrical outlets, and penetrations.
- 5. Contractor shall coordinate wall layout to ensure face of substrate alignment where different wall types are shown as co-planar.
- 6. Provide backing at all wall mounted fixtures, accessibility elements, millwork, equipment, and accessories for current and future (ie - adaptable) installations, where required by accessibility codes such backing must provide the structural strength as required by ADAAG.

FRAMING NOTES

- 1. Refer to floor plans for wall tags, typ. Where no wall type is indicated it shall be similar to the adjacent wall type.
- 2. Refer to framing details for typical framing requirements and dimensions. All framing shall conform to framing details unless otherwise noted.
- 3. Refer to structural drawings for load bearing stud framing requirements. intersections between load bearing framing and non-structural framed partitions shall be flush and shall remain true, plumb, and level. required ratings to be maintained.
- 4. All recessed wall mounted equipment shall be framed with double studs at jambs per framing details, typical, u.n.o.
- 5. Contractor shall notify Architect prior to installing wall finish to review backing locations, typical throughout.
- 6. All duct openings shall be framed per sill framing requirements refer to typical partition elevation and interior framing schedule.

WALL TYPE LEGEND

/122	
	rated partition
	full-height partition
	demising wall
	furred wall
	shear wall
1	exterior wall

ABBREVIATIONS

WO, W.O.

1s	one side
2s	two sides
CBU	cementitious backer units
CL	centerline
CLG	ceiling
DIA	diameter
(E), (e)	existing
EXT	exterior
FT, F-T	fire-treated
GA	gauge
GWB, GYP BD	gypsum wall board
NC, N-C	non-combustible
NR	non-rated
OC, O.C.	on center
0/, 0/	over
PTD	painted
REF	refer, reference
SAFB	sound attenuation fire blanket
SHT'G	sheathing
TYP	typical
UNO, U.N.O.	unless noted otherwise

where occurs

GENERAL NOTES FOR ACOUSTICALLY RATED WALLS

ELECTRICAL OUTLET/RECEPTACLE IN

DRYWALL In a single stud wall, there shall be a separation of 24" between centerlines of outlet boxes or receptacles set into opposite sides of the wall. When these boxes are of dimensions exceeding 4" wide, this dimension (24") shall be clear between the side walls, providing a full 24" separation regardless of the box size. Conduit connecting such boxes shall be flexible and shall provide 6" slack per 24" of run.

In a double stud wall, boxes in opposite sides of the wall shall be located 24" on center, minimum. Effectively, this means that boxes on the same side of the wall will be 48" apart if there is a box between them on the other side of the wall. Conduit, in the case of a double wall, shall home run to a point outside of the partition before connecting to cable and conduit connecting boxes on the other side. Conduit, which shall be flexible, may thread through the studs on its own side but shall under no circumstances interface with the stud on the other side of the wall.

The boxes shall be treated to reduce sound transmission. All unused knock-out holes shall be plugged with knock-out caps. The openings or cutouts in the walls to receive the boxes/receptacles shall be made no more than 1/4" oversize to allow a 1/8" gap all around. The flanges shall be perimeter sealed with acoustical caulking, prior to the boxes/receptacles being inserted.

An outlet box pad, which acts to increase mass and provide damping, shall be applied to the backs of boxes or where the box is installed in a partition rated with an STC>49. Where the box is installed in a partition rated at STC>56, the boxes/receptacles shall be boxed in from the rear on all five sides with two layers of gypsum board.

PENETRATIONS OF DRYWALL CONSTRUCTIONS:

The Contractor shall ensure that the sound control performance of structures be maintained in accordance with the drawings and specifications. All penetrations shall be installed in a manner that results in complete air tightness through structure. If a condition occurs where penetration of the structure by a duct, pipe, conduit, etc., is not shown clearly on the drawings (or described in the specifications), the Contractor shall ask immediately for clarification of the method necessary to install the particular item.

The following shall apply to all penetrations in walls requiring a sound transmission class (STC) 49 or greater. For penetrations of ducts, pipes, conduit, etc., with minimum dimension or diameter exceeding 3", the gypsum board layers shall be framed around the penetration allowing for a 1" annular gap. The length of the duct or pipe or conduit that penetrates the construction shall be wrapped with 1" thick, 3 lb/ft3 density glass or mineral fiber. This shall be held in place at either end by a 1-1/4" diameter or 1-1/4" square polyethylene or neoprene closed cell sponge backing rod. A total of 4 beads of acoustical caulking (2 at each end) shall be applied continuously around the penetration as shown in the drawings.

When more than one duct (etc.) passes through the construction, or when the duct (etc.) penetration is close to another wall, ceiling or floor construction, a minimum distance of 5" shall separate the duct wall from the adjacent duct wall or 4" between the duct wall and the adjacent wall/floor/ceiling. This shall be to allow the insertion of two back-to-back framing runners to ensure the strength and the acoustical packing of the gypsum board construction separating the two items.

For penetrations of pipes, conduit, etc., with maximum dimension or diameter less than 3", the hole in the wall need not be framed out. Pipes/conduits sized in the range 1" to 3" diameter shall be packed with glass or mineral fiber, held in place with backing rod and caulked as indicated above for larger size penetrations.

Pipes/conduits with diameters up to 1" may be fitted with 1-1/2" wide x 3/4" thick (compressed to 1/2") closed cell, sponge

neoprene collars as they penetrate each side of the wall (refer to fireproofing details sheet a0.15 for rated conditions).

The following pipe penetration systems are acceptable, subject to the above:

Split Acoustical Wall Seals SWS, and Spool-Type Acoustical Pipe Seals SPS, from Mason Industries, Inc., Hauppage, NY, and Anaheim, CA, or approved equal.

ELECTRICAL OUTLET BOX PAD:

Electrical Outlet Box Pads shall be applied where called out on the drawings or specifications. Its function is to seal box openings, increase mass and provide damping to reduce air-transmitted sound through party walls. It shall consist of polybutene-butyl and inert fillers. Material shall provide good adhesion to metal and plastic. Pads shall be applied to the backs of installed electrical boxes, molded to box and folded around conduit cable entering the box. Pads shall not be used in areas subject to temperatures above 200° F.

The following are acceptable, subject to the

Lowry's Outlet Box Pads from Harry A. Lowry & Associates, Inc., Sun Valley, CA, 800-225-8231.

SpecSeal Firestop Putty Pads (fire-rated) from Specified Technologies, Inc., Somerville, NJ, 800-992-1180, or approved equal.

ACOUSTICAL CAULKING:

Acoustical caulking shall be applied in continuous beads. The material shall be resilient and non-setting.

The following are acceptable: Acoustical Sealant, U.S. Gypsum,

Chicago, IL Acoustical Sealant, The Tremco Manufacturing Company, Cleveland, OH AS-10 Acoustical Sealant, Macco Adhesives, Wickliffe, OH BA-97, BA-98 Acoustical Sealant, Pecora Chemical Corp., Harleysville, PA #313 Sound Control Sealant, The W.W. Henry Company, Huntington Park, CA, or approved equal.

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sma project no. 16-101

sma project name POWDERCAT

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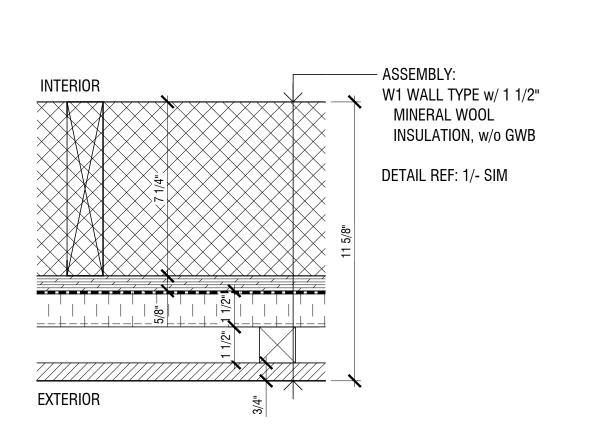
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ASSEMBLY:

NOM. 4X WOOD FURRING

WOOD STRUCT. PANEL SHT'G

STRIPS W/ ACOUSTIC INSUL.(TO FILL CAVITY)

- REF STRUCT.

WOOD FRAMING w/

SPRAY-APPLIED

- REF STRUCT.

STRIPS

WOOD SIDING

DETAIL REF: 1/-

WEATHER BARRIER

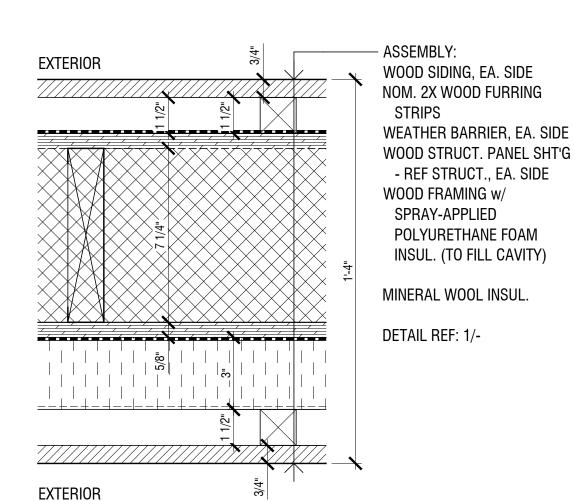
MINERAL WOOL INSUL.

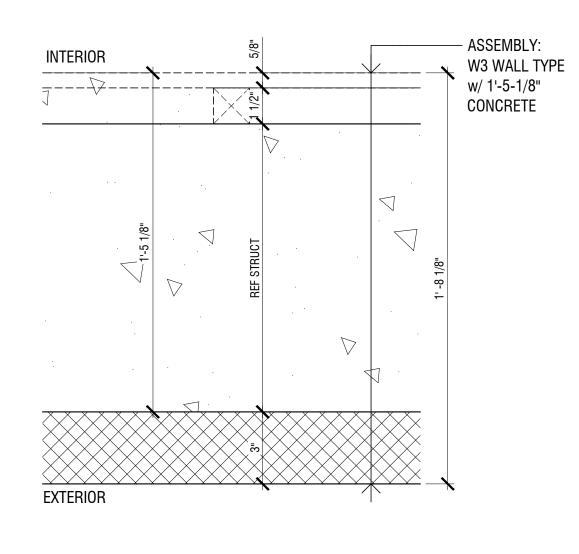
NOM. 2X WOOD FURRING

POLYURETHANE FOAM

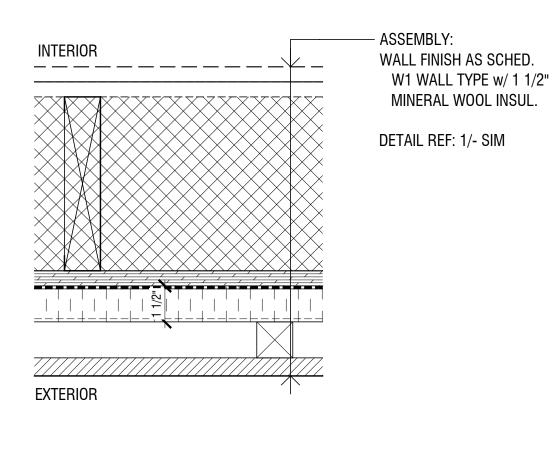
INSUL. (TO FILL CAVITY)

WOOD STRUCT. PANEL SHT'G

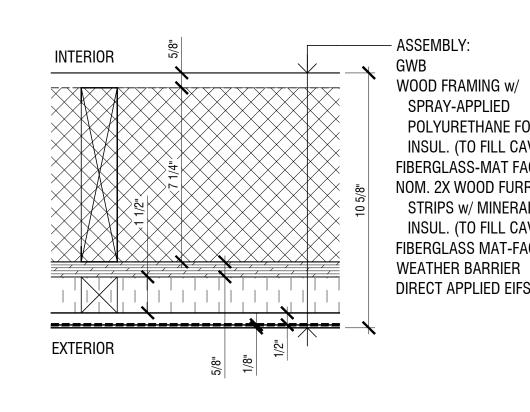


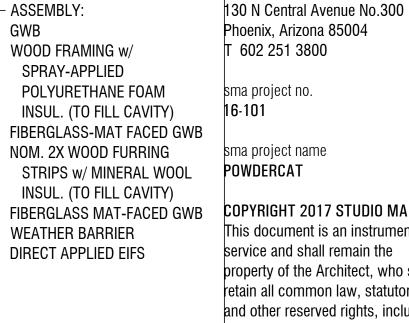


18" CONCRETE RETAINING WALL w/ FURRED GWB

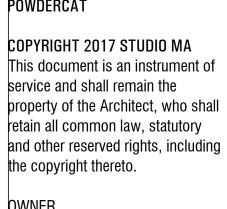


EXTERIOR WALL w/ 3" RIGID INSULATION





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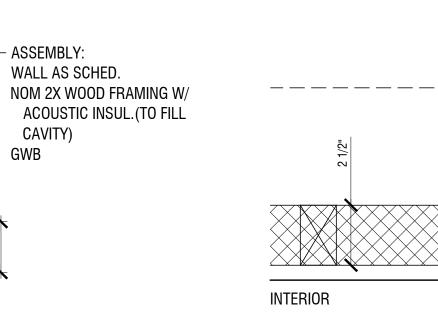


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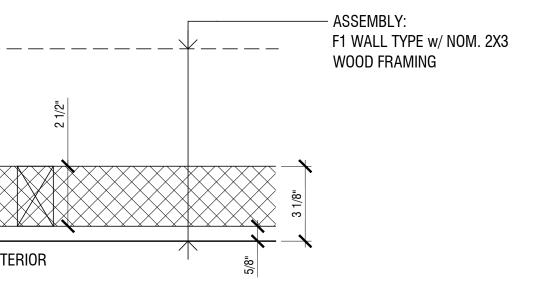
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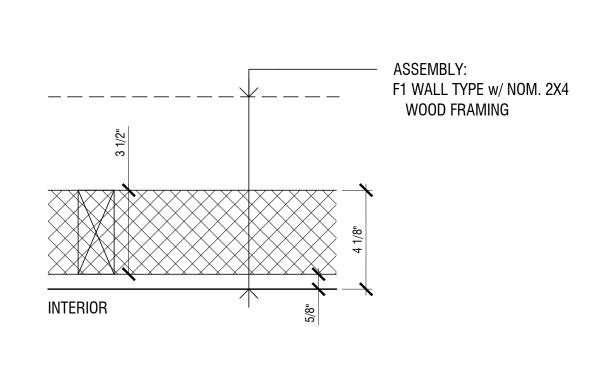
W10 EXTERIOR WALL WITH DIRECT-APPLIED EIFS

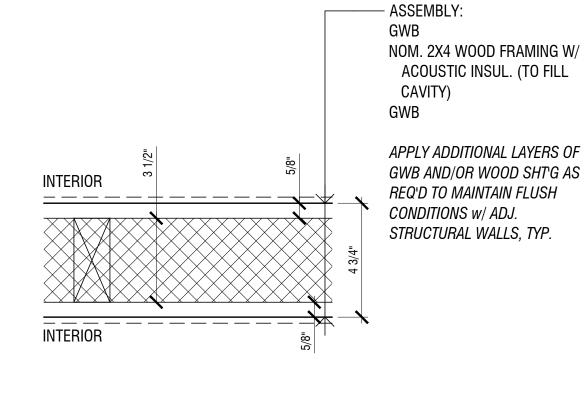


ASSEMBLY:

CAVITY)









W6 EXTERIOR WALL @ KITCHEN (LOW)

INTERIOR

EXTERIOR



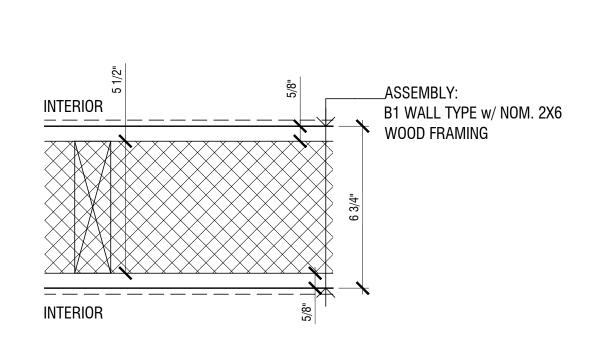
INTERIOR

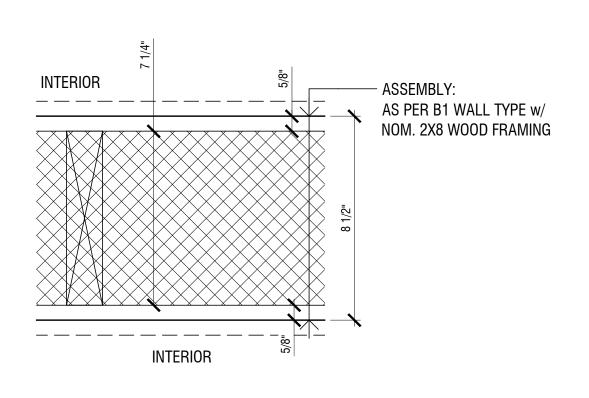
TERRACE GUARDRAIL WALL

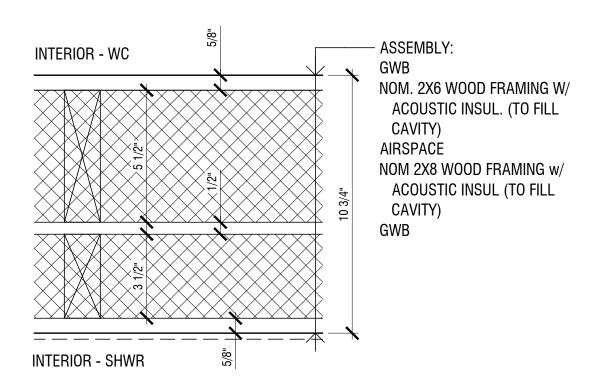
F2 INTERIOR FURRED WALL

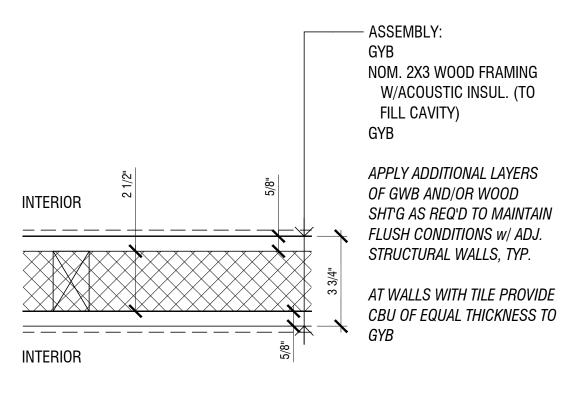


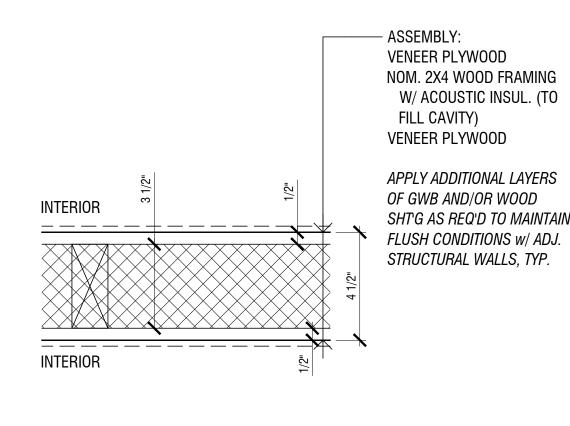














No. 7829867-0301



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2017.06.01 date

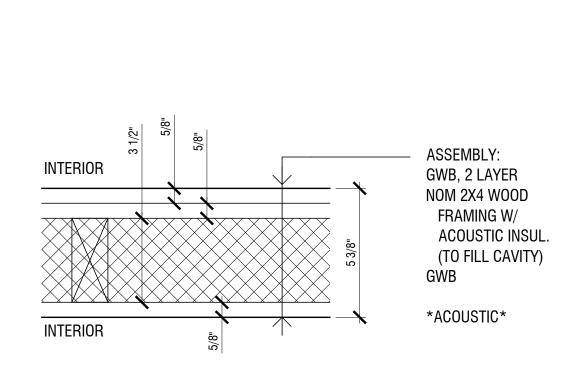
B2 TYPICAL INTERIOR WALL 3"=1'-0"

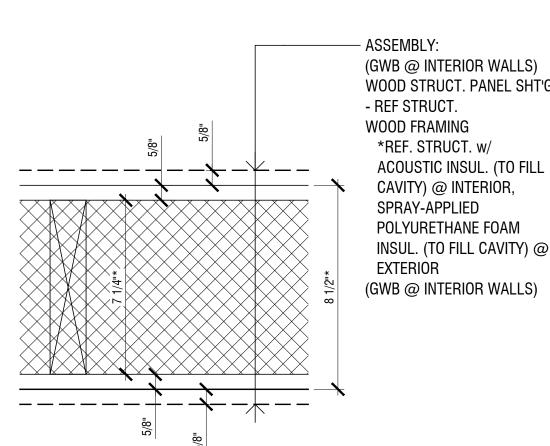
B3 INTERIOR WALL

B4 INTERIOR WALL (@ RESTROOM)

B5 TYPICAL INTERIOR WALL

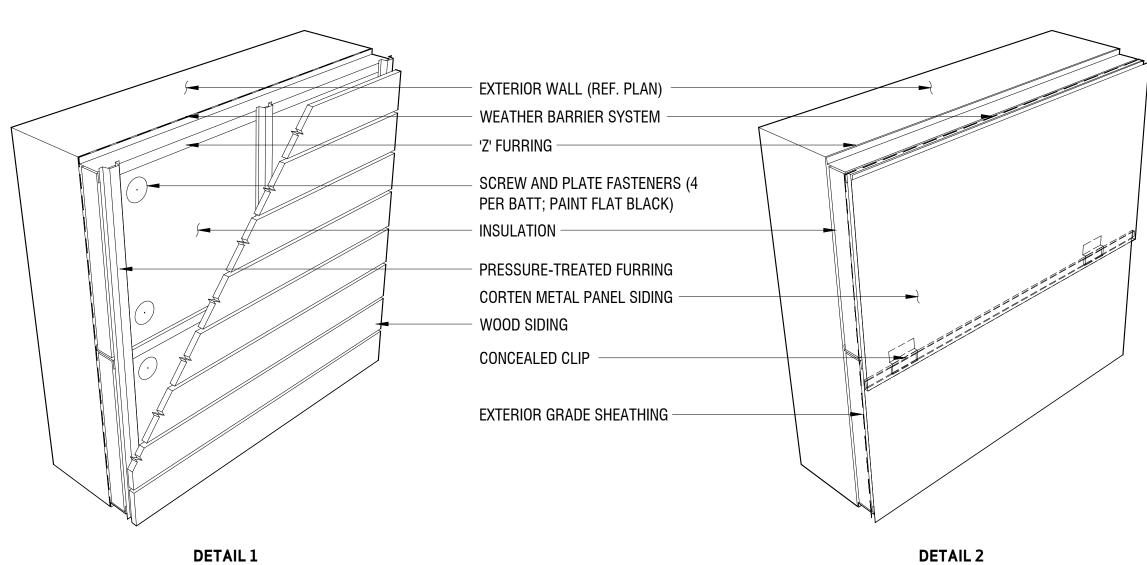
B6 TYPICAL INTERIOR WALL 3"=1'-0"







\$1 SHEAR WALL 3"=1'-0"



NOTE: HORIZONTAL SIDING SHOWN; VERTICAL SIDING IS SIMILAR.

WOOD STRUCT. PANEL SHT'G INSUL. (TO FILL CAVITY) @

DETAIL 3

NOTE: ATTACH GYPSUM WALLBOARD TO METAL FRAMING USING 1-1/4" LONG BUGLE HEAD TYPE 'S' DRYWALL SCREWS @ 12" O.C. FASTENERS SHALL BE IN COMPLIANCE WITH ASTM C 1002.

POWDER-ACTUATED FASTENERS @ 24" OC - SET INTO BED OF TYPE AS ACOUSTICAL

 $^-$ CONT. CHANNEL / C-RUNNER (H-STUD TRACK) W/'HILTI' X-U 37 P8 X 1- $^1\!\!/_2$ "L

-METAL ROOFING O/ UNDERLAYMENT O/ WOOD SHEATHING O/ RIGID PLASTIC FOAM

ROOF TRUSSES W/CLOSED-CELL SPRAY POLYURETHANE FOAM INSULATION TO

 $^-$ DOUBLE H-STUD TRACK, SCREWED BACK TO BACK W/ $^3\!\!/_8$ "L TYPE S PAN HEAD

STUD BRACING W/ATTACHMENT CLIPS (REF. ITEMS A, B & C FOR SPACING REQ'S)

- STUD BLOCKING W/ATTACHMENT CLIPS (REF. ITEMS A, B & C FOR SPACING REQ'S)

IRC SECTION R302.2.2)

DEPTH OF 8" (R-6.3 / INCH)

FRAMING CLIP - REF STRUCT

SCREWS @ 24" 0.C.

— FLOOR SHT'G

[−]¾" AIRSPACE

- 5/8" TYPE 'X' GWB

TOP OF SUBFLOOR TOP OF CONC SLAB

 $-1^{''}$ GYP SHAFTLINER, 2 LAYERS

POWDER-ACTUATED FASTENER - REF STRUCT

- ACOUSTICAL CAULKING UNDER SILL PLATE - UL-LISTED SEALANT (TYPE AS)

SEALANT ALONG EDGES OF TRACK

UL-LISTED SEALANT (TYPE AS)

FRAMING - REF STRUCT

 $-\frac{3}{4}$ " Type 'X' GWB fireblocking @ Roof framing

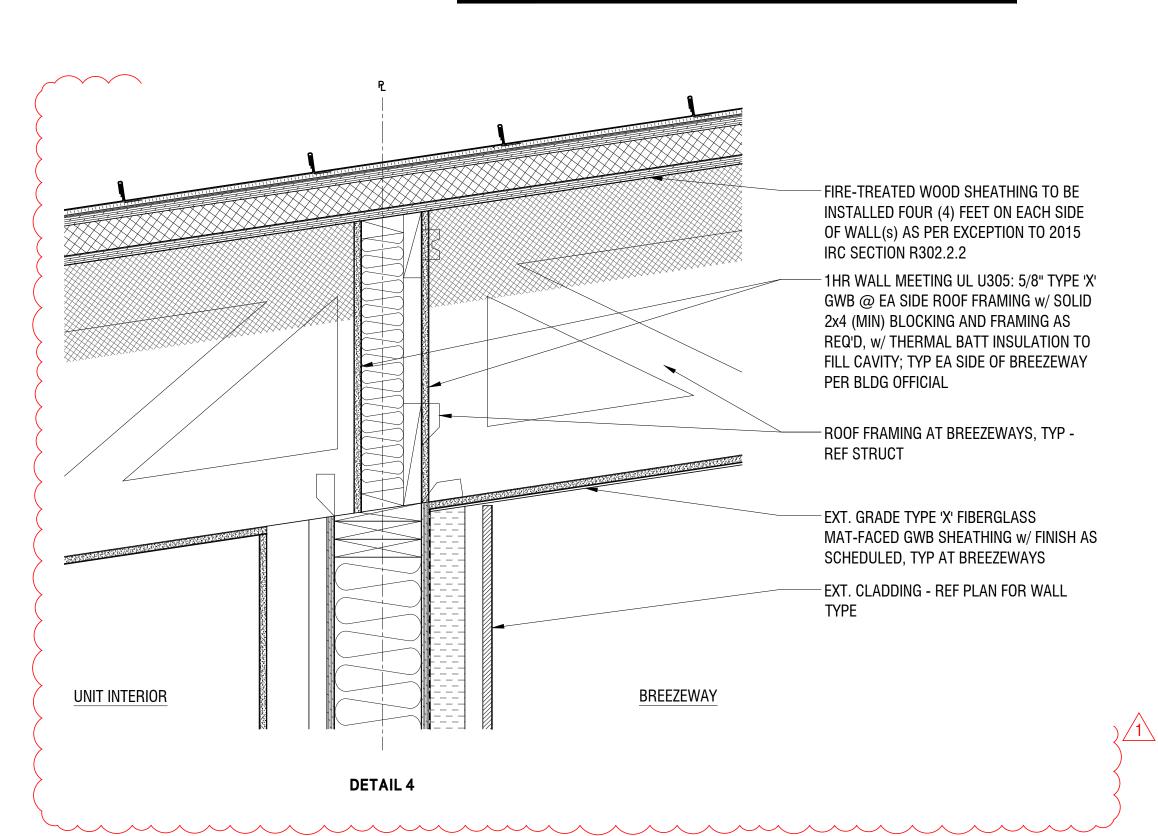
-FLOOR JOIST SPACE FILLED W/FIBERGLASS BATT INSUL

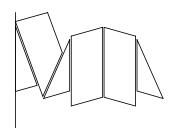
 $^{-3}$ /" Type 'X' Gwb fireblocking @ Ea. Floor Level

CEILING, AS SCHEDULED ($\frac{5}{8}$ " GWB W/PTD FINISH, UNO)

SEALANT (TYPE AS)

INSULATION O/ STRUCTURAL WOOD ROOF SHEATHING (FIRE-TREATED SHEATHING TO BE INSTALLED FOUR (4) FEET ON EACH SIDE OF WALL(s) AS PER EXCEPTION TO 2015





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sma project no. 16-101

> sma project name POWDERCAT

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No. 7829867-0301 june 30, 2017 🖔

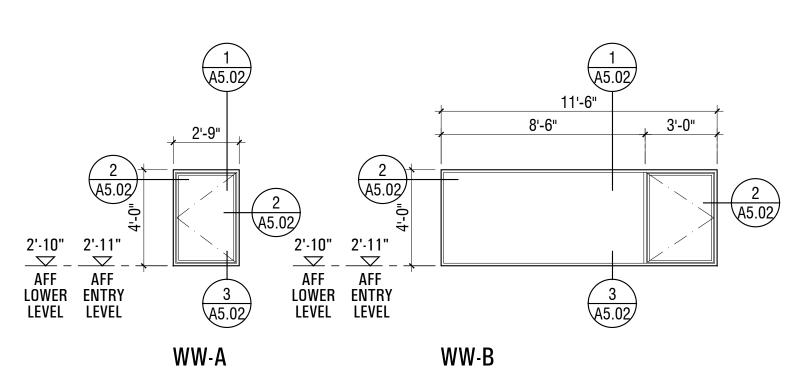
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! NOTE! Typical, non-mirrored, unit is shown. Mirrored typical units have opposite configuration, with opposite hinged/sliding setup. Refer to overall building plan, sheet a1.20 for mirrored/non-mirrored layout.



A5.02

3'-0"

2'-11"

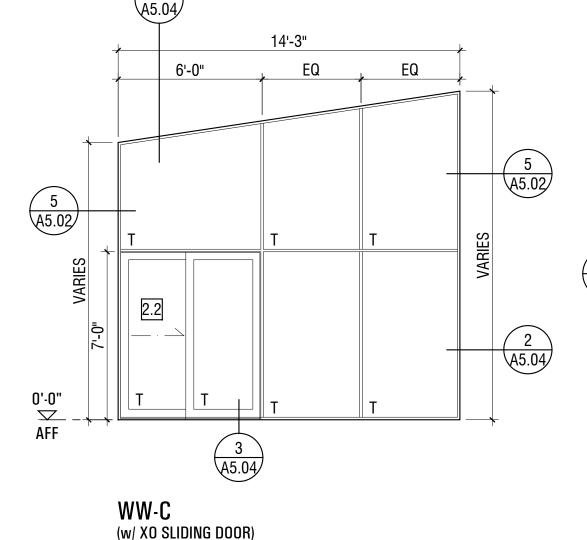
AFF

WW-D

WW-B

A5.02

A5.02



19'-8<u>1</u>"

EQ

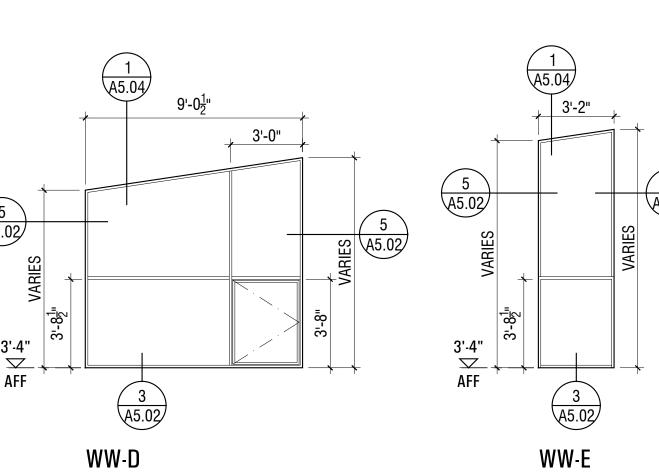
3 A5.04

 $\begin{pmatrix} 1 \\ A5.04 \end{pmatrix}$

WW-E (w/ XO SLIDING DOOR)

5 A5.02

3'-0"



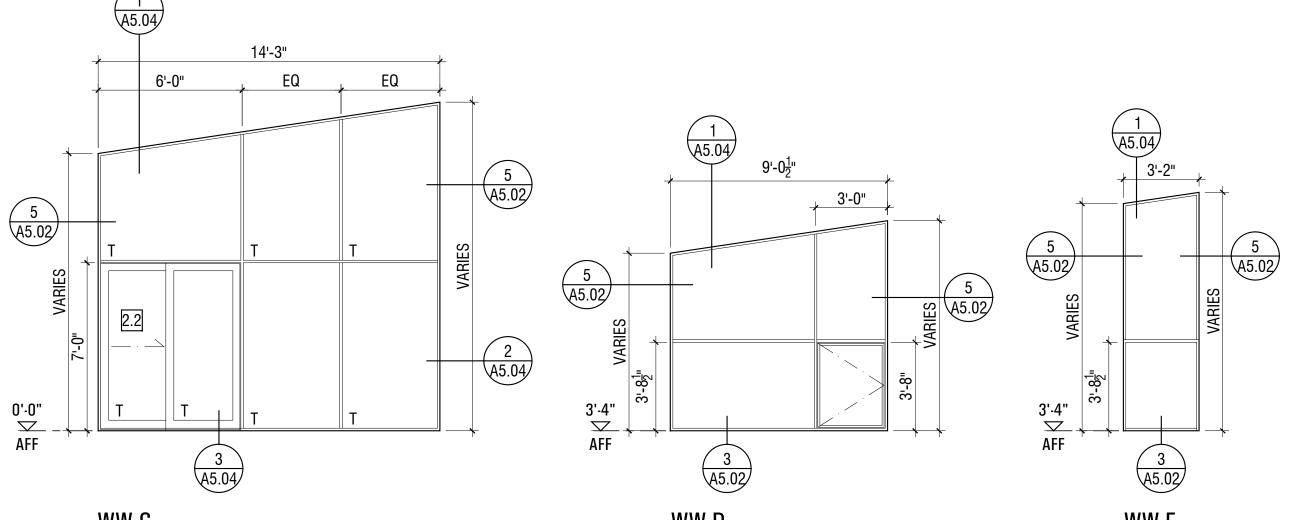
WINDOW ELEVATIONS - TYPICAL UNIT

3'-0"

A5.02

WW-C

 $\begin{pmatrix} 1 \\ A5.02 \end{pmatrix}$

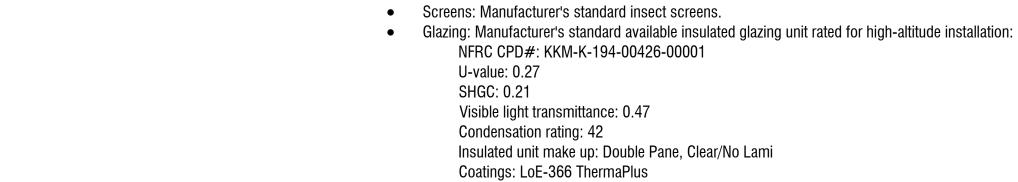


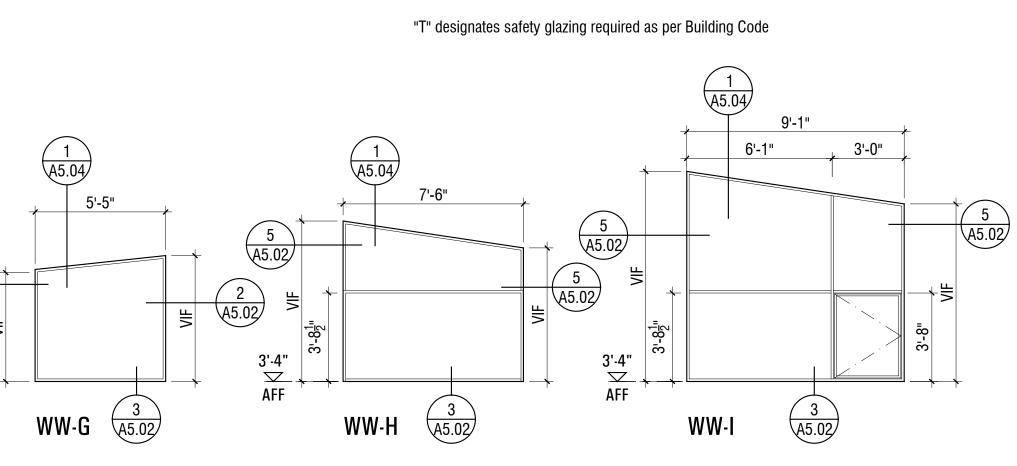
 $\begin{pmatrix} 1\\ A5.04 \end{pmatrix}$

A5.02

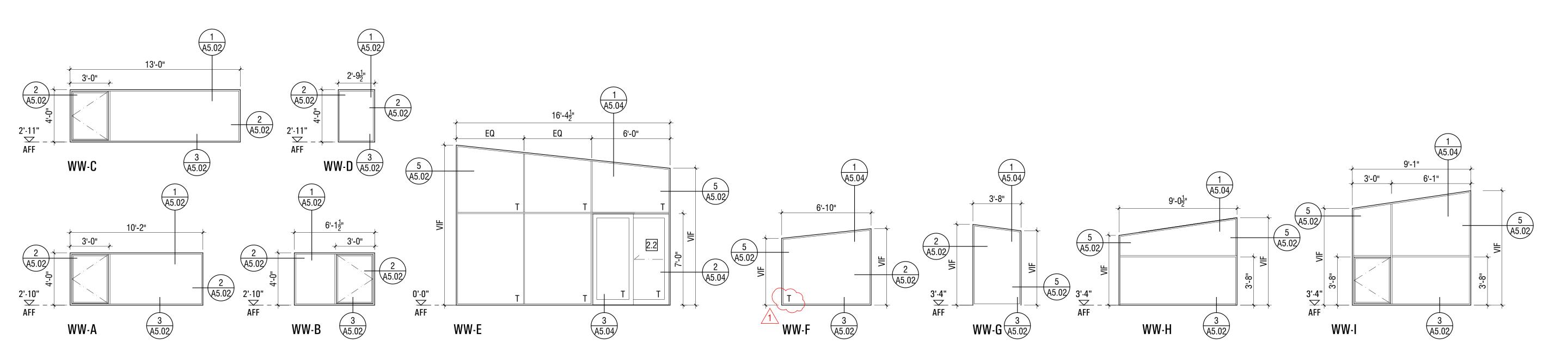
A5.02

3'-4" ___





WINDOW ELEVATIONS - LOT 124



WINDOW ELEVATIONS - LOT 133

GENERAL WINDOW SCHEDULE NOTES

- i. Refer to 'general sheets' for general notes, symbols, legends & abbreviations
- ii. Refer to building plans and exterior elevations for window wall locations
- iii. Refer to door schedule and details for additional information
- iv. Refer to plans for window marks and door swings.
- Glass sizes indicated are approximate and are provided as a general guide for reference only. Contractor to field verify all openings and correct any deviations from specified framing tolerances prior to proceeding; contractor to field verify all window dimensions prior to ordering ("guaranteed framing dimensions" will not be accepted).
- 2. Dimensions are to outside f.o. perimeter frame, not rough opening, and centerlines of intermediate mullions, typ u.n.o.
- 3. Dimensions at doors are to f.o. door slab/mullion, typ u.n.o.
- 4. All glazing used within 18" of a floor, glazing subject to human impact, and glazing within a 24" arc of a door, adjacent to stairs/ramps, and other hazardous locations as defined by the Code shall be fully tempered, or laminated glass.
- Window manufacturer is responsible for performing all engineering as required for detailing windows and mulled sections to accommodate story drift and wind loading. Contractor shall include all costs as required for steel reinforcing, hardwood and other components as required to accomplish daylight openings as per window elevations. All engineering calculations are to be provided to Structural Engineer of Record prior to procuring windows for coordination with building structure.
- Window manufacturer is responsible for providing all internal steel reinforcing at mulled sections, and for all matching sash cladding and trim required to conceal reinforcement at mulled conditions.

WINDOW SPECIFICATIONS (Basis of Design):

- Window frame wood species: paint-grade wood
- Window frame interior finish: pre-finished white, or primed for field painting if shop-finished is not available
- Exterior window cladding color: To be selected from manufacturer's standard colors.
- Window hardware: Manufacturer's standard hardware in standard "Black" finish.
- - Gas fill: Air (provide open breather tubes to be sealed upon delivery to site).
 - Spacer: Stainless Steel
 - Lite divisions: Onelite



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16-101

1/4" = 1'-0" scale

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ABBREVIAT	TIONS:		
ALUM	aluminum clad wd	PTD	painted
CA	clear anodized	R0	rough opening
DR(S)	door(s)	S-C	self-closing
DTL'S	details	SCWD	solid core wood
(E) or (e)	existing		door
GL	glass		
Н	high, height	SF	storefront
HCWD	hollow core wood	SL	sidelite
	door	STC	sound transmission
HM	hollow metal		class
HR	hour	STD	standard
HW	hardware	STL	steel
MANUF	manufacturer	SSTL	stainless steel
MIN	minute	TR	transom
NR	non rated	TS	tube steel
OH	overhead	VP	vision panel
PM	perforated metal	W	width
PR	pair	WD	wood

* REFER TO HARDWARE SCHEDULE FOR ADDITIONAL INFORMATION * **ALL DOOR HANDING IS BY CONTRACTOR AND DOOR SUPPLIER; NOTE ALL REFERENCES AND DETAILS ARE MADE TO TYPICAL UNIT: MIRRORED UNITS ARE OPPOSITE CONFIGURATION WITH OPPOSITE HANDING AND HARDWARE. REFER TO SITE PLAN FOR MIRRORED/NON-MIRRORED LAYOUT.**

DOOR SCHEDULE - TYPICAL LOTS

SIZE (W x H x THK)

3'-0" x 8'-6" x 1-3/8"

0.1 2'-10" x 7'-0" x 1-3/8"

0.3 2'-10" x 7'-0" x 1-3/8"

0.4 3'-0" x 7'-0" x 1-3/8"

0.5 2'-10" x 7'-0" x 1-3/8"

1.1 9'-0" x 7'-0"* x 2-1/2"

1.2 3'-1-1/2" x 7'-0" x 2"

1.3 | 3'-0" x 7'-0" x 2-1/2"

1.5 2'-6" x 7'-0" x 1-3/8" (PR)

1.6 2'-4" x 7'-0" x 1-3/8"

1.7 2'-6" x 7'-0" x 1-3/8"

1.8 3'-0" x 7'-0" x 1-3/8"

2.1 2'-4" x 7'-0" x 1-3/8"

2.2 6'-0" x 7'-0" x 1-3/4"

of finished door header.

[6] Provide 1-1/4" undercut on all doors to laundry, typ.

0.2

D00R

TYPE

C1

C2

MAT'L

SCWD

SCWD

SCWD

WD

SCWD

D1 SCWD

[1] Custom exterior wood door with matching flush transom and sidelight - ref specifications.

C1.1 SCWD

Match frame depth to finished wall thickness, typically 4-3/4" or 6-3/4".

C1 | SCWD | 1-1/4" x 4-3/4" |

with one (1) unique bottom panel sized to align with garage slab elevation. See typical door detail 1/A5.03.

[3] Fabricated tube steel pocket door frame for 2x4 or 2x6 framed wall; ref details and field verify stud size for coordination.

C1 | SCWD

C2 SCWD

D1 SCWD

SIZE

N/A

N/A

1.4 3'-0" x 7'-0" x 1-3/8" C1 SCWD [4] WD 3/A5.11 3/A5.11 -/- N/A 2.1

N/A

WD

WD

WD

[2] Custom segmented overhead wood garage door with metal cladding to match adjacent metal wall cladding; door consists of standard panel segments

[5] Provide blocking in floor framing and header for pivots - recess bottom pivot mount flush with finished floor, and recess top pivot flush with bottom face

A | SCWD | 1-1/4" x 4-3/4" | WD | 8/A5.03 | 10/A5.03 | 11/A5.03 | N/A

- Net door height equals nominal door size minus 1/8" top clearance & 5/8" bottom clearance from door threshold (verify w/ mfr.) or finished floor elevation, typical u.n.o. - refer to details and hardware
- groups for special undercut requirements for door bottom. Net door width equals nominal door size minus 1/8" side clearance each side, typical u.n.o.
- 3. Glazing used in doors, glazing adjacent to doors, glazing within 18" of a floor, glazing subject to human impact, & glaz'g within a 24" arc of a door shall be fully tempered or laminated glass in accordance with IRC 308.
- 4. Contractor to field verify all openings and correct for any deviations
- & tolerances prior to proceeding. Refer to plan for swing (or slide) direction.
- All as viewed from the exterior/outside.
- Reinforce all hardware locations within doors and frames.
- 8. If provided, locate vision panels in center of door or as per door type. Provide 1/2" square glazing bead at perimeter of vision panel (both sides), typ u.n.o.
- 9. All keying shall be determined by Owner.
- 10. Finishes shall be applied to all exposed sides of doors, including tops and bottoms, whether visible or not.

DOOR AND HARDWARE SPECIFICATION NOTES:

DETAILS

JAMB

2/A5.11

-/-

5/A5.11

SILL

-/-

-/-

-/-

WD* | 4/A5.03 | 2,5/A5.03 | 3/A5.03 | N/A | BY MFR |[2]

HEAD

1/A5.11

WD | 5/A5.11 | 5/A5.11

WD | 4/A5.11 | 5/A5.11 |

-/-

5/A5.11

5/A5.11 5/A5.11

4/A5.11 5/A5.11

WD | 5/A5.11 | 5/A5.11 |

E ALU 7/8" x 4-1/2" ALU -/- 2/A5.04 3/A5.04 Y BY MFR

5/A5.11 5/A5.11

| 1/A5.11 | 2/A5.11

- 1. Egress doors shall be readily openable from the egress side without
- the use of a key or special knowledge or effort. [IRC 311.2]. All hardware to meet BHMA standards; provide full complement of hardware, weatherstripping, and accessories as required for a complete installation.
- 3. Coordinate hardware requirements with door thickness; provide extended spindles or other modifications as required.
- 4. All interior door lever sets, pocket door hardware, and bi-pass door hardware to be supplied from a single manufacturer from the same series, in identical finishes.

SAFETY HDW

N/A 2

N/A

N/A

N/A

N/A

N/A

N/A

N/A 3

GLAZ'G | SET # | REMARKS

3

3.1

DOOR HARDWARE SCHEDULE

ACCEPTABLE MANUFACTURERS -

HINGES: Square corner full mortise butt hinges in finish US26D for exterior, US19 for interior, supplied by Emtek, or as supplied by Stanley Hardware, Schlage, or equivalent.

LEVER SETS: Exterior - FSB, no substitutions; Interior - Basis of Design: Emtek

POCKET/BI-PASS HARDWARE: Basis of Design: Emtek

DEADBOLTS: Basis of Design: Emtek

SET DESCRIPTION:

- Exterior Door Weatherstripping: by door fabricator; Threshold: Pemko 75518D bronze anodized aluminum; Butt Hinges: by door fabricator, US32D finish, heavy duty ball bearing (x3); Entry lever set: Emtek "Helios" lever with Emtek "EL-EM Touch" single cylinder 'smart' deadbolt in US19 finish; Door stop: Ives FS18S; Door Viewer: Emtek #2610 in US15 finish; Doorbell: Emtek "RO-09" push button with disc rosette in US19 finish, transformer and chime by Nutone 16v model C907 located in garage, and model LA39WH painted to match wall located in entry level closet.
- Interior Storage/Utility Door Butt Hinges: Emtek "Square Barrel" 3-knuckle hinges (x3) in matte black finish; Lever set: Emtek "Helios" lever with Emtek #8467 single cylinder deadbolt in US19 finish; Door stop: Ives FS18S if inside storage/utility room, or Emtek "2233 extendable baseboard
- Interior Garage Door: Threshold: Pemko 75518D bronze anodized aluminum; Butt Hinges: Emtek "Square Barrel" 3-knuckle hinges (x3) in matte black finish, (1) to be self-closing; Lever set: Emtek "TS-STP" Single cylinder deadbolt entry lever with "Helios" lever #5312 in matte black finish; Door stop: Ives FS18S.
- Interior Passage (swing) Door Butt Hinges: Emtek "Square Barrel" 3-knuckle hinges (x3) in matte black finish; Lever set: Emtek "Helios" lever with disc rosette and privacy function in matte black finish; Door stop: Emtek #2233 extendable baseboard door stop in US19 finish.
- 3.1 Same as hardware set 3 provide passage function lever set
- Interior Passage (pocket) Door Acoustic seals: Zero International sliding and pocket door system; Pocket door hardware: Emtek "TS" Modern Rectangular Mortise lock with privacy function in matte black finish. Pocket door track by frame manufacturer.
- Interior Closet/Laundry Door Pivots: Ives 7253 top and bottom pivot set in US26D finish; Dummy handle set: Emtek "Helios" lever with disc rosette and dummy function in matte black finish; Ball catch: Stanley 1440 in satin chrome finish (x2 - install at head and sill, typical).
- 5.1 Same as hardware set 5 provide for paired doors (x2 qty).
- Exterior Utility Panel Continuous Hinge: Pemko BLFMSLISF-HD3 in black anodized finish; Ball catches: Ives 347 stainless steel ball catch (x2), install at 1/3 points from top and bottom edges.
- 7. Bi-pass Closet Doors Track: Tektrim Double Flush Pocket Door Track system with tracks, end mounting plates, and bottom guide track/plunger by track hardware manufacturer; Door Stop: by track hardware manufacturer; Pulls: Emtek #2211 flush round pull in US19 finish.

	DOOR			FRAME			DETAILS		SAFETY	HDW	
#	SIZE (W x H x THK)	TYPE	MAT'L	SIZE	MAT'L	HEAD	JAMB	SILL	GLAZ'G	SET #	REMARKS
0.1	2'-10" x 7'-0" x 1-3/8"	C1	SCWD	[4]	WD	5/A5.11	5/A5.11	-/-	N/A	3	
0.2	2'-10" x 7'-0" x 1-3/8"	C1	SCWD	[4]	WD	5/A5.11	5/A5.11	-/-	N/A	2	
0.3	3'-0" x 7'-0" x 1-3/8"	C2	SCWD	[3]	WD	1/A5.11	2/A5.11	-/-	N/A	4	
0.4	2'-10" x 7'-0" x 1-3/8"	D1	SCWD	[4]	WD	4/A5.11	5/A5.11	-/-	N/A	3	
0.5	2'-10" x 7'-0" x 1-3/8"	C1	SCWD	[4]	WD	5/A5.11	5/A5.11	-/-	N/A	2	
0.6	2'-10" x 7'-0" x 1-3/8"	D1	SCWD	[4]	WD	4/A5.11	5/A5.11	-/-	N/A	3	
0.7	2'-0" x 7'-0" x 1-3/8"(PR)	C4	SCWD	[4]	WD	-/-	-/-	-/-	N/A	7	
8.0	2'-0" x 7'-0" x 1-3/8"(PR)	C4	SCWD	[4]	WD	-/-	-/-	-/-	N/A	7	
1.1	9'-0" x 7'-0"* x 2-1/2"	F	SCWD	N/A	WD*	4/A5.03	2,5/A5.03	3/A5.03	N/A	BY MFR	[2]
1.2	3'-1-1/2" x 7'-0" x 2"	G	WD	N/A	N/A	-/-	-/-	-/-	N/A	6	
1.3	3'-0" x 7'-0" x 2-1/2"	Α	SCWD	1-1/4" x 4-3/4"	WD	8/A5.03	10/A5.03	11/A5.03	N/A	1	[1]
1.4	3'-0" x 7'-0" x 1-3/8"	C1	SCWD	[4]	WD	3/A5.11	3/A5.11	-/-	N/A	2.1	
1.5	2'-6" x 7'-0" x 1-3/8" (PR)	C3	SCWD	N/A	N/A	-/-	-/-	-/-	N/A	5.1	[5], [6]
1.6	2'-4" x 7'-0" x 1-3/8"	C1	SCWD	[4]	WD	5/A5.11	5/A5.11	-/-	N/A	3.1	
1.7	2'-6" x 7'-0" x 1-3/8"	C1	SCWD	1-1/4" x 4-3/4"	WD	5/A5.11	5/A5.11	-/-	N/A	3	
1.8	2'-10" x 7'-0" x 1-3/8"	D1	SCWD	[4]	WD	4/A5.11	5/A5.11	-/-	N/A	3	
1.9	3'-0" x 8'-6" x 1-3/8"	C2	SCWD	[3]	WD	1/A5.11	2/A5.11	-/-	N/A	4	

2.2 | 6'-0" x 7'-0" x 1-3/4" | E | ALU | 7/8" x 4-1/2" | ALU | -/- | 2/A5.04 | 3/A5.04 | Y | BY MFR

IOR SCHEDULE - LOT 133

טטט	N SCHEDOLL - LOT 13	JJ									
	D00R			FRAME	=		DETAILS	_	SAFETY	HDW	
#	SIZE (W x H x THK)	TYPE	MAT'L	SIZE	MAT'L	HEAD	JAMB	SILL	GLAZ'G	SET #	REMARKS
0.1	2'-10" x 7'-0" x 1-3/8"	C1	SCWD	[4]	WD	5/A5.11	5/A5.11	-/-	N/A	3	
0.2	2'-10" x 7'-0" x 1-3/8"	C1	SCWD	[4]	WD	5/A5.11	5/A5.11	-/-	N/A	2	
0.3	3'-0" x 7'-0" x 1-3/8"	C2	SCWD	[3]	WD	1/A5.11	2/A5.11	-/-	N/A	4	
0.4	2'-0" x 7'-0" x 1-3/8"(PR)	D1	SCWD	[4]	WD	4/A5.11	5/A5.11	-/-	N/A	3	
0.5	2'-10" x 7'-0" x 1-3/8"	C1	SCWD	[4]	WD	5/A5.11	5/A5.11	-/-	N/A	2	
0.6	2'-10" x 7'-0" x 1-3/8"	D1	SCWD	[4]	WD	4/A5.11	5/A5.11	-/-	N/A	3	
0.7	3'-3" x 7'-0" x 1-3/8"(PR)	C4	SCWD	[4]	WD	-/-	-/-	-/-	N/A	7	
1.1	9'-0" x 7'-0"* x 2-1/2"	F	SCWD	N/A	WD*	4/A5.03	2,5/A5.03	3/A5.03	N/A	BY MFR	[2]
1.2	3'-1-1/2" x 7'-0" x 2"	G	WD	N/A	N/A	-/-	-/-	-/-	N/A	6	
1.3	3'-0" x 7'-0" x 2-1/2"	Α	SCWD	1-1/4" x 4-3/4"	WD	8/A5.03	10/A5.03	11/A5.03	N/A	1	[1]
1.4	3'-0" x 7'-0" x 1-3/8"	C1	SCWD	[4]	WD	3/A5.11	3/A5.11	-/-	N/A	2.1	
1.5	2'-6" x 7'-0" x 1-3/8" (PR)	C3	SCWD	N/A	N/A	-/-	-/-	-/-	N/A	5.1	[5], [6]
1.6	2'-4" x 7'-0" x 1-3/8"	C1	SCWD	[4]	WD	5/A5.11	5/A5.11	-/-	N/A	3.1	
1.7	2'-6" x 7'-0" x 1-3/8"	C1	SCWD	1-1/4" x 4-3/4"	WD	5/A5.11	5/A5.11	-/-	N/A	3	
1.8	2'-10" x 7'-0" x 1-3/8"	D1	SCWD	[4]	WD	4/A5.11	5/A5.11	-/-	N/A	3	
1.9	3'-0" x 8'-6" x 1-3/8"	C2	SCWD	[3]	WD	1/A5.11	2/A5.11	-/-	N/A	4	
2.1	2'-4" x 7'-0" x 1-3/8"	C1.1	SCWD	[4]	WD	5/A5.11	5/A5.11	-/-	N/A	3	
2.2	6'-0" x 7'-0" x 1-3/4"	Е	ALU	7/8" x 4-1/2"	ALU	-/-	2/A5.04	3/A5.04	Υ	BY MFR	

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sma project no.

sma project name POWDERCAT

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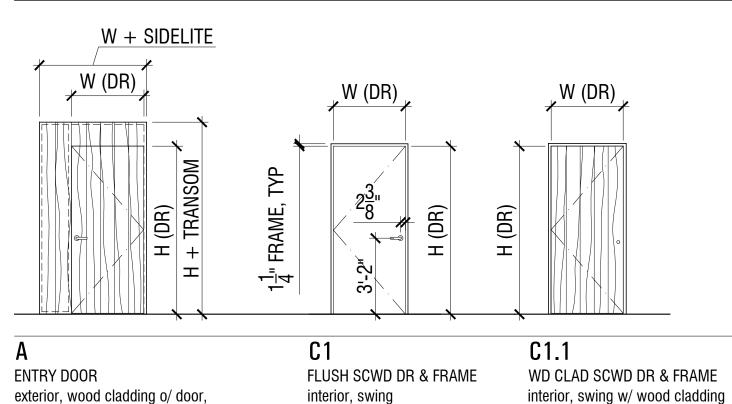
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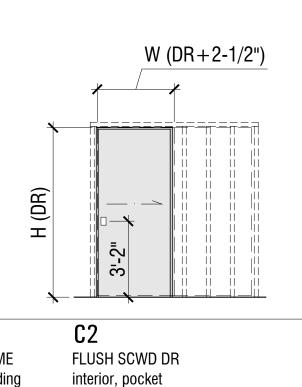
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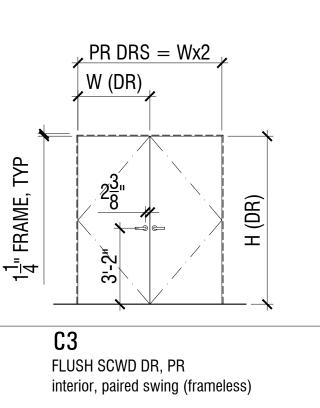
DOOR TYPES

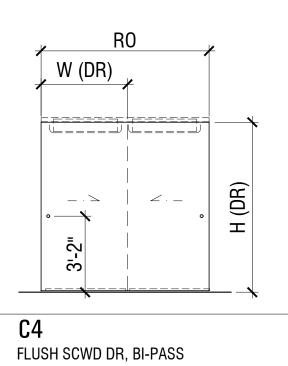
sidelite and transom

REMARKS:

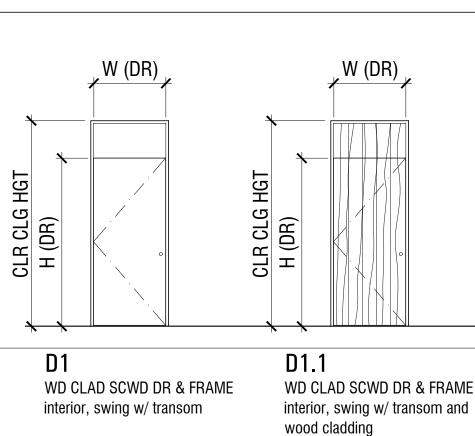


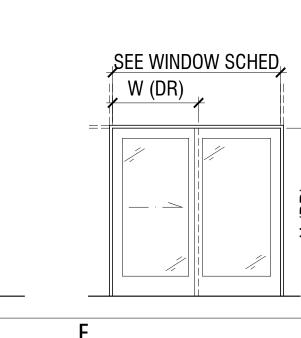






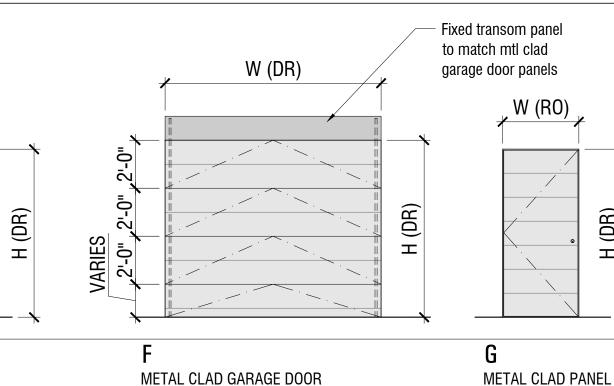
interior, paired sliding





ALUM CLAD WD DR & FRAME

exterior, sliding



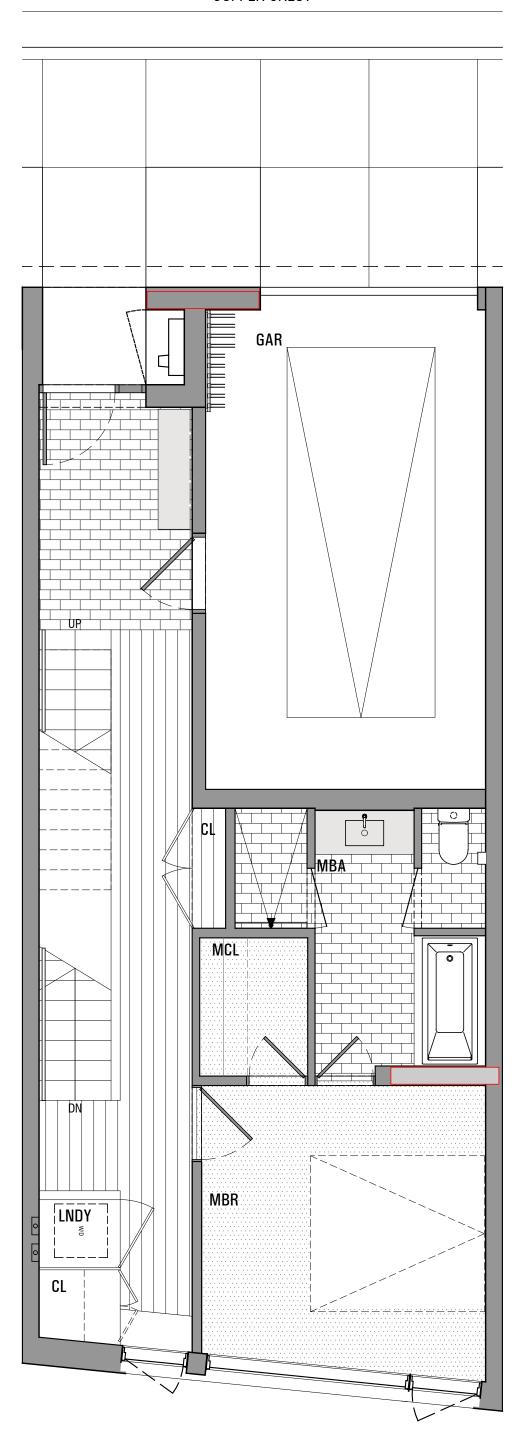
exterior, custom height

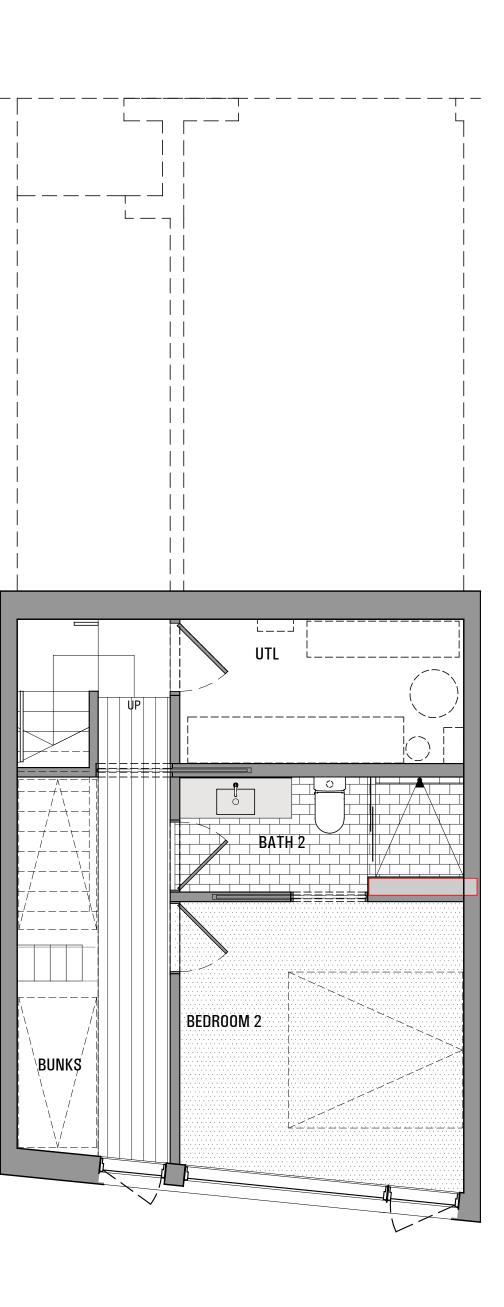




exterior, custom size

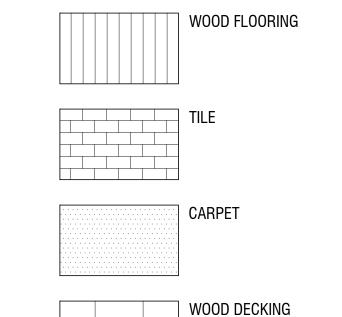
COPPER CREST





MATERIALS LEGEND

GENERAL NOTE: Refer to specifications sheet a0.20 - a0.21 for additional material information and installation requirements.



FINISH SCHEDULE

GENERAL NOTES:

Refer to plans, building sections, interior elevations, and details for specific conditions which may vary from typical conditions noted below. Refer to specifications for additional information on all finishes, accessories, and installation requirements. Contractor shall take care to review material transition requirements for coordination with substrates and concealed conditions - do not proceed with finishes installation without correcting any deficiencies. Review all finish requirements with Architect prior to commencing work.

ARRDE\/IATIONIC+

ARRKEAI	ATIONS:		
CA	clear anodized alum	GWB	gypsum wall board
CLG	ceiling	HDWD	hardwood
CLR	clear	MTL	metal
CONC	concrete	MWK	millwork
CPT	carpet	PNT/PTD	painted
DEFS	direct-applied exterior	RB	rubber base
	finish system	SCHD	scheduled
ENG	engineered	SLR	sealer
FF	finished floor	STL	steel
FIN	finish/finished	T	tile
GL	glass	WD	wood

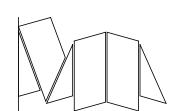
TYPICAL FINISH CONDITIONS:

CEILING: LEVEL 4 GWB w/ PAINTED FINISH. GLOSS LEVEL: FLAT WALLS, TYPICAL: LEVEL 4 GWB w/ PAINTED FINISH. GLOSS LEVEL: FLAT WALLS, BATHROOMS: PORCELAIN TILE @ ALL SHOWER AND TUB WALLS; SEE 'WALLS', TYPICAL FOR ALL OTHER WALLS

BASE: 4"H WOOD BASE w/ PIGMENTED LACQUER FINISH - REF. DETAIL. FLOOR: PORCELAIN TILE/PRE-FINISHED WD FLOOR/CARPET - REF FINISH/FURN PLANS

ROOM NAME	CEILINGS	WALLS	BASE	FL00R	REMARKS
LOWER LEVEL	-!	!			
BUNKS	PTD GWB	PTD GWB	WD	ENG WD	
UTILITY ROOM	PTD GWB	PTD GWB	RB	CONC	[3]
BATH 2	PTD GWB	PTD GWB	WD/T	T	[1]
BEDROOM 2	PTD GWB	PTD GWB	WD	CPT	
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
ENTRY LEVEL			'		
GARAGE	PTD GWB	PTD GWB	RB	CONC	[3]
ENTRY/ HALLWAY	PTD GWB	PTD GWB	WD	T/ENG WD	
MASTER BEDROOM	PTD GWB	PTD GWB	WD	CPT	
MASTER CLOSET	PTD GWB	PTD GWB	WD	CPT	
MASTER BATH	PTD GWB	PTD GWB	WD/T	Т	[1]
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
UPPER LEVEL		1	1	-	
KITCHEN/ DINING	PTD GWB	PTD GWB	WD	ENG WD	
LIVING	PTD GWB	PTD GWB	WD	ENG WD	
POWDER ROOM	PTD GWB	PTD GWB	WD/T	Т	[1]
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
TERRACE	DEFS	WD/MTL	N/A	WD	[2]

- [1] Refer to interior elevations for locations/extents of multiple materials. Provide clean, flush transitions at material joints, and provide neatly tooled, paintable siliconized
- [2] Refer to specific component details for additional information and installation/material
- [3] Provide clear sealer on all exposed concrete surfaces.



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sma project no. 16-101

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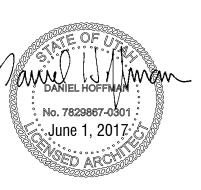
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A921
TYPICAL UNIT
ENTRY AND LOWER
LEVEL FINISH &
FURNITURE PLANS
1/4" = 1'-0"
scale

PERMIT SET phase / rev

2017.06.01 date

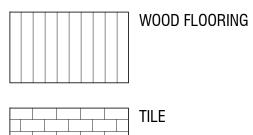
ALL FURNITURE IS N.I.C., U.N.O. REF UNIT PLANS AND INTERIOR ELEVATIONS FOR ALTERNATE FOR ARCHITECTURAL MILLWORK / CABINETRY SHOWN DASHED

AND HATCHED.

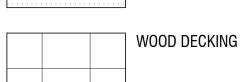
5'-5"Ø HOT TUB N.I.C.

MATERIALS LEGEND

GENERAL NOTE: Refer to specifications sheet a0.20 - a0.21 for additional material information and installation requirements.



CARPET



FINISH SCHEDULE

GENERAL NOTES:

Refer to plans, building sections, interior elevations, and details for specific conditions which may vary from typical conditions noted below. Refer to specifications for additional information on all finishes, accessories, and installation requirements. Contractor shall take care to review material transition requirements for coordination with substrates and concealed conditions - do not proceed with finishes installation without correcting any deficiencies. Review all finish requirements with Architect prior to commencing work.

ARRREVIATIONS:

ABBREVI	ATIONS:		
CA	clear anodized alum	GWB	gypsum wall board
CLG	ceiling	HDWD	hardwood
CLR	clear	MTL	metal
CONC	concrete	MWK	millwork
CPT	carpet	PNT/PTD	painted
DEFS	direct-applied exterior	RB	rubber base
	finish system	SCHD	scheduled
ENG	engineered	SLR	sealer
FF	finished floor	STL	steel
FIN	finish/finished	T	tile
GL	glass	WD	wood

TYPICAL FINISH CONDITIONS:

CEILING: LEVEL 4 GWB w/ PAINTED FINISH. GLOSS LEVEL: FLAT WALLS, TYPICAL: LEVEL 4 GWB w/ PAINTED FINISH. GLOSS LEVEL: FLAT WALLS, BATHROOMS: PORCELAIN TILE @ ALL SHOWER AND TUB WALLS; SEE 'WALLS', TYPICAL FOR ALL OTHER WALLS

BASE: 4"H WOOD BASE w/ PIGMENTED LACQUER FINISH - REF. DETAIL. FLOOR: PORCELAIN TILE/PRE-FINISHED WD FLOOR/CARPET - REF FINISH/FURN PLANS

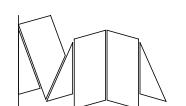
TVDICAL LOT

TYPICAL LOT					
ROOM NAME	CEILINGS	WALLS	BASE	FL00R	REMARKS
LOWER LEVEL					,
BUNKS	PTD GWB	PTD GWB	WD	ENG WD	
UTILITY ROOM	PTD GWB	PTD GWB	RB	CONC	[3]
BATH 2	PTD GWB	PTD GWB	WD/T	Т	[1]
BEDROOM 2	PTD GWB	PTD GWB	WD	CPT	
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
ENTRY LEVEL		1	•		
GARAGE	PTD GWB	PTD GWB	RB	CONC	[3]
ENTRY/ HALLWAY	PTD GWB	PTD GWB	WD	T/ENG WD	
MASTER BEDROOM	PTD GWB	PTD GWB	WD	CPT	
MASTER CLOSET	PTD GWB	PTD GWB	WD	CPT	
MASTER BATH	PTD GWB	PTD GWB	WD/T	Т	[1]
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
UPPER LEVEL					
KITCHEN/ DINING	PTD GWB	PTD GWB	WD	ENG WD	
LIVING	PTD GWB	PTD GWB	WD	ENG WD	
POWDER ROOM	PTD GWB	PTD GWB	WD/T	Т	[1]
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
TERRACE	DEFS	WD/MTL	N/A	WD	[2]

- [1] Refer to interior elevations for locations/extents of multiple materials. Provide clean, flush transitions at material joints, and provide neatly tooled, paintable siliconized
- [2] Refer to specific component details for additional information and installation/material
- [3] Provide clear sealer on all exposed concrete surfaces.

ALL FURNITURE IS N.I.C., U.N.O. REF UNIT PLANS AND INTERIOR ELEVATIONS FOR ALTERNATE FOR ARCHITECTURAL MILLWORK / CABINETRY SHOWN DASHED

AND HATCHED.



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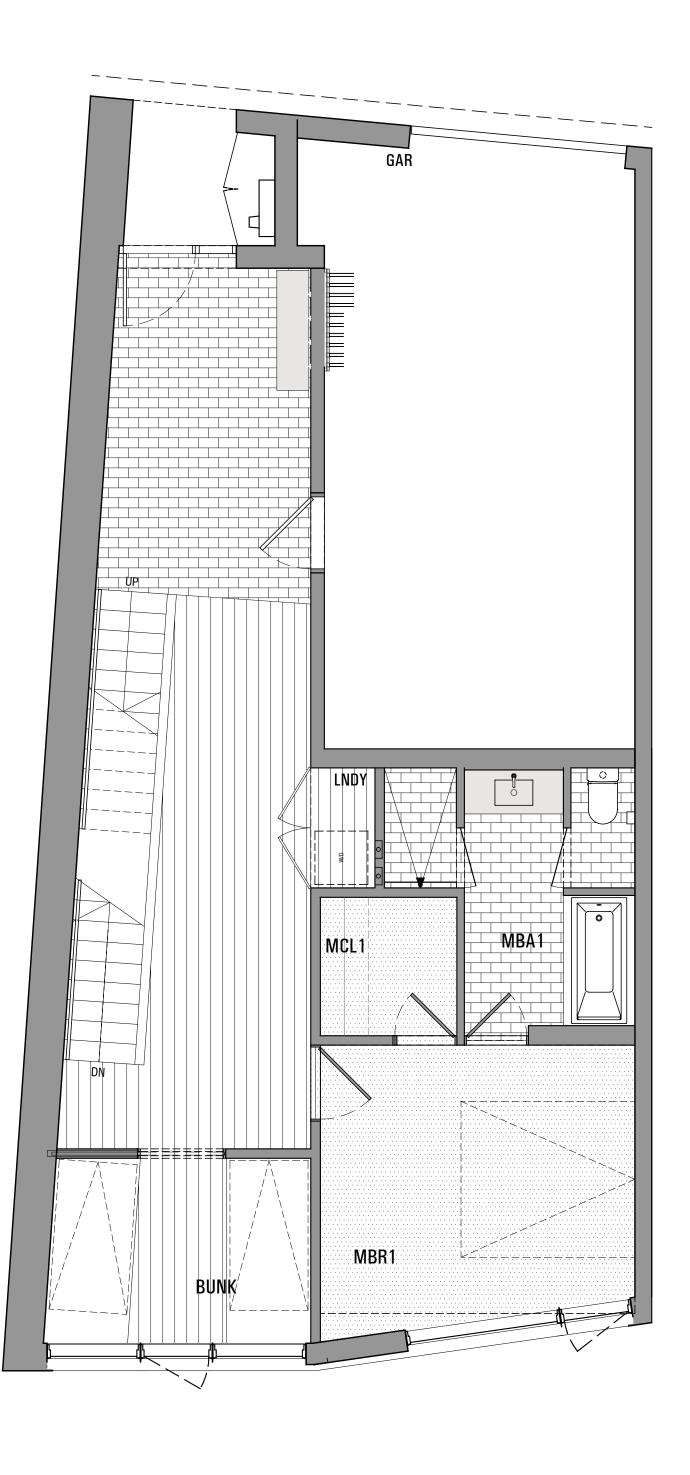


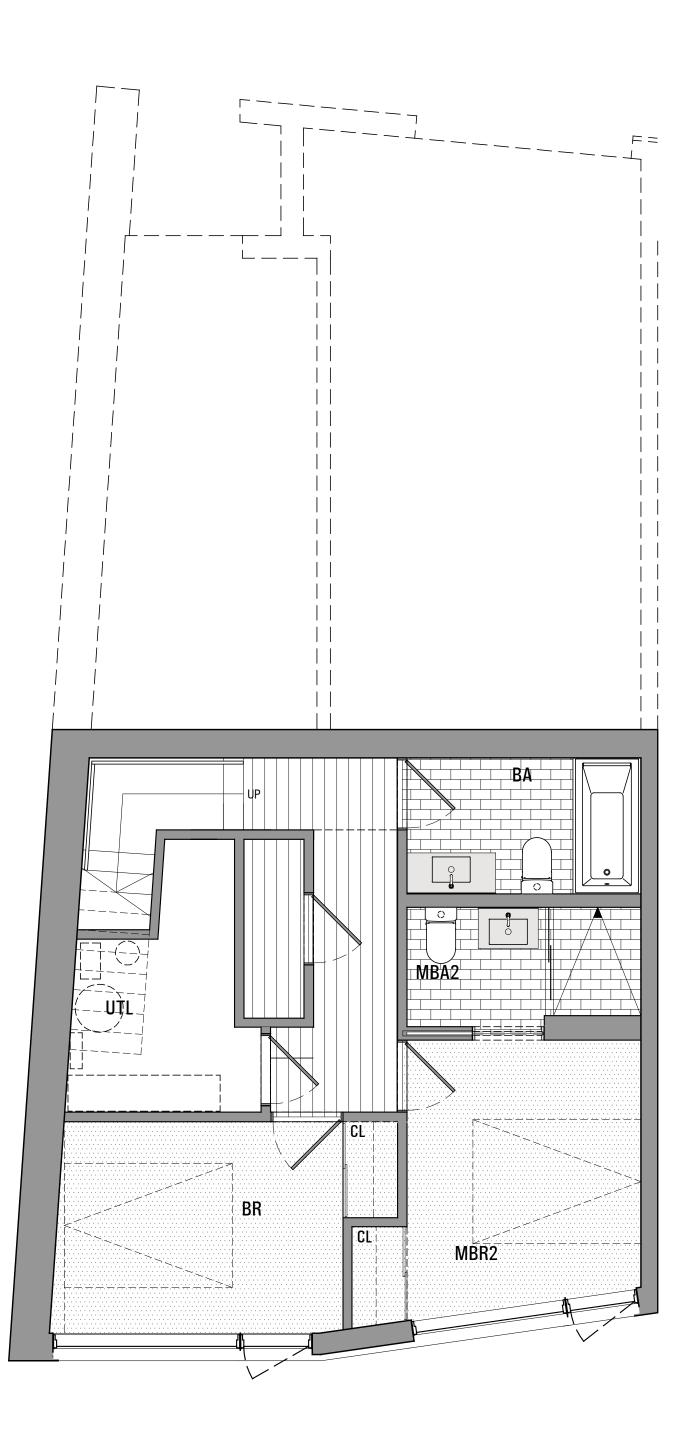
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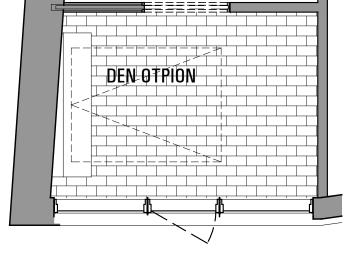
A9.22
TYPICAL UNIT
UPPER LEVEL FINISH
& FURNITURE PLAN

1/4" = 1'-0"

PERMIT SET phase / rev

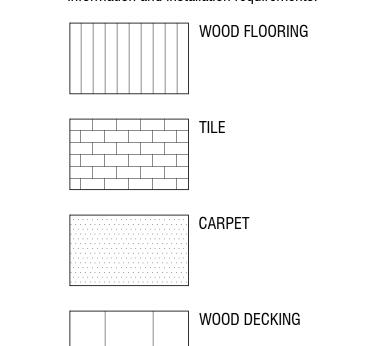






MATERIALS LEGEND

GENERAL NOTE: Refer to specifications sheet a0.20 - a0.21 for additional material information and installation requirements.



FINISH SCHEDULE

GENERAL NOTES:

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ADDDE\/IATIONIC+

CA CLG CLR CONC CPT DEFS	ABBREVIATI	ONS:		
	CA	clear anodized alum	GWB	gypsum wall board
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	CPT	carpet	PNT/PTD	painted
	DEFS	direct-applied exterior	RB	rubber base
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	ENG	engineered	SLR	sealer
	FF	finished floor	STL	steel
	FIN	finish/finished	T	tile
	GL	glass	WD	wood

TYPICAL FINISH CONDITIONS:

CEILING: LEVEL 4 GWB w/ PAINTED FINISH. GLOSS LEVEL: FLAT WALLS, TYPICAL: LEVEL 4 GWB w/ PAINTED FINISH. GLOSS LEVEL: FLAT WALLS, BATHROOMS: PORCELAIN TILE @ ALL SHOWER AND TUB WALLS; SEE 'WALLS', TYPICAL FOR ALL OTHER WALLS

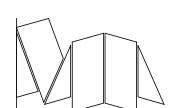
BASE: 4"H WOOD BASE w/ PIGMENTED LACQUER FINISH - REF. DETAIL. FLOOR: PORCELAIN TILE/PRE-FINISHED WD FLOOR/CARPET - REF FINISH/FURN PLANS

ROOM NAME	CEILINGS	WALLS	BASE	FL00R	REMARKS
LOWER LEVEL			1		
HALLWAY	PTD GWB	PTD GWB	WD	ENG WD	
CLOSET	PTD GWB	PTD GWB	WD	ENG WD	
UTILITY ROOM	PTD GWB	PTD GWB	RB	CONC	[3]
BATH	PTD GWB	PTD GWB	WD/T	T	[1]
BEDROOM	PTD GWB	PTD GWB	WD	CPT	
MASTER BATH 2	PTD GWB	PTD GWB	WD/T	T	[1]
MASTER BED 2	PTD GWB	PTD GWB	WD	CPT	
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
ENTRY LEVEL			•		
GARAGE	PTD GWB	PTD GWB	RB	CONC	[3]
ENTRY/ HALLWAY	PTD GWB	PTD GWB	WD	T/ENG WD	
MASTER BEDROOM 1	PTD GWB	PTD GWB	WD	CPT	
MASTER CLOSET	PTD GWB	PTD GWB	WD	CPT	
MASTER BATH	PTD GWB	PTD GWB	WD/T	T	[1]
BUNK	PTD GWB	PTD GWB	WD	ENG WD	
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
UPPER LEVEL	,		1		
KITCHEN/ DINING	PTD GWB	PTD GWB	WD	ENG WD	
LIVING	PTD GWB	PTD GWB	WD	ENG WD	
POWDER ROOM	PTD GWB	PTD GWB	WD/T	Т	[1]
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
TERRACE	DEFS	WD/MTL	N/A	WD	[2]

- Refer to interior elevations for locations/extents of multiple materials. Provide clean, flush transitions at material joints, and provide neatly tooled, paintable siliconized
- [2] Refer to specific component details for additional information and installation/material
- [3] Provide clear sealer on all exposed concrete surfaces.

ALL FURNITURE IS N.I.C., U.N.O.

REF UNIT PLANS AND INTERIOR ELEVATIONS FOR ALTERNATE FOR ARCHITECTURAL MILLWORK / CABINETRY SHOWN DASHED AND HATCHED.



STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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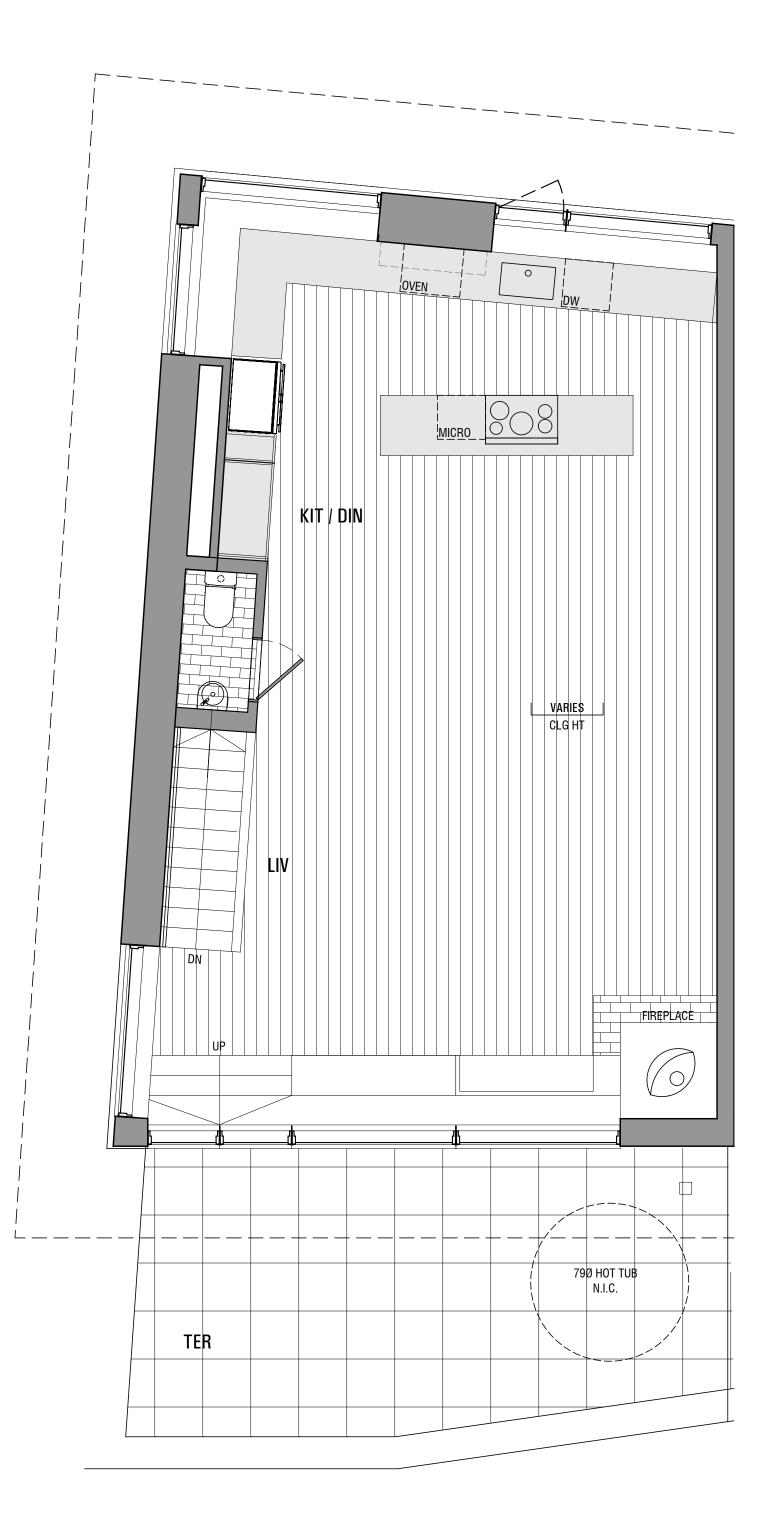


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ACCESSIBILITY FIRE PLAN REVIEW ACCEPTANCE OF DOCUMENT DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS. BY: MEM WEST COAST CODE CONSULTANTS, INC

LOWER LEVEL FINISH & FURNITURE PLANS

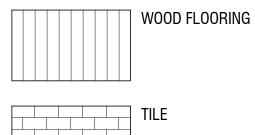
1/4" = 1'-0"

PERMIT SET phase / rev

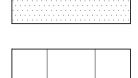


MATERIALS LEGEND

GENERAL NOTE: Refer to specifications sheet a0.20 - a0.21 for additional material information and installation requirements.



CARPET



WOOD DECKING

FINISH SCHEDULE

GENERAL NOTES:

Refer to plans, building sections, interior elevations, and details for specific conditions which may vary from typical conditions noted below. Refer to specifications for additional information on all finishes, accessories, and installation requirements. Contractor shall take care to review material transition requirements for coordination with substrates and concealed conditions - do not proceed with finishes installation without correcting any deficiencies. Review all finish requirements with Architect prior to commencing work.

ABBREVIATION	ONS:		
CA	clear anodized alum	GWB	gypsum wall board
CLG	ceiling	HDWD	hardwood
CLR	clear	MTL	metal
CONC	concrete	MWK	millwork
CPT	carpet	PNT/PTD	painted
DEFS	direct-applied exterior	RB	rubber base
	finish system	SCHD	scheduled
ENG	engineered	SLR	sealer
FF	finished floor	STL	steel
FIN	finish/finished	T	tile
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TYPICAL FINISH CONDITIONS:

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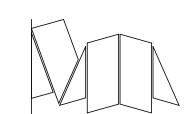
BASE: 4"H WOOD BASE w/ PIGMENTED LACQUER FINISH - REF. DETAIL. FLOOR: PORCELAIN TILE/PRE-FINISHED WD FLOOR/CARPET - REF FINISH/FURN PLANS

ROOM NAME	CEILINGS	WALLS	BASE	FL00R	REMARKS
LOWER LEVEL	L	1	1		1
HALLWAY	PTD GWB	PTD GWB	WD	ENG WD	
CLOSET	PTD GWB	PTD GWB	WD	ENG WD	
UTILITY ROOM	PTD GWB	PTD GWB	RB	CONC	[3]
BATH	PTD GWB	PTD GWB	WD/T	Т	[1]
BEDROOM	PTD GWB	PTD GWB	WD	CPT	
MASTER BATH 2	PTD GWB	PTD GWB	WD/T	T	[1]
MASTER BED 2	PTD GWB	PTD GWB	WD	CPT	
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
ENTRY LEVEL			•	•	
GARAGE	PTD GWB	PTD GWB	RB	CONC	[3]
ENTRY/ HALLWAY	PTD GWB	PTD GWB	WD	T/ENG WD	
MASTER BEDROOM 1	PTD GWB	PTD GWB	WD	CPT	
MASTER CLOSET	PTD GWB	PTD GWB	WD	CPT	
MASTER BATH	PTD GWB	PTD GWB	WD/T	T	[1]
BUNK	PTD GWB	PTD GWB	WD	ENG WD	
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
JPPER LEVEL			•	•	
KITCHEN/ DINING	PTD GWB	PTD GWB	WD	ENG WD	
LIVING	PTD GWB	PTD GWB	WD	ENG WD	
POWDER ROOM	PTD GWB	PTD GWB	WD/T	Т	[1]
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
TERRACE	DEFS	WD/MTL	N/A	WD	[2]

- [1] Refer to interior elevations for locations/extents of multiple materials. Provide clean, flush transitions at material joints, and provide neatly tooled, paintable siliconized
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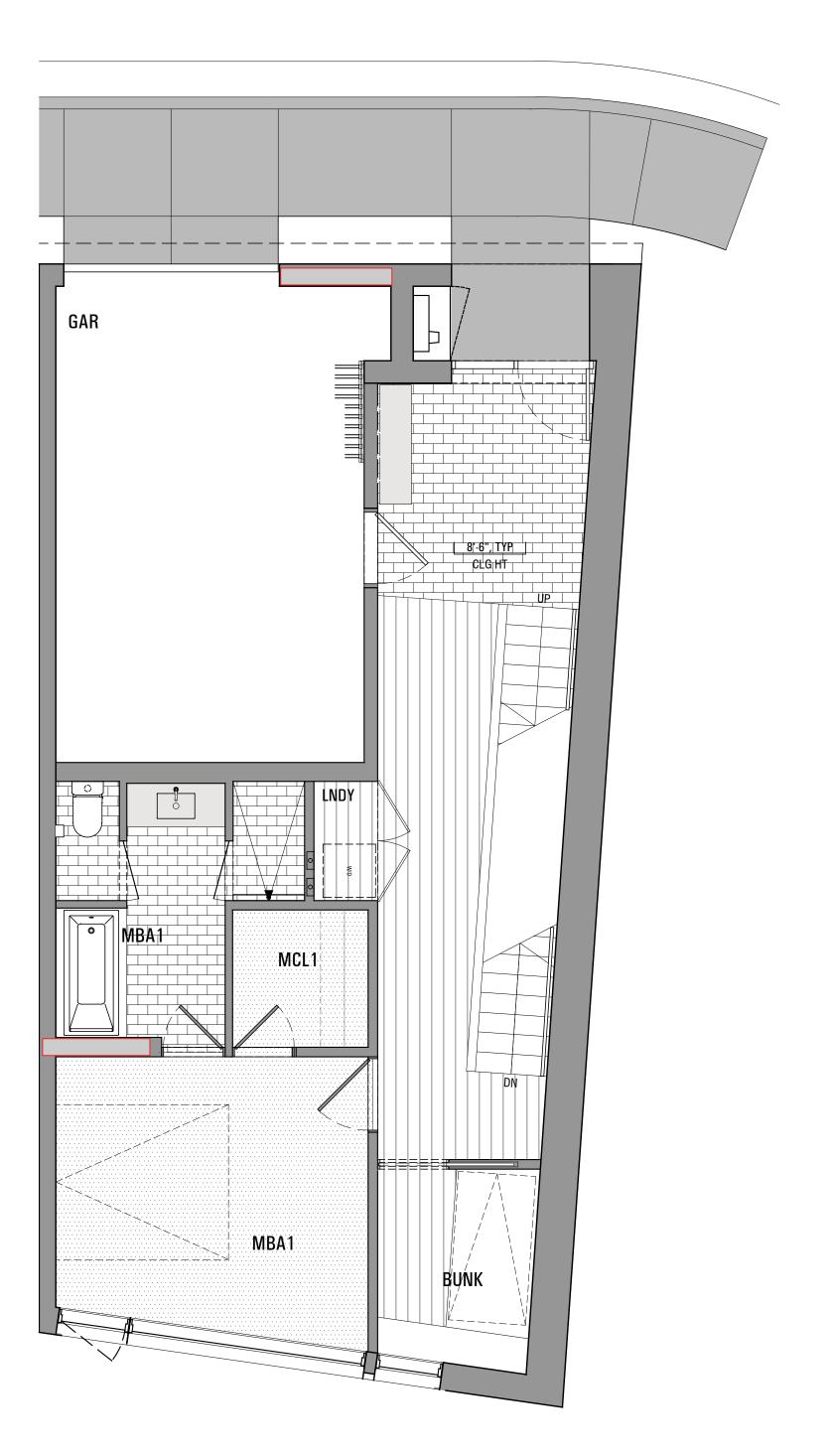
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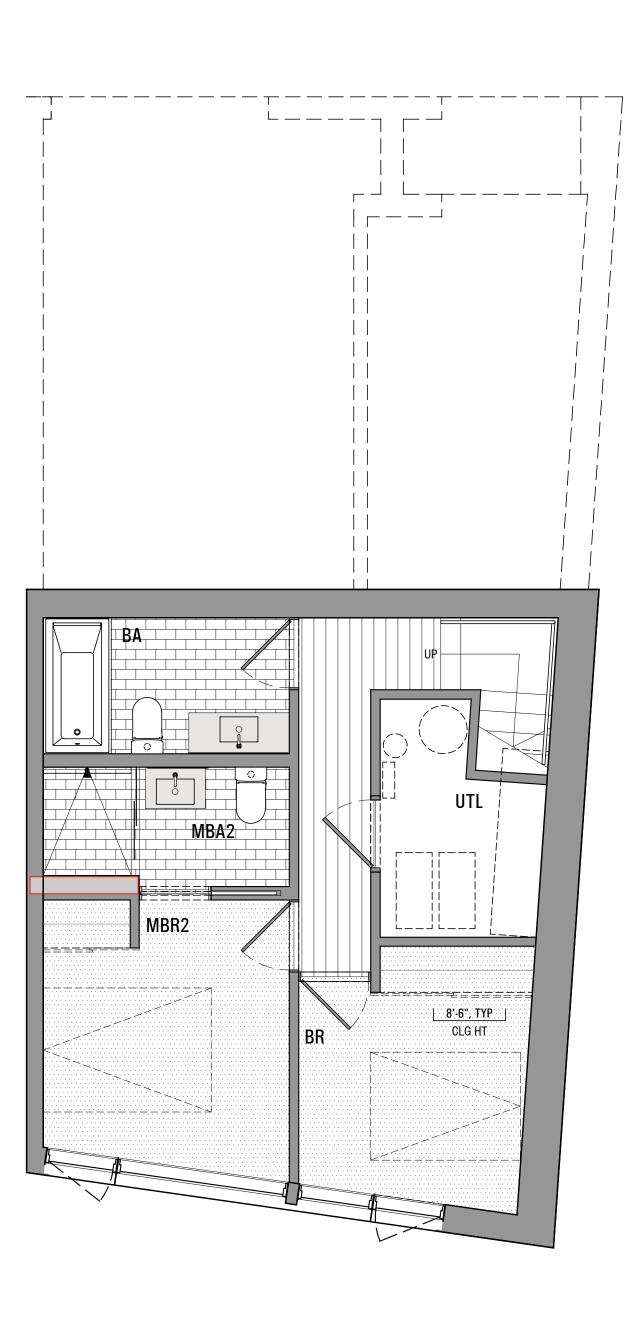
A9.24
LOT 124 UPPER
LEVEL FINISH &
FURNITURE PLAN

1/4" = 1'-0"

PERMIT SET phase / rev

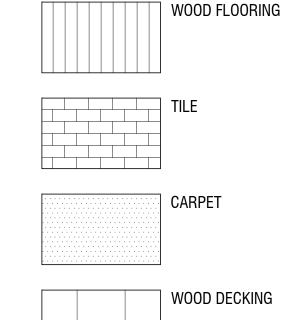
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MATERIALS LEGEND

GENERAL NOTE: Refer to specifications sheet a0.20 - a0.21 for additional material information and installation requirements.



