KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

23 EAST CENTER STREET
KAYSVILLE, UTAH 84037
CONFORMANCE SET
28 AUGUST 2019



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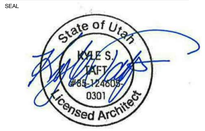
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ISSUE
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COVER SHEET

SHEET NUMBER
G000

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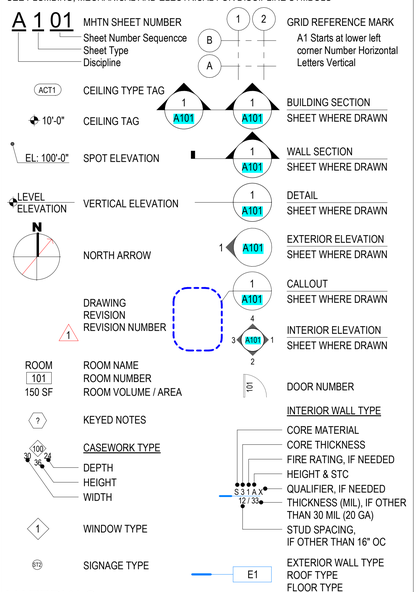
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ABBREVIATIONS

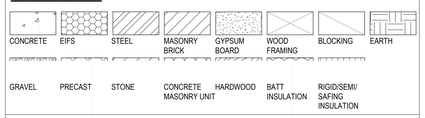
AC	AIR CONDITIONING
AFF	ABOVE FINISH FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
BD	BOARD
BLDG	BUILDING
BLKG	BLOCKING
BO	BOTTOM OF
BOT	BOTTOM
BRB	BUCKLING RESTRAINED BRACE
BRG	BEARING
CB	CATCH BASIN
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CIP	CAST-IN-PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT, CLEAR OPENING
COL	COLUMN
COMM	COMMUNICATION
CONC	CONCRETE
CONF	CONFERENCE
CONST	CONSTRUCT, CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CTR	CENTER
DB	DECK BEARING ELEVATION
DEMO	DEMOLITION
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DN	DOWN
DR	DOOR
DTL	DETAIL
DWG	DRAWING
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
EQ	EQUAL
EQUIP	EQUIPMENT
EWC	ELECTRICAL WATER COOLER
EXP	EXPANSION
EXT	EXTERIOR
FD	FLOOR DRAIN
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISH
FIN FLR	FINISH FLOOR
FLR	FLOOR
FT	FOOT, FEET
GA	GAUGE, GAGE
GI	GALVANIZED IRON
GLULAM	GLUED-LAMINATED TIMBER
GYP BD	GYPSUM BOARD
HVAC	HEATING, VENTILATION, AIR CONDITIONING
ID	INSIDE DIAMETER
INT	INTERIOR
ISO	ISOMETRIC
JAN	JANITOR
JT	JOINT
KD	KNOCK DOWN
LAB	LABORATORY
LAV	LAVATORY
MAINT	MAINTENANCE
MAX	MAXIMUM
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFOI	OWNER FURNISHED OWNER INSTALLED
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OH	OVERHEAD
OH DR	OVERHEAD DOOR
OPP	OPPOSITE
PERP	PERPENDICULAR
PL	PLATE, PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PR	PAIR
PREFAB	PREFABRICATED
QTY	QUANTITY
RD	ROOF DRAIN
RE:	REFER TO
REINF	REINFORCE, REINFORCING
REQD	REQUIRED
REF	REFRIGERATOR
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
RV	ROOF VENT
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
THK	THICK, THICKNESS
TO	TOP OF
TOB	TOP OF BEAM
TOD	TOP OF DECK
TOS	TOP OF SLAB, TOP OF STRUCTURE
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
W	WIDE FLANGE
WH	WATER HEATER
WWF	WELDED WIRE FABRIC
XFMR	TRANSFORMER

GENERAL SYMBOLS

SEE PLUMBING, MECHANICAL AND ELECTRICAL FOR DISCIPLINE SYMBOLS



MATERIALS



VICINITY MAP



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PROJECT DATA

CIVIL RIGHTS
ADA Standards for Accessible Design, 2010

APPLICABLE CODES
International Building Code, including Appendix J (IBC), 2015 ed.
International Mechanical Code (IMC), 2015 ed.
International Plumbing Code (IPC), 2015 ed.
National Electrical Code (NEC), 2014 ed.
ANSI/ASHRAE Standard 90.1-2013, Prescriptive
ICC/ANSI A117.1, 2009 ed.
International Existing Building Code (IEBC), 2015 ed., Prescriptive
International Fire Code (IFC), 2015 ed.
International Fuel Gas Code (IFGC), 2015 ed.

CRITERIA

Occupancy Classification	**B**, A-3, S-1, F-1
Separation of Occupancies	None required per IBC 508.4
Construction Type	V-B
Sprinkled	Yes
Building Height	
Allowable Height (Stories/Feet)	3/60
Actual Building Height (Stories/Feet)	1*/27
Building Area	
1st Floor	18,907
Mezzanine	0*
Total	18,907

*Mezzanines shall not contribute to either the Building Area or number of stories per IBC 505.2

Allowable Building Area Calculation
Building Perimeter (P) 777'
Building Perimeter on 20' min Public Way (F) 560'
Width of Public Way or Open Space (W)
Weighted Average W = (180'x20' + 97'x57' + 96'x55') / 560' = 25.73
Frontage Increase If = (560' / 777' – 0.25) 25.73 / 30 = .40

Mixed-Occupancy, One Story *(see 508.1)*
Use the applicable occupancies and calculate Aa for each occupancy
A Occupancy:
At = *18,000*
NS=4,555
Allowable Area Aa = 18,000 + (4,555 x .40) = 19,822

B Occupancy:
At = *27,000*
NS=11,594
Allowable Area Aa = 27,000 + (11,594 x .40) = 31,637

Allowable Area for non-separated occupancies:
Aa = 19,822 for A3 *(most restrictive area from the calculatons above)*

Fire-Resistance Ratings for Building Elements (IBC Table 601)

Construction Type:	V-B
Primary Structural Frame	0
Exterior Bearing Walls	0
Interior Bearing Walls	0
Exterior Non-Bearing Walls	0
Interior Non-Bearing Walls	0
Floor Construction & Associated Secondary Members	0
Roof Construction & Associates Secondary Members	0
Interior Exit Stairway (IBC Sec. 1023)	NA
Exit Access Stairway (IBC Sec. 1019)	NA
Two Story Vertical Openings (IBC Sec. 712.1.9)	NA
Shafts (IBC Sec. 713.4)	NA

Climate Zone: 5

Deferred Submittals:

- Automatic Fire Sprinkler System
- Fire Alarm
- Seismic Restraints for Equipment (Mechanical, Plumbing, Electrical)
- Open Web Joists

APPROVALS

APPROVERS NAME, TITLE DATE:

APPROVERS NAME, TITLE DATE:

APPROVERS NAME, TITLE DATE:

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G001 INDEX SHEET
G101 LIFE SAFETY PLANS
G200 MOUNTING HEIGHTS & CLEARANCES
G201 MOUNTING HEIGHTS & CLEARANCES
G400 EXTERIOR WALL, FLOOR AND ROOF TYPES
G500 INTERIOR WALL TYPES

CIVIL
C-001 LEGEND
C-101 DEMOLITION PLAN
C-102 SITE PLAN
C-201 GRADING PLAN
C-202 STORM DRAIN PLAN
C-301 UTILITY PLAN
C-501 STANDARD DETAILS
C-502 STANDARD DETAILS
C-503 STANDARD DETAILS

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AS502 SITE DETAILS
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LI501 IRRIGATION DETAILS
LI502 IRRIGATION NOTES & SCHEDULE
LP101 PLANTING PLAN
LP501 PLANTING DETAILS & SCHEDULE

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SE002 GENERAL STRUCTURAL NOTES
SE003 LEGENDS & ABBREVIATIONS
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SB101 FOOTING AND FOUNDATION PLAN
SB501 TYPICAL FOOTING & FOUNDATION DETAILS
SB502 TYPICAL FOOTING & FOUNDATION DETAILS
SB503 NEW WALL OPENING DETAILS
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SB602 CONCRETE ANCHOR SCHEDULES
SB611 MASONRY SCHEDULES
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SF101B MEZZANINE FLOOR FRAMING PLAN
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SF602 WOOD BEARING WALL AND WOOD DIAPHRAGM SCHEDULES
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AD310 DEMOLITION WALL SECTIONS
AD701 FIRST FLOOR DEMOLITION CEILING PLAN
A101 FIRST FLOOR PLAN
A102 EQUIP. PLATFORM FLOOR PLAN
A110 ROOF PLAN
A151 FIRST FLOOR FURNITURE PLAN
A200 EXTERIOR ELEVATIONS
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A330 ENVELOPE DETAILS
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A410 INTERIOR ELEVATIONS
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A420 CASEWORK DETAILS
A421 CASEWORK DETAILS
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P103 ROOF PLUMBING PLAN
P401 ENLARGED PLUMBING FLOOR PLANS
P501 PLUMBING DETAILS
P601 PLUMBING SCHEDULES

PROJECT GENERAL NOTES

Building Codes: Comply with requirements of the adopted editions of the international code council codes, the codes and standards referenced within the ICC codes and the Americans with Disabilities Act.

Dimensions: Wood stud walls are dimensioned to face of wood stud, unless noted otherwise. Masonry walls are dimensioned to face of masonry.

Special Inspections: An Owner-provided, AHJ approved Independent Agency will provide Special Inspections of the following Architectural Components:

Per IBC Sec 1705.12.5 (in Seismic Design Category D, E, or F:
- Erection and Fastening of:
  - Interior Nonbearing Walls
  - Exterior Nonbearing Walls
  - Exterior Veneer

Per Section 1705.12.7 (in Seismic Design Category D, E, or F):
- Storage Racks 8 Feet or Higher

Per Section 1705.14:
- Application of Exterior Insulation and Finish Systems (EIFS)

Specifications: Refer to the specifications for descriptions of products, materials and systems. The terms "SEE SPECS," "RE: SPECS" or similar references to the specifications have been omitted from drawing notes, but the requirement is still the same, to refer to the technical specifications for descriptions, installation requirements and other requirements as described therein.

Symbols: Where symbols and legends are used to indicate a product or system, provide those items in the quantity indicated by the symbol. Where plumbing fixtures, equipment, light fixtures and other similar products are shown on Architectural drawings, refer to the appropriate discipline drawings for type, utilities and other requirements.

Details: Terms such as "see specs," "re: mechanical" and so forth have been omitted from these details. All details require the general contractor and sub-contractors to refer to other drawings and specifications as required to understand and provide the items indicated and to provide supporting items that may or may not be shown.

The continuous nature of the materials shown in the details is inferred, though the word "continuous" may be omitted from the detail notes.

PROJECT GENERAL REMODEL NOTES

Verify in Field (VIF): Field verify all dimensions and conditions at the site before submitting a bid or proceeding with any portion of the work.

Cut and Patch: Cut and patch existing building construction as required. Cutting and drilling of structural members not detailed requires the written permission of the structural engineer.

Conflicts: Whenever questions arise or conditions are encountered which are not covered by, or are in conflict with, the contract documents, consult with the Architect prior to taking any further action.

Demolish, Remove: Terms are used interchangeably to indicate detaching or tearing down items from existing construction and legally disposing of them off-site unless indicted to be removed and salvaged or removed and reinstalled.

Existing to Remain: Existing items of the building that are not to be permanently removed and that are not otherwise indicated to be demolished, removed, removed and salvaged or removed and reinstalled.

Equipment Relocation: Relocate existing mechanical and electrical as required for installation of new work.

Material Disposal: Legally dispose of all demolished or removed existing material, unless noted otherwise.

Salvage Material: Coordinate with the owner for removal of existing material noted to be returned to the owner. Removal shall be by the owner unless noted otherwise.
Phasing: coordinate phasing of the work with the Owner and the Architect to meet the owner's schedule.

Protection & Cleaning: Contain all construction activity within construction barricades or fences. Protect owner's existing facilities and property adjacent to new construction. During and after work of this contract is complete, clean existing areas affected by the work to the owner's satisfaction.

Protect all existing conditions that remain during construction and/or demolition work. Repair any damage due to new work.

Repair & Replacement: Repair or replace existing facilities or property damaged by new construction. Match existing surface finish or material.

Patch & Repair: Patch and repair existing walls, floors, ceilings, landscaping, paving or other surfaces affected by demolition to match the existing material and finish.

Core Drilling Walls and Slabs:
Use ground penetrating radar or other approved method to scan concrete over metal deck, concrete suspended slabs, masonry walls, and concrete walls to locate rebar prior to core drilling any holes. Holes shall be located to avoid rebar detected. All openings and groups of openings shall be reinforced as shown on the structural drawings. Submit openings not shown on the structural drawings to the Structural Engineer for review prior to drilling.

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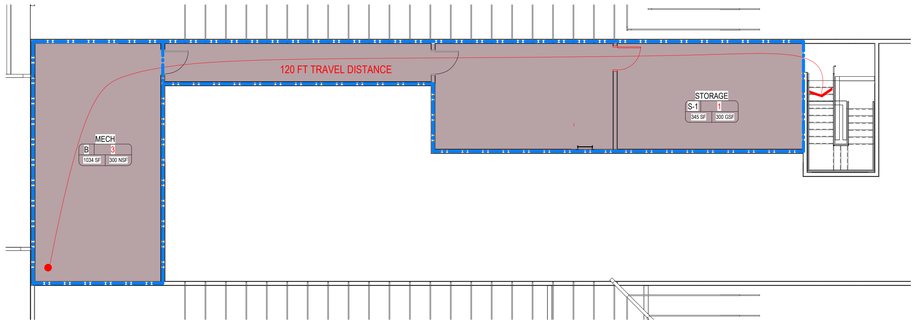
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INDEX SHEET

SHEET NUMBER
G001



MEZZANINE LIFE SAFETY PLAN

SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"



FIRST FLOOR LIFE SAFETY PLAN

SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"

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LIFE SAFETY PLAN GENERAL NOTES

References to sheets below are provided to aid in navigating the drawings.

RE: G400 for floor/ceiling and roof/ceiling rated assemblies

RE: G500 for Interior Wall Types which indicate ratings, reference termination details, and require rated wall identification.

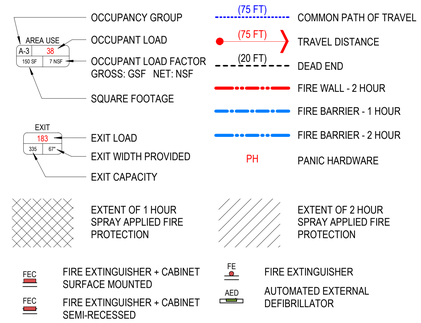
RE: A600 for the Door Schedule and door ratings.

RE: A620 for Window Types and window ratings.

Include one of the following two statements:

Exit Width Capacity: This project includes an automatic sprinkler system and an emergency voice/alarm communications sytem. Exit width capacities are based on 0.2" per occupant at stairways and 0.15" per occupant at other means of egress components.

LEGEND - LIFE SAFETY



AREA FUNCTION (IBC TABLE 1004.1.2)

- ASSEMBLY, UNCON
- BUSINESS
- STORAGE
- MECH
- Calculating...

FIRST FLOOR OCCUPANT LOAD

OCCUPANCY USE	AREA	OCCUPANT LOAD FACTOR	OCCUPANT LOAD
BUSINESS	11,594 SF	1/100 GSF	115
ASSEMBLY	4,555 SF	1/15 NSF	301
STORAGE	929 SF	1/300 NSF	4
MECHANICAL	1,489 SF*	1/15 NSF	6*
TOTALS	20,657 SF	na	426

* Includes mezzanine level occupants

FIRST FLOOR EXIT TABLE

EXIT	EXIT WIDTH	WIDTH FACTOR	EXIT CAPACITY	ACTUAL USE
01	68"	.20	340	50
02	68"	.20	340	50
03	34"	.20	170	100
04	34"	.20	170	100
05	68"	.20	340	126

FIRST FLOOR FIXTURE REQUIREMENT

OCCUPANCY USE	OC		WC		LAV		DF	SERVICE SINK
	M	F	M	F	M	F		
BUSINESS	58	58	2.2	2.2	1.5	1.5	1.15	1
ASSEMBLY	151	151	1.2	2.3	.76	.76	.60	
STORAGE	2	2	.02	.02	.02	.02	.004	
MECHANICAL	3	3	.03	.03	.03	.03	.005	
	na		3.5	4.2	2.3	2.3	1.8	1

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SHEET NAME
LIFE SAFETY PLANS

SHEET NUMBER
G101

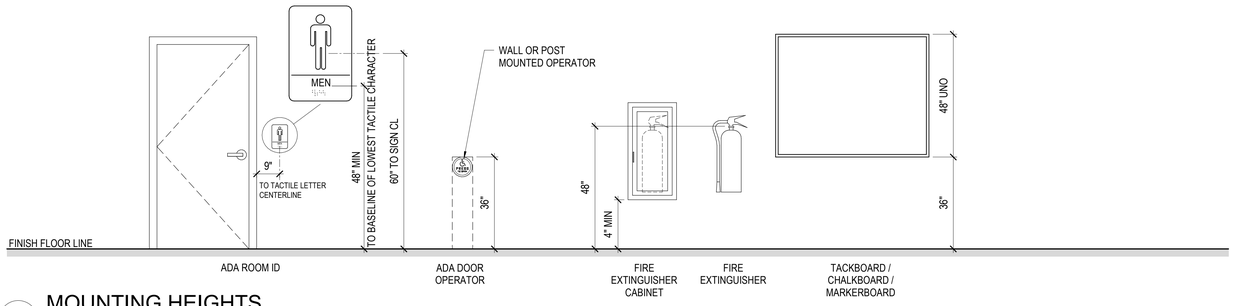
MOUNTING HEIGHTS & CLEARANCES GENERAL NOTES

Diagrams on this sheet incorporate the ADA Standard, 2010 edition and ICC/ANSI A117.1, 2009 edition requirements for accessibility. The most restrictive requirement is shown where the two standards differ.

The purpose of this sheet is to provide general clearance, size and mounting height dimensions. If other drawings provide different information, that doesn't violate the accessibility standards, that information shall govern, however, nothing shown herein shall supersede the requirement of the standards listed above, nor of the IBC.

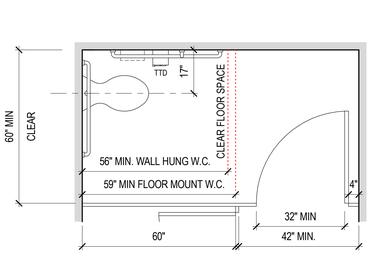
Prior to installation, coordinate toilet and bath accessory mounting heights with manufacturer's recommended heights and adjust as required to comply with ADA & ANSI requirements.

Where the accessibility standards indicate ranges of dimensions, or minimum or maximum dimensions, the dimensions on this sheet have been modified to indicate the preferred or the most restrictive of the dimensions. Where it is impractical to comply with a dimension, the dimension may be adjusted after review with the Architect and, provided the proposed change does not violate the accessibility standards.



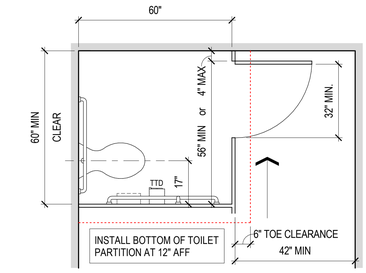
B3 MOUNTING HEIGHTS

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



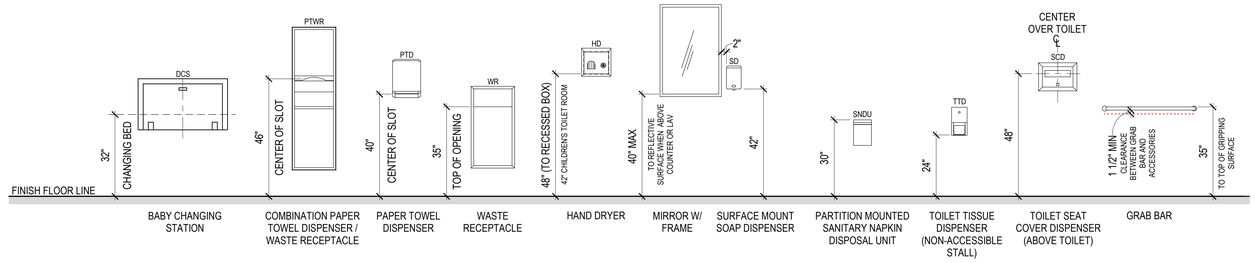
C1 ACCESSIBLE STALL PLAN

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



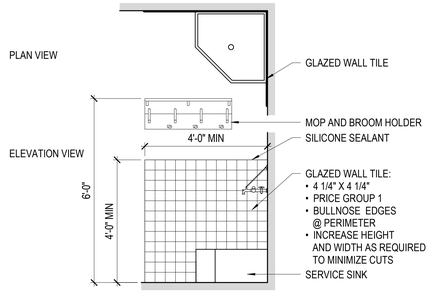
C2 ACCESSIBLE STALL PLAN

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



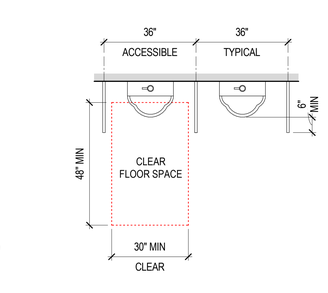
C3 TOILET ROOM EQUIPMENT

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



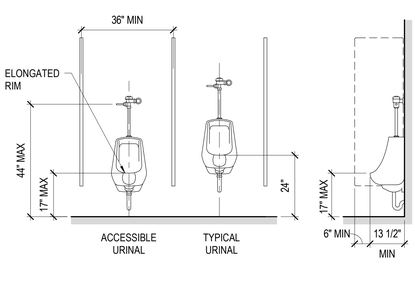
D1 SERVICE SINK

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



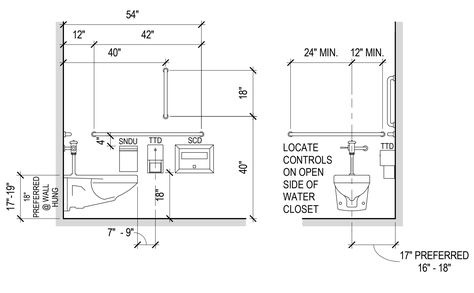
D2 URINAL PLAN

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



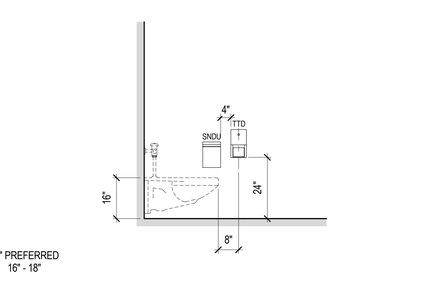
D3 URINAL MOUNTING HEIGHTS

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



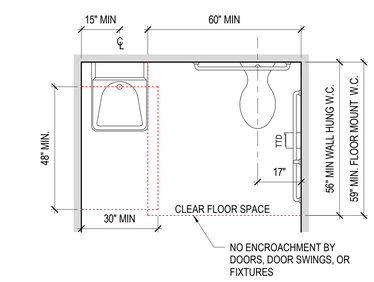
D4 ACCESSIBLE STALL MTG HEIGHTS

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



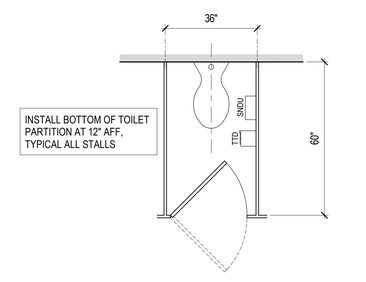
D5 NON-ACC STALL MTG HEIGHTS

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



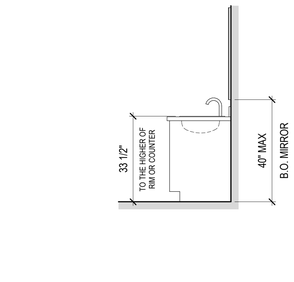
E1 STALL PLAN

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



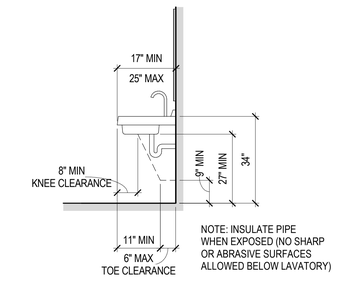
E2 NON-ACCESSIBLE STALL PLAN

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



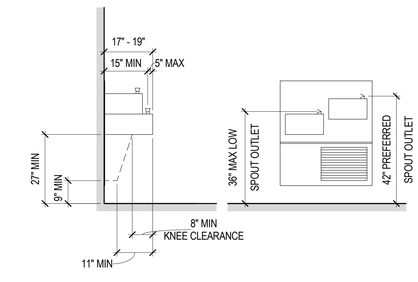
E3 DECK MOUNTED LAV HEIGHTS

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



E4 LAVATORY MOUNTING HEIGHT

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



E5 DRINKING FOUNTAIN DETAILS

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

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MHTN PROJECT NO: PROJ #2018576

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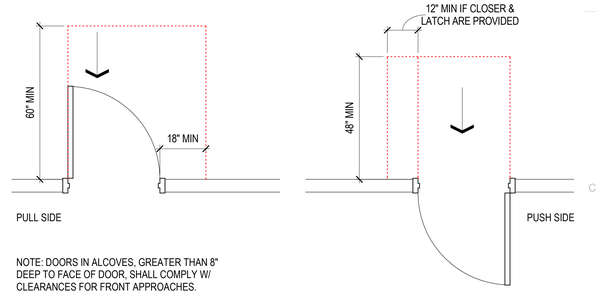
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SHEET NAME
MOUNTING HEIGHTS & CLEARANCES

SHEET NUMBER
G200

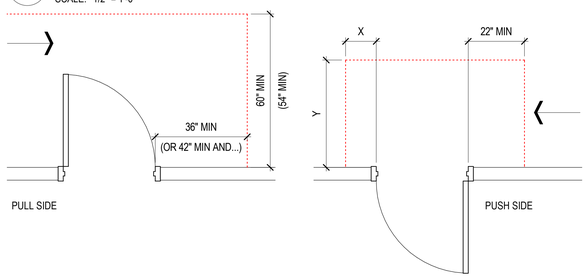
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NOTE: DOORS IN ALCOVES, GREATER THAN 8" DEEP TO FACE OF DOOR, SHALL COMPLY W/ CLEARANCES FOR FRONT APPROACHES.

C5 FRONT APPROACHES - SWINGING DOORS1

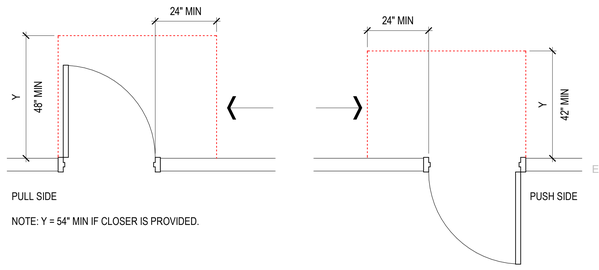
SCALE: 1/2" = 1'-0"



NOTE: X = 12" MIN AND Y = 48" MIN IF BOTH CLOSER AND LATCH ARE PROVIDED. X = 0" W/ NO CLOSER AND LATCH.

D5 HINGE SIDE APPROACHES - SWINGING DOORS1

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



NOTE: Y = 54" MIN IF CLOSER IS PROVIDED.

NOTE: Y = 48" MIN CLOSER IS PROVIDED

E5 LATCH SIDE APPROACHES - SWINGING DOORS1

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

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MHTN PROJECT NO. PROJ #2018576

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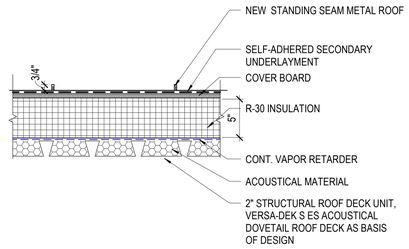
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ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
MOUNTING HEIGHTS & CLEARANCES

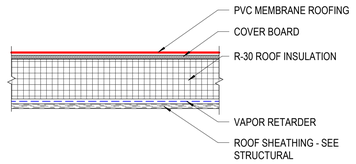
SHEET NUMBER
G201

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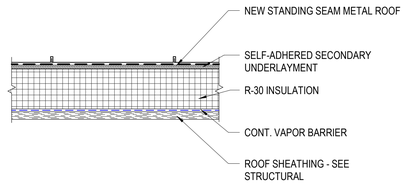
R5 ROOF TYPE

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



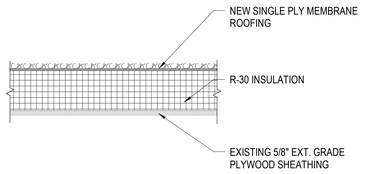
R4 ROOF TYPE

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



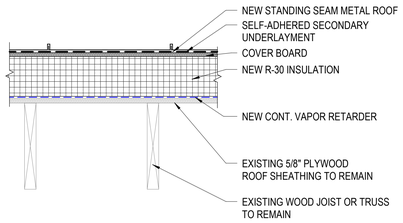
R3 ROOF TYPE

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



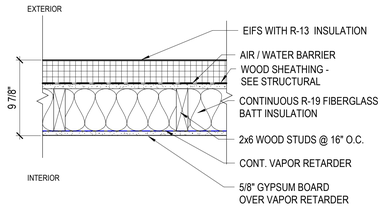
R2 ROOF TYPE

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



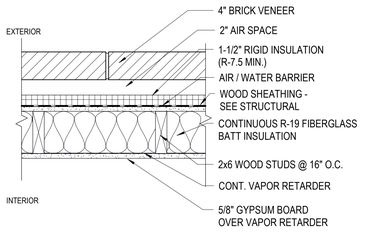
R1 ROOF TYPE

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



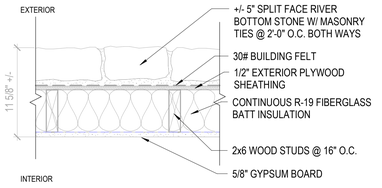
E3 EXTERIOR WALL TYPE

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



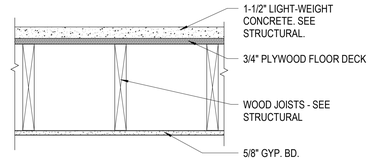
E2 EXTERIOR WALL TYPE

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



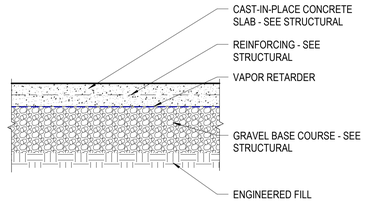
E1 EXISTING EXTERIOR WALL TYPE

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



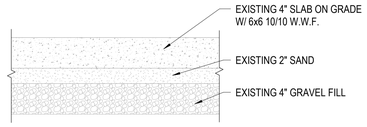
F3 FLOOR TYPE

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



F2 FLOOR TYPE

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



F1 EXISTING FLOOR TYPE

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

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ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
EXTERIOR WALL, FLOOR AND ROOF TYPES

SHEET NUMBER
G400

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INTERIOR WALL TYPE SCHEDULE

TAG	CONSTRUCTION						FIRE RESISTANCE		ACOUSTICAL	
MARK	DESCRIPTION	WIDTH	TERMINATION	LIMITING HEIGHT	HEAD DETAIL	BASE DETAIL	FIRE RATING	STANDARD	SOUND BATT	STC
	1" VENEER PANEL + 1 1/2" WOOD STUD + 1" VENEER PANEL - DIAS	5 1/2"		4'-0"			0		No	
H2A	1" VENEER PANEL + 1 1/2" WOOD STUD + 1" VENEER PANEL - DIAS	3 1/2"		4'-0"			0		No	
M8+W1AX	EXISTING 8" CMU + MTL HAT CHANNEL + 5/8" GB	9 1/8"	TO DECK	24'-0"					No	
W4B	5/8" GB + 2x4 WOOD STUD + 5/8" GB	4 3/4"	TO DECK	24'-6"					No	38
W4BX	2x4 WOOD STUD + 5/8" GB	4 1/8"	TO DECK	24'-6"					No	38
W6B	5/8" GB +2 x 6 WOOD STUD + 5/8" GB	6 3/4"	TO DECK	24'-6"					No	38
W6BX	2 x 6 WOOD STUD + 5/8" GB	6 1/8"	TO DECK	24'-6"					No	38
W6X	2 x 6 WOOD STUD	5 1/2"	TO DECK	24'-6"					No	38

INTERIOR WALL TYPE GENERAL NOTES

RE: G500 for wall termination details which occur at metal deck/structure or at base of wall.

Continuity:
Wall type designations imply that the walls are continuous, typically from corner to corner and until another wall type is indicated. At the intersection of walls of dissimilar sound and/or fire-resistance ratings, the wall with the more restrictive requirements shall continue through, uninterrupted and shall take precedence.

Typical Interior Wall Type: W6B, UNO.

Glass-mat Tile Backing Board:
Where stud walls with tile finishes are scheduled, provide glass-mat tile backing board for the full height and width of the tile. Balance of wall to be gypsum board, UNO.

Water-resistant Gypsum Board:
Provide water-resistant gypsum board at walls in wet areas with non-tile finishes.

Acoustical Sealant:
At wood stud walls with an STC rating, provide acoustical sealant at top and bottom plates.

Sound Attenuation Batts:
Where indicated, provide sound attenuation batts sized to fit snuggly in the wall cavity. Fill all voids in the wall, from floor to deck, including at wall intersections to prevent sound leakage into adjacent rooms.

Wood Stud Partitions:
Extend interior walls and partitions from floor to roof deck or floor deck above, unless noted otherwise.

Stud Spacing: 16" on center, unless noted otherwise.

Provide bracing at 48" OC maximum at non-composite walls (walls that don't have gypsum board full height on each side of the stud).

Provide control joints at 30'-0" OC maximum. If not shown, coordinate location with Architect.

Rated Wall Identification:
Provide 3" high block letters (with 3/8" minimum stroke), stencil the fire resistance rating on the wall at 30' maximum intervals, measured horizontally and within 15' of the end of the wall. Provide one (1) label minimum per wall.
Locate identification in accessible concealed floor areas, if any and in the accessible space between ceiling and structure above.

Wall Schedule Abbreviations
CMU - Concrete Masonry Unit
GB - Gypsum Board
GTB - Glass-mat Tile Backing Board
IGB - Impact-resistant Gypsum Board

WALL TYPE TAG DESCRIPTION

Core Material:
S - Metal Stud
H - Metal CH Stud
M - Concrete Masonry (CMU)
B - Structural Clay Brick
C - Concrete
W - Wood

Core Thickness:
Metal Studs:
Number indicates metal stud thickness, rounded down where applicable
0 - 7/8"
1 - 1 5/8"
2 - 2 1/2"
3 - 3 5/8"
4 - 4"
6 - 6"
8 - 8"

Brick and CMU:
Number indicates nominal thickness
4 - 3 5/8"
6 - 5 5/8"
8 - 7 5/8"
0 - 9 5/8"
2 - 11 5/8"

Concrete:
Number corresponds to thickness in whole inches
8 - 8"
0 - 10"
2 - 12"

Wood:
Number indicates nominal size of 2x framing
4 - 2 x 4
6 - 2 x 6
8 - 2 x 8

Rating:
Number indicates the fire-resistive rating in hours. Unrated walls have no designation.

Height and STC:
A - Wall is continuous to the structural deck above and includes sound batt
B - Wall is continuous to the structural deck above with no sound batt
C - Wall extends to 6" above the ceiling and includes sound batt
D - Wall extends to 6" above the ceiling with no sound batt
E - Wall extends to finished ceiling and includes sound batt
F - Wall extends to finished ceiling with no sound batt
P - Wall is partial height {to 5'-0" AFF} {- RE: Floor Plan for top of wall}

Qualifiers:
H - CMU with honed face finish
S - CMU with split face finish

Asymmetric Modifiers:
X - Single side gypsum board
T - Glass-mat tile backing board with tile finish

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SHEET NAME
INTERIOR WALL TYPES

SHEET NUMBER
G500

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EXISTING LEGEND

- PROPERTY BOUNDARY
- EXISTING SEWER
- EXISTING BURIED POWER
- EXISTING STORM DRAIN
- EXISTING IRRIGATION LINE
- EXISTING GAS
- EXISTING WATER LINE
- EXISTING OVERHEAD POWER
- EXISTING COMMUNICATION LINE
- EXISTING ASPHALT
- EXISTING CONCRETE
- EXISTING 30" CURB AND GUTTER
- EXISTING HARDSCAPE TO BE REMOVED
- EXISTING BUILDING
- EXISTING CHAINLINK FENCE
- 5440 EXISTING SURFACE CONTOUR

PROPOSED LEGEND

- PROPOSED SEWER
- PROPOSED BURIED POWER
- PROPOSED STORM DRAIN PIPE
- PROPOSED IRRIGATION LINE
- PROPOSED GAS LOCATION
- PROPOSED WATER LINE
- PROPOSED OVERHEAD POWER
- PROPOSED COMMUNICATION LINE
- PROPOSED SILT FENCE
- PROPOSED CONCRETE
- PROPOSED 24" CURB AND GUTTER
- PROPOSED 24" RELEASE PAN CURB AND GUTTER
- PROPOSED BUILDING OUTLINE
- PROPOSED ASPHALT
- 5440 PROPOSED SURFACE CONTOUR
- CONSTRUCTION LIMIT LINE

SYMBOL LEGEND

SYMBOLS IN GRAY DENOTE EXISTING FEATURES
BLACK OR COLOR DENOTE PROPOSED FEATURES

- SEWER MANHOLE
- STORMDRAIN MANHOLE
- 2'X3' STORM DRAIN INLET
- 3'X3' STORM DRAIN BOX
- WATER METER
- WATER VALVE
- FIRE HYDRANT
- UTILITY POLE
- LIGHT POLE
- HANDICAP PARKING MARKER
- COMMUNICATION BOX
- TELEPHONE BOX
- TELEPHONE PEDESTAL
- ELECTRIC BOX
- SIGN

GENERAL NOTES:

1. ALL MATERIALS, WORKMANSHIP, CONSTRUCTION AND PLACEMENT SHALL MEET OR EXCEED THE STANDARDS AND SPECIFICATIONS AS DEFINED IN THE MANUAL OF STANDARD SPECIFICATIONS AND MANUAL OF STANDARD PLANS, UTAH CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND APPLICABLE CITY, COUNTY, STATE AND FEDERAL REGULATIONS. WHERE THERE IS A CONFLICT BETWEEN THESE PLANS, SPECIFICATIONS OR ANY APPLICABLE STANDARD, THE MOST RESTRICTIVE STANDARD SHALL APPLY.
2. ALL REFERENCES TO ANY PUBLISHED STANDARDS SHALL REFER TO THE LATEST REVISION OF SAID STANDARD, UNLESS SPECIFICALLY STATED OTHERWISE.
3. WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE UTAH CHAPTER OF AMERICAN PUBLIC WORKS ASSOCIATION (APWA) STANDARD PLANS AND SPECIFICATIONS, 2017 EDITION.
4. THE CONTRACTOR WILL BE RESPONSIBLE FOR FIELD LOCATING AND VERIFYING ELEVATIONS OF ALL EXISTING SEWER MAINS, WATER MAINS, CURBS, GUTTERS AND OTHER UTILITIES AT THE POINTS OF CONNECTION SHOWN ON THE PLANS AND AT ANY UTILITY CROSSINGS PRIOR TO INSTALLING ANY OF THE SITE ELEMENTS INDICATED IN THESE PLANS. IF A CONFLICT EXISTS AND/OR A DESIGN MODIFICATION IS REQUIRED, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER. DESIGN MODIFICATION(S) MUST BE APPROVED BY THE OWNER PRIOR TO BEING IMPLEMENTED.
5. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATIONS OF EXISTING UTILITIES, AS INDICATED ON THESE PLANS, IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED UPON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT BLUE STAKES (BY DIALING 811) AT LEAST 2 WORKING DAYS PRIOR TO BEGINNING EXCAVATION, TRENCHING OR GRADING TO HAVE ALL REGISTERED UTILITY LOCATIONS MARKED. ALL OTHER UNREGISTERED UTILITIES (I.E. DITCH, IRRIGATION COMPANY, OTHER SITE-SPECIFIC UTILITIES, ETC.) ARE TO BE LOCATED BY CONTACTING, IN ADVANCE, THE RESPECTIVE REPRESENTATIVE. UTILITY SERVICE LATERALS SHOULD ALSO BE LOCATED PRIOR TO BEGINNING EXCAVATION, TRENCHING OR GRADING ACTIVITIES.
6. THE CONTRACTOR SHALL COORDINATE AND COOPERATE WITH THE PROJECT OWNER, LOCAL JURISDICTION AND ALL UTILITY COMPANIES INVOLVED REGARDING RELOCATIONS, ADJUSTMENTS, EXTENSIONS AND REARRANGEMENTS OF EXISTING UTILITIES DURING CONSTRUCTION, AND TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY FASHION AND WITH MINIMAL DISRUPTION OF SERVICE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING, IN ADVANCE, ALL PARTIES AFFECTED BY ANY DISRUPTION OF UTILITY SERVICE AS WELL AS THE UTILITY COMPANIES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES DURING CONSTRUCTION AND FOR COORDINATING WITH THE APPROPRIATE UTILITY COMPANY FOR ANY UTILITY CROSSINGS REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ALL MEANS REQUIRED TO PROTECT EXISTING UTILITIES AND/OR TO WORK AROUND SUCH UTILITIES. THIS INCLUDES, BUT IS NOT LIMITED TO, SUPPORTING EXISTING UTILITIES, SHORING AROUND EXITING UTILITIES, PHASING OF WORK AND TRAFFIC CONTROL.
8. THE CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION AND AFFECTED UTILITY COMPANY, AND ALL AFFECTED PARTIES A MINIMUM OF 24 HOURS PRIOR TO ANY WATER INTERRUPTION.
9. THE CONTRACTOR IS NOT TO OPERATE ANY VALVES, FIRE HYDRANTS AND OTHER APPURTENANCES. COORDINATE WITH THE UTILITY SUPPLIER.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY, INCLUDING, BUT NOT LIMITED TO, EXCAVATION, TRENCHING, SHORING, TRAFFIC CONTROL, SECURITY AND OTHER SITE RELATED SAFETY PRACTICES. REFER TO OSHA PUBLICATION 2226, EXCAVATING AND TRENCHING.
11. IF DURING CONSTRUCTION CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE A SITUATION THAT IS NOT IDENTIFIED IN THE PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY.
12. THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION TRAFFIC CONTROL PLAN TO THE REVIEWING AGENCY (LOCAL GOVERNMENT, UDOT OR OTHERS AS REQUIRED BY PERMIT) FOR REVIEW AND ACCEPTANCE, PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN, OR AFFECTING THE RIGHT-OF-WAY. ALL TRAFFIC CONTROL PLANS SHALL BE IN ACCORDANCE WITH MUTCD OR UDOT STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL TRAFFIC CONTROL DEVICES, PERSONNEL AND OTHER FACILITIES AS MAY BE REQUIRED BY THE CONSTRUCTION ACTIVITIES.
13. THE CONTRACTOR SHALL HAVE ONSITE AT ALL TIMES AN UP TO DATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP), A BMP MAINTENANCE FOLDER, ONE (1) SIGNED COPY OF THE APPROVED PLANS, ONE (1) COPY OF THE APPROPRIATE STANDARDS AND SPECIFICATIONS, AND A COPY OF ANY PERMITS AND AGREEMENTS NEEDED FOR THE JOB.
14. THE CONTRACTOR SHALL COMPLY WITH ALL TERMS AND CONDITIONS OF THE UTAH PERMIT FOR STORM WATER DISCHARGE, THE SWPPP AND THE EROSION CONTROL PLAN.
15. ALL BMPS SHALL BE INSTALLED AT THE LIMITS OF CONSTRUCTION AND AT AREAS WITH DISTURBED SOIL (ON OR OFF SITE) PRIOR TO ANY OTHER GROUND DISTURBING ACTIVITY. ALL BMPS SHALL BE MAINTAINED IN GOOD REPAIR BY THE CONTRACTOR, UNTIL THE ENTIRE DISTURBED AREA IS STABILIZED WITH HARD SURFACING OR LANDSCAPING.
16. MUD AND DEBRIS MUST BE REMOVED BY THE END OF EACH WORKING DAY BY AN APPROPRIATE MECHANICAL METHOD (I.E. MACHINE BROOM SWEEP, HAND SWEEPING, ETC.).
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORDING AS-CONSTRUCTED INFORMATION ON A SET OF RECORD DRAWINGS KEPT ON THE CONSTRUCTION SITE. THIS RECORD DRAWING SET SHALL BE AVAILABLE TO THE OWNERS/ ENGINEERS DESIGNATED REPRESENTATIVE AT ALL TIMES.
18. WORK ACTIVITY AND SCHEDULES SHALL BE COORDINATED WITH THE OWNER AND THEIR ACTIVITIES ON-SITE.
19. UPON COMPLETION OF CONSTRUCTION, THE SITE SHALL BE CLEANED AND RESTORED TO A CONDITION EQUAL TO, OR BETTER THAN, THAT WHICH EXISTED BEFORE CONSTRUCTION, OR TO THE GRADES AND CONDITION AS REQUIRED BY THESE PLANS AND SPECIFICATIONS.
20. IMPROVEMENTS DEPICTED IN THESE PLANS AND CONSTRUCTED BY THE CONTRACTOR SHALL BE GUARANTEED BY THE CONTRACTOR TO BE FREE FROM MATERIAL AND WORKMANSHIP DEFECTS FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE.
21. THE APPROVED, DESIGNATED PROJECT SUPERVISOR SHALL BE ONSITE WHILE WORK IS BEING CONDUCTED.
22. SOIL COMPACTION EFFORT SHALL BE AS FOLLOWS:
    a. THE MINIMUM RELATIVE DENSITY SHALL BE 98% OF THE MODIFIED PROCTOR (ASTM D 1557 OR AASHTO T 180) FOR A-1 SOILS.
    b. THE MINIMUM RELATIVE DENSITY SHALL BE 96% OF THE STANDARD PROCTOR (ASTM D 698 OR AASHTO T 99) FOR ALL SOILS OTHER THAN A-1 SOILS THAT LIE BENEATH PAVEMENTS, STRUCTURES AND OTHER ELEMENTS AS DEFINED IN THIS PLAN AND SPECIFICATIONS.
    c. THE MINIMUM RELATIVE DENSITY SHALL BE 90% OF THE STANDARD PROCTOR (ASTM D 698 OR AASHTO T 99) FOR ALL SOILS OTHER THAN A-1 SOILS THAT LIE BENEATH LANDSCAPED OR OTHER AREAS THAT ARE NOT INTENDED FOR VEHICULAR OR STRUCTURAL LOADINGS.

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KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

23 EAST CENTER STREET
KAYSVILLE, UTAH 84037

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SEAL

PROFESSIONAL ENGINEER
6/14/19
No. 485730-2202
JOSEPH M. TAKICETT
STATE OF UTAH

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

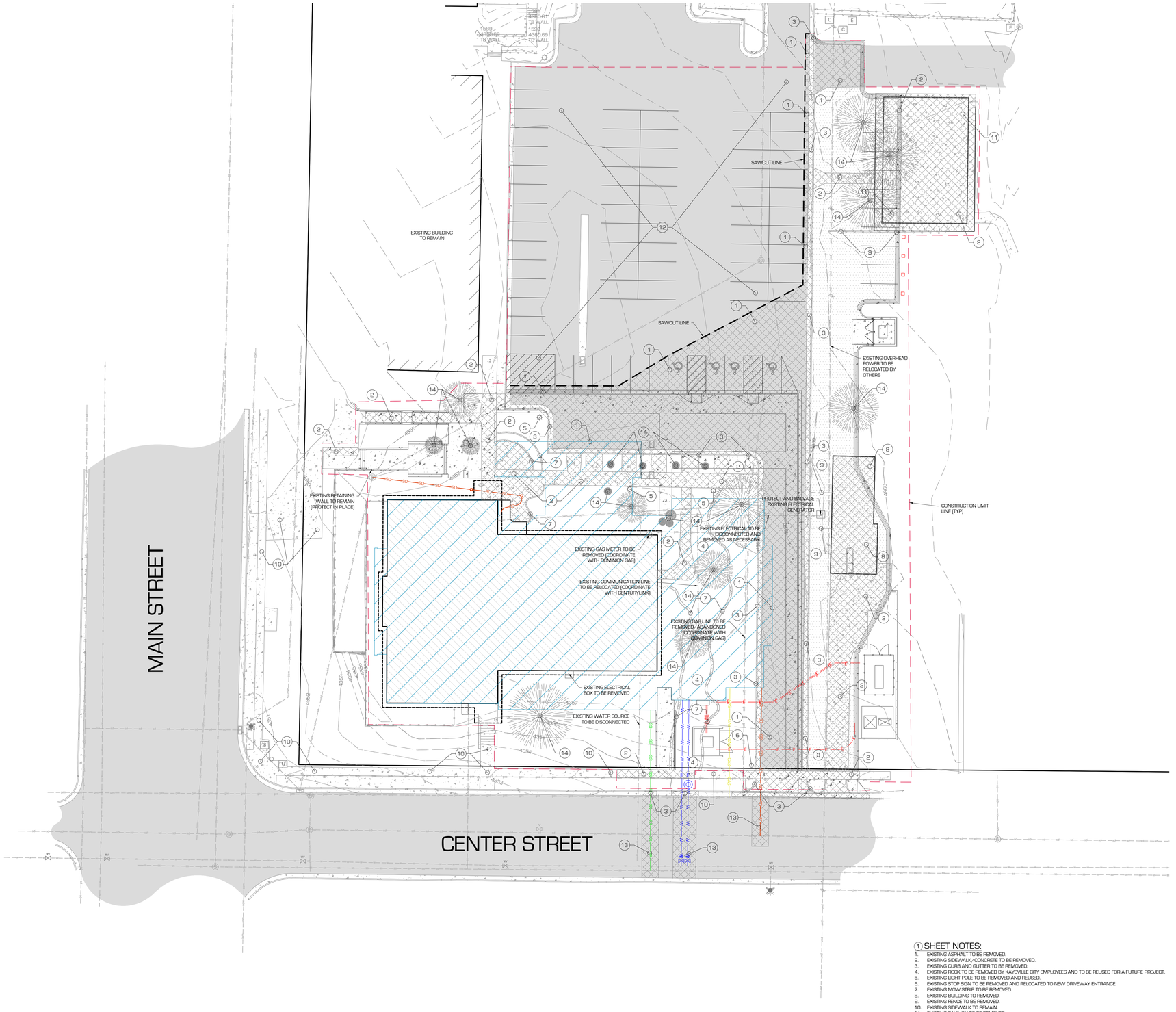
REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT
LAST REVISION DATE:

NO.	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
LEGEND

SHEET NUMBER
C-001



N

0 20' 40'

① SHEET NOTES:

1. EXISTING ASPHALT TO BE REMOVED.
2. EXISTING SIDEWALK/CONCRETE TO BE REMOVED.
3. EXISTING CURB AND GUTTER TO BE REMOVED.
4. EXISTING ROCK TO BE REMOVED BY KAYSVILLE CITY EMPLOYEES AND TO BE REUSED FOR A FUTURE PROJECT.
5. EXISTING LIGHT POLE TO BE REMOVED AND REUSED.
6. EXISTING STOP SIGN TO BE REMOVED AND RELOCATED TO NEW DRIVEWAY ENTRANCE.
7. EXISTING MOW STRIP TO BE REMOVED.
8. EXISTING BUILDING TO REMOVED.
9. EXISTING FENCE TO BE REMOVED.
10. EXISTING SIDEWALK TO REMAIN.
11. EXISTING PAVILION TO BE REMOVED.
12. EXISTING ASPHALT TO REMAIN.
13. ASPHALT TRENCH REPAIR [7/ 502]. MILL AND OVERLAY NOT REQUIRED.
14. EXISTING TREE TO BE REMOVED.

GENERAL NOTES:

1. GENERAL SITE CLEARING AND GRUBBING WILL BE REQUIRED. STRIP AND STOCKPILE EXISTING TOP SOIL FOR USE IN PROPOSED LANDSCAPE AREAS.
2. CONTRACTOR TO SAWCUT ASPHALT/CONCRETE ALONG ALL SECTIONS WHERE TYING EXISTING AND PROPOSED ASPHALT/CONCRETE TO MAKE CLEAN CONNECTION. CUT CONCRETE AT NEAREST EXISTING JOINT WHERE POSSIBLE.
3. ALL FEATURES NOT NOTED TO BE REMOVED SHALL REMAIN.
4. CONTRACTOR TO REMOVE EXISTING CONCRETE ON NORTH AND EAST SIDE OF EXISTING BUILDING, AS INDICATED ON THIS SHEET.

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SEAL

PROFESSIONAL ENGINEER
6/14/19
No. 485700-2202
KEVIN NEIL DAMCETT
STATE OF UTAH

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

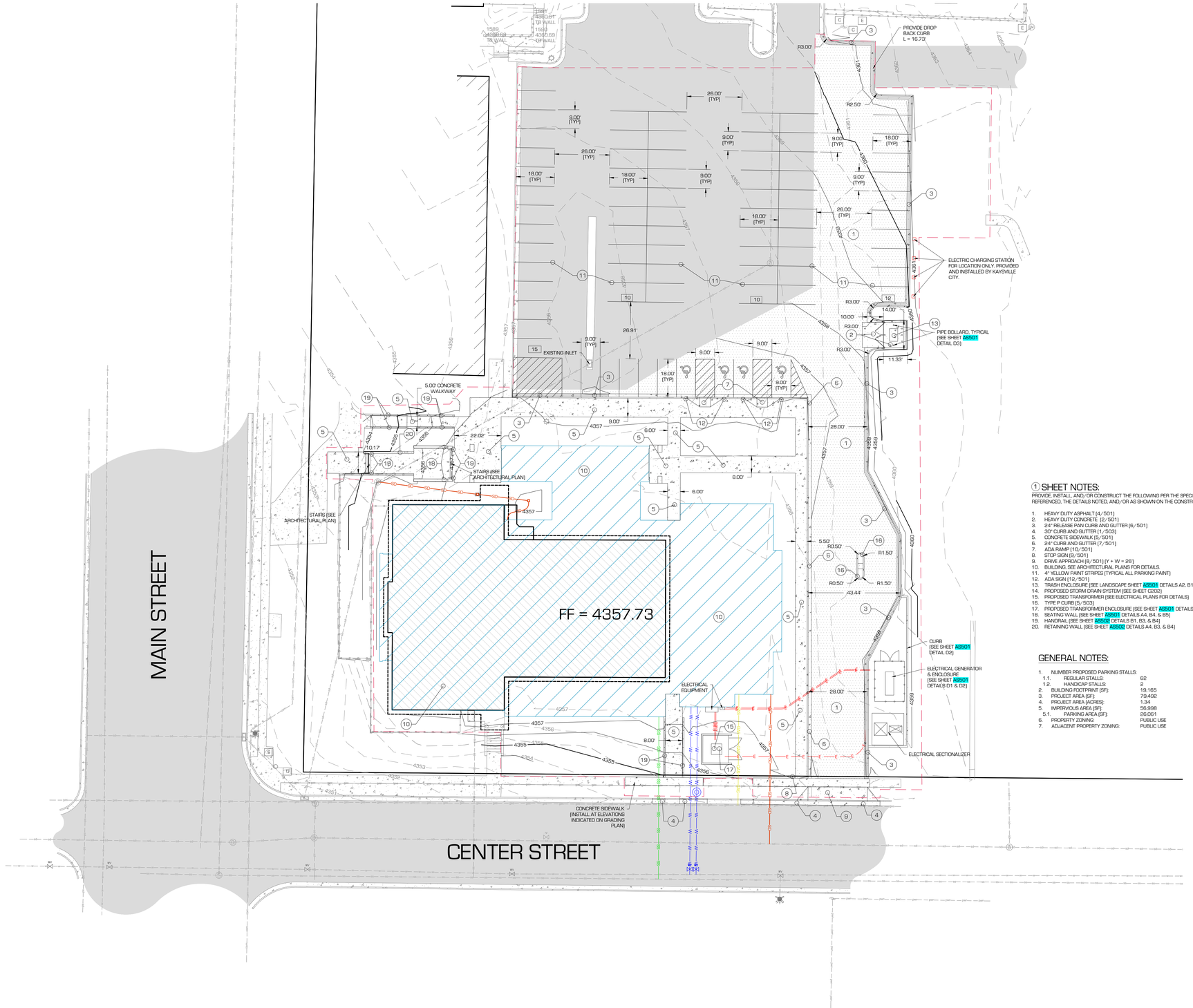
REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION
1	06/25/19	ADDENDUM 01

ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
SITE DEMOLITION

SHEET NUMBER
C-101



N

0 20' 40'

1 SHEET NOTES:

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

1. HEAVY DUTY ASPHALT (4/501)
2. HEAVY DUTY CONCRETE (2/501)
3. 24" RELEASE PAN CURB AND GUTTER (6/501)
4. 30" CURB AND GUTTER (1/503)
5. CONCRETE SIDEWALK (5/501)
6. 24" CURB AND GUTTER (7/501)
7. ADA RAMP (10/501)
8. STOP SIGN (9/501)
9. DRIVE APPROACH (6/501)[Y + W = 26']
10. BUILDING, SEE ARCHITECTURAL PLANS FOR DETAILS.
11. 4" YELLOW PAINT STRIPES (TYPICAL ALL PARKING PAINT)
12. ADA SIGN (12/501)
13. TRASH ENCLOSURE (SEE LANDSCAPE SHEET A5501 DETAILS A2, B1, C1, C3, D1, D2, D3, & D4)
14. PROPOSED STORM DRAIN SYSTEM (SEE SHEET C202)
15. PROPOSED TRANSFORMER (SEE ELECTRICAL PLANS FOR DETAILS)
16. TYPE P CURB (5/503)
17. PROPOSED TRANSFORMER ENCLOSURE (SEE SHEET A5501 DETAILS C1, C2, C3, & C4)
18. SEATING WALL (SEE SHEET A5501 DETAILS A4, B4, & B5)
19. HANDRAIL (SEE SHEET A5502 DETAILS B1, B3, & B4)
20. RETAINING WALL (SEE SHEET A5502 DETAILS A4, B3, & B4)

GENERAL NOTES:

1.	NUMBER PROPOSED PARKING STALLS:	
1.1.	REGULAR STALLS:	62
1.2.	HANDICAP STALLS:	2
2.	BUILDING FOOTPRINT [SF]:	19,165
3.	PROJECT AREA [SF]:	79,492
4.	PROJECT AREA [ACRES]:	1.34
5.	IMPERVIOUS AREA [SF]:	56,998
5.1.	PARKING AREA [SF]:	26,061
6.	PROPERTY ZONING:	PUBLIC USE
7.	ADJACENT PROPERTY ZONING:	PUBLIC USE

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PROFESSIONAL ENGINEER
6/14/19
No. 485700-2202
KEVIN JAMES EMMETT
STATE OF UTAH

MHTN PROJECT NO. PROJ #2018576

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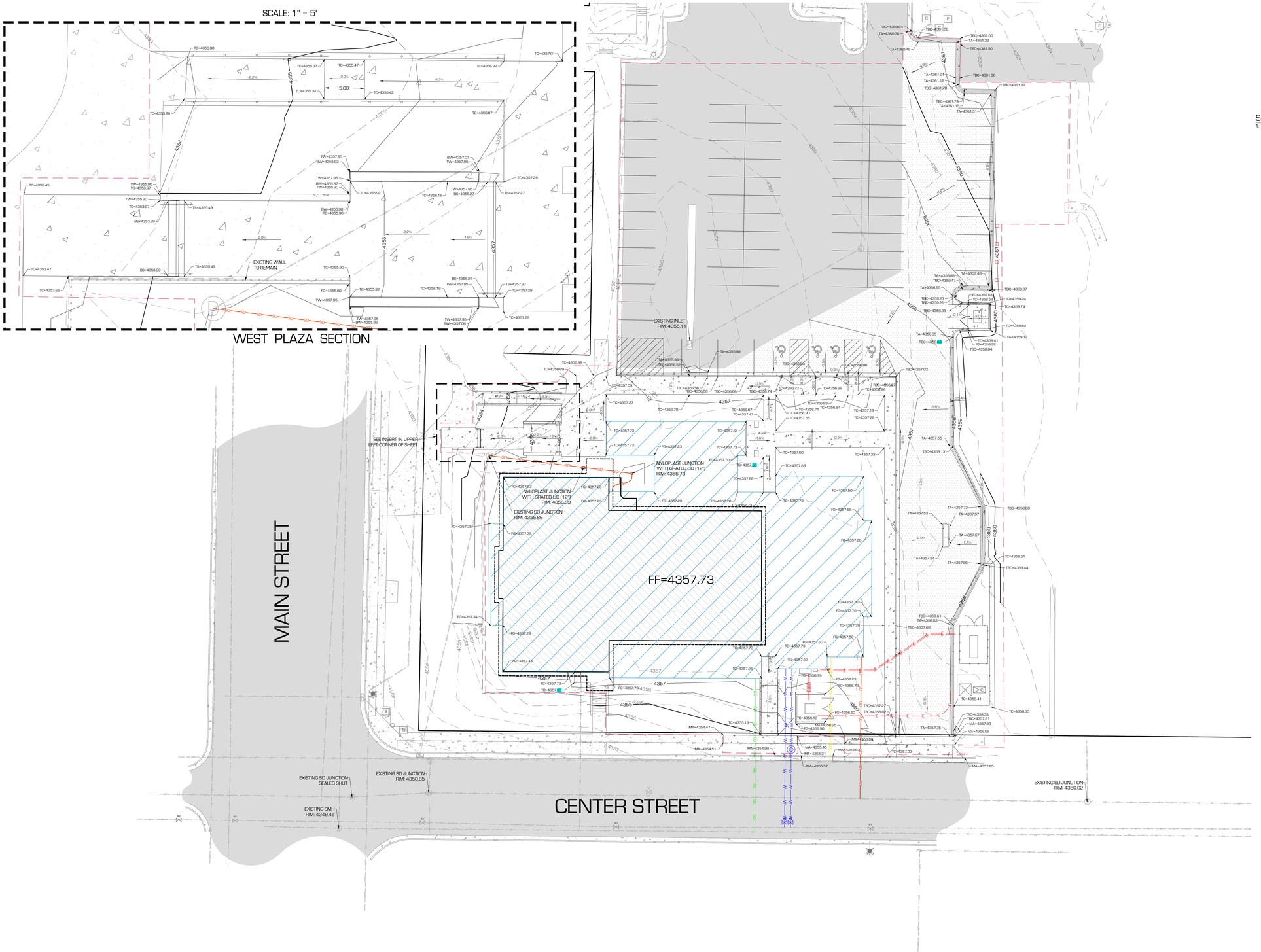
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NO.	DATE	DESCRIPTION
1	06/26/19	ADDENDUM #1

ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
SITE PLAN

SHEET NUMBER
C-102



N

0 20' 40'

SHEET NOTES:

1. ADA ACCESS ROUTES TO BE GRADED WITH MAXIMUM 2% CROSS SLOPE AND 5% RUNNING SLOPE.

SHEET ABBREVIATIONS:

1. TBC = TOP BACK OF CURB
2. TC = TOP OF CONCRETE
3. MA = MATCH EXISTING
4. TW = TOP OF WALL
5. BW = BOTTOM OF WALL
6. FG = FINISHED GRADE
7. BS = BOTTOM OF STAIR
8. TS = TOP OF STAIR
9. TA = TOP OF ASPHALT

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SEAL

PROFESSIONAL ENGINEER
6/14/19
No. 457300-2202
COLLIN T. TAMCETT
STATE OF UTAH

MHTN PROJECT NO. PROJ #2018576

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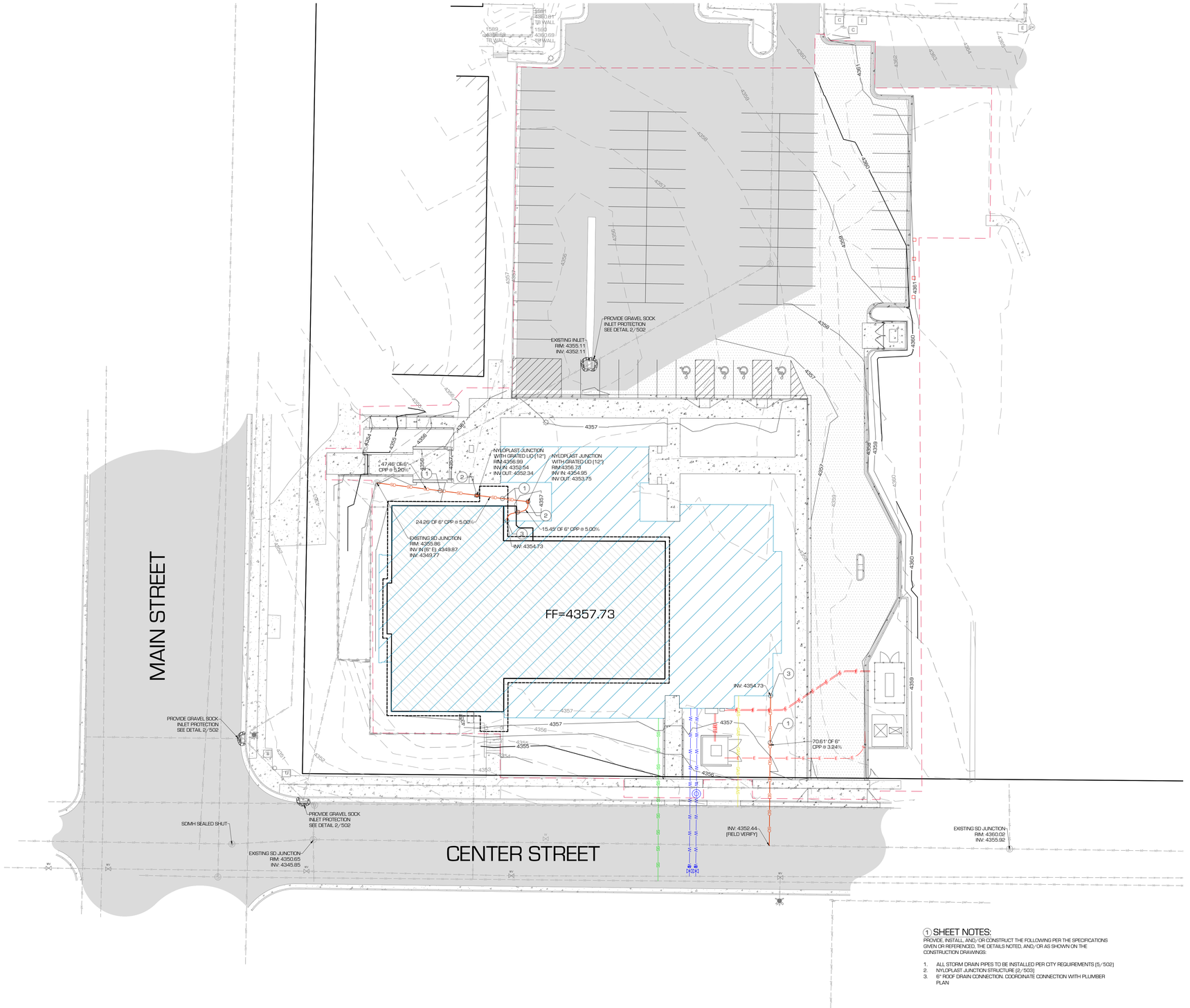
REVISIONS
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NO.	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
GRADING PLAN

SHEET NUMBER
C - 201



1 SHEET NOTES:

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

1. ALL STORM DRAIN PIPES TO BE INSTALLED PER CITY REQUIREMENTS (5/502)
2. NYLOPLAST JUNCTION STRUCTURE (2/503)
3. 6" ROOF DRAIN CONNECTION. COORDINATE CONNECTION WITH PLUMBER PLAN

GENERAL NOTES:

1. CONTRACTOR TO VERIFY LOCATIONS OF ALL EXISTING UTILITY LOCATIONS AND INVERT ELEVATIONS.
2. CONTRACTOR TO COORDINATE WITH APPROPRIATE UTILITY COMPANIES FOR PLACEMENT OF POWER, COMMUNICATION AND GAS.
3. DURING INSTALLATION AND CONSTRUCTION, CONTRACTOR TO FOLLOW MANUFACTURERS RECOMMENDATIONS WITH MINIMUM COVER AND TRENCH BACKFILL ALONG ALL ADS CORRUGATED PIPES.

SHEET ABBREVIATIONS:

1. CPP = CORRUGATED PLASTIC PIPE OR APPROVED EQUAL

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PROFESSIONAL ENGINEER
6/14/19
No. 485730-2202
KEVIN J. TAMCZYK
STATE OF UTAH

MHTN PROJECT NO. PROJ #2018576

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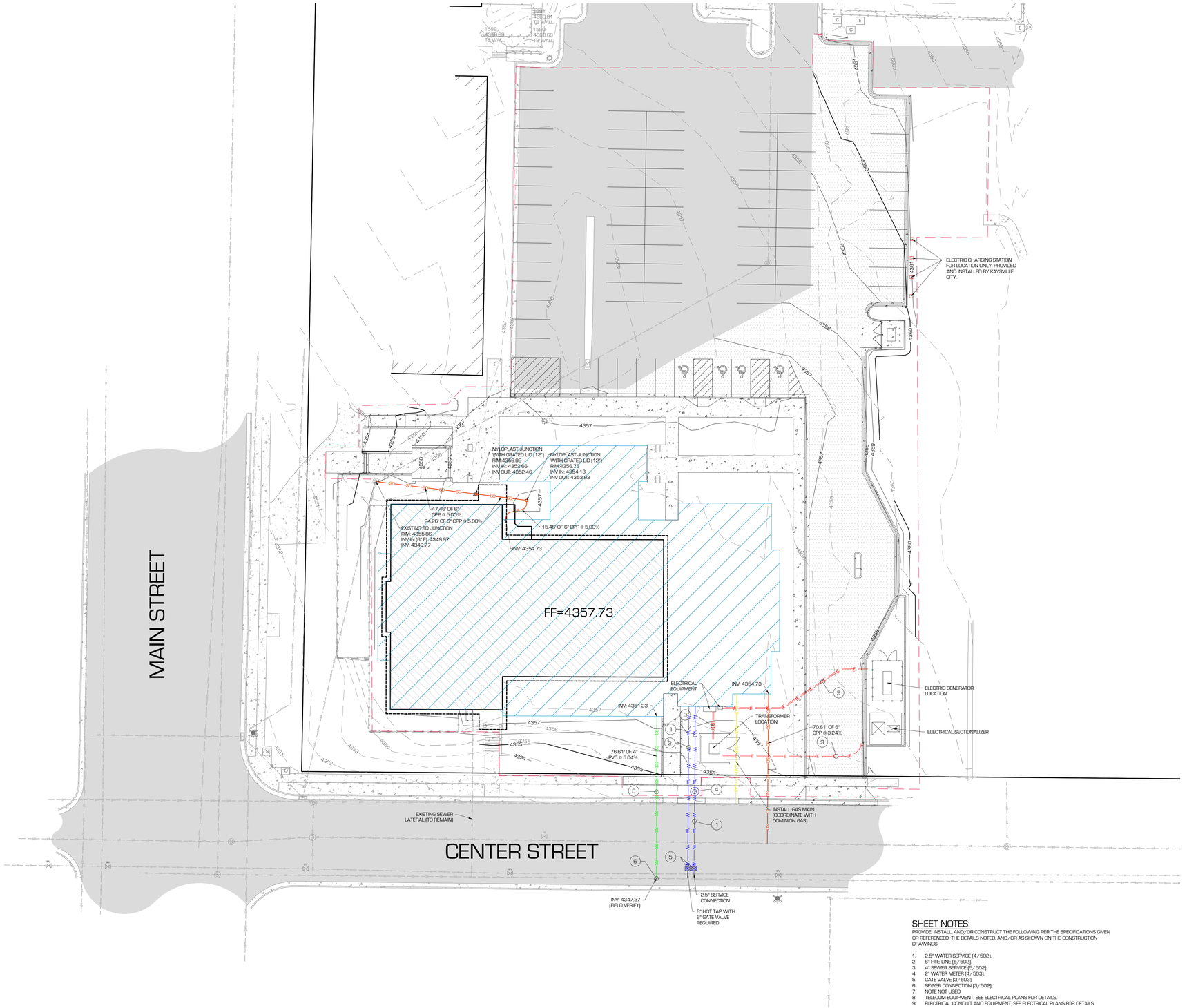
REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
STORM DRAIN

SHEET NUMBER
C-202



SHEET NOTES:

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

1. 2.5" WATER SERVICE (4/502).
2. 6" FIRE LINE (5/502).
3. 4" SEWER SERVICE (5/502).
4. 2" WATER METER (4/503).
5. GATE VALVE (3/503).
6. SEWER CONNECTION (3/502).
7. NOTE NOT USED
8. TELECOM EQUIPMENT, SEE ELECTRICAL PLANS FOR DETAILS.
9. ELECTRICAL CONDUIT AND EQUIPMENT, SEE ELECTRICAL PLANS FOR DETAILS.

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE REQUIRED CONDUIT, PULL BOXES, AND OTHER REQUIRED FACILITIES FOR ALL ELECTRICAL ELEMENTS. REFER TO ELECTRICAL PLANS FOR SPECIFICS.
2. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITY LOCATIONS AND INVERT ELEVATIONS.
3. CONTRACTOR TO COORDINATE WITH APPROPRIATE UTILITY COMPANIES FOR PLACEMENT OF POWER, COMMUNICATION, AND GAS.

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SEAL

PROFESSIONAL ENGINEER
6/14/19
No. 485730-2202
KEVIN TAMCZITT
STATE OF UTAH

MHTN PROJECT NO. PROJ #2018576

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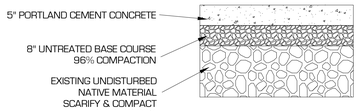
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NO.	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
UTILITY PLAN

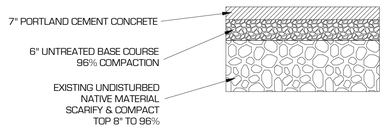
SHEET NUMBER
C-301



NOTES:
1. PORTLAND CEMENT CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH.
2. CONCRETE SHALL BE AIR ENTRAINED WITH 6% AIR [± 1%].
3. PROVIDE CONTRACTION JOINTS @ 10'-0" O.C.
4. PROVIDE EXPANSION JOINTS @ 50'-0" O.C.
5. SEE DETAIL 11 (C501) FOR SPECIFICATIONS.

1 / C501 — STANDARD DUTY CONCRETE

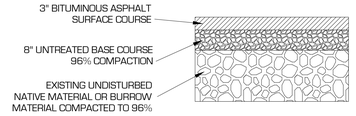
NOT TO SCALE



NOTES:
1. PORTLAND CEMENT CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 5,000 POUNDS PER SQUARE INCH.
2. CONCRETE SHALL BE AIR ENTRAINED WITH 6% AIR [± 1%].
3. PROVIDE CONTRACTION JOINTS @ 10'-0" O.C.
4. PROVIDE EXPANSION JOINTS @ 50'-0" O.C.
5. SEE DETAIL 11 (C501) FOR SPECIFICATIONS)

2 / C501 — HEAVY DUTY CONCRETE

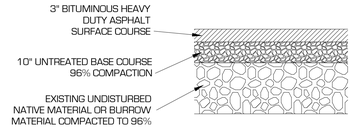
NOT TO SCALE



NOTES:
1. SEE DETAIL 11 (C501) FOR SPECIFICATIONS
2. ASPHALT BINDER: PG 58-28 OR EQUIVALENT
3. ASPHALT GRADATION: DM-1/2 MIN
4. ASPHALT COMPACTION: 94% MIN
5. UNTREATED BASE COURSE MATERIAL: MEET APWA OR UDOT MINIMUM SPECIFICATION

3 / C501 — STANDARD DUTY ASPHALT

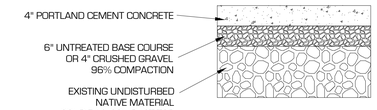
NOT TO SCALE



NOTES:
1. SEE DETAIL 11 (C501) FOR SPECIFICATIONS
2. ASPHALT BINDER: PG 58-28 OR EQUIVALENT
3. ASPHALT GRADATION: DM-1/2 MIN
4. ASPHALT COMPACTION: 94% MIN
5. UNTREATED BASE COURSE MATERIAL: MEET APWA OR UDOT MINIMUM SPECIFICATION

4 / C501 — HEAVY DUTY ASPHALT

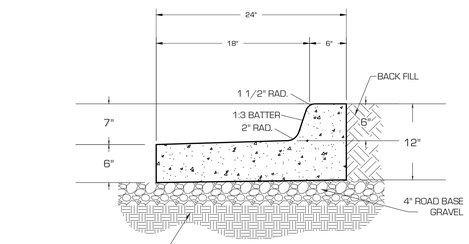
NOT TO SCALE



NOTES:
1. PORTLAND CEMENT CONCRETE SHALL HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 POUNDS PER SQUARE INCH.
2. CONCRETE SHALL BE AIR ENTRAINED WITH 6% AIR [± 1%].
3. PROVIDE CONTRACTION JOINTS @ 10'-0" O.C.
4. PROVIDE EXPANSION JOINTS @ 50'-0" O.C.
5. SEE DETAIL 11 (C501) FOR SPECIFICATIONS.

5 / C501 — CONCRETE FLATWORK / WALKWAY

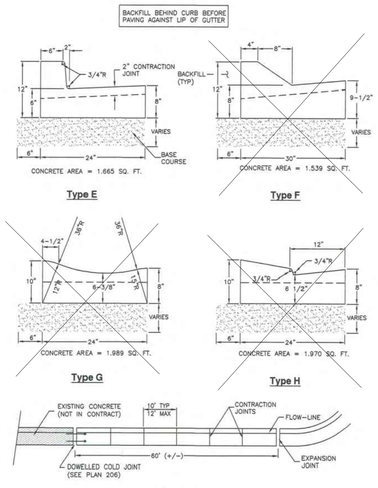
NOT TO SCALE



NOTES:
1. ALL CURB & GUTTER TO BE CLOSED FACE EXCEPT AS INDICATED.
2. CONCRETE SHALL BE AIR ENTRANED (6% ± 1%)
3. PROVIDE CONTRACTION JOINTS @ 10'-0" O.C.
4. PROVIDE EXPANSION JOINTS @ 50'-0" O.C.

6 / C501 — 24" RELEASE CURB AND GUTTER

NOT TO SCALE

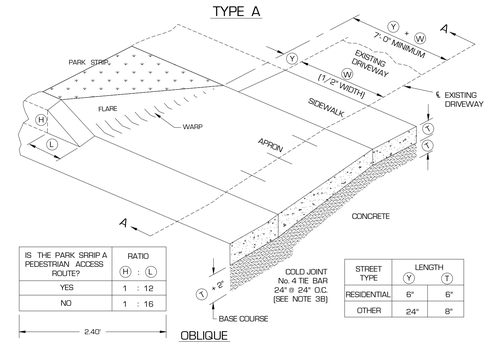


JOINT DETAIL

Curb and gutter

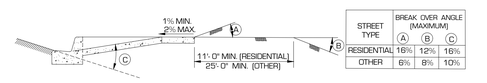
Plan 205.2 April 2011

7 / C501



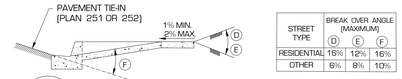
IS THE PARK STRIP A PEDESTRIAN ACCESS ROUTE?	RATIO (H) : (L)
YES	1 : 12
NO	1 : 16

STREET TYPE	LENGTH (Y)	(T)
RESIDENTIAL	6"	6"
OTHER	24"	8"



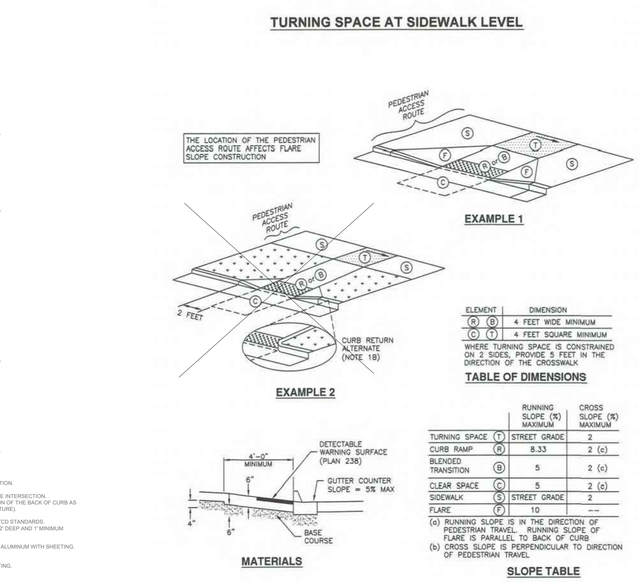
STREET TYPE	BREAK OVER ANGLE (MAXIMUM) (A)	(B)	(C)
RESIDENTIAL	16%	12%	16%
OTHER	6%	8%	10%

SECTION A-A - APPROACH REQUIRING SERVICE TRUCK ACCESS



STREET TYPE	BREAK OVER ANGLE (MAXIMUM) (D)	(E)	(F)
RESIDENTIAL	16%	12%	16%
OTHER	6%	8%	10%

8 / C501 — SECTION A-A - TYICAL DRIVEWAY APPROACH



ELEMENT		DIMENSION
(R)	(B)	4 FEET WIDE MINIMUM
(C)	(F)	4 FEET SQUARE MINIMUM

WHERE TURNING SPACE IS CONSTRAINED ON 2 SIDES, PROVIDE 5 FEET IN THE DIRECTION OF THE CROSSWALK

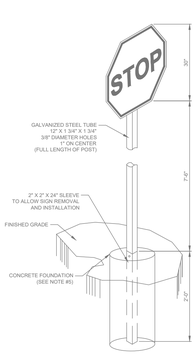
		RUNNING SLOPE (%) MAXIMUM	CROSS SLOPE (%) MAXIMUM
TURNING SPACE	(T)	STREET GRADE	2
CURB RAMP	(R)	8.33	2 (c)
BLENDED TRANSITION	(B)	5	2 (c)
CLEAR SPACE	(C)	5	2 (c)
SIDEWALK	(S)	STREET GRADE	2
FLARE	(F)	10	--

(a) RUNNING SLOPE IS IN THE DIRECTION OF PEDESTRIAN TRAVEL. RUNNING SLOPE OF FLARE IS PARALLEL TO BACK OF CURB
(b) CROSS SLOPE IS PERPENDICULAR TO DIRECTION OF PEDESTRIAN TRAVEL

Mid-block curb cut assembly

Plan 236.1 September 2011

10 / C501



NOTES:
1. FORMAT: SECURE ENGINEER'S APPROVAL OF SIGN FORMAT AND INSTALLATION.
2. INSTALLATION:
2.A. INSTALL SIGNS ON THE NORTH-WEST OR SOUTH-EAST CORNERS OF THE INTERSECTION.
2.B. INSTALL THE EDGE OF THE SIGN 2 FEET FROM THE VERTICAL EXTENSION OF THE BACK OF CURB AS NEAR AS POSSIBLE TO THE APPROACH CURB P.C. (POINT OF CURVATURE)
3. NAMED STREETS SHOULD ALSO INCLUDE NUMERIC LOCATION ON SIGN.
4. ALL REGULATORY SIGNS SHALL COMPLY WITH THE LATEST UDOT AND MUTCD STANDARDS.
5. INSTALL CONCRETE FOUNDATION PER UDOT STANDARD DRAWING SN11A, 2' DEEP AND 1' MINIMUM DIAMETER FOUNDATION.

REGULATORY SIGNS:
1. ALL STOP (R1-1-30), YIELD (R1-2-36) & SPEED LIMIT (R2-1-24) SIGNS ARE .080 ALUMINUM WITH SHEETING.
2. SPEED LIMIT SIGNS SHALL BE A MIN 24" X 30".
3. INFORMATIONAL AND WARNING SHALL BE 30" X 30".
4. ALL SIGNS .080 ALUMINUM DIAMOND GRADE TYPE 9 LETTERING AND SHEETING.

9 / C501 — STOP SIGN DETAIL

NOT TO SCALE

3.2 Civil

A. **Paving**

(1) Use untreated base course under all curbs and gutters. Use untreated base course material under all sidewalks exterior flatwork and paved areas.
(2) Untreated base course under asphalt paving: Asphalt - 8" minimum compacted base (96%)
(3) Concrete – curbs, gutters, sidewalks, exterior flatwork – Minimum 6" compacted base (96%) or minimum 4-3/4" crushed gravel.

Untreated Base Course	
Size	**% by Weight Paving Sieve**
1"	100
½"	70 to 100
#4	41 to 68
#16	21 to 41
#50	10 to 27
#200	4 to 13

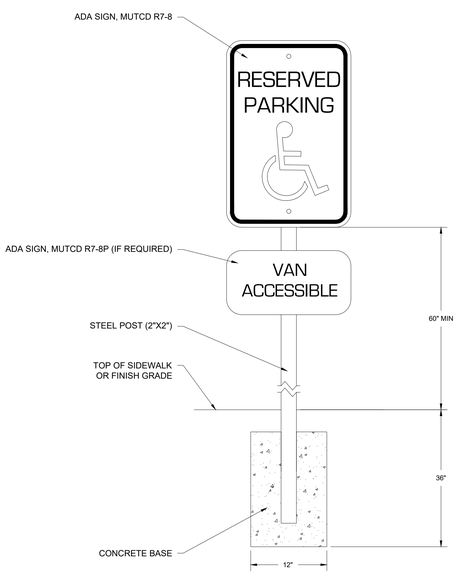
(4) Surface course (asphalt) aggregate:

Surface Course (asphalt)	
Size	**% by Weight Paving Sieve**
½%	100
3/8"	70 to 100
#4	50 to 78
#16	30 to 48
#50	18 to 31
#200	7 to 13

(5) Base course (lower lift) can be ¾" asphalt if placed in more than 1 lift.
(6) Construct asphalt paving only when atmospheric temperature is above 50 degree F and underlying base is from moisture. Permit no vehicular traffic for at least 24 hours after laying asphalt pavements.
(7) Striping paint: State of Utah #780. Spread at the rate of 103-113 sf/gal. Minimum thickness shall be 7 dry mil.
(8) Tack coat all adjoining materials, i.e. previously constructed asphalt, concrete, etc. except untreated base course.
(9) Surface smoothness: variation in the finished surface must not exceed 1/8" in 10 ft. in any direction.
(10) Asphalt shall comply with Marshall Design with voids 1.5% to 3.0%
(11) Drainage: Slope all asphalt concrete paving surfaces for positive drainage a minimum of 1.5% and preferable 2%.
(12) Minimum thickness for parking areas: 3". Minimum thickness for road areas and truck traffic is 3" including dumpster access.
(13) Maximum thickness for lifts: 3"

11 / C501 — PAVING DESIGN REQUIREMENTS

NOT TO SCALE



12 / C501 — ADA SIGN

NOT TO SCALE

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KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

23 EAST CENTER STREET
KAYSVILLE, UTAH 84037

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PROFESSIONAL ENGINEER — 6/14/19 — No. 485700-2202 — CHRISTOPH D. AMBOETT — STATE OF UTAH

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

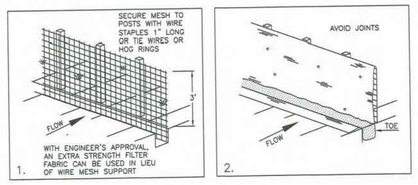
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ISSUE
CONFORMANCE SET
AUGUST 28, 2019

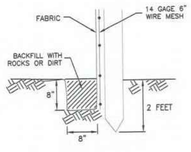
SHEET NAME
STANDARD DETAILS

SHEET NUMBER
C -501

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



INSTALLATION SEQUENCE

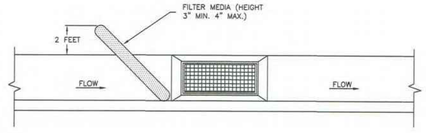


TOE DETAIL

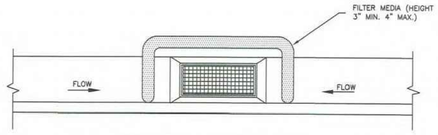
Utah Chapter — *Silt fence* — Plan 122, February 2006

1 / C502

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



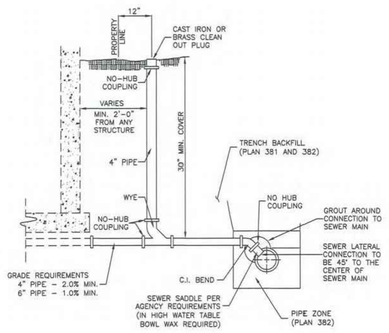
ON-GRADE INLET PROTECTION DETAIL



SUMP INLET PROTECTION DETAIL

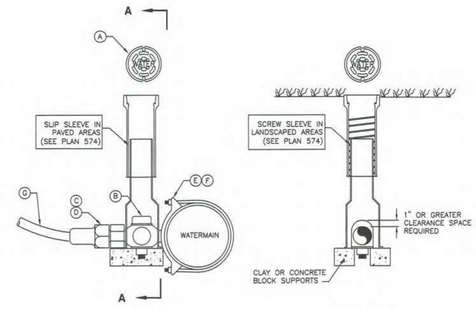
Utah Chapter — *Inlet protection - gravel sock* — Plan 124.1, September 2006

2 / C502



Utah Chapter — *Sewer lateral connection* — Plan 431, January 2011

3 / C502



ELEVATION **SECTION A-A**

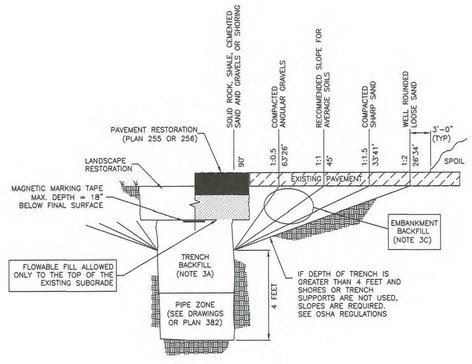
LEGEND			
No.	*	ITEM	DESCRIPTION
(A)		VALVE BOX WITH LID	2 PIECE CAST IRON
(B)		CORPORATION STOP	BRASS
(C)		COPPER ADAPTER	
(D)		FLARE OR PACK JOINT COPPER ADAPTER	
(E)		SERVICE SADDLE CLAMP	D.I., A.C., C.I.
(F)		SERVICE SADDLE CLAMP	P.V.C.
(G)		COPPER PIPE (SERVICE LINE)	TYPE K (SOFT)

* FURNISHED BY UTILITY AGENCY

Utah Chapter — *1 1/2" and 2" Service taps* — Plan 552, August 2001

4 / C502

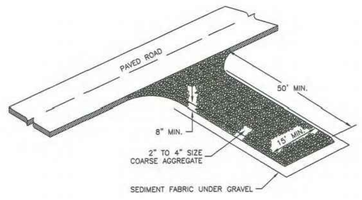
NARRATIVE: THIS PLAN SHOWS VARIOUS SLOPES RECOMMENDED FOR VARIOUS TYPES OF SLOPE STABILITY PROBLEMS. THE VERTICAL TEXT INDICATES VARIOUS MATERIALS THAT MAY BE ENCOUNTERED. THE SERVICES OF A PROFESSIONAL SOILS ENGINEER SHOULD BE USED TO VERIFY SLOPE STABILITY.



Utah Chapter — *Trench backfill* — Plan 381, July 2016

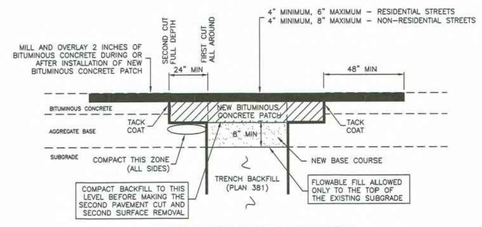
5 / C502

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

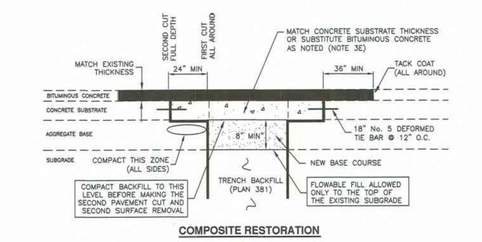


Utah Chapter — *Stabilized roadway entrance* — Plan 126, February 2006

6 / C502



BITUMINOUS CONCRETE RESTORATION



COMPOSITE RESTORATION

Utah Chapter — *Bituminous pavement T-patch* — Plan 255, November 2015

7 / C502

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KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

23 EAST CENTER STREET
KAYSVILLE, UTAH 84037

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6/14/19
No. 485730-2202
GRANT M. TANCETT
STATE OF UTAH

MHTN PROJECT NO. PROJ #2018576

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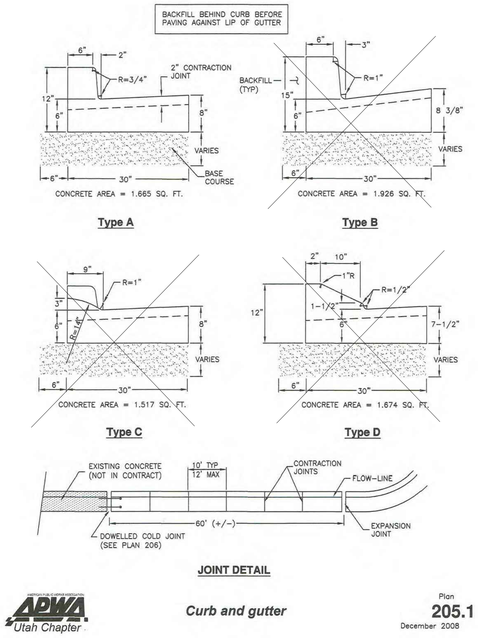
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CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT
LAST REVISION DATE:

NO.	DATE	DESCRIPTION
1	06/25/19	ADDENDUM 01

ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
STANDARD DETAILS

SHEET NUMBER
C -502

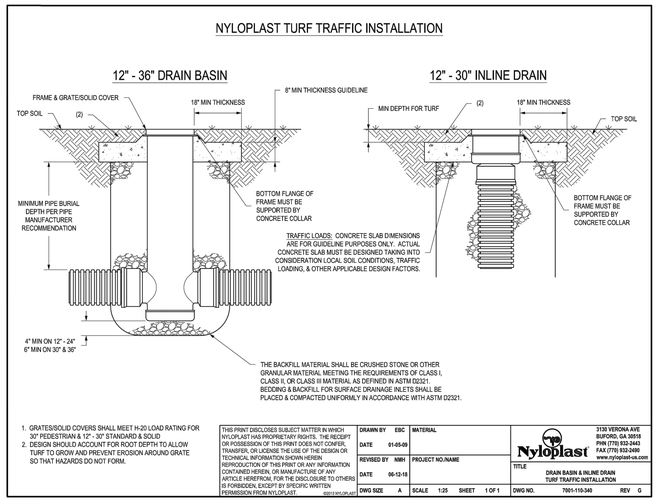


APWA Utah Chapter

Curb and gutter

Plan **205.1** December 2008

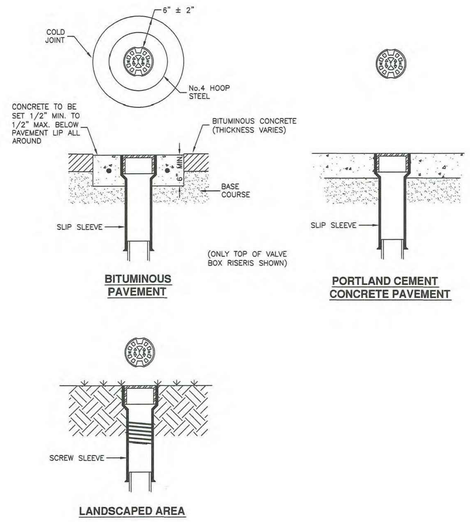
1 C503



NYLOPLAST JUNCTION BOX

NOT TO SCALE

2 C503

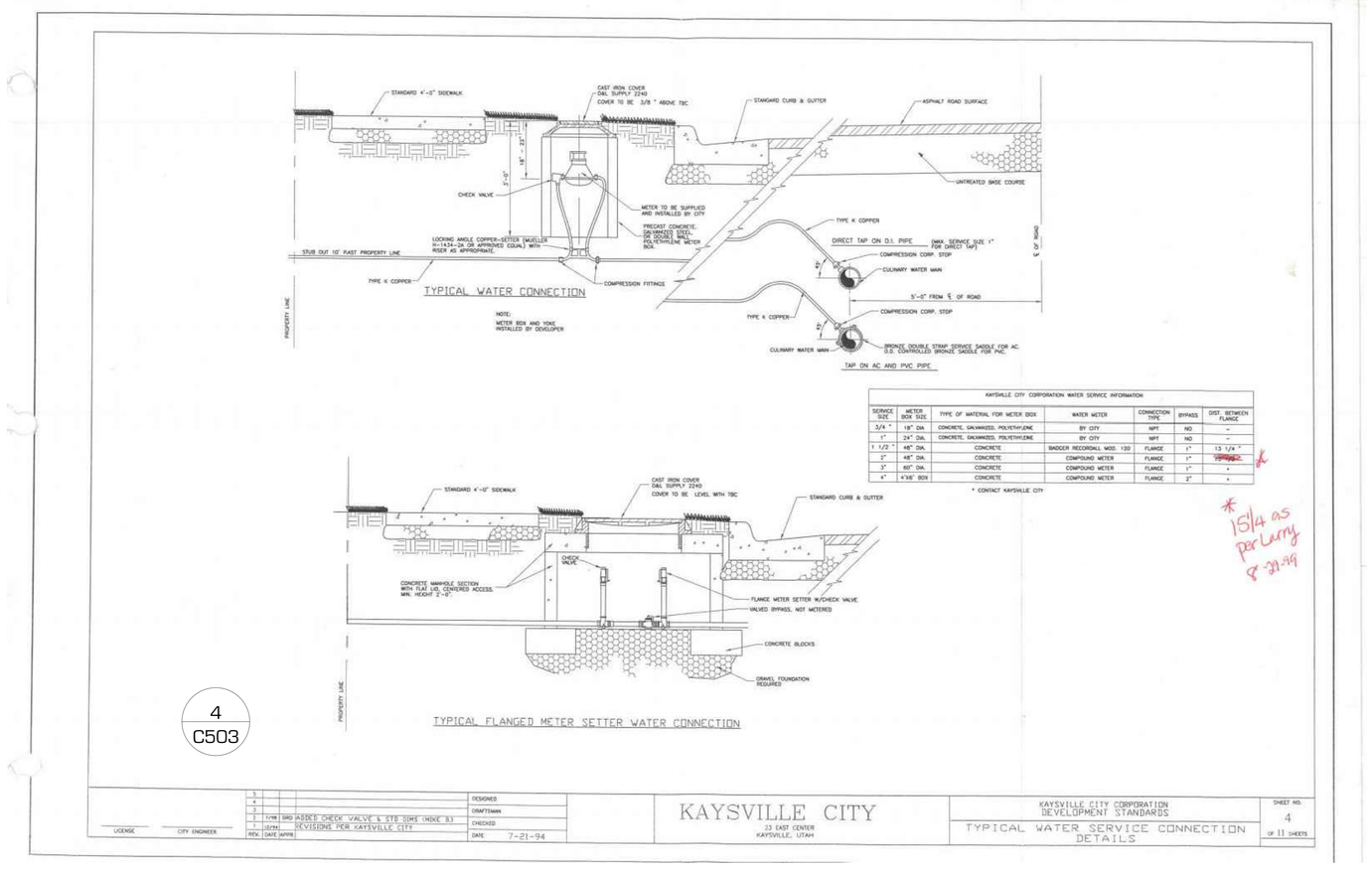


3 C503

APWA Utah Chapter

Cover collar for water valve box

Plan **574** August 2001



KAYSVILLE CITY CORPORATION WATER SERVICE INFORMATION

SERVICE SIZE	METER BOX SIZE	TYPE OF MATERIAL FOR METER BOX	WATER METER	CONNECTION TYPE	BYPASS	DIST. BETWEEN FLANGE
3/4 "	18" DIA	CONCRETE, GALVANIZED, POLYETHYLENE	BY CITY	NPT	NO	-
1"	24" DIA.	CONCRETE, GALVANIZED, POLYETHYLENE	BY CITY	NPT	NO	-
1 1/2 "	48" DIA.	CONCRETE	BADGER RECORDALL MOD. 120	FLANGE	1"	13 1/4 "
2"	48" DIA.	CONCRETE	COMPOUND METER	FLANGE	1"	13 1/4 "
3"	60" DIA.	CONCRETE	COMPOUND METER	FLANGE	1"	*
4"	4'x6' BOX	CONCRETE	COMPOUND METER	FLANGE	2"	*

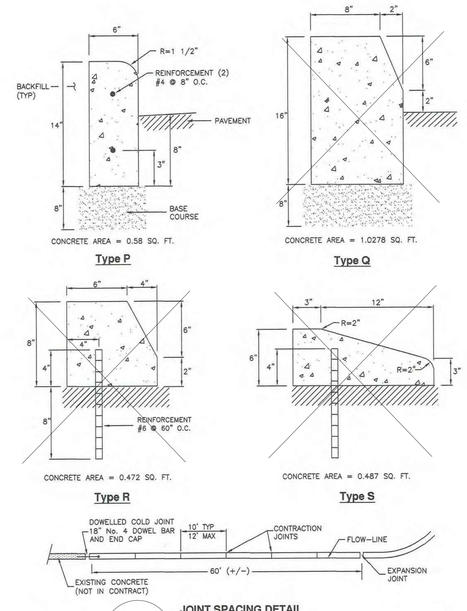
* CONTACT KAYSVILLE CITY

15 1/4 as per Larry 8-22-94

4 C503

5			DESIGNED	KAYSVILLE CITY	KAYSVILLE CITY CORPORATION DEVELOPMENT STANDARDS
4			DRAFTSMAN	23 EAST CENTER KAYSVILLE, UTAH	TYPICAL WATER SERVICE CONNECTION DETAILS
3	7/98	ENG ADDED CHECK VALVE & STD DIMS (INDEX 83)	CHECKED		SHEET NO. 4 OF 11 SHEETS
2	12/94	REVISIONS PER KAYSVILLE CITY	DATE 7-21-94		
REV.	DATE	APPR.			

LICENSE CITY ENGINEER



APWA Utah Chapter

5 C503

Curbs

Plan **209** November 2009

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6/14/19
No. 4857300-2202
JAMES T. TANCETT
STATE OF UTAH

MHTN PROJECT NO. PROJ #2018576

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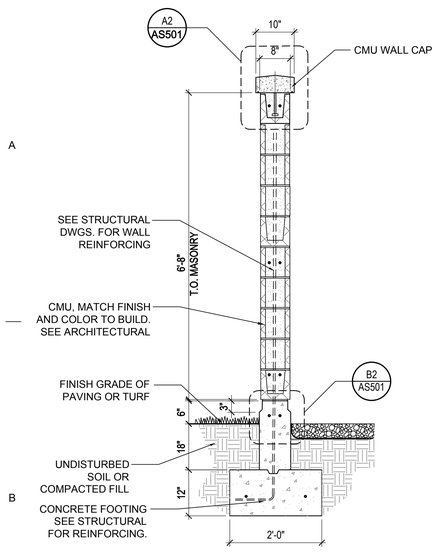
REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD. USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
AUGUST 28, 2019

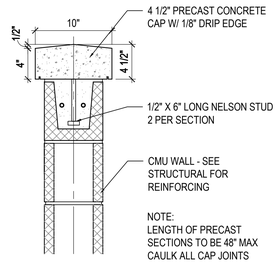
SHEET NAME
STANDARD DETAILS

SHEET NUMBER
C -503



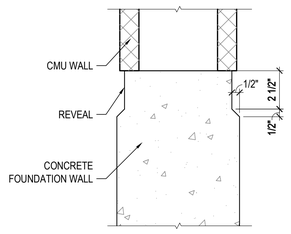
B1 CMU ENCLOSURE WALL

3/4" = 1'-0" P-KA-042263-02



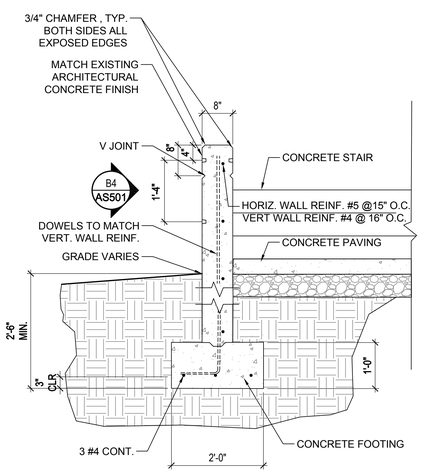
A2 10" PRECAST CONCRETE CAP

1 1/2" = 1'-0" P-KA-042263-01



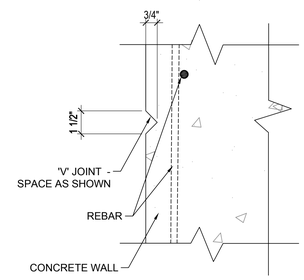
B2 CONCRETE REVEAL DETAIL

3" = 1'-0" P-KA-042263-04



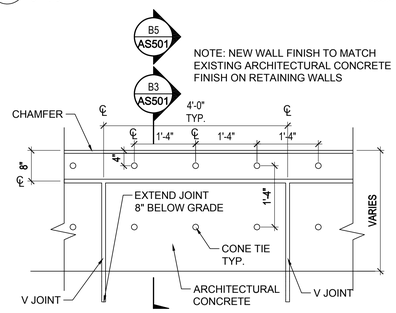
B3 CONCRETE RETAINING WALL

3/4" = 1'-0" P-KA-033366-01



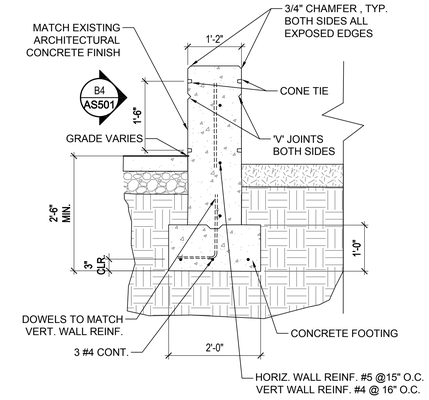
A4 CONCRETE WALL 'V' JOINT DETAIL

3" = 1'-0" P-KA-033366-14



B4 CONCRETE WALL ELEVATION

3/4" = 1'-0" P-KA-033366-15



B5 CONCRETE SEATING WALL

3/4" = 1'-0" P-KA-033373-01

C1 ORNAMENTAL IRON SWING GATE

1/4" = 1'-0" P-KA-323119-12

C3 GATE LOCK

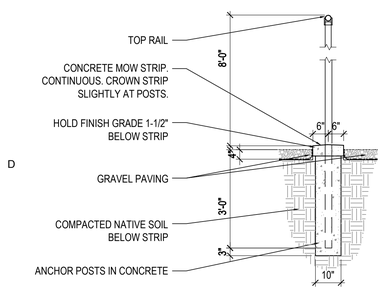
1 1/2" = 1'-0" P-KA-323119-13

C4 12" CONCRETE MOWSTRIP

1 1/2" = 1'-0" P-KA-329413-10

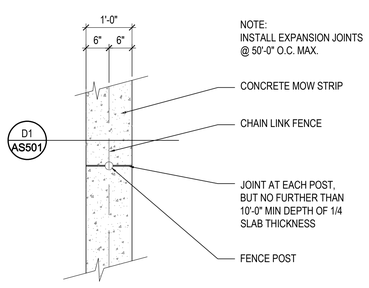
C5 GRAVEL PAVING

1" = 1'-0" P-KA-321516-04



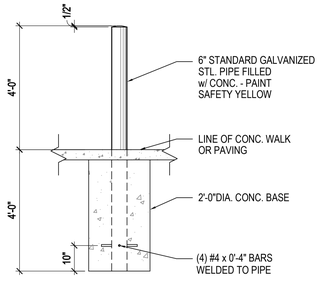
D1 FENCE W/ 12" CONC. CURB SECTION

1/2" = 1'-0" WSD-PL-323113-06



D2 FENCE W/ 12" CONC. CURB PLAN

3/4" = 1'-0" P-KA-323113-05



D3 6" STEEL PIPE BOLLARD

1/2" = 1'-0" P-KA-042263-11

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STATE OF UTAH
RANDALL C. BOUDRERO
10521 1-5301
LICENSED LANDSCAPE ARCHITECT

MHTN PROJECT NO. PROJ #2018576

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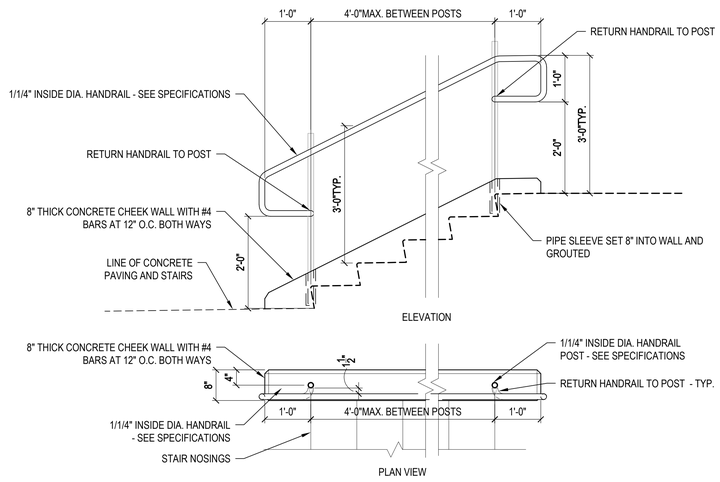
REVISIONS
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LAST REVISION DATE.

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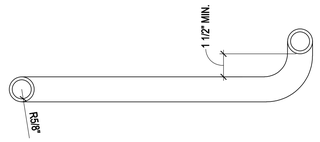
ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
SITE DETAILS

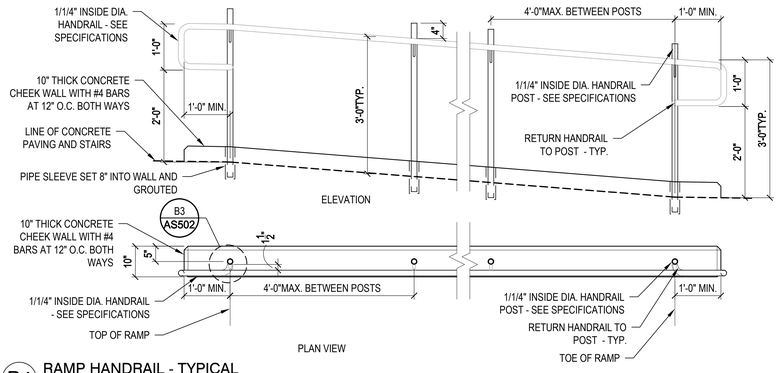
SHEET NUMBER
AS501



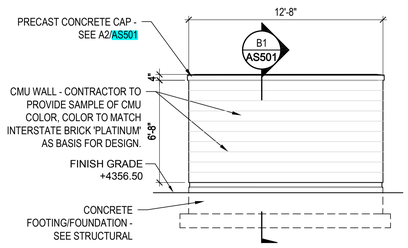
B1 STAIR HANDRAIL - TYPICAL
3/4" = 1'-0"



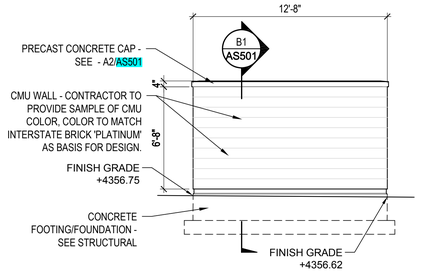
B3 HAND RAIL RETURN
3" = 1'-0"
U4-SI-055213-01



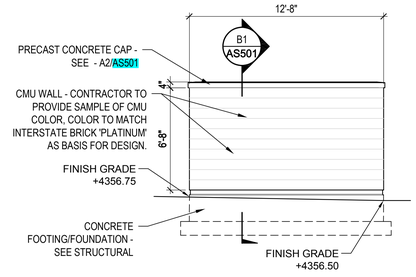
B4 RAMP HANDRAIL - TYPICAL
3/4" = 1'-0"
P-KA-055213-05



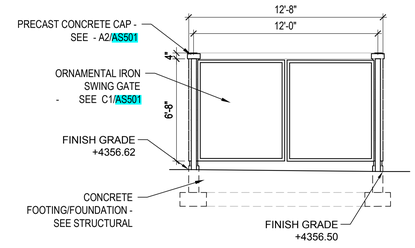
C1 TRANSFORMER ENCLOSURE-SOUTH WALL
1/4" = 1'-0"
P-KA-042263-23



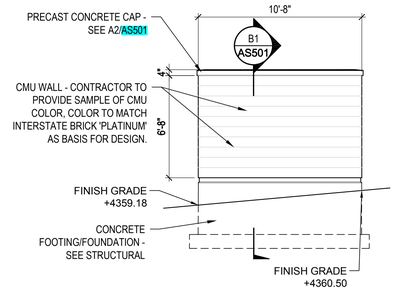
C2 TRANSFORMER ENCLOSURE- NORTH WALL
1/4" = 1'-0"
P-KA-042263-24



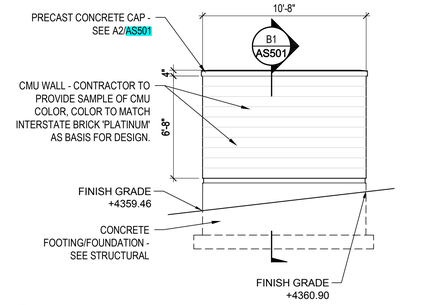
C3 TRANSFORMER ENCLOSURE- WEST WALL
1/4" = 1'-0"
P-KA-042263-25



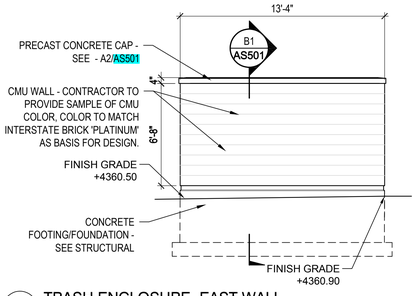
C4 TRANSFORMER ENCLOSURE- EAST FACE
1/4" = 1'-0"
P-KA-042263-26



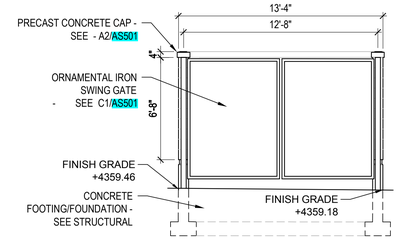
D1 TRASH ENCLOSURE-SOUTH WALL
1/4" = 1'-0"
P-KA-042263-27



D2 TRASH ENCLOSURE-NORTH WALL
1/4" = 1'-0"
P-KA-042263-28



D3 TRASH ENCLOSURE- EAST WALL
1/4" = 1'-0"
P-KA-042263-29



D4 TRASH ENCLOSURE- WEST FACE
1/4" = 1'-0"
P-KA-042263-30

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MHTN PROJECT NO. PROJ #2018576

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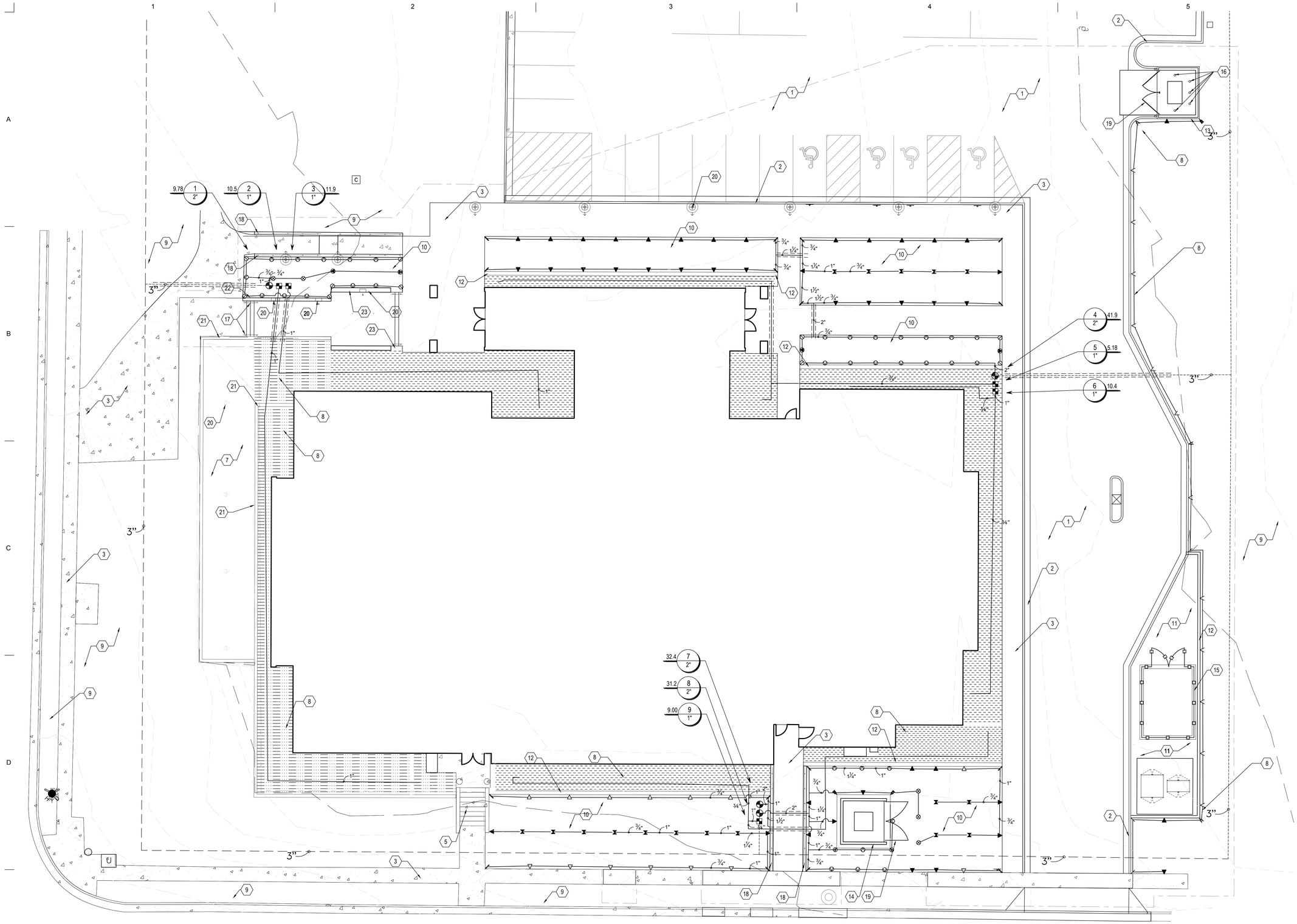
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CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
SITE DETAILS

SHEET NUMBER
AS502



REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION
1	ASPHALT PAVING
2	CONCRETE CURB AND GUTTER
3	CONCRETE PAVING
5	CONCRETE STAIRS

SYMBOL	DESCRIPTION
7	EXISTING LANDSCAPE AREA - NO WORK THIS ARE
8	REMODEL IRRIGATION SYSTEM THIS AREA AS REQUIRED

9	EXISTING TURF AREA
10	LANDSCAPE AREA
11	GRAVEL PAVING
12	CONCRETE MOWSTRIP
13	CMU TRASH ENCLOSURE
14	CMU TRANSFORMER ENCLOSURE
15	8`-0" CHAIN LINK FENCE
16	6" STEEL BOLLARD
17	STAIR HANDRAIL
18	RAMP HANDRAIL
19	ORNAMENTAL SWING GATE
20	SITE LIGHTING TYP.
21	EXISTING CONCRETE RETAINING WALL
22	NEW CONCRETE RETAINING WALL
23	CONCRETE SEAT WALL

NOTE: IRRIGATION AND LANDSCAPE PLANTING TO BE OWNER PROVIDED AND OWNER INSTALLED.

E1 IRRIGATION PLAN

0 5' 10' 20'

SCALE: 1" = 10'-0"

N

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STATE OF UTAH LICENSED LANDSCAPE ARCHITECT
RANDALL C. BOUDRERO
105211-5301
10/14/19

MHTN PROJECT NO. PROJ #2018576

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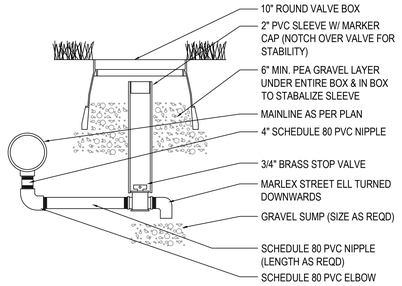
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SHEET NAME
IRRIGATION PLAN

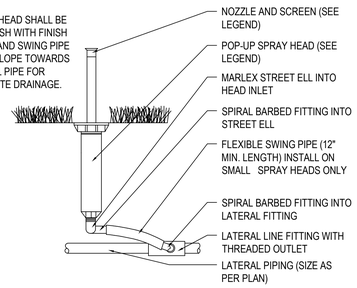
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LI101



A1 MAINLINE DRAIN

1" = 1" P-KA-328409-08

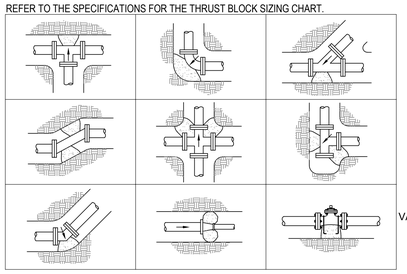
NOTE:
TOP OF HEAD SHALL BE SET FLUSH WITH FINISH GRADE AND SWING PIPE SHALL SLOPE TOWARDS LATERAL PIPE FOR COMPLETE DRAINAGE.



A2 POP-UP SPRAY HEAD

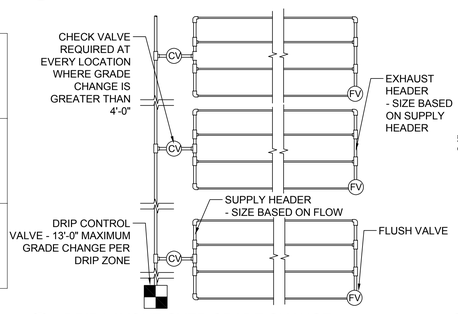
1" = 1" P-KA-328403-04

NOTE:
REFER TO THE SPECIFICATIONS FOR THE THRUST BLOCK SIZING CHART.



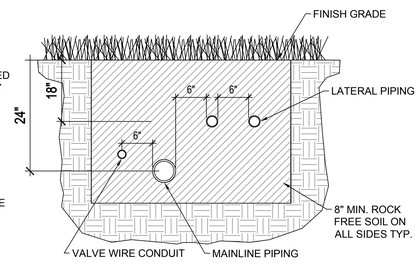
B1 THRUST BLOCKING

1" = 1" P-KA-328409-01



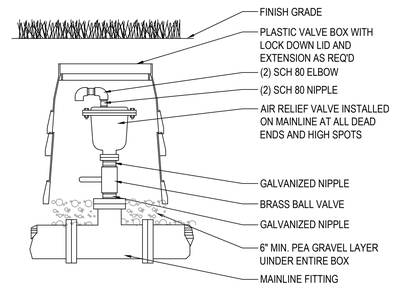
B2 DRIP LAYOUT OVER GRADE CHANGE

1/2" = 1'-0" P-KA-328413-04



B3 TRENCH DETAIL TYP.

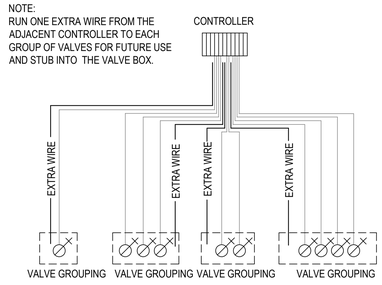
1" = 1'-0" P-KA-328409-03



C2 AIR RELIEF VALVE

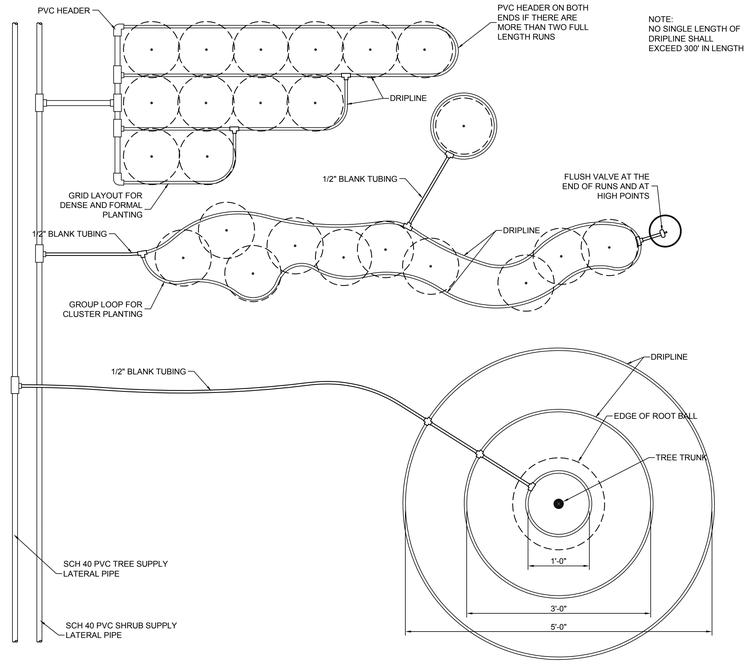
1" = 1" P-KA-328409-21

NOTE:
RUN ONE EXTRA WIRE FROM THE ADJACENT CONTROLLER TO EACH GROUP OF VALVES FOR FUTURE USE AND STUB INTO THE VALVE BOX.



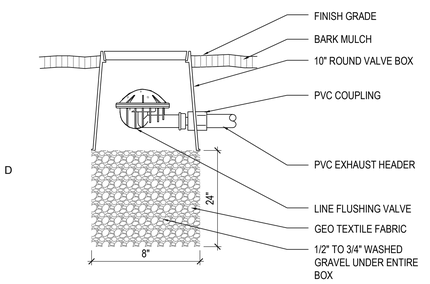
C3 CONTROL VALVE WIRING DIAGRAM

1" = 1" P-KA-328409-22



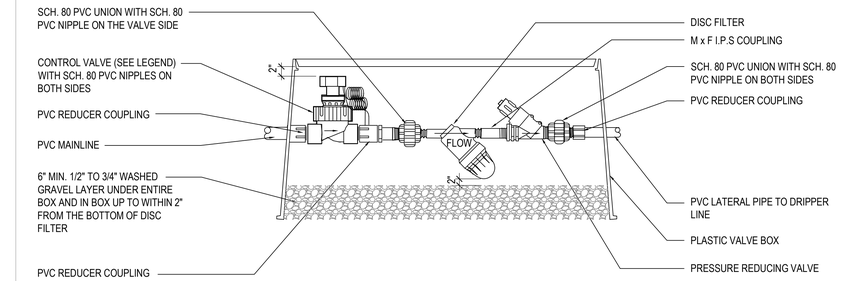
C4 DRIPLINE LAYOUT AT TREES AND SHRUBS

1" = 1'-0" P-KA-328413-16



D1 DRIP FLUSH VALVE

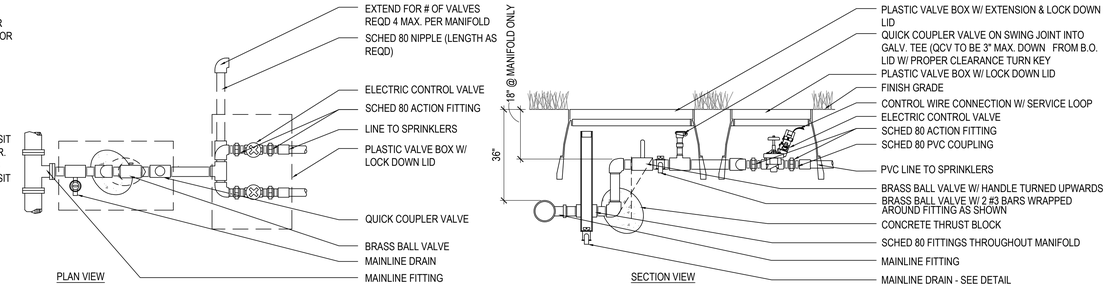
1" = 1" P-KA-328413-03



D2 CONTROL VALVE - DRIP SYSTEM

1" = 1" P-KA-328413-02

NOTES:
1. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF THE CONTROL VALVE MANIFOLD SO THAT IT COMPLETELY DRAINS.
2. INSTALL SCHEDULE 80 FITTINGS THROUGHOUT THE MANIFOLD.
3. ALL VALVE BOXES SHALL SIT ON 12" MIN. GRAVEL LAYER.
4. CUT ALL VALVE BOXES AS REQD SO BOXES DO NOT SIT ON PIPING.



E1 CONTROL VALVE MANIFOLD

1" = 1" P-KA-328406-07

NOTE: IRRIGATION AND LANDSCAPE PLANTING TO BE OWNER PROVIDED AND OWNER INSTALLED.

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MHTN PROJECT NO. PROJ #2018576

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SHEET NAME
IRRIGATION DETAILS

SHEET NUMBER
LI501

IRRIGATION NOTES

1. ALL MAIN LINE PIPE SHALL BE NEW CLASS 200 RING-TITE PVC PIPE WITH DUCTILE IRON DEEP SOCKET FITTINGS ON ALL TEES, ELBOWS AND 90'S. ALL SECONDARY LATERAL LINE PIPE SHALL BE SCHEDULE 40 PVC PIPE. FITTINGS ON ALL SECONDARY LATERAL LINES SHALL BE SCHEDULE 40 FITTINGS.
2. ALL GALVANIZED PIPE ON DETAILS SHALL BE NEW GALVANIZED STEEL PIPE.
3. LIVE SERVICE MAINS SHALL BE INSTALLED A MINIMUM OF 24" BELOW FINISH GRADE. BACKFILL TRENCH AROUND LIVE SERVICE MAIN WITH A MINIMUM OF 8" OF SAND. LATERAL LINES SHALL BE PLACED A MINIMUM OF 12" BELOW FINISH GRADE.
4. ALL MAIN LINES SHALL SLOPE TO DRAIN. IF FIELD CONDITIONS NECESSITATE ADDITIONAL DRAINS, THESE DRAINS SHALL BE INSTALLED FOR COMPLETE DRAINAGE OF THE ENTIRE MAINLINE. PROVIDE A 24" DIA. X 24" DEEP GRAVEL SUMP UNDER EACH DRAIN, WHICH DRAIN SHALL BE A MIN. OF 24" BELOW GRADE. ALL MANUAL DRAIN VALVES SHALL BE INSTALLED AS DETAILED ON THE DRAWINGS. INSTALL GEO-TEXTILE FABRIC AROUND EACH GRAVEL DRAIN.
5. THIS CONTRACTOR SHALL PROVIDE AND INSTALL AIR RELIEF VALVES ON THE MAINLINE AT ALL DEAD END RUNS AND AT ALL HIGH POINTS THROUGHOUT.
6. THE CONTRACTOR SHALL PRESSURE TEST THE MAINLINE AT 150 P.S.I. PRIOR TO INSTALLING ANY LATERAL LINES.
7. ALL FITTINGS IN THE MAIN CONNECTION ASSEMBLY SHALL BE FLANGED CAST IRON PIPE. ALL PVC FITTINGS SHALL BE ASTM 2466 FITTINGS.
8. IRRIGATION SYSTEM IS DESIGNED SO THAT THE SYSTEM CAN BE WINTERIZED USING COMPRESSED AIR. DO NOT INSTALL AUTOMATIC DRAINS ANYWHERE ON THE SYSTEM.
9. THIS CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF THE IRRIGATION SPRINKLER SYSTEM IN CAD FORMAT SHOWING EXACT MEASURED AND DIMENSIONED LOCATIONS OF ALL VALVES, WIRE SPLICES NOT IN A VALVE BOX AND DRAIN VALVES. TIE DIMENSIONS TO PERMANENT FEATURES SUCH AS STRUCTURES.
10. THIS DRAWING IS DIAGRAMMATIC ONLY AND IS INTENDED TO CONVEY THE IDEA OF FULL COVERAGE OF THE IRRIGATION SPRINKLER SYSTEM. PRINTS SHALL NOT BE SCALED. THE IRRIGATION SYSTEM CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION LAYOUT OF THE SYSTEM IN ACCORDANCE WITH THE DRAWINGS TO PROPORTIONALLY COVER A GIVEN AREA AS SHOWN. THE LAYOUT MAY BE MODIFIED IF NECESSARY TO OBTAIN COVERAGE TO SUIT THE MANUFACTURERS STANDARD HEADS INDICATED. DO NOT DECREASE THE NUMBER OF HEADS INDICATED UNLESS THIS IS ACCEPTABLE TO THE LANDSCAPE ARCHITECT. THE SYSTEM SHALL BE TESTED FOR COMPLETE COVERAGE AND ALL NECESSARY PROPER ADJUSTMENTS MADE TO GET FULL AND PROPER COVERAGE PRIOR TO ACCEPTANCE BY THE OWNER.
11. THE SYSTEM IS DESIGNED FOR 60 PSI OPERATING PRESSURE ON ALL LARGE HEADS AND 30 PSI ON ALL SMALL AREA HEADS UNLESS OTHERWISE NOTED.
12. ALL VALVE BOXES SHALL BE JUMBO SIZED PLASTIC BOXES, AMETEC OR EQUAL UNLESS OTHERWISE DETAILED.
13. ALL VALVES WILL BE LOCATED IN GROUPS 3' AWAY FROM WALKS AND CURBS-COORDINATE WITH MAINLINE LAYOUT. A DRAIN VALVE WITH SUMP SHALL BE PROVIDED AND INSTALLED AT EACH GROUP OF VALVES. A QUICK COUPLER SHALL BE PROVIDED AT EVERY VALVE MANIFOLD LOCATION. VALVES SHALL BE LOCATED 3'-0" AWAY FROM THE CURBS, WALKS OR MOWSTRIP.
14. ALL ISOLATION VALVES AT VALVE MANIFOLDS SHALL BE APOLLO 70-100 SERIES BALL VALVES.
15. A MAXIMUM OF FOUR VALVES SHALL BE INSTALLED ON EACH VALVE MANIFOLD OR MAIN LINE TEE. ALL MAINLINE MANIFOLD TEES SHALL HAVE A 4" MINIMUM OUTLET.
16. ALL HEADS SHALL BE SET PERPENDICULAR TO THE EXISTING GRADE SO AS TO PROVIDE PROPER COVERAGE.
17. ALL HEADS ADJACENT TO BLDG. SHALL BE INSTALLED A MIN. OF 12" AWAY FROM BLDG.
18. PROVIDE AND INSTALL ALL THE MANUFACTURER'S RECOMMENDED SURGE AND LIGHTNING PROTECTION EQUIPMENT ON ALL NECESSARY SYSTEM COMPONENTS.
19. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY SITE ITEMS DAMAGED DURING THE COURSE OF CONSTRUCTION.
20. WHERE TWO LENGTHS OR MORE OF MAINLINE RUN UNDER CONCRETE PAVING OR DOWN SLOPES 4:1 OR GREATER, INSTALL C-900 SDR 21 RING-TITE PIPE WITH JOINT RESTRAINTS. INSTALL THRUST BLOCKS ON ALL SLOPES AND AT ALL CHANGES IN DIRECTION AS PER B1/1LI501.
21. IRRIGATION PRODUCT SUBMITTALS SHALL INCLUDE PIPE SLEEVING AND CONDUIT.

IRRIGATION REMODEL NOTES

1. THE OWNER SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF THE EXISTING SPRINKLER IRRIGATION SYSTEM IN TERMS OF FLOW CAPACITY, VALVE WIRING, VALVE AND HEAD LAYOUT AND CONTROLLER CAPACITY.
2. THE OWNER SHALL BE RESPONSIBLE FOR THE COMPLETE REMODEL OF A SECTION OF THE EXISTING IRRIGATION SYSTEM AS SHOWN AND FOR PROVIDING FOR FULL COVERAGE OF ALL SYSTEM HEADS AND FOR THE FULL AND COMPLETE OPERATION OF BOTH THE NEW AND EXISTING SYSTEM IN THE AREAS BEING MODIFIED.
3. THIS CONTRACTOR SHALL COORDINATE ALL DEMOLITION WORK AND TIMES WITH THE OWNER.
4. MAINTAIN AND PROTECT AS MUCH OF THE EXISTING IRRIGATION SYSTEM AS POSSIBLE AND FEASIBLE AND STILL PROVIDE FOR FULL COVERAGE OF THE ENTIRE AREA. KEEP ALL LAWN AREA HEADS ON A SEPARATE CIRCUIT FROM SHRUB AREA HEADS.
5. THE EXISTING IRRIGATION SYSTEMS NOTED TO REMAIN IN USE SHALL BE PATCHED AND REPAIRED AS NECESSARY. MAINTAIN OPERATION OF THE EXISTING SYSTEM AS REQUIRED TO PROTECT EXISTING PLANT MATERIAL. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE OR DEATH OF EXISTING PLANT MATERIAL.
6. ALL SALVAGED HEADS SHALL BE RE-USED IN THE NEW SYSTEM, IF COMPATIBLE WITH NEW HEADS, OR RETURNED TO THE OWNER.
7. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE EXISTING VALVE WIRING AND RE-ROUTING AS SHOWN AND AS REQUIRED. MINIMIZE THE USE OF WIRE SPLICES. PROVIDE TEMPORARY WIRING AS REQUIRED TO KEEP THE EXISTING SYSTEM IN OPERATION.
8. REPAIR DAMAGE TO EXISTING IRRIGATION SYSTEM AND LAWN RESULTING FROM CONSTRUCTION OPERATIONS.

DRIP IRRIGATION NOTES

1. LAYOUT DRIP LINE SO THAT AS A MINIMUM ALL SHRUBS LIE BETWEEN TWO ROWS OF DRIPPER LINE AND SO THAT ROWS ARE 18" TO 24" APART TYPICAL. FIELD VERIFY SOIL, SUBSOIL AND SLOPE CONDITIONS AND MODIFY AS REQUIRED.
2. COORDINATE LAYOUT OF DRIP LINE WITH THE LAYOUT OF THE PLANT MATERIAL THROUGHOUT.
3. INSTALL AUTOMATIC DRAINS AT ALL LOW POINTS IN THE PVC SUPPLY AND EXHAUST HEADERS TO ENSURE COMPLETE DRAINAGE.
4. FLUSH OUT THE SYSTEM COMPLETELY PRIOR TO INSTALLING THE FLUSH VALVES TO PREVENT CLOGGING.
5. INSTALL PVC SUPPLY AND EXHAUST HEADERS A MIN. OF 6" BELOW FINISH GRADE TYPICAL THROUGHOUT.
6. INSTALL DRIPPER LINE 2" BELOW FINISH GRADE DIRECTLY BELOW BARK MULCH LAYER.
7. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AN ADEQUATE AMOUNT OF AIR RELIEF VALVES. EACH ZONE, SEPARATE AREA WITHIN ZONES, OR AREAS WITHIN ZONES SEPARATED BY GRADE VARIATIONS REQUIRE AIR RELIEF VALVES. INSTALL IN 2" PVC SLEEVES WITH MARKER CAP.
8. ALL PVC SUPPLY AND EXHAUST HEADERS SHALL BE A MINIMUM OF 1" IN SIZE.
9. INSTALL MULTI-OUTLET EMITTERS AS DETAILED AND AS PER MFGRS. RECOMMENDATIONS.
10. ALL FILTERING AND VALVING FOR BOTH THE DRIPPER LINE AND MULTI-OUTLET EMITTERS SHALL BE ACCOMODATED USING THE SAME VALVE/FILTER/ PRESSURE REGULTATING ASSEMBLY.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
Q T H F	RAIN BIRD RD-06-S-P30 5 SERIES MPR TURF SPRAY, 6.0" POP-UP, WITH 30 PSI IN-STEM PRESSURE REGULATION, AND SEAL-A-MATIC CHECK VALVE. 1/2" NPT FEMALE THREADED INLET.
Q P H F	RAIN BIRD RD-06-S-P30 8 SERIES MPR TURF SPRAY, 6.0" POP-UP, WITH 30 PSI IN-STEM PRESSURE REGULATION, AND SEAL-A-MATIC CHECK VALVE. 1/2" NPT FEMALE THREADED INLET.
Q T H F	RAIN BIRD RD-06-S-P30 10 SERIES MPR TURF SPRAY, 6.0" POP-UP, WITH 30 PSI IN-STEM PRESSURE REGULATION, AND SEAL-A-MATIC CHECK VALVE. 1/2" NPT FEMALE THREADED INLET.
Q T H TQ F	RAIN BIRD RD-06-S-P30 12 SERIES MPR TURF SPRAY, 6.0" POP-UP, WITH 30 PSI IN-STEM PRESSURE REGULATION, AND SEAL-A-MATIC CHECK VALVE. 1/2" NPT FEMALE THREADED INLET.
Q T H TQ F	RAIN BIRD RD-06-S-P30 15 SERIES MPR TURF SPRAY, 6.0" POP-UP, WITH 30 PSI IN-STEM PRESSURE REGULATION, AND SEAL-A-MATIC CHECK VALVE. 1/2" NPT FEMALE THREADED INLET.
08HE-VAN 10HE-VAN 12HE-VAN 15HE-VAN	RAIN BIRD RD-06-S-P30 ADJ TURF SPRAY, 6.0" POP-UP, WITH 30 PSI IN-STEM PRESSURE REGULATION, AND SEAL-A-MATIC CHECK VALVE. 1/2" NPT FEMALE THREADED INLET.

SYMBOL	MANUFACTURER/MODEL
	RAIN BIRD XCZF-100-PRF
	AREA TO RECEIVE DRIPLINE RAIN BIRD XFCV-06-12

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	RAIN BIRD PEB-PRS-D 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION. WITH PRESSURE REGULATOR MODULE.
C	EXISTING CONTROLER CONNECT ALL VALVE WIRES TO EXISITNG CONTROLLER LOCATED ON SOUTH OF LIBRARY.
———	IRRIGATION LATERAL LINE: PVC SCHEDULE 40
— — — —	IRRIGATION MAINLINE: EXISTING MAINLINE
——— – ———	IRRIGATION MAINLINE: PVC SCHEDULE 40
= = = = = = = =	PIPE SLEEVE: PVC CLASS 200 SDR 21 TYPICAL PIPE SLEEVE FOR IRRIGATION PIPE. PIPE SLEEVE SIZE SHALL ALLOW FOR IRRIGATION PIPING AND THEIR RELATED COUPLINGS TO EASILY SLIDE THROUGH SLEEVING MATERIAL. EXTEND SLEEVES 18 INCHES BEYOND EDGES OF PAVING OR CONSTRUCTION.

Valve Callout
Valve Number
Valve Flow
Valve Size

NOTE: IRRIGATION AND LANDSCAPE PLANTING TO BE OWNER PROVIDED AND OWNER INSTALLED.

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SEAL

STATE OF UTAH
RANDALL C. BOUDRERO
105211-5301
REGISTERED LANDSCAPE ARCHITECT
10/14/19

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

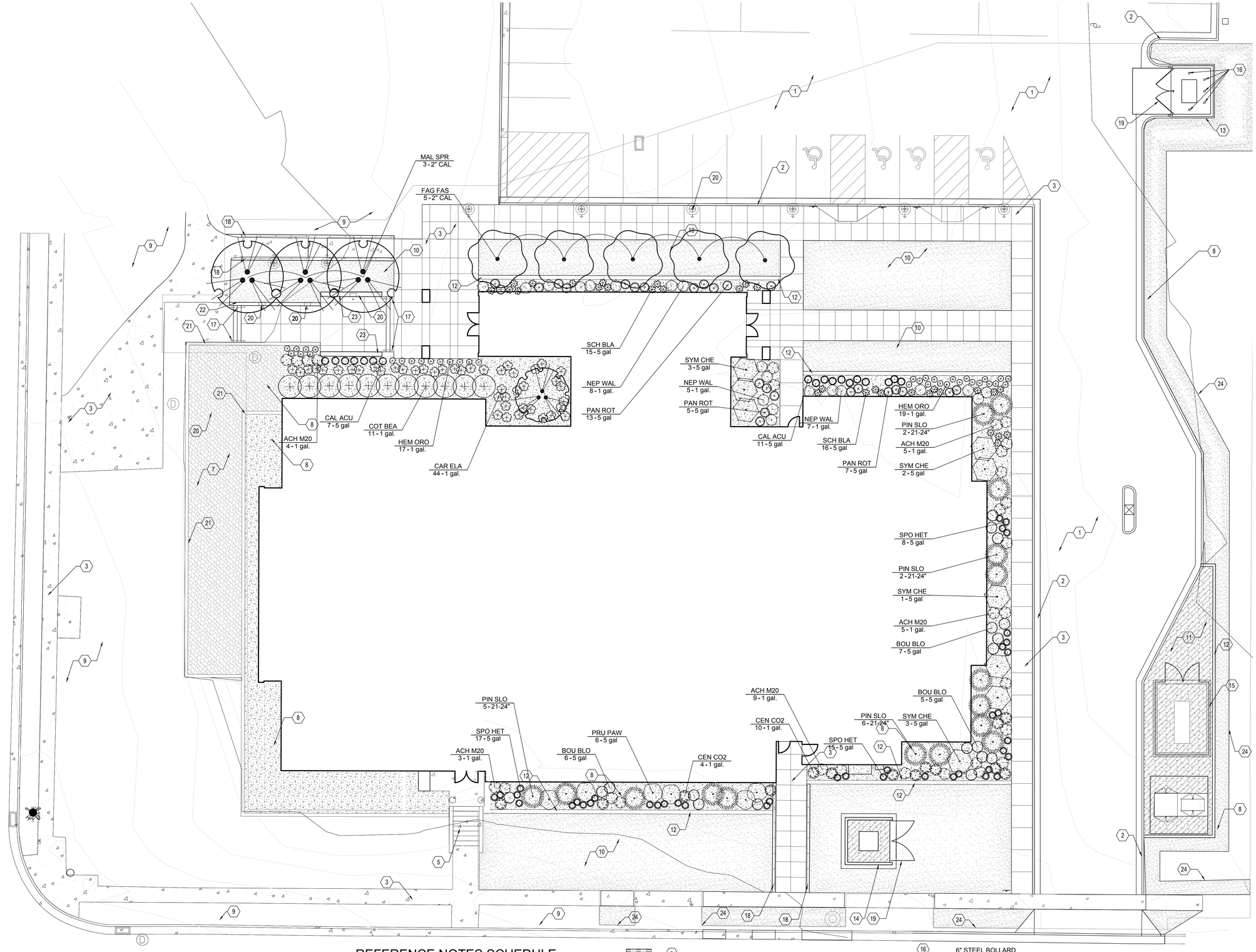
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CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
IRRIGATION NOTES AND SCHEDULE

SHEET NUMBER
LI502



NOTE: IRRIGATION AND LANDSCAPE PLANTING TO BE OWNER PROVIDED AND OWNER INSTALLED.

E1 PLANTING PLAN

0 5' 10' 20'

SCALE: 1" = 10'-0"

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	DETAIL
1	ASPHALT PAVING	
2	CONCRETE CURB AND GUTTER	
3	CONCRETE PAVING	
5	CONCRETE STAIRS	

SYMBOL	DESCRIPTION	DETAIL
7	EXISTING LANDSCAPE AREA - NO WORK THIS AREA	
8	REMODEL IRRIGATION SYSTEM THIS AREA AS REQUIRED	
9	EXISTING TURF AREA	
10	LANDSCAPE AREA	
11	GRAVEL PAVING	
12	CONCRETE MOWSTRIP	
13	CMU TRASH ENCLOSURE	
14	CMU TRANSFORMER ENCLOSURE	
15	8'-0" CHAIN LINK FENCE	
16	6" STEEL BOLLARD	
17	STAIR HANDRAIL	
18	RAMP HANDRAIL	
19	ORNAMENTAL SWING GATE	
20	SITE LIGHTING TYP.	
21	EXISTING CONCRETE RETAINING WALL	
22	NEW CONCRETE RETAINING WALL	
23	CONCRETE SEAT WALL	
24	APPROX EDGE OF NEW SOD	

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STATE OF UTAH LICENSED RANDALL C. BOUDRERO 105211-5301 LANDSCAPE ARCHITECT 2/14/19

MHTN PROJECT NO. PROJ #2018576

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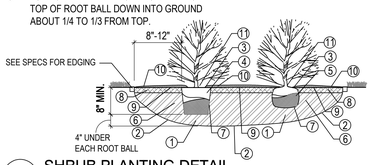
SHEET NAME
PLANTING PLAN

SHEET NUMBER
LP101

PLANTING NOTES

1. ALL PLANTS SHALL CONFORM TO THE MINIMUM STANDARDS OF HEIGHT, SIZE, CALIPER AND ETC. OF THE AMERICAN ASSOCIATIONS OF NURSERYMEN "AMERICAN STANDARDS FOR NURSERY STOCK".
2. THIS CONTRACTOR SHALL SPREAD TOPSOIL TO A DEPTH OF 6" IN ALL LAWN PLANTING AREAS AND 12" IN ALL SHRUB AND PERENNIAL BEDS.
3. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING FROM THE SITE ALL SOIL EXCAVATED FROM TREE PITS.
4. ALL MOWSTRIPS ARE TO BE INSTALLED PRIOR TO THE INSTALLATION OF THE IRRIGATION SYSTEM AND THE LANDSCAPE PLANTING.
5. INSTALL STONE MULCH IN ALL SHRUB PLANTING BEDS AFTER PLANT MATERIAL INSTALLATION.
6. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING THE REQUIRED AMOUNT OF TOPSOIL TO COMPLETE THE PROJECT. NEW TOPSOIL SHALL MATCH QUALITY AND TEXTURE OF THE EXISTING TOPSOIL ON SITE.

1. EXCAVATE ENTIRE PLANTING BED TO WIDTH AND DEPTH SHOWN. MINIMUM PLANTER BED IS 8" OR ROOT BALL DEPTH PLUS 4". PREPARE SOIL BY ADDING ORGANIC MATTER EQUAL TO 5% DRY WEIGHT OF SOIL. MINIMUM AREA OF PREPARED SOIL FOR SHRUBS IS 4 X ROOT BALL WIDTH.
2. ROUGHEN SIDES AND BOTTOM OF SHRUB PLANTING BED.
3. PLACE SHRUB IN PLANTING HOLE. SET TOP OF ROOT BALL FLUSH WITH FINISH GRADE.
4. FOR CONTAINER GROWN MATERIAL: REMOVE FROM CONTAINER, USE FINGERS OR SMALL TOOL TO GENTLY PULL THE ROOTS OUT OF THE OUTER LAYER OF POTTING SOIL. CUT OR PULL APART ANY ROOTS THAT CIRCLE THE PERIMETER OF THE CONTAINER.
5. FOR B&B MATERIAL: FOLD BURLAP FROM TOP OF ROOT BALL DOWN INTO GROUND ABOUT 1/4 TO 1/3 FROM TOP.
6. COMPACT SOIL UNDER AND AROUND ROOT BALL TO ELIMINATE AIR POCKETS INCORPORATE COMMERCIALLY PREPARED MYCORRHIZA SPORES WHEN SPECIFIED INTO THE SOIL IMMEDIATELY AROUND THE ROOT BALL.
7. INCORPORATE COMMERCIALLY PREPARED MYCORRHIZA SPORES WHEN SPECIFIED INTO THE SOIL IMMEDIATELY AROUND THE ROOT BALL.
8. APPLY COMPOST 3" DEEP AND TILL INTO TOP 6" OF PREPARED SOIL.
9. LAY DOWN WEED FABRIC
10. MULCH ENTIRE BED 3" DEEP. DO NOT PLACE MULCH AGAINST BASE OF PLANT.
11. THOROUGHLY SOAK THE ROOT BALL AND PREPARED SOIL TO MAINTAIN OPTIMUM SOIL MOISTURE UNTIL PLANTS ARE ESTABLISHED.



E1 SHRUB PLANTING DETAIL
1" = 1'-0" P-KA-329333-02

NOTE: IRRIGATION AND LANDSCAPE PLANTING TO BE OWNER PROVIDED AND OWNER INSTALLED

TIE TREES TO 2"x2"x8' STAKES AT THE LOWEST POINT NECESSARY TO KEEP MAIN TRUNK UPRIGHT. PLACE STAKES AT EDGE OF ROOTBALL AND DRIVE A MIN. OF 12" INTO UNDISTURBED SOIL. TIE WITH #10 WIRE THRU 3/4" RUBBER HOSE (2 REQ'D)

PLANTING MIX SHALL BE WELL MIXED IN THE FOLLOWING RATIO:
4 PARTS APPROVED TOPSOIL, 1 PART SOIL-AID OR PEAT MOSS AND A SLOW RELEASE FERTILIZER AS PER MANUF. RECOMMENDATIONS.

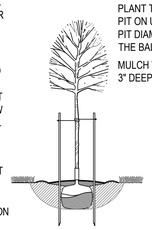
ROUGHEN THE SIDES OF THE PIT IF REQUIRED FOR MOISTURE AND ROOT PENETRATION.

INSTALL TREE WRAP AND PROTECTION SLEEVE ON TRUNK AS PER MANUF.

CUT A 24" DIAMETER CIRCLE IN THE SOD AROUND THE TRUNK OF THE TREE FOR WATER BASIN.

PLANT TREE IN A SHALLOW PIT ON UNDISTURBED SOIL. PIT DIAMETER SHALL BE 4X THE BALL DIAMETER.

MULCH WATER BASIN 3" DEEP.



E2 TREE PLANTING DETAIL
1" = 1'-0" P-KA-329346-01

PLANT SCHEDULE

TREES	CODE	BOTANICAL NAME	COMMON NAME	CAL.	REMARKS
	ACE PAL	ACER PALMATUM	JAPANESE MAPLE	2" CAL	5` BRANCHING HEIGHT
	FAG FAS	FAGUS SYLVATICA `FASTIGIATA`	EUROPEAN BEECH	2" CAL	5` BRANCHING HEIGHT
	MAL SPR	MALUS `SPRING SNOW`	SPRING SNOW CRAB APPLE	2" CAL	5` BRANCHING HEIGHT
SHRUBS	**CODE**	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**REMARKS**
	ACH M20	ACHILLEA MILLEFOLIUM `MOONSHINE`	YARROW	1 GAL.	
	BOU BLO	BOUTELOUA GRACILIS `BLONDE AMBITION`	BLUE GRAMA	5 GAL	
	CAL ACU	CALAMAGROSTIS ACUTIFOLIA `KARL FOERSTER`	FOERSTER`S REED GRASS	5 GAL	
	CAR ELA	CAREX ELATA `BOWLES GOLDEN`	BOWLES GOLDEN SEDGE	1 GAL.	
	CEN CO2	CENTRANTHUS RUBER `COCCINEUS`	JUPITER`S BEARD	1 GAL.	
	COT BEA	COTONEASTER DAMMERI `CORAL BEAUTY`	BEARBERRY COTONEASTER	1 GAL.	
	HEM ORO	HEMEROCALLIS X `STELLA DE ORO`	STELLA DE ORO DAYLILY	1 GAL.	
	NEP WAL	NEPETA X FAASSENII `WALKERS LOW`	WALKERS LOW CATMINT	1 GAL.	
	PAN ROT	PANICUM VIRGATUM `ROTSTRAHLBUSCH`	ROTSTRAHLBUSCH SWITCH GRASS	5 GAL	
	PIN SLO	PINUS MUGO `SLOWMOUND`	MUGO PINE	21-24"	B & B
	PRU PAW	PRUNUS BESSEYI `PAWNEE BUTTES`	SAND CHERRY	5 GAL	
	SCH BLA	SCHIZACHYRIUM SCOPARIUM `BLAZE`	BLAZE LITTLE BLUESTEM	5 GAL	
	SPO HET	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	5 GAL	
	SYM CHE	SYMPHORICARPOS X CHENAULTII `HANCOCK`	HANCOCK CORALBERRY	5 GAL	
GROUND COVERS	**BOTANICAL NAME**	**COMMON NAME**	**CONT**	**SPACING**	**REMARKS**
	LAWN	SOD	SOD		

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STATE OF UTAH
RANDALL C. BOUDRERO
105211-5301
LICENSED LANDSCAPE ARCHITECT

MHTN PROJECT NO. PROJ #2018576

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ISSUE
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28 AUGUST 2019

SHEET NAME
PLANTING NOTES AND SCHEDULE

SHEET NUMBER
LP501

1. Design Criteria

1.1. Governing Building Code ..... 2015 International Building Code (IBC)
A. Risk Category II

1.2. Floor Live Loading
A. Interior Slab on Grade ..... 100 psf Live Load
B. Mechanical Mezzanine ..... 75 psf Live Load
C. Office Storage ..... 40 psf Live Load

1.3. Roof Live Loading
A. Roof Live Load ..... 20 psf
B. Roof Snow Load ..... 30 psf + Drift per IBC
1. Ground Snow Load, P_g ..... 43 psf
2. Snow Exposure Factor, Ce 1.0
3. Importance Factor, I_s 1.0
4. Thermal Factor, Ct 1.0

1.4. Earthquake
A. Seismic Design Category ..... D
B. Spectral Response Accelerations
S_S = 1.381 g S_{DS} = 0.921 g
S_1 = 0.501 g S_{D1} = 0.501 g
C. Soil Site Class ..... D
F_a = 1.0 F_v = 1.5
D. Basic Seismic-Force-Resisting System ..... Wood Sheathed Shearwall
R = 6.5 Ω_0 = 3.0 C_d = 4.0
E. Importance Factor, I_E 1.0
F. Redundancy Factor, ρ 1.0
G. Analysis Procedure ..... Equivalent Lateral Force (Static)
H. Design Base Shear ..... 155 kips

1.5. Wind
A. Ultimate Design Wind Speed V_{ult} ..... 150 mph (Kaysville City)
B. Exposure C
C. Internal Pressure Coefficient, GC_{pi} 0.18
D. Topographic Factor, K_{zt} 1.0
E. Components and Cladding Design Pressure

Design Wind Pressure (psf)

Location		Tributary Area (ft²)			
		< 10	50	100	> 500
Walls	Within 8'-0" of building corner	54	46	42	33
	All other areas	44	40	38	34
Roof	Within 8'-0" of building corner	64	53	47	47
	Within 8'-0" of building edge	64	53	47	47
	All other areas	37	35	34	34

1.6. Foundation
A. Subsurface Conditions:
Soils report and log of borings was obtained by the Owner for the Engineer's use in the design of the foundation, and is not a part of the Contract Documents. This report and log of borings is available for the Contractor's information, but is not a warranty of the subsurface conditions. The Contractor may use the report at his own risk.
B. Soils Report by Western Technologies, dated November 12, 2010.
C. Soil Bearing Pressure: ..... 2500 psf, on 3'-0" of Compacted Fill,
D. Lateral Soil Pressure Fluid Equivalent Density.
1. Active: ..... 35 pcf (retaining walls)
2. At Rest: ..... 60 pcf (rigid foundation walls)
3. Passive: ..... 300 pcf
4. Increase for Seismic: ..... 20 pcf
E. Coefficient of Friction: 0.35

1.7. Classification for Fire Rated Construction
A. For the purpose of determining fire-resistive assemblies, open-web steel framing members shall be considered unrestrained. All other steel floor and roof framing members shall be considered restrained.

2. Earthwork

2.1. Clearing: The entire building area shall be scraped to remove the top 4 inches of soil, including all vegetation and debris.

2.2. Near surface clayey and sandy soils: The depth of this material is approximately 1'-6". Do not place any footing on this material. Remove all fill material from below footings and replace it with compacted structural fill. Remove an area that is 2'-0" beyond the width of the footing and a depth that is equal to 3'-0".

2.3. Proof rolling: The natural undisturbed soil below all footings shall be proof rolled prior to placing concrete. Remove all soft spots and replace with compacted structural fill.

2.4. Compacted structural fill: All fill material shall be a well-graded granular material with a maximum size less than 4 inches and with not more than 10 percent passing a No. 200 sieve. It shall be compacted to 95 percent of the maximum laboratory density as determined by ASTM D1557. All fill shall be tested (See Specifications and the Quality Assurance section of the GSN).

2.5. A geotechnical engineer should be retained to provide observation and testing services during excavation, earthwork operations, foundation and construction phase of the project. Observations of footing excavations should be performed prior to placement of reinforcing and concrete to confirm satisfactory bearing materials are present.

3. Concrete

3.1. Materials shall comply with the Standards specified in American Concrete Institute (ACI) 318-14, "Building Code Requirements for Structural Concrete."
A. Concrete mix design requirements shall be as follows:

Location	f'c at 28 days (psi)	Max W/C Ratio	Air Content (%)	Max Aggregate Size	Exposure Classes*		
					F	S	C
Footings	4000	0.50	-	1"	F0	S1	C0
Interior Slabs on Grade	4000	0.45	-	1"	F0	S1	C0
Lightweight concrete over plywood	3000	0.45	6	½"	F0	S0	C0
Exterior Walls	4500	0.45	6	¾"	F1	S1	C1
Walls	4000	0.45	-	¾"	F0	S1	C0
Exterior Concrete Piers	4500	0.45	6	¾"	F1	S1	C1
All other site cast concrete	4500	0.45	6	1"	F1	S1	C1

* Exposure Classes are per ACI 318, Section 19.13.1.1, where F, S and C are exposure categories for freezing and thawing, sulfate, and corrosion protection of reinforcement, respectively.

B. Cementitious Materials:
1. Portland Cement (ASTM C150):
a. Type I or II for exposure class S0.
b. Type II or V for exposure class S1
c. Type V for exposure class S2 and S3.
2. Fly Ash (ASTM C618, Class C or F): maximum fly ash content as a percentage of total weight of cementitious materials shall be 25 percent.
C. Concrete Density (Maximum Air Dry Weight):
1. Normal weight concrete shall be approximately 145 to 155 pounds per cubic foot. Aggregate shall be ASTM C33.
D. Steel Reinforcement:
1. ASTM A615 Grade 60, fy = 60,000 psi min. unless noted otherwise.
E. Wire Reinforcement:
1. Welded wire fabric (WWF): ASTM A1064.
F. Fiber Reinforcement:
1. Synthetic Micro-Fiber: fibrillated polypropylene micro-fibers engineered and designed for use in concrete, complying with ASTM C 1116, 1/2 to 1-1/2 inches long. Add to concrete at a dosage rate of 1.5 lb/cu yd where indicated.
a. Do not burn off exposed fibers.
G. Admixtures:
1. Air-entraining admixtures, comply with ASTM C 260 (when used).
a. Tolerance on air content as delivered shall be +/- 1.5%.
b. When air content of a trowel finished floor slab exceeds 3%, there is an increased risk for delaminations and blistering to occur. When this situation is present, the contractor shall pay special attention to the finishing procedures to help minimize such risks. Refer to ACI 302.1R-15 "Guide for Concrete Floor and Slab Construction" for proper finishing guidelines.
2. The use of super plasticizers and water reducers is allowed, but not required.
3. Calcium chloride or admixtures containing calcium chloride shall not be added to the concrete mix.
H. Chloride Ion: Maximum water soluble chloride ion concentrations in hardened concrete at age between 28 and 42 days contributed from the ingredients including water, aggregates, cementitious materials, and admixtures shall not exceed a maximum, by weight of cement, of 1.00% for concrete with exposure class C0, 0.30% for concrete with exposure class C1, 0.15% for concrete with exposure class C2, and 0.06% for all prestressed concrete.
I. Slump Limit: 4 inches, maximum for all concrete prior to the addition of plasticizers and water reducing admixtures. The concrete supplier shall indicate the final slump of each concrete mix in the submitted mix design.
J. Shrinkage Limit: Interior slabs on grade shall have a drying shrinkage limit of 0.040 percent tested in accordance with ASTM C157. Drying shrinkage test results shall be submitted with mix designs.
K. Only one grade or type of concrete shall be poured on the site at any given time.

3.2. Formwork shall comply with ACI Standards Publication 347 and the project specifications. The contractor shall be responsible for the design, detailing, care, placement and removal of the formwork and shores.

3.3. Concrete cover requirements for deformed bar reinforcing steel shall comply with ACI 318, "Building Code Requirements for Structural Concrete".
A. Cast-in-place Concrete: Specified Cover
1. Cast against and permanently exposed to earth: ..... 3"
2. Formed concrete exposed to earth or weather:
#6 thru #18 bars ..... 2"
#5 and smaller bars ..... 1.1/2"
3. Concrete not exposed to weather or in contact with ground:
Slabs, Walls; #11 bars and smaller ..... 3/4"
Beams, Columns: primary reinforcement, ties, stirrups, spirals ..... 1.1/2"

3.4. Construction Joints and Control Joints:
A. Provide a surface intentionally roughened to ¼" amplitude in all wall footings. A continuous keyway shall not be used for concrete shear wall to footing connections, unless specifically indicated. Refer to project plans, schedules and details for the shear wall to footing connection requirements.
B. All horizontal and vertical construction joints shall have a surface intentionally roughened to ¼" amplitude. A continuous 2 X 4 keyway may be used on elements other than shear walls.
C. Provide reinforcement dowels to match the member reinforcement across the joint, unless noted otherwise. For dowels across construction joints and wall to footing connections of concrete shear walls, refer to specific project plans, schedules, and details.
D. Construction joints in suspended concrete pours shall be made at the center of spans.
E. Slabs on grade shall have construction or control joints spaced not to exceed 30 times the slab thickness in any direction.
F. Control joints shall be installed in slabs on grade so the length to width ratio of the slab is no more than 1.25:1. Control joints shall be completed within 12 hours of concrete placement. See typical details for joint configuration.
G. Control joints in visually exposed walls, unless noted otherwise: (Joints shall line up with masonry and architectural joints, see drawings.)
1. Vertical control joints at 10'-0" on center.
2. Reinforcing shall be continuous through control and construction joints, unless noted otherwise.
3. Control joints in concrete foundation walls shall line up with masonry control joints.

3.5. Detailing: All reinforcing, including welded wire fabric, shall be detailed, bolstered & supported to comply with ACI 315, "Details and Detailing of Concrete Reinforcement" and the Concrete Reinforcing Steel Institute (CRSI) recommendations. Reinforcing bars shall not be welded unless specifically shown on drawings.
A. Lap splice lengths shall be detailed to comply with the CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPLICE SCHEDULE.
B. All mechanical splices shall have the capacity to develop at least 1.25fy of the bar in tension or compression. Type 2 couplers have the capacity to develop the full tension capacity of the bar. Type 1 couplers shall not be used in moment frames and shear wall jamb columns. Mechanical splices shall have a current ICC or IAPMO code evaluation report; "Lenton" (IAPMO No. 0129), "Taper-Lock" (IAPMO No. 0319) or "SAS Stressteel" (ICC ESR-1163), "Bar-Lock" (ICC ESR-2495) or approved equivalent may be used. Mechanical couplers on adjacent bars shall be staggered a minimum of 24" apart along the longitudinal axis of the reinforcing bars.
C. All embedded elements and dowels shall be securely tied to formwork or to adjacent reinforcing prior to the placement of concrete.
D. Use chairs or other support devices recommended by CRSI to support and tie reinforcement bars and welded wire fabric prior to placing concrete. Welded wire fabric shall be continuously supported at 36" o.c. maximum.
E. See typical details for reinforcing at wall intersections and ends, reinforcing around wall openings and suspended slab openings, vertical wall dowels, concrete column ties and splices in vertical column reinforcing.
F. See typical details for column cross-ties. The 90-degree hooks of two successive crossties engaging the same longitudinal bars shall be alternated end for end.
G. Contractor shall coordinate placement of all openings, curbs, dowels, sleeves, conduits, bolts, inserts and other embedded items prior to concrete placement.
H. All reinforcement shall be bent cold, and shall be bent only once at the same location. All reinforcement shall be shop bent, unless otherwise permitted by the engineer.

3.6. Minimum Reinforcing: Wall reinforcing shall be as follows, unless noted otherwise:

Wall Thickness	Horizontal Reinforcing	Vertical Reinforcing
6"	#4 @ 13" o.c.	#4 @ 18" o.c.
8"	#5 @ 15" o.c.	#4 @ 16" o.c.
10"	#5 @ 12" o.c.	#4 @ 13" o.c.
12"	#4 @ 13" o.c. Each Face	#4 @ 18" o.c. Each Face
Others	0.25% of Wall Area	0.15% of Wall Area

Spacing shall exceed neither three times the wall thickness nor 18". In addition to the above reinforcing, 2 - #5 x continuous horizontal bars shall be placed at the bottom of the wall (near the footing) and at each floor level, at the roof level and at the top of wall.

3.7. No aluminum conduit or product containing aluminum or any other material injurious to concrete shall be embedded in concrete.

3.8. Unless otherwise noted, all slabs on grade shall be 4" thick.

4. Masonry

4.1. Materials shall comply with the Standards specified in TMS 402-13/ACI 530-13/ASCE 5-13 and TMS 602-13/ACI 530.1-13/ASCE 6-13, "Building Code Requirements and Specification for Masonry Structures."
A. Materials, unless noted otherwise:
1. Concrete Masonry Units: ASTM C 90, Medium Weight.
2. Solid Clay Units: ASTM C216, Grade SW.
3. Material Strength: The Prism Test Method or the Unit Strength Method according to TMS 602-13/ACI 530.1-13/ASCE 6-13 Section 1.4B may be used to determine the compressive strength of masonry assemblies. The contractor shall select the desired method and meet the required material strengths as follows:
a. Prism Test Method. TMS 602-13/ACI 530.1-13/ASCE 6-13 Section 1.4B.3:
1) Concrete Masonry Unit Assembly, f'm = 2000 psi.
2) Hollow Clay Unit Assembly, f'm = 2500 psi.
3) Solid Clay Unit Assembly f'm = 1500 psi.
b. Unit Strength Method. TMS 602-13/ACI 530.1-13/ASCE 6-13 Section 1.4B.2:
1) Concrete Masonry Units, minimum unit strength of 2000 psi average or better. (f'm = 2000 psi)
2) Hollow Clay Units, minimum unit strength of 6600 psi average or better. (f'm = 2500 psi)
3) Solid Clay Units, minimum unit strength of 3350 psi average or better. (f'm = 1500 psi)
4. Mortar: Use Type "S" according to ASTM C270, proportion specification. Admixtures shall not be added to the mortar mix.
5. Grout: For masonry assemblies with f'm = 2,000 psi or less conform to ASTM C476, proportion specification. Grout that does not meet the requirements of ASTM C476 proportion specification or that is used inqt masonry assemblies with f'm > 2,000 psi shall meet the following requirements: Meet the material requirements of ASTM C476, obtain a minimum compressive strength of f'm or 2,000 psi, whichever is larger, at 28 days tested according to ASTM C1019, and a slump of 8 in. to 11 in. as determined by ASTM C143.
a. Self-Consolidating Grout: Conform to the material requirements of ASTM C476, obtain a minimum compressive strength of f'm or 2,000 psi, whichever is larger, at 28 days tested according to ASTM C1019, obtain a slump flow of 24 in. to 30 in. as determined by ASTM C1611, and shall have a Visual Stability Index less than or equal to 1 as determined in accordance with ASTM C1611 Appendix X.1. Field addition of admixtures is not permitted.
6. Reinforcing: Grade 60 reinforcing steel shall comply with ASTM A615. Wire joint reinforcing shall comply with ASTM A951.
7. Deformed Bar Anchors (DBA): All DBAs shall comply with ASTM A496.
8. Anchor Bolts (AB): ASTM A307 with ASTM A563 heavy hex nuts and hardened washers, Grade A, unless noted otherwise.
9. Headed Stud Anchors (HSA): Manufacture all HSAs in conformance with ASTM A108 with dimensions complying with AISC specifications.

4.2. Construction Requirements:
A. Mortar Joints: Joints shall be "concave", "V-joint" or "weathered raked" for structural members unless noted otherwise on architectural drawings.
B. Masonry walls, beams and columns shall be constructed with running bond, unless noted otherwise.
C. Grouting Requirements: Comply with IBC Section 2104 and ACI 530.1/ASCE 6/TMS 602 Section 3.5. Grout shall be mechanically consolidated and mechanically reconsolidated according to TMS 602/ACI 530.1/ASCE 6 Section 3.5 E.
1. Grout Pour Heights that exceed 4 feet shall meet the following requirements:
a. Provide cleanouts in the bottom course of masonry for each grout pour in accordance with ACI530.1/ASCE 6/TMS 602 Section 3.2 F.
b. For grout other than Self Consolidating Grout a demonstration panel representative of the proposed wall construction and construction procedures shall be provided and approved by the Architect. The demonstration panel may be a part of the completed construction as approved by the Architect.
c. For Self Consolidating Grout placed in masonry that has cured for at least 4 hours, place in lifts not exceeding the Maximum Grout Pour Height in listed in ACI 530.1/ASCE 6/TMS 602 Table 7.
2. When grouting, form grout keys between grout pours. Form grout keys between grout lifts when the first lift is permitted to set prior to placement of the subsequent lift.
a. Form a grout key by terminating the grout a minimum of 1.1/2 in. below a mortar joint.
b. Do not form grout keys within beams.
c. At beams or lintels laid with closed bottom units, terminate the grout pour at the bottom of the beam or lintel without forming a grout key.
D. Reinforcing Bars shall not be welded unless specifically shown on drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for DBAs or HSAs.
E. Control Joints: Spacing shall not exceed 40'-0" or 2.5 times the wall height, whichever is less. Joints shall not be located over masonry openings, and shall be a minimum of the schedule masonry column width away from masonry openings. See architectural drawings for locations.
F. Masonry Veneer Attachment and Reinforcing:
1. Joint reinforcement: Veneer shall have continuous galvanized wire joint reinforcement of wire size W1.7 (#9 gauge) spaced at 18" o.c. maximum. Mechanically attach veneer anchors to the joint reinforcing with Hohmann & Barnard Seismiclip Interlock System (or engineer approved equivalent).
2. To steel stud and wood stud walls: Veneer shall be attached to the studs with Hohmann & Barnard DW-10HS seismic veneer anchors (or engineer approved equivalent) spaced at maximum 16" o.c horizontally and 18" o.c. vertically. Veneer anchors shall be attached to studs with #10 corrosion resistant self-drilling screws.
3. To concrete walls: 22 gauge galvanized dovetail slots shall be installed vertical in concrete at maximum 16" o.c. horizontal spacing. Attach the veneer to dovetail slots with Hohmann & Barnard #315 BT Flexible Brick Tie at maximum 18" o.c. vertically. Dovetail slots and anchor ties shall be galvanized.
4. To reinforced masonry walls: Veneer shall be attached with tri-rod laddur type reinforcement spaced at a maximum of 16" o.c. vertically consisting of 3 – W1.7 (#9 gauge), galvanized, corrugated, continuous wires. Cross wires shall be W1.7 (#9 gauge) galvanized wires welded to the longitudinal wires and spaced at a maximum of 16" o.c. horizontally. Veneer may also be attached with Hohmann & Barnard 265 Grip-Lok Ladder (or engineer approved equivalent) spaced at maximum 16" o.c. horizontally and 18" o.c. vertically. Where the joints in the veneer and masonry back up walls do not align, attach veneer with Hohmann & Barnard 364 SV Seismic-Notch Gripstay Channel Slot Anchor seismic veneer anchors (or engineer approved equivalent).
5. Other methods of attachment may be used after written acceptance by the architect and structural engineer.
6. Steel Lintels: Provide steel angle lintels at all openings through the masonry veneer. Provide one inch of bearing for each foot of width of opening, with a minimum bearing of six inches. See the Steel Angle Lintel Schedule for size.

4.3. Detailing Requirements:
A. Standards: Reinforcing detailing shall comply with American Concrete Institute (ACI) Standard 315, "Details and Detailing of Concrete Reinforcement."
B. Reinforcement Protection (cover):
1. Joint reinforcement shall have not less than 5/8" mortar coverage from the exposed face.
2. Other reinforcement shall have a minimum coverage of one bar diameter over all the bars, but not less than 3/4". When masonry is exposed to soil, minimum coverage shall be 1.5".
C. Vertical steel reinforcement shall be placed and secured against displacement prior to grouting by wire positioners or other suitable devices: at intervals not exceeding 112 bar diameters, at the grout lift heights, or at bar splice locations, whichever is less. Vertical reinforcing shall be located at the center of the wall, unless noted otherwise.
D. Lap Splice Lengths: Lap all masonry reinforcing bars per the "Masonry Reinforcing Bar Lap Splice Schedule." Joint reinforcement shall lap a minimum of 6".
E. Corner Bars: Horizontal reinforcement shall be continuous at all corners and at intersecting walls. Provide corner bars with the required lap splice length.
F. Dowels: All vertical reinforcing shall be doweled to the foundation wall, footing (structure below) and to the structure above with the same size dowel, spacing (and in the same core) as the vertical wall reinforcing unless noted otherwise.
G. Wall Openings 24" wide and wider: Provide reinforced masonry lintels per Masonry Lintel Schedule over the top of, and 2 - #5 bars, in grouted spaces, on all sides and adjacent to every unscheduled opening, unless noted otherwise. Bars for all openings shall extend a minimum of 48 bar diameters beyond the corners of the opening. Vertical bars shall extend from floor level below to the floor, or roof, level above. Where a 48 bar diameter extension is not possible, extend bars as far beyond the opening as possible and terminate them with a 90 degree standard ACI hook.
H. Horizontal wall reinforcing shall be continuous through joining concrete walls, masonry walls, columns, and pilasters. Provide a key between the wall and the column or pilaster. Horizontal wall reinforcing shall be placed inside the column vertical reinforcing.
I. Anchor bolts and headed stud anchors shall be set in a grouted cell. Anchor bolts and headed stud anchors shall have 1" grout surrounding the shank at its penetration. Grout shall be flush with the face or top of the masonry.
J. All masonry column ties shall terminate with 135 degree hooks plus a 6 bar diameter extension (4" minimum).
K. The exposed face of all embed plates shall be set flush with the face of masonry wall or column.

4.4. Minimum Reinforcing:
All masonry walls shall be reinforced as follows, unless shown otherwise on the drawings. Reinforcing shall be placed in grouted cells.

Wall Thickness	Horizontal Reinforcing	Vertical Reinforcing
6"	#4 @ 48" o.c.	#5 @ 32" o.c.
8"	#5 @ 48" o.c.	#5 @ 32" o.c.
10"	#6 @ 48" o.c.	#6 @ 32" o.c.
12"	2 - #5 @ 48" o.c.	#6 @ 32" o.c.

5. Structural Steel

5.1. Material:
A. W-Shapes: ASTM A992, (F_y = 50 ksi), except as noted otherwise
B. All Other Shapes and Plates: ASTM A36 (Fy = 36 ksi), except as noted otherwise
C. Rectangular and Square Hollow Structural Sections (HSS): ASTM A500, Grade C (Fy = 50 ksi)
D. Steel Deck:
1. Galvanized Steel Sheet: ASTM A653 or A1063, Grade 50 with G60 galvanized coating.
E. High-Strength Bolts:
1. Group A: ASTM F3125 Grades A325 & F1852
2. Group B: ASTM F3125 Grades A490 & F2280
3. Group C: ASTM F3043 & ASTM F3111
F. Deformed Bar Anchors (DBA): ASTM A496 or ASTMA1064, 70 ksi minimum yield strength.
G. Anchor Rods: ASTM F1554, Grade 36, unless noted otherwise, with ASTM A563 heavy hex nuts and ASTM F436 hardened washers

5.2. Fabrication and construction shall comply with the following Codes and Standards:
A. American Institute of Steel Construction (AISC) 360-10, "Specification for Structural Steel Buildings"
B. AISC 303-10, "Code of Standard Practice for Steel Buildings and Bridges" excluding the following: Section 3.3 (last sentence of first paragraph), Section 4.4, Section 4.4.1, Section 4.4.2, Section 4.5, and Section 7.13.3
1. The architectural drawings are the prime contract drawings. Consultants' drawings by other disciplines are supplementary to the architectural drawings. The structural drawings shall be used in conjunction with the architectural drawings. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in architectural, structural, and/or other consultants' drawings. Refer to the Special Instructions section of the general notes, below.
C. AISC/RCSC 2014, "Specification for Structural Joints Using High-Strength Bolts"
D. American Welding Society (AWS) D1.1:2010, "Structural Welding Code – Steel" (specific items do not apply when they conflict with the AISC requirements)
E. Steel Joist Institute (SJI): LH/DLH-10, "Standard Specification for Longspan Steel Joists, LH-series and Deep Longspan Steel Joists, DLH-series;"
F. American Iron and Steel Institute (AISI) 2007, "North American Specification for the Design of Cold-Formed Steel Structural Members"

5.3. Structural shapes and plates shall be fabricated from newly rolled (milled) one-piece sections without splices, unless specifically noted otherwise on the structural drawings. Connections for structural steel shall comply with the structural drawings, unless written approval is given by the structural engineer.

5.4. Welding:
A. It is recommended the steel erection contractor and steel fabricator contact the Quality Assurance Agency prior to beginning any welds. A program of joint preparation and welding procedures should be worked out between the two parties before the welding is started so that correct welds will be made from the beginning.
B. Certification of Welders: All shop and field welding shall be executed by AWS certified welders who have been specifically certified for the process of welding being performed. The welder's certification will be considered as being current unless the welder is not engaged in the process of welding being performed for a period exceeding six months or there is a specific reason to question a welder's ability as required by AWS. Certification and records must comply with AWS Standards. Certification and appropriate records must be provided to the architect prior to beginning work.
C. Electrodes: E-70 XX or as noted otherwise. E60 XX may be used for welding steel floor and roof decks.
D. Minimum Welds: All intersecting steel shapes that are not bolted shall be connected by a fillet weld all around, unless noted otherwise. Fillet weld sizes that are not shown shall be 1/16" less than the thinnest of the connected parts for thicknesses 1/4" and larger. Fillet welds on plates less than 1/4" shall be of the same size as the thinnest of the connected parts.
E. Reinforcing Bars: Do not weld rebar except as specifically detailed in the drawings. In such cases, use only AWS standards. Do not substitute reinforcing bars for deformed bar anchors (DBAs), machine bolts, or headed stud anchors (HSAs).
F. Bolts: Do not apply any welds, including "tack" welds to bolts, including anchor bolts, except as specifically detailed in the drawings.
G. Headed Stud Anchor (HSA) welding and Deformed Bar Anchor (DBA) welding shall conform to the manufacturer's specifications. Welding shall comply with AWS D1.1 Section 7.6 through 7.9 and Annex G.

5.5. Bolted Connections:
A. Provide snug tightened joints with Group A (threads not excluded) bolts for steel to steel connections, unless noted otherwise. Snug tightened joints shall be used in connections for simple span framing and beam (or girder) to bearing plate connections. Snug tight is the condition that exists when all of the plies in a connection have been pulled into firm contact by the bolts in the joint and all of the bolts in the joint have been tightened sufficiently to prevent the removal of the nuts without the use of a wrench. The snug tightened condition is typically achieved with a few impacts of an impact wrench, application of an electric torque wrench until the wrench begins to slow, or the full effort of a worker on an ordinary spud wrench.
B. Provide hardened washers beneath the turned element of all bolts or nuts. Provide hardened beveled washers, to compensate for the lack of parallelism, where the outer face of the bolted parts has a slope greater than one in twenty with respect to the plane normal to the bolt axis. Hardened washers or plates installed over oversized holes or slotted holes shall be at least 5/16" thick and shall conform to ASTM F436. Plates or bars installed at slotted holes shall have a size sufficient to completely cover the slot after installation.
C. Where a steel to steel beam connection is not detailed in the drawings, provide a standard AISC framed connection with the capacity to support one half of the total uniform load capacity of the given shape for the span and for the steel specified.
D. Bolts, nuts and washers shall not be reused.

5.6. Steel Lintels
A. Provide steel angle lintels at all openings through the masonry veneer. Provide one inch of bearing for each foot of width of opening, with a minimum bearing of six inches. See the Steel Angle Lintel Schedule for size.

5.7. Beam Web Stiffener Plates:
A. Provide full-height web stiffener plates to each side of all beams above all bearing points. Unless noted otherwise, stiffener plates shall be the thickness indicated in the typical stiffener plate detail.

5.8. Open Web Steel Joists:
A. The steel joist supplier shall be responsible for the design of all open web steel joists and girders. Joists or girders with slopes greater than 1/2 inch per foot shall be designed to meet or exceed the load capacities, listed in the SJI load tables, of the joist or girder sizes indicated on the framing plan, as if the joists or girders were installed level.
B. Open web joists and girders shall be designed with deflection limits of L/240 for total load and L/360 for live load, where L is the joist span.
C. Where uplift loads due to wind are indicated, rows of bottom chord bridging shall be provided at the first bottom chord panel points per SJI Specifications. This is in addition to the bridging shown on the framing plans.
D. Provide special bearing ends to accommodate slopes from sloped joists, sloped girders or sloped bearing conditions.
E. Camber: All joists shall be cambered as specified in the SJI specifications, unless noted otherwise.
F. Field Modifications: Do not modify any joist or girder, including holes through the top and bottom chords, without the written consent and direction from the manufacturer.
G. Shop Drawings and Design Calculations: Shop drawings for all joists and girders used in the project shall be submitted for review. Prior to the fabrication of joists and girders, the open web steel joist and girder manufacturer shall prepare complete joist and girder calculations under the direct supervision of a professional engineer licensed in the State of Utah. Calculations shall be submitted for review for joists and girders designated as SPECIAL or SP and for all joists or girders with axial loads or additional concentrated loads (as noted on the drawings). Submitted calculations shall bear the seal of a professional engineer licensed in the State of Utah.
H. Stabilizer Plates: Provide steel joist and joist girder stabilizer plates as indicated. Stabilizer plates shall be 6" x 6" with a 13/16" diameter hole with 1 1/2" minimum edge distance, and shall extend 3" minimum below the bottom chord of the joist or girder. Plate thickness shall be equal to the chord gap minus 1/4", or 3/4", whichever is less.
I. Verify size, weight, location and configuration of all roof top equipment with architect and mechanical engineer. Provide steel frames for support of roof top equipment as indicated on structural details in the structural drawings. Coordinate openings with the mechanical and general contractor.
J. All concentrated loads greater than 100 pounds supported by open web steel joists and girders shall be located within 6 inches of joist or girder panel points or the joist or girder shall be reinforced with an additional web member. Refer to the "TYPICAL DETAIL AT ADDITIONAL CONCENTRATED POINT LOAD" in the structural drawings.
K. Concentrated point loads, single or multiple, totaling 100 pounds or less can be located at any point along the top or bottom chord of an open web steel joist or girder between adjacent panel points without meeting the requirements above. A limit of four concentrated 100# maximum point loads per joist or girder will be permitted on spans of 12' or greater, one concentrated 100# max. load on spans less than 12', unless specifically noted otherwise on the structural drawings.
L. Joist bridging shall never be used to support hanging loads.
M. Bracing of miscellaneous items (mechanical, electrical, plumbing, etc.) to the bottom chord of joists or girders will not be allowed in any instance. All lateral braces must connect to the top flange/top chord of the framing member above unless noted otherwise on the structural drawings.
N. A certificate of compliance must be submitted to the building official upon completion of fabrication in accordance with IBC Section 2207.5.

6. Wood

6.1. Fabrication and construction shall comply with the following Codes and Standards:
A. American Wood Council National Design Specification for Wood Construction 2015 Edition and Supplement (NDS and NDS Supplement)
B. American Wood Council Special Design Provisions for Wind and Seismic 2015 Edition (SDPWS)
C. Truss Plate Institute National Design Standard for Metal-plate-connected Wood Truss Construction 2014 Edition (TPI 1)

6.2. Materials:
A. Sawn Lumber: Members shall be identified by the grade mark and shall conform to the requirements of DOC PS 20.
1. Dimension Lumber: Members shall be Number 2 Douglas Fir-Larch or better or as noted otherwise.
2. Heavy Timber: Timbers larger than 5"x5" shall be Douglas-Fir Larch Number 1 or better or as noted otherwise, as graded by WWPA.
B. Glued Laminated Timber (Glulam): Glulam shall conform to ANSI/AITC A 190.1 and ASTM D 3737. All Glulams shall meet the requirements for Stress Class 24F-1.8E as specified in Table 5A of the NDS Supplement. A balanced layup is required for all continuous multi-span beams, cantilever beams, columns, and where specifically noted.
C. Prefabricated Wood I-Joists: I-joists shall conform to ASTM D 5055. I-joists specified on the drawings are intended to be the basis of design. Prefabricated wood I-joists that are equivalent to or better than the specified products shall be submitted for approval, and shall include EI values, moment capacities, and maximum vertical shear capacities.
D. Structural Composite Lumber: All Structural Composite Lumber Shall Comply with the requirements of ASTM D 5456. Engineered Wood Rim Board shall comply with ANSI/APA PRR 401 or ASTM D 7672.

Composite lumber type	Bending stress, Fb, (psi)	Shear Stress, Fv, (psi)	Modulus of Elasticity, E, (ksi)	Bearing Stress, Fc⊥ (psi)
Laminated Veneer Lumber (LVL)	2600	285	1900	750
Parallel Strand Lumber (PSL)	2900	290	2000	750
Laminated Strand Lumber (LSL)	1700	400	1700	680

E. Wood Structural Panel Sheathing: All panels shall be rated by the American Plywood Association (APA). Panels shall bear the stamp of an approved testing and grading agency. Panels shall be grade DOC PS 1 or PS 2 with exterior glue with the following panel span rating, unless noted otherwise.

Area to be sheathed	Span Rating	Minimum Thickness (in)
Roofs	40/20	19/32
Floors	24 oc or 48/24	23/32
Walls	24/0	3/8

F. Nails as referenced in these documents shall meet the tolerances in ASTM F1667 and have the following properties:

Nail Size	Length	Minimum Penetration	Common		Galvanized Box	
			Shank Diameter	Dowel Bending Yield Strength (psi)	Shank Diameter	Dowel Bending Yield Strength (psi)
6d	2"	1.1/8"	0.113"	100,000	0.099"	100,000
8d	2.1/2"	1.3/8"	0.131"	100,000	0.113"	100,000
10d	3"	1.1/2"	0.148"	90,000	0.128"	100,000
16d	3.1/2"	1.5/8"	0.162"	90,000	0.135"	100,000
20d	4"	2"	0.192"	80,000	0.148"	90,000

When used to attach structural sheathing nails shall be common or galvanized box type nails. All other nails shall be common type nails.
G. Bolts for connections: ASTM A307 with ASTM A563 heavy hex nuts and standard washers unless noted otherwise.
H. Lag screws for connections: SAE J429 Grade 1 or ASTM A307 Grade A with dimensions per ANSI/ASME B18.2.1. Minimum dowel bending yield strength to be 45,000 psi.

6.3. Special Treatments:
A. Preservative Treatment:
1. The following conditions require that wood members be either naturally durable or preservative treated:
a. Joists and structural floors less than 18 in from exposed earth.
b. Girders less than 12 in from exposed earth.
c. All wood in contact with concrete or masonry which is less than 8 in from exposed earth or below grade.
d. Sleepers, sills, posts or columns on floor slabs in direct contact with earth. Wood members and siding less than 2 vertical inches from any horizontal surface exposed to the weather
e. Any wood member exposed to the weather without covering or protection to prevent water or moisture accumulation.
2. Preservative-treated wood shall meet the requirements in IBC Section 2303.1.9. Preservative-treated wood shall be treated to meet the requirements of AWPA Standard U1 and M4 according to species, use, and preservative. Preservatives used shall be listed in AWPA U1, Section 4. Preservative-treated wood shall be identified by the mark of an accredited inspection agency. Preservative treated wood shall have a moisture content of less than 19% prior to being enclosed or covered.
B. Fasteners, including nuts and washers, in contact with treated wood shall meet the following criteria as per IBC Section 2304.10.5:
1. Fasteners in contact with preservative-treated wood shall be hot-dipped galvanized steel, stainless steel, silicon bronze or copper. Fasteners other than nails, wood screws, timber rivets, and lag screws may be mechanically-deposited zinc-coated steel with coatings meeting ASTM B 695, Class 55 minimum. Fasteners used in exterior applications shall be per fastener manufacturer's recommendations.

6.4. General Framing and Carpentry
A. Minimum Nailing Requirements (See drawings for areas with greater requirements):
1. Roof: Use two plyclips between each support for spans of 48" o.c. and one plyclip between each support for lesser spans at all unsupported panel edges. Provide 1/8" gap between panels. Nail all sheathing panels to common framing with 10d common nails at 6" o.c. at all supported edges and at 12" o.c. at all intermediate supports.
2. Floor: Nail all sheathing panels to common framing members with 10d common nails at 6" o.c. at all supported edges and 10d at 12" o.c. at all intermediate supports.
3. Walls: All sheathing panel edges shall be nailed with 8d common nails at 6" o.c. to common framing members or panel edge blocking, unless noted otherwise. Sheathing shall be nailed at 12" o.c. at all intermediate supports (3/8" or 7/16" panels on studs spaced at 24" o.c. requires 6" spacing at all intermediate supports). All abutting shear wall panel edges shall be blocked with panel edge blocking. Where nominal 3 in members are required at panel edges, panel edge blocking shall also be 3 in nominal thickness if placed perpendicular to sheathing.
4. All nailing through structural wood panels shall be 3/8 in minimum from edges.
B. Connect all items as per the "Minimum Nailing Schedule" contained within the contract drawings and IBC Table 2304.10.1, "Fastening Schedule", unless noted otherwise.
C. All blocking shall, unless noted otherwise, be nominally 2 in thick minimum and fit tight against adjacent framing members.
1. Full-depth blocking shall match the depth of adjacent framing

G. Steel Connector Plates: Use only galvanized steel connector plates that comply with the Truss Plate Institute publication, TPI 1, latest edition. All steel connector plates must be approved by the ICC Evaluation Services. Submit a copy of the ICC Code Evaluation Report for the connector plate used. Values established by this committee must be indicated on the shop drawings.
1. Plates shall be pressed or rolled into member to obtain full penetration without crushing the outer surfaces of wood.
2. Steel plates at compression web members shall be designed to resist 100% of the compression force without considering wood to wood bearing.

H. Wood Members: All wood members of the truss shall be constructed of kiln dried lumber. The trusses shall be handled and stored in a manner to prevent moisture from being absorbed by the wood. Grade stamps shall be visible on framing members.

I. Lateral Bracing/Restraint: Permanent Lateral bracing/restraint and bridging shall be installed by the General Contractor as required by the truss designer and specified on the pre-fabricated wood roof truss design drawings
1. Spans greater ASTM C1019. M feet shall have temporary installation restraint/lateral bracing designed by a professional engineer.
2. The truss installer shall follow the BCSI recommendations for handling of trusses and for both permanent and temporary bracing.

J. Prior to the fabrication of the pre-fabricated wood trusses, the contractor shall submit, in writing, proof of compliance of in-plant inspections in accordance with IBC Section 2303.4.6 or 2303.4.7.

K. The truss manufacturer's identification stamp shall be clearly visible.

L. Truss members and connections shall not be cut, notched, drilled, spliced or otherwise altered (including additional loads) in any way without prior written approval of the engineer.

7. Miscellaneous

7.1. Post-Installed Anchors in Concrete and Masonry

A. Anchorage to hardened concrete and grout-filled masonry shall include all mechanical and adhesive anchors and epoxy doweled reinforcing bars of size, quantity, spacing, and embedment as shown on the drawings. Additional anchors shall not be used without approval from the Engineer prior to installation.

B. Special inspection is required during the installation of all post-installed anchors. Refer to applicable code evaluation reports and the Quality Assurance and Statement of Special Inspections sections of the General Structural Notes.

C. Anchorage to Concrete:
1. All post-installed anchors into hardened concrete shall be selected from the following pre-approved products, unless noted otherwise:

Steel Screw Anchor	Evaluation Report
Hilti KWIK HUS-EZ	ICC ESR-3027
DeWalt Screw-Bolt+	ICC ESR-3889
Simpson Titen HD	ICC ESR-2713

Steel Expansion/Wedge Anchor	Evaluation Report
Hilti KWIK Bolt TZ	ICC ESR-1917
ITW Red Head Trubolt+	ICC ESR-2427
DeWalt Power-Stud+ SD2	ICC ESR-2502
Simpson Strong-Bolt 2	ICC ESR-3037

Adhesive Anchor System	Evaluation Report
Hilti HIT-HY 200	ICC ESR-3187
Hilti HIT-RE 500-SD	ICC ESR-2322
DeWalt AC200+	ICC ESR-4027
DeWalt Pure 110+	ICC ESR-3298
Simpson SET-XP	ICC ESR-2508

2. Adhesive anchors shall be installed into concrete having a minimum age of 21 days. For installations sooner than 21 days, consult the adhesive manufacturer.

D. Anchorage to Masonry:
1. All post-installed anchors into grout-filled masonry shall be selected from the following pre-approved products, unless noted otherwise:

Steel Screw Anchor	Evaluation Report
Hilti KWIK HUS-EZ	ICC ESR-3056
DeWalt Screw-Bolt+	ICC ESR-4042
Simpson Titen HD	ICC ESR-1056

Steel Expansion/Wedge Anchor	Evaluation Report
Hilti KWIK Bolt 3	ICC ESR-1385
DeWalt Power-Stud+ SD1	ICC ESR-2966
Simpson Wedge-All	ICC ESR-1396

Adhesive Anchor System	Evaluation Report
Hilti HIT-HY 70	ICC ESR-2682
Hilti HIT-RE 500-SD	ICC ESR-2322
DeWalt AC100+ Gold	ICC ESR-3200

E. Alternate anchors or adhesives are permitted with approval of the engineer. The Contractor shall submit the proposed anchor product data and code evaluation report demonstrating the anchor is equivalent or exceeds the capacity of the specified anchor.

F. Installation of adhesive anchors horizontally or upwardly inclined to support sustained tension loads shall be performed by personnel certified by an applicable certification program. Certification shall include written and performance tests in accordance with the ACI/CRSI Adhesive Anchor Installer Certification program, or equivalent. Proof of current certification shall be submitted to the engineer for approval prior to commencement of installation.

G. Anchors shall be installed according to the Manufacturer's Printed Installation Instructions and applicable code evaluation reports including:
1. Hole diameter, depth, and cleaning procedure
2. Adhesive mixing, preparation, and placement
3. Installation torque

H. Locate all existing reinforcement and embedded items prior to drilling into concrete or masonry elements. Do not damage rebar or embeds while drilling or installing anchors.

I. Grout all defective or abandoned holes with non-shrink grout or an injectable epoxy adhesive matching the surrounding concrete compressive strength. Consult the Architect for additional requirements at architecturally exposed concrete.

J. Drilled anchors are not allowed in post-tensioned concrete without approval of the architect and engineer.

K. Carbon steel anchors are limited to use in dry, interior locations.

8. Special Instructions

8.1. The project specifications are not superseded by the General Structural Notes but are intended to be complementary to them. Consult the specifications for additional requirements in each section. Notes and specific details on the drawings shall take precedence over General Structural Notes and typical details.

8.2. The architectural drawings are the prime contract drawings. Consultant drawings by other disciplines are supplementary to the architectural drawings. All omissions or conflicts, including dimensions, between the various elements of the consultants' drawings and/or specifications shall be brought to the attention of the Architect before proceeding with any work involved. In case of conflict, follow the most stringent requirement as directed by the Architect without additional cost to the owner. Any work done by the contractor after discovery of such discrepancy shall be done at the contractor's risk.

8.3. The structural drawings shall be used in conjunction with the architectural drawings. Primary structural elements and overall structural layout are indicated within the structural plans and details. Some secondary elements, architectural layouts, alcoves, elevations, slopes, depressions, curbs, mechanical equipment and electrical equipment, are not indicated within the structural drawings. Detailing and shop drawing production for structural elements will require information (including dimensions) contained in the architectural, structural and/or other consultants' drawings.

8.4. Shoring and Bracing Requirements:
A. Floor and Roof Structures -- The General Contractor is responsible for the method and sequence of all structural erection. He shall provide temporary shoring and bracing as his method of erection requires to provide adequate vertical and lateral support. Shoring and bracing shall remain in place as the chosen method requires until all permanent members are in place and all final connections are completed, including all roof and floor attachments. The building shall not be considered stable until all connections are complete.
B. Foundation walls must be braced until the complete floor or roof systems is completed. Do not backfill until floor or roof systems are in place.
C. Walls above grade shall be braced until the structural system is complete. Walls shall not be considered to be self-supporting.

8.5. All expansion joints (E.J.) shown in the structural drawings shall be considered seismic separation joints, unless noted otherwise.

8.6. Submittals: A copy of all shop drawings that have been submitted for review must be kept at the construction site for reference. These drawings must bear the appropriate review stamps. The shop drawing review shall not relieve the contractor of the responsibility of completing the project according to the contract documents. The general contractor shall review and mark all shop drawings prior to submitting them to the Architect for his review. Shop Drawings made from reproductions of (these) contract drawings will be rejected.

8.7. Project Coordination: It shall be the responsibility of the general contractor to coordinate with all trades any and all items that are to be integrated into the structural system. Openings or penetrations through, or attachments to the structural system that are not indicated on these drawings shall be the responsibility of the general contractor and shall be coordinated with the Architect/Engineers. The order of construction is the responsibility of the general contractor. It is the contractor's obligation to provide all items necessary for his chosen procedure.

8.8. Contractor shall field verify all dimensions, and conditions. If the contract drawings do not represent actual conditions, contractor shall notify architect/engineer prior to fabrication or construction within that area.

8.9. Notice of Copyright: The structural drawings, plans, schedules, notes and details are hereby copyrighted by Reaveley Engineers and Associates, Inc., All Rights reserved. Submission or distribution of documents to meet official regulatory requirements or for similar purposes in connection with the project is not to be construed as publication in derogation of Reaveley Engineers and Associates, Inc.'s reserved rights. The documents defining the structure are instruments of service prepared by Reaveley Engineers and Associates, Inc. for one use only. Furthermore, these documents shall not be reproduced, or copied, in whole or in part by the contractor or his subcontractors for preparation of shop drawings or other submittals.

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9. Quality Assurance

9.1. Quality Assurance Agency Requirements:
A. The Owner shall engage a qualified Quality Assurance Agency (QAA) to provide all special inspection and quality assurance testing for the project. The QAA shall provide all information necessary for the building official to determine that the agency meets the applicable requirements
1. The QAA shall be objective, competent and independent from the contractor responsible for the work being inspected. The agency shall also disclose possible conflicts of interest to confirm objectivity.
2. The QAA shall have adequate equipment to perform required tests.
3. The QAA shall employ experienced personnel educated in conducting, supervising and evaluating tests and/or inspections. Experience or training shall be considered relevant when the documented experience or training is related in complexity to the same type of special inspection activities for projects of similar complexity and material qualities.
4. Prior to the start of construction, the QAA shall submit to the building official, the owner architect and engineer copies of the following:
a. Current calibration records for all equipment to be used for the work being inspected and/or tested.
b. Current certification and training records for each individual performing the inspections and/or testing.
c. Sample inspection and testing reports and the distribution list for the records.
d. Proposed inspection procedures and frequency for each inspection required by the work.
e. Proposed testing methods and frequency of testing required by the work.
5. The QAA shall send copies of all inspection and testing reports to the building official, owner, architect, engineer and contractor. Reports shall indicate that the work inspected was or was not completed in conformance to the approved construction documents. Discrepancies shall be brought to the immediate attention of the contractor for correction. If they are not corrected, the discrepancies shall be brought to the attention of the building official, architect and engineer.
6. The QAA shall submit a final report documenting required special inspections and correction of any discrepancies noted in the inspections. The final report shall be distributed to the building official, owner, architect and engineer in a timely manner prior to the completion of the project.

9.2. Contractor Responsibilities:
A. Each contractor responsible for the construction of a system or component requiring special inspections or testing shall submit a written statement of responsibility to the building official, owner, architect and engineer prior to the commencement of the work. The contractor's statement of responsibility shall contain the following:
1. Acknowledgement of awareness of the special requirements defined in the statement of special inspections.
2. Acknowledgement that control will be exercised in order to obtain conformance to the approved construction documents.
3. Contractor's internal quality control procedures, methods and measures to be used in order to obtain conformance to the approved construction documents. Include copies of quality control reports, frequency of reporting and distribution of reports.
4. Identification and qualifications of the person(s) responsible for quality control and their position(s) within the organization.
B. Notification of Engineer: The contractor shall notify the engineer twenty-four hours prior to the items listed in the Structural Observations by the Engineer of Record section.
C. Notification of QAA: The contractor shall notify the QAA in a timely manner so that inspection and testing may be performed as outlined in the statement of special inspections.

9.3. Structural Observations by the Engineer of Record.
A. The Engineer of Record will perform structural observations at critical phases of the project as listed below. Observations will be made on a periodic basis throughout the construction of the structural system. During this time frame, site visits will be made approximately Monthly. Copies of the engineer's report will be distributed to the architect, contractor, owner, and building official.
1. Placing concrete in any footing or pier
2. Closing any wall forms
3. Placing concrete in any column, beam or suspended slab
4. Grouting any masonry
5. Completing the structural steel framing
6. Completing the welding of major sections of steel decking
7. Completing the nailing of any plywood wall or deck
B. Observation visits to the site by the Engineer's field representatives shall not be construed as inspection or approval of construction.

10. Statement of Special Inspections

10.1. The following materials, systems and components require special inspection or testing per Chapter 17 of the International Building Code (IBC).

10.2. For items requiring continuous inspection, a special inspector must be present onsite during the performance of that task. In most cases, periodic inspections/tests shall be performed prior to commencing the task, intermittently during the task, and at the completion of the task. Frequency marked with (E) designates periodic inspections that must be performed prior to or upon completion of every task.

Structural Steel per IBC Section 1705.2.1, 1705.12.1 & 1705.13.1

Item	Frequency	Detailed Instructions
Prior to Welding (Table N5.4-1, AISC 360-10):		
Verify welding procedures (WPS) and consumable certificates	Periodic (E)	
Material identification	Periodic	Verify type and grade of material.
Welder identification	Periodic	A system shall be maintained by which a welder who has welded a joint or member can be identified.
Fit-up groove welds	Periodic	Verify joint preparation, dimensions, cleanliness, tacking, and backing.
Access holes	Periodic	Verify configuration and finish.
Fit-up of fillet welds	Periodic	Verify alignment, gaps at root, cleanliness of steel surfaces, and tack weld quality and location.
During Welding (Table N5.4-2, AISC 360-10):		
Use of qualified welders	Periodic	Verify that welders are appropriately qualified.
Control and handling of welding consumables	Periodic	Verify packaging and exposure control.
Cracked tack welds	Periodic	Verify that welding does not occur over cracked tack welds.
Environmental conditions	Periodic	Verify win speed is within limits as well as precipitation and temperature.
WPS followed	Periodic	Verify items such as settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position.
Welding techniques	Periodic	Verify interpass and final cleaning, each pass is within profile limitations, and quality of each pass.
After Welding (Table N5.4-3, AISC 360-10):		
Welds cleaned	Periodic	Verify that welds have been propyl cleaned.
Size, length, and location of welds	Periodic (E)	
Welds meet visual acceptance criteria	Periodic (E)	
Arc strikes	Periodic (E)	
k-area	Periodic (E)	
Backing & weld tabs removed	Periodic (E)	
Repair activities	Periodic (E)	
Document acceptance or rejection of welded joint/member	Periodic (E)	
Nondestructive Testing (Section N5.5, AISC 360-10):		
CJP welds (Risk Cat. II)	Periodic	Ultrasonic testing shall be performed on 10% of CJP groove welds in butt, T- and corner joints subject to transversely applied tension loading in materials 5/16-inch thick or greater. Testing rate must be increased to 100% if > 5% of welds tested have unacceptable defects per Section N5.5f.
Welded joints subject to fatigue	Periodic (E)	Reduction of ultrasonic testing is prohibited.
Prior to Bolting (Table N5.6-1, AISC 360-10):		
Certifications of fasteners	Continuous	
Fasteners marked	Periodic	Verify that fasteners have been marked in accordance with ASTM requirements.
Proper fasteners for joint	Periodic	Verify grade, type, and bolt length if threads are excluded from the shear plane.
Proper bolting procedure	Periodic	Verify proper procedure is used for the joint detail.
Connecting elements	Periodic	Verify appropriate faying surface condition and hole preparation, if specified, meet requirements.
Pre-installation verification testing	Periodic	Observe and document verification testing by installation personnel for fastener assemblies and methods used.
Proper storage	Periodic	Verify proper storage of bolts, nuts, washers, and other fastener components.
During Bolting (Table N5.6-2, AISC 360-10):		
Fastener assemblies	Periodic	Verify that fastener assemblies are of suitable condition, paced in all holes, and washers are positioned as required.
Snug-tight prior to pretensioning	Periodic	Verify that joints are brought to snug-tight condition prior to pretensioning operation.
Fastener component	Periodic	Verify that fastener component is not turned by wrench prevented from rotating.
Pretensioned fasteners	Periodic	Verify that fasteners are Pretensioned in accordance with RCSC Specification, progressing systematically from the most rigid point toward the free edges.
After Bolting (Table N5.6-3, AISC 360-10):		
Document acceptance or rejection of bolted connections	Periodic (E)	
Other Steel Inspections (Section N5.7, AISC 360-10: Table J8-1, J10-1, AISC 341-10):		
Structural steel details	Periodic	All fabricated steel or steel frames shall be inspected to verify compliance with the details shown in the construction documents, such as braces, stiffeners, member locations, and proper application of joint details at each connection.
Anchor rods and other embedments supporting structural steel	Periodic	Shall be on the premises during the placement of anchor rods and other embedments supporting structural steel for compliance with construction documents. Verify the diameter, grade, type, and length of the anchor rod or embedded item, and the extent or depth of embedment prior to placement of concrete.

Steel Construction Other Than Structural Steel per IBC Section 1705.2.2

Item	Frequency	Detailed Instructions
Steel Roof and Floor Decks (IBC Table 1705.2.2):		
Material verification of cold-formed steel deck	Periodic	Confirm that identification markings are provided to conform to ASTM standards specified on construction documents.
Floor and roof deck welds	Periodic	Visual inspection is required to confirm that weld meets acceptance criteria of AWS D1.3. Welder qualifications should also be verified.

Concrete Construction per IBC Sections 1705.3 &1705.12

Item	Frequency	Detailed Instructions
Reinforcing steel.	Periodic	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
Welding of reinforcing steel	Periodic	Verify weldability of reinforcing steel other than A706. Continuous inspection is required for welding of reinforcing steel used in intermediate or special concrete moment frames, boundary elements of special structural walls or shear reinforcement.
Cast-in bolts & embeds	Periodic	
Post-installed adhesive anchors installed in horizontally or upwardly inclined orientations to resist sustained tension loads	Continuous	All post-installed anchors/dowels shall be special inspected in accordance with the approved code evaluation report and with ACI Section 17.8.2.
Post-installed mechanical anchors and adhesive anchors not defined above	Periodic	
Use of required mix design	Periodic	Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 19, 26.4.3-26.4.4; and IBC 1904.1, 1908.2, 1908.3.
Concrete sampling for strength tests, slump, air content, and temperature	Continuous	Samples for strength tests shall be taken in accordance with ASTM C172, cured per ASTM C31 and tested in accordance with ASTM C39 by a testing agency complying with ASTM C1077. Acceptance criteria for strength tests shall be per ACI 318 Section 26.12.3. For each mix placed, samples shall be taken not less than once a day, nor less than once for each 150 yd^3 of concrete, nor less than once for each 5000 ft^2 of surface area for slabs or walls. At the time fresh concrete is is sampled to fabricate specimens for strength tests, perform slump and air content tests and determine the temperature of the concrete.
Concrete placement	Continuous	
Curing temperature and techniques	Periodic	Verify that concrete is maintained at a temperature of at least 50°F and in a moist condition for at least 7 days after placement. Verify that high-early-strength concrete is maintained at a temperature of at least 50°F and in a moist condition for at least 3 days after placement. Accelerated curing methods may be used (see ACI 318: 26.5.3.2(c)). Shotcrete shall be maintained at a temperature of at least 40°F for the same period of time as noted for concrete and kept in the moist condition during curing periods in accordance to IBC 1908.9 All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded.
In-situ strength verification	Periodic	Verify that adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons.
Formwork	Periodic	Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.
Reinforcement in special moment frames, special structural walls, and all components of special structural walls including coupling beams and wall piers	Continuous	Verify that ASTM A 615 reinforcing steel used in these areas complies with ACI 318: 20.2.2.5 by means of certified mill test reports. If this reinforcing steel is to be welded chemical tests shall be performed in accordance with AWS D1.4.
Welding of Reinforcing Steel (IBC Table 1705.3):		
Verification of weldability	Periodic	Verify weldability of reinforcing steel other than A706 based upon carbon equivalent and in accordance with AWS D1.4. Continuous inspection is required for welding of reinforcing steel used in intermediate or special concrete moment frames, boundary elements of special structural walls or shear reinforcement.
Other reinforcing steel	Periodic	Visually inspect all welds in accordance with AWS D1.4.
Single-pass fillet welds, 5/16" max	Periodic	
All other welds	Continuous	

Masonry Construction per IBC Section 1705.4

Item	Frequency	Detailed Instructions
Prior to Construction (Article 3.1.1, TMS-402/ACI 530.1-13):		
Review material certificates, mix designs, test results and construction procedures	Periodic	Verify that materials conform to the requirements of the approved construction documents. Mix design, test results, material certificates, and construction procedures should be submitted for review. Mortar mix designs shall conform to ASTM C 270 while grout shall comply with the proportion or strength requirements of ASTM C 476 or be based upon compressive strength tests in accordance with ASTM C 1019. Material certificates shall be provided for the following: reinforcement; anchors, ties, fasteners, and metal accessories; masonry units; mortar and grout materials. Construction procedures for cold-weather or hot-weather construction shall be reviewed.
Verify f'_m prior to construction	Periodic	Determine the compressive strength for each wythe by the "unit strength method" or by the "prism test method" as specified in Section 1.4B of ACI 530.1-13 prior to construction.
Proportions of site-prepared mortar	Periodic	Verify that mortar is of the type and color specified on the construction documents, that it conforms to ASTM C 270, and that it is mixed in accordance with Article 2.6 A of TMS-602/ACI 530.1-13.
Construction of mortar joints	Periodic	Verify that mortar joints comply with Article 3.3 B of TMS-602/ACI 530.1-13.
Preparation of required grout specimens, mortar specimens and/or prisms shall be observed	Periodic	If the prism test method is used a minimum of three prisms shall be constructed in accordance with ASTM C1314. If the unit strength method is selected the compressive strength of the grout shall be determined per ASTM C1019 (not required if grout complies with ASTM C476).
Prior to Grouting (Table 3.1.2, TMS-402/ACI 530-13):		
Grout space	Periodic	Verify that grout space is free of mortar droppings, debris, loose aggregate, and other deleterious materials and that cleanouts are provided per Article 3.2 D and 3.2 F of TMS-602/ACI 530.1-13.
Grade, type, and size of reinforcement and anchor bolts	Periodic	Verify that reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors comply with the approved construction documents and Section 1.6 of TMS 402/ACI 530-13.
Placement of reinforcement and connectors	Periodic	Verify that reinforcement, joint reinforcement, wall ties, anchor bolts and veneer anchors are installed in accordance with the approved construction documents and Articles 3.2 E, 3.4, and 3.6 A of TMS 602/ACI 530.1-13.
Proportions of site-prepared grout	Periodic	Verify that grout is proportioned per ASTM C 476 and has a slump between 8-11 inches. Self-consolidated grout shall not be proportioned onsite. (see Articles 2.6 B and 2.4 G.1.b of TMS 602/ACI 530.1-13. *Continuous inspection is required for Risk Category IV buildings.*
Placement of masonry units and construction of mortar joints	Periodic	Verify that face shells and head joints are fully mortared and that vertical cells are aligned and unobstructed openings for grout are provided. All units are to be clean and placed while mortar is soft and plastic. Verify that mortar joints are placed in accordance with Article 3.3 B of TMS 602/ACI 530.1-13.
During Masonry Construction (Table 3.1.2, TMS-402/ACI530-13):		
Size and location of structural elements	Periodic	Verify that structural elements are placed in locations specified on the approved construction documents and to the tolerances noted in Section 3.3F of TMS 602/ACI 530.1-13.
Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	Periodic	Verify that correct anchorages and connections are provided per the approved plans and Sections 1.16.4.3 and 1.17.1 of TMS 402/ACI 530-13. Verify that structural elements are placed in locations specified on the approved construction documents. Headed or bent bar anchor bolts shall be embedded in grout.
Welding of reinforcement	Continuous	
Preparation, construction, and protection of masonry during cold weather (<40°F) or hot weather (>90°F)	Periodic	Verify that cold-weather construction is performed in accordance with Article 1.8 C of TMS 602/ACI 530.1-13 and hot weather construction per Article 1.8 D of TMS 602/ACI 530.1-13.
Placement of grout	Continuous	
Self-consolidating grout	Continuous	
Placement of AAC masonry units and construction of thin-bed mortar joints	Periodic	Verify that mortar is placed in accordance with Article 3.3 B.8 of TMS-602/ACI 530.1-13.
Observation of grout specimens, mortar specimens, and/or prisms	Periodic	Confirm that specimens/prisms are performed as required by Article 1.4 of TMS-602/ACI 530.1-13. *Continuous inspection is required for Risk Category IV buildings.*
Minimum Testing:		
Verification of Slump Flow and Visual Stability Index (VSI) for self-consolidating grout	Periodic	Compressive strength tests should be performed in accordance with ASTM C 1019 for slump flow and ASTM C 1611 for VSI.
Verification of f'_m	Periodic	Determine the compressive strength for each wythe by the "unit strength method" or by the "prism test method" as specified in Article 1.4 B of TMS 602/ACI 530.1-13 prior to construction. *For Risk Category IV buildings this should be verified at every 5,000ft² of construction.*
Verification of proportions of materials in premixed or pre-blended mortar and grout	Periodic	Verify that proportions for mortar meet ASTM C 270 and proportions for grout meet ASTM C 476. This applies to *Risk Category IV buildings only.*
Post-installed anchors or dowels		All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report.

Wood Construction per IBC Sections 1705.5, 1705.10.1 & 1705.11.2

Item	Frequency	Detailed Instructions
High-load diaphragms	Periodic	Verify thickness and grade of sheathing, size of framing members at panel edges, nail/staple diameters and length, and the number of fastener lines and fastener spacing per approved plans.
Wood trusses spanning > 60-feet	Periodic	Verify that temporary and permanent truss bracing is installed in accordance with approved truss package.
Structural wood	Periodic	If fastener spacing is less than 4"o.c. for either diaphragm or shear wall fastening: Verify that proper nailing, bolting, anchoring and other fastening of shearwalls, diaphragms, drag struts, braces, shear panels and holdowns has occurred.

Soils per IBC Section 1705.6

Item	Frequency	Detailed Instructions
Verify subgrade is adequate to achieve design bearing capacity	Periodic	Prior to placement of concrete.
Verify excavations extend to proper depth and material	Periodic	Prior to placement of compacted fill or concrete.
Verify that subgrade has been appropriately prepared prior to placing compacted fill	Periodic	Prior to placement of compacted fill.
Perform classification and testing of compacted fill materials	Periodic	All materials shall be checked at each lift for proper classifications and gradations not less than once for each 10,000ft² of surface area.
Verify proper materials, densities and lift thicknesses during placement and compaction.	Continuous	

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KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

23 EAST CENTER STREET
KAYSVILLE, UTAH 84037

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SEAL



06/14/2019

MHTN PROJECT NO. PROJ #2018576

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NO.△	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
GENERAL STRUCTURAL NOTES

SHEET NUMBER
SE002

PLAN LEGEND

- FOOTING STEP
- FOOTING - CONTINUOUS
- FOOTING - THICKENED SLAB
- FOOTING - SQUARE FOOTING - RECTANGULAR FOOTING - MAT FOOTING
- 0" CHANGE IN ELEVATION
- SLAB BLOCK-OUT AT COLUMN
- CJ SLAB CONTROL/CONSTRUCTION JOINT
- SPECIAL SLAB OR DECK AREA
- SPECIAL SLAB OR DECK AREA
- SPECIAL SLAB OR DECK AREA
- RECESSED/DEPRESSED SLAB
- OPENING
- WOOD DIAPHRAGM SHEATHING
- CONCRETE WALL
- CONCRETE WALL - RECESSED (FDTN PLAN) CONCRETE LINTEL (FRAMING PLAN)
- CONCRETE WALL - RECESSED AT DOOR
- CONCRETE PIER IN CONCRETE WALL. TOP OF PIER RECESSED BELOW SLAB.
- CONCRETE COLUMN
- CONCRETE JAMB COLUMN POURED MONOLITHIC WITH CONCRETE WALL
- MASONRY WALL
- MASONRY WALL - RECESSED (FDTN PLAN) MASONRY LINTEL (FRAMING PLAN)
- MASONRY COLUMN IN MASONRY WALL
- STEEL STUD WALL - STRUCTURAL
- STEEL HEADER IN STEEL STUD WALL
- BRICK WALL
- BRICK WALL - RECESSED (FDTN PLAN) BRICK LINTEL (FRAMING PLAN)
- BRICK COLUMN IN BRICK WALL
- WOOD STUD WALL
- WOOD HEADER IN WOOD STUD WALL
- NON-BEARING WOOD WALL. SEE ARCH
- STEEL/WOOD BEAM OR GIRDER
- STEEL/WOOD JOIST OR PURLIN
- STEEL BEAM OR GIRDER
- STEEL JOIST OR PURLIN
- STEEL ANGLE BRACE / KICKER. SEE __/__ FOR SLAB EDGE KICKER. SEE __/__ FOR FRAME BRACE
- CROSS BRIDGING
- HORIZONTAL BRIDGING
- STEEL COLUMN - TUBE (HSS)
- STEEL COLUMN - WIDE FLANGE
- WOOD COLUMN
- EXISTING FOOTING - CONTINUOUS
- EXISTING FOOTING - THICKENED SLAB
- EXISTING FOOTING - SQUARE, RECTANGULAR, OR MAT
- EXISTING CONCRETE SHEAR WALL, FOUNDATION WALL OR RETAINING WALL
- EXISTING OPENING THROUGH CONCRETE WALL
- EXISTING CONCRETE PIER IN CONCRETE WALL. PIER RECESSED BELOW SLAB.
- EXISTING CONCRETE COLUMN
- NEW OPENING THROUGH EXISTING CONCRETE WALL
- EXISTING MASONRY WALL
- EXISTING OPENING THROUGH MASONRY WALL
- NEW OPENING THROUGH EXISTING MASONRY WALL
- EXISTING MASONRY COLUMN IN MASONRY WALL
- EXISTING STEEL COLUMN - TUBE
- EXISTING STEEL COLUMN - WIDE FLANGE
- EXISTING STEEL COLUMN - PIPE
- EXISTING SLAB BLOCK-OUT AT COLUMN
- CJ EXISTING SLAB CONTROL/CONSTRUCTION JOINT
- EXISTING STEEL BEAM OR GIRDER
- EXISTING STEEL JOIST OR PURLIN
- EXISTING CROSS BRIDGING
- EXISTING HORIZONTAL BRIDGING
- EXISTING TO BE REMOVED
- EXISTING OPENING

ABBREVIATIONS

@	AT
AB	ANCHOR BOLT (S)
ABV	ABOVE
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
BLDG	BUILDING
BLW	BELOW
BM	BEAM
BOT	BOTTOM
BRG	BEARING
BTWN	BETWEEN
CJ	CONSTRUCTION JOINT OR CONTROL JOINT
CJP	COMPLETE JOINT PENETRATION
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CTR	CENTER
D.B.	DECK BEARING
db	DIAMETER OF REINFORCING BAR
DBA	DEFORMED BAR ANCHORS
DBL	DOUBLE
DET	DETAIL
DIA (OR Ø)	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DK	DECK
DN	DOWN
DWG	DRAWING
DWL	DOWEL
E.F.	EACH FACE
E.J.	EXPANSION JOINT (SEISMIC SEPARATION JOINT)
E.W.	EACH WAY
EA	EACH
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR
ENG	ENGINEER
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST (E)	EXISTING
EXP	EXPANSION / EXPOSED
EXT	EXTERIOR
F.D.	FLOOR DRAIN
F.F.	FINISH FLOOR
F.V.	FIELD VERIFY
FDTN	FOUNDATION
FIN	FINISH
FL	FLOOR
FT	FOOT
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GLB	GLU-LAMINATED BEAM
GR	GRADE
GSN	GENERAL STRUCTURAL NOTES
HB	HORIZONTAL BRIDGING
HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHORS
HSS	HOLLOW STRUCTURAL STEEL
HT	HEIGHT
I.F.	INSIDE FACE
IBC	INTERNATIONAL BUILDING CODE
ICBO	INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS
ICC	INTERNATIONAL CODE COUNCIL
IN	INCH
INSUL	INSULATION
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS - 1,000 POUNDS
KLF	KIPS PER LINEAL FOOT
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
LBS	POUNDS
Ld, Lt, Lsb, Lsbt, Ldc, Lsc	SEE CONCRETE REINFORCING BAR DEVELOPMENT AND LAP LENGTH SCHEDULE
LF	LINEAL FOOT
LFRS	LATERAL FORCE RESISTING SYSTEM (SFRS & WFRS)
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LSH	LONG SIDE HORIZONTAL
LSV	LONG SIDE VERTICAL
MAS	MASONRY
MAX	MAXIMUM
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MFGR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NORM	NORMAL
NTS	NOT TO SCALE
O.C.	ON CENTER
O.F.	OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
OWSJ	OPEN WEB STEEL JOIST
P.T.	POST-TENSIONED
PCF	POUNDS/CUBIC FOOT
PJP	PARTIAL JOINT PENETRATION
PL	PLATE
PLF	POUNDS/LINEAL FOOT
PNL	PANEL
PSF	POUNDS/SQ FOOT
PSI	POUNDS/SQ INCH
R.D.	ROOF DRAIN

ABBREVIATIONS

REINF	REINFORCING
REQD	REQUIRED
SFRS	SEISMIC FORCE RESISTING SYSTEM
SHT	SHEET
SI	SPECIAL INSPECTION (SP. INSP.)
SIM	SIMILAR
SOG	SLAB ON GRADE
SQ	SQUARE
STAG	STAGGERED
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STRUCT	STRUCTURAL
T & B	TOP AND BOTTOM
T.O.	TOP OF
TEMP	TEMPERATURE
THDS	THREADS
TOC	TOP OF CONCRETE
TOCP	TOP OF CONCRETE PIER
TOF	TOP OF FOOTING
TOS	TOP OF SLAB
TOST	TOP OF STEEL
TOW	TOP OF WALL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W.P.	WORK POINT
W/	WITH
WF	WIDE FLANGE
WFRS	WIND FORCE RESISTING SYSTEM
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

PLAN MARKS

BF-#	BRACED FRAME
CB-#	CONCRETE BEAM
CC-#	CONCRETE COLUMN
CCSS-#	CANTILEVERED CONCRETE SUSPENDED SLAB
CDP-#	CONCRETE DRILLED PIER
CFW-#	CONCRETE FOUNDATION WALL
CGB-#	CONCRETE GRADE BEAM
CJ-#	CONCRETE JOIST
CJC-#	CONCRETE JAMB COLUMN
CL-#	CONCRETE LINTEL
CP-#	CONCRETE PIER
CRW-#	CONCRETE RETAINING WALL
CSG-#	CONCRETE SLAB ON GRADE
CSH-#	CONCRETE SHEAR HEAD
CSS-#	CONCRETE SUSPENDED SLAB
CSW-#	CONCRETE SHEAR WALL
CW-#	CONCRETE WALL
FC#	CONTINUOUS FOOTING
FM#	MAT FOOTING
FR#	RECTANGULAR FOOTING
FS#	SQUARE FOOTING
FTS#	THICKENED SLAB FOOTING
HD-#	HOLD DOWN ANCHOR
MC-#	MASONRY COLUMN
MF-#	MOMENT FRAME
ML-#	MASONRY LINTEL
MP-#	MASONRY PIER
MW-#	MASONRY WALL
PTB-#	POST-TENSIONED CONCRETE BEAM
SBP-#	STEEL BASE PLATE
SC-#	STEEL COLUMN
SCP-#	STEEL CAP PLATE
SD-#	STEEL DECK
SDA-#	STEEL DECK ATTACHMENT
SG-#	STEEL GIRDER
SJ-#	STEEL JOIST
SND-#	SNOW DRIFT
WB-#	WOOD BEAM
WBW-#	WOOD BEARING WALL
WC-#	WOOD COLUMN
WD-#	WOOD DIAPHRAGM
WJ-#	WOOD JOIST
WSW-#	WOOD SHEAR WALL

STRUCTURAL DRAWING LIST

SHT NO.	SHT NAME
SE001	GENERAL STRUCTURAL NOTES
SE002	GENERAL STRUCTURAL NOTES
SE003	LEGENDS & ABBREVIATIONS
SD101	DEMOLITION PLAN
SB101	FOOTING AND FOUNDATION PLAN
SB501	TYPICAL FOOTING & FOUNDATION DETAILS
SB502	TYPICAL FOOTING & FOUNDATION DETAILS
SB503	NEW WALL OPENING DETAILS
SB601	CONCRETE SCHEDULES
SB602	CONCRETE ANCHOR SCHEDULES
SB611	MASONRY SCHEDULES
SF101A	MEZZANINE WALL FRAMING PLAN
SF101B	MEZZANINE FLOOR FRAMING PLAN
SF102A	WALL FRAMING PLAN
SF102B	ROOF FRAMING PLAN
SF501	ROOF FRAMING DETAILS
SF502	ROOF FRAMING DETAILS
SF503	ROOF FRAMING DETAILS
SF504	WALL FRAMING DETAILS
SF601	WOOD SHEAR WALL SCHEDULES
SF602	WOOD BEARING WALL AND WOOD DIAPHRAGM SCHEDULES
SF611	STEEL DECK & CONNECTION SCHEDULES

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LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. #176779
MARK HARRIS
UTAH

06/14/2019

MHTN PROJECT NO. PROJ #2018576

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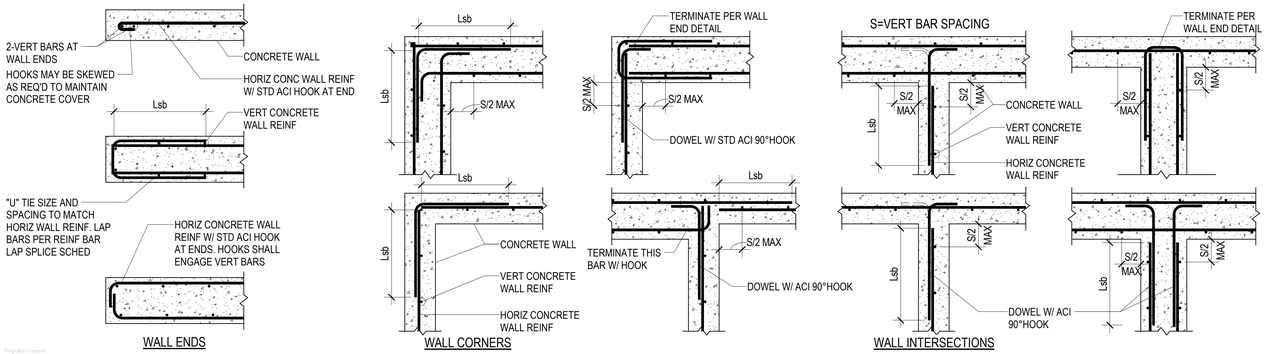
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AUGUST 28, 2019

SHEET NAME
LEGENDS & ABBREVIATIONS

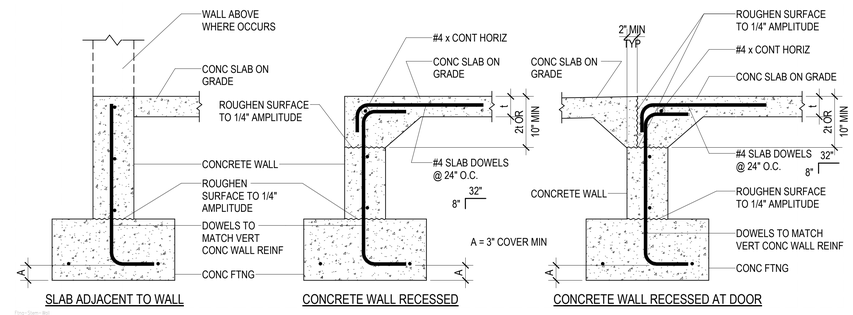
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SE003

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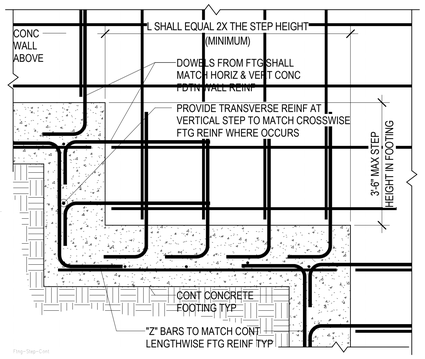
D1 SB501 TYPICAL CONCRETE WALL REINFORCING AT ENDS, CORNERS AND INTERSECTIONS (PLAN VIEWS)

NO SCALE



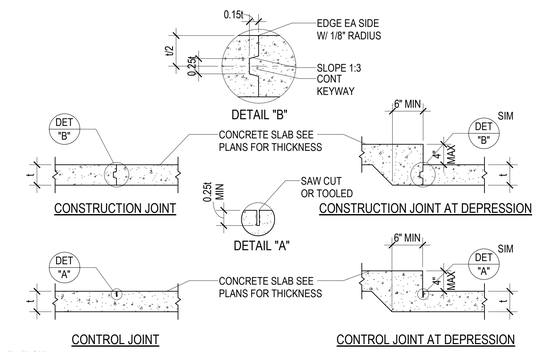
D4 SB501 TYPICAL CONCRETE FOUNDATION WALL WITH CONCRETE SLAB ON GRADE

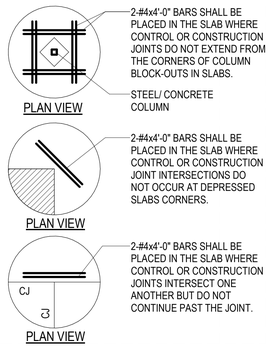
NO SCALE



C1 SB501 TYPICAL STEP DETAIL AT CONTINUOUS FOOTING

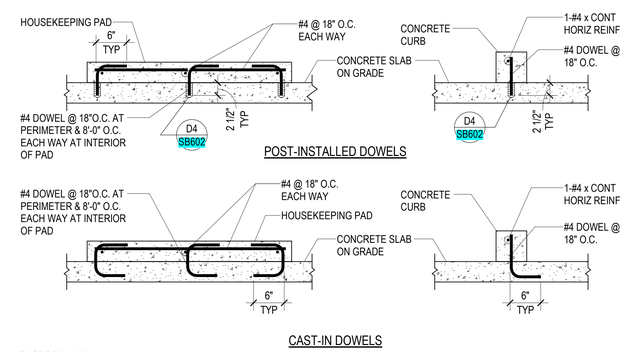
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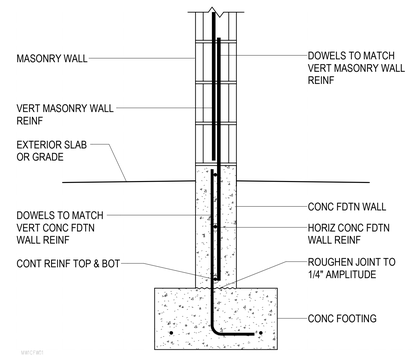
C2 SB501 TYPICAL CONCRETE SLAB ON GRADE DETAILS

NO SCALE



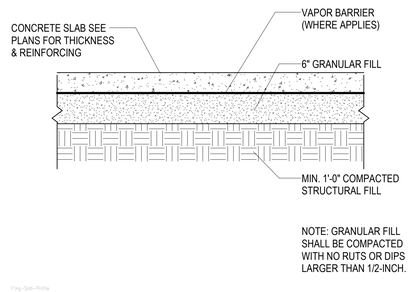
C4 SB501 TYPICAL HOUSEKEEPING PAD & CURB DETAILS AT CONCRETE SLAB ON GRADE

NO SCALE



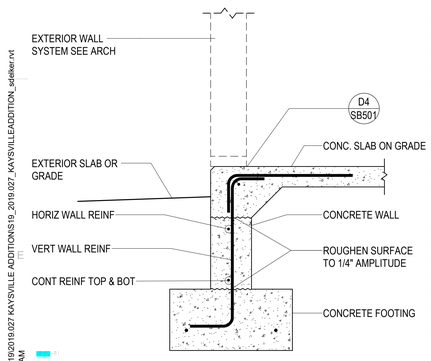
B4 SB501 TYPICAL MASONRY WALL ON FOUNDATION WALL

NO SCALE



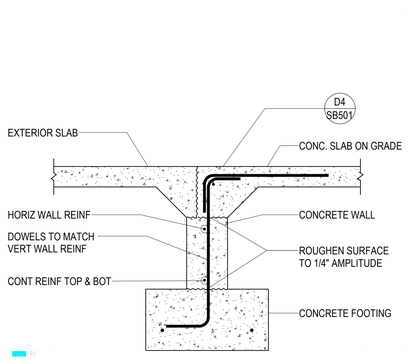
B5 SB501 TYPICAL CONCRETE SLAB ON GRADE PROFILE

NO SCALE



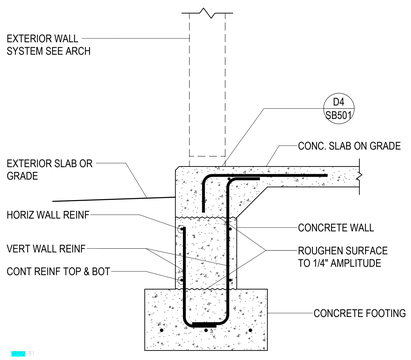
A1 SB501 TYPICAL CONCRETE SLAB TO FOUNDATION WALL AT STOREFRONT GLAZING

NO SCALE



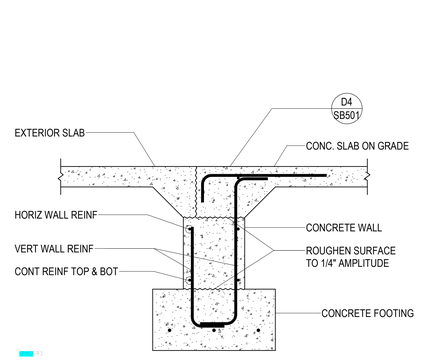
A2 SB501 TYPICAL CONCRETE SLAB TO FOUNDATION WALL AT DOOR OPENING

NO SCALE



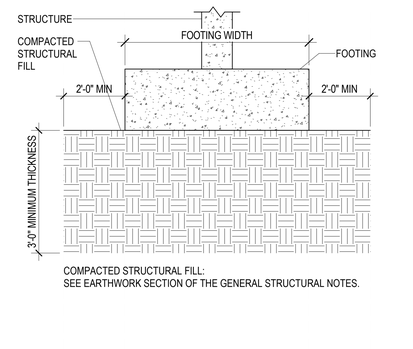
A3 SB501 TYPICAL CONCRETE SLAB TO FOUNDATION WALL AT STOREFRONT GLAZING

NO SCALE



A4 SB501 TYPICAL CONCRETE SLAB TO FOUNDATION WALL AT DOOR OPENING

NO SCALE



A5 SB501 TYPICAL COMPACTED STRUCTURAL FILL DETAIL

NO SCALE

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LICENSED CERTIFIED STRUCTURAL ENGINEER
No. #178779
MARK W. HARRIS
STATE OF UTAH

06/14/2019

MHTN PROJECT NO. PROJ #2018576

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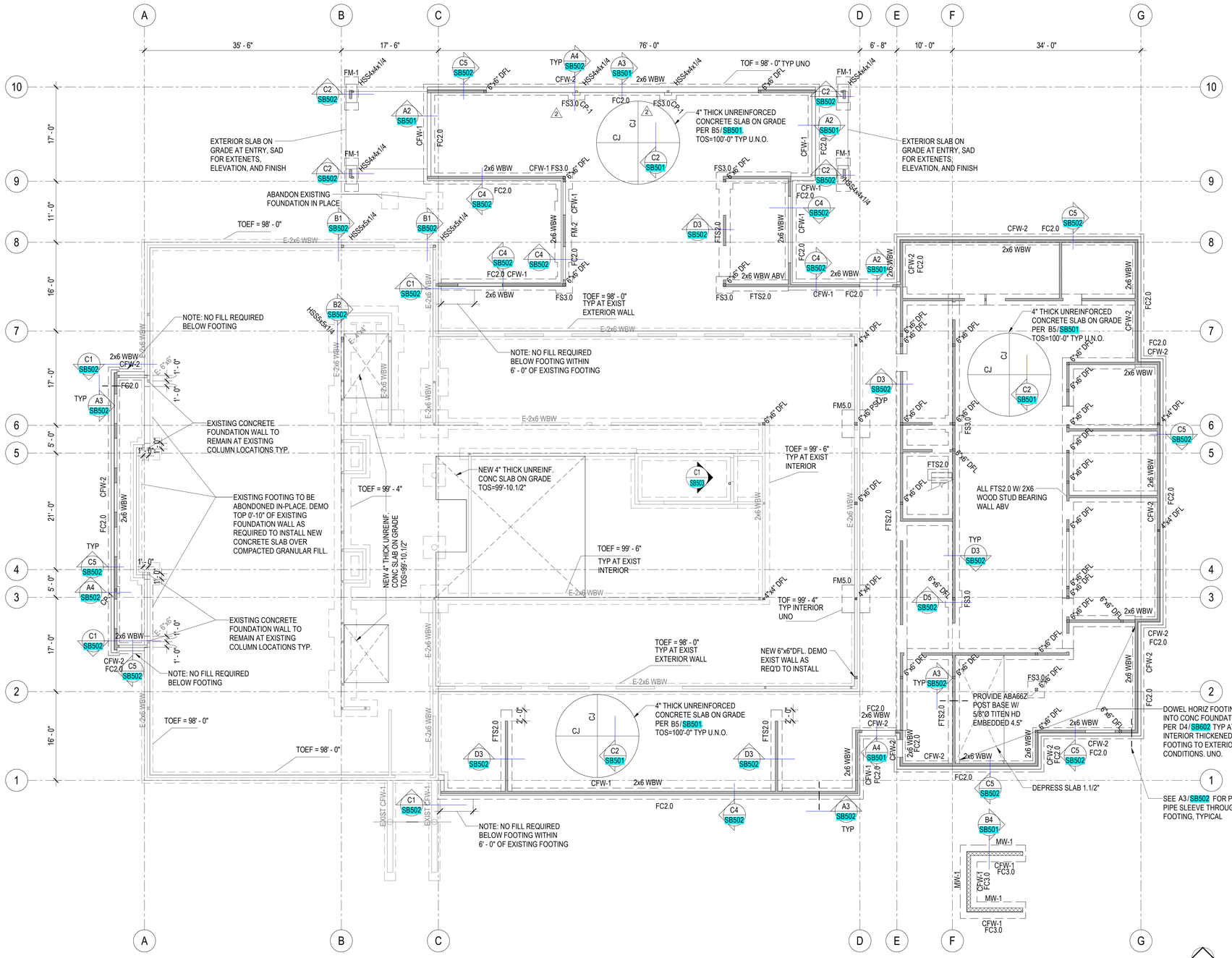
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ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
TYPICAL FOOTING & FOUNDATION DETAILS

SHEET NUMBER
SB501



A1 / SB101 FOOTING & FOUNDATION PLAN

SCALE: 1/8" = 1'-0"

FOOTING & FOUNDATION PLAN NOTES

1. SEE ARCHITECTURAL, CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE RETAINING AND / OR SITE WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

2. SEE TYPICAL STEP DETAIL AT CONTINUOUS FOOTING FOR REINFORCING REQUIREMENTS C1/SB501 FOR TYPICAL EXTERIOR TO INTERIOR FOOTING STEP DETAIL.