FINISH SCHEDULE

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ARRDE\/IATIONIC+

ABBREVI <i>I</i>	ATIONS:				
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CPT	carpet	PNT/PTD	painted		
DEFS	direct-applied exterior	RB	rubber base		
	finish system	SCHD	scheduled		
ENG	engineered	SLR	sealer		
FF	finished floor	STL	steel		
FIN	finish/finished	T	tile		
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TYPICAL FINISH CONDITIONS:

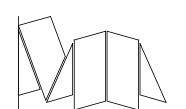
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LOWER LEVEL			1		1
HALLWAY	PTD GWB	PTD GWB	WD	ENG WD	
UTILITY ROOM	PTD GWB	PTD GWB	RB	CONC	[3]
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BEDROOM	PTD GWB	PTD GWB	WD	CPT	
MASTER BATH 2	PTD GWB	PTD GWB	WD/T	Т	[1]
MASTER BED 2	PTD GWB	PTD GWB	WD	CPT	
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
ENTRY LEVEL			•		
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MASTER BEDROOM 1	PTD GWB	PTD GWB	WD	CPT	
MASTER CLOSET	PTD GWB	PTD GWB	WD	CPT	
MASTER BATH	PTD GWB	PTD GWB	WD/T	Т	[1]
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STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
UPPER LEVEL			1		
KITCHEN/ DINING	PTD GWB	PTD GWB	WD	ENG WD	
LIVING	PTD GWB	PTD GWB	WD	ENG WD	
POWDER ROOM	PTD GWB	PTD GWB	WD/T	Т	[1]
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TERRACE	DEFS	WD/MTL	N/A	WD	[2]

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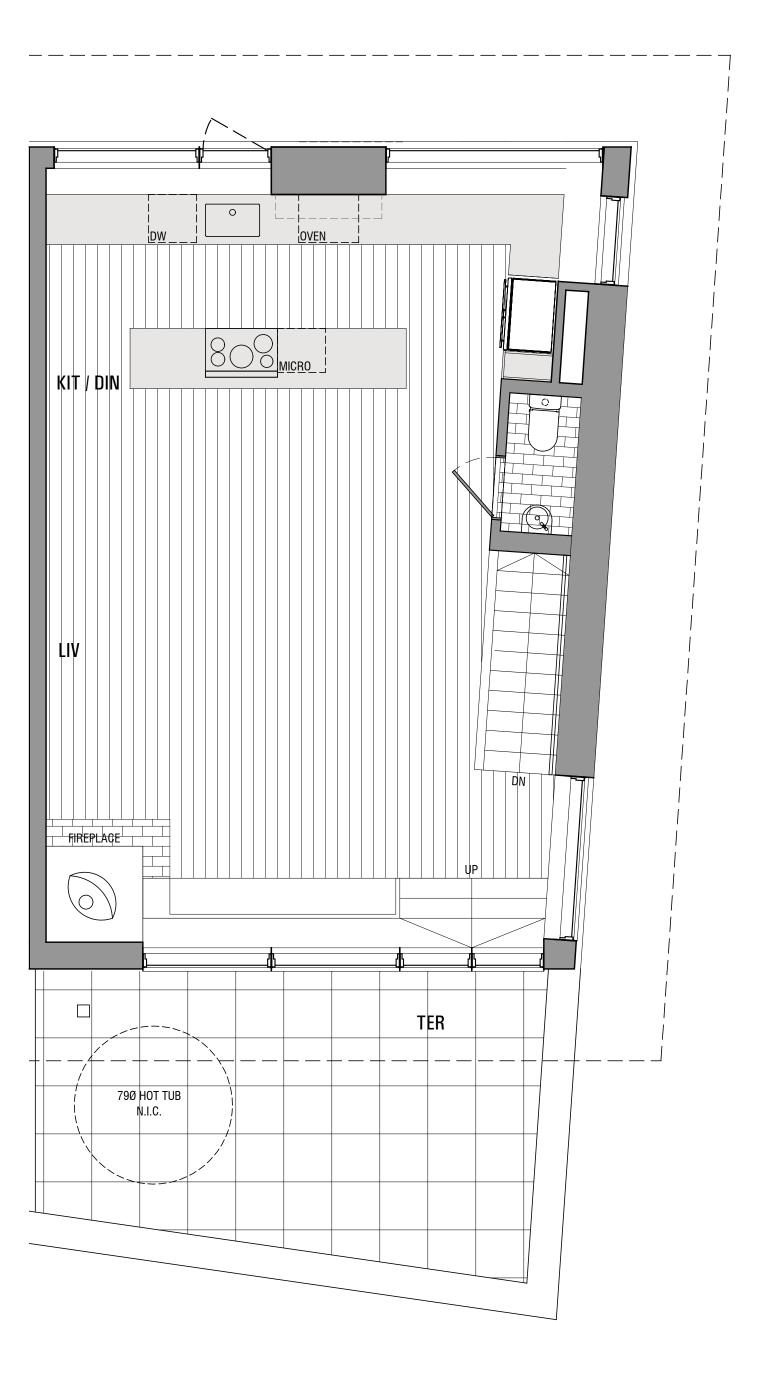


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A9.25
LOT 133 ENTRY AND
LOWER LEVEL FINISH
& FURNITURE PLANS

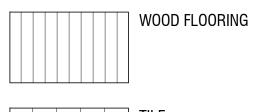
1/4" = 1'-0"

PERMIT SET phase / rev



MATERIALS LEGEND

GENERAL NOTE: Refer to specifications sheet a0.20 - a0.21 for additional material information and installation requirements.



CARPET

WOOD DECKING

FINISH SCHEDULE

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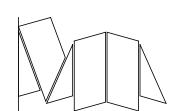
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ROOM NAME	CEILINGS	WALLS	BASE	FL00R	REMARKS
LOWER LEVEL	•	'	!	<u>'</u>	1
HALLWAY	PTD GWB	PTD GWB	WD	ENG WD	
UTILITY ROOM	PTD GWB	PTD GWB	RB	CONC	[3]
BATH	PTD GWB	PTD GWB	WD/T	Т	[1]
BEDROOM	PTD GWB	PTD GWB	WD	CPT	
MASTER BATH 2	PTD GWB	PTD GWB	WD/T	Т	[1]
MASTER BED 2	PTD GWB	PTD GWB	WD	CPT	
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
ENTRY LEVEL			•		
GARAGE	PTD GWB	PTD GWB	RB	CONC	[3]
ENTRY/ HALLWAY	PTD GWB	PTD GWB	WD	T/ENG WD	
MASTER BEDROOM 1	PTD GWB	PTD GWB	WD	CPT	
MASTER CLOSET	PTD GWB	PTD GWB	WD	CPT	
MASTER BATH	PTD GWB	PTD GWB	WD/T	Т	[1]
BUNK	PTD GWB	PTD GWB	WD	ENG WD	
STAIRS	PTD GWB	PTD GWB	WD	WD	[2]
UPPER LEVEL					
KITCHEN/ DINING	PTD GWB	PTD GWB	WD	ENG WD	
LIVING	PTD GWB	PTD GWB	WD	ENG WD	
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A9.26
LOT 133 UPPER
LEVEL FINISH &
FURNITURE PLAN

1/4" = 1'-0"

PERMIT SET phase / rev

GENERAL STRUCTURAL NOTES:

- A. ALL CONSTRUCTION AND TESTING IS TO BE IN STRICT ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AND ALL RELATED PUBLICATIONS OF THE I.C.C.
- B. ALL ICC REPORTS REFERENCED IN THIS REPORT ARE AVAILABLE FREE OF CHARGE AT HTTP://WWW.ICC-ES.ORG. C. THE STRUCTURAL DRAWINGS SHOW THE COMPLETED PROJECT. THEY DO NOT
- INCLUDE COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY ON AND AROUND THE JOBSITE DURING CONSTRUCTION. D. STRUCTURAL NOTES SHALL BE USED ALONG WITH THE SPECIFICATIONS AND DRAWINGS. WHERE THE STRUCTURAL NOTES, STRUCTURAL AND ARCHITECTURAL
- DRAWINGS OR SPECIFICATIONS DISAGREE, THE CONTRACTOR MAY REQUEST A CLARIFICATION DURING THE BIDDING PERIOD, OTHERWISE THE MORE STRINGENT REQUIREMENTS SHALL CONTROL (AS DETERMINED BY THIS ENGINEER). PROVIDE ALL TEMPORARY BRACING, SHORING, GUYING OR OTHER MEANS TO AVOID
- EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING F. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH THE APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS
- PRIOR TO CONSTRUCTION. G. VERIFY AND COORDINATE ALL DIMENSIONS AND CONDITIONS PRIOR TO STARTING WORK. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR INCONSISTENCIES.
- STRUCTURAL DETAILS: DETAILS ARE APPLICABLE WHERE INDICATED BY SECTION CUT, BY NOTE OR BY DETAIL TITLE. PROVIDE SIMILAR DETAILS AT SIMILAR CONDITIONS UNLESS NOTED OTHERWISE. THE CONTRACTOR MAY REQUEST A CLARIFICATION DURING THE BIDDING PERIOD OTHERWISE THE MORE STRINGENT REQUIREMENTS SHALL CONTROL (AS DETERMINED BY THIS ENGINEER)
- I. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SLAB ELEVATIONS AND SLOPES NOT
- J. ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL
- BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN UTAH. K. THE COST OF DESIGN WORK RESULTING FROM ERRORS OR OMISSIONS IN CONSTRUCTION SHALL BE BORNE BY THE CONTRACTOR.
- A. <u>BUILDING CODE</u>: WEBER COUNTY, UTAH, 2015 I.B.C.
- B. <u>LOADINGS:</u>
 - INTERIOR FLOOR DEAD LOAD FINISH ALLOWANCE = 12 PSF MAX. GROUND SNOW LOAD = 262.5 PSF w/ DRIFTS PER ASCE 7-10
 - ROOF DESIGN SNOW LOAD = 259 PSF 4. TYPICAL FLOOR & STAIR LIVE LOAD = 40 PSF (RESIDENTIAL)
 - 5. EXTERIOR TERRACE LIVE LOAD = 60 PSF
 - 6. PROJECT RISK CATEGORY = II
 - 7. WIND LOADS:
 - a) ULTIMATE VELOCITY = 115 MPH b) ENCLOSED
 - c) EXPOSURE = C
 - 8. <u>SEISMIC LOADS:</u>
 - a) SOIL SITE CLASS = C
 - b) Ss = 0.811, SDS = .635c) S1 = 0.269, SD1 = .334
 - d) SEISMIC DESIGN CATEGORY = D
 - e) R = 6.5, Cd=4, OMEGA = 3 (WOOD SHEAR WALLS) f) RHO = 1.3
 - g) le = 1.00
 - h) Cs = 0.0977 ULT, 0.0684 ASD

C. SOIL BEARING ALLOWABLE

- 1. PER SOILS INVESTIGATION REPORT BY "INTERMOUNTAIN GEOENVIRONMENTAL SERVICES, INC.", PROJECT NO. 01628-022, REFER TO THIS REPORT FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
- 2. ALL FOOTINGS ARE TO BE FOUNDED EITHER ON ENTIRELY ON COMPETENT NATIVE SOILS OR ENTIRELY ON COMPACTED FILLS AS DESCRIBED IN THE GEOTECHNICAL REPORT. MIXING OF BEARING MATERIALS IS NOT ALLOWED. THE SUITABLE NATIVE SOILS ARE EXPECTED TO OCCUR AT BETWEEN 2 AND 3
- FEET BELOW THE ORIGINAL PRE-ROAD GRADE ON THE SITE. 3. ALLOWABLE NET BEARING PRESSURE ON THESE SOILS IS 2400 PSF AS INDICATED IN THE GEOTECHNICAL REPORT. ALL FOOTING BEARING MATERIALS, WIDTHS AND DEPTHS ARE TO BE VERIFIED BY THE GEOTECHNICAL SPECIAL INSPECTOR.
- 4. IN ADDITION TO THE ABOVE REQUIREMENTS, ALL FOOTINGS EXPOSED TO THE EXTERIOR ARE TO BE FOUNDED AT NOT LESS THAN 3'-6" BELOW FINAL EXTERIOR GRADE FOR FROST COVERAGE. FOOTING ELEVATIONS INDICATED ARE BASED ON THE ASSUMED FINAL GRADES AT THE PERIMETER OF THE BUILDING. CONTRACTOR SHALL VERIFY THAT SUFFICIENT COVERAGE IS PROVIDED AT ALL FOUNDATIONS AND SHALL ADJUST FOOTING ELEVATIONS IF REQUIRED. ANY CHANGE IN FOOTING ELEVATION OF MORE THAN 8" MUST RECEIVE PRIOR APPROVAL FROM THIS ENGINEER.
- 5. ALL FOOTINGS ARE TO BE FOUNDED AT THE LOWER OF THE ABOVE TWO PARAGRAPH REQUIREMENTS, BUT AT DEPTHS NOT LESS THAN INDICATED ON THE STRUCTURAL DRAWINGS. IF ANY FOOTING NEEDS TO BE LOWERED BELOW THE DEPTHS INDICATED ON THE STRUCTURAL DRAWINGS, NOTIFY THIS ENGINEER FOR FURTHER RECOMMENDATIONS PRIOR TO PROCEEDING WITH ANY FOUNDATION INSTALLATION.
- 6. ALL SLABS ON GRADE ARE TO BEAR ON THE ASSEMBLIES NOTED ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS AND ON PREPARED SUBGRADE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.

III. MATERIALS AND EXECUTION:

A. CONCRETE:

- 1. ALL CONCRETE CONSTRUCTION SHALL COMPLY WITH ACI 301, LATEST
- 2. CONCRETE MATERIAL PROPERTIES: HIGH-RANGE WATER REDUCERS ARE NOT PERMITTED IN ANY CONCRETE USED IN FLATWORK (SLABS ON GRADE, TOPPING SLABS, ETC.). 28-DAY COMPRESSIVE STRENGTHS ARE TO BE AS FOLLOWS.

3000 PSI.

- a) SPREAD FOOTINGS b) SLABS ON GRADE: c) CONCRETE WALLS:
- 4000 PSI. 4000 PSI.

APPROVAL BY THE STRUCTURAL ENGINEER).

- 4. SLUMP: 4" PLUS OR MINUS 1" FOR ALL CONCRETE UNLESS HISTORICAL DATA
- 3. AGGREGATE SIZE: 1" MAXIMUM FOR FOOTINGS, 3/4" MAXIMUM FOR ALL

SHOWS ACCEPTABLE PERFORMANCE AT A DIFFERENT SLUMP (SUBJECT TO

5. CAST IN PLACE CONCRETE:

- a) SPACING OF CONSTRUCTION JOINTS OR CONTROL JOINTS IN WALLS EXPOSED TO VIEW SHALL NOT EXCEED 40 FEET UNLESS SPECIFICALLY
- NOTED OTHERWISE ON THE DRAWINGS. b) PROVIDE EXTRA REINFORCING AROUND ALL OPENINGS EXCEEDING 24 INCHES SQUARE OR ROUND IN ALL SLABS AND WALLS EQUAL TO TWO #5 BARS ON FOUR SIDES (ONE BAR EACH FACE) AND EXTEND TWO FEET
- c) COORDINATE CHAMFER SIZE ON ALL EXPOSED CORNERS OF CONCRETE WITH THE ARCHITECT. OMIT CHAMFER WHERE INDICATED ON THE ARCHITECTURAL DRAWINGS OR IN THE SPECIFICATIONS.
- d) PROVIDE CLASS B LAP SPLICES FOR ALL REINFORCING UNLESS NOTED e) PROVIDE ISOLATION JOINTS AROUND ALL COLUMNS AT ALL SLAB ON
- GRADE AREAS. f) PROVIDE CORNER BARS AT ALL WALL CORNER AND TEE CONDITIONS
- WITH CLASS B LAPS PER ACI. g) FOLLOW ACI 306R REQUIREMENTS FOR COLD WEATHER CONCRETING AND 305R REQUIREMENTS FOR HOT WEATHER CONCRETING AS
- h) DO NOT BACKFILL AGAINST RETAINING WALLS UNTIL ALL SLAB-ON-GRADE, FOOTING AND WALL CONCRETE HAS REACHED FULL DESIGN STRENGTH. SEE PLANS FOR ADDITIONAL REQUIREMENTS.
- SLAB ON GRADE JOINTING: ALL SLABS ON GRADE ARE TO BE JOINTED at no more than 10'-0" ea. Way using joints as per detail 1/s0.11. IN ADDITION, NO SECTION OF CONCRETE SHALL HAVE AN ASPECT RATIO OF GREATER THAN 1 1/2:1. PROVIDE (2) #4 x 4'-0" MID-HEIGHT SLAB BARS ADJACENT TO ALL DISCONTINUOUS JOINT LOCATIONS, AND AT ANY WALL OR PILASTER CORNERS NOT INTERSECTED BY JOINTS. SUBMIT COMPLETE JOINT LAYOUT PLAN TO THE ARCHITECT FOR PRIOR REVIEW.

6. CONCRETE TESTING REQUIREMENTS:

- a) ALL CONCRETE MATERIALS SHALL BE TESTED IN ACCORDANCE WITH THE APPROPRIATE STANDARDS AND CRITERIA FOR THE MATERIAL IN CHAPTER 3 OF ACI 301.
- b) OBTAIN AT LEAST ONE COMPOSITE SAMPLE FOR EACH 100 CUBIC YARDS, OR FRACTION THEREOF, OF EACH CONCRETE MIXTURE PLACED c) CONDUCT STRENGTH TESTS OF CONCRETE DURING CONSTRUCTION IN
- ACCORDANCE WITH THE FOLLOWING PROCEDURES: (1) MOLD AND CURE THREE CYLINDERS FROM EACH SAMPLE IN ACCORDANCE WITH ASTM C 31/C 31M. RECORD ANY DEVIATIONS
- from the astm requirements in the test report. (2) DETERMINE SLUMP OF EACH COMPOSITE SAMPLE TAKEN.
- (3) DETERMINE TEMPERATURE OF EACH COMPOSITE SAMPLE TAKEN. (4) TEST CYLINDERS IN ACCORDANCE WITH ASTM C 39. TEST ONE
- SPECIMEN AT 7 DAYS FOR INFORMATION, AND TWO SPECIMENS AT 28 DAYS FOR ACCEPTANCE, UNLESS OTHERWISE SPECIFIED. THE COMPRESSIVE STRENGTH TEST RESULTS FOR ACCEPTANCE SHALL BE THE AVERAGE OF THE COMPRESSIVE STRENGTHS FROM THE TWO SPECIMENS TESTED AT 28 DAYS.
- (5) SUBMIT TEST REPORTS TO THIS ENGINEER AFTER EACH COMPRESSIVE STRENGTH TEST. REPORT SHALL INCLUDE SLUMP AND TEMPERATURE READINGS TAKEN AT TIME OF SAMPLING.
- 7. BASEPLATE GROUT: GROUT FOR USE UNDER BASE PLATES AND BEARING PLATES IS TO BE HIGH-STRENGTH, NON-METALLIC, NON-SHRINK GROUT. MINIMUM COMPRESSIVE STRENGTH AT 3 DAYS IS TO BE 3000 PSI, GROUT MAY BE INSTALLED EITHER AS A DRYPACK OR FLOWABLE MIXTURE, BUT SHALL BE DRYPACKED AT ALL EXPOSED CONDITIONS. EDGES OF GROUT AT EXPOSED CONDITIONS SHALL BE CUT AT A 15 DEGREE ANGLE FROM VERTICAL SUCH THAT THE GROUT IS THE SAME WIDTH AT THE STEEL PLATE AT THE TOP AND WIDER AT THE BOTTOM.

8. <u>REINFORCING STEEL</u>

- a) ALL BARS #4 AND LARGER TO BE ASTM A 615, GRADE 60. ALL #2 AND #3 BARS TO BE ASTM A 615, GRADE 40. DETAILED, FABRICATED AND
- ERECTED IN ACCORDANCE WITH ACI-301, LATEST ADOPTION. b) WELDED WIRE FABRIC TO BE IN ACCORDANCE WITH ASTM A 185. c) ALL BARS INDICATED ON THE PLANS TO BE WELDED SHALL CONFORM TO
- ASTM A 706 (GRADE 60).
- d) MINIMUM CONCRETE COVER FOR REINFORCING BARS TO FACE OF BARS INCLUDING TIES:
- (1) CONCRETE CAST AGAINST AND PERMANENTLY
- EXPOSED TO EARTH:
- (2) CONCRETE EXPOSED TO EARTH OR WEATHER:
- #6 BARS AND LARGER: 2" #5 BARS AND SMALLER: 1-1/2"

B. STRUCTURAL AND MISCELLANEOUS STEEL

MATERIAL PROPERTIES

- a) TO BE ASTM A 36 UNLESS NOTED OTHERWISE.
- b) ALL WIDE-FLANGE SHAPES ARE TO BE ASTM A992 GRADE 50. c) PIPE IS TO BE ASTM A 501, Fy = 36 KSI OR ASTM A 53, TYPE E OR TYPE S,
- GRADE B, Fy = 35 KSI. d) SQUARE OR RECTANGULAR TUBES ARE TO BE ASTM A 500, GRADE B, Fy =
- e) ALL STEEL IS TO BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS, LATEST ADOPTION.

- a) FOR STRUCTURAL STEEL TO BE IN ACCORDANCE WITH A.W.S.
- REQUIREMENTS FOR E70XX ELECTRODES. b) ALL FILLET WELDS UP TO 5/16" SHALL BE MADE AS SINGLE PASS
- WELDS. ALL MULTI-PASS WELDS REQUIRE VISUAL INSPECTION FOR EACH WELD PASS PRIOR TO INSTALLING SUBSEQUENT PASSES. MULTI-PASS WELDS THAT HAVE NOT BEEN PROPERLY INSPECTED WILL BE REJECTED.
- c) ALL WELD BACKER BARS AND/OR ERECTION AIDS ARE TO BE REMOVED AT CONDITIONS THAT ARE EXPOSED TO VIEW. BACKER BARS ARE TO BE REMOVED WHEN AWS WELD TYPE REQUIRES BACK-GOUGING. EXPOSED SURFACES SHALL BE GROUND SMOOTH WITH ANY HOLES OR GOUGES FILLED AND GROUND SMOOTH.

3. BOLTS AND OTHER FASTENERS:

- a) ALL BOLTS AT STEEL TO STEEL CONNECTIONS TO BE ASTM A 325-N UNLESS NOTED OTHERWISE. ALL BOLTS ARE TO BE TIGHTENED TO A SNUG-TIGHT CONDITION UNLESS NOTED OTHERWISE.
- b) ALL BOLTS AT WOOD TO STEEL OR WOOD TO WOOD CONNECTIONS TO BE ASTM A 307 UNLESS NOTED OTHERWISE.
- c) TYPICAL ANCHOR RODS SHALL BE ASTM F1554, GRADE 36, U.N.O d) ADHESIVE ANCHORS FOR ATTACHMENT TO CONCRETE ARE TO BE ASTM F1554, GRADE 36, THREADED RODS WITH SIMPSON "SET-XP" ADHESIVE, INSTALLED IN ACCORDANCE WITH ICC ESR-2508. DRILLED HOLE DIMENSIONS ARE TO BE AS FOLLOWS IN EXISTING CONCRETE UNLESS NOTED OTHERWISE. HOLE DEPTH IS MEASURED FROM THE OUTSIDE FACE OF THE CONCRETE. ALL CONCRETE SHALL BE AT ITS SPECIFIED DESIGN STRENGTH AT THE TIME OF INSTALLATION.

ROD DIA./BAR SIZE DRILL BIT DIA. HOLE DEPTH 1/2" 5/8" 3/4" 5/8" 3/4"

4. <u>HEADED STUD SHEAR CONNECTORS:</u> TO BE ASTM A 108. ALL HEADED STUDS ARE TO BE BY "NELSON STUD WELDING" OR APPROVED EQUAL AND ARE TO BE FLASH WELDED TO THE SUPPORTING STEEL USING AN ELECTRIC ARC WELDING PROCESS.

- 1. DIMENSIONAL LUMBER: ALL TO BE GRADE STAMPED PER W.C.L.B. RULES.
- a) ALL STUDS, JOISTS, BEAMS, PLATES, HEADERS AND OTHER LUMBER TO BE D.FIR/LARCH #2 UNLESS OTHERWISE NOTED.
- b) 4x, 6x AND 8x POSTS TO BE D.FIR/LARCH NO.1 c) ALL WOOD PLATES IN CONTACT WITH STEM WALLS OR SLABS ON GRADE ARE TO BE PRESSURE TREATED.
- 2. RIMBOARD: TO BE 1-1/2" THICK LSL OR LVL RIMBOARD BY REDBUILT OR OTHER PRE-APPROVED EQUAL WITH DEPTH AS INDICATED. USE 2.0E REDLAM LVL WHERE 3-1/2" THICKNESS IS INDICATED.

3. GLU-LAMS:

- a) SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI/AITC A190.1,
- CURRENT EDITION. b) ALL MEMBERS SHALL BE GRADE-STAMPED WITH AN AITC QUALITY MARK, AND SHALL MEET THE REQUIREMENTS OF D.FIR/LARCH COMBINATION 24F-V8 FOR MULTI-SPANS AND CANTILEVERED MEMBERS, AND D.FIR/LARCH COMBINATION 24F-V4 FOR SINGLE SPAN MEMBERS.
- c) ALL GLULAM MEMBERS SHALL BE CONSTRUCTED WITH EXTERIOR-GRADE ADHESIVES.

4. <u>SHEATHING:</u>

- a) ALL SHEATHING TO BE APA RATED PLYWOOD APPROPRIATE TO THE SPAN LENGTHS AND DIRECTIONS INDICATED ON THE DRAWINGS. SHEATHING LAY-UP TO BE WITH FACE GRAIN OR STRONG DIRECTION PERPENDICULAR TO SUPPORTS EXCEPT WHERE SPECIFICALLY SHOWN OTHERWISE. ALL SINGLE SPAN CONDITIONS ARE TO HAVE 2X4
- BLOCKING ACROSS THE SPAN AT 24" O.C. MAX. b) ROOF SHEATHING TO BE 3/4" PERFORMANCE CATEGORY, APA RATED SHEATHING, EXPOSURE 1, WITH A SPAN RATING OF 48/24. NAIL WITH 10d NAILS AT 6" O.C. AT ALL EDGE SUPPORTS AND WITH 10d NAILS AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE.
- c) FLOOR SHEATHING AT TERRACES TO BE 1-1/8" PERFORMANCE CATEGORY, T&G, APA RATED 48" O.C., STURDI-I-FLOOR SHEATHING, EXPOSURE 1. NAIL WITH 10d NAILS AT 6" O.C. AT ALL EDGE SUPPORTS AND WITH 10d NAILS AT 10" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE.
- BELOW. d) ALL ROOF AND TERRACE FLOOR SHEATHING WITHIN 4 FEET OF THE DEMISING WALLS IS TO BE FIRE-RETARDENT-TREATED SHEATHING. COORDINATE EXACT REQUIREMENTS WITH THE ARCHITECT. RUNNING BOND LAYUP OF SHEATHING IS TO BE MAINTAINED AS DESCRIBED BELOW WITH FIRE-RETARDENT-TREATED SHEATHING EXTENDED BEYOND THE 4

d) ALL OTHER FLOOR SHEATHING TO BE WARMBOARD AS DESCRIBED

- FOOT MINIMUM REQUIREMENT WHERE REQUIRED. e) ALL ROOF AND FLOOR SHEATHING IS TO BE LAID UP IN RUNNING BOND WITH STRENGTH AXIS PERPENDICULAR TO SUPPORTS. ROTATE PANEL
- DIRECTION AS REQUIRED TO REFLECT FRAMING DIRECTION CHANGES. f) IN ADDITION TO THE NAILING REQUIREMENTS INDICATED, ALL FLOOR SHEATHING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "APA GLUED FLOOR SYSTEM" AS DESCRIBED IN APA PUBLICATION E30, "ENGINEERED WOOD CONSTRUCTION GUIDE" AVAILABLE AT http://www.apawood.org/. ALL PANEL EDGES AND PANEL CONTACT

WITH SUPPORTS SHALL BE GLUED AS DESCRIBED.

g) FOR ALL WALLS OR PORTIONS OF WALLS NOTED TO BE SHEARWALLS, TO BE 1/2" OR 5/8" PERFORMANCE CATEGORY (THICKNESS AS INDICATED), APA RATED SHEATHING WITH 32/16 SPAN RATING, EXPOSURE 1, INSTALLED ON ONE OR TWO SIDES OF THE WALL AS INDICATED. FULLY BLOCK AND NAIL ALL PANEL EDGES. NAIL AS INDICATED IN THE SHEAR WALL SCHEDULE.

5. WARMBOARD SHEATHING:

- a) TO BE 1-1/8" THICK WARMBOARD-S RADIANT FLOOR HEATING PANELS BY WARMBOARD INC. MANUFACTURED AND INSTALLED IN ACCORDANCE WITH ICC ESR-1421.
- b) ALL SHEATHING IS TO BE LAID UP IN RUNNING BOND WITH STRENGTH AXIS PERPENDICULAR TO SUPPORTS. ROTATE PANEL DIRECTION AS REQUIRED TO REFLECT FRAMING DIRECTION CHANGES.
- c) AT ALL SHEATHING EAST OF GRID C, BLOCK AND NAIL ALL PANEL EDGES WITH 3" NOMINAL BLOCKING. NAIL WITH 10d NAILS AT 6" O.C. AT ALL EDGE SUPPORTS AND WITH 10d NAILS AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE.
- d) WHERE PANEL EDGES ABUT ON I-JOISTS AND OTHER FRAMING, STAGGER NAILS ON OPPOSING PANEL EDGES AND MAINTAIN MINIMUM 3/8 EDGE DISTANCE TO PANEL EDGE AND TO EDGE OF JOIST CHORD BELOW

SHEATHING.

e) IN ADDITION TO THE NAILING REQUIREMENTS INDICATED, ALL WARMBOARD FLOOR SHEATHING CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE "APA GLUED FLOOR SYSTEM" AS DESCRIBED IN APA PUBLICATION E30, "ENGINEERED WOOD CONSTRUCTION GUIDE" AVAILABLE AT http://www.apawood.org/. ALL PANEL EDGES AND PANEL CONTACT WITH SUPPORTS SHALL BE GLUED AS DESCRIBED.

6. PLYWOOD WEB I JOISTS:

- a) TO BE DETAILED AND FABRICATED BY REDBUILT OR PRE-APPROVED EQUAL, AND ARE TO HAVE THE APPROVAL OF ICC.
- b) JOISTS HAVE BEEN SIZED BY THIS ENGINEER AND MANUFACTURER CALCULATIONS ARE NOT REQUIRED IF THE SPECIFIC PRODUCTS INDICATED ARE SUPPLIED.
- c) IF AN ALTERNATE MANUFACTURER'S PRODUCT IS TO BE SUBMITTED FOR REVIEW, FURNISH MANUFACTURER'S PUBLISHED TECHNICAL INFO, AND A TABLE THAT SHOWS THAT THE PROPOSED PRODUCT VALUES FOR EACH JOIST TYPE MEET OR EXCEED THOSE FOR THE REDBUILT PRODUCT SPECIFIED. THE TABLE SHALL INCLUDE THE FOLLOWING ITEMS FOR EACH REDBUILT AND PROPOSED ALTERNATE JOIST TYPE.
- (1) UNFACTORED RESISTING MOMENT
- (2) UNFACOTRED RESISTING SHEAR (3) MOMENT OF INERTIA OF BARE JOIST PRODUCT.

e) DOUBLE JOISTS ARE TO BE CONNECTED TOGETHER PER

FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION.

- SUBMITTALS THAT DO NOT INCLUDE THE TABLE AS DESCRIBED WILL BE
- d) LUMBER USED IN THE JOIST TOP FLANGES IS TO BE OF A WOOD SPECIES HAVING A SPECIFIC GRAVITY OF NOT LESS THAN 0.5.
- MANUFACTURER'S TYPICAL DETAIL. INCLUDE THIS DETAIL ON THE SHOP

SUBMITTALS: SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT

7. PREFABRICATED WOOD ROOF TRUSSES:

a) TO BE "GANG-NAIL" OR "ALPINE" OR APPROVED EQUAL DESIGNED, DETAILED AND FABRICATED IN ACCORDANCE WITH THE NATIONAL FOREST PRODUCTS ASSOCIATION "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", AND THE TRUSS PLATE INSTITUTE "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION", LATEST ADOPTIONS.

b) <u>DESIGN REQUIREMENTS:</u>

- (1) TRUSS TOP CHORDS ARE TO BE DESIGNED FOR THE SNOW LOADS INDICATED ABOVE AND FOR A SUPERIMPOSED DEAD LOAD OF NOT LESS THAN 12 PSF.
- (2) TRUSS BOTTOM CHORDS ARE TO BE DESIGNED FOR A SUPERIMPOSED DEAD LOAD OF NOT LESS THAN 8 PSF.
- (3) THE MAXIMUM ALLOWABLE STRESS INCREASE FOR DURATION OF LOAD IS TO BE 15%. (4) TRUSS DEFLECTION TO BE LIMITED TO L/180 FOR TOTAL LOAD AND
- L/240 FOR LIVE LOAD. (5) TRUSS DEPTH TO BE 24" WITH BEARING CONDITIONS AS SHOWN
- EXCEPT WHERE NOTED OTHERWISE. (6) PROVIDE CONTINUOUS TRUSS BLOCKING PANELS AS DETAILED WITH HORIZONTAL SEISMIC LOAD TRANSFER CAPACITY NOTED ON THE DETAILS.

c) <u>SUBMITTALS:</u>

- (1) COMPLETE DESIGN CALCULATIONS SHALL BE FURNISHED TO THE ENGINEER FOR EACH TRUSS. CALCULATIONS MUST BE PREPARED AND SEALED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE
- OF UTAH. UNSEALED SUBMITTALS WILL BE REJECTED. (2) SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION. (3) THE TRUSS MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION
- THAT THE TRUSS QUALITY IS IN CONFORMANCE WITH THE QUALITY CRITERIA DESCRIBED IN ANSI/TPI-1, LATEST ADOPTION, PUBLISHED BY THE TRUSS PLATE INSTITUTE. (4) THE TRUSS MANUFACTURER SHALL HAVE A QUALITY ASSURANCE

COMPLIANCE. d) GENERAL:

(1) ALL TRUSSES AND RELATED BRACING SHALL BE SIZED AND DETAILED TO FIT THE DIMENSIONS AND LOADS INDICATED ON THE PLANS. (2) LUMBER USED FOR CHORDS AND WEBS SHALL HAVE A MAXIMUM

PROGRAM IN ACCORDANCE WITH CHAPTER 3 OF ANSI/TPI-1,

LATEST EDITION, AND PROVIDE WRITTEN CERTIFICATION OF

- MOISTURE CONTENT BELOW 19% AT THE TIME OF FABRICATION. (3) LUMBER USED FOR CHORDS AND WEBS THAT ARE TO RECEIVE PLYWOOD SHEATHING ARE TO BE OF WOOD SPECIES HAVING A
- SPECIFIC GRAVITY OF NOT LESS THAN 0.5. (4) ALL TRUSS MEMBERS SHALL MEET OR EXCEED VISUAL REQUIREMENTS FOR NO. 2 GRADE. NO WANE SHALL BE PERMITTED IN THE CONNECTION AREA.
- (5) DESIGN LATERAL RESISTANCE VALUES FOR TRUSS PLATES AND METAL WEBS SHALL BE 80% OF TPI ALLOWABLE LOAD VALUES. (6) THE HANKINSON FORMULA OR STRAIGHT LINE INTERPOLATION

ACCORDANCE WITH TRUSS PLATE INSTITUTE RECOMMENDATIONS.

- SHALL BE USED TO DETERMINE LATERAL RESISTANCE VALUES FOR PLATE TO WOOD GRAIN ANGLES BETWEEN 0 AND 90 DEGREES. (7) TRUSS PLATES SHALL BE SIZED SO THAT THEY CAN BE CENTERED BOTH HORIZONTALLY AND VERTICALLY ON THE JOINT UNLESS THE CHORD
- DEPTH OR THE TRUSS GEOMETRY PROHIBITS SUCH PLACEMENT. (8) EVERY TRUSS PLATE SHALL BE FULLY EMBEDDED INTO THE UNDERLYING WOOD ACROSS THE ENTIRE CONTACT AREA.
- (9) ALL TRUSSES SHALL BE ERECTED AND BRACED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND IN

8. WOOD NAILING SCHEDULE (U.N.O. ON PLANS):

- a) JOIST TO SILL OR GIRDER, TOENAIL 3-8d
- b) SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL 2-16d
- c) TOP PLATE TO STUD, END NAIL 2-16d d) 2x STUD TO PLATE, TOENAIL 4-8d or FACE NAIL 2-16d
- e) 3x STUD TO 3x PLATE, TOENAIL 4-10d OR FACE NAIL 3-20d f) DOUBLE STUDS, FACE NAIL 16d @ 24" O.C.

- g) DOUBLED TOP PLATES, FACE NAIL 16d @ 16" O.C.
- h) TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL 2-16d CONTINUOUS HEADER TO STUD, TOENAIL 4-8d
- BUILT UP CORNER STUDS, 16d @ 24" O.C.
- k) BUILT UP GIRDERS AND BEAMS, 20d @ 32"O.C. AT TOP AND BOTTOM AND STAGGERED 2-20d AT EACH END & SPLICE
- I) RIMBOARD TO I-JOIST, 10d FACE NAIL TO T&B JOIST CHORD

9. LAG SCREW INSTALLATION:

- a) ALL LAG SCREWS REQUIRE PRE-DRILLING OF HOLES. b) LAG SCREWS SHALL BE INSTALLED INTO PROPERLY SIZED LEAD AND CLEARANCE HOLES PER N.F.P.A. "NATIONAL DESIGN SPECIFICATION"
- REQUIREMENTS AS FOLLOWS. c) THE CLEARANCE HOLE FOR THE SHANK SHALL HAVE THE SAME DIAMETER AS THE SHANK AND THE SAME DEPTH OF PENETRATION AS THE LENGTH
- OF UNTHREADED SHANK. d) THE LEAD HOLE FOR THE THREADED PORTION SHALL HAVE A DIAMETER
- EQUAL TO 40 TO 70 PERCENT OF THE SHANK DIAMETER AND A LENGTH EQUAL TO AT LEAST THE LENGTH OF THE THREADED PORTION. e) THE THREADED PORTION OF THE SCREW SHALL BE INSERTED IN ITS LEAD
 - f) SOAP OR OTHER LUBRICANT SHALL BE USED ON THE SCREWS OR IN THE LEAD HOLE TO FACILITATE INSERTION AND PREVENT DAMAGE TO THE

10. WOOD CONNECTORS

a) UNLESS NOTED OTHERWISE, ALL NAILS ARE TO BE COMMON NAILS PER ASTM F1667 WITH ASTM A153 HOT-DIP GALVANIZED FINISH. NAILS IN CONTACT WITH TREATED LUMBER ARE TO BE G185 HOT-DIP GALVANIZED OR STAINLESS STEEL

HOLE BY TURNING WITH A WRENCH, NOT BY DRIVING WITH A HAMMER.

- b) LAG SCREWS SHALL MEET THE MINIMUM REQUIREMENTS OF ASTM A307, LOW-CARBON STEEL EXTERNALLY AND INTERNALLY THREADED
- STANDARD FASTENERS. c) ALL LUMBER CONNECTORS SPECIFIED AS "SIMPSON" TYPE TO BE MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY, INC." OR PRE-APPROVED EQUAL. INSTALL CONNECTORS USING MAXIMUM SIZE AND NUMBER OF FASTENERS PER MANUFACTURER'S LITERATURE UNLESS NOTED OTHERWISE. INSTALL SDS SCREWS PER MANUFACTURER'S RECOMMENDATIONS.

D. SHOP DRAWINGS:

- 1. SHOP DRAWINGS ARE TO BE SUBMITTED FOR ALL STRUCTURAL ITEMS AND AS REQUIRED BY THE SPECIFICATIONS. CONTRACT DRAWINGS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.
- 2. CONTRACTOR SHALL THOROUGHLY REVIEW ALL SHOP DRAWINGS PRIOR TO SUBMITTAL TO THE DESIGN TEAM AND SHALL INCLUDE HIS REVIEW STAMP ON THE SUBMITTAL. ALL INFORMATION NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SHALL BE SO NOTED ON THE SUBMITTAL BY THE CONTRACTOR DURING HIS REVIEW. IF DEFICIENCIES ARE SUBSTANTIAL, THE SUBMITTAL SHALL BE RETURNED TO THE SUBCONTRACTOR FOR REVISIONS PRIOR TO SUBMITTING IT TO THE DESIGN TEAM.
- 3. ANY CHANGE FROM THE CONTRACT DOCUMENTS SHALL BE CLEARLY NOTED BY THE SUBMITTING PARTY WITH CLOUDS AND SPECIFIC REQUEST FOR APPROVAL. ANY CHANGES NOT NOTED AND CLOUDED SHALL BE CONSIDERED AS NOT APPROVED UNLESS SPECIFICALLY NOTED OTHERWISE BY THIS ENGINEER. THE SHOP DRAWING STAMP SHALL NOT BE CONSIDERED TO BE IMPLIED APPROVAL OF ANY CHANGES.
- OMITTED AND/OR SHOWN INCORRECTLY AND NOT NOTED BY THE REVIEWER ARE NOT TO BE CONSIDERED TO BE CHANGES TO THE CONTRACT DOCUMENTS. SHOP DRAWING REVIEW IS INTENDED AS AN AID TO THE CONTRACTOR IN HIS OBTAINING CORRECT SHOP DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL ITEMS ARE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

4. SHOP DRAWINGS SHALL NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS

5. ANY ENGINEERING DESIGN PERFORMED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN THE STATE OF UTAH. COMPLETE DESIGN CALCULATIONS FOR EACH ITEM SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE ENGINEER. THE ADEQUACY AND ACCURACY OF THE DESIGNS AND LAYOUTS PERFORMED BY OTHERS RESTS WITH THE DESIGNING AND/OR SUBMITTING

STRUCTURAL STEEL ERECTOR AND FABRICATOR CERTIFICATION REQUIREMENTS:

- 1. THE STEEL FABRICATOR FOR THIS PROJECT SHALL HAVE AISC BUILDING STANDARD [STD] CERTIFICATION. EVIDENCE OF CERTIFICATION SHALL BE SUBMITTED TO THIS ENGINEER FOR REVIEW, AND APPROVAL SHALL BE OBTAINED PRIOR TO PROCEEDING WITH ANY DETAILING OF STEEL OR
- FABRICATION. 2. THE STEEL ERECTOR FOR THIS PROJECT SHALL HAVE AISC CATEGORY "CSE" CERTIFICATION. AN ALTERNATE CERTIFICATION WITH ANOTHER RECOGNIZED AUTHORITY MAY BE SUBMITTED FOR REVIEW AND APPROVAL ALONG WITH EVIDENCE OF THE SUCCESSFUL COMPLETION OF NOT LESS THAN THREE PROJECTS OF SIMILAR SCOPE IN THE PAST FIVE YEARS. ACCEPTABILITY OF THE ALTERNATE CERTIFICATION AND EXPERIENCE WILL BE DETERMINED BY THIS ENGINEER. NO STEEL ERECTION SHALL PROCEED PRIOR TO RECEIVING APPROVAL.

F. <u>SPECIAL INSPECTION:</u>

- 1. ALL SPECIAL STRUCTURAL INSPECTION SHALL BE PERFORMED IN ACCORDANCE WITH IBC CHAPTER 17 AND AS DESCRIBED IN THE STATEMENT OF SPECIAL INSPECTIONS (SOSI) ON SHEET SO.13. THE PROJECT OWNER OR HIS AGENT SHALL ENGAGE A QUALIFIED INSPECTION AGENCY OR AGENCIES TO PERFORM THE INSPECTIONS THAT ARE LISTED. ALL STRUCTURAL INSPECTORS TO BE ENGAGED SHALL BE COMPETENT AND HAVE ADEQUATE TRAINING OR EXPERIENCE AS REQUIRED BY THE SOSI, AND SHALL BE
- B5.1, OR SHALL BE QUALIFIED UNDER THE PROVISIONS OF AWS D1.1, SECTION 6.1.4. WRITTEN EVIDENCE OF THESE QUALIFICATIONS SHALL BE SUBMITTED TO THIS ENGINEER FOR PRIOR REVIEW AND APPROVAL. 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING AND MONITORING OF ALL SPECIAL INSPECTIONS. REASONABLE ADVANCE NOTICE SHALL BE GIVEN TO THE SPECIAL INSPECTOR, STRUCTURAL SPECIAL INSPECTION COORDINATOR, AND/OR THE INSPECTION AGENCY. NO PERTINENT WORK SHALL PROCEED OR BE COVERED UP BY OTHER WORK UNTIL SPECIAL INSPECTION HAS TAKEN PLACE AND HAS INDICATED

2. STRUCTURAL INSPECTORS OF ALL STRUCTURAL WELDING SHALL BE WELDING

INSPECTORS (WI) OR SENIOR WELDING INSPECTORS (SWI) AS DEFINED IN AWS

COMPLIANCE. COPIES OF ALL WRITTEN SPECIAL INSPECTION REPORTS SHALL

BE PROMPTLY FORWARDED TO THIS ENGINEER BY THE INSPECTING AGENCY.

G. DEFERRED SUBMITTALS: IN ACCORDANCE WITH IBC SECTION 107.3.4.1, THE ALCULATION AND SHOP DRAWING SUBMITTAL FOR THE FOLLOWING LISTED ITEMS SHALL BE DEFERRED UNTIL AFTER ISSUANCE OF THE BUILDING PERMIT BUT PRIOR TO THEIR INSTALLATION. THE SUBMITTAL IS TO BE REVIEWED BY THIS ENGINEER. AFTER THE APPROVAL HAS BEEN PROVIDED BY THIS ENGINEER, THE CONTRACTOR SHALL FORWARD COPIES OF THE APPROVED SUBMITTAL TO WEBER COUNTY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION OF THE ITEM.

PREFABRICATED WOOD ROOF TRUSSES

PRE-APPROVED AS INDICATED.

STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004

Г 602 251 3800 sma project no.

sma project name POWDERCAT

thereto.

16-101

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9250862-2202 MARK A. RUDOW

PLAN REVIEW ACCEPTANCE FOR COMPLIANCE WITH THE APPLICABLE MECHANICAL PLUMBING XELECTRICAL XENERGY ACCESSIBILITY FIRE PLAN REVIEW ACCEPTANCE OF DOCUMEN DES NOT AUTHORIZE CONSTRUCTION TO ROCEED IN VIOLATION OF ANY FEDERAL STATE, OR LOCAL REGULATIONS. MEM WEST COAST CODE CONSULTANTS, IN

NO SCALE

STAGGER SPLICES BY 4'-0" MIN.

SIMPSON "MSTA30" - STRAP - TYP. @ -----

ALL SPLICES

TYPICAL STUD TOP PLATE SPLICE

— € SPLICE

2x STUDS PER PLAN

€ SPLICE —

(2) 2x CONT. TOP PLATE

VERTICAL PIPES AT CONCRETE FOOTING

4" MIN. CLR. BETWEEN

END OF FTG. -

SEE PLAN

SLEEVES

FOOTING THICKNESS VARIES — SEE PLAN ——

& SCHEDULE

CONC. STEM WALL ABOVE WHERE OCCURS — SEE

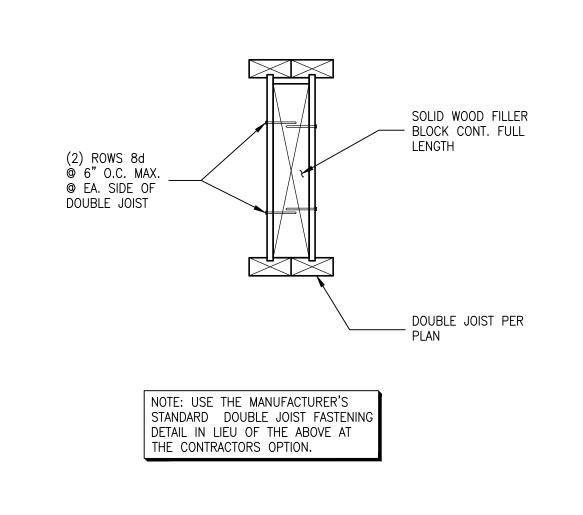
SLEEVE AS REQUIRED TO

CONCRETE FOOTING PER

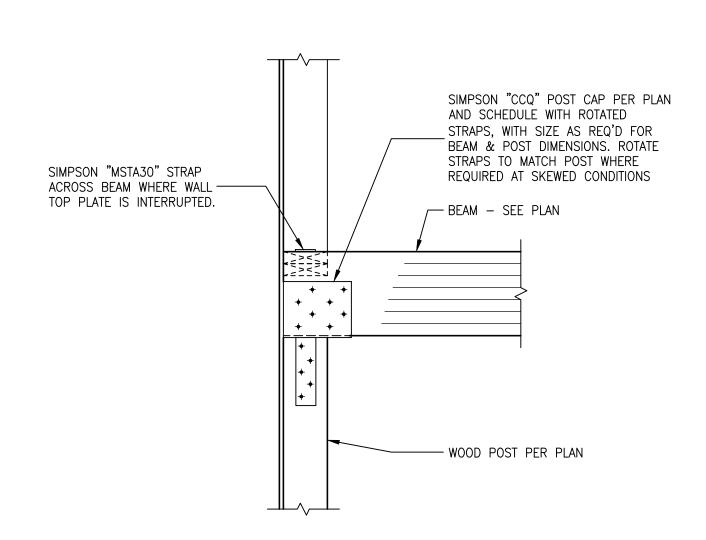
PLAN & SCHEDULE

ALL AROUND PIPE

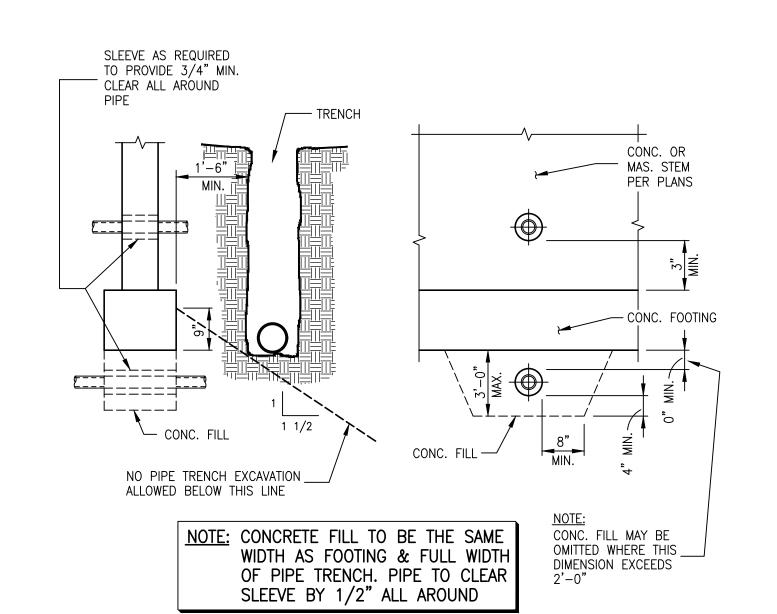
PROVIDE 3/4" MIN. CLEAR —



TYPICAL DOUBLE JOIST CONSTRUCTION



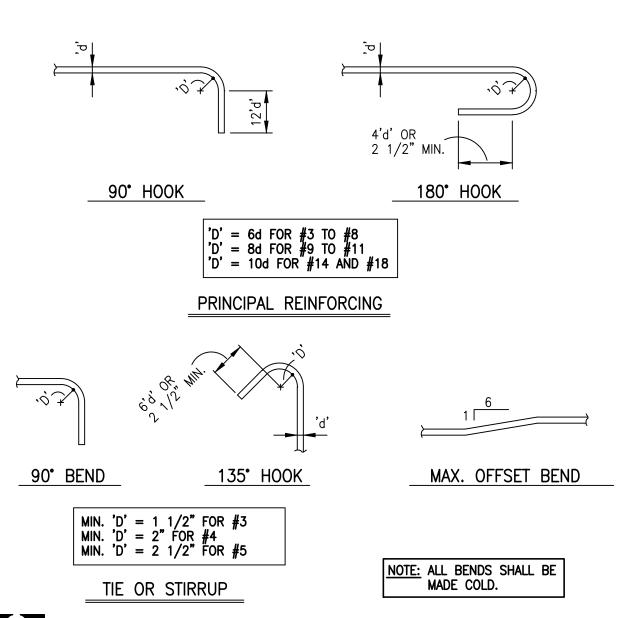
TYPICAL WOOD BEAM CONN. TO WOOD POST



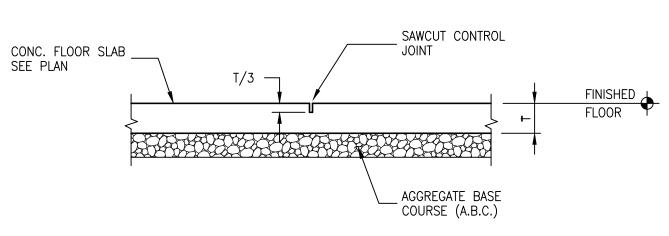
PIPES AT CONCRETE FOOTING

	S	STE	EL	RE	INF	OR	CIN	۱G	LAF	P S	CHE	EDL	JLE	
			CLASS	S B TEI	NSION	SPLIC	E LENG	STHS					CON	MP. BARS
CONC. PSI			500 PS		f'	f'c = 4		: = 4000 PSI		f'c = 5000 PSI		PSI	f'c	: = ALL
BAR		JLAR)P		JLAR)P		JLAR)P	CTD	ENCLOSED
LOCATION		ASS L		ASS		ASS L	i	ASS		ASS L		ASS	STD. Lap	w/spiral Ties
SIZE				≥6db										
#3	16"	16"	21"	21"	16"	16"	18"	18"	16"	16"	16"	16"	12"	12"
#4	22"	22"	28"	28"	19"	19"	24"	24"	17"	17"	22"	22"	15"	12"
# 5	27"	27"	35"	35"	23"	23"	30"	30"	21"	21"	27"	27"	19"	14"
#6	35"	32"	46"	42"	31"	28"	40"	36"	27"	25"	36"	33"	23"	17"
#7	48"	38"	63"	49"	42"	33"	54"	42"	37"	29"	48"	38"	26"	20"
#8	63"	43"	82"	56"	55"	37"	71"	48"	49"	33"	64"	43"	30"	23"
#9	80"	48"	104"	63"	69"	42"	90"	55"	62"	38"	81"	49"	34"	25"
#10	102"	58"	132"	76"	88"	50"	114"	65"	79"	45"	102"	59"	38"	29"
#11	125"	71"	162"	93"	108"	62"	140"	80"	97"	55"	126"	72"	42"	32"
IS 2. UNL CLA LAF 3. CON	CAST I ESS N ASS "B P SPLI(N THE OTED (" TENS CES STRUCT	MEMB OTHERN SION L TURAL	BER BE WISE, L AP SPI ENGINE	LOW T AP SP LICES	HE REPLICES & LAP	INFORC IN CO SPLIC ER TO	EMENT NCRET ES IN	E BEAI CONCI	MS, SL RETE (ABS, A COLUMN	AND WA NS SHA	RESH CON LLS SHALL LL COMPR NG IS LES	_ BE RESSION

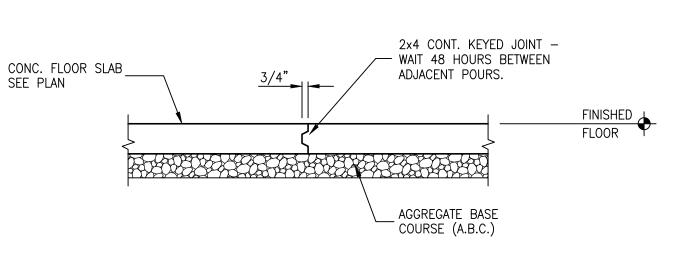
LAP SCHEDULE FOR REINFORCING STEEL



TYPICAL REINFORCING BAR BENDS

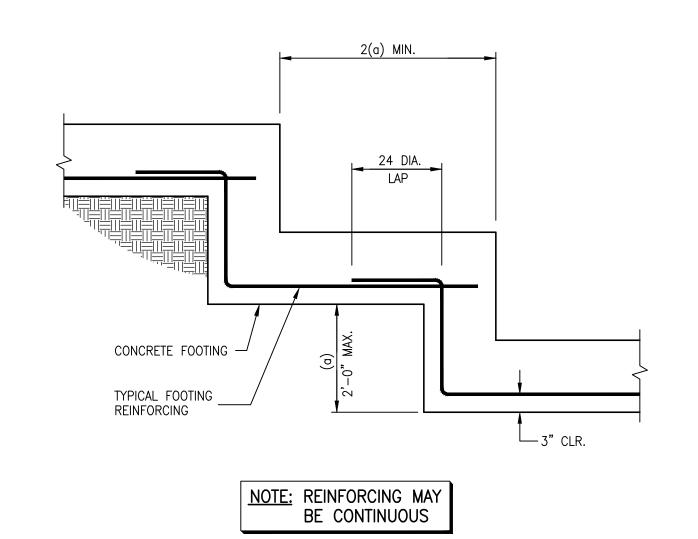


A TYPICAL CONTROL JOINT

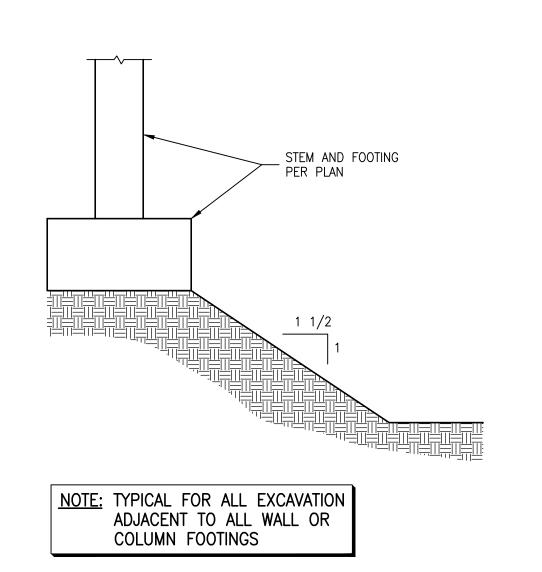


B TYP. KEYED CONSTRUCTION JOINT

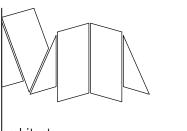
TYPICAL CONCRETE FLOOR JOINTS



TYPICAL STEPPED FOOTING



3 EXCAVATION ADJACENT TO FOOTING



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Г 602 251 3800

sma project no. **16-101**

sma project name
POWDERCAT

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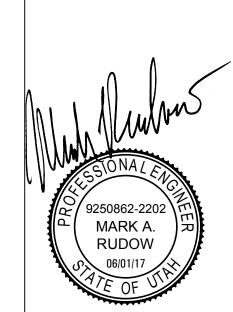
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PLAN REVIEW ACCEPTANCE

FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

| BUILDING | STRUCTURAL | PLUMBING | ELECTRICAL | ENERGY | ACCESSIBILITY | FIRE

| PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS.

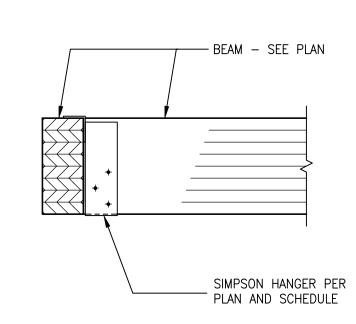
| MEM | DATE: 07/21/17 | WEST COAST CODE CONSULTANTS, INC.

SO.11 TYPICAL DETAILS

VARIES scale

PERMIT SET phase / rev

phase / rev 2017.06.01 date





JOIST HANGER SCHEDULE								
		TOP FLANG	E HANGER		FACE MOUNT HANGER			
MEMBER SIZE	PERPENDICULAR CONDITION		SKEWED CONDITION TYPE NAILING REQUIREMENTS		PERPENDICULAR CONDITION TYPE NAILING REQUIREMENTS		SKEWED CONDITION TYPE NAILING REQUIREM	
2x8	TYPE N/A	NAILING REQUIREMENTS N/A	N/A	N/A	LB28	(4)16d FACE (2)10d x 1-1/2 JOIST	N/A	N/A
6x8	N/A	N/A	N/A	N/A	HUC68	(8)16d FACE (4)16d JOIST	N/A	N/A
2×10 @ ROOF EYEBROW	N/A	N/A	N/A	N/A	LSSU210	(10)10d FACE (7)10d x 1-1/2 JOIST	LSSU210	(9)10d FACE (7)10d x 1-1/2 JOIST
3x10 @ ROOF EYEBROW	N/A	N/A	N/A	N/A	LSSUH310	(18)16d FACE (12)10d x 1-1/2 JOIST	LSSUH310	(14)16d FACE (12)10d x 1-1/2 JOIST
(4)2×10	N/A	N/A	N/A	N/A	HUC88	(10)16d FACE (4)16d JOIST	N/A	N/A
4×10	HU410TF	(14)16d TOP (6)10d JOIST	HU410TF	(14)16d TOP (6)10d JOIST	N/A	N/A	N/A	N/A
6x8	HU68TF	(12)16d TOP (4)10d JOIST	N/A	N/A	HUC68 @ POST	(10)16d x 2-1/2 FACE (4)10d JOIST	N/A	N/A
3 1/8x9 GLB @ RF EYEBROW	N/A	N/A	N/A	N/A	LSSU410	(18)16d FACE (12)10d x 1-1/2 JOIST	LSSU410	(14)16d FACE (12)10d x 1-1/2 JOIST
14" RED-I45	ITS1.81/14	(4)10d x 1.5" TOP (2)10d x 1.5" FACE	LBV1.81/14	(6)16d x 2.5" TOP (4)16d x 2.5" FACE (2)10d x 1.5" JOIST	MIU1.81/14	(22)16d FACE (2)10d x 1.5" JOIST	N/A	N/A
(2) 14" RED-I45	N/A	N/A	N/A	N/A	MIU3.56/14	(22)16d FACE (2)10d x 1.5" JOIST	N/A	N/A
3 1/8x13 1/2 GLB	GLT3	(10)N54A HEADER (6)N54A JOIST	N/A	N/A	N/A	N/A	N/A	N/A

NOTES:

1. PROVIDE WEB STIFFENERS BOTH SIDES OF ALL RED—I JOISTS AT HANGERS.

2. PROVIDE WEB STIFFENERS BOTH SIDES OF ALL RED—I JOISTS AT HANGERS.

- PROVIDE PERPENDICULAR OR SKEWED HANGERS AS REQUIRED BY THE CONDITIONS AT EACH SPECIFIC HANGER LOCATION. COORDINATE SKEW ANGLE REQUIRED AT EACH LOCATION WITH
- THE PLAN DIMENSIONS, GEOMETRY, AND JOIST LAYOUT...
- 3. "TOP" DENOTES NAILING INTO TOP OF SUPPORTING MEMBER THRU HANGER TOP FLANGE.
- 4. "FACE" DENOTES NAILING INTO SIDE OF SUPPORTING MEMBER THRU HANGER SIDE FLANGES.
- 5. "JOIST" DENOTES NAILING INTO SIDES OF SUPPORTED JOIST THRU SIDES OF HANGER.
- 6. "HEADER" DENOTES COMBINATION OF "FACE" AND "TOP" PER MANUFACTURER REQUIREMENTS. HANGERS INDICATED ARE TO BE BY SIMPSON STRONG-TIE. ALTERNATE HANGER MANUFACTURER'S WILL BE CONSIDERED UPON SUBMITTAL OF ALTERNATE HANGER MANUFACTURER'S LOAD AND NAILING LITERATURE, ALONG WITH A WRITTEN COMPARISON OF THE PROPOSED HANGER AND NAILING AT EACH LOCATION, AND THE RESULTING PROPOSED HANGER UPLIFT AND DOWNWARD CAPACITY AS COMPARED TO THE CAPACITY OF THE SPECIFIED HANGER AND NAILING. SUBMITTALS THAT DO NOT HAVE ALL OF THE INDICATED INFORMATION WILL BE REJECTED. ALTERNATE MANUFACTURER'S PRODUCTS SHOULD NOT BE USED PRIOR TO RECEIVING ENGINEER APPROVAL OF THE SUBMITTED ALTERNATES.
- 8. SEE DETAIL 8/SO.11 FOR TYPICAL DOUBLE JOIST CONSTRUCTION. 9. PROVIDE SOLID WOOD SHIM EA. SIDE OF JOIST WHERE HANGER WIDTH IS WIDER THAN JOIST WIDTH WHERE REQUIRED.
- 10. ALL HANGERS TO HAVE SLOPED SEATS AS REQUIRED TO MATCH JOIST SLOPE.

	POST SCHEDULE					
MARK	SIZE	BASE CONNECTION				
P1	4x4 D.FIR #1	OPTION 1: (4)16d FACE NAILS THRU SILL PLATE (PRIOR TO ERECTING WALL). OPTION 2: SIMPSON "A34" EACH SIDE OF POST. OPTION 3: (2)16d TOENAILS TO SILL PLATE EA. SIDE OF POST.				
P2	6x8 D.FIR #1	OPTION 1: (4)16d FACE NAILS THRU SILL PLATE (PRIOR TO ERECTING WALL). OPTION 2: SIMPSON "A34" EACH SIDE OF POST. OPTION 3: (2)16d TOENAILS TO SILL PLATE EA. SIDE OF POST.				
Р3	8x8 D.FIR #1	OPTION 1: (6)16d FACE NAILS THRU SILL PLATE (PRIOR TO ERECTING WALL). OPTION 2: SIMPSON "A34" EACH SIDE OF POST. OPTION 3: (3)16d TOENAILS TO SILL PLATE EA. SIDE OF POST.				
P4	BUILT-UP POST PER SHEARWALL ELEV's	SEE DETAIL 6/S2.12				
P5	6x6 D.FIR #1	OPTION 1: (6)16d FACE NAILS THRU SILL PLATE (PRIOR TO ERECTING WALL). OPTION 2: SIMPSON "A34" EACH SIDE OF POST. OPTION 3: (3)16d TOENAILS TO SILL PLATE EA. SIDE OF POST.				

- 1. ALL POSTS CONTINUE FULL HEIGHT ABOVE LEVEL WHERE CALLED OUT. SPLICE AT FLOOR
- LEVELS PER ELEVATIONS AND DETAILS. 2. SEE WALL ELEVATIONS FOR POSTS NOT CALLED OUT ON PLAN.
- 3. WHERE 6x8 AND 8x8 POSTS OCCUR IN WALLS, RIP POST WIDTH TO MATCH WALL STUD WIDTH.

	WALL FOOTING SCHEDULE						
MARK	SIZE	REINFORCING	REMARKS				
WF1	1'-8" x 12" THICK	(2) #5 CONT.	TYPICAL U.N.O.				
WF2	2'-0" x 12" THICK	(2) #5 CONT.					
WF3	3'-0" x 12" THICK	(3) #5 LONGIT. CONT. #5 @ 16" O.C. TRANS.					
WF4	4'-0" x 12" THICK	(4) #5 LONGIT. CONT. #5 @ 16" O.C. TRANS.					
WF5	5'-0" x 12" THICK	(5) #5 LONGIT. CONT. #5 @ 14" O.C. TRANS.					
WF6	6'-0" x 12" THICK	(5) #6 LONGIT. CONT. #6 @ 14" O.C. TRANS.					
WF7	5'-0" x 12" THICK	(5) #5 LONGIT. CONT. #5 @ 10" O.C. TRANS.					
WF8	4'-0" x 12" THICK	(4) #5 LONGIT. CONT. #5 @ 10" O.C. TRANS.					

SHEARWALL SCHEDULE

— SHEATHING AND ATTACHMENT MARK

— DENOTES SHEARWALL

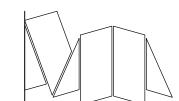
MARK	SHEATHING & ATTACHMENT	TYPICAL SILL PLATE ATTACHMENT
SW1	1/2" NOMINAL RATED SHEATHING PER G.S.N. ONE SIDE OF WALL WITH 8d NAILS @ 6" O.C. @ PANEL EDGES AND 8d NAILS @ 12" O.C. @ INTERMEDIATE SUPPORTS.	1/2"ø J-BOLT ANCHORS WITH 1-1/2" HOOK AND MIN. 6" EMBEDMENT, SPACED AT 32" O.C. MAX.
SW2	5/8" NOMINAL RATED SHEATHING PER G.S.N. AT OUTSIDE FACE OF WALL WITH 10d NAILS @ 4" O.C. @ PANEL EDGES AND 10d NAILS @ 12" O.C. @ INTERMEDIATE SUPPORTS.	1/2"ø J-BOLT ANCHORS WITH 1-1/2" HOOK AND MIN. 6" EMBEDMENT, SPACED AT 16" O.C. MAX.
SW3	5/8" NOMINAL RATED SHEATHING PER G.S.N. BOTH SIDES OF WALL WITH 10d NAILS @ 6" O.C. @ PANEL EDGES AND 10d NAILS @ 12" O.C. @ INTERMEDIATE SUPPORTS.	1/2"ø J-BOLT ANCHORS WITH 1-1/2" HOOK AND MIN. 6" EMBEDMENT, SPACED AT 16" O.C. MAX.
SW4	5/8" NOMINAL RATED SHEATHING PER G.S.N. BOTH SIDES OF WALL WITH 10d NAILS @ 3" O.C. @ PANEL EDGES AND 10d NAILS @ 12" O.C. @ INTERMEDIATE SUPPORTS.	SEE SHEAR WALL ELEVATIONS
SW5	5/8" NOMINAL RATED SHEATHING PER G.S.N. BOTH SIDES OF WALL WITH 10d NAILS @ 2" O.C. @ PANEL EDGES AND 10d NAILS @ 12" O.C. @ INTERMEDIATE SUPPORTS.	SEE SHEAR WALL ELEVATIONS
	SW2 SW3	SW1 1/2" NOMINAL RATED SHEATHING PER G.S.N. ONE SIDE OF WALL WITH 8d NAILS @ 6" O.C. @ PANEL EDGES AND 8d NAILS @ 12" O.C. @ INTERMEDIATE SUPPORTS. 5/8" NOMINAL RATED SHEATHING PER G.S.N. AT OUTSIDE FACE OF WALL WITH 10d NAILS @ 4" O.C. @ PANEL EDGES AND 10d NAILS @ 12" O.C. @ INTERMEDIATE SUPPORTS. 5/8" NOMINAL RATED SHEATHING PER G.S.N. BOTH SIDES OF WALL WITH 10d NAILS @ 12" O.C. @ INTERMEDIATE SUPPORTS. 5/8" NOMINAL RATED SHEATHING PER G.S.N. BOTH SIDES OF WALL WITH 10d NAILS @ 3" O.C. @ PANEL EDGES AND 10d NAILS @ 12" O.C. @ INTERMEDIATE SUPPORTS. 5/8" NOMINAL RATED SHEATHING PER G.S.N. BOTH SIDES OF WALL WITH 10d NAILS @ 12" O.C. @ INTERMEDIATE SUPPORTS. 5/8" NOMINAL RATED SHEATHING PER G.S.N. BOTH SIDES OF WALL WITH 10d NAILS @ 2" O.C. @ PANEL EDGES AND 10d NAILS @ 2" O.C. @ PANEL EDGES AND 10d NAILS

SHEARWALL NOTES:

- I. ALL INTERIOR DEMISING WALLS ARE TO HAVE SHEATHING TYPE "SW1" WITH THE SHEATHING
- LOCATED ON THE UNIT SIDE OF THE WALL.

 2. WALLS ON GRIDS "1", "4", "5", "9", "10" AND "13" ARE TO HAVE SHEATHING TYPE "SW3". 3. FAR SOUTH WALLS OF ALL UNITS (APPROX. GRID "D") ARE TO HAVE SHEATHING TYPE "SW2". 4. SEE WALL ELEVATIONS FOR SHEATHING REQUIREMENTS AT WALLS ON GRIDS "A" AND "C". 5. EXTEND SHEATHING NOTED FOR THE FULL LENGTH OF THE WALL SHOWN ON THE PLANS.
- SHEATHING TYPE INDICATED IS TO OCCUR FULL HEIGHT FROM THE BASE OF THE WALL TO THE ROOF OR FLOOR LEVEL AT THE TOP OF THE WALL. EDGE NAIL SPACING APPLIES TO FASTENING AT SHEATHING PANEL EDGES AT ALL STUDS, TOP
- AND BOTTOM PLATES AND BLOCKING. 8. ALL PANEL EDGES ARE TO BE BLOCKED AND NAILED AT ALL SHEAR WALLS. 9. ALL STUDS, BLOCKING, AND TOP AND BOTTOM PLATES AT WALL TYPES "SW4" AND "SW5" ARE TO BE 3x MATERIAL WITH WIDTH EQUAL TO THE WALL WIDTH AT THE LOCATION NOTED. IN
- ADDITION, ALL NAILING AT ABUTTING PANEL EDGES SHALL BE STAGGERED.

 10. SEE WALL ELEVATIONS FOR SHEAR WALL SHEATHING TYPE AND EXTENT AT WALLS NOT INDICATED ON THE PLANS OR IN THESE NOTES.
- . SEE ARCHITECTURAL DRAWINGS FOR SHEATHING REQUIREMENTS AT ALL WALLS THAT ARE NOT
- NOTED AS SHEAR WALLS OR OTHERWISE INDICATED IN THIS SCHEDULE. 12. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.



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sma project no. 16-101

sma project name POWDERCAT

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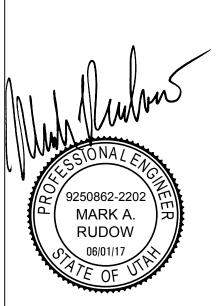
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PLAN REVIEW ACCEPTANCE WEST COAST CODE CONSULTANTS, INC



VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD ^a
1. Inspection of welding:			
a. Reinforcing steel:			
 Verification of weldability of reinforcing steel other than ASTM A706. 		X	AWS D1.4
 Reinforcing steel resisting flexural and axial forces in intermediate and special moment frames, and boundary elements of special structural walls of concrete and shear reinforcement. 	х		ACI 318: Section 3.5.2

For SI: 1 inch = 25.4 mm.
a. Where applicable, see also Section 1705.11, Special inspections for seismic resistance.



2012 IBC, Table 1705.2.2

TABLE 1705.3

	VERIFICATION AND INSPECTION	CONTINUOUS	PERIODIC	REFERENCED STANDARD ^a	IBC REFERENCE
1.	Inspection of reinforcing steel and placement.		Χ	ACI 318: 3.5, 7.1-7.7	1910.4
2.	Inspection of reinforcing steel welding in accordance with Table 1705.2.2, Item 2b.			AWS D1.4 ACI 318: 3.5.2	
3.	Inspection of anchors cast in concrete where allowable loads have been increased or where strength design is used.	-	Х	ACI 318: 8.1.3, 21.2.8	1908.5, 1909.1
4.	Inspection of anchors post-installed in hardened concrete members ^a .		Х	ACI 318: 3.8.6, 8.1.3, 21.2.8	1909.1
5.	Verifying use of required design mix.		Х	ACI 318: CH. 4, 5.2-5.4	1904.2, 1910.2, 1910.3
6.	At the time fresh concrete is sampled to fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	Х		ASTM C 172 ASTM C 31 ACI 318: 5.6, 5.8	1910.10
7.	Inspection of concrete placement for proper application techniques	Х		ACI 318: 5.9, 5.10	1910.6, 1910.7, 1910.8
8.	Inspection for maintenance of specified curing tempaerature and techniques.		Х	ACI 318: 5.11-5.13	1910.9
9.	Inspect formwork for shape, location and dimensions of the concrete member being formed.		Х	ACI 318: 6.1.1	

a. Specific requirements for special inspection shall be included in the research report for the anchor issued by an approved source in accordance with ACI 355.2 or



2012 IBC, Table 1705.3

VERIFICATION AND INSPECTION TASK	CONTINUOUS DURING TASK LISTED	PERIODICALLY DURING TASK LISTED
Verify materials below shallow foundations are adequate to achieve the design bearing capacity.		X
Verify excavations are extended to proper depth and have reached proper material.		х
${\it 3. Perform classification and testing of compacted fill materials.}$		Х
Verify use of proper materials, densities and lift thickness during placement and compaction of compacted fill.	X	
Prior to placement of compacted fill, observe subgrade and verify that site has been prepared properly.		х



INSPECTION TASKS PRIOR TO WELDING	CONT	PERIOD
Welding procedure specifications (WPSs) available	Х	
Manufacturer certifications for welding consumables available	Х	
Material identification (type/grade)	-	Х
Welder identification system ¹		Х
Fit-up of groove welds (including joint geometry) Joint preparation Dimensions (alignment, root opening, root face, bevel) Cleanliness (condition of steel surfaces) Tacking (tack weld quality and location) Backing type and fit (if applicable)		x
Configuration and finish of access holes	-	Х
Fit-up of fillet welds Dimensions (alignment, gaps at root) Cleanliness (condition of steel surfaces) Tacking (tack weld quality and location)		Х
Check welding equipment		Х

TABLE N5.4-2 Inspection Tasks During Welding	I	
INSPECTION TASKS DURING WELDING	CONT	PERIOD
Use of qualified welders		Х
Control and handling of welding consumables • Packaging • Exposure control		Х
No welding over cracked tack welds		Х
Environmental conditions Wind speed within limits Precipitation and temperature		Х
WPS followed Settings on welding equipment Travel speed Selected welding materials Sheilding gas type/flow rate Preheat applied Interpass temperature maintained (min./max.) Proper position (F, V, H, OH)		х
Welding Techniques Interpass and final cleaning Each pass within profile limitations Each pass meets quality requirements		х

TABLE N5.4-3 Inspection Tasks After Welding	l	
INSPECTION TASKS AFTER WELDING	CONT	. PERIODIO
Welds cleaned	-	Х
Size, length and location of welds	Х	
Welds meet visual acceptance criteria Crack prohibition Weld/base-material fusion Crater cross section Weld profiles Weld size Undercut Porosity	Х	-
Arc strikes	X	
k-area ¹	X	
Backing removed and weld tabs removed (if required)	Х	
Repair activities	Х	
Document acceptance or rejection of welded joint or member	Х	
¹ When welding of doubler plates, continuity plates or stiffners has been perfoinspect the web <i>k</i> -area for cracks within 3 in. (75 mm) of the weld.	rmed in the k-area	a, visually



INSPECTION REQUIREMENTS FOR STRUCTURAL STEEL WELDING

AISC 360-10, Table N5.4

TABLE N5.6-1 Inspection Tasks Prior to Bolting		
INSPECTION TASKS PRIOR TO BOLTING	CONT.	PERIODIC
Manufacturer's certifications available for fastener materials	Х	
Fasteners marked in accordance with ASTM requiements		Х
Proper fasteners selected for the joint detail (grade, type, bolt length if theads are to be excluded from shear plane)		Х
Proper bolting procedure selected for joint detail		Х
Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements		Х
Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used		Х
Proper storage provided for bolts, nuts, washers and other fastener components		Х

TABLE N5.6-2 Inspection Tasks During Bolting		
INSPECTION TASKS DURING BOLTING	CONT.	PERIODIC
Fastener assemblies, of suitable condition, placed in all holes and washers (if required) are positioned as required	1	Х
Joint brought to the snug-tight condition prior to the pretensioning operation	-	Х
Fastener component not turned by the wrench prevented from rotating		Х
Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges		Х

TABLE N5.6-3 Inspection Tasks After Bolting		
INSPECTION TASKS AFTER BOLTING	CONT.	PERIODIC
ument acceptance or rejection of bolted connections	Х	



AISC 360-10, Table N5.6

Structural Statement of Special Inspections

This Statement of Special Inspections encompasses the following discipline: Structural

This Statement of Special Inspections is submitted as a condition for permit issuance in accordance with the Special Inspection and Structural Testing requirements of the 2015 International Building Code. It includes a schedule of Special Inspection services and tests applicable to this project.

The owner or owner's authorized agent, other than the contractor, shall employ one or more Approved Agencies to provide special structural inspections and tests during construction as required following. All Approved Agencies shall meet the independence, equipment and personnel requirements of IBC section 1703.1. Each Approved Agency shall provide written documentation to the Building Official as described in IBC section 1704.2.1 for review and approval by the Building Official prior to issuance of a building permit.

The contractor shall review the inspections required in the tables below and shall submit a written statement of responsibility to the Building Official in accordance with IBC section 1704.4 The contractor shall be responsible for coordinating with the Approved Agencies regarding the inspections required, and shall be responsible for scheduling inspections with the Approved Agencies. The contractor shall maintain access to all items requiring inspection in accordance with IBC section 1704.2.2. The Special Inspection program does not relieve the Contractor of his or her responsibilities.

The Approved Agencies shall maintain records of the special inspections and tests and shall submit reports of such to the Building Official and to the Structural Engineer of Record in a timely fashion. Interim reports shall be submitted to the Building Official and the Structural Engineer of Record at an interval determined by the Building Official, but not less frequently than on a weekly basis. Reports shall be in accordance with IBC section 1704.2.4 with discrepancies handled described as noted therein. All discrepancies that are not corrected in a timely fashion shall be promptly brought to the attention of the Building Official and the Structural Engineer of Record. A final report as described in IBC section 1704.2.4 shall be submitted to the Building Official and to the Structural Engineer of Record.

Job site safety and means and methods of construction are solely the responsibility of the Contractor.

INSPECTIONS FOR SEISMIC RESISTANCE

Main Seismic Force Resisting System Description (MSFRS): The MSFRS consists of horizontal wood-sheathed roof and floor diaphragms with nailing requirements as specified in the structural notes and on the structural plans and details. Horizontal straps collect and transfer loads to the shear walls, and are indicated on the plans and details. The floor and roof diaphragms are laterally supported by wood-sheathed shear walls as noted on the plans and in the shear wall schedule. Most shear walls have hold-downs near the ends of the wall segments. Some hold-downs consists of rectangular steel posts built into the walls and connected to the walls by wood framing on both sides of the posts. Other shear wall hold-downs include vertical strap ties and/or tension rods. All hold-downs and their connections to the foundations walls and footings are specified on the plans, details, and wall elevations and in the structural notes.

In addition to the inspections listed in the tables following, periodic special inspection shall be required for nailing, bolting, anchoring and other fastening of elements of the seismic force-resisting system, including wood shear walls, wood diaphragms including blocking where specified, horizontal strapping at shear wall lines, hold-downs, and anchorage to foundation walls and footings.

130 N Central Avenue No.300 Phoenix, Arizona 85004

Г 602 251 3800

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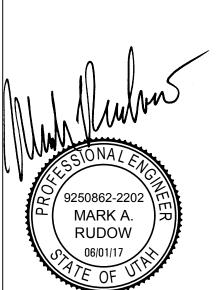
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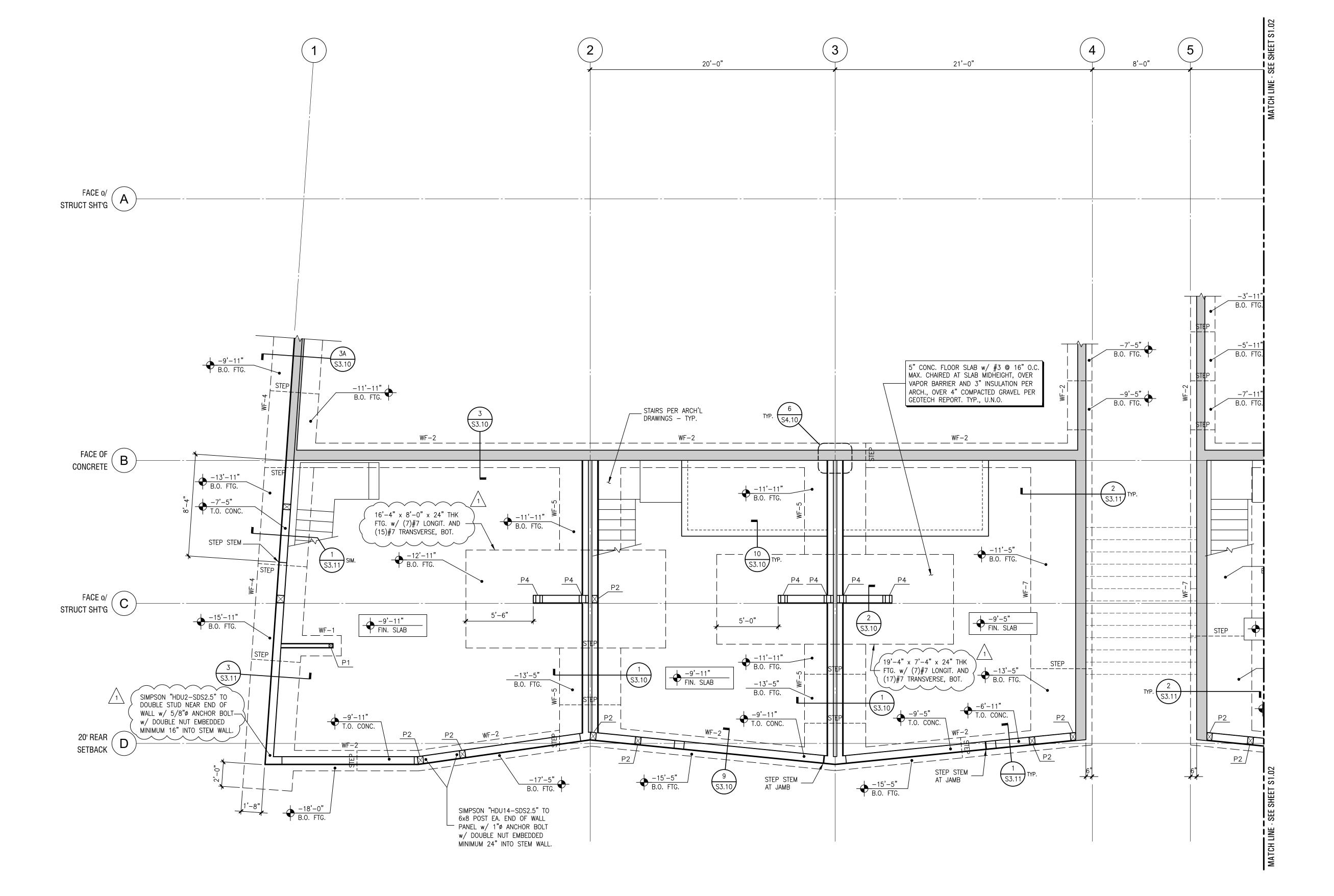
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ELECTRICAL ENERGY WEST COAST CODE CONSULTANTS, INC

INSPECTION **STATEMENT**

PERMIT SET phase / rev **2017.06.01** date



AutoCAD Version: 2017 June 26, 2017 10:55:24 a.m. Drawing: W:\A17100 — CCW Powdercat\S1.01.DWG (KAB) Xrefs: XN-FDNNOTES XR-MAIN-16126 XT-16126

FOUNDATION PLAN NOTES:

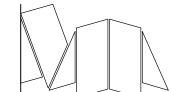
- 1. SEE SHEETS SO.10 & SO.11 FOR:
- A. GENERAL STRUCTURAL NOTES
 B. TYPICAL EXCAVATION ADJACENT TO

FOOTING

- C. TYPICAL SLAB JOINT DETAILSD. TYPICAL STEPPED FOOTING DETAIL
- D. TYPICAL STEPPED FOOTING D
- 2. P1 DENOTES WOOD POST MARK SEE SCHED. ON SHEET S0.12.
- 3. WF1 DENOTES WALL FOOTING MARK SEE SCHED. ON SHEET SO.12.
- 4. SW1 DENOTES SHEARWALL SHEATHING PER SCHED. ON SHEET S0.12.
- 5. ALL SLABS ON GRADE ARE TO BE JOINTED AS SHOWN. PROVIDE (2) #4 x 4'-0" MID-HEIGHT SLAB BARS ADJACENT TO ALL DISCONTINUOUS JOINT LOCATIONS. ALL COLUMN ISOLATION JOINT CORNERS ARE TO BE INTERSECTED BY A SLAB JOINT OR REINFORCED WITH SLAB

BARS PER ABOVE.

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 SLAB SLOPES & DEPRESSIONS NOT NOTED.
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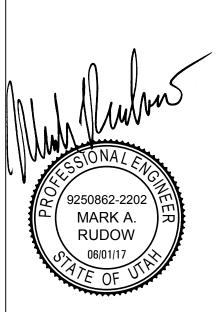
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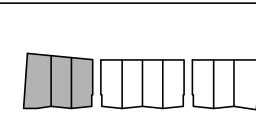
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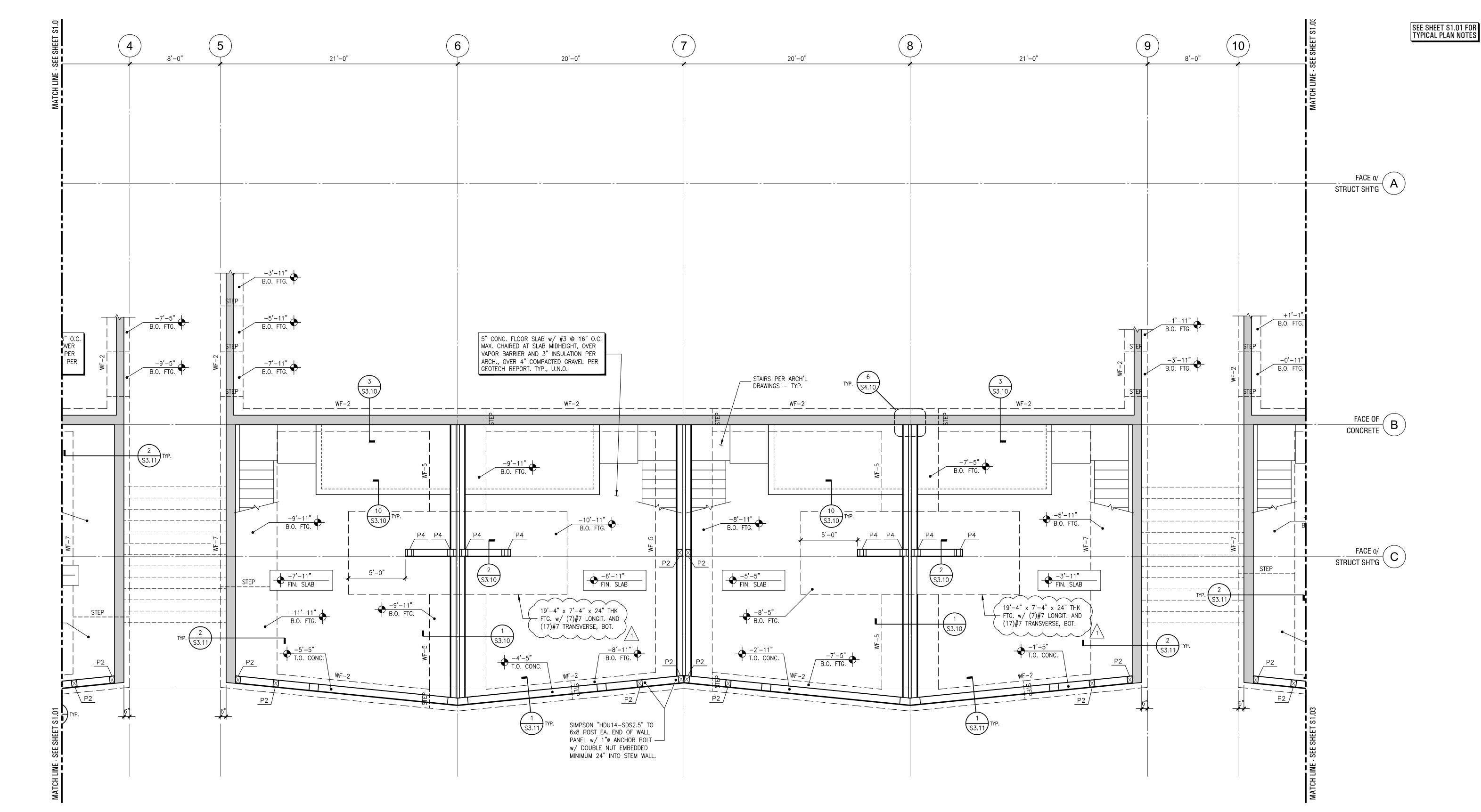


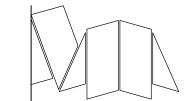


KEYMAP

1/4" = 1'-0" scale

PERMIT SET phase / rev
2017.06.01 date





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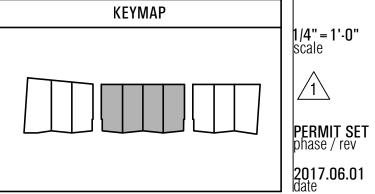
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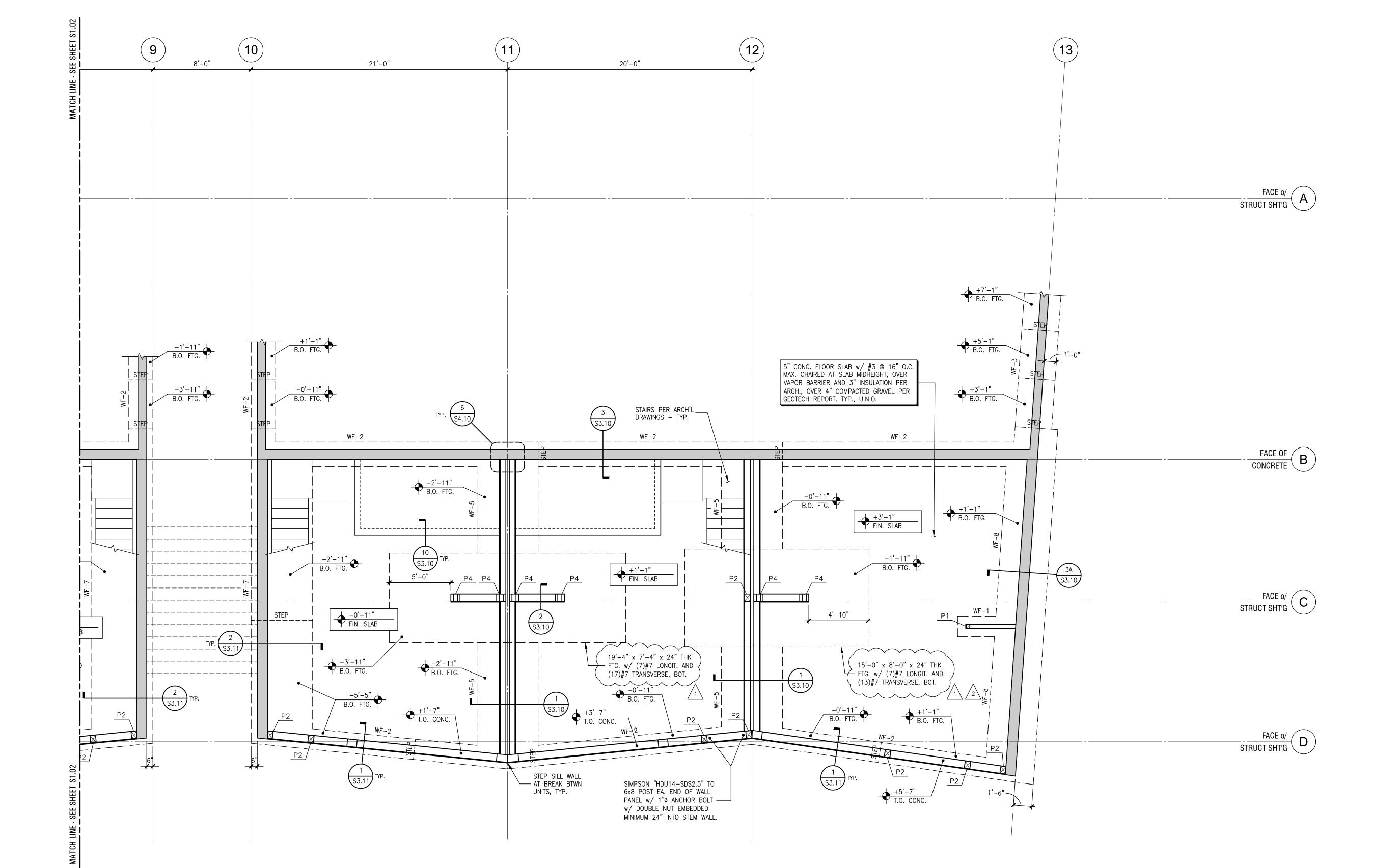
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9250862-2202 MARK A. RUDOW 06/01/17

\$1.02 FOUNDATION PLAN LOWER LEVEL





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FOUNDATION PLAN NOTES:

- 1. SEE SHEETS S0.10 & S0.11 FOR:
- A. GENERAL STRUCTURAL NOTES
 B. TYPICAL EXCAVATION ADJACENT TO
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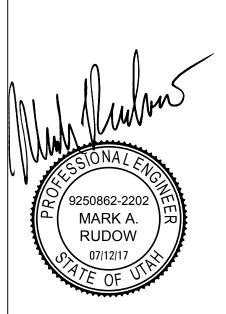
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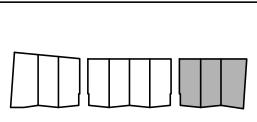
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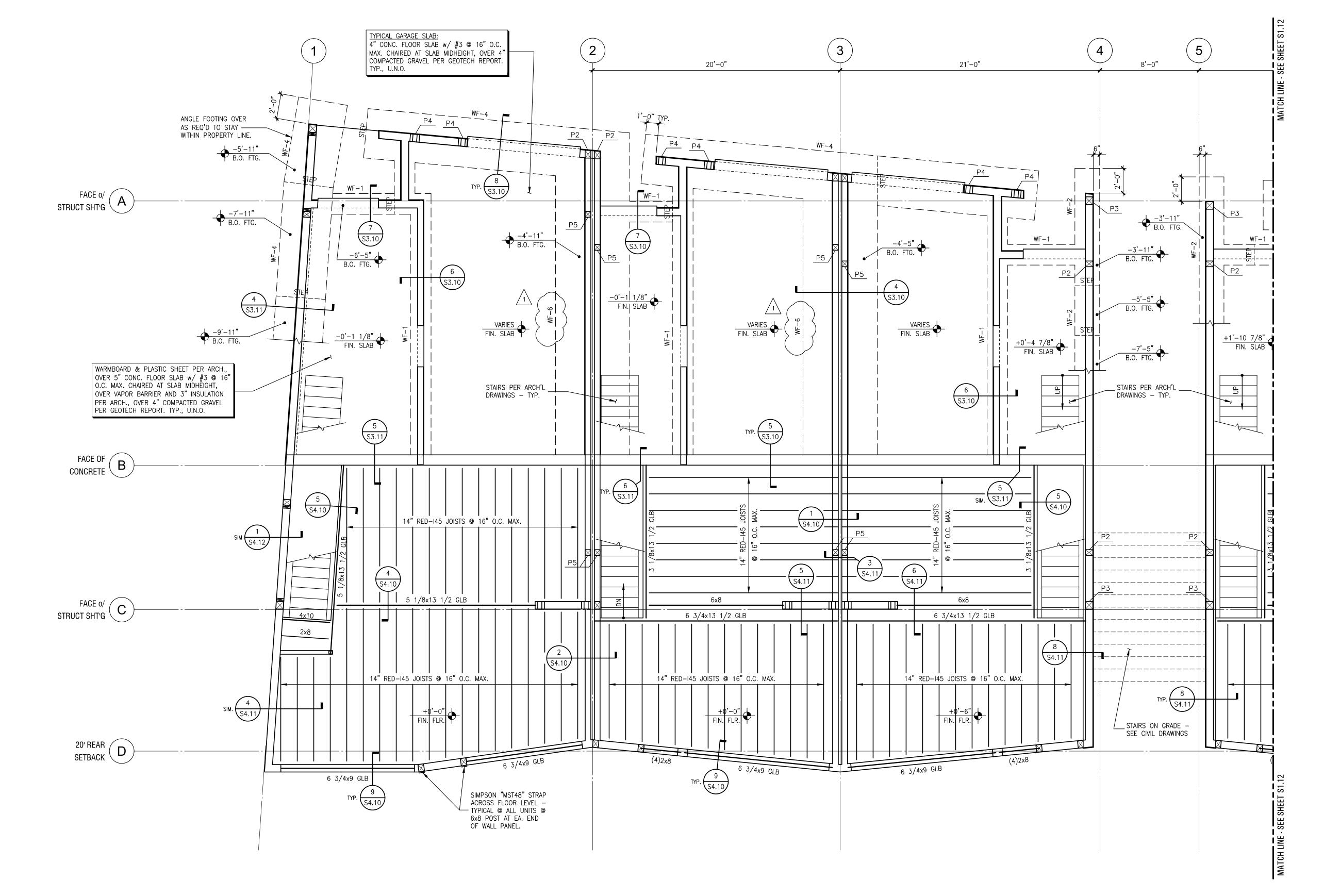
\$1.03 FOUNDATION PLAN LOWER LEVEL



KEYMAP

1/4" = 1'-0" scale

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2017.06.01 date



FOUNDATION PLAN NOTES:

- 1. SEE SHEETS S0.10 & S0.11 FOR:
 - GENERAL STRUCTURAL NOTES TYPICAL EXCAVATION ADJACENT TO
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- D. TYPICAL STEPPED FOOTING DETAIL
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WOOD FLOOR FRAMING PLAN NOTES:

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- DETAIL 7/S0.11. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. SEE
- SEE ARCH'L DRAWINGS FOR ALL DIMENSIONS NOT INDICATED.

SLAB SLOPES & DEPRESSIONS NOT NOTED.

ARCHITECTURAL FOR ALL DIMENSIONS,

- 8. SEE ARCH'L FOR ALL STAIR DIMENSIONS &
- ELEVATIONS. 9. FIN. FLR. DATUM: +0'-0" = 8600.5'

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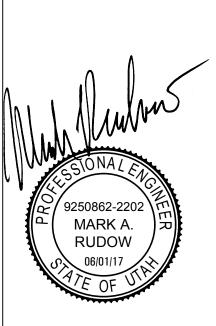
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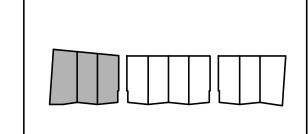
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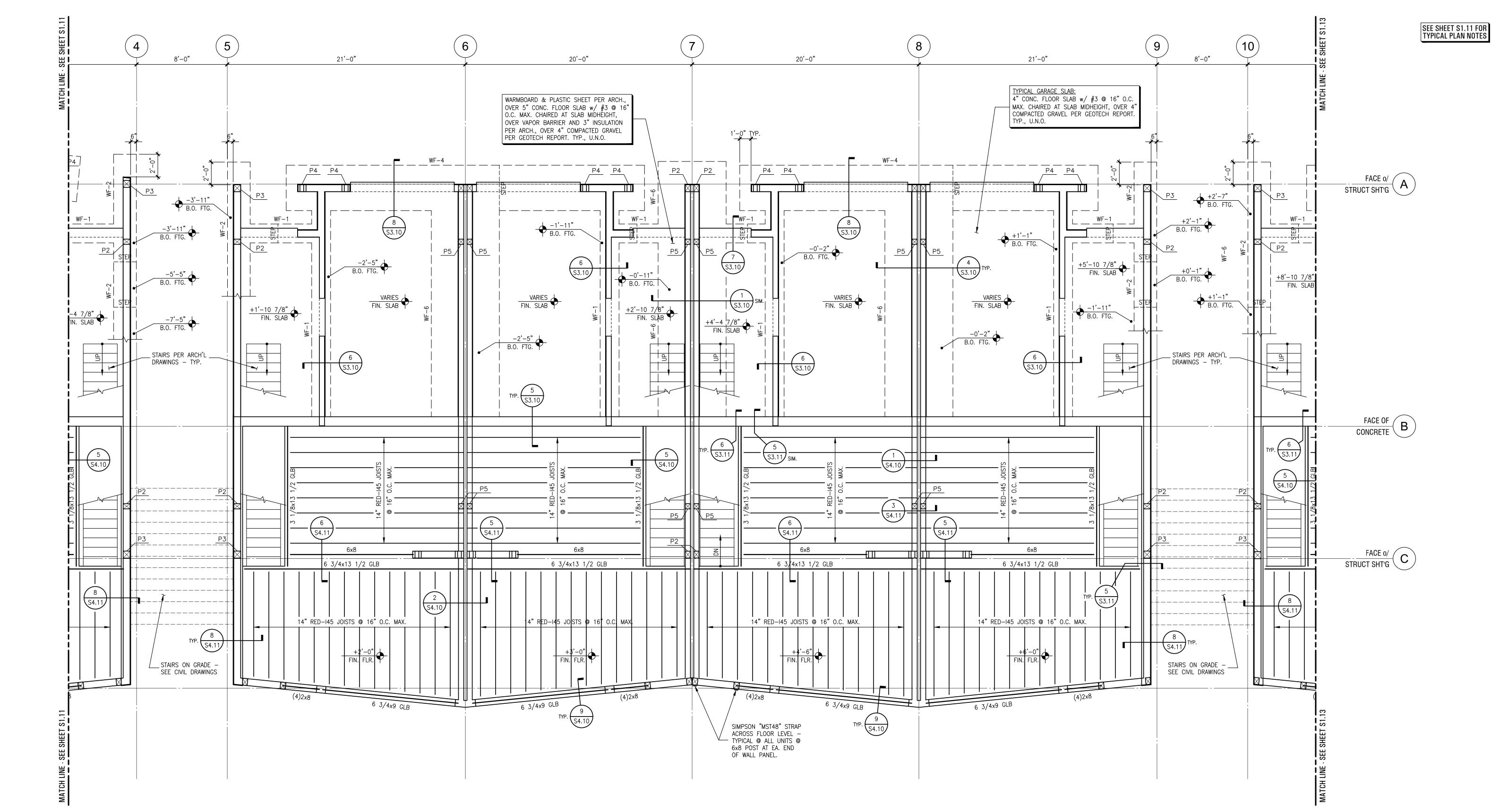




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PERMIT SET phase / rev **2017.06.01** date



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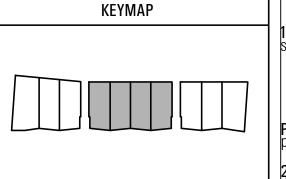
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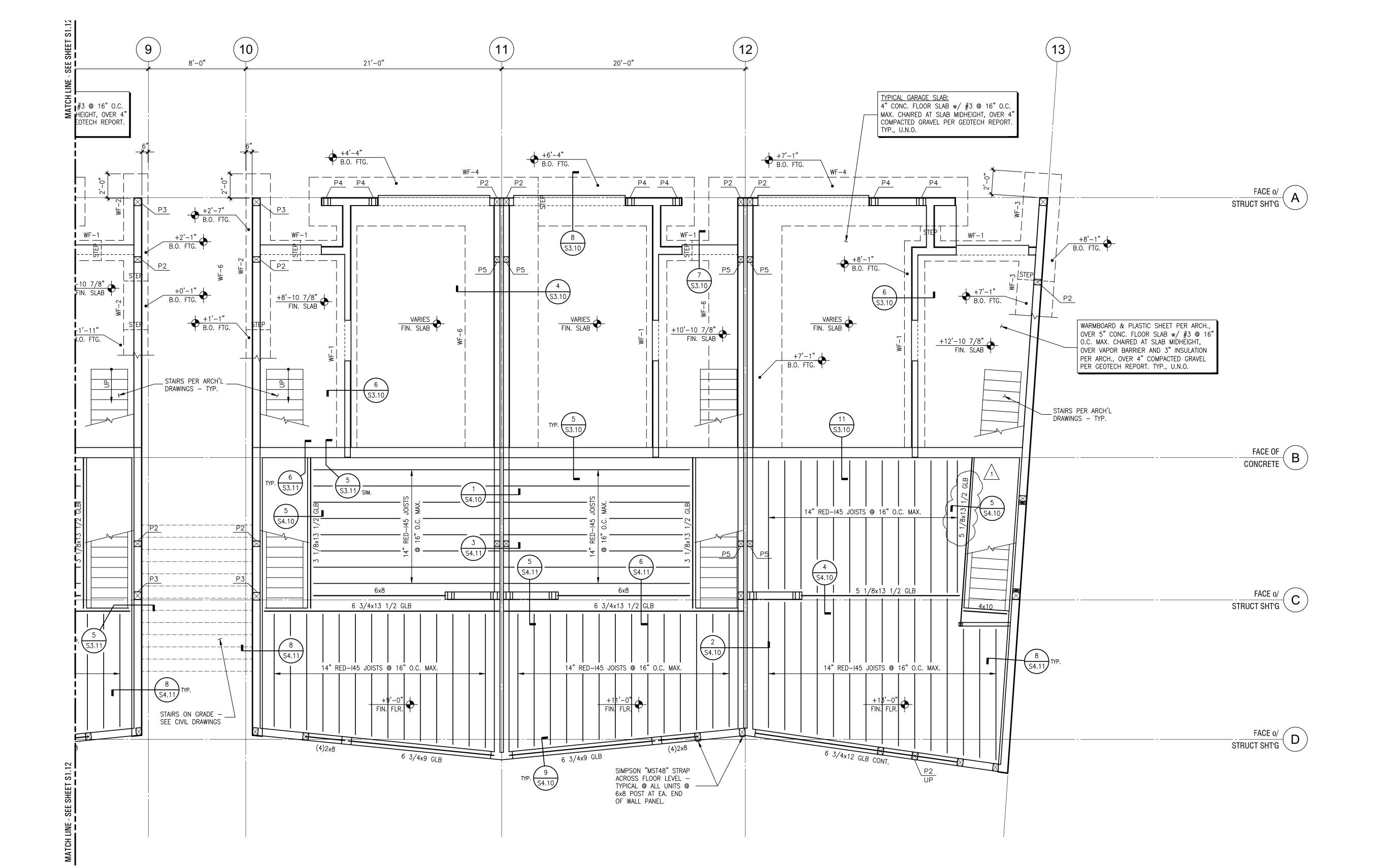
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BY: MEM DATE: 07/21/17

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S1.12 FDN./FLR. FRMG. PLAN ENTRY LEVEL





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WOOD FLOOR FRAMING PLAN NOTES:

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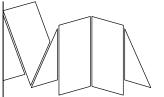
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AND ELEVATIONS WITH ARCHITECTURAL

- DRAWINGS PRIOR TO CONSTRUCTION. SEE ARCHITECTURAL FOR ALL DIMENSIONS, SLAB SLOPES & DEPRESSIONS NOT NOTED.

 7. SEE ARCH'L DRAWINGS FOR ALL DIMENSIONS
- NOT INDICATED.

 8. SEE ARCH'L FOR ALL STAIR DIMENSIONS &
- ELEVATIONS.
- 9. FIN. FLR. DATUM: +0'-0" = 8600.5'



architect **STUDIO MA** 130 N Central Avenue No.300

Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name
POWDERCAT

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orr powdercat th development, lc l 1180 sunrise valley drive, ste 300

t (703) 289-2125

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talisman civil consultants
5217 south state st. ste 200

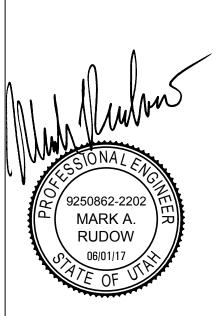
5217 south state st, ste 200 murray, ut 84107 t (801) 743-1308 STRUCTURAL

rudow+berry, inc. 4032 n miller rd. a100 scottsdale, az 85255 t (480) 946-8171 MECH/PLBG/ELEC

peterson associates consulting engineers, inc. 7201 n dreamy draw dr, ste 200 phoenix, az 85020

: (602) 388-1732 -ANDSCAPE

langvardt design group 328 W 200 S salt lake city, ut 84101 t (801) 583-1295



PLAN REVIEW ACCEPTANCE

FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

BUILDING STRUCTURAL PLUMBING

MECHANICAL PLUMBING

ELECTRICAL ENERGY

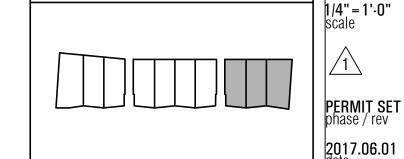
ACCESSIBILITY FIRE

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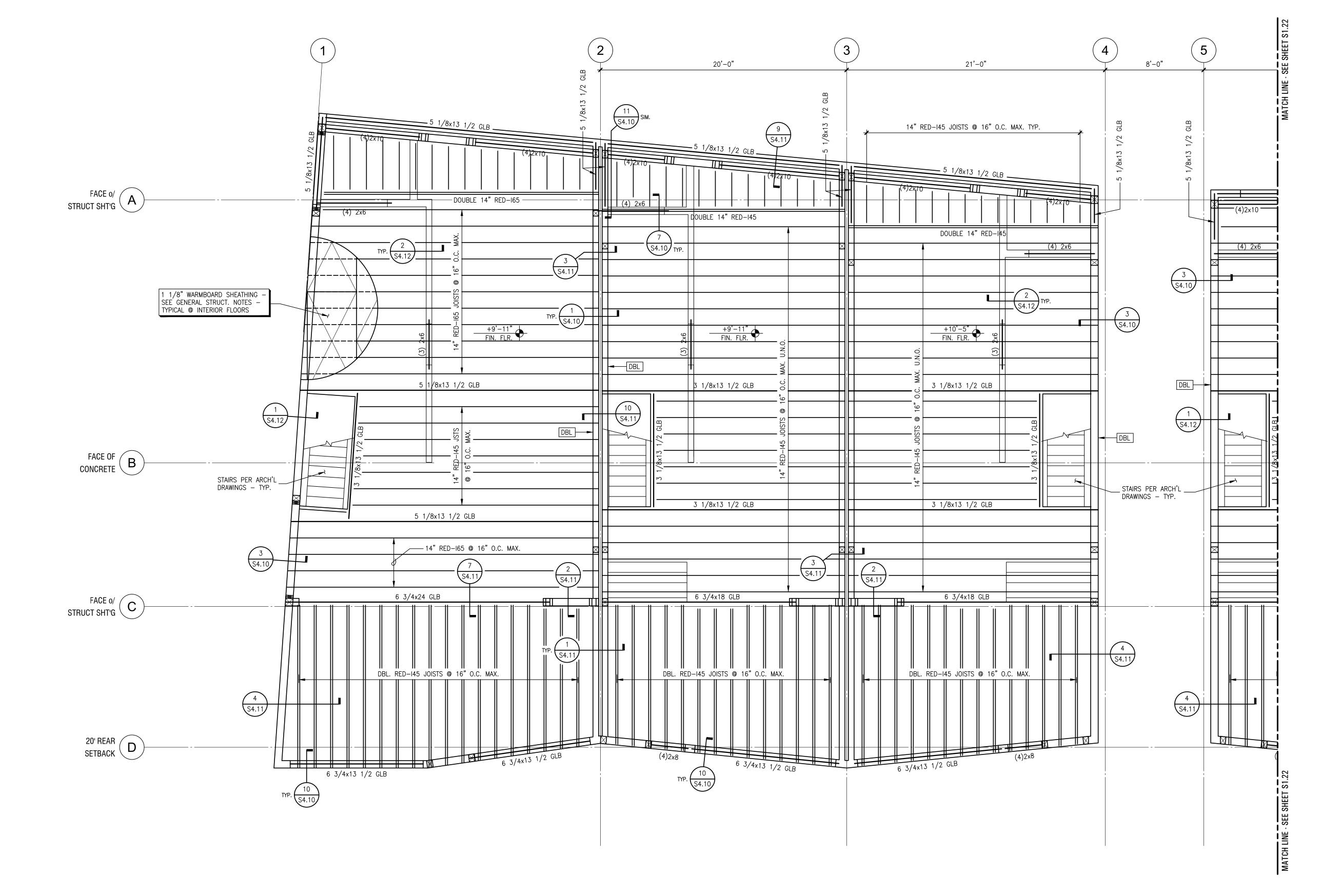
BY: MEM DATE: 07/21/17

WEST COAST CODE CONSULTANTS, INC.

S1.13 FDN./FLR. FRMG. PLAI ENTRY LEVEL



KEYMAP



WOOD FLOOR FRAMING PLAN NOTES:

- 1. SEE SHEETS S0.10 & S0.11 FOR:
- GENERAL STRUCTURAL NOTES TYPICAL TOP PLATE SPLICE DETAIL
- TYPICAL HEADER DETAIL TYPICAL BEAM TO BEAM CONN. E. TYPICAL BEAM TO POST CONN.
- 2. P1 DENOTES WOOD POST MARK SEE SCHED. ON SHEET S0.12.

DENOTES TYPICAL WALL STUDS @ 16" O.C. ARE TO BE DOUBLED AT FULL LENGTH OF WALL, BETWEEN 3. DBL - THE UPPER LEVEL AND ROOF LEVEL. (DOUBLE 2x8's AT EXTERIOR WALLS, DOUBLE 2x6's

AT INTERIOR WALLS.)

- 4. HANGING CEILING, DUCTWORK OR OTHER ITEMS FROM THE WOOD SHEATHING IS NOT
- ALLOWED. . ______ – DENOTES WOOD HEADER PER

DETAIL 7/SO.11.

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. SEE ARCHITECTURAL FOR ALL DIMENSIONS, SLAB SLOPES & DEPRESSIONS NOT NOTED.
- SEE ARCH'L DRAWINGS FOR ALL DIMENSIONS NOT INDICATED.
- 8. SEE ARCH'L FOR ALL STAIR DIMENSIONS & ELEVATIONS.

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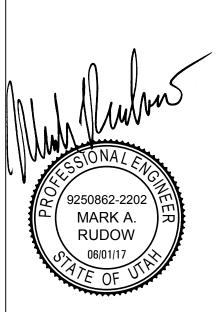
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t (480) 946-8171

t (801) 743-1308 STRUCTURAL rudow+berry, inc. 4032 n miller rd. a100 scottsdale, az 85255

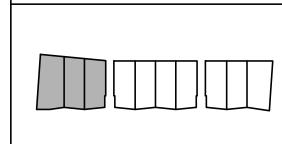
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LANDSCAPE langvardt design group salt lake city, ut 84101 t (801) 583-1295



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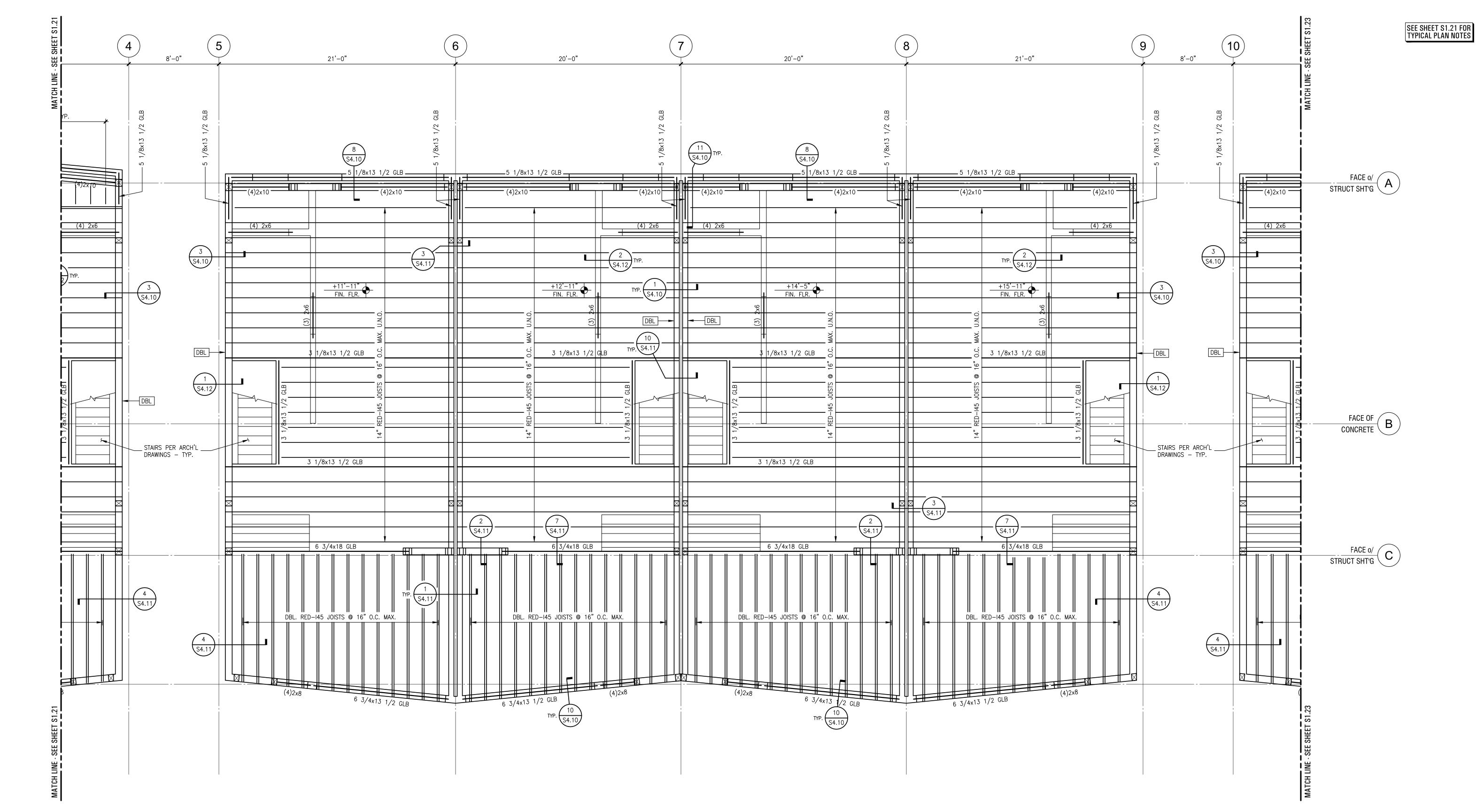
S121 FLOOR FRAMING PLAN UPPER LEVEL



KEYMAP

1/4" = 1'-0" scale

2017.06.01 date



architect

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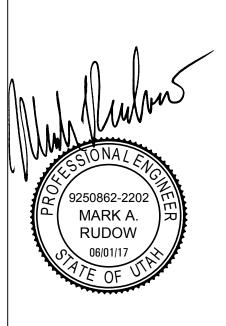
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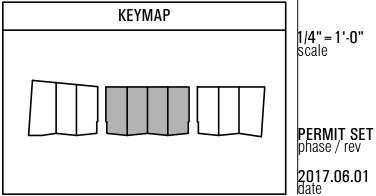
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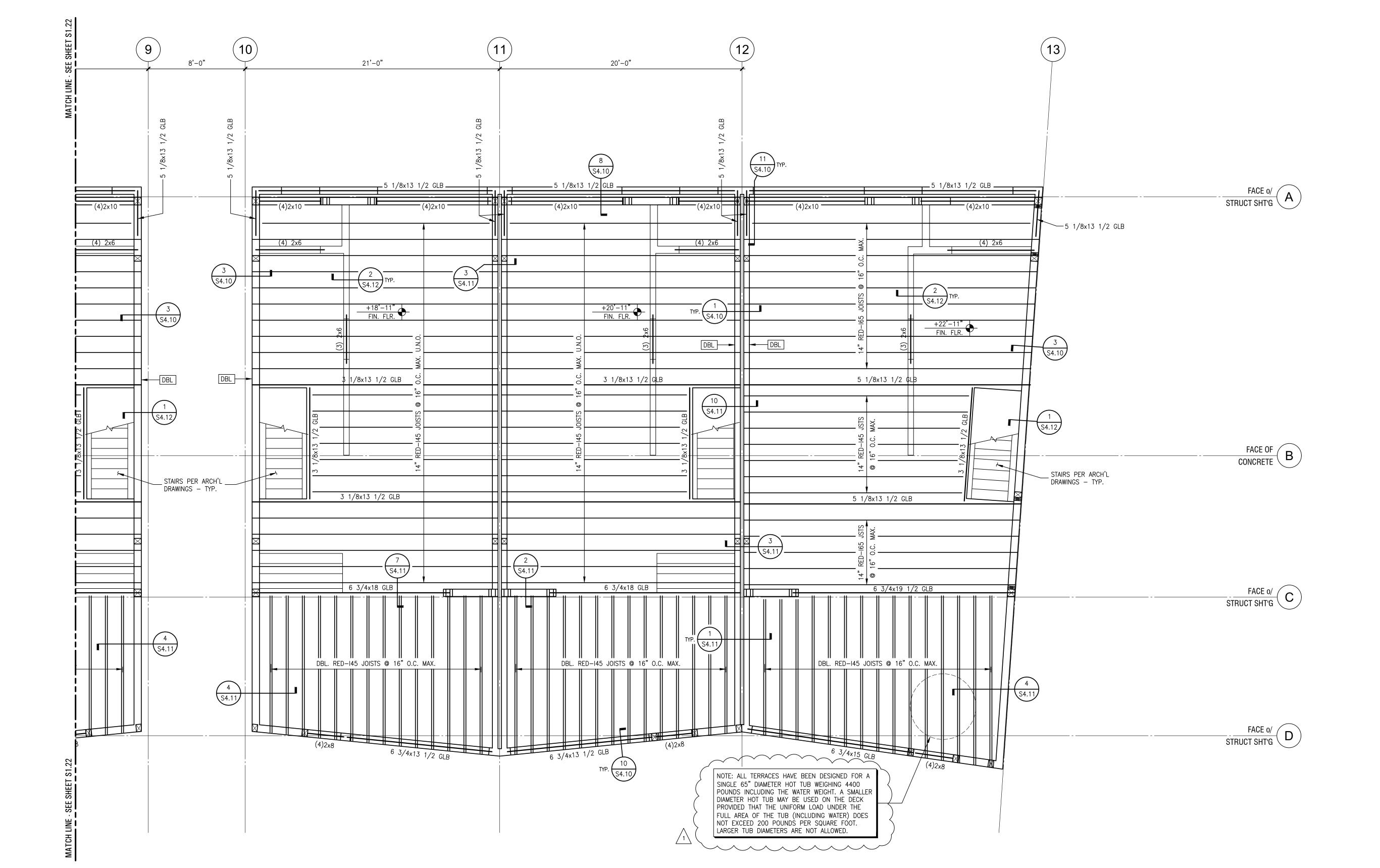
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\$1.22 FLOOR FRAMING PLAN UPPER LEVEL





WOOD FLOOR FRAMING PLAN NOTES:

- 1. SEE SHEETS S0.10 & S0.11 FOR:
- GENERAL STRUCTURAL NOTES TYPICAL TOP PLATE SPLICE DETAIL TYPICAL HEADER DETAIL
- TYPICAL BEAM TO BEAM CONN. E. TYPICAL BEAM TO POST CONN.
- 2. P1 DENOTES WOOD POST MARK SEE SCHED. ON SHEET S0.12.

DENOTES TYPICAL WALL STUDS @ 16" O.C. ARE TO BE DOUBLED AT FULL LENGTH OF WALL, BETWEEN 3. DBL - THE UPPER LEVEL AND ROOF LEVEL. (DOUBLE 2x8's AT EXTERIOR WALLS, DOUBLE 2x6's

- AT INTERIOR WALLS.) HANGING CEILING, DUCTWORK OR OTHER ITEMS FROM THE WOOD SHEATHING IS NOT
- ALLOWED.
- ______ DENOTES WOOD HEADER PER DETAIL 7/SO.11.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. SEE ARCHITECTURAL FOR ALL DIMENSIONS, SLAB SLOPES & DEPRESSIONS NOT NOTED.
- SEE ARCH'L DRAWINGS FOR ALL DIMENSIONS NOT INDICATED.
- 8. SEE ARCH'L FOR ALL STAIR DIMENSIONS & ELEVATIONS.
- 9. FIN. FLR. DATUM: +0'-0" = 8600.5'

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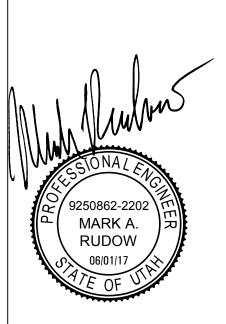
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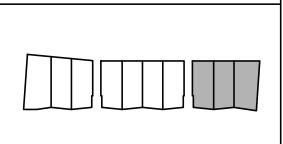
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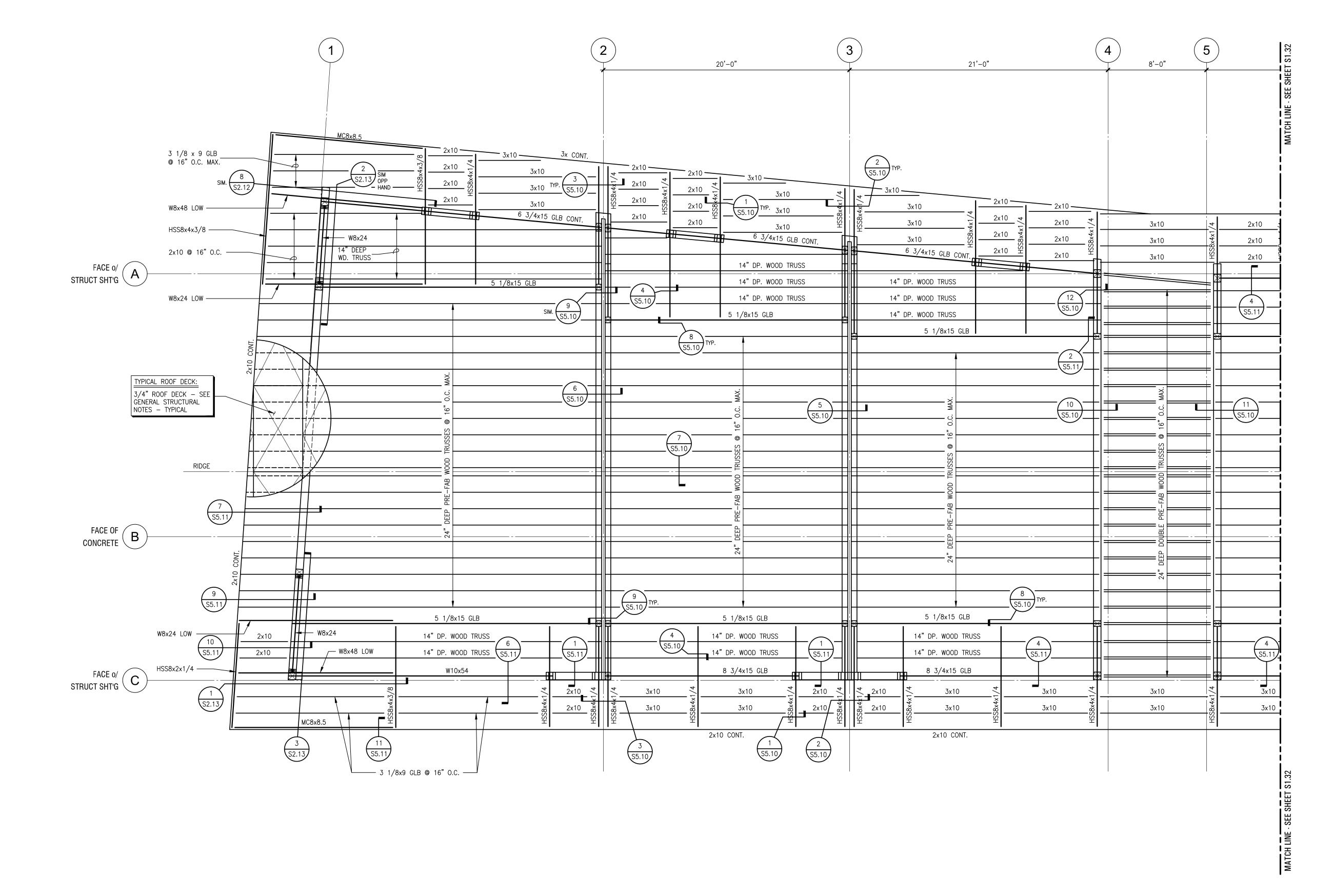
\$1.23 FLOOR FRAMING PLAN UPPER LEVEL



KEYMAP

1/4" = 1'-0" scale

PERMIT SET phase / rev **2017.06.01** date



ROOF FRAMING PLAN NOTES:

- 1. SEE SHEETS S0.10 & S0.11 FOR: GENERAL STRUCTURAL NOTES TYPICAL TOP PLATE SPLICE DETAIL
- TYP. MECH'L UNIT SUPPORT FRAMING TYPICAL HEADER DETAIL TYPICAL BEAM TO BEAM CONN. TYPICAL BEAM TO POST CONN. G. TYPICAL ROOF PLYWOOD LAYOUT.
- 2. SEE ARCH'L DRAWINGS FOR ALL B.O.D. ROOF ELEVATIONS.
- 3. DENOTES OPENING IN ROOF DECK, COORDINATED SIZE & LOCATION w/ MECH. DRAWINGS. PROVIDE OPENING FRAMING PER DETAILS ON SHEET SO.11.
- 4. — DENOTES WOOD HEADER PER DETAIL 7/S0.11.
- 5. ESTABLISH AND VERIFY ALL OPENINGS & INSERTS FOR MECHANICAL, ELECTRICAL & PLUMBING WITH THE APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.
- 6. HANGING CEILING, DUCTWORK OR OTHER ITEMS FROM THE ROOF SHEATHING IS NOT ALLOWED.

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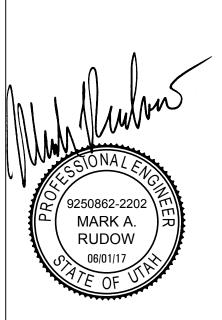
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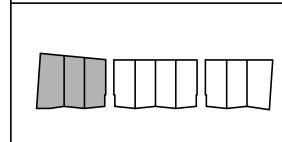
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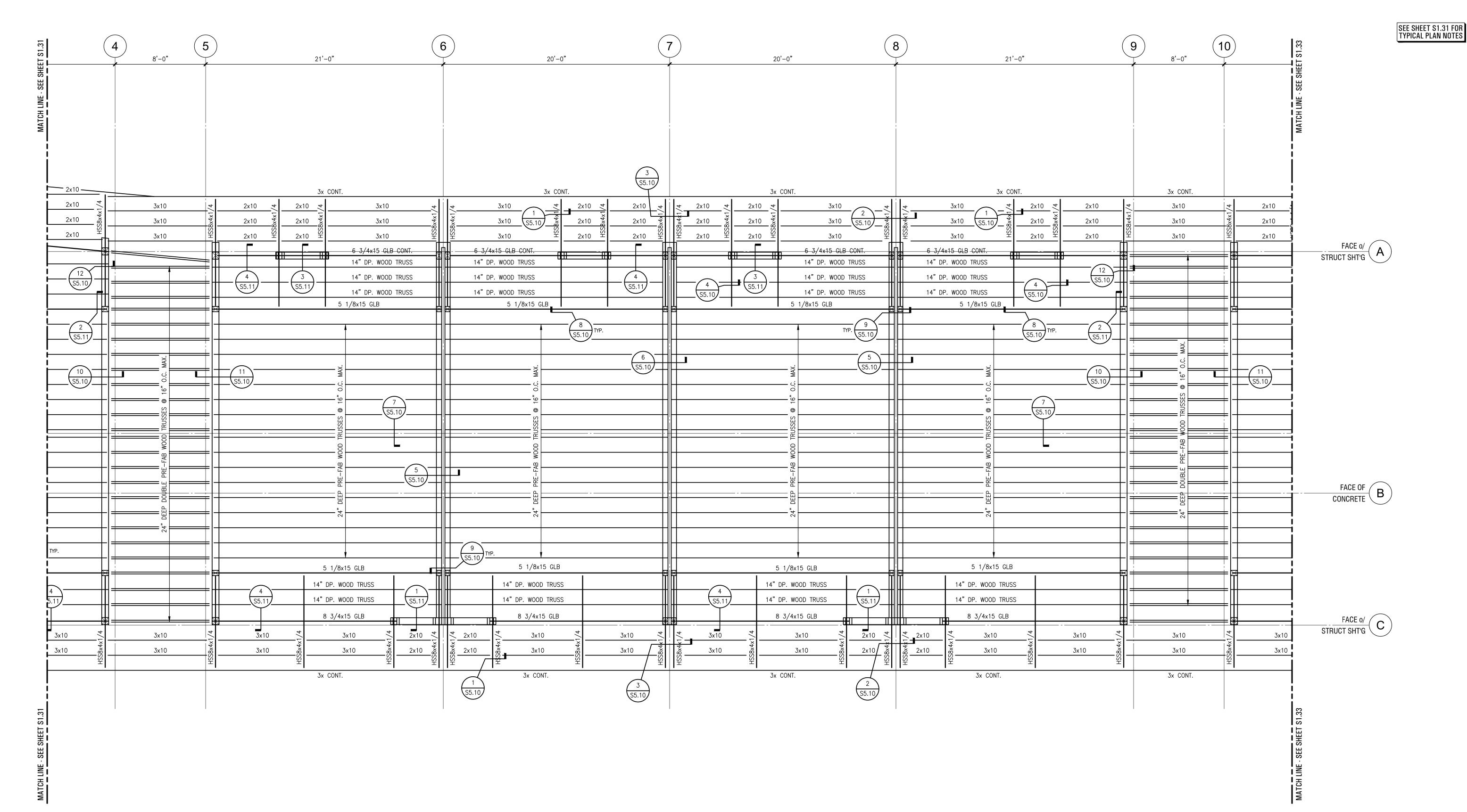
S131 ROOF FRAMING PLAN ROOF LEVEL



KEYMAP

1/4" = 1'-0"

2017.06.01 date



FOR TES

architect STUDIO MA

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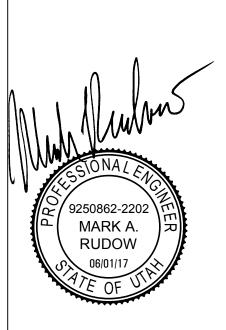
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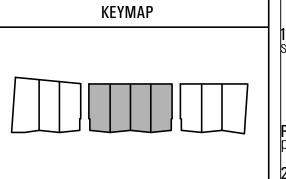
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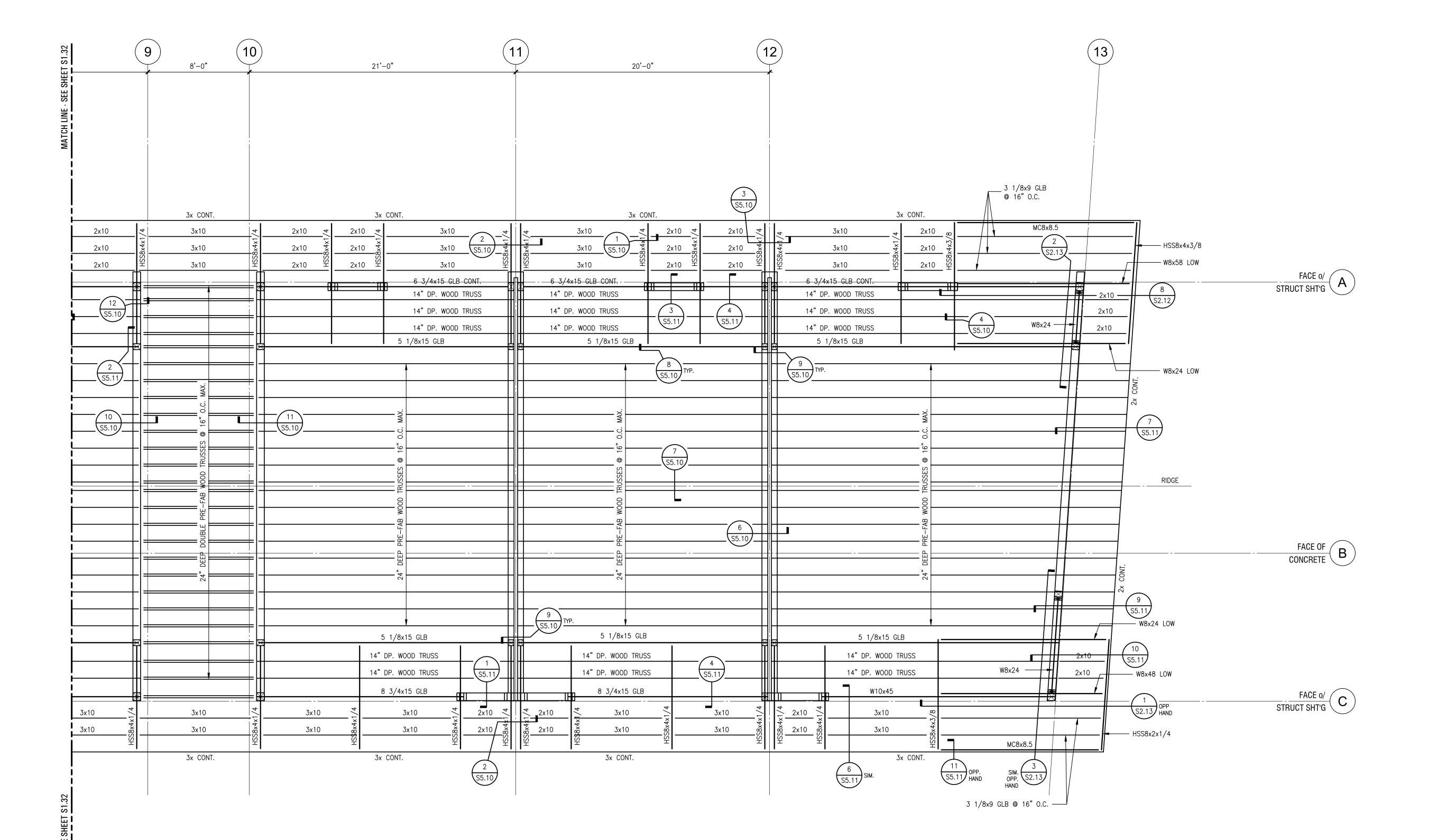
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phoenix, az 85020
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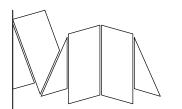
\$1.32 ROOF FRAMING PLAN ROOF LEVEL





ROOF FRAMING PLAN NOTES:

- 1. SEE SHEETS S0.10 & S0.11 FOR: GENERAL STRUCTURAL NOTES TYPICAL TOP PLATE SPLICE DETAIL
- TYP. MECH'L UNIT SUPPORT FRAMING TYPICAL HEADER DETAIL TYPICAL BEAM TO BEAM CONN. TYPICAL BEAM TO POST CONN. G. TYPICAL ROOF PLYWOOD LAYOUT.
- 2. SEE ARCH'L DRAWINGS FOR ALL B.O.D. ROOF ELEVATIONS.
- 3. DENOTES OPENING IN ROOF DECK, COORDINATED SIZE & LOCATION w/ MECH. DRAWINGS. PROVIDE OPENING FRAMING PER DETAILS ON SHEET SO.11.
- 4. — DENOTES WOOD HEADER PER DETAIL 7/S0.11.
- 5. ESTABLISH AND VERIFY ALL OPENINGS & INSERTS FOR MECHANICAL, ELECTRICAL & PLUMBING WITH THE APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.
- 6. HANGING CEILING, DUCTWORK OR OTHER ITEMS FROM THE ROOF SHEATHING IS NOT ALLOWED.



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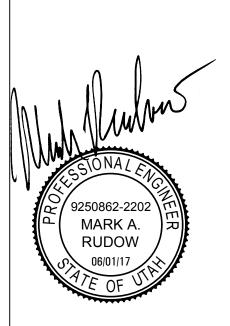
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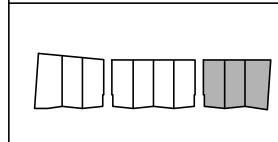
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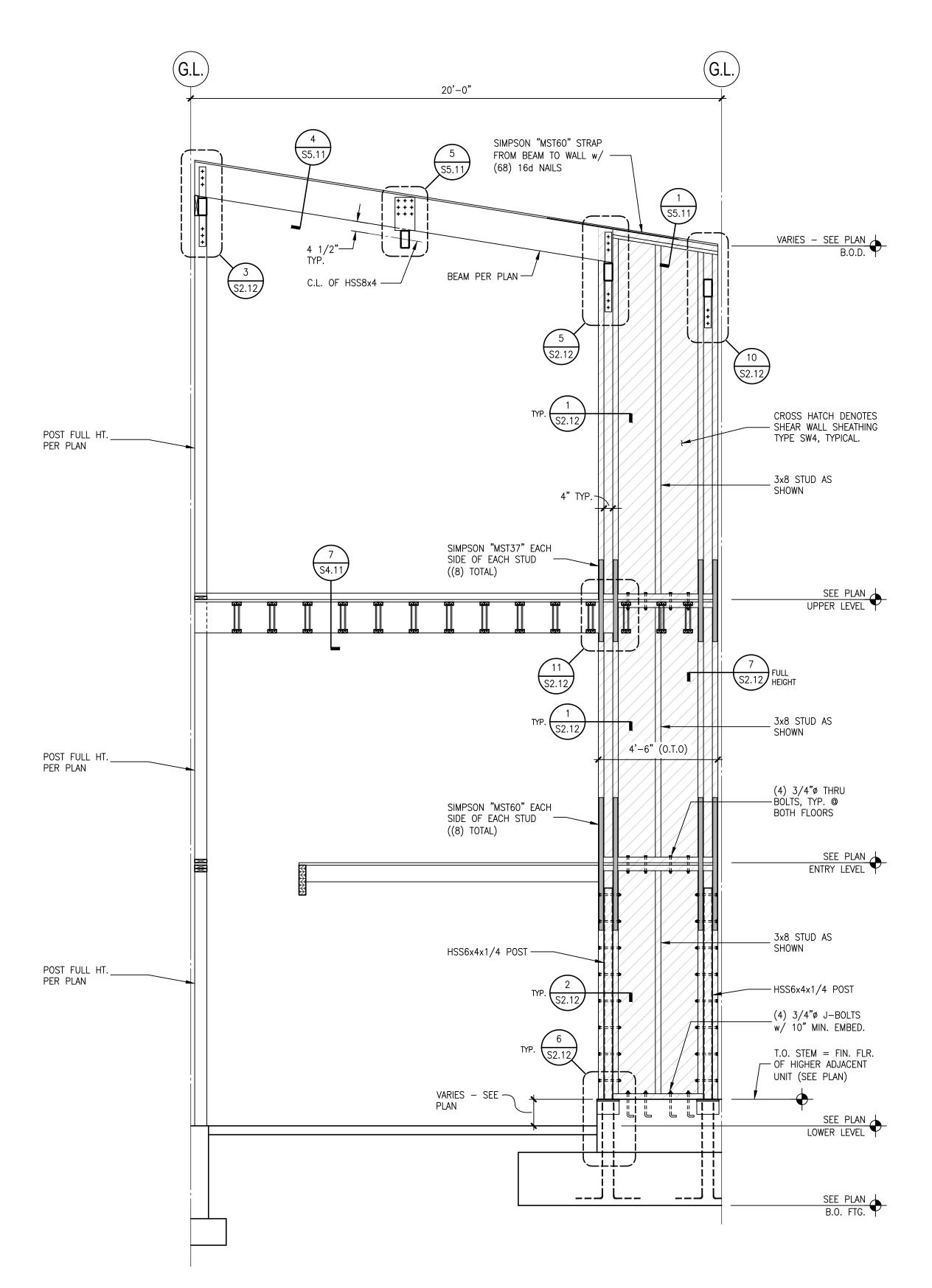
S133
ROOF FRAMING PLAN
ROOF LEVEL



KEYMAP

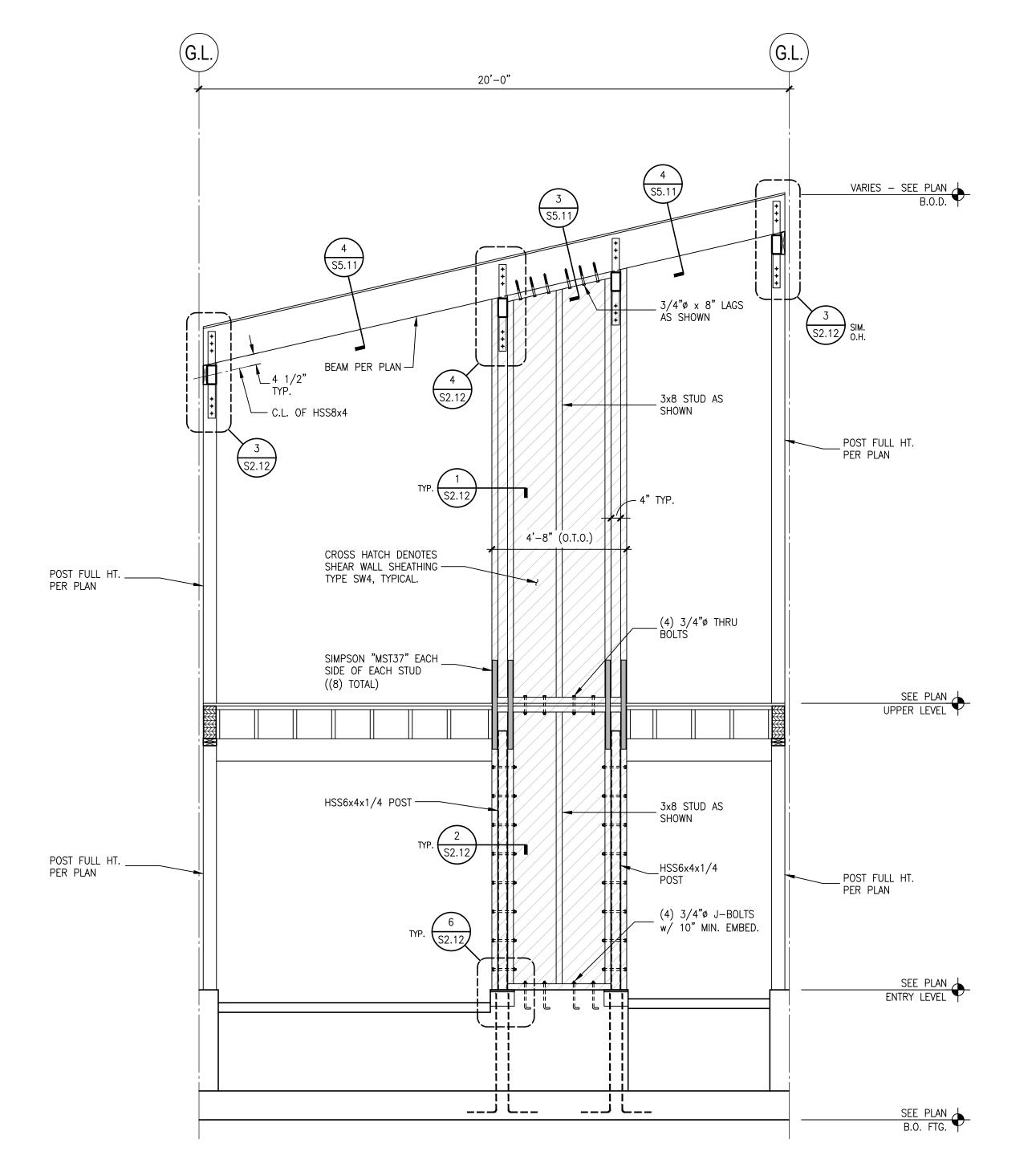
1/4" = 1'-0"

2017.06.01 date



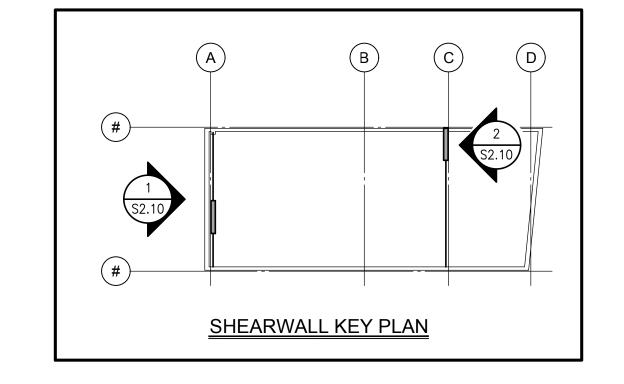
TYPICAL UNIT - SOUTH SHEAR WALL

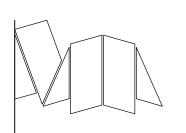
(VIEWED FROM THE SOUTH)



TYPICAL UNIT - NORTH SHEAR WALL

(VIEWED FROM THE NORTH)





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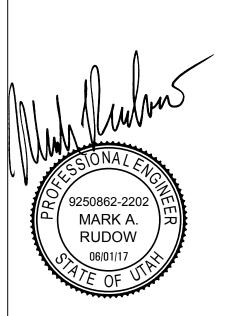
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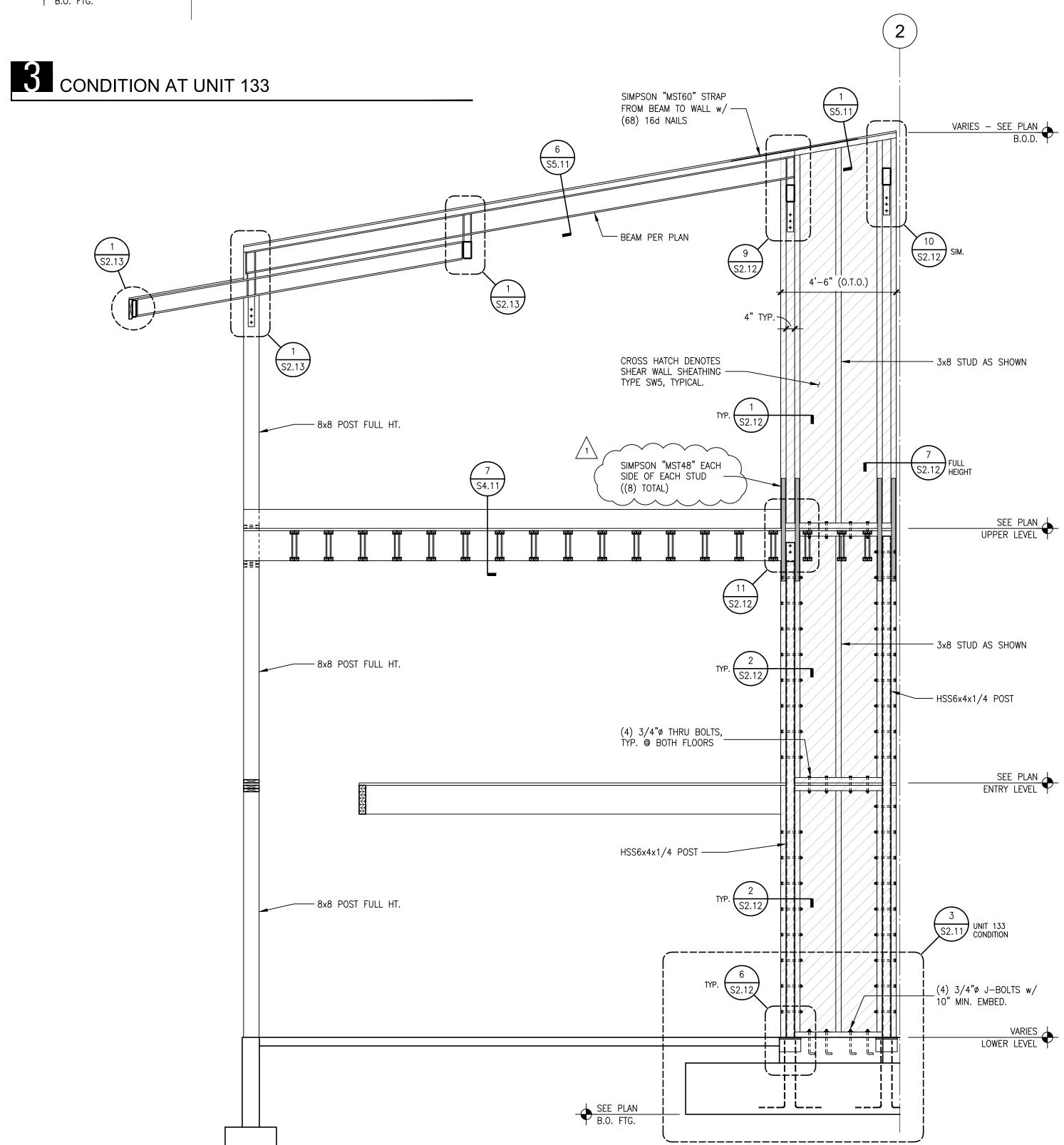


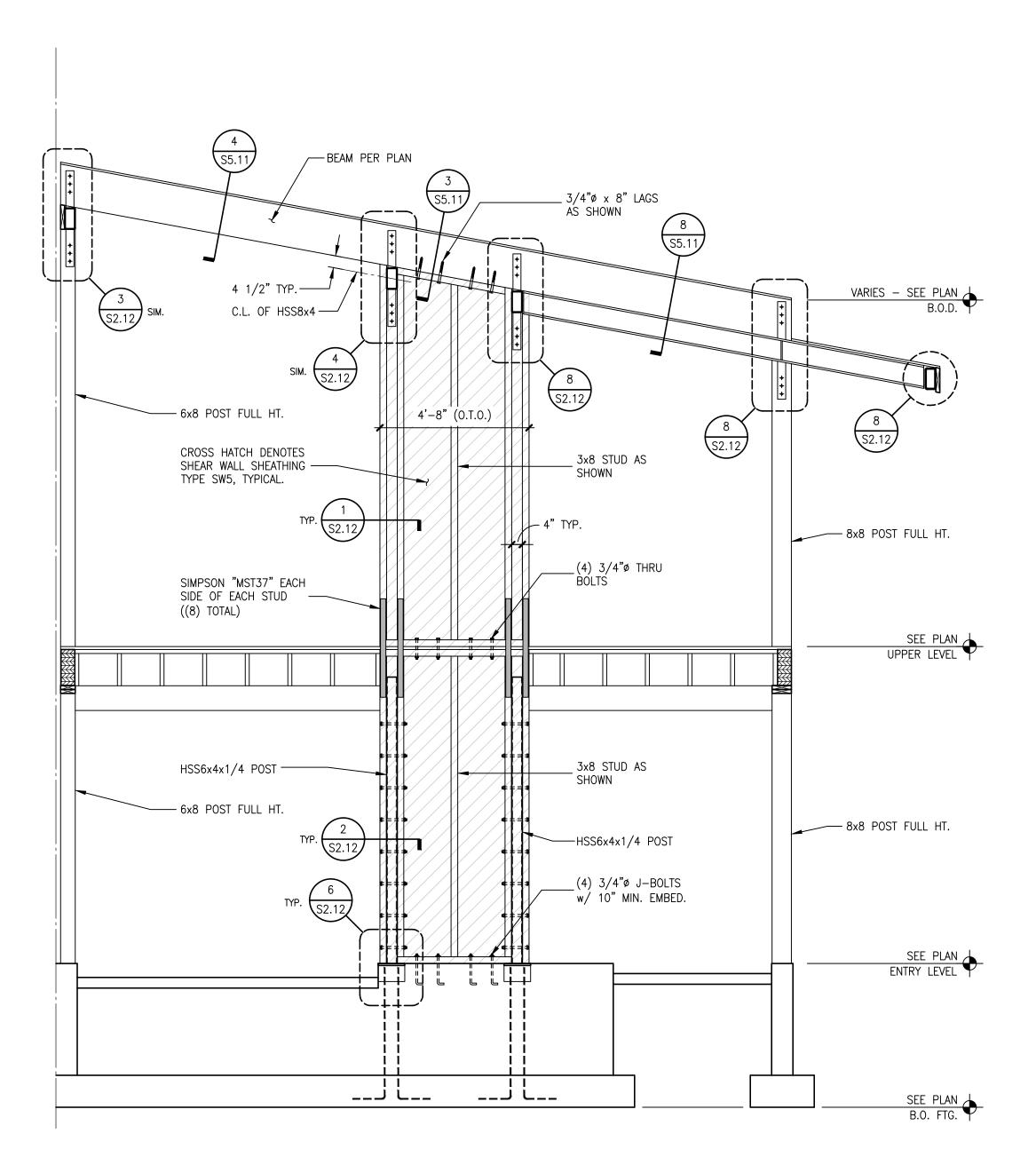
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TYPICAL UNIT SHEAR WALL ELEVATIONS

3/8" = 1'-0"

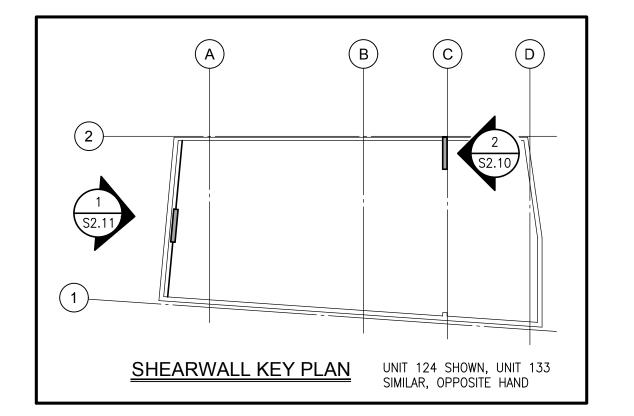
PERMIT SET phase / rev **2017.06.01** date

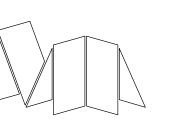






(VIEWED FROM THE NORTH - UNIT 133 SIMILAR, OPPOSITE HAND))





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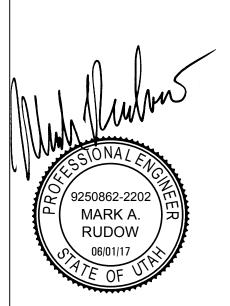
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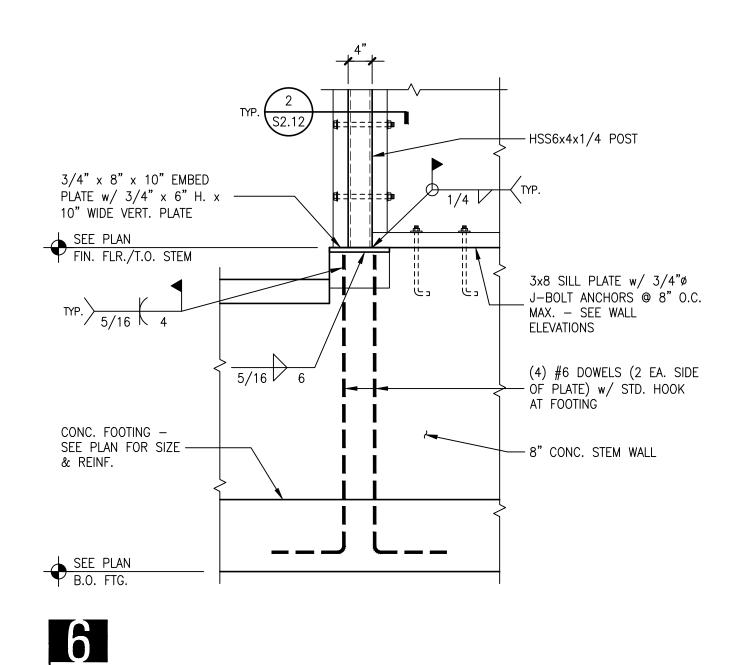
SHEAR WALL ELEVATIONS

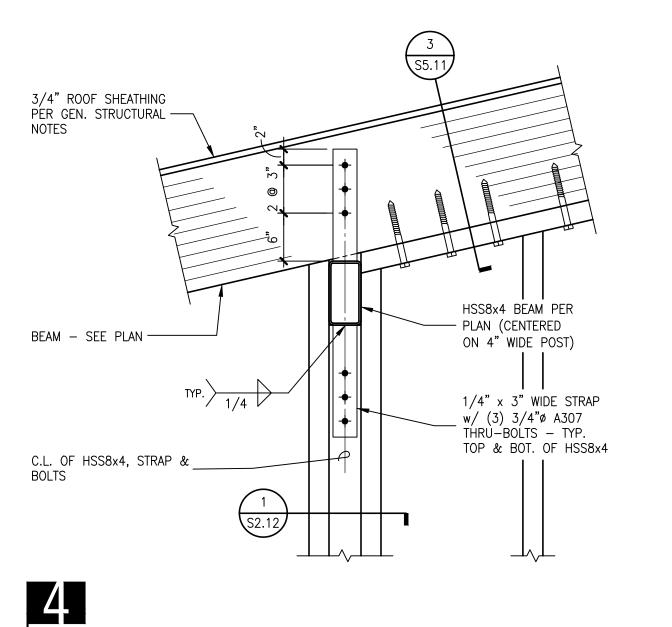
3/8" = 1'-0"

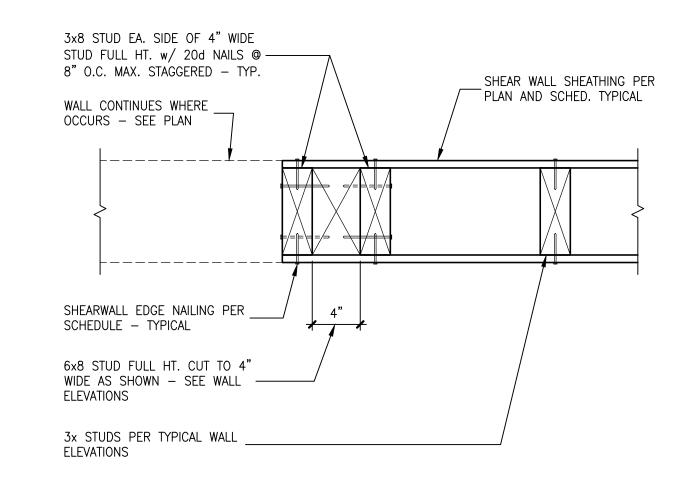
PERMIT SET phase / rev **2017.06.01** date



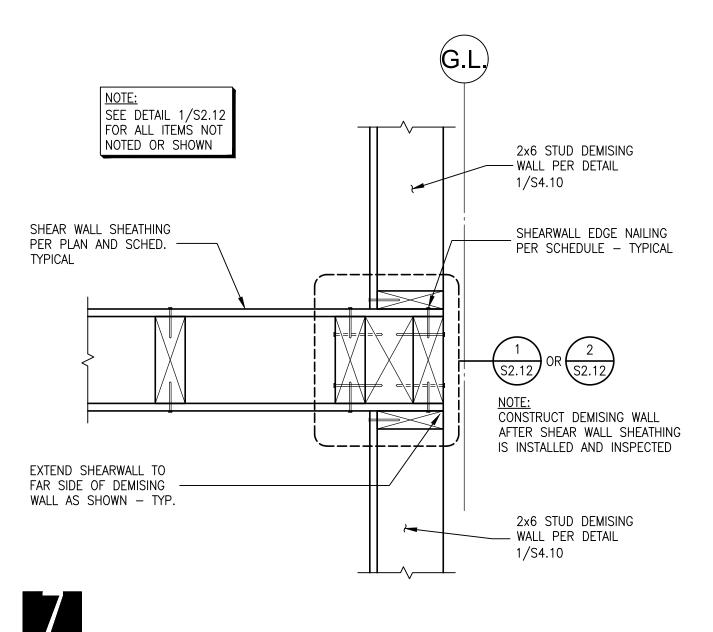
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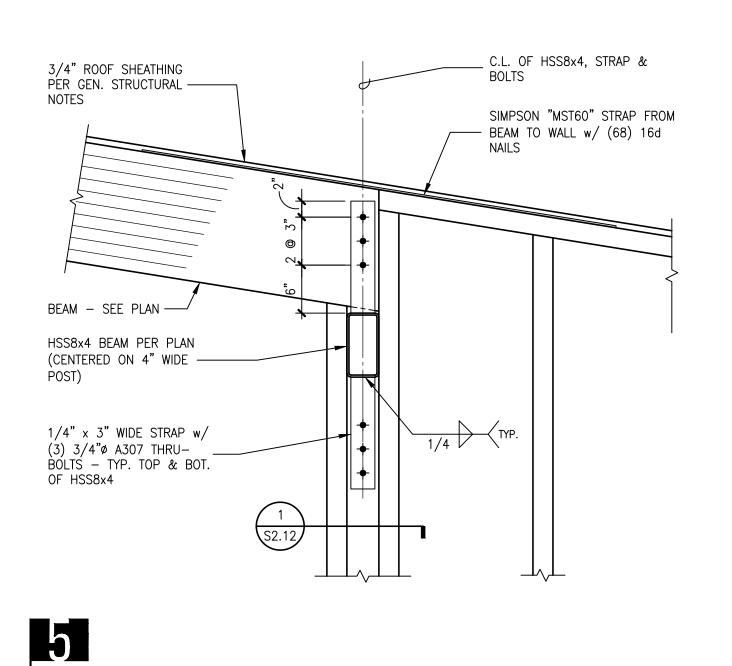


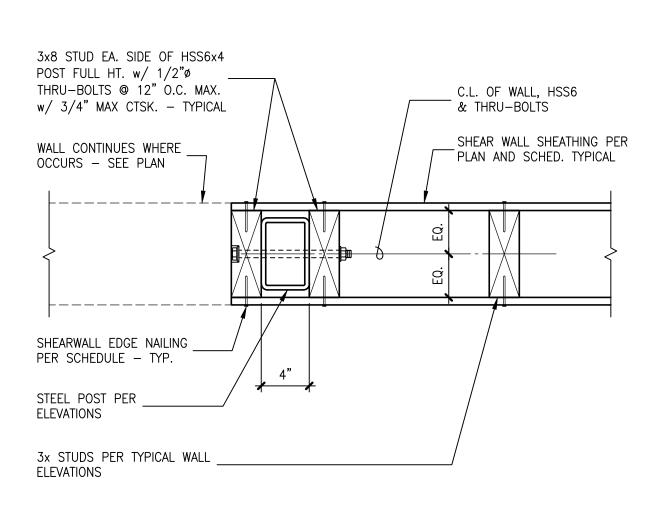




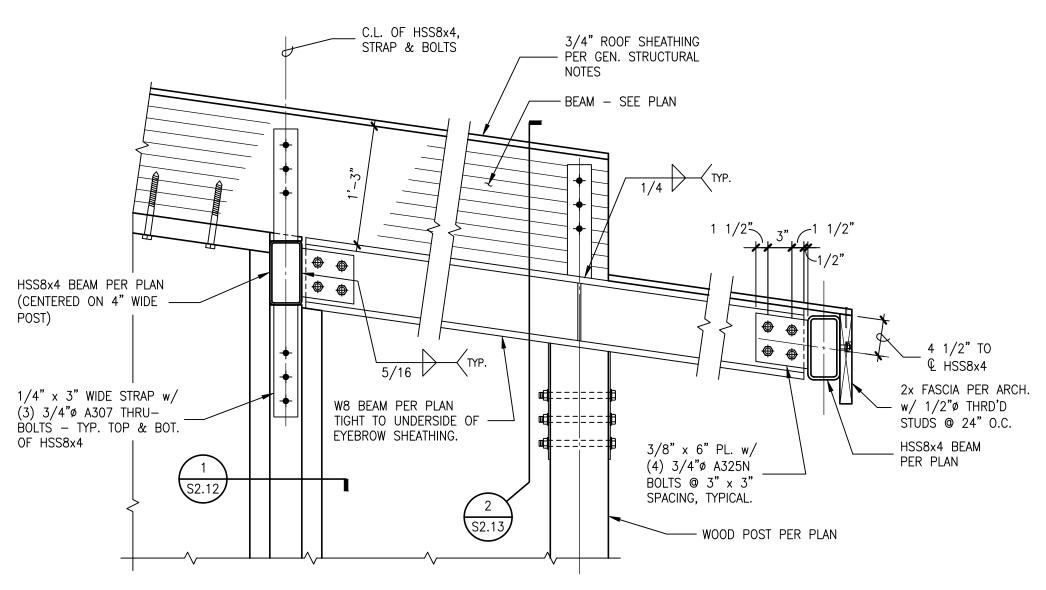
3/4" ROOF SHEATHING PER GEN. STRUCTURAL -C.L. OF HSS8x4, STRAP & BOLTS SEE DETAIL 5/S2.12 FOR ALL ITEMS NOT HSS8x4 BEAM PER PLAN (CENTERED ON 4" WIDE NOTED OR SHOWN 1/4" x 3" WIDE STRAP w/ (3) 3/4"ø A307 THRU-BOLTS PER DETAIL 1/S2.12

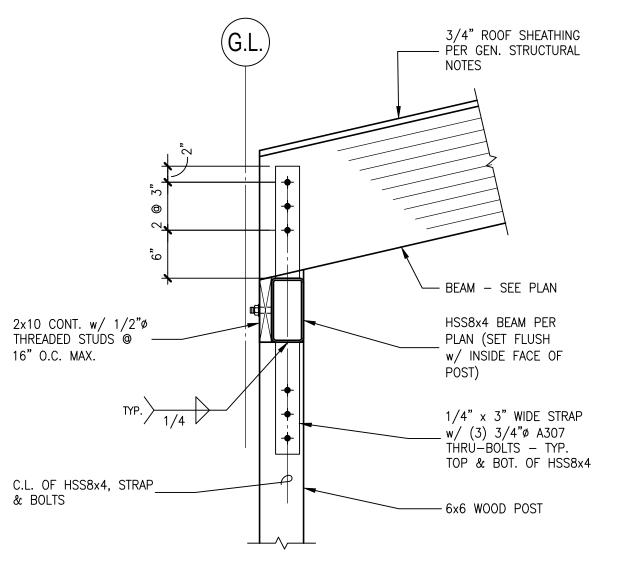






NOTE: STRAPS NOT SHOWN FOR CLARITY. SEE WALL ELEVATION. NOTCH END OF BEAM AS - SHOWN TO ALLOW UPPER WALL TO BE UNINTERRUPTED. 1/4" x 4" BENT U-PLATE - WELDED TO HSS POST w/ (2) 3/4"ø THRU-BOLTS TO JOISTS AND SHEATHING SHOWN DASHED FOR CLARITY





3

8

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sma project no. 16-101

> sma project name POWDERCAT

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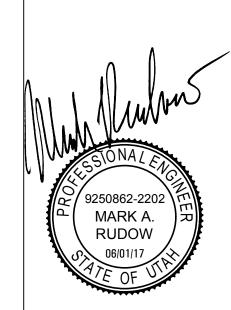
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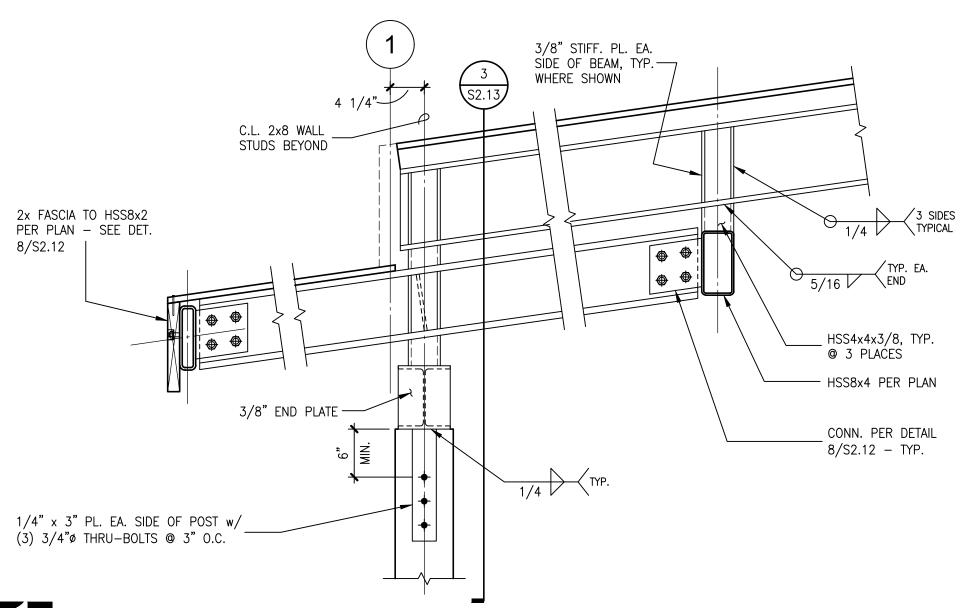
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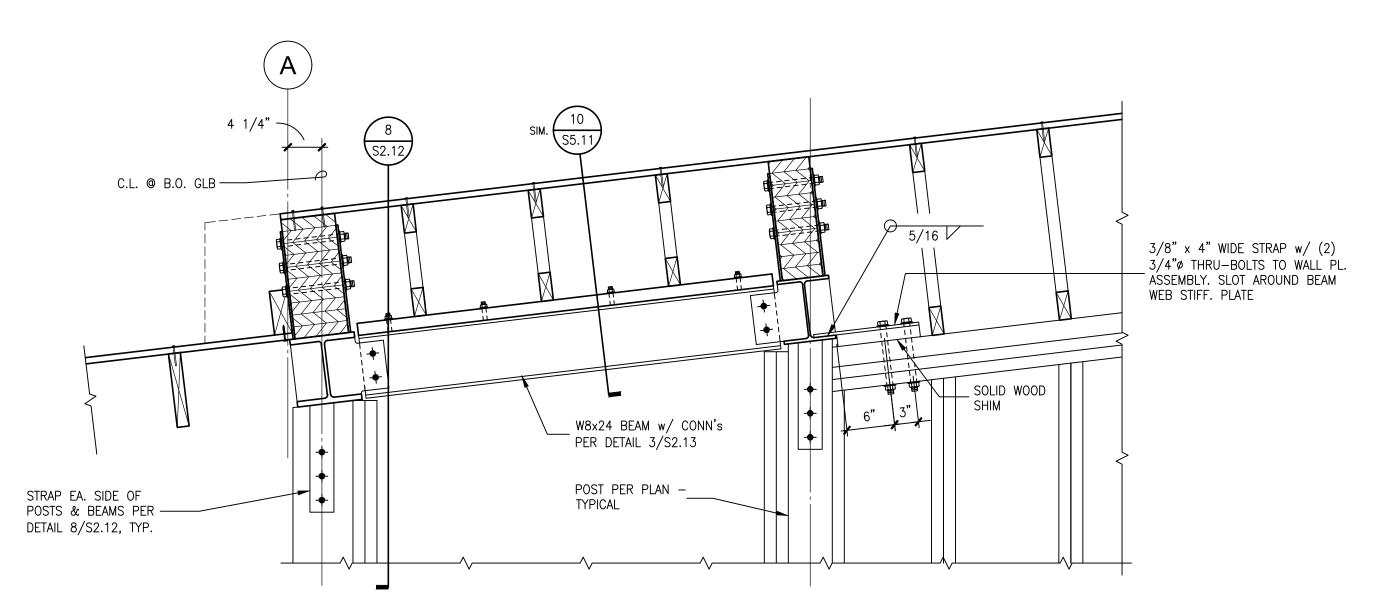
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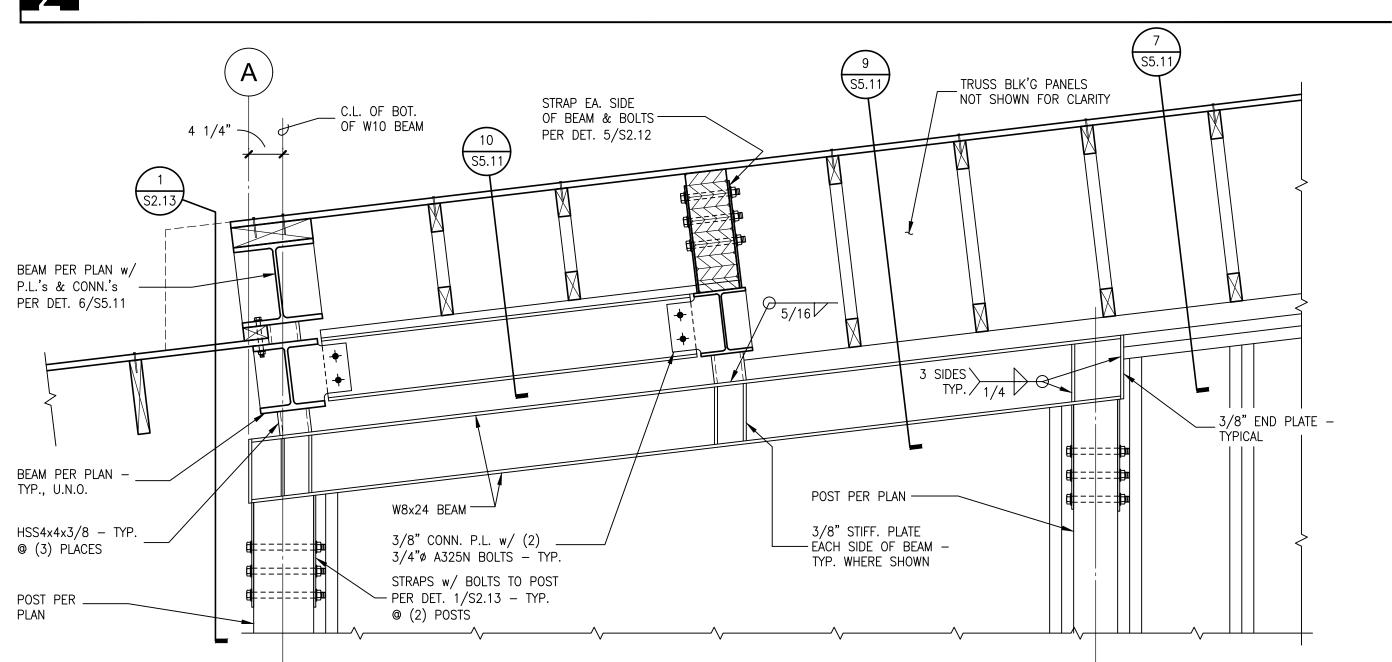


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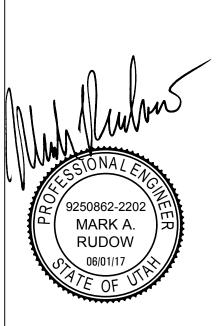
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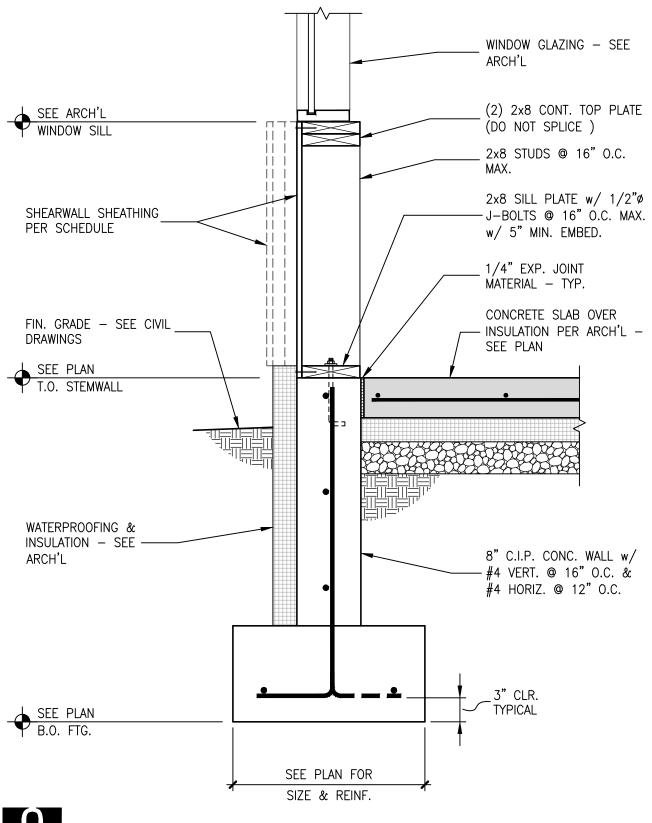


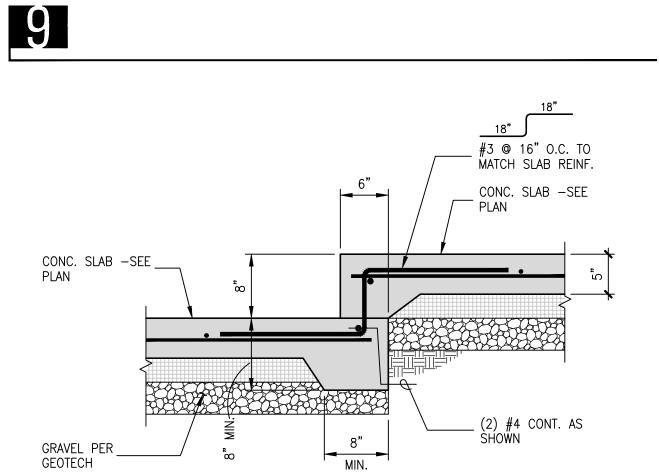
\$2.13SHEAR WALL FRAMING DETAILS

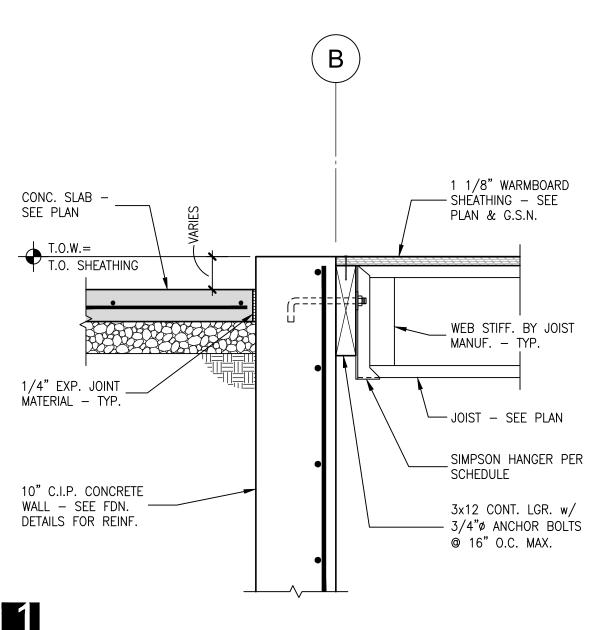
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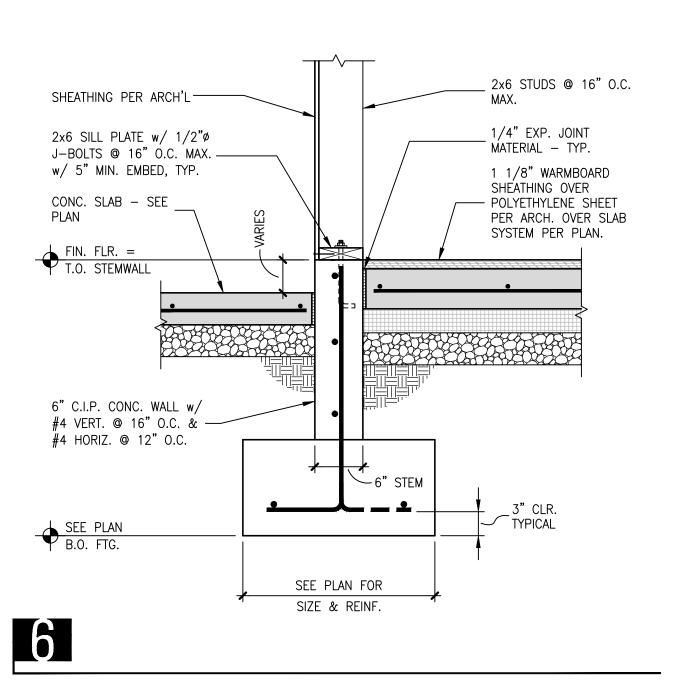
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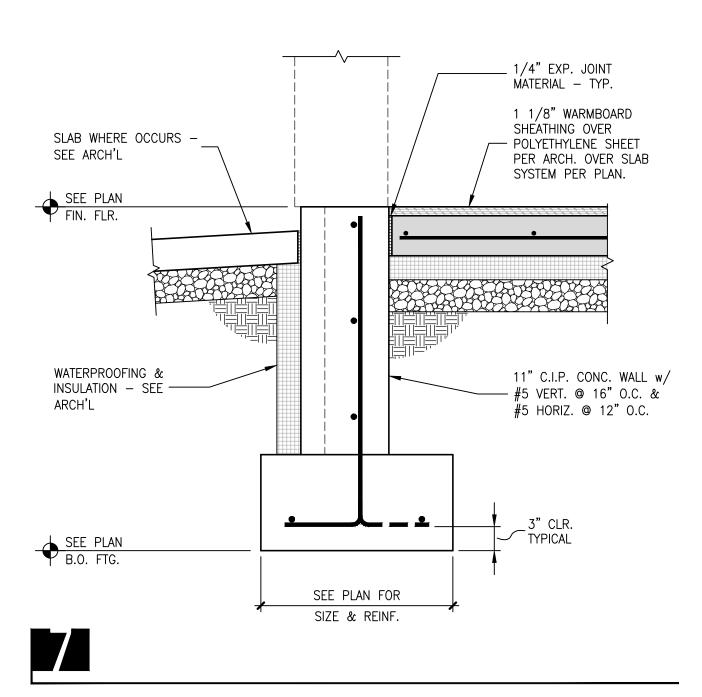
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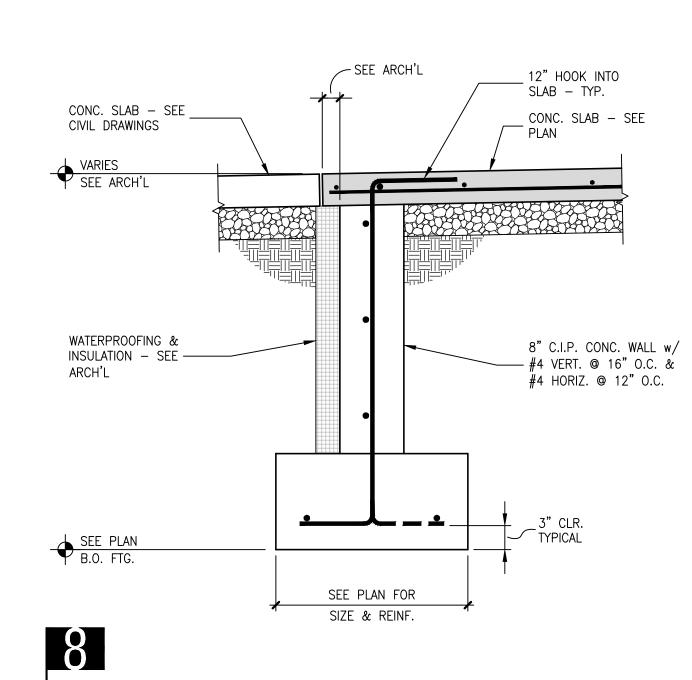


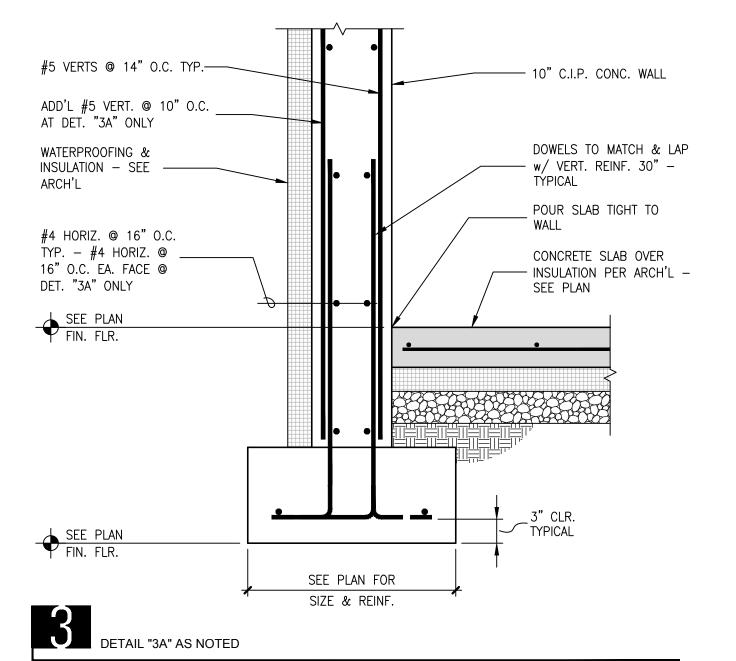


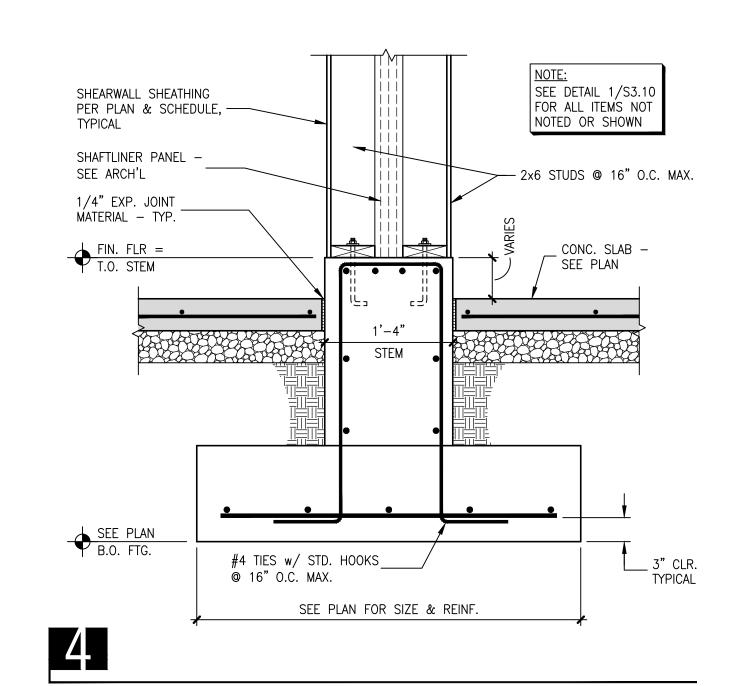


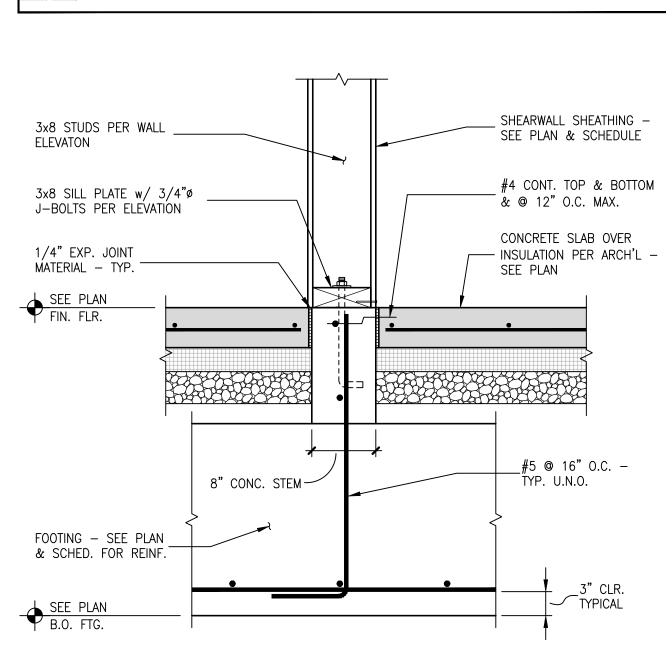












STEM

SEE PLAN FOR SIZE & REINF.