3. PROVIDE REINFORCEMENT AT WALL ENDS, INTERSECTIONS AND OPENINGS PER TYPICAL DETAILS D1/SB501 AND A4/SB501.

4. DOWEL ALL CONCRETE WALLS TO FOOTING PER TYPICAL DETAIL D4/SB501.

5. PROVIDE COMPACTED STRUCTURAL FILL UNDER ALL CONCRETE FOOTINGS PER TYPICAL DETAIL A5/SB501.

EXISTING BUILDING NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DETAILING, FABRICATING, ERECTING OR INSTALLING ANY STRUCTURAL ELEMENT. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM IN A TIMELY MANNER SUCH THAT WORK WILL NOT BE DELAYED.

2. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING OF EXISTING STRUCTURE DURING CONSTRUCTION.

3. CONTRACTOR SHALL FIELD VERIFY TOP OF EXISTING FOOTING ELEVATIONS (TOEF) AND FOOTING THICKNESS AT LOACATIONS WHERE NEW CONSTRUCTION INTERFACE WITH EXISTING. TOEF ELEVATIONS SHOWN ARE TAKEN FROM ORIGINAL CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM.

4. REFER TO DETAILS FOR OTHER INCIDENTAL AREAS WHERE DEMOLITION IS REQUIRED FOR INSTALLATION OF NEW FRAMING MEMBERS.

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UTAH
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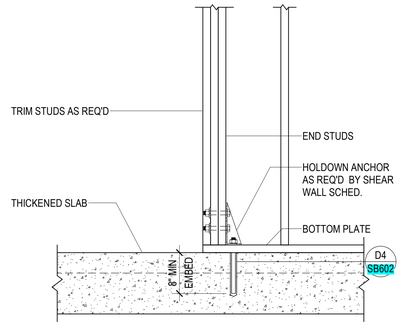
NO.	DATE	DESCRIPTION
2	06/28/2019	Addendum #02

ISSUE
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AUGUST 28, 2019

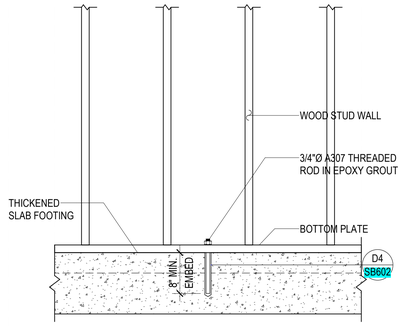
SHEET NAME
FOOTING AND FOUNDATION PLAN

SHEET NUMBER
SB101

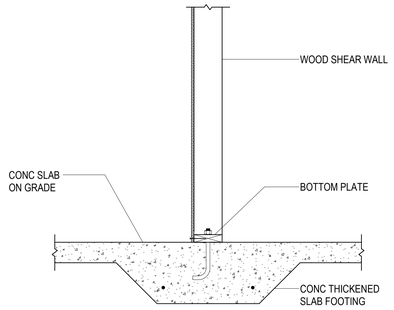
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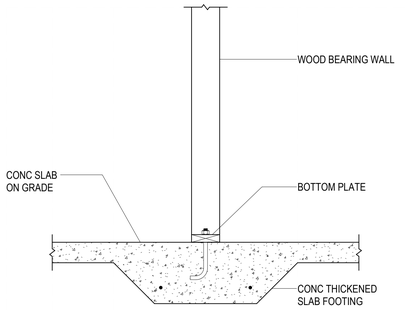
D1 TYPICAL HOLDOWN ANCHOR DETAIL
SB502 NO SCALE



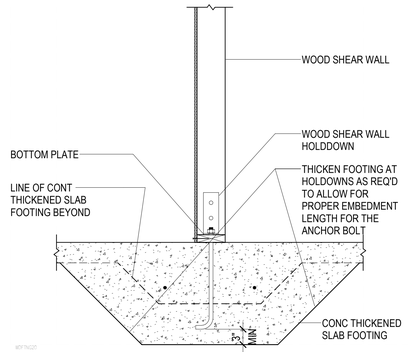
D2 TYPICAL ANCHOR BOLT DETAIL
SB502 NO SCALE



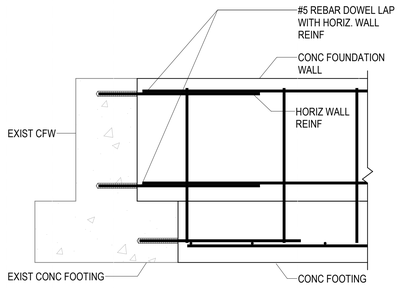
D3 TYPICAL WOOD SHEAR WALL AT INTERIOR THICKENED SLAB FOOTING
SB502 NO SCALE



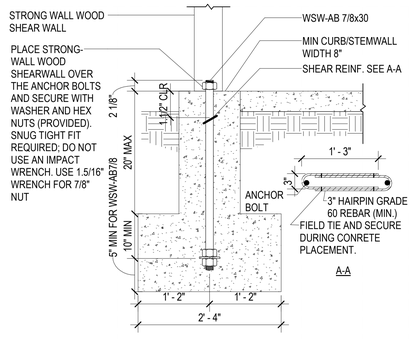
D4 TYPICAL WOOD BEARING WALL AT INTERIOR THICKENED SLAB FOOTING
SB502 NO SCALE



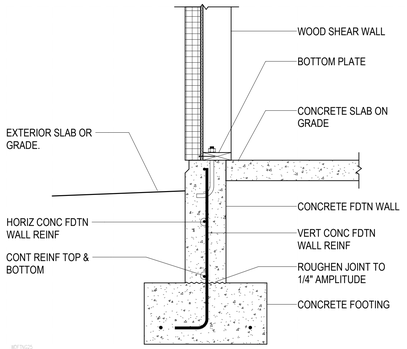
D5 THICKENED SLAB FOOTING AT HOLDDOWNS
SB502 NO SCALE



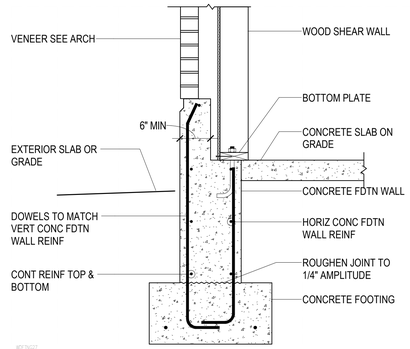
C1 CONCRETE GAP TO EXISTING FOOTING
SB502 NO SCALE



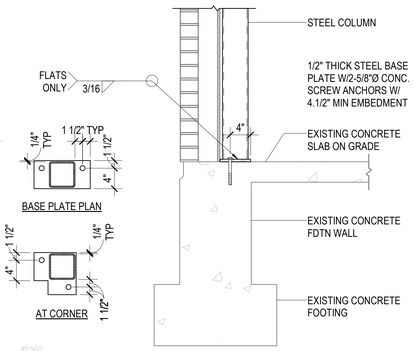
C2 SIMPSON STRONGWALL FOUNDATION DETAIL
SB502 NO SCALE



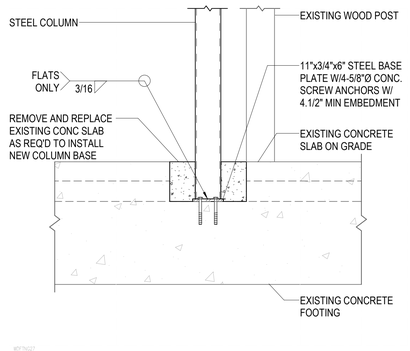
C4 TYPICAL EXTERIOR WOOD SHEAR WALL AT CONCRETE FOUNDATION WALL
SB502 NO SCALE



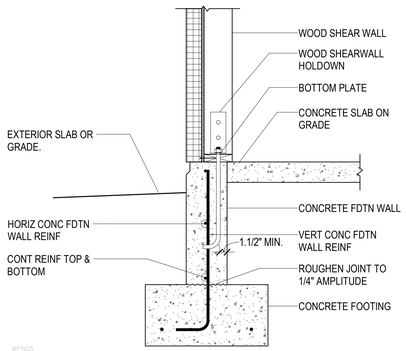
C5 TYPICAL WOOD SHEAR WALL WITH VENEER ON CONCRETE FOUNDATION WALL
SB502 NO SCALE



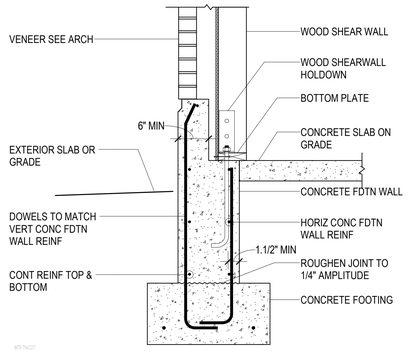
B1 NEW STEEL COLUMN ON EXISTING FOUNDATION WALL
SB502 NO SCALE



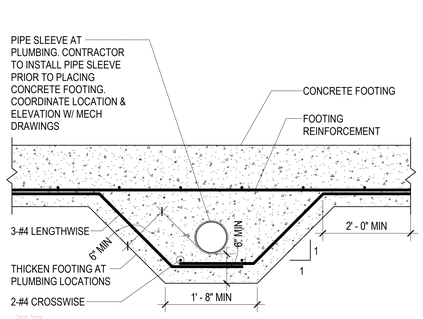
B2 NEW STEEL COLUMN ON EXISTING FOOTING
SB502 NO SCALE



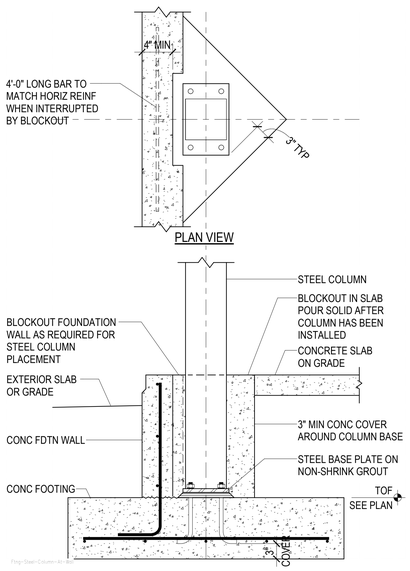
A1 TYPICAL EXTERIOR WOOD SHEAR WALL AT CONCRETE FOUNDATION WALL
SB502 NO SCALE



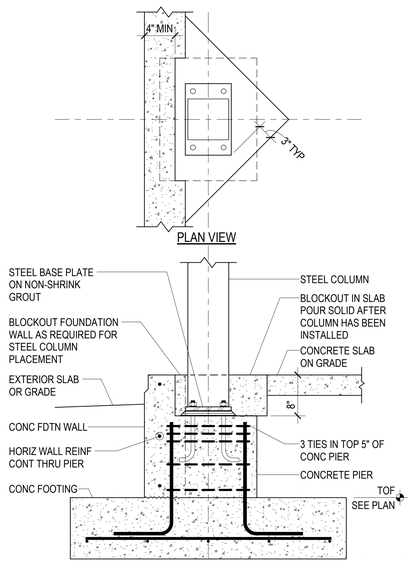
A2 TYPICAL WOOD SHEAR WALL WITH VENEER ON CONCRETE FOUNDATION WALL
SB502 NO SCALE



A3 PLUMBING SLEEVE THROUGH CONCRETE FOOTING
SB502 NO SCALE



A4 TYPICAL STEEL COLUMN BASE AGAINST CONCRETE FOUNDATION WALL
SB502 NO SCALE



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KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

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LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. #178779
MARK W. HARRIS
UTAH

06/14/2019

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

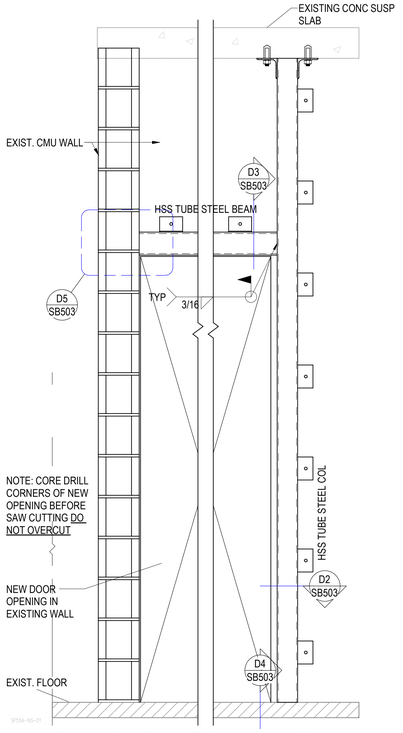
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ISSUE
CONFORMANCE SET
AUGUST 28, 2019

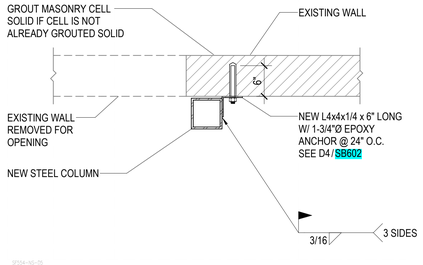
SHEET NAME
TYPICAL FOOTING & FOUNDATION DETAILS

SHEET NUMBER
SB502

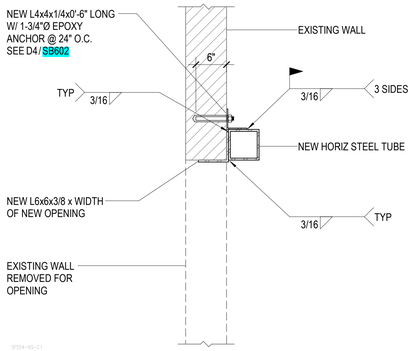
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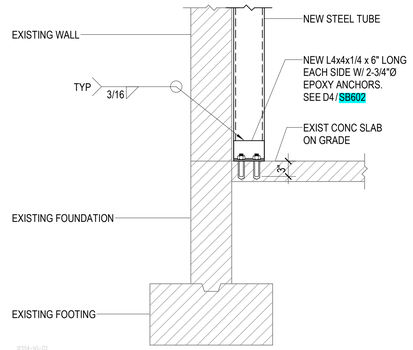
C1 / SB503 TYPICAL NEW OPENING REINFORCING IN EXISTING WALL USING STEEL TUBES
NO SCALE



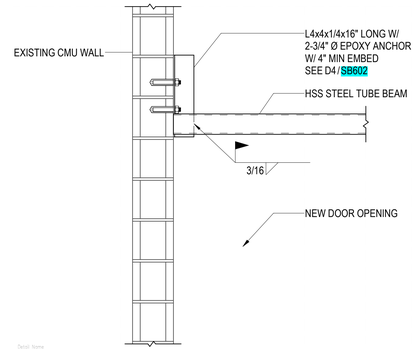
D2 / SB503 TYPICAL NEW STEEL TUBE CONNECTION TO EXISTING WALL (JAMB, PLAN VIEW)
NO SCALE



D3 / SB503 TYPICAL NEW STEEL TUBE CONNECTION TO EXISTING WALL (HEAD)
NO SCALE



D4 / SB503 TYPICAL CONNECTION OF NEW STEEL TUBE TO EXISTING CONCRETE SALB ON GRADE
NO SCALE



D5 / SB503 TYPICAL CONNECTION OF STEEL BEAM TO EXISTING MASONRY WALL
NO SCALE

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UTAH
06/14/2019

MHTN PROJECT NO. PROJ #2018576

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REVISIONS
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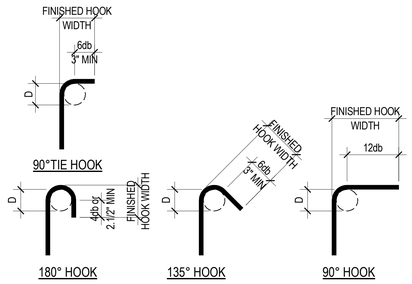
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ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
NEW WALL OPENING DETAILS

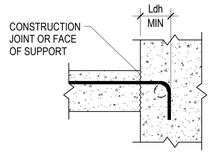
SHEET NUMBER
SB503

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END HOOK SCHEDULE					
BAR SIZE	D	FINISHED HOOK WIDTH			
		180° HOOK	135° HOOK	90° HOOK	90° TIE HOOK
#3	2.1/4"	3"	4.1/4"	6"	4"
#4	3"	4"	4.1/2"	8"	4.1/2"
#5	3.1/4"	5"	5.1/2"	10"	6"
#6	4.1/2"	6"	8"	12"	--
#7	5.1/4"	7"	9"	14"	--
#8	6"	8"	10.1/2"	16"	--
#9	9.1/2"	11.3/4"	--	19"	--
#10	10.3/4"	13.1/4"	--	22"	--
#11	12"	14.3/4"	--	24"	--
#14	18.1/4"	21.3/4"	--	31"	--
#18	24"	28.1/2"	--	41"	--

D1 / SB601 REINFORCEMENT END HOOK SCHEDULE
NO SCALE



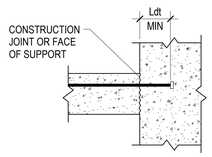
TENSION HOOK DEVELOPMENT LENGTH (Ldh)					
BAR SIZE	NORMAL WEIGHT CONCRETE, f'c = PSI				
	3,000	4,000	4,500	5,000	6,000
#3	6"	6"	6"	6"	6"
#4	8"	7"	7"	7"	7"
#5	10"	9"	8"	8"	7"
#6	12"	10"	10"	9"	8"
#7	14"	12"	11"	11"	10"
#8	16"	14"	13"	12"	11"
#9	18"	15"	14"	14"	13"
#10	20"	17"	16"	15"	14"
#11	22"	19"	18"	17"	16"
#14	37"	32"	31"	29"	27"
#18	50"	43"	41"	39"	35"

NOTES:
1. VALUES HERE VALID FOR ALL CASES IF:
   SIDE COVER ≥ 2.1/2"
   END COVER ≥ 2"

2. MULTIPLY VALUES IN SCHEDULE BY 1.33 FOR LIGHTWEIGHT CONCRETE

3. MULTIPLY VALUES IN SCHEDULE BY 1.2 FOR USE WITH EPOXY COATED REBAR

D2 / SB601 TENSION HOOK DEVELOPMENT SCHEDULE
NO SCALE



TENSION HEADED BAR DEVELOPMENT LENGTH (Ldt)					
BAR SIZE	NORMAL WEIGHT CONCRETE, f'c = PSI				
	3,000	4,000	4,500	5,000	6,000
#3	7"	6"	6"	6"	6"
#4	9"	8"	8"	7"	7"
#5	11"	10"	9"	9"	8"
#6	14"	12"	11"	11"	10"
#7	16"	14"	13"	12"	11"
#8	18"	16"	15"	14"	13"
#9	20"	18"	17"	16"	14"
#10	23"	20"	19"	18"	16"
#11	25"	22"	21"	20"	18"

NOTES:
1. VALUES HERE VALID FOR ALL CASES IF:
   A. CLEAR COVER OF BAR ≥ 2*db. WHERE db IS BAR DIAMETER IN INCHES
   B. CLEAR SPACING BETWEEN BARS ≥ 4*db
   C. NET BEARING AREA OF HEAD Abrg ≥ 4*Ab, WHERE Ab IS AREA OF BAR

2. MULTIPLY VALUES IN SCHEDULE BY 1.2 FOR USE WITH EPOXY COATED REBAR.

3. FOR GRADE 60 REINFORCING ONLY.

D3 / SB601 TENSION HEADED BAR DEVELOPMENT SCHEDULE
NO SCALE

CONCRETE REINFORCING BAR DEVELOPMENT AND LAP SPLICE LENGTH SCHEDULE																							
BAR SIZE	f'c = 3000 PSI				f'c = 4000 PSI				f'c = 4500 PSI				f'c = 5000 PSI				f'c = 6000 PSI				f'c = ALL	
	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ld	Lt	Lsb	Lsbt	Ldc	Lsc
#3	17"	22"	22"	28"	15"	19"	19"	25"	14"	18"	18"	23"	13"	17"	17"	22"	12"	16"	16"	20"	8"	12"
#4	22"	29"	29"	38"	19"	25"	25"	33"	18"	24"	24"	31"	17"	23"	23"	29"	16"	21"	21"	27"	10"	15"
#5	28"	36"	36"	47"	24"	31"	31"	41"	23"	30"	30"	38"	22"	28"	28"	36"	20"	26"	26"	33"	12"	19"
#6	33"	43"	43"	56"	29"	37"	37"	49"	27"	35"	35"	46"	26"	34"	34"	44"	24"	31"	31"	40"	15"	23"
#7	48"	63"	63"	81"	42"	54"	54"	71"	40"	51"	51"	67"	38"	49"	49"	63"	34"	45"	45"	58"	17"	27"
#8	55"	72"	72"	93"	48"	62"	62"	81"	45"	59"	59"	76"	43"	56"	56"	72"	39"	51"	51"	66"	19"	30"
#9	62"	81"	81"	105"	54"	70"	70"	91"	51"	66"	66"	86"	48"	63"	63"	81"	44"	57"	57"	74"	22"	34"
#10	70"	91"	91"	118"	61"	79"	79"	102"	57"	74"	74"	96"	54"	71"	71"	92"	50"	64"	64"	84"	24"	39"
#11	78"	101"	101"	131"	67"	87"	87"	114"	64"	82"	82"	107"	60"	78"	78"	102"	55"	71"	71"	93"	27"	43"
#14	93"	121"	NA	NA	81"	105"	NA	NA	76"	99"	NA	NA	72"	94"	NA	NA	66"	86"	NA	NA	33"	NA
#18	124"	161"	NA	NA	108"	140"	NA	NA	101"	132"	NA	NA	96"	125"	NA	NA	88"	114"	NA	NA	43"	NA

NOTES:
1. DEFINITIONS:
   Ld: TENSION DEVELOPMENT LENGTH FOR REINFORCEMENT SATISFYING THE FOLLOWING CONDITIONS:
   SLABS AND WALLS: CLEAR SPACING > 2db AND CONCRETE CLEAR COVER > db
   BEAMS AND COLUMNS: CLEAR COVER SPACING > db AND CONCRETE CLEAR COVER > db
   Lt: DEVELOPMENT LENGTH FOR TOP BARS IN TENSION
   Lsb: TENSION LAP SPLICE LENGTH FOR OTHER THAN TOP BARS (CLASS B)
   Lsbt: TENSION LAP SPLICE LENGTH OF TOP BARS.
   Ldc: DEVELOPMENT LENGTH FOR BARS IN COMPRESSION
   Lsc: TIED COLUMN LAP SPLICE IN COMPRESSION
   db: NOMINAL BAR DIAMETER (INCHES)
   TOP BARS: HORIZONTAL BEAM REINFORCEMENT WITH MORE THAN 12 INCHES OF CONCRETE CAST BELOW

2. MULTIPLY VALUES IN SCHEDULE BY 1.5 IF CLEAR SPACING OR CONCRETE COVER DO NOT MEET REQUIREMENTS FOR Ld IN NOTE 1.

3. MULTIPLY VALUES IN SCHEDULE BY 1.3 FOR USE IN LIGHTWEIGHT AGGREGATE CONCRETE.

4. FOR EPOXY COATED BAR: MULTIPLY VALUES IN SCHEDULE BY 1.5 FOR BARS WITH CLEAR COVER < 3db OR CLEAR SPACING < 6db. OTHERWISE MULTIPLY VALUES BY 1.2.

5. a. FOR BUNDLED BARS OF THREE OR LESS MULTIPLY LENGTHS BY 1.2.
   b. FOR BUNDLED BARS OF FOUR OR MORE MULTIPLY LENGTHS BY 1.33.
   c. INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED.

6. SCHEDULE LENGTHS ARE FOR fy=60ksi REINFORCING, MULTIPLY LENGTHS BY 1.25 FOR fy=75ksi REINFORCING.

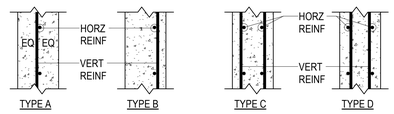
7. LAP SPLICES ARE NOT PERMITTED FOR #14 & #18 BARS. USE BAR COUPLERS PER G.S.N.

D4 / SB601 CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE
NO SCALE

CONCRETE FOUNDATION WALL SCHEDULE					
MARK	THICK	HORIZONTAL REINFORCING	VERTICAL REINFORCING	T & B HORIZ. BARS	PLACEMENT
CFW-1	8"	#5 @ 15" O.C.	#4 @ 16" O.C.	1-#5	TYPE A
CFW-2	1' - 0"	#4 @ 13" O.C. E.F.	#4 @ 18" O.C. E.F.	2-#5	TYPE C

NOTES:
1. HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS THRU CONSTRUCTION & CONTROL JOINTS.
2. SPLICES IN HORIZONTAL WALL REINFORCING SHALL BE TYPE Lsb, STAGGERED SUCH THAT SPLICES DO NOT OVERLAP. SPLICES IN TWO CURTAINS SHALL NOT OCCUR IN THE SAME LOCATION.

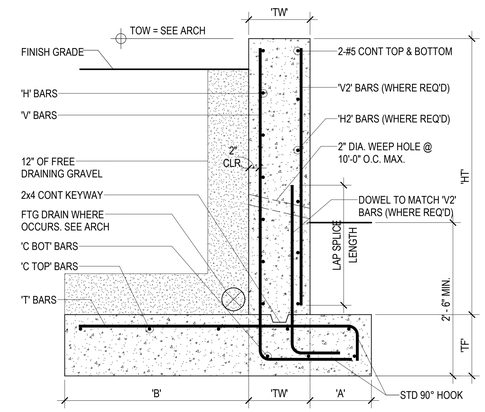
PLACEMENT TYPE



E.F. = EACH FACE
O.F. = OUTSIDE FACE (AGAINST SOIL)
I.F. = INSIDE FACE
3L = THREE LAYERS

CONCRETE FOOTING SCHEDULE													
MARK	WIDTH	LENGTH	THICK	CROSSWISE REINFORCING				LENGTHWISE REINFORCING				REMARKS
				NO.	SIZE	LENGTH	SPACE	NO.	SIZE	LENGTH	SPACE	
FTS2.0	2' - 0"	CONT.	1' - 0"	--	NONE	REQ'D	--	3	#4	CONT.	9"	
FC2.0	2' - 0"	CONT.	1' - 0"	--	NONE	REQ'D	--	3	#4	CONT.	9"	
FC3.0	3' - 0"	CONT.	1' - 0"	--	NONE	REQ'D	--	3	#4	CONT.	9"	
FS3.0	3' - 0"	3' - 0"	1' - 0"	4	#4	2' - 6"	10"	4	#4	2' - 6"	10"	
FM5.0	5' - 0"	5' - 0"	1' - 6"	8 8	#5 #5	4' - 6" 4' - 0"	7.7" 7.7"	8 8	#5 #5	4' - 6" 4' - 6"	7.7" 7.7"	TOP BOTTOM
FM-1	2' - 6"	6' - 0"	1' - 6"	8 8	#4 #4	2' - 0" 2' - 0"	9.6" 9.6"	4 4	#4 #4	5' - 6" 5' - 6"	8.5" 8.5"	TOP BOTTOM
FM-2	3' - 0"	11' - 0"	2' - 0"	15 15	#4 #4	2' - 6" 2' - 6"	9.1" 9.1"	3 3	#5 #5	10' - 6" 10' - 6"	15.7" 15.7"	TOP BOTTOM

1. PLACE ALL FOOTING REINFORCING IN BOTTOM OF FOOTING WITH 3" CLEAR CONCRETE COVER UNLESS NOTED OTHERWISE.
2. TOP REINFORCING, WHERE SPECIFIED, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" CLEAR CONCRETE COVER.
3. SPOT FOOTINGS SHALL BE CENTERED UNDER COLUMNS AND CONTINUOUS FOOTINGS SHALL BE CENTERED UNDER WALLS, UNLESS NOTED OTHERWISE.
4. ALL FOOTINGS SHALL BE FORMED. FOOTINGS SHALL NOT BE EARTH FORMED OR OVERSIZED WITHOUT WRITTEN PERMISSION FROM THE STRUCTURAL ENGINEER.
5. HOOK ENDS OF CROSSWISE BARS AT MAT FOOTINGS (FM-1 & FM-2)

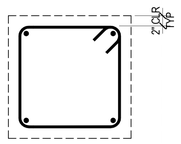


CONCRETE RETAINING WALL SCHEDULE																			
MARK	'HT'	'A'	'B'	'TW'	'TF'	'V' BARS		'H' BARS		'V2' BARS		'H2' BARS		'T' BARS		'C TOP' BARS		'C BOT' BARS	
						SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE	SIZE	SPACE
CRW-1	4' - 6"	6"	1' - 4"	8"	1' - 0"	#5	9"	#5	9"	-	-	-	-	#5	9"	3- #5	12"	2- #5	8"

NOTES:
1. 'V' BARS SHALL NOT BE SPLICED BELOW MID-HEIGHT OF WALL
2. FOR WALLS INDICATED BY (*), ONE HALF OF THE 'V' BARS CAN BE DISCONTINUED FROM MID-HEIGHT TO TOP OF WALL.

A1 / SB601 TYPICAL CONCRETE RETAINING WALL SCHEDULE AND DETAIL
NO SCALE

CONCRETE PIER SCHEDULE					
MARK	DIMENSIONS		REINFORCING		REMARKS
	DEPTH	WIDTH	VERTICAL	TIES	
CP-1	1' - 4"	1' - 4"	4- #7	#4 @ 6" O.C.	



CP-1

A3 / SB601 TYPICAL CONCRETE PIER REINFORCEMENT/TIE DIAGRAM
NO SCALE

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NO #178779
MARK HARRIS
UTAH
06/14/2019

MHTN PROJECT NO. PROJ #2018576

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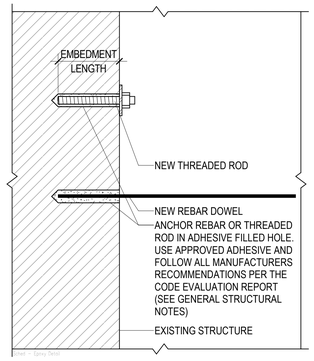
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SHEET NAME
CONCRETE SCHEDULES

SHEET NUMBER
SB601

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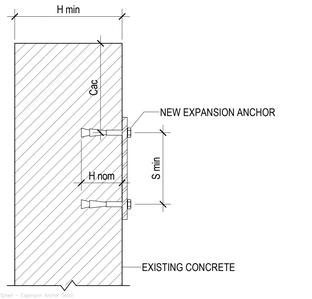
ADHESIVE ANCHORS IN CONCRETE SCHEDULE			
REINFORCING BAR		THREADED ROD	
DOWEL SIZE	EMBEDMENT LENGTH (SEE NOTE #2)	SIZE	EMBEDMENT LENGTH (SEE NOTE #2)
#3	4"	3/8"Ø	4 1/2"
#4	6"	1/2"Ø	6"
#5	9"	5/8"Ø	7 1/2"
#6	10"	3/4"Ø	9"
#7	12 1/2"	7/8"Ø	10 1/2"
#8	13"	1"Ø	12"
#9	14"	1 1/4"Ø	15"
#10	18"		
#11	19"		

NOTES:

1. THIS SCHEDULE SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED ON THE DRAWINGS AND AT OTHER LOCATIONS WITH APPROVAL OF THE STRUCTURAL ENGINEER.
2. EMBEDMENT LENGTHS SPECIFIED ON PLANS OR DETAILS TAKE PRECEDENCE OVER EMBEDMENT LENGTHS IN THIS SCHEDULE.
3. WHERE THE THICKNESS OF THE EXISTING CONCRETE MEMBER IS NOT SUFFICIENT TO ACHIEVE SCHEDULED EMBEDMENT AND SPECIFIED CLEAR COVER FOR THE ANCHOR, CONTACT THE STRUCTURAL ENGINEER.
4. SEE GENERAL STRUCTURAL NOTES FOR LIST OF APPROVED ADHESIVES AND OTHER REQUIREMENTS FOR ADHESIVE ANCHORING.

D4 / SB602 ADHESIVE ANCHORS INTO EXISTING STRUCTURE SCHEDULE

NO SCALE



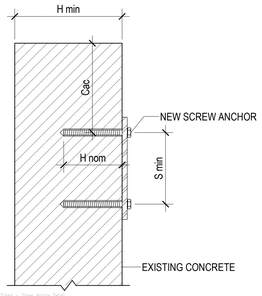
EXPANSION ANCHORS IN CONCRETE SCHEDULE				
ANCHOR SIZE	MINIMUM EDGE DISTANCE (Cac)	EMBEDMENT LENGTH (H nom)	MINIMUM CONCRETE THICKNESS (H min)	MINIMUM ANCHOR SPACING (S min)
3/8"Ø	6.1/2"	2.7/8"	4.1/2"	3.3/4"
1/2"Ø	10"	3.7/8"	6"	5"
5/8"Ø	10"	5.1/8"	8"	6"
3/4"Ø	16"	5.3/4"	10"	7"

NOTES:

1. THIS SCHEDULE SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED ON THE DRAWINGS. ANCHORS AT OTHER LOCATIONS MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
2. EDGE DISTANCE, Cac, AND EMBEDMENT LENGTHS, H nom, AND ANCHOR SPACING SPECIFIED ON PLANS OR DETAILS TAKE PRECEDENCE OVER VALUES IN THIS SCHEDULE.
3. ANCHORS LOCATED WHERE THE THICKNESS OF THE EXISTING CONCRETE MEMBER DOES NOT MEET THE REQUIRED MINIMUM CONCRETE THICKNESS MUST BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.
4. SEE GENERAL STRUCTURAL NOTES FOR LIST OF APPROVED ANCHORS AND OTHER REQUIREMENTS FOR USING EXPANSION ANCHORS.

C4 / SB602 EXPANSION ANCHORS IN CONCRETE SCHEDULE

NO SCALE



SCREW ANCHORS IN CONCRETE SCHEDULE				
ANCHOR SIZE	MINIMUM EDGE DISTANCE (Cac)	EMBEDMENT LENGTH (H nom)	MINIMUM CONCRETE THICKNESS (H min)	MINIMUM ANCHOR SPACING (S min)
3/8"Ø	3.3/4"	3.1/4"	5"	3"
1/2"Ø	4.1/2"	4"	6.1/4"	3.1/2"
5/8"Ø	6.3/8"	5.1/2	8.1/2"	3.3/4"
3/4"Ø	7.5/16"	6.1/4"	10"	4.1/2"

NOTES:

1. THIS SCHEDULE SHALL BE USED ONLY WHERE SPECIFICALLY REFERENCED ON THE DRAWINGS AND AT OTHER LOCATIONS WITH APPROVAL OF THE STRUCTURAL ENGINEER.
2. EDGE DISTANCE, Cac, AND EMBEDMENT LENGTHS, H nom, AND ANCHOR SPACING SPECIFIED ON PLANS OR DETAILS TAKE PRECEDENCE OVER VALUES IN THIS SCHEDULE.
3. ANCHORS LOCATED WHERE THE THICKNESS OF THE EXISTING CONCRETE MEMBER DOES NOT MEET THE REQUIRED MINIMUM CONCRETE THICKNESS MUST BE APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION..
4. SPECIAL INSPECTION IS REQUIRED DURING INSTALLATION OF ALL SCREW ANCHORS PER THE CODE EVALUATION REPORT FOR THE ANCHOR AND THE QUALITY ASSURANCE SECTION OF THE GENERAL STRUCTURAL NOTES.
5. SEE GENERAL STRUCTURAL NOTES FOR LIST OF APPROVED ANCHORS AND OTHER REQUIREMENTS FOR USING SCREW ANCHORS.
6. SCREW ANCHORS SHALL ONLY BE USED IN INTERIOR DRY LOCATIONS

B4 / SB602 SCREW ANCHORS IN CONCRETE SCHEDULE

NO SCALE

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MARK HARRIS
UTAH

06/14/2019

MHTN PROJECT NO. PROJ #2018576

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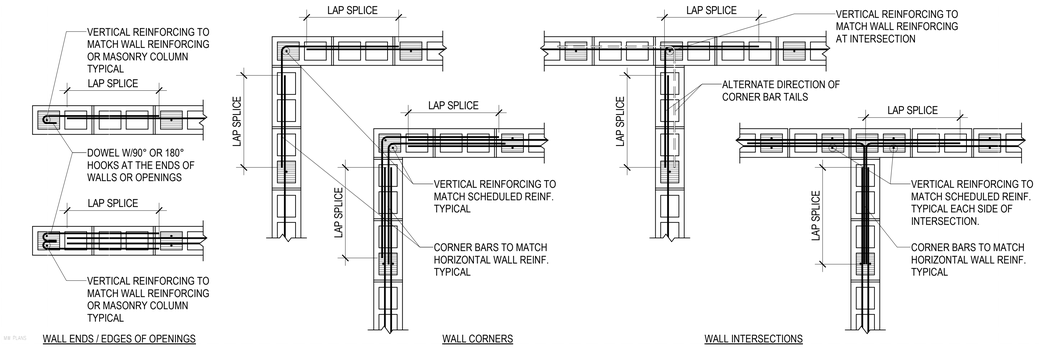
SHEET NAME
CONCRETE ANCHOR SCHEDULES

SHEET NUMBER
SB602

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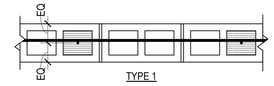
MASONRY WALL SCHEDULE						
			REINFORCING			
MARK	WIDTH	MATERIAL	VERTICAL	HORIZONTAL	TYPE	REMARKS
MW-1	8"	CMU	#5 @ 32" O.C.	#5 @ 48" O.C.	TYPE 1	

NOTES
1. SEE PLANS, DETAILS AND GENERAL STRUCTURAL NOTES FOR ADDITIONAL REINFORCING REQUIREMENTS.
2. GROUT SOLID ALL CELLS BELOW GRADE, CELLS CONTAINING EMBEDS (HSA'S, DBA'S, ANCHOR BOLTS, ETC.), AND CELLS CONTAINING REINFORCING. CONSOLIDATE GROUT AS PER THE GENERAL STRUCTURAL NOTES.
3. HORIZONTAL WALL REINFORCING SHALL CONTINUE THROUGH MASONRY LINTELS. WHERE BOTH HORIZONTAL WALL REINFORCING AND LINTEL REINFORCING OCCUR IN THE SAME COURSE, THE LARGER BARS ARE TO REPLACE THE SMALLER BARS.



D2 / SB611 — TYPICAL MASONRY WALL END, CORNER AND INTERSECTION DETAILS

NO SCALE



D5 / SB611 — TYPICAL MASONRY WALL TYPES - PLAN VIEW

NO SCALE

MASONRY REINFORCING BAR LAP SPLICE SCHEDULE										
BAR SIZE	f'm = 2000 psi							f'm = 2500 psi		
	6" CMU	8" CMU		10" CMU		12" CMU		6" BRICK	8" BRICK	
	CLASS	CLASS		CLASS		CLASS		CLASS	CLASS	
	A	A	B	A	B	A	B	A	A	B
#3	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
#4	18"	13"	21"	12"	20"	12"	20"	16"	12"	20"
#5	28"	20"	35"	16"	32"	13"	32"	25"	18"	33"
#6	**	38"	54"	29"	54"	24"	54"	**	34"	54"
#7	-	52"	**	40"	**	33"	63"	-	47"	-
#8	-	**	-	61"	**	50"	**	-	**	-
#9	-	-	-	79"	-	64"	-	-	-	-

NOTES:
1. CLASS A SPLICES MAY BE USED WHEN ONLY ONE BAR IS CONTINUOUS IN THE MASONRY CELL OR COURSE.

2. CLASS B SPLICES SHALL BE USED WHEN TWO BARS ARE CONTINUOUS IN THE MASONRY CELL OR COURSE.

3. ** INDICATES THAT A LAP SPLICE IS NOT ALLOWED AND MECHANICAL BAR COUPLERS ARE REQUIRED FOR THE BAR SPLICES. SPLICES SHALL BE OFFSET 2'-0" TO AVOID CONGESTION.

4. WHERE VERTICAL BARS HAVE A REQUIRED LAP SPLICE GREATER THAN THE HEIGHT OF THE GROUT POUR, THE BAR SPLICE SHALL BE MADE WITH A MECHANICAL BAR COUPLER. WHERE THE HEIGHT OF THE GROUT POUR EXCEEDS 60 INCHES, HIGH LIFT GROUTING PROCEDURES SHALL BE FOLLOWED.

5. WHERE MECHANICAL BAR COUPLERS ARE USED, THE CONNECTOR SHALL DEVELOP 125% OF THE SPECIFIED YIELD STRENGTH OF THE BAR IN TENSION AND COMPRESSION.

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UTAH

06/14/2019

MHTN PROJECT NO. PROJ #2018576

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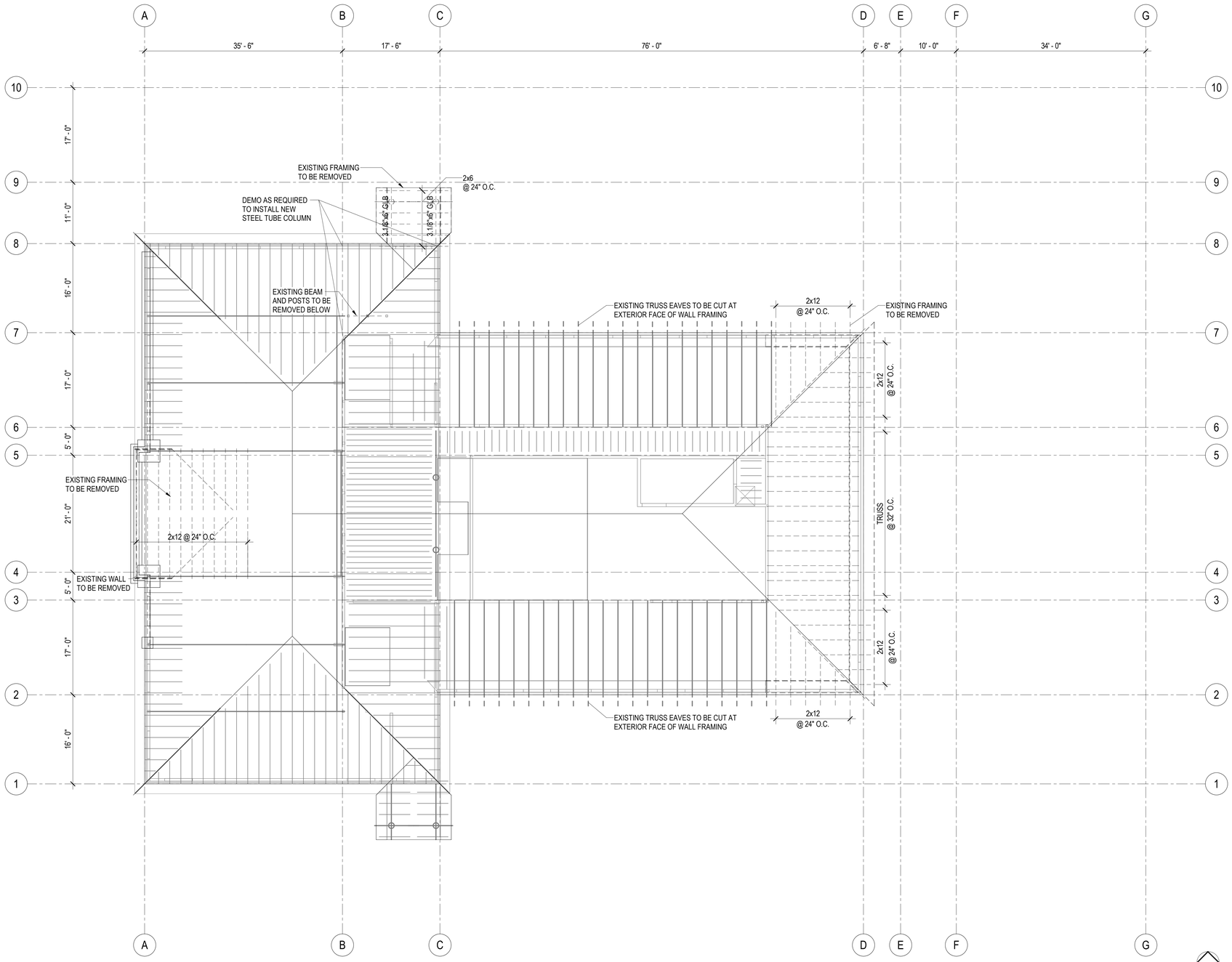
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MASONRY SCHEDULES

SHEET NUMBER
SB611

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B1
SD101 DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

EXISTING BUILDING NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO DETAILING, FABRICATING, ERECTING OR INSTALLING ANY STRUCTURAL ELEMENT. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM IN A TIMELY MANNER SUCH THAT WORK WILL NOT BE DELAYED.

2. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING OF EXISTING STRUCTURE DURING CONSTRUCTION.

3. CONTRACTOR SHALL FIELD VERIFY TOP OF EXISTING FOOTING ELEVATIONS (TOEF) AND FOOTING THICKNESS AT LOACATIONS WHERE NEW CONSTRUCTION INTERFACE WITH EXISTING. TOEF ELEVATIONS SHOWN ARE TAKEN FROM ORIGINAL CONTRACT DOCUMENTS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN TEAM.

4. REFER TO DETAILS FOR OTHER INCIDENTAL AREAS WHERE DEMOLITION IS REQUIRED FOR INSTALLATION OF NEW FRAMING MEMBERS.

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06/14/2019

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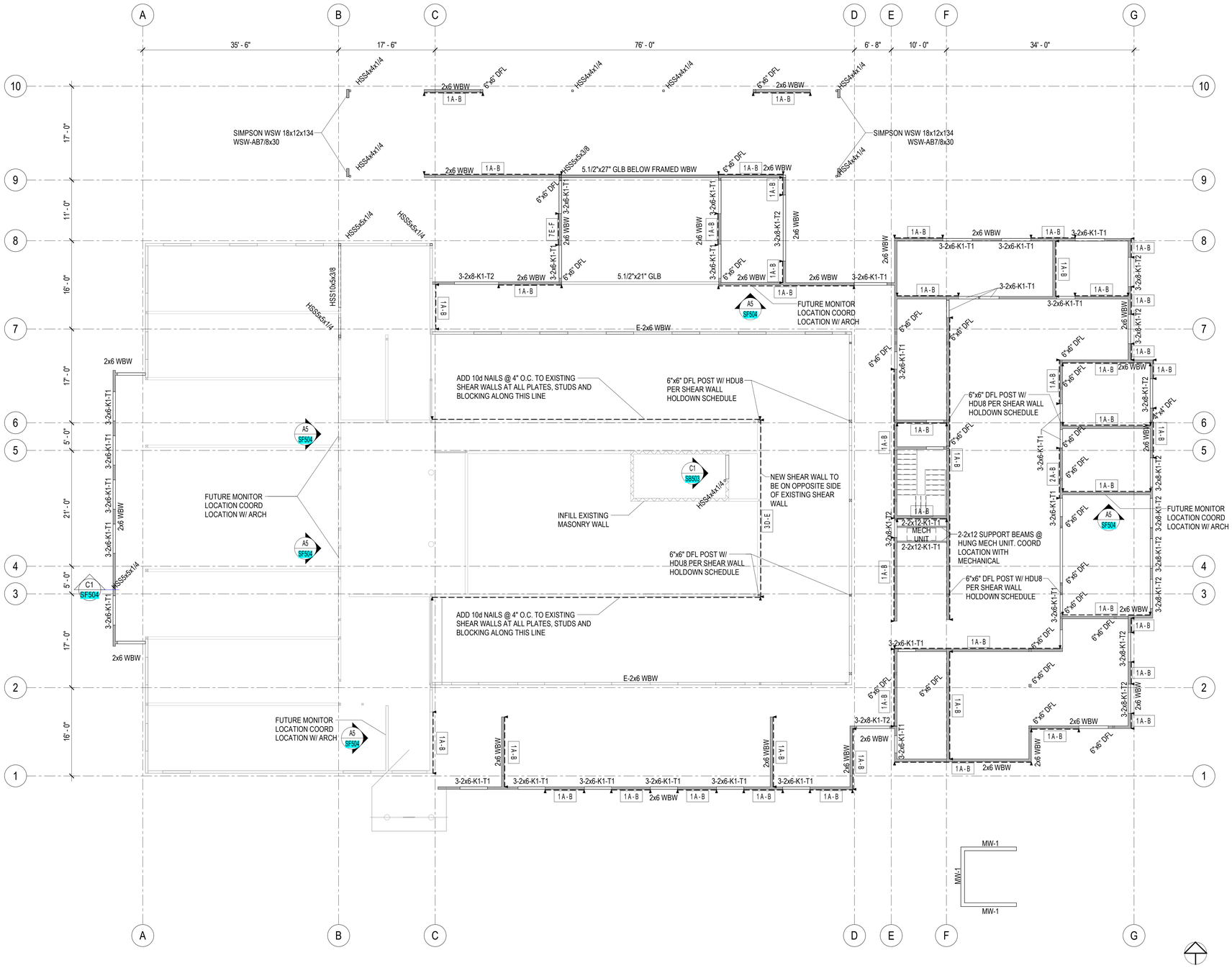
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DEMOLITION PLAN

SHEET NUMBER
SD101

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B1 / SF101A

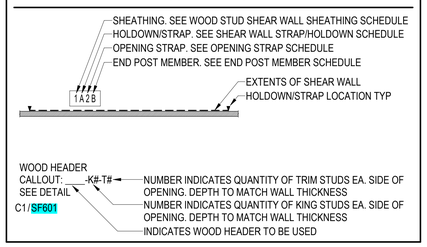
MEZZANINE AND LOW ROOF WALL FRAMING PLAN

SCALE: 1/8" = 1'-0"

WOOD SHEAR WALL NOTES

1. ALL SHEAR WALL SHEATHING SHALL BE A.P.A. RATED SHEATHING, EXPOSURE 1.
2. WHERE STUD MUST BE CUT DUE TO THE PLACEMENT OF ANCHOR BOLTS OR OTHER PRODUCTS, AN ADDITIONAL STUD SHALL BE INSERTED ALONG SIDE.
3. ALL PANEL EDGES SHALL BE SOLID BLOCKED WITH 2x FRAMING MEMBER, EXCEPT USE 3x MEMBER AT NAIL SPACING OF 2" O.C. OR LESS.
4. WHERE WOOD SHEATHING IS APPLIED ON BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, FRAMING MEMBERS SHALL BE 3" NOMINAL OR THICKER AND PANEL JOINTS ON EACH SIDE SHALL BE STAGGERED.
5. DISTANCE FROM PANEL EDGE TO NAILING SHALL BE NOT LESS THAN 3/8".
6. SHEATHING SHALL BE APPLIED WITH EDGES 1/8" APART AT SIDE JOINTS AND 1/16" APART AT END JOINTS.
7. ALL ANCHOR BOLTS FOR BOTTOM PLATE ANCHORAGE INTO CONCRETE OR MASONRY SHALL HAVE 8" MIN EMBEDMENT, TYPICAL UNO.
8. SEE DETAIL B2 / SF601 FOR TYPICAL SHEAR WALL CONSTRUCTION.
9. ALL NAILS AS SPECIFIED SHALL BE COMMON NAILS.
10. PRE-DRILLED HOLES ARE REQUIRED FOR 20d NAILS.

WOOD WALL LEGEND



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06/14/2019

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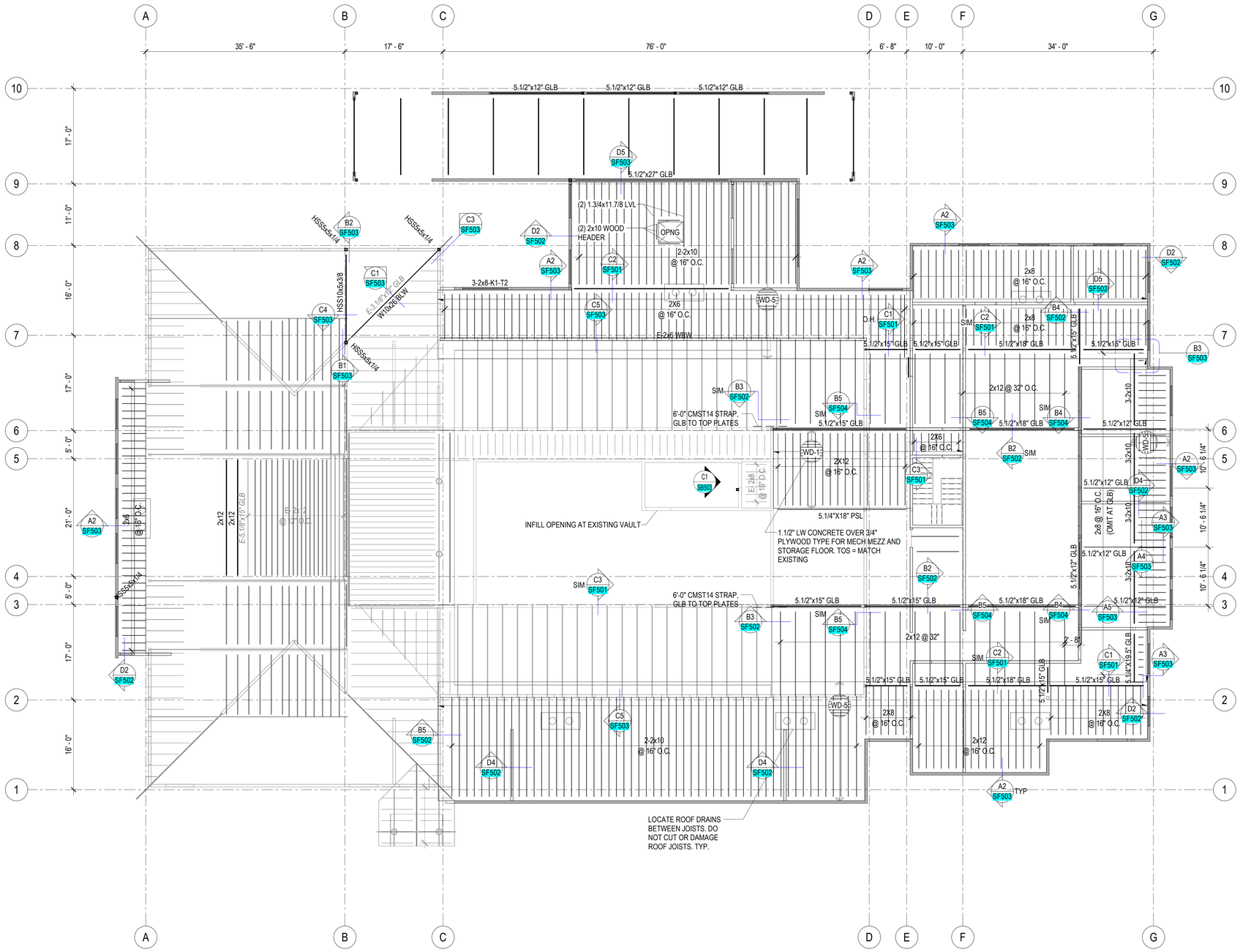
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MEZZANINE WALL FRAMING PLAN

SHEET NUMBER
SF101A

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B1 / SF101B LOW ROOF AND MEZZANINE FRAMING PLAN

SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

1. SEE ARCHITECTURAL FOR ROOF SLOPES AND DRAINS. PROVIDE STEEL FRAMES OR REINFORCE OPENINGS PER DETAIL B4/SF503 - B5/SF503 AT STEEL DECK .

OPEN WEB JOIST FRAMING PLAN NOTES

1. OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN. LOADS SHOWN ARE ASD UNO

2. ±#.##k – INDICATES POINT LOAD ON STEEL JOIST IN ADDITION TO UNIFORM LOADING SHOWN. + INDICATES DOWNWARD AND - INDICATES UPWARD LOADS. LOADS SHOWN ARE UNFACTORED, UNO.

3. T/C X.XXK INDICATES ADDITIONAL TOP CHORD AXIAL FORCE ON STEEL JOIST OR GIRDER. THIS FORCE IS A FACTORED SEISMIC LOAD THAT SHALL BE CONSIDERED IN BOTH TENSION AND COMPRESSION AND INCLUDES APPLICABLE OVERSTRENGTH FACTORS PER THE GOVERNING BUILDING CODE. STEEL JOISTS AND GIRDERS WITH T/C FORCE SHALL BE DESIGNED AS COLLECTOR ELEMENTS.

4. ALL LOADS SUPPORTED BY OPEN WEB STEEL JOISTS AND GIRDERS SHALL BE LOCATED WITHIN 6" OF JOIST OR GIRDER PANEL POINT OR THE JOIST OR GIRDER SHALL BE REINFORCED PER DETAIL B4/SF503

5. HORIZONTAL CROSS BRIDGING SHALL BE SIZED AND SUPPLIED BY THE JOIST MANUFACTURER. CONNECT TO WALLS AS INDICATED ON DETAILS .

6. ALL OPEN WEB STEEL JOISTS WITH A SLOPE OF 3/8" PER FOOT OR LARGER SHALL HAVE SLOPED BEARING SEATS.

7. OPEN WEB STEEL JOISTS AT ROOF AREAS SHALL BE DESIGNED FOR THE FOLLOWING WIND ASD NET UPLIFT LOADS: 35 PSF WITHIN 8 FT OF ROOF EDGES, 20 PSF AT ALL OTHER AREAS.

WOOD FLOOR FRAMING PLAN NOTES

1. RIM JOIST WHERE SHOWN IN DETAILS SHALL BE 2x WIDE AND SHALL MATCH THE DEPTH OF PERPENDICULAR JOIST FRAMING.

2. IN THE ABSENCE OF SPECIFIC JOIST HANGER REQUIREMENTS SEE C1/SF602, TYPICAL JOIST HANGER SCHEDULE.

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LICENSED CERTIFIED STRUCTURAL ENGINEERS
NO. #178779
MARK R. HARRIS
UTAH
06/14/2019

MHTN PROJECT NO. PROJ #2018576

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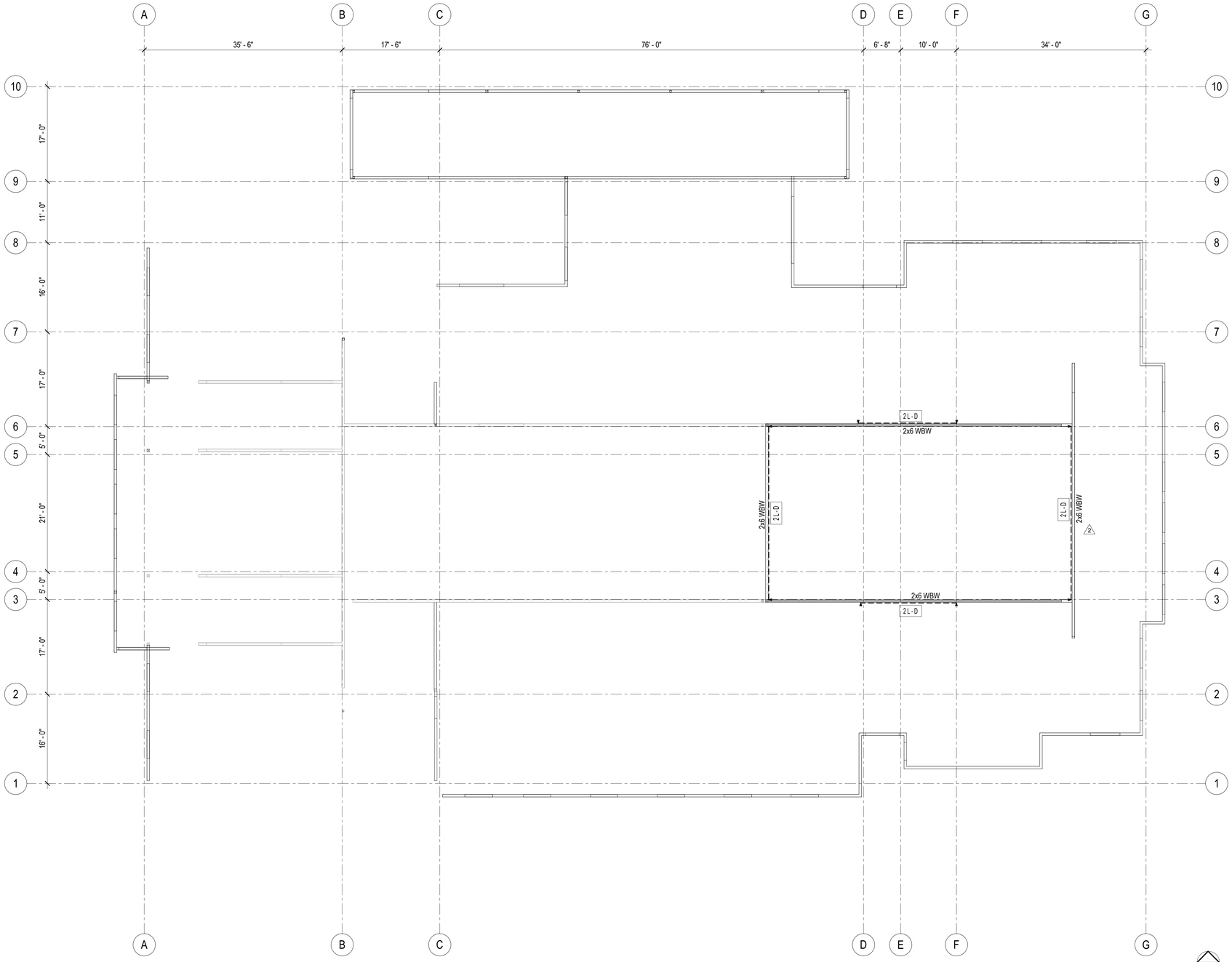
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ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
MEZZANINE FLOOR FRAMING PLAN

SHEET NUMBER
SF101B

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B1 / SF102A ROOF WALL FRAMING PLAN

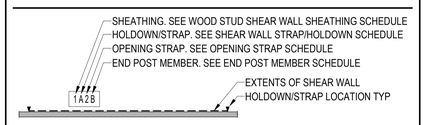
SCALE: 1/8" = 1'-0"

WOOD SHEAR WALL NOTES

1. ALL SHEAR WALL SHEATHING SHALL BE A.P.A. RATED SHEATHING, EXPOSURE 1.
2. WHERE STUD MUST BE CUT DUE TO THE PLACEMENT OF ANCHOR BOLTS OR OTHER PRODUCTS, AN ADDITIONAL STUD SHALL BE INSERTED ALONG SIDE.
3. ALL PANEL EDGES SHALL BE SOLID BLOCKED WITH 2x FRAMING MEMBER, EXCEPT USE 3x MEMBER AT NAIL SPACING OF 2" O.C. OR LESS.
4. WHERE WOOD SHEATHING IS APPLIED ON BOTH FACES OF A WALL AND NAIL SPACING IS LESS THAN 6" O.C. ON EITHER SIDE, FRAMING MEMBERS SHALL BE 3" NOMINAL OR THICKER AND PANEL JOINTS ON EACH SIDE SHALL BE STAGGERED.
5. DISTANCE FROM PANEL EDGE TO NAILING SHALL BE NOT LESS THAN 3/8".
6. SHEATHING SHALL BE APPLIED WITH EDGES 1/8" APART AT SIDE JOINTS AND 1/16" APART AT END JOINTS.
7. ALL ANCHOR BOLTS FOR BOTTOM PLATE ANCHORAGE INTO CONCRETE OR MASONRY SHALL HAVE 8" MIN EMBEDMENT, TYPICAL UNO.
8. SEE DETAIL B2/ SF601 FOR TYPICAL SHEAR WALL CONSTRUCTION.
9. ALL NAILS AS SPECIFIED SHALL BE COMMON NAILS.
10. PRE-DRILLED HOLES ARE REQUIRED FOR 20d NAILS.

WOOD WALL LEGEND

Wall Framing Legend



WOOD HEADER CALLOUT: K#-T#
SEE DETAIL C1/ SF601

- NUMBER INDICATES QUANTITY OF TRIM STUDS EA. SIDE OF OPENING. DEPTH TO MATCH WALL THICKNESS
- NUMBER INDICATES QUANTITY OF KING STUDS EA. SIDE OF OPENING. DEPTH TO MATCH WALL THICKNESS
- INDICATES WOOD HEADER TO BE USED

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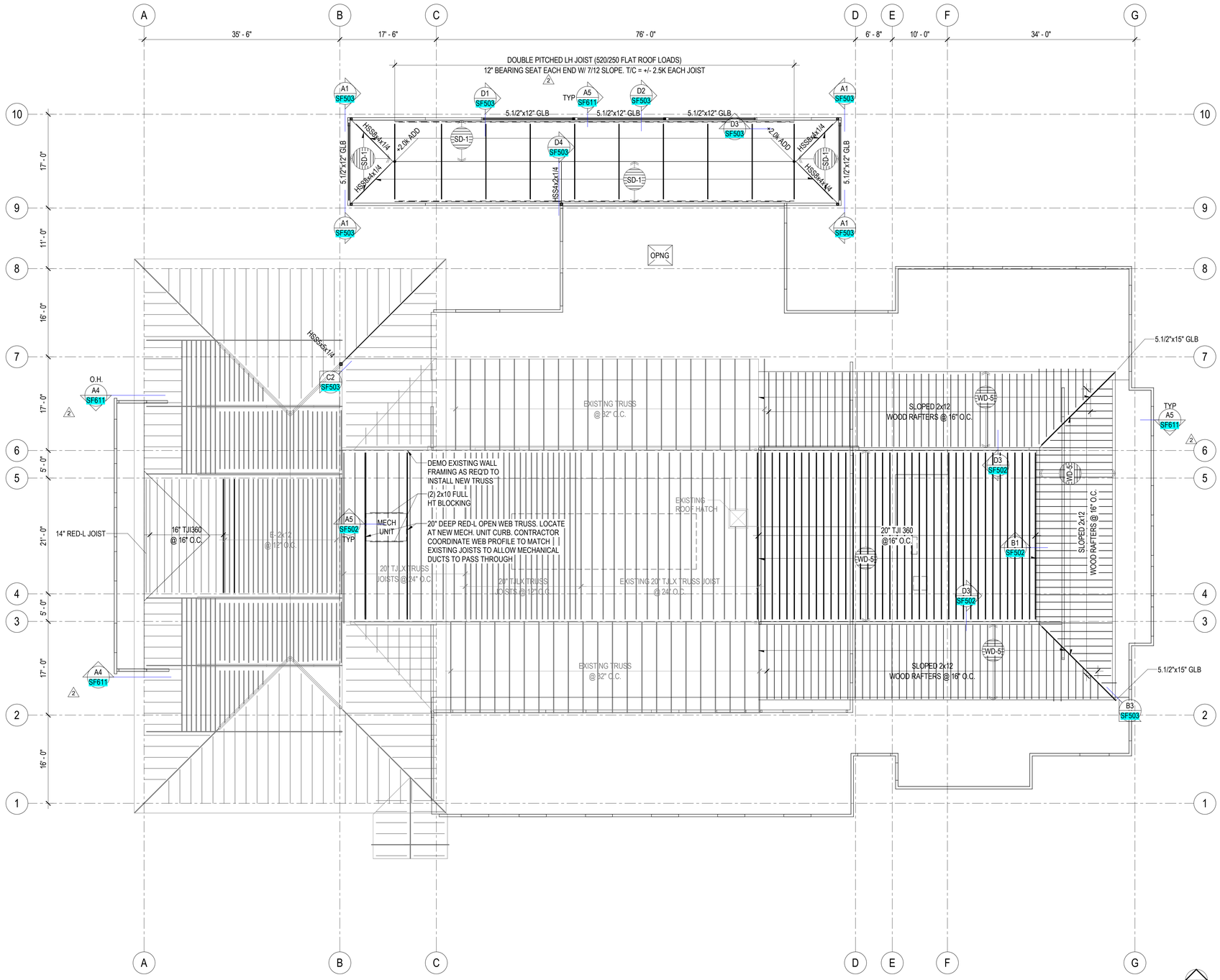
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2	06/28/2019	Addendum #02

ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
WALL FRAMING PLAN

SHEET NUMBER
SF102A

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B1 / SF102B ROOF FLOOR FRAMING PLAN

SCALE: 1/8" = 1'-0"

ROOF FRAMING PLAN NOTES

1. SEE ARCHITECTURAL FOR ROOF SLOPES AND DRAINS. PROVIDE STEEL FRAMES OR REINFORCE OPENINGS PER DETAIL B4/SF503 - B5/SF503 AT STEEL DECK .

OPEN WEB JOIST FRAMING PLAN NOTES

1. OPEN WEB STEEL JOISTS AND JOIST GIRDERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT THE MECHANICAL AND LATERAL LOADS SHOWN ON THE ROOF FRAMING PLANS IN ADDITION TO THE UNIFORM AND POINT LOADS SHOWN. LOADS SHOWN ARE ASD UNO

2. ±#.##k – INDICATES POINT LOAD ON STEEL JOIST IN ADDITION TO UNIFORM LOADING SHOWN. + INDICATES DOWNWARD AND - INDICATES UPWARD LOADS. LOADS SHOWN ARE UNFACTORED, UNO.

3. T/C X.XXK INDICATES ADDITIONAL TOP CHORD AXIAL FORCE ON STEEL JOIST OR GIRDER. THIS FORCE IS A FACTORED SEISMIC LOAD THAT SHALL BE CONSIDERED IN BOTH TENSION AND COMPRESSION AND INCLUDES APPLICABLE OVERSTRENGTH FACTORS PER THE GOVERNING BUILDING CODE. STEEL JOISTS AND GIRDERS WITH T/C FORCE SHALL BE DESIGNED AS COLLECTOR ELEMENTS.

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WOOD FLOOR FRAMING PLAN NOTES

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NO. #178779
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STATE OF UTAH

06/14/2019

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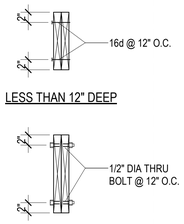
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2	06/28/2019	Addendum #02

ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
ROOF FRAMING PLAN

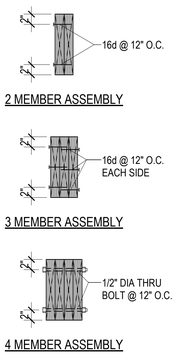
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SF102B

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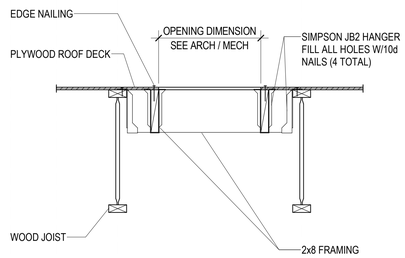
D1 SF501 TYPICAL MULTIPLE MEMBER (2x) WOOD BEAM CONNECTION

NO SCALE



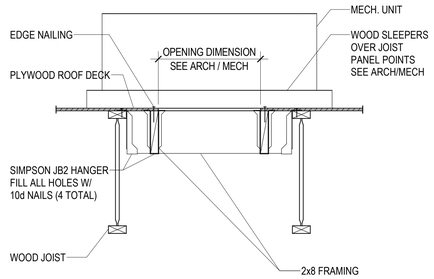
D2 SF501 TYPICAL MULTIPLE MEMBER (LVL) WOOD BEAM CONNECTION

NO SCALE



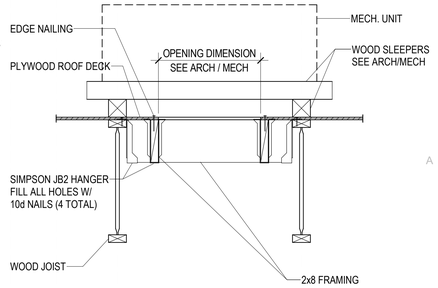
D3 SF501 TYPICAL ROOF OPENING DETAIL

NO SCALE



D4 SF501 TYPICAL MECHANICAL UNIT SUPPORT DETAIL

NO SCALE



D5 SF501 TYPICAL MECHANICAL UNIT SUPPORT DETAIL

NO SCALE

C1 SF501 TYPICAL JOIST BEARING AT GLU-LAM BEAM - ONE SIDE

NO SCALE

C2 SF501 TYPICAL JOIST BEARING AT GLU-LAM BEAM - TWO SIDES

NO SCALE

C3 SF501 TYPICAL WOOD JOIST / DECK BEARING AT WOOD SHEAR WALL

NO SCALE

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NO. #178779
MARK HARRIS
UTAH

06/14/2019

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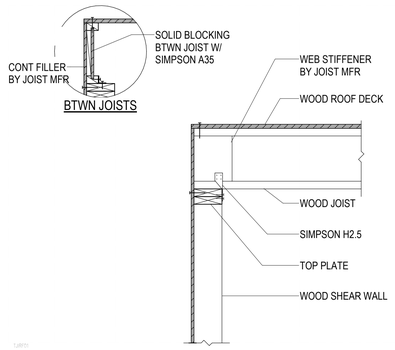
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AUGUST 28, 2019

SHEET NAME
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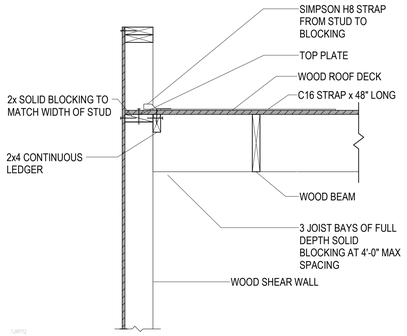
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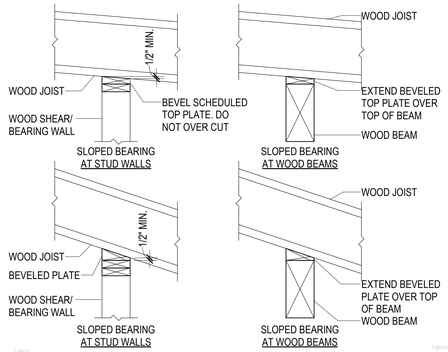
D1 / SF502 — TYPICAL WOOD JOIST / DECK BEARING AT EXTERIOR WOOD SHEAR WALL

NO SCALE



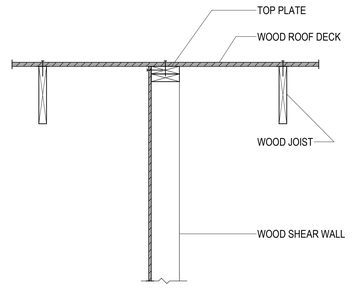
D2 / SF502 — TYPICAL WALL ATTACHMENT AT EXTERIOR WALL JOISTS PARALLEL TO WALL

NO SCALE



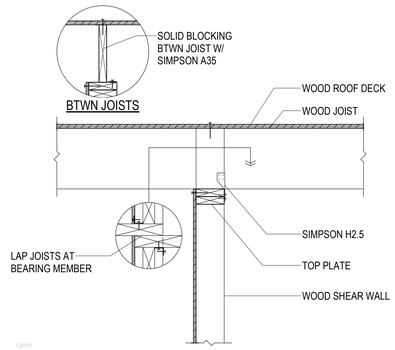
D3 / SF502 — TYPICAL SLOPED JOIST BEARING AT WOOD SHEAR/BEARING WALLS AND WOOD BEAMS

NO SCALE



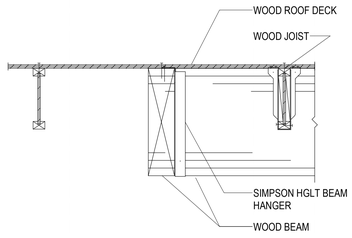
D4 / SF502 — TYPICAL WOOD JOIST / DECK BEARING AT INTERIOR WOOD SHEAR WALL

NO SCALE



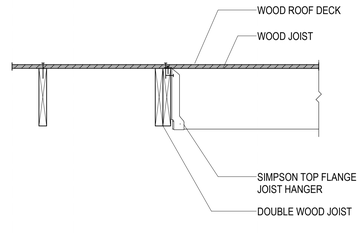
D5 / SF502 — TYPICAL WOOD JOIST / DECK BEARING AT INTERIOR WOOD SHEAR WALL

NO SCALE



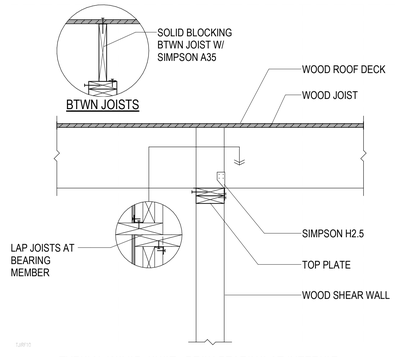
C3 / SF502 — TYPICAL WOOD BEAM TO WOOD BEAM

NO SCALE



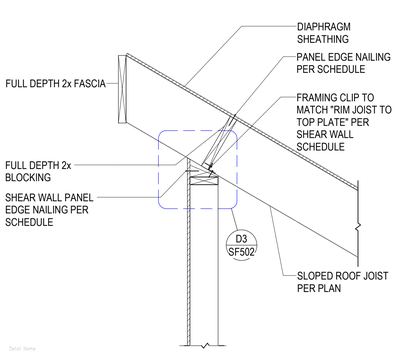
C4 / SF502 — TYPICAL JOIST TO DOUBLE JOIST HEADER

NO SCALE



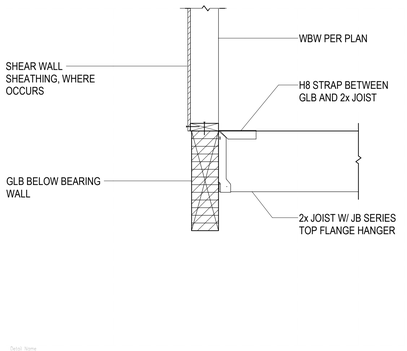
C5 / SF502 — TYPICAL WOOD JOIST / DECK BEARING AT INTERIOR WOOD BEARING WALL

NO SCALE



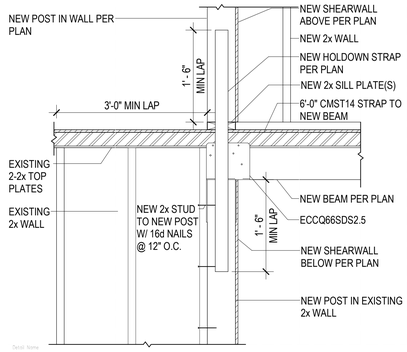
B1 / SF502 — CANTILEVERED JOIST CONDITION AT HIGH ROOF

NO SCALE



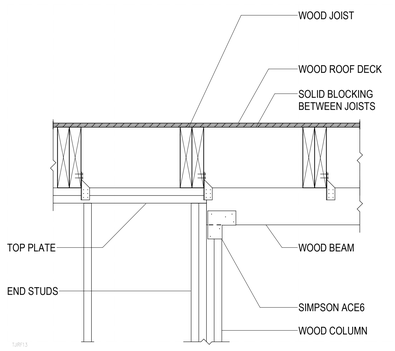
B2 / SF502 — BEARING WALL SUPPORTED BY GLULAM AT MEZZANINE LEVEL

NO SCALE



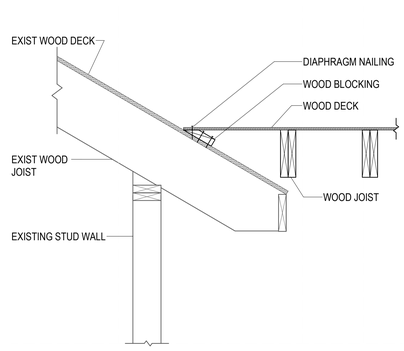
B3 / SF502 — TYPICAL SHEARWALL TO STRAPDOWN CONNECTION

NO SCALE



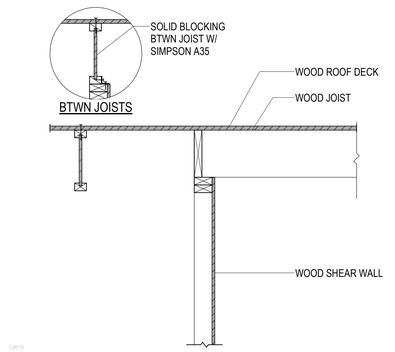
B4 / SF502 — TYPICAL MICROLAM HEADER BEARING AT WOOD SHEAR WALL

NO SCALE



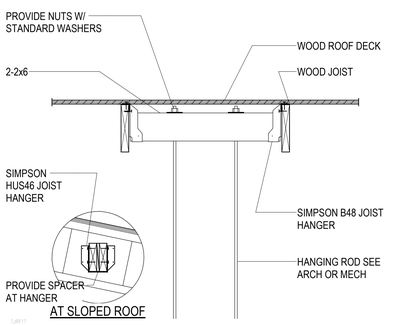
B5 / SF502 — WOOD DECK CONNECTION AT EXISTING BUILDING

NO SCALE



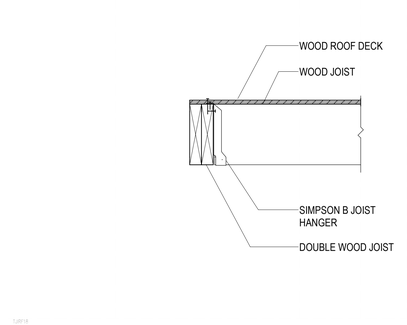
A1 / SF502 — TYPICAL WOOD JOIST TO WOOD SHEAR WALL AT PERPENDICULAR FRAMING

NO SCALE



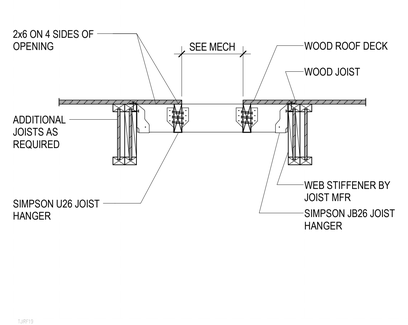
A2 / SF502 — TYPICAL SUPPORT FOR HANGING ELEMENT

NO SCALE



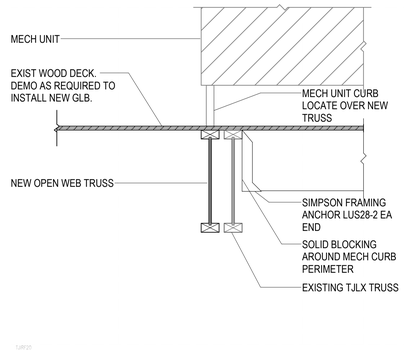
A3 / SF502 — TYPICAL JOIST HEADERS AT OPENING

NO SCALE



A4 / SF502 — TYPICAL ROOF OPENING DETAIL

NO SCALE



A5 / SF502 — TYPICAL MECH UNIT CURB SUPPORT

NO SCALE

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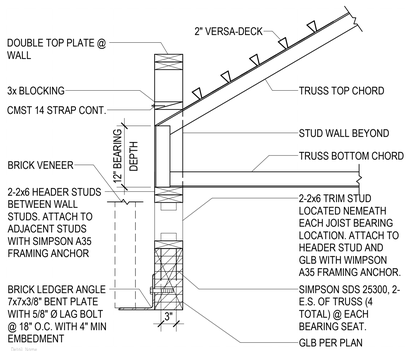
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ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
ROOF FRAMING DETAILS

SHEET NUMBER
SF502

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D1 SF503 TRUSS BEARING CONDITION

NO SCALE

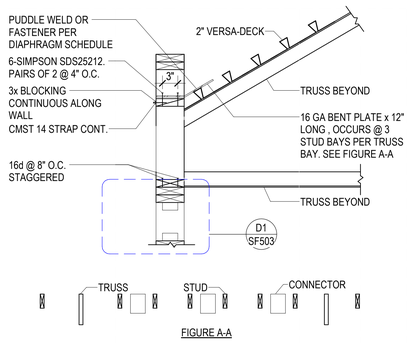
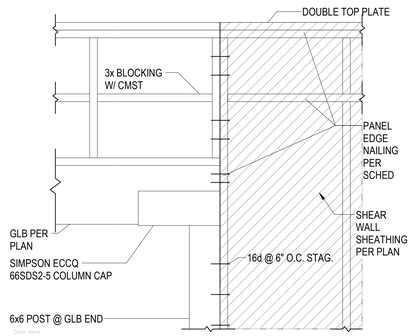


FIGURE A-A

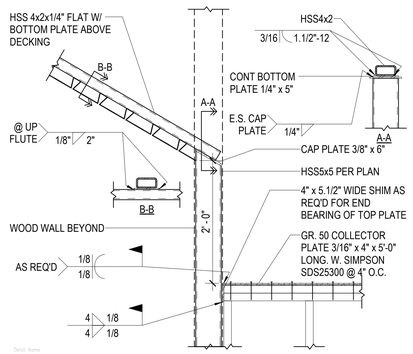
D2 SF503 NORTH & SOUTH WALLS BETWEEN TRUSSES

NO SCALE



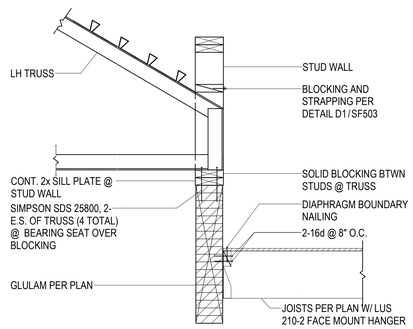
D3 SF503 ELEVATION AT BEAM END

NO SCALE



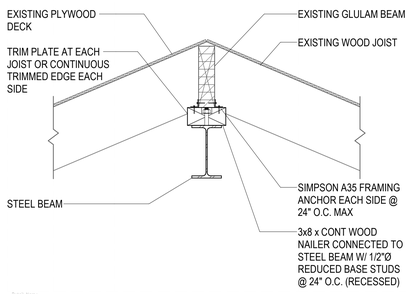
D4 SF503 PROPPED CANTILEVER AT COLLECTOR

NO SCALE



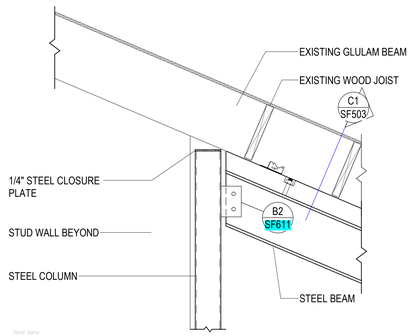
D5 SF503 TRUSS BEARING CONDITION AT GLULAM BEAM

NO SCALE



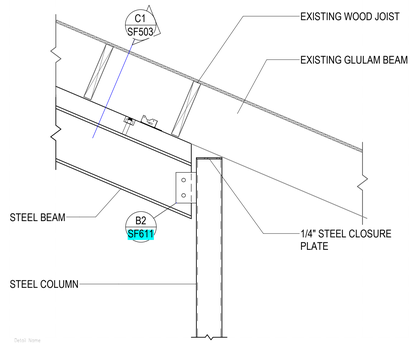
C1 SF503 NEW STEEL BEAM BELOW EXISTING GLULAM BEAM

NO SCALE



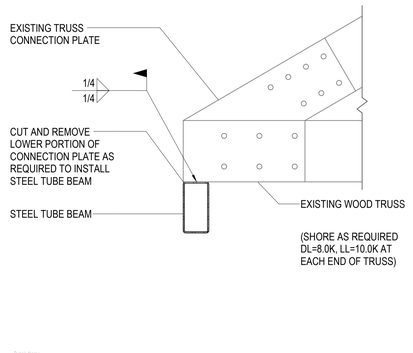
C2 SF503 STEEL BEAM CONNECTION TO STEEL COLUMN

NO SCALE



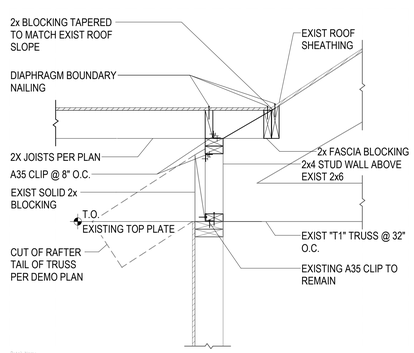
C3 SF503 STEEL BEAM CONNECTION TO STEEL COLUMN

NO SCALE



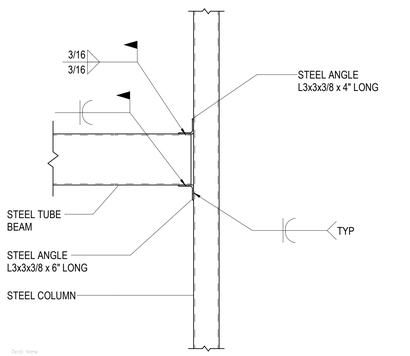
C4 SF503 STEEL TUBE SUPPORT AT EXISTING TRUSS

NO SCALE



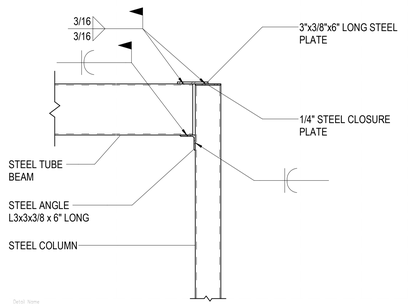
C5 SF503 JOIST BEARING CONDITION AT EXIST BEARING WALL SUPPORTING EXISTING TRUSSES

NO SCALE



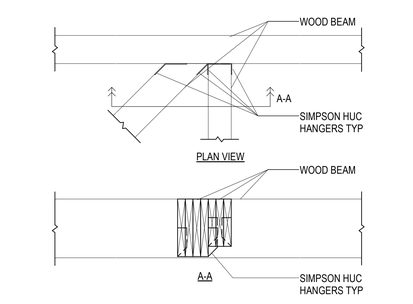
B1 SF503 STEEL TUBE CONNECTION TO STEEL COLUMN

NO SCALE



B2 SF503 STEEL BEAM TO COLUMN CONNECTION

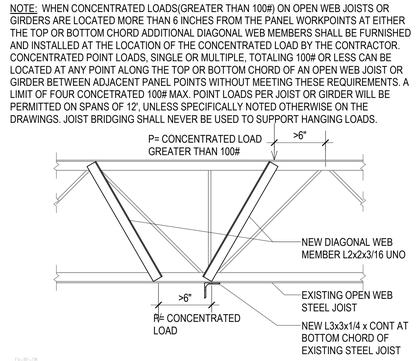
NO SCALE



B3 SF503 WOOD HIP BEAM AT WOOD BEAM

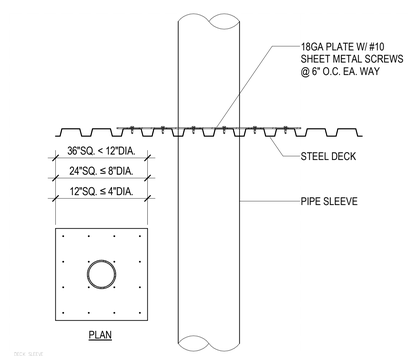
NO SCALE

NOTE: WHEN CONCENTRATED LOADS(GREATER THAN 100#) ON OPEN WEB JOISTS OR GIRDERS ARE LOCATED MORE THAN 6 INCHES FROM THE PANEL WORKPOINTS AT EITHER THE TOP OR BOTTOM CHORD ADDITIONAL DIAGONAL WEB MEMBERS SHALL BE FURNISHED AND INSTALLED AT THE LOCATION OF THE CONCENTRATED LOAD BY THE CONTRACTOR. CONCENTRATED POINT LOADS, SINGLE OR MULTIPLE, TOTALING 100# OR LESS CAN BE LOCATED AT ANY POINT ALONG THE TOP OR BOTTOM CHORD OF AN OPEN WEB JOIST OR GIRDER BETWEEN ADJACENT PANEL POINTS WITHOUT MEETING THESE REQUIREMENTS. A LIMIT OF FOUR CONCETRATED 100# MAX. POINT LOADS PER JOIST OR GIRDER WILL BE PERMITTED ON SPANS OF 12', UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. JOIST BRIDGING SHALL NEVER BE USED TO SUPPORT HANGING LOADS.



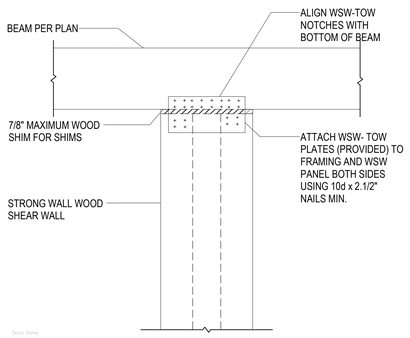
B4 SF503 TYPICAL DETAIL AT ADDITIONAL CONCENTRATED POINT LOAD

NO SCALE



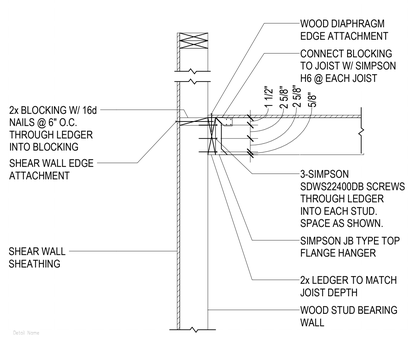
B5 SF503 TYPICAL PIPE SLEEVE HOLE THRU ROOF DECK

NO SCALE



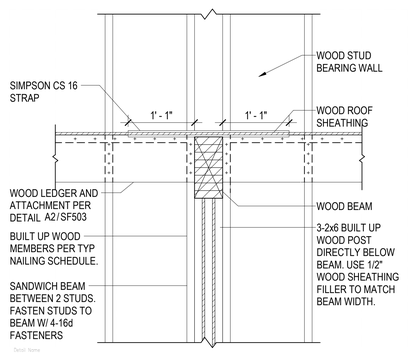
A1 SF503 EXISTING SHEAR WALL TO NEW SHEARWALL CONNECTION

NO SCALE



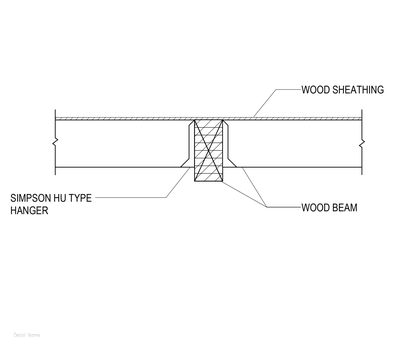
A2 SF503 WOOD JOIST AT WOOD STUD WALL

NO SCALE



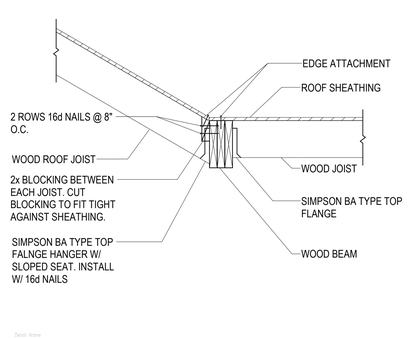
A3 SF503 WOOD BEAM AT WOOD STUD WALL

NO SCALE



A4 SF503 WOOD BEAM AT WOOD BEAM HANGER

NO SCALE



A5 SF503 SLOPED JOIST AT FLAT BEAM

NO SCALE

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LICENSED CERTIFIED STRUCTURAL ENGINEER
NO #178779
MARK W. HARRIS
UTAH

06/14/2019

MHTN PROJECT NO: PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

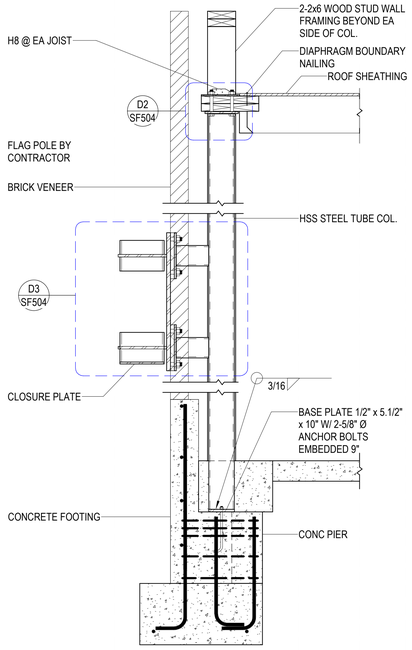
REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

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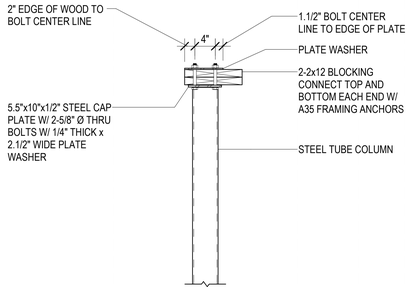
ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
ROOF FRAMING DETAILS

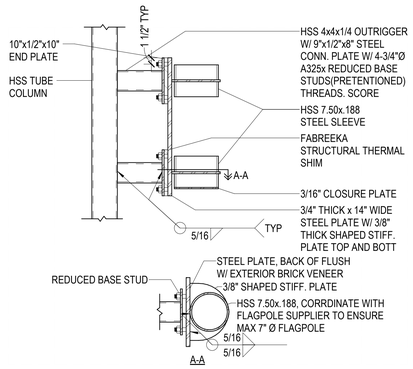
SHEET NUMBER
SF503



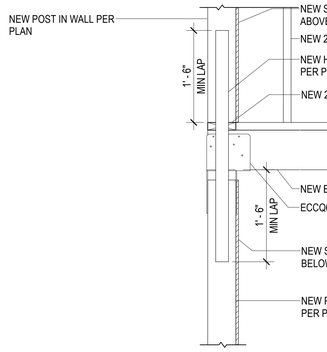
C1 SF504 FLAGPOLE ELEVATION
NO SCALE



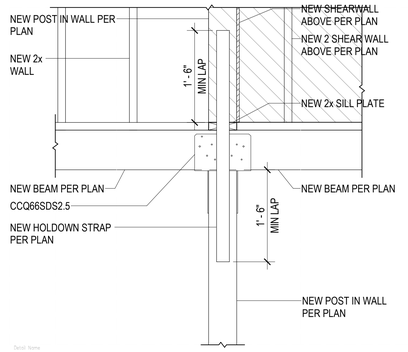
D2 SF504 STEEL COLUMN TO ROOF FRAMING
NO SCALE



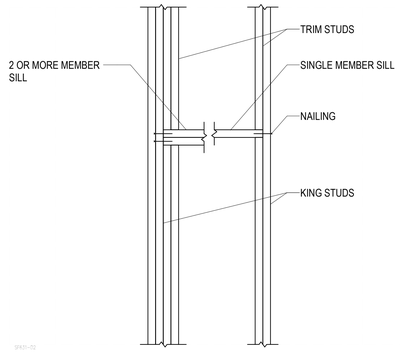
D3 SF504 FLAGPOLE TO STEEL COLLUMN
NO SCALE



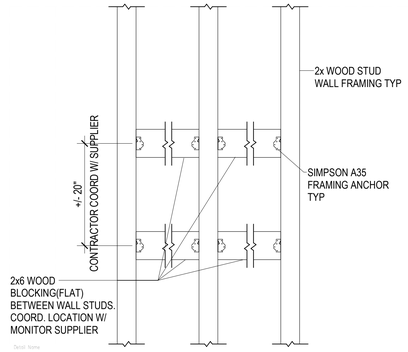
B4 SF504 TYPICAL SHEARWALL TO STRAPDOWN CONNECTION
NO SCALE



B5 SF504 TYPICAL SHEARWALL TO STRAPDOWN CONNECTION
NO SCALE



A4 SF504 TYPICAL WINDOW SILL DETAIL
NO SCALE



A5 SF504 TYPICAL MONITOR SUPPORT BACKING DETAIL
NO SCALE

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LICENSED CERTIFIED STRUCTURAL ENGINEER
NO. #178779
MARK HARRIS
UTAH

06/14/2019

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REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

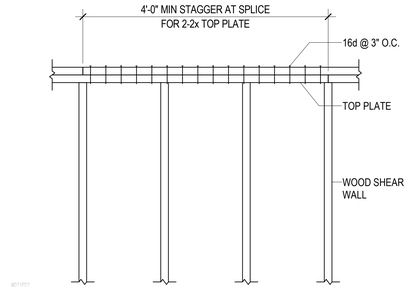
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ISSUE
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AUGUST 28, 2019

SHEET NAME
WALL FRAMING DETAILS

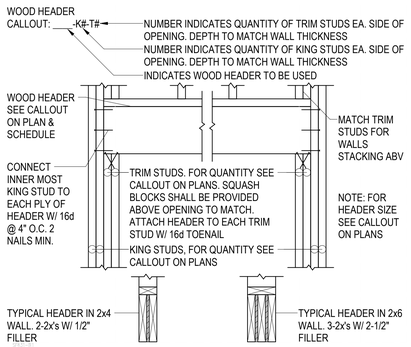
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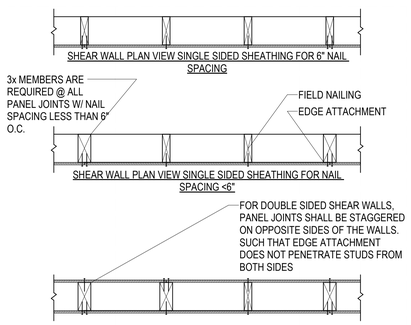
D1 / SF601 TYPICAL TOP PLATE SPLICE AT WOOD SHEAR WALL

NO SCALE



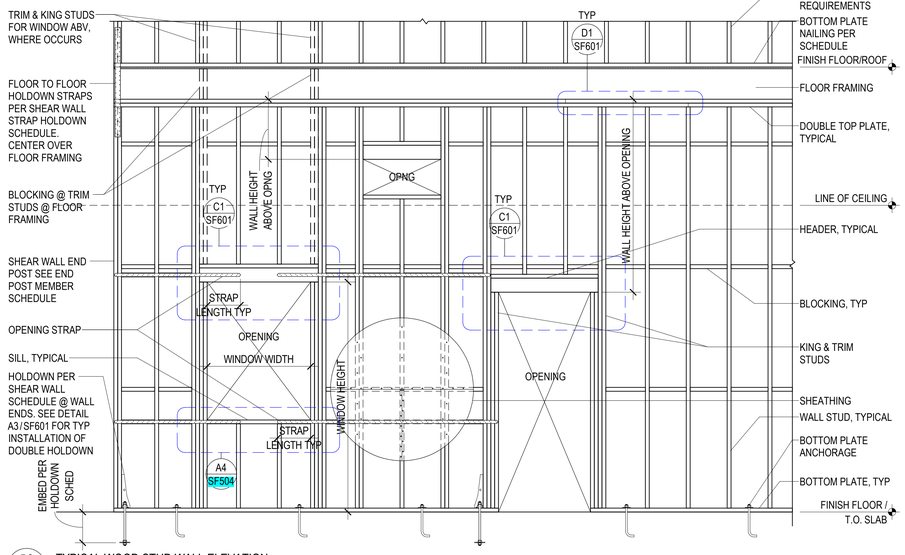
C1 / SF601 TYPICAL WOOD HEADER AND JAMB

NO SCALE



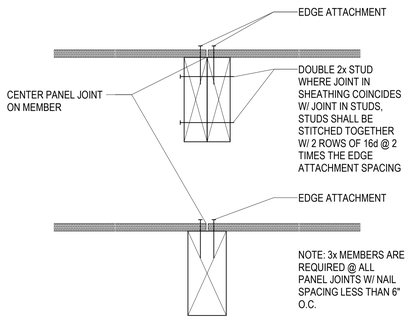
B1 / SF601 SHEARWALL NAILED FACE OF FRAMING MEMBERS - PLAN VIEW

NO SCALE



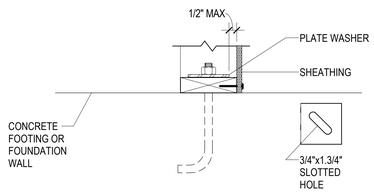
B2 / SF601 TYPICAL WOOD STUD WALL ELEVATION

NO SCALE



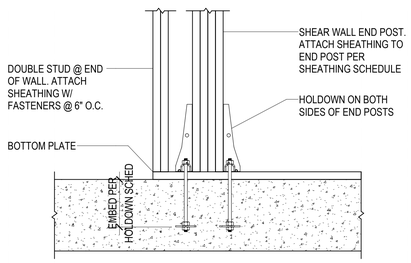
A1 / SF601 TYPICAL WOOD SHEAR WALL PANEL JOINT DETAIL

NO SCALE



A2 / SF601 SHEAR WALL BOTTOM PLATE ANCHORAGE

NO SCALE



A3 / SF601 TYPICAL DOUBLE HOLDOWN

NO SCALE

END POST MEMBER SCHEDULE

MARK	SIZE	NAILING BETWEEN STUDS	REMARKS
A	2-2x4	2 ROWS OF 16d NAILS @ 12" O.C.	DFL
B	2-2x6	2 ROWS OF 16d NAILS @ 12" O.C.	DFL
C	4x4		DFL
D	4x6		DFL
E	6x6		DFL
F	6x8		DFL

WOOD STUD SHEAR WALL SHEATHING SCHEDULE

MARK	SHEATHING THICKNESS	SHEATHING SIDES	NAIL SIZE	PANEL EDGE NAILING SPACING	BOTTOM PLATE ANCHORAGE: ANCHOR BOLTS IN CONCRETE	BOTTOM PLATE ANCHORAGE: FASTENING TO WOOD	RIM JOIST TO TOP PLATE CONNECTION	REMARKS	ALLOWABLE SHEAR CAPACITY (plf)
1	7/16"	ONE SIDE	8d	6"	5/8"Ø @ 48" O.C.	16d @ 6" O.C.	SIMPSON A34 @ 24" O.C.		260
2	7/16"	ONE SIDE	8d	4"	5/8"Ø @ 40" O.C.	16d @ 4" O.C.	SIMPSON A34 @ 16" O.C.		380
3	7/16"	ONE SIDE	8d	3"	5/8"Ø @ 32" O.C.	16d @ 4" O.C.	SIMPSON A34 @ 12" O.C.		490
4	7/16"	ONE SIDE	8d	2"	5/8"Ø @ 24" O.C.	SIMPSON SDWS22400DB@ 8" O.C.	SIMPSON A34 @ 12" O.C.		640
5	15/32"	ONE SIDE	10d	2"	5/8"Ø @ 20" O.C.	SIMPSON SDWS22400DB@ 6" O.C.	SIMPSON A34 @ 8" O.C.		770
6	19/32"	ONE SIDE	10d	2"	5/8"Ø @ 20" O.C.	SIMPSON SDWS22400DB@ 6" O.C.	SIMPSON A34 @ 8" O.C.		870
7	3/8"	BOTH SIDES	8d	3"	5/8"Ø @ 16" O.C.	2 ROWS SIMPSON SDWS22400DB@ 8" O.C.	2 ROWS SIMPSON SDWS22400DB@ 8" O.C.		980
8	3/8"	BOTH SIDES	8d	2"	5/8"Ø @ 12" O.C.	2 ROWS SIMPSON SDWS22400DB@ 8" O.C.	2 ROWS SIMPSON SDWS22400DB@ 8" O.C.		1280
9	15/32"	BOTH SIDES	10d	2"	5/8"Ø @ 8" O.C.	2 ROWS SIMPSON SDWS22400DB@ 6" O.C.	2 ROWS SIMPSON SDWS22400DB@ 6" O.C.		1540
10	19/32"	BOTH SIDES	10d	2"	5/8"Ø @ 8" O.C.	2 ROWS SIMPSON SDWS22400DB@ 6" O.C.	2 ROWS SIMPSON SDWS22400DB@ 6" O.C.		1740

NOTES:
1. ALL SHEAR WALL SHEATHING SHALL BE A.P.A. RATED SHEATHING, EXPOSURE 1.
2. WHERE STUDS MUST BE CUT DUE TO THE PLACEMENT OF ANCHOR BOLTS OR OTHER PRODUCTS, AN ADDITIONAL STUD SHALL BE INSERTED ALONG SIDE.
3. THE WIDTH OF THE NAILED FACE OF FRAMING MEMBERS AND BLOCKING SHALL BE 3" NOMINAL FOR ALL PANEL EDGE NAIL SPACING LESS THAN 6" O.C. SEE DETAIL B1/SF601 FOR ADDITIONAL INFORMATION.
4. NAILS SHALL BE LOCATED AT LEAST 3/8" FROM PANEL EDGES
5. SHEATHING SHALL BE INSTALLED WITH 1/8" GAP BETWEEN SIDE JOINTS AND 1/16" GAP AT END JOINTS.
6. ALL ANCHOR BOLTS FOR BOTTOM PLATE ANCHORAGE INTO CONCRETE OR MASONRY SHALL HAVE 6" MIN EMBEDMENT, TYPICAL UNO.
7. ALL NAILS SHALL MEET THE REQUIREMENTS FOUND IN THE GSN. IF USED, BOX NAILS SHALL BE GALVANIZED.
8. ANCHOR BOLTS SHALL HAVE A 3"x1/4"x3" PLATE WASHER BELOW THE NUT. THE MAXIMUM DISTANCE FROM THE PLATE WASHER TO THE SHEAR WALL SHEATHING SHALL BE 1/2". THE PLATE SHALL BE PERMITTED TO HAVE A DIAGONAL SLOT NO MORE THAN 1.3/4" LONG AND 3/16" LARGER THAN THE BOLT DIAMETER PROVIDED A STANDARD CUT WASHER IS INSTALLED BETWEEN THE PLATE AND THE NUT. SEE DETAIL A2/SF601
9. STUDS IN SHEAR WALL SHALL BE SPACED AT A MAXIMUM OF 16" O.C.
10. ALL PANEL NAILING AT INTERMEDIATE FRAMING MEMBERS SHALL BE 12" O.C. MAXIMUM.

SHEAR WALL HOLDOWN SCHEDULE

MARK	BASIS-OF-DESIGN HOLDOWN	ANCHOR BOLT: SIZE	ANCHOR BOLT: EMBEDMENT CONCRETE PODIUM	REMARKS	ALLOWABLE LOAD (lb) CAPACITY
A	SIMPSON HDU2-SDS2.5	PAB5	6"	USE 5/8"Ø THREADED ROD AT APPLICATIONS WHERE ANCHORAGE IS NOT TO CONCRETE	3075
B	SIMPSON HDU4-SDS2.5	5/8"Ø	6"		4565
C	SIMPSON HDU5-SDS2.5	5/8"Ø	6"		5645
D	SIMPSON HDU8-SDS2.5	7/8"Ø	8.1/2"		7870
E	SIMPSON HDU11-SDS2.5	PAB8	8"	USE 1"Ø THREADED ROD AT APPLICATIONS WHERE ANCHORAGE IS NOT TO CONCRETE	11175
F	SIMPSON HDU14-SDS2.5	PAB8	11"	USE 1"Ø THREADED ROD AT APPLICATIONS WHERE ANCHORAGE IS NOT TO CONCRETE	14390
G	DOUBLE SIMPSON HDU11-SDS2.5	PAB8	8"	USE 1"Ø THREADED ROD AT APPLICATIONS WHERE ANCHORAGE IS NOT TO CONCRETE	22350
H	DOUBLE SIMPSON HDU14-SDS2.5	PAB8	11"	USE 1"Ø THREADED ROD AT APPLICATIONS WHERE ANCHORAGE IS NOT TO CONCRETE	28780

NOTES:
1. NOT ALL SHEAR WALL HOLDOWNS SHOWN IN THIS SCHEDULE ARE USED IN THE DRAWINGS.

SHEAR WALL STRAP HOLDOWN SCHEDULE

MARK	BASIS-OF-DESIGN HOLDOWN	STRAP LENGTH (EA. END)	NAILING (EA. END)	MINIMUM WOOD THICKNESS	REMARKS	ALLOWABLE LOAD (lb) CAPACITY
J	SIMPSON CS20	9"	14-8d			1030
K	SIMPSON CS16	13"	22-8d			1705
L	SIMPSON CS14	16"	30-8d			2490
M	DOUBLE SIMPSON CS14	16"	30-8d PER STRAP 60-8d TOTAL			4980
N	SIMPSON CMST14	30"	66-10d			6490
P	SIMPSON CMST12	39"	86-10d			5215
Q	DOUBLE SIMPSON CMST14	30"	66-10d PER STRAP 132-10d TOTAL			12980
R	DOUBLE SIMPSON CMST12	39"	86-10d PER STRAP 182-10d TOTAL			18430
S	SIMPSON MSTC48B3	21" MIN	38-10d MIN TOP 12-10d FACE OF BEAM 4-10d BOTTOM OF BEAM			

NOTES:
1. NOT ALL SHEAR WALL STRAP HOLDOWNS SHOWN IN THIS SCHEDULE ARE USED IN THE DRAWINGS.

OPENING STRAP SCHEDULE

MARK	BASIS-OF-DESIGN HOLDOWN	STRAP LENGTH (EA. END)	NAILING (EA. END)	REMARKS	ALLOWABLE LOAD (lb) CAPACITY
1	SIMPSON CS20	9"	14-8d		1030
2	SIMPSON CS16	13"	22-8d		1705
3	SIMPSON CS14	16"	30-8d		2490
4	SIMPSON CMST14	30"	66-10d		6490
5	SIMPSON CMST12	39"	86-10d		5215

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06/14/2019

MHTN PROJECT NO. PROJ #2018576

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REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD. USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION
1		

ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
WOOD SHEAR WALL SCHEDULES

SHEET NUMBER
SF601

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DELETED DETAIL AND SCHEDULE

WOOD BEARING WALL SCHEDULE

MARK	WALL FRAMING				WALL ANCHORAGE	REMARKS
	STUDS	SPACING	BOTTOM PLATE	TOP PLATE	BOTTOM PLATE ANCHORAGE	
2x4 WBW	2x6	16"	2x6	DBL 2x6	5/8"Ø A.B. @ 48" O.C.	?
2x6 WBW	2x6	16"	2x6	DBL 2x6	5/8"Ø A.B. @ 48" O.C.	?

NOTES:

1. WHERE STUD MUST BE CUT DUE TO THE PLACEMENT OF ANCHOR BOLTS OR OTHER PRODUCTS, AN ADDITIONAL STUD SHALL BE INSERTED ALONG SIDE.

2. ALL ANCHOR BOLTS FOR BOTTOM PLATE ANCHORAGE INTO CONCRETE OR MASONRY SHALL HAVE 8" MIN EMBEDMENT, TYPICAL UNO.

TYPICAL JOIST HANGER SCHEDULE

JOIST SIZE	MINIMUM FACE MOUNT HANGER	MINIMUM TOP FLANGE HANGER
2x4	LUS24	PF24
2-2x4	LUS24-2	HU24-2TF
2x6	LUS26	JB26
2-2x6	LUS26-2	HU26-2TF
2x8	LUS28	JB28
2-2x8	LUS28-2	HU28-2TF
2x10	LUS210	JB210A
2-2x10	LUS210-2	HUS210-2TF
2x12	LUS210	JB212A
2-2x12	LUS210-2	HUS212-2TF
2x14	LUS210	JB214A
2-2x14	LUS210-2	HUS214-2TF

NOTES:

1. THE SCHEDULED HANGERS SHALL BE USED UNLESS NOTED OTHERWISE.

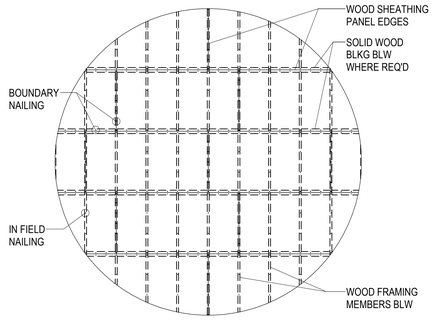
2.SIMPSON STRONG TIE IS USED AS THE BASIS OF DESIGN FOR ALL HANGERS.

3. HANGERS TO BE INSTALLED WITH ALL NAIL HOLES FILLED TO ACHEIVE MAX CAPACITY.

4. AT ROOFS OR EXTERIOR AREAS. HANGER SHALL BE NAILED TO ACHEIVE THE MAXIMUM UPLIFT CAPACITY.

C1 / SF602 — TYPICAL WOOD JOIST HANGER SCHEDULE

NO SCALE



C2 / SF602 — TYPICAL WOOD DIAPHRAGM SHEATHING PANEL LAYOUT - PLAN VIEW

NO SCALE

WOOD DIAPHRAGM SCHEDULE

MARK	WOOD SHEATHING THICKNESS	WOOD SHEATHING EDGES	COMMON NAIL SPACING			NAIL SIZE
			A	B	C	
WD-1	3/4" OR 23/32"	NO BLOCKING REQ'D	6"	6"	12"	10d
WD-2	3/4" OR 23/32"	BLOCKING REQ'D	6"	6"	12"	10d
WD-3	5/8" OR 19/32"	NO BLOCKING REQ'D	6"	6"	12"	10d
WD-4	5/8" OR 19/32"	BLOCKING REQ'D	6"	6"	12"	10d
WD-5	1/2" OR 7/16"	NO BLOCKING REQ'D	6"	6"	12"	10d
WD-6	1/2" OR 7/16"	BLOCKING REQ'D	6"	6"	12"	10d

NOTES:

1. SEE DETAIL C2/SF602 FOR TYPICAL WOOD DIAPHRAGM SHEATHING PANEL LAYOUT.
2. SEE DETAIL FOR TYPICAL WOOD DIAPHRAGM SHEATHING PANEL EDGE BLOCKING.
3. COMMON NAIL SPACING CRITERIA:
   A. CONTINUOUS WOOD SHEATHING PANEL EDGES AND DIAPHRAGM BOUNDARY EDGES.
   B. ALL OTHER WOOD SHEATHING PANEL EDGES.
   C. INTERMEDIATE WOOD SHEATHING PANEL SUPPORTS (IN FIELD NAILING).
4. ALL SHEATHING SHALL BE A.P.A. RATED EXPOSURE 1.

MINIMUM NAILING SCHEDULE

	DESCRIPTION OF BUILDING ELEMENTS	NUMBER AND TYPE OF FASTENER	SPACING AND LOCATION
	ROOF		
1.	BLOCKING BETWEEN CEILING JOISTS, RAFTERS OF TRUSSES TO TOP PLATE OR OTHER FRAMING BELOW	3-8d COMMON OR 3-10d BOX	EACH END, TOENAIL
	BLOCKING BETWEEN RAFTERS OR TRUSS NOT AT THE WALL TP PLATE, TO RAFTERS OR TRUSS	3-8d COMMON	EACH END, TOENAIL
2.	FLAT BLOCKING TO TRUSS AND WEB FILLER	16d COMMON	FACE NAIL
3.	CEILING JOISTS TO TOP PLATE	3-8d COMMON OR 3-10d BOX	EACH END, TOENAIL
4.	CEILING JOIST NOT ATTACHED TO PARALLEL RAFTER, LAPS OVER PARTITIONS (NO THRUST)	3-16d COMMON OR 4-10d BOX	FACE NAIL
5.	CEILING JOIST ATTACHED TO PARALLEL RAFTER (HEEL JOINT)	PER IBC TABLE 2308.7.3.1	FACE NAIL
6.	COLLAR TIE TO RAFTER	3-10d COMMON OR 4-16d BOX	FACE NAIL
7.	RAFTER TO ROOF TRUSS TO TOP PLATE	3-10d COMMON OR 3-16d BOX	TOENAIL
8.	ROOF RAFTERS TO RIDGE VALLEY OR HIP RAFTERS: OR ROOF RAFTER TO 2-INCH RIDGE BEAM	2-16d COMMON OR 3-10d BOX	END NAIL
		3-10d COMMON OR 3-16d BOX	TOENAIL
	WALL		
9.	STUD TO STUD (NOT BRACED AT WALL PANELS	16d COMMON	24" O.C. FACE NAIL
		10d BOX	16" O.C. FACE NAIL
10.	STUD TO STUD AND ABUTTING STUDS AT INTERSECTING WALL CORNERS (AT BRACE WALL PANELS)	16d COMMON	16" O.C. FACE NAIL
		16d BOX	12" O.C. FACE NAIL
11.	BUILT-UP HEADER (2" TO 2" HEADER)	16d COMMON	16" O.C. EACH EDGE, FACE NAIL
		16d BOX	12" O.C. EACH EDGE, FACE NAIL
12.	CONTINUOUS HEADER TO STUD	4-8d COMMON OR 4-10d BOX	TOENAIL
13.	TOP PLATE TO TOP PLATE	16d COMMON	16" O.C. FACE NAIL
		10d BOX	12" O.C. FACE NAIL
14.	TOP PLATE TO TOP PLATE, AT END JOINTS	8-16d COMMON OR 12-10d BOX	EACH SIDE OF END JOINT, FACE NAIL (MINIMUM 24" LAP SPLICE LENGTH EACH SIDE OF END JOINT)
15.	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING (NOT AT BRACED WALL PANELS)	16d COMMON	16" O.C. FACE NAIL
		16d BOX	12" O.C. FACE NAIL
16.	BOTTOM PLATE TO JOIST, RIM JOIST, BAND JOIST OR BLOCKING AT BRACED WALL PANELS	2-16d COMMON OR 3-16d BOX	16" O.C. FACE NAIL
17.	STUD TO TOP OR BOTTOM PLATE	4-8d COMMON OR 4-10d BOX	TOENAIL
		2-16d COMMON OR 3-10d BOX	END NAIL
18.	TOP OR BOTTOM PLATE TO STUD	2-16d COMMON OR 3-10d BOX	END NAIL
19.	TOP PLATES, LAPS AT CORNERS AND INTERSECTIONS	2-16d COMMON OR 3-10d BOX	END NAIL
20.	1" BRACE TO EACH STUD AND PLATE	2-8d COMMON OR 2-10d BOX	FACE NAIL
21.	1"x6" SHEATHING TO EACH BEARING	2-8d COMMON OR 2-10d BOX	FACE NAIL
22.	1"x8" AND WIDER SHEATHING TO EACH BEARING	3-8d COMMON OR 3-10d BOX	FACE NAIL
	FLOOR		
23.	JOIST TO SILL, TOP PLATE, OR GIRDER	3-8d COMMON OR 3-10d BOX	TOENAIL
24.	RIM JOIST, BAND JOIST, OR BLOCKING TO TOP PLATE, SILL OR OTHER FRAMING BELOW	8d COMMON OR 10d BOX	6" O.C. TOENAIL
25.	1"x6" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON OR 2-10d BOX	FACE NAIL
26.	2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON	FACE NAIL
27.	2" PLANKS (PLAN & BEAM - FLOOR & ROOF)	2-16d COMMON	FACE NAIL
28.	BUILT-UP GIRDERS AND BEAMS, 2" LUMBER LAYERS		32" O.C., FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
			24" O.C., FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
29.	LEDGER STRIP SUPPORTING JOISTS OR RAFTERS	3-16d COMMON OR 4-10d BOX	EACH JOIST OR RAFTER, FACE NAIL
30.	JOIST TO BAND JOIST OR RIM JOIST	3-16d COMMON OR 4-10d BOX	END NAIL
31.	BRIDGING OR BLOCKING TO JOIST, RAFTER OR TRUSS	2-8d COMMON OR 2-10d BOX	EACH END, TOENAIL

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06/14/2019

MHTN PROJECT NO. PROJ #2018576

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REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE

NO.△	DATE	DESCRIPTION
1		

ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
WOOD BEARING WALL AND WOOD DIAPHRAGM SCHEDULES

SHEET NUMBER
SF602

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STEEL DECK SCHEDULE

MARK	STEEL DECK				CONCRETE FILL			STEEL DECK ATTACHMENT	MIN. ALLOWABLE SHEAR CAPACITY	NOTES
	PROFILE	MIN I (in⁴/ft)	MIN S (in³/ft)	FINISH	THICKNESS (t)	TYPE	REINFORCEMENT			
SD-1	TYPE VERSA-DEK S ES ACCOUST. 2" DEEP x 18 GA	0.638	0.506	GALVANIZED (G60)	-	-	-	SDA-1	1810 PLF @ 8'-0"	-

NOTES:
1. STEEL DECK SHALL COMPLY WITH LATEST REQUIREMENTS OF THE STEEL DECK INSTITUTE (SDI).
2. SUBMIT CURRENT CODE EVALUATION REPORT (ICC OR IAPMO) WITH LOAD AND LATERAL SHEAR CAPACITIES WITH SHOP DRAWINGS.
3. ALL DECK SHALL BE 3-SPAN CONTINUOUS MINIMUM WHERE POSSIBLE. IN AREAS WHERE 3-SPAN CONDITIONS ARE NOT POSSIBLE THE CONTRACTOR SHALL VERIFY UN-SHORED DECK IS PERMITTED BY THE DECK MANUFACTURER FOR THE SPAN CONDITION, SPAN LENGTH, AND DECK GAUGE. WHERE DECK DOES NOT MEET THE REQUIREMENTS FOR UN-SHORED DECK, THE CONTRACTOR SHALL EITHER PROVIDE HEAVIER GAUGE DECK TO ALLOW FOR UN-SHORED DECK OR PROVIDE SHORING.
4. STEEL DECK WITHOUT CONCRETE FILL SHALL NOT BE USED TO SUPPORT LOADS FROM PLUMBING, HVAC DUCTS, LIGHT FIXTURES, ARCHITECTURAL ELEMENTS OR EQUIPMENT OF ANY KIND, UNLESS SPECIFICALLY NOTED OTHERWISE. LIGHTWEIGHT SUSPENDED ACOUSTICAL CEILINGS WITH A TOTAL WEIGHT PER WIRE NOT EXCEEDING 50# MAY BE HUNG FROM THE STEEL ROOF DECK. THE HANGERS SHOULD BE STAGGERED TO DISTRIBUTE THE LOAD OVER MULTIPLE DECK FLUTES.
5. DECK SHALL HAVE 2" MINIMUM BEARING ON ALL SUPPORTING MEMBERS (MEMBERS PERPENDICULAR TO DECK) UNO. DECKS SHALL HAVE 1.1/2" MINIMUM BEARING AT PARALLEL MEMBERS.
6. SEE TYPICAL DETAILS FOR REINFORCEMENT REQUIRED AT OPENINGS THROUGH STEEL DECK. OPENING REINFORCING SHALL BE INSTALLED PRIOR TO SAW CUTTING OPENINGS.
7. PROVIDE GALVANIZED STEEL DECK ABOVE & BELOW MECHANICAL ROOMS.
8.SEE PLANS AND DETAILS FOR LOCATIONS WHERE ADDITIONAL SLAB REINFORCEMENT IS REQUIRED.