#4 TIES w/ STD. HOOKS___ @ 16" O.C. MAX.

SHEARWALL SHEATHING

PER PLAN & SCHEDULE,

SHAFTLINER PANEL -

2x6 SILL PLATE w/ 1/2"ø

J-BOLTS @ 16" O.C. MAX. -

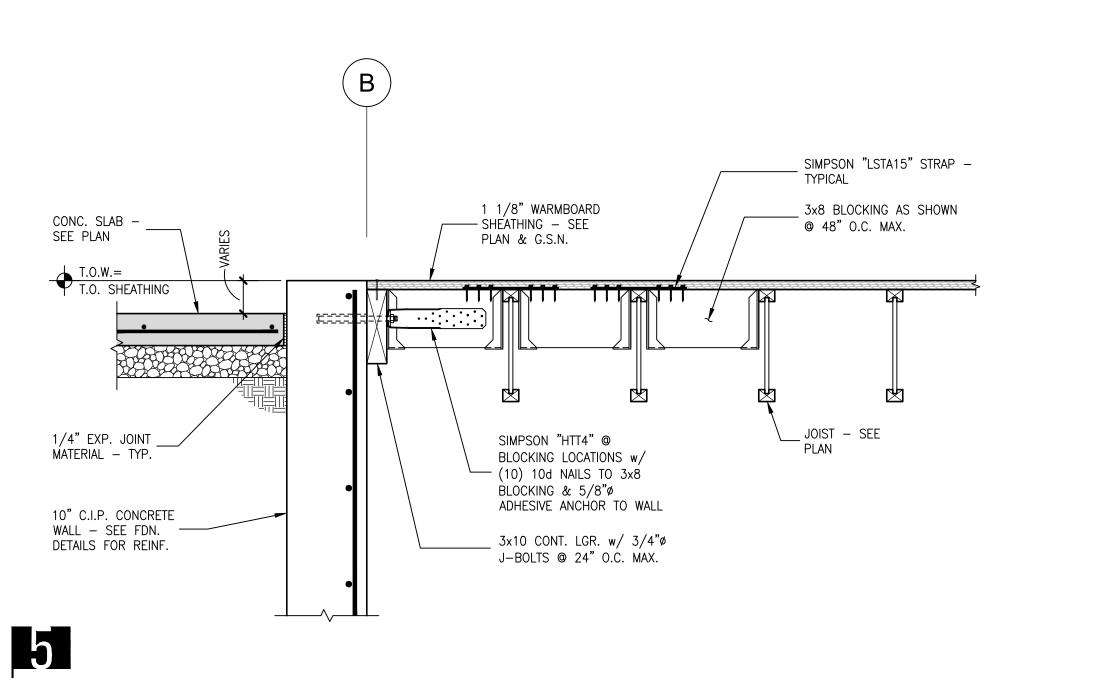
w/ 5" MIN. EMBED, TYP.

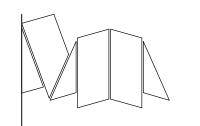
TYPICAL

SEE ARCH'L

SEE PLAN
FIN. FLR.

SEE PLAN
B.O. FTG.





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- 2x6 STUDS @ 16" O.C. MAX.

1/4" EXP. JOINT

MATERIAL - TYP.

SEE PLAN

— (4) #5 CONT. @ TOP

OF STEM AS SHOWN

CONCRETE SLAB OVER

- INSULATION PER ARCH'L -

#5 @ 12" O.C. ËA. FACE

_ 3" CLR.

TYPICAL

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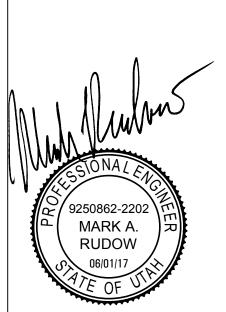
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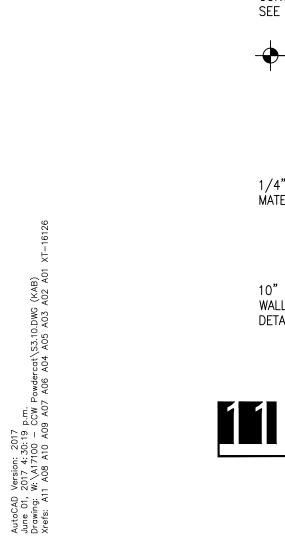
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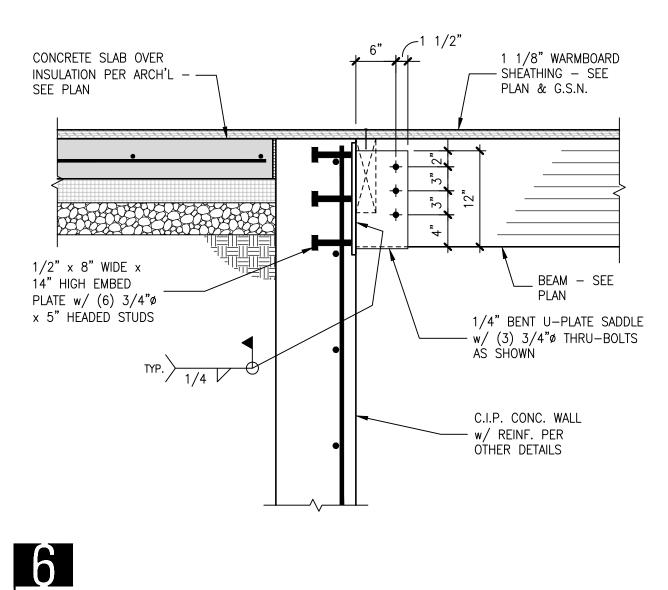
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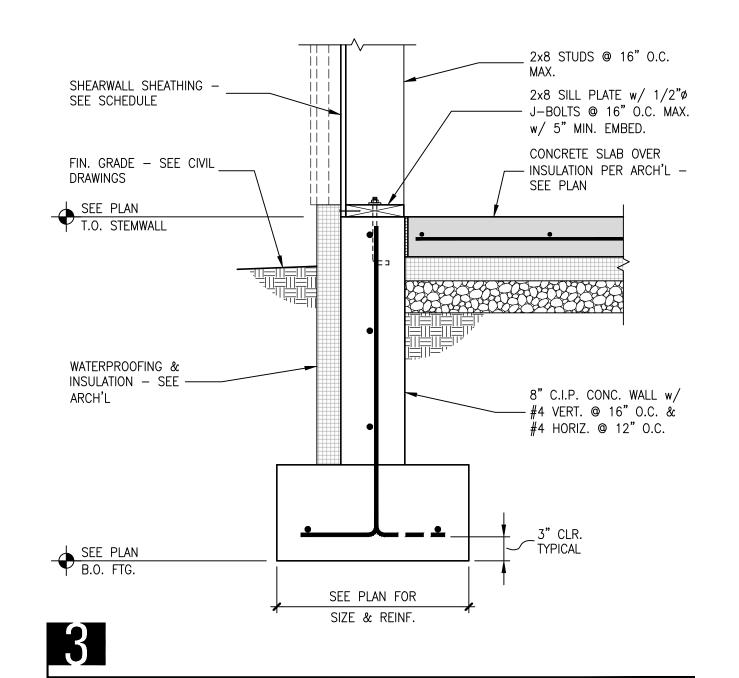
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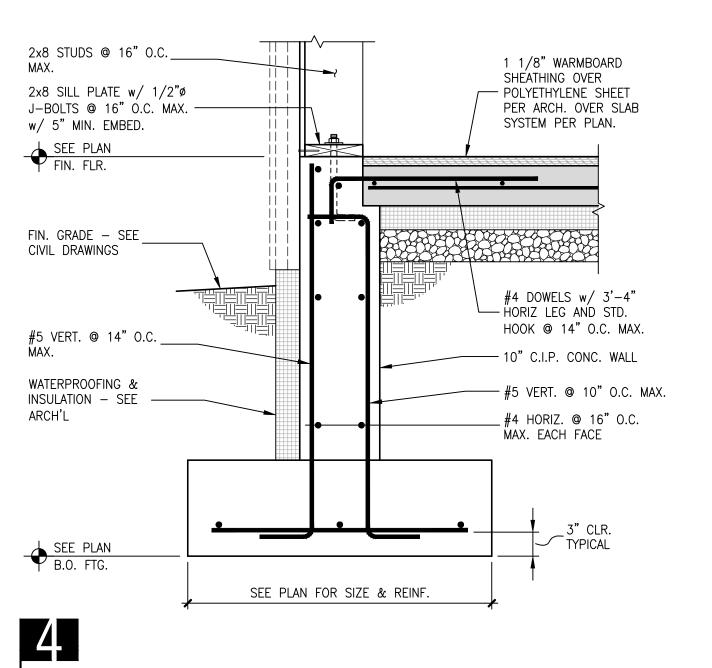
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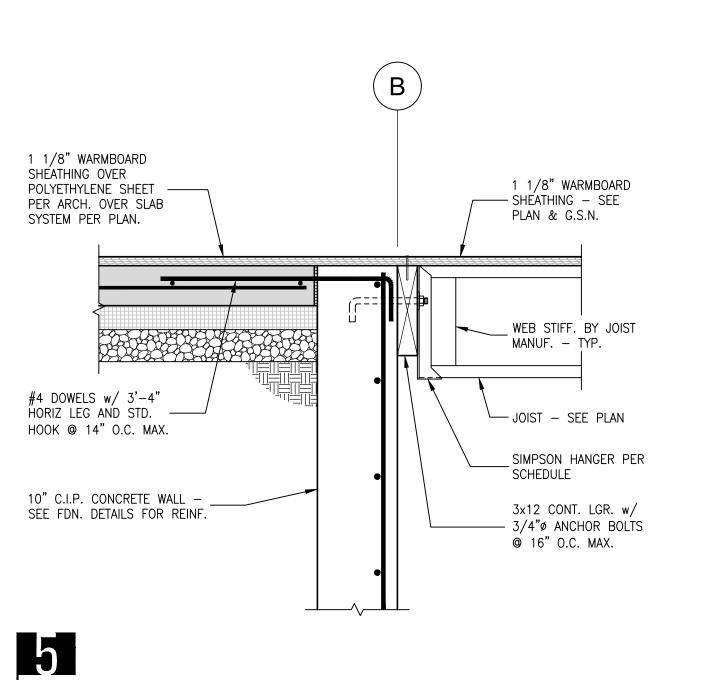


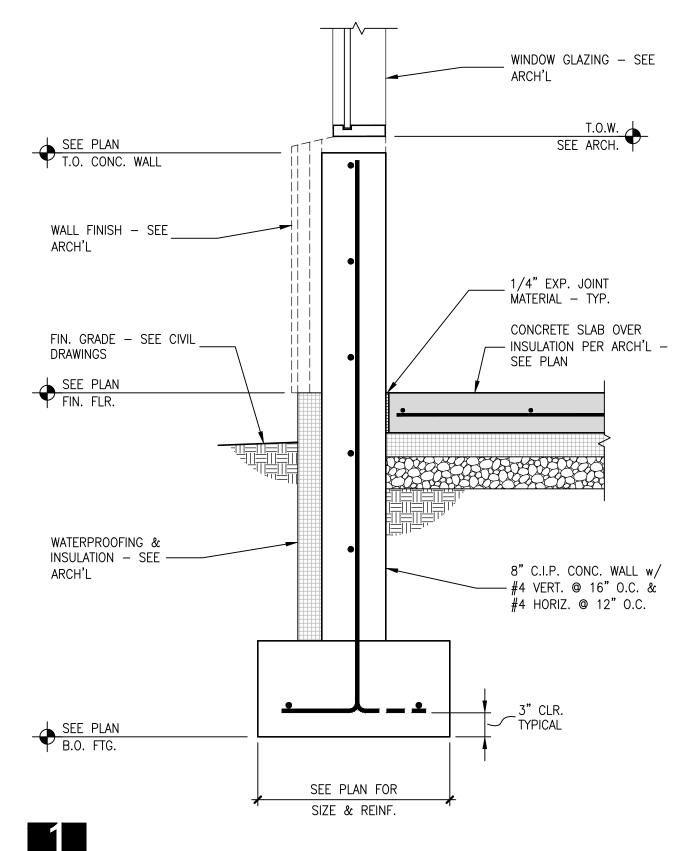
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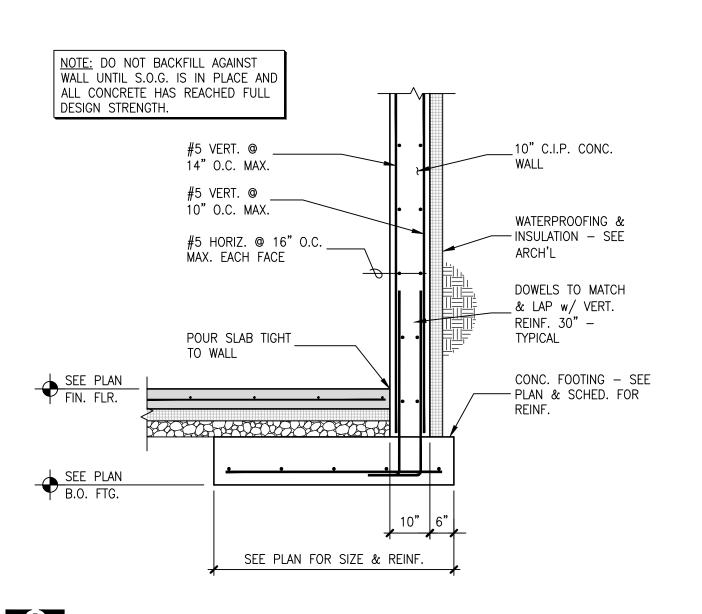












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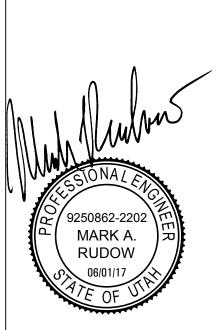
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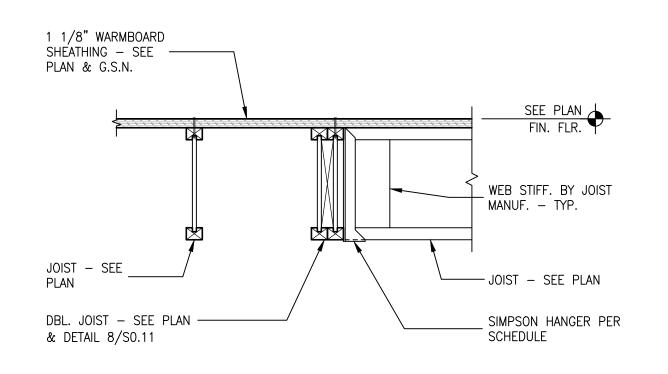


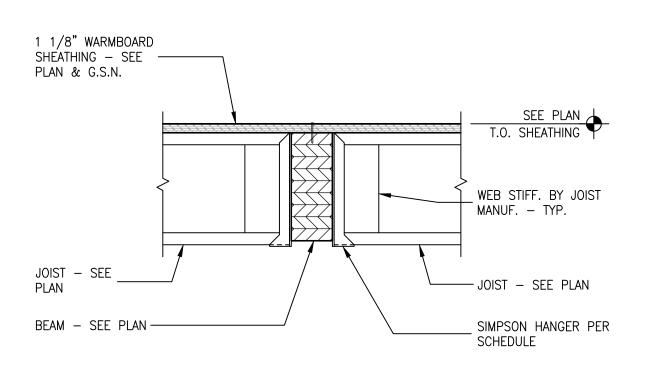
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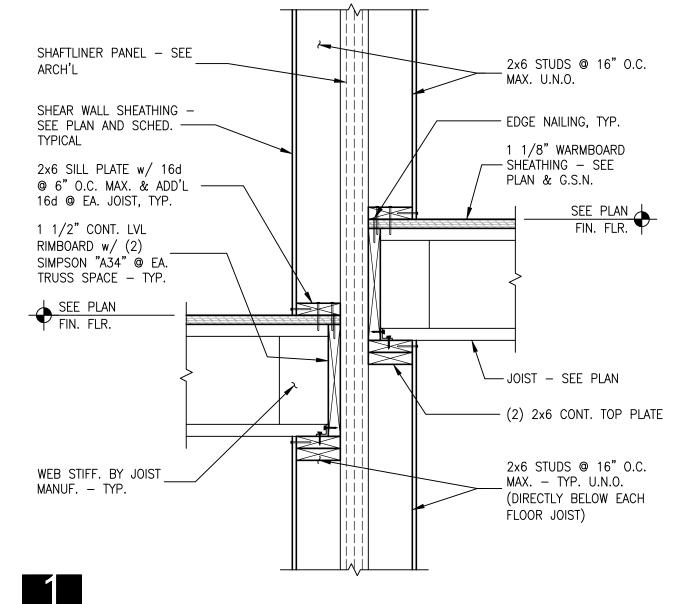
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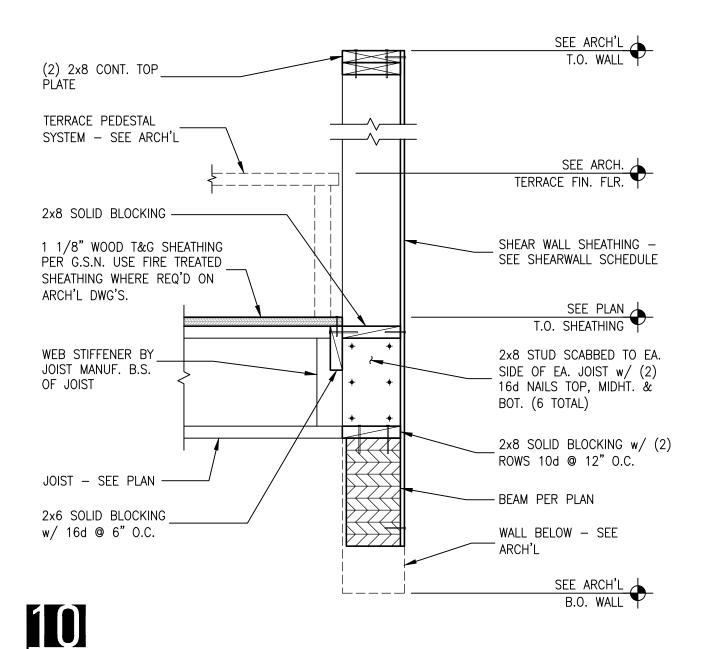


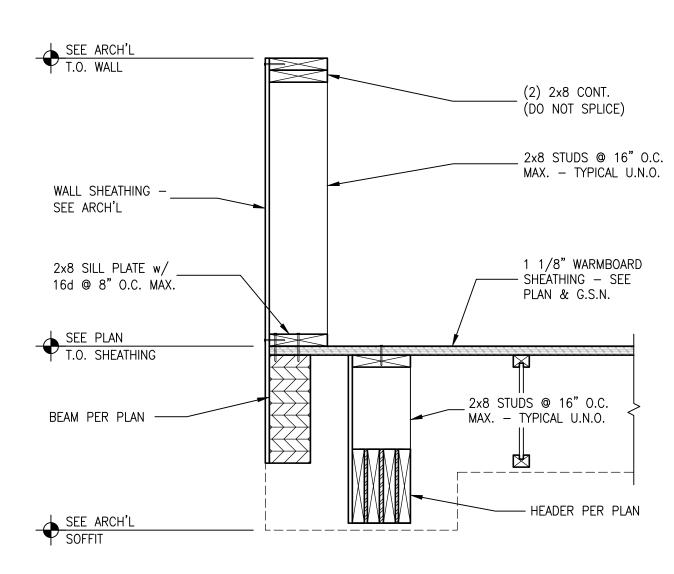
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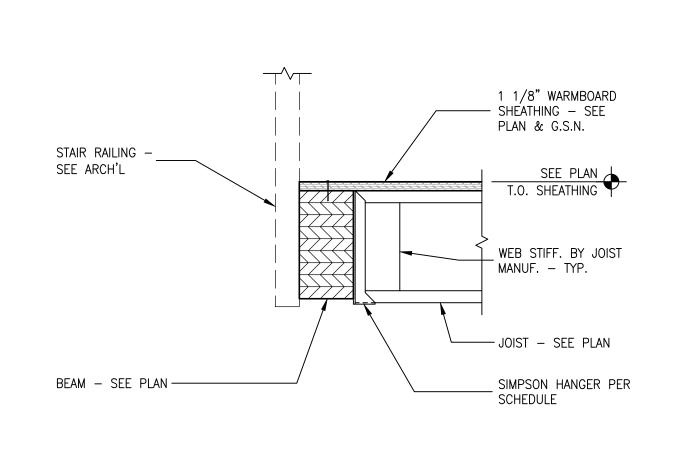
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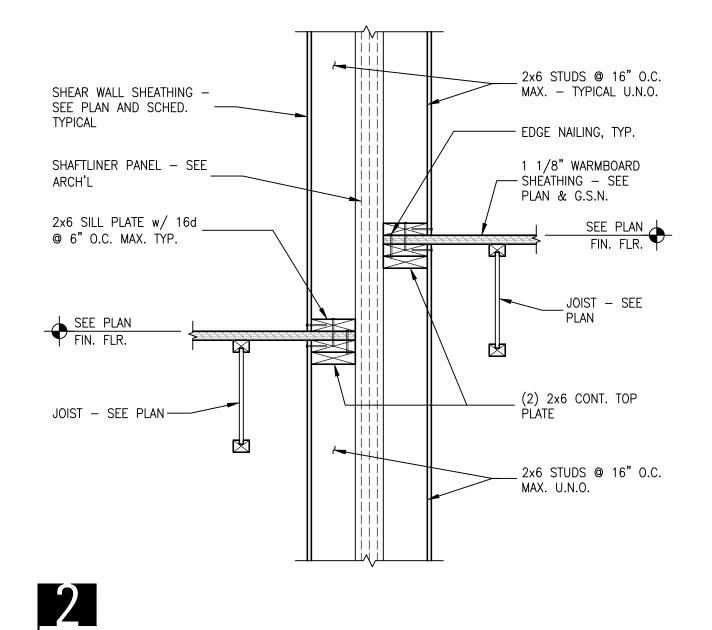


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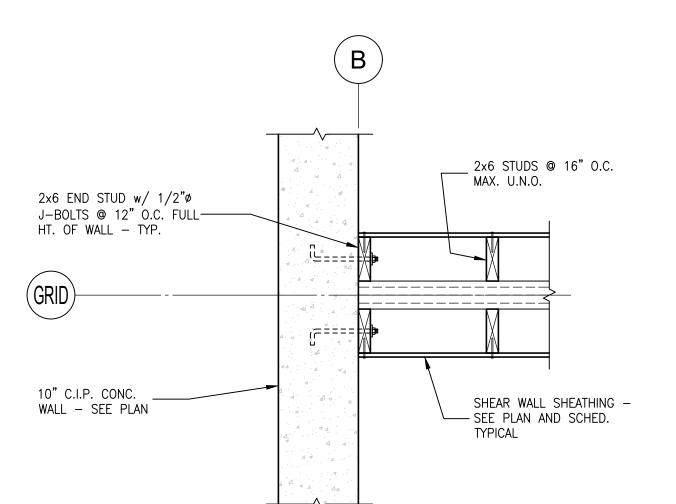


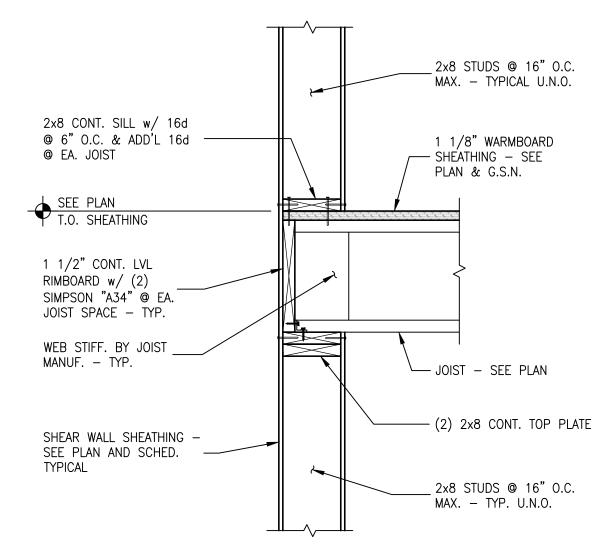


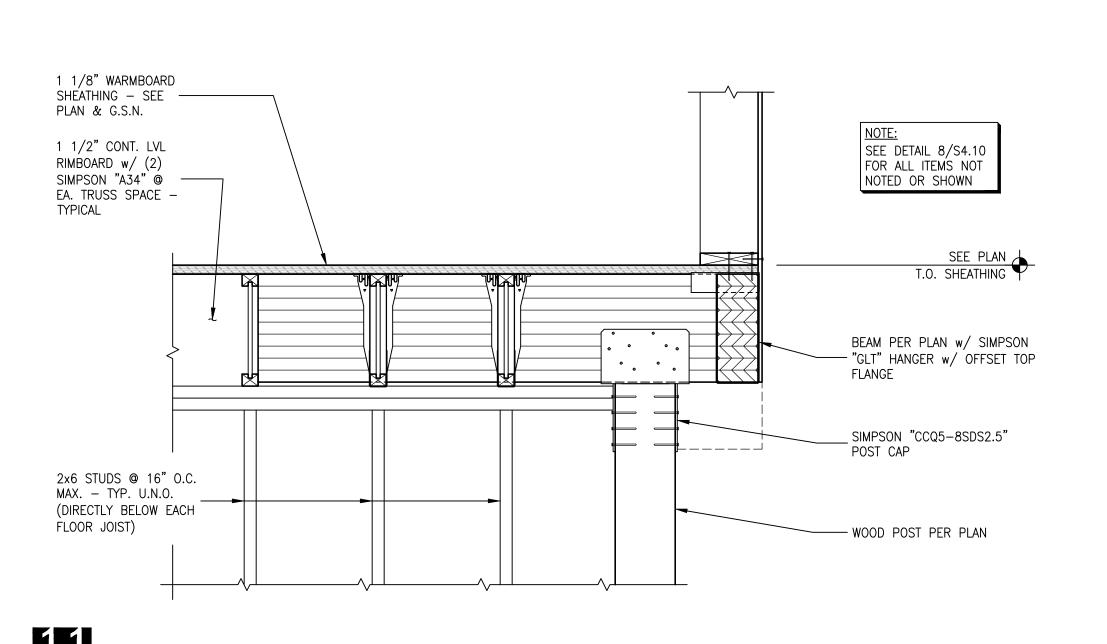




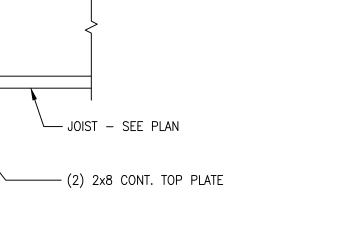
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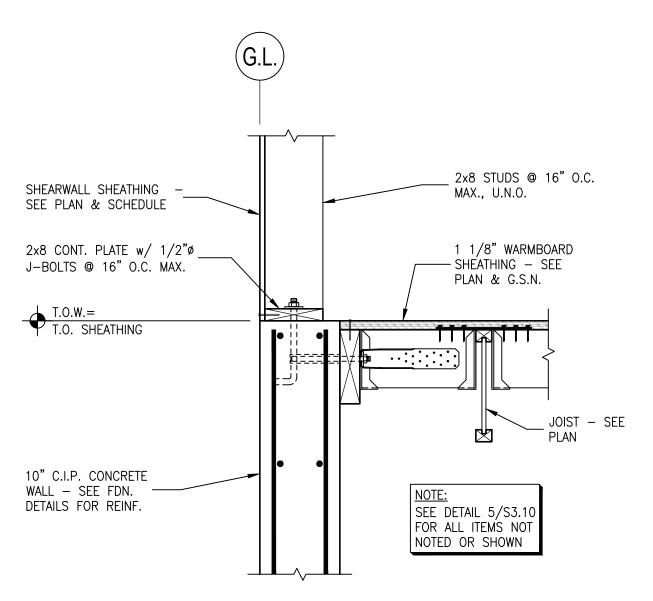
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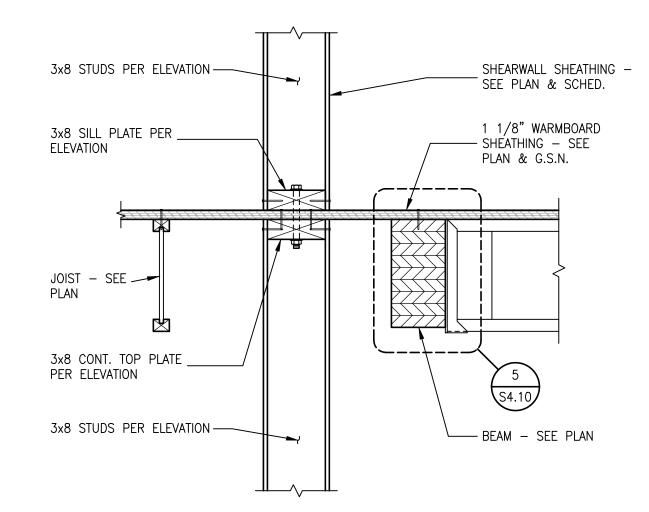
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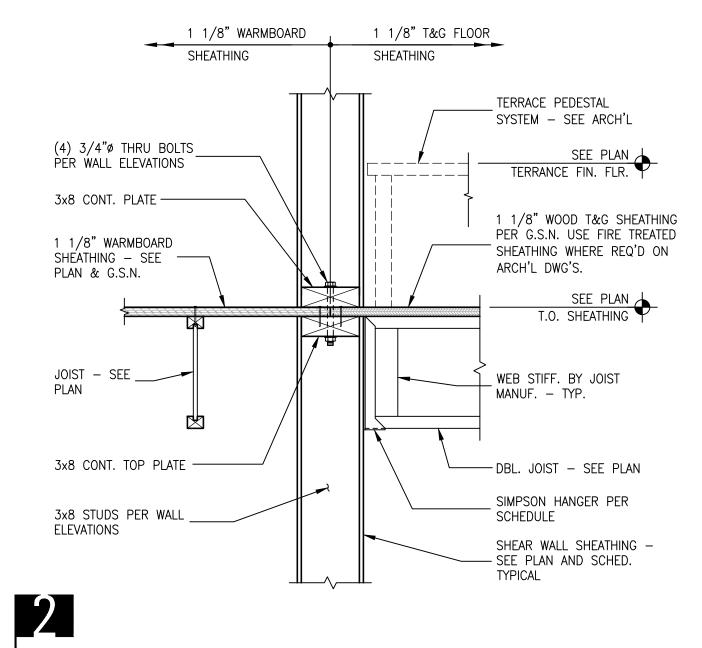
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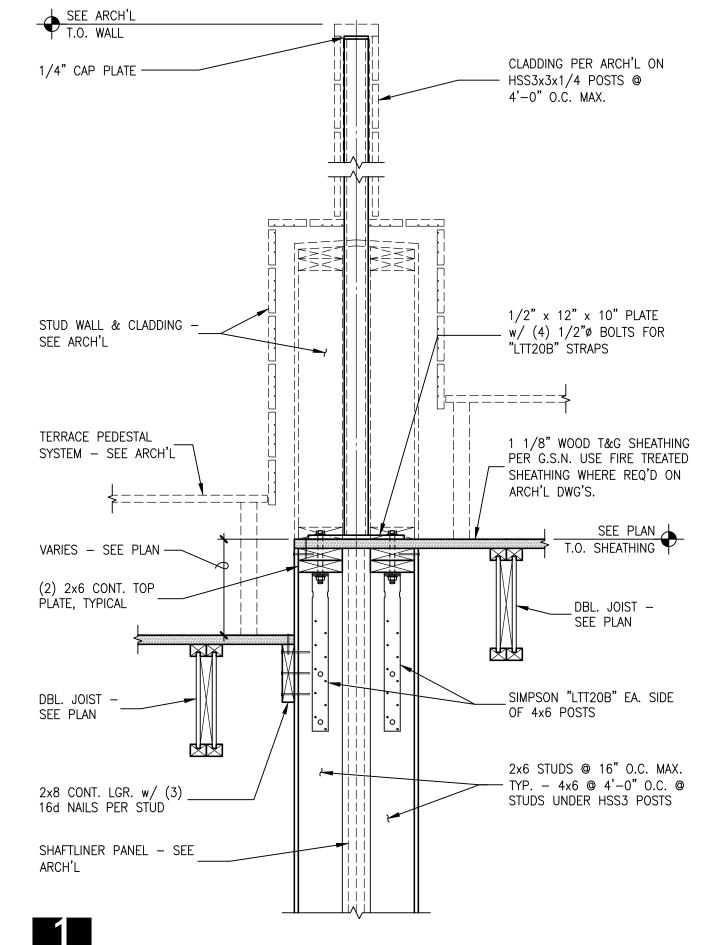
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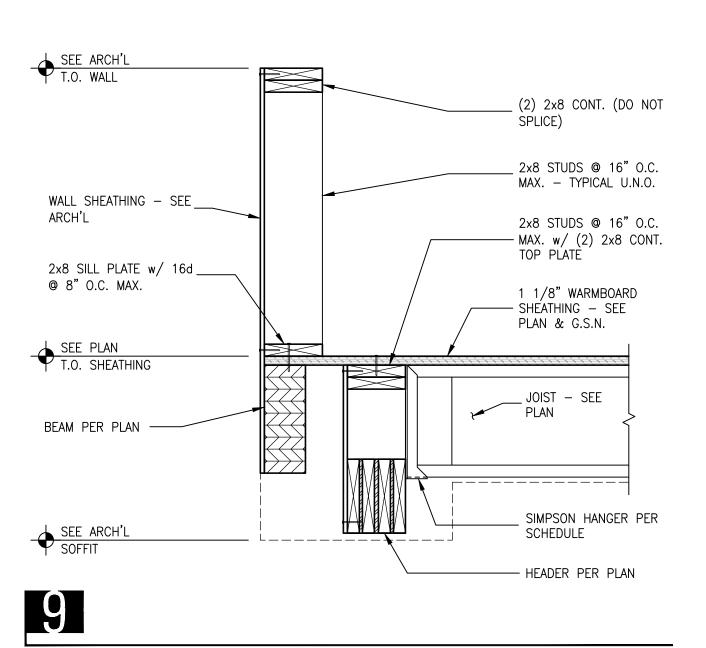
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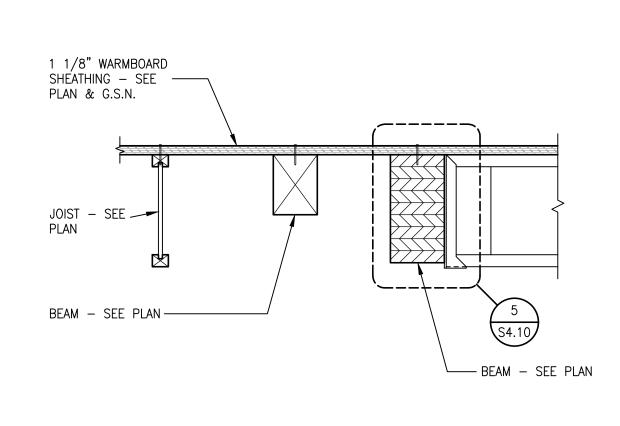


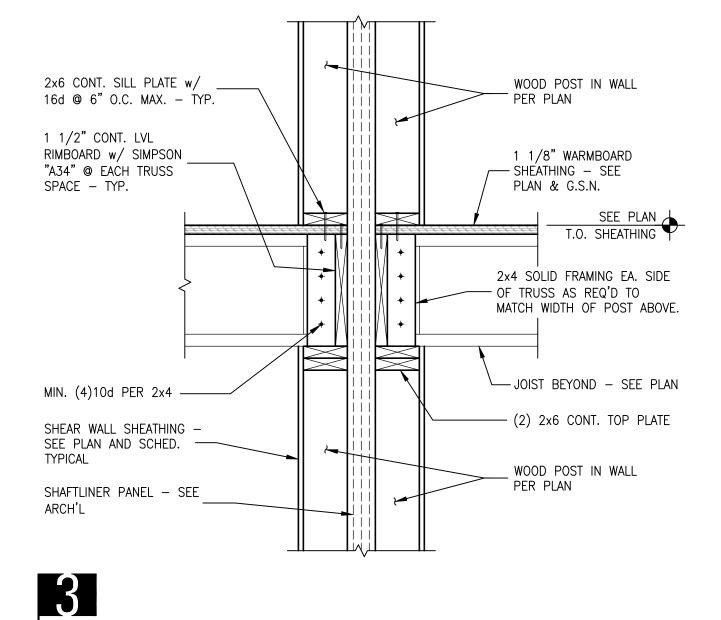












- 2x8 CONT. TOP PLATE

TERRACE FLOORING - _

1 1/8" WOOD T&G SHEATHING PER G.S.N. USE FIRE TREATED

SHEATHING WHERE REQ'D ON

-----_______

SIMPSON "LSTA15" STRAP -

TYPICAL

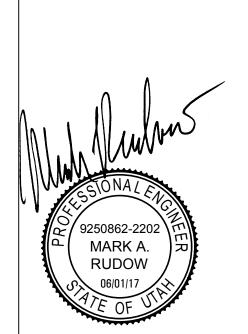
3x8 BLOCKING @ 4'-0" O.C.

_ DBL. JOIST - SEE

SEE ARCH'L

ARCH'L DWG'S.





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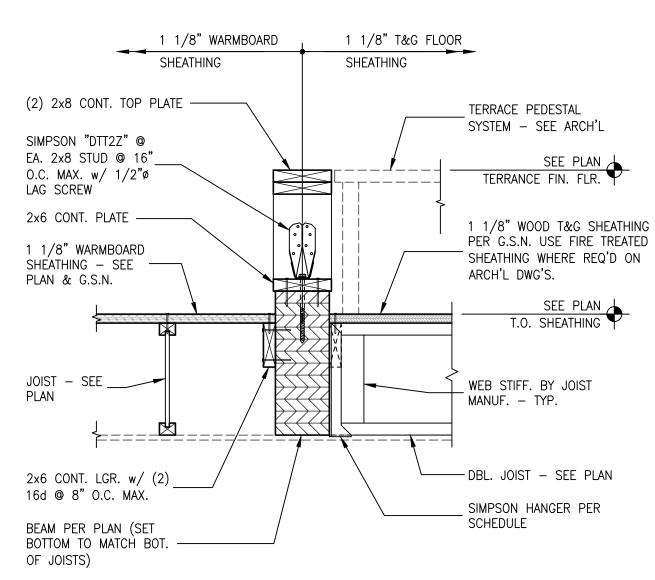
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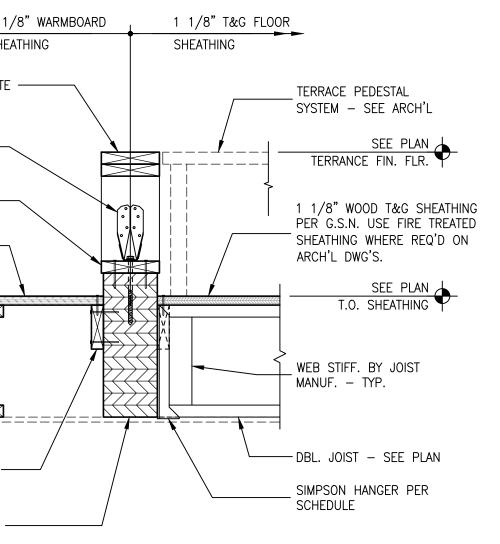
2017.06.01 date

SHEAR WALL SHEATHING BEAM BEYOND AT EACH PER PLAN & SCHEDULE EDGE OF STAIR OPENING -ON 2x6 @ 16" O.C. MAX., WITH SIMPSON "H2.5A" AS SHOWN, TYP. BOTTOM OF TYP.
FLOOR TRUSS _ STAIR EA. SIDE WHERE OCCURS — SEE PLAN (4) 2x6 PLATE CONT. ÀCROSS FULL LENGTH OF STAIR OPENING. FASTEN SHEAR WALL SHEATHING LAMS TOGETHER WITH 10d PER PLAN & SCHEDULE @ 12" O.C. MAX., TYP. ON 2x6 @ 16" O.C. MAX.,



SEE ARCH T.O. WALL SEE ARCH
TERRACE FIN. FLR. SHEAR WALL SHEATHING PER PLAN AND SCHED. — TYPICAL SEE PLAN
T.O. SHEATHING 2x8 SOLID BLOCKING -2x8 CONT. LGR. w/ (3) 16d NAILS TO EA. STUD,— TYPICAL 2x8 STUDS @ 16" O.C.

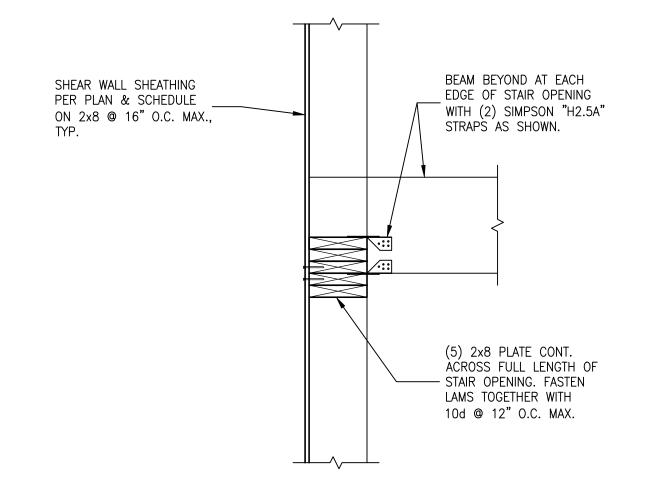
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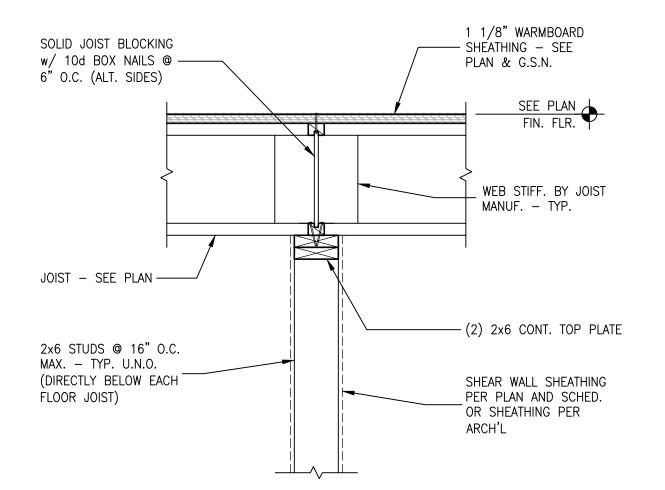


6

5







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ACCESSIBILITY FIRE

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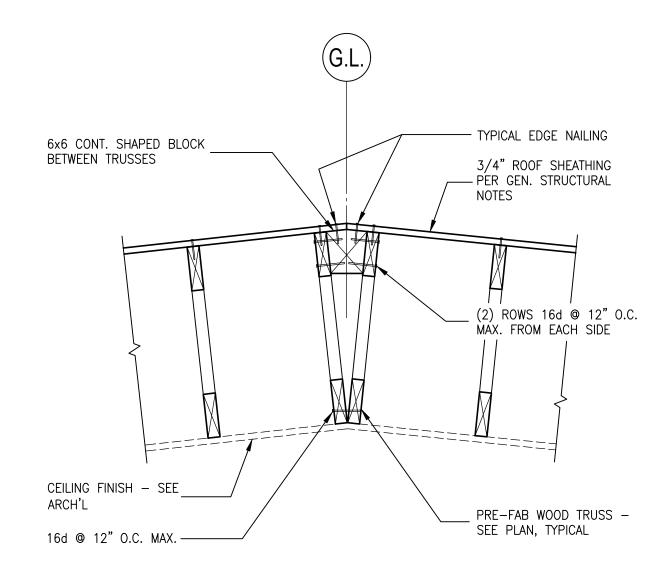
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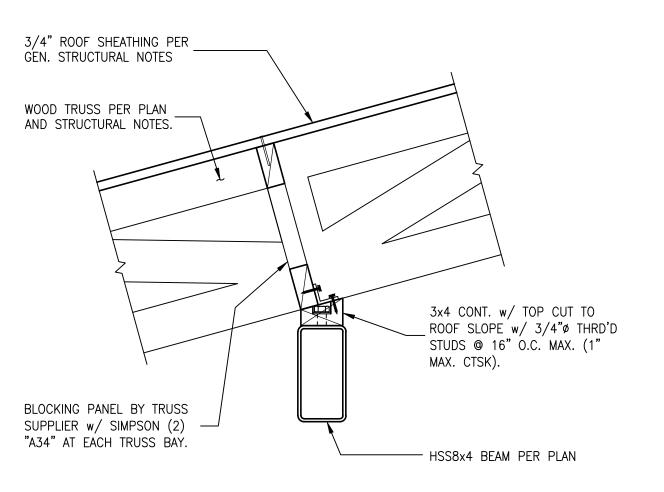
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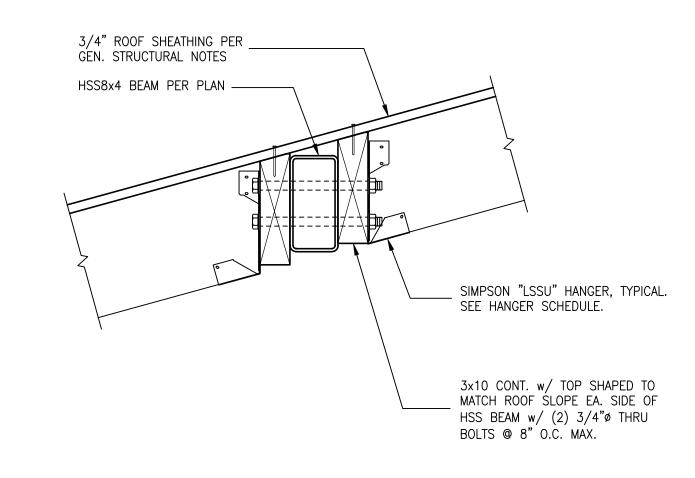
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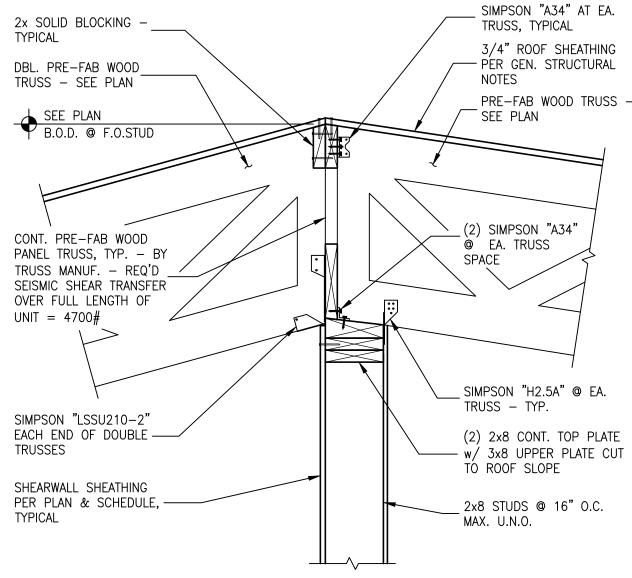


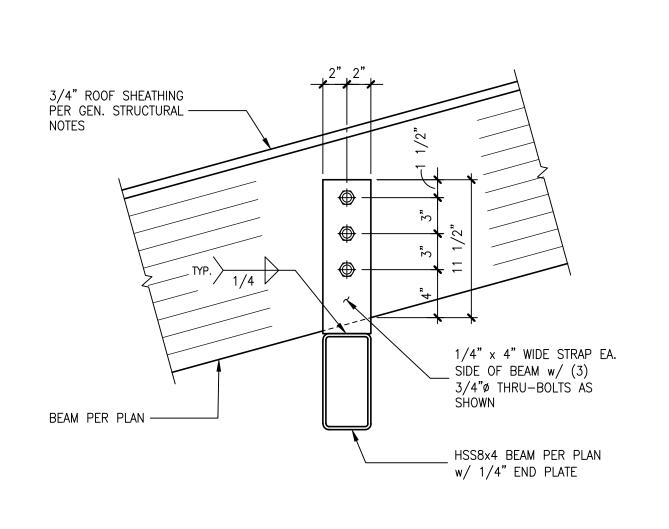


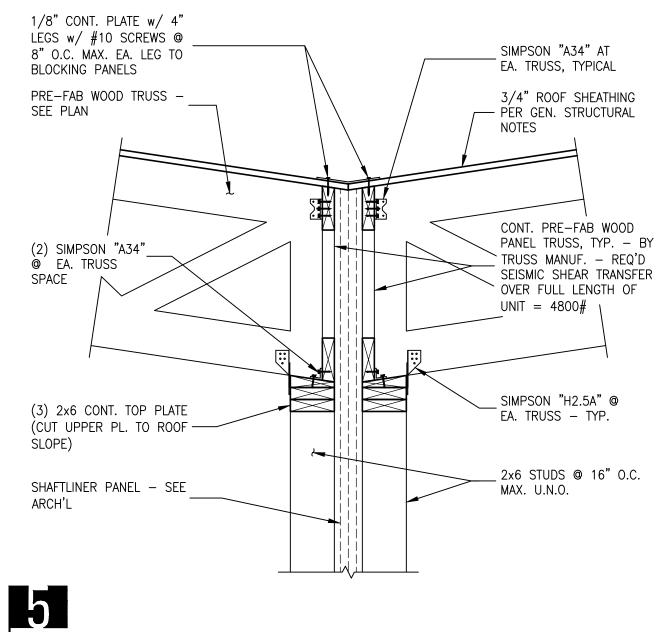


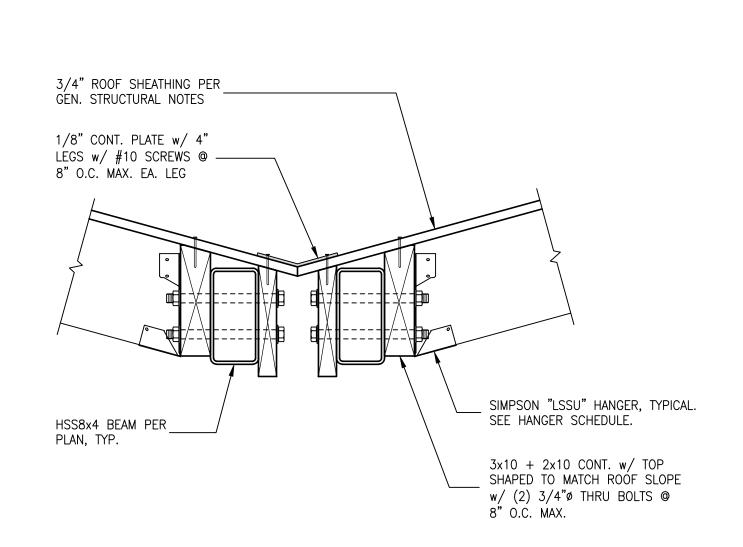
EYEBROW BEAM AT BACKSPAN

TYPICAL SECTION AT EYEBROW BEAM

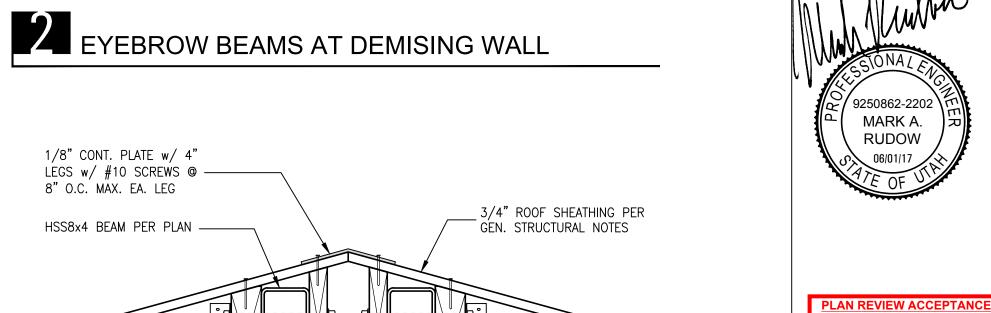


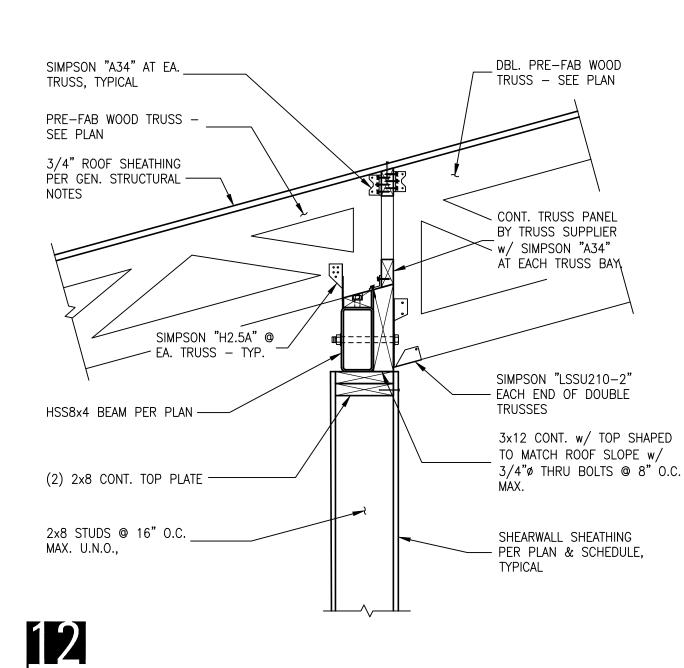


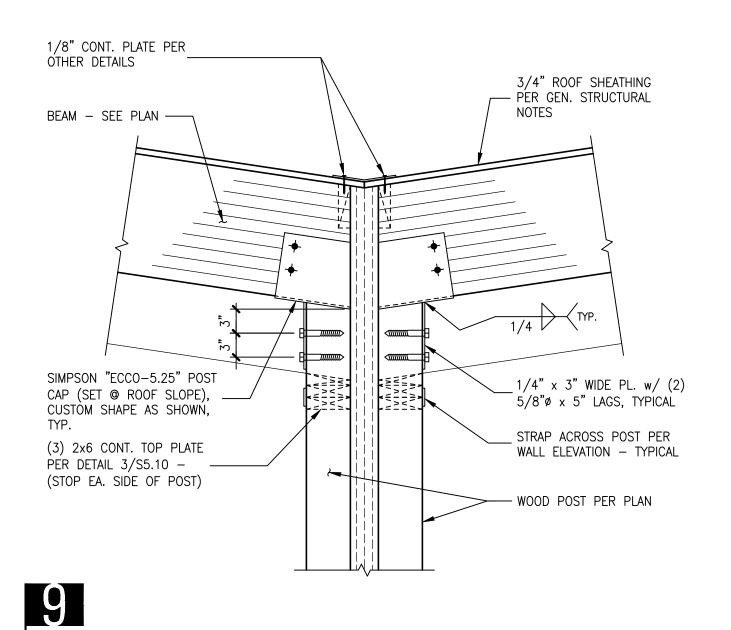


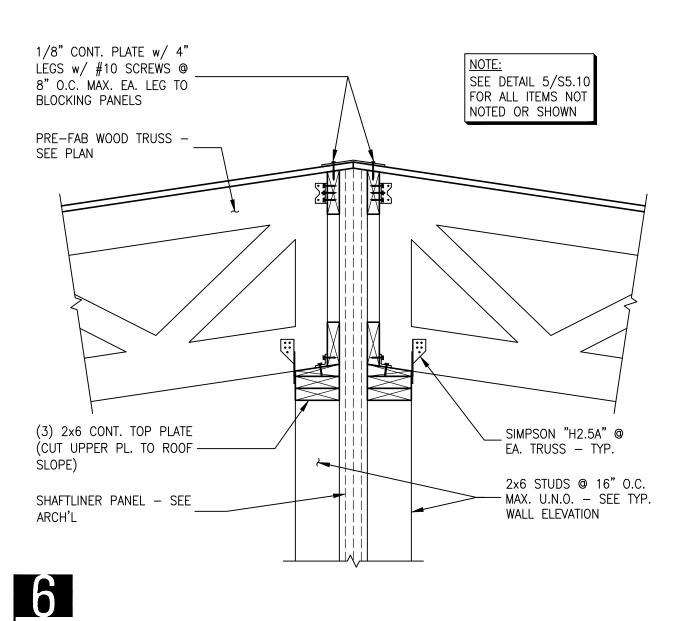


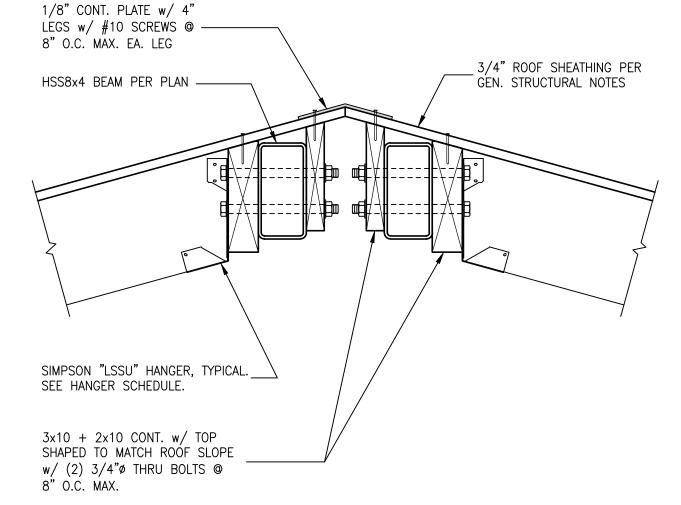
EYEBROW BEAM AT BACKSPAN BEAM CONN.











3 EYEBROW BEAMS AT DEMISING WALL

DETAILS

SY: MEM

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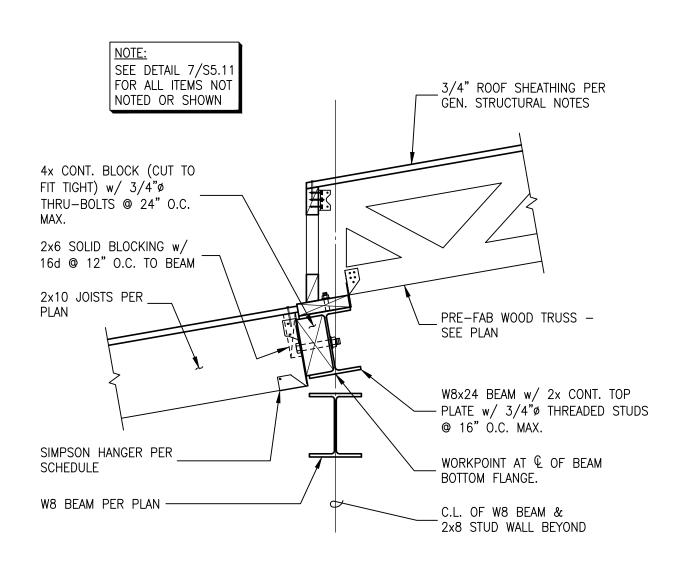
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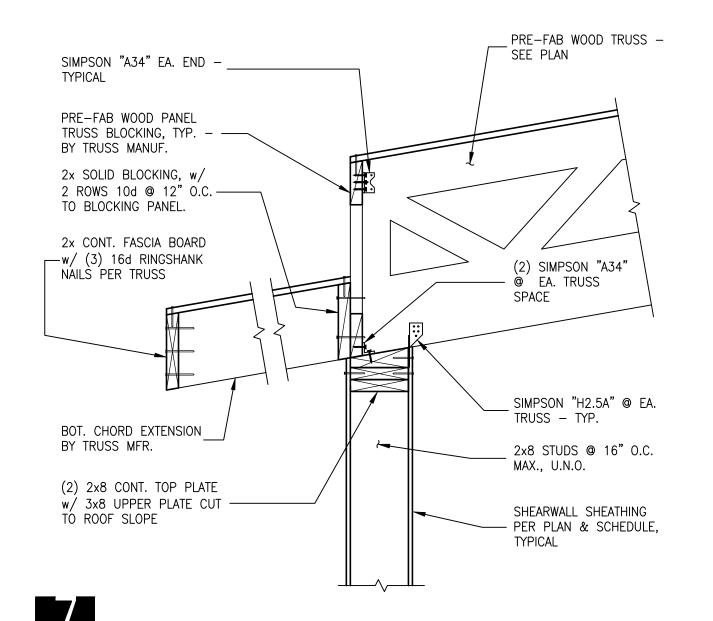
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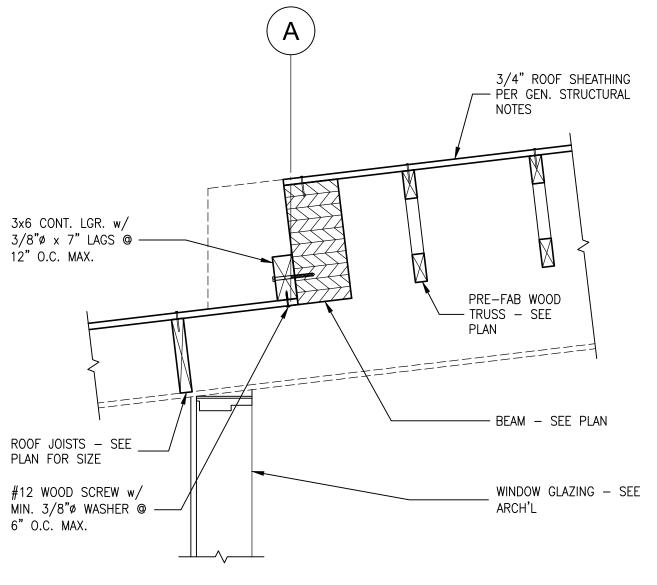
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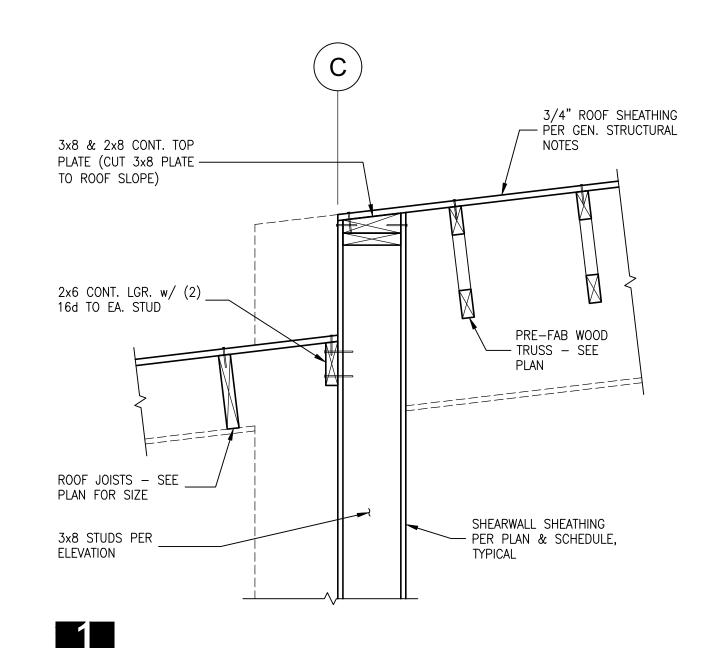
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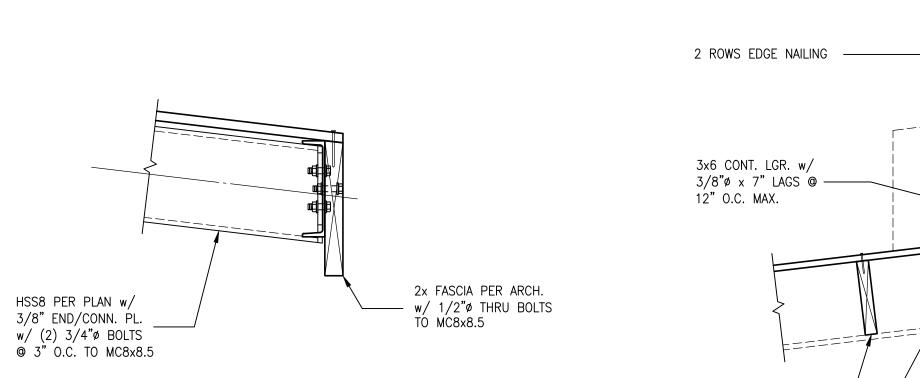






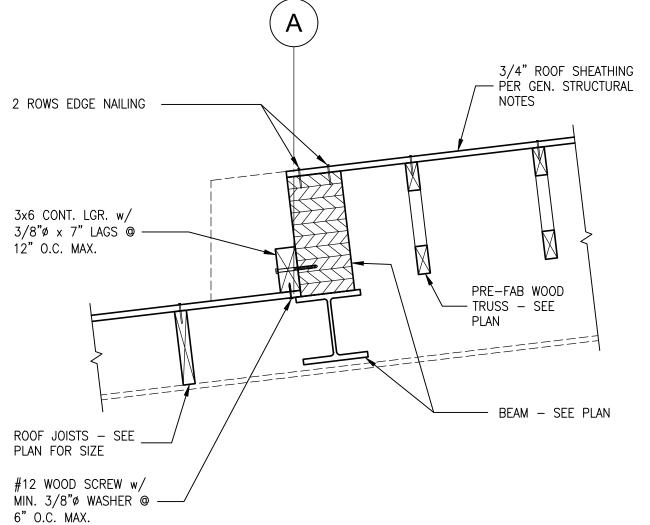


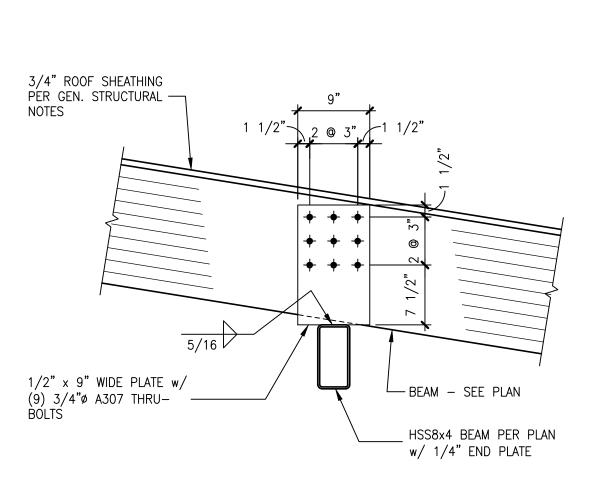
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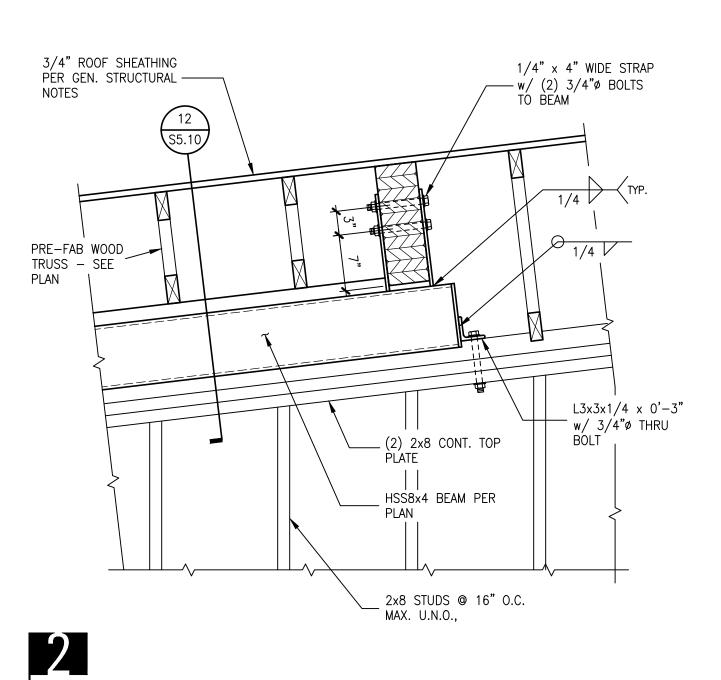


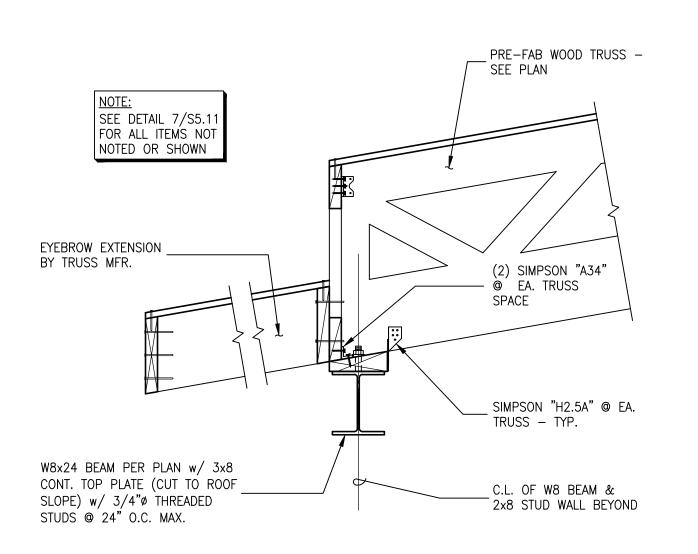
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9









(C)(2) ROWS OF EDGE 3/4" ROOF SHEATHING 3x CONT. PLATE w/ 1/2"ø — PER GEN. STRUCTURAL THREADED STUDS @ 16" O.C. NOTES 1/2"ø THRU BOLT @ 12" O.C. MAX. SOLID WOOD SHIM AS REQUIRED - MIN 3 1/2" -WIDE PRE-FAB WOOD — TRUSS – SEE PLAN -==== ROOF JOISTS – SEE _____ PLAN FOR SIZE WINDOW GLAZING - SEE ARCH'L C.L. OF 2x8 STUD WALL BEYOND

3/4" ROOF SHEATHING PER GEN. STRUCTURAL NOTES 2 ROWS EDGE NAILING -3x6 CONT. LGR. w/ 3/8"ø x 7" LAGS @ — 12" O.C. MAX. PRE-FAB WOOD
TRUSS - SEE PLAN =====7 4x8 CONT SHAPED PLATE — w/ 3/4"ø LAG SCREWS PÉR WALL ELEVATIONS ROOF JOISTS — SEE _ PLAN FOR SIZE #12 WOOD SCREW w/ MIN. SHEARWALL SHEATHING 3/8"ø WASHER @ 6" O.C. MAX. - PER PLAN & SCHEDULE, TYPICAL 3x8 STUDS @ 16" O.C. MAX. U.N.O.

3

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sma project no. 16-101

sma project name POWDERCAT

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9250862-2202 MARK A. RUDOW

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DETAILS

VARIES scale

PERMIT SET phase / rev

2017.06.01 date

			RADIAI	NT T	UBING S	CHEDULE			
UNIT	AREA	LEVEL	MANIFOLD #	LOOP #	FLOOR TYPE	ATTACHMENT	TUBE TYPE	TUBE SIZE IN	TUBE SPACING IN
TYPICAL	BUNK	LOWER	1	1	4" CONCRETE FLOOR	IN CONCRETE SLAB	HEPEX	1/2	12
TYPICAL	BEDROOM 2	LOWER	1	2	4" CONCRETE FLOOR	IN CONCRETE SLAB	HEPEX	1/2	12
TYPICAL	HALL	ENTRY	2	1	WARMBOARD	WARMBOARD PANEL	HEPEX	1/2	12
TYPICAL	BEDROOM 1	ENTRY	2	2	WARMBOARD	WARMBOARD PANEL	HEPEX	1/2	12
TYPICAL	BATHROOM	ENTRY	2	3	WARMBOARD	WARMBOARD PANEL	HEPEX	1/2	12
TYPICAL	LIVING ROOM/KITCHEN	UPPER	2	4	WARMBOARD	WARMBOARD PANEL	HEPEX	1/2	12
124	BEDROOM 3	LOWER	3	1	4" CONCRETE FLOOR	IN CONCRETE SLAB	HEPEX	1/2	12
124	BEDROOM 2	LOWER	3	2	4" CONCRETE FLOOR	IN CONCRETE SLAB	HEPEX	1/2	12
124	HALL	ENTRY	4	1	WARMBOARD	WARMBOARD PANEL	HEPEX	1/2	12
124	BATHROOM	ENTRY	4	2	WARMBOARD	WARMBOARD PANEL	HEPEX	1/2	12
124	BEDROOM 1	ENTRY	4	3	WARMBOARD	WARMBOARD PANEL	HEPEX	1/2	12
124	LIVING ROOM/KITCHEN	UPPER	4	4	WARMBOARD	WARMBOARD PANEL	HEPEX	1/2	12
133	BEDROOM 3	LOWER	5	1	4" CONCRETE FLOOR	IN CONCRETE SLAB	HEPEX	1/2	12
133	BEDROOM 2	LOWER	5	2	4" CONCRETE FLOOR	IN CONCRETE SLAB	HEPEX	1/2	12
133	BEDROOM 1	ENTRY	6	3	WARMBOARD	WARMBOARD PANEL	HEPEX	1/2	12
133	LIVING ROOM/KITCHEN	UPPER	6	4	WARMBOARD	WARMBOARD PANEL	HEPEX	1/2	12
133	HALL	ENTRY	6	1	WARMBOARD	WARMBOARD PANEL	HEPEX	1/2	12
133	BATHROOM	ENTRY	6	2	WARMBOARD	WARMBOARD PANEL	HEPEX	1/2	12

ET EXPANSION TANK SCHEDULE									
MARK	MANUF./ MODEL #	SERVICE/ LOCATION	TYPE	CAP'Y GAL.	SYSTEM	DIA. X HEIGTHT	MAX WORK'G PSIG	OPER. WT. LBS.	REMARKS
1,2,3,	ARSTRONG -	RADIANT HEAT	BLADDER	8	B-1,2,3	14X30	60	55	_
4	ARSTRONG -	SNOW MELT	BLADDER	8	B-4	14X30	60	55	_

DRYER VENT LENGTH LIMITATIONS										
DRYER TYPE	NUMBER OF 90° TURNS (10" RADIUS ELBOWS)	TOTAL DEVELOPED LENGTH OF 4" DIA. <u>RIGID</u> DUCT	UNIT TYPE							
	2	32 FT.	TYPICAL UNIT							
SEE ARCHITECTURAL DRAWINGS FOR ACTUAL	1	33.5 FT.	LOT 124							
MANUFACTURER AND MODEL	3	30.5 FT.	LOT 133							
MODEL										

DRYER VENTING REQUIREMENTS

. Dryer exhaust ducts for clothes dryers shall terminate on the outside of the building and shall be equipped with a backdraft damper.

2. Screens shall not be installed at the duct termination.

3. Exhaust ducts shall have a smooth interior finish and shall be constructed of metal a minimum 0.016 inch (0.4 mm) thick. The exhaust duct size shall be 4 inches (102 mm) nominal in diameter.

4. Ducts shall not be joined with screws or similar fasteners that protrude into the inside of the duct.

5. Provide a recessed dryer hookup venting box as manufactured by "EZ—Flow", or equal. Align dryer vent box with discharge vent location of installed dryer. Coordinate location prior to installation.

6. Provide 10" radius smooth 45-degree or 90-degree elbows for all dryer exhaust duct

7. The equivalent length of the exhaust duct shall be identified on a permanent label or tag. The label or tag shall be located on the wall of each laundry area within 6 feet (1829 mm) of the exhaust duct connection and shall read as follows:

WARNING DO NOT REMOVE To avoid the risk of fire caused by lint build—up in the exhaust duct, all domestic dryers installed at this location shall be manufacturer approved (UL Listed) for connection to an exhaust duct that is ____feet or greater with ____elbows.