STEEL ANGLE LINTEL SCHEDULE

BEARING EQUALS 1" PER FOOT OF OPENING OR 6" MINIMUM TYPICAL



OPENING SIZE	ANGLE SIZE
0'-0" - 7'-0"	L3.1/2x3.1/2x1/4
7'-0" - 9'-0"	L4x3.1/2x1/4
9'-0" - 10'-0"	L5x3.1/2x1/4

NOTES:
LINTELS ARE DESIGNED TO SUPPORT UNIFORM LOADS CONSISTING ONLY OF WEIGHT OF WALL WITHIN A 60 DEGREE ISOSCELES TRIANGLE AREA ABOVE OPENING.

ALL STEEL LINTELS ARE TO HAVE LONG LEG VERTICAL.

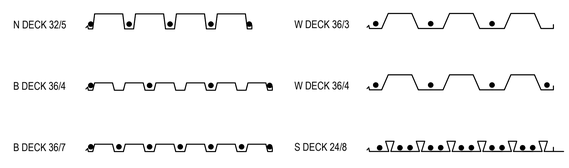
LINTEL SCHEDULE FOR 4" VENEER

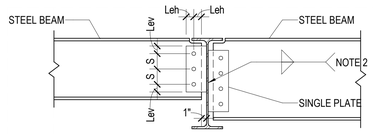
ALL ANGLE LINTELS SHALL BE GALVANIZED.

STEEL DECK ATTACHMENT SCHEDULE

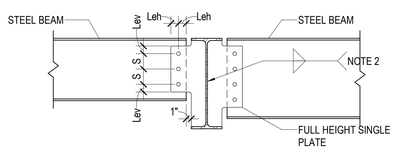
MARK	WELDED			MECHANICAL		
	SUPPORTS	PARALLEL	SIDE LAP	SUPPORTS	PARALLEL	SIDE LAP
SDA-1	PW @ 24/8	PW @ 12" O.C.	TSW @ 12" O.C.	-	-	-

NOTES:
1. PW = PUDDLE WELD - 1/2" EFFECTIVE DIAMETER ARC SPOT WELD AT INTERIOR FLUTES, 1" X 3/8" EFFECTIVE ARC SEAM WELD AT SUPPORTS ADJACENT TO SIDELAP.
2. TSW = TOP SEAM WELD - 1.1/2" LONG TOP SEAM WELDS BETWEEN ADJACENT PIECES OF DECKING. CRIMP SIDE SEAMS BEFORE WELDING INTERLOCKING SEAMS.
3. BP = BUTTON PUNCH - 3/16" BUTTON PUNCH BETWEEN ADJACENT PIECES OF DECK. CRIMP SEAMS BEFORE BUTTON PUNCHING INTERLOCKING SEAMS.
4. PAF = POWDER ACTUATED FASTENER -
   HILTI X-HSN 24 AT SUPPORTS 3/16" THROUGH 3/8" THICK
   HILTI X-ENP-19 L15 AT SUPPORTS 1/4" THICK AND GREATER
   PNEUTEK SDK61075 AT SUPPORTS 0.113" THROUGH 0.155" THICK
   PNEUTEK SDK63075 AT SUPPORTS 0.155" THROUGH 0.250" THICK
   PNEUTEK K64062 AT SUPPORTS 0.187" THROUGH 0.312" THICK
   PNEUTEK K66062 OR K66075 AT SUPPORTS 0.281" THICK AND GREATER
5. SDS = SELF DRILLING SCREW. WHERE SIDELAPS HAVE SCREWED CONNECTION, THE DECK PROVIDED SHALL HAVE A SCREWABLE SIDE SEAM, UNO.
6. PSC = PROPRIETARY SIDELAP CONNECTION - VERCO SIDELAP CONNECTION 2 FOR VERCO PUNCHLOK II SYSTEM, ASC DELTA GRIP FOR ASC DECKS.
7. SPACING AT SUPPORTS IS NOTED AS (DECK PANEL WIDTH)/(ATTACHMENTS PER PANEL). FOR EXAMPLE: PW @ 36/4 INDICATES A 36" WIDE DECK SHEET WITH 4 PUDDLE WELDS AT EACH SUPPORT.
8. HEADED STUD ANCHORS WELDED THROUGH DECK WITH 1" MINIMUM COVER FROM EDGE OF DECK TO STUD CENTERLINE MAY BE SUBSTITUTED ONE FOR ONE FOR PW. ALIGN AND SECURE DECK IN POSITION BEFORE INSTALLING STUDS.
9. SEE PLANS AND SFRS SHEETS FOR ADDITIONAL FASTENERS REQUIRED AT MEMBERS DENOTED AS SFRS. OMIT ATTACHMENTS WHERE DENOTED AS PROTECTED ZONES IN SFRS.
10. ALL WELDED SURFACES SHALL BE DRY BEFORE WELDING DECK OR STUDS TO SUPPORTS.
11. ALIGN AND SECURE DECK IN POSITION BEFORE WELDING OR INSTALLING FASTENERS OR STUDS.
12. ALTERNATE MEANS OF DECK ATTACHMENT ARE PERMITTED WITH APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL SUBMIT THE PROPOSED ATTACHMENT SYSTEM AND THE CODE EVALUATION REPORT DEMONSTRATING THE SYSTEM HAS THE STRENGTH TO MEET THE SPECIFIED DECK SHEAR. IF THE ALTERNATE METHOD IS APPROVED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE DECK TYPE AND PROFILE IS COMPATIBLE WITH THE FASTENING SYSTEM.

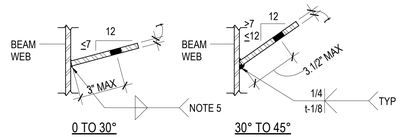


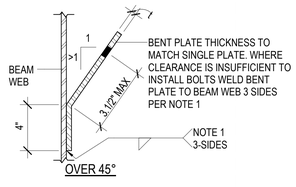


BEAM TO BEAM CONNECTION

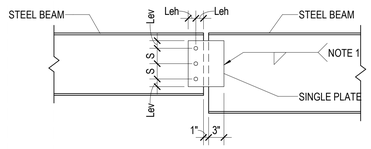


BEAM TO BEAM CONNECTION AT FULL HEIGHT STIFFENER

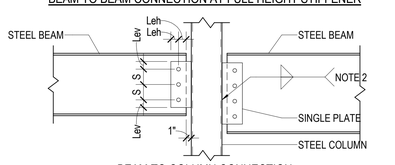




SKEWED CONNECTION (PLAN VIEW)



BEAM TO BEAM CONNECTION



BEAM TO COLUMN CONNECTION

SINGLE PLATE CONNECTION SCHEDULE

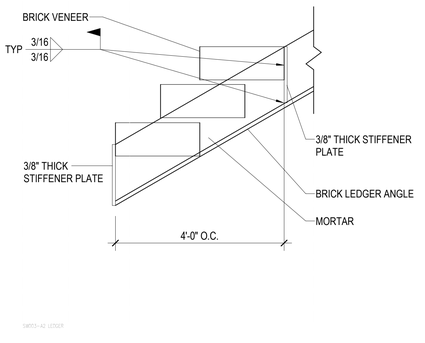
BEAM SIZE	WEB PLATE THICKNESS (t)	A325N BOLTS	
		NUMBER	SIZE
W8 AND W10	3/8"	2	7/8"Ø
W12 AND W14	3/8"	3	7/8"Ø
W16	3/8"	4	7/8"Ø
W18	3/8"	5	7/8"Ø
W21	3/8"	6	7/8"Ø
W24	3/8"	7	7/8"Ø
W27	3/8"	8	7/8"Ø
W30	3/8"	9	7/8"Ø
W33	3/8"	10	7/8"Ø
W36	3/8"	11	7/8"Ø

NOTES:
1. FILLET WELDS ONE SIDE SHALL EQUAL THE PLATE THICKNESS MINUS 1/16" (1/4" MIN.)
2. FILLET WELDS TWO SIDES SHALL BE 5/8 THE PLATE THICKNESS (1/4" MIN.) EACH SIDE
3. BOLT EDGE DISTANCE SHALL BE AS FOLLOWS: Leh = 2 x BOLT DIAMETER; Lev = 1.1/2".
4. BOLT SPACING (S) SHALL BE 3".
5. AT SKEWED JOINTS PROVIDE AN EQUIVALENT LEG SIZE TO NOTE 2 PER AWS D1.1.
6. PROVIDE SHORT SLOTTED HOLES WHEN 6 OR MORE BOLTS ARE REQUIRED AND BOLT DIAMETER IS ≤ 3/4".

B2 / SF611 — TYPICAL SINGLE PLATE CONNECTION DETAILS AND SCHEDULE
NO SCALE

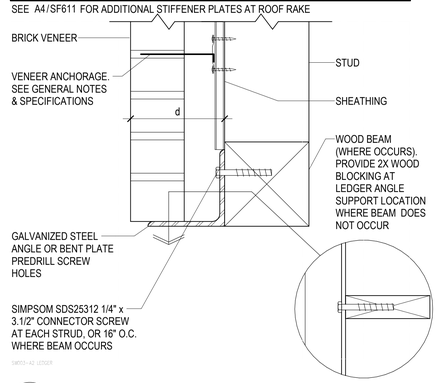
BRICK LEDGER ANGLE SCHEDULE

d	ANGLE SIZE	NOTES
UP TO 5"	L4x4x3/8	
≤ 6"	L5X5x3/8	
≤ 7"	L6x6x3/8	
≤ 8"	7x7x3/8 BENT PLATE	
≤ 9"	L8x8x1/2	
≤ 10"	9x9x1/2 BENT PLATE	



A4 / SF611 — LEDGER ANGLE SUPPORT DETAIL AT ROOF RAKE
NO SCALE

SEE A4 / SF611 FOR ADDITIONAL STIFFENER PLATES AT ROOF RAKE



A5 / SF611 — TYPICAL BRICK LEDGER DETAIL AT WOOD STUD WALL
NO SCALE

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Salt Lake City, UT 84102
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KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

23 EAST CENTER STREET
KAYSVILLE, UTAH 84037

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LICENSED CERTIFIED STRUCTURAL ENGINEER
No. #178779
MICHAEL W. HARRIS
UTAH
06/14/2019

MHTN PROJECT NO. PROJ #2018576

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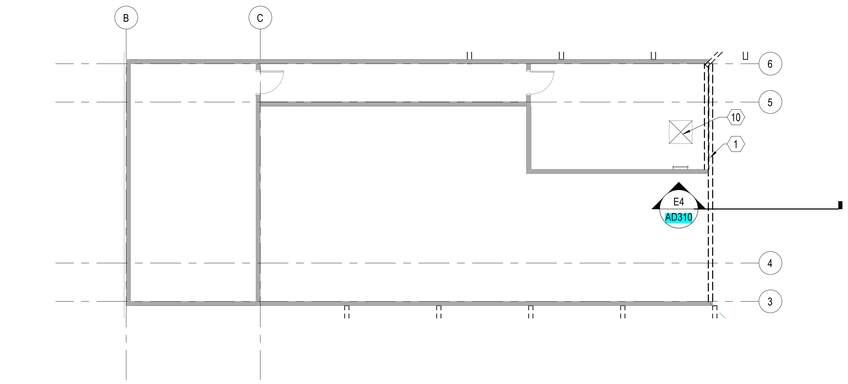
NO.	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
AUGUST 28, 2019

SHEET NAME
STEEL DECK & CONNECTION SCHEDULES

SHEET NUMBER
SF611

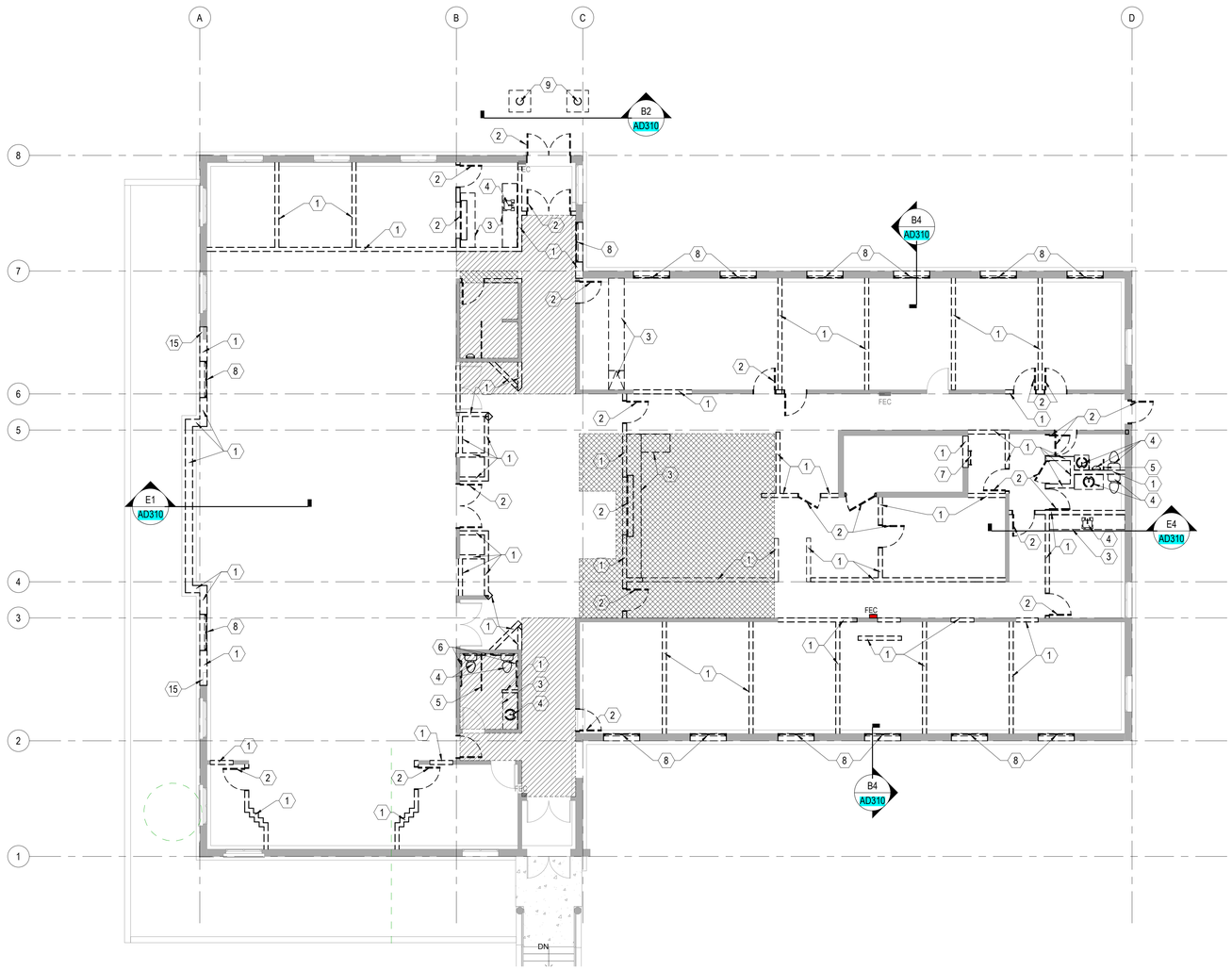
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DEMOLITION SECOND FLOOR PLAN

SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"



DEMOLITION FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"

DEMOLITION GENERAL NOTES

Existing Conditions: Verify existing site and building conditions including but not limited to underground utilities and service lines, irrigation lines, sub-surface structures and all other existing construction both above and below grade.

Protection: Protect existing construction to remain from damage during demolition and new construction work. Repair any damage resulting from this work.

Protect in-place, existing mechanical, plumbing and electrical systems above ceilings that are not shown to be removed. This includes, but is not limited to: network cabling, coax cabling, conduits, piping, ductwork, etc.

When removing concrete slabs on grade, take all necessary precautions to protect electrical lines in or under those slabs.

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Coordination: Coordinate extent of walls to be removed with architectural floor plan(s).

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Where indicated to be removed, salvage undamaged acoustical ceiling panels for use in repair, patching and modifications of existing ceilings. Use only in ceilings where panels match.

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Mechanical & Electrical Systems: Please see Mechanical and Electrical demolition plans for the scope of the work in each of these disciplines

LEGEND - DEMOLITION

- AREA OF NO WORK
- EXISTING TO REMAIN
- REMOVE DOOR & FRAME WALLS & OTHER ITEMS TO BE DEMOLISHED
- REMOVE EXISTING CONCRETE FLOOR AS REQUIRED FOR NEW PLUMBING AND/OR THICK SET TILE
- REMOVE EXISTING TILE FLOOR & GROUT. FILL FLOOR AS REQUIRED FOR NEW FLOOR FINISH
- ASSEMBLY TO BE REMOVED

NOTE: WHERE WALLS AND OTHER ITEMS ARE SHOWN WITH DASHED LINES, WHETHER KEYNOTED OR NOT, REMOVE THESE ITEMS TO THE EXTENT INDICATED AND AS REQUIRED BY NEW CONSTRUCTION.

KEYNOTES - DEMOLITION

1. DEMOLISH AND REMOVE EXISTING STUD WALL OR PORTION OF WALL AS SHOWN
2. DEMOLISH AND REMOVE EXISTING DOOR AND DOOR FRAME
3. DEMOLISH AND REMOVE EXISTING MILLWORK
4. DEMOLISH AND REMOVE EXISTING PLUMBING FIXTURE, INCLUDING SUPPLY AND WASTE LINES UNLESS THEY ARE BEING REUSED - SEE PLUMBING
5. DEMOLISH AND REMOVE EXISTING TOILET PARTITION SYSTEM
6. DEMOLISH AND REMOVE EXISTING TOILET ROOM ACCESSORIES (GRAB BARS, DISPENSERS, ETC.)
7. DEMOLISH AND REMOVE EXISTING MEZZANINE ACCESS LADDER
8. DEMOLISH AND REMOVE EXISTING WINDOW SYSTEM. CUT AND REMOVE STUD WALL AND STONE BELOW WINDOW AS SHOWN ON SHEET AD200.
9. DEMOLISH AND REMOVE EXISTING STRUCTURAL COLUMN AND ASSOCIATED FOOTING
10. REMOVE EXISTING ACCESS HATCH & FILL IN OPENING TO MATCH EXISTING FLOOR
11. REMOVE EXISTING STANDING SEAM ROOF SYSTEM
12. DEMOLISH AND REMOVE EXISTING ROOF SHEATHING AND SUPPORT SYSTEM (SHADED AREA) AND REPLACE WITH SAME ROOF TYPE AND MATERIALS
13. DEMOLISH AND REMOVE PORTION OF EXISTING ROOF SHEATHING AND EAVE/SOFFIT SYSTEM AS SHOWN
14. DEMOLISH AND REMOVE EXISTING MECHANICAL CURBS & BALLASTED MEMBRANE ROOF SYSTEM
15. DEMOLISH AND REMOVE A PORTION OF THE EXISTING STONE VENEER TO THE OUTSIDE FACE OF NEW WINDOW

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State of Utah
KYLE S. HATT
6641246SE
0301
Licensed Architect

MHTN PROJECT NO. PROJ #2018576

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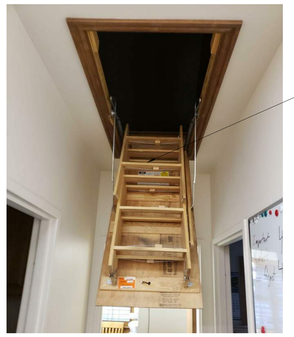
NO.	DATE	DESCRIPTION
1	June 25, 2019	Addendum No. 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
DEMOLITION PLANS

SHEET NUMBER
AD101

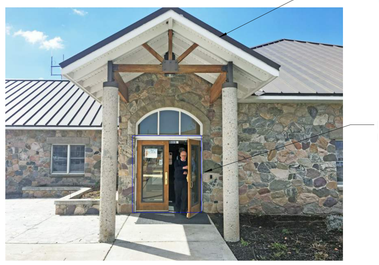
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ATTIC ACCESS TO BE DEMOLISHED . NO ATTIC ACCESS FROM PREFUNCTION LOUNGE REQUIRED AFTER CONSTRUCTION

01 ATTIC ACCESS

NTS



NORTH VESTIBULE TO BE DEMOLISHED - SEE SHEET AD110

DEMOLISH AND REPLACE DOOR WITH NEW WINDOW - SEE SHEET AD110

02 NORTH VESTIBULE

NTS



DEMOLISH EXISTING WINDOW OPENINGS TO FOUNDATION. SAW CUT EDGES SEE DETAIL E5/A610

03 EXTERIOR WINDOW TYP

NTS



DOOR TO BE DEMOLISHED, SEE SHEET AD101. OPENING TO REMAIN, SEE DETAIL D4/A610

04 EAST EXTERIOR DOOR

NTS



APPROXIMATE AREA OF WEST ELEVATION DEMOLITION. SEE SHEET AD101 FOR DIMENSIONS

PROTECT EXISTING VEGETATION AND IRRIGATION TO GREATEST EXTENT POSSIBLE

05 WEST EXTERIOR WINDOW

NTS



VAULT DOOR TO BE REMOVED, SALVAGE AND RETAIN FOR REUSE ON EAST FACE OF VAULT. SEE DOOR SCHEDULE AND SHEET A101

06 VAULT

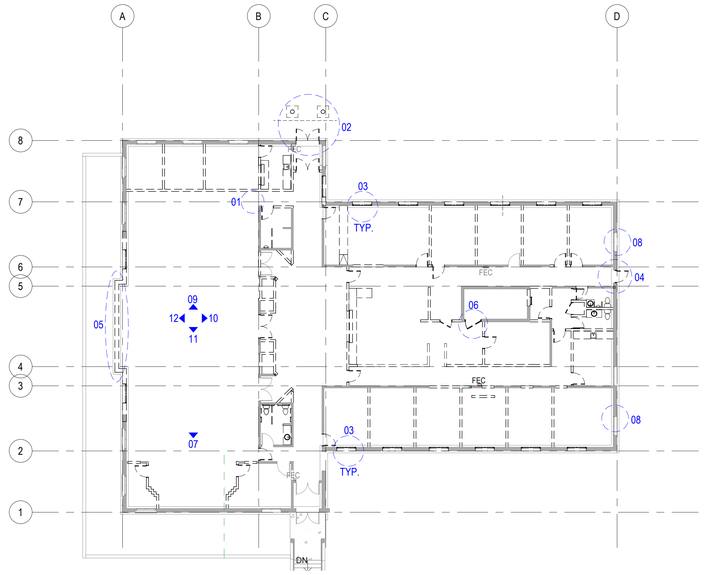
NTS



EXISTING DAIS TO BE DEMOLISHED

07 COUNCIL CHAMBERS DAIS

NTS



DEMOLITION FIRST FLOOR PLAN

SCALE: 1/16" = 1'-0"

0 8' - 0" 16' - 0" 32' - 0"

EXISTING WINDOWS TO REMAIN. SEE SHEET A101. APPLY TRANSLUCENT WINDOW FILM

08 EXISTING WINDOWS TO REMAIN

NTS



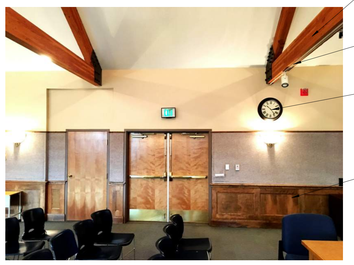
PATCH AND REPAIR CEILING PRIOR TO PAINTING

TRUSSES TO BE PAINTED. SEE FINISH PLAN.

SALVAGE AND RETAIN EXISTING SYSTEMS FURNITURE. PROVIDE TO KAYSVILLE CITY FOR FUTURE REUSE

09 COUNCIL CHAMBERS NORTH

NTS



TRUSSES TO BE PAINTED. SEE FINISH PLAN

DEMOLISH TRACK LIGHTING

SALVAGE AND RETAIN WALL CLOCK FOR FUTURE REUSE BY KAYSVILLE CITY

REMOVE WAINSCOTT. PATCH AND REPAIR PRIOR TO PAINTING. SEE FINISH PLAN

10 COUNCIL CHAMBERS EAST

NTS



PATCH AND REPAIR PRIOR TO PAINTING

TRUSSES TO BE PAINTED. SEE FINISH SCHEDULE

DEMOLISH TRACK LIGHTING

11 COUNCIL CHAMBERS SOUTH

NTS



INTERIOR VIEW OF WEST ELEVATION AREA TO BE DEMOLISHED

12 COUNCIL CHAMBERS WEST

NTS

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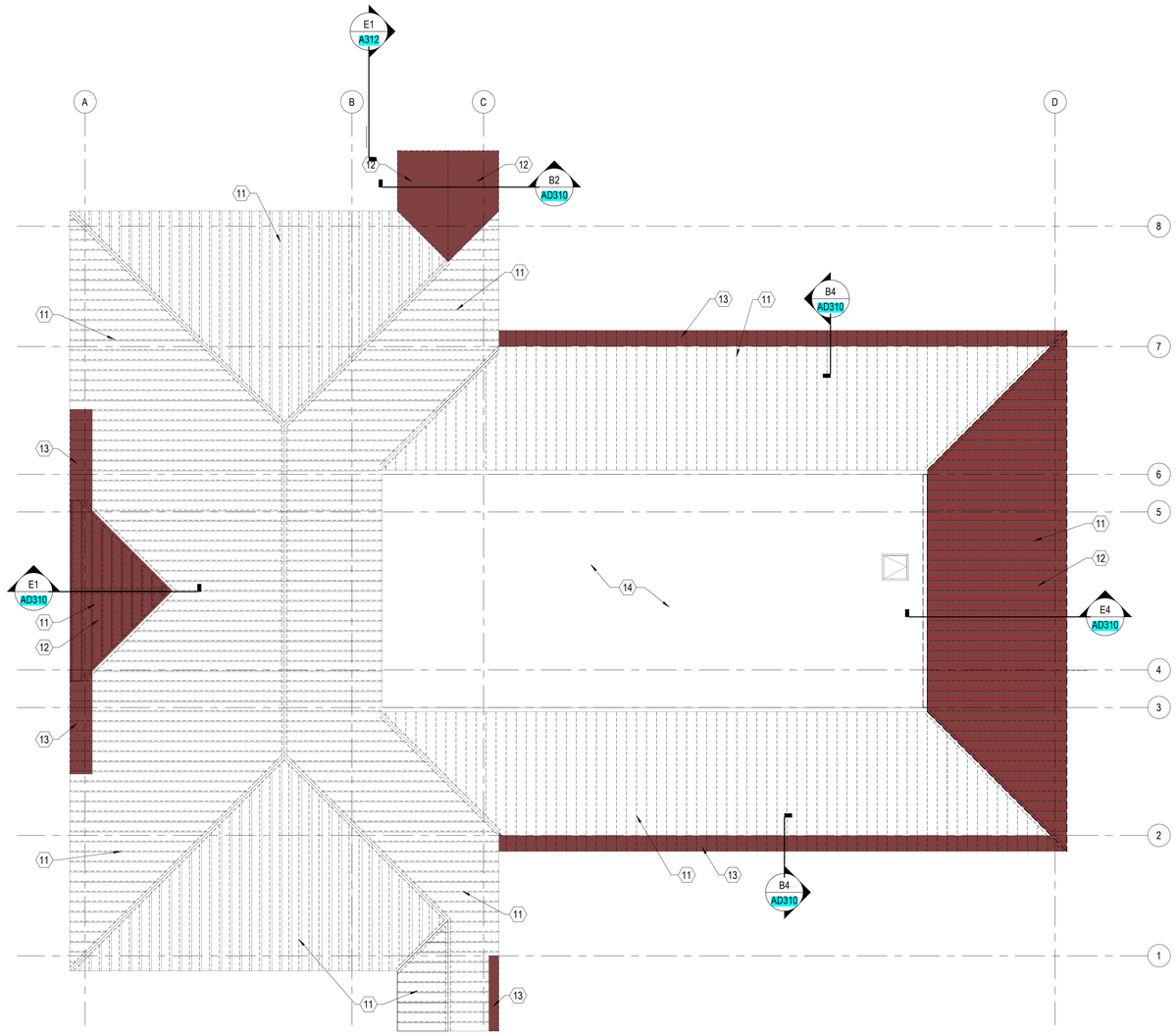
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1	June 25, 2019	Addendum No. 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
DEMOLITION PLAN ANNOTATED

SHEET NUMBER
AD102

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DEMOLITION ROOF PLAN

SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"

N

DEMOLITION GENERAL NOTES

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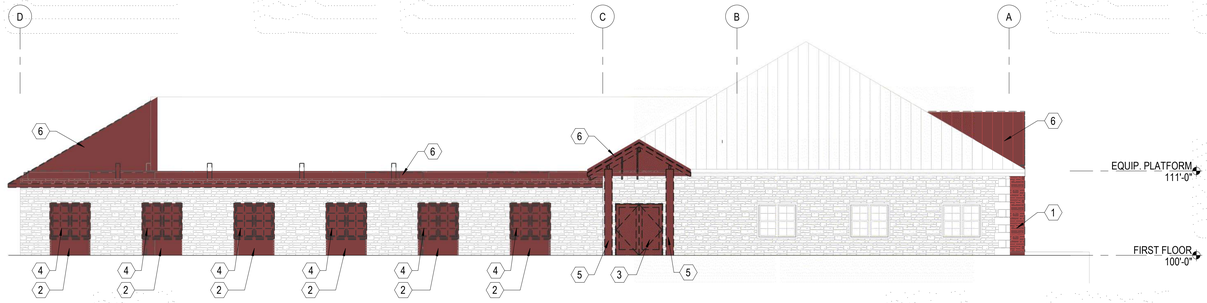
NO.	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
DEMOLITION ROOF PLAN

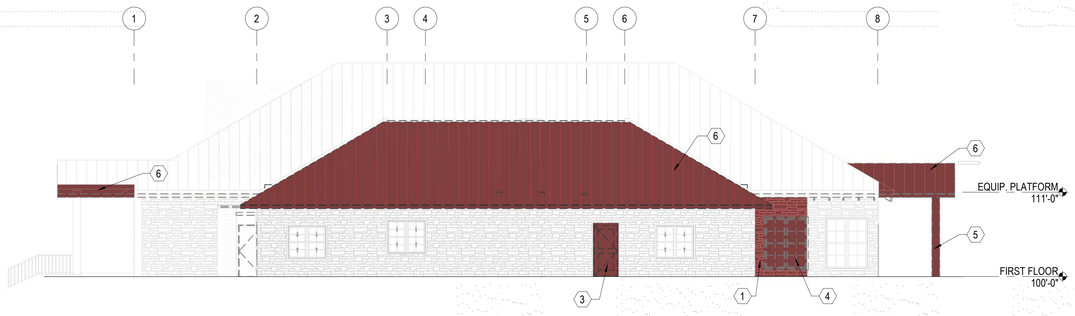
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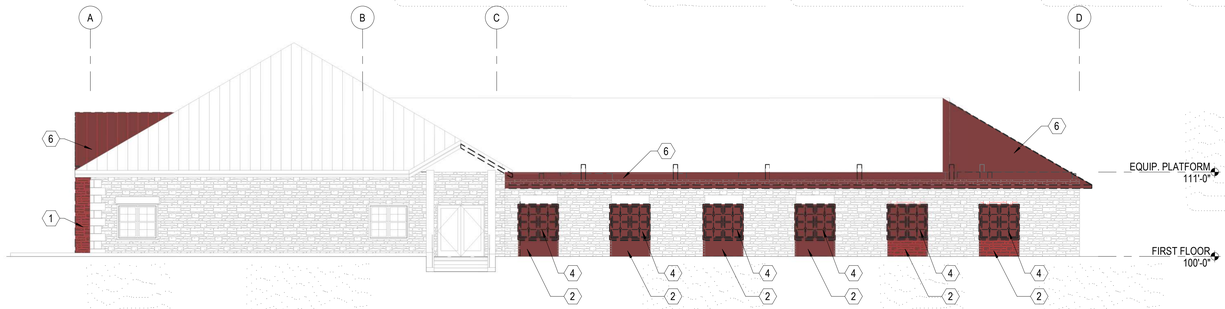
A1 NORTH ELEVATION - DEMOLITION

SCALE: 1/8" = 1'-0"



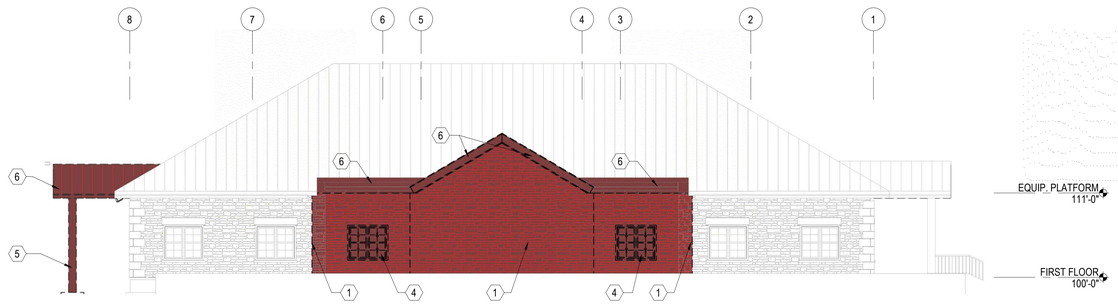
B1 EAST ELEVATION - DEMOLITION

SCALE: 1/8" = 1'-0"



D1 SOUTH ELEVATION - DEMOLITION

SCALE: 1/8" = 1'-0"



E1 WEST ELEVATION - DEMOLITION

SCALE: 1/8" = 1'-0"

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KEYNOTES - DEMOLITION ELEVATIONS

1. DEMOLISH AND REMOVE PORTION OF STONE WALL
2. DEMOLISH AND REMOVE PORTION OF STONE & STUD WALL BELOW THE EXISTING WINDOW
3. DEMOLISH AND REMOVE EXISTING DOOR AND FRAME
4. DEMOLISH AND REMOVE EXISTING WINDOW ASSEMBLY
5. DEMOLISH AND REMOVE EXISTING COLUMN
6. DEMOLISH AND REMOVE PORTION EXISTING OF EXISTING ROOF - SEE DEMOLITION ROOF PLAN

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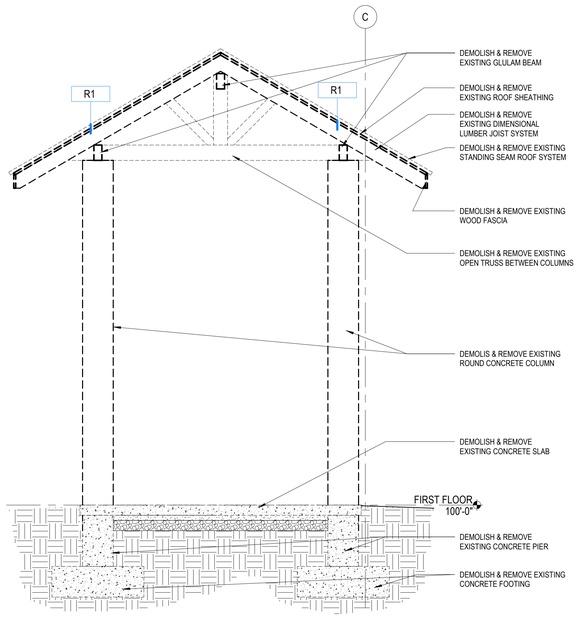
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1	June 25, 2019	Addendum No. 1

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28 AUGUST 2019

SHEET NAME
DEMOLITION EXTERIOR ELEVATIONS

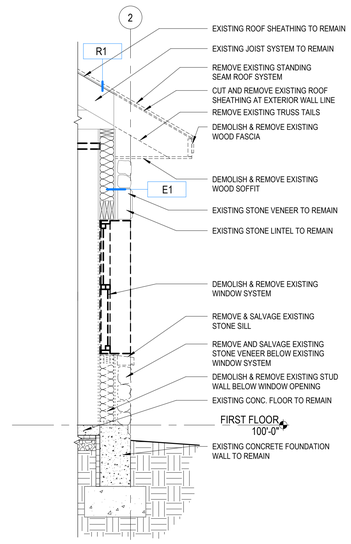
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AD200

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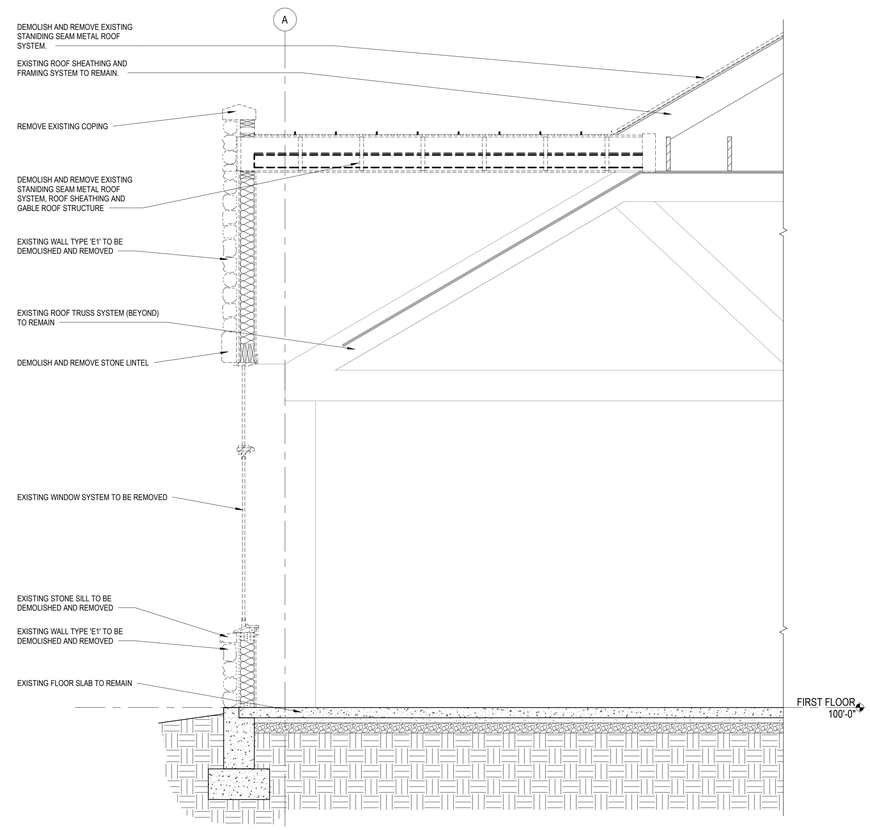
B2 DEMOLITION WALL SECTION

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



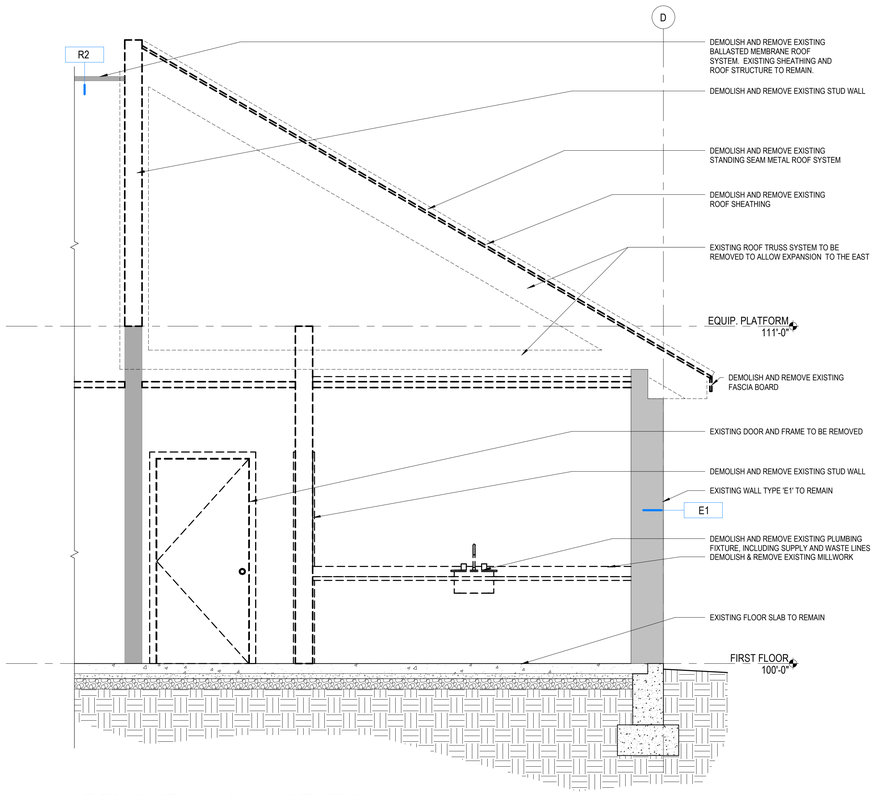
B4 DEMOLITION WALL SECTION

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



E1 DEMOLITION WALL SECTION

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



E4 DEMOLITION WALL SECTION

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

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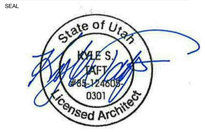
KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

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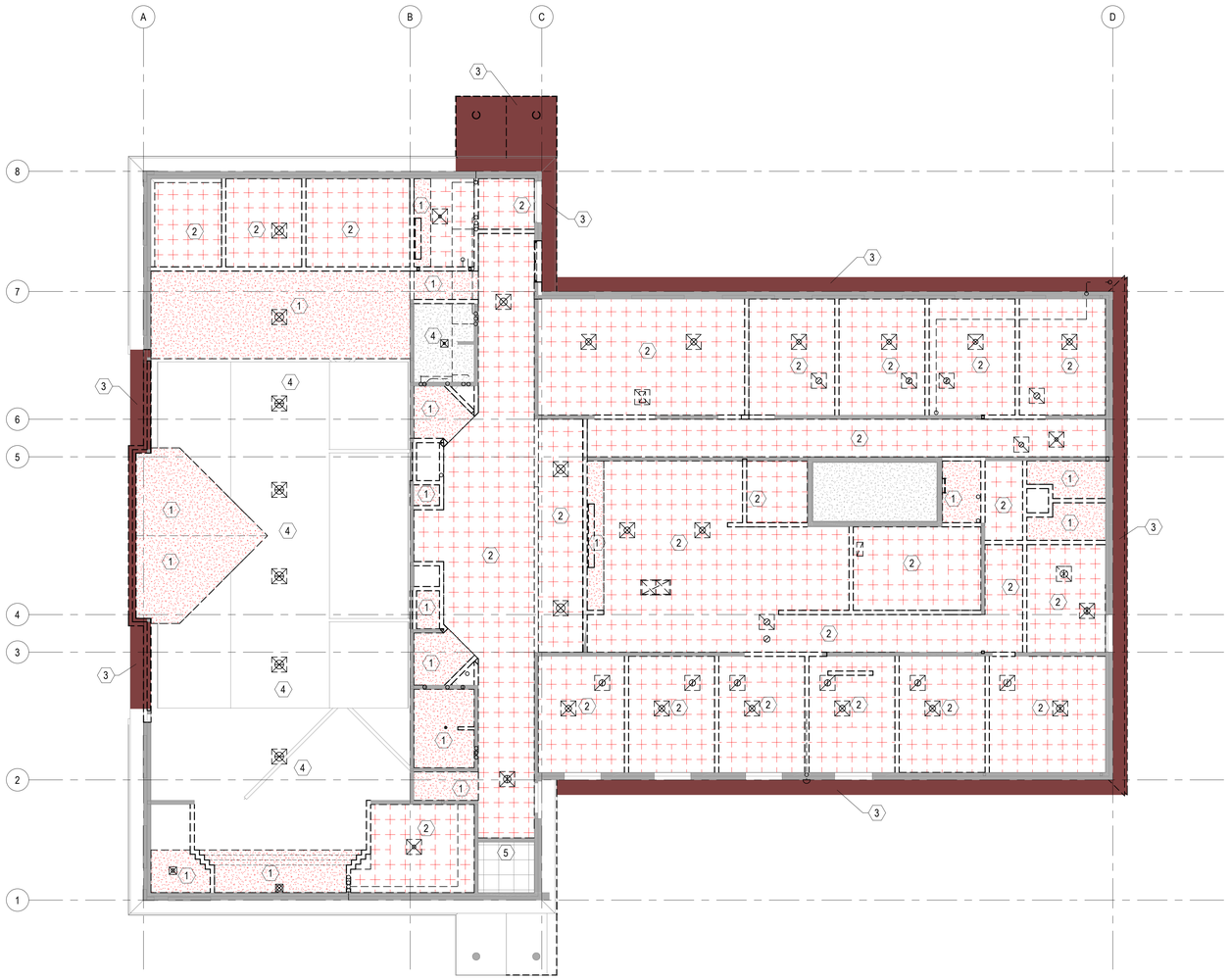
NO.△	DATE	DESCRIPTION

ISSUE
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28 AUGUST 2019

SHEET NAME
DEMOLITION WALL SECTIONS

SHEET NUMBER
AD310

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FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"

N

DEMOLITION GENERAL NOTES

Existing Conditions: Verify existing site and building conditions including but not limited to underground utilities and service lines, irrigation lines, sub-surface structures and all other existing construction both above and below grade.

Protection: Protect existing construction to remain from damage during demolition and new construction work. Repair any damage resulting from this work.

Protect in-place, existing mechanical, plumbing and electrical systems above ceilings that are not shown to be removed. This includes, but is not limited to: network cabling, coax cabling, conduits, piping, ductwork, etc.

When removing concrete slabs on grade, take all necessary precautions to protect electrical lines in or under those slabs.

Site Access: Coordinate phased access to the site with the Owner, including times of restricted access.

Coordination: Coordinate extent of walls to be removed with architectural floor plan(s).

Masonry Walls: Where masonry walls are demolished, clean and repair newly exposed surfaces to match adjacent wall finish.

Salvage: Review with the owner, casework, furniture, equipment and wall mounted display surfaces left behind after owner move out, that are not shown on drawings. Identify as either salvage or to be disposed of by contractor.

Where indicated to be removed, salvage whiteboards and tack boards for reuse, UNO.

Where indicated to be removed, salvage undamaged acoustical ceiling panels for use in repair, patching and modifications of existing ceilings. Use only in ceilings where panels match.

Verify that existing equipment that is to remain, to be salvaged or to be re-installed, is in working condition. Provide written documentation to the Owner for any items that are not in working condition before beginning work in the area.

Existing Floor Finishes: All existing floor finishes are to be removed and the floor prepared for new finishes shown on the First Floor Finish Plan

Mechanical & Electrical Systems: Please see Mechanical and Electrical demolition plans for the scope of the work in each of these disciplines

KEYNOTES - DEMOLITION CEILING PLAN

1. DEMOLISH AND REMOVE EXISTING GYP. BD. CEILING AND ALL ASSOCIATED SUPPORTS
2. DEMOLISH AND REMOVE EXISTING ACOUSTICAL PANEL CEILING SYSTEM INCLUDING ALL GRIDS, SUPPORTS AND ACCESSORIES
3. DEMOLISH & REMOVE PORTION OF EXISTING ROOF SYSTEM. SEE DEMOLITION ROOF PLAN
4. EXISTING GYP. BD. CEILING TO REMAIN. PATCH AND REPAIR AS REQUIRED FOR NEW CEILING FINISH
5. EXISTING ACOUSTICAL PANEL CEILING SYSTEM TO REMAIN

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NO.	DATE	DESCRIPTION
1	June 26, 2019	Addendum No. 1

ISSUE
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28 AUGUST 2019

SHEET NAME
FIRST FLOOR DEMOLITION CEILING PLAN

SHEET NUMBER
AD701

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FLOOR PLAN GENERAL NOTES

References to sheets below are provided to aid in navigating the drawings.

RE: G200 for Fixture Mounting Heights.

RE: G400 for Floor, Roof and Exterior Wall Types.

RE: G500 for Interior Wall Types.

RE: A600 for the Door Schedule.

RE: A620 drawings for Window Types.

RE: Structural for slab recesses.

RE: Structural for concrete scoring, except where decorative scoring is shown.

Rated Construction: Provide as shown on the plans, the Life Safety Plans and elsewhere in the documents. Seal penetrations with systems applicable to the application and that have UL or other testing agency certifications.

Blocking: Framing Contractor to provide solid blocking for anchorage of Drinking Fountains, Fire Extinguishers/Cabinets, Toilet Room Accessories, Grab Bars, Millwork, etc.

Provide 3/4" plywood on walls to receive electrical panels, data panels or phone boards. See electrical plans for locations.

Keynotes: Not all keynotes apply to this sheet.

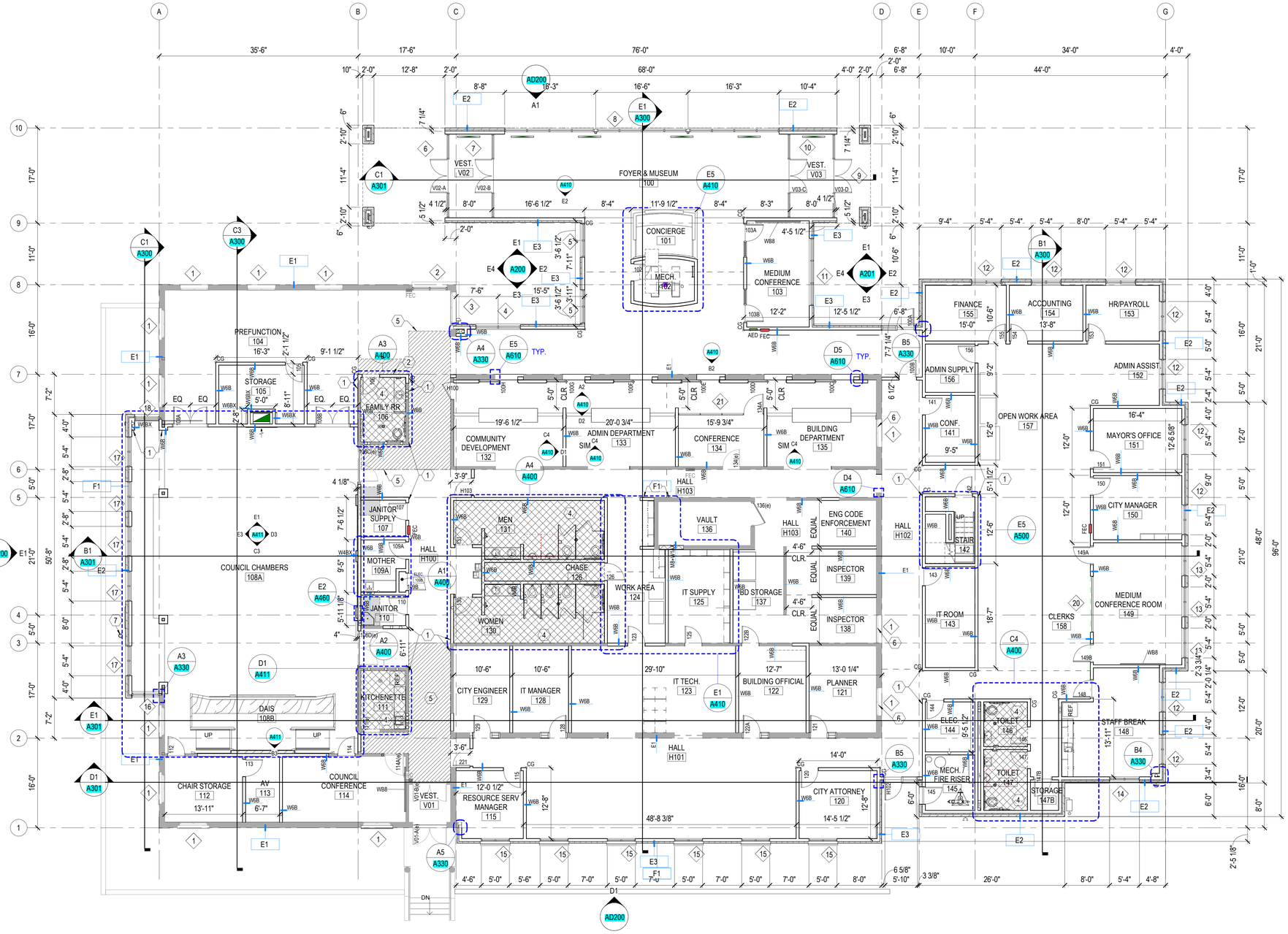
LEGEND - FLOOR PLAN

- PROVIDE 1-1/2 RECESS FOR THICK-SET TILE
- FILL EXISTING RECESSED FLOOR AS REQUIRED FOR NEW FLOOR FINISH
- FEC — FIRE EXTINGUISHER + CABINET SURFACE MOUNTED
- FEC — FIRE EXTINGUISHER + CABINET SEMI-RECESSED
- FE — FIRE EXTINGUISHER
- AED — AUTOMATED EXTERNAL DEFIBRILLATOR
- CG — CORNER GUARD
- WALL MOUNTED TOILET RE: PLUMBING
- FLOOR MOUNTED TOILET RE: PLUMBING
- URINAL RE: PLUMBING
- WALL HUNG LAVATORY RE: PLUMBING
- COUNTER MOUNTED SINK RE: PLUMBING
- ELECTRICAL WATER COOLER RE: PLUMBING
- MOP SINK RE: PLUMBING

NOTE: PROVIDE ITEMS INDICATED IN THE LEGEND IN THE QUANTITIES SHOWN ON THE PLAN.

KEYNOTES - FLOOR PLANS

1. ALIGN WALLS SO THAT FINISH IS CONTINUOUS
2. ALIGN FINISH FACE WITH GRID LINE
3. STONE THRESHOLD
4. PROVIDE 1-1/2" RECESS FOR THICK-SET TILE FLOOR (HATCHED AREA)
5. FILL EXISTING RECESSED FLOOR AS REQUIRED FOR INSTALLATION OF NEW FLOOR FINISH
6. EXISTING EXTERIOR WINDOW TO REMAIN. APPLY TRANSLUCENT FILM. REFERENCE WINDOW TYPES
7. NEW FLAG POLE WITH INTERNAL ROPE SYSTEM



FIRST FLOOR PLAN

SCALE: 1/8" = 1'-0"

0 4'-0" 8'-0" 16'-0"

N

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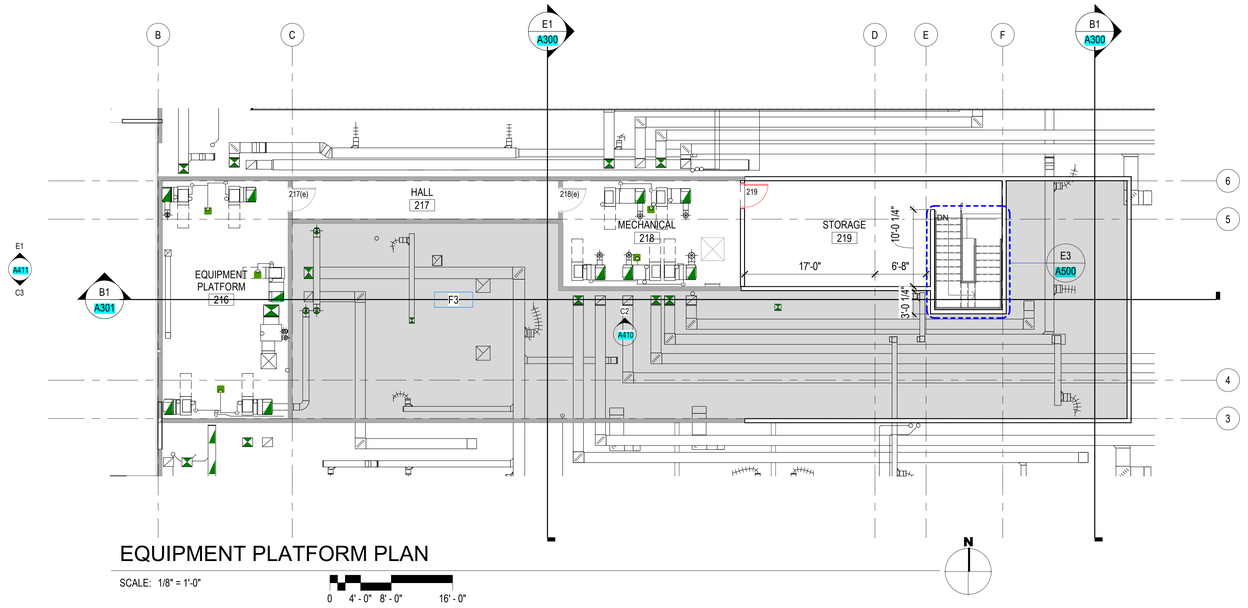
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1	June 25, 2019	Addendum No. 1

ISSUE
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28 AUGUST 2019

SHEET NAME
FIRST FLOOR PLAN

SHEET NUMBER
A101

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EQUIPMENT PLATFORM PLAN

SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"

FLOOR PLAN GENERAL NOTES

References to sheets below are provided to aid in navigating the drawings.

RE: G200 for Fixture Mounting Heights.

RE: G400 for Floor, Roof and Exterior Wall Types.

RE: G500 for Interior Wall Types.

RE: A600 for the Door Schedule.

RE: A620 drawings for Window Types.

RE: Structural for slab recesses.

RE: Structural for concrete scoring, except where decorative scoring is shown.

Rated Construction: Provide as shown on the plans, the Life Safety Plans and elsewhere in the documents. Seal penetrations with systems applicable to the application and that have UL or other testing agency certifications.

Blocking: Framing Contractor to provide solid blocking for anchorage of Drinking Fountains, Fire Extinguishers/Cabinets, Toilet Room Accessories, Grab Bars, Millwork, etc.

Provide 3/4" plywood on walls to receive electrical panels, data panels or phone boards. See electrical plans for locations.

Keynotes: Not all keynotes apply to this sheet.

LEGEND - FLOOR PLAN

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- FILL EXISTING RECESSED FLOOR AS REQUIRED FOR NEW FLOOR FINISH
- FEC — FIRE EXTINGUISHER + CABINET SURFACE MOUNTED
- FEC — FIRE EXTINGUISHER + CABINET SEMI-RECESSED
- FE — FIRE EXTINGUISHER
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- WALL HUNG LAVATORY RE: PLUMBING
- COUNTER MOUNTED SINK RE: PLUMBING
- ELECTRICAL WATER COOLER RE: PLUMBING
- MOP SINK RE: PLUMBING

NOTE: PROVIDE ITEMS INDICATED IN THE LEGEND IN THE QUANTITIES SHOWN ON THE PLAN.

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ISSUE
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SHEET NAME
EQUIP. PLATFORM FLOOR PLAN

SHEET NUMBER
A102

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ROOF PLAN GENERAL NOTES

References to sheets below are provided to aid in navigating the drawings.

RE: G400 for Roof Types.

RE: A340 for Roof Details.

RE: Plumbing drawings for pipe vent quantities and locations. Provide flashing per roof and plumbing details.

Crickets: Provide crickets at roof top mechanical units, roof access hatches and other similar conditions for positive drainage.

Roof Deck Limitations: Do not use the steel roof deck to support loads from plumbing, HVAC ducts, light fixtures, architectural elements or equipment of any kind, UNO. Lightweight suspended acoustical ceilings with a total weight per wire not exceeding 50 pounds may be hung from the steel roof deck. Stagger the hangers to distribute the load over multiple deck flutes.

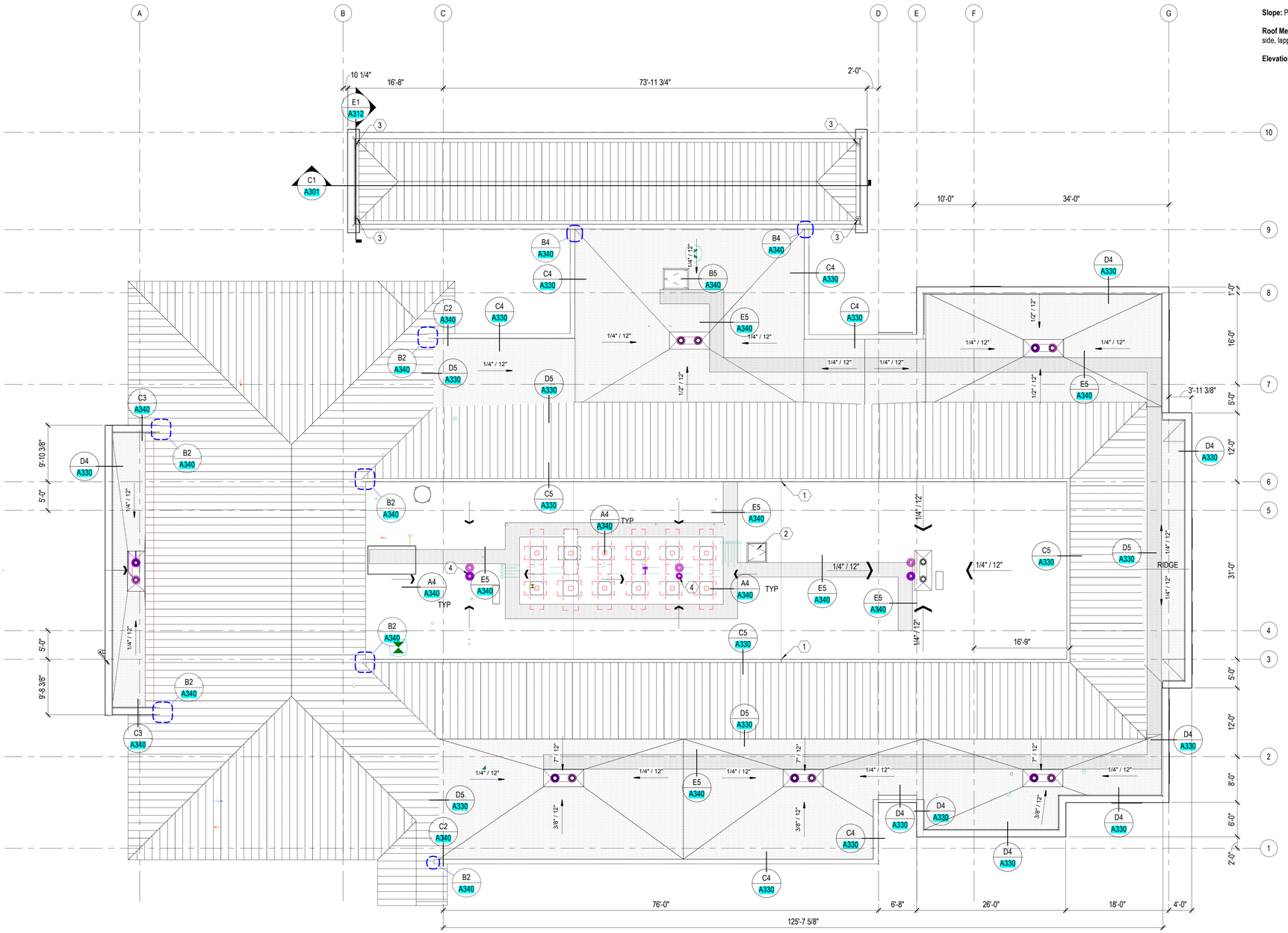
Roof Insulation: Provide R-30 minimum, unless noted otherwise.

Walkway Pads: Provide walkway pads as shown, and if not shown, provide pads from all points of roof access (ladders, doors, access hatches) to mechanical equipment, roof drains, and all other rooftop equipment. Adjust pathways as required to miss penetrations and rooftop equipment that may not be shown on the roof plan.

Slope: Provide ¼" per foot minimum slope across the roof.

Roof Membrane at Parapet Walls: Continue membrane up parapet walls, over the top and down the other side, lapping the wood nailers and the material below them by 1" minimum.

Elevation Datum Points: Datum points are to top of deck unless noted otherwise.



KEYNOTES - ROOF

1. ALIGN NEW WALL WITH EXISTING WALL
2. EXISTING ROOF ACCESS HATCH TO REMAIN
3. INTEGRAL GUTTER WITH CORNICE DRAIN AND DOWNSPOUT
4. EXISTING ROOF DRAIN TO REMAIN

LEGEND - ROOF PLAN

- ROOF TYPE R-1 STANDING SEAM METAL ROOF SYSTEM - SLOPE 7:12 UNO
- ROOF TYPE R-4 SINGLE-PLY MEMBRANE - SLOPE 1/4" PER FOOT MINIMUM UNO
- CRICKETS: R-4 ROOF SYSTEM WITH TAPERED INSULATION - MAINTAIN 1/4" PER FOOT SLOPE AT CRICKET VALLEYS
- WALKWAY PAD - 30" MINIMUM WIDTH
- PRIMARY AND SECONDARY ROOF DRAINS SEE D5 / A340
- DIRECTION OF SLOPE
- ROOF HATCH
- ROOF TOP EQUIPMENT - SEE MECHANICAL

ROOF PLAN

SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"

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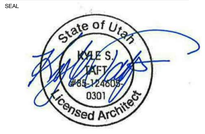
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SHEET NAME
ROOF PLAN

SHEET NUMBER
A110

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SPECIALTY EQUIPMENT SCHEDULE

RM #	ROOM NAME	DESCRIPTION	Mark	FURNISHED / INSTALLED	ELECTRICAL DATA							SPECIAL NOTE
					HP	VOLTS	PHASE (1 or 3)	AMPS / WATTS	PLUG CONFIG	DATA (Y/N)	DATA QTY	
124	WORK AREA	SHARP COPIER ADMIN	01	OWNER FURNISHED/ OWNER INSTALLED			0			No	0	
124	WORK AREA	SHARP COPIER B/W ADMIN	02	OWNER FURNISHED/ OWNER INSTALLED			0	120		No	0	
157	OPEN WORK AREA	SHARP COLOR COPIER BLDG. DEPT.	03	OWNER FURNISHED/ OWNER INSTALLED			0	120		No	0	
157	OPEN WORK AREA	HP PLOTTER SCANNER BLDG. DEPT.	04	OWNER FURNISHED/ OWNER INSTALLED			0	120		No	0	
157	OPEN WORK AREA	HP PLOTTER ADMIN	05	OWNER FURNISHED/ OWNER INSTALLED			0	120		No	0	



FIRST FLOOR FURNITURE PLAN

SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"

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KYLE S. HATT
6644240
0301
Licensed Architect

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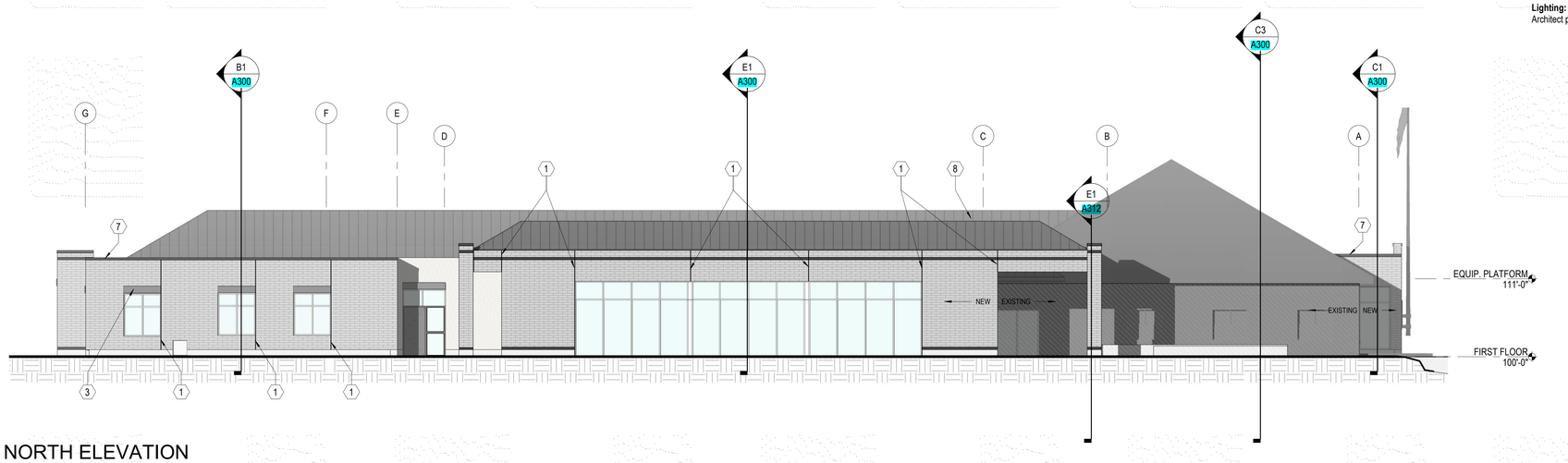
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28 AUGUST 2019

SHEET NAME
FIRST FLOOR FURNITURE PLAN

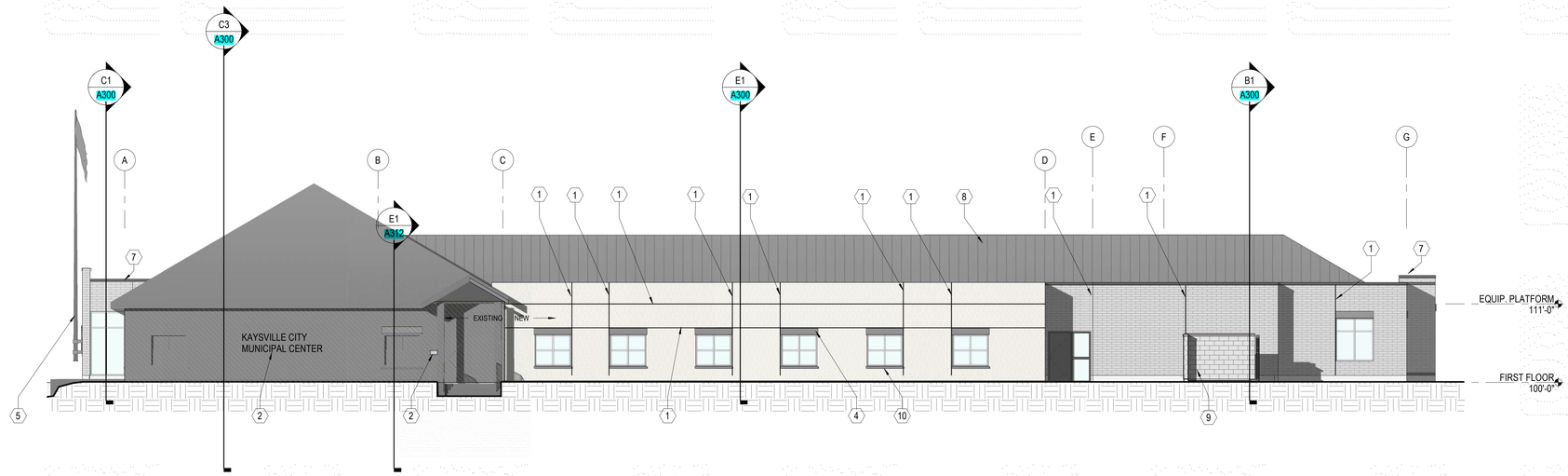
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A151

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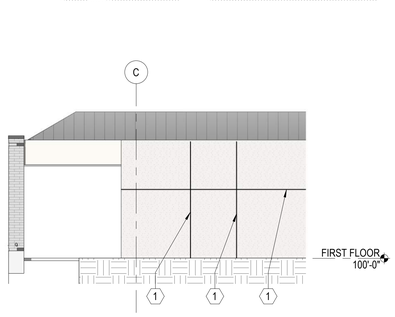
B1 NORTH ELEVATION

SCALE: 1/8" = 1'-0"



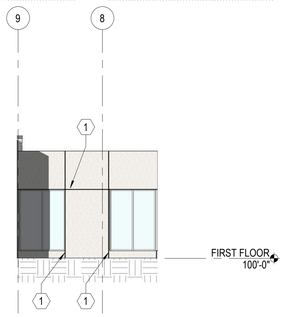
D1 SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



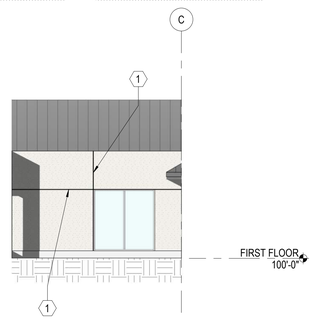
E1 WEST COURTYARD - NORTH

SCALE: 1/8" = 1'-0"



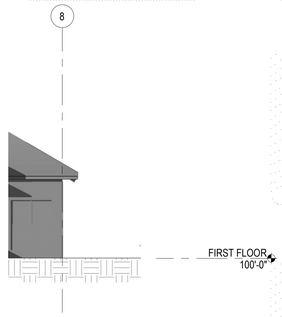
E2 WEST COURTYARD - EAST

SCALE: 1/8" = 1'-0"



E3 WEST COURTYARD - SOUTH

SCALE: 1/8" = 1'-0"



E4 WEST COURTYARD - WEST

SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATIONS GENERAL NOTES

Exterior Finishes: Provide exterior finishes, continuous until a transition is indicated. Provide on all similar elements, and on surfaces not shown in elevation such as back sides of piers, columns and other surfaces that may not be visible in the elevation view.

Cement plaster finish to be applied to foundation base.

Lighting: Coordinate wall and soffit mounted lighting locations with Electrical drawings and with the Architect prior to rough-in.

LEGEND - EXTERIOR ELEVATION

- STONE VENEER
- BRICK VENEER - 4" EMPORER INTERSTATE BRICK "PLATINUM" RUNNING BOND AS BASIS-OF-DESIGN
- GLAZING: STOREFRONT IN LIEU OF CURTAIN WALL AS BASIS-OF-DESIGN
- EXTERIOR INSULATION & FINISH SYSTEM - DRYVIT TIBURSTONE "SIDEWALK PASTEL BASE" AS BASIS-OF-DESIGN
- CEMENT PLASTER FINISH ON FOUNDATION BASE
- BRICK VENEER - 4" EMPORER INTERSTATE BRICK "MIDNIGHT BLACK" ACCENT BANDING (HEADER FACE) AS BASIS-OF-DESIGN

KEYNOTES - EXTERIOR ELEVATIONS

1. CONTROL JOINT
2. EXISTING SIGNAGE/ELEMENTS
3. PRECAST CONCRETE LINTEL TO MATCH EXISTING STONE LINTELS
4. EIFS LINTEL
5. NEW FLAG POLE WITH INTERNAL ROPE SYSTEM
6. METAL PANEL SIGNAGE
7. PREFINISHED METAL COPING
8. NEW STANDING SEAM ROOF TO REPLACE EXISTING - SEE ROOF PLANS A110/AD102
9. TRANSFORMER ENCLOSURE
10. EIFS SILL
11. REFER TO STRUCTURAL DETAIL "FLAGPOLE TO STEEL COLUMN" AND PAINT. ARCHITECT TO APPROVE PAINT COLOR

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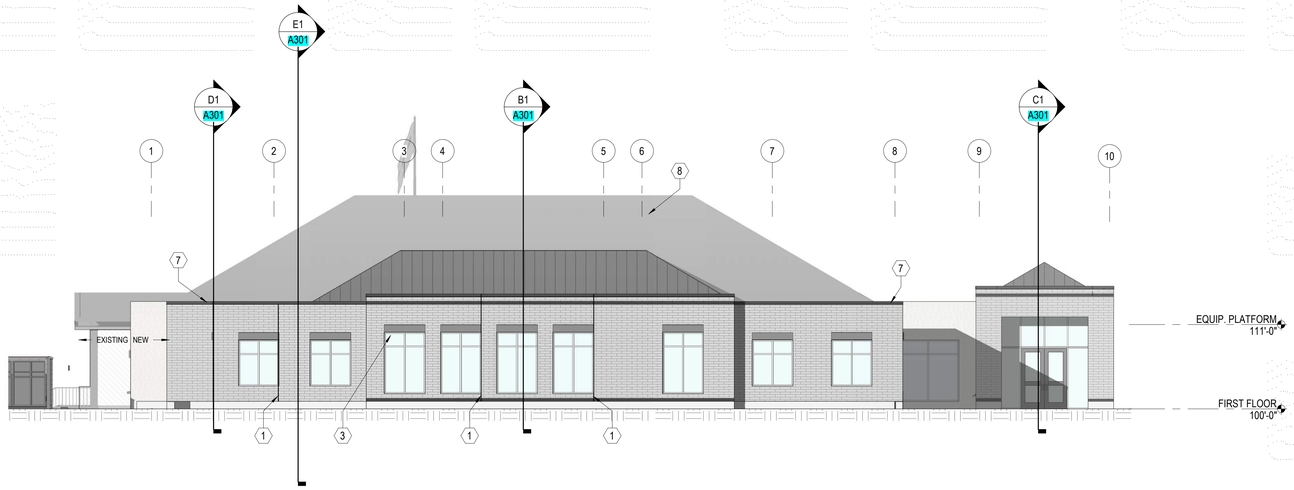
NO.△	DATE	DESCRIPTION
1	June 25, 2019	Addendum No. 1
2	June 28, 2018	Addendum No. 2

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
EXTERIOR ELEVATIONS

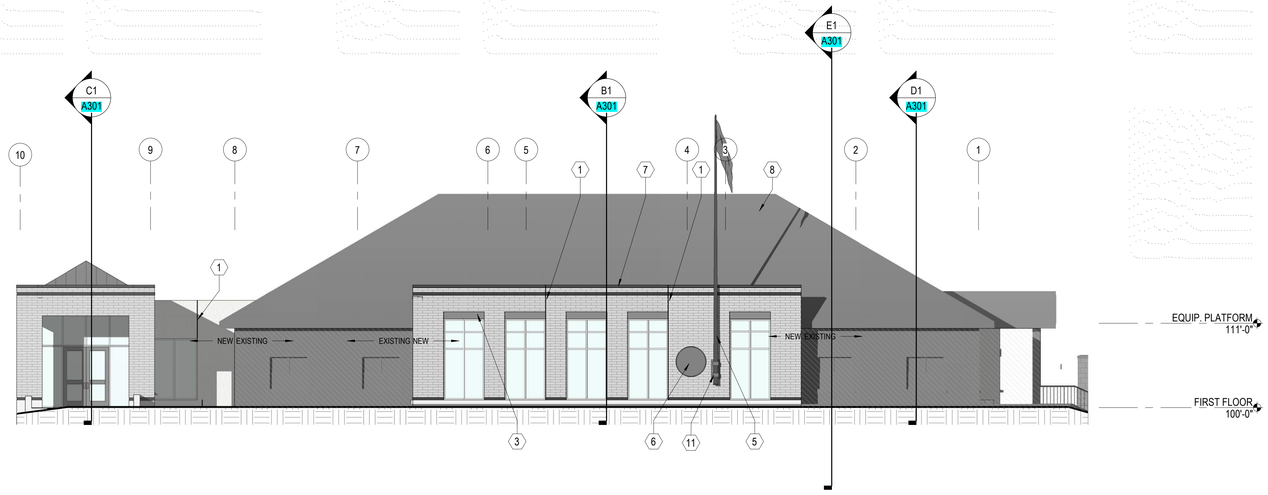
SHEET NUMBER
A200

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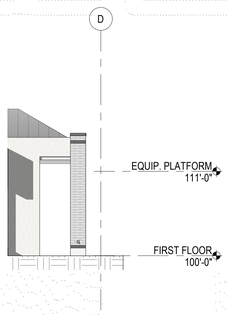
B1 EAST ELEVATION

SCALE: 1/8" = 1'-0"



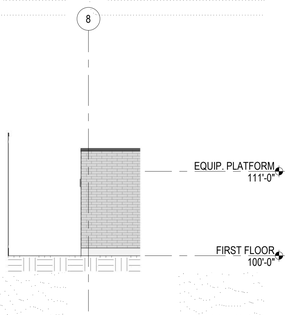
D1 WEST ELEVATION

SCALE: 1/8" = 1'-0"



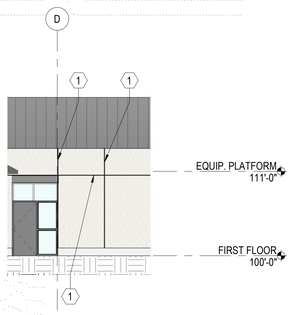
E1 EAST COURTYARD - NORTH

SCALE: 1/8" = 1'-0"



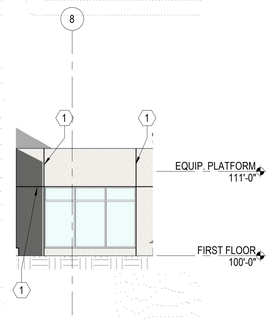
E2 EAST COURTYARD - EAST

SCALE: 1/8" = 1'-0"



E3 EAST COURTYARD - SOUTH

SCALE: 1/8" = 1'-0"



E4 EAST COURTYARD - WEST

SCALE: 1/8" = 1'-0"

EXTERIOR ELEVATIONS GENERAL NOTES

Exterior Finishes: Provide exterior finishes, continuous until a transition is indicated. Provide on all similar elements, and on surfaces not shown in elevation such as back sides of piers, columns and other surfaces that may not be visible in the elevation view.

Cement plaster finish to be applied to foundation base.

Lighting: Coordinate wall and soffit mounted lighting locations with Electrical drawings and with the Architect prior to rough-in.

LEGEND - EXTERIOR ELEVATION

- STONE VENEER
- BRICK VENEER - 4" EMPORER INTERSTATE BRICK "PLATINUM" RUNNING BOND AS BASIS-OF-DESIGN
- GLAZING: STOREFRONT IN LIEU OF CURTAIN WALL AS BASIS-OF-DESIGN
- EXTERIOR INSULATION & FINISH SYSTEM - DRYVIT TIBURSTONE "SIDEWALK PASTEL BASE" AS BASIS-OF-DESIGN
- CEMENT PLASTER FINISH ON FOUNDATION BASE
- BRICK VENEER - 4" EMPORER INTERSTATE BRICK "MIDNIGHT BLACK" ACCENT BANDING (HEADER FACE) AS BASIS-OF-DESIGN

KEYNOTES - EXTERIOR ELEVATIONS

1. CONTROL JOINT
2. EXISTING SIGNAGE/ELEMENTS
3. PRECAST CONCRETE LINTEL TO MATCH EXISTING STONE LINTELS
4. EIFS LINTEL
5. NEW FLAG POLE WITH INTERNAL ROPE SYSTEM
6. METAL PANEL SIGNAGE
7. PREFINISHED METAL COPING
8. NEW STANDING SEAM ROOF TO REPLACE EXISTING - SEE ROOF PLANS A110/AD102
9. TRANSFORMER ENCLOSURE
10. EIFS SILL
11. REFER TO STRUCTURAL DETAIL "FLAGPOLE TO STEEL COLUMN" AND PAINT. ARCHITECT TO APPROVE PAINT COLOR

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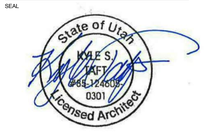
KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

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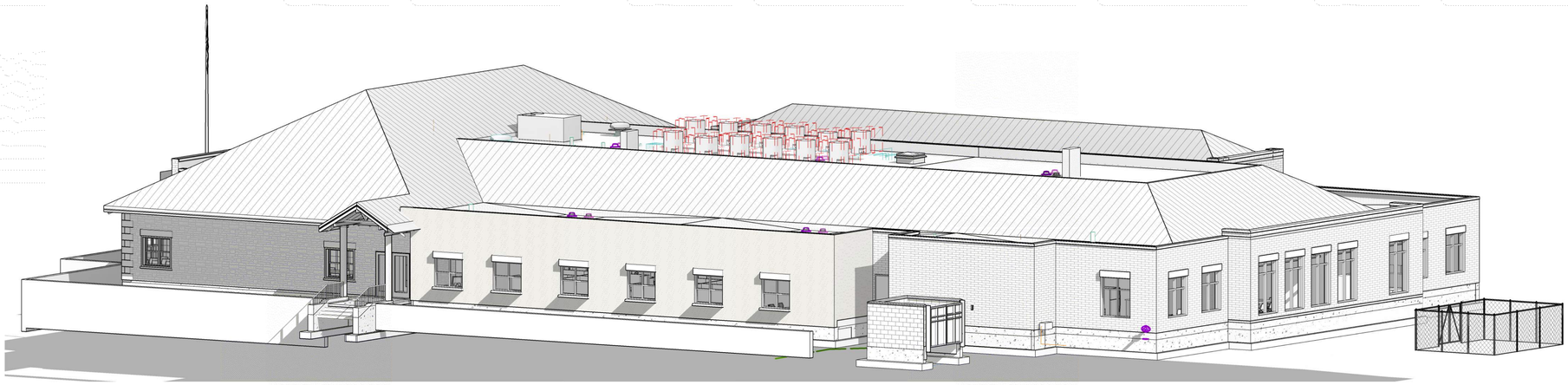
NO.	DATE	DESCRIPTION
1	June 25, 2019	Addendum No. 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

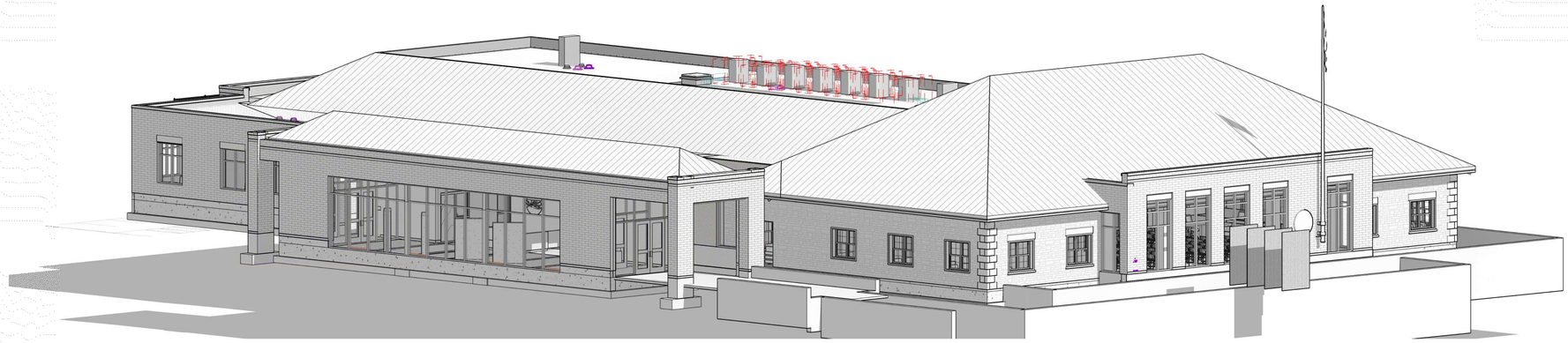
SHEET NAME
EXTERIOR ELEVATIONS

SHEET NUMBER
A201

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VIEW FROM THE SOUTH EAST



VIEW FROM THE NORTH WEST



VIEW FROM THE SOUTH WEST

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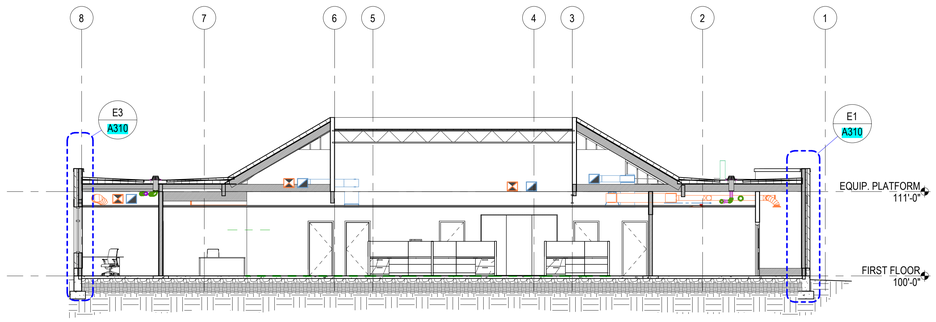
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28 AUGUST 2019

SHEET NAME
EXTERIOR 3D VIEWS

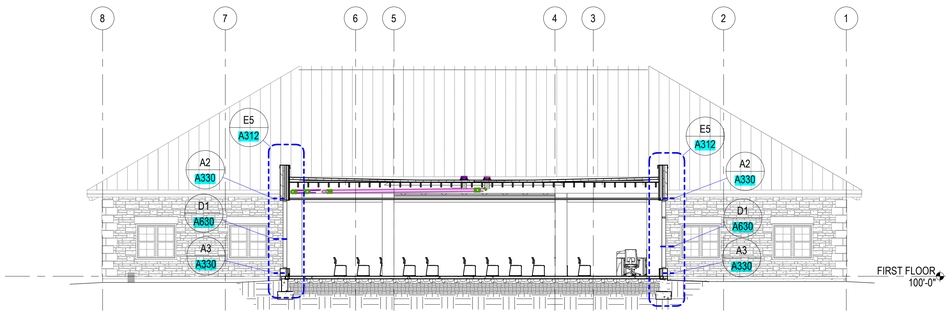
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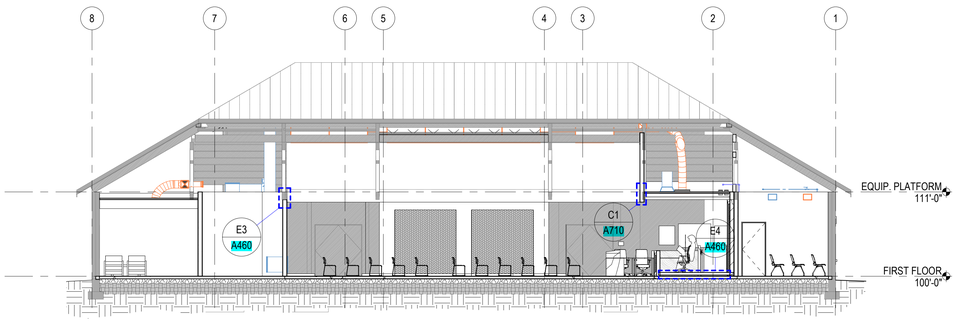
B1 EAST TRANSVERSE BUILDING SECTION

SCALE: 1/8" = 1'-0"



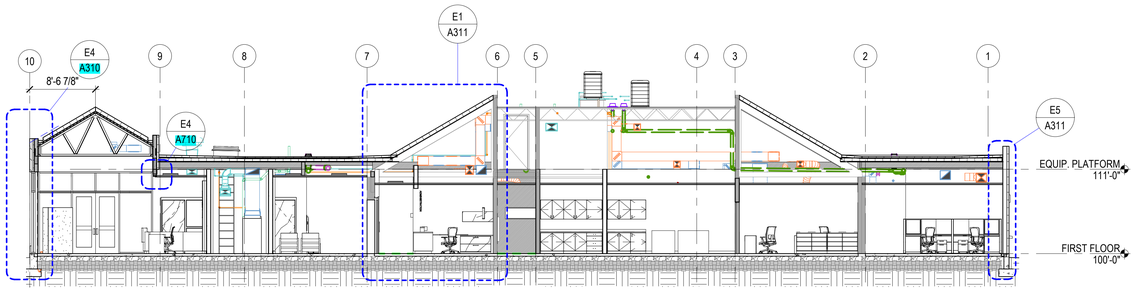
C1 WEST TRANSVERSE BUILDING SECTION

SCALE: 1/8" = 1'-0"



C3 WEST TRANSVERSE BUILDING SECTION CC

SCALE: 1/8" = 1'-0"



E1 TRANSVERSE BUILDING SECTION

SCALE: 1/8" = 1'-0"

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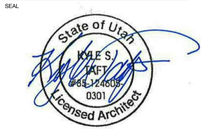
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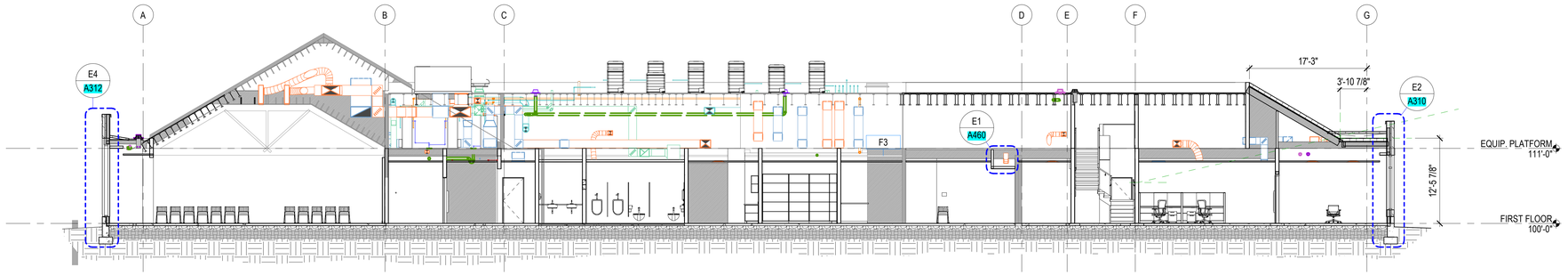
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BUILDING SECTIONS

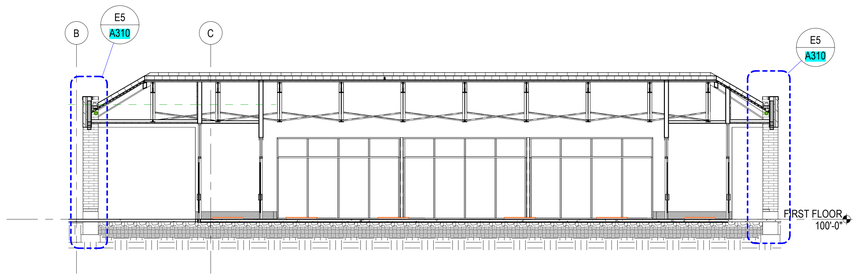
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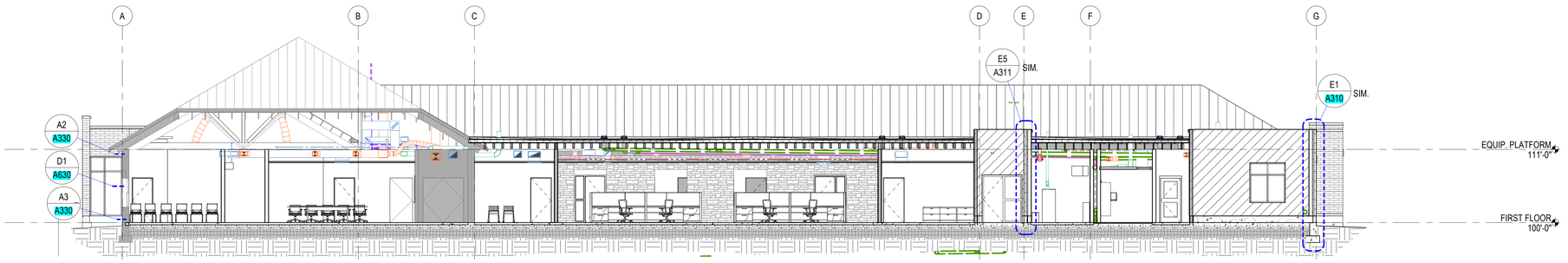
B1 LONGITUDINAL BUILDING SECTION

SCALE: 1/8" = 1'-0"



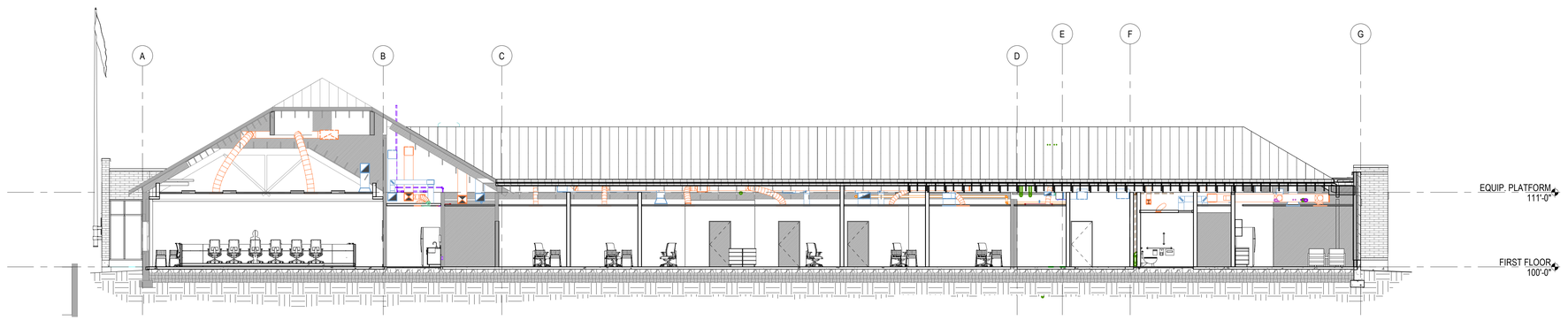
C1 NORTH LONGITUDINAL BUILDING SECTION

SCALE: 1/8" = 1'-0"



D1 SOUTH LONGITUDINAL BUILDING SECTION

SCALE: 1/8" = 1'-0"



E1 SOUTH LONGITUDINAL BUILDING SECTION 2

SCALE: 1/8" = 1'-0"

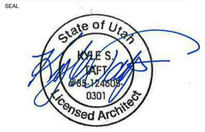
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KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

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ISSUE
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28 AUGUST 2019

SHEET NAME
BUILDING SECTIONS

SHEET NUMBER
A301

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WALL SECTION GENERAL NOTES

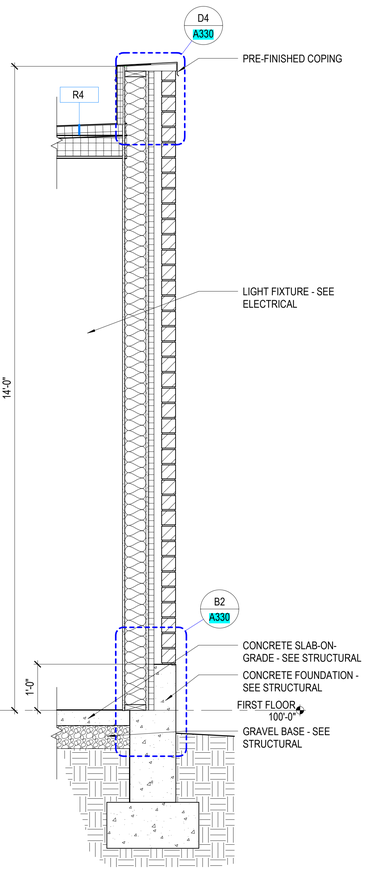
RE: Structural for concrete slab on grade thickness.

RE: G400 for Exterior Wall, Floor and Roof Types.

Air Barrier: Seal penetrations through the air barrier per manufacturer's details.

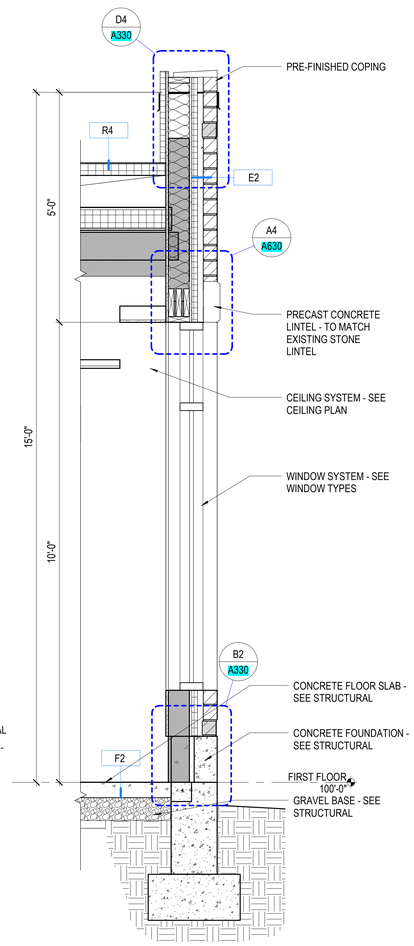
Spray-Applied Fireproofing: Where spray-applied fireproofing is removed for attachment of walls, hangers, clip angles, etc., re-apply the fireproofing material to re-establish the required level of protection.

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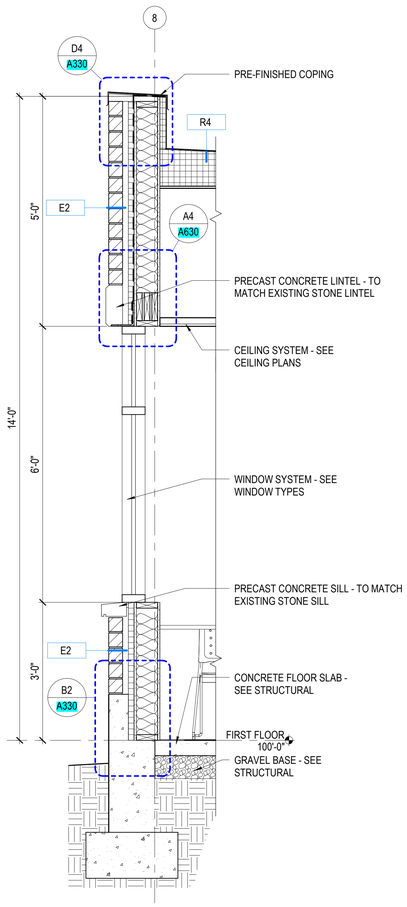
E1 WALL SECTION

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



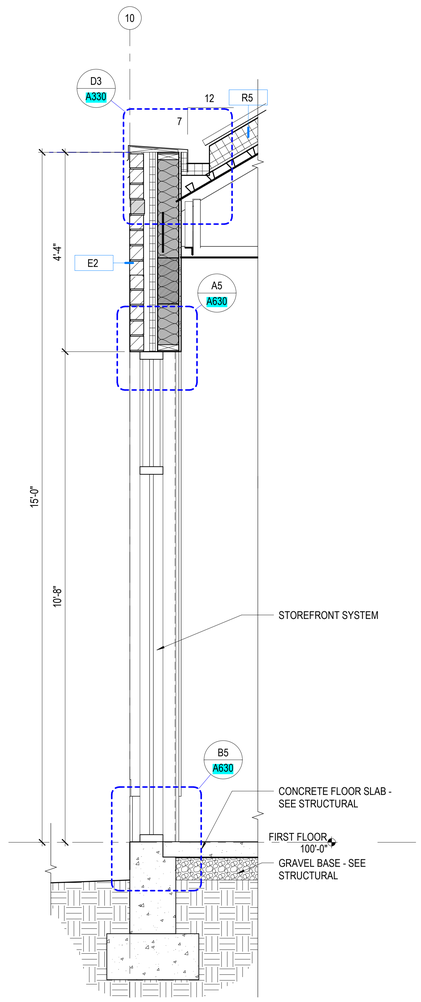
E2 WALL SECTION

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



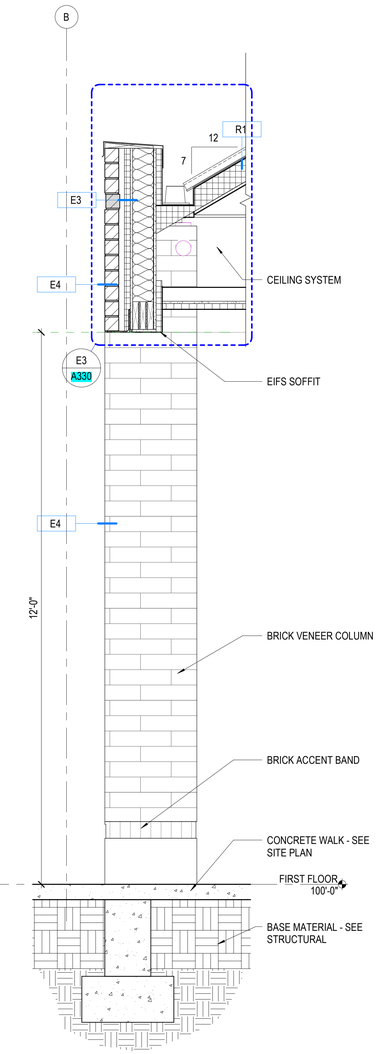
E3 WALL SECTION

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



E4 WALL SECTION

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



E5 WALL SECTION

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

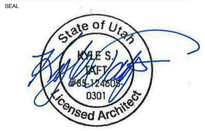
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NO. △	DATE	DESCRIPTION
1	June 28, 2019	Addendum No. 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
WALL SECTIONS

SHEET NUMBER
A310

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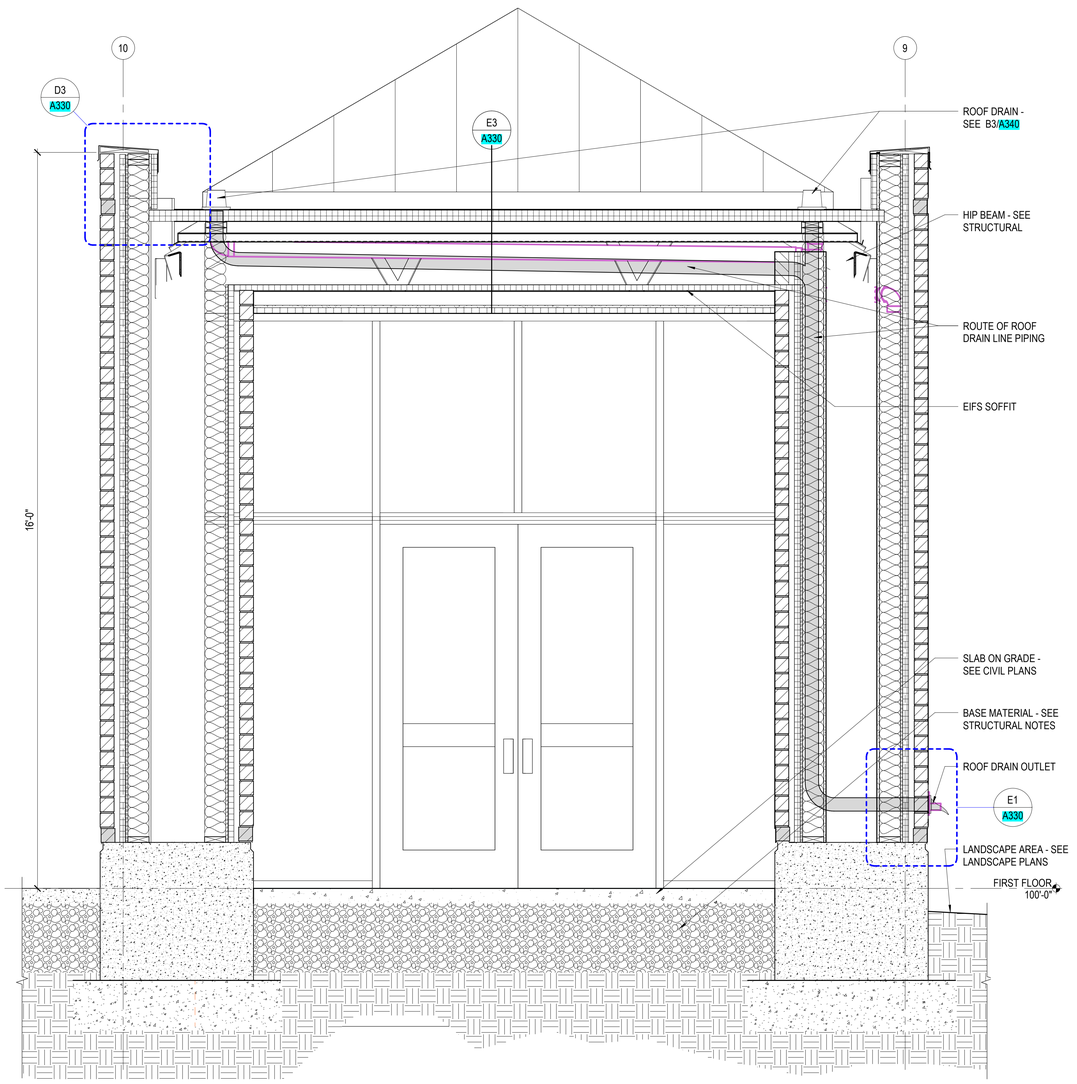
WALL SECTION GENERAL NOTES

RE: Structural for concrete slab on grade thickness.

RE: G400 for Exterior Wall, Floor and Roof Types.

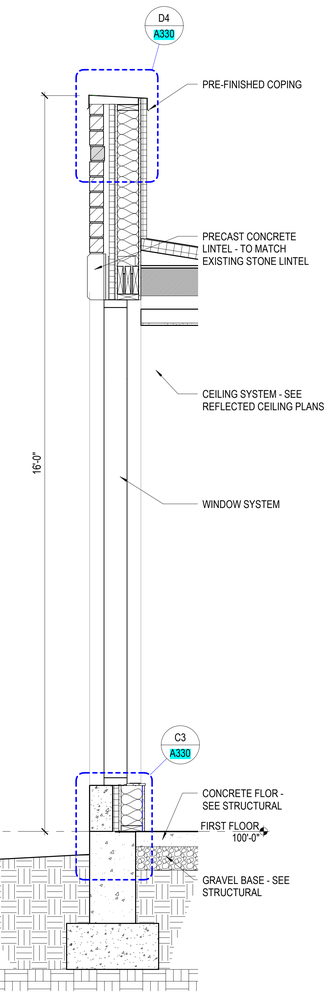
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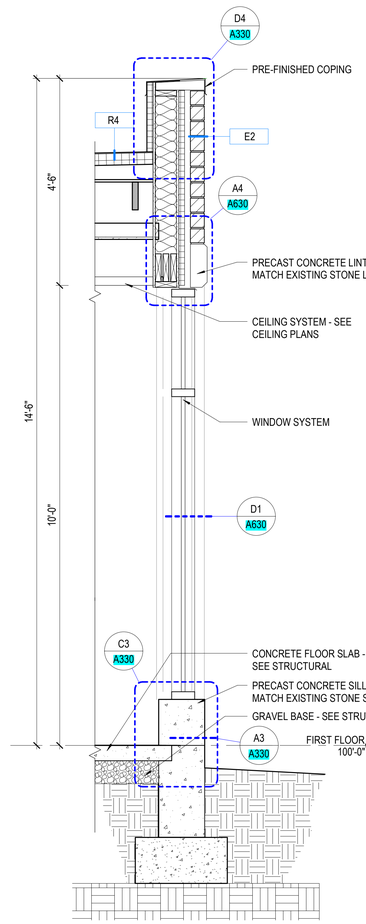
E1 ENTRY DRAINAGE SECTION

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



E4 WALL SECTION

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



E5 WALL SECTION

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

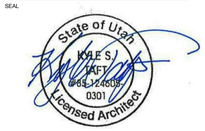
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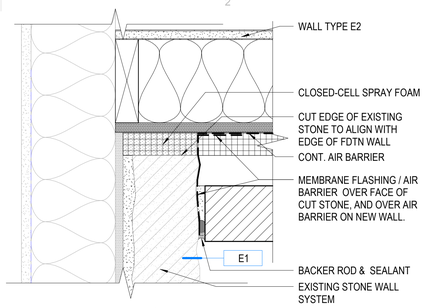
NO.	DATE	DESCRIPTION
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ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
WALL SECTIONS

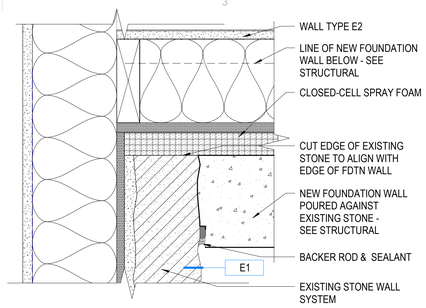
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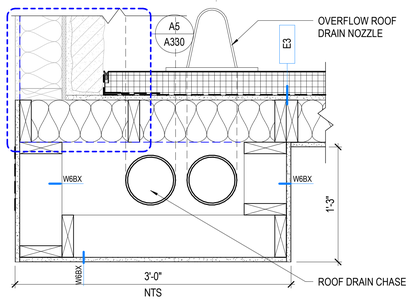
A2 TRANSITION DETAIL

SCALE: 3" = 1'-0"



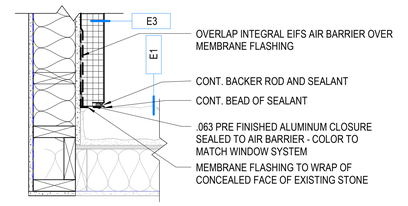
A3 TRANSITION DETAIL

SCALE: 3" = 1'-0"



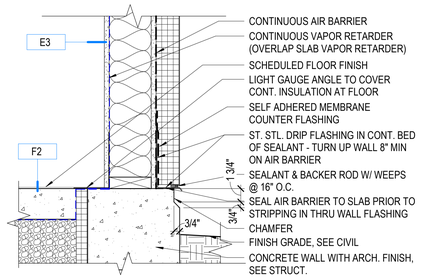
A4 TRANSITION DETAIL

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



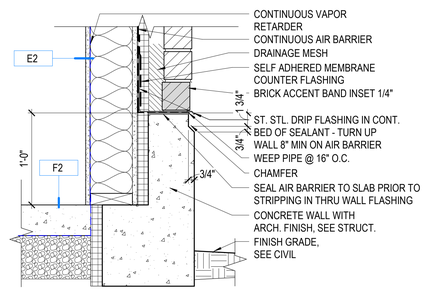
A5 TRANSITION DETAIL

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



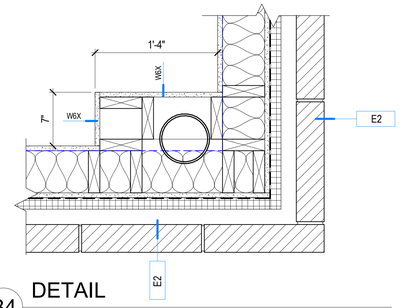
B1 DETAIL

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



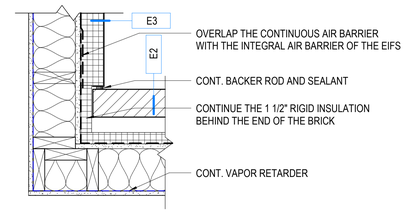
B2 DETAIL

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



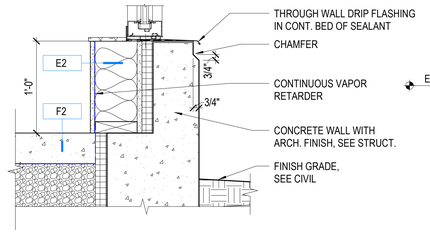
B4 DETAIL

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



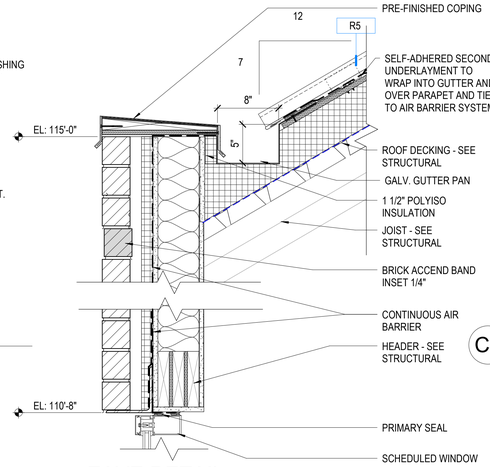
B5 TRANSITION DETAIL

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



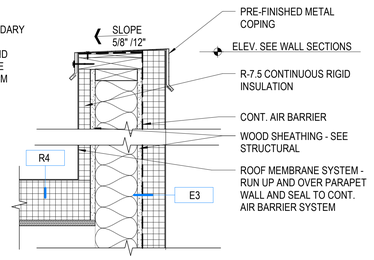
C3 SILL DETAIL

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



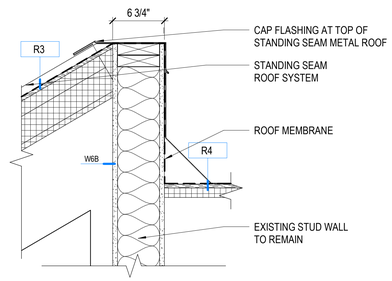
D3 EAVE DETAIL

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



C4 COPING DETAIL

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

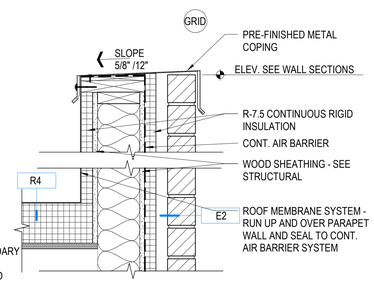


C5 DETAIL

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

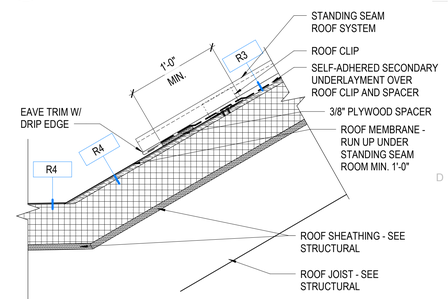
E3 SOFFIT DETAIL

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



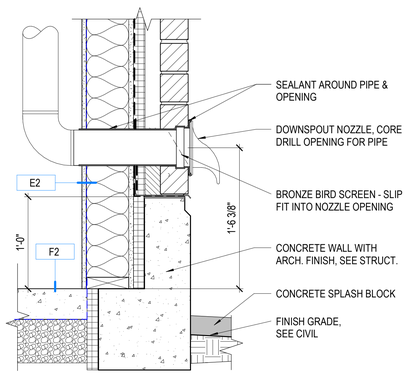
D4 COPING DETAIL

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



D5 TRANSITION DETAIL

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



E1 DETAIL

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

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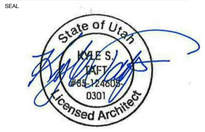
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SEAL



MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

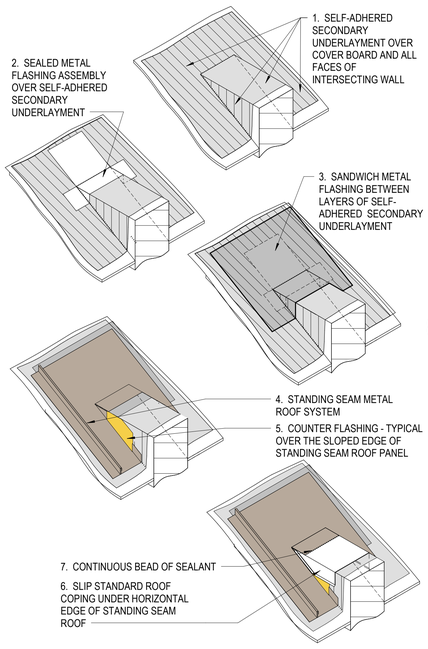
REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION
1	June 25, 2019	Addendum No. 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

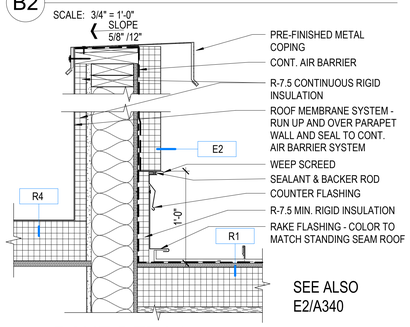
SHEET NAME
ENVELOPE DETAILS

SHEET NUMBER
A330



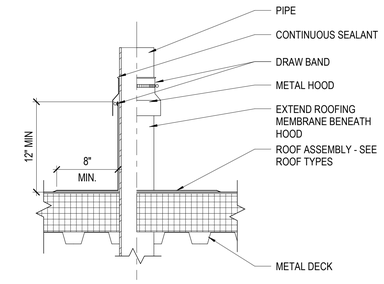
B2 INTERSECTION DETAIL

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



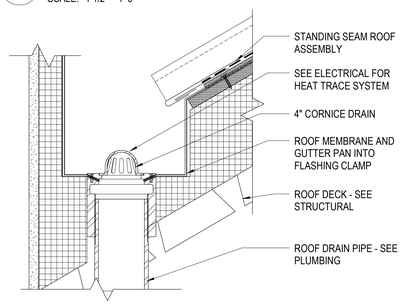
C2 RAKE DETAIL

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



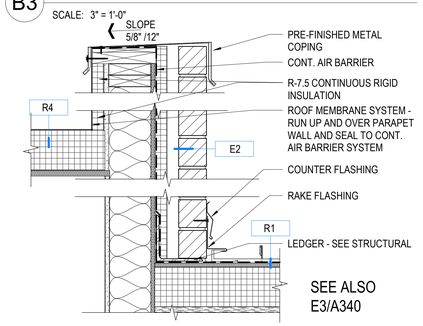
A3 PIPE PENETRATION DETAIL

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



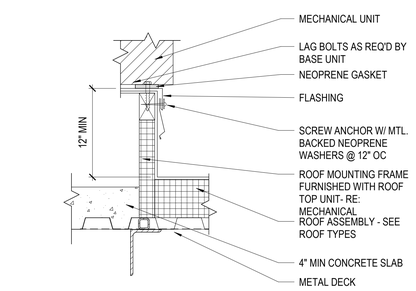
B3 ENTRY DRAIN DETAIL

SCALE: 3" = 1'-0"



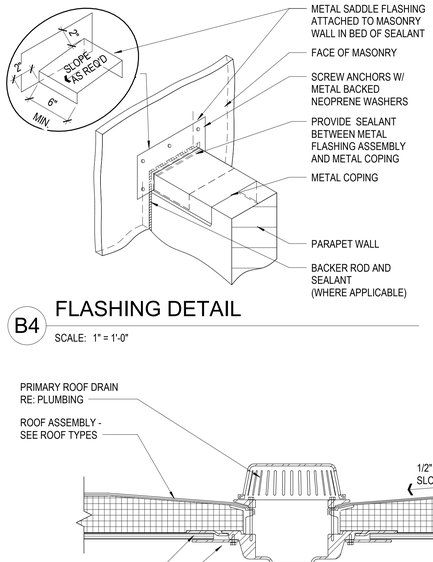
C3 RAKE DETAIL

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



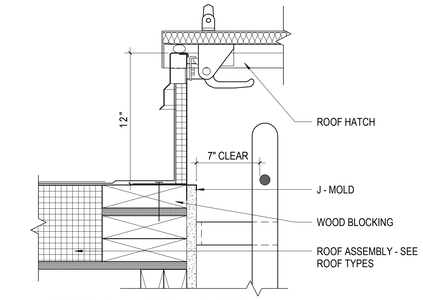
A4 EQUIPMENT CURB DETAIL

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



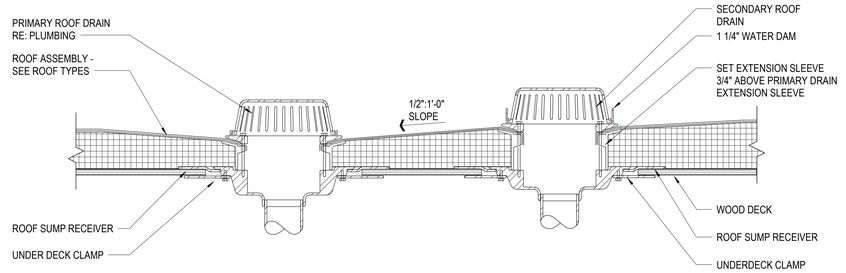
B4 FLASHING DETAIL

SCALE: 1" = 1'-0"



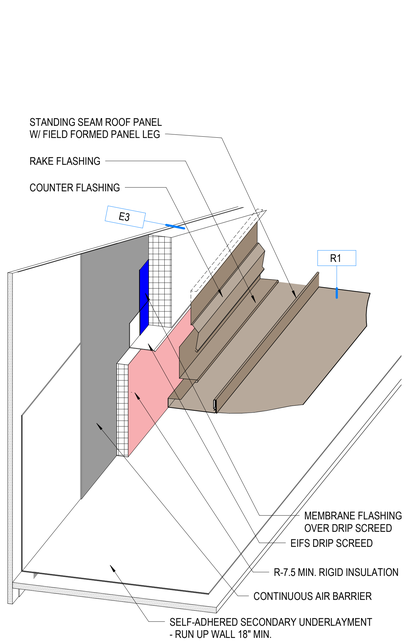
B5 ROOF HATCH DETAIL

SCALE: 3" = 1'-0"



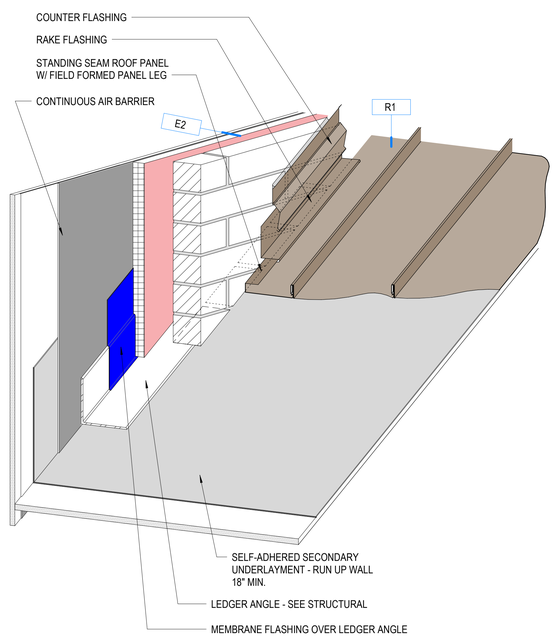
C4 ROOF DRAIN DETAIL - WOOD DECK

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



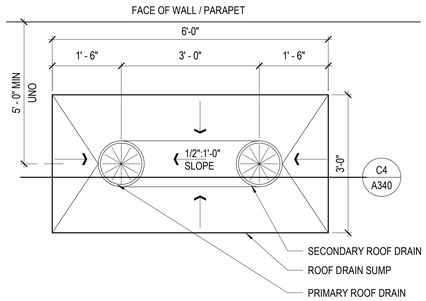
E2 RAKE DETAIL

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



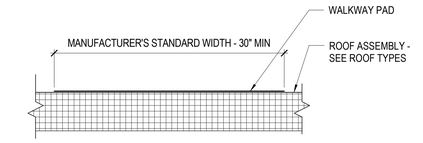
E3 RAKE DETAIL

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



D5 ROOF DRAIN PLAN

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



E5 WALKWAY PAD DETAIL

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

ROOF DETAIL GENERAL NOTES

Terms such as "SEE SPECS," "RE: MECHANICAL" and so forth have been omitted from these details. All details require the general contractor and sub-contractors to refer to other drawings and specifications as required to understand and provide the items indicated and to provide supporting items that may or may not be shown.