(-) DRYER VENT DUCT LENGTH

NTS

	B -	HOT V	WA ⁻	TER	BC	ILE	R S	CHE	EDUI	LE (ELECTRIC)
BE ING	MARK	MANUF./ MODEL #	TYPE	GPM (PSIG)	EWT (F)	LWT (F)	CAP MBH	KW	NO. STAGES	VOLT Ø	REMARKS
2	B-1	ELECTRO IND. EB-MX-10	IN FLOOR	.01	120	140	31.0	10	SCR	240/1	_
2	B-2	ELECTRO IND. EB-MX-15	IN FLOOR	5 .01	120	140	51.0	15	SCR	240/1	_
2	B-3	ELECTRO IND. EB-MX-15	IN FLOOR	5 .01	120	140	51.0	15	SCR	240/1	_
2	B-4	ELECTRO IND. EB-MX-10	SNOW MELT	4 .01	120	140	31.0	10	SCR	240/1	50% GLYCOL/WATER SOLUTION

EXHAUST FAN SCHEDULE

MARK	MANUF./ MODEL #	TYPE	CFM	E.S.P.	WATTS	VOLT Ø	B.D.D.	DRIVE	OPER. WT.	REMARKS
EF-1	GREENHECK SP-A	CEILING	50	.25	20	120/1	YES	DIRECT	15	INTERLOCK WITH MAU-1
EF-RA	TJERNLUND RMS-160	IN LINE	160	2	20	120/1	YES	DIRECT	15	SEE NOTE ON MO.1 FOR TESTING

FLECTRIC MAKE UP AIR UNIT SCHEDULE

\ <u>-</u> _		UF		1 0		<u> </u>		JLL			
MARK MANUF./		CFM	ESP	MO.	TOR	ELECT	TRIC HE	ATING	ENT	LV	REMARKS
MICHAIN	MODEL #	O 141	LSi	HP	VOLT/ø	KW	STEPS	VOLT/ø	AIR	AIR	KEMAKKS
1	MARKEL MFH-3	150	.25	FRAC	240/1	5	SCR	240/1	-20	70	VARIABLE SPEED INTERLOCK WITH TOILET EF-1'S

GRILLE. REGISTER & DIFFUSER SCHEDULE

GITTLE, ILLAIGIEIT & DILI GOLIT GOLILOGEL										
MARK	MANUF./ MODEL #	DESCRIPTION	FRAME	STYLE	FINISH	MATERIAL	DAMPER	MAX. NC	REMARKS	
SL-1	SEIHO TT-6	SOFFIT	SURF	_	PAINTABLE	ALUM	BDD	_	-	
CD-1	SEIHO TT-6	CEILING DIFFUSER	SURF	_	PAINTABLE	ALUM	_	-	-	
WC-1	SEIHO TT-6	WATER CAP	SURF	-	PAINTABLE	ALUM	BDD	1	1	

PUMP SCHEDULE

124

133

48.3

46.3

MARK	MANUF./ MODEL #	SERVICE	GPM	HEAD	RPM	WATTS	VOLT/ø	OPER. WT.	REMARKS
1	ARMSTRONG ASTRO	B-1	4	15	1760	211	120/1	10	-
2	ARMSTRONG ASTRO	B-2	5	15	1760	211	120/1	10	
3	ARMSTRONG ASTRO	B-3	5	15	1760	211	120/1	10	
4	ARMSTRONG ASTRO	B-4	4	20	1760	211	120/1	10	50% GLYCOL/WATER SOLUTION
5	ARMSTRONG ASTRO	MANIFOLD 1	1.0	20	1760	150	120/1	10	
6	ARMSTRONG ASTRO	MANIFOLD 2	3	20	1760	150	120/1	10	
7	ARMSTRONG ASTRO	MANIFOLD 3	1.0	20	1760	150	120/1	10	
8	ARMSTRONG ASTRO	MANIFOLD 4	4	20	1760	150	120/1	10	
9	ARMSTRONG ASTRO	MANIFOLD 5	1.0	20	1760	150	120/1	10	
10	ARMSTRONG ASTRO	MANIFOLD 6	4	20	1760	150	120/1	10	

RESIDENTIAL UNIT HEATING AND COOLING LOAD CALCULATIONS

HEATING AND COOLING LOADS CALCULATED UTILIZING "CARRIER" HOURLY ANALYSIS PROGRAM (VERSION 4.70) BASED ON ASHRAE PROCEDURES. WHICH IS EQUIVALENT TO ACCA MANUAL J

HEATING AND COOLING EQUIPMENT HAS BEEN SIZED IN ACCORDANCE WITH ACCA MANUAL S

UNIT NO.	CALCULAT	TED LOADS	EQUIPMENT	CAPACITY PROVIDED
OR ZONE	HEATING MBTUH	SENSIBLE COOLING (MBTUH)	HEATING MBTUH	SENSIBLE COOLING (MBTUH)
TYPICAL UNIT	29.2	-	31.0	_

51.0

51.0





7201 N. Dreamy Draw Drive Suite 200 Phoenix, Arizona 85020 (602) 943.4116 Facsimile (602) 943.2507 www.mpeconsult.com

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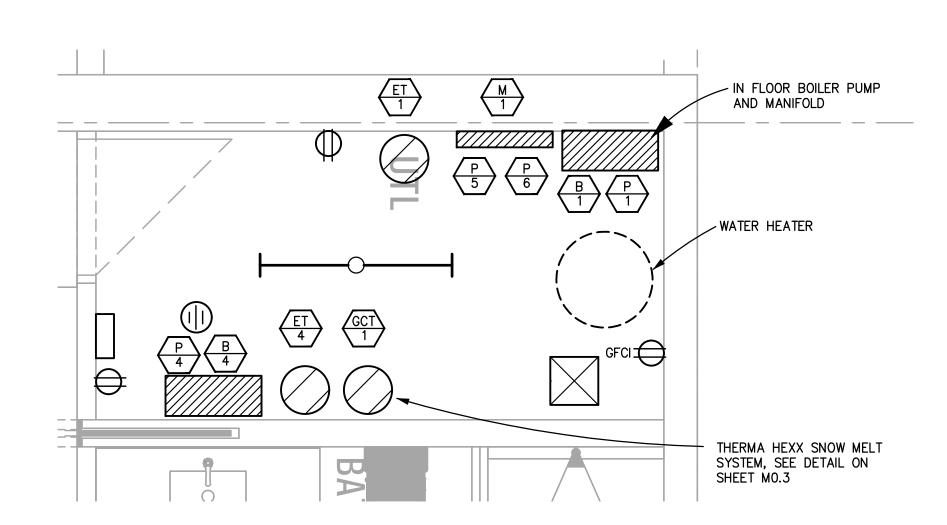
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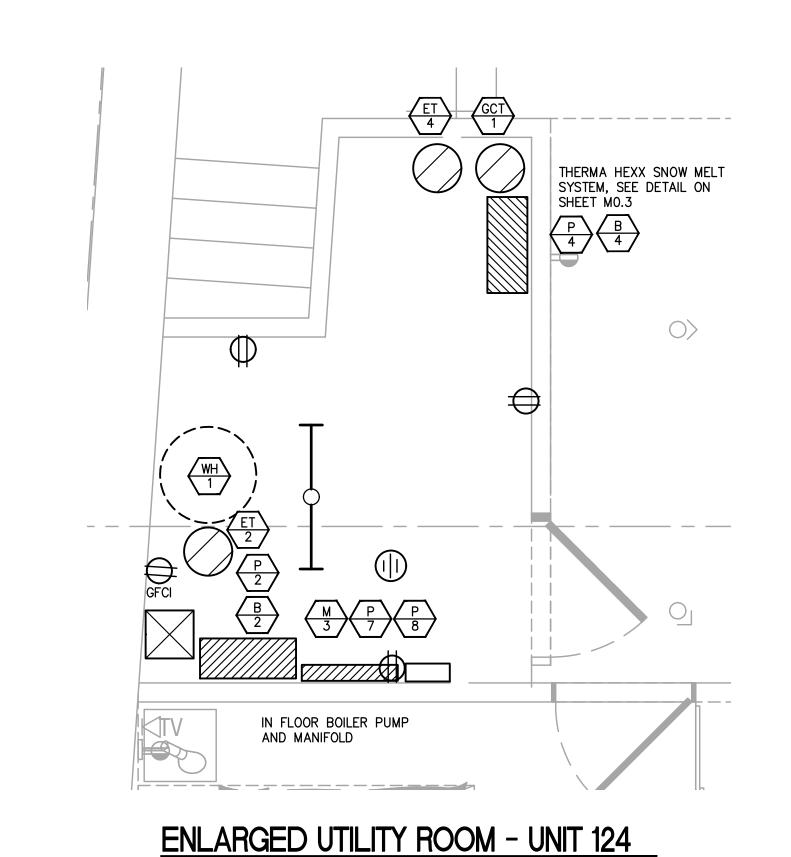
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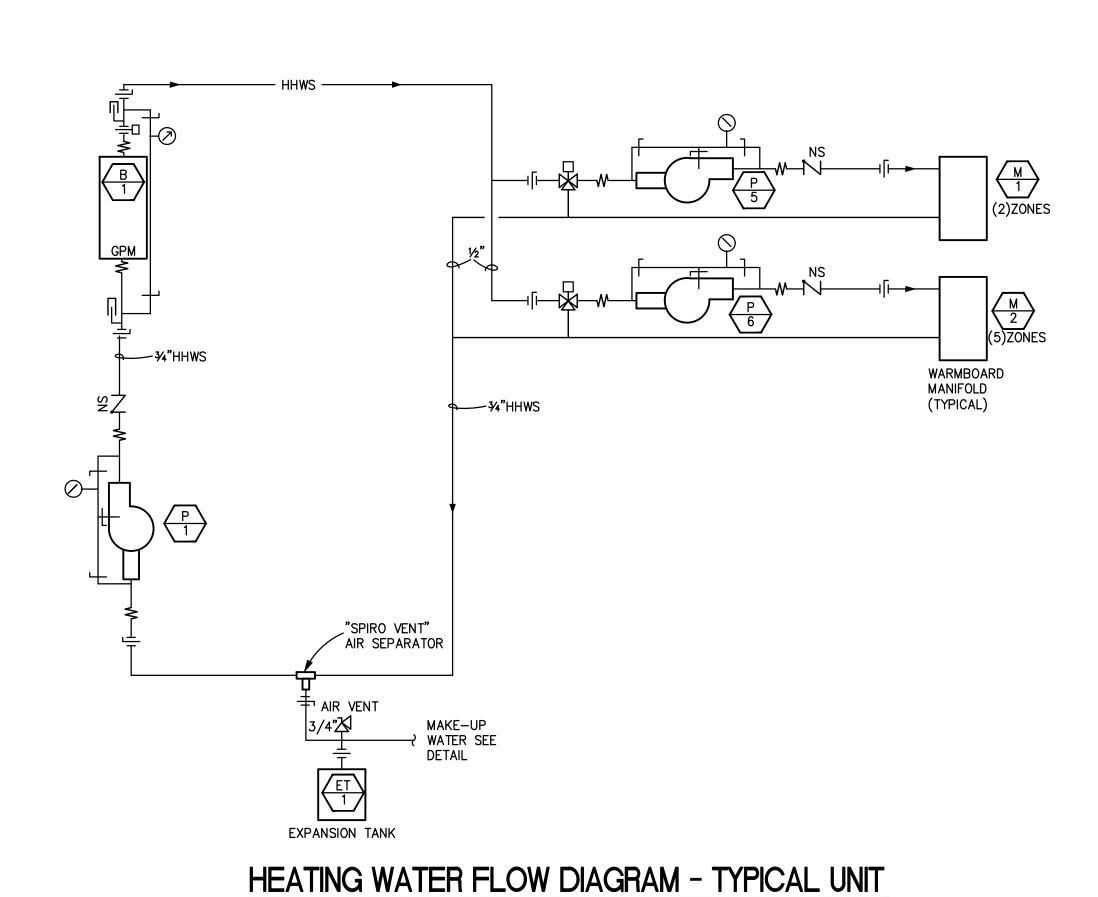
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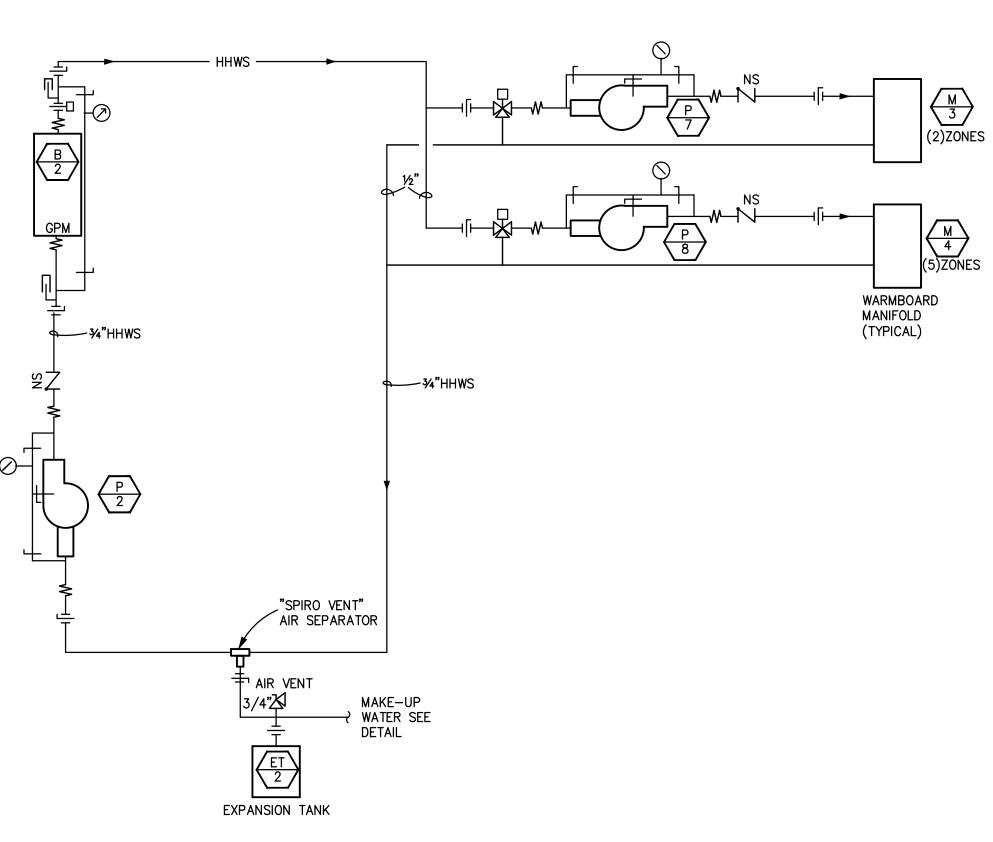


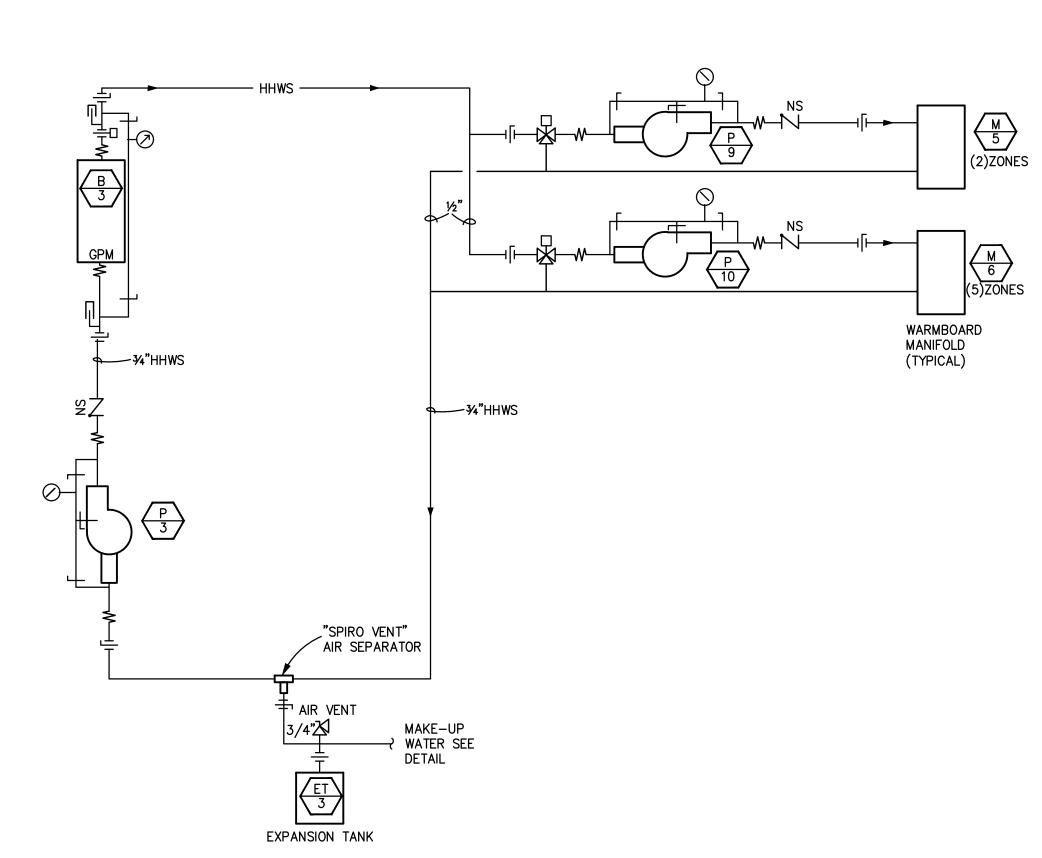
ENLARGED UTILITY ROOM - TYPICAL UNIT



GFCI THERMA HEXX SNOW MELT SYSTEM, SEE DETAIL ON SHEET MO.3 IN FLOOR BOILER PUMP AND MANIFOLD GCT 1 ET 4 ENLARGED UTILITY ROOM - UNIT 133



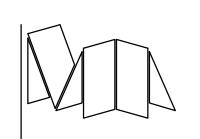




HEATING WATER FLOW DIAGRAM - UNIT 124







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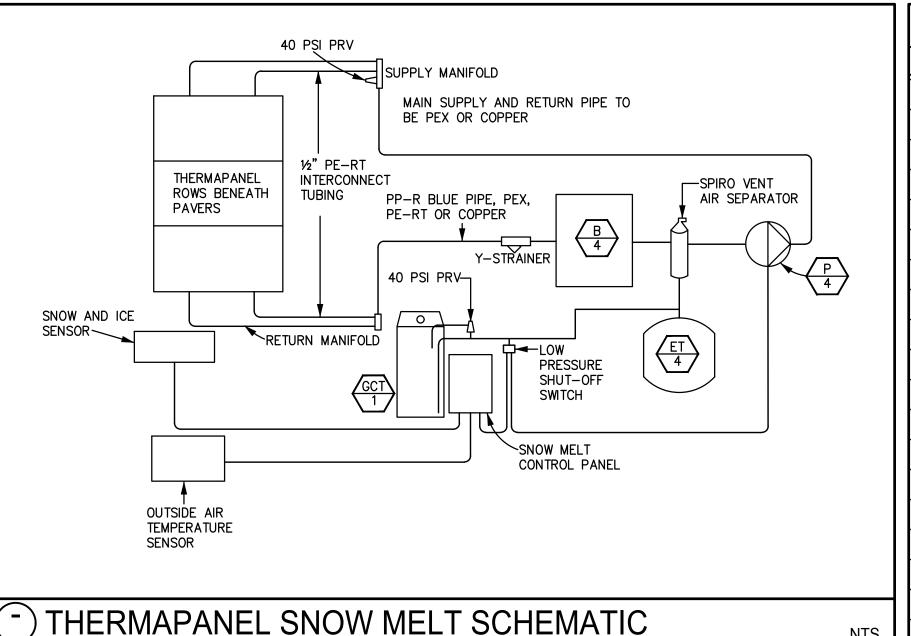


PLAN REVIEW ACCEPTANCE MECHANICAL PLUMBING
ELECTRICAL ENERGY WEST COAST CODE CONSULTANTS, INC

MECHANICAL DETAILS

phase / rev

2017.06.01 date



ADIENT	FLOOR	SEQUENCE	0F	OPERATIONS	

EACH UNIT WILL BE PROVIDED WITH A HYDRONIC HEATING SYSTEM. THE HEATING SYSTEM CONSISTS OF A BOILER, PRIMARY LOOP WITH CIRCULATION PUMP, SECONDARY LOOPS WITH CIRCULATION PUMPS, AND A DIGITAL CONTROLLER. BOTH PRIMARY LOOP AND SECONDARY LOOP ARE CONSTANT VOLUME. THE HEATING SYSTEM IS CONTROLLED BY A STAND ALONE DIGITAL CONTROLLER MOUNTED IN THE UNITS UTILITY CLOSET. THE CONTROLLER SHALL BE PROVIDED WITH A 120V TO 24V TRANSFORMER AND A MAN MACHINE INTERFACE.

THE BOILERS INTERNAL THERMOSTAT SHALL BE SET TO MAINTAIN A SUPPLY WATER TEMPERATURE OF 167'. UPON CALL FOR HEATING FROM ANY OF THE ZONE THERMOSTATS THE CONTROLLER SHALL SEND A SIGNAL TO ACTIVATE THE PRIMARY LOOP CIRCULATION PUMP. WHEN THE FLOW SWITCH IS ACTIVATED TO CONFIRM FLOW THE BOILER SHALL BE ACTIVATED TO MAINTAIN LOOP TEMPERATURE.

EACH SECONDARY LOOP SERVES A RADIANT HEATING MANIFOLD OR HEATING CONVECTORS LOOP. UPON CALL FOR HEATING FROM THE ZONE THERMOSTAT THE CONTROLLER SHALL ACTIVATE THE ASSOCIATED SECONDARY LOOP PUMP AND MODULATE THE THREE WAY VALVE TO MAINTAIN THE USER ADJUSTABLE LOOP SET POINT TEMPERATURES AS FOLLOWS:

RADIANT HEATING MANIFOLD 110°F (ADJ.)

ZONE THERMOSTATS TO BE FULLY PROGRAMMABLE WITH DAILY SCHEDULES FOR HOURLY PROGRAMMING. THERMOSTAT SHALL HAVE A SETBACK FUNCTION. THE THERMOSTAT SHALL BE SUPPLIED FROM THE MANUFACTURER WITH INITIAL HEATING SET POINT TEMPERATURE OF 70F.

THE BOILER SHALL BE PROVIDED WITH AN OUTDOOR RESET FUNCTION. OA SENSOR TO BE PROVIDED BY THE BOILER MANUFACTURER. THE HOT WATER TEMPERATURE SHALL RESET AS FOLLOWS (USER ADJUSTABLE):

OA TEMPERATURE LESS THAN EQUAL TO 14°F

HW SUPPLY TEMPERATURE 15°F TO 50°F 160°F TO 118°F (PROPORTIONAL) 51°F TO 68°F

GREATER THAN 68°F BOILER OFF

PIPING SYMBOLS							
SINGLE	DOUBLE	ABBR	DESCRIPTION				
$\overline{\mathbb{A}}$ \bowtie	•	67	GATE VALVE				
<u>√</u> 1831	•	GLV	GLOBE VALVE				
	•	BV	BALL VALVE				
及 朵	•	cv	CONTROL VALVE (2 & 3 MAY) (ELECTRIC OR ELECTRONIC)				
	•	CKY	CHECK VALVE				
\leftarrow I \leftarrow	•	BFV	BUTTERFLY VALVE				
\leftarrow	•	BLV	BALANCE & FLOW CONTROL VALVE W/TAPS				
<u> </u>	•	NV	NEEDLE VALVE (GAUGE COCK)				
	•	MV	MANUAL AIR VENT				
P ~ → AV ~	•	AV	AUTOMATIC AIR VENT (PIPE DRAIN TO F.S.)				
<u>~—⊔—</u>	•	ITM	INSTRUMENT THERMOMETER WELL				
├ ₽ →	•	PP	PETERSON PLUG W/PG ATTACHMENT				
\$ \$	•	PG	PRESSURE GAUGE & COCK (STEAM SIPHON)				
$\overline{\mathbb{Q}}$	•	TH	THERMOMETER				
Z-+	•	ST	STRAINER W/ FULL SIZE BLOW DOWN VALVE				
$\leftarrow m$	•	FC	FLEXIBLE CONNECTION				
$\leftarrow \rightarrow \mid \leftarrow \mid$	•	FLG	FLANGE				
	•	•	REDUCERS: A. ECCENTRIC B. CONCENTRIC				
H,S,A	•	H,S,A	HANGER, SUPPORT OR ANCHOR (AS NOTED)				
— chws—	•	CHMS	CHILLED WATER SUPPLY				
— CHWR—	•	CHMR	CHILLED WATER RETURN				
— cms —	•	CMS	CONDENSER WATER SUPPLY				
~ CMR ~	•	CHR	CONDENSER WATER RETURN				
← • •	•	D	DRAIN				
<u> </u>	•	IM	INDUSTRIAL MAKE-UP WATER				
├ R ∨ 	•	RY	REFRIGERANT VENT				
<u> </u>	•	FMS	FLOW MEASUREMENT STATION				
○	•	PGVM	PRESSURE GAUGE VALVE MANIFOLD WITH GAUGE				
	•	HE	HOSE THREAD END				
$\leftarrow \parallel \vdash \rightarrow \parallel$	•	UN	UNION				
•	•		POINT OF NEW CONNECTION TO EXISTING				

PIPING SYMBOLS			MECHANICAL LEGEND				
NGLE	DOUBLE	ABBR	DESCRIPTION	SINGLE	DOUBLE	ABBR.	DESCRIPTION
1 🖂	•	67	GATE VALVE			0	RECTANGULAR DUCT (NEW)
1 1281	•	GLV	GLOBE VALVE	} →		٥	TRANSITION
1 🗀	•	BV	BALL VALVE	2—2	8	۰	ROUND DUCT (NEW) (OR OVAL) ØRD ØOVAL
	•	cv	CONTROL VALVE (2 & 3 WAY) (ELECTRIC OR ELECTRONIC)		<u> </u>	٥	RECTANGULAR DUCT (EXISTING)
	•	CKY	CHECK VALVE	55	8_3	0	ROUND DUCT (EXISTING)
<u>-</u>	•	BFV	BUTTERFLY VALVE	7	7	0	45 DEG. TAP: USE AT BRANCH DUCTS ONLY
	•	BLY	BALANCE & FLOW CONTROL VALVE W/TAPS			۰	DUCT SPLIT W/DAMPER: USE AT ELBOWS AND TEES: PROPORTION DUCT AREAS BY CFM'S
-T	•	NY	NEEDLE VALVE (GAUGE COCK)	-		0	CURVED ELBOW-MIN. RADIUS R: 1.5 WIDTH
₩V _	•	MV	MANUAL AIR VENT	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		0	90 DEG. ELBOW WITH SINGLE RADIUS TURNING VANES
~ ¬ AV _	•	AV	AUTOMATIC AIR VENT (PIPE DRAIN TO F.S.)	<u> </u>		0	FLEXIBLE DUCT CONNECTION
	•	ITM	INSTRUMENT THERMOMETER WELL	1 """ 1			
P ~	•	PP	PETERSON PLUG W/PG ATTACHMENT	} 		VD	VOLUME DAMPER W/LOCKING QUADRANT
\$ p	•	PG	PRESSURE GAUGE & COCK (STEAM SIPHON)	 		۰	SPIN-IN FLEX DUCT TAKE-OFF W/DAMPER
4	•	TH	THERMOMETER			5¢Q	SPLITTER DAMPER WITH LOCKING QUADRANT
+ + + + + + + + + + + + + + + + + + + +	•	ST	STRAINER W/ FULL SIZE BLOW DOWN VALVE	0	\boxtimes	SA	SUPPLY AIR
vv⊩-	•	FC	FLEXIBLE CONNECTION	0		EXH	EXHAUST AIR
$\dashv \vdash \vdash \vdash$	•	FLG	FLANGE	0		RA	RETURN AIR
	•	•	REDUCERS: A. ECCENTRIC B. CONCENTRIC	۰	%	REL	RELIEF AIR
\rightarrow	•	H,S,A	HANGER, SUPPORT OR ANCHOR (AS NOTED)	•	<u> </u>	OSA	OUTSIDE AIR
CHMS—→	•	CHMS	CHILLED WATER SUPPLY	۰	•	0	NEW CONNECTION TO EXISTING
CHWR	•	CHMR	CHILLED WATER RETURN	0	0	TA	TRANSFER AIR
cms—→	•	CMS	CONDENSER WATER SUPPLY	0	0	ER ED	EXHAUST REGISTER EXHAUST DUCT
CMR	•	CWR	CONDENSER WATER RETURN	0	0	AFF	ABOVE FINISHED FLOOR
- ⊅ —	•	D	DRAIN	•	0	BFF	BELOW FINISHED FLOOR
- IM —→	•	IM	INDUSTRIAL MAKE-UP WATER	0	0	NTS	NOT TO SCALE
- RV	•	RY	REFRIGERANT VENT	0	0	EH	EXHAUST HOOD
Y	•	FMS	FLOW MEASUREMENT STATION	0	Ŧ	т	THERMOSTAT
-0000	•	PGVM	PRESSURE GAUGE VALVE MANIFOLD WITH GAUGE	D	D —	F/S	COMBINATION FIRE/SMOKE DAMPER
<u> </u>	•	HE	HOSE THREAD END	D —	D —	SD	SMOKE DUCT DETECTOR
 ⊣ —~	•	UN	UNION	P	=	0	FIRE STAT SET AT 165°
•	•		POINT OF NEW CONNECTION TO EXISTING	②	0	0	OUTSIDE AIR STAT
				9	\$	o	SENSOR
		1					

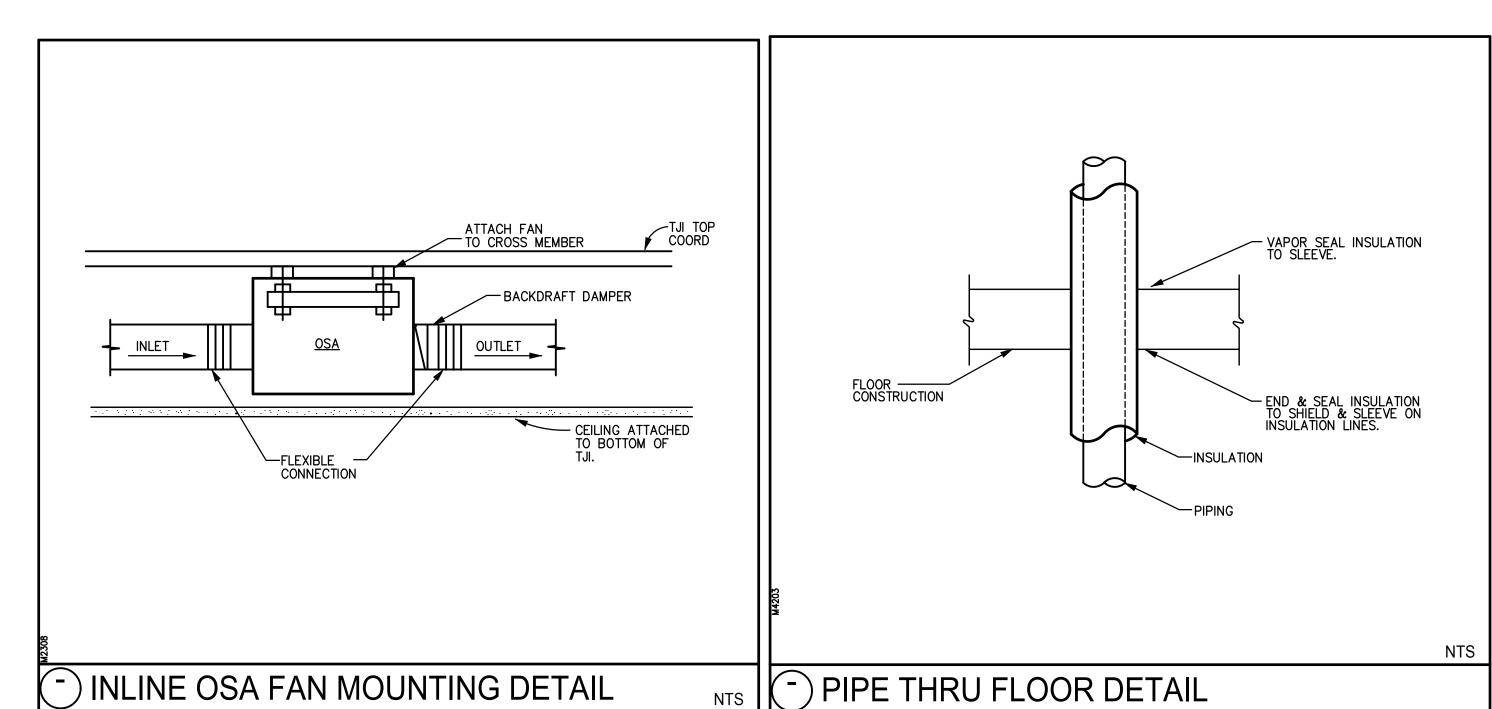
MECHANICAL NOTES

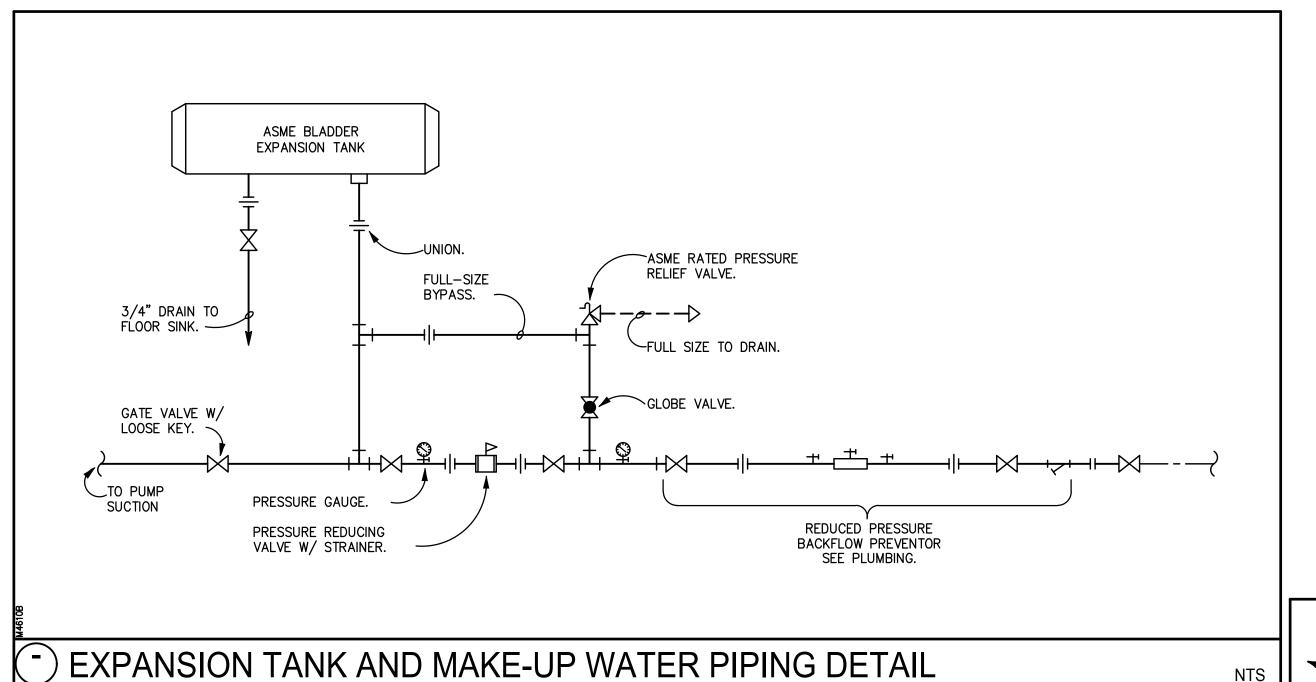
- FURNISH ALL LABOR, MATERIALS, TOOLS EQUIPMENT, FEES, PERMITS, CERTIFICATE OF INSPECTION, ETC., NECESSARY OR REASONABLE, REQUIRED FOR THE COMPLETE INSTALLATION OF ALL AIR CONDITIONING WORK. THE WORK SHALL BE IN STRICT ACCORDANCE WITH ASHRAE GUIDE, AND ALL LOCAL AND STATE CODES, ORDINANCES
- DUCTS SHALL BE FABRICATED OF PRIME GALVANIZED LOCK FORMING QUALITY STEEL SHEETS, OR A GAUGE IN ACCORDANCE WITH THE FOLLOWING TABLE:
- DUCTS WITH LONGEST SIDE NOT MORE THAN 12" IN WIDTH...26 GA • DUCTS WITH LONGEST SIDE 13" TO 30" IN WIDTH......24 GA
- DUCTS WITH LONGEST SIDE 31" TO 40" IN WIDTH......22 GA DUCTS WITH LONGEST SIDE OVER 40"......20 GA
- PROVIDE RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES AND EXTRACTORS WHERE APPLICABLE.
- 4. DUCT SIZES SHOWN ARE "CLEAR INSIDE" DIMENSIONS.
- PREFORM A TOTAL TEST AND BALANCE OF SYSTEM. TESTING COMPANY MUST BE CERTIFIED BY AABC OR NEBB. SUBMIT A CERTIFIED REPORT TO ARCH. 10 DAYS PRIOR TO C OF O WITH A COPY TO CITY INSPECTOR.
- ALL DUCTWORK TO BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH "ASHRAE GUIDE AND SMACNA OR IMC (2015) STANDARDS". SEAL ALL DUCTWORK, LONGITUDINAL AND LATITUDINAL JOINTS WITH DP-1010 SEALANT (PER 2015 IECC).
- EXACT PLACEMENT OF DIFFUSERS AND REGISTERS TO BE COORDINATED WITH ARCHITECTURAL - REFLECTED CEILING PLAN.
- CONTRACTOR TO VERIFY LOCATION OF ALL AIR EQUIPMENT SO THAT NO INTERFERENCE ARE ENCOUNTERED WITH OTHER EQUIPMENT OR WITH STRUCTURAL
- MECHANICAL CONTRACTOR TO VERIFY THAT ALL DUCTWORK WILL FIT WHERE INDICATED WITHOUT INTERFERENCE.
- 10. CONTRACTOR AND ARCHITECT TO VERIFY T-STAT LOCATIONS.
- THERMOSTATS MUST BE LOCATED 48" ABOVE FINISHED FLOOR. (TO CENTERLINE OF THERMOSTAT) T-STATS SHALL BE 7 DAY PROGRAMMABLE WITH SET-BACK CAPABILITIES (PER 2015 IECC).
- MECHANICAL CONTRACTOR SHALL INSULATE ALL NEW SUPPLY AND RETURN AIR DUCTWORK LOCATED WITHIN AN ATTIC SPACE WITH MIN. R-6 INSULATION, ALL NEW SUPPLY AIR DUCTWORK LOCATED WITHIN A PLENUM SPACE WITH MIN. R-6 INSULATION AND/OR ANY DUCTWORK EXPOSED TO THE EXTERIOR WITH MIN. R-8 INSULATION (PER 2015 IECC). INSULATION NOT REQUIRED FOR FOR SUPPLY/RETURN AIR DUCTWORK LOCATED WITHIN A PLENUM SPACE WHERE THE ENVELOPE INSULATION IS MIN. R-8 OR ANY EXHAUST DUCT.
- . HVAC CONTRACTOR SHALL REPLACE ALL FILTERS UPON COMPLETION OF CONSTRUCTION. THIS INCLUDES FILTERS AT ALL NEW UNITS AND FILTERS AT ALL EXISTING UNITS AFFECTED BY CONSTRUCTION.
- ALL WORK IS ALSO TO CONFORM TO ICC-700 GREEN BUILDING CODE; THIS IS A MANDATE PER SUMMIT POWDER MOUNTAIN. ANY ADDITIONAL REQUIREMENTS TO MEET THIS STANDARD ARE TO BE INCLUDED AND ENUMERATED.

MANIFOLD WARMBOARD: 114" BRASS BODY WITH FACTORY MOUNTED MAIN ISOLATION VALVES WITH INTEGRAL TEMPERATURE GAUGES. BRASS END CAPS WITH AUTOMATIC AIR VENT AND DRAIN. BRASS ZONE BALANCING VALVES, BRASS BALL ZONE ISOLATION VALVES, ZONE ACTUATES, METAL OFFSET WALL MOUNTING BRACKETS. SIGHT GLASS AND FLOW METERS.

PUMPS: 3-SPEED INLINE CIRCULATOR, CAST IRON BODY, PA66 IMPELLER, CERAMIC SHAFT, CERAMIC BEARINGS, EPDM GASKET. ETL LISTED FOR UNITED STATES, STD. 778 CERTIFIED TO CSA STD. C22.2 NO. 108-01

RADON: AFTER BUILDING FOUNDATION AND ENVELOPE CONSTRUCTION IS COMPLETE, CONTRACTOR TO ENGAGE AN AARST-NRPP CERTIFIED TECHNICIAN TO TEST RADON LEVELS IN EACH UNIT. IF THE RADON CONCENTRATION EXCEED 4.0 PCI/L THE RADON MITIGATION FAN (EF-RA) SHALL BE INSTALLED.







NTS

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sma project no. 16-101

sma project name POWDERCAT

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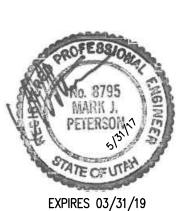
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talisman civil consultants 5217 south state st, ste 200 murray, uT 84107 t (801) 743-1308

STRUCTURAL rudow + berry, inc. 4032 n miller rd. a100 scottsdale, az 85251 t (480) 946-8171

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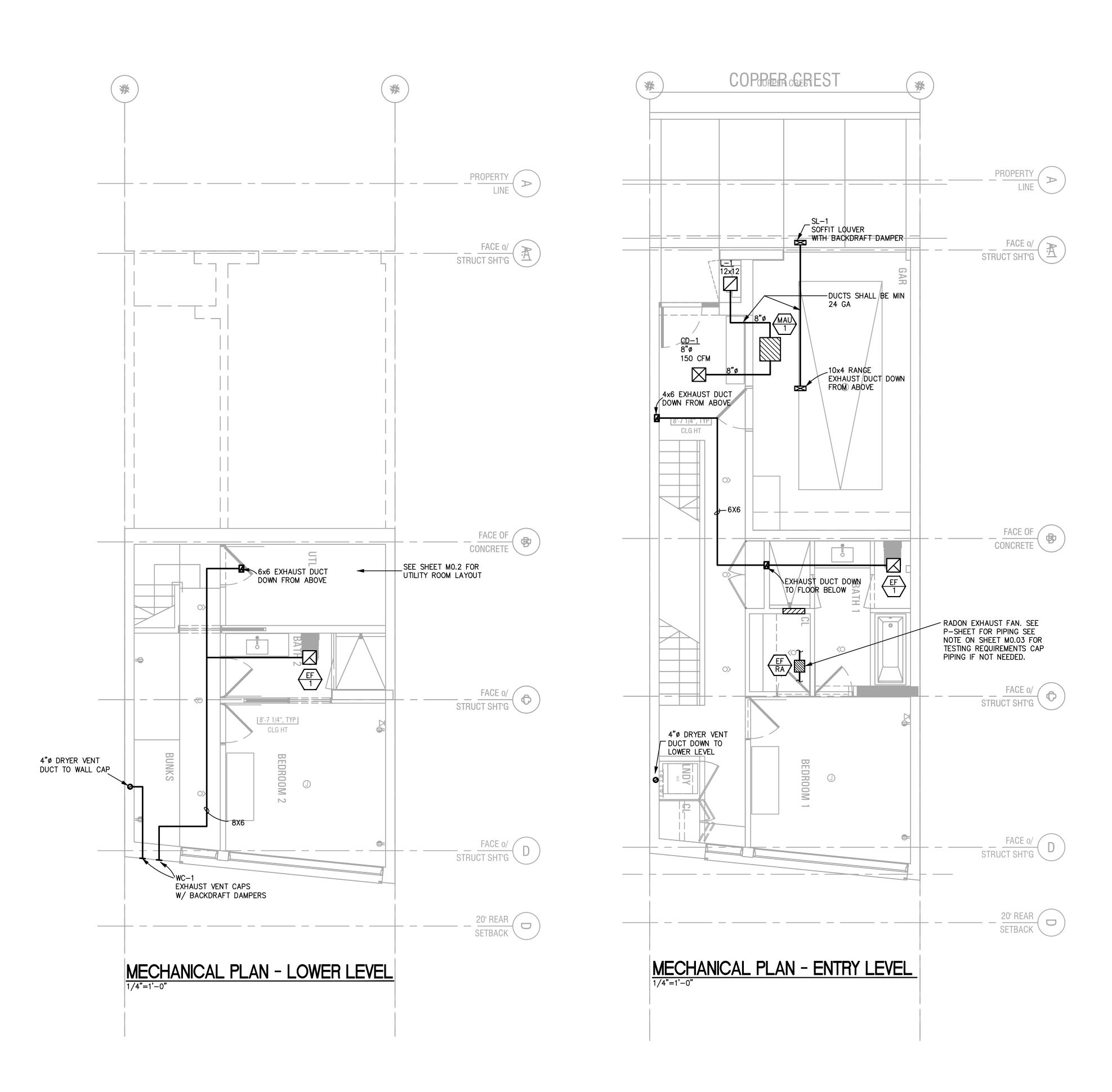
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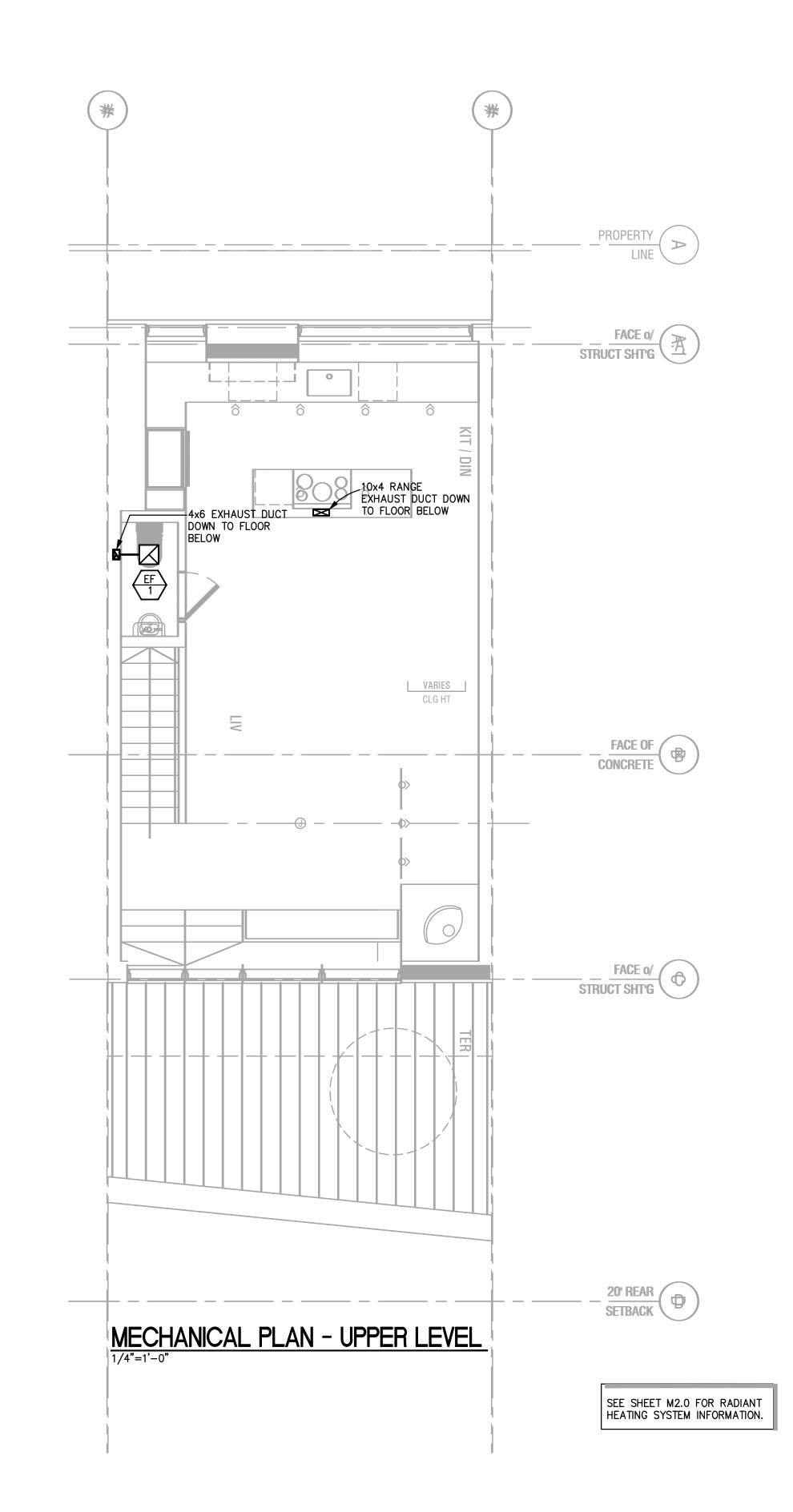


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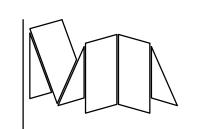
MECHANICAL NOTES

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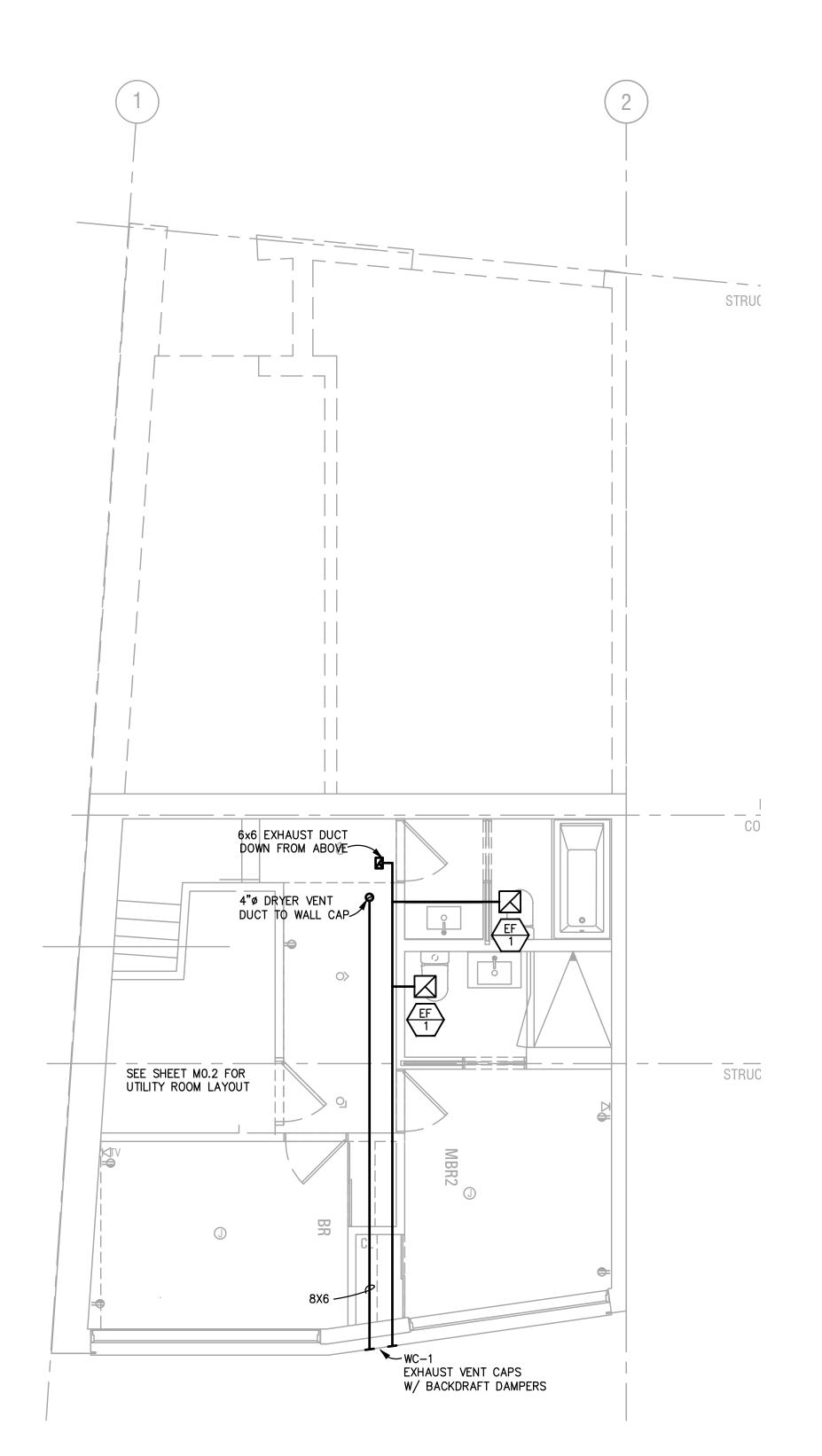
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TYPICAL UNIT FLOOR PLANS

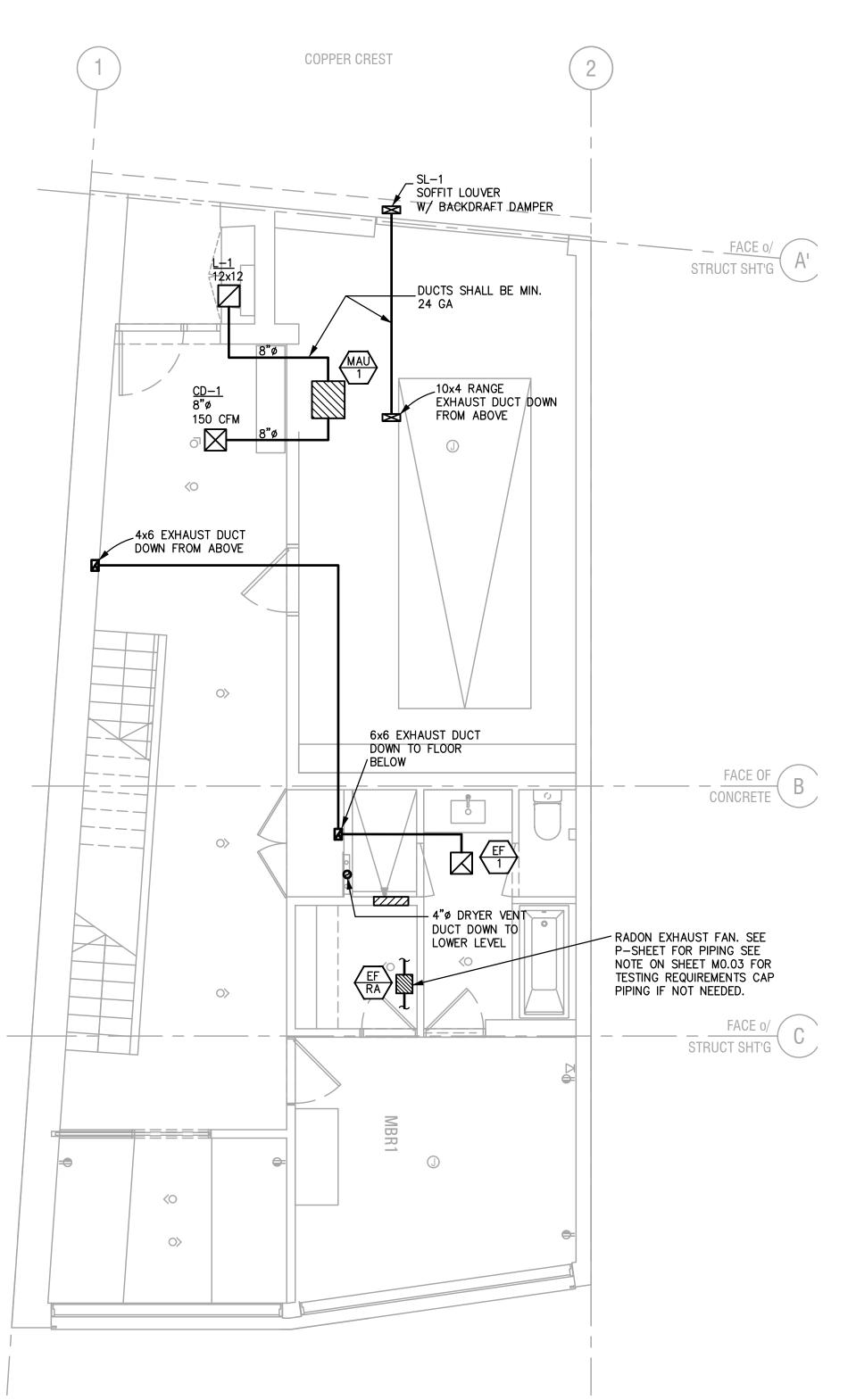
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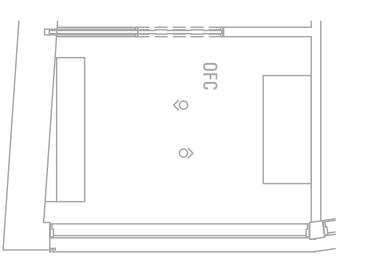
2017.06.01 date



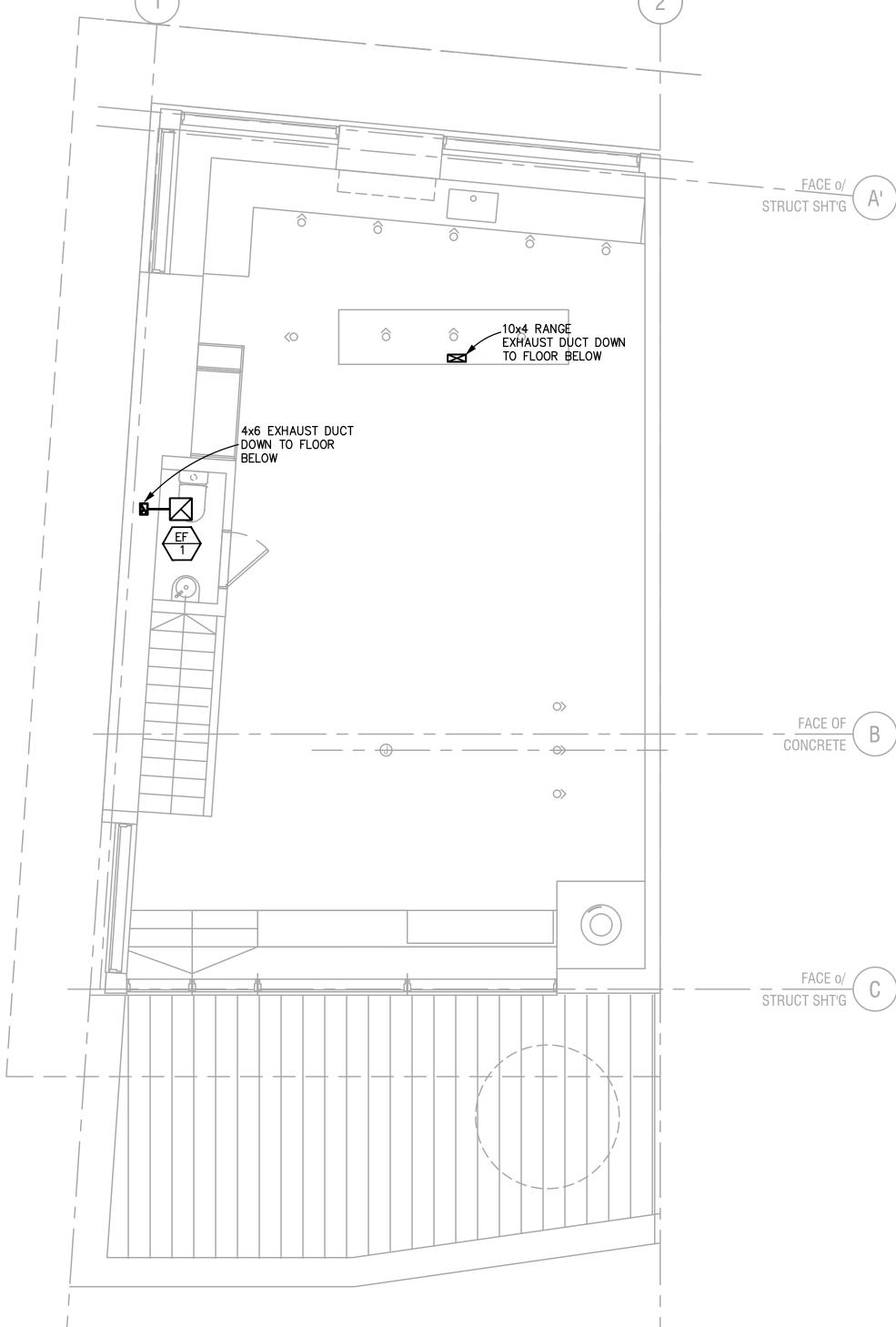
MECHANICAL PLAN - LOWER LEVEL



MECHANICAL PLAN - ENTRY LEVEL



SEE OPTION BELOW



MECHANICAL PLAN - UPPER LEVEL

SEE SHEET M2.1 FOR RADIANT HEATING SYSTEM INFORMATION.



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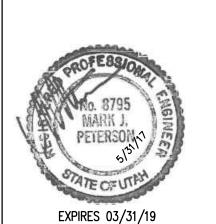
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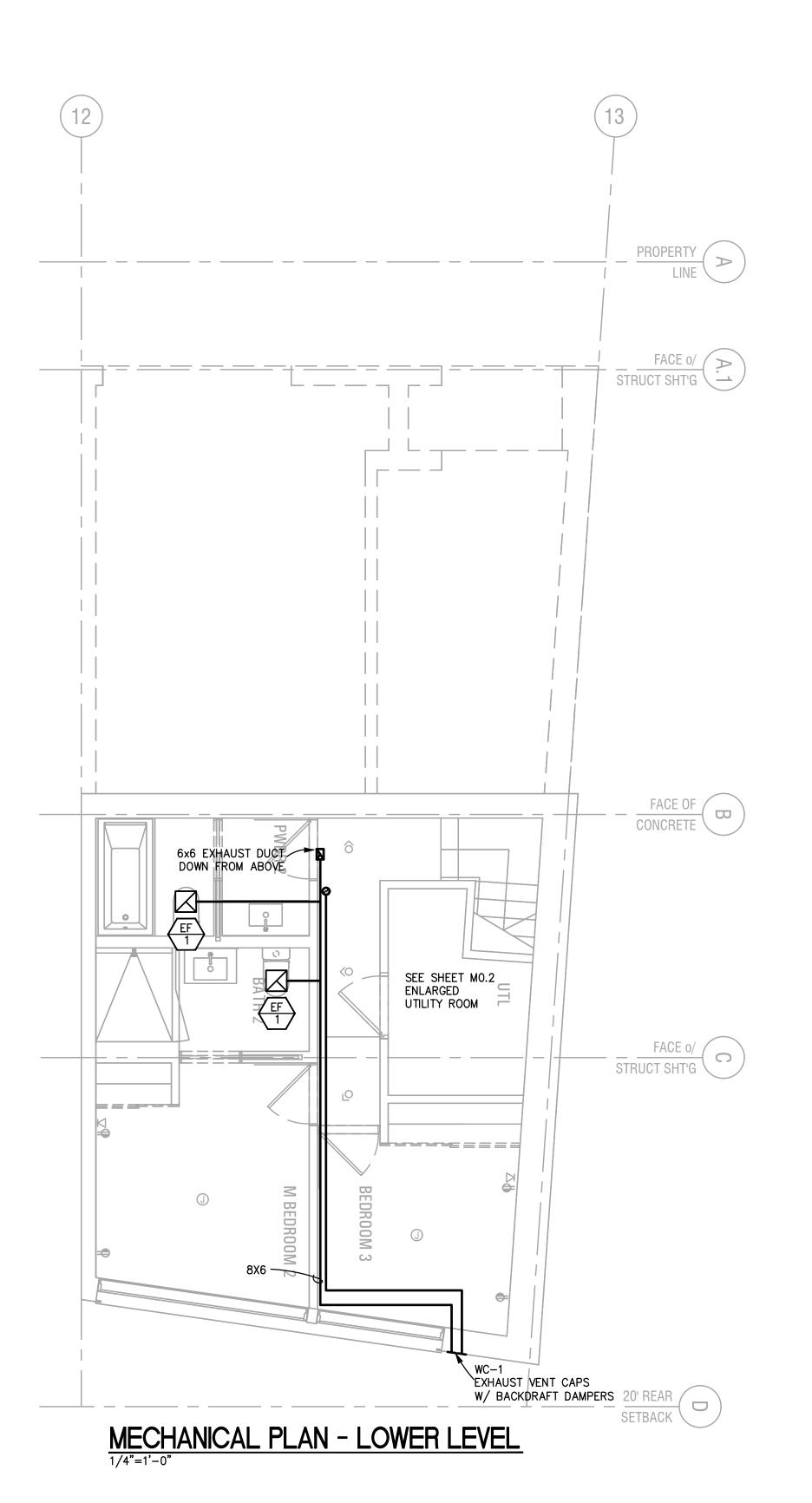
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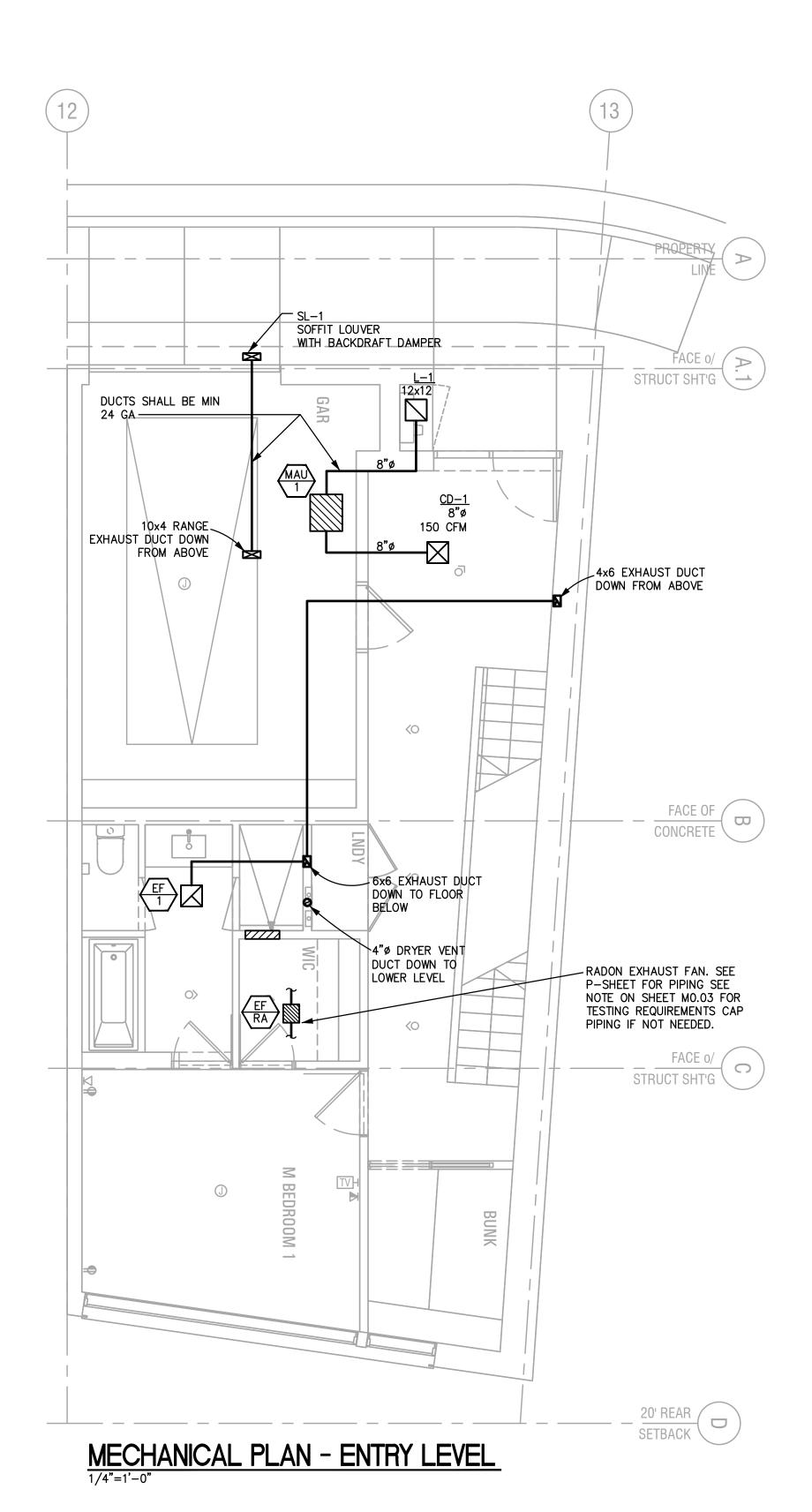
LOT 124 FLOOR

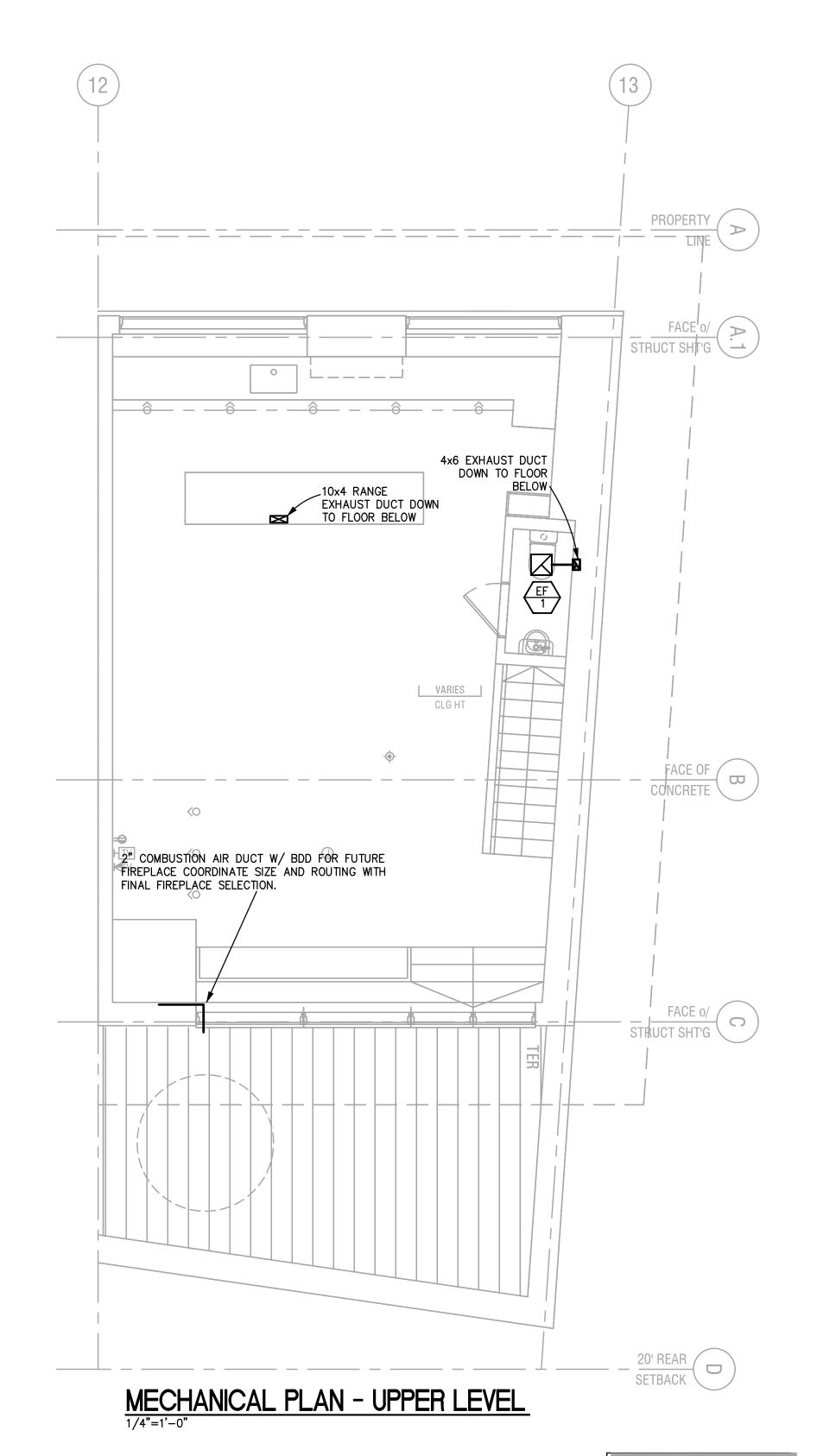
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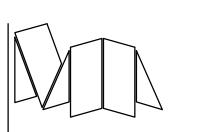






SEE SHEET M2.2 FOR RADIANT HEATING SYSTEM INFORMATION.





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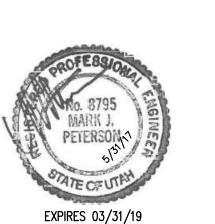
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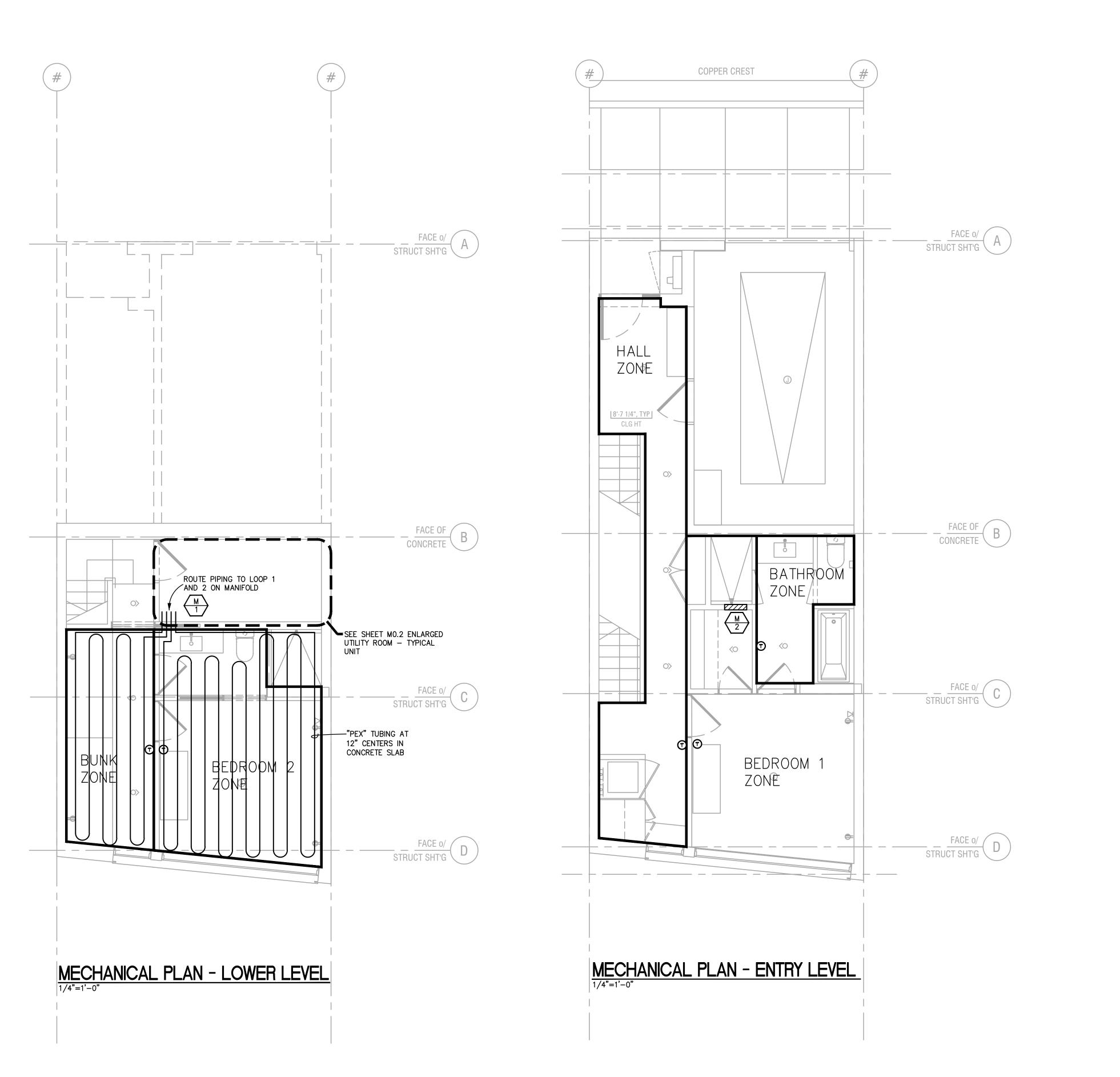


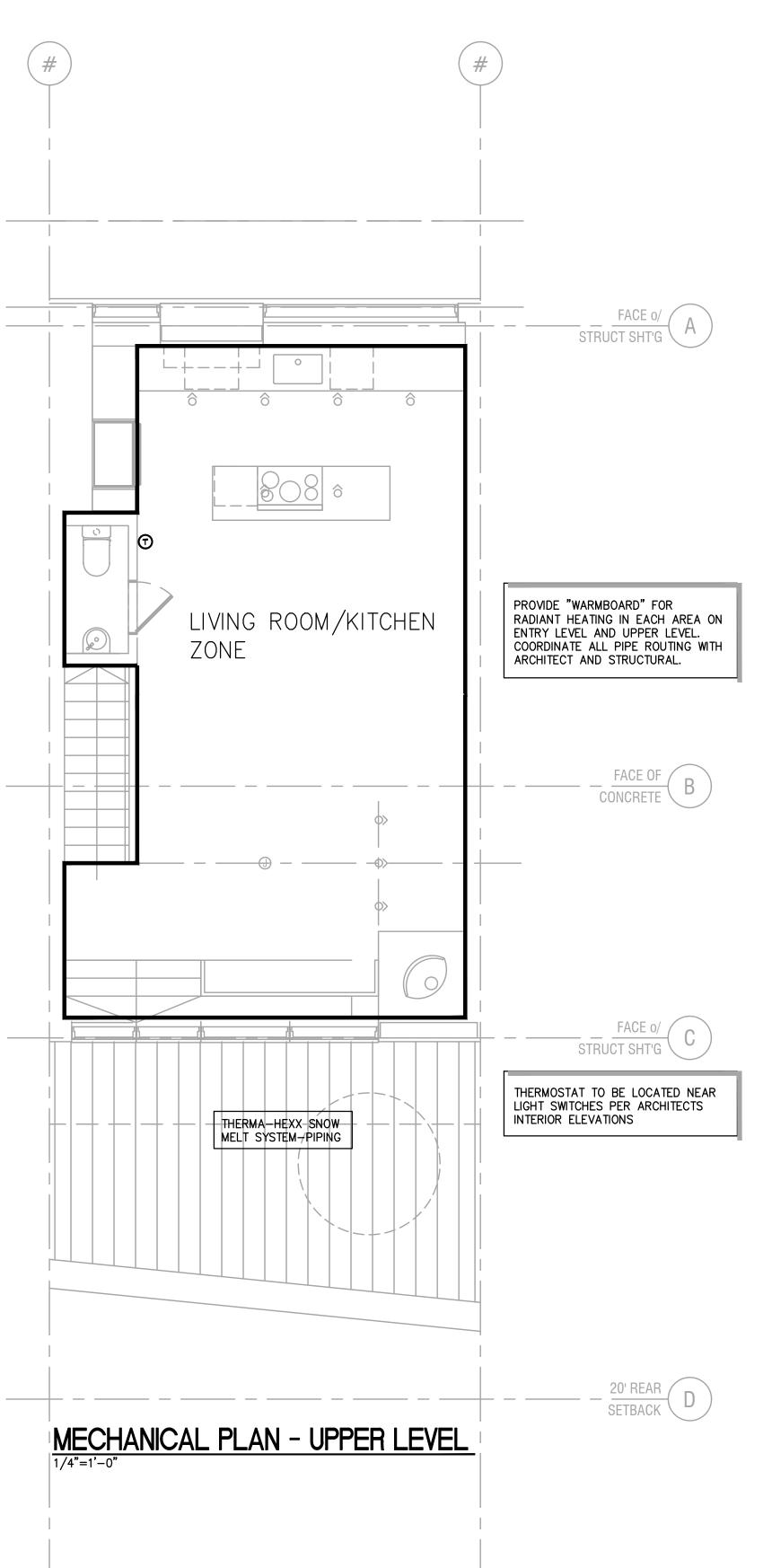


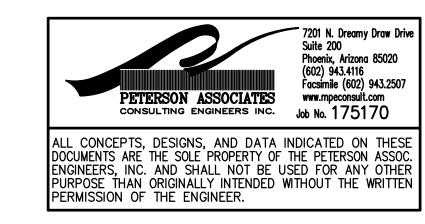
LOT 133 FLOOR PLANS

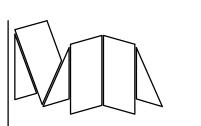
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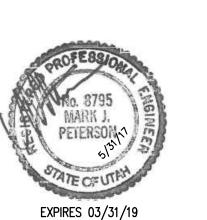
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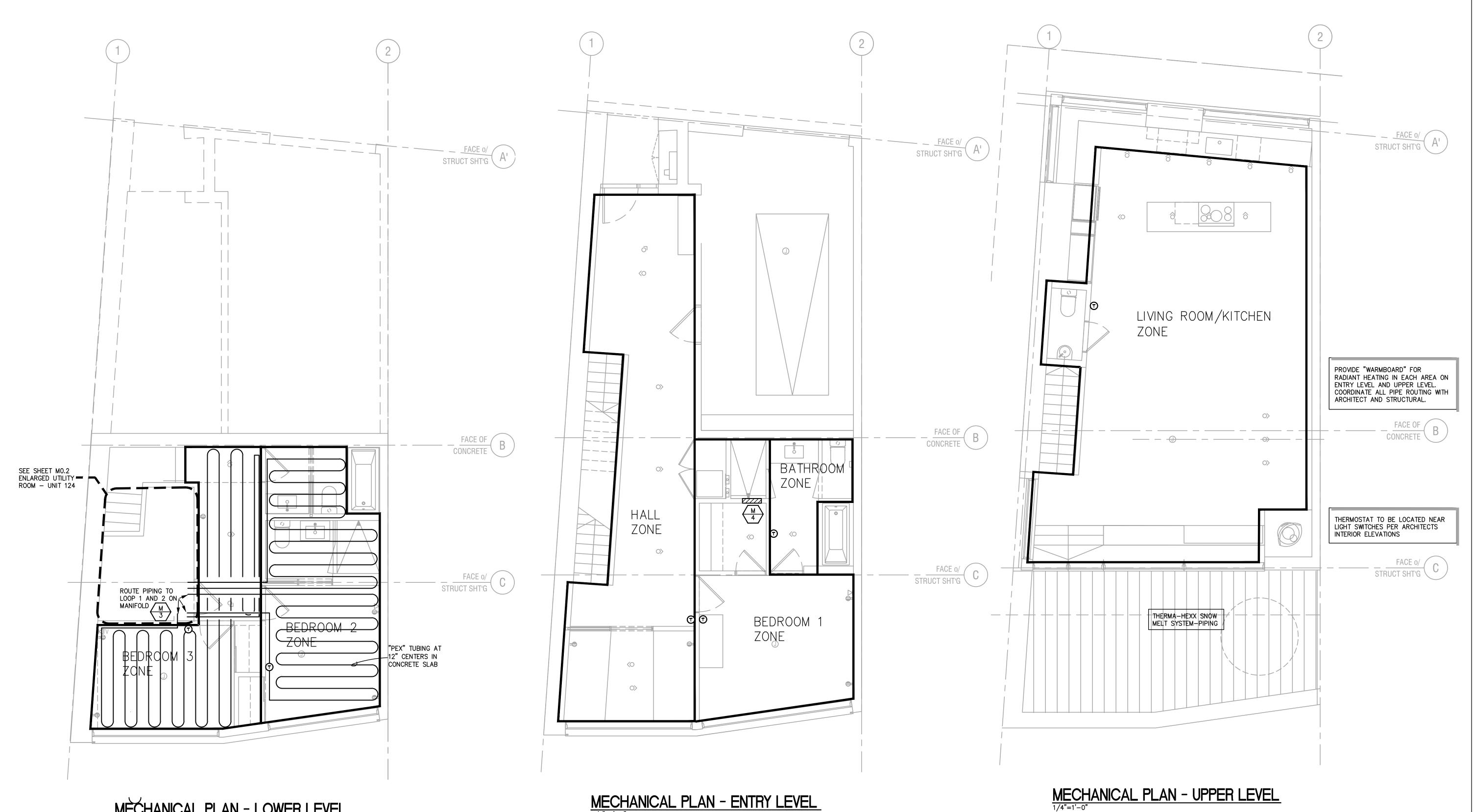
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TYPICAL UNIT ZONING PLANS

scale

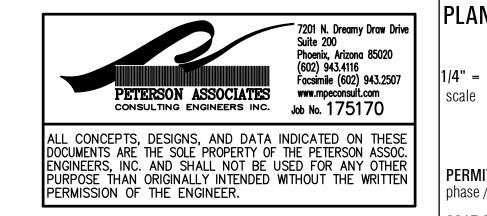
phase / rev

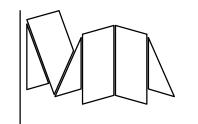
2017.06.01 date



MECHANICAL PLAN - ENTRY LEVEL

MECHANICAL PLAN - LOWER LEVEL





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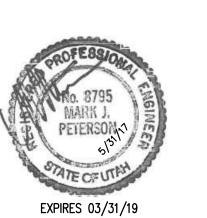
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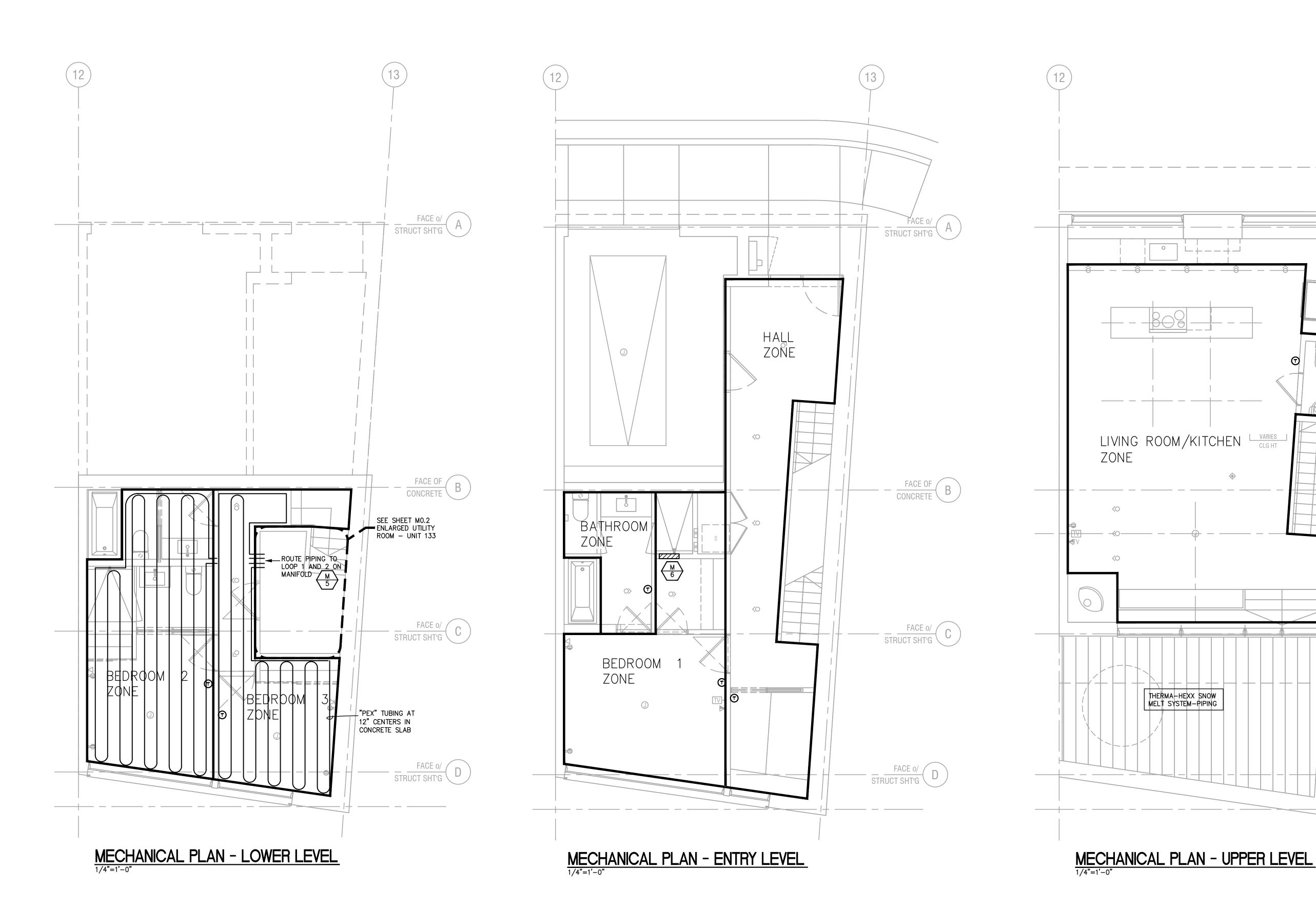
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M2.1 LOT 124 ZONING

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FACE o/ A

PROVIDE "WARMBOARD" FOR

FACE OF B

FACE O/ C

THERMOSTAT TO BE LOCATED NEAR LIGHT SWITCHES PER ARCHITECTS INTERIOR ELEVATIONS

RADIANT HEATING IN EACH AREA ON ENTRY LEVEL AND UPPER LEVEL.
COORDINATE ALL PIPE ROUTING WITH ARCHITECT AND STRUCTURAL.

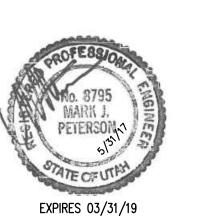
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LOT 133 ZONING

scale

phase / rev **2017.06.01** date

SECTION 23 0000 MECHANICAL SPECIFICATIONS

PART 1 GENERAL

1.01 SCOPE OF WORK

A. The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complimentary, and what is required by one shall be as binding as if required by all. The Performance by the Contractor shall be required only to the extent consistent with the Contract Documents as reasonably inferable from them as

necessary to produce the intended results. 1. The Contractor shall refer to all project drawings and specifications prior to submission of bid and include monies to provide a complete and functioning system. Reference drawings include, but are not necessarily limited to, Civil,

Architectural, Structural, Electrical, Plumbing and Fire Protection. 2. Work Included: Unless specified otherwise, provide all labor, materials and equipment necessary for completely finished and operational mechanical systems. Provide all minor incidental items such as offsets, fittings, etc. required as part of the Work even though not specified or indicated. All materials used

shall be of domestic manufacturers. No foreign material will be allowed. 3. Description of Systems: The work includes but is not limited to: a. Heating, Ventilating and Air Conditioning System(s).

4. Drawings are diagrammatic. Refer to Civil, Electrical, Plumbing, Fire Protection, Architectural and Structural Drawings and specifications for information on equipment furnished and installed by others which may conflict with rough-in or equipment locations. Coordinate Mechanical system components with all other Disciplines' Work. No adjustment in contract price will be made for failure to review or coordinate work prior to fabrication and/or installation.

5. Inconsistencies. In the case of any inconsistency between drawings and specifications or within either document not clarified by addendum, the better quality or greater quantity of work shall be provided in accordance with the Engineer's interpretation.

1.02 INSPECTION AND TESTS

1.03 PROJECT COORDINATION

A. Furnish Architect with certificate of inspection and approval by local authorities and required test reports prior to final acceptance of the project by the Architect. All work must be inspected and tested per local code requirements.

A. All Contractors shall be responsible for coordinating Work with other trades and for cutting and re-finishing of existing walls, floors, solid and suspended ceilings, etc., where required by Work shown and noted herein. Install all Work to clear new and existing architectural and structural members. Items such as pipe, fittings, etc., shall not be installed in conflict with equipment. Coordinate all cutting and patching with the General Contractor. Subcontractor shall be responsible for all cutting and patching of his Work. Obtain written permission of Architect before proceeding with any cutting or patching of structural systems.

B. Any discrepancies which may affect the Contractor's bid shall be brought to the attention of the Engineer and Architect for direction.

the project requirements. D. Contractor shall coordinate with Electrical Subcontractor to insure proper electrical

C.During construction, coordinate use of site and facilities and work sequence to meet

voltage requirements for all mechanical equipment. E. Coordinate exact location of ceiling outlets with lighting plan and Architectural

Drawings. 1.04 FIELD VERIFICATION

A. Contractor shall visit the job site and familiarize himself with all existing conditions which may affect his bid. All existing equipment, ductwork, air distribution devices, thermostats, controls and piping are shown on the drawings for reference only. No allowances will be made after the bid for existing conditions or the Contractor's

failure to verify existing conditions. B. The following items shall be verified:

1. Exact placement, size, capacity, manufacturer and condition of all existing HVAC equipment within the scope of work whether specifically shown on the drawings

2. Size and location of all existing ductwork.

3. Structural members which may be in conflict with new work.

4. Size and location of all existing grilles, registers, louvers and diffusers. Type and location of all thermostatic control devices.

6. Size and location of all existing hydronic piping, valves and controls. C. Any discrepancies which may affect the Contractors bid shall be brought to the attention of the Engineer and Architect for direction.

1.05 SUBMITTALS A. See Architectural Administrative Requirements, for submittal procedures. B. Product Data: Provide shop drawings and manufacturers' product data and catalog

information on the following: 1. All HVAC equipment, including roof curbs, controls, etc.

2. Air distribution systems, including ductwork, fittings, insulation, fire dampers. diffusers, grilles, balancing dampers, sound attenuators, etc.

3. Hydronic distribution systems, including piping, valves, fittings, insulation, air separators, expansion tanks, etc.

C.Project Record Documents: Provide Digital (PDF) of Record Documents and peration manuals, diagrams, service contracts, guarantees, etc. for Owner's use. Record actual locations of all ductwork, piping, valves or equipment and incorporate into the Record Documents to show the final "Installed" conditions.

D. Submit only those manufacturers listed on the drawings or in the specific section unless prior approval was obtained.

E. Submit shop drawings and product data grouped to include complete submittals of related systems, products, and accessories in a single submittal. Partial submittals will not be reviewed by the Engineer.

F. Mark dimensions and values in units to match those specified.

G.Clearly identify specific components on multi-item equipment or data sheets. H. The Installing Contractor shall review all submittals for compliance with plans and specifications. The contractor shall stamp each item in the submittal indicating that the review process has been completed

I. Any discrepancies in the submittals from the requirements of the plans and specifications shall be noted by the Installing Contractor. If major discrepancies, errors, or product omissions are found, the Installing Contractor shall correct the submittals before forwarding for review by the Engineer. 1.06 REQUEST FOR INFORMATION

A.Requests for information are to be submitted to the Architect/Engineer by the General Contractor.

B. Sufficient back-up information shall be included to describe the situation. Where possible a suggested solution shall be included to facilitate response time. 1.07 QUALITY ASSURANCE

A.Manufacturer Qualifications: Company specializing in manufacturing products

specified in this section, with not less than three years of experience. B. Installer Qualifications: Company specializing in performing the work of this section with minimum five years of experience.

C.Products Requiring Electrical Connection: Listed and classified by UL as suitable for the purpose specified and indicated.

1.08 REGULATORY REQUIREMENTS

A. All materials, equipment and installation must comply with all applicable laws, codes, rules, and regulations, required by City, County and State, as well as Federal requirements.

1.09 WARRANTY A. Contractor shall guarantee all materials, equipment and workmanship from defect and shall replace or repair, without additional cost to the Owner, all defective material, equipment and workmanship for a period of one year after Date of

Substantial Completion. B. Submit manufacturers' warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

PART 2 PRODUCTS 2.01 ACCEPTABLE MANUFACTURERS A. Manufacturer's names and catalog numbers are scheduled or specified for the purpose of establishing standard of design, quality, appearance, performance and serviceability, and not to limit competition. Scheduled products (as may be modified by detailed specifications) are those selected as the basis for system design with respect to physical size and space arrangements, required capacity and performance characteristics, and the product quality intended.

B. The Drawings indicate specified products physically arranged in the spaces, as cataloged by specific manufacturers, generally as listed in the Equipment Schedules. C.Listed "Acceptable Manufacturers" are those considered capable of manufacturing products conforming to detailed Specifications, as as such, are invited to compete on an equal basis provided the offering is comparable in every respect to scheduled or specified products and actually conforms to the detailed Specifications and Schedule requirements. Listing herein as "acceptable manufacturers" does not imply "accepted", "approved", "prior approval", or any other such connotation. All product offerings must be submitted for approval after Contract award.

D. Acceptable Manufacturers: 1. Pumps: Armstrong, Taco

2. Underfloor Radiant Panels: Warm Board

3. Exhaust and Supply Fans: Greenheck, Cook, Twin City 4. Grilles, Registers and Diffusers: Sieho, Air Concepts 5. Valves: Apollo, Nibco, Milwaukee, Crane

6. Flow Controls: ITT Bell & Gossett, Griswold, Taco, Warm Board

E. Substitutions of materials or products shown herein shall be at the Owner's, Architect's or Engineer's written approval only and must be made in accordance with the Architect's requirements.

2.02 FLAME SPREAD AND SMOKE DEVELOPED PROPERTIES OF MATERIALS A. Material and adhesives used throughout the mechanical systems for insulation, acoustical lining, filters, ducts, flexible connections, and jackets or coverings regardless of kind, or for piping or continued combustion and with a smoke developed rating not higher than 50. If such materials are to be applied with adhesives, they shall be tested as applied with such adhesives, or the adhesives used shall have a flame spread rating not over 25 and a smoke developed rating not

higher than 50. B. "Flame Spread Rating" and "Smoke Developed Rating" shall be as determined by the "Method of Test of Surface Burning Characteristics of Building Materials, NFPA No. 255, ASTM E84, Underwriters Laboratories, Inc., Standard". Such materials are listed in the Underwriters Laboratories, Inc. "Building Materials List" under the

heading "Hazard Classifications (Fire)". 2.03 IDENTIFICATION OF PIPING, AND EQUIPMENT

A. Markings - Identify each piping system installed wherever accessible for maintenance operations with the direction of flow (where applicable) indicated by legends and flow arrows. The markings shall be applied after all painting and cleaning of the piping and insulation is completed.

B. Apply identification to piping throughout, the mechanical rooms and valve boxes

2.04 ELECTRIC MOTORS

A. Shall conform to the requirements of IEEE, NEMA, and shall have voltage, phase, frequency and service as scheduled.

B. Each item of motor driven equipment shall be furnished complete with the motors, drives and control equipment, including remote pilot devices as required to perform the specific function for which it is intended.

C.Motors shall be sleeve or ball bearing type selected for quiet operation, shall be manufactured for general purpose duty, with each bearing accessible for lubrication, and designed for the load imposed by the drive.

D.Motors 1/2 horsepower and larger shall have bearings with pressure grease E. Motors connected to drive equipment by belt shall be furnished with adjustable slide

rail bases except for fractional horsepower motors which shall have slotted bases. Motor leads shall be permanently identified and supplied with connectors. F. Each motor shall be suitable for the brake horsepower of the driven unit, rated with 1.15 minimum service factor, with the temperature rise not to exceed NEMA

standards and shall be capable of withstanding momentary overloads of 25 percent without injurious overheating. 2.05 MOTOR STARTERS

A. Except where otherwise specified or scheduled, each starter shall be furnished by

the supplier who furnishes the equipment it controls. B. Provide a manual or magnetic starter for each motor. They shall be as

recommended by the equipment manufacturer.

2.06 ACCESS DOORS

A. Furnish, for installation under appropriate Section of the Work, access doors at each point required to provide access to concealed valves, dampers, damper operators, and other devices requiring operation, adjustment, or maintenance. See archictects plans for details

2.07 SLEEVES, INSERTS, ANCHORS AND SUPPORTS A.Provide in concrete, carpentry or masonry construction, hangers, sleeves, expansion bolts, inserts, supporting steel, or other fixtures necessary for the support of pipe,

equipment and devices furnished under each Section of the Specifications. B. Provide each pipe, conduit, or duct passing through fire, smoke or sound control walls, floors, ceilings or partitions with sleeves having internal dimension approximately 1-inch larger than the outside dimension (including insulation) of

pipes, conduits or ducts. C. Sleeves (when required) through interior partitions and floors shall be no less than 22 gage galvanized steel, set flush with the finished surfaces.

A. Seal annular spaces between sleeves and penetrating materials in fire rated floors, ceilings, and walls with fireproof and waterproof silicone elastomer applied in accordance with the manufacturer's published instructions. Multiple penetrations shall be sealed with silicone calking. Seal material shall be UL classified for use in fire rated penetration seals, and shall be applied in the manufacturer's recommended thickness for the fire rating of the penetrated structure in accordance with ASTM E-814 requirements.

2.09 ESCUTCHEONS

A. Provide escutcheons or 22 gage minimum painted galvanized sheet metal wall flanges (in event standard manufactured product does not exist) for mechanical or electrical penetrations of floors, ceilings, walls or partitions. Escutcheons shall be sized to enclose the outside of the penetration sleeve and fit snugly to the pipe (or over outside of insulation) of insulated lines. Both exposed surfaces of such penetrated elements shall be fitted with escutcheons which shall both afford a finished appearance.

B. Except where otherwise specified, escutcheons shall be one-piece (where practicable) or split, hinged, stamped brass type designed to fit the pipe, and to cover the terminating pipe sleeve, in chrome plated finish, with securing device to hold the escutcheon tight to the pipe.

2.10 FLASHINGS

A. Furnish weatherproof flashings for mechanical system related openings through the roof for installation under roofing specification. See arch drawings for all flashings requirements

2.11 THERMOSTATS

A. Electric Room Thermostats:

1. Type: NEMA DC 3, 24 volts, with setback/setup temperature control. Thermostats shall be Wi-Fi compatible for integration into Home Automation

a. Seven day programmable with set-back capabilities per current IECC. Service: heating.

B. Thermostats must be located 48" above finished floor to centerline of device. Verify exact location with Architect

A. Fabricate and support in accordance with SMACNA HVAC Duct Construction Standards - Metal and Flexible, International Mechanical Code and as indicated. Provide duct material, gages, reinforcing, and seal all longitudinal and transverse joints with DP-1010, for operating pressures of 2.0" static pressure and below.