The continuous nature of the materials shown in the details is inferred, though the word "continuous" may be omitted from the detail notes.

Cleats: Unless specifically noted otherwise, provide continuous cleats.

Backer Rods: Provide backer rods at all joints that incorporate sealants.

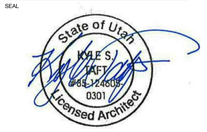
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KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

23 EAST CENTER STREET
KAYSVILLE, UTAH 84037

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SEAL



MHTN PROJECT NO: PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION
1	June 25, 2019	Addendum No. 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
ROOF DETAILS

SHEET NUMBER
A340

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KEYNOTES - INTERIOR ELEVATIONS

1. SHARP COPIER ADMIN
2. SHARP COPIER B/W ADMIN
5. REFRIGERATOR
6. LAM. COUNTERTOP WITH SKIRT
7. MONITOR, SEE AV.
8. ACOUSTICAL PANEL

INTERIOR ELEVATIONS GENERAL NOTES

RE: North American Architectural Woodwork Standards v3.0 (NAAWS), Cabinet Design Series for cabinet types.

RE: G500 for Interior Wall Types.

RE: A640 for the Finish Schedule.

Dimensions shown to walls or casework are to finished face of wall or cabinet, UNO.

Equipment indicated by dashed lines is a general representation and shown for coordination purposes only.

Mechanical, electrical, plumbing and telecom rough-in locations are shown for general coordination purposes only. Refer to mechanical, electrical, plumbing and telecom drawings.

Countertops: 25" deep with 4" high backsplash, UNO. Provide sidesplashes at walls, tall cabinets or similar transitions.

Blocking: Provide blocking in walls at cabinets, wall-mounted accessories, equipment, display boards and similar items.

Finishes: Finishes are required on all exposed and semi-exposed surfaces, UNO. Wall elevations are not shown for walls where the Finish Schedule is deemed adequate to convey the intent.

Cabinet Locks: Provide locks on cabinet drawers and doors, keyed alike by room, UNO.

Casework Finishes: Provide laminate finishes on all exposed and semi-exposed surfaces as required by the specifications. Provide laminate finishes on concealed surfaces if required by the specifications. Refer to NAAWS Section 10.4.4 for definitions of exposed, semi-exposed and concealed surfaces.

PARTIAL PLAN GENERAL NOTES

References to sheets below are provided to aid in navigating the drawings.

RE: G200 for Fixture Mounting Heights.

RE: G400 for Floor, Roof and Exterior Wall Types.

RE: G500 for Interior Wall Types.

Interior Wall Height: All walls are continuous from floor to roof or floor deck above, UNO.

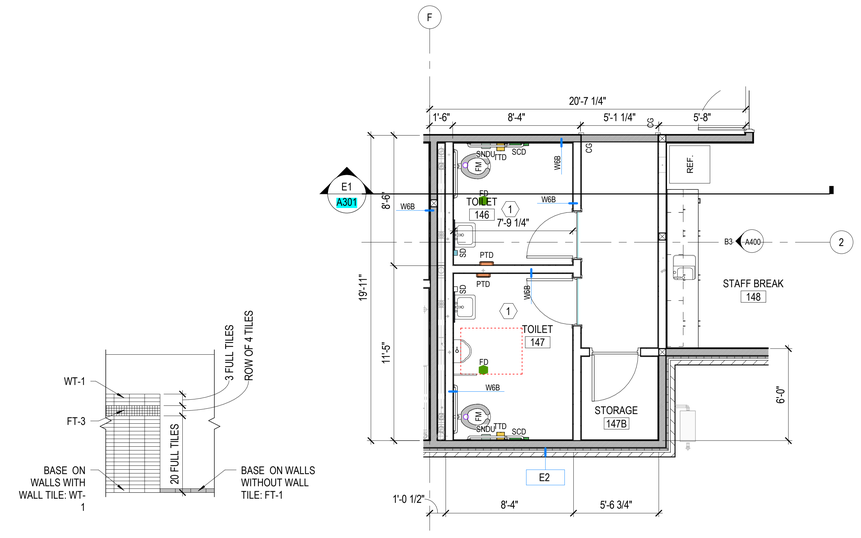
Keynotes: Not all keynotes apply to this sheet.

LEGEND - TOILET ROOMS

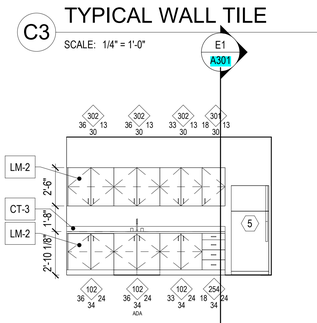
OSOI: OWNER SUPPLIED OWNER INSTALLED

OSCI: OWNER SUPPLIED CONTRACTOR INSTALLED

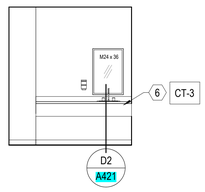
PLAN	ELEVATION	
TTD		TOILET TISSUE DISPENSER **(OSCI)** PRO LINK ELITE BA-80290 2 ROLL - BLACK
HD		HAND DRYER
M24x36		FRAMED MIRROR
SD		SOAP DISPENSER **(OSCI)** BK-99600001 BLACK BUCKEYE SYMMETRY
PTD		PAPER TOWEL DISPENSER **(OSCI)** PRO LINK ELITE BA-771828 ELECTRONIC - BLACK
SNDU		SANITARY NAPKIN DISPOSAL UNIT
SCD		SEAT COVER DISPENSER
DCS		DIAPER CHANGING STATION
RH		ROBE HOOK
WC		WALL MOUNTED WATER CLOSET
FM		FLOOR MOUNTED WATER CLOSET
UR		WALL HUNG URINAL
SD		WALL HUNG LAVATORY
		COUNTER MOUNTED SINK
FD		FLOOR DRAIN
MBH		MOP & BROOM HOLDER
		SANTIZER DISPENSER **(OSOI)** BK-99610001 WHITE BUCKEYE SYMMETRY
		AIR FRESHENER **(OSOI)** FM-TW00WN FMATIC



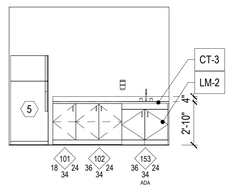
C3 TYPICAL WALL TILE
SCALE: 1/4" = 1'-0"



C4 STAFF TOILETS
SCALE: 1/4" = 1'-0"

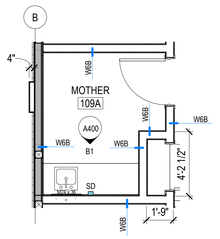


B1 MOTHER'S ROOM
SCALE: 1/4" = 1'-0"



B2 KITCHENETTE
SCALE: 1/4" = 1'-0"

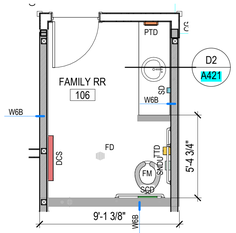
B3 STAFF BREAK - WEST
SCALE: 1/4" = 1'-0"



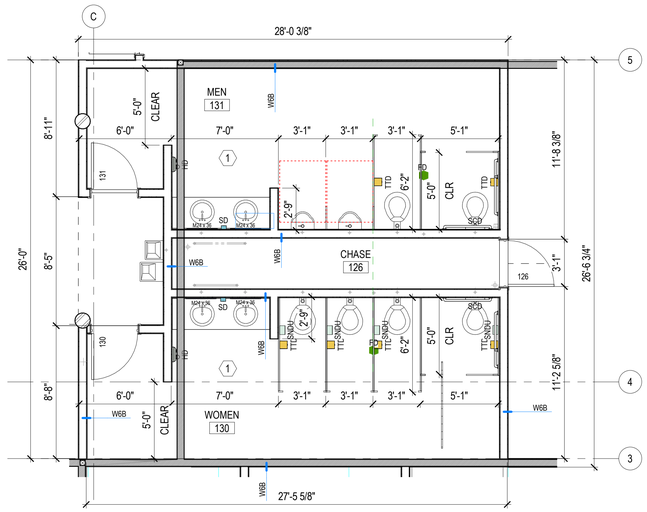
A1 MOTHERS ROOM 109A
SCALE: 1/4" = 1'-0"



A2 KITCHENETTE
SCALE: 1/4" = 1'-0"



A3 FAMILY TOILET
SCALE: 1/4" = 1'-0"



C4 PUBLIC RESTROOMS
SCALE: 1/4" = 1'-0"

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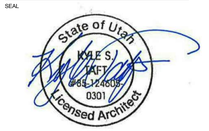
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SEAL



MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

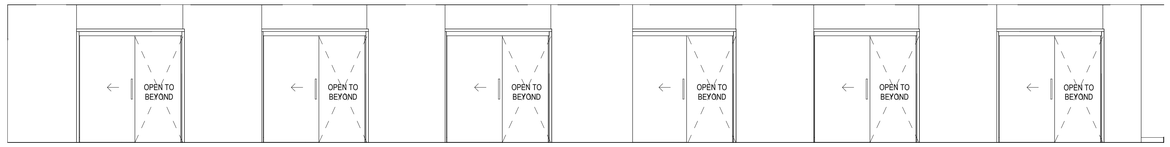
NO.	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
ENLARGED PLANS AND ELEVATIONS

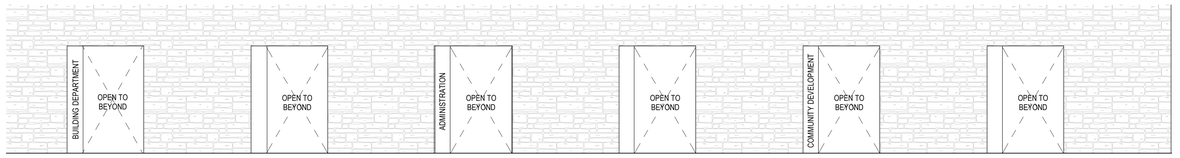
SHEET NUMBER
A400

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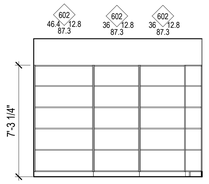
A2 SERVICE DESKS ENTRY -NORTH

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



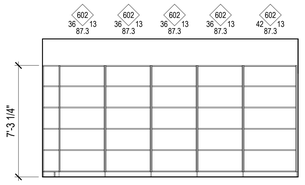
B2 SERVICE DESKS - SOUTH

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



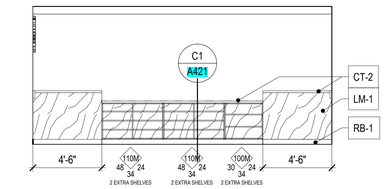
C2 IT TEST

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



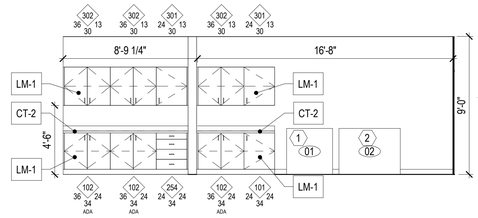
C3 IT TEST

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



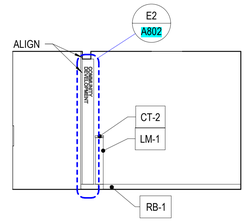
C4 BACK OF COUNTER

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



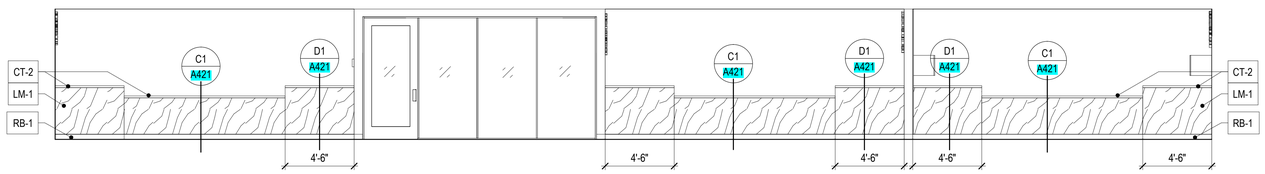
C5 OPEN WORK AREA - EAST

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



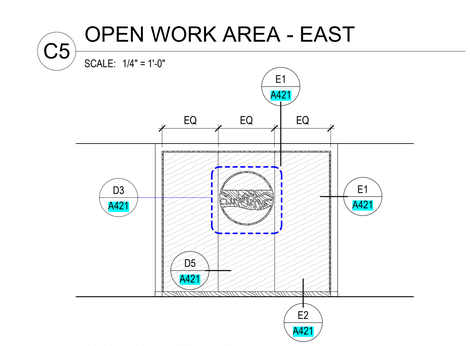
D1 SERVICE DESK SIGNAGE

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



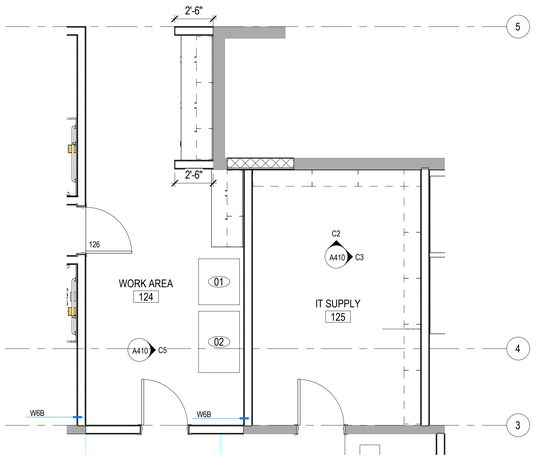
D2 SERVICE DESKS - NORTH

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



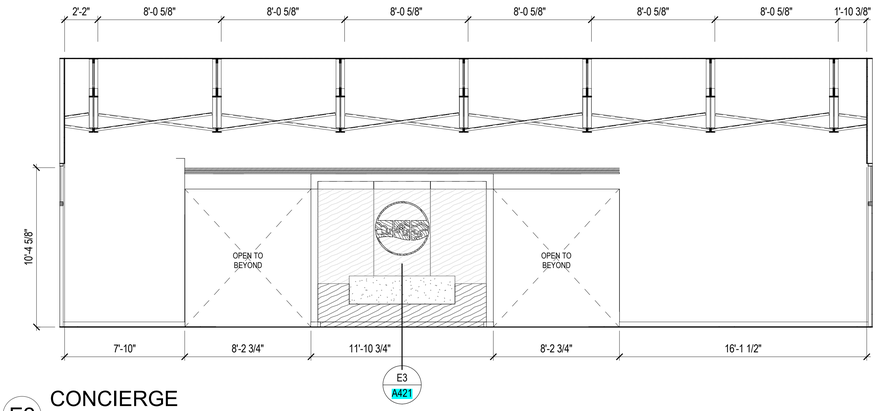
D5 CONCIERGE REAR WALL

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



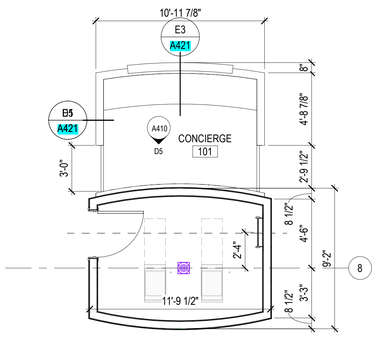
E1 OPEN WORK AREA

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



E2 CONCIERGE

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



E5 CONCIERGE

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

INTERIOR ELEVATIONS GENERAL NOTES

RE: North American Architectural Woodwork Standards v3.0 (NAAWS), Cabinet Design Series for cabinet types.

RE: G500 for Interior Wall Types.

RE: A640 for the Finish Schedule.

Dimensions shown to walls or casework are to finished face of wall or cabinet, UNO.

Equipment indicated by dashed lines is a general representation and shown for coordination purposes only.

Mechanical, electrical, plumbing and telecom rough-in locations are shown for general coordination purposes only. Refer to mechanical, electrical, plumbing and telecom drawings.

Countertops: 25" deep with 4" high backsplash, UNO. Provide sidesplashes at walls, tall cabinets or similar transitions.

Blocking: Provide blocking in walls at cabinets, wall-mounted accessories, equipment, display boards and similar items.

Finishes: Finishes are required on all exposed and semi-exposed surfaces, UNO. Wall elevations are not shown for walls where the Finish Schedule is deemed adequate to convey the intent.

Cabinet Locks: Provide locks on cabinet drawers and doors, keyed alike by room, UNO.

Casework Finishes: Provide laminate finishes on all exposed and semi-exposed surfaces as required by the specifications. Provide laminate finishes on concealed surfaces if required by the specifications. Refer to NAAWS Section 10.4.4 for definitions of exposed, semi-exposed and concealed surfaces.

KEYNOTES - INTERIOR ELEVATIONS

1. SHARP COPIER ADMIN
2. SHARP COPIER B/W ADMIN
5. REFRIGERATOR
6. LAM. COUNTERTOP WITH SKIRT
7. MONITOR, SEE AV.
8. ACOUSTICAL PANEL

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SEAL



MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
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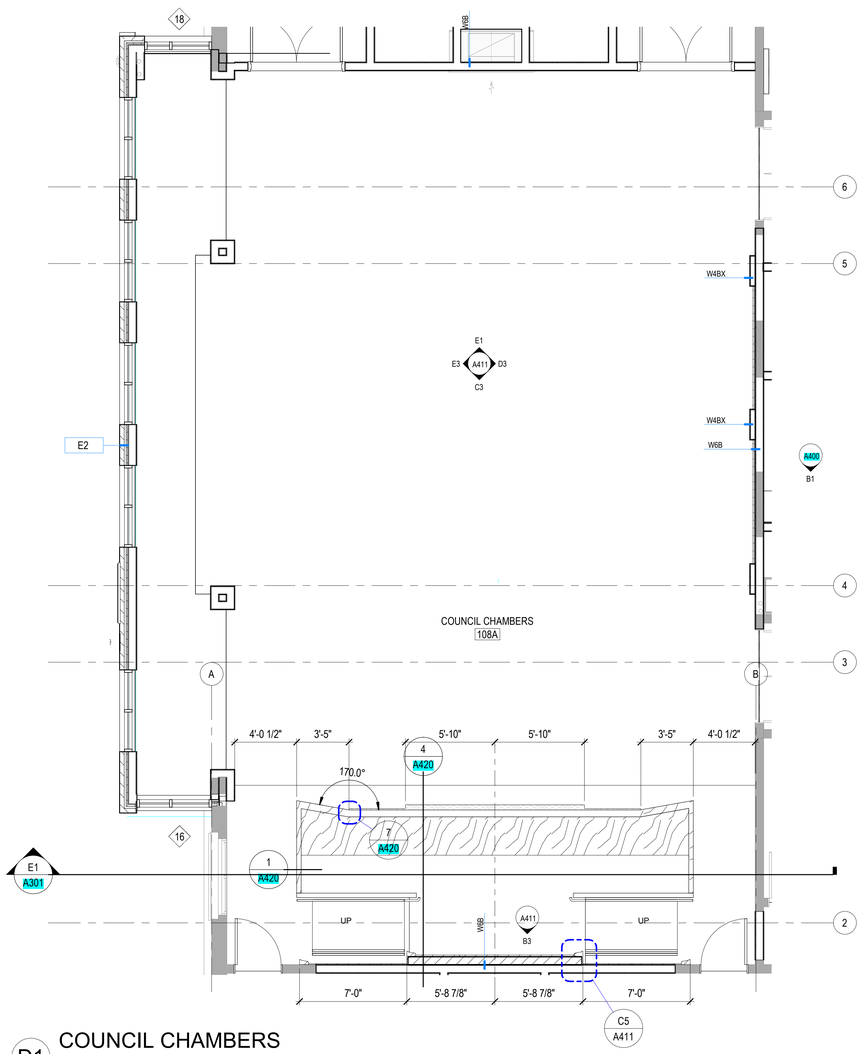
NO.	DATE	DESCRIPTION
1	June 25, 2019	Addendum No. 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
INTERIOR ELEVATIONS

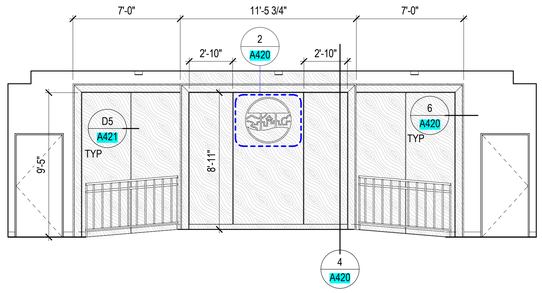
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A410

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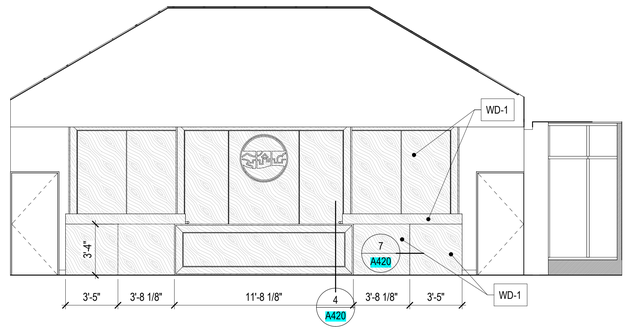
D1 COUNCIL CHAMBERS

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



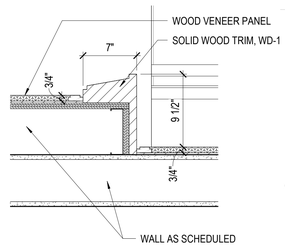
B3 ELEVATION

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



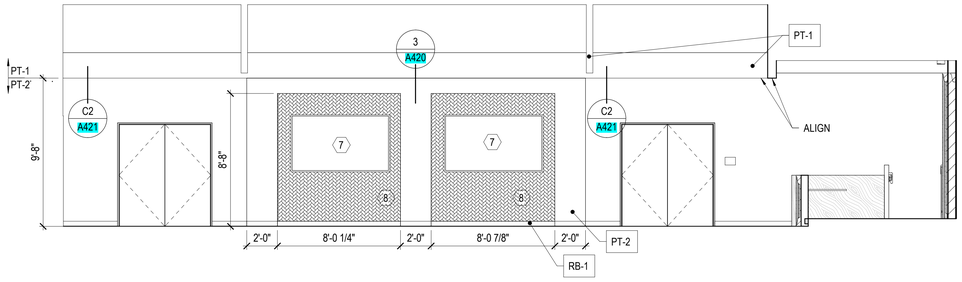
C3 COUNCIL CHAMBERS - SOUTH

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



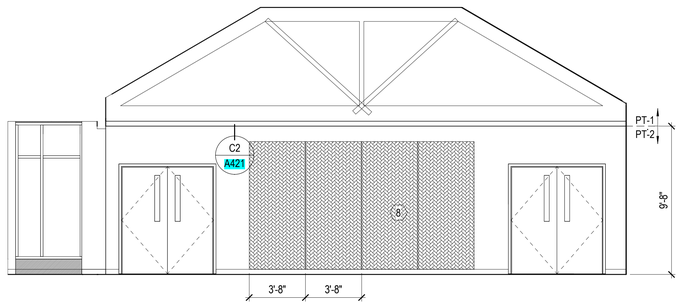
C5 DETAIL

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



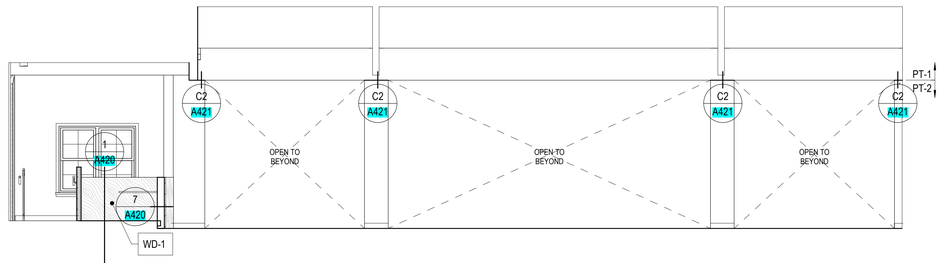
D3 COUNCIL CHAMBERS - EAST

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



E1 COUNCIL CHAMBERS - NORTH

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



E3 COUNCIL CHAMBERS - WEST

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

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NO.	DATE	DESCRIPTION
1	June 25, 2019	Addendum No. 1

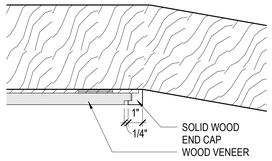
ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
INTERIOR ELEVATIONS

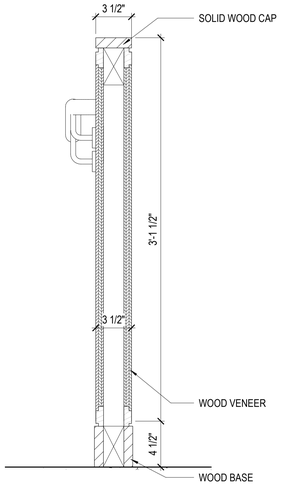
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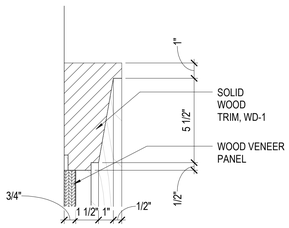
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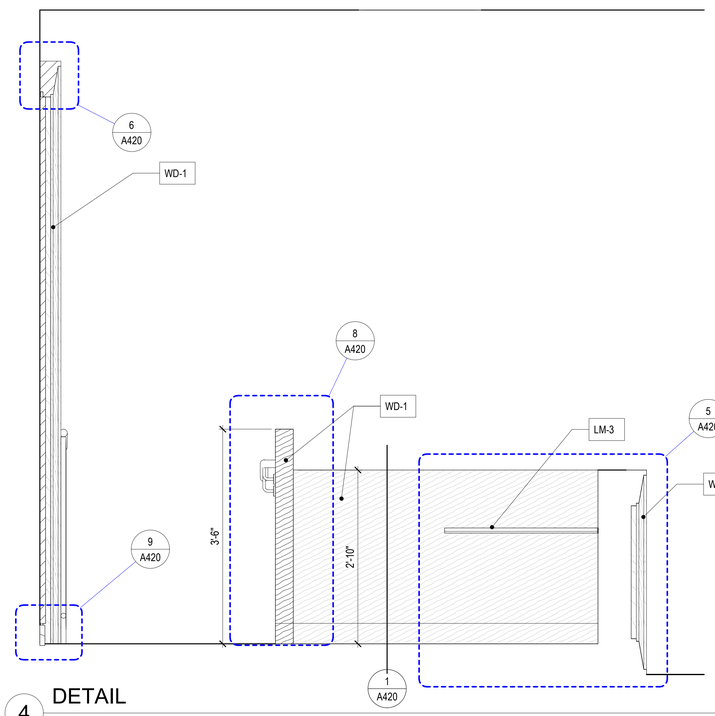
7 DETAIL
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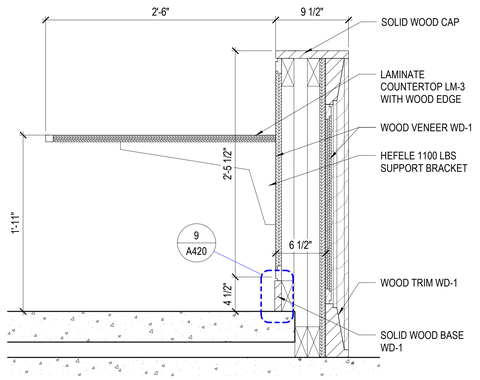
8 DETAIL
SCALE: 1 : 6



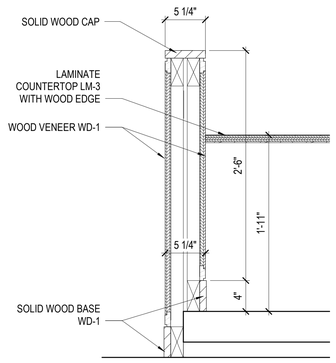
6 DETAIL - TRIM PROFILE
SCALE: 3" = 1'-0"



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

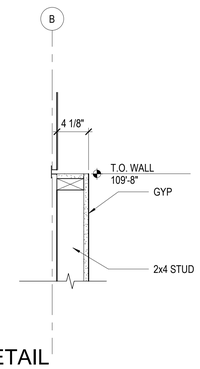


5 DETAIL
SCALE: 1 1/2" = 1'-0"

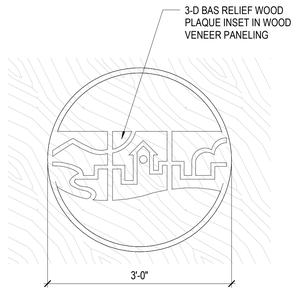


1 Detail 22
SCALE: 1 1/2" = 1'-0"

9 DETAIL - WOOD BASE
SCALE: 3" = 1'-0"



3 DETAIL
SCALE: 1 1/2" = 1'-0"



2 DETAIL
SCALE: 1" = 1'-0"

KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

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MHTN PROJECT NO. PROJ #2018576

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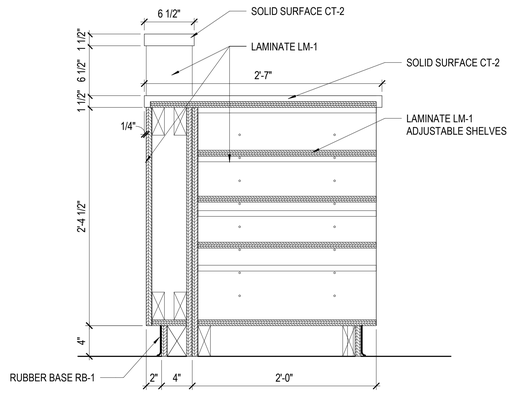
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1	June 25, 2019	Addendum No. 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
CASEWORK DETAILS

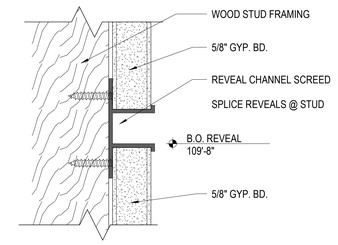
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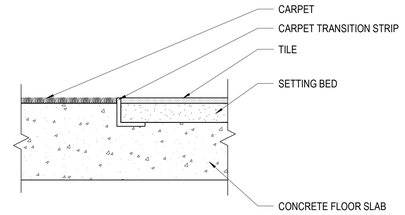
C1 DESK DETAIL

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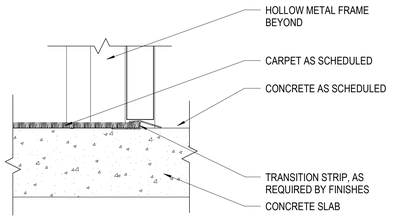
C2 GYP REVEAL

SCALE: 12" = 1'-0"



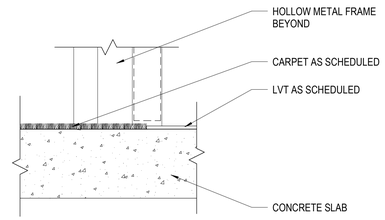
A3 RECESSED FLOOR TILE

SCALE: 3" = 1'-0"



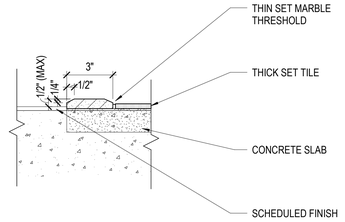
C3 THRESHOLD DETAIL

SCALE: 3" = 1'-0"



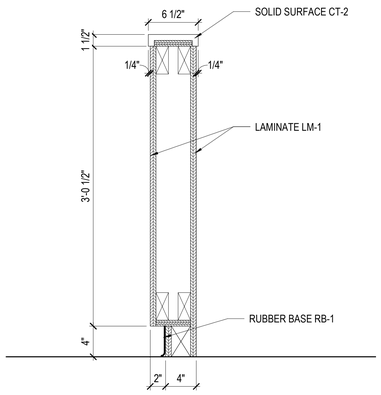
A5 THRESHOLD DETAIL

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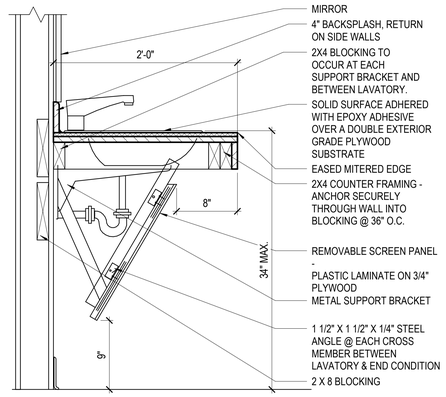
C5 THRESHOLD DETAIL

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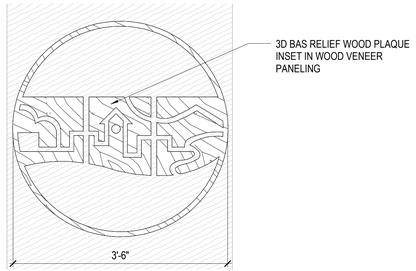
D1 DETAIL

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



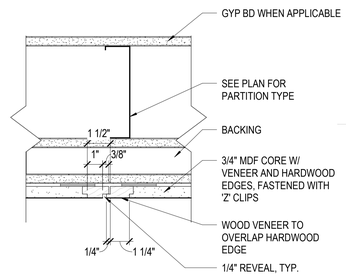
D2 ADA SINK

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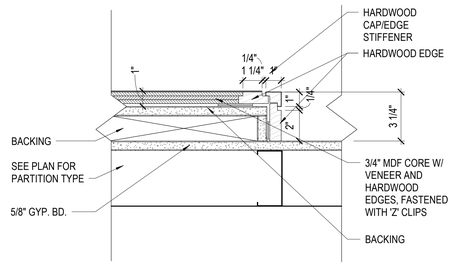
D3 DETAIL

SCALE: 1" = 1'-0"



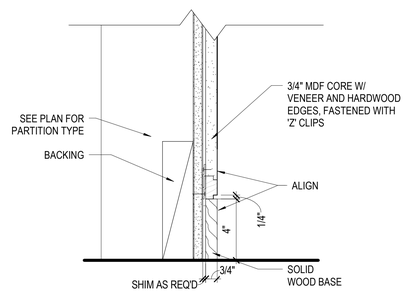
D5 DETAIL

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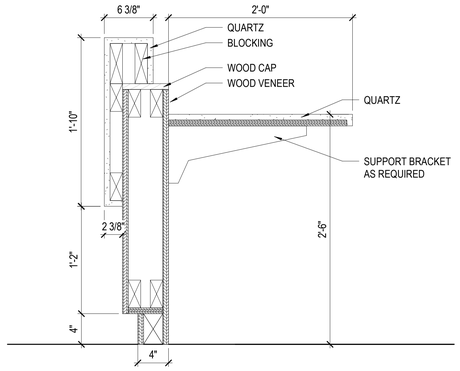
E1 DETAIL

SCALE: 3" = 1'-0"



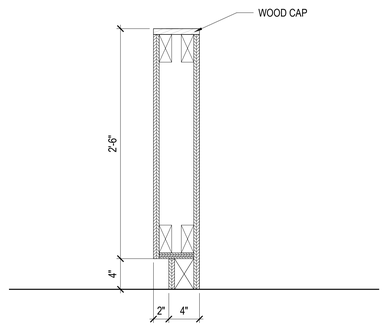
E2 DETAIL

SCALE: 3" = 1'-0"



E3 DETAIL

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



E5 DETAIL

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

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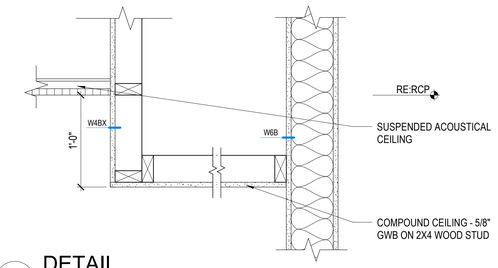
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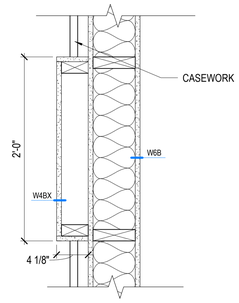
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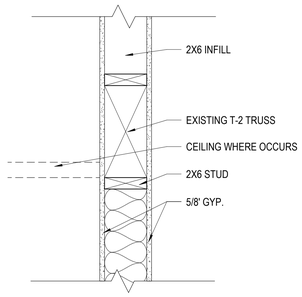
E1 DETAIL

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



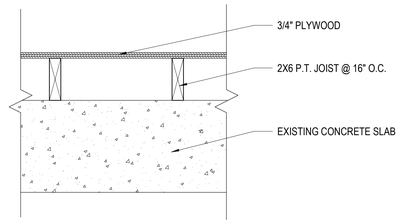
E2 DETAIL

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



E3 DETAIL

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



E4 DETAIL

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

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KAYSVILLE, UTAH 84037

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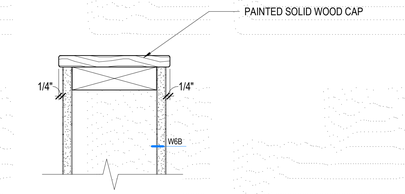
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INTERIOR DETAILS

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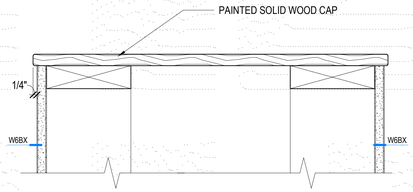
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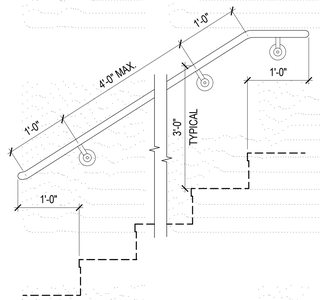
A1 WALL CAP DETAIL

SCALE: 3" = 1'-0"



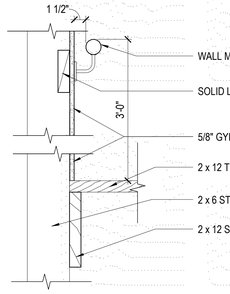
B1 WALL CAP DETAIL

SCALE: 3" = 1'-0"



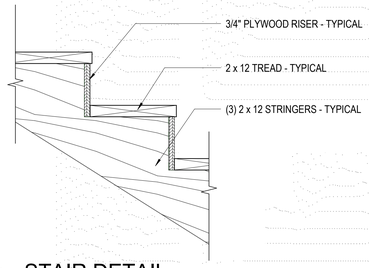
C1 HANDRAIL DETAIL

SCALE: 1" = 1'-0"



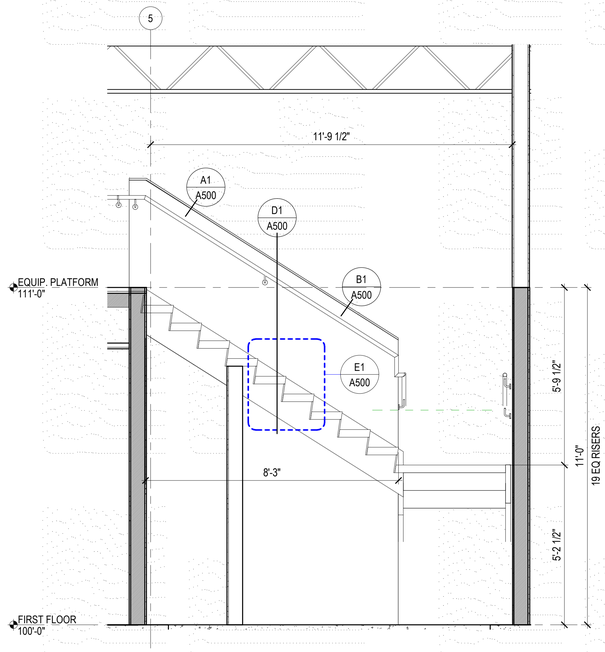
D1 STAIR SECTION

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



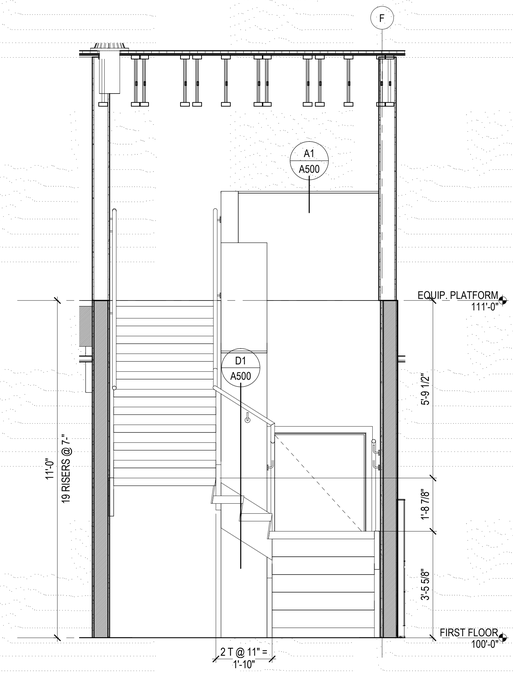
E1 STAIR DETAIL

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



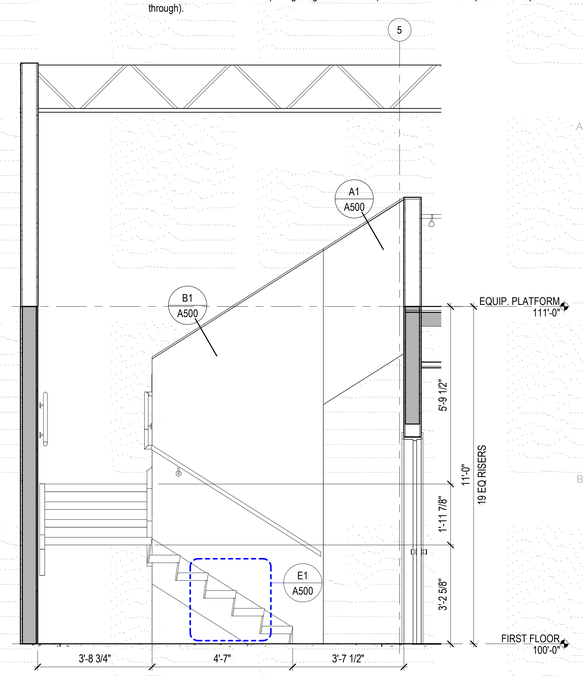
B2 STAIR 01 SECTION -WEST

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



B3 Detail 25

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

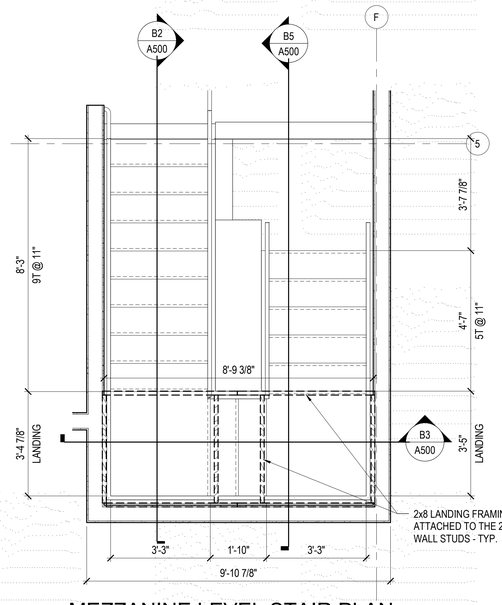


B5 STAIR 01 SECTION - WEST FULL HEIGHT

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

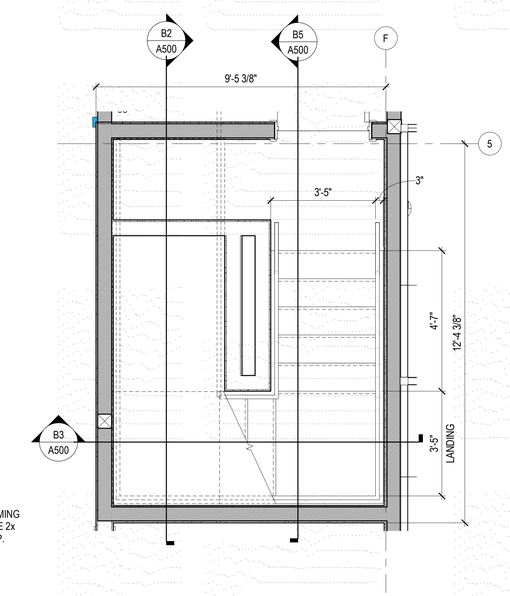
4 STAIR

SCALE:



E3 MEZZANINE LEVEL STAIR PLAN

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



E5 FIRST FLOOR STAIR PLAN

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

VERTICAL CIRCULATON GENERAL NOTES

Guards: Maximum allowable openings at guards is 3 7/8" (such that a 4" diameter sphere cannot pass through).

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DOOR AND FRAME SCHEDULE

DOOR #	DOOR TYPE	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR MATERIAL	FRAME TYPE	FRAME MATERIAL	HEAD DETAIL	JAMB DETAIL	SILL DETAIL	FIRE RATING (MIN)	HARDWARE SET	REMARKS	DOOR #
100A	F	3'-0"	7'-0"	1 3/4"	HM	6	HM	B5/A610	C5/A610		--	01	CARD READER	100A
100B	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			22	CARD READER	100B
100C	Z	3'-4 1/2"	7'-3 1/8"	1 3/4"	WD	7	HM	A1/A610	D5/A610	E1/A610		G1	AD SYSTEMS INSET SLIDE DOOR AS BASIS OF DESIGN	100C
100D	Z	3'-4 1/2"	7'-3 1/8"	1 3/4"	WD	7	HM	A1/A610	D5/A610	E1/A610		G1	AD SYSTEMS INSET SLIDE DOOR AS BASIS OF DESIGN	100D
100E	Z	3'-4 1/2"	7'-3 1/8"	1 3/4"	WD	7	HM	A1/A610	D5/A610	E1/A610		G1	AD SYSTEMS INSET SLIDE DOOR AS BASIS OF DESIGN	100E
100F	Z	3'-4 1/2"	7'-3 1/8"	1 3/4"	WD	7	HM	A1/A610	D5/A610	E1/A610		G1	AD SYSTEMS INSET SLIDE DOOR AS BASIS OF DESIGN	100F
100G	Z	3'-4 1/2"	7'-3 1/8"	1 3/4"	WD	7	HM	A1/A610	D5/A610	E1/A610		G1	AD SYSTEMS INSET SLIDE DOOR AS BASIS OF DESIGN	100G
100H	Z	3'-4 1/2"	7'-3 1/8"	1 3/4"	WD	7	HM	A1/A610	D5/A610	E1/A610		G1	AD SYSTEMS INSET SLIDE DOOR AS BASIS OF DESIGN	100H
102	F	3'-0"	7'-0"	1 3/4"	HM	1	HM	B4/A610	C4/A610			14		102
103A	F	3'-0"	7'-0"	1 3/4"	WD	5	HM	B4/A610	C4/A610	A3A421		12		103A
103B	F	3'-0"	7'-0"	1 3/4"	WD	5	HM	B4/A610	C4/A610	A3/A421		12		103B
105	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610	B3/A421		15		105
106	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			11	EXISTING DOOR TO REMAIN	106
107	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			15		107
108A	N	6'-0"	7'-0"	1 3/4"	WD	3	HM	B4/A610	C4/A610			19		108A
108B	N	6'-0"	7'-0"	1 3/4"	WD	3	HM	B4/A610	C4/A610			19		108B
108C(e)	F	6'-0"	6'-8"	1 3/8"	WD	3	HM	B4/A610	C4/A610			18	EXISTING DOOR FRAME TO REMAIN	108C(e)
108D(e)	F	6'-0"	6'-8"	1 3/8"	WD	3	HM	B4/A610	C4/A610			18	EXISTING DOOR FRAME TO REMAIN	108D(e)
109A	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			11		109A
109B	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			09		109B
110	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			15		110
111(e)	F	3'-0"	6'-8"	1 3/4"	--	1	--	--	--	B5/A421		06	EXISTING DOOR FRAME TO REMAIN	111(e)
112	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			15		112
113	F	3'-0"	7'-0"	1 3/4"	HM	1	HM	B4/A610	C4/A610			17	CARD READER	113
114	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			12		114
114A(e)	AA	3'-4"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			12	EXISTING DOOR FRAME TO REMAIN	114A(e)
115	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			13		115
120	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			13		120
121	F	3'-0"	7'-0"	1 3/4"	WD	5	HM	B4/A610	C4/A610			13		121
122A	F	3'-0"	7'-0"	1 3/4"	WD	5	HM	B4/A610	C4/A610			13		122A
122B	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			13		122B
123	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			13		123
125	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			13		125
126	F	3'-0"	6'-8"	1 3/4"	HM	1	HM	B4/A610	C4/A610			10		126
128	F	3'-0"	7'-0"	1 3/4"	WD	5	HM	B4/A610	C4/A610			13		128
129	F	3'-0"	7'-0"	1 3/4"	WD	5	HM	B4/A610	C4/A610			13		129
130	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610	B5/A421		05		130
131	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610	B5/A421		05		131
134(e)	F	3'-0"	6'-8"	1 3/4"	--	1	--	--	--			06	EXISTING DOOR FRAME TO REMAIN	134(e)
134A	--	3'-6"	7'-11"	1 3/4"								C1	CARD READER	134A
136(e)	F	4'-0"	7'-0"	1 3/4"	--	2	--	--	--			03	EXISTING VAULT DOOR TO BE RELOCATED	136(e)
141	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			12		141
142	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			16		142
143	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			17	CARD READER	143
144	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			14		144
145	F	3'-0"	6'-8"	1 3/4"	HM	1	HM	B5/A610	C5/A610			02		145
146	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610	B5/A421		11		146
147	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610	B5/A421		11		147
147B	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			15		147B
148	F	3'-0"	7'-0"	1 3/4"	WD	1	HM	B4/A610	C4/A610	A5/A421		08		148
149A	F	3'-0"	7'-0"	1 3/4"	WD	1	HM	B4/A610	C4/A610			12		149A
149B	F	3'-0"	7'-0"	1 3/4"	WD	1	HM	B4/A610	C4/A610			12		149B
150	F	3'-0"	7'-0"	1 3/4"	WD	1	HM	B4/A610	C4/A610			13		150
151	F	3'-0"	7'-0"	1 3/4"	WD	1	HM	B4/A610	C4/A610			13		151
153	F	3'-0"	7'-0"	1 3/4"	WD	1	HM	B4/A610	C4/A610			13		153
154	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			13		154
155	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			13		155
156	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			15		156
217(e)	F	3'-0"	7'-0"	1 3/4"	--	1	--	--	--			07	EXISTING DOOR TO REMAIN	217(e)
218(e)	F	3'-0"	7'-0"	1 3/4"	--	1	--	--	--			07	EXISTING DOOR TO REMAIN	218(e)
219	F	3'-0"	7'-0"	1 3/4"	HM	1	HM	B4/A610	C4/A610		45	04		219
221	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			22	CARD READER	221
D30	F	3'-0"	6'-8"	1 3/4"		1								D30
H100	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			21	EMERGENCY EXIT ONLY	H100
H102	F	3'-0"	7'-0"	1 3/4"	WD	6	HM	B5/A610	C5/A610			01	CARD READER	H102
H103	F	3'-0"	6'-8"	1 3/4"	WD	1	HM	B4/A610	C4/A610			22	CARD READER	H103
V01-A(e)	FG	6'-0"	6'-8"	1 3/8"	--		--	--	--			A2	EXISTING DOOR AND FRAME TO REMAIN, CARD READER	V01-A(e)
V01-B(e)	FG	6'-0"	6'-8"	1 3/8"	--		--	--	--		--	B1	EXISTING DOOR & FRAME TO REMAIN	V01-B(e)
V02-A	FG	6'-0"	7'-11"	1 3/4"	AL	-	AL			B3/A421		A1	ADA OPERATOR / CARD READER	V02-A
V02-B	FG	6'-0"	7'-11"	1 3/4"	AL	-	AL			A3/A421		B1	ADA OPERATOR	V02-B
V03-C	FG	6'-0"	7'-11"	1 3/4"	AL	-	AL			A3/A421		B1	ADA OPERATOR	V03-C
V03-D	H	6'-0"	7'-11"	1 3/4"	AL	-	AL			B3/A421		A1	ADA OPERATOR / CARD READER	V03-D
Grand total: 72														

GLAZING SCHEDULE

1	12MM (1/2") CLEAR TEMPERED FLOAT GLASS
2	6mm CLEAR TEMPERED FLOAT GLASS
11	1" CLEAR INSULATED GLASS
12	1" CLEAR TEMPERED INSULATED GLASS
13	1" LOW-E COATED, CLEAR INSULATED GLASS
14	1" LOW-E COATED, CLEAR TEMPERED INSULATED GLASS

DOOR SCHEDULE GENERAL NOTES

RE: A620 for the Glazing Schedule.

RE: Division 8 Section "Door Hardware" for hardware sets.

Door Leaves: At each door, provide the number of leaves shown on the plans. Where two leaves are shown, provide equal leaves, UNO.

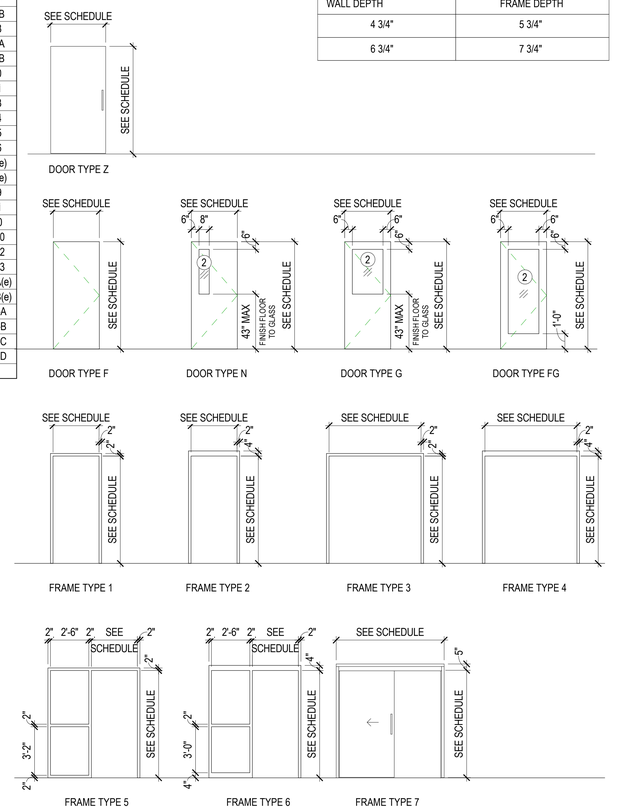
Frame Depth: Coordinate hollow metal frame depth with wall thickness, wrapping stud framed walls. Provide depths as scheduled for masonry walls, UNO.

Abbreviations: Door and Frame Schedule Remarks abbreviations:

ADA	ADA Actuator
CR	Card Reader
DE	Delayed Egress
EL	Electric Latch
ES	Electric Strike
MO	Motor Operation
MHO	Magnetic Hold Open

HOLLOW METAL FRAME DEPTH SCHEDULE

WALL DEPTH	FRAME DEPTH
4 3/4"	5 3/4"
6 3/4"	7 3/4"



DOOR & FRAME TYPES

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6984124608
0301
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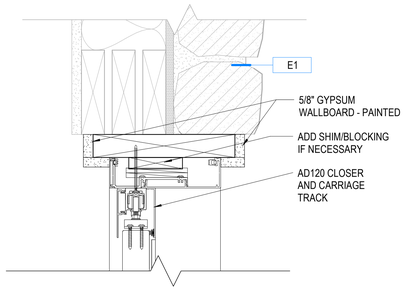
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CONFORMANCE SET
28 AUGUST 2019

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DOOR SCHEDULE

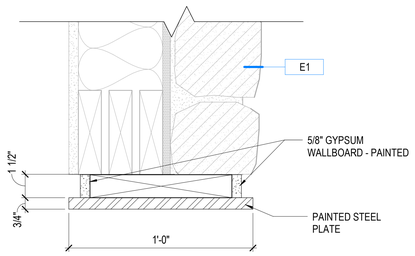
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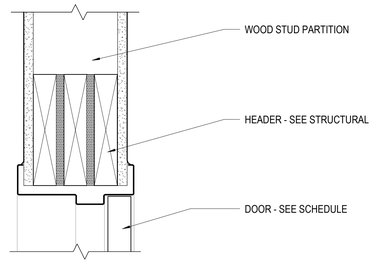
A1 HEAD DETAIL

SCALE: 3" = 1'-0"



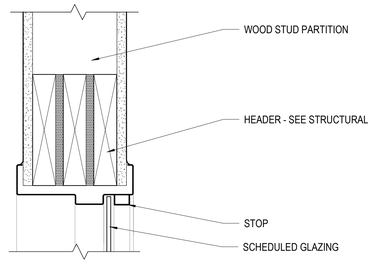
B2 HEAD DETAIL

SCALE: 3" = 1'-0"



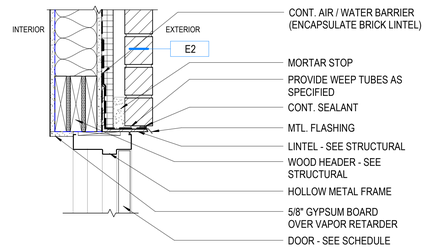
B3 HEAD DETAIL

SCALE: 3" = 1'-0"



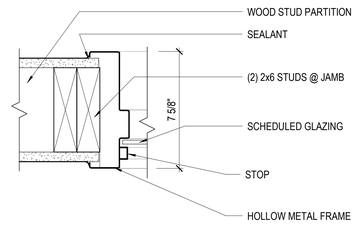
B4 HEAD DETAIL

SCALE: 3" = 1'-0"



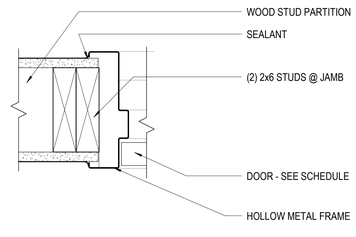
B5 EXTERIOR WALL TYPE

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



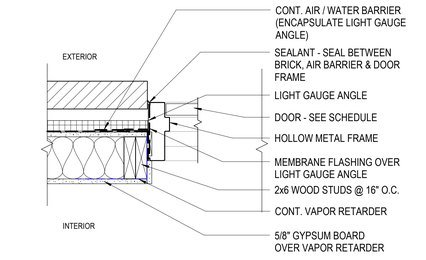
C3 JAMB DETAIL

SCALE: 3" = 1'-0"



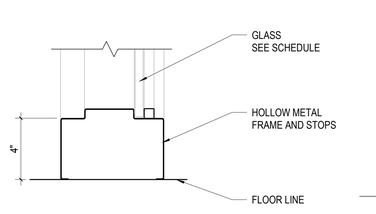
C4 JAMB DETAIL

SCALE: 3" = 1'-0"



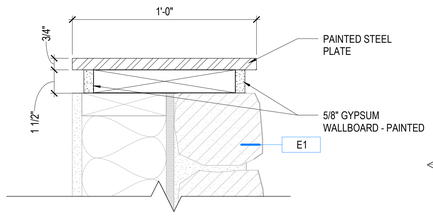
C5 EXTERIOR WALL TYPE

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



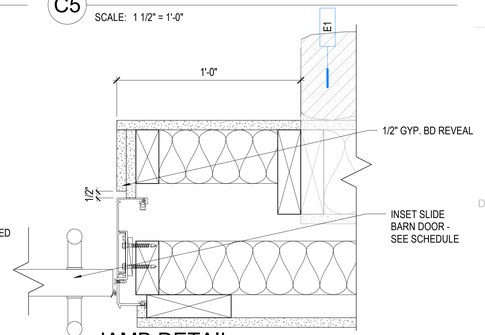
D3 JAMB DETAIL

SCALE: 3" = 1'-0"



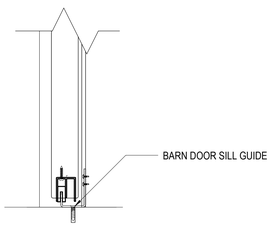
D4 JAMB DETAIL

SCALE: 3" = 1'-0"



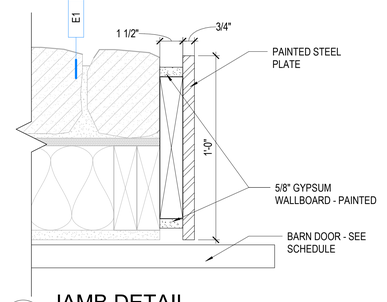
D5 JAMB DETAIL

SCALE: 3" = 1'-0"



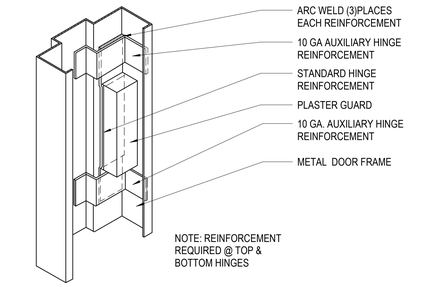
E1 SILL DETAIL

SCALE: 3" = 1'-0"



E5 JAMB DETAIL

SCALE: 3" = 1'-0"



A5 REINFORCED DOOR FRAME

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

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420 East South Temple
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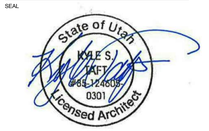
KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

23 EAST CENTER STREET
KAYSVILLE, UTAH 84037

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SEAL



MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

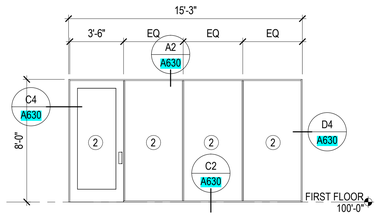
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ISSUE
CONFORMANCE SET
28 AUGUST 2019

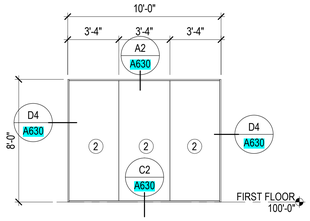
SHEET NAME
DOOR DETAILS

SHEET NUMBER
A610

C:\Users\GregB\Documents\A19_2018576_KAYSVILLE CITY MUNICIPAL BUILDING_GregB.rvt
8/15/2019 2:26:31 PM



WINDOW TYPE 21



WINDOW TYPE 20

GLAZING SCHEDULE	
1	12MM (1/2") CLEAR TEMPERED FLOAT GLASS
2	6mm CLEAR TEMPERED FLOAT GLASS
11	1" CLEAR INSULATED GLASS
12	1" CLEAR TEMPERED INSULATED GLASS
13	1" LOW-E COATED, CLEAR INSULATED GLASS
14	1" LOW-E COATED, CLEAR TEMPERED INSULATED GLASS

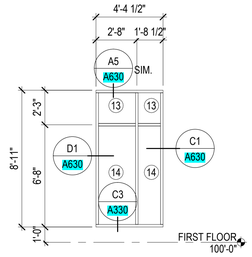
WINDOW TYPES GENERAL NOTES

Window Frames: Frames are aluminum storefront, UNO. Finish as specified.

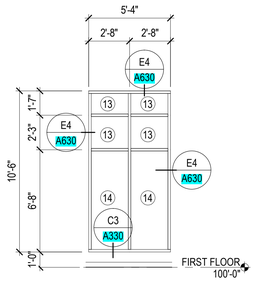
Glass Type: Provide the following glass types, UNO:
- Exterior Window/Storefront/Curtainwall Systems: 14 (1" Low-E Coated, Clear Tempered Insulated Glass)
- Interior Window Systems: 2 (6mm Clear Tempered Float Glass)

End Dams: Provide end dams at sill flashing.

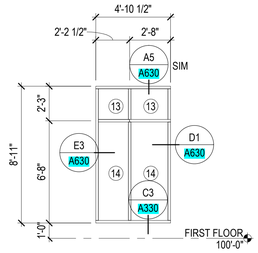
Coordination: Coordinate all trades to provide complete systems, including, but not limited to framing, glazing, sealants, flashing, brake metal and backing.



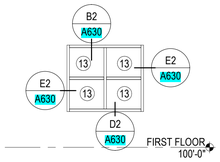
WINDOW TYPE 18



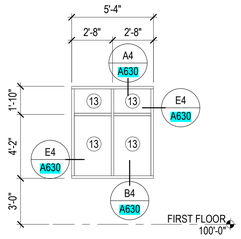
WINDOW TYPE 17



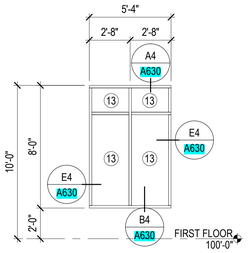
WINDOW TYPE 16



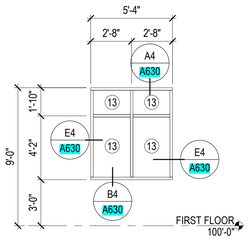
WINDOW TYPE 15



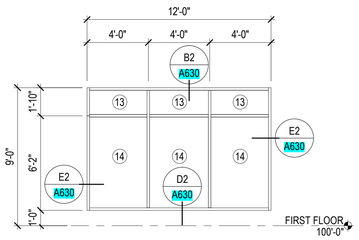
WINDOW TYPE 14



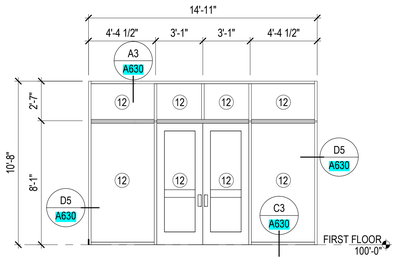
WINDOW TYPE 13



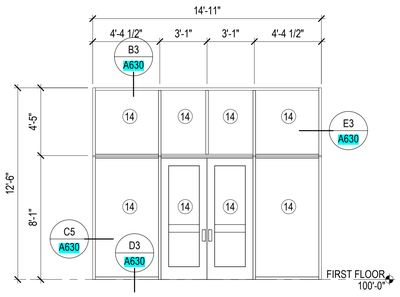
WINDOW TYPE 12



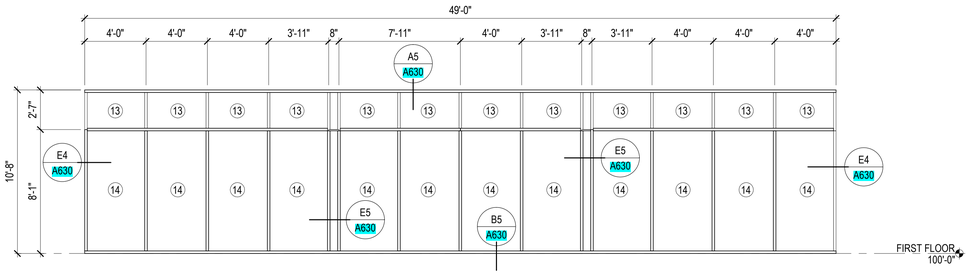
WINDOW TYPE 11



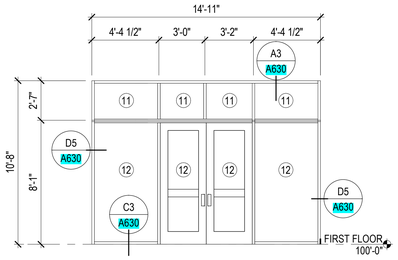
WINDOW TYPE 10



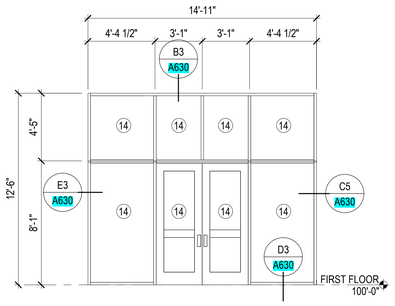
WINDOW TYPE 9



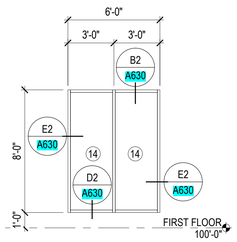
WINDOW TYPE 8



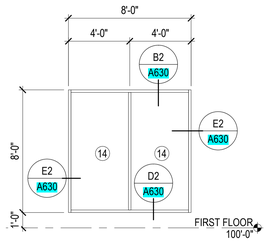
WINDOW TYPE 7



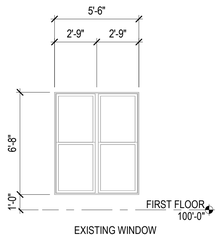
WINDOW TYPE 6



WINDOW TYPE 5

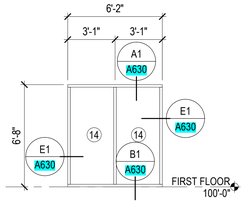


WINDOW TYPE 4

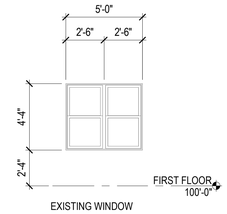


EXISTING WINDOW

WINDOW TYPE 3



WINDOW TYPE 2



EXISTING WINDOW

WINDOW TYPE 1

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SEAL



MHTN PROJECT NO: PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD. USE REFLECT LAST REVISION DATE.

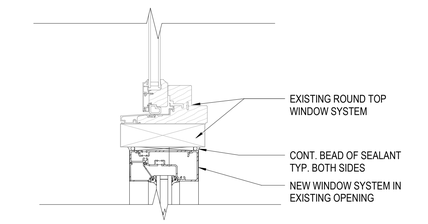
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ISSUE
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28 AUGUST 2019

SHEET NAME
WINDOW TYPES

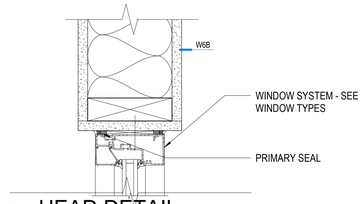
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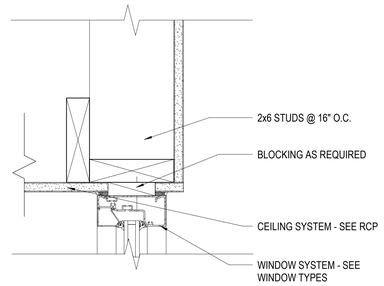
A1 HEAD DETAIL

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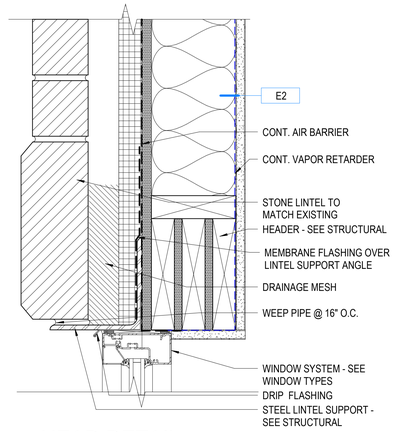
A2 HEAD DETAIL

SCALE: 3" = 1'-0"



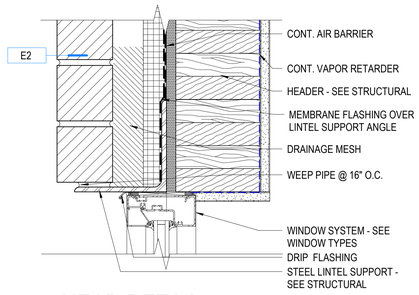
A3 HEAD DETAIL

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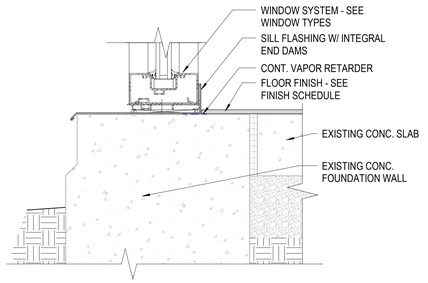
A4 HEAD DETAIL

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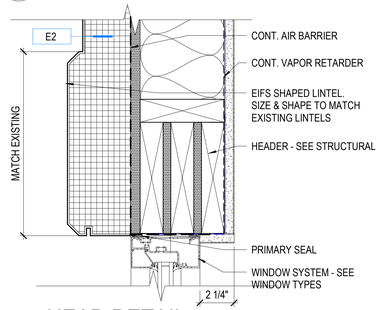
A5 HEAD DETAIL

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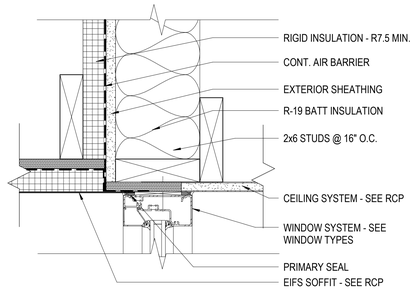
B1 SILL DETAIL

SCALE: 3" = 1'-0"



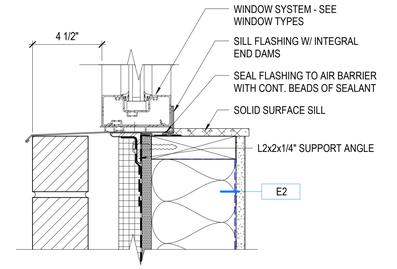
B2 HEAD DETAIL

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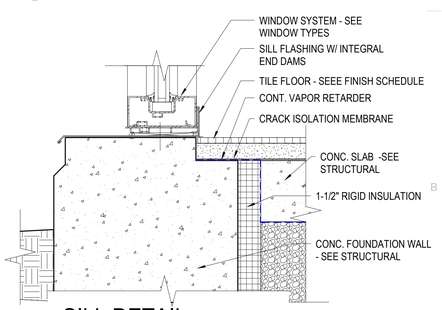
B3 HEAD DETAIL

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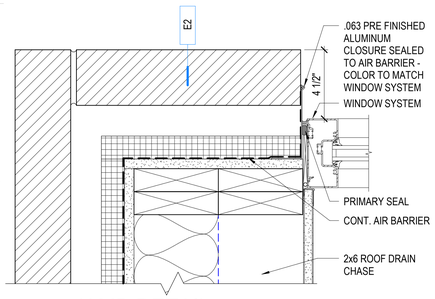
B4 SILL DETAIL

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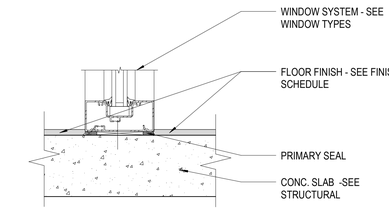
B5 SILL DETAIL

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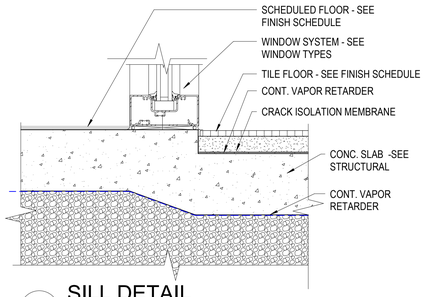
C1 JAMB DETAIL

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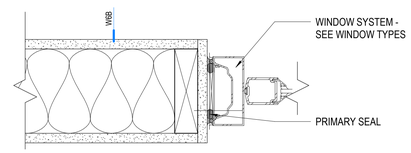
C2 SILL DETAIL

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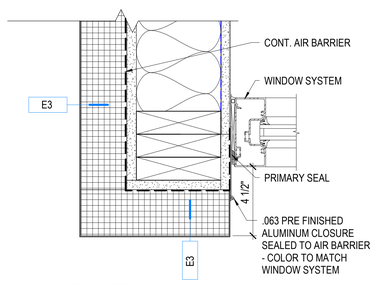
C3 SILL DETAIL

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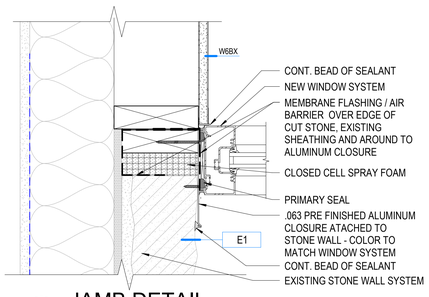
C4 JAMB DETAIL

SCALE: 3" = 1'-0"



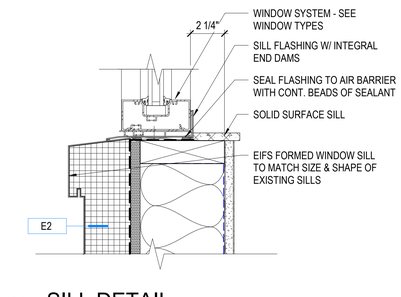
C5 JAMB DETAIL

SCALE: 3" = 1'-0"



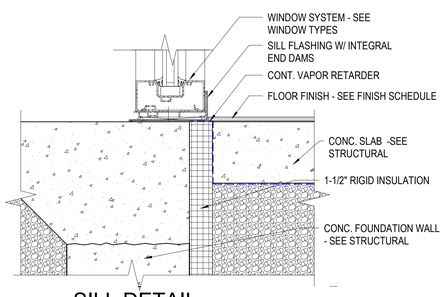
D1 JAMB DETAIL

SCALE: 3" = 1'-0"



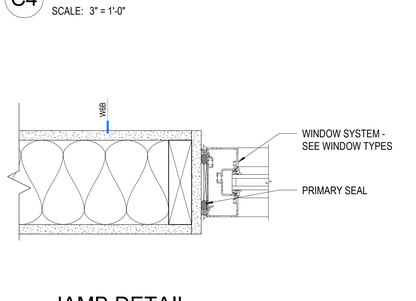
D2 SILL DETAIL

SCALE: 3" = 1'-0"



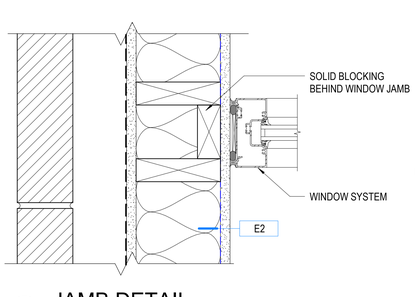
D3 SILL DETAIL

SCALE: 3" = 1'-0"



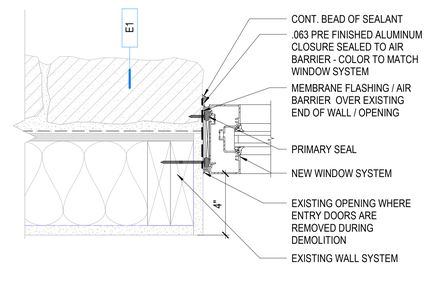
D4 JAMB DETAIL

SCALE: 3" = 1'-0"



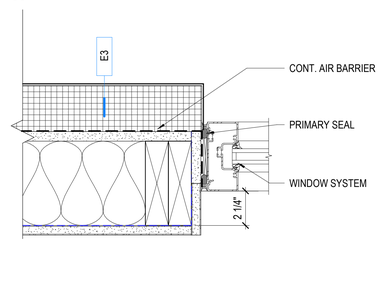
D5 JAMB DETAIL

SCALE: 3" = 1'-0"



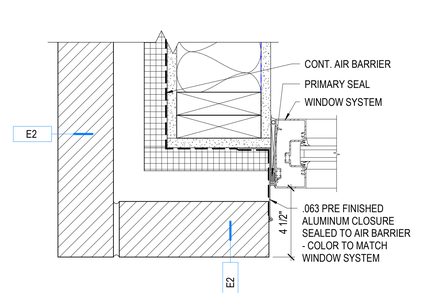
E1 JAMB DETAIL

SCALE: 3" = 1'-0"



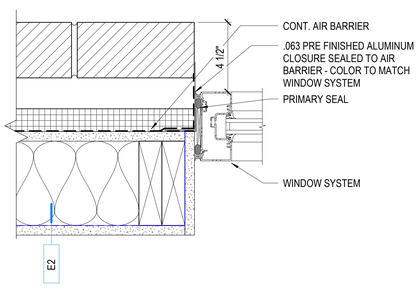
E2 JAMB DETAIL

SCALE: 3" = 1'-0"



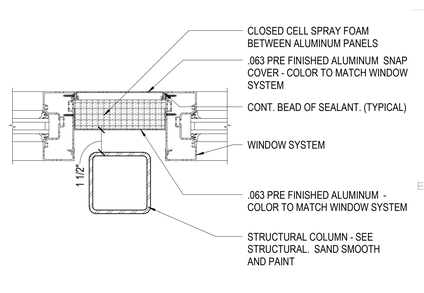
E3 JAMB DETAIL

SCALE: 3" = 1'-0"



E4 JAMB DETAIL

SCALE: 3" = 1'-0"



E5 JAMB DETAIL

SCALE: 3" = 1'-0"

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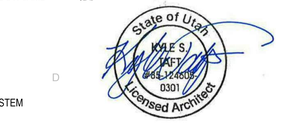
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23 EAST CENTER STREET
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ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
WINDOW DETAILS

SHEET NUMBER
A630



FIRST FLOOR FINISH PLAN

SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"

FINISH PLAN GENERAL NOTES

RE: A640 for the Finish Schedule

RE: A421 for typical floor finish transition details

RE: Structural drawings for recessed slabs.

Floor Finish Transitions at Doors: Locate floor finish material transitions that occur at doors under the center of the door, UNO.

Floor Drains: Coordinate location of floor drains with Plumbing drawings.

Corner Guards: Typical at all outside gyp corners

LEGEND - FLOOR PATTERN

- FT-1 PORCELAIN TILE
- FT-2 PORCELAIN TILE
- FT-3 PORCELAIN TILE
- SEALED CONCRETE
- CP-1 CARPET TILE
- CP-2 CARPET TILE
- CP-3 CARPET TILE
- CP-4 CARPET TILE
- LVT - LUXURY VINYL TILE
- WT-1,FT-1 TYPICAL WALL TILE
- WT-2 GLAZED CERAMIC

KEYNOTES - FLOOR PLANS

1 ALIGN WALLS SO THAT FINISH IS CONTINUOUS
2 ALIGN FINISH FACE WITH GRID LINE
3 STONE THRESHOLD
4 PROVIDE 1-1/2" RECESS FOR THICK-SET TILE FLOOR (HATCHED AREA)
5 FILL EXISTING RECESSED FLOOR AS REQUIRED FOR INSTALLATION OF NEW FLOOR FINISH
6 EXISTING EXTERIOR WINDOW TO REMAIN. APPLY TRANSLUCENT FILM. REFERENCE WINDOW TYPES
7 NEW FLAG POLE WITH INTERNAL ROPE SYSTEM

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NO.	DATE	DESCRIPTION
1	June 25, 2019	Addendum No. 1

ISSUE
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28 AUGUST 2019

SHEET NAME
FIRST FLOOR
FINISH PLAN

SHEET NUMBER
A651

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FIRST FLOOR REFLECTED CEILING PLAN

SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"

REFLECTED CEILING PLAN GENERAL NOTES

RE: A710 for typical suspended ceiling details, including seismic bracing.

Ceiling Height: 9'-0" UNO. Where floor height varies in a room, ceiling height is shown at the entry to the room, UNO.

Ceiling Grid/Panel Alignment: The design intent of the Reflected Ceiling Plans is center ceiling grids or acoustical panels between walls in both directions, or to center grids in one direction, panels in the other. If the grid does not comply with the design intent, then coordinate with Architect to adjust the ceiling layout prior to installation.

Seismic Design Category: Refer to Structural / Refer to Specifications.

Seismic Bracing: Rigid bracing required at ceilings over 1,000 SF and at all ceilings with fire sprinklers and other penetrations.

Seismic Control Joints: Provide seismic control joints in suspended acoustical ceilings greater than 2,500 SF.

Control Joints: Provide control joints in gypsum board ceilings at 30'-0" max spacing. Coordinate locations with Architect to align joints with other elements in the ceilings or on the walls.

Exposed Elements: Paint exposed structure, pipe, conduit and HVAC duct at open ceilings and at open areas around ceiling clouds. Color: As selected by Architect.

Walls to Deck: Extend all walls to deck, including all components of the wall assembly, UNO.

Fire Sprinklers: Center sprinkler heads in acoustical panels; run in straight lines in orthogonal, rectangular spaces.

Electrical, Mechanical and other Devices: Center in acoustical panels. Coordinate feature lighting layout with Architect prior to rough-in.

Keynotes: Not all keynotes apply to this sheet.

LEGEND - REFLECTED CEILING PLANS

- ACP1 - 24" X 24" ACOUSTICAL CEILING PANEL
- GB1 - PAINTED GYPSUM BOARD
- CRD - COMPOSITE ROOF DECK UNIT - VERSA-DEK S ES ACOUSTICAL AS BASIS OF DESIGN
- OTS — OPEN TO STRUCTURE
- OTSP — OPEN TO STRUCTURE - PAINTED
- MECHANICAL DIFFUSERS SEE MECHANICAL
- LIGHT FIXTURES SEE ELECTRICAL
- WOVEN ROLLER SHADE
- MANUAL METAL BLIND

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KYLE S. LAFFERTY
6617246
0301
Licensed Architect

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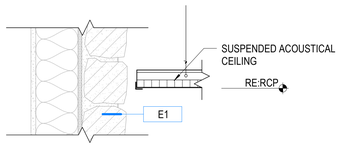
NO.	DATE	DESCRIPTION
1	June 26, 2019	Addendum No. 1

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SHEET NAME
REFLECTED CEILING PLAN

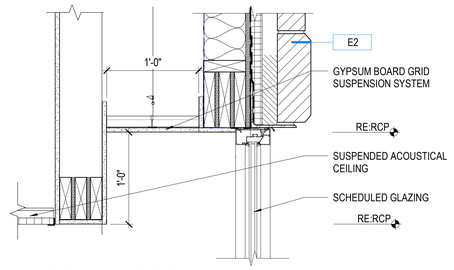
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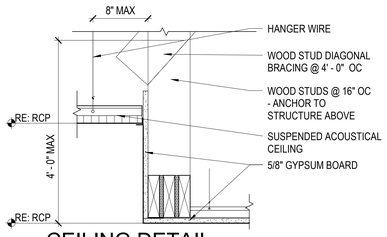
A1 CEILING DETAIL

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



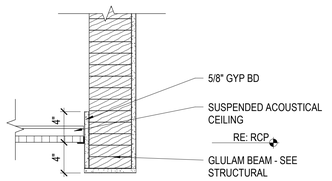
A2 CEILING DETAIL

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



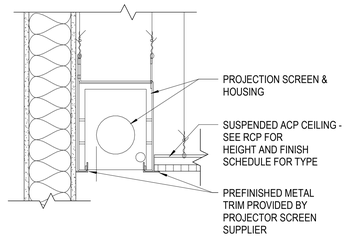
B1 CEILING DETAIL

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



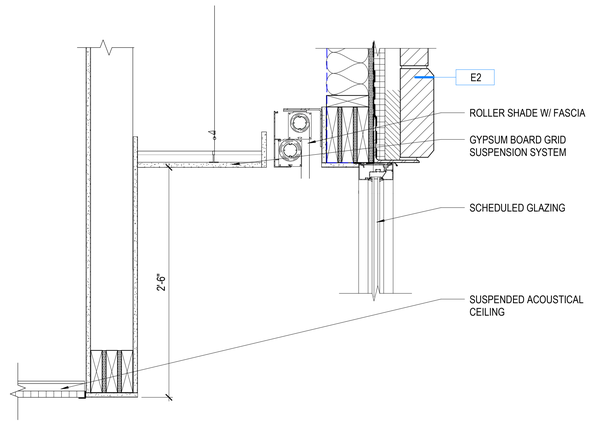
B2 CEILING DETAIL

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



B3 CEILING DETAIL

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



B4 CEILING DETAIL

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

C1 CEILING DETAIL

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

C2 CEILING DETAIL

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

C3 TYP SUSPENDED CEILING DETAIL

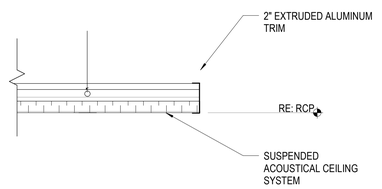
SCALE: 1/4" = 1'-0"

C4 CEILING DETAIL-UNATTACHED

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

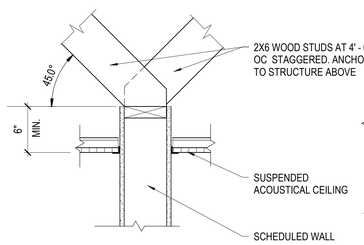
C5 CEILING DETAIL-ATTACHED

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



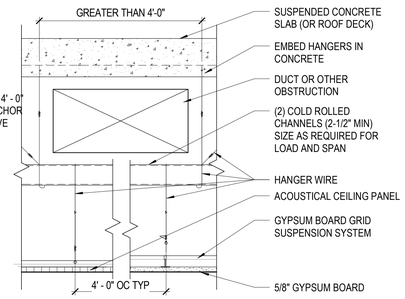
D1 ACOUSTICAL CEILING CLOUD DETAIL

SCALE: 3" = 1'-0"



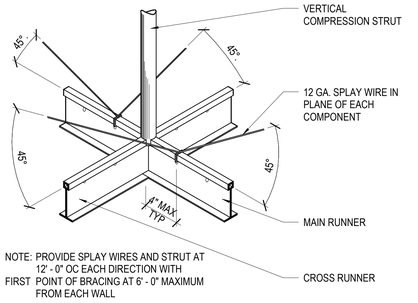
D2 CEILING DETAIL

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



D3 CEILING GRID TRANSFER DETAIL

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



NOTE: PROVIDE SPLAY WIRES AND STRUT AT 12' - 0" OC EACH DIRECTION WITH FIRST POINT OF BRACING AT 6' - 0" MAXIMUM FROM EACH WALL

D4 SEISMIC BRACING DETAIL

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

VERTICAL COMPRESSION STRUT SCHEDULE

EMT CONDUIT	MAXIMUM SPAN
1/2"	5'-10" MAX
3/4"	7'-8" MAX
1"	9'-9" MAX
METAL STUDS	
1- 5/8" X 20 GA	12'-0"
2- 1/2" X 20 GA	13'-6"
(2)" 1- 5/8" X 20 GA	15'-0"
(2)" 2- 1/3" X 20 GA	15'-0"
*BACK-TO-BACK	

E1 TYP GYP BD CEILING DETAIL

SCALE: 3" = 1'-0"

E2 CEILING DETAIL

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

E3 CEILING DETAIL

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

E4 CL-SOFFIT DETAIL

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

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2	June 28, 2019	Addendum No. 2

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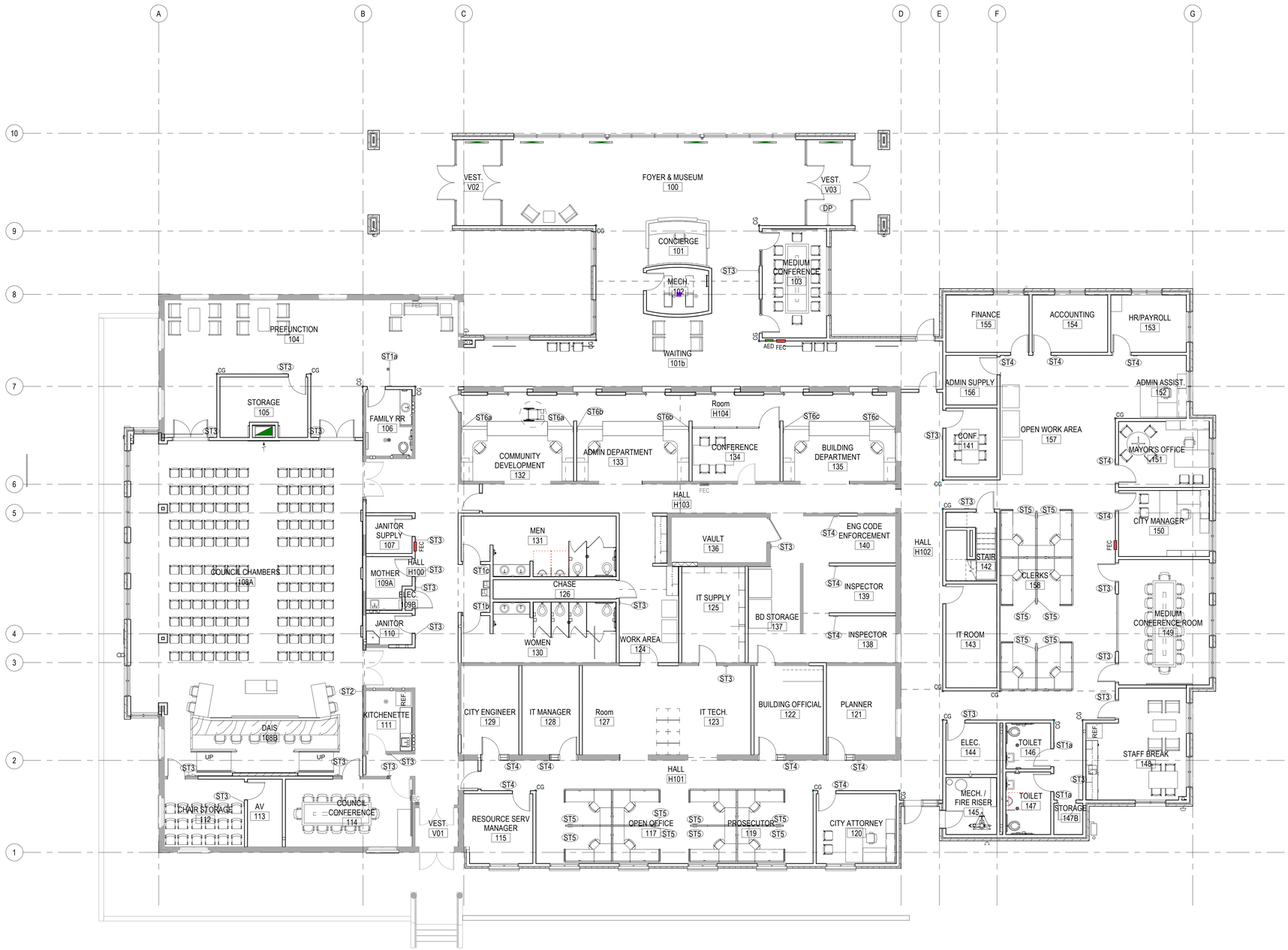
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LEGEND - SIGNAGE

- ST1a SIGNAGE TYPE 1a - SEE SHEET C3/A802
- ST1b SIGNAGE TYPE 1b - SEE SHEET C4/A802
- ST1c SIGNAGE TYPE 1c - SEE DETAIL D2/A802
- ST2 SIGNAGE TYPE 2 - SEE DETAIL D3/A802
- ST3 SIGNAGE TYPE 3 - SEE DETAIL D4/A802
- ST4 SIGNAGE TYPE 4 - SEE DETAIL D5/A802
- ST5 SIGNAGE TYPE 5 - SEE DETAIL E3/A802
- DP DEDICATION PLAQUE - SEE DETAIL B4/A802



1 FIRST FLOOR SIGNAGE PLAN

SCALE: 1/8" = 1'-0"

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SIGNAGE PLAN

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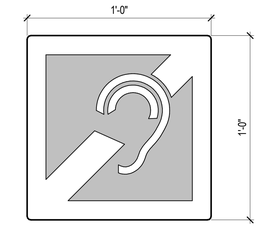
SIGNAGE SCHEDULE

PLAN ROOM #	PLAN ROOM NAME	SIGN TYPE	MOUNTING TYPE	SIGN ROOM #	SIGN ROOM NAME	COMMENTS
		3				
101b	WAITING	1				
103	MEDIUM CONFERENCE	3				
103	MEDIUM CONFERENCE	4				
105	STORAGE	3				
106	FAMILY RR	1a				
107	JANITOR SUPPLY	3				
108A	COUNCIL CHAMBERS	1				
108A	COUNCIL CHAMBERS	3				
108A	COUNCIL CHAMBERS	3				
109A	MOTHER	3				
109A	MOTHER	3				
110	JANITOR	3				
111	KITCHENETTE	3				
111	KITCHENETTE	2				
112	CHAIR STORAGE	3				
113	AV	3				
114	COUNCIL CONFERENCE	3				
114	COUNCIL CONFERENCE	3				
115	RESOURCE SERV MANAGER	4				
120	CITY ATTORNEY	4				
121	PLANNER	4				
122	BUILDING OFFICIAL	4				
125	IT SUPPLY	3				
128	IT MANAGER	4				
129	CITY ENGINEER	4				
130	WOMEN	1b				
130	WOMEN	3				
131	MEN	1c				
132	COMMUNITY DEVELOPMENT	6				PAINTED PT-4
132	COMMUNITY DEVELOPMENT	6				PAINTED PT-4
133	ADMIN DEPARTMENT	6b				PAINTED PT-6
133	ADMIN DEPARTMENT	6b				PAINTED PT-6
135	BUILDING DEPARTMENT	6				PAINTED PT-5
135	BUILDING DEPARTMENT	6				PAINTED PT-5
136	VAULT	3				
141	CONF.	3				
144	ELEC.	3				
146	TOILET	1a				
147	TOILET	1a				
147B	STORAGE	3				
148	STAFF BREAK	3				
149	MEDIUM CONFERENCE ROOM	3				
149	MEDIUM CONFERENCE ROOM	3				
150	CITY MANAGER	4				
151	MAYOR'S OFFICE	4				
153	HR/PAYROLL	4				
154	ACCOUNTING	4				
155	FINANCE	4				
156	ADMIN SUPPLY	1				
H100	HALL	1				
H103	HALL	4				
H103	HALL	4				
H103	HALL	4				
H104	Room	1				

NOTE: SIGNAGE TYPE 5 NOT LISTED IN SCHEDULE, SEE PLAN FOR LOCATIONS

SIGNAGE GENERAL NOTES

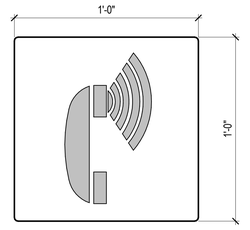
Mounting Heights: Comply with ADA Standards and ANSI A117.1 for mounting heights and clearances at signs.



NOTE: ASSISTIVE LISTENING DEVICE IDENTIFICATION - 1/4" ETCHED MAGNESIUM ALLOY WITH RAISED SYMBOL, PAINTED WITH MATTE PAINT.

4 ASSISTIVE LISTENING SIGNAGE

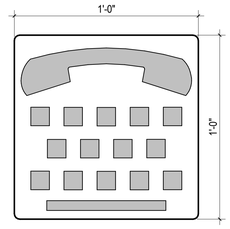
SCALE: 3" = 1'-0"



NOTE: ASSISTIVE LISTENING DEVICE IDENTIFICATION -1/4" ETCHED MAGNESIUM ALLOY WITH RAISED SYMBOL, PAINTED WITH MATTE PAINT

3 VOLUME CONTROL TELEPHONE

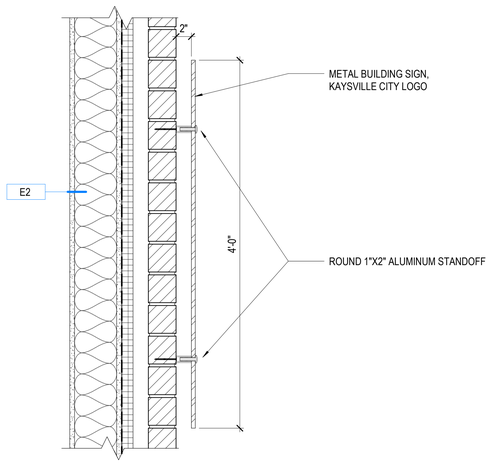
SCALE: 3" = 1'-0"



NOTE: INTERNATIONAL TTY SYMBOL AT ALL TEXT TELEPHONES

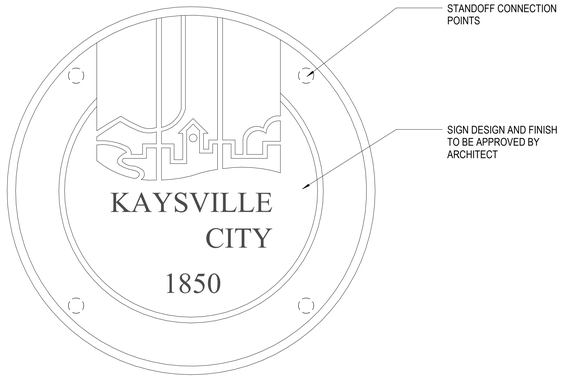
5 TEXT TELEPHONE (TTY)

SCALE: 3" = 1'-0"



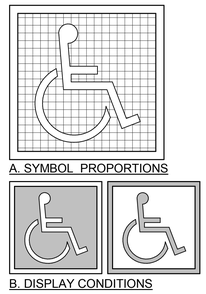
E1 LOGO SIGN STANDOFF DETAIL

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



E2 EXTERIOR KAYVILLE LOGO SIGN DETAIL

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



A. SYMBOL PROPORTIONS

B. DISPLAY CONDITIONS

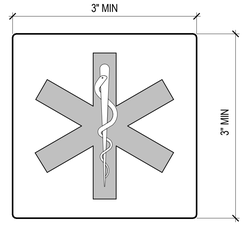
NOTE:

SYMBOL SIZE SHALL BE AS SCHEDULED IN SIGN LAYOUT DIAGRAMS. STROKE WIDTH TO HEIGHT RATIO SHALL BE BETWEEN 1:5 & 1:10.

SIGN LETTERS/ NUMBERS WIDTH TO HEIGHT RATIO SHALL BE BETWEEN 1:5 & 1:10.

2 INTERNATIONAL ACCESSIBILITY

SCALE: 1 : 1



1 EMERGENCY MEDICAL SERVICES

SCALE: 3" = 1'-0"

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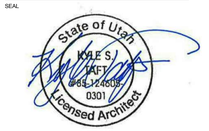
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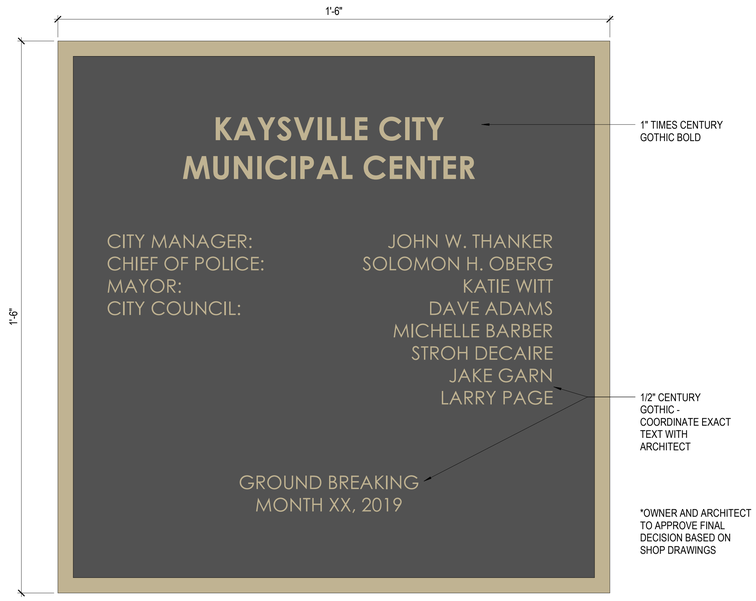
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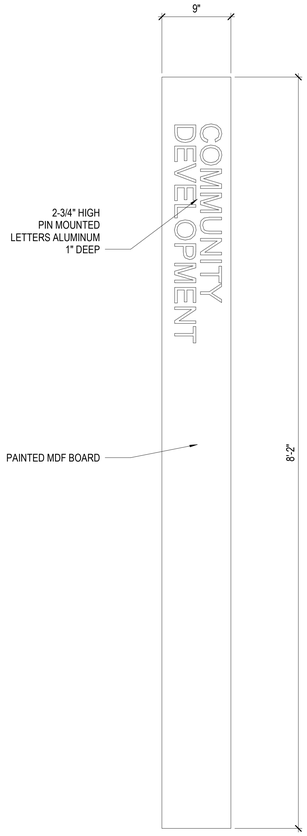
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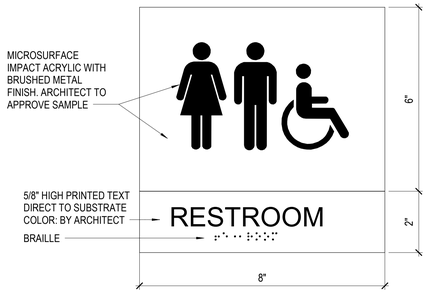
B4 DEDICATION PLAQUE

SCALE: 6" = 1'-0"



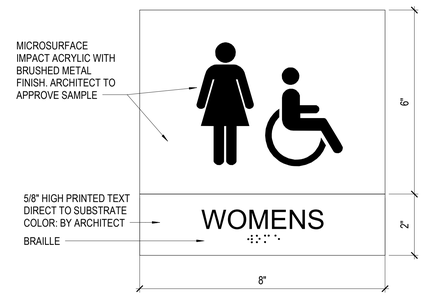
E2 SIGNAGE TYPE 6

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



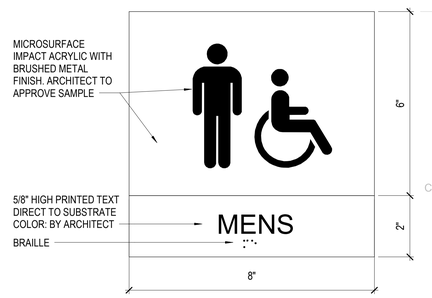
C3 SIGNAGE TYPE 1a

SCALE: 6" = 1'-0"



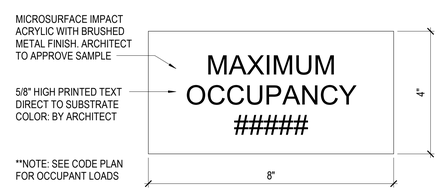
C4 SIGNAGE TYPE 1b

SCALE: 6" = 1'-0"



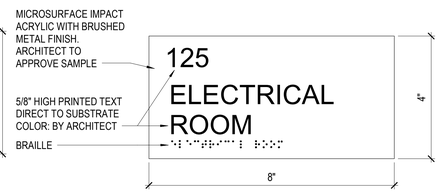
C5 SIGNAGE TYPE 1c

SCALE: 6" = 1'-0"



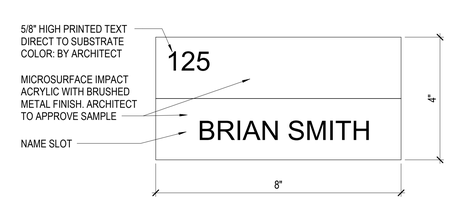
D3 SIGNAGE TYPE 2

SCALE: 6" = 1'-0"



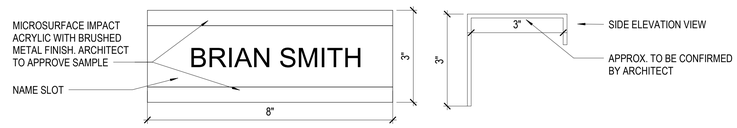
D4 SIGNAGE TYPE 3

SCALE: 6" = 1'-0"



D5 SIGNAGE TYPE 4

SCALE: 6" = 1'-0"



E3 SIGNAGE TYPE 5

SCALE: 6" = 1'-0"

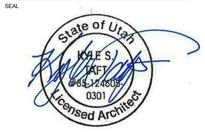
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LEGEND OF MECHANICAL SYMBOLS AND ABBREVIATIONS

DUCTWORK/GRILLES

- POSITIVE PRESSURE DUCT - RISE
- POSITIVE PRESSURE DUCT - DROP
- NEGATIVE PRESSURE DUCT - RISE
- NEGATIVE PRESSURE DUCT - DROP
- ROUND DUCT - RISE
- ROUND DUCT - DROP
- UNDER FLOOR DUCT
- TURNING VANES
- FRESH AIR LOUVER
- RELIEF AIR OR EXHAUST AIR LOUVER
- 12X12 200 — CEILING SUPPLY DIFFUSER
- 22X22 200 — CEILING RETURN REGISTER
- 12X12 200 — CEILING EXHAUST REGISTER, (BALANCE TO MATCH SUPPLY IF RETURN CFM IS NOT SHOWN)
- 24X10 200 — SIDEWALL SUPPLY REGISTER
- 24X10 200 — SIDEWALL EXHAUST OR RETURN REGISTER
- 12X12 200 — CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT
- 12X12 200 — CEILING AIR GRILLE WITH FLEXIBLE DUCT

TOP FIGURES INDICATE NECK SIZE. BOTTOM FIGURE INDICATES CFM.

- CEILING RETURN AIR GRILE W/ SOUND BOOT
- 3-1" SLOTS @ 48" 400 — LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT CONNECTION. NO. OF SLOTS & SIZE OF SLOT ON TOP. ACTIVE LENGTH AND CFM ON BOTTOM
- FLEXIBLE DUCT CONNECTION
- FLEXIBLE DUCT
- 12/8 FO — FLAT OVAL DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- 12/8 — RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- 12ø — ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
- UP — INCLINED RISE
- DN — INCLINED DROP

WITH RESPECT TO AIR FLOW 15° NOMINAL INCLINE WITH RADIUS TURNS=DEPTH OF DUCT.

- W R — R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR
- 12/12 8/8 — RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND DUCT TRANSFORMATION MAXIMUM 15° INCLUDED ANGLE EXCEPT WHERE SHOWN OTHERWISE.
- 12/12 12ø — RECTANGULAR TO ROUND DUCT TRANSFORMATION
- R 6 — BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.
- 1.5D 1.25D 45° D D — TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
- 12ø 12/12 — HIGH EFFICIENCY FITTING
- MANUAL VOLUME DAMPER
- FD — FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQD.
- FSD — COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL
- SD — SMOKE DAMPER W/ ACCESS PANEL
- BDD — BACK DRAFT DAMPER
- ATC OR — ATC DAMPER
- AD — ACCESS PANEL IN DUCT OR PLENUM
- HEATING OR COOLING COIL IN DUCT
- SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME. MIN. 1-1/2 TERMINAL INLET SIZE STRAIGHT DUCT AT TERMINAL INLET.
- 4-WAY BLOW PATTERN
- 3-WAY BLOW PATTERN
- 2-WAY BLOW PATTERN
- 2-WAY BLOW PATTERN
- 1-WAY BLOW PATTERN
- SD — DUCT SMOKE DETECTOR

PIPING

- OR — SHUT OFF VALVE
- OR — BALL VALVE
- OR — BUTTERFLY VALVE
- MOTOR OPERATED BUTTERFLY VALVE
- OR — GATE VALVE
- GATE VALVE - NON RISING STEM
- OR — ANGLE VALVE
- OR — GLOBE VALVE
- OR — PLUG VALVE
- SHUT OFF PLUG VALVE FOR FOR USE WITH PRESSURE GAUGE
- OR — CHECK VALVE
- OR — LATERAL STRAINER WITH BLOW-OFF VALVE, PROVIDE HOSE END WITH CAP WHERE DISCHARGE IS NOT PIPED TO DRAIN
- F&T — F&T=FLOAT & THERMOSTATIC
- RPBP — REDUCED PRESSURE BACKFLOW PREVENTOR W/ DRAIN PAN
- OR — PRESSURE REDUCING VALVE EXTERNAL PRESSURE
- OR — PRESSURE REDUCING VALVE SELF CONTAINED
- OR — ATC - 2 WAY VALVE
- OR — ATC - 3 WAY VALVE
- S — SOLENOID VALVE
- 0.0 GPM OR — CALIBRATED BALANCING VALVE WITH GPM INDICATED
- VENTURI FLOW METER
- GPM LB/HR. — FLOW METER ORIFICE
- OR — RELIEF VALVE
- AIR VENT-MANUAL
- A — AIR VENT-AUTO
- FLOW SWITCH
- P S — PRESSURE SWITCH
- OR — TEMPERATURE AND PRESSURE TEST PORT
- THERMOMETER WELL
- THERMOMETER - TEMP RANGE AS INDICATED
- PRESSURE GAUGE WITH SHUT OFF PLUG VALVE
- PRESSURE GAUGE WITH PIGTAIL
- OR — UNION
- OR — FLANGE
- OR — FLEXIBLE EXPANSION JOINT
- REDUCER
- ECCENTRIC REDUCER
- BRANCH - BOTTOM CONNECTION
- BRANCH - TOP CONNECTION
- BRANCH - SIDE CONNECTION
- RISE OR DROP
- RISER - DOWN (ELBOW)
- RISER - UP (ELBOW)
- PIPE CAP
- ARROW INDICATES DIRECTION OF FLOW IN PIPE
- DN — LEADER INDICATES DOWNWORD SLOPE
- VALVE IN RISE
- OR — 90° ELBOW
- 45° ELBOW
- ALIGNMENT GUIDE
- ANCHOR

PLUMBING

- THERMOSTATIC MIXING VALVE
- HOSE BIBB
- FLOOR SINK
- FLOOR DRAIN
- FCO COTG — FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
- ROOF DRAIN
- DOWNSPOUT NOZZLE
- VTR — VENT THRU ROOF
- WATER HAMMER ARRESTOR
- CLEAN-OUT
- FILL PORT
- DRAIN PAN AND P-TRAP
- (NAME) — FIXTURE FROM LEVEL ABOVE
- DEMOLITION

EQUIPMENT

- UNIT HEATER
- INLINE PUMP
- INLINE PUMP
- FAN

FIRE

- HOSE VALVE
- NRS GATE VALVE WITH SUPERVISION
- FLOW SWITCH
- FIRE RISER
- SPRINKLER HEAD
- F — FIRE SPRINKLER WATER

ANNOTATIONS

- P-1 — PLUMBING FIXTURE
- POINT OF CONNECTION
- A / M-101 — SECTION TAG: TOP FIGURE: SECTION NUMBER. BOTTOM FIGURE: SHEET NUMBER
- A / M101 — DETAIL TAG: TOP FIGURE: DETAIL NUMBER. BOTTOM FIGURE: SHEET NUMBER
- EF / 1 — EQUIPMENT IDENTIFICATION: TOP FIGURE: EQUIPMENT TYPE. BOTTOM FIGURE: UNIT NUMBER
- XX-XX / X — EQUIPMENT IDENTIFICATION: TOP FIGURE: EQUIPMENT TYPE AND NUMBER. BOTTOM FIGURE: UNIT SIZE
- OUTSIDE AIR (CFM) — (X)
- 1 — KEYED NOTE IDENTIFICATION
- S — SWITCH
- S — SENSOR
- T — THERMOSTAT
- T N — NIGHT THERMOSTAT

LINETYPES

- DOMESTIC COLD WATER (DCW)
- DOMESTIC HOT WATER (DHW)
- DOMESTIC HOT WATER RETURN (DHWR)
- E(NAME) — EXISTING PIPING
- (NAME) — EXISTING PIPING TO BE REMOVED
- CD — CONDENSATE
- RD — ROOF DRAIN
- RDO — ROOF DRAIN OVERFLOW
- WASTE (BELOW GRADE)
- W — WASTE (ABOVE GRADE)
- VENT (SEWER)
- G — GAS PIPING

ABBREVIATIONS

COMBUSTION AIR	CA
EXHAUST AIR	EA
OUTSIDE AIR	OA
RETURN AIR	RA
SUPPLY AIR	SA
NORMALLY OPEN	NO
NORMALLY CLOSED	NC

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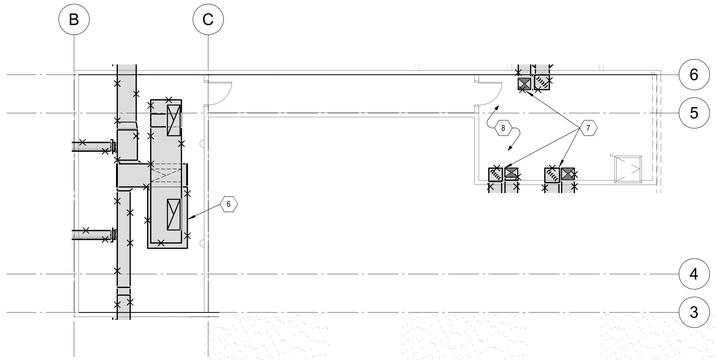
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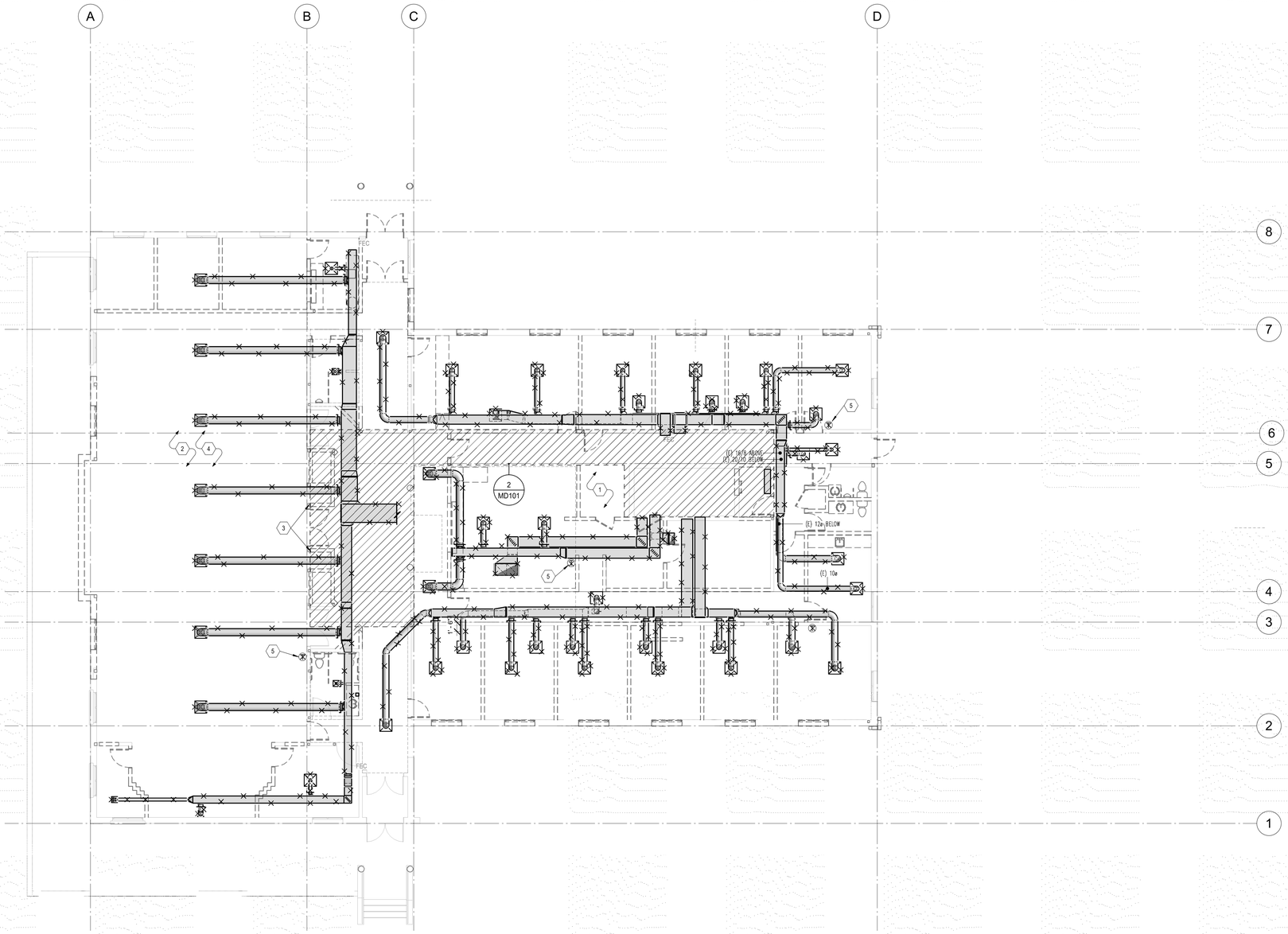
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2 MEZZANINE FLOOR MECHANICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

N

0 4' - 0" 8' - 0" 16' - 0"



1 FIRST FLOOR MECHANCAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

N

0 4' - 0" 8' - 0" 16' - 0"

KEYED NOTES

1. REMOVE ALL ABOVE CEILING AIR DISTRIBUTION SUPPLY AND RETURN DUCTWORK BACK TO MECHANICAL EQUIPMENT IN MEZZANINE.
2. ABANDON IN PLACE EXISTING UNDER FLOOR DUCTS.
3. REMOVE SHEET METAL DUCT DROPS FROM FLOOR TRANSITION TO MECHANICAL MEZZANINE, PATCH FLOOR OPENINGS WITH CEMENT.
4. REMOVE EXISTING FLOOR GRILLES, PATCH FLOOR OPENINGS WITH CEMENT.
5. REMOVE EXISTING THERMOSTATS AND ASSOCIATED CONTROL WIRING/CONDUIT.
6. REMOVE EXISTING AIR HANDLER AND ASSOICATED SHEET METAL SUPPLY AND RETURN DUCTS, OUTSIDE AIR DUCT, AND RELIEF DUCT.
7. REMOVE EXISTING FURNACE AND ASSOCIATED SUPPLY, RETURN, OUTSIDE AIR DUCTS, AND GAS VENT.
8. REMOVE EXISTING COMBUSTION AIR DUCTS.

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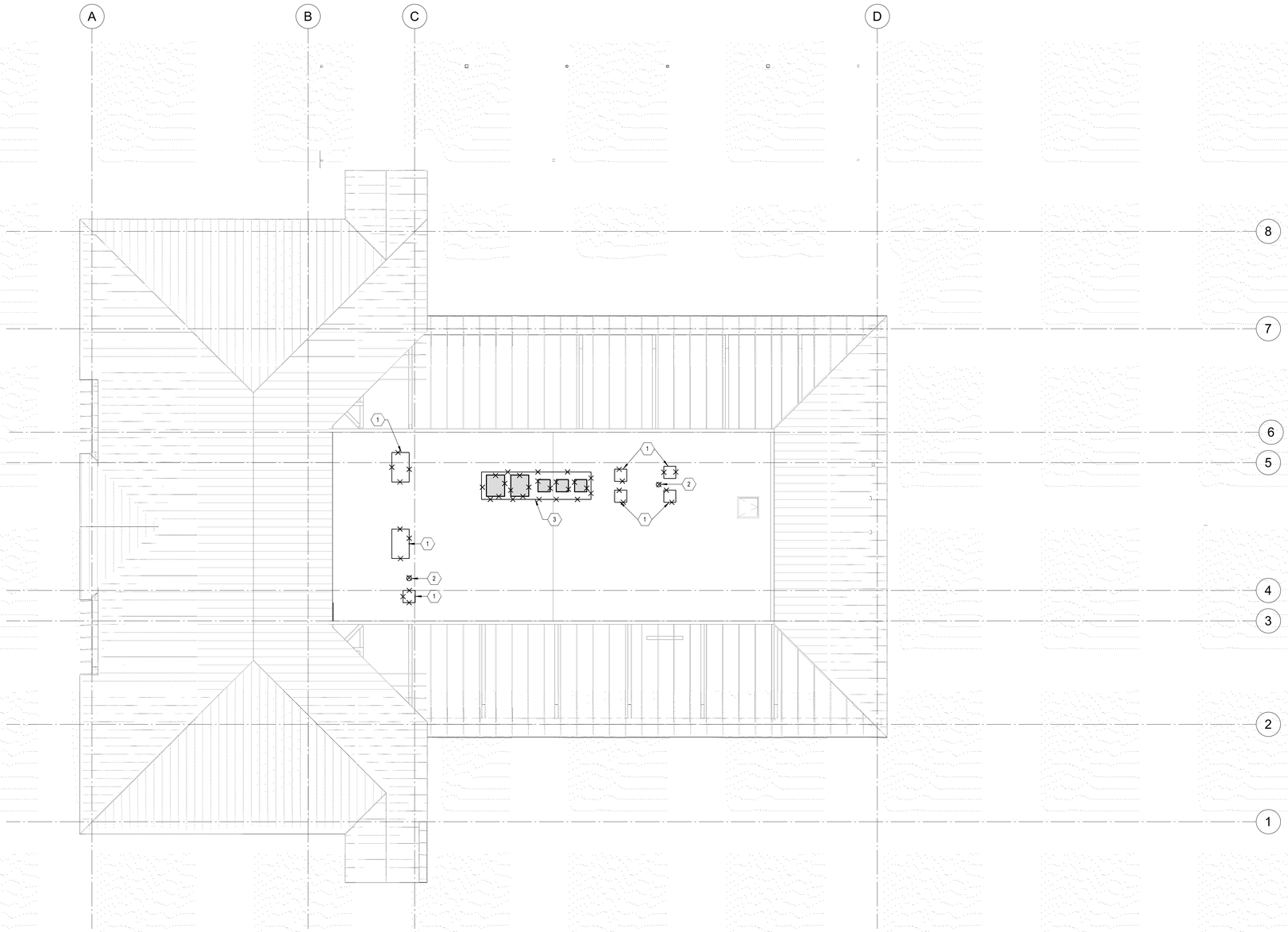
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FIRST FLOOR & MEZZANINE MECH. DEMOLITION PLAN

SHEET NUMBER
MD101

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KEYED NOTES

1. REMOVE EXISTING ROOF HOOD. PROVIDE TEMPORARY WEATHER CAP DURING CONSTRUCTION.
2. REMOVE EXISTING GAS FLUE. PATCH OPENING. COORDINATE WITH ARCHITECTURAL AND STRUCTURAL.
3. REMOVE EXISTING CONDENSING UNITS, INCLUSIVE OF REFRIGERANT PIPING AND WIRING. REMOVE EXISTING ROOF CURB. REFER TO MECHANICAL ROOF PLAN FOR NEW WORK AND PATCHING FOR THIS AREA. COORDINATE ROOF DEMOLITION WITH ARCHITECTURAL AND STRUCTURAL.



1 MECHANICAL ROOF DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"

N

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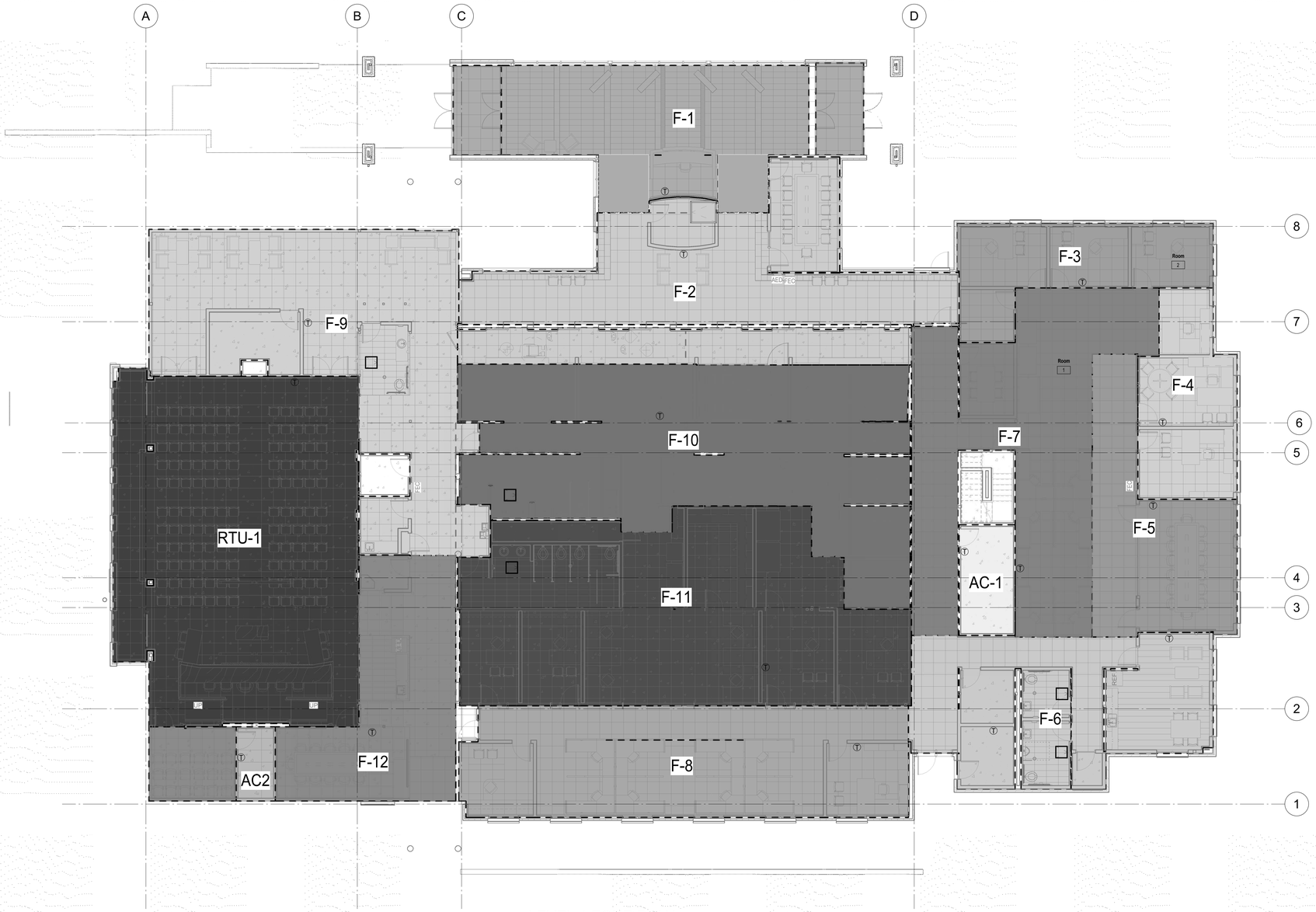
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ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
ROOF MECHANICAL DEMOLITION PLAN

SHEET NUMBER
MD102

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8/21/2019 3:55:09 PM



1 LEVEL 1 ZONE PLAN
SCALE: 1/8" = 1'-0"

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ADDITION & RENOVATION
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MHTN PROJECT NO. 2018576

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REVISIONS
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NO	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
MAIN LEVEL MECHANICAL ZONE PLAN

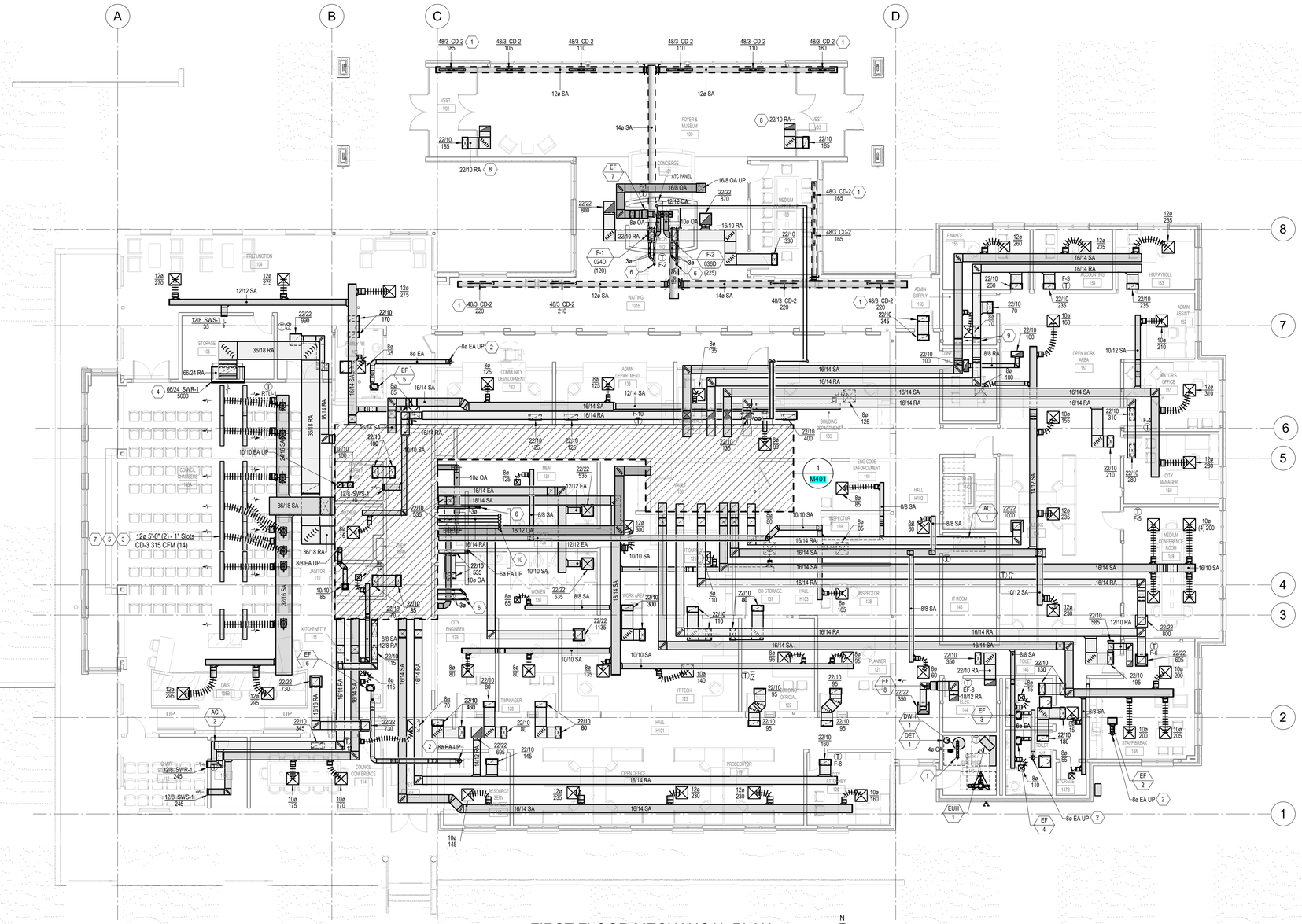
SHEET NUMBER
MZ101

KEYED NOTES

1. DEFLECT AIR TOWARDS WINDOW OR EXTERIOR WALL. TYPICAL.
2. TERMINATE EXHAUST DUCT ABOVE ROOF WITH FACTORY PROVIDED ROOF CAP.
3. COORDINATE SLOT DIFFUSER LOCATION WITH CEILING STRUCTURE.
4. LOW SIDE WALL RETURN. COORDINATE EXACT LOCATION WITH ARCHITECTURAL DRAWINGS.
5. DIRECT ALL AIR FLOW FROM SLOTS TO DIRECTION SHOWN ON DRAWINGS. TYPICAL.
6. COMBUSTION AIR AND FLUE UP THROUGH ROOF WITH CONCENTRIC VENT KIT.
7. COORDINATE SLOT DIFFUSER PLENUM HEIGHT WITH STRUCTURE.
8. DUCT WORK TO BE INSTALLED HIGH AS POSSIBLE.
9. COORDINATE DUCT ROUTING WITH STRUCTURAL OPENINGS.
10. REFRIGERANT PIPE ROOF PENETRATION. REFER TO DETAIL. REFRIGERANT PIPING SHOWN SCHEMATICALLY. COORDINATE PIPING ROUTING WITH STRUCTURE AND ARCHITECTURAL PLANS.

GENERAL SHEET NOTES

1. COORDINATE FINAL LOCATIONS OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN.
2. MAINTAIN MINIMUM 6'-0" CLEAR ABOVE ELECTRICAL EQUIPMENT.



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NO.	DATE	DESCRIPTION
1	06/24/19	ADDENDUM 1

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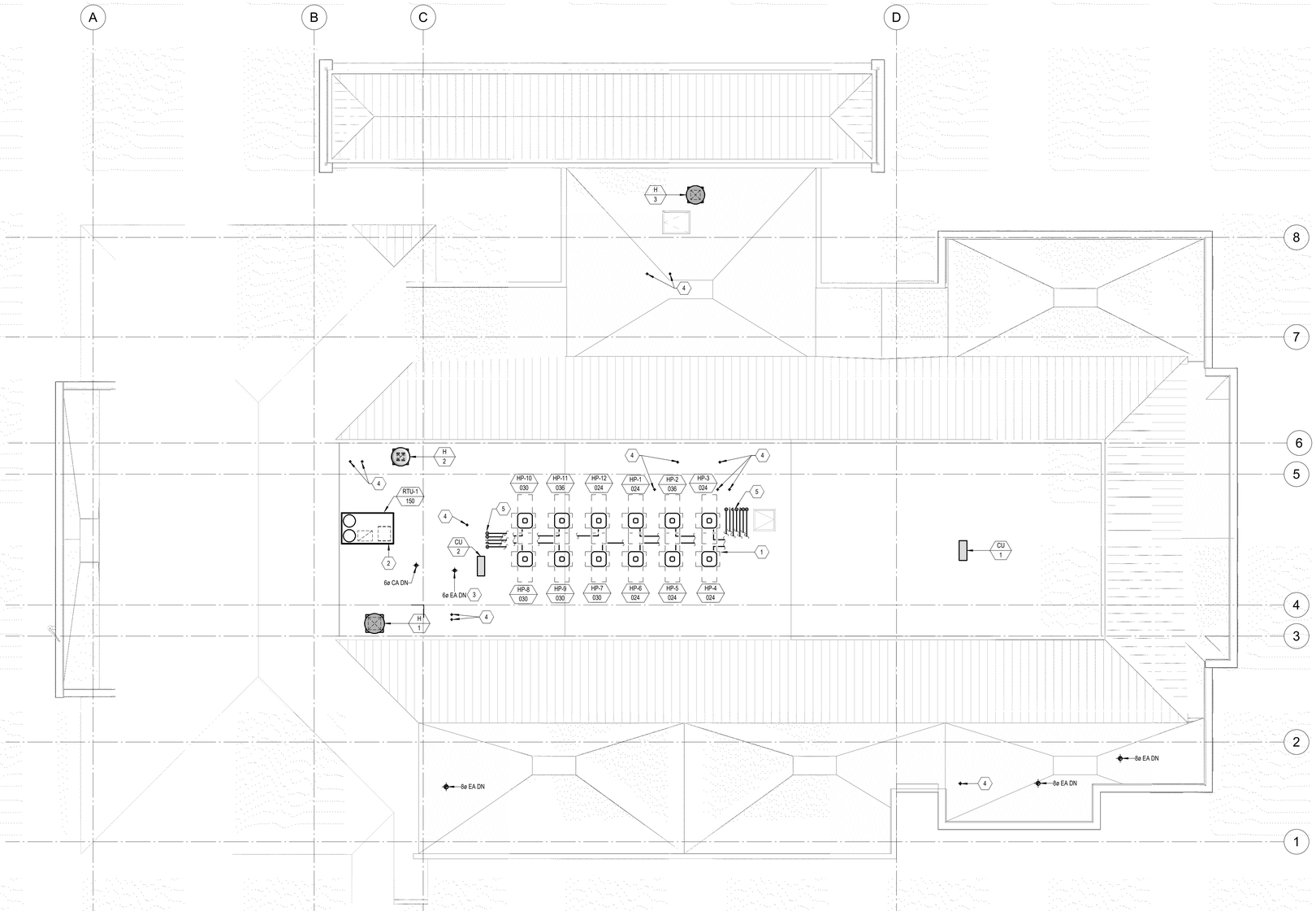
SHEET NAME
FIRST FLOOR MECHANICAL PLANS

SHEET NUMBER
M101

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KEYED NOTES

1. COORDINATE ROOFING WITH NEW EQUIPMENT CURB. REFER TO MECHANICAL DETAIL.
2. COORDINATE SUPPLY AND RETURN DUCTS FROM ROOF TOP UNIT WITH STRUCTURAL.
3. TERMINATE FLUE 24" ABOVE ROOF WITH FLUE CAP.
4. CONCENTRIC VENT KIT THROUGHT ROOF AT THIS APPROXIMATE LOCATION.
5. REFRIGERANT PIPE ROOF PENETRATION. REFER TO DETAIL. REFRIGERANT PIPING SHOWN SCHEMATICALLY. COORDINATE REFRIGERANT PIPE ROUTING WITH STRUCTURAL AND ARCHITECTURAL PLANS.



1 MECHANICAL ROOF PLAN
SCALE: 1/8" = 1'-0"

0 4' - 0" 8' - 0" 16' - 0"

N

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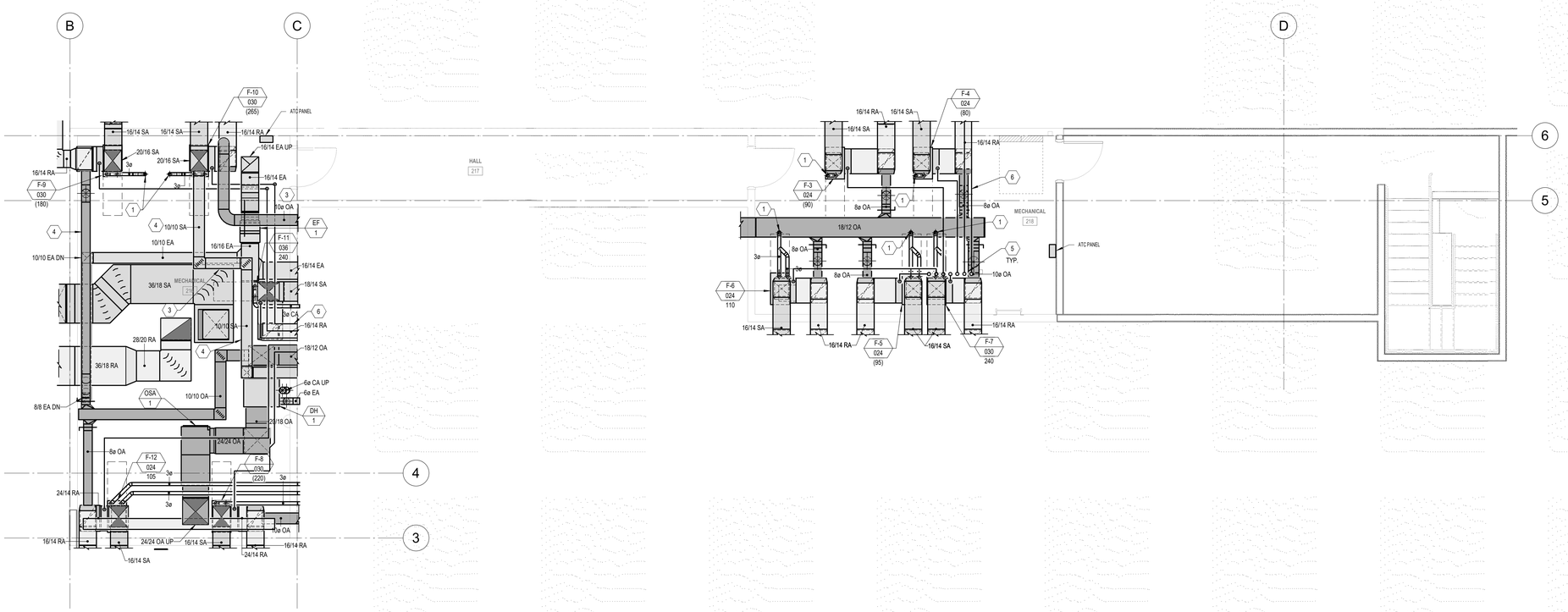
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1	09/24/19	ADDENDUM 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
ROOF MECHANICAL PLAN

SHEET NUMBER
M102

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KEYED NOTES

1. ROUTE COMBUSTION AIR AND FLUE UP THROUGH ROOF WITH CONCENTRIC VENT KIT.
2. KEEP DUCT AS TIGHT TO STRUCTURE AS POSSIBLE.
3. ROUTE DUCT THROUGHT WEBBING OF STRUCTURE. COORDINATE WITH STRUCTURAL.
4. ROUTE DUCT IN SPACE BETWEEN JOISTS.
5. REFRIGERANT PIPE ROOF PENETRATION. SEE DETAIL.
6. REFRIGERANT PIPING SHOWN SCHEMATICALLY. COORDINATE PIPING ROUTING WITH STRUCTURE AND ARCHITECTURAL PLANS. TYPICAL

1 ENLARGED MEZZANINE FLOOR MECHANICAL PLAN

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

0 2' - 0" 4' - 0" 8' - 0"

N

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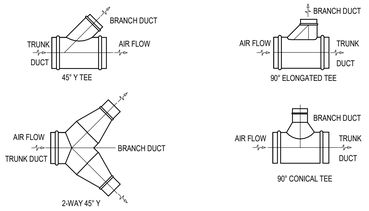
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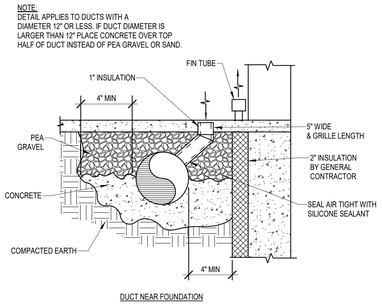
SHEET NAME
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SHEET NUMBER
M401

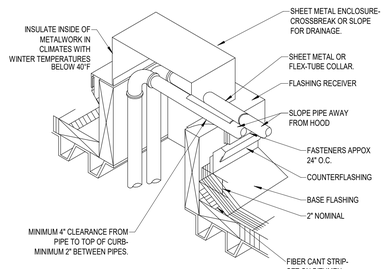
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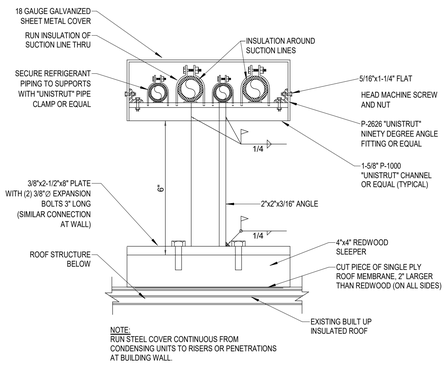
9 ROUND DUCT BRANCH TAKE-OFF DETAILS
NOT TO SCALE



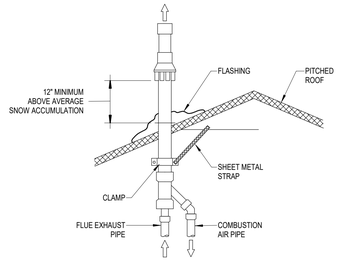
10 UNDERFLOOR DUCT DETAILS
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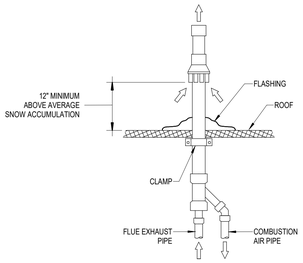
11 CONDUIT AND PIPING THROUGH ROOF DECK DETAIL
NOT TO SCALE



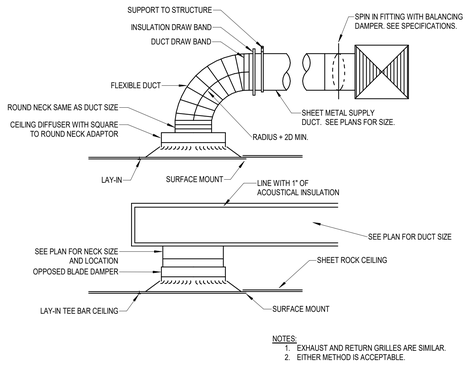
12 REFRIGERANT PIPE SUPPORT ON ROOF DETAIL
NOT TO SCALE



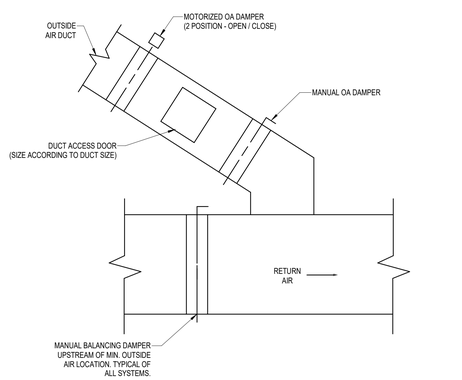
5 CONCENTRIC INSTALLATION DETAIL (SLOPED ROOF)
NOT TO SCALE



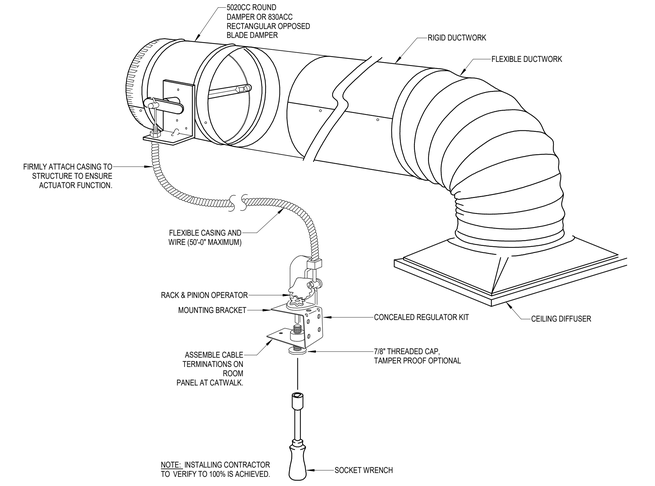
6 CONCENTRIC INSTALLATION DETAIL (FLAT ROOF)
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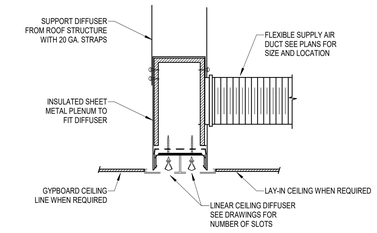
7 SUPPLY DIFFUSER WITH FLEX DUCT DETAIL
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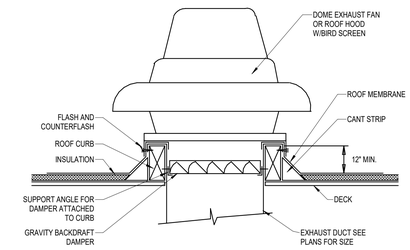
8 OUTSIDE AIR CONNECTION DETAIL
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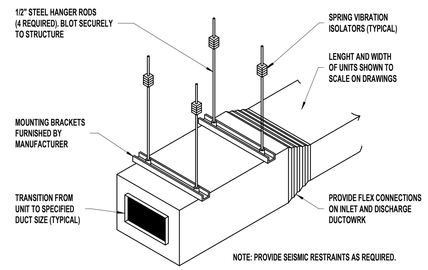
1 BOWDEN CABLE CONTROL SYSTEM
NOT TO SCALE



2 SLOT DIFFUSER & PLENUM DETAIL
NOT TO SCALE



3 EXHAUST FAN DETAIL
NOT TO SCALE



4 INLINE EXHAUST FAN DETAIL
NOT TO SCALE

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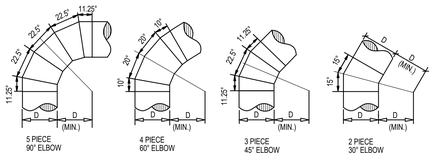
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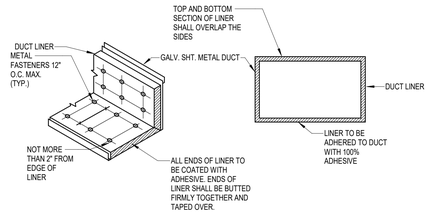
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MECHANICAL DETAILS

SHEET NUMBER
M501

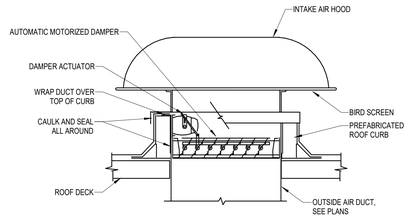
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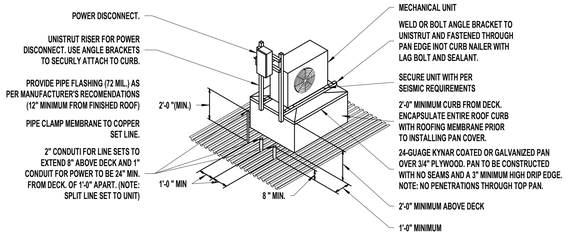
9 ROUND DUCT ELBOW DETAILS
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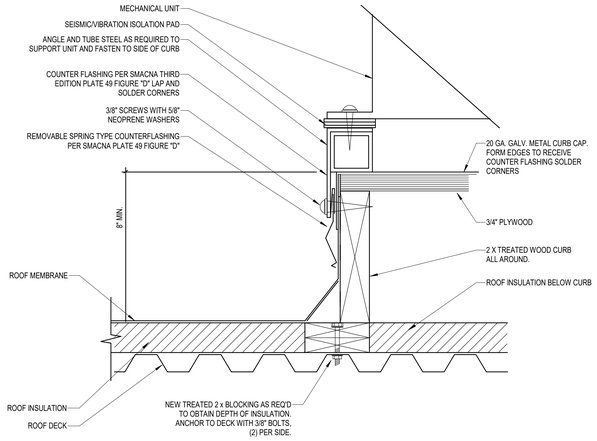
5 DUCT LINER DETAIL
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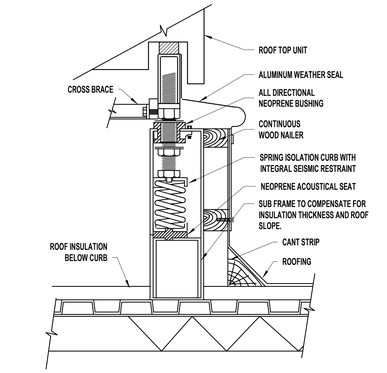
1 ROOF HOOD W/ MOTORIZED DAMPER
NOT TO SCALE



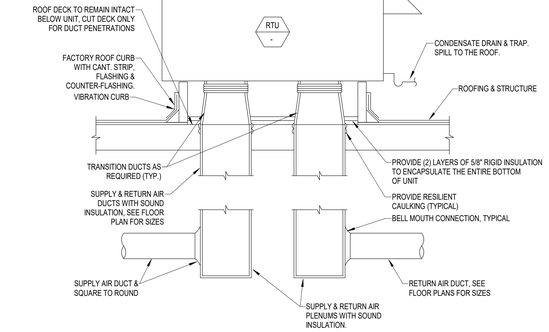
10 SPLIT SYSTEM CONDENSING UNIT DETAIL
NOT TO SCALE



6 HEAT PUMP (AIR SOURCE) CURB DETAIL
NOT TO SCALE



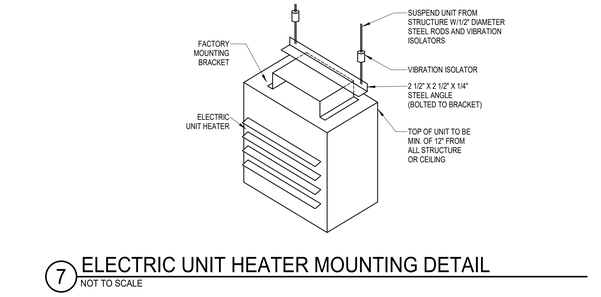
2 ROOFTOP UNIT CURB DETAIL
NOT TO SCALE



NOTES:

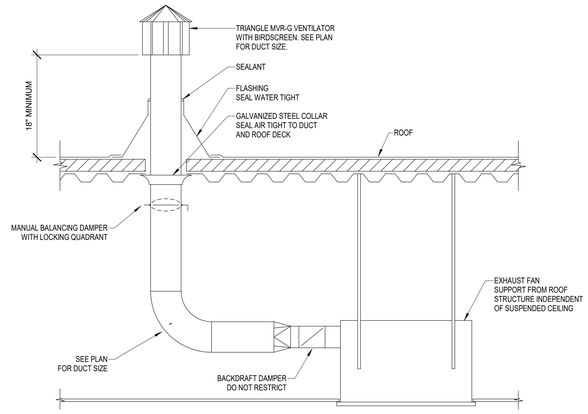
1. COORDINATE EXACT LOCATION AND FRAMING OF ROOF OPENING WITH GENERAL CONTRACTOR.

11 ROOFTOP MOUNTING DETAIL
NOT TO SCALE

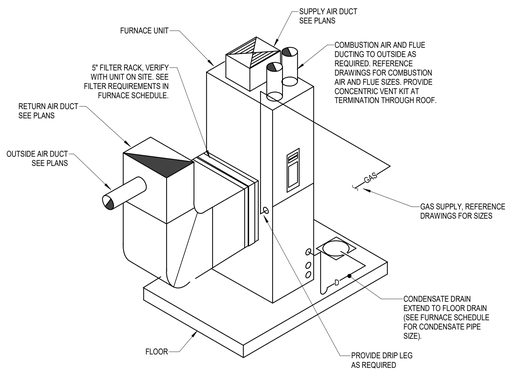


7 ELECTRIC UNIT HEATER MOUNTING DETAIL
NOT TO SCALE

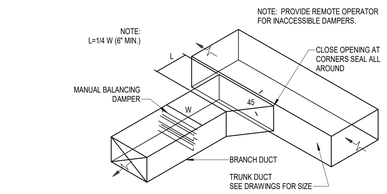
3 RETURN AIR TRANSFER GRILL W/SOUND BOOT DETAIL
NOT TO SCALE



12 CEILING MOUNT EXHAUST FAN
NOT TO SCALE



8 VERTICAL FURNACE DETAIL
NOT TO SCALE



4 BRANCH DUCT TAKE-OFF DETAIL
NOT TO SCALE

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SHEET NUMBER
M502

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PACKAGED ROOFTOP UNIT SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	VENTILATION AIR: OCCUPIED MINIMUM (CFM)	VENTILATION AIR: UNOCCUPIED MINIMUM (CFM)	SUPPLY FAN: AIRFLOW RATE (CFM)	SUPPLY FAN: EXTERNAL STATIC PRESSURE (IN. WATER)	HEATING SECTION: HEATING LOAD (BTU/H)	HEATING SECTION: AMBIENT TEMP. DB/WB (°F)	HEATING SECTION: ENTERING/ LEAVING AIR TEMP. (°F)	HEATING SECTION: MEDIUM	COOLING SECTION: TOTAL COOLING LOAD (BTU/H)	COOLING SECTION: SENSIBLE COOLING LOAD (BTU/H)	COOLING SECTION: AMBIENT TEMP. DB/WB (°F)	COOLING SECTION: ENTERING AIR TEMP. DB/WB (°F)	COOLING SECTION: LEAVING AIR TEMP. DB/WB (°F)	COOLING SECTION: MEDIUM	COOLING SECTION: COOLING STAGE	FILTER: EFF	ELECTRICAL: TOTAL MCA	ELECTRICAL: SUPPLY FAN MOTOR (HP)	ELECTRICAL: RELIEF FAN MOTOR (HP)	ELECTRICAL: SINGLE POINT VOLT/PH	IEER	PHYSICAL: L / W/ H (IN.)	PHYSICAL: OPERATING WEIGHT (LBS)	NOTES
RTU-1	LENNOX KGB150S4B	COUNCIL CHAMBERS	960	145	5000	0.6	85000	0	56.6 / 92.2	N. GAS	121,088	111,344	97 / 63	80.0 / 58.0	55.2 / 52.8	DX	2	MERV 8	65	3	1.2	208/3	12.2	101.3 / 60.1 / 46.9	1600	1,2,3,4,5

1. SITE ELEVATION AT 4500'
2. PROVIDE WITH BAROMETRIC RELIEF DAMPER WITH HOOD, SENSIBLE ECONOMIZER, STAINLESS STEEL HEAT EXCHANGER, 18"VIBRATION AND ISOLATION CURB, MESH HAIL / COIL GUARD.
3. PROVIDE UNIT WITH DISCONNECTS FACTORY INSTALLED AND PREWIRED, CONFIGURED FOR THRU THE BASE-SINGLE POINT POWER CONNNECTION, WITH COLOR WIRING DIAGRAM.
4. INDOOR DESIGN CONDITION: SUMMER 77°F DB, WINTER 70°F DB.
5. PROVIDE WITH SMOKE DETECTOR KIT TO BE INSTALLED IN RETURN AIR DUCT AT UNIT.

FURNACE SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	EVAPORATOR COIL MODEL	ARRANGMENT	AIRFLOW RATE (ACFM)	EXTERNAL STATIC PRESSURE DROP (IN H20)	HEATING: INPUT LOAD (MBH)	HEATING: OUTPUT LOAD (MBH)	HEATING: EAT / LAT DB (°F)	HEATING: STAGES	HEATING: FUEL TYPE	COOLING: TOTAL COOLING LOAD (BTU/H)	COOLING: SENSIBLE COOLING LOAD (BTU/H)	COOLING: ENTERING AIR TEMP. DB/WB (°F)	COOLING: LEAVING AIR TEMP. DB/WB (°F)	COMB AIR/ VENT (IN)	CONDENSATE DRAIN SIZE (IN)	GAS CONNECTION (NPT)	ELECTRICAL: BLOWER MOTOR (HP)	ELECTRICAL: VOLT/PH	PHYSICAL (FURNACE): HEIGHT/ WIDTH/ LENGTH (IN)	PHYSICAL (FURNACE): WEIGHT (LBS)	PHYSICAL (COOLING COIL): HEIGHT/ WIDTH/ LENGTH (IN)	PHYSICAL (COOLING COIL): WEIGHT (LBS)	NOTES
F-024	LENNOX SLP98UH070XV36B	CX35-30B-F	VERTICAL UP FLOW	800	0.5	66	64	60 / 133	MODULATING	NAT GAS	19,871	19,108	80 / 62	53.4 / 52.3	3	3/4	1/2	1/2	120/1	33 / 17.5 / 29.3	160	22.5 / 17.5 / 21	70	1,2,3,4
F-030	LENNOX SLP98UH070XV36B	CX35-36B-F	VERTICAL UP FLOW	1000	0.5	66	64	60 / 121	MODULATING	NAT GAS	25,080	24,317	80 / 62	52.9 / 52.4	3	3/4	1/2	1/2	120/1	33 / 17.5 / 29.3	160	24.5 / 17.5 / 21	70	1,2,3,4
F-036	LENNOX SLP98UH070XV36B	CX35-36B-F	VERTICAL UP FLOW	1200	0.5	66	64	60 / 109	MODULATING	NAT GAS	29,014	28,252	80 / 62	54.8 / 53	3	3/4	1/2	1/2	120/1	33 / 17.5 / 29.3	160	24.5 / 17.5 / 21	70	1,2,3,4
F-042	LENNOX SLP98UH090XV48C	CX35-48C-F	VERTICAL UP FLOW	1400	0.5	88	85	60 / 117	MODULATING	NAT GAS	34,663	33,519	80 / 62	53.3 / 52.2	3	3/4	1/2	3/4	120/1	33 / 17.5 / 29.3	200	27.5 / 21 / 21	80	1,2,3,4
F-048	LENNOX SLP98UH110XV60C	CX35-60C-F	VERTICAL UP FLOW	1600	0.5	110	106	60 / 123	MODULATING	NAT GAS	41,623	40,098	80 / 62	52 / 51.7	3	3/4	1/2	1	120/1	37.3 / 32.3 / 32.3	300	29.5 / 24.5 / 21	90	1,2,3,4
F-024D	LENNOX SLP98DF070XV36B	CR33-30/36B	VERTICAL DOWN FLOW	800	0.5	66	64	60 / 156	MODULATING	NAT GAS	19,871	19,108	80 / 62	53.4 / 52.3	3	3/4	1/2	1/2	120/1	33 / 17.5 / 29.3	200	27.5 / 21 / 21	80	1,2,3,4
F-036D	LENNOX SLP98DF070XV36B	CR33-48B	VERTICAL DOWN FLOW	1600	0.5	110	106	60 / 123	MODULATING	NAT GAS	29,014	28,252	80 / 62	54.8 / 53	3	3/4	1/2	1/2	120/1	37.3 / 32.3 / 32.3	300	29.5 / 24.5 / 21	90	1,2,3,4

1. UNIT PERFORMANCE AT DESIGN ELEVATION OF 4,500' ABOVE SEA LEVEL.
2. UNIT UTILIZES AN EC ELECTRIC FAN MOTOR.
3. PROVIDE UNIT COMPLETE WITH CONCENTRIC COMBUSTION AIR/VENT KIT.
4. PROVIDE WITH FUSED DISCONNECT, INSTALLED BY DIVISION 26.
5. PROVIDE WITH FILTER RACK AND MERV 11 20X25X5 PLEATED FILTER.

EXHAUST FAN SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	TYPE	AIR TYPE	AIR: MAXIMUM AIRFLOW RATE (CFM)	AIR: STATIC PRESSURE (IN. WATER)	ELECTRICAL: FAN SPEED (RPM)	ELECTRICAL: MOTOR SIZE (HP)	ELECTRICAL: POWER (BHP)	ELECTRICAL: MOTOR SPEED (RPM)	ELECTRICAL: VOLT/PH/HZ	SONES	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL: WEIGHT (LBS)	NOTES
EF-1	120SQN28D (VF)	INLINE	EXHAUST	1255	0.75	1710	1/2	0.33	1725	115/1/60	12.3	16 / 16 / 22	180	1,2,6
EF-2	COOK GC-740	CEILING	EXHAUST	585	0.5	1557	N/A	244 WATTS	N/A	120/1/60	4.5	13 / 17 / 13	21	1,3,5
EF-3	COOK GC-168	CEILING	EXHAUST	130	0.5	916	N/A	59 WATTS	N/A	120/1/60	3	13 / 16 / 7	50	1,3,5
EF-4	COOK GC-188	CEILING	EXHAUST	180	0.5	1319	N/A	80 WATTS	N/A	120/1/60	4.5	13 / 16 / 7	50	1,3,5
EF-5	COOK GC-188	CEILING	EXHAUST	170	0.5	1283	N/A	77 WATTS	N/A	120/1/60	4.5	13 / 16 / 7	50	1,3,5
EF-6	COOK GC-188	CEILING	EXHAUST	170	0.5	1283	N/A	77 WATTS	N/A	120/1/60	4.5	13 / 16 / 7	50	1,3,5
EF-7	COOK GN-622	INLINE	OUTSIDE AIR	345	0.5	1376	N/A	94 WATTS	N/A	120/1/60	3	15 / 17 / 12	60	1,2,6
EF-8	COOK GN-822	INLINE	TRANFER	350	0.3	837	N/A	167 WATTS	N/A	120/1/60	3.5	16 / 27 / 15	80	1,4,6

1. AIRFLOWS AT DESIGN ELEVATION OF 4,500'.
2. FAN TO OPERATE CONTINUOSLY DURING BUILDING OCCUPIED HOURS.
3. FAN TO BE ON OCCUPANCY SWITCH.
4. PROVIDE WITH INLINE VOLTAGE THERMOSTAT. SET TO 80° F
5. PROVIDE WITH BACKDRAFT DAMPER, FACTORY PRE-WIRED DISCONNECT, FACTORY PRE-WIRED FAN SPEED CONTROL, FACTORY VIBRATION ISOLATORS AND MANUFACTURER'S VENT KIT.
6. PROVIDE WITH BACKDRAFT DAMPER, FACTORY PRE-WIRED DISCONNECT, FACTORY PRE-WIRED FAN SPEED CONTROL, FACTORY HANGER KIT WITH SPRING VIBRATION ISOLATORS.

FURNACE, REMOTE HEATPUMP UNIT SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	REFRIGERANT	TOTAL COOLING CAPACITY (BTUH)	TOTAL HEATING CAPACITY @ 17°F (BTUH)	SEER	HSPF (IV)	MCA	MOCP	VOLTS/ PHASE	HEIGHT / WIDTH / LENGTH (IN)	OPERATING WEIGHT (LB)	NOTES
HP-024	LENNOX ML14XP1-024-230	R-410A	24,000	13,200	16	8.5	13.6	20	208/1	43.3 / 28.3 / 28.3	250	1,2,3,4,5
HP-030	LENNOX ML14XP1-030-230	R-410A	29,200	17,500	15.5	9	17.0	25	208/1	43.3 / 28.3 / 28.3	250	1,2,3,4,5
HP-036	LENNOX ML14XP1-036-230	R-410A	34,800	20,600	14.5	8.5	17.0	25	208/1	43.3 / 28.3 / 28.3	250	1,2,3,4,5
HP-042	LENNOX ML14XP1-042-230	R-410A	41,500	25,400	15	8.2	24.2	40	208/1	37.3 / 32.3 / 32.3	300	1,2,3,4,5
HP-048	LENNOX ML14XP1-048-230	R-410A	48,000	26,200	15.1	8.2	29.0	50	208/1	37.3 / 32.3 / 32.3	300	1,2,3,4,5

1. PERFORMANCE AT DESIGN ELEVATION OF 4,500' ASL.
2. PROVIDE UNIT WITH FACTORY REFRIGERANT LINE SET.
3. UNIT SHALL BE CAPABLE OF LOW AMBIENT OPERATION DOWN TO 30°F.
4. PROVIDE MATCHED AND BALANCED COOLING COIL AND CONDENSING UNIT FROM SINGLE SUPPLIER.
5. PROVIDE WITH FUSED DISCONNECT, INSTALLED BY DIVISION 26.

OUTSIDE AIR FAN SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	TYPE	AIR TYPE	AIR: MAXIMUM AIRFLOW RATE (CFM)	AIR: STATIC PRESSURE (IN. WATER)	ELECTRICAL: FAN SPEED (RPM)	ELECTRICAL: MOTOR SIZE (HP)	ELECTRICAL: POWER (BHP)	ELECTRICAL: MOTOR SPEED (RPM)	ELECTRICAL: VOLT/PH/HZ	SONES	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL: WEIGHT (LBS)	NOTES
OSA-1	TWIN CITY DSI165ANE	INLINE	OUTSIDE AIR	1625	1.2	1296	1	0.6	1750	208/1	11.4	26 / 24 / 24	400	1,2,3,4,5,6

1. AIRFLOWS AT DESIGN ELEVATION OF 4,500'.
2. FAN TO OPERATE CONTINUOSLY DURING BUILDING OCCUPIED HOURS.
3. PROVIDE WITH MOTORIZED DAMPER, INSULATED HOUSING, FACTORY PRE-WIRED FAN SPEED CONTROL, SPRING ISOLATORS WITH HANGER BRACKETS.
4. PROVIDE WITH FILTER BOX AND (3) 25" X 20" X 2" PLEATED MERV 8 FILTER.
5. FAN TO BE INTERLOCKED WITH DUCT FURANCE, FAN TO BE ENGERGEIZED WHEN DUCT FURANCE IS OPERATIONAL.
6. PROVIDE WITH DISC SWITCH - UNFUSED DISCONNECT, INSTALLED BY DIV. 26.

GAS FIRED DUCT HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	FUEL TYPE	FLUE SIZE (IN.)	COMBUSTION AIR SIZE (IN.)	AIRFLOW RATE (CFM)	INPUT HEATING LOAD (BTU/H)	OUTPUT HEATING LOAD (BTU/H)	HEAT EXCHANGER MATERIAL	HEATING STAGES	ELECTRICAL: FLA	ELECTRICAL: VOLT/PH/HZ	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL: WEIGHT (LBS)	NOTES
DH-1	REZNOR SC-150	MEZZANINE	NG	6	6	1970	130	104	STAINLESS STEEL	MODULATING	1.9	115/1/60	28 / 31 / 33	220	1,2

1. GAS HEATING INPUT AT 4500'.
2. SEALED COMBUSTION UNIT, PROVIDE WITH MANUFACTURER'S CONCENTRIC VENT KIT APPROPRIATE FOR INSTALLATION IN WALL OR ROOF AS REQUIRED.
3. INTERLOCK WITH OSA-1 AND OSA-1 DAMPER.
4. ELECTRONIC MODULATION W/DUCTSTAT, RELAY CONTACTS TO START EXHAUST FAN, HIGH & LOW GAS PRESSURE SWITCH, AIR FLOW PROVING SWITCH.

SPLIT SYSTEM A/C UNITS SCHEDULE

ID	MANUF.	MODEL	LOC.	COOLING CAPACITY (BTU)	INDOOR UNIT: CFM @ RANGE	INDOOR UNIT: DIMENSIONS W" x D" x H"	INDOOR UNIT: WEIGHT (LBS.)	INDOOR UNIT: AMPS (MCA)	OUTDOOR UNIT: MODEL	OUTDOOR UNIT: DIMENSIONS W" x H" x D"	OUTDOOR UNIT: WEIGHT (LBS.)	OUTDOOR UNIT: AMPS (MCA)	OUTDOOR UNIT: MOCP	OUTDOOR UNIT: VOLTS/ PH/HZ	SEER	REFRIG. LINES: LIQUID	REFRIG. LINES: GAS	NOTES
AC-1/CU-1	MITSUBISHI	PCA-A42K6	IT CLOSET	42,000	810-1,025	53 X 27 X 10	95	2	PUY-A42NHA6	38 x 54 x 15	300	26	40	208/1/60	15.8	3/8	5/8	1,2,3,4,5,6,7,8
AC-2/CU-2	MITSUBISHI	PKA-A24KA6	AV ROOM	24,000	635-775	47 X 15 X12	60	1	PUY-A24NHA6	38 x 38 x 14	180	18	30	208/1/60	17	3/8	5/8	1,2,3,4,5,6,7,8

1. CAPACITIES RATED AT THE FOLLOWING OUTDOOR CONDITIONS: COOLING - 95° F D.B., 75° F W.B.
2. CAPACITIES RATED AT THE FOLLOWING INDOOR CONDITIONS: COOLING - 80° F D.B., 67° F W.B.
3. PROVIDE INDOOR UNIT WITH INTEGRAL CONDENSATE PUMP, ROUTE CONDENSATE TO NEAREST FLOOR DRAIN OR LAV/SINK TAILPIECE.
4. PROVIDE WITH WIND BAFFLE, WALL MOUNTED CONTROLLER.
5. INDOOR UNIT POWERED BY OUTDOOR UNIT.
6. SCHEDULED CAPACITIES AT AHRI CONDITIONS.
7. PROVIDE WITH FUSED DISCONNECT, INSTALLED BY DIV. 26.
8. AIR FLOW AT SEA LEVEL.

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KAYSVILLE CITY MUNICIPAL BUILDING
ADDITION & RENOVATION
23 EAST CENTER STREET
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SEAL

MHTN PROJECT NO. 2018576

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NO.	DATE	DESCRIPTION
1	06/24/19	ADDENDUM 1
2	08/21/19	ADDENDUM 2

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
MECHANICAL SCHEDULES

SHEET NUMBER
M601

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HOOD SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	AIR TYPE	AIR: MAXIMUM AIRFLOW RATE (CFM)	AIR: STATIC PRESSURE (IN. WATER)	PHYSICAL: INLET HEIGHT ABOVE ROOF (IN)	PHYSICAL: TOTAL HEIGHT (IN)	PHYSICAL: THROAT LENGTH / WIDTH (IN)	NOTES
H-1	GREENHECK GRSI-24	ROOF	ALUMINUM CAP	OUTSIDE AIR	1675	0.04	16	26	24.5 / 24.5	1
H-2	GREENHECK GRSI-20	ROOF	ALUMINUM CAP	EXHAUST	1255	0.05	16	26	18 / 18	1
H-3	GREENHECK GRSI-12	ROOF	ALUMINUM CAP	OUTSIDE AIR	345	0.03	16	26	19 / 18	1

1. PROVIDE WITH BACKDRAFT DAMPER, INSECT SCREEN AND 14" TALL ROOF CURB.
2. AIRFLOWS AT DESIGN ELEVATION OF 4,500'.

GRILLES, REGISTERS AND DIFFUSERS

ID	MANUFACTURER	MODEL	DESCRIPTION	
CD-1	PRICE	SPD	FACE STYLE: SQUARE PLAQUE DIFFUSER W/ REMOVABLE FACE FACE SIZE: 24" x 24", 20" x 20" OR 12" x 12" AS REQUIRED TO FIT CEILING / TILE SPACE AVAILABLE APPLICATION: SUPPLY AIR VELOCITY: 400 FPM MAX MATERIAL: ALUMINUM / STEEL	FINISH: COORDINATE COLOR WITH ARCHITECT MOUNTING-FRAME: SURFACE OR LAY-IN, AS REQ'D. PATTERN: 360° RADIAL HORIZONTAL AIR PATTERN DAMPER: MANUAL BALANCE DAMPER MAX NC - 30
CD-2	PRICE	LBPH	FACE STYLE: LINEAR BAR GRILLES @ 7/16" SPACING, BLADES PARALLEL TO LONG DIMENSION APPLICATION: SUPPLY AIR MATERIAL: BORDER AND FRAME; ALUMINUM FINISH: FACE; COORDINATE COLOR WITH ARCHITECT DAMPER: OPPOSED BLADE DAMPER, OPERABLE FROM GRILLE FACE.	MOUNTING: SURFACE PATTERN: 15° DEFLECTION, MAX NC - 30 BORDER: 1/2" BORDER, COUNTERSUNK SCREW HOLES CORE: 26B VELOCITY: 400 FPM MAX
CD-3	PRICE	AS	FACE STYLE: CUSTOM FLOW LINEAR APPLICATION: SUPPLY AIR MATERIAL: BORDER & FRAME: ALUMINUM MATERIAL: PATTERN CONTROLLER: ALUMINUM / STEEL FINISH: FACE; COORDINATE COLOR WITH ARCHITECT DAMPER: NONE	MOUNTING: SURFACE PATTERN: ONE WAY, FULLY ADJUSTABLE MAX NC - 30 PROVIDE: FACTORY ENGINEERED, INSULATED PLENUM (CFP) COORDINATE PLENUM HEIGHT & ROUND DUCT CONNECTION.
EG-1	PRICE	PDDR	FACE STYLE: PERFORATED FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. APPLICATION: EXHAUST AIR MATERIAL: ALUMINUM / STEEL	MOUNTING-FRAME: SURFACE OR LAY-IN, AS REQUIRED, WITH REMOVABLE FACE & CORE. DAMPER: NONE FINISH: COORDINATE COLOR WITH ARCHITECT MAX NC - 30
RG-1	PRICE	PDDR	FACE STYLE: PERFORATED FACE SIZE: 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. APPLICATION: RETURN AIR MATERIAL: ALUMINUM / STEEL	MOUNTING-FRAME: SURFACE OR LAY-IN, AS REQUIRED, WITH REMOVABLE FACE & CORE. DAMPER: NONE FINISH: COORDINATE COLOR WITH ARCHITECT MAX NC - 30
SWR-1	PRICE	630	FACE STYLE: SIDE WALL RETURN AIR GRILLE. ARRANGEMENT: 3/4" ON CENTER BLADE SPACING, 45 DEGREE DELFECTION, BLADES TO BE PARALLEL TO LONG DIMENSION. FRAME: 1" NARROW BORDER VELOCITY: 500 FPM MAX	MATERIAL: ALUMINUM FINISH: COORDINATE COLOR WITH ARCHITECT MOUNTING: COUNTER SCREW HOLES DAMPER: OBD MAX NC - 30
SWS-1	PRICE	540	FACE STYLE: SUPPLY MULTI LOUVER 3/4" BLADE SPACING APPLICATION: CONSTANT VOLUME MATERIAL: ALUMINUM / STEEL FINISH: COORDINATE COLOR WITH ARCHITECT	PATTERN: DOUBLE DEFLECTION MOUNTING: SURFACE (SIDE-WALL) SEE PLANS. DAMPER: OBD LOUVER BLADE PARALLEL TO LONG DIMENSION

NOTE: UNLESS NOTED OTHERWISE CD-1 TYPICAL SQUARE DIFFUSER; RG-1 TYPICAL SQUARE RETURN AIR GRILLE; EG-1 TYPICAL EXHAUST AIR GRILLE.
UNLESS NOTED OTHERWISE, ALL RUNOUTS TO DIFFUSERS AND GRILLES ARE TO BE NECK SIZE.

ELECTRIC UNIT HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	USAGE	AIR: AIRFLOW RATE (CFM)	AIR: LOAD (BTU/H)	AIR: ENTERING TEMP. DB (°F)	AIR: LEAVING TEMP. DB (°F)	ELECTRICAL: KW	ELECTRICAL: AMPS	ELECTRICAL: VOLT/PH/HZ	MOTOR RPM	MOTOR HP	PHYSICAL: LENGTH/ WIDTH/ HEIGHT (IN)	PHYSICAL: WEIGHT (LBS)	NOTES
EUH-1	BERKO HUHAA320	MECH/FIRE RISER	HORIZONTAL	HEATING	350	10200	50	77	3	14.5	208/1/60	1600	1/100	14 / 8.5 / 16	40	1,2,3,4

1. PROVIDE WITH INTEGRAL THERMOSTAT. SET TO 50°F
2. PROVIDE WITH FUSED DISCONNECT, INSTALLED BY DIVISION 26.
3. PROVIDE WITH CEILING MOUNTING HARDWARE AND SPRING ISOLATORS.
4. AIRFLOW AT SEA LEVEL.

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SEAL

MHTN PROJECT NO. 2018576

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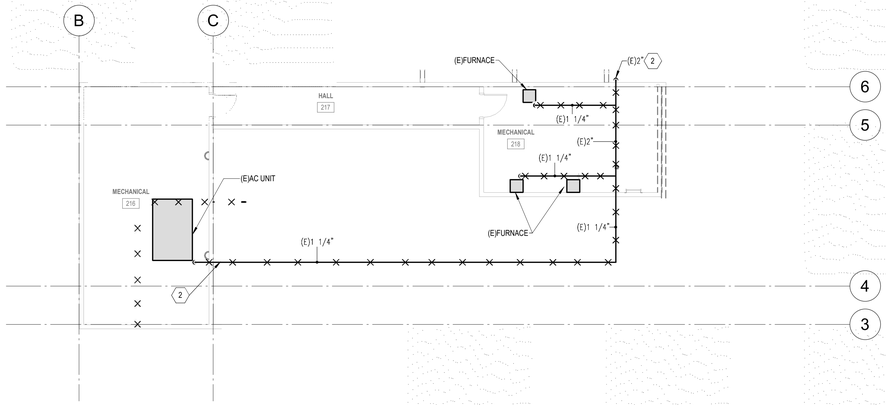
NO.	DATE	DESCRIPTION
1	06/24/19	ADDENDUM 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
MECHANICAL SCHEDULES

SHEET NUMBER
M602

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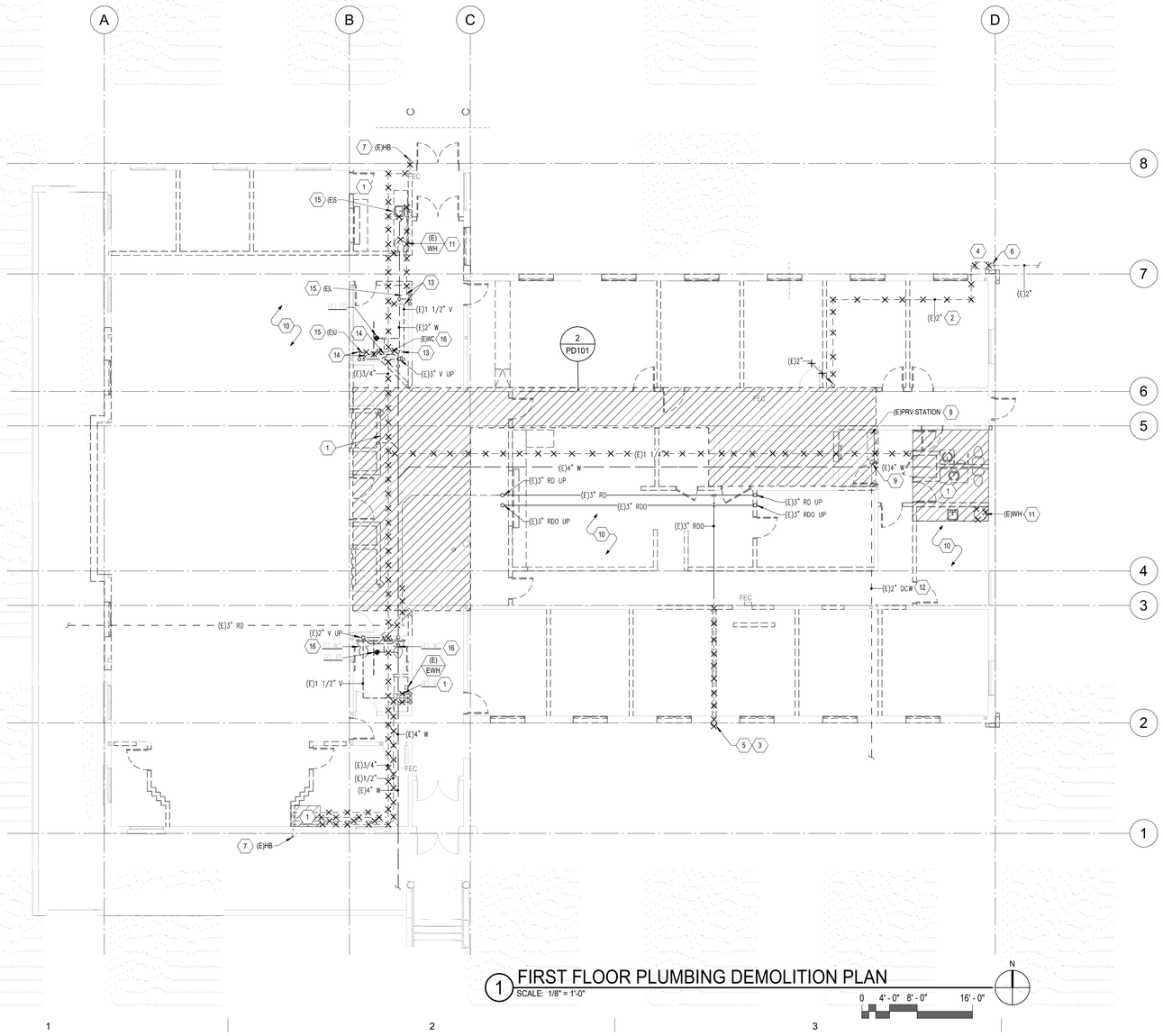


2 MEZZANINE FLOOR PLUMBING DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

N

0 4'-0" 8'-0" 16'-0"



1 FIRST FLOOR PLUMBING DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

N

0 4'-0" 8'-0" 16'-0"

KEYED NOTES

1. REMOVE EXISTING PLUMBING FIXTURES. REMOVE EXISTING DOMESTIC COLD, HOT, AND WASTE PIPING TO BELOW SLAB AND CAP. REMOVE VENT PIPING COMPLETELY, PATCH OPENINGS THROUGH FLOOR AND ROOF TO MATCH SURROUNDING SURFACE. REFER TO ARCHITECTURAL FINISH PLANS.
2. REMOVE EXISTING GAS PIPING, CAP OPEN ENDS OF PIPE EXPOSED BY DEMOLITION.
3. COORDINATE DEMOLITION OF DOWNSPOUT NOZZLE WITH NEW WORK OVERFLOW TO REMAIN IN USE DURING CONSTRUCTION.
4. GAS METER TO BE REMOVED.
5. REMOVE EXISTING DOWNSPOUT NOZZLE, AND ASSOCIATED ROOF DRAIN OVERFLOW PIPING RISER TO CONNECTION TO HORIZONTAL PIPE ABOVE CEILING.
6. DEMOLISH EXISTING GAS PIPING TO THIS APPROXIMATE LOCATION AND CAP PIPING ABOVE GRADE.
7. DEMOLISH EXISTING HOSE BIBB.
8. DEMOLISH EXISTING PRV STATION AND ALL ASSOCIATED DOMESTIC COLD WATER PIPING.
9. DEMOLISH DOMESTIC COLD WATER PIPING TO BELOW FLOOR AND CAP. ABANDON DOMESTIC COLD WATER BELOW SLAB IN PLACE.
10. DEMOLISH ALL EXISTING DOMESTIC HOT AND COLD WATER PIPING LOCATED ABOVE FLOOR SLAB. TYPICAL.
11. DEMOLISH EXISTING WATER HEATER AND ALL ASSOCIATED HOT, COLD, RECIRC. AND GAS PIPING AS REQUIRED.
12. ADANDON EXISTING BELOW SLAB WATER SUPPLY IN PLACE.
13. DEMOLISH EXISTING PIPING TO THIS APPROXIMATE LOCATION.
14. DEMOLISH EXISTING PIPING TO THIS APPROXIMATE LOCATION AND CAP.
15. DEMOLISH EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING TO WALL.
16. DEMOLISH EXISTING PLUMBING FIXTURE AND ASSOCIATED PIPING TO WALL AND FLOOR.

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KAYSVILLE CITY MUNICIPAL BUILDING
ADDITION & RENOVATION
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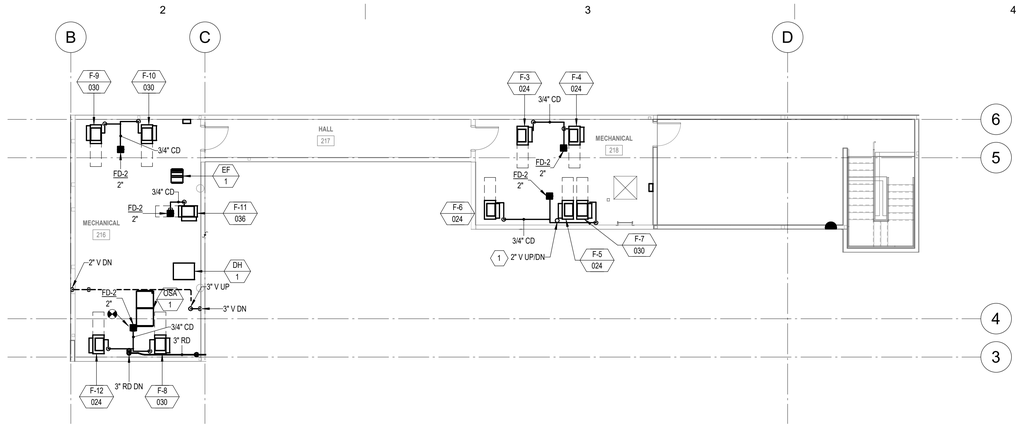
NO.	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
FIRST FLOOR & MEZZANINE PLUMBING DEMOLITION PLANS

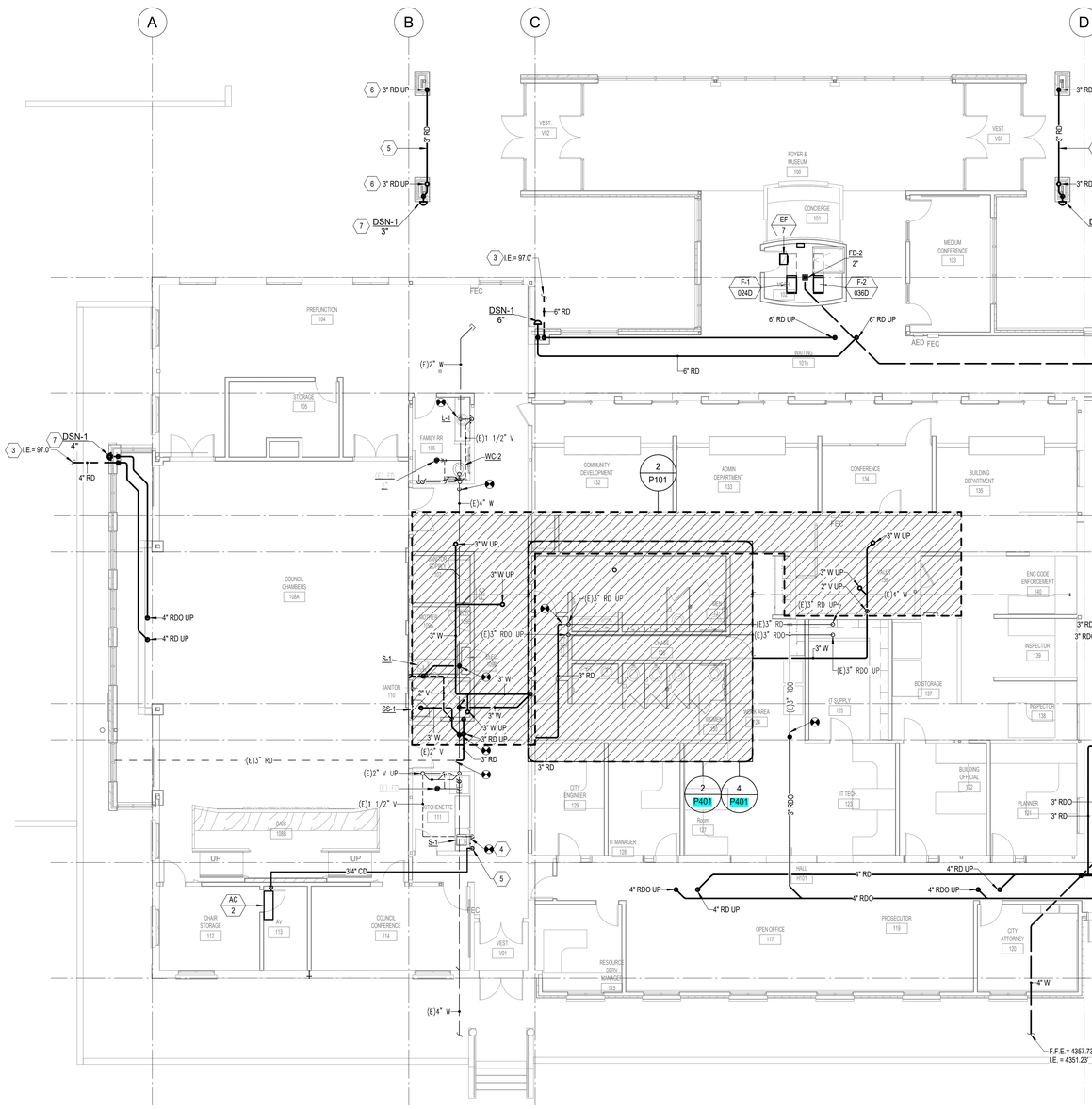
PD101

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2 MEZZANINE FLOOR WASTE & VENT PLUMBING PLAN

SCALE: 1/8" = 1'-0"



1 FIRST FLOOR WASTE & VENT PLUMBING PLAN

SCALE: 1/8" = 1'-0"

KEYED NOTES

1. TRANSITION VENT TO 3" VENT PIPE BEFORE PENETRATING ROOF.
2. REPLACE EXISTING FLOOR DRAIN WITH NEW FLOOR DRAIN AS SCHEDULED.
3. REFERENCE CIVIL PLANS FOR PIPE CONTINUATION.
4. EXTEND WASTE PIPING TO NEW SINK AS REQUIRED.
5. ROOF DRAIN PIPING TO BE HEAT TRACED. PROVIDE HEAT TRACING, RAYCHEM XL-TRACE 5XL SELF REGULATING HEAT TRACE, 5 W/FT, 120V, 1PH.
6. COORDINATE DRAIN CONNECTION WITH GUTTER SYSTEM.
7. COORDINATE DOWN SPOUT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
8. ROUTE 3/4" CONDENSATE DOWN IN CHASE TO TAIL PIECE OF LAVATORY.

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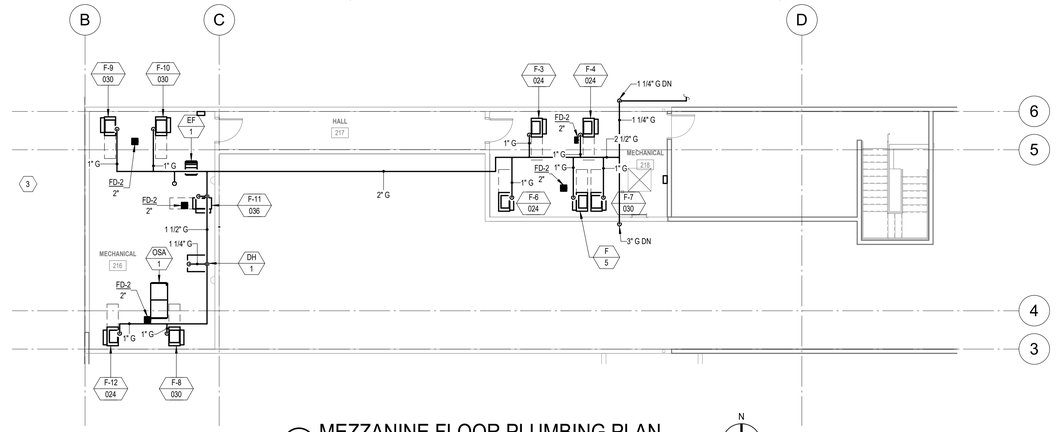
NO.	DATE	DESCRIPTION

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28 AUGUST 2019

SHEET NAME
FIRST LEVEL WASTE & VENT PLUMBING PLAN

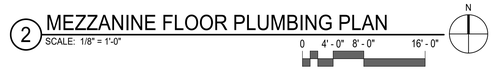
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P101

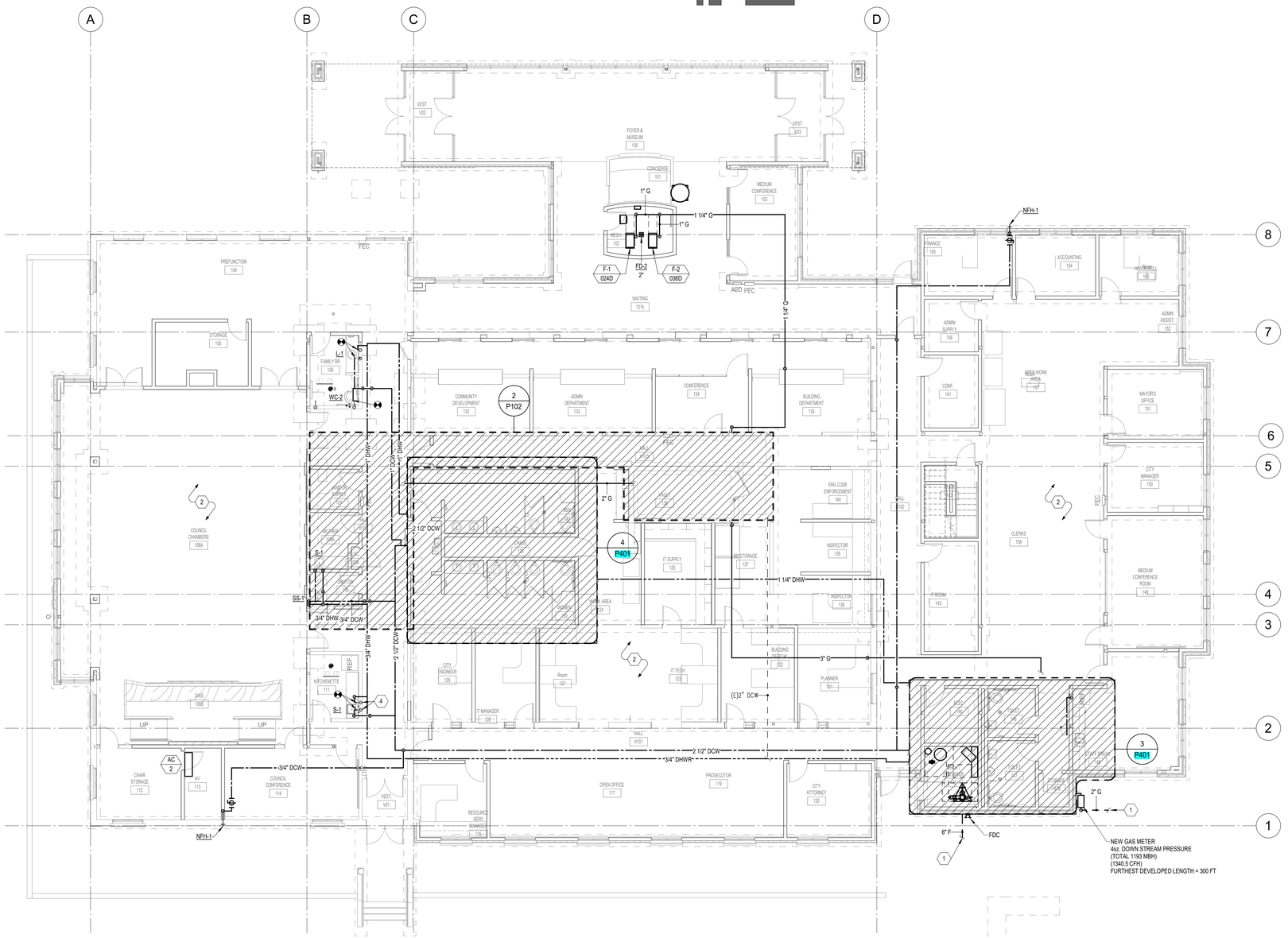
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2 MEZZANINE FLOOR PLUMBING PLAN

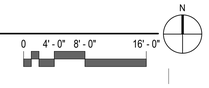
SCALE: 1/8" = 1'-0"





1 FIRST FLOOR PLUMBING PLAN

SCALE: 1/8" = 1'-0"



KEYED NOTES

1. REFERENCE CIVIL PLANS FOR PIPE CONTINUATION.
2. INSTALL FIRE SPRINKLERS IN ALL PORTIONS OF EXISTING BUILDING AND ADDITION ACCORDING TO NFPA 13.
3. ROUTE TO ROOF TOP UNIT AS REQUIRED.
4. EXTEND DOMESTIC HOT AND COLD WATER PIPING AS REQUIRED FOR NEW SINK.

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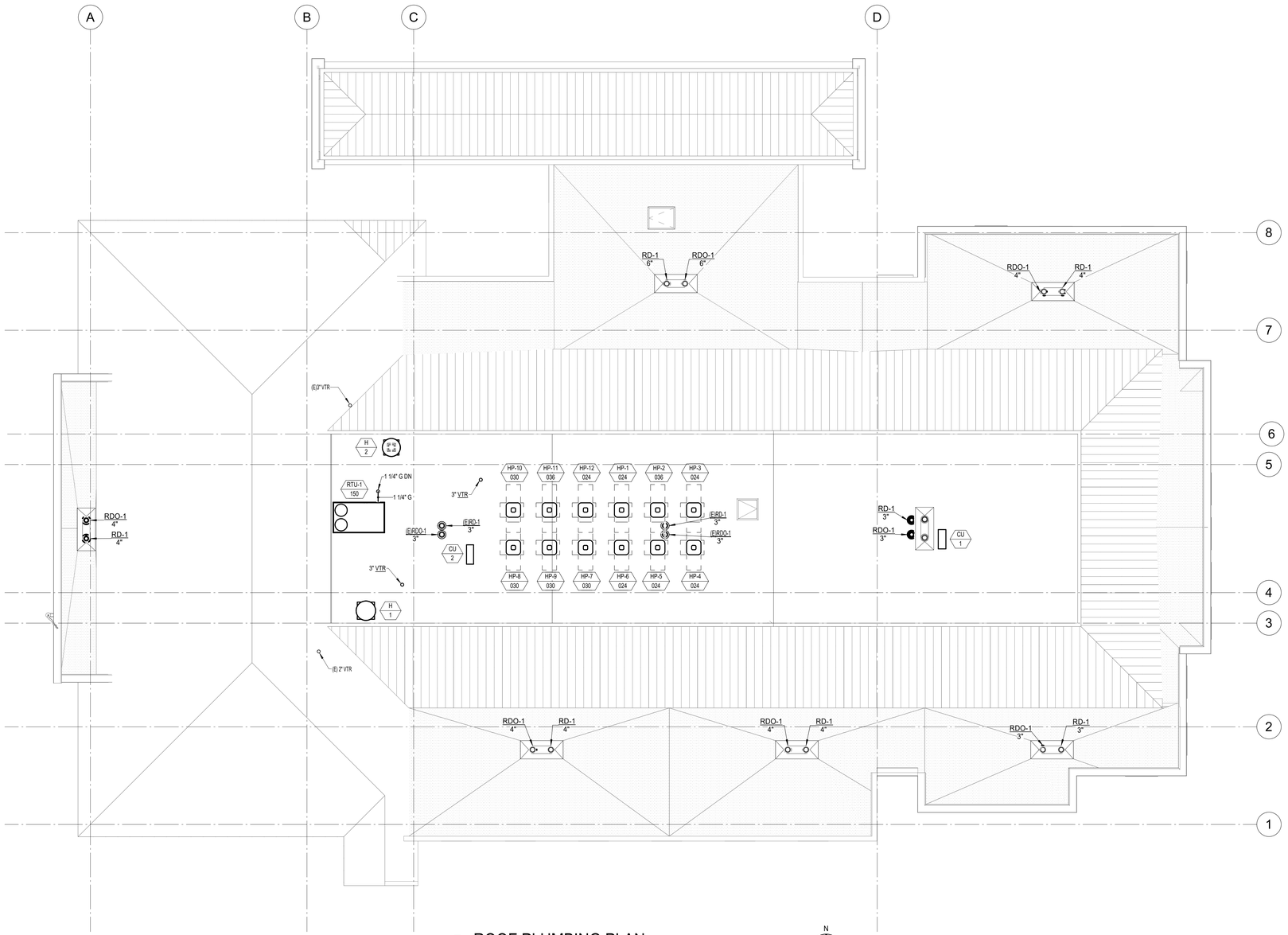
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SHEET NAME
FIRST LEVEL DOMESTIC PLUMBING PLAN

SHEET NUMBER
P102

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8/27/2019 3:35:18 PM



1 ROOF PLUMBING PLAN
SCALE: 1/8" = 1'-0"

N

0 4' - 0" 8' - 0" 16' - 0"

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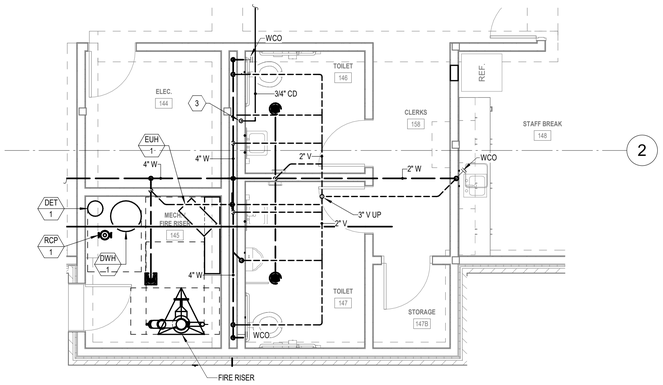
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ROOF PLUMBING PLAN

SHEET NUMBER
P103

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KEYED NOTES

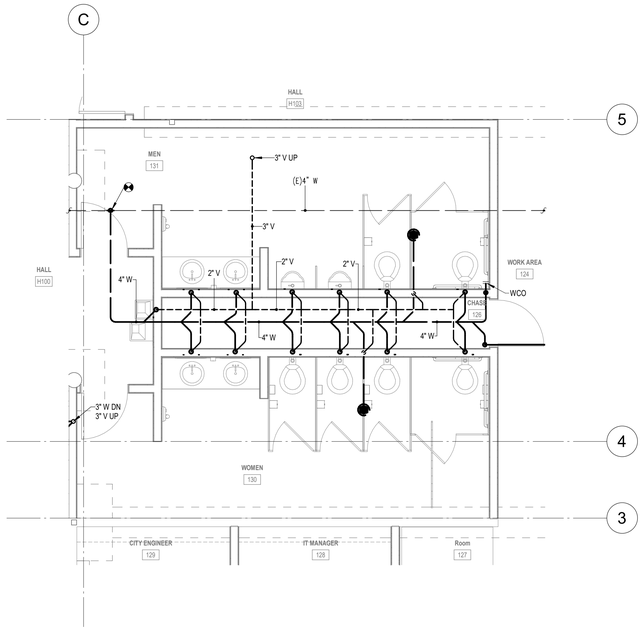
1. DROP DOMESTIC HOT WATER DOWN ALONG WALL AND BEHIND LAVATORIES. RISE UP TO SET HEIGHT AFTER LAST LAVATORY.
2. ROUTE DOMESTIC COLD WATER DOWN CHASE AND CONNECT TO PLUMBING FIXTURES AS REQUIRED. SEE PLUMBING FIXTURE SCHEDULE FOR REQUIRED PIPE SIZE(S) TO FIXTURES.



1 ENLARGED 145/146/147 WASTE & VENT PLAN

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

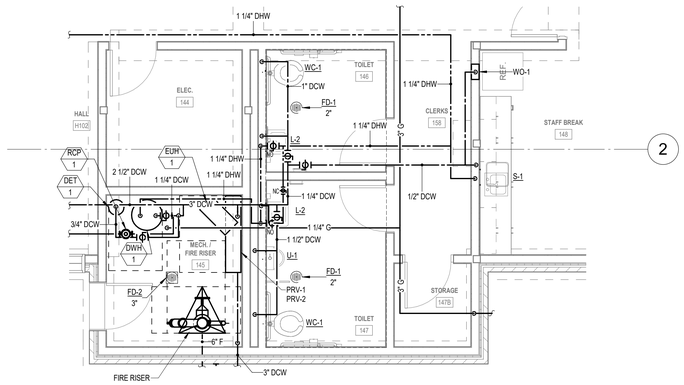
0 2' - 0" 4' - 0" 8' - 0"



2 ENLARGED RR 130/131 WASTE & VENT PLAN

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

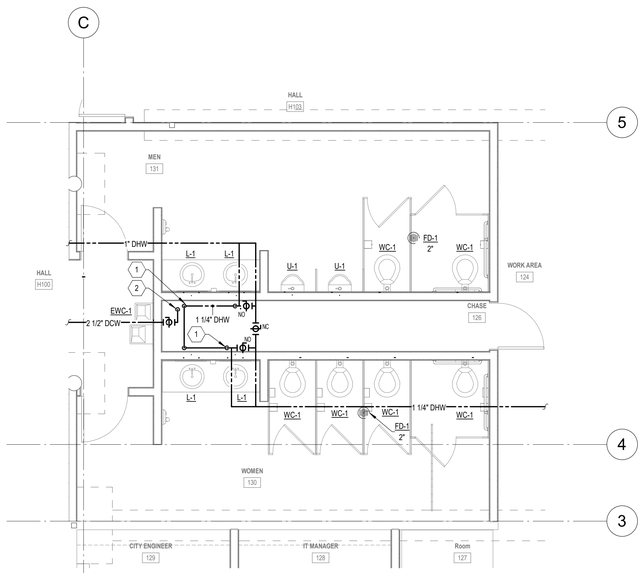
0 2' - 0" 4' - 0" 8' - 0"



3 ENLARGED 145/146/147 PLUMBING PLAN

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

0 2' - 0" 4' - 0" 8' - 0"



4 ENLARGED RR 130/131 PLUMBING PLAN

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

0 2' - 0" 4' - 0" 8' - 0"

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KAYSVILLE CITY MUNICIPAL BUILDING
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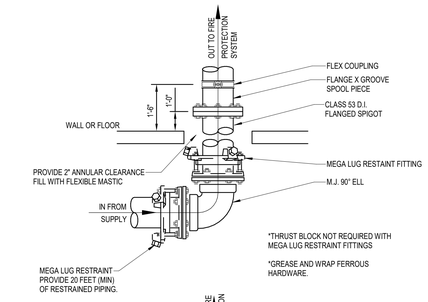
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1	06/24/19	ADDENDUM 1

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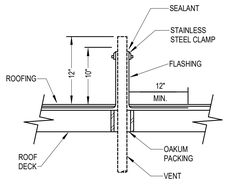
SHEET NAME
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SHEET NUMBER
P401

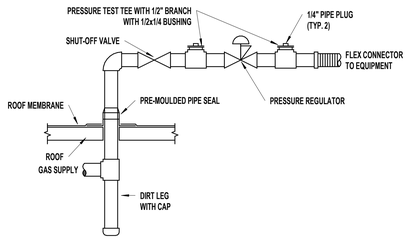
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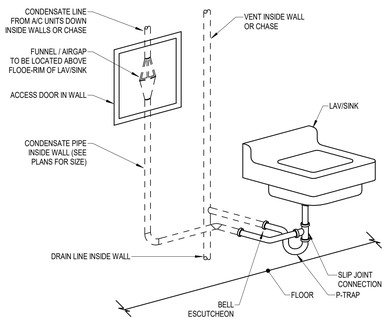
10 FLANGED SPIGOT DETAIL
NOT TO SCALE



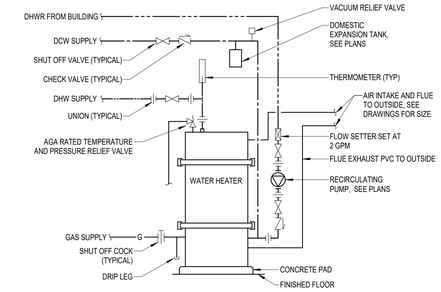
11 VENT THRU ROOF FLASHING & SLEEVING DETAIL
NOT TO SCALE



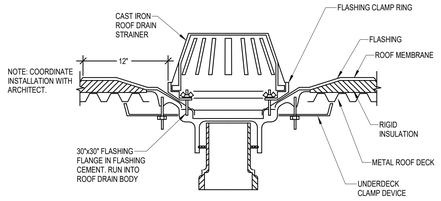
12 GAS CONNECTION TO ROOF EQUIPMENT DETAIL
NOT TO SCALE



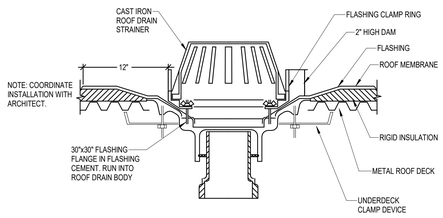
13 CONDENSATE CONN. TO TAIL-PIECE OF LAV/SINK DETAIL
NOT TO SCALE



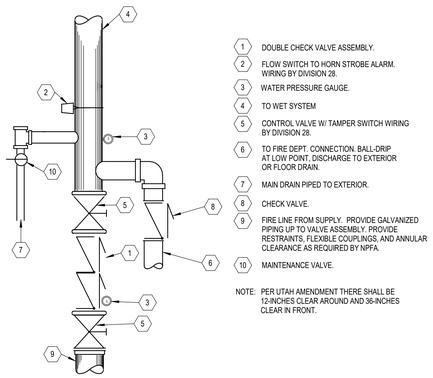
6 WATER HEATER DETAIL (Sealed Combustion 1 Heater)
NOT TO SCALE



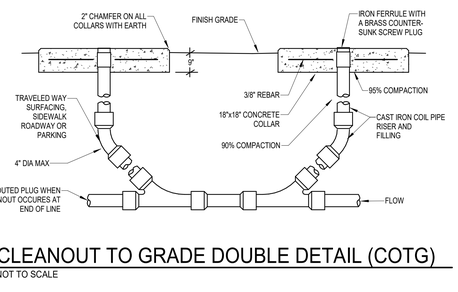
7 ROOF DRAIN DETAIL
NOT TO SCALE



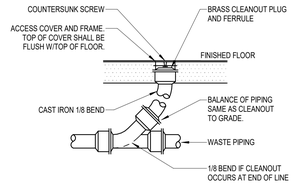
8 ROOF DRAIN OVERFLOW DETAIL
NOT TO SCALE



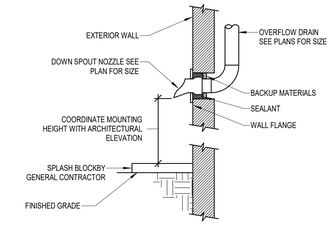
9 FIRE SPRINKLER RISER DETAIL
NOT TO SCALE



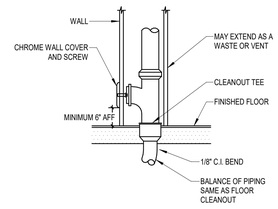
1 CLEANOUT TO GRADE DOUBLE DETAIL (COTG)
NOT TO SCALE



2 FLOOR CLEANOUT DETAIL
NOT TO SCALE

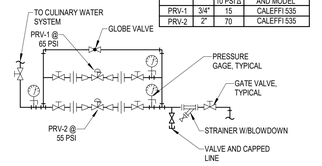


3 DOWNSPOUT NOZZLE DETAIL
NOT TO SCALE



4 WALL CLEANOUT DETAIL
NOT TO SCALE

PRV SCHEDULE			
PLAN ID	SIZE	GPM @ 10 PSI Δ	MANUFACTURER AND MODEL
PRV-1	3/4"	15	CALEFFI 535
PRV-2	2"	70	CALEFFI 535



5 WATER HEADER PRV DETAIL DETAIL
NOT TO SCALE

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PLUMBING DETAILS

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P501

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PLUMBING FIXTURE SCHEDULE

ID	FIXTURE	CW (IN)	HW (IN)	W (IN)	V (IN)	SPECIFICATION	
DSN-1	DOWN SPOUT NOZZLE (SEE PLANS FOR SIZE)	-.-	-.-	-.-	-.-	FIXTURE:	SMITH 1770 DOWNSPOUT NOZZLE WITH CAST BRONZE BODY AND FLANGE.
EWC-1	ELECTRIC WATER COOLER & BOTTLE FILL STATION, ADA	1/2	-.-	1 1/2	1 1/2	FIXTURE:	ELKAY LZSTL8WSLK TWO-STATION, BI-LEVEL WATER COOLER & LZWSR BOTTLE FILLING STATION, WALL MOUNTED, TOUCHLESS, BARRIER FREE, ADA ELECTRIC WATER COOLER W/ "FLEXI-GUARD" SAFETY BUBBLER. 115V, 60 HZ, 6 F.L.A. CAPACITY: 8.0 GPH OF 50°F WATER. PROVIDE SHUT-OFF VALVE ON BRANCH WATER PIPING & 1-1/2" CAST BRASS CHROME-PLATED P-TRAPS. FOR INDOOR USE ONLY. COORDINATE ADA COMPLIANCE WITH ARCHITECT. PROVIDE WITH THREE EXTRA FILTERS.
FD-1	FLOOR DRAIN (RESTROOM)	-.-	-.-	2	2	FIXTURE:	SMITH FIGURE 2005Y-P050 FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 6" ROUND NICKEL BRONZE ADJUSTABLE STRAINER HEAD WITH SECURED GRATE AND 4" DEEP SEAL TRAP.
FD-2	FLOOR DRAIN (UTILITY)	-.-	-.-	3	2	FIXTURE:	SMITH FIGURE 2220Y-P050 FLOOR DRAIN WITH CAST IRON BODY AND FLASHING COLLAR WITH 8" CAST IRON GRATE AND SEDIMENT BUCKET, NO-HUB CONNECTION, AND 4" DEEP SEAL TRAP.
L-1	LAVATORY (OVER COUNTER)	1/2	1/2	1 1/2	1 1/2	FIXTURE: FAUCET: ACCESSORIES:	KOHLER "PENNINGTON" K-2196 DROP-IN LAVATORY, VITREOUS CHINA, OVERFLOW WITH CONCEALED ARMS, SINGLE FAUCET HOLE. CHICAGO 116.101.AB.1, 4" DECK MOUNTED, SINGLE SUPPLY FOR TEMPERED WATER @ 0.5 GPM, SINGLE HOLE, HARD WIRED (PROVIDE WITH 12 VOLT AC TRANSFORMER), SENSOR OPERATED FAUCET, WITH AERATOR. PROVIDE WITH K-7715 INTEGRAL PERFORATED GRID DRAIN, 1-1/4" C.P. CAST BRASS "P" TRAP & BRASSCRAFT C.P. PIPES AND STOPS. COVER ALL EXPOSED PIPING WITH WHITE "HANDI-LAV GUARD" PROTECTOR TO MEET ADA REQUIREMENTS. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE WITH DUAL CHECKS IN HOT & COLD SUPPLIES.
L-2	LAVATORY (WALL MOUNT)	1/2	1/2	1 1/2	1 1/2	FIXTURE: FAUCET: ACCESSORIES:	KOHLER "GREENWICH" K-2302 WALL MOUNT, VITREOUS CHINA, BACKSPLASH, FRONT OVERFLOW WITH CONCEALED ARMS, CAPS OVER WATER SUPPLY HOLES. CHICAGO 116.101.AB.1, 4" DECK MOUNTED, SINGLE SUPPLY FOR TEMPERED WATER @ 0.5 GPM, SINGLE HOLE, HARD WIRED (PROVIDE WITH 12 VOLT AC TRANSFORMER), SENSOR OPERATED FAUCET, WITH AERATOR. PROVIDE WITH K-7715 INTEGRAL PERFORATED GRID DRAIN, 1-1/4" C.P. CAST BRASS "P" TRAP & BRASSCRAFT C.P. PIPES AND STOPS, WITH #700 SMITH CONCEALED ARM SUPPORT, HEIGHT SET BY ARCHITECT. COVER ALL EXPOSED PIPING WITH WHITE "HANDI-LAV GUARD" PROTECTOR TO MEET ADA REQUIREMENTS. PROVIDE ASSE 1070 THERMOSTATIC MIXING VALVE WITH DUAL CHECKS IN HOT & COLD SUPPLIES.
NFH-1	NON FREEZE WALL HYDRANT	3/4	-.-	-.-	-.-	FIXTURE:	WATTS HY-420 WITH INTEGRAL VACUUM BREAKER, NON-FREEZE, CHROME FACE. PROVIDE 12-INCHES MINIMUM LENGTH, 18-INCHES IF POSSIBLE. PROVIDE SHUTOFF VALVE IN SUPPLY PIPE. VALVE TO BE LOCATED IN ACCESSIBLE LOCATION, TYPICALLY IN CEILING SPACE, AS CLOSE TO NFH-1 AS FEASIBLE.
RD-1	ROOF DRAIN (SEE PLANS FOR SIZE)	-.-	-.-	-.-	-.-	FIXTURE:	SMITH FIGURE 1010-C-R CID DUCO CAST IRON BODY WITH COMBINED FLASHING COLLAR AND GRAVEL STOP, WITH UNDERDECK CLAMP AND LOW PROFILE CAST IRON DOME. SEE PLANS FOR SIZE.
RDO-1	ROOF DRAIN OVERFLOW (SEE PLANS FOR SIZE)	-.-	-.-	-.-	-.-	FIXTURE:	SMITH FIGURE 1080-C-R CID DUCO CAST IRON BODY WITH COMBINED FLASHING COLLAR AND GRAVEL STOP, WITH UNDERDECK CLAMP AND LOW PROFILE CAST IRON DOME. COMPLETE WITH 2-INCH DAM. SEE PLANS FOR SIZE.
S-1	SINK (OVER-COUNTER, ADA)	1/2	1/2	2	1 1/2	FIXTURE: FAUCET: ACCESSORIES:	JUST MODEL SL-ADA-1921, 18" X 14" X 7-1/2" DEEP, SINGLE COMPARTMENT, SELF-RIMMING 16 GAUGE TYPE 304 STAINLESS STEEL, SOUND DEADENED, 8" CENTERS MOEN 8938 TWO-HANDLE BAR FAUCET, WRIST BLADE STYLE HANDLES, CHROME PLATED METAL CONSTRUCTION, 1.2 GPM MAX FLOW RATE. WITH GRID DRAIN, 1-1/2" C.P. CAST BRASS "P" TRAP, BRASSCRAFT C.P. SUPPLY PIPES AND STOPS. PROVIDE WATTS LFUSG-B-M2 THERMOSTATIC MIXING VALVE W/ WATTS NO. 7C DUAL CHECKS IN HOT & COLD SUPPLIES. SET MIXING VALVE TO 105 DEGREES FAHRENHEIT.
SS-1	SERVICE SINK	3/4	3/4	3	2	FIXTURE: FAUCET: ACCESSORIES:	KOHLER K-6710 "WHITBY", FLOOR-MOUNTED, CORNER FIT JANITOR'S SINK, 28" X 28" O.D., ENAMELED CAST IRON. CHICAGO #897 C.P. FAUCET WITH VACUUM BREAKER, LEVER HANDLES, LOOSE KEY STOPS, MOUNT FAUCET AT 42" A.F.F. 60" RUBBER HOSE AND WALL HOOK, K-8940 RIM GUARD, K-9146 PERFORATED STRAINER, TAPPED 3-INCH I.P.S. & 3-INCH SMITH #7221 CAST IRON "P" TRAP.
U-1	URINAL (WALL HUNG)	3/4	-.-	2	2	FIXTURE: FLUSH VALVE: ACCESSORIES:	KOHLER "DEXTER" K-5016-ET, VITREOUS CHINA ADA URINAL WITH 3/4" TOP SPUD SLOAN ROYAL 186 ESS, 0.5 GPF, HARDWIRED (PROVIDE SLOAN EL-154 TRANSFORMER), SIDE MOUNTED SENSOR OPERATED FLUSHOMETER. CHROME PLATED METAL HOUSING FOR SENSOR, DIAPHRAGM OPERATED, WITH OVERRIDE. SMITH 0637 URINAL SUPPORT. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
WC-1	WATER CLOSET (ADA, WALL HUNG, FLUSH VALVE)	1	-.-	4	2	FIXTURE: SEAT: FLUSH VALVE: ACCESSORIES:	KOHLER K-4325 "KINGSTON" WALL MOUNTED, 1.28 GAL FLUSH, SIPHON JET, ELONGATED BOWL, 1-1/2" TOP SPUD, VITREOUS CHINA. KOHLER K-4670 "LUSTRA" COMMERCIAL TOILET SEAT, ADA, ELONGATED, WITH OPEN FRONT & CHECK HINGE. WITHOUT COVER. SLOAN ROYAL 111-ESS, HARD WIRED (PROVIDE SLOAN EL-154 TRANSFORMER), CHROME PLATED METAL HOUSING, DIAPHRAGM OPERATED, WITH OVERRIDE. SMITH 0210 (LEFT OR RIGHT) HORIZONTAL, OR SMITH 0230 VERTICAL ADJUSTABLE CARRIER WITH FOOT SUPPORT. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
WC-2	WATER CLOSET (ADA, FLOOR MOUNT, FLUSH VALVE)	1	-.-	4	2	FIXTURE: SEAT: ACCESSORIES:	KOHLER K-3979 "HIGHLINE" TANK TYPE, FLOOR MOUNTED, 1.6 GAL FLUSH, SIPHON JET, ELONGATED BOWL, VITREOUS CHINA. KOHLER K-4670 "LUSTRA" COMMERCIAL TOILET SEAT, ADA, ELONGATED, WITH OPEN FRONT & CHECK HINGE. WITHOUT COVER. CONTROLS TO BE MOUNTED ON OPEN SIDE OF FIXTURE. SPECIFY CORRECT SIDE OF TANK WHEN ORDERING.
WO-1	WALL OUTLET BOX	1/2	-.-	-.-	-.-	FIXTURE:	WATER-TITE W9700HA, LOCATE AT APPLICABLE APPLIANCE, SEE PLANS. WITH 1/4 TURN BALL VALVE, DUAL-CHECK BP WATTS SD-3

1. ALL UNDER GROUND WASTE AND VENT SHALL BE 2" OR GREATER PER DRAWINGS.

GAS FIRED WATER HEATER SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	SERVICE	INPUT LOAD (BTUH)	EFFICIENCY (%)	RECOVERY RATE @ 100 F DELTA T	FLUE SIZE (IN)	AIR INTAKE SIZE (IN)	HEIGHT/ WIDTH/ DEPTH (IN)	NOTES
DWH-1	A.O. SMITH BTH-150	DOMESTIC HOT WATER	150,000	98	178 GPH	4"Ø	4"	30/52/24	1,2,3,4

1. ROUTE CONDENSATE DRAIN TO NEAREST FLOOR DRAIN OR MOP SINK.
2. STORE WATER AT 140°F - MIXING VALVES LOCATED AT FIXTURE WHEN REQUIRED, SEE PLUMBING FIXTURE SCHEDULE.
3. PROVIDE WITH CONCENTRIC VENT KIT.
4. PROIVDE WITH CONDENSATE NEUTRALIZATION KIT.

DOMESTIC EXPANSION TANK SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID: WORKING FLUID	FLUID: MIN. TANK/ ACCEPTANCE (GAL)	TANK SIZE (GAL)	RELIEF VALVE (PSIG)	DIA./ HEIGHT (IN)	NPT FITTING (IN)	WEIGHT (LBS)	NOTES
DET-1	BELL AND GOSSETT PT-25V	MECHANICAL ROOM	BLADDER	WATER	10.3	10.3	120	12 / 18	0.75	120	1

1. TANK LINER SUITABLE FOR POTABLE WATER

DOMESTIC PUMP SCHEDULE

ID	MANUFACTURER AND MODEL NUMBER	LOCATION	TYPE	FLUID: FLOW RATE (GPM)	FLUID: WORKING FLUID	FLUID: HEAD LOSS (FT)	PUMP: CONSTRUCTION	ELECTRICAL: MOTOR SIZE (WATTS)	ELECTRICAL: MOTOR SPEED (RPM)	ELECTRICAL: VOLT/PH/HZ	ELECTRICAL: FLA	NOTES
RCP-1	BELL AND GOSSETT NBF-36	MECHANICAL ROOM	IN LINE	5	WATER	20	ALL BRONZE	270	3300	115/1/60	2.3	1,2

1. PROVIDE WITH DISCONNECT.
2. PROVIDE WITH AQUASTAT CONTROL SET AT 130° F.

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SEAL

MHTN PROJECT NO. 2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE

NO.	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
PLUMBING SCHEDULES

SHEET NUMBER
P601

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SYMBOLS LEGEND

SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
A5 / E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
A5 / E-201	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
A5 / E-201	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
ROOM NAME / 100	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
1	KEYNOTE INDICATOR.
1	REVISION INDICATOR.
CU-1	EQUIPMENT INDICATOR.
X-X / XMDP	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP" IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING
	BREAK, ROUND
MATCH LINE / SEE XX/X-XXX	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.
	NEW LINE: MEDIUM LINE.
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE
	EXISTING TO REMAIN LINE: THIN LINE.
	DEMOLITION LINE: DASHED, MEDIUM LINE
	PROPERTY LINE: DASHED, WIDE LINE.
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.
XXX / EF-X	ELECTRICAL EQUIPMENT INDICATOR. "XXX" INDICATES TYPE OF EQUIPMENT OR EQUIPMENT ID. "EF-X" IDENTIFIES MECHANICAL EQUIPMENT BEING SERVED. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
WIRING METHODS	
	WIRING.
A-1,3,5	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
	FLEXIBLE WIRING.
— X —	WIRING AND/OR RACEWAY: THIN LINE. WHERE "X" = : CATV = CABLE TELEVISION; CCTV = CLOSED CIRCUIT TELEVISION; FA = FIRE ALARM; FO = FIBER OPTICS; I = INTERCOM; NC = NURSE CALL; P = POWER; RC = RIGID CONDUIT; S = SOUND; T = TELEPHONE; TV = TELEVISION OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
1	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
HC	ADA ACCESS PUSH PLATE
	JUNCTION BOX.
SC	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.
SE	JUNCTION BOX, SECURITY SYSTEM. PROVIDE CONDUIT AND ROUGH-IN PER SECURITY DRAWINGS.
SP	JUNCTION BOX, SYSTEMS FURNITURE POWER CONNECTION.
PB	PULL BOX.
C C	CABLE TRAY ABOVE ACCESSIBLE CEILING.
W W	WIREWAY.
	EARTH GROUND (ONE-LINE DIAGRAM).
C	JUNCTION BOX, CEILING.
	LADDER RACK.
	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.
STRUCTURED CABLING	
X	TELEPHONE, WALL MOUNTED ("X" INDICATES QUANTITY OF CABLES).
	DATA CONNECTION: WIRELESS ACCESS POINT (WAP). REQUIRES (2) DATA DROPS PER DEVICE
X	OUTLET, DATA COMMUNICATION ("X" INDICATES QUANTITY OF CABLES).
	OUTLET, BUILDING STANDARD COMBINATION TELEPHONE/ DATA COMMUNICATION.
	TWO-WAY EMERGENCY COMMUNICATION DEVICE PER IBC, WALL MOUNTED IN RECESSED BOX.
	TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD PAINTED.
	LAN RACK, FLOOR STANDING.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
WIRING DEVICES	
	RECEPTACLE, DUPLEX: NEMA 5-20R.
A	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
C	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
DF	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLER RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION REQUIREMENTS.
WP	RECEPTACLE, DUPLEX, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, DUPLEX ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
WP	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX ON EMERGENCY POWER: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
	RECEPTACLE, SPECIAL PURPOSE ON EMERGENCY POWER. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
FB#	FLUSH FLOOR BOX. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
PT#	FLUSH FIRE RATED POKE THRU. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
X / $	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED).
X / $3	SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).
$WP	SWITCH, WEATHERPROOF.
LIGHTING (REFER TO FIXTURE SCHEDULE FOR SYMBOLS)	
(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
(W-3)	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.
EM	EMERGENCY.
↑	EGRESS DIRECTION ARROW (EXIT SIGNS).
	EXIT SIGN: SINGLE FACE; CEILING MOUNTED
	EXIT SIGN: SINGLE FACE; WALL MOUNTED
	EXIT SIGN: DOUBLE FACE; CEILING MOUNTED
	EXIT SIGN: DOUBLE FACE; WALL MOUNTED
LIGHTING CONTROL	
	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
R	OCCUPANCY SENSOR CONTROL RELAY.
	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
P	PHOTOCELL.
a,b / S	LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER "a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION AND PROGRAMMING REQUIREMENTS)
DC	DIGITAL LIGHTING DIMMING CONTROLLER
NR	LIGHTING NETWORK ROUTER.
RC	DIGITAL LIGHTING ROOM CONTROLLER
SM	LIGHTING NETWORK SEGMENT MANAGER
L X	LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE SCHEDULE / DIAGRAM.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
SITE ELECTRICAL AND COMMUNICATIONS UTILITIES	
	UTILITY POLE.
	UTILITY, DISTRIBUTION SWITCH OR SWITCHING STATION.
E	UTILITY, PRIMARY ELECTRICAL HAND HOLE.
C	UTILITY, COMMUNICATIONS MANHOLE.
E	UTILITY, ELECTRICAL MANHOLE.
H	HAND HOLE.
T	TRANSFORMER.
ELECTRICAL POWER AND DISTRIBUTION	
	FUSE WITH RATING (ONE-LINE DIAGRAM).
	DISCONNECT, FUSED (ONE-LINE DIAGRAM).
	DISCONNECT, NONFUSED (ONE-LINE DIAGRAM).
	DISCONNECT WITH FUSE AND MOTOR STARTER COMBINATION (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, MOLDED CASE (ONE-LINE DIAGRAM).
	CIRCUIT BREAKER, SOLID STATE (ONE-LINE DIAGRAM).
GFP	CIRCUIT BREAKER, SOLID STATE WITH GROUND FAULT PROTECTION (ONE-LINE DIAGRAM).
	MOTOR.
	TRANSFORMER (ONE-LINE DIAGRAM).
"1H"	PANELBOARD (ONE-LINE DIAGRAM).
225/3 "1H"	PANELBOARD WITH MAIN LUGS ONLY. BUS SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
225/3 "1H"	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
225/3 "1H" 60/3	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).
225/3 "1H" 25/3	PANELBOARD WITH MAIN LUGS ONLY AND SURGE PROTECTION WITH CIRCUIT BREAKER (ONE-LINE DIAGRAM).

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

1P	SINGLE POLE
1PH	SINGLE-PHASE
1WAY	ONE-WAY
2/C	TWO-CONDUCTOR
2WAY	TWO-WAY
3/C	THREE-CONDUCTOR
3WAY	THREE-WAY
4DUT	QUADRUPLE RECEPTACLE OUTLET
4PDT	FOUR-POLE DOUBLE THROW
4PST	FOUR-POLE SINGLE THROW
4W	FOUR-WIRE
4WAY	FOUR-WAY
A	ABOVE COUNTER
AC	ARMORED CABLE
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ALUM	ALUMINUM
AMP	AMPERE
ANN	ANNUNCIATOR
AP	ACCESS POINT (WIRELESS DATA)
AR	AS REQUIRED
ASC	AMPS SHORT CIRCUIT
ATS	AUTOMATIC TRANSFER SWITCH
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAGE
BB	BUCK-BOOST TRANSFORMER
XFMR	
C	CEILING MOUNTED
CATV	COMMUNITY ANTENNA TELEVISION
CB	CIRCUIT BREAKER
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT
CCTV	CLOSED CIRCUIT TELEVISION
CF/CI	CONTRACTOR FURNISHED/ CONTRACTOR INSTALLED
CF/OI	CONTRACTOR FURNISHED/ OWNER INSTALLED
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT
CKT	CIRCUIT
CM	CONSTRUCTION MANAGER
CND	CONDUIT
CO	CONVENIENCE OUTLET
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
CTV	CABLE TELEVISION
CU	COPPER
dBA	UNIT OF SOUND LEVEL
DPDT	DOUBLE POLE, DOUBLE THROW
DS	DISCONNECT SWITCH
EA	EACH
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
ENT	ELECTRIC NONMETALLIC TUBING
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
EX	EXISTING
F	FURNITURE MOUNTED
FA	FIRE ALARM
FCP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPS
FMC	FLEXIBLE METAL CONDUIT
FOB	FREIGHT ON BOARD
FVNR	FULL VOLTAGE NON-REVERSING
FVR	FULL VOLTAGE REVERSING
G	GROUND
GEN	GENERATOR
GFCI	GROUND FAULT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HD	HEAVY DUTY
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTOMATIC
HP	HORSE POWER
HPF	HIGH POWER FACTOR
HPS	HIGH PRESSURE SODIUM
HV	HIGH VOLTAGE
HZ	HERTZ
I/O	INPUT/ OUTPUT
IG	ISOLATED GROUND
IMC	INTERMEDIATE METAL CONDUIT
IN/IS	INSULATED/ ISOLATED
IR	INFRARED
J-BOX	JUNCTION BOX
KCP&L	KAYSVILLE CITY POWER & LIGHT
kV	KILOVOLT
kVA	KILOVOLT AMPERE
kVAR	KILOVOLT AMPERE REACTIVE
kW	KILOWATT
kWh	KILOWATT HOUR
LED	LIGHT EMITTING DIODE
LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
LPS	LOW PRESSURE SODIUM
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TELEVISION SYSTEM
MAX	MAXIMUM
MC	METAL CLAD
MCA	MINIMUM CIRCUIT AMPS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCP	MOTOR CIRCUIT PROTECTION
MDP	MAIN DISTRIBUTION PANEL
MG	MOTOR GENERATOR
MH	MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MOCP	MAXIMUM OVERCURRENT PROTECTION
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIOANL ELECTRICAL MANUFACTURERS ASSOCIATION
NFC	NATIONAL FIRE CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OCP	OVER CURRENT PROTECTION
OF/CI	OWNER FURNISHED/ CONTRACTOR INSTALLED
OF/OI	OWNER FURNISHED/ OWNER INSTALLED
OFP	OBTAIN FROM PLANS
OH DR	OVERHEAD (COILING) DOOR
OL	OVERLOAD
PB	PUSHBUTTON
PF	POWER FACTOR
PH	PHASE
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PTZ	PAN/TILT/ZOOM
QTY	QUANTITY
R	REMOVE
RCP	REFLECTED CEILING PLAN
RMC	RIGID METAL CONDUIT
RNC	RIGID NONMETAL CONDUIT
RPM	REVOLUTIONS PER MINUTE
RR	REMOVE AND RELOCATE
S/S	START/STOP
SCA	SHORT CIRCUIT AMPS
SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
SF	SQUARE FOOT (FEET)
SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
SPD	SURGE PROTECTIVE DEVICE
SPDT	SINGLE POLE, DOUBLE THROW
SPEC	SPECIFICATION
SPST	SINGLE POLE, SINGLE THROW
ST	SINGLE THROW
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TL	TWIST LOCK
TP	TELEPHONE POLE
TP	TWISTED PAIR
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
TYP	TYPICAL
UC	UNDER COUNTER
UF	UNDERFLOOR
UGND	UNDERGROUND
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPERE
VFC/VF D	VARIABLE FREQUENCY MOTOR CONTROLLER
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
XFMR	TRANSFORMER

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

GENERAL ELECTRICAL NOTES

1. CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.

2. OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
   A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
   B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
   C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.

3. EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.

4. SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.

5. REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

6. ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

SITE COORDINATION

THE LOCATION, CAPACITY, AND VOLTAGE OF THE LINES ARE ALL IN ACCORDANCE WITH DATA GIVEN THIS OFFICE BY THE UTILITY COMPANY. COORDINATE WITH THE LOCAL UTILITY COMPANY FOR THE INSTALLATION OF THE ELECTRICAL SERVICE. COMPLY WITH UTILITY REGULATIONS. REPORT DISCREPANCIES TO THE ENGINEER.

ELECTRIC UTILITY

KAYSVILLE CITY POWER & LIGHT
721 W OLD MILL LANE
KAYSVILLE, UT 84037

PERSON CONTACTED: GARY HATCH
DATE: 2/15/19
PHONE NUMBER: 801-544-8925
EMAIL: GHATCH@KAYSVILLECITY.COM

TELEPHONE UTILITY

CENTURYLINK

PERSON CONTACTED: -
DATE: -
PHONE NUMBER: -
EMAIL: -

CABLE UTILITY

AT&T BROADBAND SERVICES
ADDRESS
CITY, STATE, ZIP

PERSON CONTACTED: -
DATE: -
PHONE NUMBER: -
EMAIL: -

ELECTRICAL SHEET INDEX

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EE502	ELECTRICAL DETAILS
EE503	ELECTRICAL DETAILS
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ED100	SITE ELECTRICAL DEMOLITION PLAN
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EL605	LIGHTING CONTROL SCHEDULES
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ET601	TELECOM CONDUIT AND CABLE RISER DIAGRAM
EY101	LEVEL 1 AUXILIARY PLAN
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EJ001	AUDIO VISUAL ROUGH-IN SCHEDULES AND NOTES
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FA601	FIRE ALARM RISER
TA001	AUDIO VISUAL SYSTEMS SCHEDULES AND NOTES
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TA701	AUDIO VISUAL SYSTEMS CONNECTION PANEL DETAILS
TA702	AUDIO VISUAL SYSTEMS CONNECTION PANEL DETAILS

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LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Hawksamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO △	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES

SHEET NUMBER
EE001

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SYMBOLS LEGEND

SYMBOL	DESCRIPTION
ELECTRICAL POWER AND DISTRIBUTION	
CT	CT CABINET PER UTILITY'S REQUIREMENTS (ONE-LINE DIAGRAM).
	TRANSFER SWITCH (ONE-LINE DIAGRAM).
DMM	DIGITAL MULTIMETER (ONE-LINE DIAGRAM).
	SERVICE ENTRANCE SURGE PROTECTION (ONE-LINE DIAGRAM).
G	GENERATOR, POWER (ONE-LINE DIAGRAM).
M	METER.
VFC VFD	VARIABLE FREQUENCY MOTOR CONTROLLER (ONE-LINE DIAGRAM).
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	STARTER OR MOTOR CONTROLLER.
	PUSHBUTTON.
	PUSHBUTTONS, MOTOR CONTROL.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
DP#__	DISTRIBUTION PANEL OR SWITCHBOARD.
LP	LIGHTING RELAY, CONTACTOR PANEL, OR DIMMING ENCLOSURE.
$ST	SWITCH, TOGGLE MOTOR STARTER WITH OVERLOAD PROTECTION.
75	TRANSFORMER: NUMBER INDICATES kVA.
	SWITCH, SINGLE BREAK (ONE-LINE DIAGRAM).
HC	ACCESSIBLE DOOR ENTRY PUSH PLATE OPERATOR.
FIRE ALARM	
FSA	FIRE SYSTEM ANNUNCIATOR.
FCP	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
FPS	FIRE ALARM NOTIFICATION POWER SUPPLY.
CM	CONTROL MODULE.
MM	MONITOR MODULE.
P	FIRE ALARM MANUAL PULL STATION.
R	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
	MAGNETIC DOOR HOLDER.
	DETECTOR, SMOKE.
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
	DETECTOR, HEAT.
	STROBE.
75	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
WP	ALARM, HORN/SPEAKER, WEATHERPROOF.
	ALARM, HORN/STROBE, ONE ASSEMBLY.
75	ALARM, HORN/STROBE, ONE ASSEMBLY. SUBSCRIPT INDICATES CANDELA RATING.
	DETECTOR, FLOW SWITCH: FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
	DETECTOR, TAMPER SWITCH WITH VALVE: TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
SD	SMOKE DAMPER.
FSD	FIRE AND SMOKE DAMPER.
CO	DETECTOR, CARBON MONOXIDE.
75	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
75	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
75	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
TECHNOLOGY SYSTEMS	
X	TECHNOLOGY SYSTEM CABLE. SEE SPECIFIC JOB EQUIPMENT LIST FOR APPLICABLE DESIGNATIONS. EXAMPLES: C = CONTROL CABLE G = GROUND CABLE, 10 AWG, 1 CONDUCTOR, GREEN INSULATED M = MICROPHONE CABLE S = SPEAKER CABLE, 70 VOLT SYSTEM Z = SPEAKER CABLE, 8 OHM SYSTEM
S#	SPEAKER, CEILING MOUNTED.
S#	SPEAKER, WALL MOUNTED.
SH	HORN.
SM	SPEAKER, MASKING.
	EQUIPMENT CABINET.
	MEDIA CONNECTION PLATE.
	AUDIO/VISUAL OUTLET.
	SCREEN, PROJECTION, CEILING MOUNTED.
	PROJECTOR, CEILING MOUNTED.
V	VIDEO CONFERENCING CAMERA.
CP	CONTROL PANEL.
M	MICROPHONE INPUT.
M	VIDEO MONITOR.
ADA	AUDIO DISTRIBUTION AMPLIFIER.
EP	ASSISTED LISTENING EMITTER PANEL.
RM	REMOTE CONTROL PANEL.
	MICROPHONE, HANDHELD (ONE-LINE DIAGRAM).
IR	INFRARED SENSOR.
CCTV	
CCTV	CCTV HEADEND EQUIPMENT.
M	CCTV MONITOR.
	CCTV CAMERA/ENCLOSURE WITH LENS, TYPICAL. SEE SCHEDULE.
PTZ	CCTV CAMERA WITH PAN, TILT AND ZOOM.
360°	PANNING CAMERA TRANSVERSE ANGLE.
SECURITY	
ACC	ACCESS CONTROL HEADEND EQUIPMENT.
CR	CARD READER.
KCR	KEYPAD/CARD READER COMBINATION.
ER	EXIT REQUEST.
RL	REMOTE DOOR RELEASE BUTTON.
IR	PASSIVE INFRARED SENSOR.

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LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Havekamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

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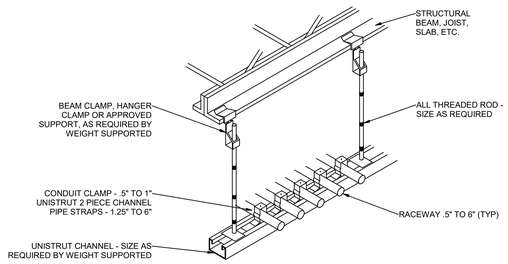
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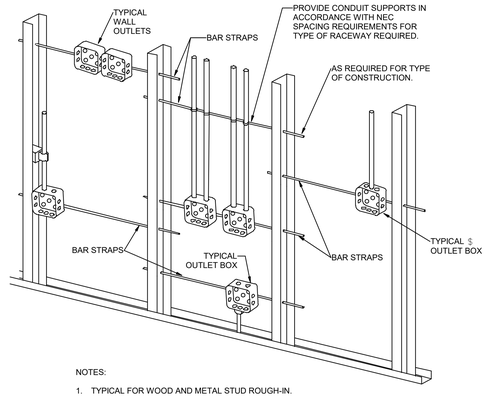
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SYMBOLS LEGEND

SHEET NUMBER
EE002

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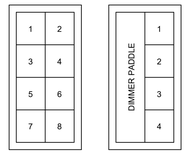
B1 TYPICAL CONDUIT RACK DETAIL
SCALE: NTS



NOTES:

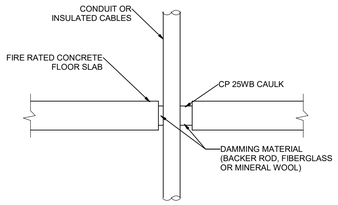
1. TYPICAL FOR WOOD AND METAL STUD ROUGH-IN.
2. PLASTER RINGS NOT SHOWN.
3. LOCATE ALL OUTLET BOXES IN ACCORDANCE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS AND WITH ALL APPLICABLE SHOP DRAWINGS.
4. IN ACCORDANCE WITH IBC 714.3.2 EXCEPTION 1, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS IN THE SAME STUD SPACE IN A RATED FIRE SEPARATION WALL MUST BE SEPARATED BY A MINIMUM OF 24" HORIZONTAL DISTANCE OR LISTED, SOUND AND FIRE RATED PUTTY PADS SHALL BE USED ON THE OUTLET BOXES.
5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

D1 TYPICAL ROUGH-IN REQUIREMENTS DETAIL
SCALE: NTS

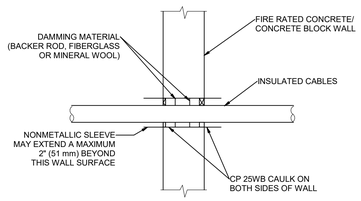


TYPICAL WALL STATION CONFIGURATION

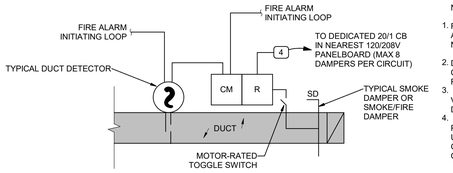
A3 TYPICAL WALL STATIONS LAYOUTS
SCALE: NTS



B3 TYPICAL FIRE STOP FOR CABLES/CONDUIT THROUGH CONCRETE FLOORING
SCALE: NTS



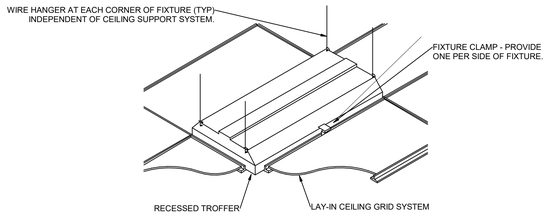
D3 TYPICAL FIRE STOP FOR CABLES/CONDUIT THROUGH CONCRETE WALLS
SCALE: NTS



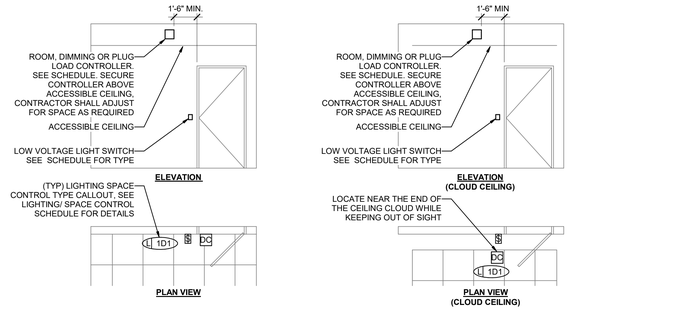
NOTES:

1. FOR EACH SMOKE DAMPER SHOWN ON PLANS, PROVIDE ALL DEVICES AND WIRING PER THIS DETAIL. THESE ARE NOT SHOWN ON PLANS FOR LEGIBILITY PURPOSES.
2. DUCT DETECTOR WITHIN 5' OF EVERY SMOKE DAMPER TO CLOSE DAMPER UPON ACTIVATION PER IMC REQUIREMENTS.
3. VERIFY QUANTITY AND LOCATIONS OF ALL SMOKE DAMPERS WITH THE HVAC INSTALLER.
4. PROVIDE ONE CONTROL MODULE PER SMOKE DAMPER, UNLESS THE REQUIRED CONTROL SEQUENCE ALLOWS GROUPING OF DAMPERS, IN WHICH CASE EACH GROUPING OF DAMPERS MAY SHARE ONE CONTROL MODULE.

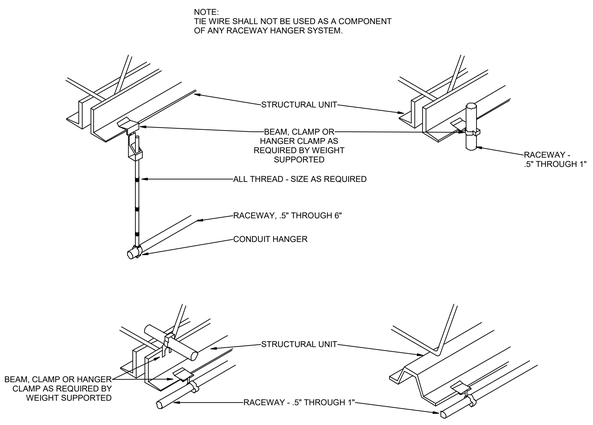
A4 TYPICAL SMOKE DAMPER FIRE ALARM DETAIL
SCALE: NTS



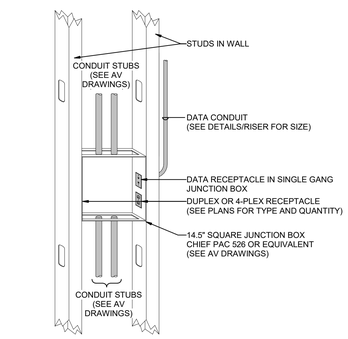
B4 RECESSED FIXTURE MOUNTING DETAIL
SCALE: NTS



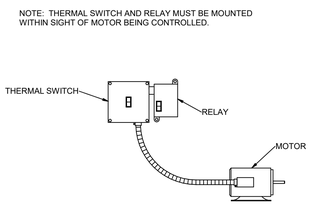
D4 TYPICAL ROOM CONTROLLER MOUNTING DETAILS
SCALE: NTS



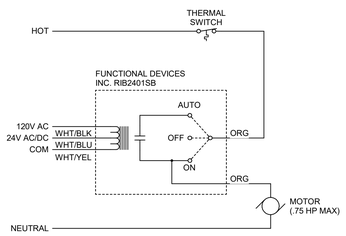
E1 TYPICAL RACEWAY SUPPORT METHODS DETAIL
SCALE: NTS



E3 TYPICAL FLAT PANEL RECEPTACLE ROUGH-IN DETAIL
SCALE: NTS



LAYOUT DIAGRAM



SCHEMATIC DIAGRAM

E4 120V FRACTIONAL MOTOR CONTROL
SCALE: NTS

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CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION
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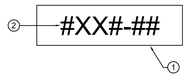
ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
ELECTRICAL DETAILS

SHEET NUMBER
EE501

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1. SWITCH AND RECEPTACLE LABEL TO BE PROVIDED AT EACH SWITCH OR RECEPTACLE. LABEL IS TO BE 1.5"W X .5"H. LABEL TO BE CLEAR WITH ADHESIVE ON THE BACK.
2. LETTERING IS TO BE .25" HIGH, CENTERED, AND FORMATTED AS SHOWN. FIRST SET OF SYSMBOLS CORRESPOND TO THE PANEL THE EQUIPMENT IS TIED TO, SEE TYPICAL PANELBOARD LABEL DETAIL. THIRD '#' IS TO IDENTIFY THE CIRCUIT BREAKER THE EQUIPMENT IS TIED TO.



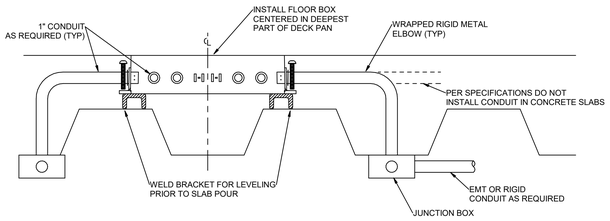
A2 TYPICAL SWITCH/ RECEPTACLE LABEL
SCALE: NTS

1. PANELBOARD LABEL TO BE PROVIDED AT EACH PANELBOARD. LABEL IS TO BE 1.5" X REQUIRED LENGTH X 1/16" LAMINATED 2-PLY PLASTIC LAMACOID. LETTERS SHALL BE FORMED BY ENGRAVING OUTER WHITE PLY, EXPOSING BLACK PLY BENEATH.
2. LABEL IS TO BE MOUNTED USING DOUBLE SIDED ADHESIVE TAPE COVERING THE BACK OF THE LABEL.
3. PROVIDE NAME OF SWITCHBOARD WITH BREAKER NUMBER AND DEVICE BEING FED FROM BREAKER/FUSE. LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS AS SEEN ON THE ONE-LINE DIAGRAM.

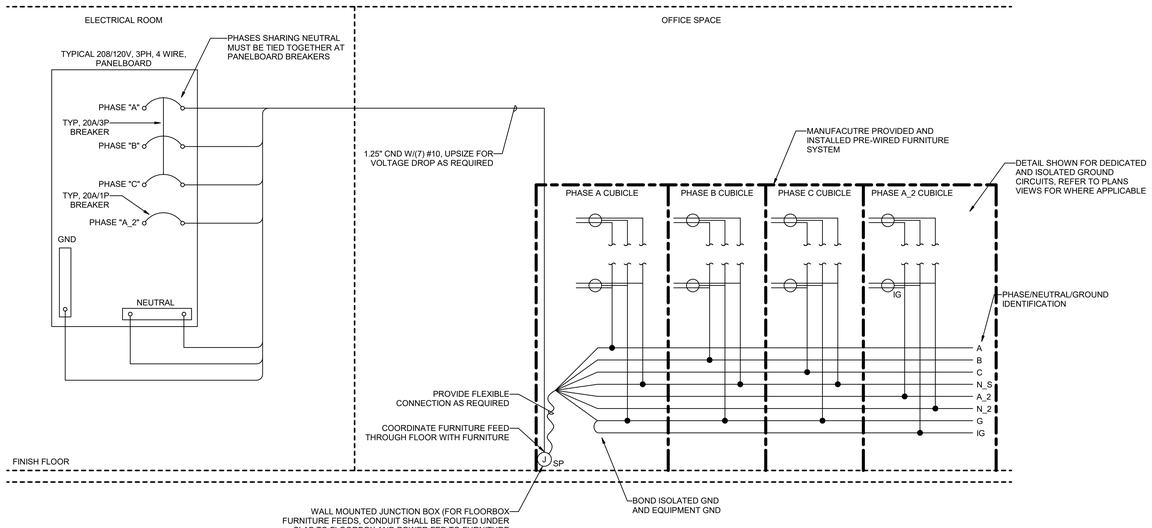


NOTE: LABELS SHALL BE PROVIDED ON PANELBOARD FOR EACH LOAD.

A3 TYPICAL PANELBOARD/ SWITCHBOARD LOAD LABEL
SCALE: NTS

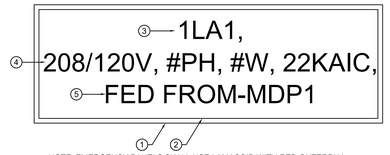


A4 TYPICAL FLOOR BOX IN CONCRETE SLAB
SCALE: NTS



C1 TYPICAL SYSTEMS FURNITURE 8-WIRE FEED RISER
SCALE: NTS

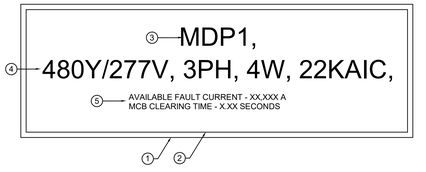
1. LABEL TO BE PROVIDED AT EACH SWITCHBOARD, PANELBOARD, DISCONNECT/STARTER. LABEL IS TO BE 3" X REQUIRED LENGTH X 1/16" LAMINATED 2-PLY PLASTIC LAMACOID. LETTERS SHALL BE FORMED BY ENGRAVING OUTER WHITE PLY, EXPOSING BLACK PLY BENEATH.
2. LABEL IS TO BE MOUNTED USING DOUBLE SIDED ADHESIVE TAPE COVERING THE BACK OF THE LABEL.
3. FIRST LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. REPLACE THE LETTER/NUMBER WITH THOSE FOUND ON THE ONE-LINE DIAGRAM.
4. SECOND LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. THE FOLLOWING SHALL BE PROVIDED, VOLTAGE, PHASE, NUMBER OF WIRES, AND AIC RATING OF DEVICE.
5. THIRD LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. PROVIDE "FED FROM-" AND REPLACE MDP1 WITH THE DEVICES NAME THAT FEEDS THE PANELBOARD.



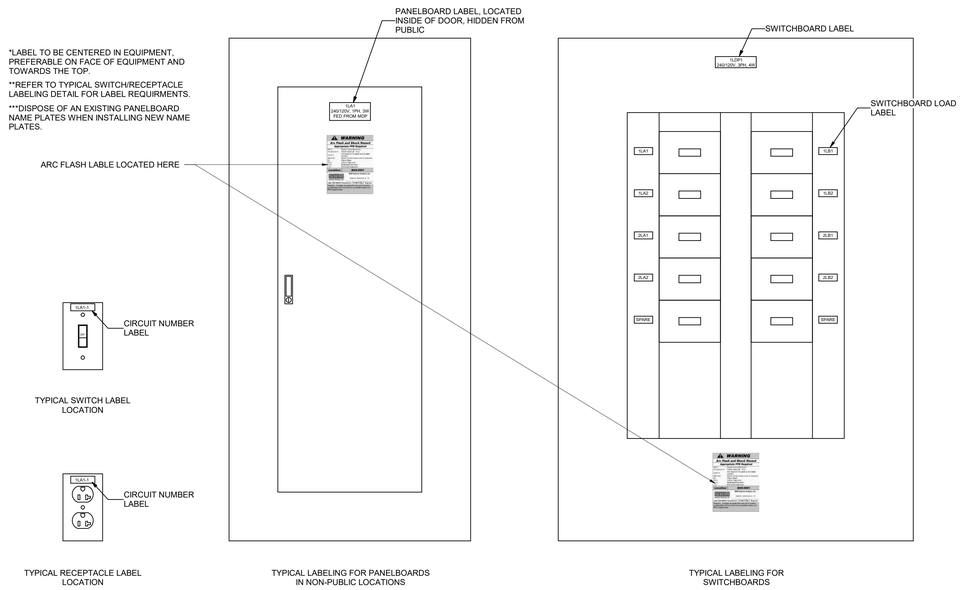
NOTE: EMERGENCY PANELS SHALL USE LAMACOID WITH RED OUTERPLY, EXPOSING WHITE LETTERING BENEATH. CONTRACTOR TO USE SAME LABEL SCHEME EXCEPT FIRST 'X' IS REPLACED WITH 'E' FOR EMERGENCY. SECOND 'X' TO BE 'L' FOR LOW OR 'H' FOR HIGH VOLTAGE (480/277V). LAST '#' TO BE REPLACED WITH LETTER INDICATING LOCATION OF PANEL.

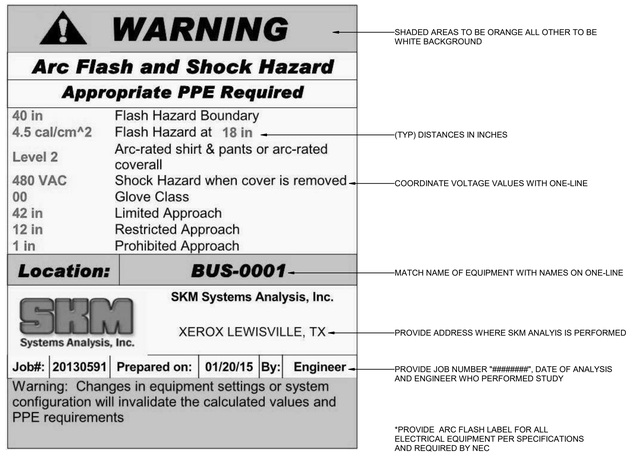
B4 TYPICAL PANELBOARD/SWITCHBOARD LABEL
SCALE: NTS

1. PLABEL TO BE PROVIDED THAT IS TO BE 4" X REQUIRED LENGTH X 1/16" LAMINATED 2-PLY PLASTIC LAMACOID. LETTERS SHALL BE FORMED BY ENGRAVING OUTER WHITE PLY, EXPOSING BLACK PLY BENEATH.
2. LABEL IS TO BE MOUNTED USING DOUBLE SIDED ADHESIVE TAPE COVERING THE BACK OF THE LABEL.
3. FIRST LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, WITH THE EQUIPMENT ID MATCHING PLANS.
4. SECOND LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. THE FOLLOWING SHALL BE PROVIDED, VOLTAGE, PHASE, NUMBER OF WIRES, AND AIC RATING OF GEAR.
5. THIRD & FOURTH LINE: LETTERING IS TO BE 3/8" HIGH, CENTERED, AND FORMATTED AS SHOWN. LABEL WITH ACTUAL AVAILABLE FAULT CURRENT AND ASSOCIATED CLEARING TIME.



C4 TYPICAL MAIN SERVICE EQUIPMENT/GEAR LABEL
SCALE: NTS





E1 TYPICAL ARC FLASH LABEL
SCALE: NTS

E3 TYPICAL SWITCH, RECEPTACLE AND PANELBOARD LABELING LOCATION DETAIL
SCALE: NTS

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LICENSED PROFESSIONAL ENGINEER
No. 10221129-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

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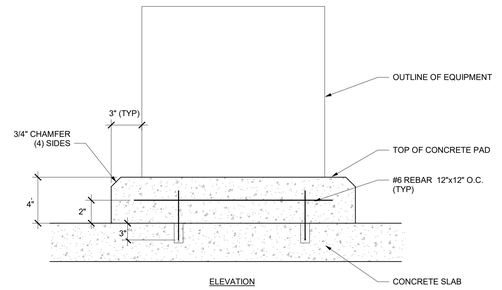
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CONFORMANCE SET
28 AUGUST 2019

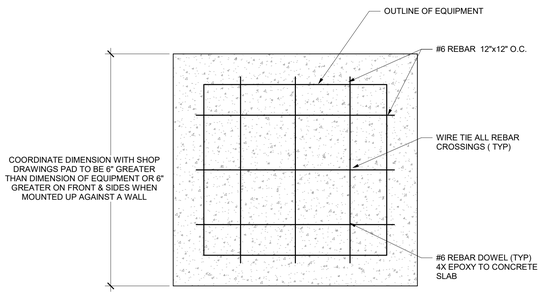
SHEET NAME
ELECTRICAL DETAILS

SHEET NUMBER
EE502

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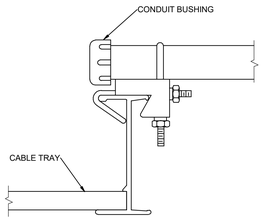
ELEVATION



PLAN VIEW

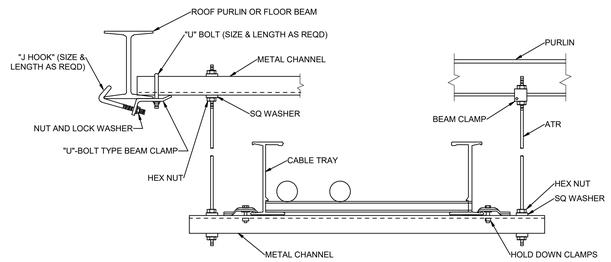
D4 TYPICAL CONCRETE HOUSEKEPING PAD DETAIL

SCALE: NTS



E3 CONDUIT TO TRAY ADAPTER

SCALE: NTS



E4 TYPICAL INDOOR CABLE TRAY MOUNTING DETAIL

SCALE: NTS

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LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

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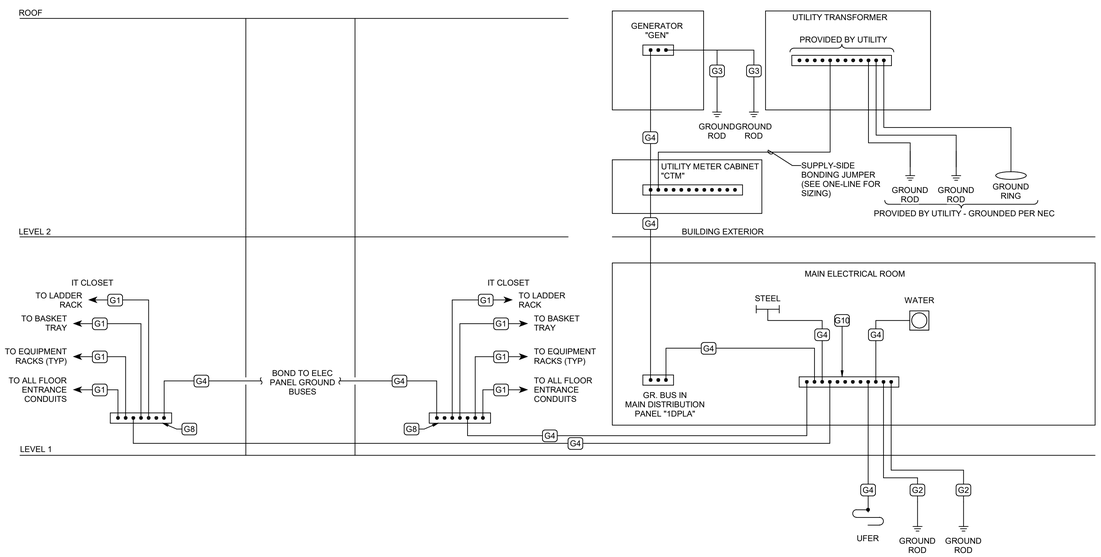
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CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
ELECTRICAL DETAILS

SHEET NUMBER
EE503

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G#	GROUNDING SCHEDULE
ALL CONDUCTORS ARE INSULATED UNLESS INDICATED OTHERWISE.	
SYMBOL	**SIZE / DESCRIPTION**
G1	#6 CU.
G2	#4 CU.
G3	#2 CU.
G4	#4/0 CU.
G8	12"X2"X1/4" COPPER BUS WITH PRE-DRILLED HOLES MOUNTED ON INSULATORS IN ELECTRICAL & TELECOMM CLOSETS. PART #: TMGB/TGB TYP.
G10	16"X4"X1/4" COPPER BUS WITH PRE-DRILLED HOLES MOUNTED ON INSULATORS. PART #: TMGB



E3 GROUNDING RISER DIAGRAM
SCALE: NTS

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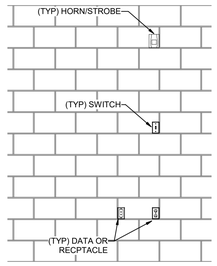
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CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
GROUNDING RISER DIAGRAM AND DETAILS

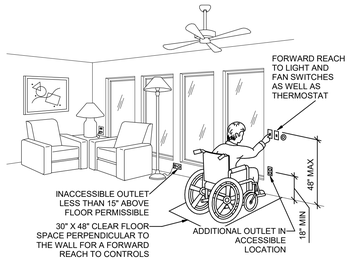
SHEET NUMBER
EE601



NOTE: ALL DEVICES SHALL BE INSTALLED AND LOCATED IN THE BLOCK CONSISENTLY THROUGH OUT THE BUILDING.

CMU DEVICE MOUNTING ALIGNMENT DETAIL

A1 SCALE: NTS



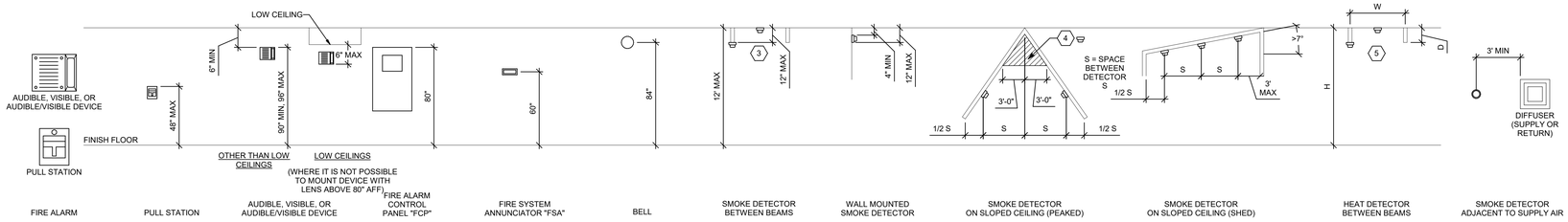
ADA DETAIL

B1 SCALE: NTS

WALL MOUNTED LIGHT FIXTURE | PENDANT LIGHT FIXTURE | PENDANT EXIT SIGNS

C1 LIGHTING MOUNTING DETAILS

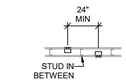
SCALE: NTS



FIRE ALARM | PULL STATION | AUDIBLE, VISIBLE, OR AUDIBLE/VISIBLE DEVICE | FIRE ALARM CONTROL PANEL "FCP" | FIRE SYSTEM ANNUNCIATOR "FSA" | BELL | SMOKE DETECTOR BETWEEN BEAMS | WALL MOUNTED SMOKE DETECTOR | SMOKE DETECTOR ON SLOPED CEILING (PEAKED) | SMOKE DETECTOR ON SLOPED CEILING (SHED) | HEAT DETECTOR BETWEEN BEAMS | SMOKE DETECTOR ADJACENT TO SUPPLY AIR

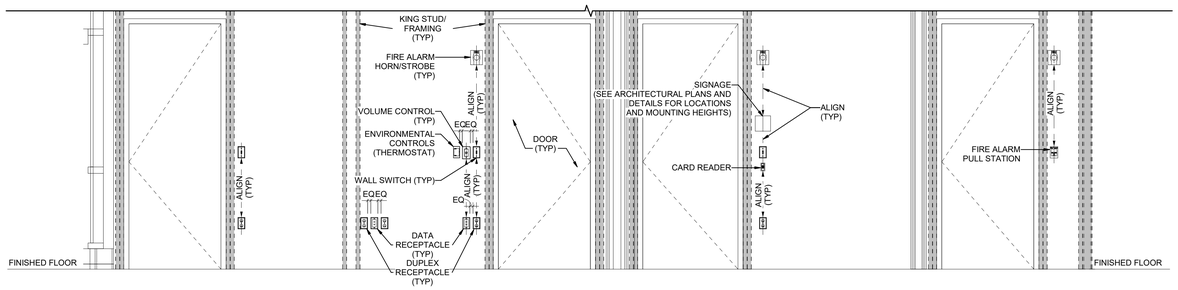
D1 FIRE ALARM MOUNTING DETAILS

SCALE: NTS



FOR LESS THAN 24" SEPERATION, PROVIDE LISTED SOUND AND FIRE PUTTY PADS

BOXES ON OPPOSITE SIDES OF WALL

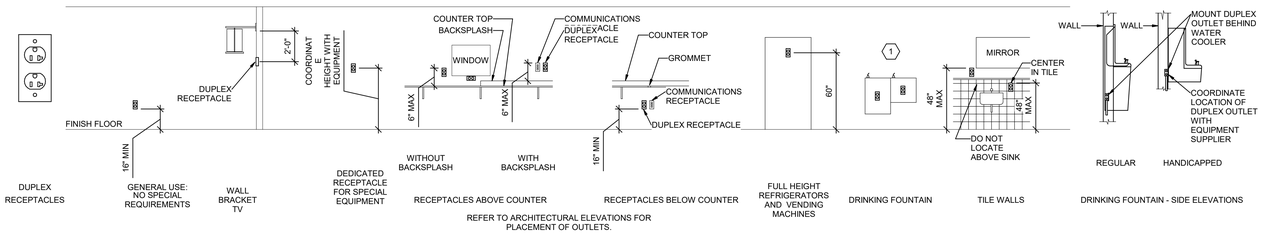


E1 BOX MOUNTING DETAILS

SCALE: NTS

E2 TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL

SCALE: NTS

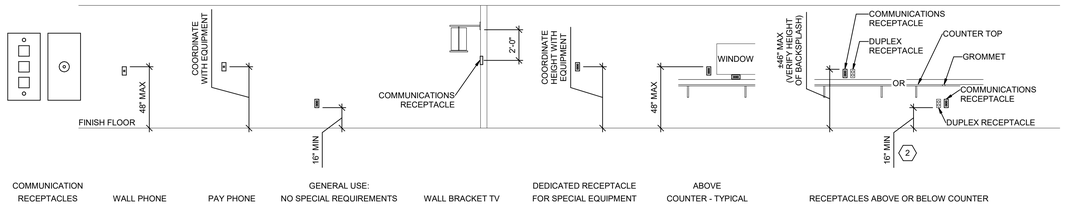


DUPLEX RECEPTACLES | GENERAL USE: NO SPECIAL REQUIREMENTS | WALL BRACKET TV | DEDICATED RECEPTACLE FOR SPECIAL EQUIPMENT | WITHOUT BACKSPLASH | WITH BACKSPLASH | RECEPTACLES ABOVE COUNTER | RECEPTACLES BELOW COUNTER | FULL HEIGHT REFRIGERATORS AND VENDING MACHINES | DRINKING FOUNTAIN | TILE WALLS | REGULAR | HANDICAPPED | DRINKING FOUNTAIN - SIDE ELEVATIONS

REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.

B2 SWITCH MOUNTING DETAILS

SCALE: NTS



SWITCHES | STANDARD DOOR | DOOR WITH SIDELIGHT LESS THAN 2' | DOOR WITH SIDELIGHT GREATER THAN 2' | DOOR WITH NO PLACE FOR SWITCH AT LATCH SIDE | GENERAL USE: ADA | COMBINATION 48" MAX PLATE FOR SWITCH AND RECEPTACLE IN RESIDENTIAL BATHROOM | LIGHTING CONTROL STATION

C2 COMMUNICATIONS MOUNTING DETAILS

SCALE: NTS

COMMUNICATION RECEPTACLES | WALL PHONE | PAY PHONE | GENERAL USE: NO SPECIAL REQUIREMENTS | WALL BRACKET TV | DEDICATED RECEPTACLE FOR SPECIAL EQUIPMENT | ABOVE COUNTER - TYPICAL | RECEPTACLES ABOVE OR BELOW COUNTER

GENERAL SHEET NOTES

1. DETERMINE MOUNTING HEIGHTS OF ELECTRICAL AND ELECTRONIC EQUIPMENT IN THE FOLLOWING ORDER OF PRIORITY:

   1 - ELEVATIONS (ARCHITECTURAL, ELECTRICAL, MECHANICAL, ETC).

   2 - EQUIPMENT SHOP DRAWINGS.

   3 - FIELD INSTRUCTIONS.

2. LOCATE RECEPTACLES SERVING THE SAME TYPE OF USE AT A UNIFORM HEIGHT UNLESS DIRECTED OTHERWISE.
3. MECHANICAL, ELECTRICAL, AND COMMUNICATION ROOMS: COORDINATE LOCATION OF LIGHTING AND POWER RECEPTACLES WITH EQUIPMENT, PIPING, AND DUCTWORK. DO NOT INSTALL RECEPTACLES BEHIND EQUIPMENT OR WHERE OTHERWISE INACCESSIBLE. POSITION LIGHTING REGARDLESS OF WHERE SHOWN ON DRAWING TO PROVIDE PROPER ILLUMINATION.
4. MOUNT RECEPTACLE BOXES FOR SWITCHES AND RECEPTACLES WITH LONG AXIS OF THE DEVICE VERTICAL UNLESS OTHERWISE INDICATED.
5. SET BOXES WITH PLASTER RINGS FLUSH WITH FINISHED SURFACE.
6. LOCATE BOX COVERS OR DEVICE PLATES SO THEY WILL NOT SPAN DIFFERENT TYPES OF BUILDING FINISHES EITHER VERTICALLY OR HORIZONTALLY.
7. VERIFY ALL DOOR CONDITIONS ON ARCHITECTURAL DRAWINGS PRIOR TO INSTALLING SWITCHES.
8. LOCATE WIREING DEVICES WHICH ARE ADJACENT AND ARE COMPATIBLE VOLTAGES IN ONE PLATE.
9. WHERE DEVICES ARE LOCATED IN CLOSE PROXIMITY OF THE SAME VERTICAL PLANE, ALIGN DEVICES VERTICALLY PER THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL, UNLESS OTHERWISE INDICATED.

SHEET KEYNOTES

1. LOCATE RECEPTACLES BEHIND DRINKING FOUNTAINS.
2. REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.
3. LOCATE AT BOTTOM OF BEAMS (OR JOISTS) OR AT CEILING. (REDUCE SPACING BY .5 PERPENDICULAR TO BEAM OR JOIST DIRECTION.) FOR OTHER CONDITIONS, REFER TO NFPA 72.
4. LOCATE DETECTOR ANYWHERE IN SHADED AREA BUT NOT IN TOP 4" OF PEAK.
5. LOCATE AT BOTTOM OF BEAMS IF D/H < .1 OR W/H < .4; OTHERWISE, LOCATE IN BEAM POCKET. FOR D > 4 REDUCE SPACING .33 PERPENDICULAR TO BEAMS.

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MHTN PROJECT NO. PROJ #2018576

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REVISIONS
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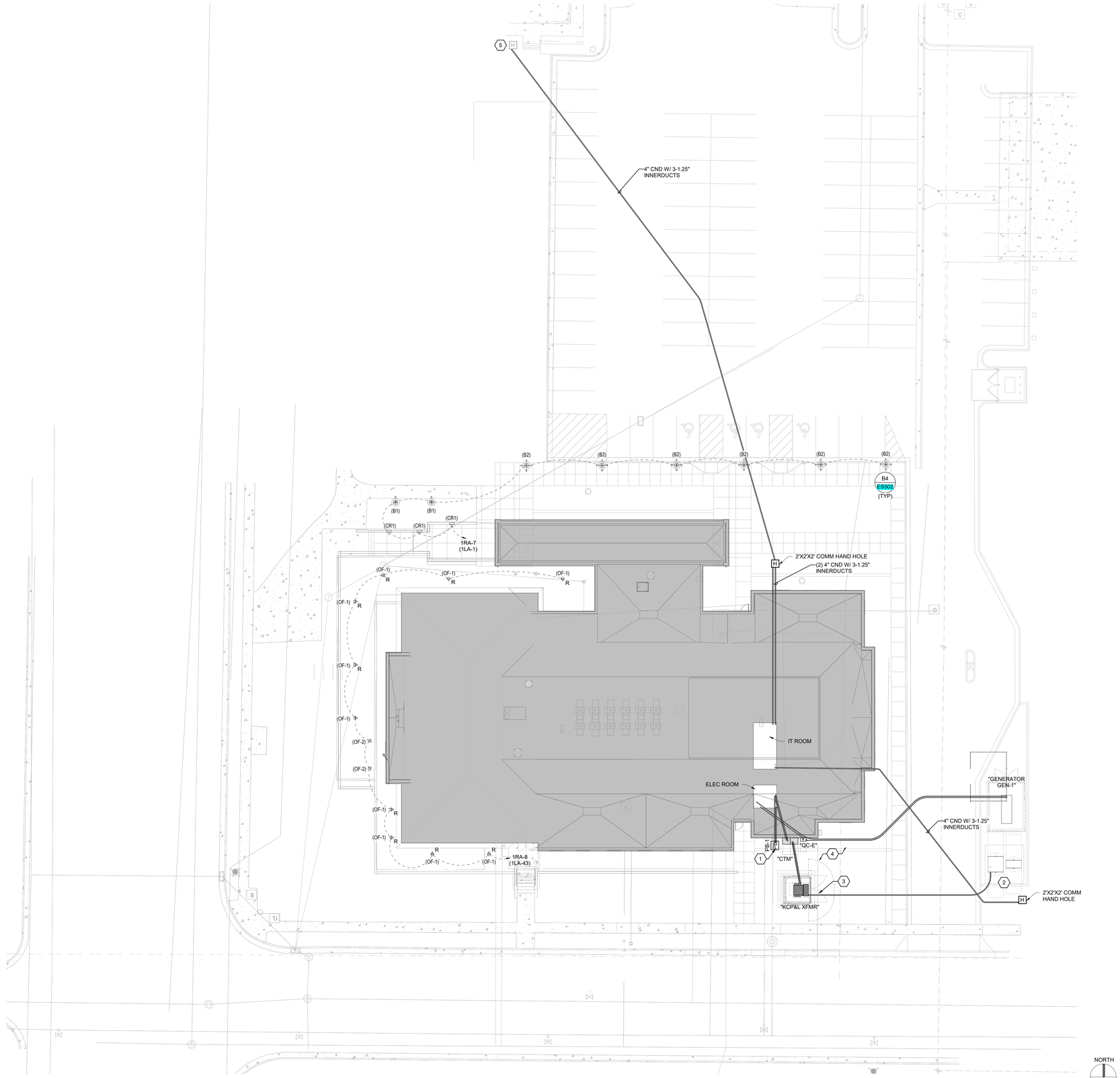
NO.	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
TYPICAL MOUNTING HEIGHT DETAILS

SHEET NUMBER
EE701

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E1 SITE ELECTRICAL PLAN
SCALE: 1/16" = 1'-0"

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8/16/2019 9:04:03 AM

GENERAL SHEET NOTES

1 COORDINATE WITH PLUMBING INSTALLER ON EXACT LOCATIONS, DEPTHS AND SLOPES OF PLUMBING PIPE PRIOR TO ROUGH-IN/TRENCHING.

2 COORDINATE LOCATIONS, SIZES, DEPTHS, ETC. OF ALL STRUCTURAL FOUNDATIONS, FOOTINGS, WALLS, ETC. WITH STRUCTURAL INSTALLER PRIOR TO ROUGH-IN/TRENCHING.

3 COORDINATE LOCATIONS AND DIMENSIONS OF CONDUIT BLOCKOUTS WITH STRUCTURAL INSTALLER PRIOR TO ROUGH-IN.

4 CONTRACTOR SHALL POTHOLE AND FIELD LOCATE ALL EXISTING UTILITY CROSSINGS THAT OCCUR FOR THE UNDERGROUND ELECTRICAL WORK SHOWN PRIOR TO EXCAVATION.

5 CONTRACTOR SHALL SLEEVE FOUNDATION WALLS FOR ALL CONDUIT PENETRATIONS THROUGH WALL. REFER TO SPECIFICATIONS FOR SLEEVE DETAILED REQUIREMENTS.

6 CONTRACTOR SHALL COORDINATE ALL UNDERGROUND CONDUIT AND DUCTBANK WORK WITH UTILITY (KCPL) TO ENSURE ALL REQUIREMENTS ARE MET.

7 ALL UNDERGROUND CONDUIT BENDS SHALL BE LONG SWEEP FACTORY ELBOWS.

8 CONTRACTOR TO REPAIR TRENCHING UPON COMPLETION OF WORK TO MATCH PREVIOUS EXISTING CONDITIONS.

9 DEVICES MARKED "R" ARE DEVICES REMOVED DURING DEMOLITION AND ARE TO BE RELOCATED PER NEW PLANS.

SHEET KEYNOTES

1 SPARE CONDUITS FOR FUTURE USE. FUTURE PV DISCONNECT LOCATION NEAR BUILDING DISCONNECT.

2 CONDUIT SHALL BE STUBBED INTO MEDIUM VOLTAGE SWITCH PER KCP&L REQUIREMENTS.

3 UTILITY CROSSINGS IN THIS LOCATION. CONTRACTOR SHALL ADJUST DEPTH OF CONDUIT TO MEET KAYSVILLE CITY POWER CLEARANCE REQUIREMENTS.

4 UTILITY CROSSINGS IN THIS AREA. CONTRACTOR SHALL ADJUST DEPTH OF CONDUIT RUNS BASED ON CLEARANCES REQUIRED BY DETAILS AND UTILITY.

5 TIE NEW 4" CONDUIT INTO EXISTING COMMUNICATION HANDHOLE LOCATED NEAR THE STAIRCASE AT THE POLICE STATION IN THE LANDSCAPE AREA FOR FIBER SERVICE FROM POLICE STATION. FIBER SHALL BE ROUTED FROM LIU/SERVICE RACK INSIDE OF POLICE STATION THROUGH EXISTING CONDUIT RACEWAY IN EXISTING COMMUNICATION HANDHOLE.

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KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

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LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

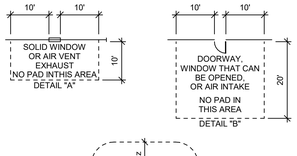
REVISIONS
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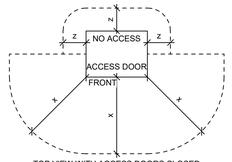
NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1
2	06-28-2019	ADDENDUM 2

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
ELECTRICAL SITE PLAN

SHEET NUMBER
ES101





TOP VIEW WITH ACCESS DOORS CLOSED
DETAIL "C"

MINIMUM DISTANCE REQUIRED FROM PAD:

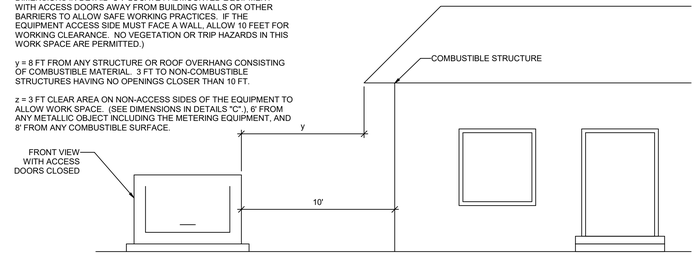
x = 10 FT. CLEAR AREA IN FRONT OF ANY EQUIPMENT ACCESS DOOR OR OPENING TO ALLOW THE USE OF HOT STICKS. (SEE DIMENSIONS IN DETAIL "C". LOCATE PADMOUNTED EQUIPMENT WITH ACCESS DOORS AWAY FROM BUILDING WALLS OR OTHER BARRIERS TO ALLOW SAFE WORKING PRACTICES. IF THE EQUIPMENT ACCESS SIDE MUST FACE A WALL, ALLOW 10 FEET FOR WORKING CLEARANCE. NO VEGETATION OR TRIP HAZARDS IN THIS WORK SPACE ARE PERMITTED.)

y = 8 FT FROM ANY STRUCTURE OR ROOF OVERHANG CONSISTING OF COMBUSTIBLE MATERIAL. 3 FT TO NON-COMBUSTIBLE STRUCTURES HAVING NO OPENINGS CLOSER THAN 10 FT.

z = 3 FT CLEAR AREA ON NON-ACCESS SIDES OF THE EQUIPMENT TO ALLOW WORK SPACE. (SEE DIMENSIONS IN DETAILS "C".), 6' FROM ANY METALLIC OBJECT INCLUDING THE METERING EQUIPMENT, AND 8' FROM ANY COMBUSTIBLE SURFACE.

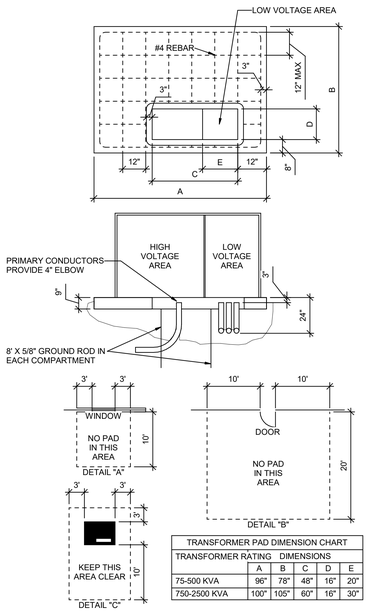
CLEARANCE GENERAL NOTES:

1. CLEARANCES: THE FRONT OF THE PAD SHOULD ALWAYS FACE AWAY FROM ADJACENT STRUCTURES AND BE FREE OF OBSTRUCTIONS. AT LEAST 3 FEET MUST SEPARATE THE EDGES OF THE PAD FROM ANY ADJACENT STRUCTURE. THE EDGES OF THE PAD MUST BE AT LEAST 10 FEET FROM ANY COMBUSTIBLE STRUCTURE. IF AN ADJACENT STRUCTURE HAS ANY OVERHANG OR EAVE WITHIN 27 VERTICAL FEET OF THE TOP OF THE PAD, CLEARANCES MUST BE MEASURED FROM THE OUTSIDE OF THE OVERHANG. THE PAD MUST NOT BE PLACED IN AN AREA 10 FEET IN LINE WITH OR 10 FEET TO EITHER SIDE OF ANY WINDOW IN AN ADJACENT STRUCTURE (SEE DETAIL "A"). CLEARANCE FOR A DOOR MUST BE 20 FEET IN LINE WITH IT AND 10 FEET ON THE SIDES (SEE DETAIL "B"). PADS MUST NOT BE PLACED WITHIN 15 FEET OF ANY VALVE OR WITHIN 25 FEET OF ANY PLUMBING OR STORAGE FACILITY CONTAINING FLAMMABLE MATERIAL. NO WALLS, FENCES, OR ANY OTHER OBSTRUCTIONS WILL BE PLACED WITHIN 3 FEET OF THE SIDES OR BACK OF THE PAD, OR WITHIN 10 FEET OF THE FRONT OF THE PAD (SEE DETAIL "C"). THE AREA IN FRONT OF THE PAD MUST HAVE 10 FEET OF CLEAR, LEVEL WORKING AREA FOR MAINTENANCE OF THE TRANSFORMER. THE PAD MAY NOT BE PLACED IN LINE WITH AN AIR INTAKE WITHIN 32 VERTICAL FEET OF THE SURFACE PAD. ALSO VERTICALLY, IT MUST NOT BE PLACED WITHIN 12 FEET OF A DOOR OR WINDOW. VAULTS SHALL BE LOCATED WITHIN 15 FEET OF A GRAVELED OR PAVED SURFACE SUITABLE FOR INCIDENTAL HEAVY TRUCK ACCESS.
2. BARRIERS: IF THE TRANSFORMER PAD IS TO BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC, (PARKING LOTS, DRIVEWAYS, ETC) CONTACT ROCKY MOUNTAIN POWER FOR PROTECTIVE BARRIER REQUIREMENTS.
3. IF THE TRANSFORMER WILL NOT COVER THE CABLE OPENINGS ON THESE STANDARD PADS, SEAL THE SIDES OF THE CABLE OPENING TO FIT THE TRANSFORMER USING SACKRETE OR COMPARABLE.



C3 TRANSFORMER CLEARANCE DETAIL

SCALE: NTS



TRANSFORMER PAD DIMENSION CHART					
TRANSFORMER RATING	DIMENSIONS				
	A	B	C	D	E
75-500 KVA	96"	78"	48"	16"	20"
750-2500 KVA	100"	105"	60"	16"	30"

CONTRACTOR GENERAL NOTES:

1. SITE PREPARATION. ALL SOIL BENEATH THE PAD SITE MUST BE COMPACTED AND LEVEL PRIOR TO SETTING OR POURING THE PAD TO PREVENT SETTLING.
2. CONCRETE. STEEL REINFORCEMENT SHALL BE #4 BARS, PLACED ACCORDING TO THE DRAWING. THE PAD MUST BE POURED AT LEAST SEVEN FULL DAYS PRIOR TO SETTING THE TRANSFORMER. THE FINISHED SURFACE MUST BE COMPLETELY FLAT AND LEVEL. SEE STANDARD 73 036 FOR CONCRETE SPECIFICATIONS OR 5000 PSI, WHICHEVER IS GREATER.
3. PREFABRICATION. THE PAD MAY EITHER BE CONSTRUCTED ON THE SITE OR PREFABRICATED ACCORDING TO SPECIFICATIONS.
4. CONDUIT WINDOW LAYOUT. LOW VOLTAGE CONDUITS SHALL BE FORMED AS TIGHTLY AS POSSIBLE AGAINST THE RIGHT SIDE OF THE OPENING AND SHALL IN NO CASE EXTEND FURTHER THAN 20" FROM THE RIGHT SIDE OF THE CONDUIT WINDOW ON THE SMALL PAD OR 30" ON THE LARGE PAD. NO MORE THAN 8 CONDUITS WILL BE USED ON THE LOW VOLTAGE SIDE (NOT INCLUDING THE METERING CONDUIT). DO NOT PUT ANY CONCRETE IN OR UNDER THE CONDUIT WINDOW. USE SOIL TO SEPARATE CONDUITS. BELL ENDS ARE REQUIRED FOR ALL METAL CONDUIT, BUT NOT FOR PLASTIC CONDUIT.
5. CLEARANCES. THE FRONT OF THE PAD SHOULD ALWAYS FACE AWAY FROM ADJACENT STRUCTURES AND BE FREE OF OBSTRUCTIONS. AT LEAST 3 FEET MUST SEPARATE THE EDGES OF THE PAD FROM ANY ADJACENT STRUCTURE. THE EDGES OF THE PAD MUST BE AT LEAST 10 FEET FROM ANY COMBUSTIBLE STRUCTURE. IF AN ADJACENT STRUCTURE HAS ANY OVERHANG OR EAVE WITHIN 27 VERTICAL FEET OF THE TOP OF THE PAD, CLEARANCES MUST BE MEASURED FROM THE OUTISIDE OF THE OVERHANG. THE PAD MUST NOT BE PLACED IN AN AREA 10 FEET IN LINE WITH OR 3 FEET TO EITHER SIDE OF ANY WINDOW IN AN ADJACENT STRUCTURE (SEE DETAIL "A"). CLEARANCE FOR A DOOR MUST BE 20 FEET IN LINE WITH IT AND 10 FEET ON THE SIDES (SEE DETAIL "B"). PADS MUST NOT BE PLACED WITHIN 15 FEET OF ANY VALVE OR WITHIN 20 FEET OF ANY PLUMBING OR STORAGE FACILITY CONTAINING FLAMMABLE MATERIAL. NO WALLS, FENCES, OR ANY OTHER OBSTRUCTIONS WILL BE PLACED WITHIN 3 FEET OF THE SIDES OR BACK OF THE PAD, OR WITHIN 10 FEET OF THE FRONT OF THE PAD (SEE DETAIL "C"). THE AREA IN FRONT OF THE PAD MUST HAVE 10 FEET OF CLEAR, LEVEL WORKING AREA FOR MAINTENANCE OF THE TRANSFORMER. THE PAD MAY NOT BE PLACED IN LINE WITH AN AIR INTAKE WITHIN 32 VERTICAL FEET OF THE SURFACE PAD. ALSO VERTICALLY, IT MUST NOT BE PLACED WITHIN 12 FEET OF A DOOR OR WINDOW.
6. BARRIERS. IF THE TRANSFORMER PAD IS TO BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC, (PARKING LOTS, DRIVEWAYS, ETC) CONTACT UTAH POWER & LIGHT FOR PROTECTIVE BARRIER REQUIREMENTS.
7. IF THE TRANSFORMER WILL NOT COVER THE CABLE OPENINGS ON THESE STANDARD PADS, SEAL THE SIDES OF THE CABLE OPENING TO FIT THE TRANSFORMER USING SAKRETE OR COMPARABLE.

E3 TRANSFORMER PAD DETAIL

SCALE: NTS

GENERAL SHEET NOTES

1. SCOPE

   THIS MATERIAL SPECIFICATION OUTLINES THE MINIMUM REQUIREMENTS FOR PADVAULTS TO BE USED IN CONJUNCTION WITH PACIFICORP- OWNED THREE-PHASE TRANSFORMERS (SEE FIGURE 1). THE MATERIAL SPECIFICATION APPLIES WHETHER THE PADVAULT IS TO BE INSTALLED BY COMPANY PERSONNEL, CONTRACTOR, CUSTOMER, OR THE SUPPLIER.

2. APPLICABLE DOCUMENTS

   THE LATEST REVISIONS OF THE DOCUMENTS, STANDARDS, CODES, AND REQUIREMENTS LISTED IN 2.1, PACIFICORP, AND 2.2, CODES AND STANDARDS, IN EFFECT ON THE DATE OF INVITATION TO BID APPLY TO THE EXTENT SPECIFIED HEREIN.

   2.1 PACIFICORP

   ZG 301 GENERAL EQUIPMENT BASE AND ENCLOSURE REQUIREMENTS

   ZG 311 CONCRETE REQUIREMENTS

   2.2 CODES AND STANDARDS

   WESTERN UNDERGROUND COMMITTEE GUIDE 2.13, SECURITY FOR PADMOUNTED EQUIPMENT ENCLOSURES

   APPLICABLE CODES

   ANSI STANDARDS

   IEEE STANDARDS

   NEMA STANDARDS

3. GENERAL

   3.1 APPLICATION INFORMATION

   THIS MATERIAL SPECIFICATION STATES MATERIAL AND CONSTRUCTION REQUIREMENTS THAT ARE APPLICABLE TO ALL THREE-PHASE TRANSFORMER PADVAULTS.

   3.2 AUTHORIZED MATERIAL SPECIFICATION

   THIS MATERIAL SPECIFICATION IS NOT CONSIDERED VALID UNTIL EACH PAGE CONTAINS THE APPROVAL SIGNATURE OR INITIALS OF THE PERSONS NAMED IN THE TITLE BLOCKS.

4. APPLICABLE STOCK ITEM NUMBERS

   MATERIALS BEING SUBMITTED FOR THE FOLLOWING PACIFICORP STOCK ITEM NUMBERS ARE SUBJECT TO EVALUATION IN ACCORDANCE WITH REQUIREMENTS IN THIS MATERIAL SPECIFICATION.

   7992600, PADVAULT, TRANSFORMER, 3-PHASE, 75-750 KVA

   7992958, PADVAULT, TRANSFORMER, 3-PHASE, 1000-2500 KVA

5. PRODUCT AND INSTALLATION REQUIREMENTS

   THE PURPOSE OF A THREE-PHASE TRANSFORMER PADVAULT IS TO SUPPORT A THREE-PHASE TRANSFORMER.

   5.1 PADVAULT LAYOUT

   THE THREE-PHASE TRANSFORMER PADVAULT IS COMPOSED OF TWO PIECES: (1) THE PAD, AND (2) THE ENCLOSURE. UNLESS OTHERWISE APPROVED BY PACIFICORP ENGINEERING, ALL DIMENSIONS AND PLACEMENT OF HARDWARE SHALL CONFORM TO THOSE SHOWN ON THIS SHEET. THE ENCLOSURE IS COMMON TO ALL PADVAULTS COVERED BY THIS MATERIAL SPECIFICATION, ZG 531, PADVAULT-THREE-PHASE SECTIONALIZING CABINET, AND ZG 551, PADVAULT-THREE-PHASE FUSING CABINET.

   5.2 INSERTS

   TWO .375" 16UNC STAINLESS STEEL OR NYLON THREADED INSERTS AND STAINLESS STEEL BOLTS WITH CLEATS FOR MOUNTING THE TRANSFORMER SHALL BE PLACED IN THE PAD AS SHOWN IN FIGURE 2.

   5.3 PULLING ATTACHMENTS

   CABLE PULLING ATTACHMENTS SHALL BE INSTALLED OPPOSITE OF EACH SET OF CONDUIT BREAKOUTS SUCH THAT BLOCKS MAY BE ATTACHED FOR A STRAIGHT CABLE PULL. PULLING ATTACHMENTS SHALL HAVE A MINIMUM PULLOUT STRENGTH OF 6000 POUNDS. ATTACHMENTS SHALL ALLOW THE ATTACHMENT OF A CLEVIS WITH A ONE-INCH DIAMETER THROUGH BOLT. PULLING ATTACHMENTS MAY BE DESIGNED BY THE MANUFACTURER TO MEET THESE REQUIREMENTS.

   5.4 CONDUIT ENTRANCES

   BANKS OF NINE (9) SIX-INCH SQUARE BREAKOUTS SHALL BE USED FOR CONDUIT ENTRANCES. TWO BANKS OF KNOCKOUTS SHALL BE PLACED IN EACH SIDE AND IN EACH END OF THE ENCLOSURE.

   5.5 LIFTING ATTACHMENTS

   ENOUGH LIFTING ATTACHMENTS SHALL BE PROVIDED TO ENSURE SAFE INSTALLATION OF ALL PIECES AT THE SITE.
   ENOUGH LIFTING ATTACHMENTS SHALL BE PROVIDED TO ENSURE SAFE INSTALLATION OF ALL PIECES AT THE SITE.

   5.6 INSTALLATION

   THIS UNIT SHALL BE INSTALLED AT THE SITE BY THE SUPPLIER OR CONTRACTOR. ALL EARTH UNDER THE PADVAULT SHALL BE COMPACTED AND LEVEL PRIOR TO SETTING THE PADVAULT. PROVIDE 6" OF 3/4-INCH-MINUS GRAVEL BACKFILL BASE. THE JOINT BETWEEN THE PAD AND ENCLOSURE SHALL BE SEALED USING TAR OR MASTIC. THE TOP OF THE PAD SHOULD BE TWO TO FOUR INCHES ABOVE FINAL GRADE, WHEN INSTALLED.

6. TESTING

   6.1 TEST COMPLIANCE

   PADVAULTS SUBMITTED UNDER THIS MATERIAL SPECIFICATION SHALL MEET ALL TESTS AND REQUIREMENTS CONTAINED IN ZG 301, GENERAL EQUIPMENT BASE AND ENCLOSURE REQUIREMENTS, ZG 311, CONCRETE REQUIREMENTS, AND THIS MATERIAL SPECIFICATION. PADVAULTS WILL ALSO COMPLY WITH REQUIREMENTS IN APPLICABLE NATIONAL STANDARDS.

   6.2 SECURITY TEST

   TRANSFORMER PADVAULTS MUST BE ABLE TO PASS THE FOLLOWING SECURITY TEST. THE SECURITY TEST IS DESIGNED TO ENSURE THAT PADMOUNT EQUIPMENT, WHICH COMPLIES WITH WESTERN UNDERGROUND COMMITTEE GUIDE 2.13, SECURITY FOR PADMOUNTED EQUIPMENT ENCLOSURES, IS NOT COMPROMISED BY UNEVEN PAD SETTING.

   WITH THE APPROPRIATE TRANSFORMER MOUNTED, ATTEMPT TO PASS A #14 AWG SOFT-DRAWN COPPER WIRE THROUGH THE INTERFACE BETWEEN THE CABINET AND PAD. IF THE WIRE CAN BE PASSED THROUGH, THE PADVAULT HAS FAILED THE TEST AND IS NOT ACCEPTABLE.

7. PROVIDE AMCOR TYPE GV151 PADVAULT OR AS APPROVED OR DIRECTED BY ROCKY MOUNTAIN POWER.

8. REQUIREMENTS ARE SUBJECT TO CHANGE. SUBMIT PADVAULT TO ROCKY MOUNTAIN POWER FOR APPROVAL PRIOR TO THE PURCHASE AND INSTALLATION OF THE PADVAULT, AND INCLUDE ALL COSTS IN BID.

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Matthew John Hawksamp
STATE OF UTAH
6/14/2019

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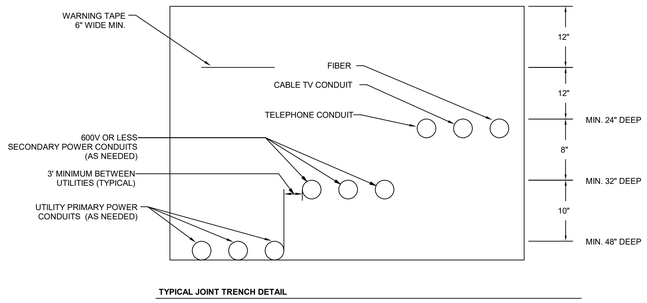
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SITE ELECTRICAL DETAILS

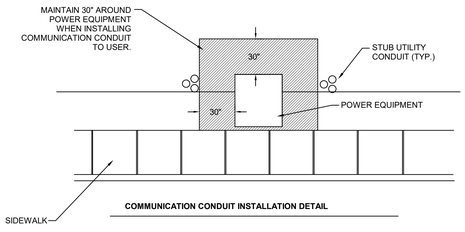
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ES501

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TYPICAL JOINT TRENCH DETAIL

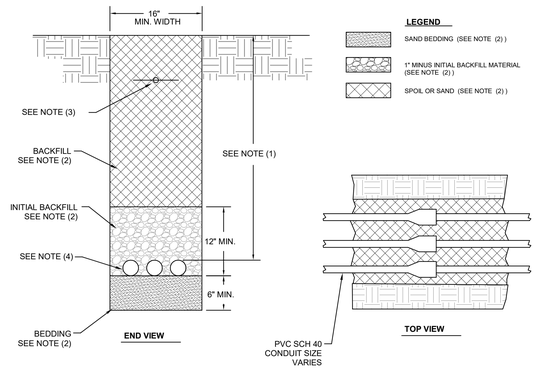
NOTE: FOLLOW DIAGRAM
UNLESS NOTED OTHERWISE



COMMUNICATION CONDUIT INSTALLATION DETAIL

C2 TYPICAL JOINT UTILITY TRENCH DETAIL

SCALE: NTS



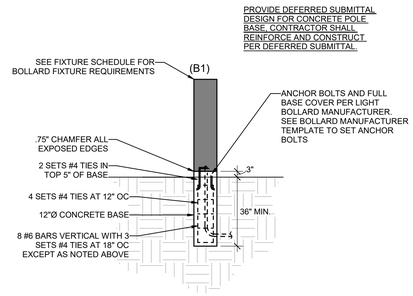
NOTES:

1. THE MINIMUM ALLOWABLE BURY DEPTH FOR CONDUIT IS 48" FOR 15KV PRIMARY CONDUCTORS AND 32" FOR 600 VOLT SECONDARY CONDUCTORS MEASURED FROM FINISHED GRADE TO TOP OF PIPE.
2. 6" OF SAND BEDDING SHALL BE INSTALLED UNDER THE CONDUIT. AT LEAST 12" OF 1" MINUS MATERIAL SHALL BE PLACED AROUND THE CONDUITS. THE REMAINING BACKFILL MATERIAL SHALL BE SOIL REMOVED FROM THE TRENCH UNLESS SPECIFIC BACKFILL REQUIREMENTS EXIST.
3. WARNING TAPE SHALL BE INSTALLED ABOVE THE CONDUIT ZONE. APPROXIMATELY 6" TO 11" BELOW FINISHED GRADE.
4. CONDUITS SHALL BE SPACED 3" EDGE-TO-EDGE.
5. IF MORE THAN ONE LAYER IS INSTALLED A 6" SEPARATION WILL BE REQUIRED. ALSO, THE DEPTHS WILL BE MEASURED TO TOP LAYER.
6. SCHEDULE 40 PVC CAN BE SUBSTITUTED WITH HDPE CONTINUOUS CONDUIT WITH ENERGY SERVICES ENGINEER APPROVAL.
7. ENCASE CONDUIT IN CONCRETE WHEN CONDUIT IS NOT INSTALLED AT THE REQUIRED MINIMUM DEPTH. IN ADDITION, 3" PRIMARY SWEEPS SHALL BE CONCRETE ENCASED.
8. ALL BACKFILL PLACED OVER THE PLASTIC CONDUIT MUST BE COMPACTED PER SPECIFICATION. STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION.

E2 CONDUIT INSTALLATION MULTIPLE CONDUIT

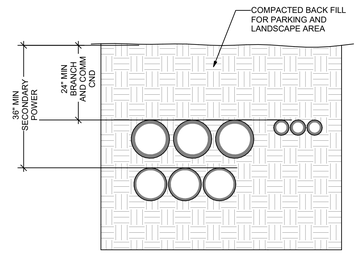
SCALE: NTS

PROVIDE DEFERRED SUBMITTAL DESIGN FOR CONCRETE POLE BASE. CONTRACTOR SHALL REINFORCE AND CONSTRUCT PER DEFERRED SUBMITTAL.



B4 BOLLARD POLE BASE DETAIL

SCALE: NTS



NOTES:

1. ALL BENDS SHALL BE LARGE RADIUS.
2. ALL CONDUIT ABOVE GROUND, ALL BENDS AND FIRST 10' BELOW GROUND SHALL BE PVC WRAPPED RMC. CONDUIT BELOW GROUND MAY BE PVC.
3. PROVIDE POLYPROPYLENE PULL ROPE IN EMPTY CONDUITS.

B5 TYPICAL CONDUIT DIRECT BURY DETAIL

SCALE: NTS

PULLBOX SCHEDULE

NOTES:

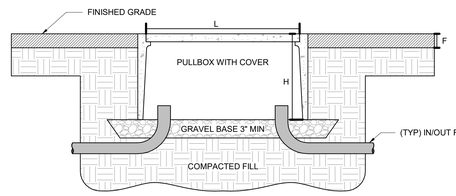
1 PROVIDE BASIS OF DESIGN OR PRE-APPROVED EQUAL.

2 CONTRACTOR SHALL ADJUST SIZE OF BOX AS REQUIRED FOR INSTALLATION.

3 PULLBOXES SHALL BE MARKED FOR THEIR INTENDED USE.

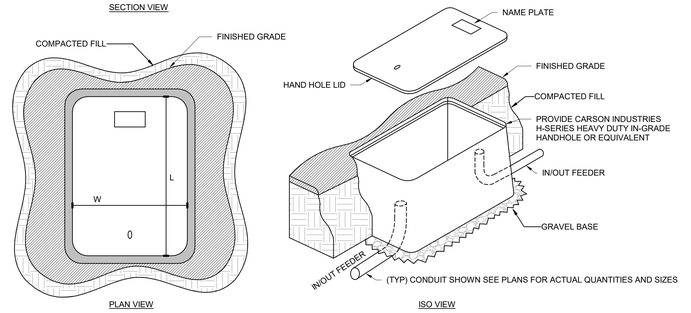
4 IF NOT DIRECTLY CONNECTED TO PANEL, STUB INTO ELECTRICAL OR COMM ROOM AND LABEL INDICATING BOX AND BOX LOCATION.

Name	COVER LABEL	HEIGHT	WIDTH	LENGTH	ABOVE GRADE HEIGHT	BASIS OF DESIGN
HANDHOLE "H"	COMMUNICATIONS	24"	24"	24"	0' - 0"	OLDCASTLE 2X2
PB-1	ELECTRICAL	24"	18"	24"	0' - 0"	OLDCASTLE CHRISTY/POLYMER



SECTION VIEW

REFER TO SCHEDULE FOR DIMENSIONS



E4 IN-GRADE HANDHOLE DETAIL

SCALE: NTS

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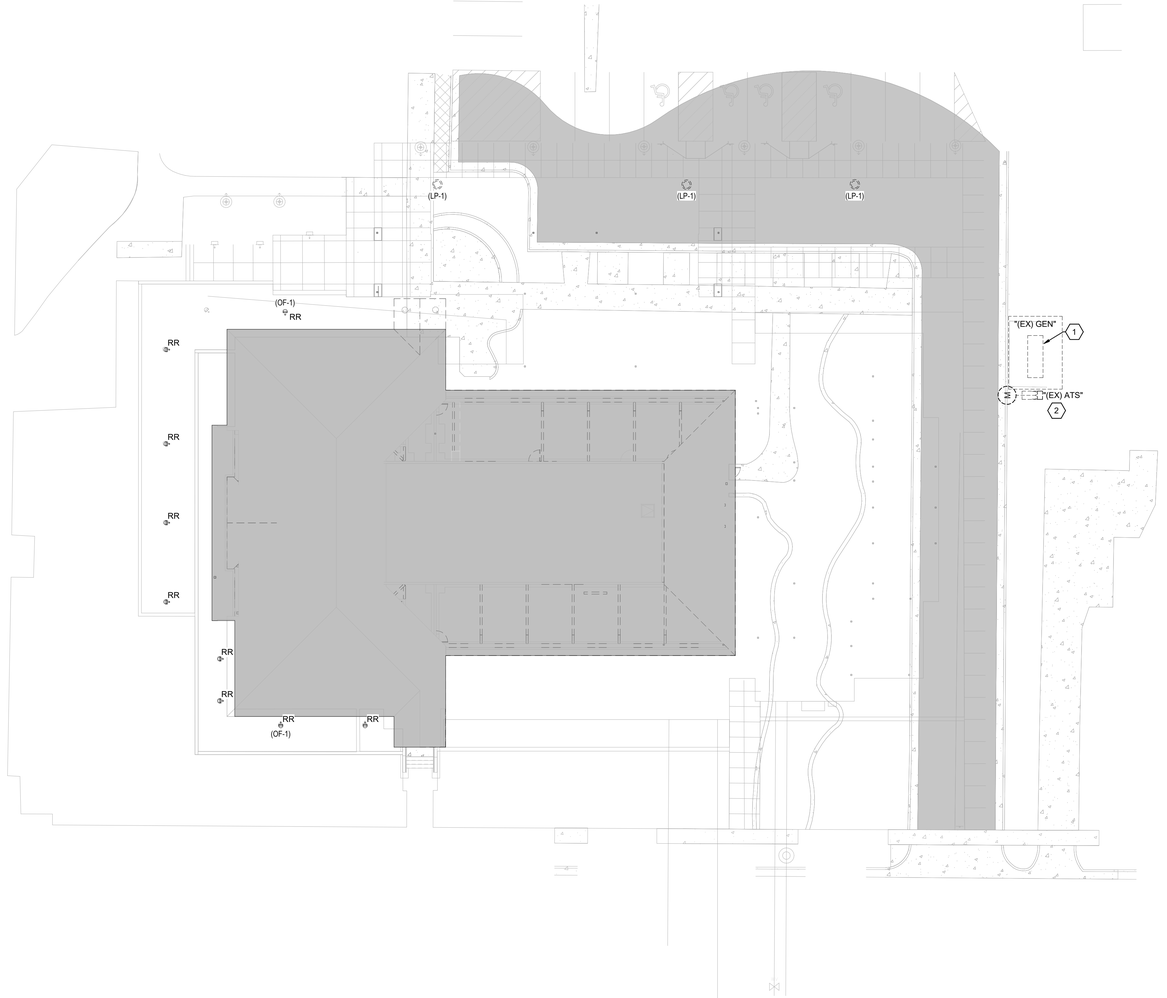
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SHEET NAME
SITE ELECTRICAL DETAILS

SHEET NUMBER
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8/16/2019 9:04:08 AM



NORTH

0 4' 8' 16'

E1 SITE ELECTRICAL DEMOLITION PLAN
SCALE: 1/16" = 1'-0"

GENERAL SHEET NOTES

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2 RELOCATE EXISTING ELECTRICAL DEVICES, EQUIPMENT OR CONDUIT THAT FOR ANY REASON, OBSTRUCTS CONSTRUCTION.

3 PROTECT ALL EXISTING ELECTRICAL EQUIPMENT AND DEVICES NOT TO BE DEMOLISHED. IF DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK, REMOVE DAMAGED PORTIONS AND INSTALL NEW PRODUCTS OF EQUAL CAPACITY, QUALITY, AND FUNCTIONALITY.

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7 PROTECT AND MAINTAIN EXISTING OVERHEAD AND UNDERGROUND POWER AND COMMUNICATIONS UNLESS NOTED OTHERWISE.

8 CONTRACTOR SHALL GO ABOVE OR BELOW EXISTING UTILITIES TO MAINTAIN CLEARANCE AS SHOWN IN DETAILS.

9 DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NEW PLANS.

SHEET KEYNOTES

1 CONTRACTOR SHALL REMOVE AND SALVAGE KOHLER 80KW GENERATOR SET FOR REINSTALLATION IN NEW AREA FOR PROJECT AS SHOWN ON DRAWINGS. ALL CABLES SHALL BE REMOVED AND EXISTING CONDUIT SHALL BE CUT BELOW GRADE AND CAPPED.

2 CONTRACTOR SHALL REMOVE AND SALVAGE CUMMINS 400A ATS. ALL CABLES SHALL BE REMOVED AND EXISTING CONDUIT SHALL BE CUT BELOW GRADE AND CAPPED. ATS SHALL BE REINSTALLED IN NEW LOCATION WHERE SHOWN. CONTRACTOR SHALL COORDINATE WITH KCP&L AS ATS IS CURRENT LOCATION OF CT'S AND BUILDING METER/SERVICE.

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SEAL

LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

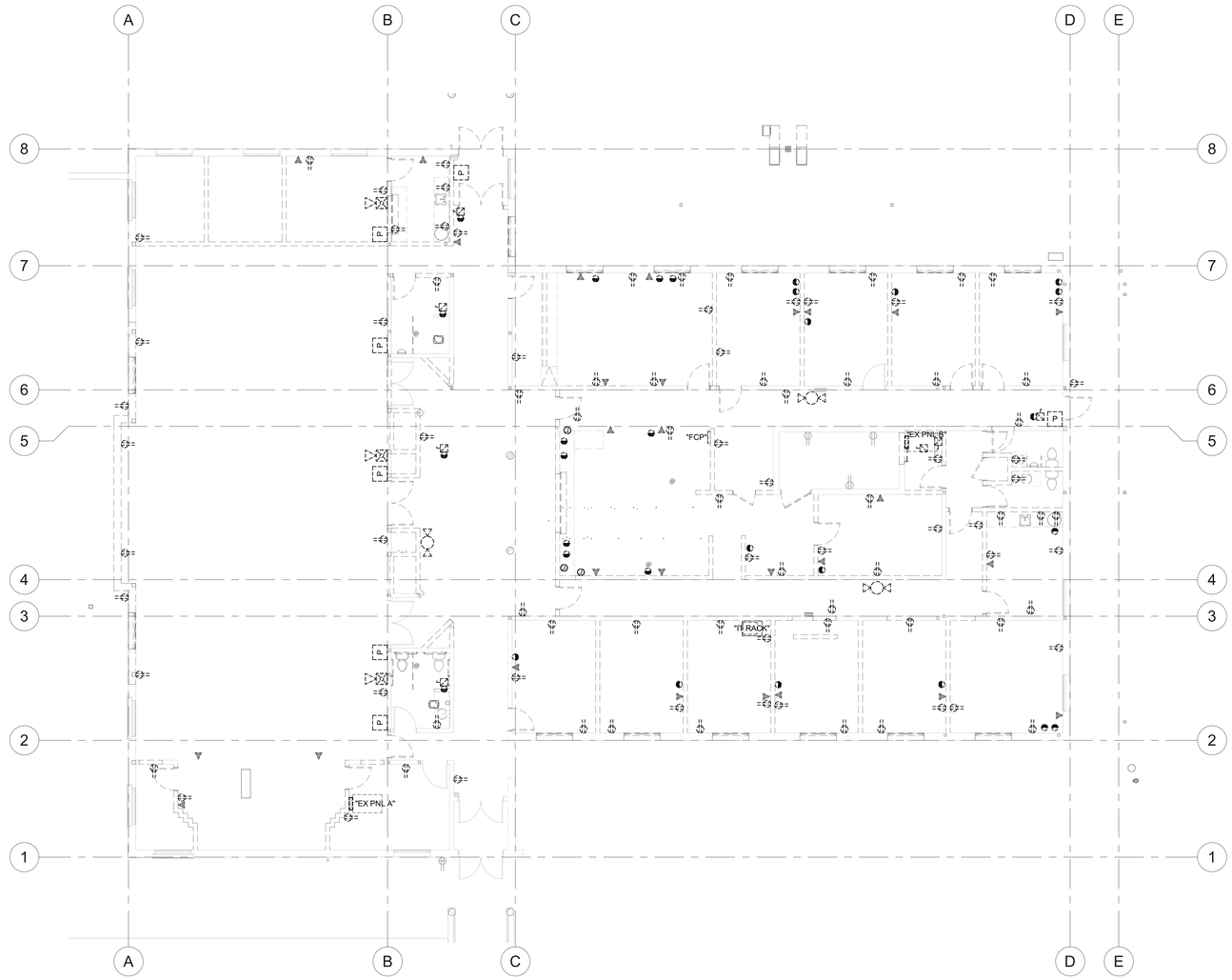
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ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
SITE ELECTRICAL DEMOLITION PLAN

SHEET NUMBER
ED100

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8/16/2019 9:01:32 AM



E1 LEVEL 1 ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

NORTH

0 4' 8' 16'

GENERAL SHEET NOTES

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LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

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REVISIONS
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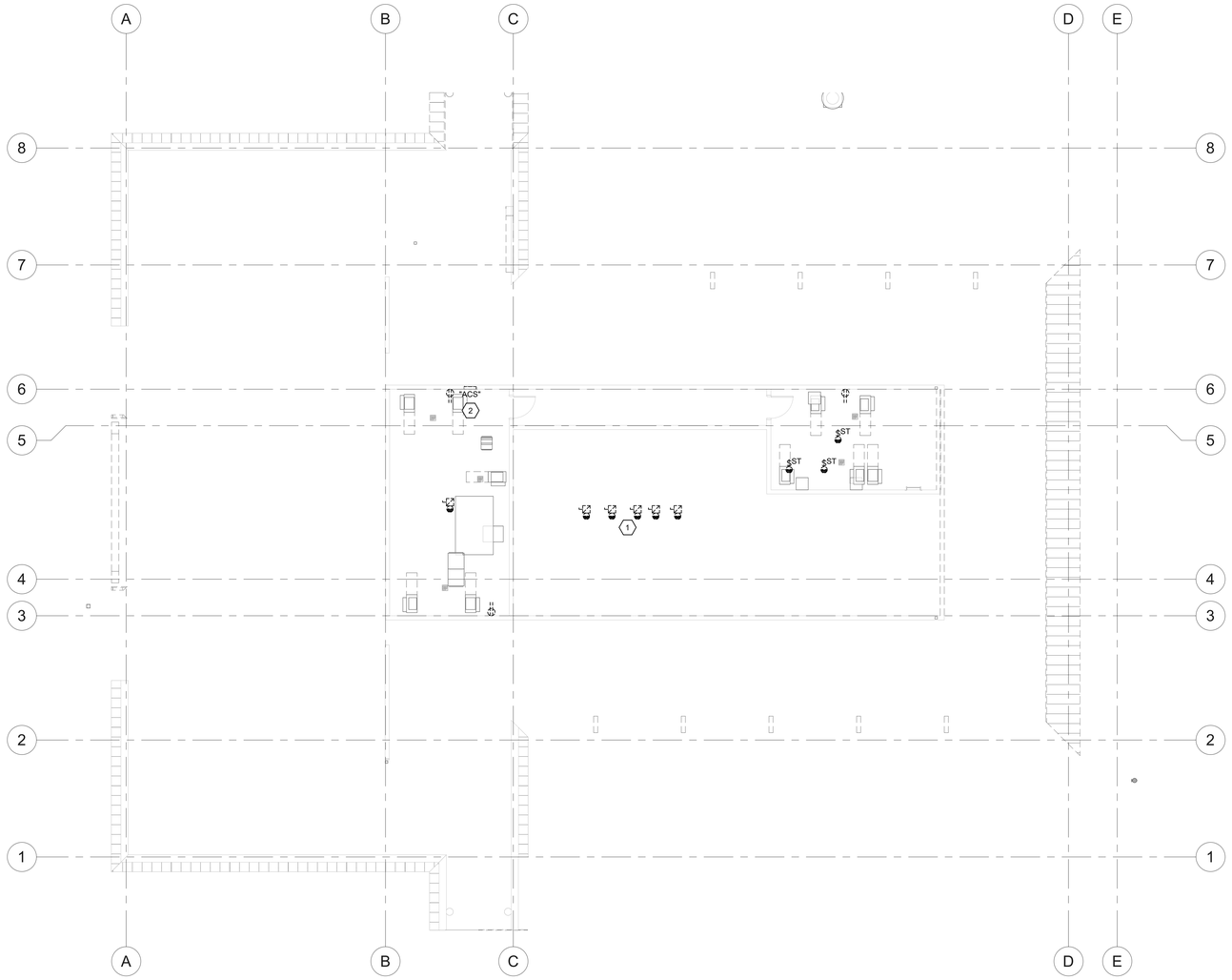
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ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
LEVEL 1 ELECTRICAL DEMOLITION PLAN

SHEET NUMBER
ED101

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E1 LEVEL 2 ELECTRICAL DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

GENERAL SHEET NOTES

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SHEET KEYNOTES

1 CONDENSING UNITS LOCATED ON ROOF.

2 SALVAGE AND RELOCATE EXISTING S2 ACS HEADEND PANEL TO IT ROOM 143 DURING CONSTRUCTION.

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SEAL

LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Hawksmp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

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REVISIONS
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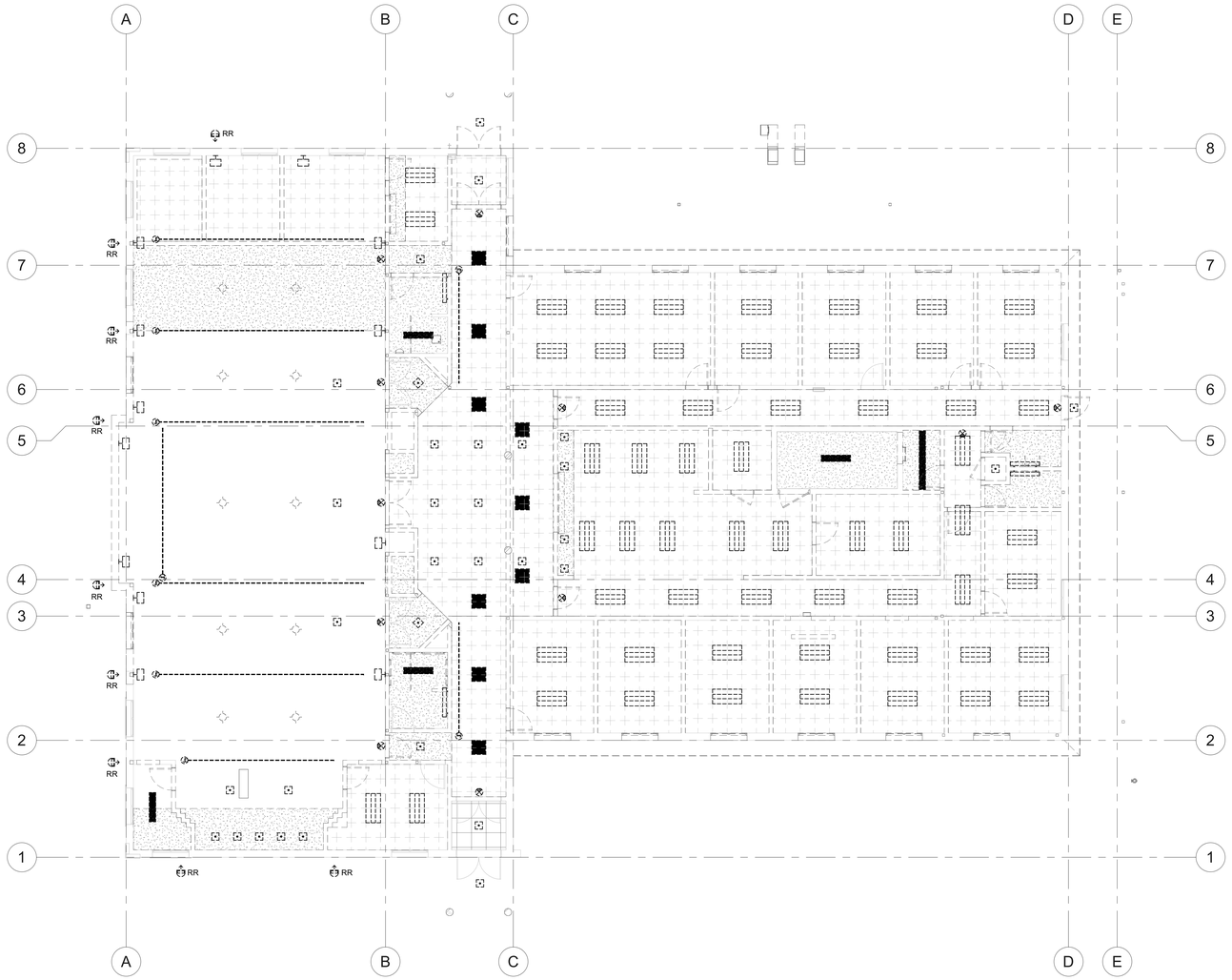
NO	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
LEVEL 2 & ROOF ELECTRICAL DEMOLITION PLAN

SHEET NUMBER
ED102

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E1 LEVEL 1 CEILING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

NORTH

0 4' 8' 16'

GENERAL SHEET NOTES

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SHEET KEYNOTES

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KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

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LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

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REVISIONS
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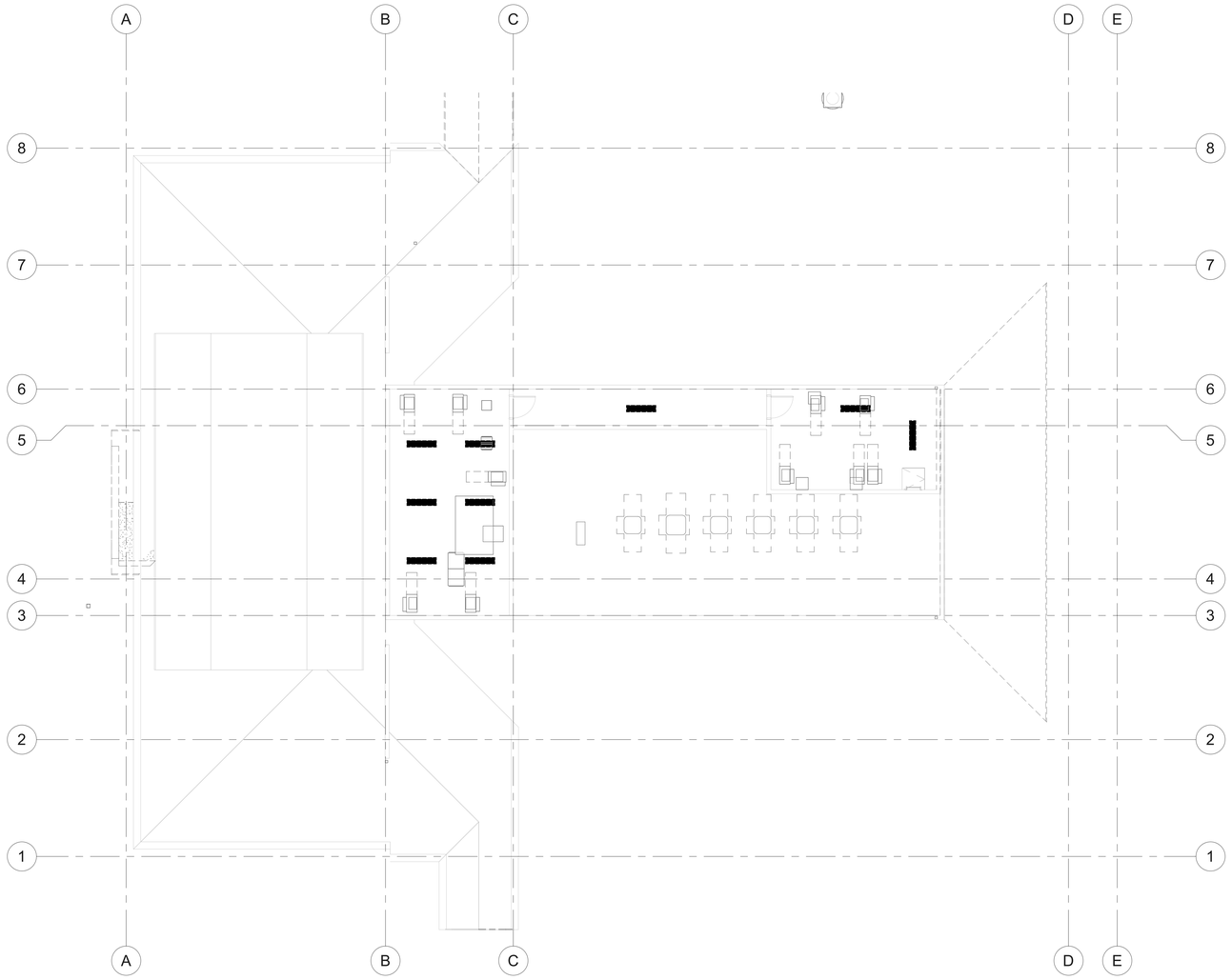
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ISSUE
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28 AUGUST 2019

SHEET NAME
LEVEL 1
ELECTRICAL
DEMOLITION
CEILING PLAN

SHEET NUMBER
ED103

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NORTH

0 4' 8' 16'

E1 LEVEL 2 CEILING DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

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SEAL

LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
LEVEL 2 ELECTRICAL DEMOLITION CEILING PLAN

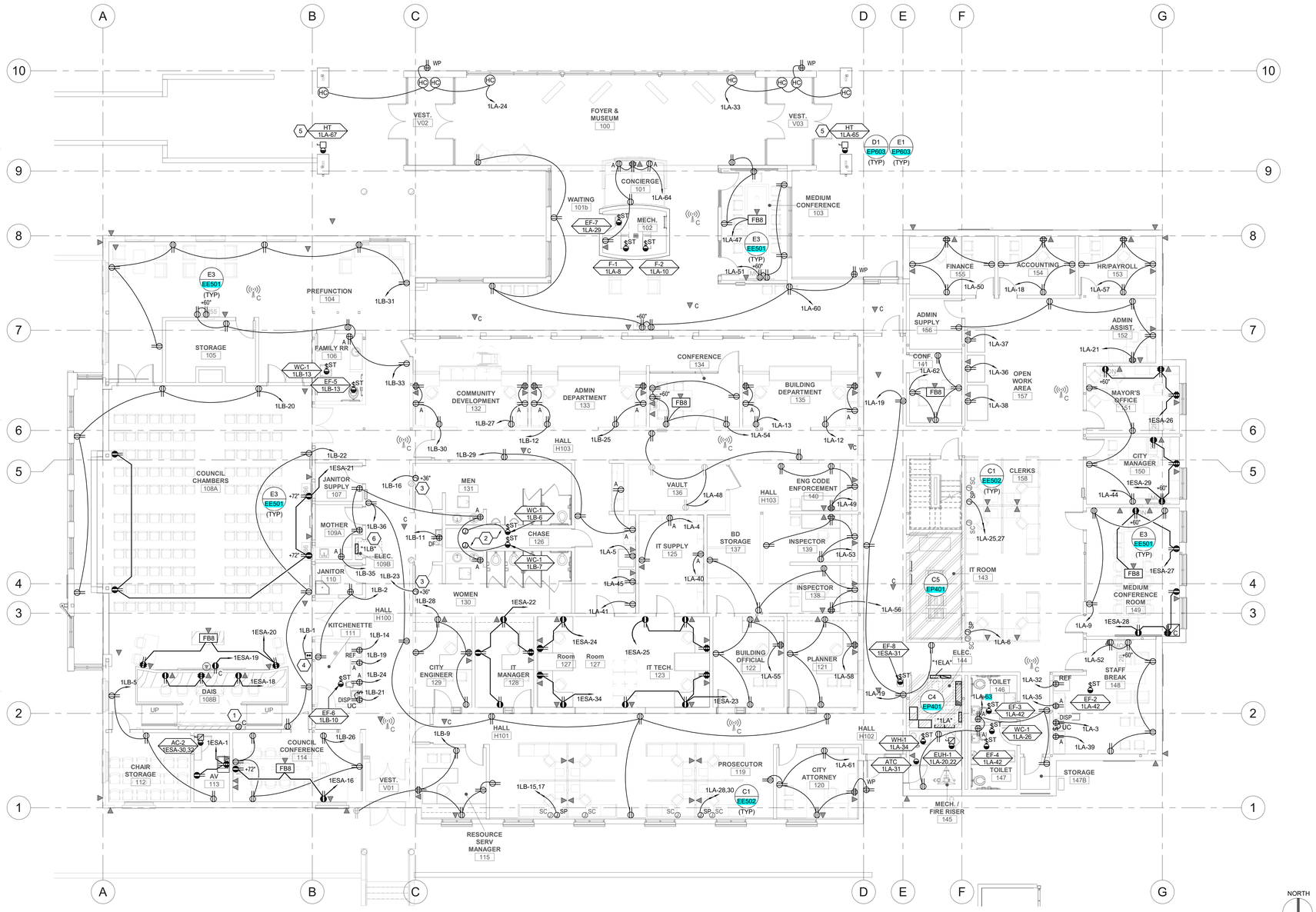
SHEET NUMBER
ED104

GENERAL SHEET NOTES

1. ALL ELECTRICAL PENETRATIONS IN FIRE RATED WALLS, FLOORS, OR CEILINGS SHALL BE SEALED TO MEET FIRE RATING AND BE LEAK PROOF. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, MATERIALS, FINISHES, AND DIMENSIONS BEFORE CONSTRUCTION.
3. ALL WORK SHALL BE DONE ACCORDING TO THE NATIONAL ELECTRICAL CODE (2017 NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.
4. SURFACE MOUNTED CONDUIT ON WALLS AND CEILING, EXCLUDING MECHANICAL/ELECTRICAL SPACES, SHALL NOT BE INSTALLED UNLESS WHERE SPECIFICALLY SHOWN. ALL SURFACE MOUNTED CONDUIT SHALL BE PAINTED TO MATCH WALL, CEILINGS, AND SURROUNDINGS.
5. PROVIDE DEDICATED NEUTRAL FOR ALL BRANCH CIRCUITS.
6. CONTRACTOR SHALL UPDATE PANEL SCHEDULES WITH NEW CIRCUIT DATA TYPED ON CARD STOCK TYPE MATERIAL.

SHEET KEYNOTES

1. POWER CONNECTION FOR MOTORIZED PROJECTOR SCREEN. COORDINATE EXACT LOCATION WITH EQUIPMENT PRIOR TO ROUGH-IN.
2. POWER FOR PLUMBING FIXTURES, COORDINATE EXACT LOCATION WITH PLUMBING INSTALLER AND PROVIDE REQUIRED STEP DOWN TRANSFORMERS AS REQUIRED.
3. POWER FOR ELECTRIC HAND DRYER. COORDINATE EXACT LOCATION HEIGHT WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN. TYPICAL ALL LOCATIONS.
4. PROVIDE CONDUIT, POWER AND CONTROL WIRE FROM MOTORIZED SCREEN TO UP/DOWN MANUAL AND TOUCHSCREEN CONTROLS LOCATED IN THIS AREA. COORDINATE WITH AV DRAWINGS PRIOR TO ROUGH-IN.
5. POWER CONNECTION(S) FOR HEAT TRACE. COORDINATE EXACT LOCATION WITH MECHANICAL INSTALLER. PROVIDE NON FUSED 30A/1P DISCONNECT SWITCH IN ELECTRICAL ROOM.
6. STUB THREE 3/4" CONDUITS AND ONE 1" CONDUIT FROM TOP OF PANEL TO ACCESSIBLE CEILING ABOVE.



NORTH

0 4' 8' 16'

E1 LEVEL 1 POWER PLAN
SCALE: 1/8" = 1'-0"

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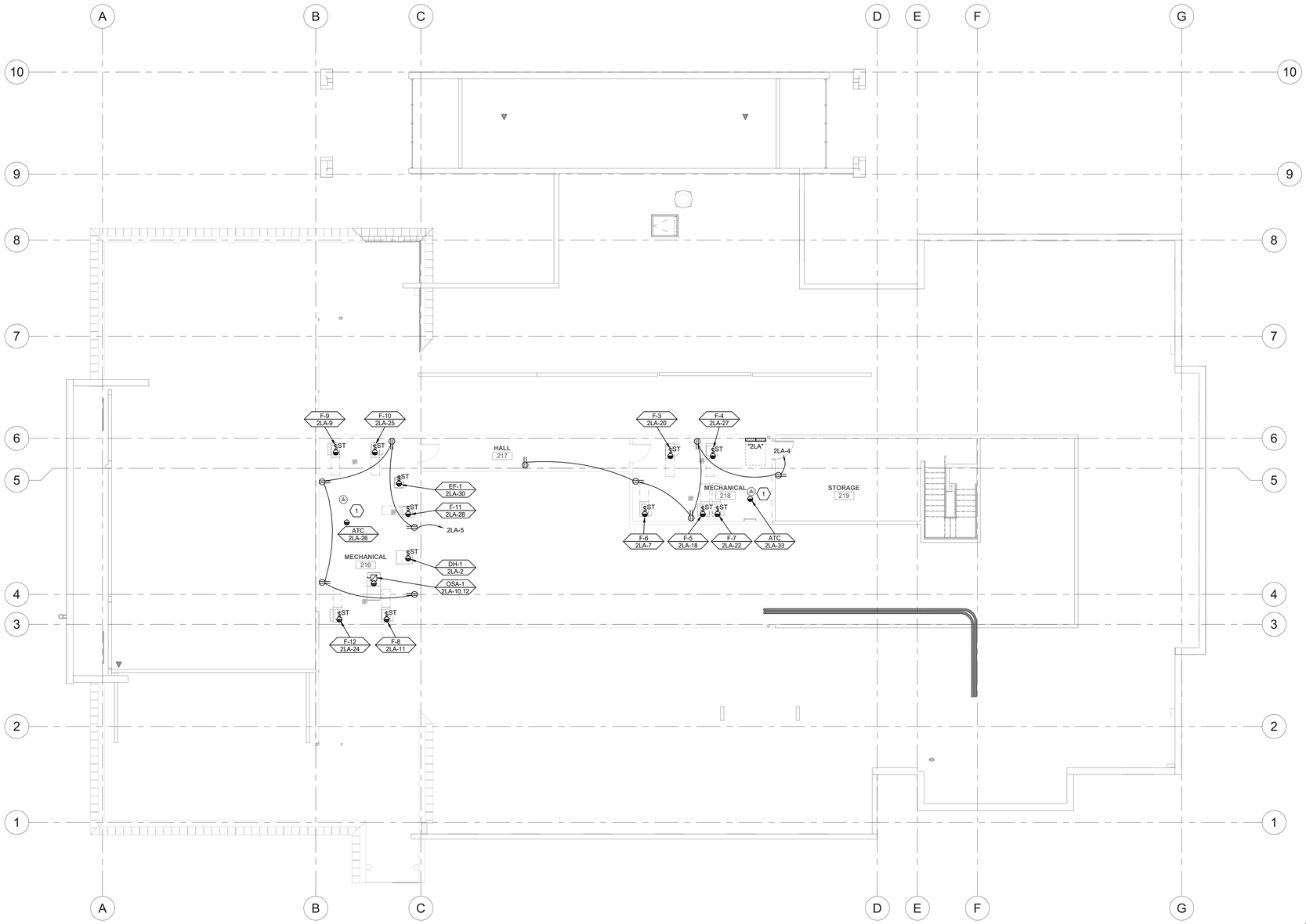
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NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1
2	06-28-2019	ADDENDUM 2

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
LEVEL 1 POWER PLAN

SHEET NUMBER
EP101



E1 LEVEL 2 POWER PLAN

SCALE: 1/8" = 1'-0"

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GENERAL SHEET NOTES

1 ALL ELECTRICAL PENETRATIONS IN FIRE RATED WALLS, FLOORS, OR CEILINGS SHALL BE SEALED TO MEET FIRE RATING AND BE LEAK PROOF. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.

2 CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, MATERIALS, FINISHES, AND DIMENSIONS BEFORE CONSTRUCTION.

3 ALL WORK SHALL BE DONE ACCORDING TO THE NATIONAL ELECTRICAL CODE (2017 NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

4 SURFACE MOUNTED CONDUIT ON WALLS AND CEILING, EXCLUDING MECHANICAL/ELECTRICAL SPACES, SHALL NOT BE INSTALLED UNLESS WHERE SPECIFICALLY SHOWN. ALL SURFACE MOUNTED CONDUIT SHALL BE PAINTED TO MATCH WALL, CEILINGS, AND SURROUNDINGS.

5 PROVIDE DEDICATED NEUTRAL FOR ALL BRANCH CIRCUITS.

6 CONTRACTOR SHALL UPDATE PANEL SCHEDULES WITH NEW CIRCUIT DATA TYPED ON CARD STOCK TYPE MATERIAL.

SHEET KEYNOTES

1 COORDINATE LOCATION OF ATC PANEL POWER WITH MECHANICAL DRAWINGS.

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KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

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LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Hawkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

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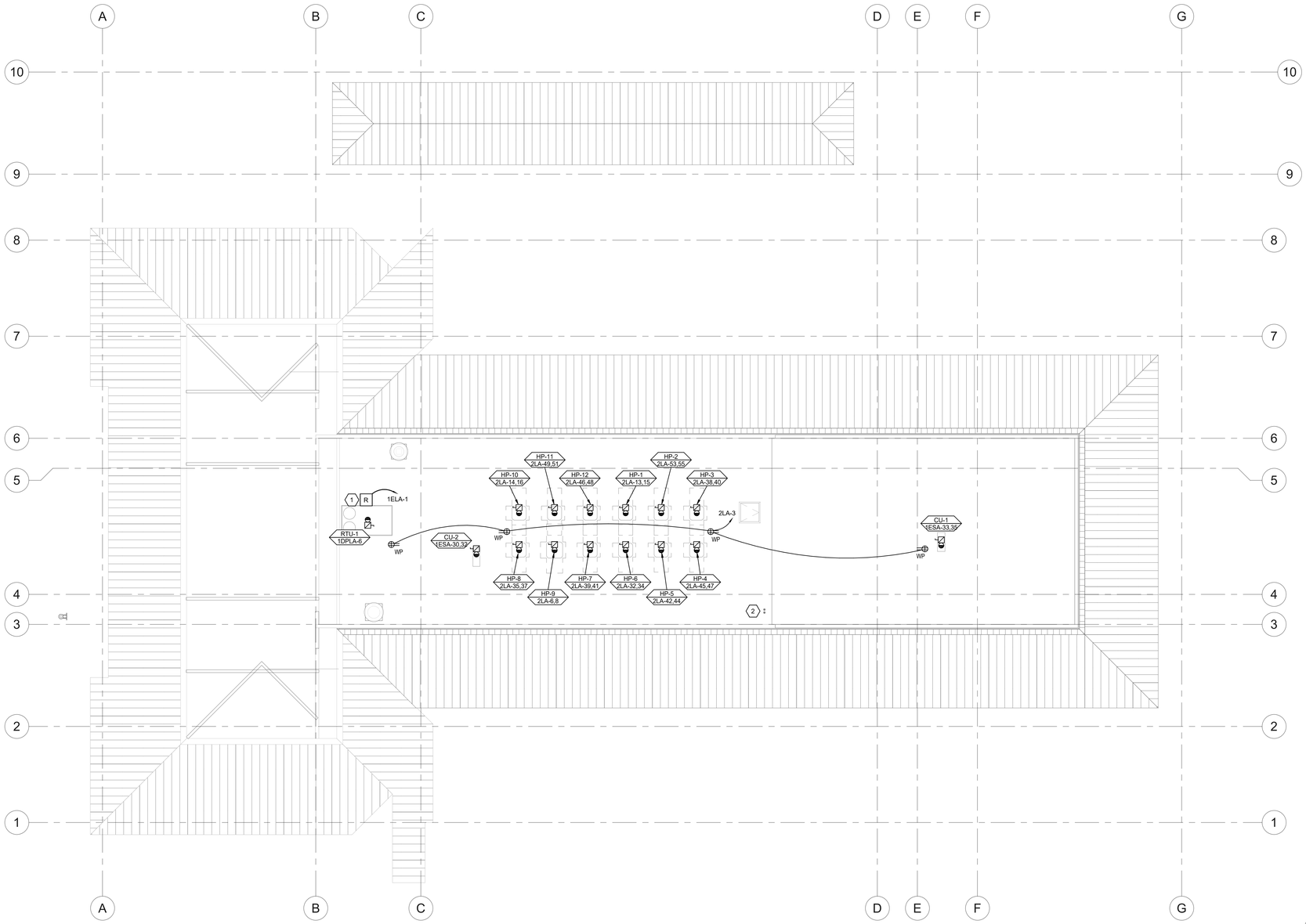
REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
LEVEL 2 POWER PLAN

SHEET NUMBER
EP102



NORTH

0 4' 8' 16'

E1 ROOF POWER PLAN
SCALE: 1/8" = 1'-0"

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GENERAL SHEET NOTES

1 ALL ELECTRICAL PENETRATIONS IN FIRE RATED WALLS, FLOORS, OR CEILINGS SHALL BE SEALED TO MEET FIRE RATING AND BE LEAK PROOF. REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.

2 CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, MATERIALS, FINISHES, AND DIMENSIONS BEFORE CONSTRUCTION.

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5 PROVIDE DEDICATED NEUTRAL FOR ALL BRANCH CIRCUITS.

6 CONTRACTOR SHALL UPDATE PANEL SCHEDULES WITH NEW CIRCUIT DATA TYPED ON CARD STOCK TYPE MATERIAL.

SHEET KEYNOTES

1 RELAY FOR FAN SHUTDOWN. SEE FIRE ALARM SHEET FOR ADDITIONAL INFORMATION.

2 CONDUIT STUB LOCATION THROUGH ROOF FOR FUTURE PV SYSTEM. CAP AND SEAL CONDUITS PER SPECIFICATIONS.

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REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD. USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
ROOF POWER PLAN

SHEET NUMBER
EP103

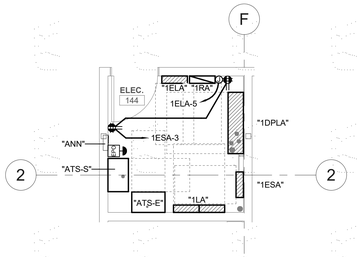
SHEET KEYNOTES

1 COMM SERVICE CONDUIT STUB-UP LOCATION. STUB UP (3) 4" CONDUITS FROM SITE (2 FROM NORTH, 1 FROM EAST).

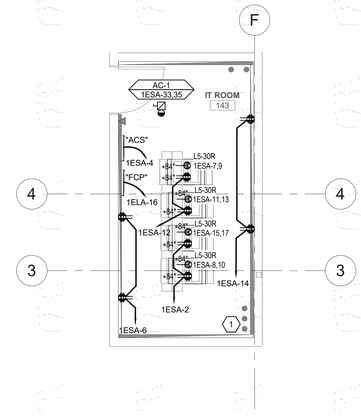
2 ROUTE TWO (2) 3" CONDUITS FROM 1DPLA TO STUB LOCATION ON ROOF. TAG AND LABEL CONDUITS ON EACH END FOR FUTURE PV SYSTEM.

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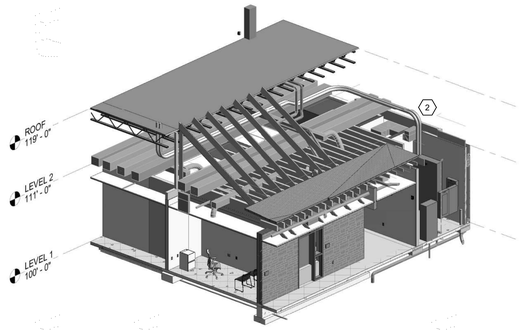
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C4 ENLARGED ELECTRICAL ROOM POWER PLAN
SCALE: 1/4" = 1'-0"



C5 ENLARGED IT ROOM POWER PLAN
SCALE: 1/4" = 1'-0"



E4 FUTURE PV CONDUIT ROUTING
SCALE:

KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

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REVISIONS
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NO	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
ENLARGED POWER PLANS

SHEET NUMBER
EP401

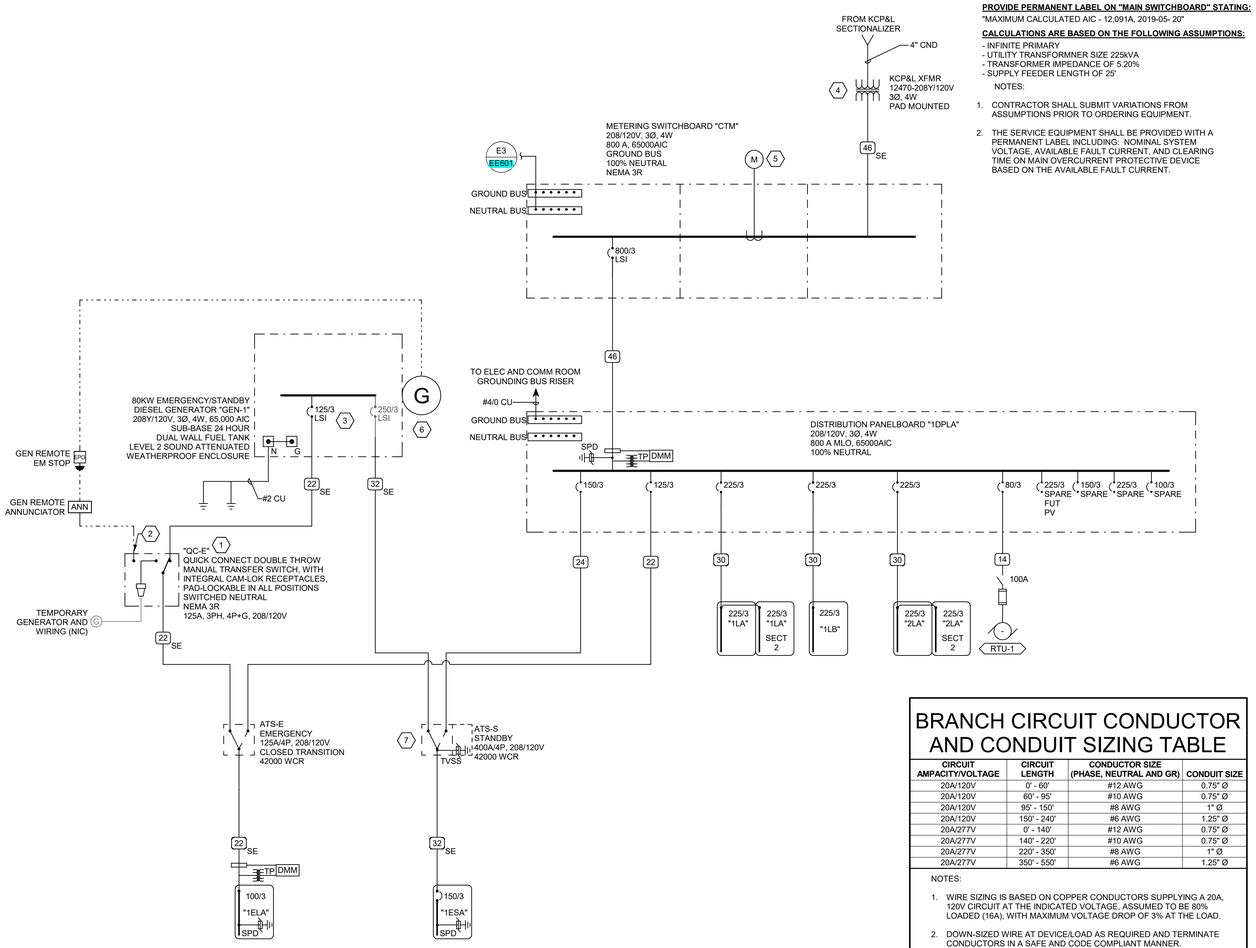
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EQUIPMENT NAMEPLATE SCHEDULE

EQUIPMENT ID SCHEME	FIRST DIGIT - BUILDING LEVEL (0, 1, 2, ETC) SECOND DIGIT - PANEL TYPE M - MECHANICAL H - (277/480) L - (120/208) E - EMERGENCY S - STANDBY Q - EQUIPMENT U - UPS K - KITCHEN (120/208) THIRD DIGIT - BUILDING AREA (A, B, C, ETC) FOURTH DIGIT - SEQUENCE # (1,2,3,...)
LABEL FORMAT	[NAME] [SYSTEM] [VOLTAGE] [FED FROM] [SOURSE(S)]
LABEL EXAMPLE	PANEL "4LA1" STANDBY POWER 120/208V FED FROM BUS-A / XFMR 4TA
BUSWAY	LABEL BUSWAY EVERY 6' WHERE EXPOSED TO VIEW AND EVERY 15' WHERE NOT EXPOSED TO VIEW
OTHER	

COLOR SCHEME

SYSTEM	EQUIPMENT	NAMEPLATE COLOR TEXT	NAMEPLATE COLOR BACKGROUND
NORMAL POWER	ALL GEAR NOT INCLUDED BELOW	WHITE	BLACK
STANDBY POWER	MDPS1 AND ALL DOWNSTREAM GEAR, EXCEPT UPS GEAR AS NOTED	WHITE	ORANGE
EMERGENCY POWER	GDP1, GDP2, ATS-E AND ALL DOWNSTREAM GEAR	WHITE	RED
LEGALLY-REQUIRED STANDBY POWER	ATS-S AND ALL DOWNSTREAM GEAR	RED	WHITE
UPS "A" POWER	UPSA AND ALL DOWNSTREAM GEAR	WHITE	BLUE
UPS "B" POWER	UPSB AND ALL DOWNSTREAM GEAR	BLACK	YELLOW



PROVIDE PERMANENT LABEL ON "MAIN SWITCHBOARD" STATING:
"MAXIMUM CALCULATED AIC - 12,091A, 2019-05- 20"

CALCULATIONS ARE BASED ON THE FOLLOWING ASSUMPTIONS:
- INFINITE PRIMARY
- UTILITY TRANSFORMNER SIZE 225kVA
- TRANSFORMER IMPEDANCE OF 5.20%
- SUPPLY FEEDER LENGTH OF 25'

NOTES:

1. CONTRACTOR SHALL SUBMIT VARIATIONS FROM ASSUMPTIONS PRIOR TO ORDERING EQUIPMENT.
2. THE SERVICE EQUIPMENT SHALL BE PROVIDED WITH A PERMANENT LABEL INCLUDING: NOMINAL SYSTEM VOLTAGE, AVAILABLE FAULT CURRENT, AND CLEARING TIME ON MAIN OVERCURRENT PROTECTIVE DEVICE BASED ON THE AVAILABLE FAULT CURRENT.