B. Each duct system shall be complete with all required ductwork fittings, turning vanes, splitter dampers and supports.

C. Galvanized Steel Ducts: Hot-dipped galvanized steel sheet, ASTM A 653/A 653M FS Type B, with G90 coating. D. Joint Sealers and Sealants: Non-hardening, water resistant, mildew and mold

1. Type: Heavy mastic or liquid used alone or with tape, suitable for joint configuration and compatible with substrates, and recommended by manufacturer

for pressure class of ducts. 2. Surface Burning Characteristics: Flame spread of zero, smoke developed of zero, when tested in accordance with ASTM E 84.

E. Crossbreak all sides of all ducts. Ductwork shall have no objectionable noise, and Contractor shall provide any additional stiffeners required.

F. All longitudinal seams shall be Pittsburgh lock seam, hammered flat, with all transverse joints sealed airtight.

G.Construct T's bends, and elbows with radius of not less than 1-1/2 times width of duct on centerline. Where not possible and where rectangular elbows must be used, provide air foil turning vanes of perforated metal with glass fiber insulation. I. Ductwork shall conform to dimensions on the drawings unless locations of structural

members prohibit. In case of changes in dimensions, cross sectional areas shall be

maintained. Attach hangers to the top cord of trusses. J. All duct sizes shown on the drawings are clear inside dimension. Increase size of

duct as required to accommodate duct liner. K. All ducts shall be substantially supported with hangers to the structure or otherwise depending on location conditions. Hangers shall conform to all SMACNA and IMC

P. Standard 45 degree lateral wye takeoffs unless otherwise indicated where 90 degree conical tee connections may be used. Q. Where ducts are connected to exterior wall louvers and duct outlet is smaller than

louver frame, provide blank-out panels sealing louver area around duct. Use same material as duct, painted black on exterior side, seal to louver frame and duct. 2.13 DUCTWORK PRESSURE CLASS

A.General Exhaust: 1 inch w.g. (250 Pa) pressure class, galvanized steel. B.Outside Air Intake: 1 inch w.g. (250 Pa) pressure class, galvanized steel. 2.14 DUCTWORK INSULATION

A. Glass Fiber, Flexible 1. Insulation: ASTM C 553; flexible, noncombustible blanket.

Vapor Barrier Jacket: a. Kraft paper with glass fiber yarn and bonded to aluminized film. b. Moisture Vapor Permeability: when tested in accordance with

1) ASTM E 96. 2) Secure with Pressure sensitive tape.

1. Insulation: Incombustible glass fiber complying with ASTM C 1071; flexible blanket; impregnated surface and edges coated with poly vinyl acetate polymer or

2. Liner Fasteners: Galvanized steel, self-adhesive pad; impact applied; or welded

acrylic polymer shown to be fungus and bacteria resistant by testing to ASTM G

with integral; or press-on head. 2.15 GRILLES, REGISTERS AND DIFFUSERS

2. Joints: Mechanical compression fittings.

A. Furnish and install all grilles, registers, ceiling diffusers and door grilles where indicated. They shall be of size and model called for on the drawings.

B. All grilles, registers, and ceiling diffusers must be set flush and true to wall or ceiling to prevent air leakage around edges. All units shall be provided with neoprene gasketing around the inside of the frame.

C.Check location of outlets and inlets and make necessary adjustments in position to conform with architectural features, symmetry, and lighting arrangement. D. All units shall be factory finished, of color selected by the Architect, or as otherwise

E. Paint all ductwork, turning vanes, insulation, etc., that is visible through grilles, registers, or ceiling diffusers flat black.

2.16 RADIANT HEATING PIPING A.Polyethylene Pipe: ASTM F876 or ASTM F877, ASTM F877 cross-linked

polyethylene, 100 psig (690 kPa) operating pressure at 180 degrees F (82 degrees Fittings: Brass and copper.

B. Composite Polyethylene Pipe: Aluminum tube laminated between two layers of high density polyethylene. Fittings: Brass flared compression.

2. Joints: Fittings adapt to copper tubing or copper tube fittings, threaded pipe and fittings, and copper compression fittings.

2.17 UNIONS, FLANGES, AND COUPLINGS A. Grooved and Shouldered Pipe End Couplings: 1. Housing Clamps: Malleable iron galvanized to engage and lock, designed to permit some angular deflection, contraction, and expansion.

2. Sealing Gasket: C-shape elastomer composition for operating temperature range from -30 degrees F (-34 degrees C) to 230 degrees F (110 degrees C). 3. Accessories: Steel bolts, nuts, and washers.

B. Dielectric Connections: Union with galvanized or plated steel threaded end, copper solder end, water impervious isolation barrier. 2.18 BALL VALVES

A.Up To and Including 2 Inches (50 mm):

1. Bronze two piece body, chrome plated brass ball, teflon seats and stuffing box ring, lever handle with balancing stops, solder ends with union. 2.19 GLYCOL SYSTEM

A.Mixing Tank: 10 gallon (40 L) steel drum with fittings suitable for filling and hand pump for charging, rubber hose for connection of hand pump to system. B. Storage Tank: Closed type, welded steel constructed, tested and stamped in accordance with ASME BPVC-VIII-1

https://global.ihs.com/doc_detail.cfm?rid=BSD&document_name=ASME%20BPVC-VIII-1; 100 psi (690 kPa) rating; cleaned, prime coated, and supplied with steel support saddles. Construct with tappings for installation of accessories. C.Expansion Tank: Diaphragm type with vent fitting with air separator, and automatic

D. Air Pressure Reducing Station: Pressure reducing valve with shut-off valves, strainer, check valve and needle valve bypass.

1. Inhibited ethylene glycol and water solution mixed 50 percent glycol - 50 percent water, suitable for operating temperatures from minus 40 degrees F (minus 40 degrees C) to 250 degrees F (121 degrees C).

2.20 3-WAY CONTROL VALVES A. Globe with mixed flow pattern. ASMA B16.5 Class 125 cast bronze with threaded connections.DTFE -V ring, stainless steel trim.

E. Glycol Solution:

2.21 SWING CHECK VALVES A.Up To and Including 2 Inches (50 mm): 1. Bronze body, bronze trim, bronze rotating swing disc, with composition disc, 2.22 HVAC PIPING INSULATION

A. Heating Systems: Radiant Heat:

a. Flexible Elastomeric Cellular Insulation:

1) Pipe Size Range: All sizes. 2) Thickness: 1 inch.

PART 3 EXECUTION 3.01 PROTECTION OF EQUIPMENT

A.Protect equipment from physical damage and deterioration after it is delivered to the Project, and during the installation period prior to Owner acceptance.

B. The equipment shall be kept clean. Motors and electrical devices shall be covered with suitable materials to prevent dirt or dust accumulation within equipment. Machinery and devices shall be properly oiled and maintained to prevent rusting and deterioration. C.Repair scratches, mars, or paint deterioration.

3.02 EQUIPMENT SPACE

A. The Drawings indicate specified products physically arranged in the spaces, as cataloged by specific manufacturers, generally as listed in the Equipment Schedules.

B. Prepare Shop Drawings indicating the exact physical space requirements for equipment and servicing of equipment actually purchased for each item of equipment involved. NOTE: Physical space required for equipment servicing must be shown on Shop Drawings.

C.Drawings show pipe and ductwork diagrammatically. D. Adhere to Drawings as closely as possible in layout of work.

E. Vary run of piping, run and shape of ductwork and make offset during progress of work as required to meet structural and other interferences per accepted Shop Drawings.

F. Install piping and ductwork in furred spaces wherever possible. Run exposed piping

and ductwork parallel to or at right angles to building walls. G.Keep horizontal lines as close to ceiling as practicable. H. Conform to ceiling heights established on architectural construction drawings.

3.03 HVAC DUCTWORK INSTALLATION A.Install accessories in accordance with manufacturer's instructions, NFPA 90A, and follow SMACNA HVAC Duct Construction Standards - Metal and Flexible. Contractor shall verify that ductwork will fit where indicated without interference prior

B. All exhaust systems shall have barometric dampers to close when not in operation. 3.04 DUCTWORK INSULATION INSTALLATION

A.Install in accordance with manufacturer's instructions. B. Install in accordance with NAIMA National Insulation Standards.

C.Insulated duct conveying air below ambient temperature: Provide insulation with vapor barrier jackets.

Finish with tape and vapor barrier jackets. 3. Continue insulation through walls, sleeves, hangers, and other duct penetrations. 4. Insulate entire system including fittings, joints, flanges, fire dampers, flexible

connections, and expansion joints. D. Duct and Plenum; Liner Application:

to installation.

 Adhere insulation with adhesive for 100 percent coverage. 2. Secure insulation with mechanical liner fasteners. Refer to SMACNA HVAC Duct Construction Standards - Metal and Flexible for spacing.

3. Seal and smooth joints. Seal and coat transverse joints. 4. Seal liner surface penetrations with adhesive.

5. Duct dimensions indicated are net inside dimensions required for air flow.

Increase duct size to allow for insulation thickness. 3.05 HVAC PIPING INSTALLATION A.Ream pipe and tube ends. Remove burrs.

B. Remove scale and dirt on inside and outside before assembly. C.Prepare piping connections to equipment with flanges or unions.

D. Keep open ends of pipe free from scale and dirt. Protect open ends with temporary plugs or caps. E. After completion, fill, clean, and treat systems.

F. Install in accordance with manufacturer's instructions. G.Route piping in orderly manner, parallel to building structure, and maintain gradient. H.Install piping to conserve building space and to avoid interference with use of space.

I. Group piping whenever practical at common elevations. J. Sleeve pipe passing through partitions, walls and floors.

K. Slope piping and arrange to drain at low points. L. Provide support and equipment required to control expansion and contraction of piping. Provide loops, pipe offsets, and swing joints, or expansion joints where

M.Install flexible pipe connectors on pipes connected to vibration isolated equipment. Provide line size flexible connectors. Install in accordance with EJMA (Expansion Joint Manufacturers Association) Standards.

N.Install flexible connectors at right angles to displacement. Install one end

immediately adjacent to isolated equipment and anchor other end. Install in horizontal plane unless indicated otherwise.

O.Inserts: 1. Provide inserts for placement in concrete formwork.

2. Provide inserts for suspending hangers from reinforced concrete slabs and sides of reinforced concrete beams. 3. Provide hooked rod to concrete reinforcement section for inserts carrying pipe

over 4 inches (100 mm). 4. Where concrete slabs form finished ceiling, locate inserts flush with slab surface. 5. Where inserts are omitted, drill through concrete slab from below and provide through-bolt with recessed square steel plate and nut recessed into and grouted

flush with slab. P. Pipe Hangers and Supports:

1. Install in accordance with ASME B31.9.

Support horizontal piping as scheduled. 3. Install hangers to provide minimum 1/2 inch (13 mm) space between finished covering and adjacent work.

4. Place hangers within 12 inches (300 mm) of each horizontal elbow. 5. Use hangers with 1-1/2 inch (38 mm) minimum vertical adjustment. Design hangers for pipe movement without disengagement of supported pipe.

6. Support vertical piping at every floor. Support riser piping independently of connected horizontal piping. 7. Where several pipes can be installed in parallel and at same elevation, provide multiple or trapeze hangers.

8. Provide copper plated hangers and supports for copper piping.

9. Prime coat exposed steel hangers and supports. Hangers and supports located in crawl spaces, pipe shafts, and suspended ceiling spaces are not considered Q.Hanger Spacing for Copper Tubing.

T. Provide access where valves and fittings are not exposed.

U.Use eccentric reducers to maintain top of pipe level.

1. 1/2 inch (15 mm) and 3/4 inch (20 mm): Maximum span, 5 feet (1500 mm); minimum rod size, 1/4 inch (6 mm). S. Provide clearance in hangers and from structure and other equipment for installation of insulation and access to valves and fittings.

V. Where pipe support members are welded to structural building framing, scrape, brush clean, and apply one coat of zinc rich primer to welds. W. Prepare unfinished pipe, fittings, supports, and accessories, ready for finish

X.Install valves with stems upright or horizontal, not inverted. Y. Valves installed in insulated pipe shall be furnished with extended stems to allow the full insulation thickness to be provided and to allow the valve to be operated without

3.06 CUTTING AND PATCHING

A. Assume costs and responsibility for cutting and patching required to complete the

B. Surfaces shall be patched to the condition of the adjacent surfaces.

A. Finish painting (other than factory applied) of mechanical equipment, and its associated piping and ductwork, is scheduled under other Sections. Provide touchup painting of prefinished mechanical products.

furnished in prime coat finish ready for finish coats 1. Piping, ductwork and equipment - Clean exterior of piping, ductwork and

2. Motors, pumps and other items with factory finish - Remove grease and oil and leave surfaces clean and polished.

I. Water System procedure

1. Adjust water systems to provide required or design quantities. 2. Use fittings and pressure gauges to determine flow rates for system balance. difference across various heat transfer elements in the system or pressure

temperature differential in conjunction with air balancing. 4. Effect system balance with automatic control valves fully open to heat transfer

indexed for balance point.

3.07 PAINTING AND FINISHING AND CLEANING

16-101 B. Surfaces shall be left clean, debris shall be removed, and equipment shall be

equipment, removing rust, plaster and dirt by wire brushing. Remove grease, oil, and similar materials by wiping with clean rags and suitable solvents.

3.08 TESTING, ADJUSTING AND BALANCING

Where flow metering devices are not installed, base flow balance on temperature difference across chiller or pumps.

3. Adjust systems to provide specified pressure drops and flows through heat transfer elements prior to thermal testing. Perform balancing by measurement of

5. Effect adjustment of water distribution systems by means of balancing cocks,

END OF SECTION

valves, and fittings. Do not use service or shut-off valves for balancing unless

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EXPIRES 03/31/19

PLAN REVIEW ACCEPTANCE FOR COMPLIANCE WITH THE APPLICABLE MECHANICAL PLUMBING XELECTRICAL XENERGY ACCESSIBILITY FIRE PLAN REVIEW ACCEPTANCE OF DOCUMEN STATE, OR LOCAL REGULATIONS. MEM

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PLUMBING CONSTRUCTION NOTES

- . EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
- 2. BEFORE SUBMITTING BID, THE PLUMBING CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS AND INCLUDE IN HIS BID AN AMOUNT TO FURNISH AND INSTALL ANY FIXTURES WHICH ARE SHOWN IN ADDITION TO FIXTURES SHOWN ON THE PLUMBING DRAWINGS.
- 3. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED BEFORE MAKING UP OR INSTALLATION OF NEW WASTE
- 4. CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
- 5. THE INSTALLATION OF ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING EQUIPMENT. OR SPECIALTIES REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENT, INSPECTION, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED
- 6. ALL VENTS THROUGH ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR INTAKES, EVAPORATIVE COOLERS, ETC.
- 7. MINIMIZE THE ROOF PENETRATIONS WHEREVER POSSIBLE, TIE VENTS TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH THE ROOF. SEE PLAN FOR VENT THROUGH ROOF LOCATIONS.
- 8. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- 9. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTIONS OF DISSIMILAR
- 10. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES FOR SPECIAL EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.
- 11. VERTICAL STRAIGHT RUNS OR PVC DWV SHALL BE PROTECTED FROM EXPANSION AND CONTRACTION UTILIZING ONE OR MORE OF THE FOLLOWING METHODS: PROVIDE A MINIMUM OF 24 INCHES, 45 DEGREE OFFSETS EVERY 30 FEET. PROVIDE CERTIFIED AND LISTED EXPANSION FITTINGS AS MANUFACTURED BY CANPLAS INDUSTRIES, LTD., OR EQUAL, IN VERTICAL RUNS IN EXCESS OF 30
- INSTRUCTIONS. 12. WHEN WATER PIPE AND SEWERS ARE LAID PARALLEL TO EACH OTHER, ONE OF THE FOLLOWING PROCEDURES MUST BE FOLLOWED:

THE HORIZONTAL DISTANCE BETWEEN THE WATER PIPE AND SEWER SHALL NOT

BE LESS THAN SIX (6) FEET. EACH LINE SHALL BE LAID IN A SEPARATE

FEET PROVIDED THAT THEY ARE INSTALLED PER MANUFACTURER'S INSTALLATION

- TRENCH OR THE SPACE IN BETWEEN FILLED WITH COMPACT FILL. THE WATER SERVICE PIPE MAY BE PLACED IN THE TRENCH WITH THE BUILDING DRAIN AND/OR BUILDING SEWER, PROVIDED THE BOTTOM OF THE WATER SERVICE PIPE, AT ALL POINTS SHALL BE AT LEAST TWELVE (12) INCHES ABOVE THE TOP OF THE SEWER LINE, AND SHALL BE PLACED ON A SOLID SHELF EXCAVATED AT ONE SIDE OF THE COMMON TRENCH. SAID WATER SERVICE AND SEWER SHALL BE CONSTRUCTED OF MATERIALS APPROVED FOR USE WITHIN A BUILDING AND PRESSURE TESTED TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING.
- WATER SERVICE SHALL BE COPPER TO A MINIMUM 10'-0" OUTSIDE OF BUILDING FOR ELECTRICAL GROUNDING PURPOSES.

LOT 124 WATER CA	ALCULATI	ON			2015 IPC
FIXTURE NAME	<u> </u>		<u>NO.</u>	<u>F.U.</u>	<u>TOT.</u>
WATER CLOSET (F.T.) LAVATORY KITCHEN SINK DISHWASHER			4 x 1 x	2.2 = 0.7 = 1.4 = 1.4 =	8.8 2.8 1.4 1.4
CLOTHES WASHER SHOWER BATHTUB			1 x 2 x	1.4 = 1.4 = 1.4 =	1.4 2.8 1.4
TOTAL FIXTURE UNITS	IO DED AUNITE (0.5.4.)			20.0
20.0 FIXTURE UNITS = 19.6 GALLOI ADDITIONAL GPM HOSE BIBB	NS PER MINUTE (G.P.M.)	NO. 1 × 0 ×		<u>TOT.</u> 5 0
TOTAL DESIGN GPM FOR TYPICAL U	NITS				24.6
24.6 GPM DESIGN USE 11/2" PIPE EN	NTRANCE				
PIPE LENGTH TAP TO METER PIPE LENGTH METER TO LAST FIXTU VERTICAL PIPE LENGTH TO HIGHEST TOTAL PIPE LENGTH FITTING LOSS (25%) TOTAL DEVELOPED LENGTH				11 3 14 3	0 FT. 0 FT. 5 FT. 5 FT. 5 FT. 0 FT.
WATER PIPE SIZING CRITERIA					
STREET PRESSURE (TO BE VERIFIED WATER METER LOSS (0" METER) STATIC LOSS (35' x 0.43) PRESSURE RESERVED FOR FIXTURES	•			8.0 15.0	00 PSI 00 PSI 05 PSI 00 PSI
PRESSURE AVAILABLE FOR PIPING			_	11.9	5 PSI
11.95 PSI / 180 FEET x 100 = 0		MUM PSI DROP ALLOWABLE 100 FEET PIPE LENGTH			
COPPER BRANCH PIPE SIZING CHAR	T FOR 6.64 PSI I	OSS AND MAX VELOCITY OF	7 FPS		
PIPE SIZE	G.P.M.	F.U.(TANK)	F.U.(F.V.)		
1/2" 3/4" 1" 1-1/4" 1-1/2"	2 6 15 25 40	- 3 10 35 85	- 5 9 27		

225

130

. OT 400 MATER O	A	FLOAL		2015 IPC
LOT 133 WATER C	ALCULA	<u>HON</u>		
FIXTURE NAME			<u>NO.</u>	<u>F.U.</u> <u>TOT.</u>
WATER CLOSET (F.T.) LAVATORY				2.2 = 8.8 0.7 = 2.8
KITCHEN SINK			1 x	1.4 = 1.4
DISHWASHER CLOTHES WASHER				1.4 = 1.4 1.4 = 1.4
SHOWER			2 x	1.4 = 2.8
BATHTUB TOTAL FIXTURE UNITS			1 X	1.4 = 1.4
20.0 FIXTURE UNITS = 19.6 GALL	ONS PER MINUTE	(G P M)		20.0
ADDITIONAL GPM	5.10 1 EK MIIITO IL	(<u>NO.</u>	GPM TOT.
HOSE BIBB			1 x	5 = 5
			0 x	0 = 0
TOTAL DESIGN GPM FOR TYPICAL 24.6 GPM DESIGN USE 1½" PIPE				24.6
24.0 GPM DESIGN USE 192 FIFE	ENTRANCE			
PIPE LENGTH TAP TO METER PIPE LENGTH METER TO LAST FIX	TIIDE			30 FT. 110 FT.
VERTICAL PIPE LENGTH TO HIGHES				35 FT.
TOTAL PIPE LENGTH FITTING LOSS (25%)				145 FT. 35 FT.
TOTAL DEVELOPED LENGTH				180 FT.
WATER PIPE SIZING CRITERIA				
STREET PRESSURE (TO BE VERIFIED AND A VETER)	ED)			60.00 PSI
WATER METER LOSS (0" METER) STATIC LOSS (35' x 0.43)				8.00 PSI 15.05 PSI
PRESSURE RESERVED FOR FIXTUR	ES			25.00 PSI
PRESSURE AVAILABLE FOR PIPING			_	11.95 PSI
11.95 PSI / 180 FEET x 100 =		XXIMUM PSI DROP ALLOWABLE R 100 FEET PIPE LENGTH		
COPPER BRANCH PIPE SIZING CHA	ART FOR 6.64 PS	I LOSS AND MAX VELOCITY OF	<u>7 FPS</u>	
PIPE SIZE	G.P.M.	F.U.(TANK)	F.U.(F.V.)	
1/2"	2	_ 7	_	
3 / 4" 1"	6 15	3 10	_ 5	
1-1/4" 1-1/2"	25 40	35 85	9 27	
2"	70	225	130	
-	. 3		-	

TYPICAL UNIT WA	TED CALC			2015 IPC
	TER CALC	JULATION		
FIXTURE NAME			<u>NO.</u> <u>I</u>	
WATER CLOSET (F.T.) LAVATORY				2.2 = 6.6 0.7 = 2.1
KITCHEN SINK			1 x	1.4 = 1.4
DISHWASHER CLOTHES WASHER				1.4 = 1.4 1.4 = 1.4
SHOWER BATHTUB			2 x	1.4 = 2.8
TOTAL FIXTURE UNITS			1 x	17.1
17.1 FIXTURE UNITS = 18.5 GALL	ONS PER MINUTE (G.P.M.)		
ADDITIONAL GPM	`	,	<u>NO.</u>	GPM TOT.
HOSE BIBB			1 x	5 = 5
TOTAL DECICAL CODE TYPICAL	LIMITO		0 x	0 = 0
TOTAL DESIGN GPM FOR TYPICAL 23.5 GPM DESIGN USE 1½" PIPE				23.5
23.3 GIW DESIGN USE 172 THE	LITINANOL			
PIPE LENGTH TAP TO METER PIPE LENGTH METER TO LAST FIX	TIIDE			30 FT. 110 FT.
VERTICAL PIPE LENGTH TO HIGHE				35 FT.
TOTAL PIPE LENGTH FITTING LOSS (25%)				145 FT. 35 FT.
TOTAL DEVELOPED LENGTH				180 FT.
WATER PIPE SIZING CRITERIA				
STREET PRESSURE (TO BE VERIFI	ED)			60.00 PSI
WATER METER LOSS (0" METER) STATIC LOSS (35' x 0.43)	·			8.00 PSI 15.05 PSI
PRESSURE RESERVED FOR FIXTUR	ES			25.00 PSI
PRESSURE AVAILABLE FOR PIPING	;			11.95 PSI
11.95 PSI / 180 FEET x 100 =		IMUM PSI DROP ALLOWABLE 100 FEET PIPE LENGTH		
COPPER BRANCH PIPE SIZING CH	ART FOR 6.64 PSI	LOSS AND MAX VELOCITY OF	7 FPS	
PIPE SIZE	G.P.M.	F.U.(TANK)	F.U.(F.V.)	
1/2"	2	-	_	
3 [/] /4" 1"	6 15	3 10	<u> </u>	
1-1/4"	25	35	9	
1-1/2 2"	4 0 70	85 225	27 130	
				ı

SERVICE	PIPE	FITTINGS
SANITARY DRAIN, WASTE AND VENT, AND RAINWATER INTERIOR, ABOVE AND BELOW GRADE	PVC SCH 40 DMV, SOLID CORE, PLAIN END, CONFORMING TO ASTM D2665	PVC SCH 40 DMV, SOLVENT WELDED WITH ASTM D2564 CEMENT. LO-V.O.C. CONTENT
SUB-SLAB AND FOUNDATION DRAINAGE PIPING	PVC SCH 40 DMV, PERFORATED, SOLID CORE, PLAIN END CONFORMING TO ASTM D2665	PVC SCH 40 DMV, SOLVENT WELDED WITH ASTM D2564 CEMENT. LO-V.O.C. CONTENT
WATER PIPING BELOW GRADE	TYPE "K" SOFT TEMPER COPPER TUBING	NO JOINTS PERMITTED BELOW FLOOR
WATER PIPING ABOVE GRADE AND IN EXPOSED AREAS	TYPE "L" HARD DRAWN COPPER	WROUGHT COPPER SOLDE TYPE CONFORMING TO ASME B16.22
WATER PIPING UNIT DISTRIBUTION IN CONCEALED LOCATIONS	PEX FLEXIBLE TUBING CONFORMING TO ASTM E84, E119, E814, F876, F877, AND F1960.	BRASS FITTINGS ASTM F1807, F877
RADON GAS VENT PIPING	PVC SCH 40 DMV, SOLID CORE, PLAIN END, CONFORMING TO ASTM D2665	PVC SCH 40 DMV, SOLVENT WELDED WITH ASTM D2564 CEMENT. LO-V.O.C. CONTENT

ALL ABOVE GROUND WATER PIPING, VALVES, FITTINGS AND ACCESSORIES SHALL BE INSULATED WITH ARMAFLEX 3"THICK (R5), AT A MINIMUM, CLOSED CELL FOAM INSULATION OR APPROVED EQUAL. ALL PIPING IN AREAS PRONE TO FREEZING SHALL BE PROVIDED WITH A HEAT TRACING SYSTEM, COORDINATE REQUIREMENTS AND INSTALLATION WITH ELECTRICAL CONTRACTORS.

PEX PIPING INSIDE WALLS, PROVIDE COPPER TUBING AND CHROME PLATED ANGLE STOPS EXITING WALLS AND IN EXPOSED AREAS.

11.55 1 5		
E	PLU	MBING FIXTURE SCHEDULE
<u>OF 7 FPS</u>	WC-1	FLUSH TANK WATER CLOSET: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.
F.U.(F.V.) _	L-1	COUNTERTOP LAVATORY: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.
_ 5 9	L-2	WALL HUNG LAVATORY: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.
9 27 130	KS	KITCHEN SINK: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.
100	D	DISPOSER: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.
	SHR	SHOWER: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.
	ВТ	BATHTUB: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.
	LT	LAUNDRY TUB: SEE ARCHITECTURAL DRAWINGS FOR PLUMBING FIXTURE SPECIFICATIONS.
ITINGS	FD-1	FLOOR DRAIN: WATTS DRAINAGE FD-100-A5 CAST IRON TWO PIECE DRAINS WITH EPOXY COATED CAST IRON BODY AND COMPRESSION SEAL OUTLET. PROVIDE WITH 5"ROUND ADJUSTABLE NICKEL BRONZE STRAINER. WHERE INSTALLED IN SURFACES HAVING WATERPROOFING MEMBRANE, PROVIDE DRAINS WITH NON-PUNCTURING
C SCH 40 DMV, DEVENT WELDED WITH STM D2564 CEMENT.		BODY AND COMPRESSION SEAL OUTLET. PROVIDE WITH 5"ROUND ADJUSTABLE NICKEL BRONZE STRAINER.
-V.O.C. CONTENT	FS-1	FLOOR SINK: WATTS DRAINAGE FS-730-1 12" X 12" X 6" CAST IRON ENAMELED FLOOR SINK WITH NICKEL BRONZE RIM & GRATE AND ALUMINUM DOME BOTTOM STRAINER. SEE PLANS FOR SIZES. PROVIDE 1/2 OR 3/4 GRATE AS REQUIRED.
'C SCH 40 DMV, DLVENT WELDED WITH STM D2564 CEMENT.		PROVIDE PROVENT'S TRAP GUARD
-V.O.C. CONTENT	HB-1	HYDRANT (FREEZELESS): WATTS DRAINAGE HY-500-VB CONCEALED NON-FREEZE DECK HYDRANT COMPLETE WITH NICKEL BRONZE BOX AND DOOR, BRONZE CASING, BRONZE INTERNAL WORKING PARTS, LOOSE KEY OPERATION AND VACUUM BREAKER. COMPLIES WITH ASSE 1019-2004, UPC/IAPMO LISTED. MAXIMUM OPERATING PRESSURE 125 PSI. VERIFY BURY DEPTH WITH ARCHITECT.
ROUGHT COPPER SOLDER	RVB	REFRIGERATOR VALVE BOX: OATEY 39152 6" X 6" X 3-3/8" DEEP PLASTIC REFRIGERATOR VALVE BOX WITH LOW LEAD 1/4 TURN BRASS BALL VALVE - COPPER SWEAT CONNECTION.
PE CONFORMING TO ME B16.22	WB	WASHER MACHINE OUTLET BOX: OATEY CENTRO II 8" X 4-3/4" X 3" DEEP PLASTIC WASHING MACHINE OUTLET BOX WITH 1/4 TURN BRASS BALL VALVES WITH WATER HAMMER ARRESTORS - COPPER SWEAT CONNECTION.
ASS FITTINGS TM F1807, F877	DS-1	DOWNSPOUT: WATTS RD-940 CAST NICKEL BRONZE DOWNSPOUT NOZZLE WITH ANCHOR FLANGE, COUNTERSUNK HOLES AND NO HUB CONNECTION. PROVIDE SAME DIAMETER AS STORM PIPING SHOWN ON PLANS.

PLUMBING FIXTURE CONNECTION SCHEDULE

DESCRIPTION

WATER CLOSET TANK TYPE

LAVATORY

LAVATORY

KITCHEN SINK

SHOWER

BATHTUB

FLOOR DRAIN

FLOOR SINK

REFRIGERATOR VALVE BOX

WASHING MACHINE BOX

HOSE BIBB

MARK

<u>WC−1</u>

<u>L-1</u>

<u>L-2</u>

<u>SK</u>

<u>SHR</u>

<u>FD-1</u>

<u>RVB</u>

TRAP SIZE

INTEGRAL

1-1/2"

1-1/2"

1-1/2"

1-1/2"

2" - 4"

WASTE

VENT

1-1/2"

1-1/2"

1-1/2"

1-1/2"

1-1/2"

1-1/2"

|2" - 4" | 1-1/2" - 2"

2" - 4" | 2" - 4" | 1-1/2" - 2"

COLD

1/2"

1/2"

1/2"

3/4"

3/4"

3/4"

3/4"

WATER | WATER

HOT

1/2"

1/2"

1/2"

3/4"

3/4"

REMARKS

1/2" (COUNTER-TOP MOUNT)

(WALL MOUNT)

SEE FLOOR PLAN FOR SIZES

SEE FLOOR PLAN FOR SIZES

W/ HAMMER ARRESTOR

W/ VACUUM BREAKER

3/4" | W/ HAMMER ARRESTOR

FIXTURE FLOW REQUIREMENTS

KITCHEN SINK FAUCETS

ALL PLUMBING FIXTURES SHALL HAVE FLOW REDUCERS OR BE SO CONSTRUCTED TO MEET THE FOLLOWING REQUIREMENTS BASED ON 2015 NATIONAL GREEN BUILDING STANDARD:

ROOF DRAIN: WATTS RD-250 EPOXY COATED CAST IRON BODY WITH DECK FLANGE, FLASHING CLAMPS WITH INTEGRAL GRAVEL GUARD, OVERFLOW STANDPIPE SELF LOCKING CAST IRON DOME AND NO-HUB OUTLETS. SEE PLANS FOR SIZES.

WATER CLOSET (TANK TYPE) 1.28 GALLONS PER FLUSH LESS THAN 2.5 GPM AT 80 PSI SHOWER HEADS LAVATORY FAUCETS 1.5 GPM AT 60 PSI

CIRCL	CIRCULATION PUMP SCHEDULE						
MARK	MANUFACTURER	MODEL	G.P.M.	FT.HD.	H.P.	V./PH.	REMARKS
<u>CP-1</u>	BELL & GOSSETT	NBF-36	4	22	FRAC.	120V,1ø	3/4" FLANGE, ALL BRONZE 2—SPEED

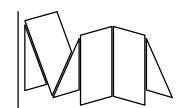
EXPAI	NSION TANK SCHE	DULE		
MARK	MANUFACTURER	MODEL	GALLON	REMARKS
<u>ET-1</u>	AMTROL	ST-8	3.2	THERMAL EXPANSION TANK, 9" DIA. x 15" HIGH

ELECTRIC WATER HEATER SCHEDULE

2.2 GPM AT 80 PSI

MARK	MODEL	TYPE	STOR.		ELE	CTRICAL		TEMP.	FINAL	RECOVERY	REMARKS
INITALIX	MODEL	TIFE	CAP.	KW	VOLTS	PHASE	HZ	RISE	TEMP.	G.P.H.	REMARKS
<u>WH-1</u>	AO SMITH PXNT-55	DOMESTIC HOT WATER	55 GAL	5.5	ı	_	60	100	120	30	_





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sma project no. 16-101

sma project name POWDERCAT

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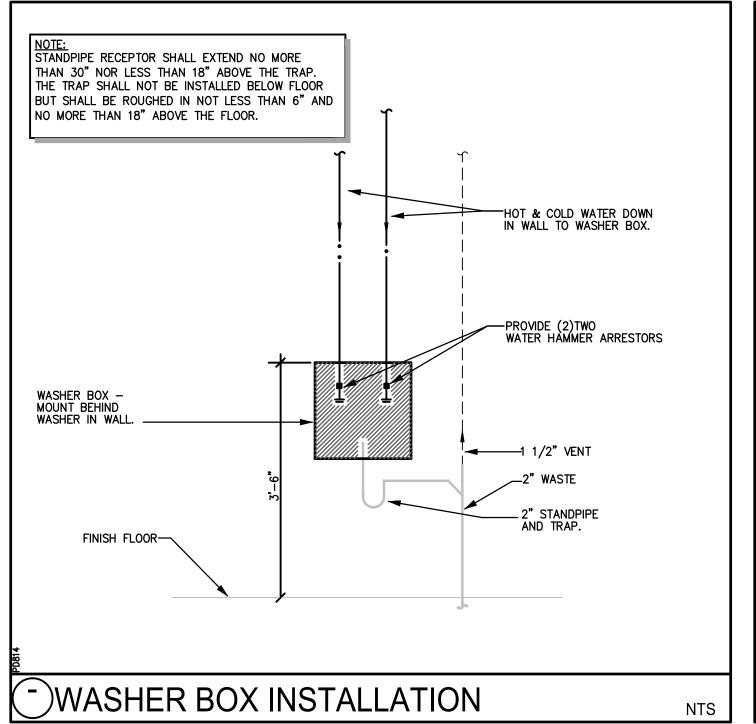


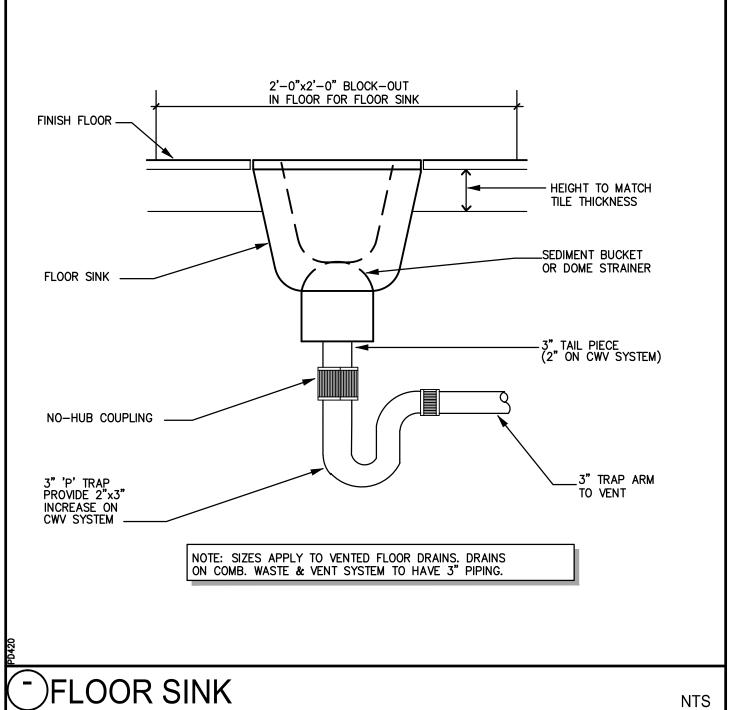
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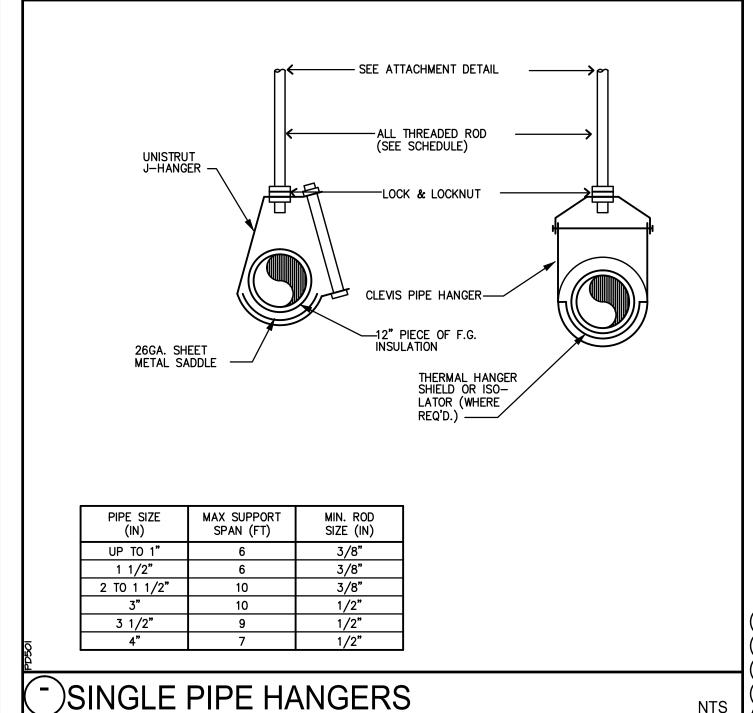
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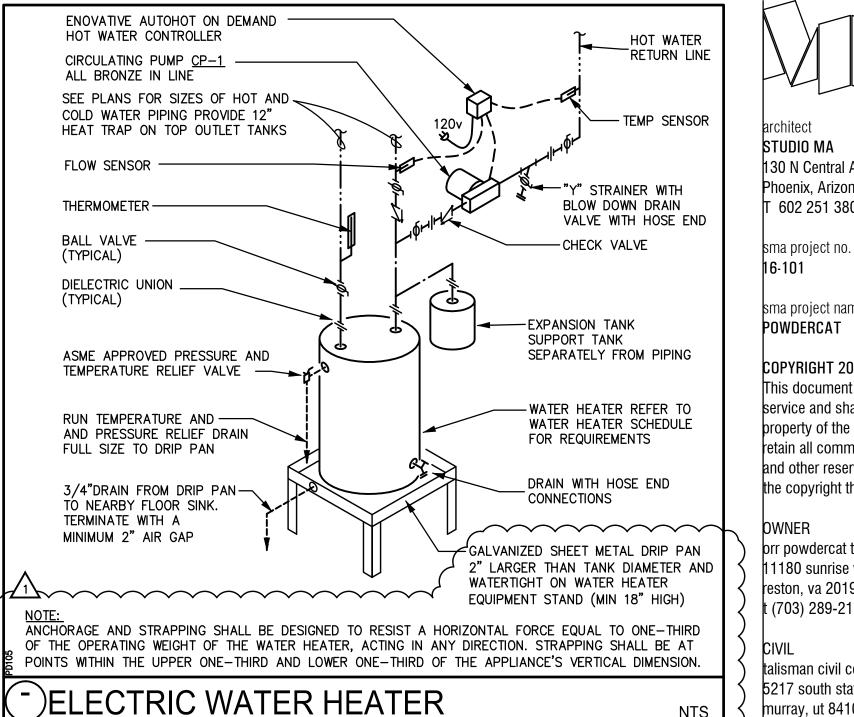
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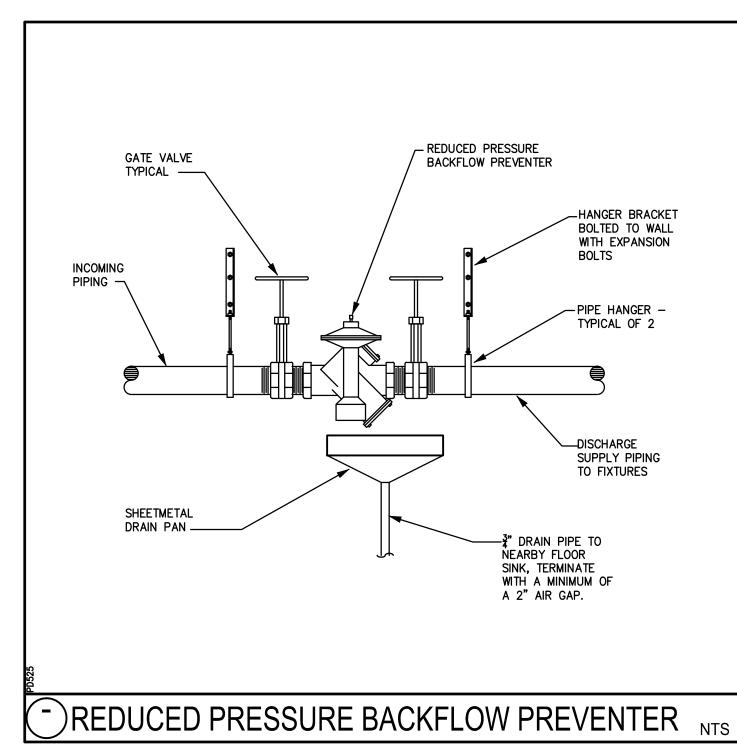
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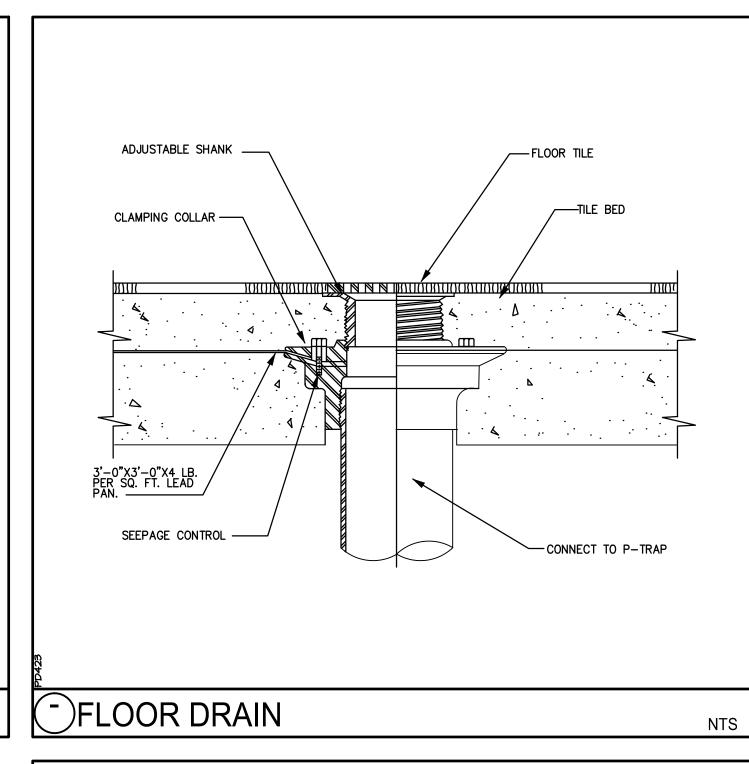


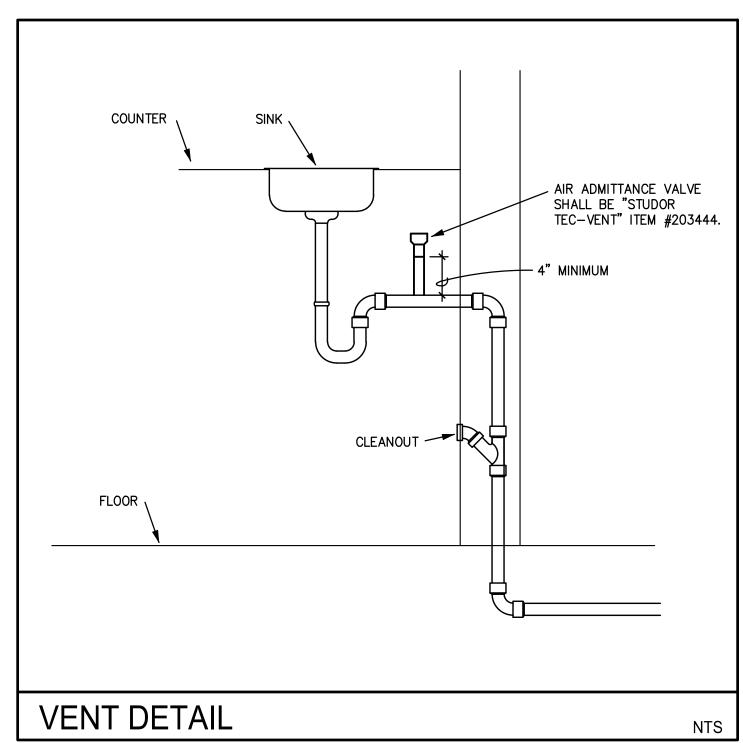


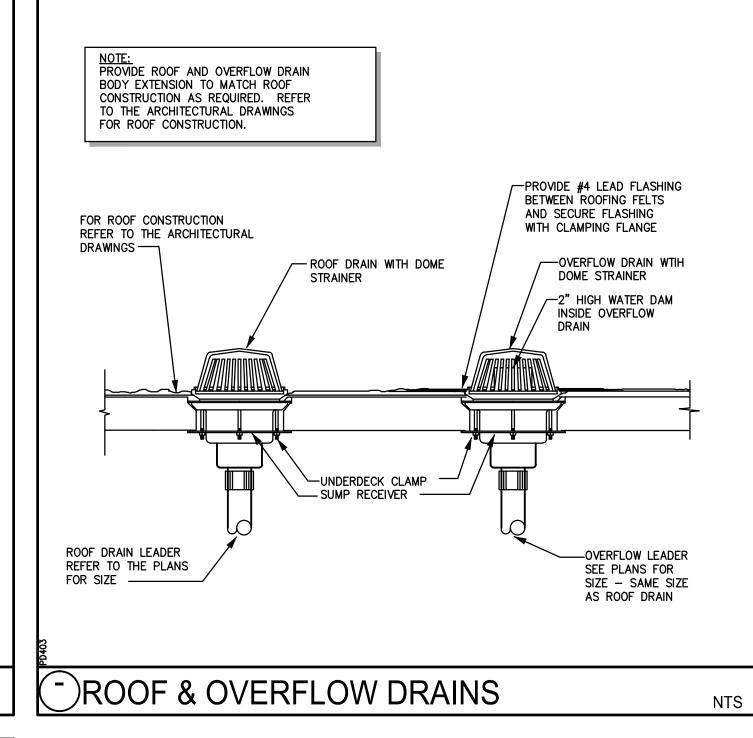


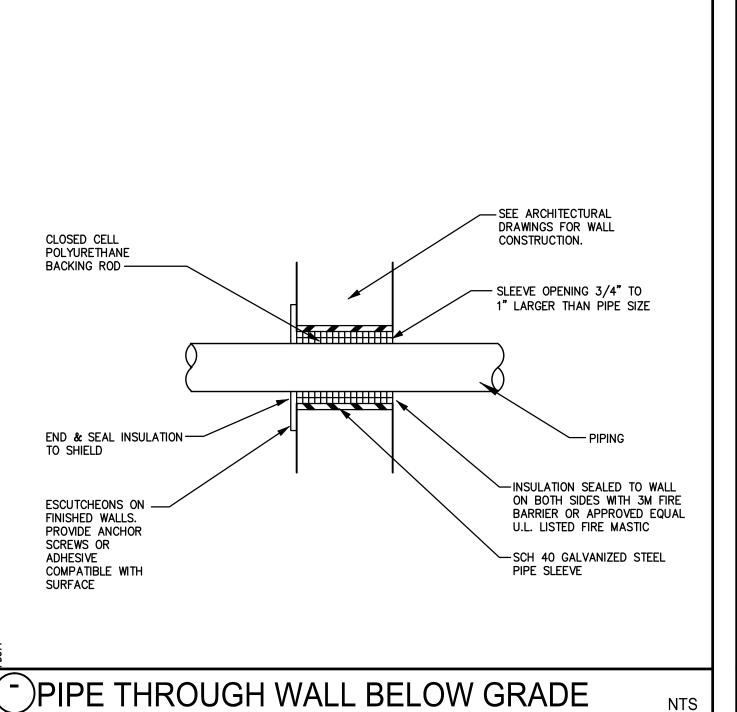


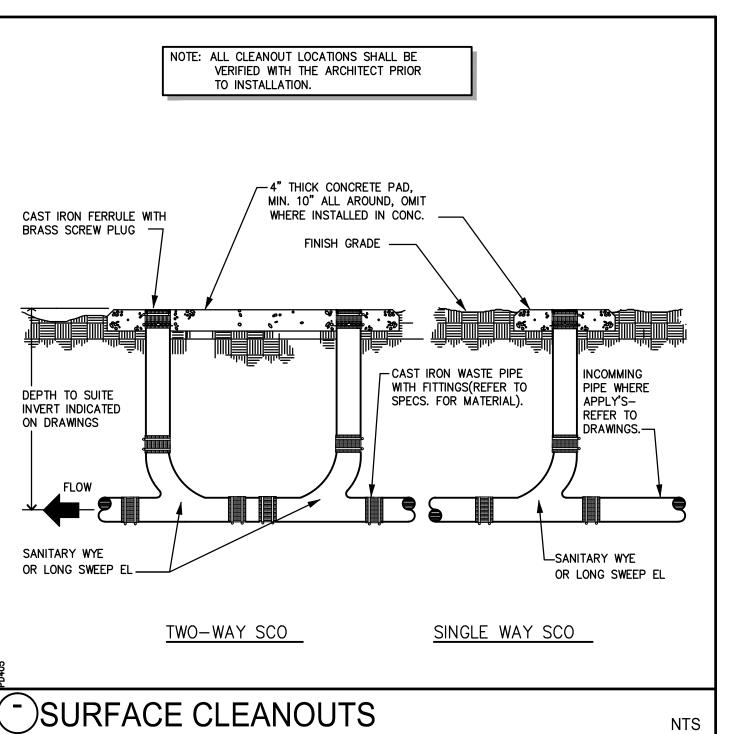


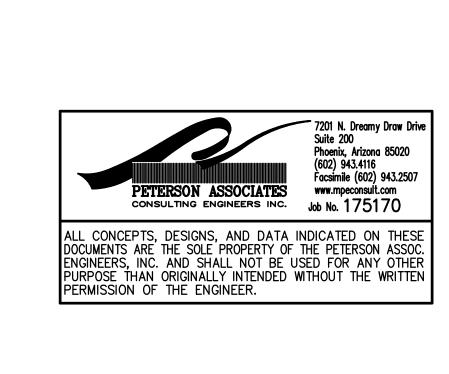














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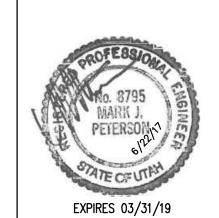
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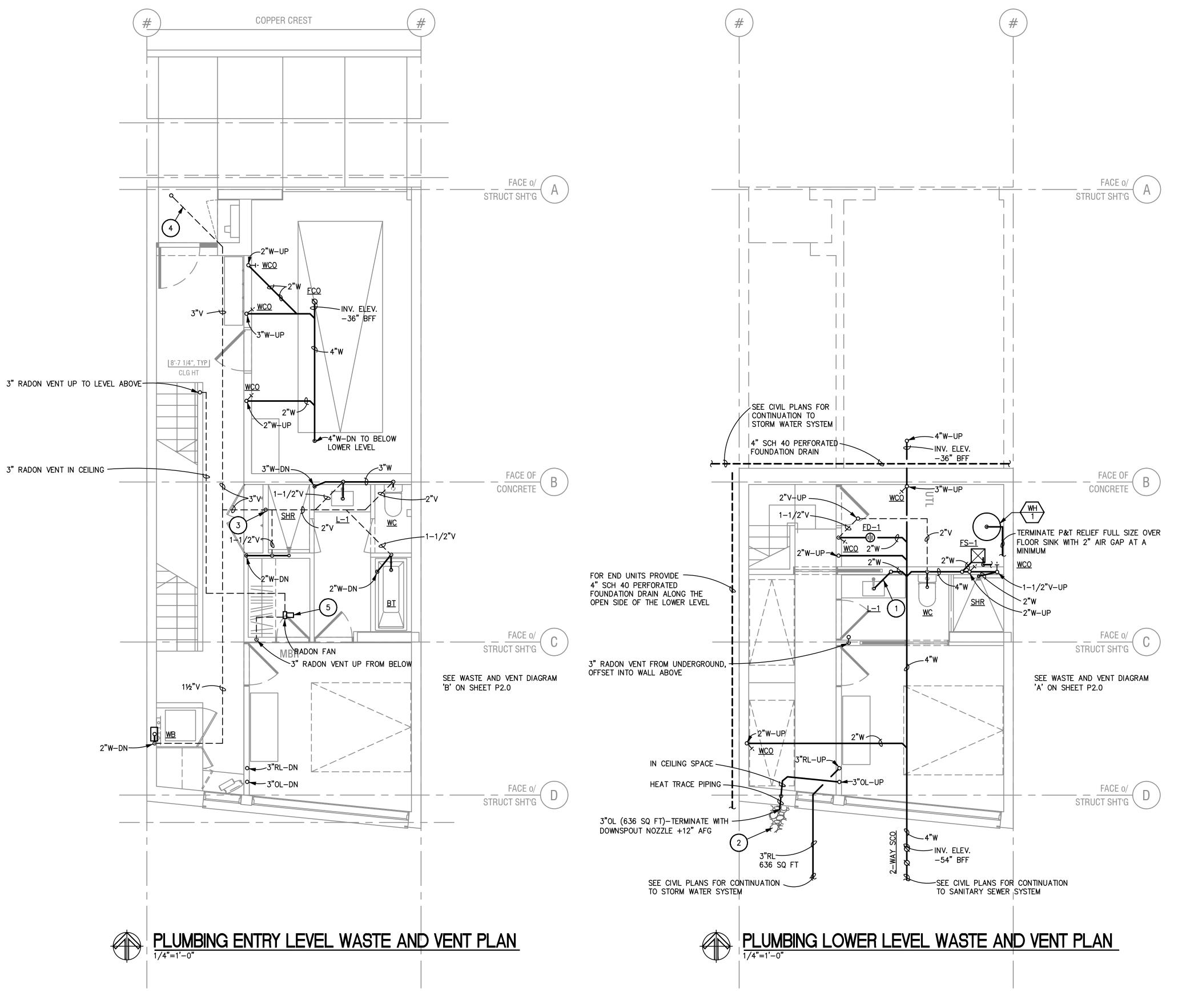
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NO SCALE

PERMIT SET phase / rev



LOWER LEVEL

ENTRY LEVEL



- 1. COORDINATE P-TRAP UNDER LAVATORY AND WASTE WITH VENT PIPE IN WALL WITH POCKET DOOR CONSTRUCTION.
- 2. PROVIDE 4"-6" SIZE RIPRAP, COLOR TO BE SELECTED BY ARCHITECT, UNDER DOWNSPOUT NOZZLE. EXTEND A MINIMUM OF 18" AWAY FROM BUILDING EDGE.
- 3. 2"V UP FROM FLOOR BELOW. CONNECT INTO 2"V ON THIS FLOOR IN CEILING AREA.
- 4. 3"V UP INTO STRUCTURE ABOVE, OFFSET INTO CORNER OF BUILDING.
- 5. PROVIDE CEILING ACCESS TO RADON FAN, COORDINATE WITH ALL OTHER TRADES. SEE MECHANICAL DRAWINGS FOR FAN AND TESTING REQUIREMENTS.

sma project no. 16-101

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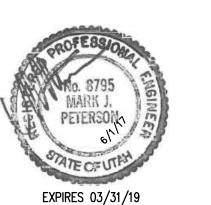
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P1.0
TYPICAL UNIT
ENTRY AND LOWER
LEVEL FLOOR PLANS

RMIT

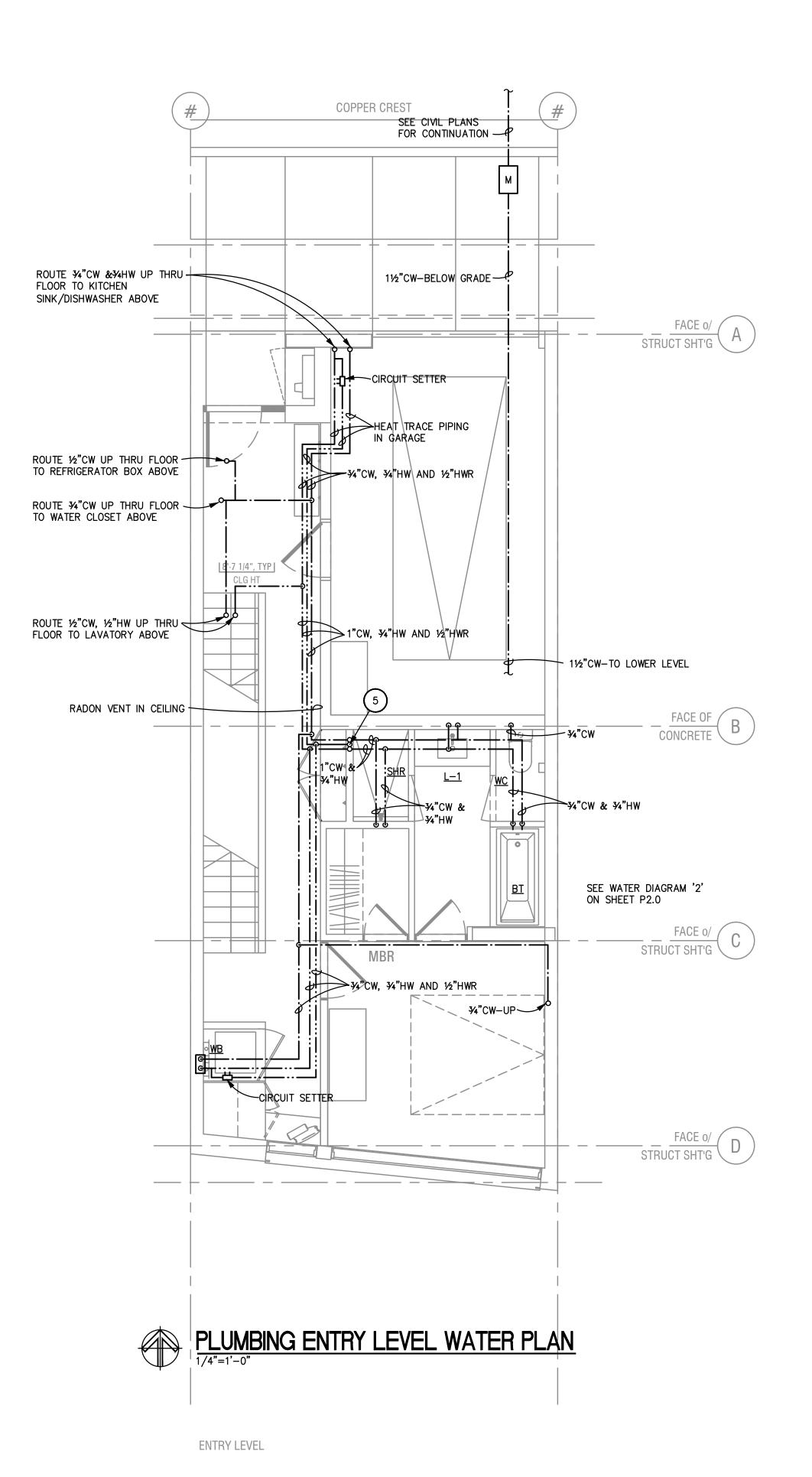
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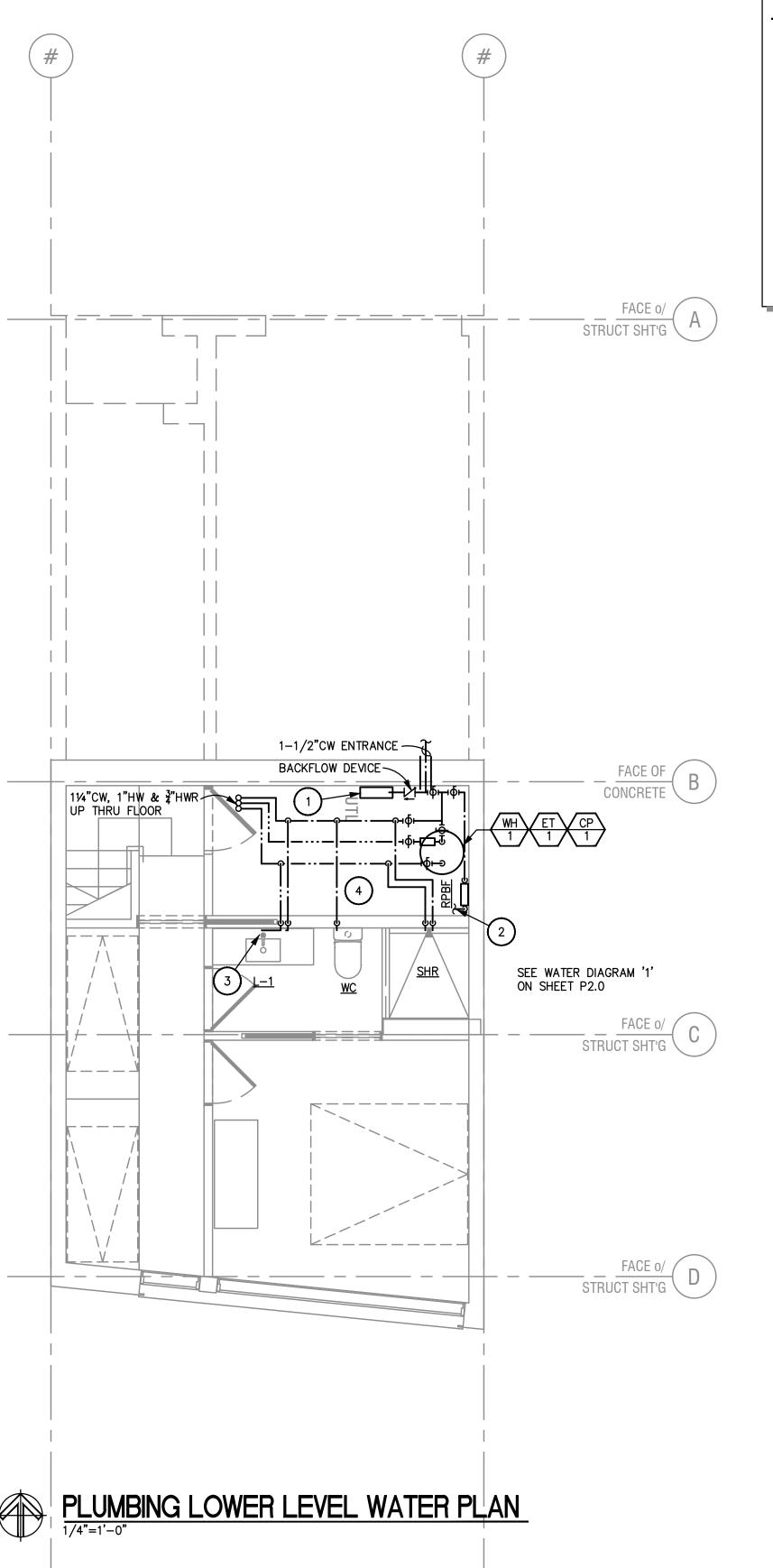
1/4" = 1'-0"

scale

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*** KEYED NOTES:**

- 1. RESIDENTIAL FIRE RISER MANIFOLD.
- 2. 1"WATER MAKE—UP TO UNDER FLOOR HEATING SYSTEMS. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
- 3. COORDINATE THE PLACEMENT OF THE ANGLE VALVES AND ROUTING OF SUPPLIES TO THE LAVATORY WITH THE POCKET DOOR CONSTRUCTION.
- 4. COORDINATE LOCATION OF PIPES AND ACCESSORIES WITH ALL OTHER TRADES IN THE UTILITY
- 5. 1-1/4"CW, 1"HW AND 3"HWR UP FROM LEVEL BELOW.



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BUILDING STRUCTURAL
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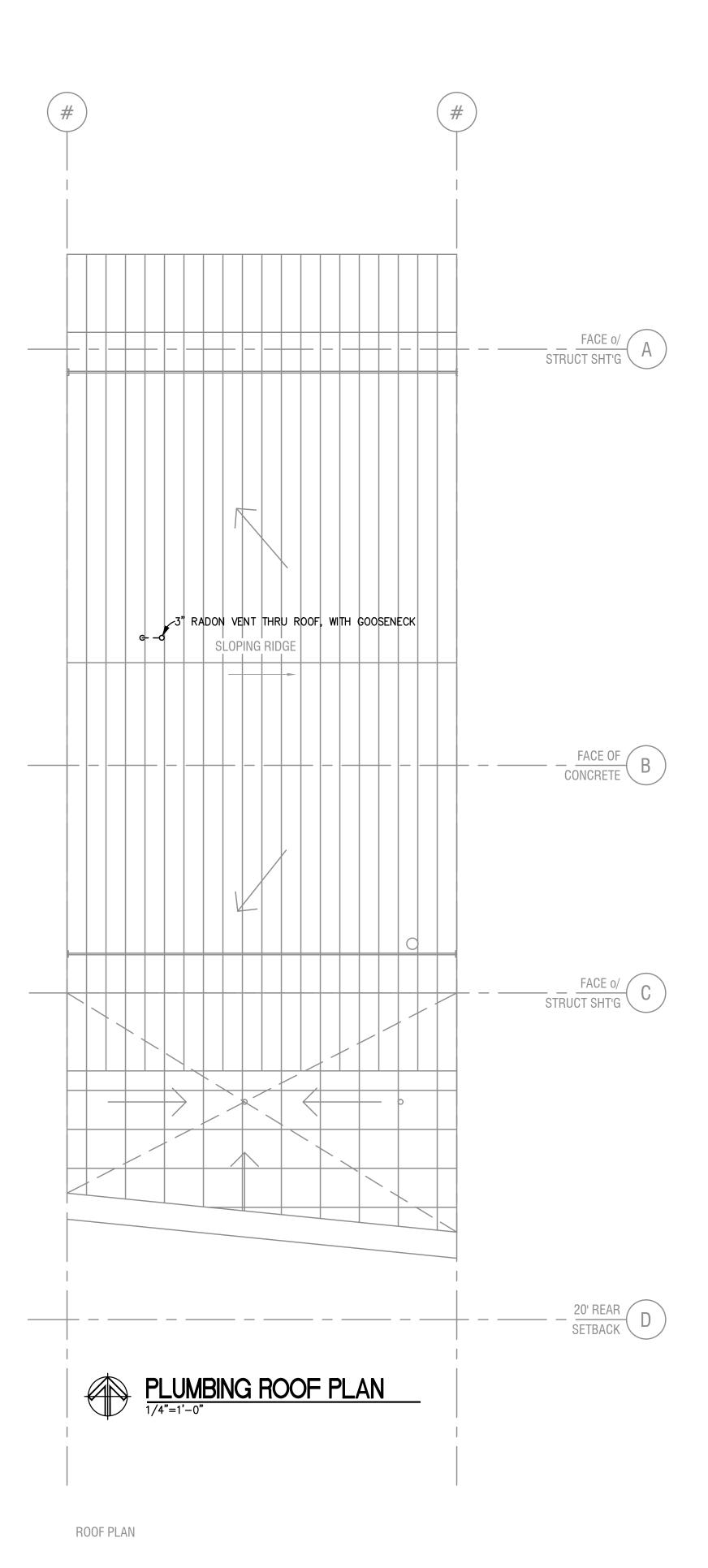
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P1.1
TYPICAL UNIT
ENTRY AND LOWER
LEVEL FLOOR PLANS

PERMIT phase / rev

1/4" = 1'-0"

scale



FACE 0/ A 3"V-UP —— FROM BELOW | 2"W-DN IN WALL BELOW 3"W-DN IN WALL BELOW - FACE OF B SEE WASTE AND VENT DIAGRAM 'B' ON SHEET P2.0 SEE WATER DIAGRAM '2' ON SHEET P2.0 - FACE o/ C SEE ARCHITECTURAL DRAWINGS FOR LOCATION HEAT TRACE PIPING 3"OL-DN PLUMBING UPPER LEVEL PLAN

1/4"=1'-0"

UPPER LEVEL

KEYED NOTES:

- 1. 4" VENT TERMINATION IN FACE OF BUILDING. COORDINATE LOCATION WITH ALL OTHER
- 2. ROUTE 3"CW AND 3"HW TO KITCHEN SINK FAUCET AND DISHWASHER.
- 3. ½"CW UP THRU FLOOR, CONNECT TO REFRIGERATOR VALVE BOX.
- 4. 3"CW UP THRU FLOOR, CONNECT TO WATER CLOSET.
- 5. $\frac{1}{2}$ CW AND $\frac{1}{2}$ HW UP THRU FLOOR, CONNECT TO LAVATORY FAUCET.

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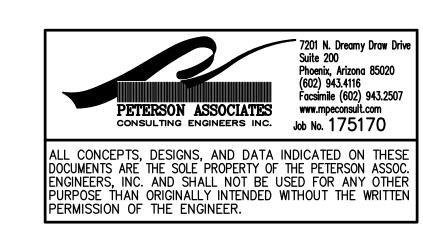


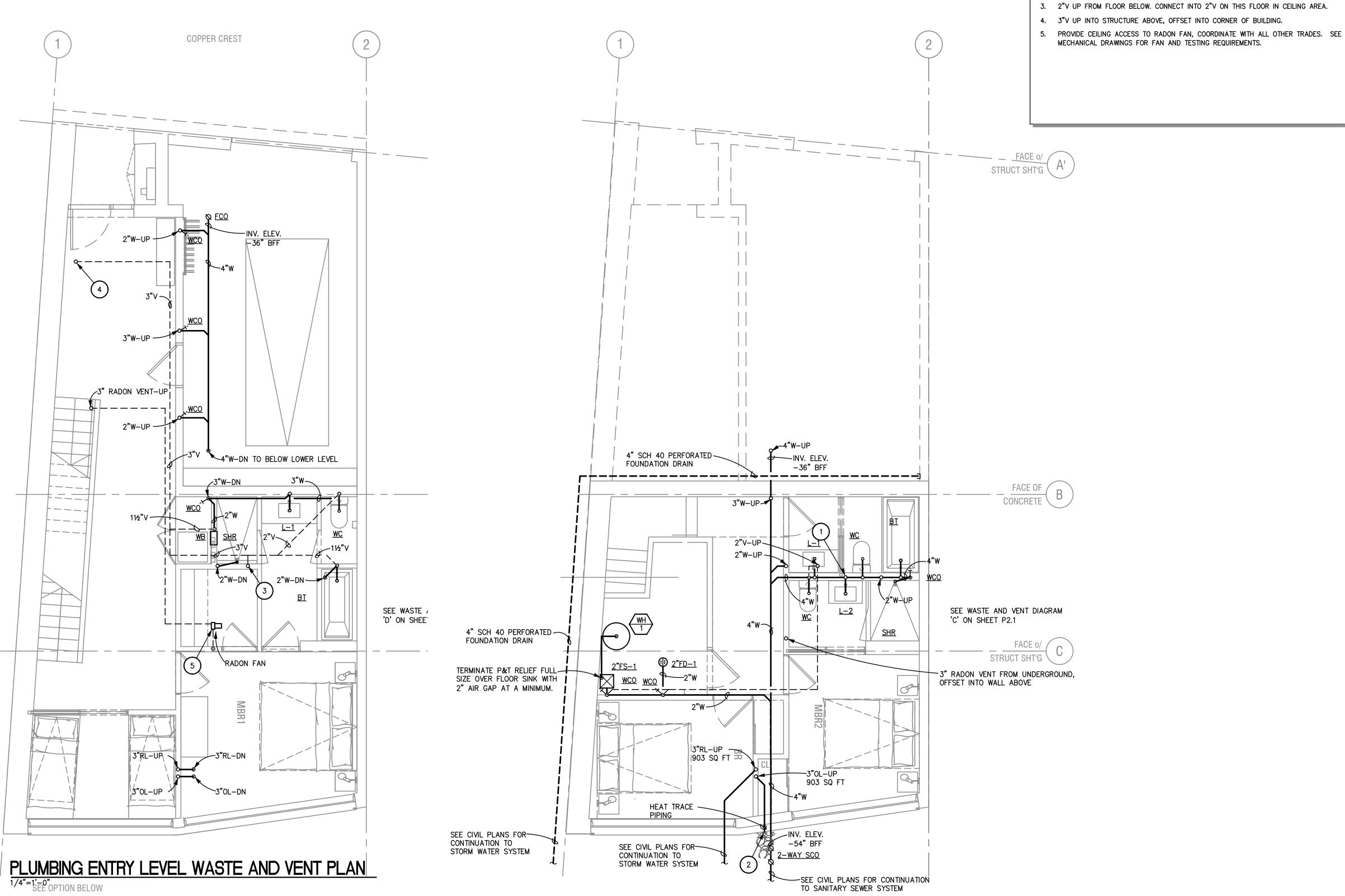


TYPICAL UNIT UPPER LEVEL AND **ROOF PLAN**

scale

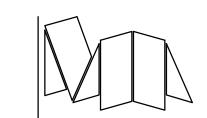
phase / rev **2017.06.01** date











DOOR CONSTRUCTION.

1. COORDINATE P-TRAP UNDER LAVATORY AND WASTE WITH VENT PIPE IN WALL WITH POCKET

2. PROVIDE 4"-6" SIZE RIPRAP, COLOR TO BE SELECTED BY ARCHITECT, UNDER DOWNSPOUT

NOZZLE. EXTEND A MINIMUM OF 18" AWAY FROM BUILDING EDGE.

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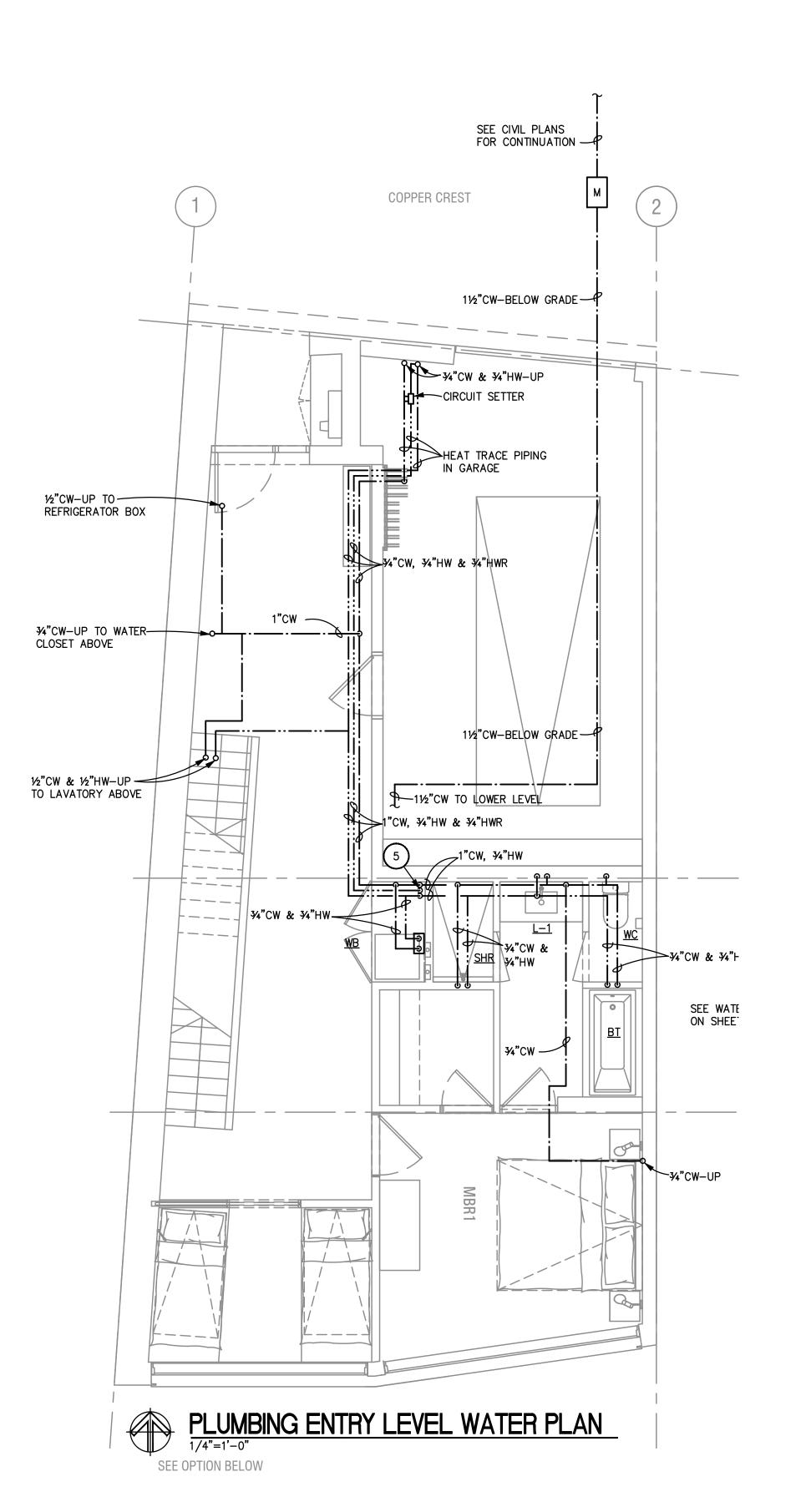
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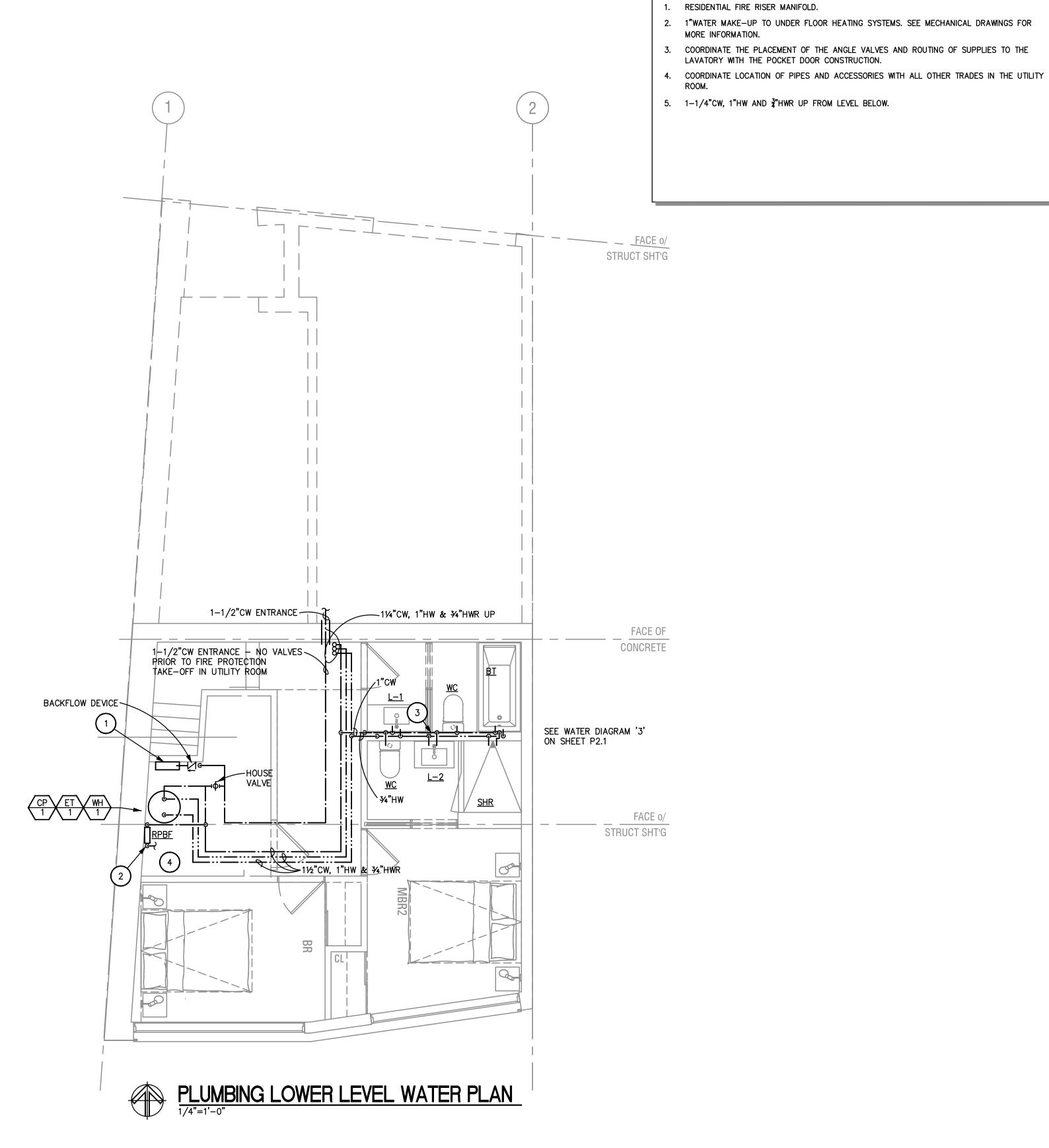
LOT 124 ENTRY AND LOWER LEVEL FLOOR

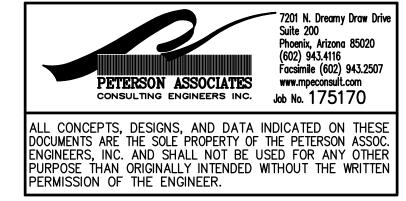
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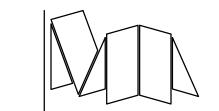
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1/4" = 1'-0"









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sma project name **POWDERCAT**

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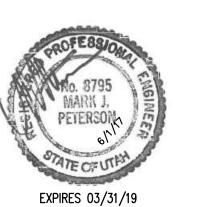
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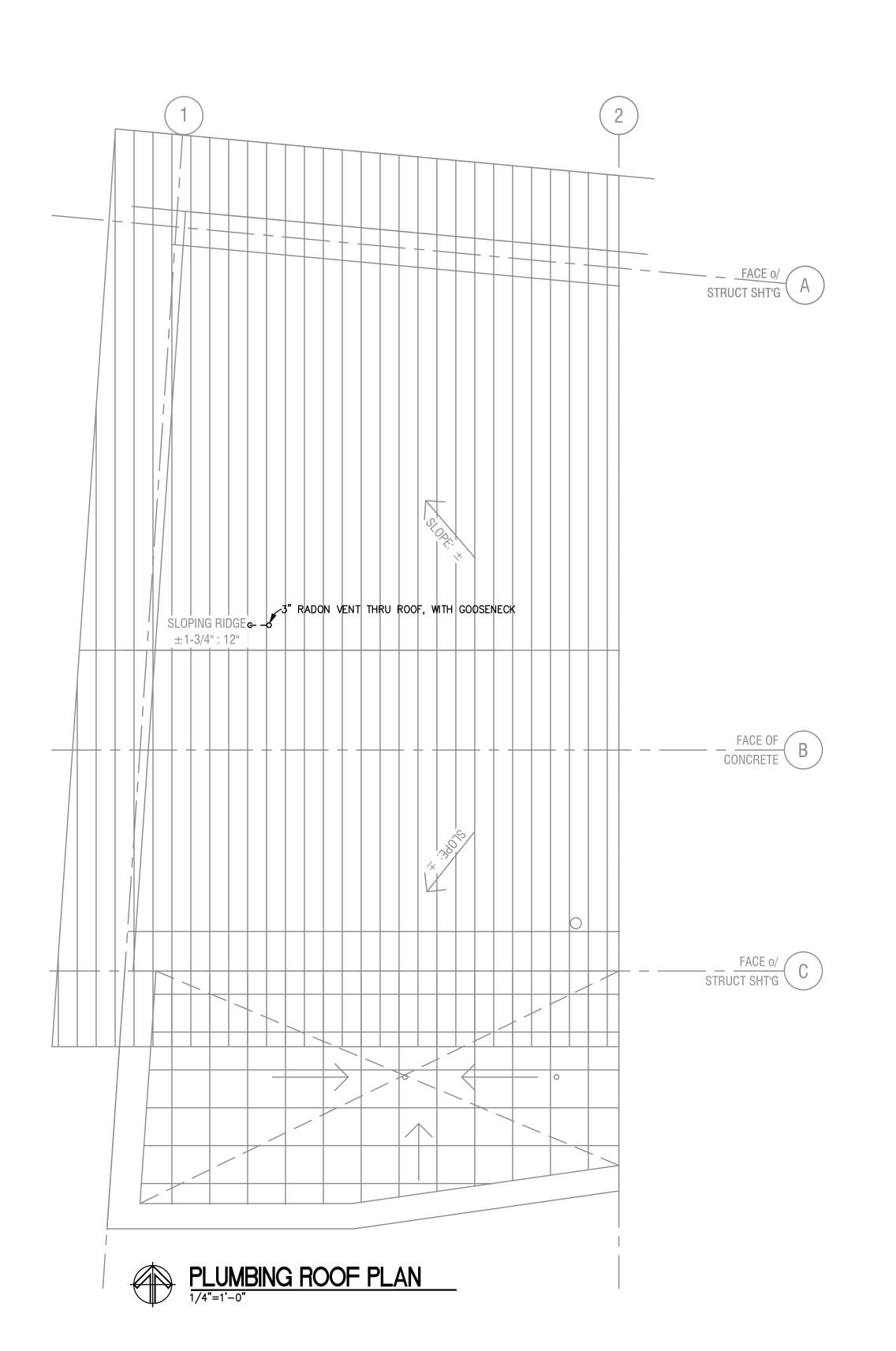


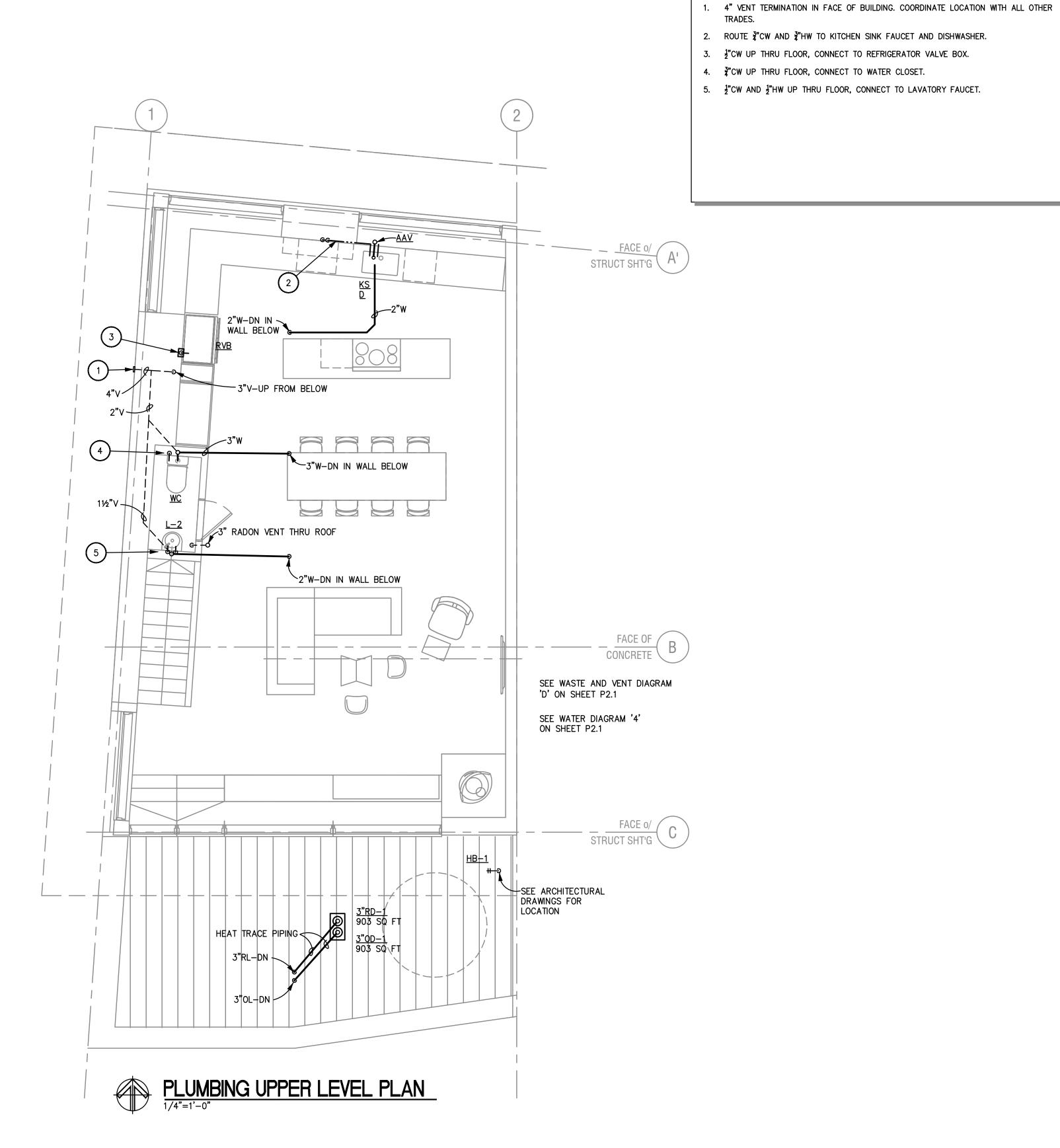
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LOT 124 ENTRY AND LOWER LEVEL FLOOR

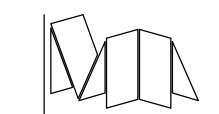
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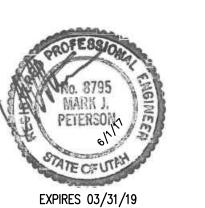
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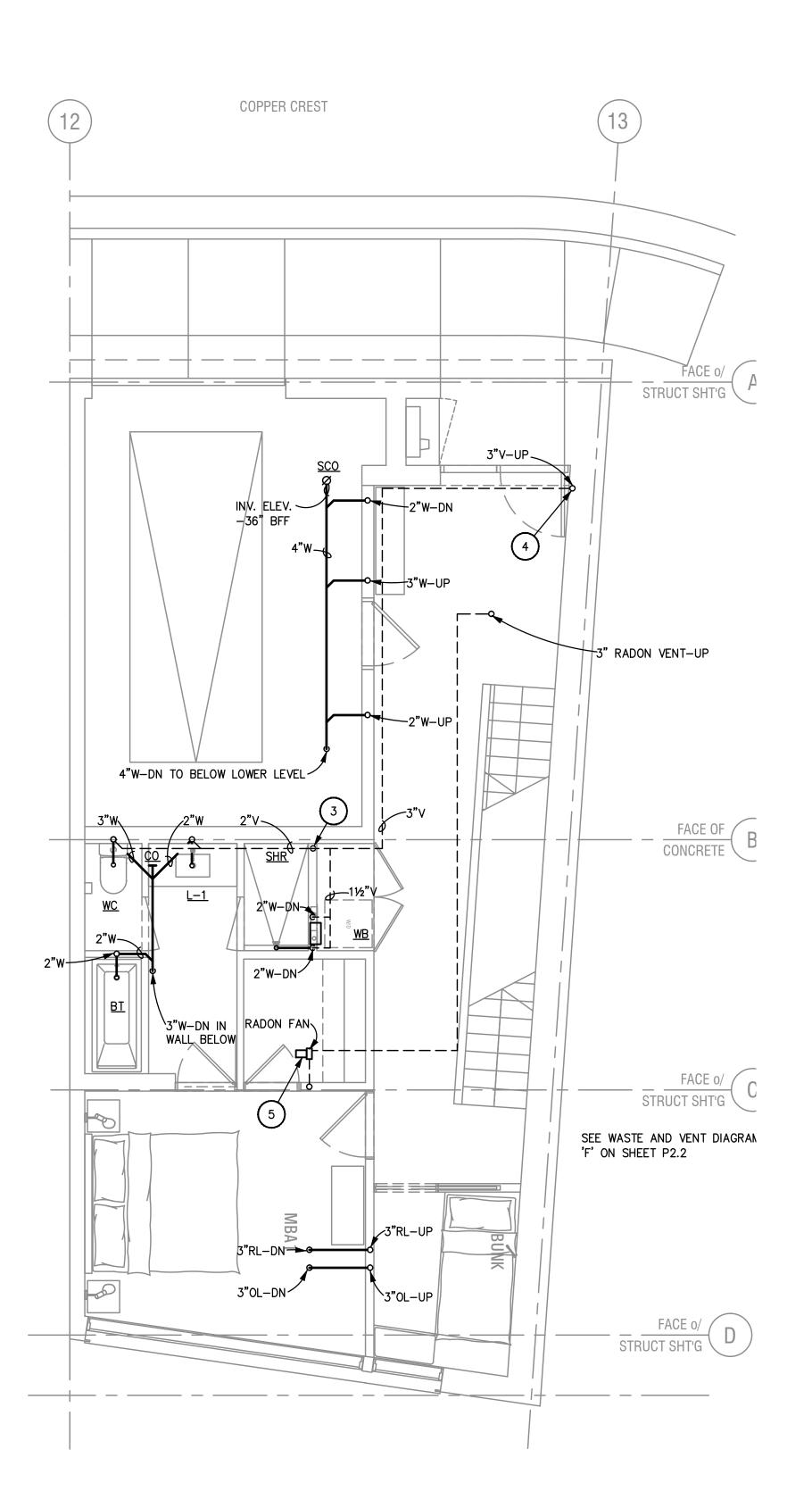


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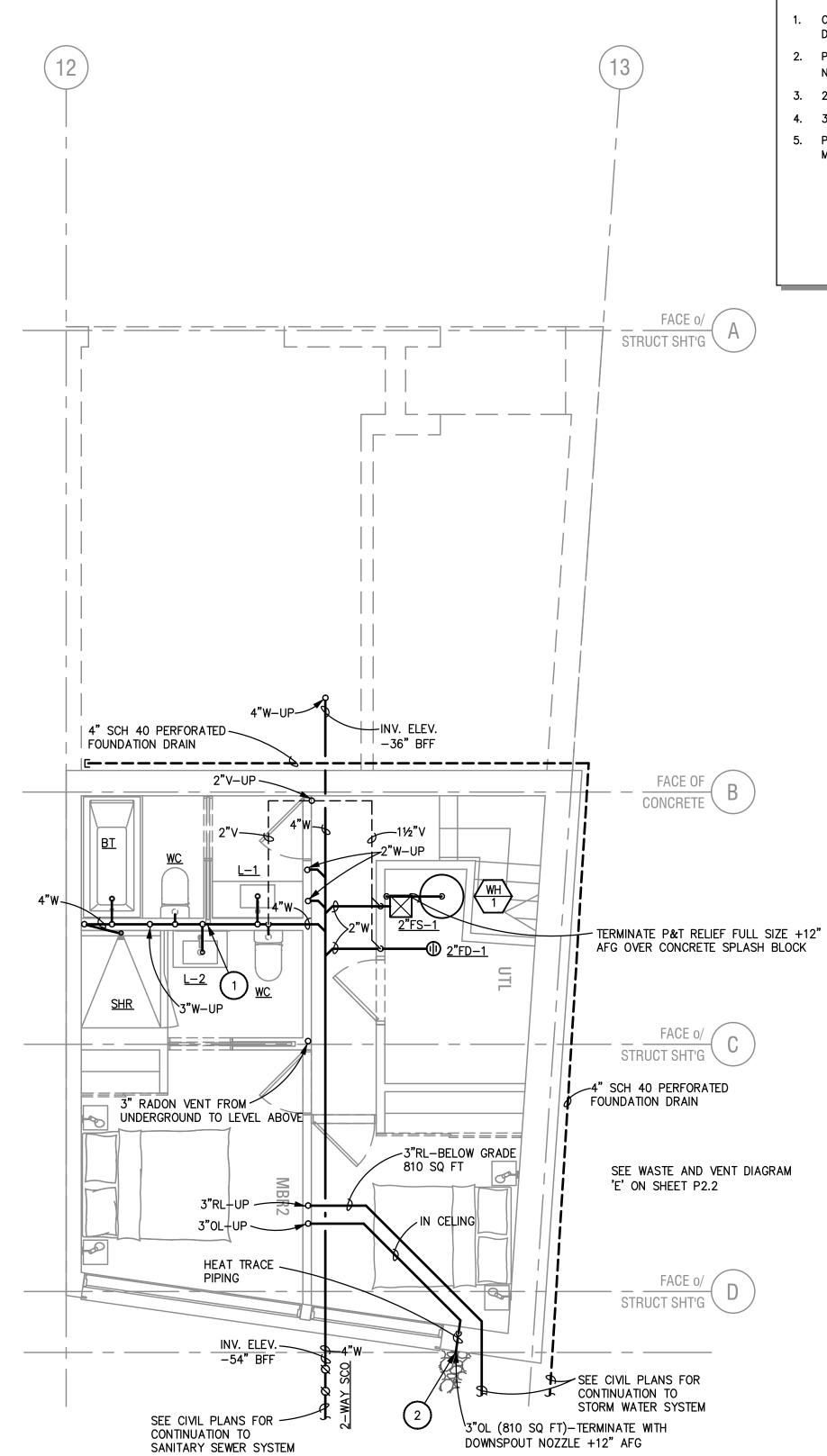
LOT 124 UPPER LEVEL AND ROOF

scale

phase / rev **2017.06.01** date







PLUMBING LOWER LEVEL WASTE AND VENT PLAN



- 1. COORDINATE P-TRAP UNDER LAVATORY AND WASTE WITH VENT PIPE IN WALL WITH POCKET DOOR CONSTRUCTION.
- 2. PROVIDE 4"-6" SIZE RIPRAP, COLOR TO BE SELECTED BY ARCHITECT, UNDER DOWNSPOUT NOZZLE. EXTEND A MINIMUM OF 18" AWAY FROM BUILDING EDGE.
- 3. 2"V UP FROM FLOOR BELOW. CONNECT INTO 2"V ON THIS FLOOR IN CEILING AREA.
- 4. 3"V UP INTO STRUCTURE ABOVE, OFFSET INTO CORNER OF BUILDING.
- 5. PROVIDE CEILING ACCESS TO RADON FAN, COORDINATE WITH ALL OTHER TRADES. SEE MECHANICAL DRAWINGS FOR FAN AND TESTING REQUIREMENTS.

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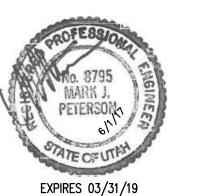
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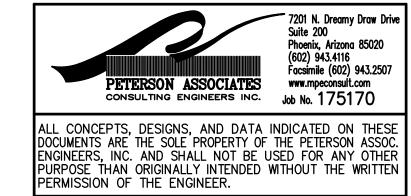


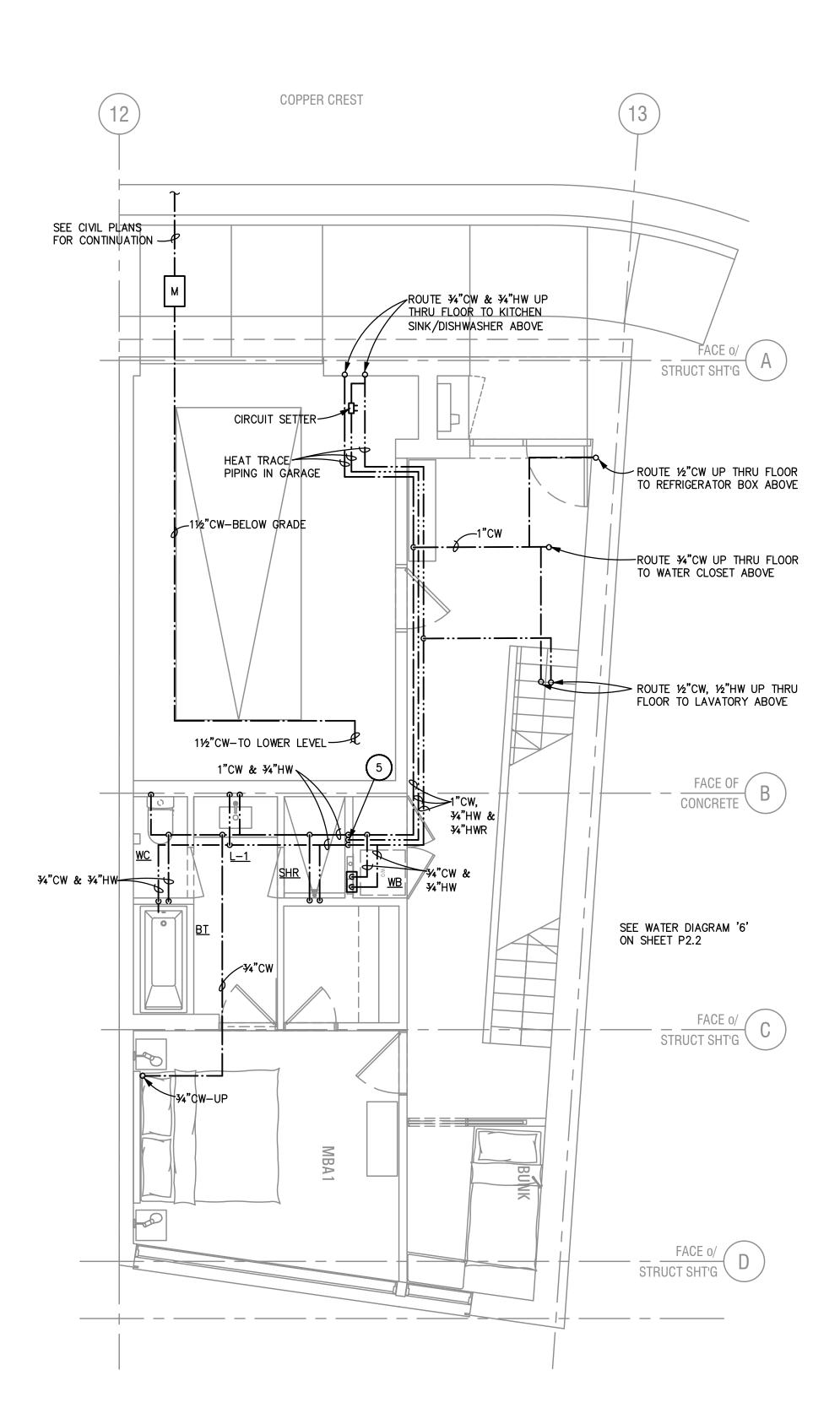


LOT 133 ENTRY AND LOWER LEVEL FLOOR

1/4" = 1'-0" scale

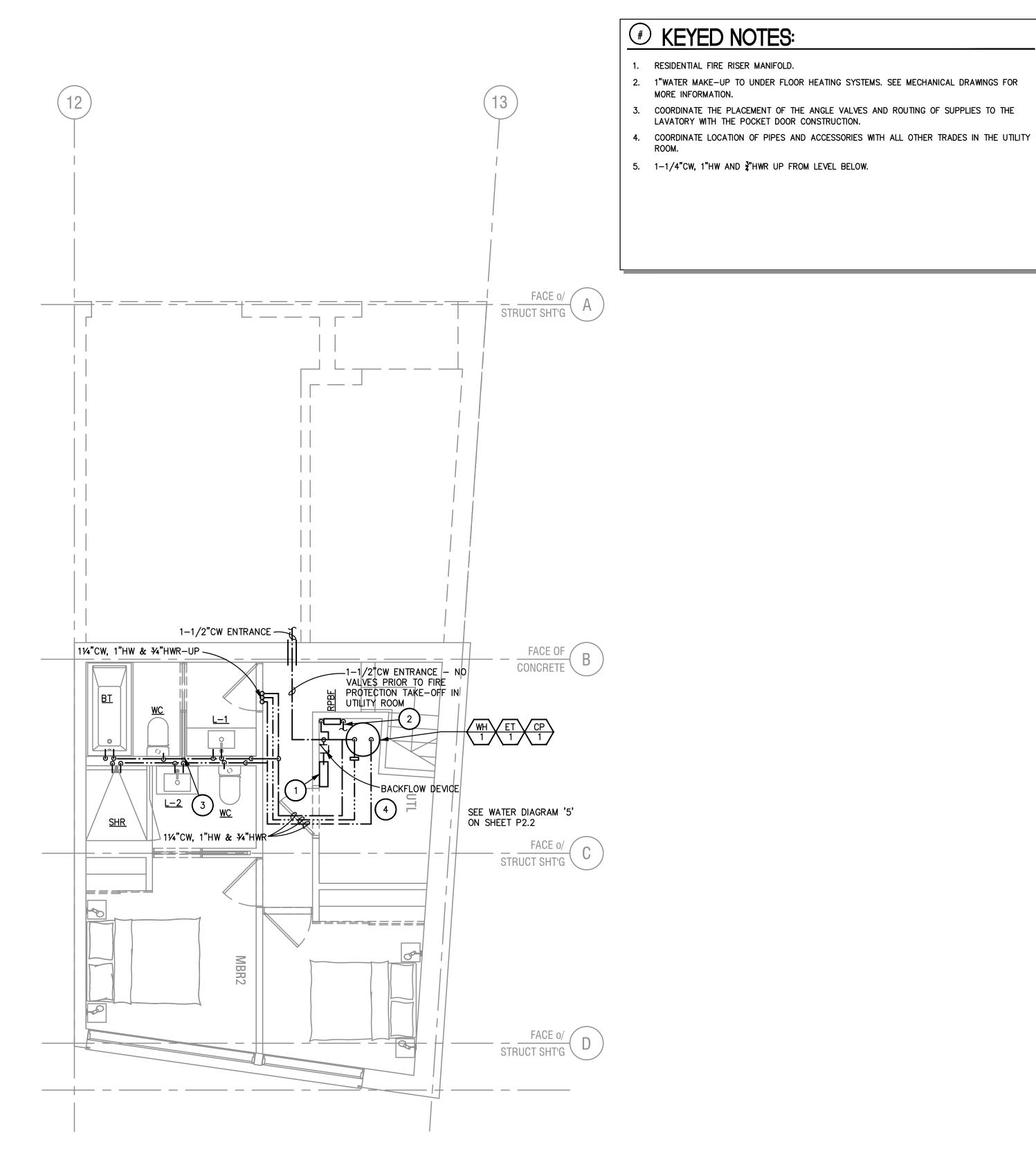
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PLUMBING ENTRY LEVEL WATER PLAN

1/4"=1'-0"



MORE INFORMATION.

LAVATORY WITH THE POCKET DOOR CONSTRUCTION.

PLUMBING LOWER LEVEL WATER PLAN

1/4"=1'-0"



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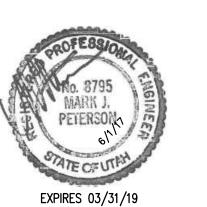
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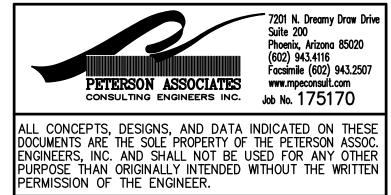


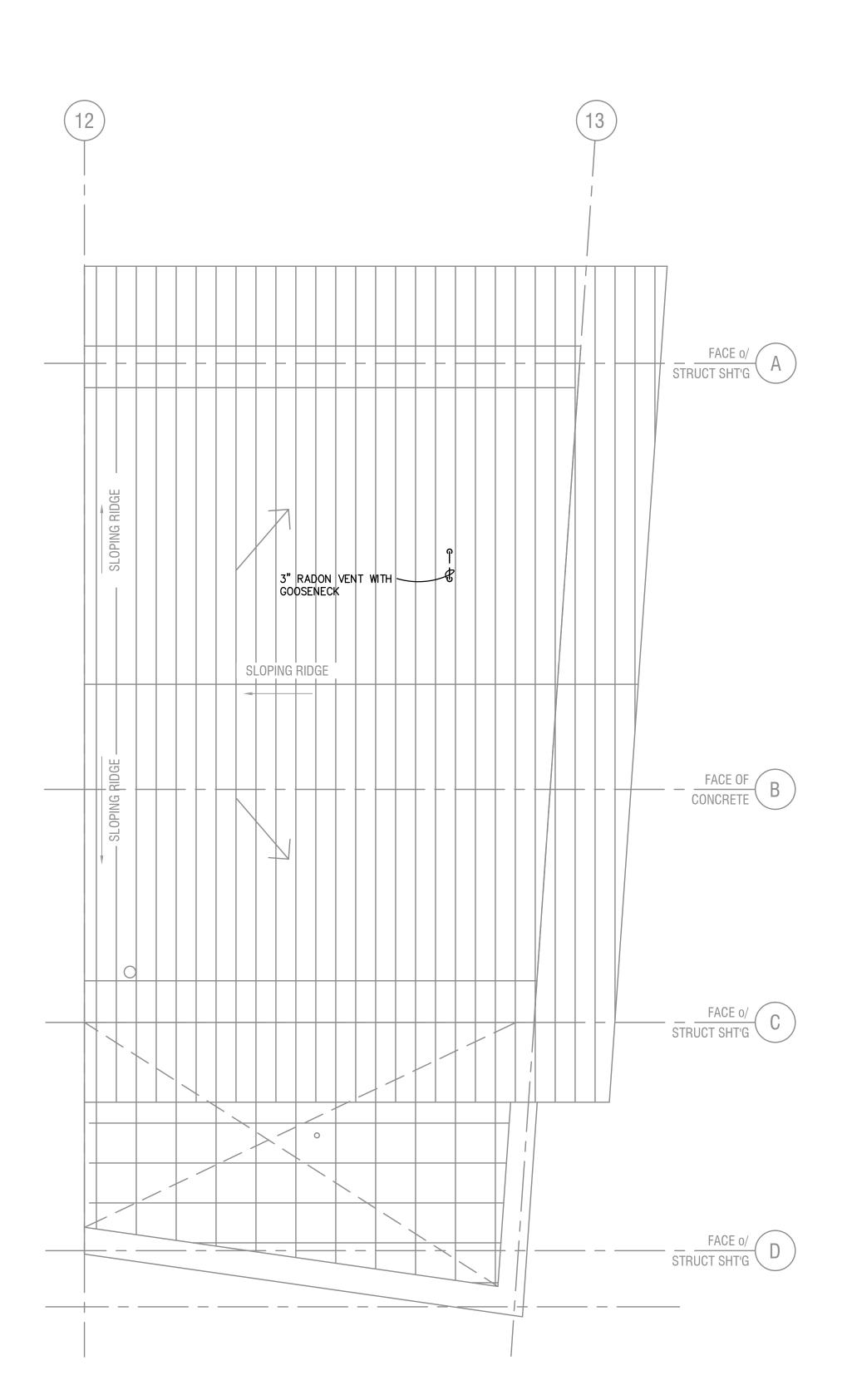


LOT 133 ENTRY AND LOWER LEVEL FLOOR

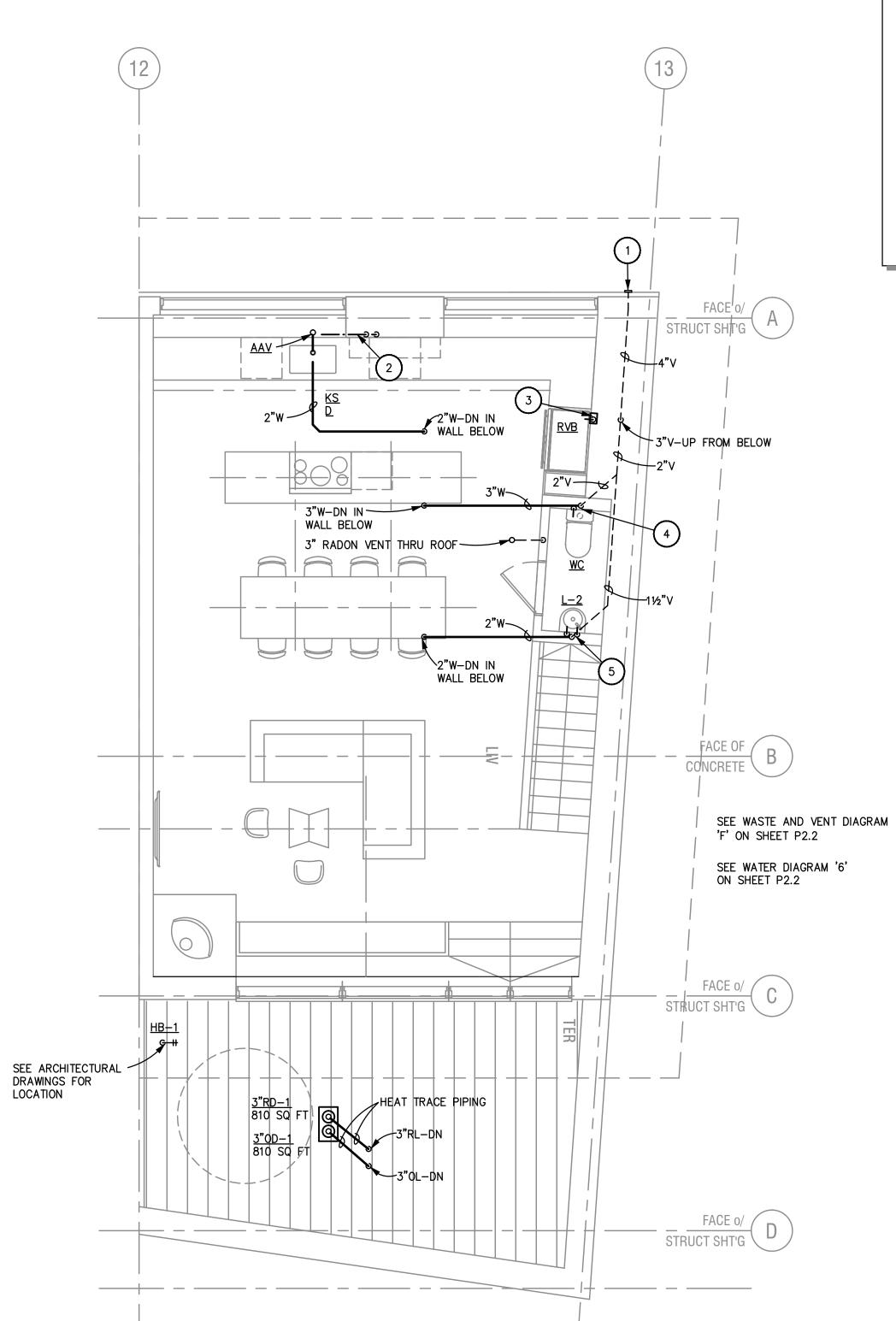
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PLUMBING UPPER LEVEL PLAN

1/4"=1'-0"



- 1. 4" VENT TERMINATION IN FACE OF BUILDING. COORDINATE LOCATION WITH ALL OTHER
- 2. ROUTE ¾"CW AND ¾"HW TO KITCHEN SINK FAUCET AND DISHWASHER.
- 3. ½"CW UP THRU FLOOR, CONNECT TO REFRIGERATOR VALVE BOX.
- 4. 3"CW UP THRU FLOOR, CONNECT TO WATER CLOSET.
- 5. $\frac{1}{2}$ CW AND $\frac{1}{2}$ HW UP THRU FLOOR, CONNECT TO LAVATORY FAUCET.

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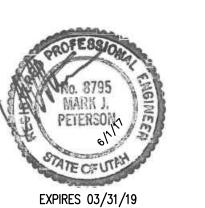
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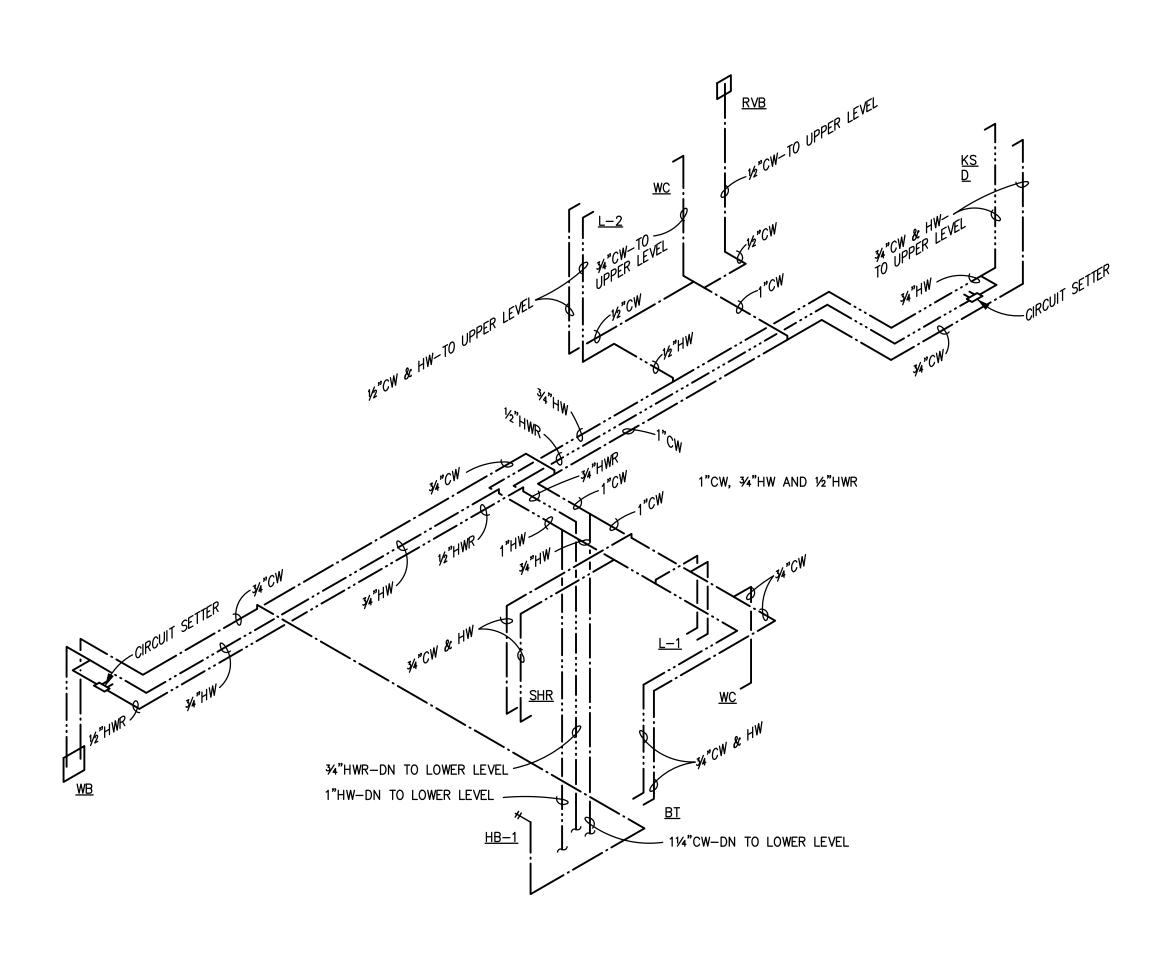


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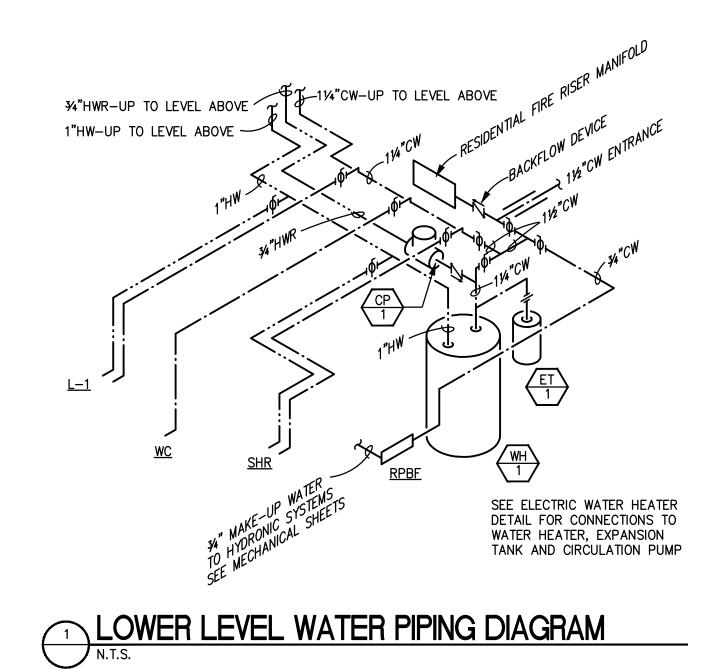
LOT 133 UPPER LEVEL AND ROOF

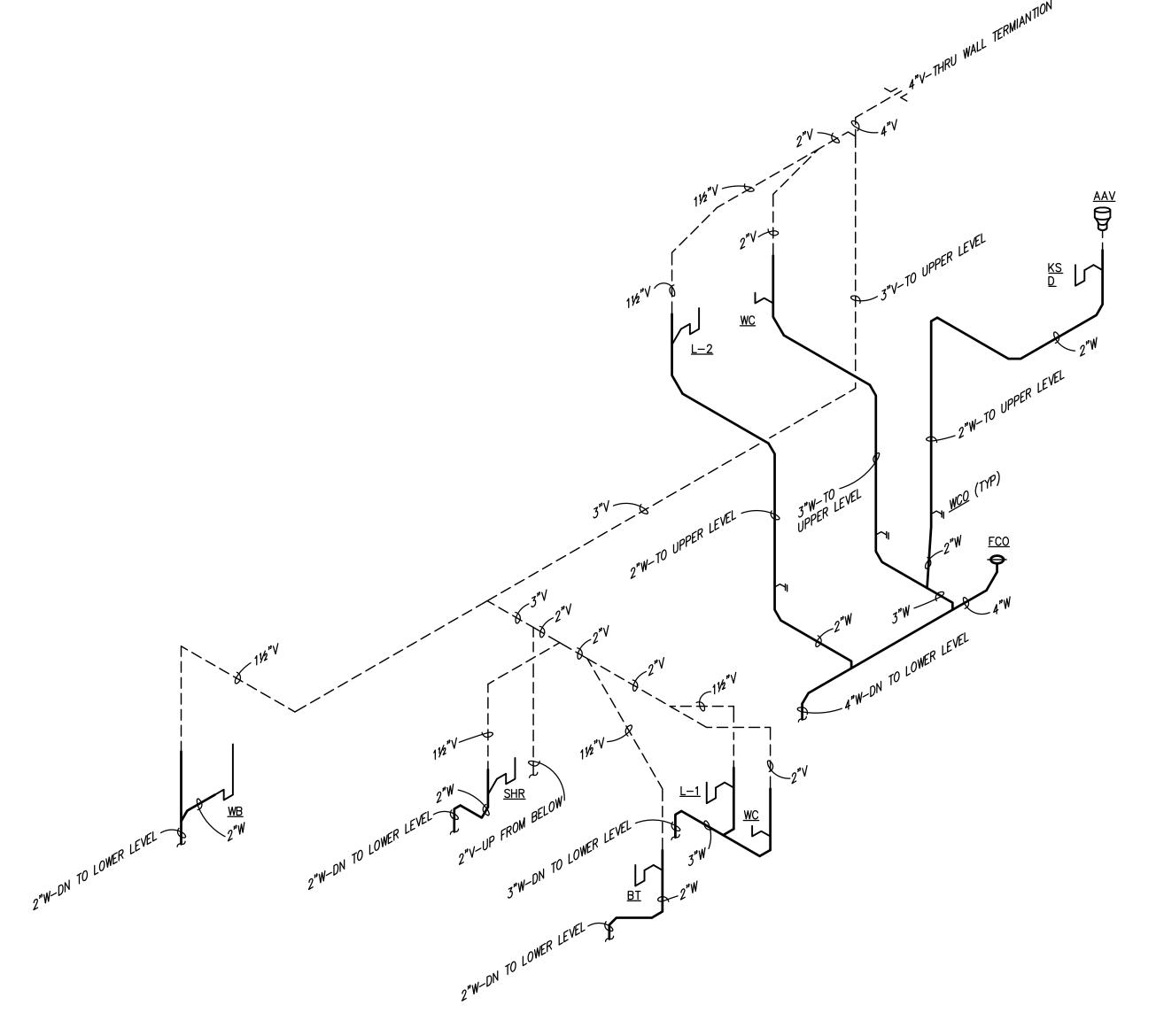
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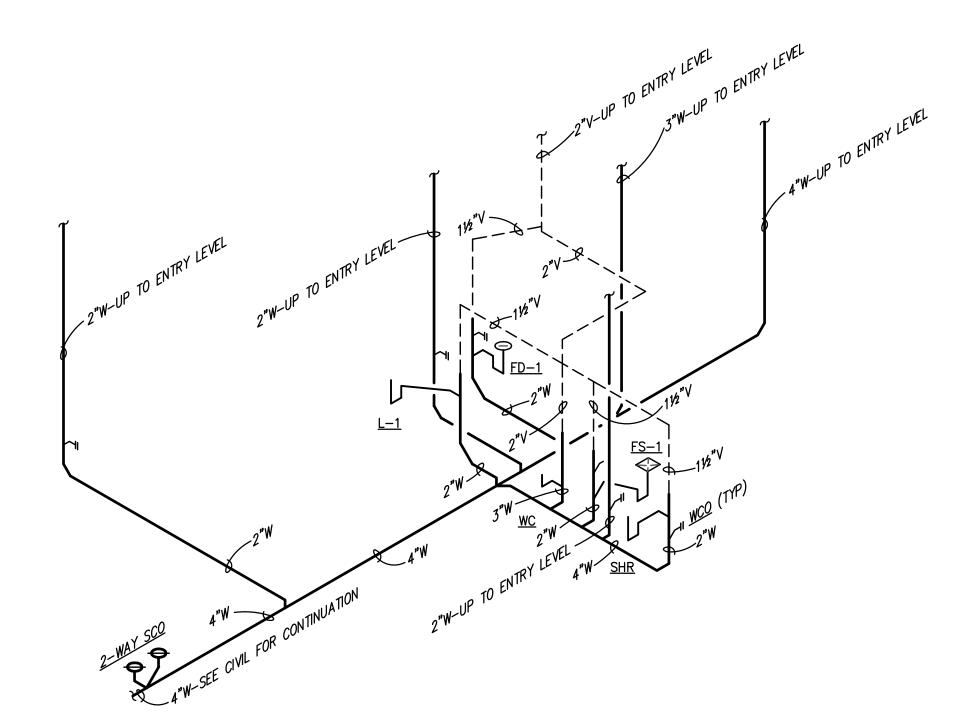


ENTRY AND UPPER LEVEL WATER PIPING DIAGRAM N.T.S.

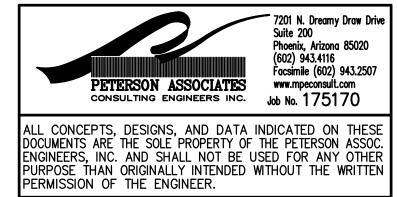




B ENTRY AND UPPER LEVEL WASTE AND VENT DIAGRAM N.T.S.



LOWER LEVEL WASTE AND VENT DIAGRAM
N.T.S.



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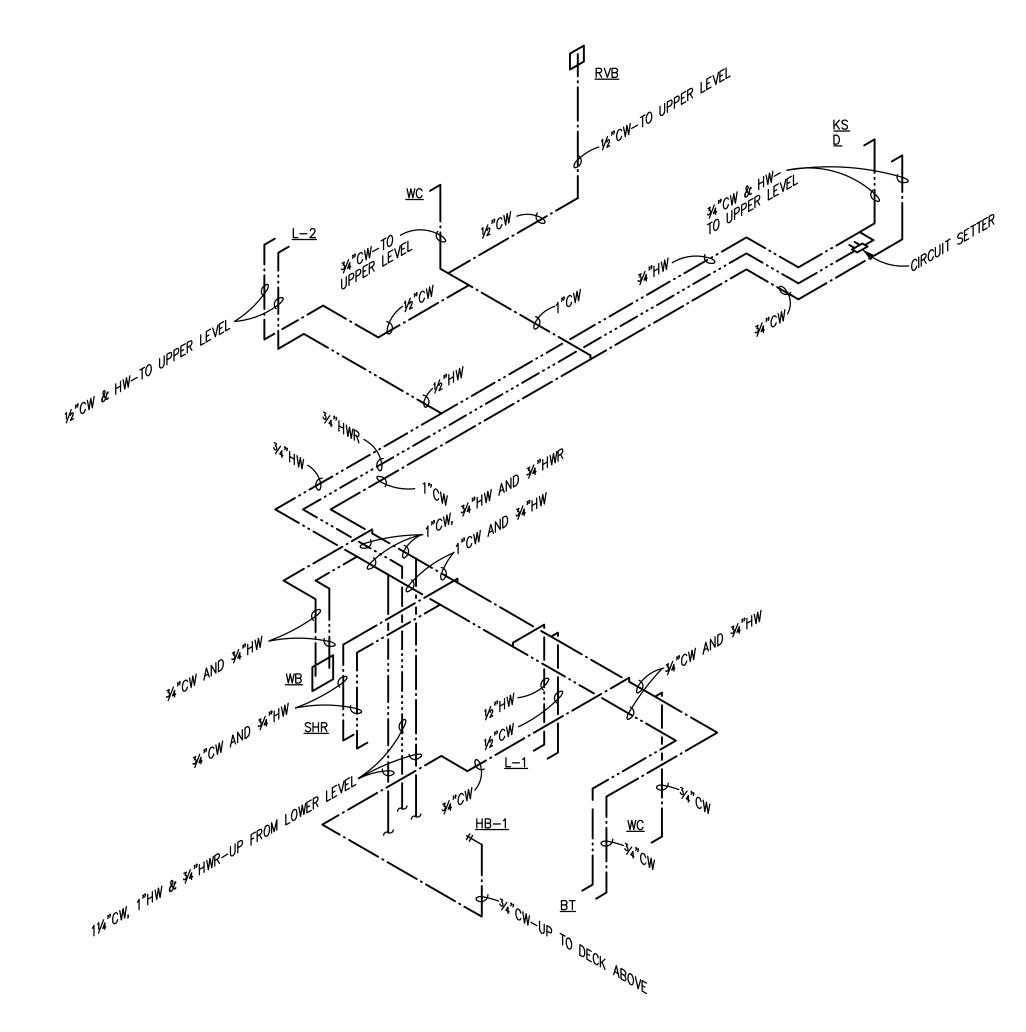
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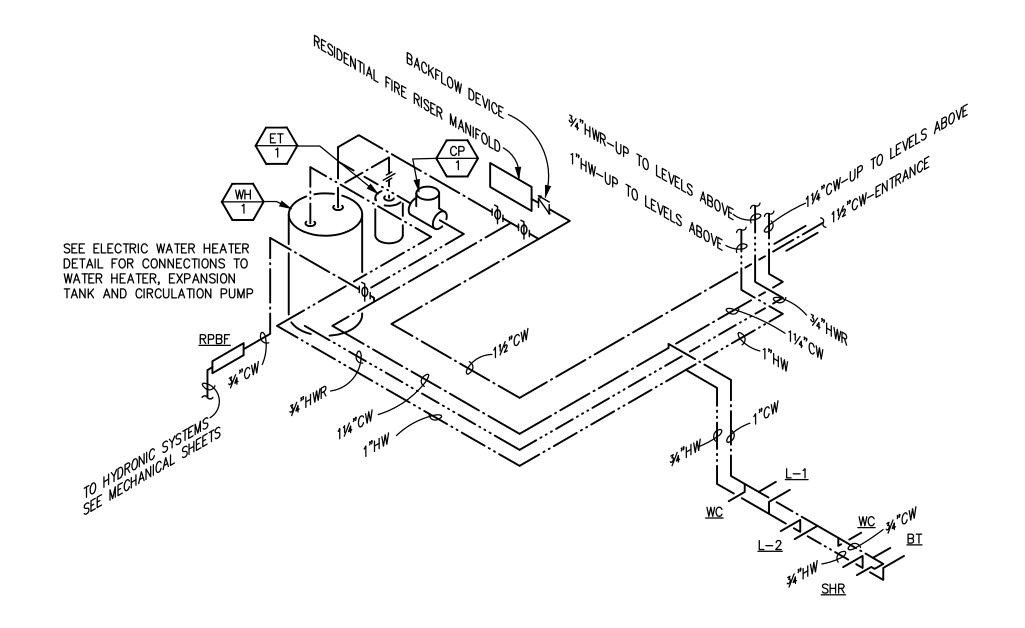
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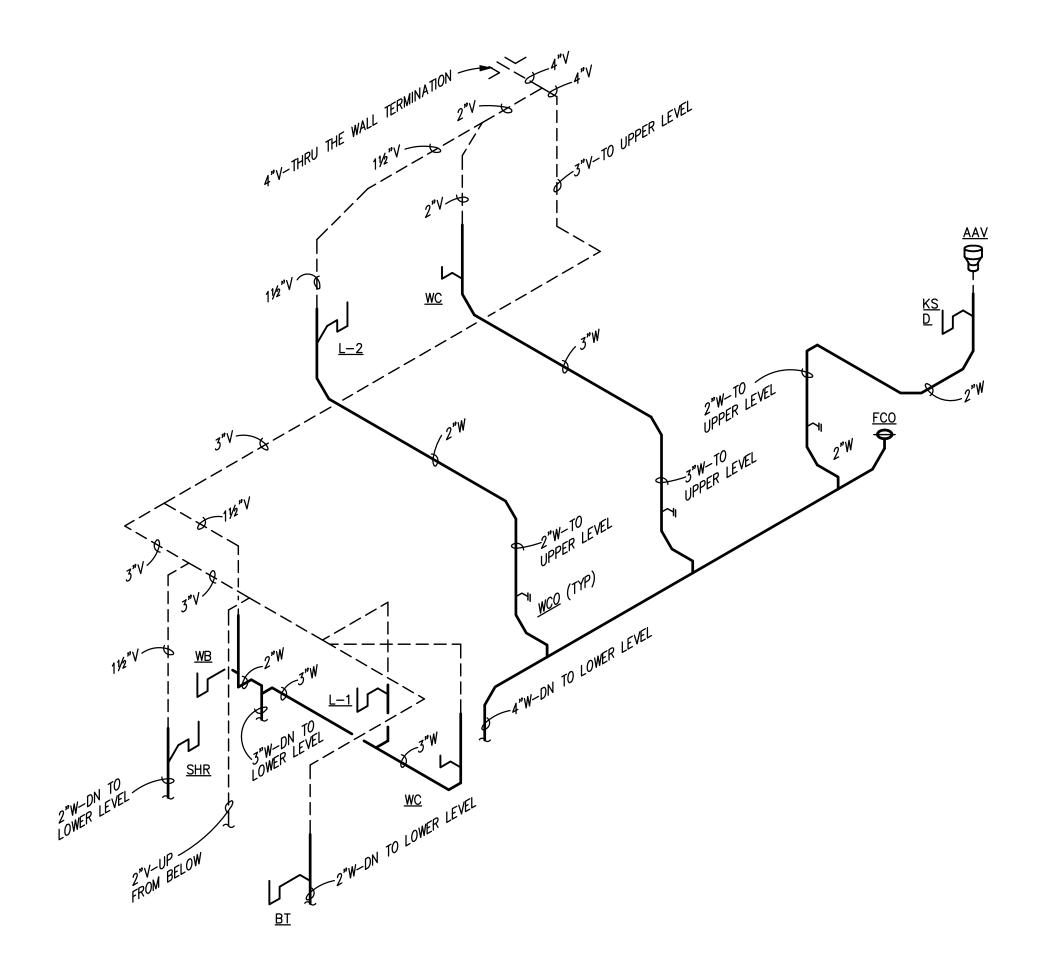
P2.0
TYPICAL UNIT
PLUMBING
DIAGRAMS



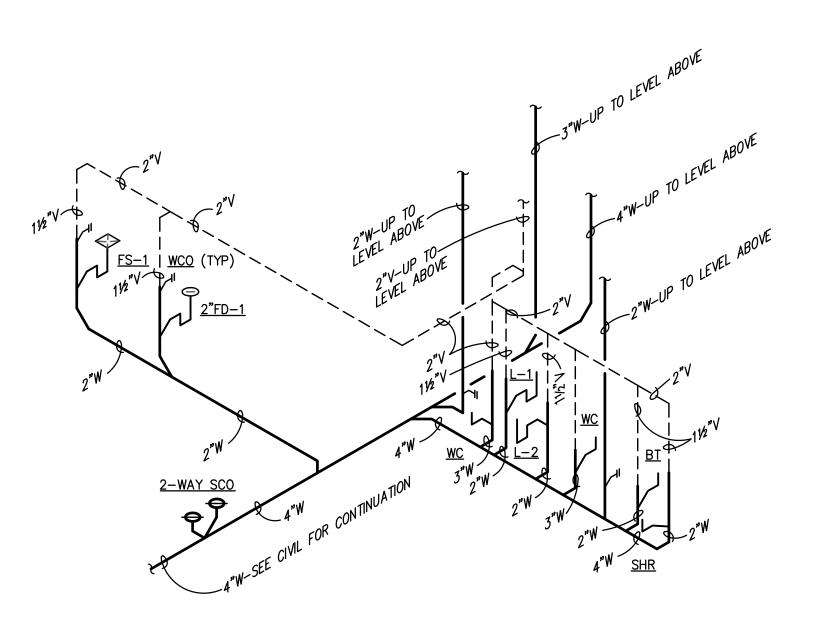
ENTRY AND UPPER LEVEL WATER PIPING DIAGRAM N.T.S.



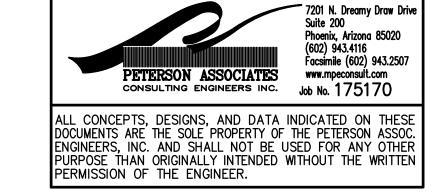
3 LOWER LEVEL WATER PIPING DIAGRAM
N.T.S.

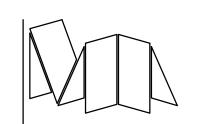


ENTRY AND UPPER LEVEL WASTE AND VENT DIAGRAM N.T.S.



C LOWER LEVEL WASTE AND VENT DIAGRAM
N.T.S.





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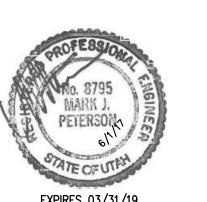
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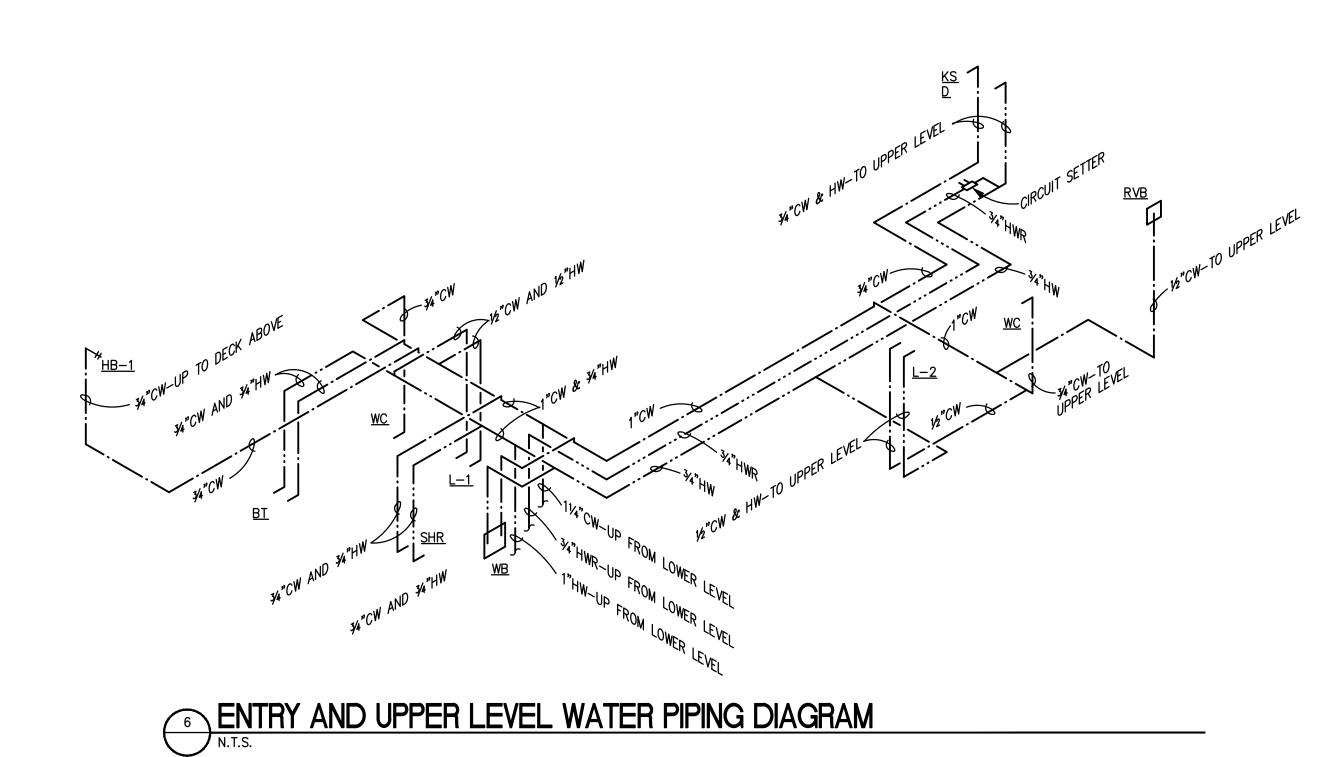


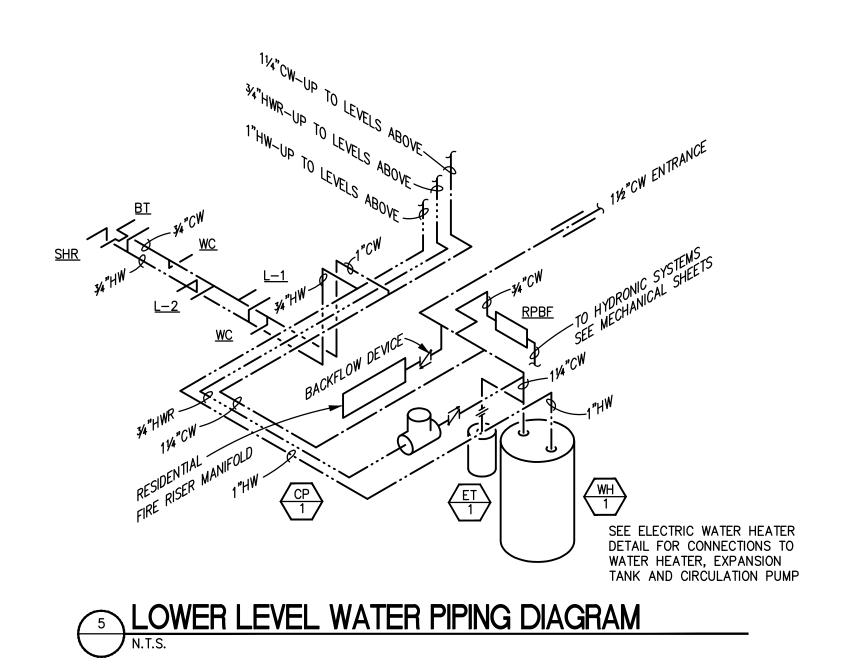
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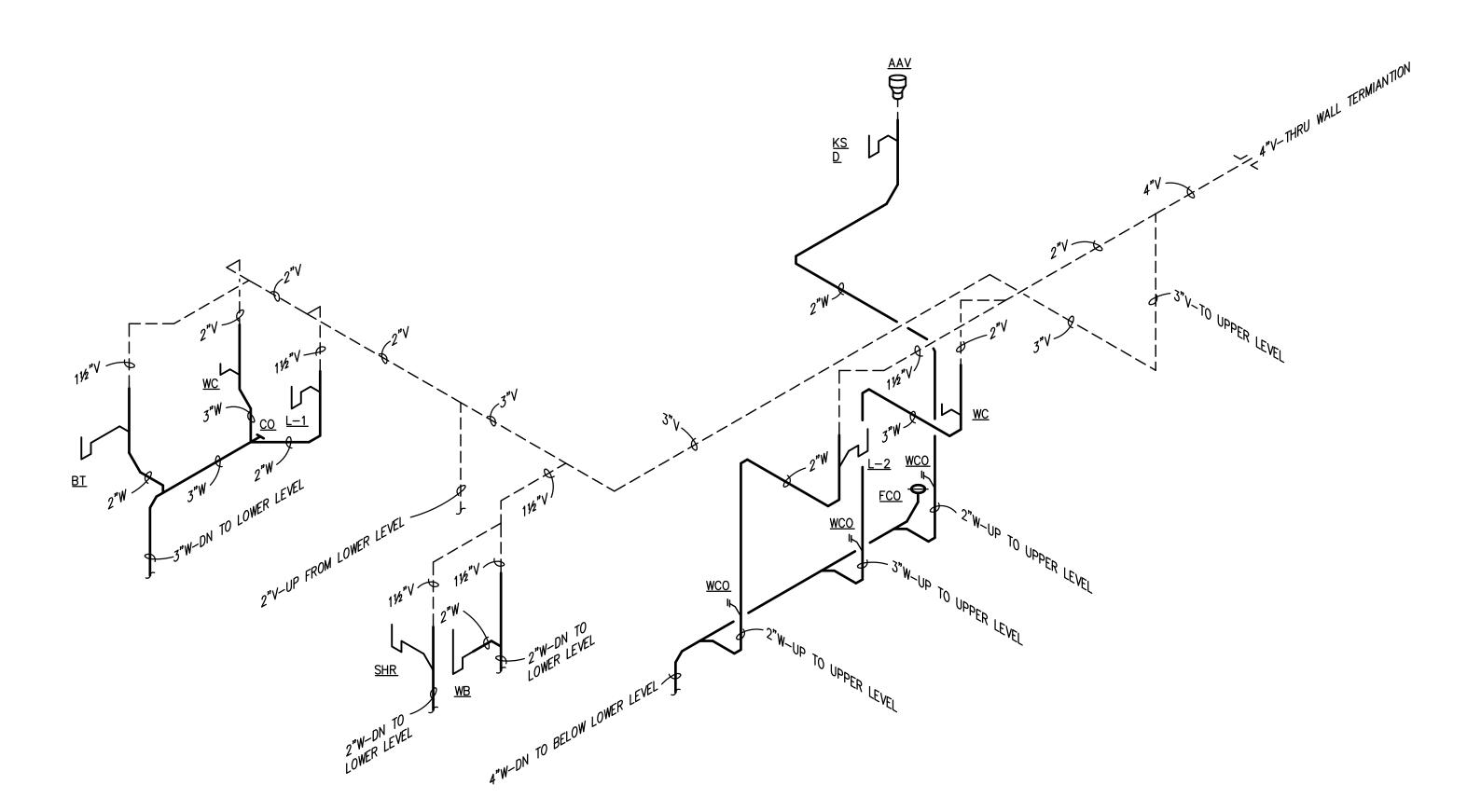
LOT 124 PLUMBING DIAGRAMS

NO SCALE

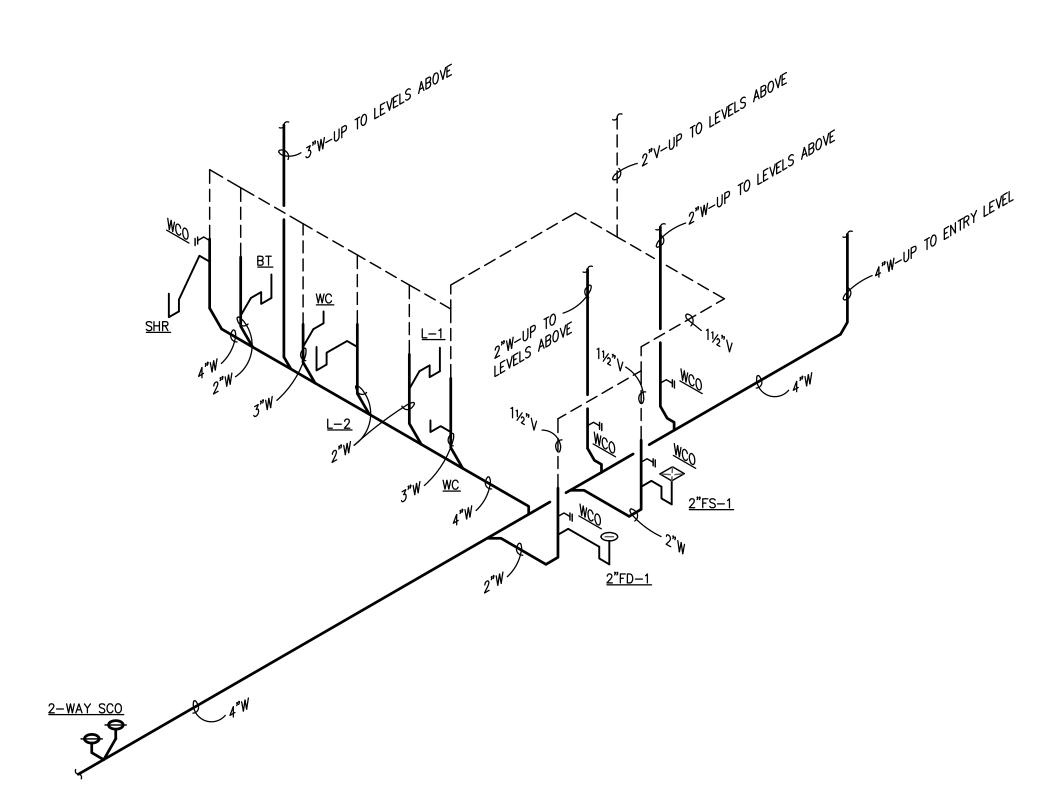
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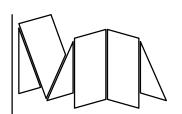


ENTRY AND UPPER LEVEL WASTE AND VENT DIAGRAM
N.T.S.



LOWER LEVEL WASTE AND VENT DIAGRAM
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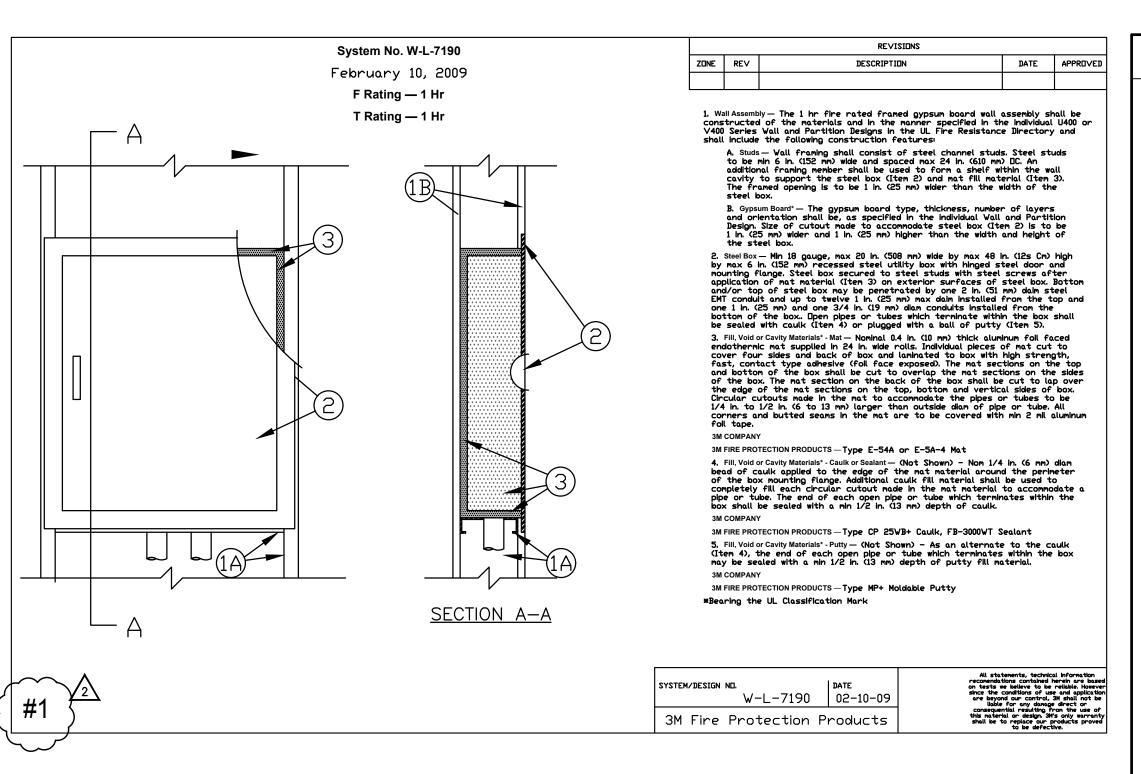


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LOT 133 PLUMBING DIAGRAMS

NO SCALE

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ELECTRICAL SYMBOLS (RESIDENTIAL)

- DUPLEX CONVENIENCE OUTLET MOUNTED AT +15" TO BOTTOM OR AS NOTED 'WP' DENOTES IN-USE WEATHERPROOF COVER.
- DOUBLE DUPLEX (FOURPLEX) RECEPTACLE MOUNTED AT +15" TO BOTTOM OR AS NOTED.
- DUPLEX CONVENIENCE OUTLET MOUNTED ABOVE COUNTER. MOUNTING HEIGHT AS NOTED.
- 50 AMP RECEPTACLE. RECESS MOUNTED. 120/240V, 4W
- HALF SWITCHED DUPLEX RECEPTACLE AT +15" TO BOTTOM OR AS NOTED.
- 0
- DUPLEX MOUNTED HORIZONTALLY

DUPLEX USB PORT

- FLUSH FLOOR DUPLEX CONVENIENCE OUTLET LEW ELECTRIC 812-DFB.

⇔ USB

(S)

- SMOKE DETECTOR SINGLE STATION 120V. WITH BATTERY, INTERCONNECTED.
- \bigcirc CARBON MONOXIDE DETECTOR - SINGLE STATION 120V. WITH BATTERY, INTERCONNECTED.
- CEILING MOUNTED OCCUPANCY SENSOR.
- TV OUTLET 52" A.F.F. OR AS NOTED.
- TELE/DATA OUTLET
- FLUSH FLOOR TELE/DATA OUTLET
- 0 J-BOX FLUSH MOUNTED FOR CEILING FAN. J-BOX SHALL BE U.L. LISTED FOR CEILING FAN APPLICATION AND SHALL BE INSTALLED PER N.E.C. 370-23, 370-27(c) AND 422-18.
 - PANELBOARD MOUNT AT +6'-6" TO TOP OR AS NOTED.
- MOTOR SIZE AS INDICATED ON DRAWINGS.
- DISCONNECT SWITCH SIZE AND FUSES AS PER MANUFACTURER'S RECOMMENDATIONS
- (WEATHERPROOF WHERE OUTSIDE).
- SINGLE POLE SWITCH MOUNTED AT +48" OR AS NOTED. SEE GENERAL NOTE #8 THIS SHEET.
- DIMMER SWITCH RATED FOR LOAD.
- 3-WAY SWITCH AT +48" OR AS NOTED.
- EXHAUST FAN 150 WATT, 120V. UNLESS NOTED OTHERWISE.
- GCFI GROUND FAULT CIRCUIT INTERRUPTER (REFER TO GENERAL RESIDENTIAL NOTES).
- AFCI ARC FAULT CIRCUIT INTERRUPTER (REFER TO GENERAL RESIDENTIAL NOTES).

4'-0" SURFACE MOUNTED LIGHTING FIXTURE

- 2'-0" SURFACE MOUNTED LIGHTING FIXTURE
- RECESSED WALL WASHER
- RECESSED SHOWER LIGHT
- WALL SCONCE

- ALL INTERIOR UNIT LIGHTING SHALL BE ON WALL DIMMERS, UNLESS
- 2. 'LUTRON' DECORA STYLE PLATES & SWITCHES & DEVICES, WHITE PLASTIC - MATTE, NOT GLOSSY FINISH.

	HVAC EQUIPMENT SCHEDULE										
UNIT NUMBER	EQUIPMENT DESCRIPTION	НР	KVA	KW	AMPS	VOLTS/ø	(See Note 1)	(See Note 2) STARTER	(See Note 3) BRANCH CIRCUIT**		
B	HOT WATER BOILER	_	-	10	_	240/1	60/2	_	(2)#6 CU, (1)#10 CU. GND.		
B B B B 2 4 3	HOT WATER BOILER	_	-	15	_	240/1	100/2	_	(2)#2 CU, (1)#8 CU. GND.		
MAU	MAKE UP AIR UNIT	FRAC.	-	5	_	240/1	30/2	_	(2)#10 CU, (1)#10 CU. GND.		
MH	ELECTRIC WATER HEATER	_	_	5.5	_	240/1	30/2	_	(2)#10 CU, (1)#10 CU. GND.		

- NEMA 3R WHERE OUTSIDE. PROVIDE FUSING PER HVAC EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- 2. ALL MOTOR STARTERS LOCATED OUTDOORS SHALL BE PROVIDED WITH TEMPERATURE COMPENSATED ELECTRONIC OVERLOADS IN LIEU OF BIMETALLIC OVERLOAD ELEMENTS.
- 3. ALL CONDUCTORS FEEDING HVAC EQUIPMENT SHALL BE COPPER WITH INSULATION RATED FOR 90 DEGREES C.
- 4. WIRE SIZE INDICATED BASED UPON TABLE 310.15(B)(16) NOT DE-RATED. ALL CONDUCTORS SERVING OUTDOOR EQUIPMENT AND/OR ROUTED OUTDOORS, SHALL BE DE-RATED FOR 117'-122'F (NEC TABLE 310.15(B)(2)(A). IN ADDITION, CONDUCTORS ON ROOF SHALL BE FURTHER DE-RATED PER NEC TABLE 310.15(B)(3)(C).

ELECTRICAL SPECIFICATIONS (RESIDENTIAL)

PART 1 GENERAL

- 1.1 SCOPE OF WORK
- A. Provide trenching and backfill in accordance with power and telephone company requirements.
- B. Verify with power and telephone companies the location of equipment, trench and conduit routing, termination locations, method of termination, pad size and other required information. Obtain drawing, specifications and instructions for all work.
- C. Pay utility company charges, including design and customer contribution charges. D. All materials shall be new, in good conditions and the product of an established and recognized manufacturer.
- E. All trade work shall be by skilled mechanics in accordance with best trade practice and shall include all item of fabrication, instruction or installation as regularly furnished or required for installation. When completed, all work shall be functional, durably built
- and installed and shall present a neat workmanlike appearance. F. Comply with the latest edition of the national electric code, state or city electric codes and the requirements of the telephone and power companies. Where conflicts occur, the more stringent requirement or the code enforced by the authority having jurisdiction
- G. Plan and install work so as to conform to structure, avoid obstructions, preserve headroom and keep openings and passageways clear. Consult architect immediately if conflicts occur.
- H. Protect material during storage and handling and subsequent to installation from damage. I. Provide temporary power and distribution for installation and testing operations.
- J. In general, the work shall consist of, but is not limited to, the following: 1. Panels, conduit, wiring, devices, etc., For all outlets and equipment.
- 2. Electrical service as indicated on the drawings.
- 3. Lighting fixtures with lamps: refer to fixture schedule.
- 4. Excavation and backfill. 1.2 QUALITY
- A. Codes and Standards: All work in this section will comply with the regulations of the State, County and their serving Power Company. All materials used shall have a UL label when normally available. National Electrical Code applies.
- B. Drawings: The drawings are generally diagrammatic. Coordinate the work so each piece of equipment will be installed as to function properly.

PART 2 PRODUCTS

- 2.1 BUILDING SERVICE A. Indicated on the drawings. Power Company charges included in base bid. Verify routing with the Power Company
- 2.2 SERVICE ENTRANCE EQUIPMENT A. As indicated on the drawings, conforming to the requirements of the power company,
- national and local electrical codes. Shop drawings shall be submitted to the Owner and the Power Company for approval. 2.3 PANELBOARD A. Building Branch Panels Shall Be Load Center Type; Circuit Breaker Shall Be Of The
- Quick-Make, Quick-Break, Thermal Magnetic Trip Ambient Compensated Interchangeable Type. Provide Panels With Doors. Tie Bars To Form Two Pole Breaker Sand Tandem Breakers Will Not Be Accepted. Panels Shall Be Type Indicated On The Drawings. 2.4 RACEWAYS
- A. Electrical Metallic Tubing: Used as permitted by codes.
- B. Galvanized Steel: Used as permitted by code and protected from corrosion. C. Liquidtight Flex Conduit: Used for outdoor motor and equipment connections shall be sunlight resistant listed.
- D. Non Metallic Conduit: UL labeled, Schedule 40 "PVC" conduit may be used for underground feeders and branch circuits where under slabs or protected by a 3 inch concrete envelope. Rigid steel sweep elbows shall be used for all bends on conduit sizes larger than one inch.
- 2.5 WIRE A. Conductors: Annealed copper wire. Wire No. 8 and larger shall be stranded.
- B. Insulation: Type THWN/THHN. C. Sizes: No wire smaller than No. 12 shall be installed, unless noted otherwise or per manufacturer's recommendations
- D. Non-metallic sheathed cable (NM Cable) with ground wire is acceptable for branch
- circuiting if approved by local authority.
- E. Aluminum Conductors: Permitted only for panel feeders where shown on plans.
- A. Provide each switch, light, receptacle, or their outlet throughout the building, and each pull and junction box, with outlet box manufactured by Steel City, Bowers, or RACO. Galvanized steel knockout type with approved plaster ring in masonry, or octagon box with plaster ring for ceiling outlet, and set flush with the finished surface.
- Non-metallic device boxers may be used if type "NM" cable is utilized. B. Junction and Pull Boxes: Provide with screw covers located in an accessible location. C. Interior Single Pole Switches: Lutron "Decora" Series or equal — color selected by
- D. Interior Dimmer Switches: Lutron "Decora" Series or equal (Low voltage where
- E. Weatherproof Outlets: Hubbell No. 5205 plate with 5252 outlets. F. Duplex Receptacles: "Lutron", "Lumea" Series.
- 2.7 SECURITY SYSTEM
- A. Furnished by allowance, contractor installed. B. Install in accordance with manufacturer's written instruction.
- PART 3 EXECUTION

3.1 WORKMANSHIP

- A. Conduit: In accordance with Tables 1 and 4 of the NEC, of such size and so installed that conductors may be drawn in without injury or excessive strain. B. Concealment: Conceal all conduit.
- C. Support and Joints: Firmly secure all conduit not embedded in concrete by approved pipe clamps, hangers, etc. Treat joints of galvanized conduit with approved joint
- D. Grounding: Ground all panelboard cabinets, equipment and enclosure and the complete conduit system in accordance with pertinent sections of Article 250 of the NEC. Bond all electrically operated equipment to the grounding system. Provide a mechanical bonding conductor in all raceways or cable assemblies sized in accordance with NEC 250-95.
- E. Wiring: Do not draw wiring into conduit until conduit system is complete; lubricant
- shall be Mineralacc or type approved by wiring manufacturer. F. Fixtures: Provide fixtures as indicated on schedule with lamps of required type and wattage. Verify ceiling construction for all recessed fixtures prior to ordering. Install all fixtures at locations shown. Provide fixtures with I.C. rating in insulated ceiling areas.
- G. Connections to Equipment: Make all power wiring connections for equipment furnished under other sections of these specifications, including necessary wiring for all air handlers, compressors, pumps, etc. Make connections to motors with flexible liquidtight conduit. Obtain required information from other trades and rough-in to meet requirements of equipment.
- H. Verify nameplate ratings of all equipment and recommendations for breaker sizes prior
- to installation. Provide disconnect switches and fuses at equipment where indicated. I. Coordinate all aspects of the mechanical systems with the mechanical contractor prior to installation. Coordinate control requirements, provide relays, starters, etc., when not furnished with equipment.

GENERAL RESIDENTIAL NOTES:

- ALL RECEPTACLES IN THE FOLLOWING AREAS SHALL BE GFCI PROTECTED: KITCHEN COUNTERS, BATHROOMS, WET BAR SINKS, GARAGES, AND OUTDOORS PER NEC 210-8(a).
- PROVIDE A MINIMUM OF TWO 20 AMP SMALL APPLIANCE BRANCH CIRCUITS FOR RECEPTACLES IN THE KITCHEN PER NEC210-11(c)(1). THESE CIRCUITS SHALL HAVE NO OTHER OUTLETS PER NEC 210-52(b)(2).
- RECEPTACLES SERVING KITCHEN COUNTER SPACES MUST BE SPACED SO NO POINT OF A COUNTER IS FURTHER THAN 24" FROM A RECEPTACLE. ISLANDS AND PENINSULAR COUNTERS MAY HAVE NO POINT FURTHER THAN 4' FROM A RECEPTACLE. NEC210-52(c). A RECEPTACLE SHALL BE INSTALLED AT EACH WALL COUNTER SPACE THAT IS 12" OR MORE IN WIDTH PER NEC 210-52(c)(1). MOUNT HORIZONTAL AS PER ARCHITECTURAL DETAIL.
- A DEDICATED 20 AMP BRANCH CIRCUIT SHALL BE PROVIDED FOR ALL THE BATHROOMS PER NEC 210-11(c) (3). PROVIDE A WALL MOUNTED RECEPTACLE OUTLET WITHIN 36" OF THE BATHROOM OR POWDER ROOM LAVATORY PER NEC 210-52(d). MOUNT HORIZONTAL AT +42" AFF.
- ALL BRANCH CIRCUITS SUPPLYING RECEPTACLES IN ROOMS IDENTIFIED BY NEC 210-12(B) OUTLETS SHALL BE ARC-FAULT CIRCUIT INTERRUPTER (AFCI) PROTECTED.
- PROVIDE A DEDICATED 20 AMPERE BRANCH CIRCUIT TO THE LAUNDRY PER NEC 210-11(c)(2).
- ELECTRIC RANGES AND CLOTHES DRYERS SHALL BE SUPPLIED BY 4-WIRE GROUNDING TYPE CORD & PLUG ASSEMBLY PER NEC 250-134 & 138. RANGE & DRYER ENCLOSURES SHALL NOT BE GROUNDED BY CONNECTION TO THE GROUNDED CIRCUIT CONDUCTOR.
- REFER TO ARCHITECTURAL RESIDENTIAL UNIT PLANS DRAWINGS FOR EXACT LOCATIONS OF ALL LIGHT FIXTURES, CEILING FANS, AND FLOOR
- THE ELECTRICAL CONTRACTOR & PLUMBING CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF SHOWER DRAINS AND SHOWER
- 10. ALL CONDUIT INSIDE MECHANICAL ROOMS SHALL BE ROUTED CONCEALED IN WALLS. COORDINATE LOCATIONS OF HEAT PUMP DISCONNECT SWITCH WITH HVAC CONTRACTOR PRIOR TO ROUGH-IN.
- REFER TO ARCHITECTURAL RCP DIMENSIONED PLANS FOR ALL SMOKE/CARBON MONOXIDE DETECTOR LOCATIONS.

CAN LIGHTS PRIOR TO ROUGH-IN OF THE DRAINS.

- 12. IN ALL AREAS SPECIFIED IN NEC 210.52, ALL 15-AMPERE AND 20-AMPERE RECEPTACLES SHALL BE LISTED TAMPER RESISTANT RECEPTACLES AS REQUIRED BY NEC 406.11.
- 13. ALL RECEPTACLES LOCATED OUTDOORS SHALL BE LISTED AS "WEATHER-RESISTANT" AND SHALL BE INSTALLED IN A WEATHER-PROOF ENCLOSURE. WEATHER-PROOF ENCLOSURE SHALL BE LISTED FOR USE IN WET LOCATIONS PER NEC ART. 406.9(B).

GENERAL NOTES:

ALL CONDUIT SHALL BE CONCEALED.

PVC OR PVC COATED MC CABLE.

- 2. ALL LIGHTING FIXTURE & OUTLET BOXES SHALL BE RECESSED.
- ALL BRANCH CIRCUITING CAST INTO SLAB SHALL BE SCHEDULE 40



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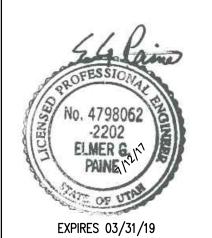
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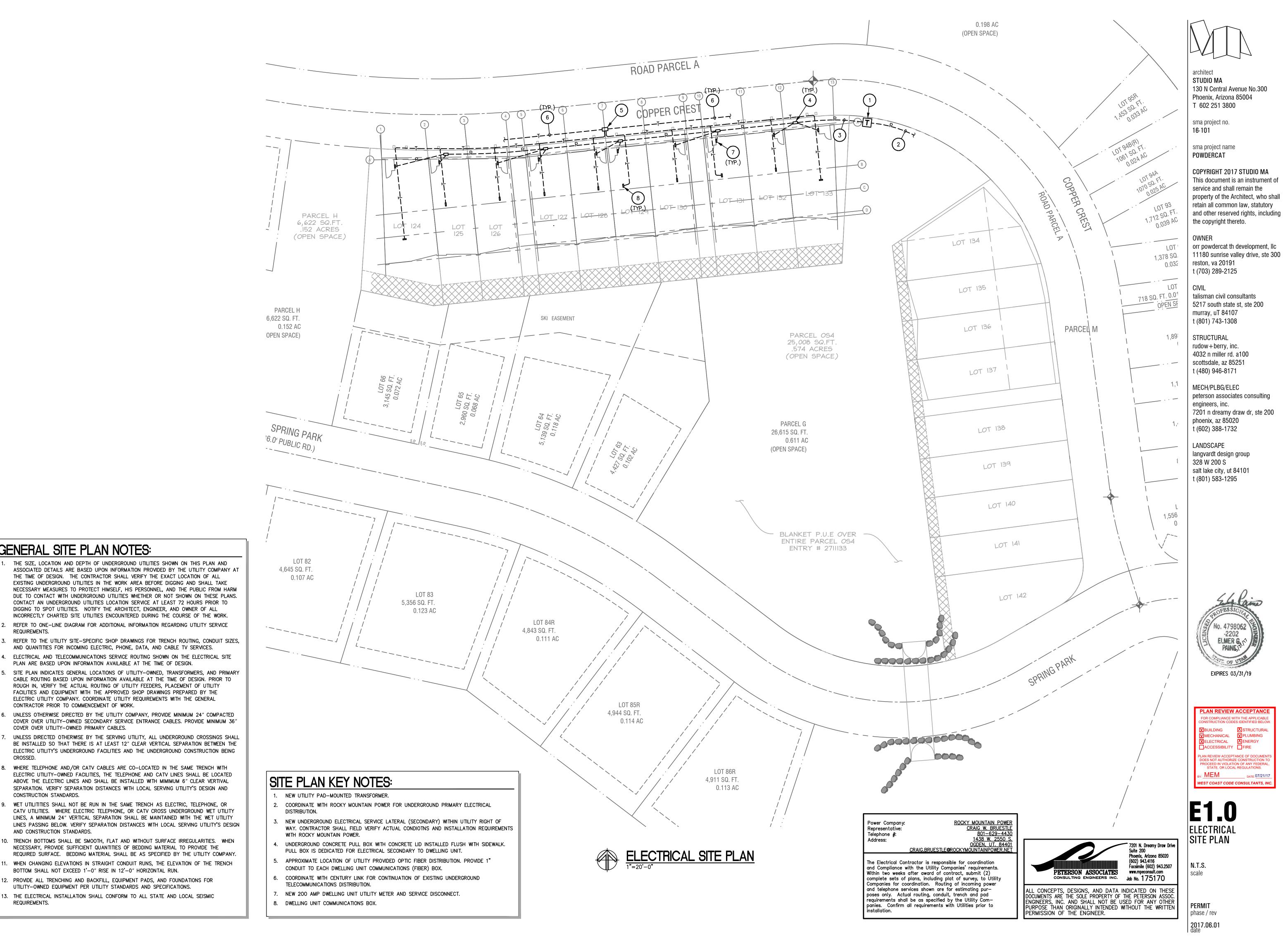
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7201 N. Dreamy Draw Driv

scale CITY COMMENTS **′2** \ 7/12/2017

PERMIT SET phase / rev

2017.06.01



-2202

ELMER G.

GENERAL SITE PLAN NOTES:

CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.

COVER OVER UTILITY-OWNED PRIMARY CABLES.

PLAN ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF DESIGN.

BOTTOM SHALL NOT EXCEED 1'-0" RISE IN 12'-0" HORIZONTAL RUN.

UTILITY-OWNED EQUIPMENT PER UTILITY STANDARDS AND SPECIFICATIONS.

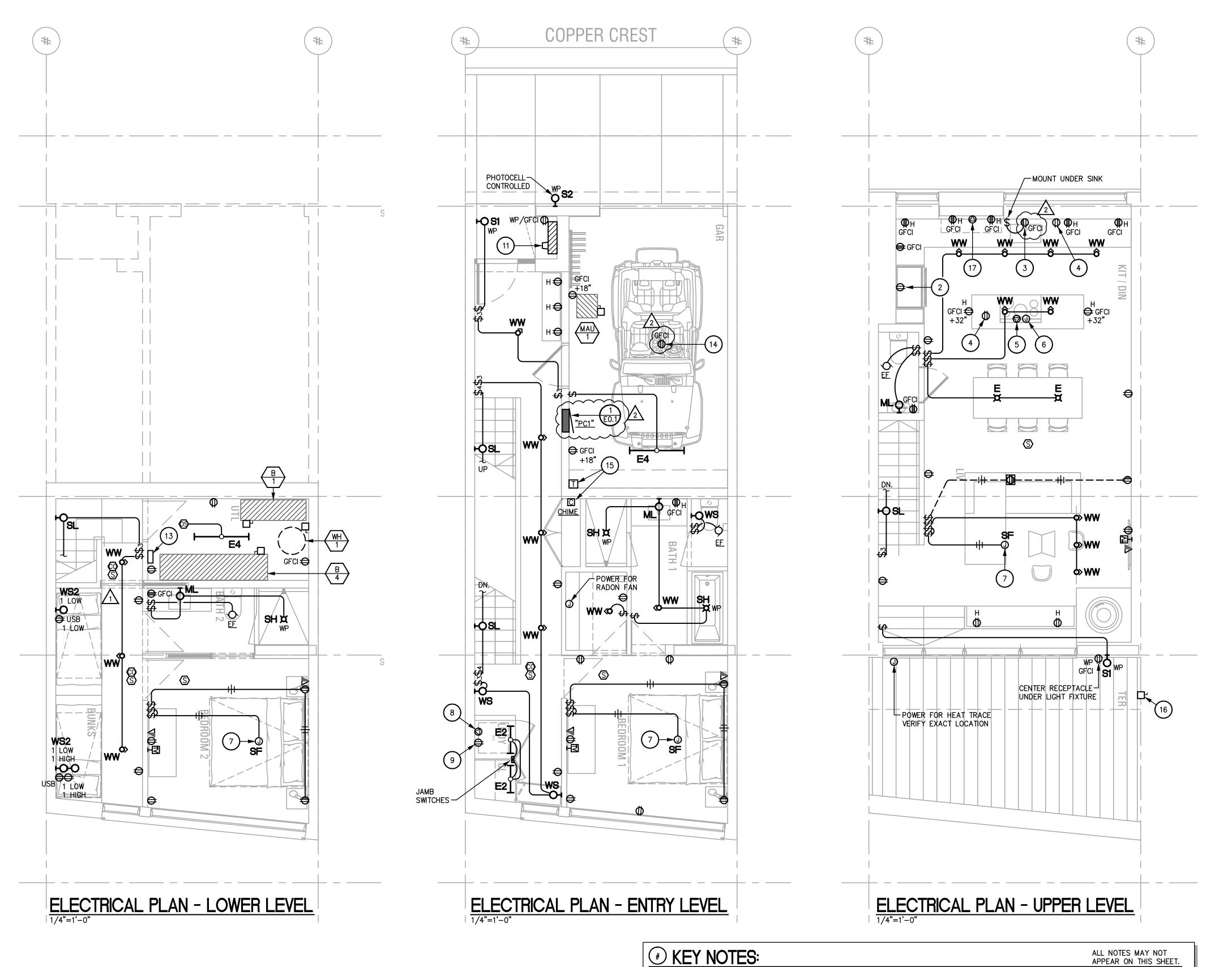
REQUIREMENTS.

CROSSED.

CONSTRUCTION STANDARDS.

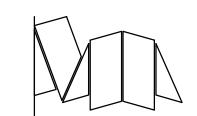
AND CONSTRUCTION STANDARDS.

REQUIREMENTS.



GFCI OUTLETS FOR SMALL APPLIANCES, MOUNTED AT +42" A.F.F. OR AS PER ARCHITECTURAL DETAIL.

- 2. RECEPTACLE AT +36" A.F.F. FOR REFRIGERATOR.
- 3. HALF-SWITCHED RECEPTACLE BELOW COUNTER FOR GARBAGE DISPOSAL AND DISHWASHER.
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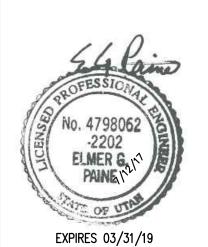
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TYPICAL UNIT ENTRY AND LOWER LEVEL FLOOR PLANS

1/4" = 1'-0"

CITY COMMENTS 7/12/2017 PERMIT SET phase / rev

2017.06.01 date

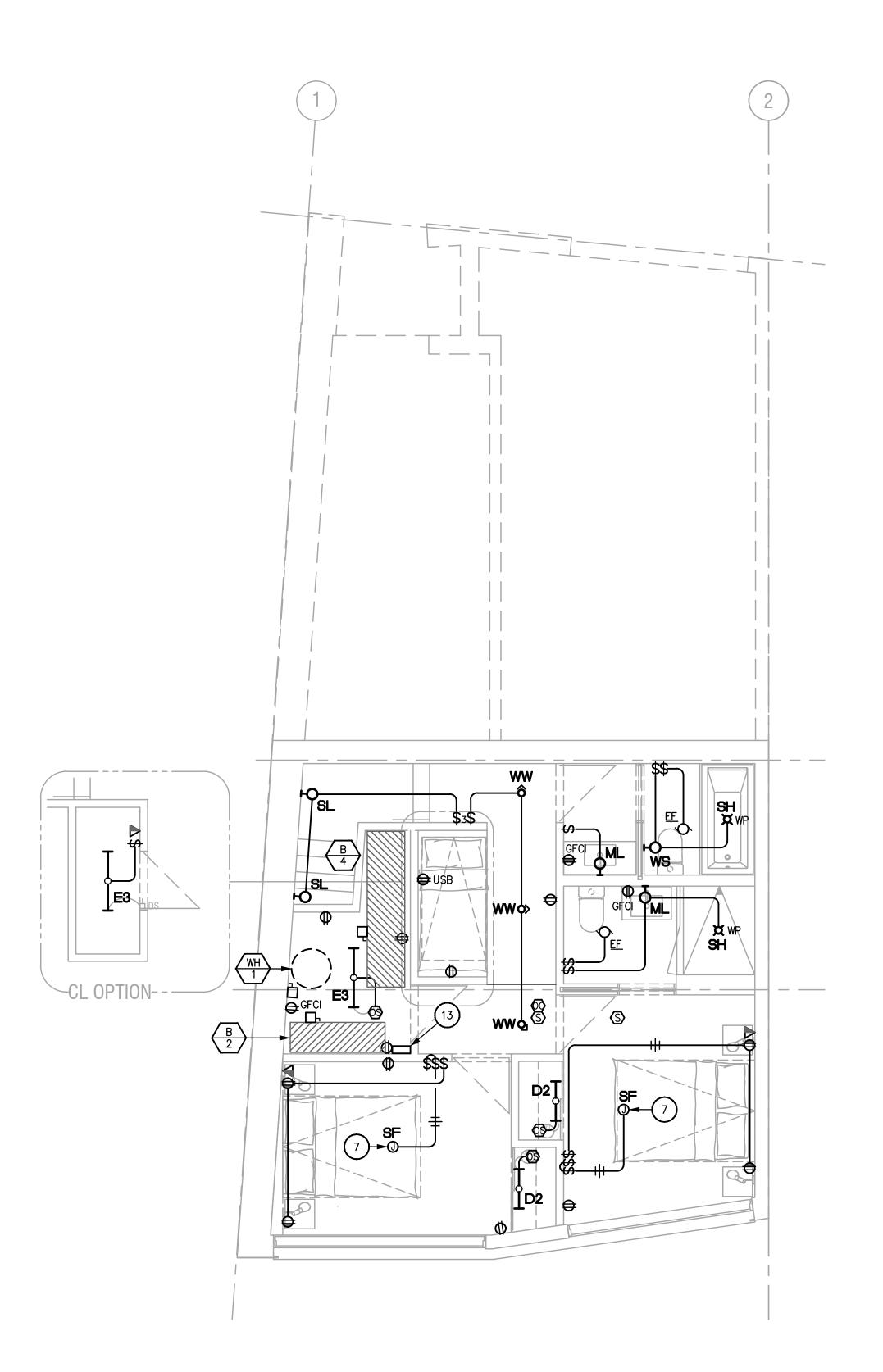
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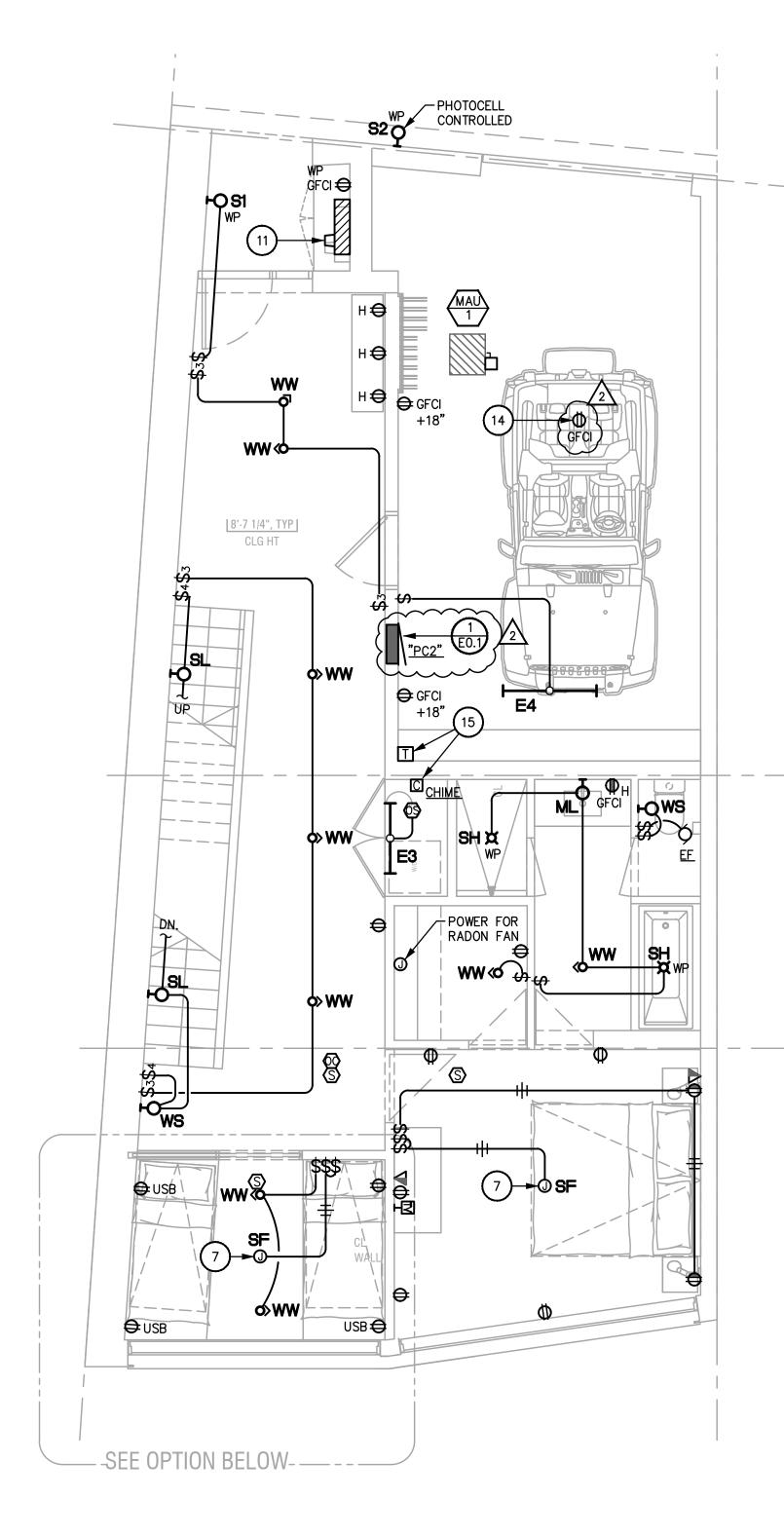
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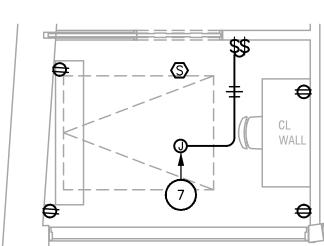
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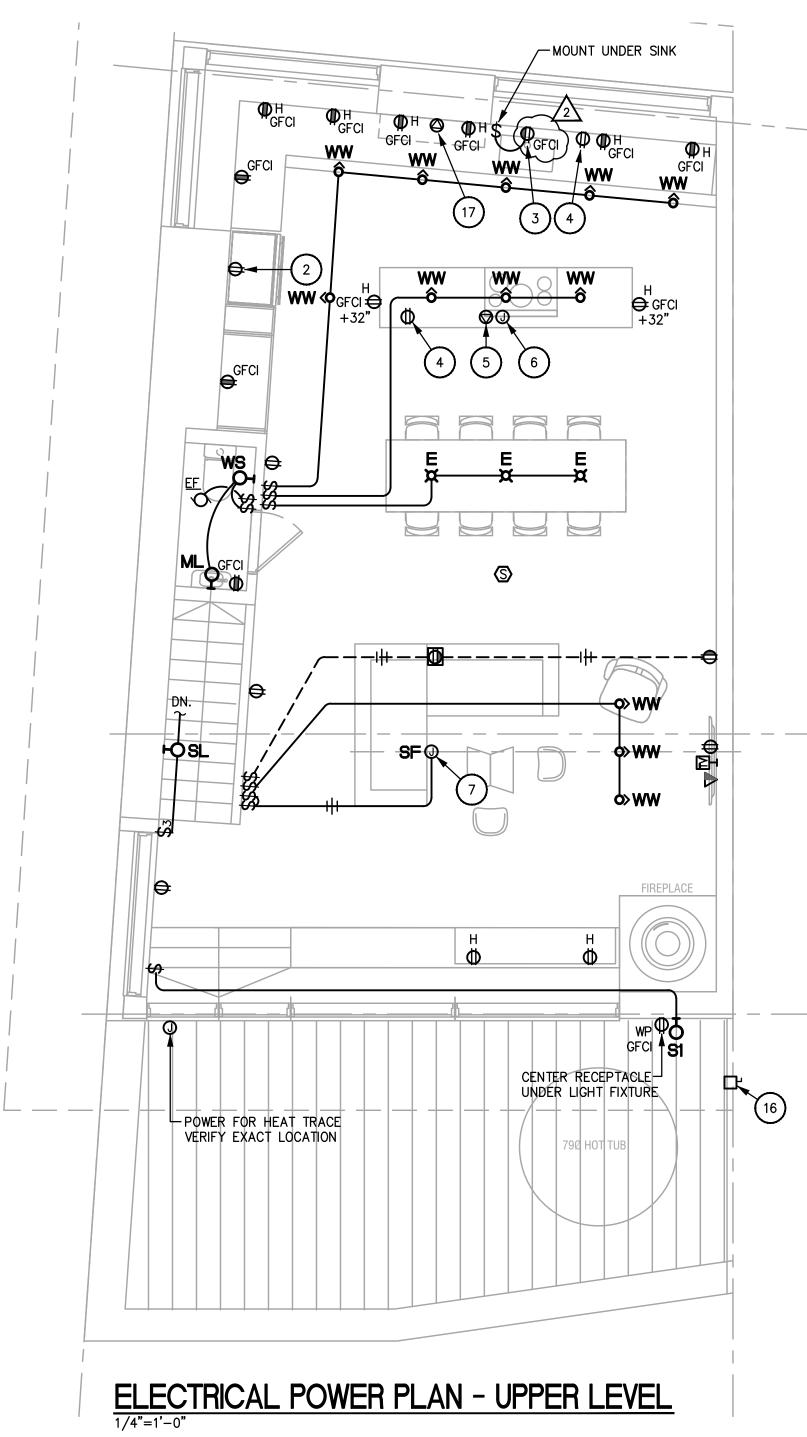
ELECTRICAL POWER PLAN - LOWER LEVEL





ENTRY LEVEL

ELECTRICAL POWER PLAN - ENTRY LEVEL

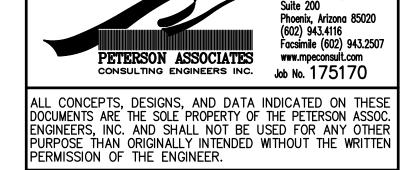


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sma project no. **16-101**

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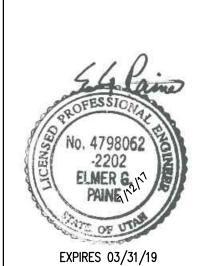
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FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

BUILDING STRUCTURAL PLUMBING ELECTRICAL ENERGY

ACCESSIBILITY FIRE

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BY: MEM DATE: 07/21/17

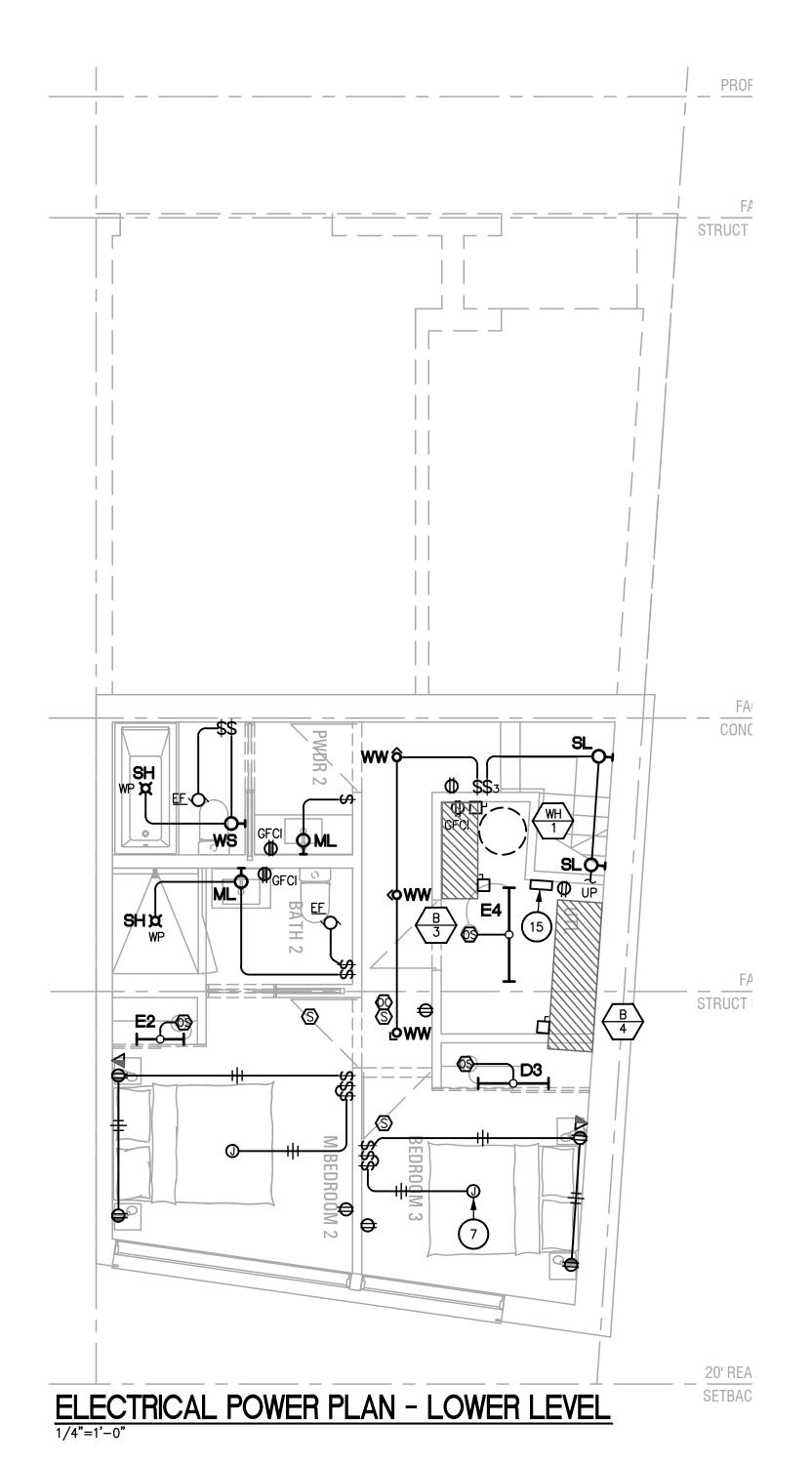
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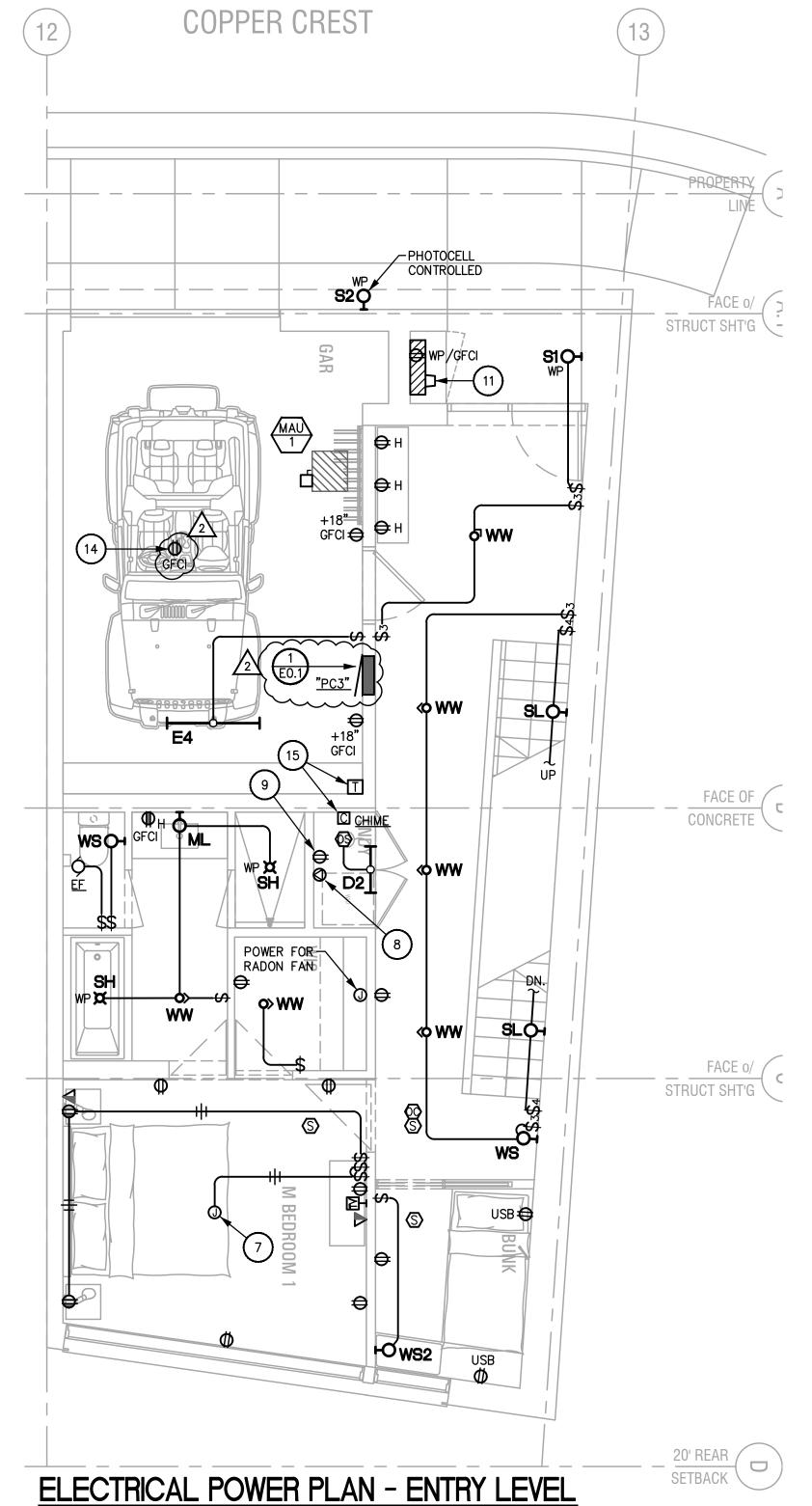
E2.1
LOT 124 ENTRY AND LOWER LEVEL FLOOR

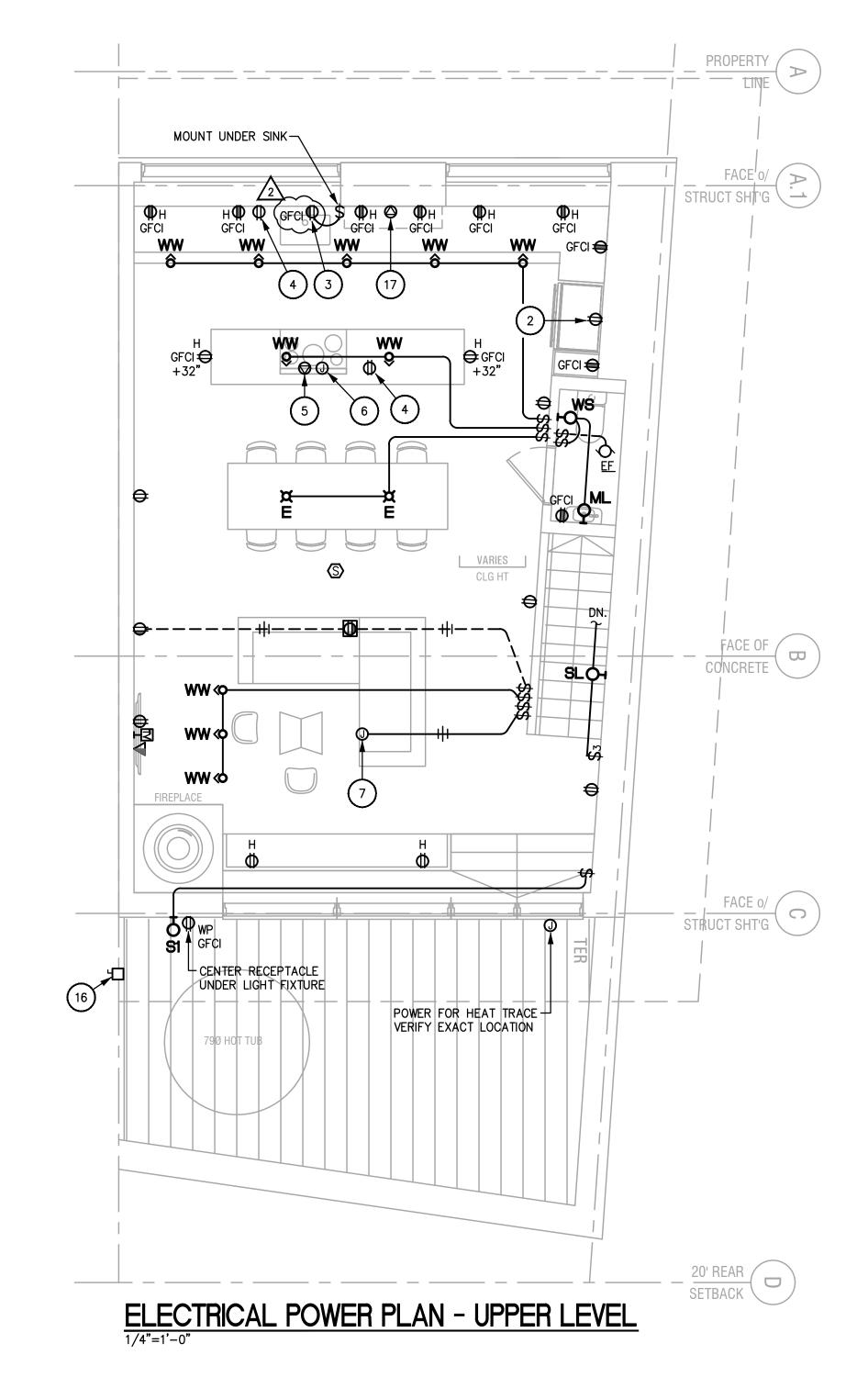
1/4" = 1'-0" scale

CITY COMMENTS
7/12/2017

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phase / rev







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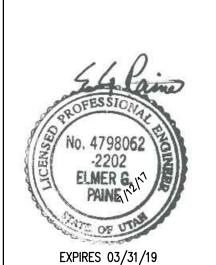
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E2.2
LOT 133 ENTRY AND LOWER LEVEL FLOOR

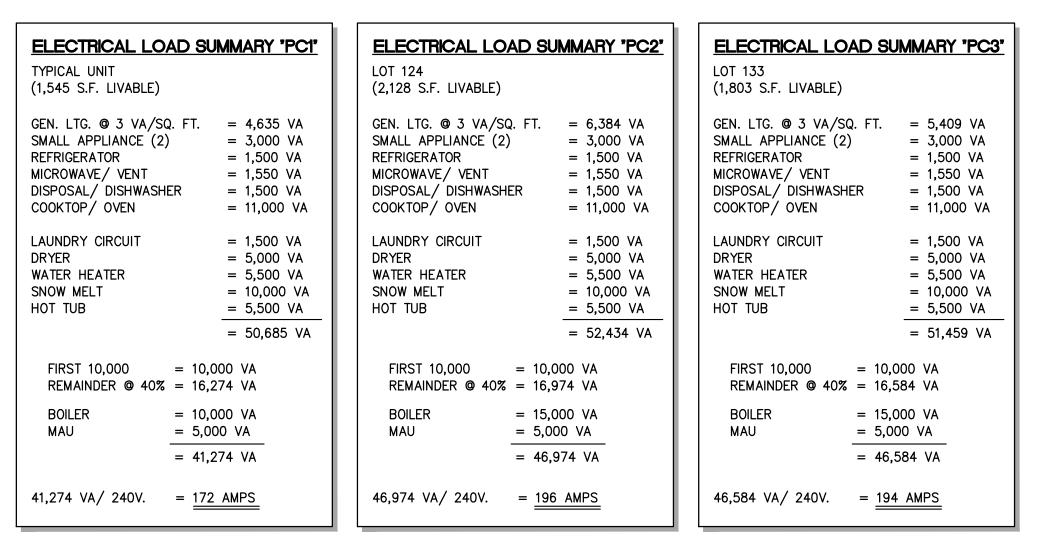
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scale

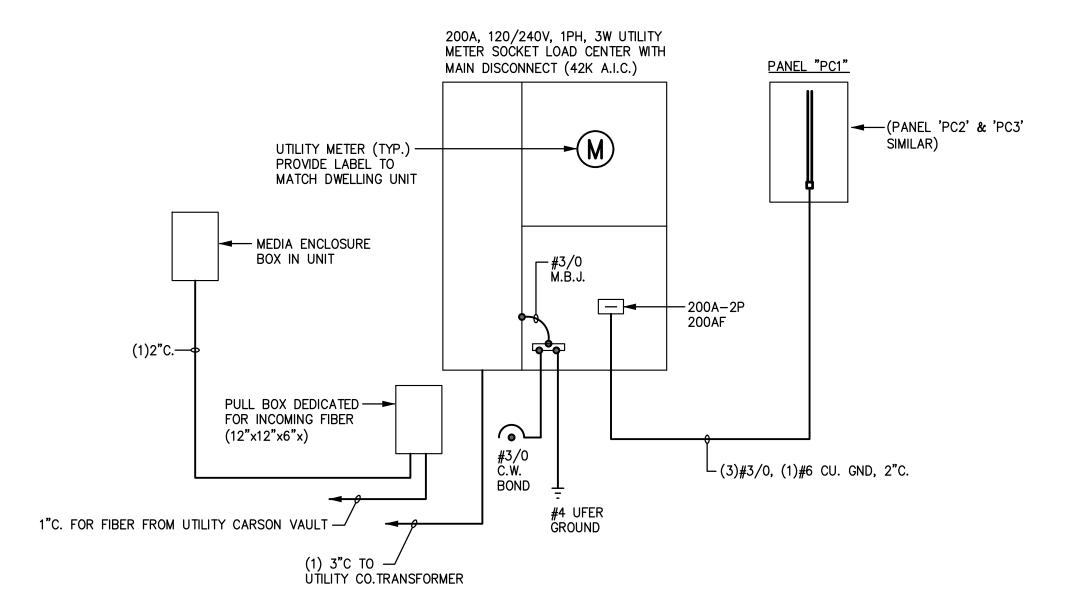
CITY COMMENTS
7/12/2017

PERMIT SET
phase / rev

Isolated Ground Bus: NO Cabinet: NEMA 1		PANEL SCHEDULE (TYPICAL UNIT)		"PC1"	Status: NEW
Type: BOLT-ON Mountin	g: SURFACE	Voltage: 120/240V1Ph3W.	Bracing: S.F	R. 42/10	Mains: 200A. MLO
Use and/or Area Served	C/B Cir. No	Volt-Amperes	- Cir. No.	C/B Use and/or Are	na Sanyad
Ose and/or Area Served	G/B CII. 140	Phase A Phase B	011.110.	OSE ANA/OF ATE	a Serveu
LTG & RECEPTS.	20/1 1		2	20/1 RECEPTS - S	MALL APPLIANCE
LTG & RECEPTS.	20/1 3		2	20/1 RECEPTS - S	SMALL APPLIANCE
LTG & RECEPTS.	20/1 5			20/1 RECEPTS - F	REFRIGERATOR
LTG & RECEPTS.	20/1 7		6 2	20/1 RECEPTS - N	/ICROWAVE
LTG & RECEPTS.	20/1 9	\dashv $\widehat{\phi}$	8 2	20/1 RECEPTS - D	DISPOSAL/ DISH
LTG & RECEPTS.	20/1 11	CALCULATIONS)	10	WASHER COOKTOP	
SPARE	20/1 13	⊢ Ĕ	12		
SPARE	20/1 15	7	14	30/2 OVEN	
SMOKE/ C.O. DETECTORS	20/1 17	∣ ପ୍	16		
RECEPTS - BATH	20/1 19	 	18	SPACE	
RECEPTS - BATH	20/1 21		20	SPACE	
RECEPTS - BATH	20/1 23	LOAD	22	20/1 LAUNDRY	
RECEPTS - GARAGE	20/1 25		24	30/2 DRYER	
			26	DRIER	
RECEPTS - EXTERIOR	20/1 27	H	28		
RADON FAN	20/1 29	┙	30	10/2 HOT TUB	
HEAT TRACE	20/1 31	(RE	32		
MAU (5KW)	30/2 33			30/2 WATER HEA	TER (5.5KW)
	35		36		
BOILER (10KW)	60/2 37		6	50/2 SNOW MELT	(10KW)
	39	_	38		
			40		

A - CIRCUIT AFCI PROTECTED G - CIRCUIT GFCI PROTECTED





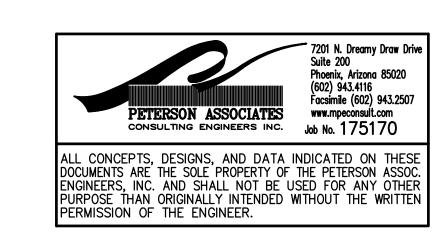
ELECTRICAL ONE-LINE DIAGRAM

Isolated Ground Bus: NO Cabinet: NEMA 1			PANEL SC (LOT 12	SCHEDULE "PC2"		PC2"	Status: NEW	
Type: BOLT-ON Mounting	SURFA	CE	Voltage: 120/240)V1Ph3W.	Bracing:	S.R. 42	2/10	Mains: 200A. MLO
Use and/or Area Served	C/B	Cir. No.	Volt-An	nperes Phase B	- Cir. No.	C/B	Use and/or Are	a Served
LTG & RECEPTS.	20/1	1				20/1	RECEPTS - S	MALL APPLIANCE
LTG & RECEPTS.	20/1	3	-		2	20/1	RECEPTS - S	MALL APPLIANCE
LTG & RECEPTS.	20/1	5	-		6	20/1	RECEPTS - R	EFRIGERATOR
LTG & RECEPTS.	20/1	7	-		8	20/1	RECEPTS - M	IICROWAVE
LTG & RECEPTS.	20/1	9	<u> </u>	2	10	20/1	RECEPTS - D	ISPOSAL/ DISH
LTG & RECEPTS.	20/1	11		5	12	50/2	COOKTOP	
LTG & RECEPTS.	20/1	13		<u>-</u>	14			
LTG & RECEPTS.	20/1	15	<u> </u>) 1	16	30/2	OVEN	
SMOKE/ C.O. DETECTORS	20/1	17	"	j)	18			
RECEPTS - BATH	20/1	19	1 8				SPACE	
RECEPTS - BATH	20/1	21		2	20		SPACE	
RECEPTS - BATH	20/1	23	ַ בַּעַּ בַּעַ		22	20/1	LAUNDRY	
RECEPTS - GARAGE	20/1	25	ļ <u>ē</u>	_	24	30/2	DRYER	
RECEPTS - EXTERIOR	20/1	27		_	28			
RADON FAN	20/1	29			30	40/2	HOT TUB	
HEAT TRACE	20/1	31	<u>ш</u>		32			
MAU (5KW)	30/2	33	1		34	30/2	WATER HEA	TER (5.5KW)
		35	1		36			
BOILER (15KW)	80/2	37	-		38	60/2	SNOW MELT	(10KW)
		39	-		40			

A - CIRCUIT AFCI PROTECTED G - CIRCUIT GFCI PROTECTED

Isolated Ground Bus: NO Cabinet: NEMA 1			PANEL SC (LOT 133			"	PC3"	Status: NEVV
Type: BOLT-ON Mountin	ng: SURFA	CE	Voltage: 120/240	V1Ph3W.	Bracing:	S.R. 42	2/10	Mains: 200A. MLO
Use and/or Area Served	C/B	Cir. No.	Volt-Am	peres	- Cir. No.	C/B	Use and/or Are	on Convod
OSE AND/OF Area Serveu	U/B	CII. IVO.	Phase A	Phase B	GII. IVO.	C/B	Use and/or Are	a Serveu
LTG & RECEPTS.	20/1	1			2	20/1	RECEPTS - S	MALL APPLIANCE
LTG & RECEPTS.	20/1	3	- -			20/1	RECEPTS - S	SMALL APPLIANCE
LTG & RECEPTS.	20/1	5	1		4	20/1	RECEPTS - F	REFRIGERATOR
LTG & RECEPTS.	20/1	7	1		6	20/1	RECEPTS - N	MICROWAVE
LTG & RECEPTS.	20/1	9	\exists		8	20/1)ISPOSAL/ DISH
LTG & RECEPTS.	20/1	11	ļ Ž		10	50/2	WASHER COOKTOP	
LTG & RECEPTS.	20/1	13	CALCULATIONS		12			
SPARE	20/1	15	וַ בַּ		14	30/2	OVEN	
SMOKE/ C.O. DETECTORS	20/1	17	ರ		16			
RECEPTS - BATH	20/1	19]		18		SPACE	
			l _		20			
RECEPTS - BATH	20/1	21	LOAD		22		SPACE	
RECEPTS - BATH	20/1	23	\		24	20/1	LAUNDRY	
SPACE		25	၂ ဥ		26	30/2	DRYER	
SPACE		27	<u> </u>		28			
RADON FAN	20/1	29			30	40/2	HOT TUB	
HEAT TRACE	20/1	31	(REF		32			
MAU (5KW)	30/2	33]		34	30/2	WATER HEA	TER (5.5KW)
		35	1		36			
		+	4		30	60/2	CNOVALNELE	(4.012)A.0
BOILER (15KW)	80/2	37			38	00/2	SNOWMELT	(TUKVV)

A - CIRCUIT AFCI PROTECTED G - CIRCUIT GFCI PROTECTED



STUDIO MA 130 N Central Avenue No.300 Phoenix, Arizona 85004 T 602 251 3800

sma project no. 16-101

sma project name POWDERCAT

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PLAN REVIEW ACCEPTANCE FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW ■BUILDING STRUCTURAL MECHANICAL MPLUMBING
MELECTRICAL MENERGY

ACCESSIBILITY FIRE PLAN REVIEW ACCEPTANCE OF DOCUMENTS DOES NOT AUTHORIZE CONSTRUCTION TO PROCEED IN VIOLATION OF ANY FEDERAL, STATE, OR LOCAL REGULATIONS. BY: MEM WEST COAST CODE CONSULTANTS, INC

ONE-LINE DIAGRAM

N.T.S. scale

phase / rev **2017.06.01** date SECTION 15300 - FIRE PROTECTION SPECIFICATION (Wet Automatic Sprinkler System)

PART 1 GENERAL

- 1.1 General Conditions and Special Conditions:
- A. Bidding requirements, general conditions, general requirements, appendices, and addendums apply to the work under this section as depicted in Project Specification
- 1.2 General Description:
- A. Provide all materials, labor, and equipment required for new wet, Automatic Sprinkler (A.S.) system in accordance with State Fire Marshal, National Fire Protection Association (N.F.P.A.), International Building Code (I.B.C.), Local Fire Prevention Department, Local Building Department and any other authorities having jurisdiction. It shall further include furnishing and installing all miscellaneous items required for the proper operation of the A.S. system, whether specifically called for or not. Install and deliver all systems complete, in perfect working order, and in full accordance with the intent and meaning of the specifications and/or drawings.
- B. This Contract shall begin at point of connection to the underground riser supply line. Coordinate required work with Utility Contractor.
- 1.3 Intent of Specifications:
- A. It is intended that the work performed pursuant to these specifications shall be complete in every respect; resulting in a system installed entirely in accordance with all applicable codes, standards, manufacturer's recommendations and UL listings and FM approvals. All work in general consists of, but is not necessarily limited to, these specifications and latest accepted code approved design and installation standards.
- B. It is further intended that upon completion of work, the Owner shall be provided with
- 1. Complete information and drawings describing and depicting the entire system(s) as installed, including all information necessary for maintaining and trouble-shooting the system.
- 2. Complete documentation of system testing.
- 3. Written certification that the system(s) has been tested and inspected, is installed entirely in accordance with the applicable codes, standards, manufacturer's recommendations, U.L. listings, F.M. approvals, etc. and is in proper working
- 4. It is intended that the Contractor be responsible for work with other trades.

1.4 Related Work Provided by Other Sections:

- A. The following related work shall be performed under other sections:
- 1. Painting of sprinkler piping and valves, including the placement and removal of bags or other protection devices on sprinklers to prevent paint from touching any portion of the sprinkler.
- 2. Alarm system shall be provided by Electrical and/or Alarm Contractor(s).
- 3. Concrete filled pipe guard posts for protection of riser(s), backflow assembly, etc. shall be provided where equipment or materials are subject to vehicular traffic.
- 4. Concrete splash blocks at main drain, inspector's test outlets and auxiliary drain outlets, if necessary.

1.5 Work to be Performed:

- A. Complete automatic sprinkler system protection throughout the project in accordance with these specifications and drawings.
- B. Be fully informed regarding all regulations and limitations of the spaces available for installation of the automatic sprinkler system. Later claims for labor, work, material and equipment required for any difficulties encountered that could have clearly been foreseen will not be recognized, and all such difficulties shall be properly handled by this Contractor at no additional cost to the Owner.
- C. Accuracy of pre-fabricated pipe, location of sprinklers and deflectors (per NFPA and inspections), field fit of piping, piping elevations, riser nipple lengths and dimensioning.
- 1.6 Codes, Standards, Ordinances and Permits:
- A. All work shall conform to the requirements of the applicable portions of the National Fire Protection Association (NFPA) Standards and Recommended Practices (including Appendices) listed herein:
- 1. NFPA-13D, current Edition, "Standard for the Installation of Sprinkler Systems".
- 2. NFPA-24, current Edition, "Private Fire Service Mains and their Appurtenances"
- 3. NFPA-25, current Edition, "Inspection Testing and Maintenance of Water-Based Fire Protection Systems".
- B. All work, materials, and equipment shall conform to all Local, State and Federal Codes as well as all other authorities having jurisdiction. If more current editions of aforementioned standards, or additional standards are required then they shall be applied.
- C. If there is a conflict between the referenced standards, codes, or authorities having jurisdiction: then it shall be the Contractor's responsibility to bring the conflict to the attention of the Owner or his/her Agent immediately for resolution prior to commencement of any additional work. This conflict shall be resolved at no additional cost to the Owner.
- D. The Contractor shall be responsible for filing all documents, paying all fees and securing all permits, inspections and approvals necessary for conducting this work.

1.7 Quality Assurance:

A. Installer Qualifications: Installation and alterations of fire protection piping, equipment, specialties, accessories, and repair and servicing of equipment shall be performed only by a qualified installer. The term qualified means experienced in such work (experienced shall mean having a minimum of 5 previous projects similar in size and scope to this project), familiar with all precautions required and has complied with all the requirements of the authorities having jurisdiction. Installer shall be licensed with the State and Local authorities having jurisdiction. Submit evidence of such qualifications to the Owner or his/her Agent with submission of bid.

1.8 Definitions:

- A. Contractor: The Fire Protection Contractor and any of his/her sub-contractors, vendors, suppliers, or fabricators.
- B. Provide: Furnish and install.
- C. Furnish: Purchase and deliver to other trades or Owner for installation.
- D. Install: Install materials, equipment or assemblies furnished by other trades or Owner.
- E. Concealed: Where used in connection with installation of piping and accessories, shall mean that hidden from sight as in chases, furred spaces, pipe shafts, or above suspended ceilings. "Exposed" shall mean "not concealed" as defined above.
- F. Fire Protection Consultant:

Peterson Associates Consulting Engineers, Inc.

1.9 Submittals:

A. The Owner or his Agent, Architect and Fire Protection Consultant shall review all submittals for conformance to these specifications.

or method of installation, from that specified, with material submittals.

- B. Contractor may submit for review and approval any proposed substitution of materials
- C. If submittals or proposed substitutions, upon review are found not to conform to the requirements of these specifications, the Contractor shall be required to resubmit with modification. Not approved items shall be resubmitted. The Contractor shall be responsible for the Owner's expenses for subsequent revisions of rejected submittals necessitated by the Contractor's failure to make the requested modifications. Such extra fees shall be deducted from payments by the Owner to the Contractor.

1.10 Manufacturer's Data:

- A. The Contractor shall submit manufacturer's data sheets showing the type and model of all equipment or material proposed. This information shall include, but not be limited
- B. When a data sheet shows more than one product, the proposed product shall be clearly indicated by arrows or other suitable means.

1.11 Shop/Fabrication Drawings:

- A. Within 30 days after award of contract, the Contractor shall submit six (6) sets of manufacturer's data sheets, catalog cut sheets, shop drawings and data on devices for all necessary approvals prior to fabrication of materials.
- B. No extension of the contract time will be granted for the Contractor's failure to allow sufficient time for review and processing, or for shop drawings which have been returned due to improper submission.
- C. The Contractor will not be authorized to start any portion of the work until the catalog cuts and other required submittals for that portion are recieved, reviewed and approved by all required parties.

1.12 Operation and Maintenance Manual:

- A. The Contractor shall provide the Owner with a looseleaf manual containing;
- A detailed description of the system.
- 2. A detailed description of routine maintenance required or recommended or as would be provided under a maintenance schedule and detailed maintenance instructions for each type of device installed.
- 3. A list of recommended spare parts.
- 4. Service Directory.
- 5. 11 inch by 17-inch reduced copies of the "record" drawings.

1.13 Record Drawings:

- A. The Contractor shall maintain on the site an accurate record of all changes made to the system layout from that shown on the approved drawings
- B. Upon completion of the work, before final approval, one (1) set of reproducible mylar record" drawings shall be delivered to the Owner. Contractor shall coordinate this with
- C. At least one set of approved drawings with all required stamps of approval shall be maintained on—site and made available to City Inspectors on demand during construction

1.14 Changes:

- A. Make no changes in installation from layout as shown on the approved drawings unless change is specifically approved by the Engineer. This does not include minor revisions for the purpose of coordination, or to clear ducts or obstructions.
- B. Any changes made other than stated above are at the Contractors own expense and

responsibility. 1.15 Leak Damage:

A. The Contractor shall be responsible during the installation and testing period of the sprinkler system for any damage to the work by others, to the building, its contents, etc. caused by leaks in any equipment, by unplugged or disconnected pipes, fittings, etc., or by overflow, and shall pay for the necessary replacement or repairs to work of others, damaged by such leaks.

1.16 Freight and Hauling:

A. Deliver materials to the job site, unload, and store in location determined by the Owner's Representative and General Contractor.

- 3. The Contractor shall indicate the number of sprinklers included in base bid, including the number of sprinklers allowed for obstructions and ductwork.

A. The base bid shall be lump-sum or in accordance with Division I of specifications.

1.18 Cleanup:

A. Maintain the premises free from accumulation of waste material or rubbish caused by this

1.19 Safety: A. All work shall be performed in compliance with the Occupational Safety and Health Act

of 1970 and Construction Safety Acts Standards (or current). 1.20 Guarantee Period:

A. The Contractor shall guarantee in writing (triplicate) all materials and workmanship for a period of one year beginning with the date of substantial completion. The contractor shall be responsible during the design, installation, testing and guarantee period for any damage caused by him/her (or his/her Subcontractors) or by defects in his/her (or his/her Subcontractor's) work, materials, or equipment.

1.21 Emergency Service:

A. During the warranty period, the Contractor shall provide emergency repair service for the entire automatic sprinkler system. This service shall be provided on a 24-hour per day, 7 day per week basis. Coordinate details with Owner's representative.

1.22 Spare Parts and Special Tools:

A. Contractor shall install code approved metal sprinkler cabinet containing six (6) sprinklers and two (2) sets sprinkler wrenches compatible with each type of sprinkler

1.23 Final Approval and Acceptance:

- A. Final approval and acceptance of the work will not be given by the Owner until:
- 1. The completed sprinkler system has been inspected, tested and approved by the Owner, Architect, and all other authorities having jurisdiction.
- 2. Required submittals, system operation and maintenance manuals. "record" drawings, spare parts, and special tools have been provided to, reviewed, and accepted by the Owner.

PART 2 PRODUCTS

2.1 Sprinkler System Components — General:

A. All equipment and system components furnished and installed shall be new and unused, or first quality, similar in manufacturer and be listed by Underwriters Laboratories Inc. and approved by Factory Mutual for their intended use. All such equipment and system components shall be installed within the limitations of the respective UL listings or FM approvals.

2.2 Piping:

- A. Manufacturers: Allied Tube and Conduit (Grinnell)
- Western Tube and Conduit Corp.
- B. Sprinkler system piping or tubing shall meet the requirements of NFPA 13, be U.L. listed and F.M. approved. Contractor shall base his bid on the use of any one or a combination of the following:

- C. Pipe meeting ASTM A-795 and/or A-135 requirements for above grade use. All pipe shall have a minimum Corrosion Resistance Ratio (CRR) of 1.00 or greater, as per U.L listings. All piping shall be black carbon steel.
- D. Underground pipe and fittings (to 5'-0" beyond building): Class 150 centrifugal cast iron enameling, or cement lined mechanical joint, "Tyton" joint, conforming to USAS A-21.6 (AWWA Specification C-106); or "Permastran" conforming to ASTM D 2992 and ASTM D 2996. Class 50 ductile iron pipe. Block underground piping, fittings and thrust blocks per N.F.P.A. - 24.
- E. Flanges and flanged fittings shall be 175 psi cast iron with standard ring gaskets.
- F. Pipe and fittings shall be listed by Underwriters Laboratories, Inc. and approved by Factory Mutual for use in fire protection system(s) and designed to withstand a working pressure of not less than 175 psi. Where site pressures are not regulated/reduced & they exceed 250 psi, the F.P. contractor shall provide sprinklers & fittings suitable for such high pressures.
- G. Flexible couplings shall be U.L. and F.M. approved.
- H. Pipe penetrations through masonry and fire rated construction shall be sleeved and sealed with seals commensurate with the building construction.
- I. Pipe penetrations through floors and exterior walls shall be approved waterproof seals.
- . When system piping pierces a foundation wall below grade or is located under the foundation wall, clearance shall be provided to prevent breakage of piping due to building settlement. Do not locate pipe joints within or under a foundation wall and a 1-3 inch clearance shall be provided around piping by use of sleeve for piping piercing a foundation wall. Sleeve properly and fill clear space with approved waterproof
- K. Use of foreign—made piping or fittings shall not be permitted.
- L. Use of copper piping and fittings in accordance with NFPA-13 is permissible.

- A. Except for miscellaneous small valves, all valves shall be plainly marked with the name or registered trademark of the manufacturer, size of the valve, and UI or FM identification mark. All valves shall be suitable for 175 psi working water pressure.
- B. All water supply control valves shall be an indicating type and shall be furnished with a valve supervisory device.
- C. All valves shall be located within six (6) feet of the floor.
- 2.4 Automatic Sprinklers:
- A. Sprinklers shall be of the listed automatic, glass bulb type, and shall be distributed
- B. Sprinklers required due to ceiling projections/obstructions and ductwork are not considered additional sprinklers. Contractor shall be responsible for identifying these

throughout the building per code and approved construction documents.

2.5 Hose Threads:

- A. Hose threads for hydrants and fire department Siamese connections shall match those of
- the local Fire Department. 2.6 Fire Department Connection:
- A. Fire department connection shall be provided in accordance with requirements of all authorities having jurisdiction. Provide with check valve. Approved automatic drip shall be required only where FDC is not remotely located.

2.7 Supervisory and Alarm Equipment:

- A. Paddle-type waterflow indicators with adjustable pneumatic retard chamber (0-90 seconds) shall be provided to indicate waterflow for the new sprinkler system.
- B. Valve supervisory switches shall be provided for all new valves controlling the water supply to the sprinkler system.
- C. All electrical wiring of alarm and supervisory devices into the detection and fire alarm system shall be done under separate contract.
- 2.8 Inspector's Test Connections:
- A. Provide test connection at most remote portion of the A.S. system, with 1" pipe and valve. Test connection piping shall be connected to sprinkler branch line at least 1-1/4" in diameter and shall discharge outside building through smooth bore brass outlet.

2.9 Hangers:

- A. Use beam clamps or hang from top chord of joists. Do not hang from bottom chord of
- B. Trapeze hang all mains where possible. Verify all hanger types with Structural Drawings and Engineer prior to commencement of any work.
- C. Provide earthquake bracing. Install in accordance with NFPA-13 and all authorities havina jurisdiction. Pipe to be generally supported by clamps and rods and secured to overhead

A. The schedule for installation of the sprinkler systems will be established at the pre-bid meeting. Coordinate schedule closely with Owner/Architect.

PART 3 EXECUTION

3.1 Starting and Completion Dates:

3.2 Inspection: A. The Contractor shall daily examine all areas in which the work will be performed. The Contractor shall immediately report unsatisfactory working conditions to the Owner or

his/her Agent for resolution. The contractor shall not proceed with the work until all

unsatisfactory working conditions have been corrected. B. Owner, Architect, and all authorities having jurisdiction shall be allowed to conduct inspections and tests as they choose. Approved sprinkler plans must be available on the

project site during installation and inspection of the work. 3.3 Installation General:

subject to his approval.

- A. All holes made by the Contractor in any wall, ceiling or floor shall be patched by the Contractor, restoring the wall, ceiling or floor to its original condition, fire resistance
- B. Removal and repair of all finished surfaces shall be coordinated with the Architect and
- C. Location of all equipment, controls, piping, valves and drain shall be subject to Architect/Owner approval.
- D. Standard metal signs shall be provided in accordance with NFPA-13.
- E. All sprinklers and equipment shall be installed in accordance with manufacturer's instructions. All special tools recommended by the manufacturer shall be used.
- 3.4 Installation Piping and Sprinklers:
- A. Where sprinkler piping is installed in finished areas, the Contractor shall install all new piping so that it is concealed above finished ceilings, provide a minimum separation of 12" between the ceiling height and the bottom of the sprinkler pipe. Pipe installed in
- unfinished areas may be exposed. B. All exposed pipe which passes through a wall, ceiling, or floor shall be provided with chrome escutcheon plates.
- C. All piping shall be installed so as not to obstruct any portion of a window, doorway, stairway or passageway, and shall not interfere with the operation or accessibility of any mechanical, plumbing or electrical equipment. Run piping horizontally and at right angles to walls and ceilings or along slope of ceilings.

- D. All sprinkler piping, drain and test piping, etc. installed through exterior walls shall be galvanized and have a 4'-0" minimum length to first valve located inside insulated building envelope.
- E. All sprinkler piping must be substantially supported from building structure and only approved type hangers shall be used. Sprinkler lines under ducts shall not be supported from ductwork, but shall be supported from building structure with trapeze hangers where necessary, in accordance with NFPA-13. Tapping or drilling of structural elements is not permitted. Use beam clamps or hang from top chord of joist. Do not hang from bottom chord of joist.
- F. Pendent sprinklers shall be in alignment with, and parallel to ceiling fixtures, walls, etc.
- G. Sprinklers shall be installed per the requirements of NFPA 13 with regard to ducts, obstructions, steel beams and joists, partitions, and ceiling projections. Provide
- additional sprinklers as required. H. Contractor shall provide complete sprinkler protection before combustible contents are
- I. All sprinkler piping and fittings shall be so installed such that system may be drained. System shall primarily be designed to drain through main drain at riser(s).
- J. Minimum and maximum deflector distances shall be per NFPA requirements and
- K. A minimum distance between sprinklers of 6'-0" or as required by sprinklers U.L. listing, shall be provided to avoid cold soldering of sprinklers.
- 3.5 System Drains:

moved into the building.

- A. Provide 2" main drain valves at system control valves and extend piping to outside building. Provide a 4'-0" minimum length of main drain piping from exterior wall penetration to anale valve.
- B. Pipe all drains to a location where water drained will not damage stock, equipment, vehicles, planted areas, etc., injure personnel, or patrons, or cause an unsightly wet area in front of any entrances.
- 3.6 Sleeves:
- A. Set sleeves securely in place for all pipes passing through floor and masonry wall
- B. Space between sleeve and pipe shall be filled with packing commensurate with construction. Provide chrome wall plates at each side of wall.
- C. Sleeves and seals through floors and exterior wall shall be watertight.
- D. All sleeves shall meet requirements of all authorities having jurisdiction.

3.7 Fire Department Connection:

- A. Install fire department connection properly connected to piping. Provide with check valve. Where located inside building; distance from check valve to wall mounted F.D.C. shall be 4'-0" minimum, and automatic drip connection shall be provided.
- B. Where remotely located F.D.C. shall be provided with check valve. Concrete pad shall also be provided and concrete thrust block installed.
- C. Provide standard name plate marked "automatic sprinklers"
- 3.8 Alarm Valves: A. Install alarm check valve(s), complete with trim including paddle type waterflow indicator connected to fire alarm system where shown on plans.
- 3.9 Inspector's Test
- A. Provide inspector's test connections as specified in NFPA-13. Discharge orifice shall have same size orifice as majority of sprinklers installed. B. Pipe all inspector's test connection discharges to atmosphere at location where water drain will not damage stock, equipment, vehicles, planted areas, etc., injure personnel,
- or patrons, or cause an unsightly wet area in front of any entrance. C. All pipe and fittings downstream of inspector's test valve shall be galvanized
- 3.10 Sprinkler Guards and Water Shields: A. Provide guards for sprinklers within 7 feet of finish floor or wherever sprinklers may be

subject to mechanical damage.

- 3.11 Welding and Flame Cutting:
- A. No welding or flame cutting by the Contractor shall be permitted on the premises.

B. Shop welding (off-site) shall meet all NFPA-13 and related requirements. Retrieve all

3.12 Final Inspection and Tests: A. Overhead sprinkler piping: Tested for a period of two hours at a hydrostatic pressure

of 200 lbs. and all piping, valves, sprinklers, etc., shall be watertight.

- B. Underground piping: Tested for a period of two hours at a hydrostatic pressure of 200 lbs. in accordance with NFPA Standards. Leakage shall not exceed augnitities indicated.
- C. Replace piping system components which do not pass the test procedures specified, and retest repaired portion(s) of the system. D. All underground piping shall be thoroughly flushed in accordance with the requirements of NFPA Standards, prior to connection to overhead piping system. The flush test must
- in which pipe is laid is backfilled. E. The Contractor shall make arrangements with all authorities have jurisdiction for final
- inspection and witnessing of the final acceptance tests. F. If, when the Owner's consultant or any other authorities having jurisdiction visit the job site for this purpose after being advised by the Contractor that the work is completed and ready for test, the work has not been completed, or the final acceptance tests are unsatisfactory, the Contractor shall be responsible for Consultant's extra time and expenses for reinspection and witnessing the retesting of the work. Such extra fees shall be deducted from payments by the Owner to the Contractor.

G. Contractor shall provide at least (5) working days notice to Architect and Owner for all

H. Flushing of all piping shall be conducted with water flowing at a minimum velocity of

be witnessed by all authorities having jurisdiction. A test shall be made before the trench

END OF SECTION



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T 602 251 3800

sma project name **POWDERCAT**

16-101

sma project no.

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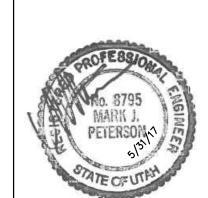
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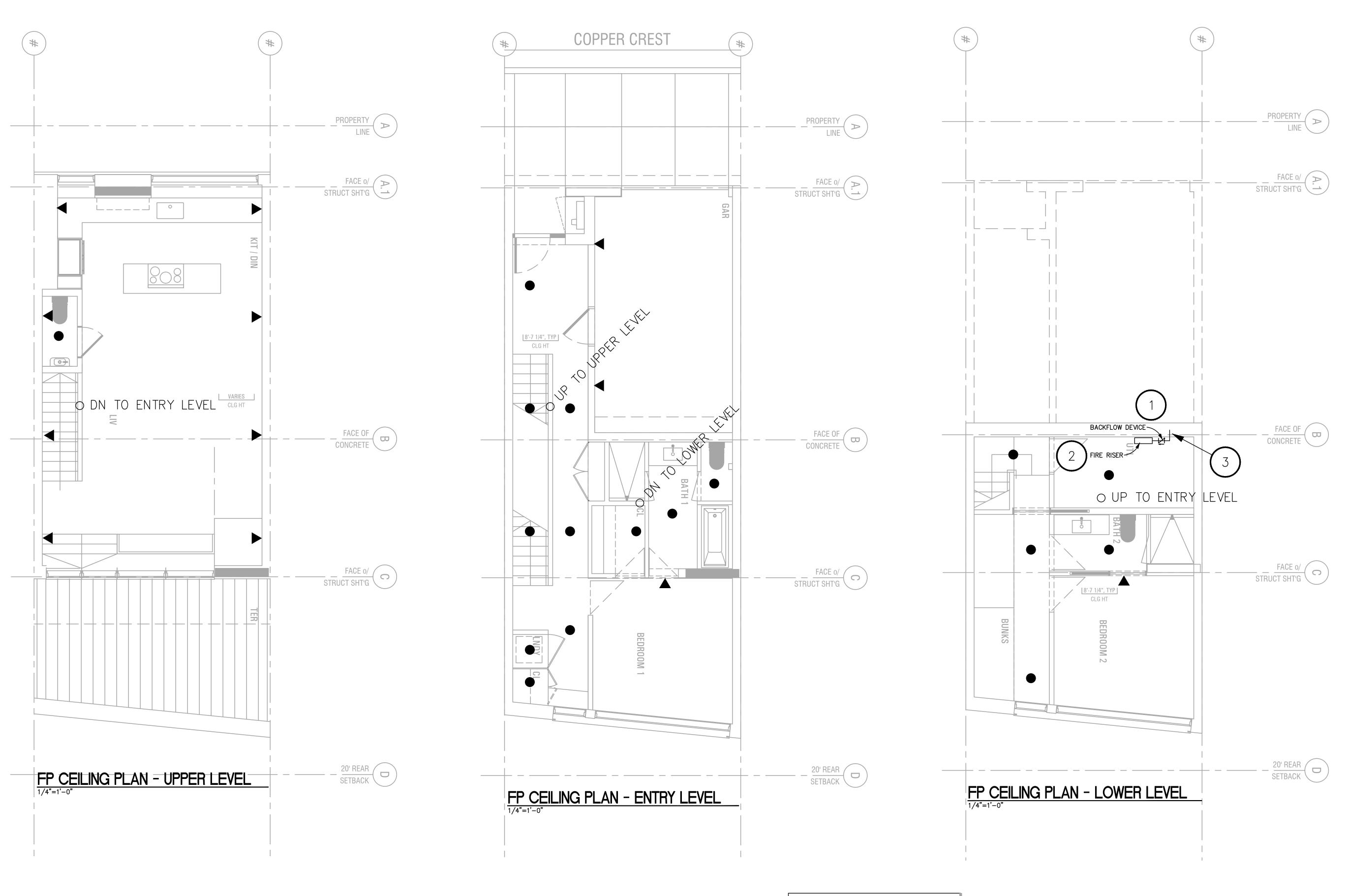
EXPIRES 03/31/19

SPECIFICATIONS

2017.06.01

phase / rev

scale



HAZARD / DENSITY RESIDENTIAL HAZARD @ 0.05 GPM/SQ. FT. MIN.

KEYNOTES .

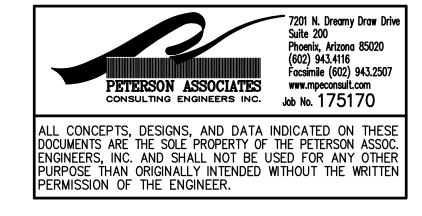
FIRE SPRINKLER BACKFLOW DEVICE.
 FIRE RISER W/ CONTROL VALVE.
 UNIT WATER SUPPLY.

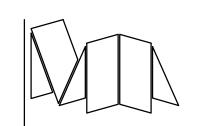
LEGEND

■ CONCEALED RESIDENTIAL PENDENT SPRINKLER

■ CONCEALED RESIDENTIAL SIDEWALL SPRINKLER

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sma project no. 16-101

sma project name **POWDERCAT**

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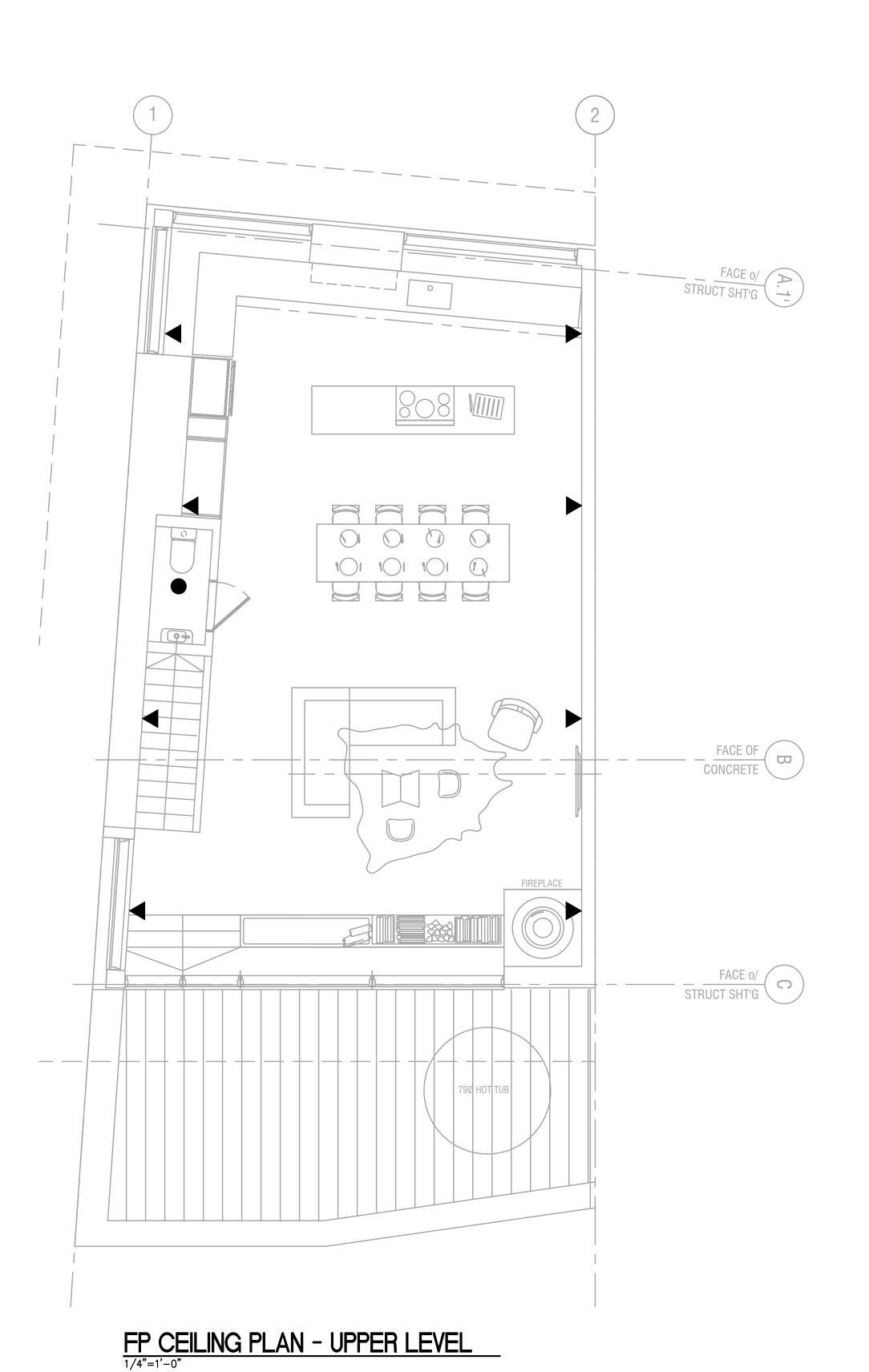
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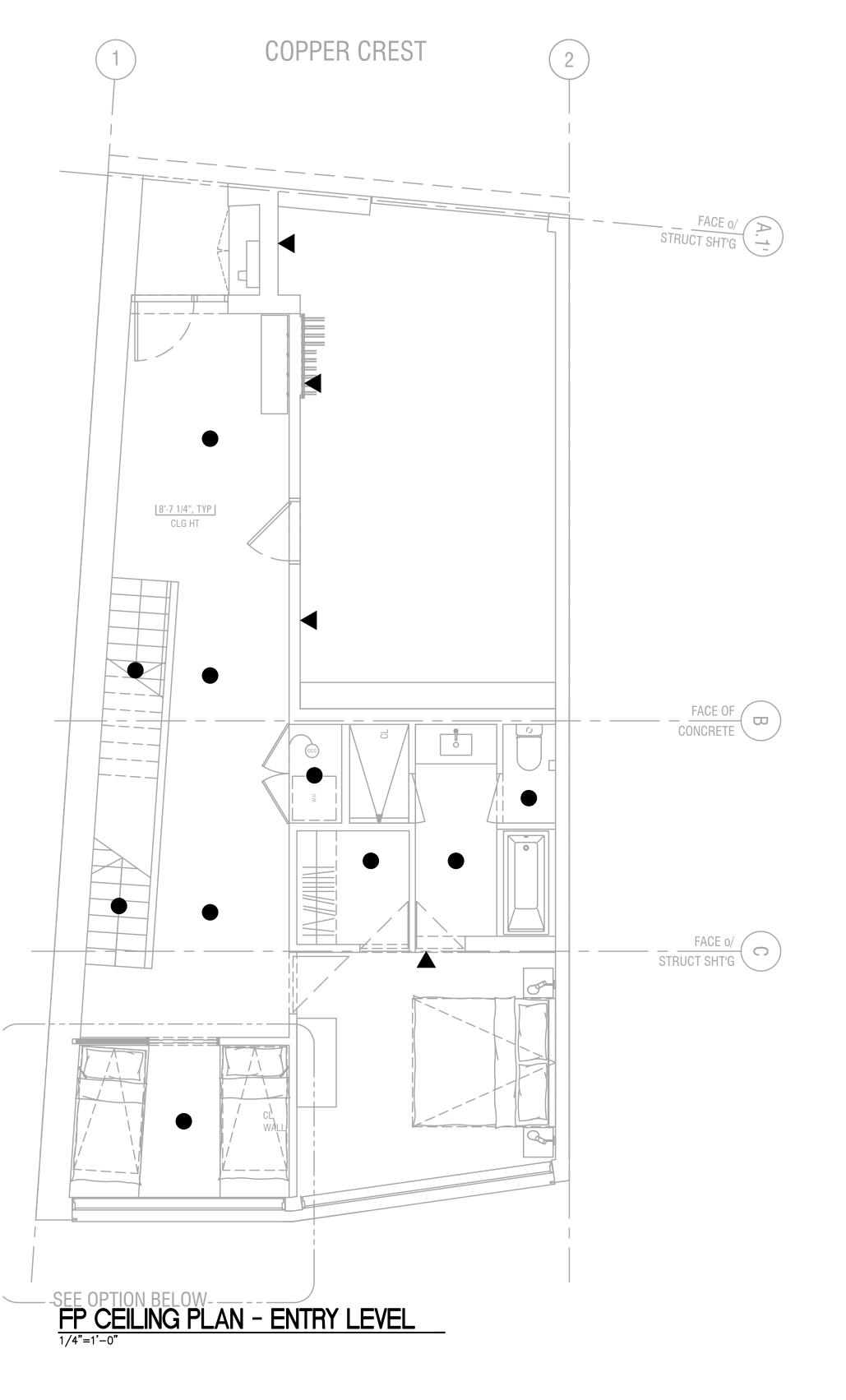
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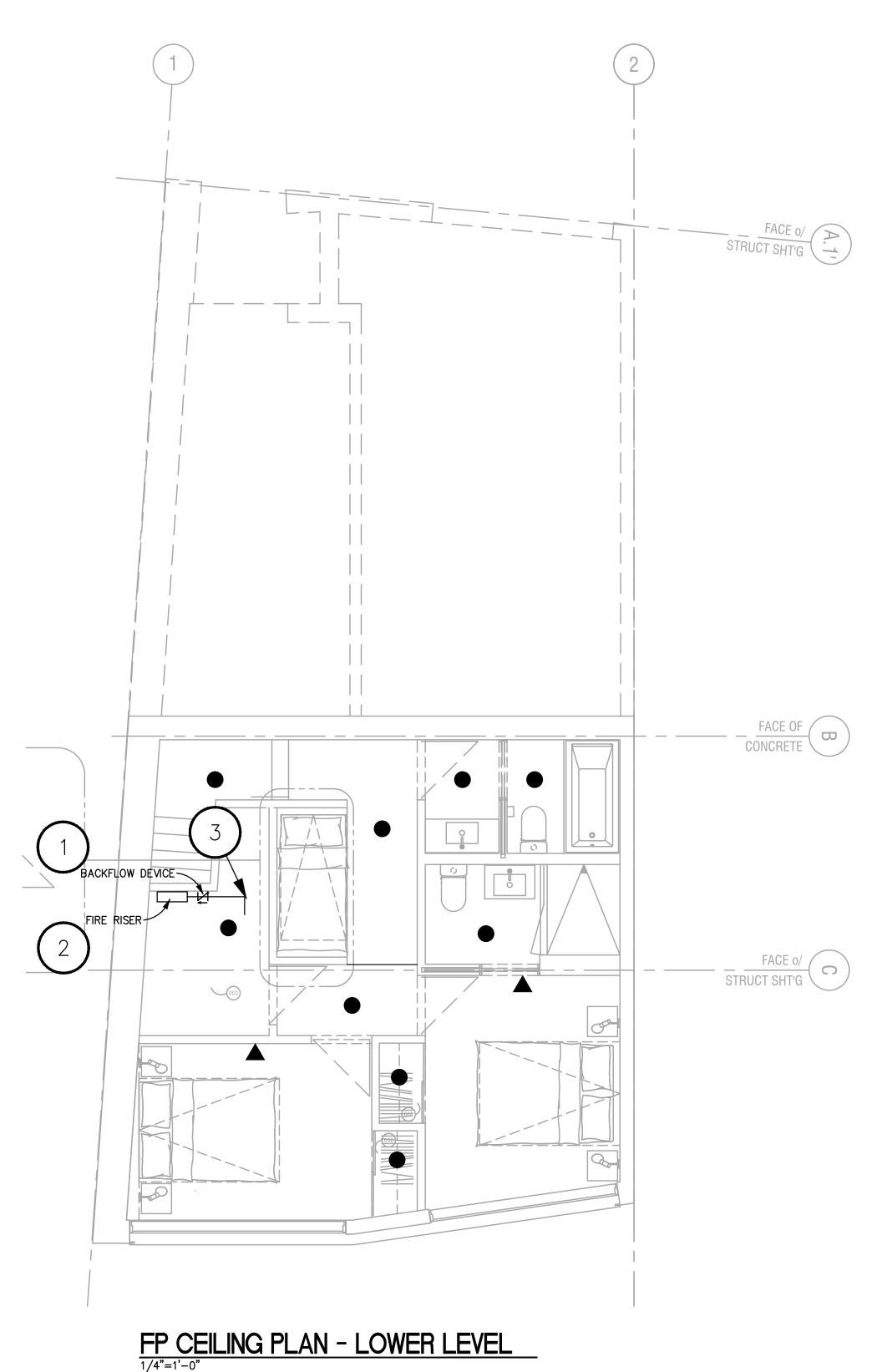
FP2.0 TYPICAL UNIT REFLECTED CEILING

1/4 = 1'-0" scale

phase / rev **2017.06.01** date







HAZARD / DENSITY
RESIDENTIAL HAZARD @ 0.05 GPM/SQ. FT. MIN.

KEYNOTES .

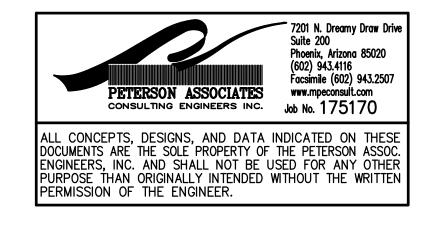
FIRE SPRINKLER BACKFLOW DEVICE.
 FIRE RISER W/ CONTROL VALVE.
 UNIT WATER SUPPLY.

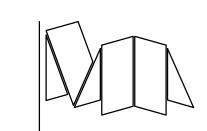
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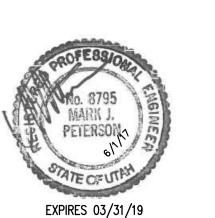
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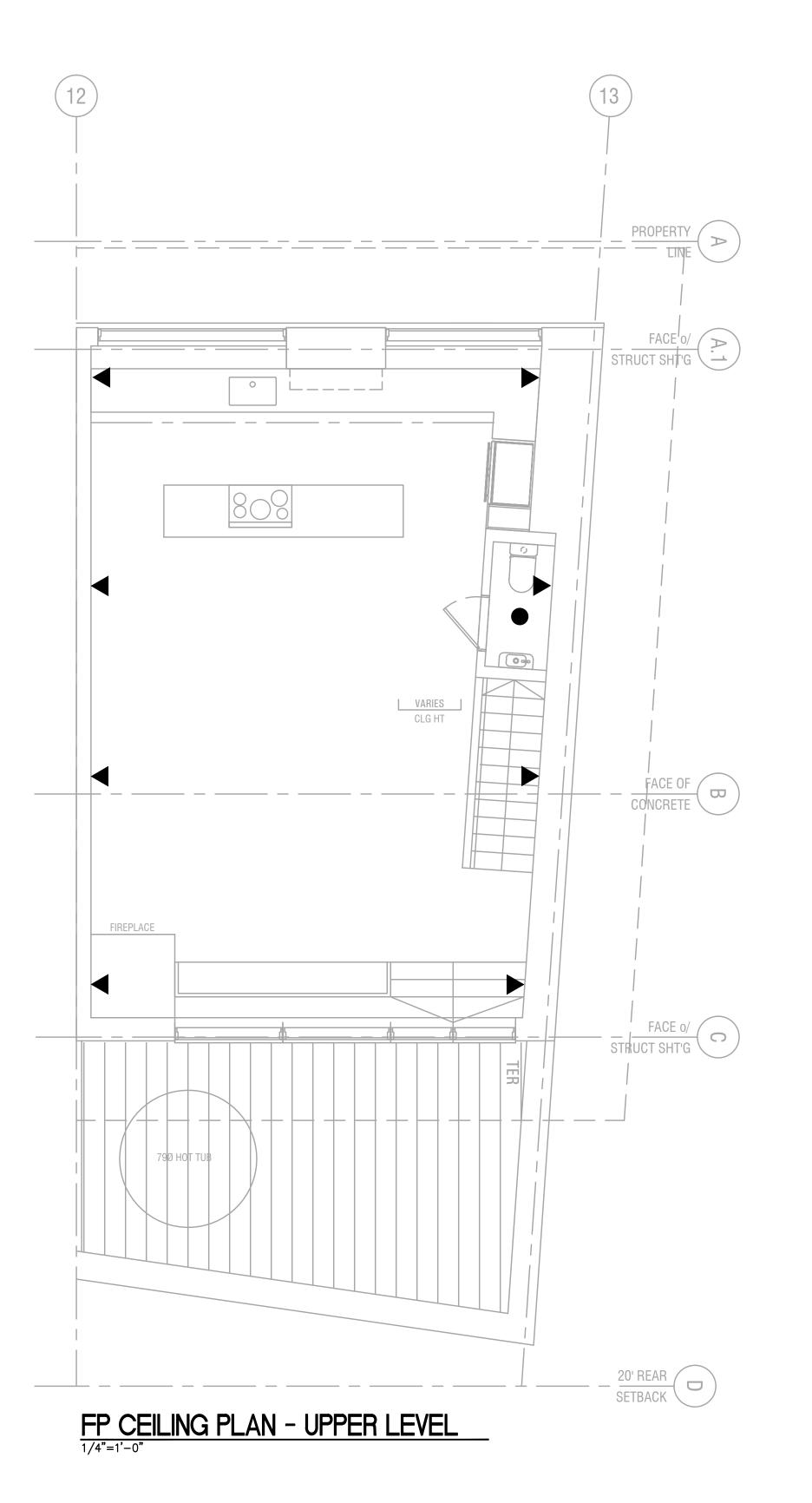


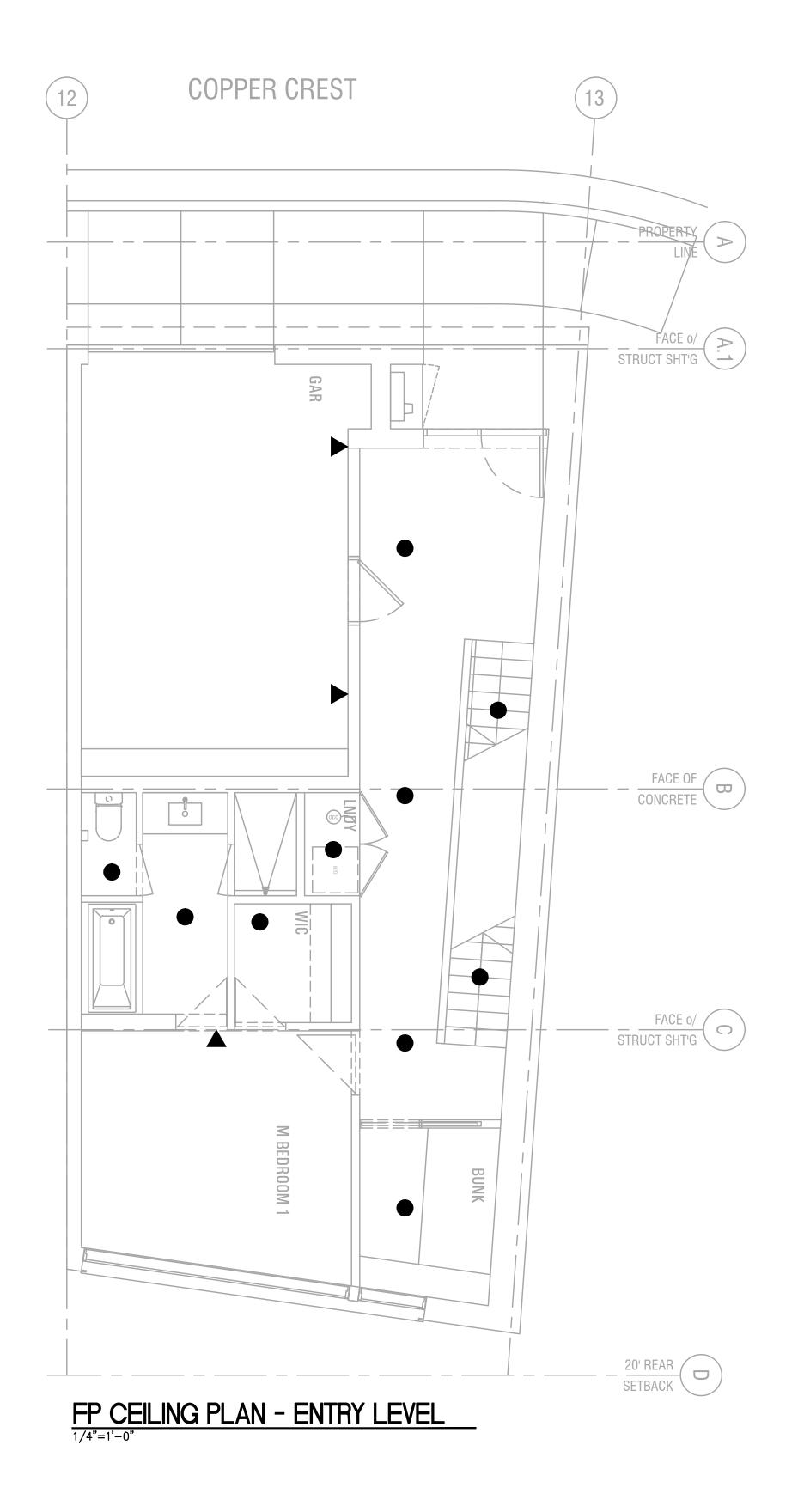


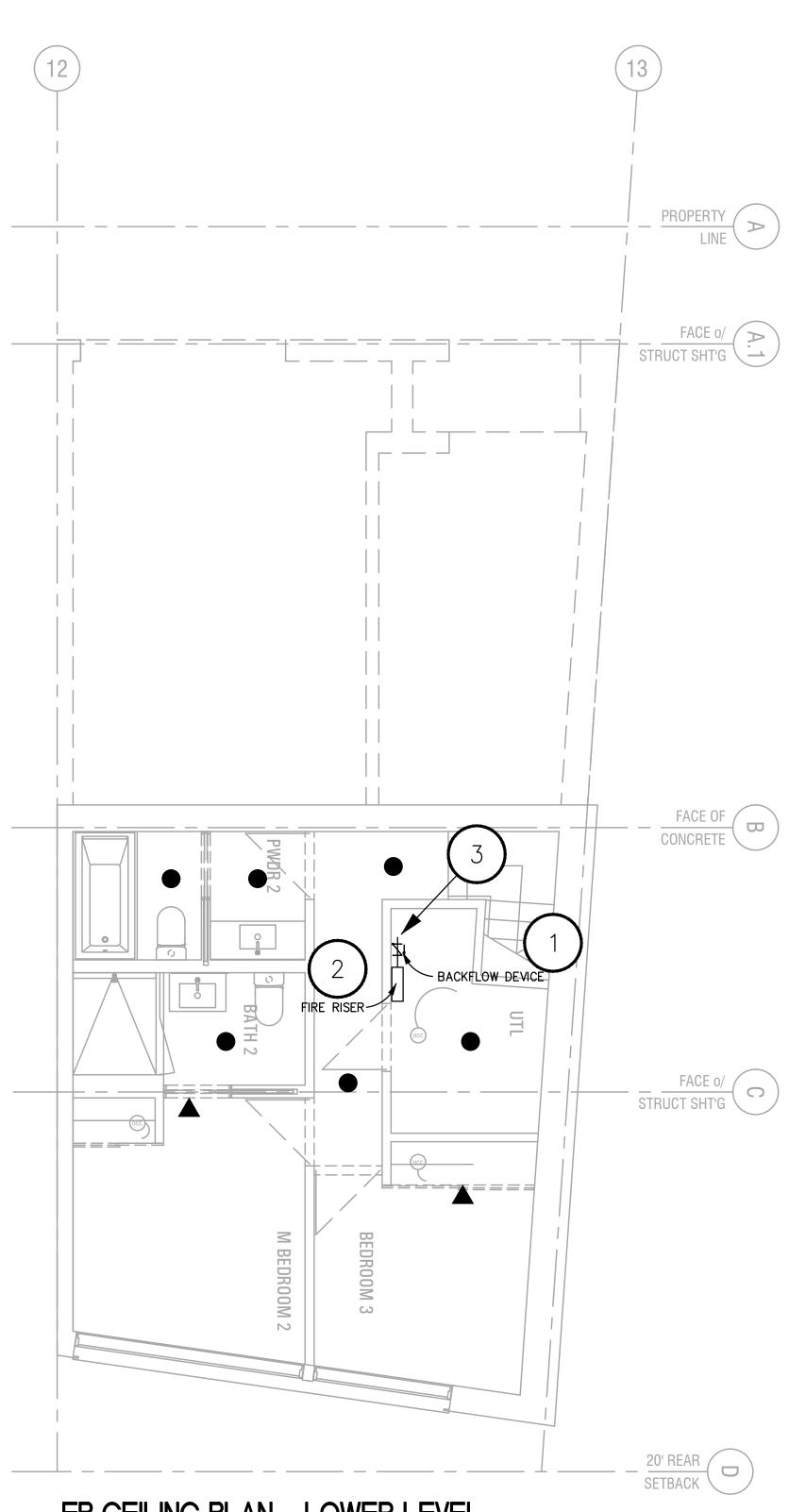
FP2.1
UNIT 124
REFLECTED CEILING
PLAN

1/4 = 1'-0" scale

PERMIT phase / rev 2017.06.01 date







FP CEILING PLAN - LOWER LEVEL

HAZARD / DENSITY
RESIDENTIAL HAZARD @ 0.05 GPM/SQ. FT. MIN.

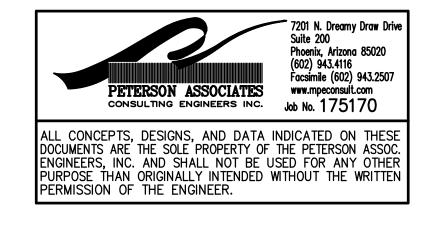
KEYNOTES .

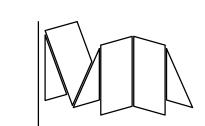
- FIRE SPRINKLER BACKFLOW DEVICE.
 FIRE RISER W/ CONTROL VALVE.
 UNIT WATER SUPPLY.
- LEGEND

 ◆ CONCEALED RESIDENTIAL PENDENT SPRINKLER

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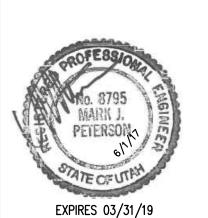
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PLAN REVIEW ACCEPTANCE

FOR COMPLIANCE WITH THE APPLICABLE CONSTRUCTION CODES IDENTIFIED BELOW.

BUILDING STRUCTURAL PLUMBING LECTRICAL ENERGY

ACCESSIBILITY FIRE

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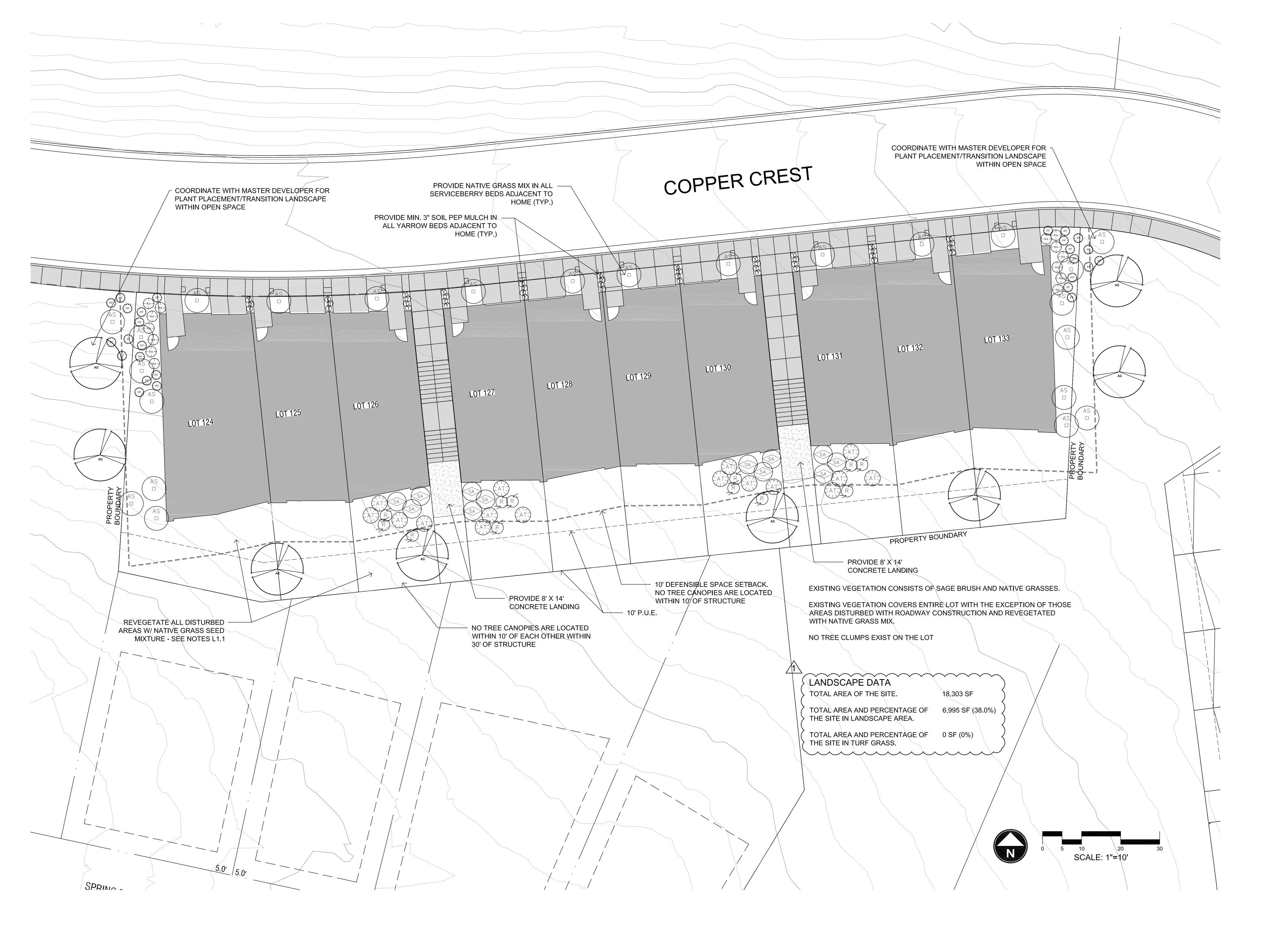
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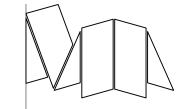
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FP2.2
UNIT 133
REFLECTED CEILING
PLAN

1/4 = 1'-0" scale

PERMIT phase / rev
2017.06.01 date





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LANDSCAPE PLAN

AS NOTED scale

PERMIT SET phase / rev
2017.06.03

GENERAL LANDSCAPE NOTES

- 1. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL EXISTING AND PROPOSED UTILITIES, AND ALL SITE CONDITIONS PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE PROJECT MANAGER AND ALL OTHER CONTRACTORS WORKING ON THE SITE.
- 2. THE FINISH GRADE OF ALL PLANTING AREAS SHALL BE SMOOTH, EVEN AND CONSISTENT, FREE OF ANY HUMPS, DEPRESSIONS OR OTHER GRADING IRREGULARITIES. THE FINISH GRADE OF ALL LANDSCAPE AREAS SHALL BE GRADED CONSISTENTLY 3/4" BELOW THE TOP OF ALL SURROUNDING WALKS, CURBS, ETC.
- 3. THE CONTRACTOR SHALL FLAG THE LOCATION OF ALL PLANTS FOR APPROVAL PRIOR TO PLANTING.
- 4. THE PLANT MATERIALS LIST IS PROVIDED AS AN INDICATION OF THE SPECIFIC REQUIREMENTS OF THE PLANTS SPECIFIED, WHEREVER IN CONFLICT WITH THE PLANTING PLAN, THE PLANTING PLAN SHALL
- 5. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED FOR THE PROPER COMPLETION OF ALL LANDSCAPE WORK AS SPECIFIED AND SHOWN ON THE DRAWINGS.
- 6. ALL PLANT MATERIALS SHALL BE APPROVED PRIOR TO PLANTING. THE OWNER/LANDSCAPE ARCHITECT HAS THE RIGHT TO REJECT ANY AND ALL PLANT MATERIAL NOT CONFORMING TO THE SPECIFICATIONS. THE OWNER/LANDSCAPE ARCHITECTS DECISION WILL BE FINAL.
- 7. THE CONTRACTOR SHALL KEEP THE PREMISES, STORAGE AREAS AND PAVING AREAS NEAT AND ORDERLY AT ALL TIMES. REMOVE TRASH, SWEEP, CLEAN, HOSE, ETC. DAILY.
- 8. THE CONTRACTOR SHALL PLANT ALL PLANTS PER THE PLANTING DETAILS, STAKE/GUY AS SHOWN. TOP OF ROOT BALLS SHALL BE PLANTED FLUSH WITH FINISH GRADE
- 9. THE CONTRACTOR SHALL NOT IMPEDE DRAINAGE IN ANY WAY. THE CONTRACTOR SHALL ALWAYS MAINTAIN POSITIVE DRAINAGE AWAY FROM THE BUILDING, WALLS, ETC.
- 10. THE CONTRACTOR SHALL MAINTAIN ALL WORK UNTIL ALL WORK IS COMPLETE AND ACCEPTED BY THE OWNER. UPON COMPLETION OF LANDSCAPE WORK AN INSPECTION FOR ACCEPTANCE OF THE WORK SHALL BE HELD. THE CONTRACTOR SHALL NOTIFY THE OWNER/LANDSCAPE ARCHITECT FOR SCHEDULING OF INSPECTION AT LEAST SEVEN (7) DAYS IN ADVANCE.
- 11. THE CONTRACTOR SHALL MAINTAIN AND GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER. REPLACEMENT PLANTS SHALL BE GUARANTEED FOR AN ADDITIONAL 90 DAYS. MAINTENANCE SHALL INCLUDE MOWING, WEEDING, FERTILIZING, CLEANING, INSECTICIDES, HERBICIDES, ETC.
- 12. ALL DISTURBED AREAS ARE TO BE SEEDED WITH STANDARD SEED MIXTURE.

STANDARD SEED MIX

<u>SPECIES</u>	PLANTING RATE (PLS#'S/ACRE)	
LOLIUM PERENNE	PERENNIAL RYEGRASS	8.75
ELYMUS TRACHYCAULUS	SLENDER WHEATGRASS	7.00
PSEUDOROEGNERIA SPICATA V. SECAR	BLUEBUNCH WHEATGRASS	5.25
PASCOPYRUN SMITHII	WESTERN WHEATGRASS	5.25
FESTUCA OVINA	SHEEP FESCUE	3.50
LINUM LEWISII	BLUE FLAX	1.00
A. TRIDENTATA SP. WYOMINGENSIS	SAGEBRUSH	1.25
TOTAL		32.00

GROUND PLANE IRRIGATION NOTES:

1. ALL PLANT MATERIALS SHOWN ON THE DRAWING SHALL BE SERVICED BY AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. ALL SHRUB BED AREAS, INCLUDING TREES SHALL BE IRRIGATED WITH A LOW PRESSURE DRIP IRRIGATION SYSTEM. ALL NATIVE GRASS AREAS SHALL BE IRRIGATED WITH A BROADCAST IRRIGATION SYSTEM.

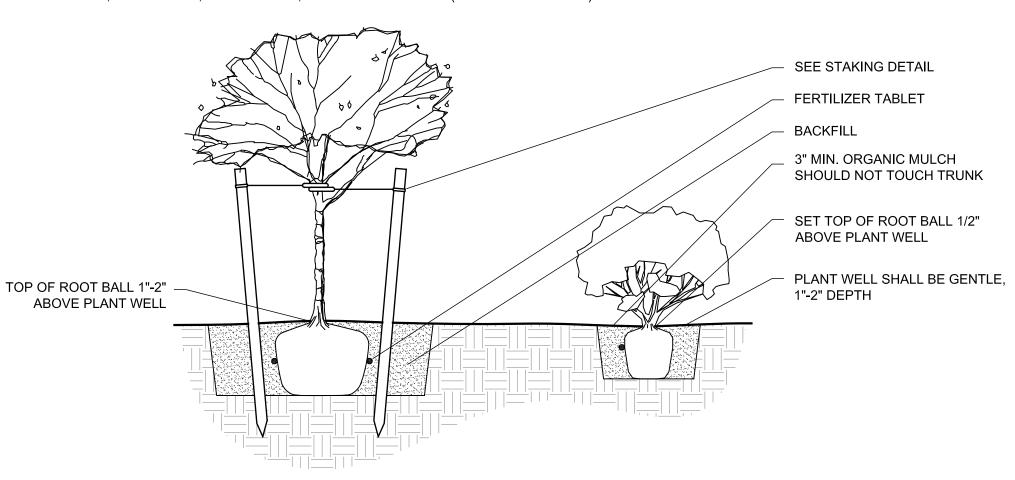
- 2. THE CONTRACTOR IS TO HAVE A QUALIFIED IRRIGATION SYSTEM SPECIALIST PREPARE A DESIGN FOR AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM AND SUBMIT DRAWINGS TO THE ENGINEER FOR APPROVAL AT LEAST 30 DAYS PRIOR TO THE SYSTEM INSTALLATION.
- 3. UNDERGROUND IRRIGATION SYSTEM DRAWINGS SHALL BE PREPARED ON 24"X 36" SHEETS, NEATLY DRAWN AND VERY LEGIBLE. DRAWINGS ARE TO INCLUDE HEAD SPACING, TYPES OF HEADS, PIPING WITH SIZES, VALVES, FITTINGS AND ALL OTHER ITEMS REQUIRED FOR PROPER INSTALLATION OF THE SYSTEM.
- 4. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL IRRIGATION SLEEVES PRIOR TO PLACEMENT OF HARD IMPROVEMENTS. COORDINATE WITH THE GENERAL CONTRACTOR.
- 5. THE UTILITY CONTRACTOR IS TO PROVIDE AN IRRIGATION SYSTEM CONNECTION TO EITHER THE CULINARY OR SECONDARY WATER LINE WITH A BACK FLOW PREVENTION DEVICE, AS APPLICABLE, WITHIN STATE AND LOCAL JURISDICTIONAL CODES. THE IRRIGATION CONTRACTOR IS RESPONSIBLE TO COORDINATE THIS ITEM WITH THE UTILITY CONTRACTOR. IF SECONDARY WATER IS USED, THE SYSTEM SHALL BE FILTERED WITH A CLEANABLE FILTER SYSTEM.
- 6. THE IRRIGATION CONTROL BOX SHALL BE LOCATED AT THE DIRECTION OF THE PROJECT MANAGER/OWNER OR ARCHITECT.

ONE PART MULCH TO THREE PARTS NATIVE SOIL.

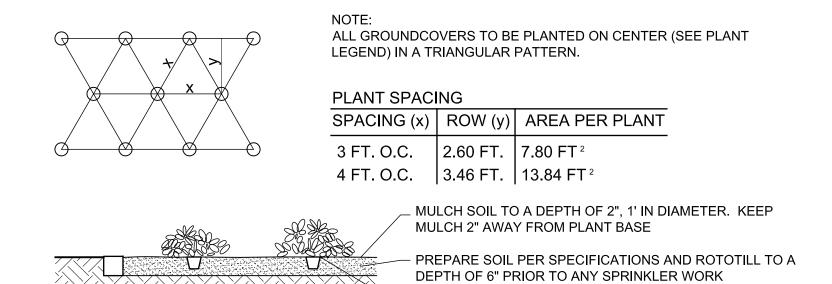
PLANTING PIT SIZES: 1 GAL. OR 5 GAL. - 2X WIDTH OF ROOT BALL, DEPTH = ROOT BALL + 6"

15 GAL. OR LARGER - 3X WIDTH OF ROOT BALL, DEPTH = ROOT BALL + 12" FERTILIZER TABLETS (21 GRAM AGRIFORM TABLETS)

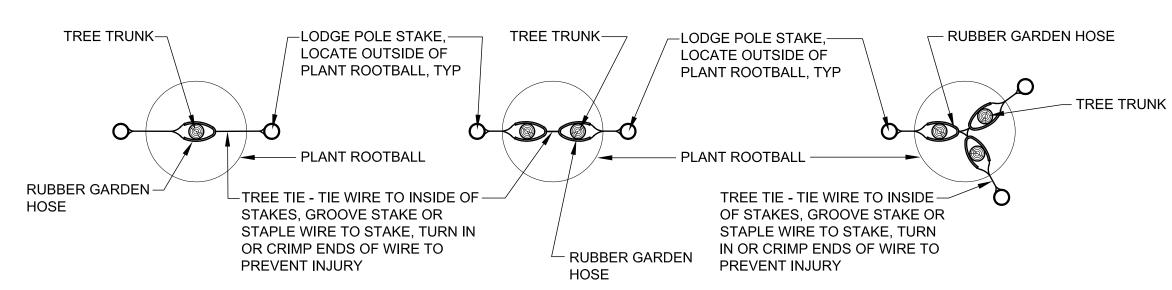
1 PER 1 GAL., 3 PER 5 GAL., 5 PER 15 GAL., 1 PER 3" OF BOX SIZE (24" BOX OR LARGER)



REE AND SHRUB PLANTING DETAIL



PERENNIAL/GROUNDCOVER PLANTING DETAIL



BACKFILL WITH NATIVE SOIL. APPLY FERTILIZER TO

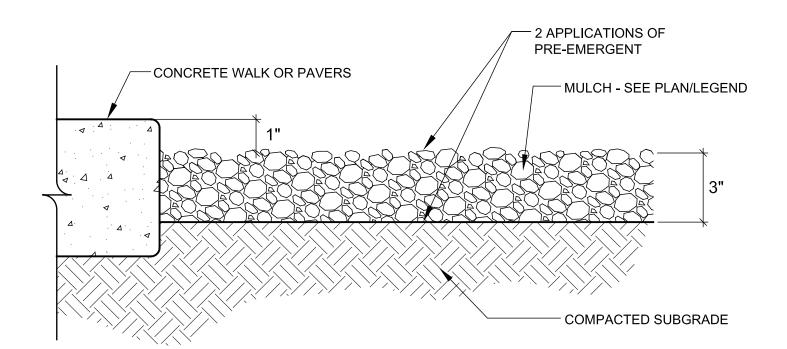
SURFACE AWAY FROM TRUNK PER SPECIFICATIONS

TREE STAKING PLAN - STANDARD

TREE STAKING PLAN - MULTIPLE

TREE STAKING PLAN - MULTIPLE





1. SUBMIT MATERIAL TO LANDSCAPE ARCHITECT FOR APPROVALS. 2. PRE-EMERGENT SHALL BE APPLIED TO FINISH GRADE BEFORE INSTALLATION OF MULCH. 3. FINAL APPLICATION OF PRE-EMERGENT SHALL BE APPLIED TO FINISH GRADE AFTER INSTALLATION OF COBBLE IS RAKED SMOOTH AND UNIFORM.



Plant Schedule

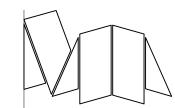
riant schedate				
QUANTITY	SYMBOL	BOTANICAL/COMMON NAME	INSTALLED SIZE	
		SHRUBS		
8	AG	Acer ginnala 'Flame' Amur Maple	8' CLUMP	
42	AS	Achillea filipendulina Yellow Yarrow	1 Gal.	
24		Amelanchier alnifolia Saskatoon Saskatoon Serviceberry	5 Gal.	
16	(AT)	Artemisia Tridentata Big Sagebrush	5 Gal.	
12	F	Chrysothamnus nauseosus Rubber Rabbitbrush	5 GAL.	
27	(CPF)	Potentilla fruiticosa 'Jackmanii' Jackman Potentilla	5 Gal.	
14	RA	Ribes alpinium Alpine Currant	5 Gal.	
12	SA	Symphoricarpos alba Snowberry	5 Gal.	
6,590 S.F.		Native Grass Mix (See Notes)	Seed	

SHRUB BED NOTE:

ALL SHRUB BEDS SHALL CONSIST OF NATIVE GRASS SEED MIXTURE UNLESS NOTED ON THE PLAN - SEE GENERAL LANDSCAPE NOTE 12.

DEFENSIBLE SPACE NOTE:

CANNOT HAVE TREES WITHIN 10 FEET OF ANY STRUCTURE. TREES SHALL BE PRUNED TO MAINTAIN A MINIMUM HORIZONTAL CLEARANCE OF 10 FEET FROM THE STRUCTURE. TREES WITHIN THE DEFENSIBLE SPACE SHALL BE PRUNED TO REMOVE LIMBS AND FUEL LADDERS TO A HEIGHT OF 6 FEET ABOVE THE GROUND SURFACE ADJACENT TO THE TREES.



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AS NOTED

2017.06.03