BRANCH CIRCUIT CONDUCTOR AND CONDUIT SIZING TABLE

CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	CONDUCTOR SIZE (PHASE, NEUTRAL AND GR)	CONDUIT SIZE
20A/120V	0' - 60'	#12 AWG	0.75" Ø
20A/120V	60' - 95'	#10 AWG	0.75" Ø
20A/120V	95' - 150'	#8 AWG	1" Ø
20A/120V	150' - 240'	#6 AWG	1.25" Ø
20A/277V	0' - 140'	#12 AWG	0.75" Ø
20A/277V	140' - 220'	#10 AWG	0.75" Ø
20A/277V	220' - 350'	#8 AWG	1" Ø
20A/277V	350' - 550'	#6 AWG	1.25" Ø

NOTES:

1. WIRE SIZING IS BASED ON COPPER CONDUCTORS SUPPLYING A 20A, 120V CIRCUIT AT THE INDICATED VOLTAGE, ASSUMED TO BE 80% LOADED (16A), WITH MAXIMUM VOLTAGE DROP OF 3% AT THE LOAD.
2. DOWN-SIZED WIRE AT DEVICE/LOAD AS REQUIRED AND TERMINATE CONDUCTORS IN A SAFE AND CODE COMPLIANT MANNER.
3. CONDUIT SIZE IS BASED ON A MAXIMUM OF 3 CIRCUITS PER CONDUIT, EACH WITH A SEPARATE NEUTRAL CONDUCTOR.

E1 ONE-LINE DIAGRAM
SCALE: NTS

COPPER CONDUCTOR AND CONDUIT SCHEDULE

SCHEDULE NUMBER
SUBSCRIPT (NOTE 5) (E.G. 5 IG)

SYM	AMP	HH AMPS	CONDUIT SIZE	CONDUCTOR (NOTE 1) QTY	SIZE	G	IG/HH	SE	NOTES
1	20	-	.75	2	12	12	12	8	2
2	20	-	.75	3	12	12	12	8	2,3
3	20	24	.75	4	12	12	12	8	2,3
4	30	-	.75	2	10	10	10	8	2
5	30	-	.75	3	10	10	10	8	2
6	30	32	.75	4	10	10	10	8	2
7	40	-	1	2	8	10	8	6	2
8	40	-	1	3	8	10	8	6	2
9	40	44	1	4	8	10	8	6	2
10	55	-	1	2	6	10	8	4	2
11	55	-	1	3	6	10	8	4	2
12	55	60	1.25	4	6	10	8	4	2
13	70	-	1	2	4	8	4	2	2
14	70	-	1.25	3	4	8	4	2	2
15	70	76	1.25	4	4	8	4	2	2
16	85	-	1.25	2	3	8	3	2	2
17	85	-	1.25	3	3	8	3	2	2
18	85	92	1.25	4	3	8	3	2	2
19	95	-	1.25	3	2	8	2	2	2
20	95	104	1.50	4	2	8	2	2	2
21	130	-	1.50	3	1	6	2	2	2
22	130	116	1.50	4	1	6	2	2	2
23	150	-	2	3	1/0	6	2	1/0	2
24	150	136	2	4	1/0	6	2	1/0	2
25	175	-	2	3	2/0	6	2	2/0	2
26	175	156	2	4	2/0	6	2	2/0	2
27	200	-	2	3	3/0	6	2	2/0	2
28	200	180	2.50	4	3/0	6	2	2/0	2
29	230	-	2.50	3	4/0	4	2	2/0	2
30	230	208	2.50	4	4/0	4	2	2/0	2
31	255	-	2.50	3	250	4	1	2/0	2
32	255	232	2.50	4	250	4	1	2/0	2
33	310	-	3	3	350	3	1/0	3/0	2
34	310	280	3	4	350	3	1/0	3/0	2
35	380	-	3.50	3	500	3	3/0	3/0	2
36	380	344	4	4	500	3	3/0	3/0	2
37	400	-	2 EA 2	3	3/0	3	3/0	3/0	2
38	400	360	2 EA 2.50	4	3/0	3	3/0	3/0	2
39	510	-	2 EA 2.50	3	250	1	4/0	3/0	2
40	510	464	2 EA 3	4	250	1	4/0	3/0	2
41	620	-	2 EA 3	3	350	1/0	4/0	3/0	2,4
42	620	560	2 EA 3	4	350	1/0	4/0	3/0	2,4
43	760	-	2 EA 3.50	3	500	1/0	4/0	3/0	2,4
44	760	688	2 EA 4	4	500	1/0	4/0	3/0	2,4
45	855	-	3 EA 3	3	300	2/0	4/0	3/0	2,4
46	855	768	3 EA 3	4	300	2/0	4/0	3/0	2,4
47	1000	-	3 EA 3.50	3	400	2/0	4/0	3/0	4
48	1000	912	3 EA 3.50	4	400	2/0	4/0	3/0	4
49	1140	-	3 EA 4	3	500	3/0	4/0	3/0	4
50	1140	1032	3 EA 4	4	500	3/0	4/0	3/0	4
51	1240	-	4 EA 3	3	350	3/0	4/0	3/0	4
52	1240	1120	4 EA 3	4	350	3/0	4/0	3/0	4
53	1675	1520	5 EA 4	4	400	4/0	4/0	4/0	4
54	2010	1824	6 EA 4	4	400	250	250	250	4
55	2660	2408	7 EA 4	4	500	350	350	350	4
56	3040	2752	8 EA 4	4	500	500	500	500	4
57	4180	3784	11 EA 4	4	500	500	500	500	4
58	-	-	5 EA 4	-	-	-	-	-	6
59	-	-	6	-	-	-	-	-	6
60	-	-	10 EA 4	-	-	-	-	-	6

CONDUIT AND CONDUCTOR SCHEDULE NOTES

1. CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.
2. PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122 WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.
3. PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.
4. GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.
5. SYMBOL SUBSCRIPTS:
   - "2N": INCLUDE TWO NEUTRAL CONDUCTORS SIZED AS SCHEDULED FOR PHASE AND NEUTRAL CONDUCTORS WHERE THE CONDUCTOR IS #1/0 OR LARGER. INCLUDE A SINGLE 200% RATED CONDUCTOR THAT IS TWICE THE AMPACITY OF THE SCHEDULED PHASE AND NEUTRAL CONDUCTOR WHERE THE CONDCUTOR IS BELOW #1/0 IN SIZE.
   - "FG" FULL SIZE GROUND, SIZE EQUIPMENT GROUNDING CONDUCTOR TO BE SAME SIZE AS THE PHASE CONDUCTORS.
   - "HH": NEUTRAL CURRENTS EXIST DUE TO HIGH HARMONIC "NONLINEAR" LOADS. CURRENT CARRYING CONDUCTORS DERATED ACCORDINGLY. PROVIDE THE IG/HH SIZE FOR THE EQUIPMENT GROUNDING CONDUCTOR.
   - "IG": INCLUDE IG (INSULATED/ISOLATED GROUND CONDUCTOR) SCHEDULED ALONG WITH THE GROUND OF EQUIPMENT GROUND CONDUCTOR.
   - "SE": SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN, WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEM.
6. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.

FAULT CURRENT TABLE

BUS	FAULT CURRENT
1DPLA	11,691
1ELA	9,495
1ESA	10,153
1LA	11,020
1LB	6,743
2LA	8,601
CTM	12,091

PROVIDE FULLY RATED CIRCUIT BREAKERS IN PANELBOARDS FOR THE FAULT CURRENT SHOWN. SERIES RATINGS WITH NEXT LEVEL UPSTREAM OVERCURRENT PROTECTIVE DEVICES ARE PERMITTED SUBJECT TO FACTORY UL DOCUMENTATION OF SERIES RATING SUBMITTED TO ENGINEER. IF DEVICE OR EQUIPMENT FAULT CURRENT RATING IS NOT SHOWN, ASSUME 100,000 AIC.

GENERAL SHEET NOTES

1. PROVIDE NEMA 3R ENCLOSURES FOR EQUIPMENT LOCATED OUTDOORS. REFER TO PLANS FOR EQUIPMENT LOCATIONS.
2. REFER TO PLANS FOR CONSTRAINTS ON PHYSICAL DIMENSIONS AND CLEARANCE REQUIREMENTS OF EQUIPMENT. PROVIDE EQUIPMENT DIMENSIONS THAT FALL WITHIN THE CONSTRAINTS OF EACH SPECIFIC LOCATION.
3. ALL EQUIPMENT SHALL BE CONSTRUCTED AND BRACED FOR THE SEISMIC CONDITIONS OF THE PROJECT. REFER TO ELECTRICAL SPECIFICATIONS FOR REQUIREMENTS.
4. PROVIDE PERFORMANCE TESTING FOR GROUND-FAULT PROTECTION SYSTEMS ON SITE WITH A WRITTEN RECORD OF THIS TEST SUBMITTED TO THE AUTHORITY HAVING JURISDICTION PER 2011 NEC 230.95(C).
5. CONTRACTOR MUST PROVIDE A FULLY COORDINATED CIRCUIT BREAKER SOLUTION FOR THE LIFE SAFETY (EMERGENCY) DISTRIBUTION SYSTEM, COMPLETE COORDINATION OF OVERCURRENT DEVICES TO 0.03 SECONDS.

SHEET KEYNOTES

1. PROVIDE PERMANENT LABEL INDICATING PHASE ROTATION AND SYSTEM BONDING REQUIREMENTS PER NEC 700.3(F)(3).
2. PROVIDE CONTACT SIGNAL, CONDUIT, AND WIRING TO INDICATE SWITCH IS IN TEMPORARY EMERGENCY SOURCE POSITION AND THAT THE PERMANENT EMERGENCY SOURCE IS DISCONNECTED. INDICATION SHALL BE ANNUNCIATED AT REMOTE LOCATION.
3. PROVIDE NEW SQD BREAKER MATCHING EXISTING BREAKER IN GENERATOR. PROVIDE ADDITIONAL BUSSING HARDWARE FOR MOUNTING NEW BREAKER. NEW 2 BREAKER COVER PLATE SHALL BE PROVIDED FOR NEW SETUP.
4. CONTRACTOR TO PROVIDE PAD/VAULT PER UTILITY STANDARDS. TRANSFORMER PROVIDED BY UTILITY.
5. METER PROVIDED BY UTILITY.
6. EXISTING 80KW GENERATOR WITH 250A CB TO BE REMOVED, SALVAGED, AND REINSTALLED AS SHOWN ON DRAWINGS.
7. EXISTING 400A NEMA 3R ATS TO BE REMOVED, SALVAGED, AND REINSTALLED AS SHOWN ON DRAWINGS.

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REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
ONE-LINE DIAGRAM

SHEET NUMBER
EP601

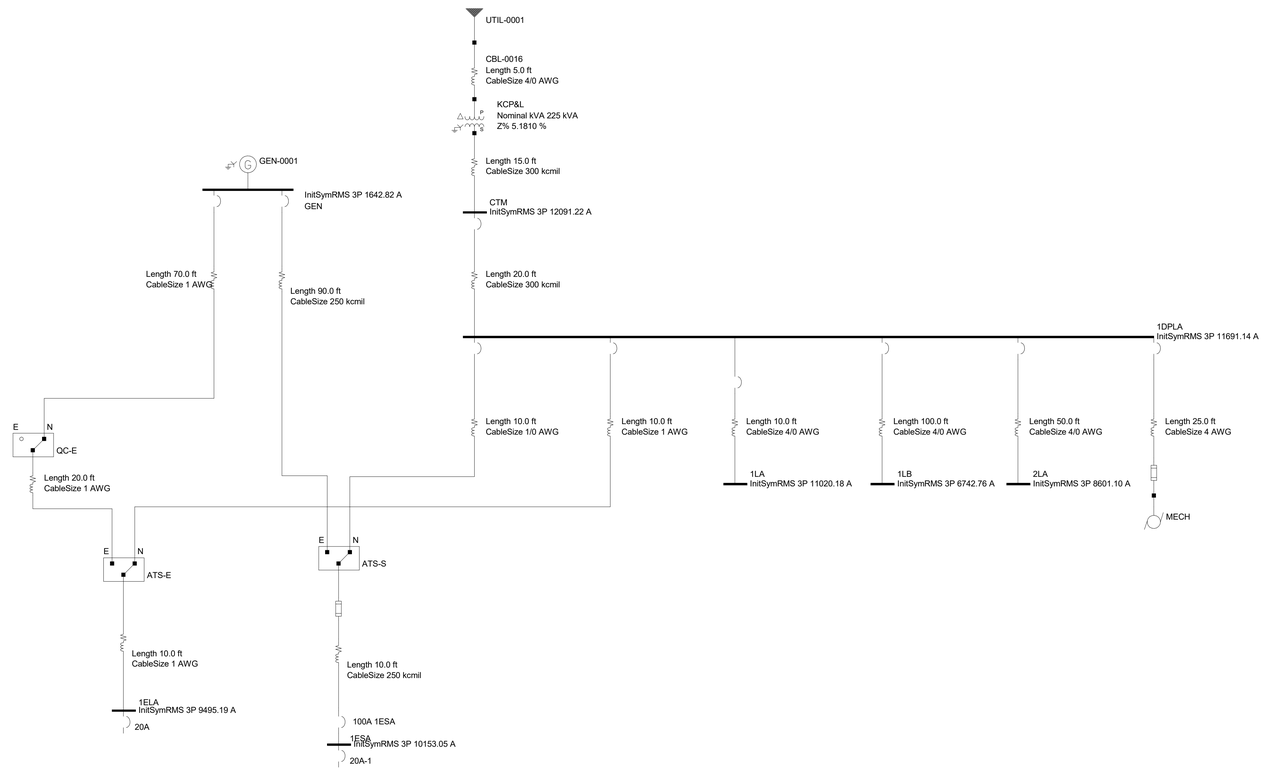
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SERVICE LOAD CALCULATIONS									
480Y/277 V MAIN SERVICE CALCULATION									
NEW CONSTRUCTION AREA FT²	22,000								
ELECTRICAL SERVICE VOLTAGE (V)	480								
ELECTRICAL SERVICE PHASE (PH)	3								
							NEC DEMAND		
DESCRIPTION:	KW	VA/FT²	HP	PF	KVA	FACTOR	LOAD (KVA)	LOAD (A)	NOTES
A. LIGHTING LOAD					0.0	125%	0	0	
B. RECEPTACLE LOAD FIRST 10 KVA					0.0	100%	0	0	2
C. RECEPTACLE LOAD REMAINING >10 KVA					0.0	50%	0	0	2
D. MOTOR LOAD					0.0	100%	0	0	3
E. HVAC LOAD					0.0	100%	0	0	3
F. KITCHEN EQUIPMENT LOAD					0.0	100%	0	0	
G. SPECIFIC APPLIANCES OR LOADS					0.0	100%	0	0	
H. MISCELLANEOUS LOAD					0.0	125%	0	0	
I. LARGEST MOTOR					0.0	25%	0	0	4
J. EXISTING BUILDING LOAD					0.0	100%	0	0	4
						TOTAL	0	0	
						BUILDING SERVICE SIZE (A)		1600	
						SERVICE SPARE CAPACITY (%)		100%	

208Y/120 V SERVICE CALCULATION									
NEW CONSTRUCTION AREA FT²	22,000								
ELECTRICAL SERVICE VOLTAGE (V)	208								
ELECTRICAL SERVICE PHASE (PH)	3								
							NEC DEMAND		
DESCRIPTION:	KW	VA/FT²	HP	PF	KVA	FACTOR	LOAD (KVA)	LOAD (A)	NOTES
A. LIGHTING LOAD		3.5			77.0	125%	96	267	
B. RECEPTACLE LOAD FIRST 10 KVA		1			10.0	100%	10	28	2
C. RECEPTACLE LOAD REMAINING >10 KVA		1			22.0	50%	11	31	2
D. MOTOR LOAD		0.75			16.5	100%	17	46	3
E. HVAC LOAD		3			66.0	100%	66	183	3
F. KITCHEN EQUIPMENT LOAD		0.5			11.0	100%	11	31	
G. SPECIFIC APPLIANCES OR LOADS					0.0	100%	0	0	
H. MISCELLANEOUS LOAD		1			22.0	125%	28	76	5
I. LARGEST MOTOR			20		18.7	25%	5	13	5
J. EXISTING BUILDING LOAD						100%	0	0	4
						TOTAL	243	674	
						BUILDING SERVICE SIZE (A)		800	
						SERVICE SPARE CAPACITY (%)		16%	

NOTES:
1. LIGHTING LOAD PER NEC 220.12.
2. LOAD BASED ON ACTUAL CALCULATED LOAD OR 1 VA/S.F. WHICHEVER IS GREATER. RECEPTACLE DEMAND FACTOR BASED ON NEC TABLE 220.44.
3. MOTOR LOAD CALCULATED AS PER NEC 220.50, 430.24, 430.25, 430.26, AND 440.6.
4. LARGEST MOTOR LOAD AS PER NEC 220.50, 430.24.
5. DEMAND FACTOR APPLIED FOR A TOTAL OF 44 RV SITES PER NEC 551.73(A).

B4 SERVICE CALC
SCALE: NTS



E3 FAULT CURRENT CALCULATIONS - FOR REFERENCE ONLY
SCALE: NTS

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SEAL

LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD. USE REFLECT LAST REVISION DATE.

NO.△	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
FAULT CURRENT CALCULATIONS - FOR REFERENCE ONLY

SHEET NUMBER
EP602

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FLOORBOX SCHEDULE

ABBREVIATIONS

COMPARTMENT GANG

- - NOT APPLICABLE
A/V - A/V CONNECTIONS, REFER TO A/V DRAWINGS/SPECIFICATIONS
D - DATA RECEPTACLE
DR - DUPLEX RECEPTACLE
QR - QUADRAPLEX RECEPTACLE

RATINGS

- - UL LISTED

USE

CF - CONCRETE FLOOR

FINISH

SN - SATIN NICKEL

CONNECTION

C1 - RECESSED CABLE CONNECTIONS BELOW FLOOR WITH HINGED LID FOR ACCESS THAT CAN BE CLOSED WHILE IN USE.

COVER

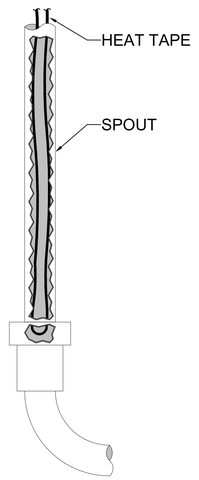
CV1 - FLANGED WITH CARPET INSERT FOR CARPET AREAS, FLANGELESS FLUSH GRAY NICKEL LID, CONFIRM WITH ARCHITECT PRIOR TO PROCUREMENT

NOTES:

1 PROVIDE ALL REQUIRED HARDWARE FOR COMPLETE INSTALLATION.

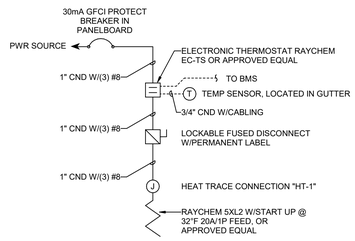
2 INCLUDE SEPARATION BARRIER BETWEEN SYSTEMS AND POWER.

		DIMENSIONS			COMPARTMENTS																	
ID	DESCRIPTION	LENGTH	WIDTH	DEPTH	GANG 1	GANG 2	GANG 3	GANG 4	GANG 5	GANG 6	GANG 7	GANG 8	RATINGS	USE	CONNECTION	COVER	FINISH	MANUFACTURER 1	PART #	MANUFACTURER 2	PART #	NOTES
FB8	8 GANG POWER/DATA AND A/V FLOORBOX	12"	10"	6"	DR	DR	D	D	A/V	A/V	A/V	A/V	-	CF	C1	CV1	SN	HUBBELL	CFB10 G55	WIREMOLD	-	



TYPICAL HEAT TAPE IN DRAIN PIPE

D1 SCALE: NTS



NOTE: PROVIDE ALL REQUIRED PARTS AND HARDWARE FOR A COMPLETE AND WORKING SYSTEM.

HEAT TRACE RISER

E1 SCALE: NTS

EQUIPMENT SCHEDULE

xxxxxxxx

EQUIPMENT SCHEDULE KEY
E - DIVISION 26
Q - FURNISHED WITH EQUIPMENT
* - COORDINATE WITH THE DIVISION 23 TEMPERATURE CONTROL INSTALLER
** - AUTOMATIC CONTROL WIRING BY DIVISION 23

NOTES:
1. NEMA 3R
2. TOGGLE SWITCH W/ THERMAL OVERLOAD
3. PROVIDE FUSED DISCONNECT ELEVATOR POWER MODULE WITH SHUNT TRIP
4. CONTRACTOR TO PERFOM FINAL CONNECTION TO LINE VOLTAGE THERMOSTATS
5. TOGGLE SWITCH W/BACNET INTERFACE.
6. INDOOR UNITS FED FROM OUTDOOR UNIT. PROVIDE DISCONNECTS FOR BOTH.
7. PROVIDE SWITCH WITH BACNET MS/TP CAPABILITY.
8. PROVIDE LABEL ON DISCONNECT "DISCONNECT OUTDOOR UNIT PRIOR TO INDOOR."
9. LINE VOLTAGE THERMOSTAT ON WALL.
10. PROVIDE EXPLOSION PROOF DEVICES AND WIRING METHODS.
11. PROVIDE DUAL-REDUNDANT 100% RATED VFD'S FOR AIR HANDLER.
12. PROVIDE MANUAL STARTER WITH THERMAL OVERLOAD AND RELAY FOR ATC/BAS CONTROL.

			LOAD DATA								OVERCURRENT PROTECTION			DISCONNECT			STARTER										
MARK	QTY	ITEM DESCRIPTION	HP	kW	MCA	FLA	VOLT	PH	Hz	WIRE AND CONDUIT SIZE	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	SIZES	SELECTOR SWITCH	PILOT LAMP	NORMALLY OPEN CONTACT	NORMALLY CLOSED CONTACT	PHASE FAILURE RELAY	NOTES	MARK
AC-1	1	AC UNIT (INTERIOR)	-	-	2	2	208	1	60	2 #10, 10 GR 0.75" CND	E	40/2 CB	1ESA	E	30A/2P FRS-5	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(6)	AC-1
AC-2	1	AC UNIT (INTERIOR)	-	-	1	1	208	1	60	2 #12, #12 GR 0.75" CND	E	30/2 CB	1ESA	E	30A/2P FRS-3	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(6)	AC-2
ATC	3	ATC	-	-	-	9.8	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB		E			Q	-	-	-	-	-	-	-		ATC
CU-1	1	AC UNIT (EXTERIOR)	-	-	26	21	208	1	60	2 #8, #10 GR 1" CND	E	40/2 CB	1ESA	E	60A/2P FRS-20	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	CU-1
CU-2	1	AC UNIT (EXTERIOR)	-	-	18	15	208	1	60	2 #10, 10 GR 0.75" CND	E	30/2 CB	1ESA	E	60A/2P FRS-20	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	CU-2
DH-1	1	DUCT HEATER	-	-	-	2	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	2LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		DH-1
EF-1	1	EXHAUST FAN	1/2	-	-	9.8	120	1	60	2 #12, 12 GR 0.75" CND	E	30/1 CB	2LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	EF-1
EF-2	1	EXHAUST FAN	-	-	-	2	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	1LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	EF-2
EF-3	1	EXHAUST FAN	-	-	-	1	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	1LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	EF-3
EF-4	1	EXHAUST FAN	-	-	-	1	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	1LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	EF-4
EF-5	1	EXHAUST FAN	-	-	-	1	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	1LB	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	EF-5
EF-6	1	EXHAUST FAN	-	-	-	1	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	1LB	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	EF-6
EF-7	1	EXHAUST FAN	-	-	-	1	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	1LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	EF-7
EF-8	1	EXHAUST FAN	-	-	-	1	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	1ESA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	EF-8
EUH-1	1	ELECTRIC UNIT HEATER	-	3	15	14.5	208	1	60	2 #12, 12 GR 0.75" CND	E	-	1LA	E	30A/2P FRS-20	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		EUH-1
F-1	1	FURNACE	1/2	-	-	9.8	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	1LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	F-1
F-2	1	FURNACE	1/2	-	-	9.8	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	1LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	F-2
F-3	1	FURNACE	1/2	-	-	9.8	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	2LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	F-3
F-4	1	FURNACE	1/2	-	-	9.8	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	2LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	F-4
F-5	1	FURNACE	1/2	-	-	9.8	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	2LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	F-5
F-6	1	FURNACE	1/2	-	-	9.8	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	2LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	F-6
F-7	1	FURNACE	1/2	-	-	9.8	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	2LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	F-7
F-8	1	FURNACE	1/2	-	-	9.8	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	2LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	F-8
F-9	1	FURNACE	3/4	-	-	13.8	120	1	60	2 #12, 12 GR 0.75" CND	E	30/1 CB	2LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	F-9
F-10	1	FURNACE	1/2	-	-	9.8	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	2LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	F-10
F-11	1	FURNACE	1/2	-	-	9.8	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	2LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	F-11
F-12	1	FURNACE	1/2	-	-	9.8	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	2LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(2)	F-12
HP-1	1	HEAT PUMP	2	-	13.6	11.5	208	1	60	2 #12, 12 GR 0.75" CND	E	20/2 CB	2LA	E	30A/2P FRS-15	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	HP-1
HP-2	1	HEAT PUMP	2	-	17	13.2	208	1	60	2 #10, 10 GR 0.75" CND	E	30/2 CB	2LA	E	30A/2P FRS-25	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	HP-2
HP-3	1	HEAT PUMP	2	-	13.6	11.5	208	1	60	2 #12, 12 GR 0.75" CND	E	20/2 CB	2LA	E	30A/2P FRS-15	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	HP-3
HP-4	1	HEAT PUMP	2	-	13.6	11.5	208	1	60	2 #12, 12 GR 0.75" CND	E	20/2 CB	2LA	E	30A/2P FRS-15	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	HP-4
HP-5	1	HEAT PUMP	2	-	13.6	11.5	208	1	60	2 #12, 12 GR 0.75" CND	E	20/2 CB	2LA	E	30A/2P FRS-15	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	HP-5
HP-6	1	HEAT PUMP	2	-	13.6	11.5	208	1	60	2 #12, 12 GR 0.75" CND	E	20/2 CB	2LA	E	30A/2P FRS-15	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	HP-6
HP-7	1	HEAT PUMP	2	-	17	13.2	208	1	60	2 #10, 10 GR 0.75" CND	E	30/2 CB	2LA	E	30A/2P FRS-25	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	HP-7
HP-8	1	HEAT PUMP	2	-	17	13.2	208	1	60	2 #10, 10 GR 0.75" CND	E	30/2 CB	2LA	E	30A/2P FRS-25	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	HP-8
HP-9	1	HEAT PUMP	3	-	24	19	208	1	60	2 #8, #10 GR 1" CND	E	50/2 CB	2LA	E	40A/2P FRS-40	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	HP-9
HP-10	1	HEAT PUMP	2	-	17	13.2	208	1	60	2 #10, 10 GR 0.75" CND	E	30/2 CB	2LA	E	30A/2P FRS-25	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	HP-10
HP-11	1	HEAT PUMP	2	-	17	13.2	208	1	60	2 #10, 10 GR 0.75" CND	E	30/2 CB	2LA	E	30A/2P FRS-25	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	HP-11
HP-12	1	HEAT PUMP	2	-	13.6	11.5	208	1	60	2 #12, 12 GR 0.75" CND	E	20/2 CB	2LA	E	30A/2P FRS-15	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	HP-12
HT	2	HEAT TRACE	-	.6	-	5	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1CB (30mA GFCI)	1LA	E	30A/1P NF	1LA	Q	-	-	-	-	-	-	-		HT
OSA-1	1	OUTSIDE AIR FAN	1	-	-	8.8	208	1	60	2 #12, 12 GR 0.75" CND	E	20/2 CB	2LA	E	30A/2P FRS-15	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		OSA-1
RTU-1	1	ROOF TOP UNIT	-	-	65	52	208	3	60	3 #4, #8 GR 1.25" CND	E	80/3 CB	1DPLA	E	100A/3P FRS-70	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	(1)	RTU-1
WC-1	4	WATER CLOSET		-	-		120	1	60		E			E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		WC-1
WH-1	1	WATER HEATER	-	-	-	1	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	1LA	E	TOGGLE SWITCH	ADJ TO EQUIP	Q	-	-	-	-	-	-	-		WH-1

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SEAL

LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD. USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1
2	06-28-2019	ADDENDUM 2

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
EQUIPMENT SCHEDULE

SHEET NUMBER
EP603

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8/16/2019 9:03:49 AM

PANEL: "1LB"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	1DPLA	SURFACE	HALL H100	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — **AIC RATING:** 10000

CKT	OCP			LOAD (kVA)				PHASE LOAD				LOAD (kVA)			OCP			CKT
NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A	B	C	DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	NO
1	20	1		0.0	0.0	0.0	OTHER	0.0 0.4			CO RM 110, 107, 112, 111, 113, 110	0.4	0.0	0.0		1	20	2
3	20	1		0.3	0.0	0.0	LTG COUNCIL CONFERENCE 114		0.3 0.9		LIGHTING HALL H100 (1RA-5)	0.0	0.0	0.9		1	20	4
5	20	1		0.0	0.0	0.5	CO COUNCIL CHAMBERS 108A			0.5 0.3	MOTOR (WC-1) CHASE 126	0.0	0.3	0.0		1	20	6
7	20	1		0.0	1.3	0.0	MOTOR (WC-1) CHASE 126	1.3 0.0			SPARE	--	--	--		--	--	8
9	20	1		0.0	0.0	1.3	CO IT MANAGER 117		1.3 0.1		MOTOR (EF-6) KITCHENETTE 111	0.0	0.1	0.0		1	30	10
11	20	1		0.0	0.7	0.0	POWER HALL H100			0.7 0.7	CO ADMIN DEPARTMENT 133	0.7	0.0	0.0		1	20	12
13	20	1		0.0	0.2	0.0	FAMILY RR 106 (WC-1)	0.2 0.2			CO KITCHENETTE 111	0.2	0.0	0.0		1	20	14
15	20	2		0.0	0.4	0.0	POWER PROSECUTOR 119		0.2 0.2		JBOX HAND DRYER MEN 131	0.0	0.2	0.0		1	20	16
17	--	--		--	--	--	--			0.2 0.0	SPARE	--	--	--		1	20	18
19	20	1		0.0	0.0	0.2	CO KITCHENETTE 111	0.2 0.7			CO COUNCIL CHAMBERS 108A	0.7	0.0	0.0		1	20	20
21	20	1		0.0	0.0	0.2	CO KITCHENETTE 111		0.2 0.7		CO COUNCIL CHAMBERS 108A	0.7	0.0	0.0		1	20	22
23	20	1		0.0	0.2	0.0	JBOX HAND DRYER WOMEN 130			0.2 0.2	CO KITCHENETTE 111	0.2	0.0	0.0		1	20	24
25	20	1		0.0	0.0	0.7	CO ADMIN DEPARTMENT 133	0.7 0.9			CO COUNCIL CONFERENCE 114	0.9	0.0	0.0		1	20	26
27	20	1		0.0	0.0	0.7	CO COMMUNITY DEVELOPMENT...		0.7 0.9		CO IT TECHNICIAN 131	0.9	0.0	0.0		1	20	28
29	20	1		0.0	0.0	0.7	CO ROOM 124, 132, 133, 125			0.7 0.7	CO COMMUNITY DEVELOPMENT 137	0.7	0.0	0.0		1	20	30
31	20	1		0.0	0.0	1.1	CO PREFUNCTION 104	1.1 0.0			SPARE	--	--	--		1	20	32
33	20	1		0.0	0.0	1.1	CO ROOM 105, 106, 108, 112		1.1 0.0		SPARE	--	--	--		1	20	34
35	20	1		0.0	0.0	0.9	CO MEN 131			0.9 1.1	CO SW CORRIDORS	1.1	0.0	0.0		1	20	36
37	20	1		--	--	--	SPARE	0.0 0.0			SPARE	--	--	--		1	20	38
39	20	1		--	--	--	SPARE		0.0 0.0		SPARE	--	--	--		1	20	40
41	20	1		--	--	--	SPARE			0.0 0.0	SPARE	--	--	--		1	20	42
43	20	1		--	--	--	SPARE	0.0 0.0			SPARE	--	--	--		1	20	44
45	20	1		--	--	--	SPARE		0.0 0.0		SPARE	--	--	--		1	20	46
47	20	1		--	--	--	SPARE			0.0 0.0	SPARE	--	--	--		1	20	48
49	20	1		--	--	--	SPARE	0.0 0.0			SPARE	--	--	--		1	20	50
51	20	1		--	--	--	SPARE		0.0 0.0		SPARE	--	--	--		1	20	52
53	20	1		--	--	--	SPARE			0.0 0.0	SPARE	--	--	--		1	20	54
55	20	1		--	--	--	SPARE	0.0 0.0			SPARE	--	--	--		1	20	56
57	20	1		--	--	--	SPARE		0.0 0.0		SPARE	--	--	--		1	20	58
59	20	1		--	--	--	SPARE			0.0 0.0	SPARE	--	--	--		1	20	60
61	20	1		--	--	--	SPARE	0.0 0.0			SPARE	--	--	--		1	20	62
63	20	1		--	--	--	SPARE		0.0 0.0		SPARE	--	--	--		1	20	64
65	20	1		--	--	--	SPARE			0.0 0.0	SPARE	--	--	--		1	20	66
67	20	1		--	--	--	SPARE	0.0 0.0			SPARE	--	--	--		1	20	68
69	20	1		--	--	--	SPARE		0.0 0.0		SPARE	--	--	--		1	20	70
71	20	1		--	--	--	SPARE			0.0 0.0	SPARE	--	--	--		1	20	72
73	20	1		--	--	--	SPARE	0.0 0.0			SPARE	--	--	--		1	20	74
75	30	2		--	--	--	SPARE		0.0 0.0		SPARE	--	--	--		2	20	76
77	--	--		--	--	--	--			0.0 0.0	--	--	--	--		--	--	78
79	30	3		--	--	--	SPARE	0.0 0.0			SPARE	--	--	--		3	20	80
81	--	--		--	--	--	--		0.0 0.0		--	--	--	--		--	--	82
83	--	--		--	--	--	--			0.0 0.0	--	--	--	--		--	--	84
TOTALS:							CONNECTED kVA PER PHASE	**6**	**7**	**6**	CONNECTED TOTAL kVA =						**18**	
							CONNECTED AMPS PER PHASE	**47**	**55**	**53**	AVERAGE CONNECTED AMPS PER PHASE =						**51**	

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: **1.2 kVA @ 125% = 1.5 kVA** - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **17**

RECEPTACLES: **13.9 kVA @ 86% = 11.9 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **47**

ALL OTHER LOADS @ 100% : **3.6 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "2LA"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	1DPLA	SURFACE	MECHANICAL 218	

ACCESSORIES: MULTI-TAP CONTROL PANEL TRANSFORMER — **AIC RATING:** 10000

CKT	OCP			LOAD (kVA)				PHASE LOAD				LOAD (kVA)			OCP			CKT
NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A	B	C	DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	NO
1	20	1		0.2	0.0	0.0	LIGHTING STORAGE 219	0.2 0.2			MOTOR (DH-1) MECH 216	0.0	0.2	0.0		1	20	2
3	20	1		0.0	0.0	0.7	CO ROOF		0.7 0.9		CO ROOM 218, 217, 219	0.9	0.0	0.0		1	20	4
5	20	1		0.0	0.0	0.9	CO MECHANICAL 216			0.9 2.0	MOTOR (HP-9) ROOF	0.0	3.9	0.0		2	50	6
7	20	1		0.0	0.7	0.0	MOTOR (F-6) MECH 218	0.7 2.0			--	--	--	--		--	--	8
9	30	1		0.0	0.9	0.0	MOTOR (F-9) MECH 216		0.9 0.9		MOTOR (OSA-1) MECH 216	0.0	1.8	0.0		2	20	10
11	20	1		0.0	0.7	0.0	MOTOR (F-8) MECH 216			0.7 0.9	--	--	--	--		--	--	12
13	20	2		0.0	2.4	0.0	MOTOR (HP-1) ROOF	1.2 1.4			MOTOR (HP-10) ROOF	0.0	2.7	0.0		2	30	14
15	--	--		--	--	--	--		1.2 1.4		--	--	--	--		--	--	16
17	20	1		--	--	--	SPARE			0.0 0.7	MOTOR (F-5) MECH 218	0.0	0.7	0.0		1	20	18
19	20	1		--	--	--	SPARE	0.0 0.7			MOTOR (F-3) MECH 218	0.0	0.7	0.0		1	20	20
21	20	1		--	--	--	SPARE		0.0 0.7		MOTOR (F-7) MECH 218	0.0	0.7	0.0		1	20	22
23	20	1		--	--	--	SPARE			0.0 0.7	MOTOR (F-12) MECH 216	0.0	0.7	0.0		1	20	24
25	20	1		0.0	0.7	0.0	MOTOR (F-10) MECH 216	0.7 0.7			MOTOR (ATC) MECH 216	0.0	0.7	0.0		1	20	26
27	20	1		0.0	0.7	0.0	MOTOR (F-4) MECH 218		0.7 0.7		MOTOR (F-11) MECH 216	0.0	0.7	0.0		1	20	28
29	20	1		--	--	--	SPARE			0.0 0.7	MOTOR (EF-1) MECH 216	0.0	0.7	0.0		1	30	30
31	20	1		--	--	--	SPARE	0.0 1.2			MOTOR (HP-6) ROOF	0.0	2.4	0.0		2	20	32
33	20	1		0.0	0.7	0.0	MOTOR (ATC) MECH 218		0.7 1.2		--	--	--	--		--	--	34
35	30	2		0.0	2.7	0.0	MOTOR (HP-8) ROOF			1.4 0.0	SPARE	--	--	--		1	20	36
37	--	--		--	--	--	--	1.4 1.2			MOTOR (HP-3) ROOF	0.0	2.4	0.0		2	20	38
39	30	2		0.0	2.7	0.0	MOTOR (HP-7) ROOF		1.4 1.2		--	--	--	--		--	--	40
41	--	--		--	--	--	--			1.4 1.2	MOTOR (HP-5) ROOF	0.0	2.4	0.0		2	20	42
43	20	1		--	--	--	SPARE	0.0 1.2			--	--	--	--		--	--	44
45	20	2		0.0	2.4	0.0	MOTOR (HP-4) ROOF		1.2 1.2		MOTOR (HP-12) ROOF	0.0	2.4	0.0		2	20	46
47	--	--		--	--	--	--			1.2 1.2	--	--	--	--		--	--	48
49	30	2		0.0	2.7	0.0	MOTOR (HP-11) ROOF	1.4 0.0			SPARE	--	--	--		3	30	50
51	--	--		--	--	--	--		1.4 0.0		--	--	--	--		--	--	52
53	30	2		0.0	2.7	0.0	MOTOR (HP-2) ROOF			1.4 0.0	--	--	--	--		--	--	54
55	--	--		--	--	--	--	1.4 0.0			SPARE	--	--	--		1	20	56
57	20	1		--	--	--	SPARE		0.0 0.0		SPARE	--	--	--		1	20	58
59	20	1		--	--	--	SPARE			0.0 0.0	SPARE	--	--	--		1	20	60
61	20	1		--	--	--	SPARE	0.0 0.0			SPARE	--	--	--		1	20	62
63	20	1		--	--	--	SPARE		0.0 0.0		SPARE	--	--	--		1	20	64
65	20	1		--	--	--	SPARE			0.0 0.0	SPARE	--	--	--		1	20	66
67	20	1		--	--	--	SPARE	0.0 0.0			SPARE	--	--	--		1	20	68
69	20	1		--	--	--	SPARE		0.0 0.0		SPARE	--	--	--		1	20	70
71	20	1		--	--	--	SPARE			0.0 0.0	SPARE	--	--	--		1	20	72
73	20	2		--	--	--	SPARE	0.0 0.0			SPARE	--	--	--		1	20	74
75	--	--		--	--	--	--		0.0 0.0		SPARE	--	--	--		2	20	76
77	30	1		--	--	--	SPARE			0.0 0.0	--	--	--	--		--	--	78
79	30	1		--	--	--	SPARE	0.0 0.0			SPARE	--	--	--		3	20	80
81	30	2		--	--	--	SPARE		0.0 0.0		--	--	--	--		--	--	82
83	--	--		--	--	--	--			0.0 0.0	--	--	--	--		--	--	84
TOTALS:							CONNECTED kVA PER PHASE	**15**	**16**	**14**	CONNECTED TOTAL kVA =						**46**	
							CONNECTED AMPS PER PHASE	**130**	**137**	**118**	AVERAGE CONNECTED AMPS PER PHASE =						**127**	

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: **0.2 kVA @ 125% = 0.3 kVA** - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **47**

RECEPTACLES: **2.5 kVA @ 100% = 2.5 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **130**

ALL OTHER LOADS @ 100% : **44.1 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "1LA"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	1DPLA	SURFACE	ELEC. 144	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — **AIC RATING:** 14000

CKT	OCP			LOAD (kVA)				PHASE LOAD				LOAD (kVA)			OCP			CKT
NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A	B	C	DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	NO
1	20	1		0.1	0.0	0.0	WALKWAY LIGHTING (1RA-7)	0.1 0.3			LIGHTING STAFF BREAK 148	0.0	0.0	0.3		1	20	2
3	20	1		0.0	0.0	0.2	CO DISPOSAL STAFF BREAK 148		0.2 0.4		CO IT BUILD & TEST 125	0.4	0.0	0.0		1	20	4
5	20	1		0.0	0.0	0.2	CO ADMIN COPIER AREA 124			0.2 0.4	POWER CLERKS 158	0.0	0.4	0.0		1	20	6
7	20	1		0.5	0.0	0.0	LIGHTING NORTH ENTRY (1RA-4)	0.5 0.7			MOTOR (F-1) MECH. 102	0.0	0.7	0.0		1	20	8
9	20	1		0.0	0.0	0.5	CO MEDIUM CONFERENCE ROO...		0.5 0.7		MOTOR (F-2) MECH. 102	0.0	0.7	0.0		1	20	10
11	20	1		0.7	0.0	0.0	LIGHTING NORTHEAST OFFICES			0.7 0.7	CO BUILDING DEPARTMENT 134	0.7	0.0	0.0		1	20	12
13	20	1		0.0	0.0	0.7	CO BUILDING DEPARTMENT 134	0.7 1.0			LIGHTING MIDDLE OFFICES	0.0	0.0	1.0		1	20	14
15	20	1		0.8	0.0	0.0	LIGHTING CORRIDORS (1RA-2)		0.8 0.8		LIGHTING WAITING (1RA-1)	0.0	0.0	0.8		1	20	16
17	20	1		0.8	0.0	0.0	LTG EAST OPEN OFFICE (1RA-3)			0.8 0.9	CO ACCOUNTING 157	0.9	0.0	0.0		1	20	18
19	20	1		0.0	0.0	0.7	CO NE CORRIDORS	0.7 1.5			MOTOR (EUH-1) MECH. 145	0.0	3.0	0.0		2	20	20
21	20	1		0.0	0.0	1.1	CO ADMIN ASSIST. 152		1.1 1.5		--	--	--	--		--	--	22
23	20	1		1.2	0.0	0.0	LIGHTING RESTROOMS			1.2 0.3	POWER SW ENTRY ADA	0.2	0.1	0.0		1	20	24
25	20	2		0.0	0.4	0.0	POWER CLERKS 158	0.2 0.1			MOTOR TOILET 147	0.0	0.1	0.0		1	20	26
27	--	--		--	--	--	--		0.2 0.2		POWER OPEN OFFICE 119	0.0	0.4	0.0		2	20	28
29	20	1		0.0	0.1	0.0	MOTOR (EF-7) MECH. 102			0.1 0.2	--	--	--	--		--	--	30
31	20	1		0.0	0.7	0.0	ATC MECH 145	0.7 0.2			CO STAFF BREAK 149	0.2	0.0	0.0		1	20	32
33	20	1		0.0	0.1	0.2	POWER NE ENTRY ADA		0.3 0.1		MOTOR (WH-1) MECH. 145	0.0	0.1	0.0		1	20	34
35	20	1		0.0	0.0	0.2	CO STAFF BREAK 149			0.2 0.2	CO PLOTTER SCANNER AREA 157	0.2	0.0	0.0		1	20	36
37	20	1		0.0	0.0	0.2	CO COLOR COPIER AREA 157	0.2 0.2			CO ADMIN PLOTTER AREA 157	0.2	0.0	0.0		1	20	38
39	20	1		0.0	0.0	0.2	CO STAFF BREAK 149		0.2 0.2		CO IT BUILD & TEST 125	0.2	0.0	0.0		1	20	40
41	20	1		0.0	0.0	0.2	CO COLOR COPIER AREA 124			0.2 0.5	MOTOR (EF-2) STAFF BREAK 148	0.0	0.5	0.0		1	20	42
43	20	1		0.5	0.0	0.0	LTG EXTERIOR FLOODLTS (1RA-8)	0.5 0.7			CO MAYOR'S OFFICE 151	0.7	0.0	0.0		1	20	44
45	20	1		0.0	0.0	0.2	CO BW COPIER AREA 124		0.2 0.5		LTG SOUTH OPEN OFFICE	0.0	0.0	0.5		1	20	46
47	20	1		0.0	0.0	0.9	CO MEDIUM CONFERENCE 103			0.9 0.9	CO VAULT 136	0.9	0.0	0.0		1	20	48
49	20	1		0.0	0.0	0.9	CO ROOMS 140, 159	0.9 0.9			CO FINANCE 155	0.9	0.0	0.0		1	20	50
51	20	1		0.0	0.0	0.7	CO MEDIUM CONFERENCE 103		0.7 0.9		CO STAFF BREAK 149	0.9	0.0	0.0		1	20	52
53	20	1		0.0	0.0	0.9	CO ROOMS 139, 159			0.9 1.3	CO CONFERENCE 136	1.3	0.0	0.0		1	20	54
55	20	1		0.0	0.0	0.9	CO BUILDING OFFICIAL 122	0.9 1.1			CO ROOM 138, 137	1.1	0.0	0.0		1	20	56
57	20	1		0.0	0.0	0.9	CO HR/PAYROLL 153		0.9 0.9		CO BUILDING OFFICIAL 140	0.9	0.0	0.0		1	20	58
59	20	1		1.1	0.0	0.0	LIGHTING SOUTH OFFICES			1.1 1.3	CO NORTH ENTRY	1.3	0.0	0.0		1	20	60
61	20	1		0.0	0.0	1.3	CO CITY ATTORNEY 122	1.3 1.1			CO CONF. 141	1.1	0.0	0.0		1	20	62
63	20	1		0.0	0.0	1.1	CO TOILET 146		1.1 1.1		CO CONCIERGE 101	1.1	0.0	0.0		1	20	64
65	20	1	GF3	0.0	0.6	0.0	HEAT TRACE (HT)			0.6 0.0	SPARE	--	--	--		1	20	66
67	20	1	GF3	0.0	0.6	0.0	HEAT TRACE (HT)	0.6 0.0			SPARE	--	--	--		1	20	68
69	20	1		--	--	--	SPARE		0.0 0.0		SPARE	--	--	--		1	20	70
71	20	1		--	--	--	SPARE			0.0 0.0	SPARE	--	--	--		1	20	72
73	20	1		--	--	--	SPARE	0.0 0.0			SPARE	--	--	--		1	20	74
75	20	1		--	--	--	SPARE		0.0 0.0		SPARE	--	--	--		2	20	76
77	30	1		--	--	--	SPARE			0.0 0.0	--	--	--	--		--	--	78
79	30	1		--	--	--	SPARE	0.0 0.0			SPARE	--	--	--		3	20	80
81	40	2		--	--	--	SPARE		0.0 0.0		SPARE	--	--	--		2	20	82
83	--	--		--	--	--	--			0.0 0.0	--	--	--	--		--	--	84
TOTALS:							CONNECTED kVA PER PHASE	**15**	**13**	**13**	CONNECTED TOTAL kVA =						**42**	
							CONNECTED AMPS PER PHASE	**126**	**111**	**111**	AVERAGE CONNECTED AMPS PER PHASE =						**116**	

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: **8.1 kVA @ 125% = 10.2 kVA** - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **37**

RECEPTACLES: **25.0 kVA @ 70% = 17.5 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **103**

ALL OTHER LOADS @ 100% : **9.2 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

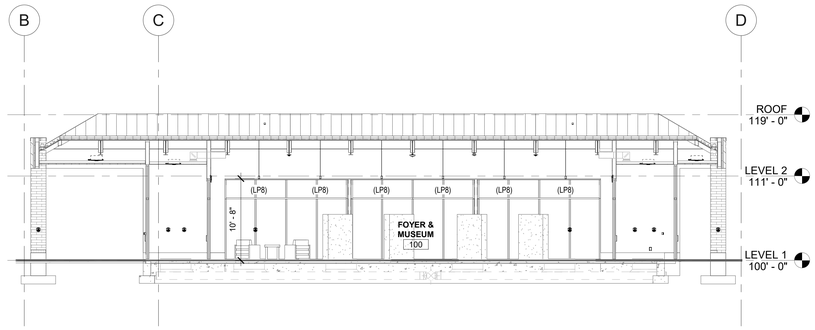
BKR: GF=GFCI, GF3=30mA GFCI CAPABLE OF BEING LOCAKED OUT IN OPEN POSITION, IG=ISOLATED GROUND, AF=AFCI, ST=SHUNT TRIP, RED=PROVIDE RED COLORED BREAKER, AF=ARC FAULT CURRENT INTERRUPTER, GA=COMBINATION OF GROUND FAULT AND ARC FAULT CIRCUIT INTERRUPTER, GS=COMBINATION OF SHUNT TRIP WITH GFCI

PANEL: "1ELA"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	FED FROM:	CABINET:	LOCATION:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	100 AMPERE MAIN LUGS	1DPLA	SURFACE	ELEC. 144	

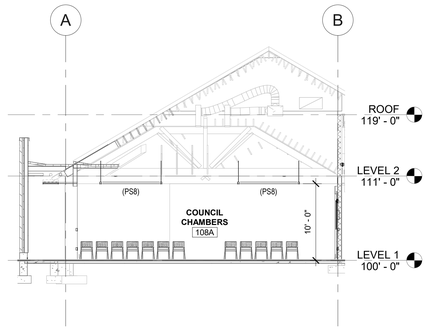
ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — **AIC RATING:** 14000

CKT	OCP			LOAD (kVA)				PHASE LOAD				LOAD (kVA)			OCP			CKT
NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION	A	B	C	DESCRIPTION	CO	PWR	LTG	BKR	POLE	AMP	NO
1	20	1		0.0	0.0	0.5	CO AV 113	0.5 0.7			CO IT ROOM 143	0.7	0.0	0.0		1	20	2
3	20	1		0.0	0.0	0.7	CO ELEC. 144		0.7 1.0		"ACS" IT ROOM 143	0.0	1.0	0.0		1	20	4
5	20	1		0.0	0.0	0.4	CO MEDIUM CONFERENCE ROO...			0.4 0.7	CO IT ROOM 143	0.7	0.0	0.0		1	20	6
7	20	2		0.0	2.1	0.0	POWER IT ROOM 143	1.0 1.0			POWER IT ROOM 143	0.0	2.1	0.0		2	20	8
9	--	--		--	--	--	--		1.0 1.0		--	--	--	--		--	--	10
11	20	2		0.0	2.1	0.0	POWER IT ROOM 143			1.0 0.7	CO IT ROOM 143	0.7	0.0	0.0		1	20	12
13	--	--		--	--	--	--	1.0 0.7			CO IT ROOM 143	0.7	0.0	0.0		1	20	14
15	20	2		0.0	2.1	0.0	POWER IT ROOM 143		1.0 0.7		CO COUNCIL CONFERENCE 114	0.7	0.0	0.0		1	20	16
17	--	--		--	--	--	--			1.0 0.7	CO DAIS 108B	0.7	0.0	0.0		1	20	18
19	20	1		0.0	1.5	0.0	PROJECTOR	1.5 1.1			CO COUNCIL CHAMBERS 108A	1.1	0.0	0.0		1	20	20
21	20	1		0.0	0.0	0.7	CO COUNCIL CHAMBERS 108A		0.7 0.9		CO IT TECHNICIAN 129	0.9	0.0	0.0		1	20	22
23	20	1		0.0	0.0	0.7	CO ROOM 127			0.7 0.5	CO ROOM 127	0.5	0.0	0.0		1	20	24
25	20	1		0.0	0.0	0.7	CO IT TECH. 123	0.7 0.9			CO MAYOR'S OFFICE 151	0.9	0.0	0.0		1	20	26
27	20	1		0.0	0.0	0.7	CO MEDIUM CONFERENCE ROO...		0.7 0.7		CO MEDIUM CONFERENCE ROOM 149	0.7	0.0	0.0		1	20	28
29	20	1		0.0	0.0	0.9	CO CITY MANAGER 150			0.9 2.3	MOTOR (CU/AC-2) AV 113	0



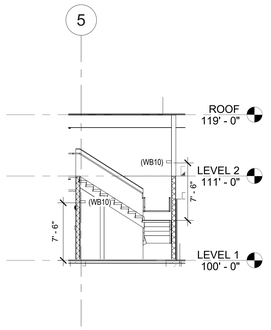
A1 LP8 PENDANT ELEVATION SECTION

SCALE: 1/8" = 1'-0"



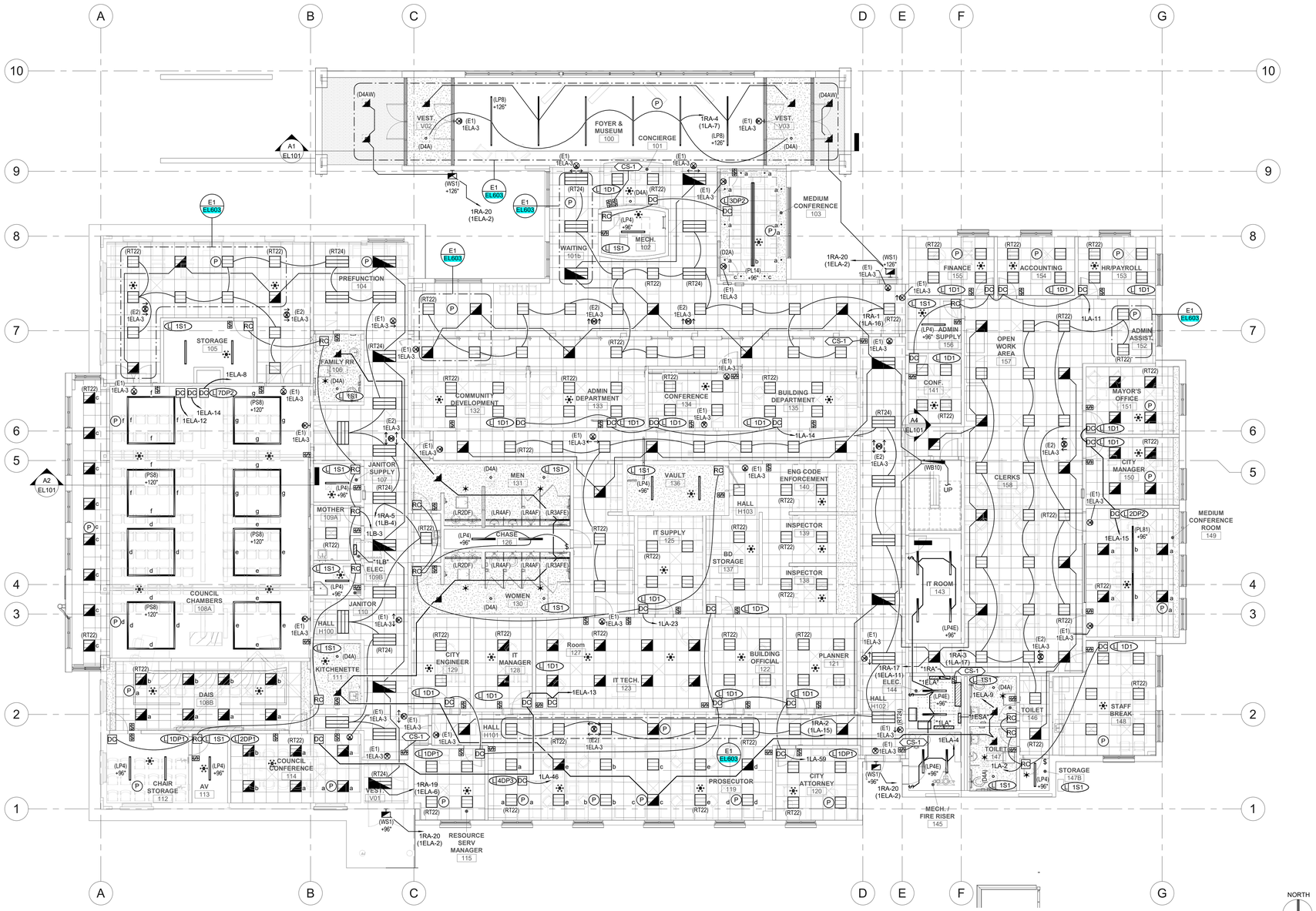
A2 PS8 PENDANT ELEVATION SECTION

SCALE: 1/8" = 1'-0"



A4 STAIR 143 SECTION

SCALE: 1/8" = 1'-0"



E1 LEVEL 1 LIGHTING PLAN

SCALE: 1/8" = 1'-0"

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GENERAL SHEET NOTES

1. UNLESS NOTED OTHERWISE, ELECTRICAL ITEMS SHOWN IN DARK AND SOLID LINES ARE NEW AND THE CONTRACTOR SHALL PROVIDE THEM. ITEMS SHOWN IN SOLID LIGHT LINES ARE TO REMAIN.
2. CONTRACTOR SHALL UPDATE PANEL SCHEDULES WITH NEW CIRCUIT DATA TYPED ON CARD STOCK TYPE MATERIAL.
3. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHT FIXTURES ON THIS LEVEL WITH MECHANICAL EQUIPMENT, DUCT, PIPE, PLUMBING, ETC. PRIOR TO ROUGH-IN.
4. ALL EXPOSED CONDUITS ROUTED IN CEILING SHALL BE PAINTED TO MATCH CEILING.
5. ALL CEILING MOUNTED DEVICES LOCATED IN LAY-IN GRID CEILINGS SHALL BE INSTALLED CENTERED IN CEILING TILES AND/OR ALIGNED WITH OTHER FIXTURES WITHIN THE SAME PLANE AND CEILING SPACE.
6. LIGHTING CONTROL DIMMING AND ROOM CONTROLLER SHALL BE LOCATED AS FOLLOWS WHERE POSSIBLE UNLESS NOTED OTHERWISE. LOCATE ABOVE ACCESSIBLE CEILING NEAR THE DOOR THAT CONTROLLER SERVES BUT OUT OF THE PATH OF EGRESS.
7. ALLOW A MINIMUM OF 4" CLEARANCE ABOVE ALL CEILING MOUNTED RECESSED LIGHT FIXTURES. COORDINATE LOCATIONS AND LIGHT FIXTURE DEPTHS WITH ALL OTHER TRADES PRIOR TO ROUGH-IN.
8. COORDINATE HEIGHTS OF ALL PENDANT MOUNT LIGHTS WITH ARCHITECTURAL CEILING HEIGHTS AND AV EQUIPMENT HEIGHTS.
9. REFER TO LIGHTING/SPACE CONTROL TYPE SCHEDULES FOR WIRING DIAGRAMS OF EACH SPACE.

SHEET KEYNOTES

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KAYSVILLE CITY MUNICIPAL BUILDING ADDITION & RENOVATION

23 EAST CENTER STREET
KAYSVILLE, UTAH 84037

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SEAL

LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

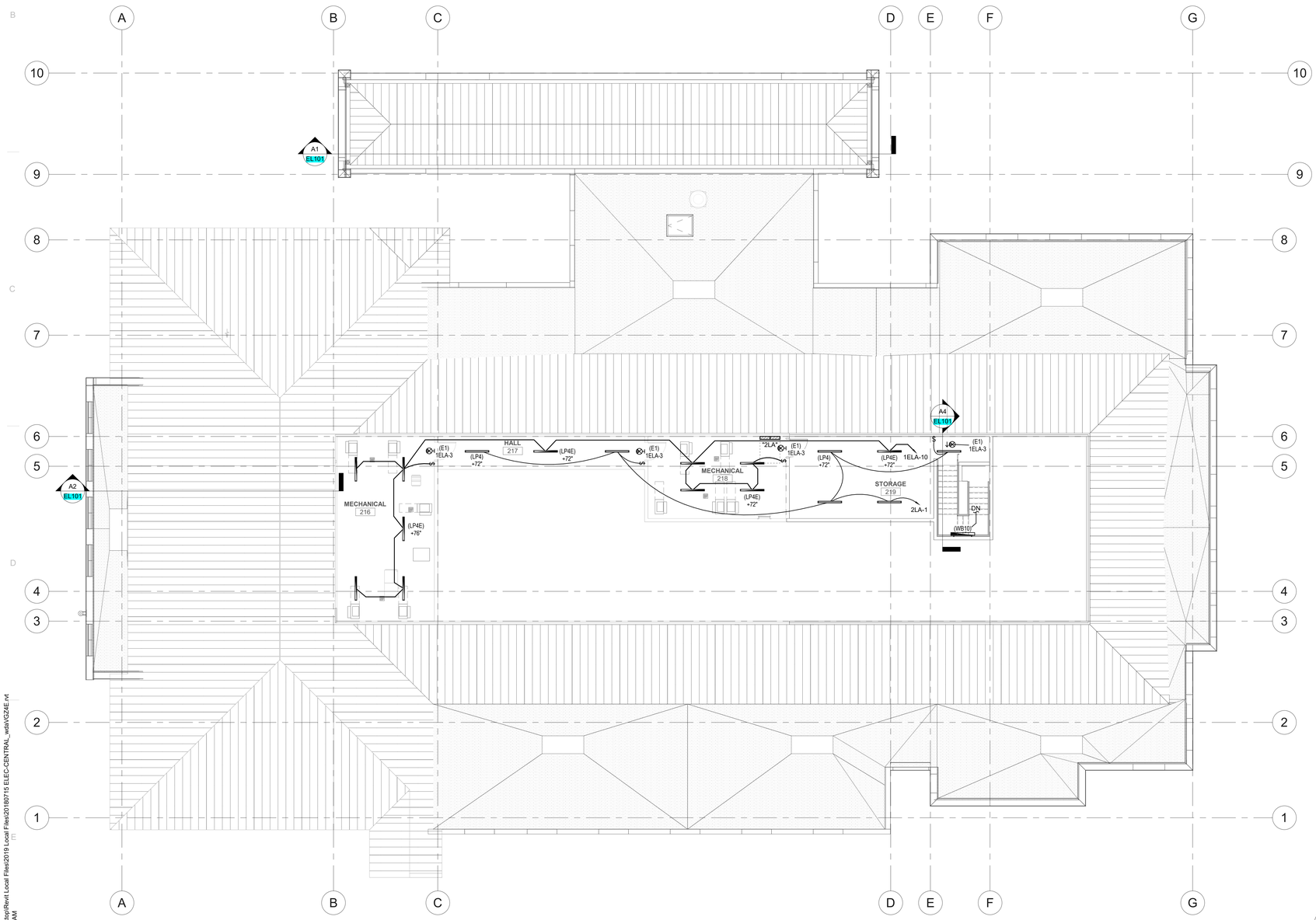
REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1
2	06-28-2019	ADDENDUM 2

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
LEVEL 1
LIGHTING PLAN

SHEET NUMBER
EL101



E1 LEVEL 2 LIGHTING PLAN

SCALE: 1/8" = 1'-0"

NORTH

0 4' 8' 16'

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GENERAL SHEET NOTES

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8 COORDINATE HEIGHTS OF ALL PENDANT MOUNT LIGHTS WITH ARCHITECTURAL CEILING HEIGHTS AND AV EQUIPMENT HEIGHTS.

9 REFER TO LIGHTING/SPACE CONTROL TYPE SCHEDULES FOR WIRING DIAGRAMS OF EACH SPACE.

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SEAL

LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Hawkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
LEVEL 2
LIGHTING PLAN

SHEET NUMBER
EL102

INTERIOR LIGHTING FIXTURE SCHEDULE

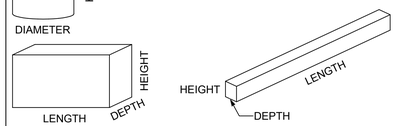
ABBREVIATIONS

MOUNTING

- B - BASE
- C - CEILING
- F - FLANGE
- G - GRID
- P - PENDANT
- PL - POLE
- R - RECESSED
- S - SURFACE
- W - WALL

LUMINAIRE OPTIONS

- ARHR - AIR RETURN AND HEAT REJECTION
- DL - DAMP LOCATION
- EQC - EARTHQUAKE CLIPS
- ET - EMERGENCY TRANSFER
- F - FUSING
- HLD - HINGED AND LATCHED DOOR
- HS - HOUSE SIDE SHIELD
- PS - PHOTOCELL SWITCH
- QRS - QUARTZ RESTRIKE
- ST - STATIC
- WG - WIRE GUARD
- WL - WET LOCATION



FINISH

- MW - MATTE WHITE
- BL - BLACK
- SL - SILVER
- GL - GOLD
- CL - CLEAR
- PW - PAINTED WHITE
- EA - EXTRUDED ALUMINUM
- S - STEEL
- GS - GALVANIZED STEEL
- C - CAST
- CBA - COLOR BY ARCHITECT
- SCBA - STANDARD COLOR BY ARCHITECT
- CCA - CUSTOM COLOR BY ARCHITECT
- FS 209D - MEETS FEDERAL STANDARD 209D
- TP - THERMALLY PROTECTED
- FL - FLUSH
- R - REGRESS
- M - MITERED

DIFFUSER/LENS

- #A - ACRYLIC #THICK
- #OA - ACRYLIC #THICK (OPAL)
- GC - GLASS (CLEAR)
- GO - GLASS (OPAL)
- GF - GLASS (FROSTED)
- SGL - SOFT GLOW LENS
- HPL - HIGH PERFORMANCE LENS
- DO - DROP OPAL
- CGL - CONVEX GLASS LENS
- S - SATIN LENS

REFLECTOR

- OP - NONE/OPEN
- SP - SPECULAR
- SS - SEMI-SPECULAR
- D - DIFFUSE (WHITE ENAMEL)
- SC - SPECULAR (COLORED)
- PR - PRISMATIC
- FDR - FULL DEPTH REFLECTOR
- DS - DIFFUSE (SEMI SPECULAR) SILVER
- LI - LOW IRIDESCENT
- IR - IRIDESCENT
- SL - SILVER
- GL - GOLD
- CA - CLEAR ALZAK

NOTES

GENERAL NOTES

1. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER.
2. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES.
3. SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL PRIOR TO BIDDING, THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THAN 2 WEEKS PRIOR TO BID OPENING.
4. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E REQUEST PRIOR TO RELEASING FIXTURES.
5. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED USE AND LOCATION.
6. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS.
7. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS.
8. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, DRIVERS, AND LAMPS.
9. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTED OR TO BE APPROVED BY ARCHITECT/ENGINEER AND OWNER.

		NOMINAL SIZE																	MANUFACTURER (CATALOG SERIES)			
ID	DESCRIPTION	LENGTH	DEPTH	HEIGHT	DIAMETER/ APERTURE	MOUNTING	TYPE	COLOR TEMP	CRI	DRIVER CONFIGURATION	VOLTAGE	WATTS	FINISH	FIXTURE LUMENS	DIFFUSER/LENS	REFLECTOR	OPTIONS	NOTES	OPTION 1	OPTION 2	OPTION 3	OPTION 4
(D2A)	2" RECESSED ROUND DOWNLIGHT LED (OPEN REFLECTOR)	16"	16"	6"	2"	F	LED	4000K	80	LED DRIVER (0-10V DIMMING) 10%	120/277	10	CL	750	-	SS	-		GOTHAM (ICO-4/007-2AR-LSS-45D-MVOLT-UGZ-NCH)	CONTECH (R2RM-)	ALPHABET ECO NU2 (624)	WILLIAMS (2DR)
(D4A)	4" RECESSED ROUND DOWNLIGHT LED (OPEN REFLECTOR)	16"	16"	6"	4"	F	LED	4000K	80	LED DRIVER (0-10V DIMMING) 10%	120/277	17	CL	1500	-	SS	-		GOTHAM (EVO-40/15-4AR-MVD-LSS-MVOLT-EZ10)	CONTECH (R4NC-)	HALO (HC4)	WILLIAMS (4DR)
(D4AE)	4" RECESSED ROUND DOWNLIGHT LED (OPEN REFLECTOR) WITH EMERGENCY TRANSFER	16"	16"	6"	4"	F	LED	4000K	80	LED DRIVER (0-10V DIMMING) 10%	120/277	17	CL	1500	-	SS	ET		GOTHAM (EVO-40/15-4AR-MVD-LSS-MVOLT-EZ10)	CONTECH (R4NC-)	HALO (HC4)	WILLIAMS (4DR)
(D4AW)	4" RECESSED ROUND DOWNLIGHT LED (OPEN REFLECTOR), WET LISTED	16"	16"	6"	4"	F	LED	4000K	80	LED DRIVER (0-10V DIMMING) 10%	120/277	17	CL	1500	-	SS	WL		GOTHAM (EVO-40/15-4AR-MVD-LSS-MVOLT-EZ10)	CONTECH (R4NC-)	HALO (HC4)	WILLIAMS (4DR)
(E1)	EXIT SIGN (SINGLE FACE)	11"	8"	2"	-	W, C, S, P	LED	GREEN		LED DRIVER	120/277	1	AL	3	-	-	-		DUAL LITE (SE SERIES)	LITHONIA (LE SERIES)	EVENLITE (CCDS SERIES)	SEEXDC
(E2)	EXIT SIGN (DOUBLE FACE)	11"	8"	2"	-	W, C, S, P	LED	GREEN		LED DRIVER	120/277	1	AL	3	-	-	-		DUAL LITE (SE SERIES)	LITHONIA (LE SERIES)	EVENLITE (CCDS SERIES)	SEEXDC
(LP4)	STRIPLIGHT W/ LENS	48"	4"	4"	-	CP	LED	4000K	80	LED DRIVER (0-10V DIMMING)	120/277	38	MW	5000	#A	-	-		LITHONIA (ZL1D-L48-5000LM-FST-MVOLT-40K-80CRI-WH-HC36)	METALUX (4SNLED)	ILP (SS4)	WILLIAMS (75R)
(LP4E)	STRIPLIGHT W/ LENS	48"	4"	4"	-	CP	LED	4000K	80	LED DRIVER (0-10V DIMMING)	120/277	38	MW	5000	#A	-	-		LITHONIA (ZL1D-L48-5000LM-FST-MVOLT-40K-80CRI-WH-HC36)	METALUX (4SNLED)	ILP (SS4)	WILLIAMS (75R)
(LP8)	LINEAR PENDANT, CABLE SUSPENDED, DIRECT/INDIRECT, FIELD COORDINATE CABLE LENGTH AND MOUNTING TYPE	96"	4"	2"	-	P	LED	4000K	80	LED DRIVER (0-10V DIMMING) 1%	120/277	128	CCA	12000	FA	-	-		LUMIUM (PD1-CS-40K-SO-SO-1D	FLUXWERX (VU1)	PINNACLE (LE5)	CA $1600.00
(LR2DF)	2" RECESSED LINEAR W/ REGRESSED LENS (FLANGE KIT)	72"	3"	5.5"	-	F	LED	4000K	80	LED DRIVER (0-10V DIMMING) 10%	120/277	118	CBA	3750	FA	-	WL		FOCAL POINT (FSM2L-SR-625LF-40K-1C-UNV-LD1-TF-WH-6)	LITECONTROL (3L-R-D)	PRUDENTIAL LIGHTING (P23)	PINNACLE (EV2D)
(LR3AFE)	2" RECESSED LINEAR W/ REGRESSED LENS (FLANGE KIT) WITH EMERGENCY TRANSFER	48"	3"	5.5"	-	F	LED	4000K	80	LED DRIVER (0-10V DIMMING) 10%	120/277	70	CBA	5000	FA	-	ET, WL		FOCAL POINT (FSM2L-SR-625LF-40K-1C-UNV-LD1-TF-WH-4)	LITECONTROL (3L-R-D)	PRUDENTIAL LIGHTING (P23)	PINNACLE (EV2D)
(LR4AF)	2" RECESSED LINEAR W/ REGRESSED LENS (FLANGE KIT)	60"	3"	5.5"	-	F	LED	4000K	80	LED DRIVER (0-10V DIMMING) 10%	120/277	94	CBA	5000	FA	-	WL		FOCAL POINT (FSM2L-SR-625LF-40K-1C-UNV-LD1-TF-WH-5)	LITECONTROL (3L-R-D)	PRUDENTIAL LIGHTING (P23)	PINNACLE (EV2D)
(PL14)	LINEAR PENDANT, CABLE SUSPENDED, DIRECT/INDIRECT, FIELD COORDINATE CABLE LENGTH AND MOUNTING TYPE	168"	6"	1"	-	P	LED	4000K	80	LED DRIVER (0-10V DIMMING) 1%	120/277	77	CBA	23000	FA	-	-		LUMIUM (TA1-CS-40K-SO-SO-UNV-1D)	LEDALITE (EL)	FLUXWERX (FD)	CA $3267.00
(PL81)	2" LINEAR PENDANT DIRECT, DIRECT/INDIRECT	96"	2.5"	5"	-	CP	LED	4000K	80	LED DRIVER (0-10V DIMMING) 1%	120/277	96	CBA	14000	-	-	ST,PS		PRUDENTIAL (BIO2-LIN-LED4-SO-8-CBA-SAL-D1-CW-SC-CAXX-DM01)	ALW (SP2.5S)	LIGHTCONTROL (2L-P-ID)	PINNACLE (EX2D)
(PS8)	2.5" LINEAR PENDANT, CABLE SUSPENDED, DIRECT/INDIRECT, FIELD COORDINATE CABLE LENGTH AND MOUNTING TYPE	96"	2.5"	2.5"	-	P	LED	4000K	80	LED DRIVER (0-10V DIMMING) 1%	120/277	128	CCA	15000	FA	-	-		LUMIUM (ND2-CS-8'-40K-SO-SO-UNV-1D)	MARK (S2LIDP)	CORONET (LS2)	PINNACLE (EX2DI)
(RT22)	VOLUMETRIC RECESSED TROFFER 2x2 (LED)	24"	24"	6"	-	G	LED	4000K	80	LED DRIVER (0-10V)	120/277	17	CBA	4000	ADSM	-	ST, EQC, HLD		LITHONIA (2BLT2-40L-ADSM-EZ1-LP840)	METALUX (22CZ2)	COLUMBIA LIGHTING (LCAT22)	WILLIAMS (LT)
(RT24)	VOLUMETRIC RECESSED TROFFER 2x4 (LED)	48"	24"	6"	-	G	LED	4000K	80	LED DRIVER (0-10V)	120/277	40	CBA	4800	ADSM	-	ST, EQC, HLD		LITHONIA (2BLT4-40L-ADSM-EZ1-LP840)	METALUX (24CZ2)	COLUMBIA LIGHTING (LCAT24)	WILLIAMS (LT)
(WB10)	LED SURFACE INDIRECT/DIRECT 20% UP/80% DOWN STAIR LIGHT WITH OCCUPANCY SENSOR AND DIMMING PHOTOCELL	48"	4"	4"	-	W	LED	4000K	80	LED DRIVER (0-10V DIMMING) 10%	120/277	54	CBA	5100	OA/OA	-	PS, OCC	1	LUMENWERX (VIA4WDI)	SLW (HB3.5W) / PINNACLE (EX4DI)	NEO-RAY (S124) / LITECONTROL (4L-W-ID)	MARK (S4LWID)

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6/14/2019

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NO △	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
INTERIOR LIGHTING FIXTURE SCHEDULE

SHEET NUMBER
EL601

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EXTERIOR LIGHTING FIXTURE SCHEDULE

ABBREVIATIONS

LUMINAIRE

ARHR - AIR RETURN AND HEAT REJECTION
DL - DAMP LOCATION
EQC - EARTHQUAKE CLIPS
ET - EMERGENCY TRANSFER
F - FUSING
HLD - HINGED AND LATCHED DOOR
HS - HOUSE SIDE SHIELD
PS - PHOTOCELL SWITCH
QRS - QUARTZ RESTRIKE
ST - STATIC
WG - WIRE GUARD
WL - WET LOCATION

MOUNTING

B - BASE
C - CEILING
F - FLANGE
G - GRID
P - PENDANT
PL - POLE
R - RECESSED
S - SURFACE
W - WALL

CONFIGURATION

BA - BANNER ARMS
BH - BULL HORN
DL - 2 "L" SHAPE
DS - 2 @ 180
PT - INLINE POST TOP
Q - QUAD
SH - SHEPHERDS HOOK
SL - SINGLE
T - 3 "T" SHAPE

POLE

RS - ROUND STRAIGHT
RT - ROUND TAPERED
SS - SQUARE STRAIGHT
ST - SQUARE TAPERED

EMERGENCY

NE - NORMAL AND EMERGENCY CONNECTIONS
EB - EMERGENCY BATTERY PACK
ET - EMERGENCY TRANSFER DEVICE

BALLAST

IS - INSTANT START
RS - RAPID START
PS - PROGRAM START, PARALLEL LAMP OPERATION
PSMH - PULSE START METAL HALLIDE (CWA OR ELECTRONIC)
PPLF - PROVIDE POWER LINE FILTER
LVTM - LOW VOLTAGE TRANSFORMER (MAGNETIC)
LVTE - LOW VOLTAGE TRANSFORMER (ELECTRONIC)

DIMMING BALLAST

D2 - 2 WIRE DIMMER
D3 - 3 WIRE DIMMER
D4 - 4 WIRE DIMMER
DD - DIGITAL DIMMER
SDP - STEP DIMMER BALLAST

FINISH

MW - MATTE WHITE
BL - BLACK
SL - SILVER
GL - GOLD
CL - CLEAR
PW - PAINTED WHITE
EA - EXTRUDED ALUMINUM
S - STEEL
GS - GALVANIZED STEEL
C - CAST
CBA - COLOR BY ARCHITECT
SCBA - STANDARD COLOR BY ARCHITECT
CCA - CUSTOM COLOR BY ARCHITECT
FS 2060 - MEETS FEDERAL STANDARD 2060
TP - THERMALLY PROTECTED
FL - FLUSH
R - REGRESS
M - MITERED

LENS

#A - ACRYLIC #THICK
#OA - ACRYLIC #THICK (OPAL)
GC - GLASS (CLEAR)
GO - GLASS (OPAL)
GF - GLASS (FROSTED)
SGL - SOFT GLOW LENS
HPL - HIGH PERFORMANCE LENS
DO - DROP OPAL
CGL - CONVEX GLASS LENS
S - SATIN LENS

REFLECTOR AND DISTRIBUTION

I - TYPE I
II - TYPE II
III - TYPE III
IV - TYPE IV
V - TYPE V
VSQ - TYPE V SQUARE
SA - SPUN ALUMINUM
SR - SEGMENTED REFLECTOR
BWW - NEMA BEAM WIDTH 1 THRU 7
FL - FLOOD
SP - SPOT

CUTOFF CLASSIFICATION

FC - FULL CUTOFF
CO - CUTTOFF
SC - SEMI CUTOFF
NC - NONCUTOFF

NOTES

1. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER.
2. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES.

1. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS.
2. COMPLY WITH THE "EXTERIOR LIGHTING" SECTION OF THE SPECIFICATIONS.
3. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS.
4. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED.

		LUMINAIRE								LAMP				DRIVER		FINISH		LENS	REFLECTOR	MOUNTING						MANUFACTURER (CATALOG SERIES)			
		BUG RATING			SIZE (NOMINAL)																								
ID	TYPE	BACK	UP	GLARE	LENGTH	WIDTH	DEPTH	DIAMETER/ APERTURE	OPTIONS	COLOR	TYPE	INITIAL LUMENS @ 1.0BF	QUANTITY	INPUT VOLTS	ANSI WATTS	HOUSING	TRIM	TYPE	DISTRIBUTION TYPE	TYPE	CONFIGURATION	POLE BASE HEIGHT	POLE HEIGHT	WIND RATING	OPTIONS	OPTION 1	OPTION_2	OPTION 3	OPTION 4
(B1)	BOLLARD	1	0	1	-	-	42"	-	WL	4000K	0-10V LED	1000	1	120	11	CBA	CBA		II	B	-	0' - 0"	0' - 0"	-	-	LITHONIA (KBC8)	ANP (BL0121)	VISIONAIRE LIGHTING (OWK-1)	INTRIGUE LIGHTING (EL)
(B2)	BOLLARD	1	0	1	-	-	42"	-	WL	4000K	0-10V LED	1000	1	120	11	CBA	CBA		V	B	-	0' - 0"	0' - 0"	-	-	LITHONIA (KBC8)	ANP (BL0121)	VISIONAIRE LIGHTING (OWK-1)	INTRIGUE LIGHTING (EL)
(CR1)	CONCRETE RECESSED LED LIGHT WITH GASKET	-	-	-	10"	3"	5"	-	WL	4000K	LED	475	1	120	17	CBA	CBA	#A	-	W	-	0' - 0"	0' - 0"	-	-	BEGA (24064)	LIGMAN (URA40582)	LUMUX (SL650L)	COLE LIGHTING (158)
(OF-1)	GROUND MOUNTED FLOOD WITH VISOR- 100 DEGREE BEAM SPREAD	-	-	-	11"	6"	6"		WL	4000K	LED	3460	1	120	40	CBA	CBA		FL	PL	SL	0' - 0"	0' - 0"	-	-	PHILIPS (STKLPF2K-8)	CA = $286.94	-	-
(OF-2)	GROUND MOUNTED SPOT WITH VISOR -20 DEGREE BEAM SPREAD (SPREAD LENS TO BE INSTALLED AS DIRECTED IN FIELD)	-	-	-	11"	6"	6"		WL	4000K	LED	3460	1	120	40	CBA	CBA		SP	PL	SL	0' - 0"	0' - 0"	-	-	PHILIPS (STKLPF2K-8)	CA = $286.94	-	-
(WS1)	LED WALL PACK	0	0	0	11.75"	2.125"	4.75"	-	WL	4000K	LED	1400	1	120	26	CBA	CBA	#A	II	W	-	0' - 0"	0' - 0"	-	-	LUMARK (XTOR)	WILLIAMS (VMN)	APPROVED EQUAL	-

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6/14/2019

MHTN PROJECT NO. PROJ #2018576

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REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
EXTERIOR LIGHTING FIXTURE SCHEDULE

SHEET NUMBER
EL602

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LIGHTING RELAY PANEL "1RA"

LOCATION: ELEC. 144 **MOUNTING: SURFACE** **ENCLOSUR...** NEMA 1

RELAY	DIMMING	PANEL CIRCUIT	DESCRIPTION	CONTROL CHANNEL	LOAD (WATTS)						CONTROL CHANNEL	DESCRIPTION	PANEL CIRCUIT	DIMMING	RELAY
1	NO	**1LA-16**	LIGHTING WAITING	B	840	760						LIGHTING CORRIDORS	**1LA-15**		2
3	NO	**1LA-17**	LTG EAST OPEN OFFICE	A			760	546			B	LIGHTING NORTH ENTRY	**1LA-7**	NO	4
5	NO	**1LB-4**	LIGHTING HALL H100	B					880	0	--	SPARE	--	--	6
7	NO	**1LA-1**	WALKWAY LIGHTING	E	139	480					B	LTG EXTERIOR FLOODLTS	**1LA-43**	NO	8
9	--	--	SPARE	--			0	0			--	SPARE	--	--	10
11	--	--	SPARE	--					0	0	--	SPARE	--	--	12
13	--	--	SPARE	--	0	0					--	SPARE	--	--	14
15	--	--	SPARE	--			0	0			--	SPARE	--	--	16
17	NO	**1ELA-11**	LTG RMS 158, 157, V05	A					12...	290		LTG NORTH ENTRY	**1ELA-7**		18
19		**1ELA-6**	LIGHTING HALL H100		320	108						LIGHTING	**1ELA-2**		20
21	--	--	SPARE	--			0	0			--	SPARE	--	--	22
23	--	--	SPARE	--					0	0	--	SPARE	--	--	24

LIGHTING RELAY CONTROL CHANNELS

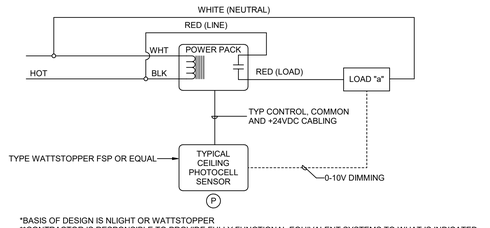
GENERAL NOTES:
1. PROGRAMMING OF SYSTEM SHALL COMPLY WITH CURRENT IECC REQUIREMENTS.
2. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER.
3. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION.
4. ALL SPARE RELAYS AND CHANNELS SHALL BE INCLUDED WITH ORIGINAL SYSTEM INSTALLATION.
5. UPON LOSS OF NORMAL POWER, ALL EMERGENCY LIGHTING RELAYS SHALL TURN ON TO 100% UNTIL NORMAL POWER IS RESTORED, THEN GO BACK TO STANDARD MODE.
**CHANNEL SHALL BE PROGRAMMED WITH 10 MINUTE WARNING PRIOR TO TURNING LIGHTS OFF BY BLINKING THE LIGHTS OFF/ON/OFF/ON.

CONTROL CHANNEL	CHANNEL DESCRIPTION	CHANNEL PROGRAMMING REQUIREMENTS
(none)		
A	MANUAL ON, AUTO SWEEP OFF	SWEEP OFF AT (10PM), MANUAL ON/OFF VIA LOW VOLTAGE SWITCH**
B	CORRIDOR & COMMON SPACE	TIME OFF (10PM)/TIME ON (6AM)**
E	EXTERIOR LIGHTING ALL NIGHT	EXTERIOR PHOTOCELL ON/OFF

LOW VOLTAGE OVERRIDE SWITCH SCHEDULE

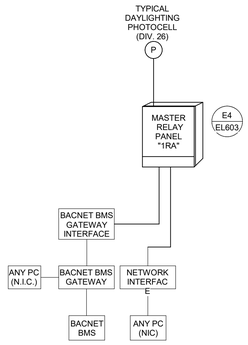
1. COORDINATE INITIAL PROGRAMMING REQUIREMENTS AND SETTINGS WITH OWNER AND MODIFY PROGRAMMING, CONTROL TIMES, AND OPERATION AS DIRECTED BY OWNER.
2. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS AS DIRECTED BY OWNER WITHIN THE FIRST 3 TO 6 MONTHS AFTER SUBSTATIAL COMPLETION AND BUILDING OCCUPANCY.
3. PROVIDE CUSTOMIZED PERMANENT BUTTON LABELING ON EACH OVERRIDE SWITCH. LABEL FOR EACH BUTTON SHALL CLEARLY INDICATE FUNCTION OF BUTTON OR ZONE SERVED.
4. PART NUMBERS SHOWN ARE BASED ON THE BASIS OF DESIGN MANUFACTURER NOTED.
5. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE A COMPLETE FUNCTIONING LIGHITNG CONTROL SYSTEM MEETING ALL PROJECT REQUIREMENTS, DESIGN INTENT AND FEATURES/FUNCTIONS OF THE BASIS OF DESIGN PRODUCTS.
6. LIGHTING CONTROL PANEL SHALL EITHER BE FACTORY OR UL508 SHOP ASSEMBLED INCLUDING ALL REQUIRED COMPONENTS SUCH AS, BUT NOT LIMITED TO ENCLOSURE, POWER SUPPLIES, RELAYS, DIMMING MODULES, TERMINAL BLOCKS, SIGNAL INTERFACE, PROCESSOR, TIMECLOCK, WIRE MANAGEMENT, ETC. CONTRACTOR OR FIELD BUILT LIGHTING CONTROL PANELS WILL NOT BE PERMITTED.
7. THE LIGHTING CONTROL PANEL AND SEGMENT MANAGER MUST BE NETWORKED TOGETHER AND SHALL PROVIDE ALL FEATURES AND FUNCTIONS AVAILABLE TO THE LIGHTING CONTROL SYSTEM THROUGH THE NETWORK.

BUTTON	ZONE CONTROLLED	CONTROL DESCRIPTION	BUTTON ENGRAVING
CS-1			
1	LEVEL 1 CORRIDOR	OVERRIDE ON 2 HOURS	YES(L1-ON)
2	LEVEL 2 CORRIDOR	OVERRIDE ON 2 HOURS	YES(L2-ON)
3	EXTERIOR LIGHTING	OVERRIDE ON 2 HOURS	YES(EXT-ON)
4	SPARE	SPARE	
5	SPARE	SPARE	

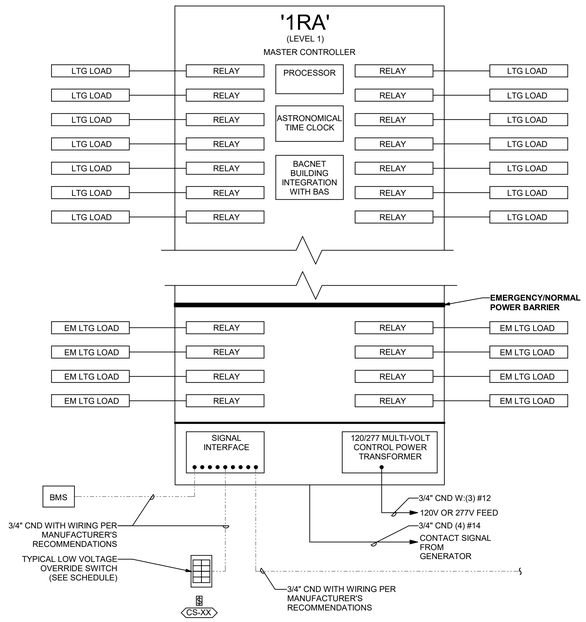


*BASIS OF DESIGN IS NLIGHT OR WATTSTOPPER
**CONTRACTOR IS RESPONSIBLE TO PROVIDE FULLY FUNCTIONAL EQUIVALENT SYSTEMS TO WHAT IS INDICATED HERE.

E1 COMMON SPACE PHOTOCELL DIMMING
SCALE: NTS



E3 NETWORKED LIGHTING CONTROL RISER DIAGRAM
SCALE: NTS



E4 TYPICAL MASTER LIGHTING RELAY PANEL
SCALE: NTS

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6/14/2019

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REVISIONS
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NO.△	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
LIGHTING RELAY DIAGRAMS & SCHEDULES

SHEET NUMBER
EL603

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LIGHTING/SPACE CONTROL TYPE SCHEDULE

WIRING LEGEND

- LINE VOLTAGE WIRING
- 0-10V WIRING
- CAT5E CABLING
- WIRING BY OTHERS
- TMP SEGMENT NETWORK CABLING

APPROVED MANUFACTURERS

1. WATTSTOPPER (BASIS OF DESIGN)
2. NLIGHT
3. HUBBELL BUILDING AUTOMATION
4. GREENGATE
5. DOUGLAS

LIGHTING CONTROL ID

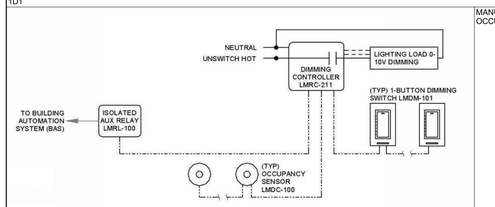
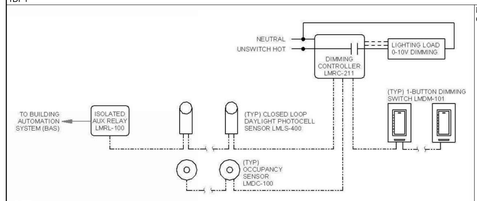
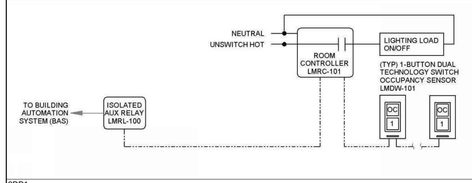
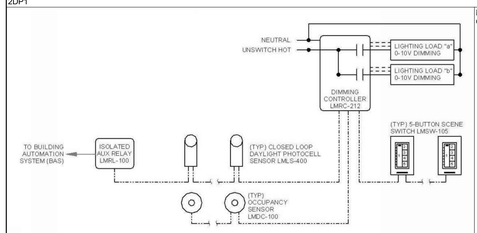
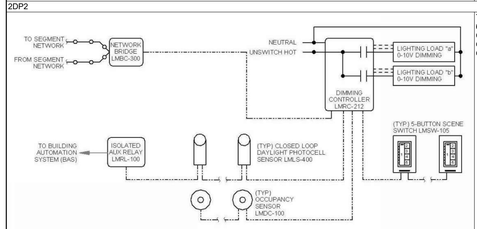
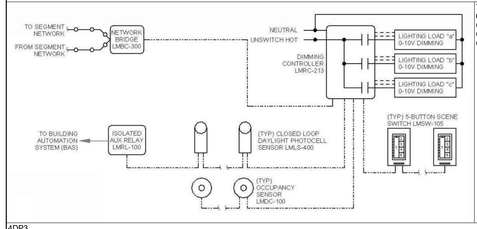
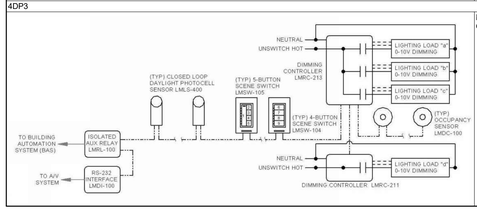
1. # = NUMBER OF ZONES
2. D = DIMMING, S = SWITCHING
3. P = DAYLIGHT PHOTOCELL
4. L = PLUG LOAD CONTROLLER
5. # = INSTANCE

GENERAL NOTES

1. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER.
2. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION.
3. PROVIDE CUSTOMIZED ENGRAVED PERMANENT BUTTON LABELS ON EACH SWITCH, LABEL TO MATCH BUTTON LABEL ID OR AS DIRECTED BY OWNER.
4. PART NUMBERS SHOWN ARE BASED ON WATTSTOPPER AS THE BASIS OF DESIGN. ALL APPROVED MANUFACTURERS ARE SUBJECT TO MEETING ALL FUNCTIONS AND CAPABILITIES OF THE BASIS OF DESIGN SYSTEM AND PRODUCTS. FAILURE TO MEET THESE SHALL REQUIRE THE CONTRACTOR TO PROVIDE A SYSTEM THAT DOES AT NOT ADDITIONAL COST.

GENERAL NOTES

5. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES.
6. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS.
7. WIRING MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED WIRING THAT WILL BOTH MEET THE MANUFACTURERS REQUIREMENTS AND MATCH WITH THE SHOWN SYSTEM.
8. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS INCLUDING OCCUPANCY SENSOR LAYOUT AND COVERAGE PATTERNS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR 100% COVERAGE OF SPACES WITH OCCUPANCY SENSOR CONTROL.

ID / DETAIL	LIGHTS ON CONTROL	LIGHTS OFF CONTROL	LIGHTING CONTROL TYPE	DAYLIGHT SENSOR SETTING (FC)	TIME DELAY TO OFF (MIN.)	BAS AUX RELAY SIGNAL	PLUG LOAD CONTROLLER	NETWORKED CONTROLS	BUTTON_1	BUTTON_2	BUTTON_3	BUTTON_4	BUTTON_5	BUTTON_6	BUTTON_7	BUTTON_8	BUTTON_9	NOTES
1D1 	MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP-"ON/RAISE" BOTTOM-"OFF/ LOWER"	-	-	-	-	-	-	-	-	-	
1DP1 	MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	30	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP-"ON/RAISE" BOTTOM-"OFF/ LOWER"	-	-	-	-	-	-	-	-	-	
1S1 	MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	ON/OFF	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNTION: PRESS-ON PRESS-OFF LABEL ID:"ON/OFF"	-	-	-	-	-	-	-	-	-	
2DP1 	MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	30	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE PRESS BOTTOM-OFF, HOLD BOTTOM-LOWER LABEL ID: TOP-"ON/RAISE" BOTTOM-"OFF/ LOWER"	FUNCTION: PRESS-PRESET SCENE #01 ZONE "a" 75% ZONE "b" 75% LABEL ID: "PRE #1"	FUNCTION: PRESS-PRESET SCENE #02 ZONE "a" 0% ZONE "b" 50% LABEL ID: "PRE #2"	FUNCTION: PRESS-SELECT ZONE "a" FOR DIMMING LABEL ID: "ZONE a"	FUNCTION: PRESS-SELECT ZONE "b" FOR DIMMING LABEL ID: "ZONE b"	-	-	-	-	
2DP2 	TIME ON AT 6AM MON-SAT, CAN MANUAL OVER-RIDE ON FOR 2HRS	TIME OFF AT 1AM DAILY, BLINK LIGHTS 10 MIN WARNING	DIMMING 0-10V	30	15	RELAY CLOSED ON OCCUPANCY	-	YES	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE PRESS BOTTOM-OFF, HOLD BOTTOM-LOWER LABEL ID: TOP-"ON/RAISE" BOTTOM-"OFF/ LOWER"	FUNCTION: PRESS-PRESET SCENE #01 ZONE "a" 75% ZONE "b" 75% LABEL ID: "PRE #1"	FUNCTION: PRESS-PRESET SCENE #02 ZONE "a" 0% ZONE "b" 50% LABEL ID: "PRE #2"	FUNCTION: PRESS-SELECT ZONE "a" FOR DIMMING LABEL ID: "ZONE a"	FUNCTION: PRESS-SELECT ZONE "b" FOR DIMMING LABEL ID: "ZONE b"	-	-	-	-	
3DP2 	TIME ON AT 6AM MON-SAT, CAN MANUAL OVER-RIDE ON FOR 2HRS	TIME OFF AT 1AM DAILY, BLINK LIGHTS 10 MIN WARNING	DIMMING 0-10V	30	15	RELAY CLOSED ON OCCUPANCY	-	YES	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE PRESS BOTTOM-OFF, HOLD BOTTOM-LOWER LABEL ID: TOP-"ON/RAISE" BOTTOM-"OFF/ LOWER"	FUNCTION: PRESS-PRESET SCENE #01 ZONE "a" 0% ZONE "b" 50% ZONE "c" 100% LABEL ID: "PRE #1"	FUNCTION: PRESS-SELECT ZONE "a" FOR DIMMING LABEL ID: "ZONE a"	FUNCTION: PRESS-SELECT ZONE "b" FOR DIMMING LABEL ID: "ZONE b"	FUNCTION: PRESS-SELECT ZONE "c" FOR DIMMING LABEL ID: "ZONE c"	-	-	-	-	
4DP3 	MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	30	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE PRESS BOTTOM-OFF, HOLD BOTTOM-LOWER LABEL ID: TOP-"ON/RAISE" BOTTOM-"OFF/ LOWER"	FUNCTION: PRESS-SELECT ZONE "a" FOR DIMMING LABEL ID: "ZONE a"	FUNCTION: PRESS-SELECT ZONE "b" FOR DIMMING LABEL ID: "ZONE b"	FUNCTION: PRESS-SELECT ZONE "c" FOR DIMMING LABEL ID: "ZONE c"	FUNCTION: PRESS-SELECT ZONE "d" FOR DIMMING LABEL ID: "ZONE d"	FUNCTION: PRESS-PRESET SCENE #01 ZONE "a" 75% ZONE "b" 75% ZONE "c" 75% ZONE "d" 75% LABEL ID: "PRE #1"	FUNCTION: PRESS-PRESET SCENE #02 ZONE "a" 50% ZONE "b" 50% ZONE "c" 50% ZONE "d" 50% LABEL ID: "PRE #2"	FUNCTION: PRESS-PRESET SCENE #03 ZONE "a" 0% ZONE "b" 100% ZONE "c" 100% ZONE "d" 0% LABEL ID: "PRE #3"	FUNCTION: PRESS-PRESET SCENE #04 ZONE "a" 0% ZONE "b" 50% ZONE "c" 50% ZONE "d" 100% LABEL ID: "PRE #4"	-

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SEAL

LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

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REVISIONS
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NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
LIGHTING CONTROL SCHEDULES

SHEET NUMBER
EL604

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LIGHTING/SPACE CONTROL TYPE SCHEDULE

WIRING LEGEND

- LINE VOLTAGE WIRING
- 0-10V WIRING
- CAT5E CABLING
- WIRING BY OTHERS
- TMP SEGMENT NETWORK CABLING

APPROVED MANUFACTURERS

1. WATTSTOPPER (BASIS OF DESIGN)
2. NLIGHT
3. HUBBELL BUILDING AUTOMATION
4. GREENGATE
5. DOUGLAS

LIGHTING CONTROL ID

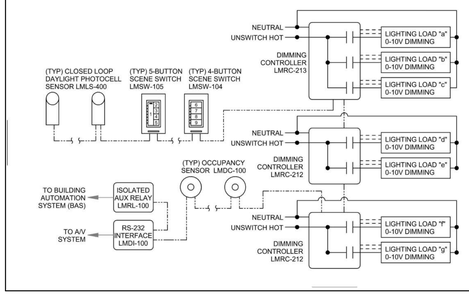
1. # = NUMBER OF ZONES
2. D = DIMMING, S = SWITCHING
3. P = DAYLIGHT PHOTOCELL
4. L = PLUG LOAD CONTROLLER
5. # = INSTANCE

GENERAL NOTES

1. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER.
2. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION.
3. PROVIDE CUSTOMIZED ENGRAVED PERMANENT BUTTON LABELS ON EACH SWITCH, LABEL TO MATCH BUTTON LABEL ID OR AS DIRECTED BY OWNER.
4. PART NUMBERS SHOWN ARE BASED ON WATTSTOPPER AS THE BASIS OF DESIGN. ALL APPROVED MANUFACTURERS ARE SUBJECT TO MEETING ALL FUNCTIONS AND CAPABILITIES OF THE BASIS OF DESIGN SYSTEM AND PRODUCTS. FAILURE TO MEET THESE SHALL REQUIRE THE CONTRACTOR TO PROVIDE A SYSTEM THAT DOES AT NOT ADDITIONAL COST.

GENERAL NOTES

5. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES.
6. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS.
7. WIRING MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED WIRING THAT WILL BOTH MEET THE MANUFACTURERS REQUIREMENTS AND MATCH WITH THE SHOWN SYSTEM.
8. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS INCLUDING OCCUPANCY SENSOR LAYOUT AND COVERAGE PATTERNS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR 100% COVERAGE OF SPACES WITH OCCUPANCY SENSOR CONTROL.

ID	DETAIL	LIGHTS ON CONTROL	LIGHTS OFF CONTROL	LIGHTING CONTROL TYPE	DAYLIGHT SENSOR SETTING (FC)	TIME DELAY TO OFF (MIN.)	BAS AUX RELAY SIGNAL	PLUG LOAD CONTROLLER	NETWORKED CONTROLS	BUTTON_1	BUTTON_2	BUTTON_3	BUTTON_4	BUTTON_5	BUTTON_6	BUTTON_7	BUTTON_8	BUTTON_9	NOTES
7DP2		MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	30	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE PRESS BOTTOM-OFF, HOLD BOTTOM-LOWER LABEL ID: TOP-"ON/RAISE" BOTTOM-"OFF/LOWER"	FUNCTION: PRESS-SELECT ZONE "a" FOR DIMMING LABEL ID: "ZONE a"	FUNCTION: PRESS-SELECT ZONE "b" FOR DIMMING LABEL ID: "ZONE b"	FUNCTION: PRESS-SELECT ZONE "c" FOR DIMMING LABEL ID: "ZONE c"	FUNCTION: PRESS-SELECT ZONE "d" FOR DIMMING LABEL ID: "ZONE d"	FUNCTION: PRESS-SELECT ZONE "e" FOR DIMMING LABEL ID: "ZONE e"	FUNCTION: PRESS-SELECT ZONE "f" FOR DIMMING LABEL ID: "ZONE f"	FUNCTION: PRESS-PRESET SCENE #01 ZONE "a" 100% ZONE "b" 100% ZONE "c" 100% ZONE "d" 100% ZONE "e" 100% ZONE "f" 100% LABEL ID: "PRE #1"	FUNCTION: PRESS-PRESET SCENE #02 ZONE "a" 0% ZONE "b" 0% ZONE "c" 50% ZONE "d" 50% ZONE ZONE "e" 50% "f" 50% LABEL ID: "PRE #2"	

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SHEET NUMBER
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TELECOMMUNICATIONS EQUIPMENT/CABLE LIST

THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION. WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE, FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SYMBOL	ITEM DESCRIPTION	ACCEPTABLE TYPES
	FIBER OPTIC CABLE, SINGLE-MODE, 12 STRAND, OSP, BLACK	CORNING 012EUC-T4F22020
	STATION CABLE, DATA/WIRELESS - CATEGORY 6A, UTP, PLENUM, BLUE	BERKTEK 10130484
	STATION CABLE, PHONE - CATEGORY 6A, UTP, PLENUM, WHITE	BERKTEK 1013784
	STATION CABLE, CAMERA - CATEGORY 6A UTP, PLENUM, YELLOW	BRKTEK 10130485
▼ 2	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE 2 POSITION WITH ANGLED JACK PORTS	LEVITONA1081-2WP
	CATEGORY 6A JACK - DATA, BLUE	LEVITON 6110G-RL6
▼ 3	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION WITH ANGLED JACK PORTS	LEVITON 41081-4WP
	CATEGORY 6A JACK - 2 DATA, BLUE, 1 VOICE, WHITE	LEVITON 6110G-RL6/6110G-RW6
▼ 4	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 4 POSITION WITH ANGLED JACK PORTS	LEVITON 41081-4WP
	CATEGORY 6A JACK - 3 DATA, BLUE, 1 VOICE, WHITE	LEVITON 6110G-RL6/6110G-RW6
▼ 3F	MODULAR FURNITURE DATA INSERT, COORDINATE WITH FURNITURE VENDOR. 4 POSITION	FACEPLATE BY FURNITURE VENDOR
	CATEGORY 6A JACK - 2 DATA, BLUE, 1 VOICE, WHITE	LEVITON 6110G-RL6/6110G-RW6
▲ 2	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	LEVITONA1081-2WP
	CATEGORY 6A JACK - DATA, BLUE	LEVITON 6110G-RL6
	BLANK INSERT	
	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	LEVITONA1081-2WP
	CATEGORY 6A JACK - DATA, BLUE	LEVITON 6110G-RL6
SPP1	STATION PATCH PANEL, MODULAR, BLACK, 2RU	LEVITON 49255-L48
	CATEGORY 6A JACK - DATA, BLUE	LEVITON 6110G-RE6
	CATEGORY 6A JACK - DATA, WHITE	LEVITON 49255-L48
	CATEGORY 6A JACK - WIRELESS, YELLOW	LEVITON 6110G-RE6
	BLANK MODULE, BLACK	LEVITON 6110G-RE6
FPP1	FIBER PATCH PANEL, 1RU	CORNING CCH-01U
	FIBER ADAPTER PANEL, 6 POSITION, 12 FIBER, SM, LC CONNECTORS	CORNING CCH-CP12-A9
	FIBER ADAPTER PANEL, BLANK	CORNING CCH-BLNK
	EQUIPMENT RACK, 4 POST, BLACK	CHATSWORTH 15053-703
FPP3	FIBER PATCH PANEL, WALL MOUNT, BLACK	LEVITON 5W110-N
	6 POSITION FIBER ADAPTER PANEL, ST	LEVITON 5F100-6MT
	ST CONNECTOR, SIMPLEX MULTI MODE OM1	LEVITON 49990-MST
HWM	HORIZONTAL WIRE MANAGERS, 2RU, BLACK	PANDUIT NCMH2
VWM	VERTICAL WIRE MANAGER, BLACK, 6", DOUBLE SIDED	CHATSWORTH 13914-703
HWM	HORIZONTAL WIRE MANAGERS, BLACK, 2RU, FRONT ONLY	CHATSWORTH 13920-702
	CABLE RUNWAY - 18", BLACK WITH ALL REQUIRED MOUNTING ACCESSORIES	CHATSWORTH 10250-718
	CABLE RUNWAY ELEVATION KIT, 6"	CHATSWORTH 10506-706
	BUTT SPLICE KIT, BLACK	CHATSWORTH 11301-001
	JUNCTION SPLICE KIT, BLACK	CHATSWORTH 11302-001
	ADJ JUNCTION SPLICE KIT, BLACK	CHATSWORTH 10616-001
	FOOT KIT, BLACK	CHATSWORTH 11309-701
	3" CHANNEL RACK TO RUNWAY, BLACK	CHATSWORTH 10595-718
	TRIANGLE BRACKETS 12", BLACK	CHATSWORTH 11312-718
	END CLOSING KIT, CABLE RUNWAY, BLACK	CHATSWORTH 11700-718
	RUNWAY WALL BRAKETS, BLACK	CHATSWORTH 10608-701
	SWIVEL SPLICE KIT, BLACK	CHATSWORTH 10488-701
	END CLOSING KIT, CABLE RUNWAY, BLACK	CHATSWORTH OR APPROVED EQUAL
⊥ ⊥	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR	PANDUIT BG4 B06 24TPI-1
	TELECOMMUNICATIONS GROUNDING BUS BAR	PANDUIT GB2 B03 12TPI-1

NOTE: ALL RACKS, LADDER, PATCH PANELS AND ACCESSORIES SHALL BE BLACK IN COLOR.

GENERAL PROJECT NOTES

1. UNLESS OTHERWISE NOTED, INSTALL ALL CABLE INSIDE RACEWAY SYSTEMS. WHERE RACEWAY SYSTEMS HAVE NOT BEEN PROVIDED OR SPECIFIED, INSTALL CABLE THROUGH THE SPECIFIED "CADDY" CLIPS AT THE MINIMUM INTERVALS IDENTIFIED IN THE SPECIFICATIONS. SUPPORT "CADDY" CLIPS DIRECTLY FROM THE BUILDING STRUCTURE, NOT FROM OTHER BUILDING SYSTEM SUPPORT WIRES OR CABLE.
2. PROVIDE PLENUM RATED CABLE IN ALL AIR PLENUMS. IF A PLENUM RATED CABLE IS NOT SPECIFIED, PROVIDE THE PLENUM RATED EQUIVALENT TO THE SPECIFIED CABLE.
3. LABEL ALL CABLE INSTALLED UNDER THIS CONTRACT REGARDLESS OF LENGTH.
4. THE EQUIPMENT LABELING IDENTIFIED ON DETAILS IN THESE DRAWINGS ARE EXAMPLES ONLY OF THE ACTUAL LABELING WHICH IS REQUIRED AS PART OF THIS CONTRACT. PRIOR TO FABRICATION, SUBMIT THE NOMENCLATURE FOR ALL LABELS TO THE OWNER FOR REVIEW. THIS REQUIREMENT INCLUDES BUT IS NOT LIMITED TO ALL CABLE LABELING, AND ALL EQUIPMENT LABELING.
5. GROUND ALL EQUIPMENT RACKS INSTALLED UNDER THIS CONTRACT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS.
6. FOR EVERY CABLE PULL SPECIFIED, COIL 15' OF EXCESS CABLE THE STATION END FOR FUTURE USE. NEATLY COIL 15' ABOVE THE CEILING.
7. PROVIDE THE QUANTITY OF PATCH PANELS REQUIRED +20% FOR THE TOTAL VOICE AND DATA OUTLETS SHOWN ON FLOOR PLANS FOR THE PARTICULAR LEVEL.
8. COORDINATE WITH OWNER I.T. PERSONNEL ON RACK PATCH PANEL DENSITY PRIOR TO ANY CABLE TERMINATION.
9. PROVIDE PRICING FOR INSTALLING ALL WIRELESS AP LOCATIONS. WIRELESS AP'S WILL BE OWNER FURNISHED, CONTRACTOR INSTALLED
10. ALL PATHWAY ROUGH-IN WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. COORDINATE WITH THE ELECTRICAL CONTRACTOR ON ALL PATHWAY REQUIREMENTS.

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

CAT	AUGMENTED
EA	CATEGORY
FPP	EACH
HWM	FIBER PATCH PANEL
IDF	HORIZONTAL WIRE MANAGEMENT
MDF	INTERMEDIATE DISTRIBUTION FRAME
NIC	MAIN DISTRIBUTION FRAME
OE	NOT IN CONTRACT
PNM	OWNER ELECTRONICS
PR	PLENUM
PS	PAIR
RPP	POWER SUPPLY
SPP	RISER PATCH PANEL
TYP	TYPE S PATCH PANEL
VWM	TYPICAL
	VERTICAL WIRE MANANGEMENT

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

ELECTRONIC SYSTEMS: THE TERM "ELECTRONIC SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

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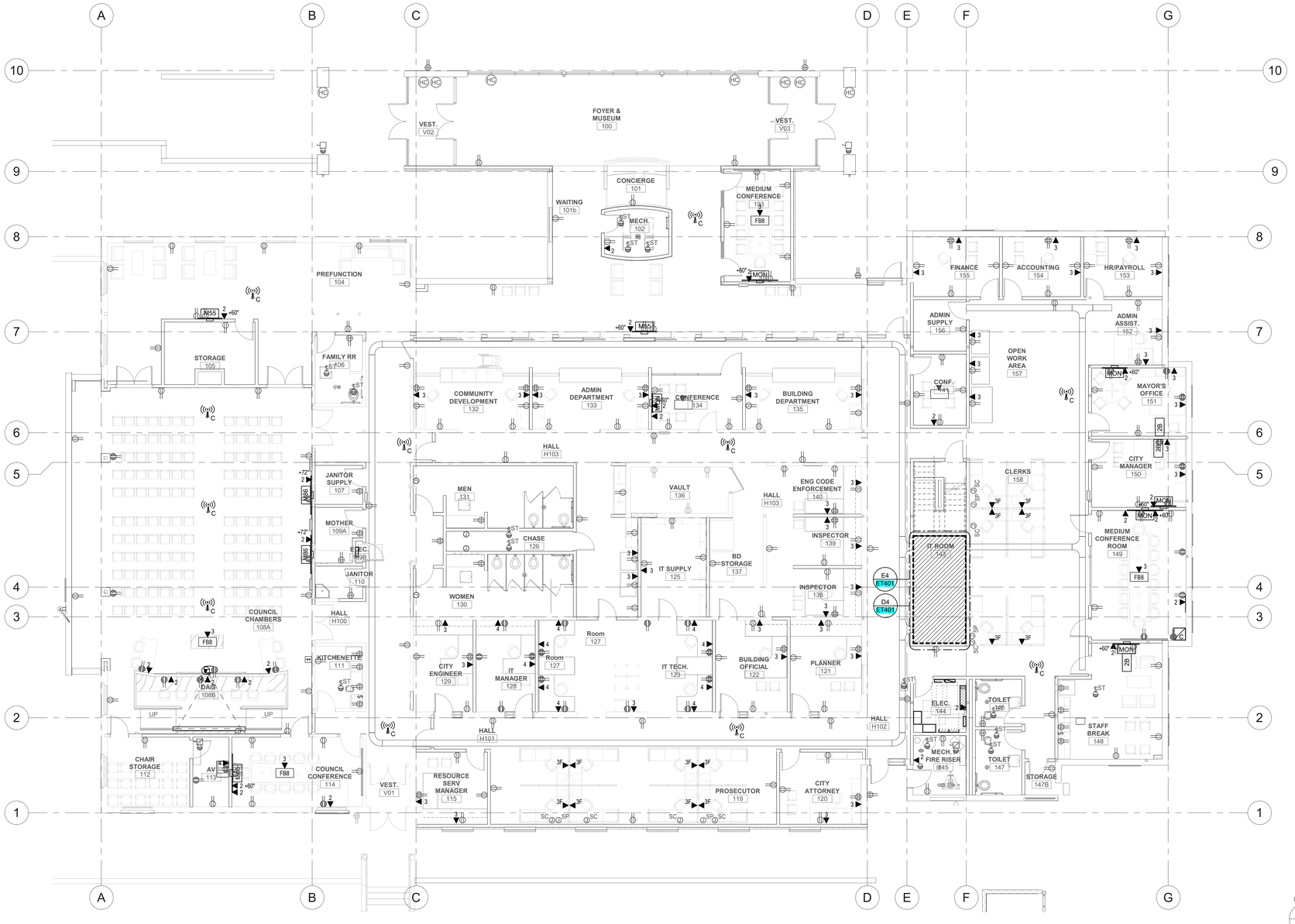
NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1

ISSUE
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28 AUGUST 2019

SHEET NAME
TELECOM SCHEDULE AND NOTES

SHEET NUMBER
ET001

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E1 LEVEL 1 TELECOMMUNICATIONS FLOOR PLAN

SCALE: 1/8" = 1'-0"

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GENERAL SHEET NOTES

SHEET KEYNOTES

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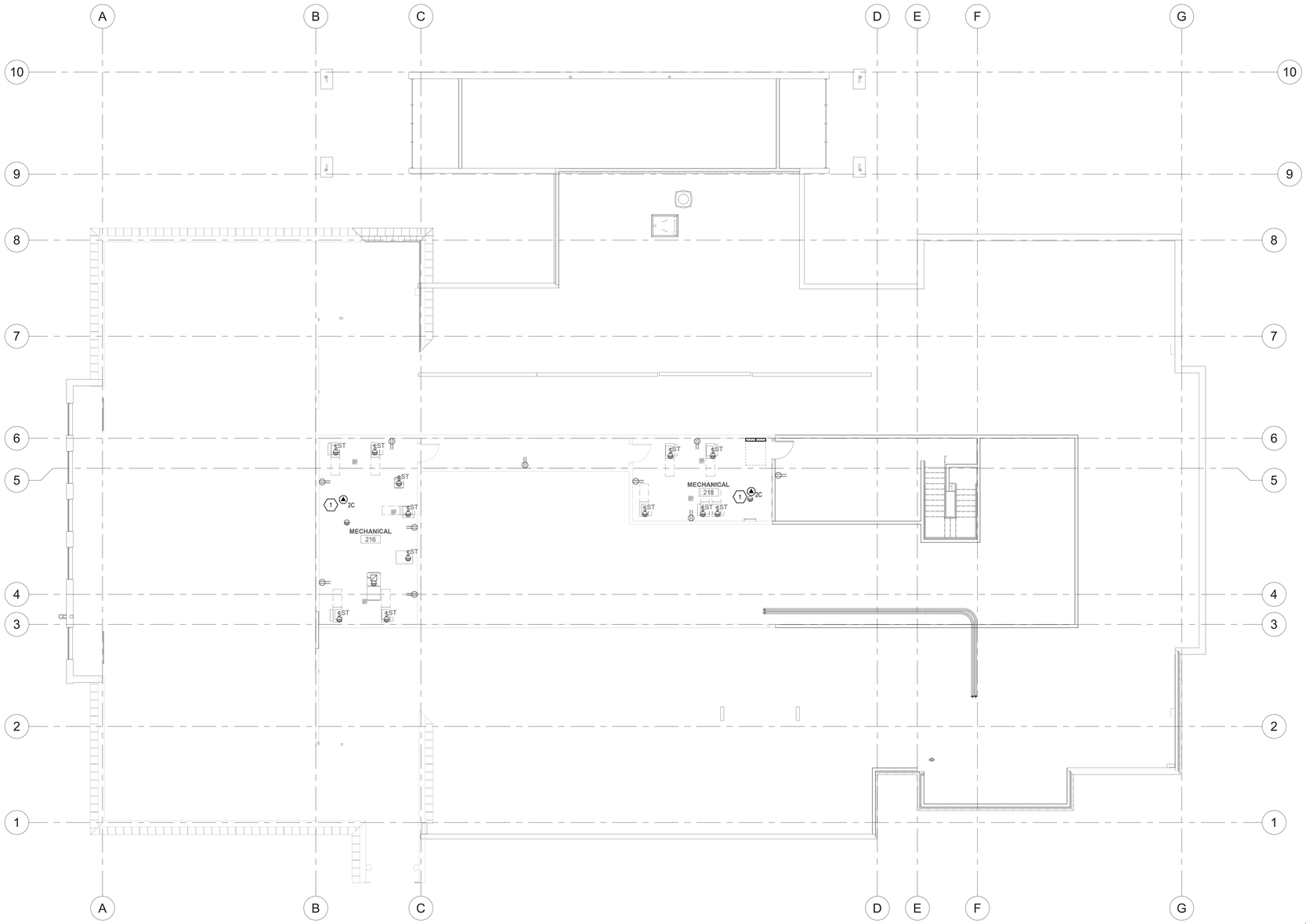
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2	06-28-2019	ADDENDUM 2

ISSUE
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28 AUGUST 2019

SHEET NAME
LEVEL 1
TELECOM FLOOR
PLAN

SHEET NUMBER
ET101



E1 LEVEL 2 TELECOMMUNICATIONS FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH

0 4' 8' 16'

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GENERAL SHEET NOTES

SHEET KEYNOTES

1 COORDINATE FINAL TERMINATION LOCATION WITH MECHANICAL INSTALLER

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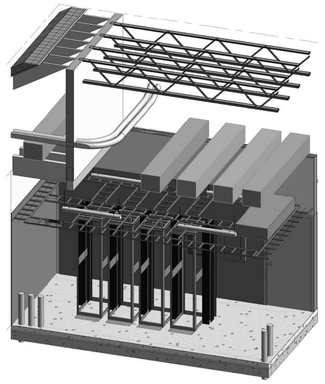
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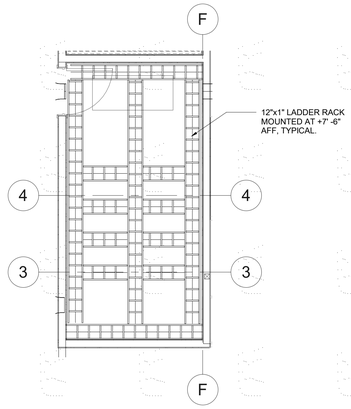
SHEET NAME
LEVEL 2
TELECOM FLOOR
PLAN

SHEET NUMBER
ET102



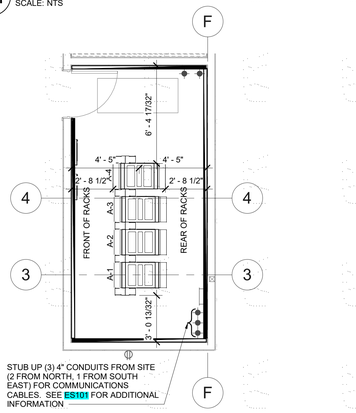
ENLARGED IT ROOM 143 ISOMETRIC PLAN

C4 SCALE: NTS



ENLARGED IT ROOM 143 LADDER RACK PLAN

D4 SCALE: NTS



ENLARGED IT ROOM 143 EQUIPMENT PLAN

E4 SCALE: NTS

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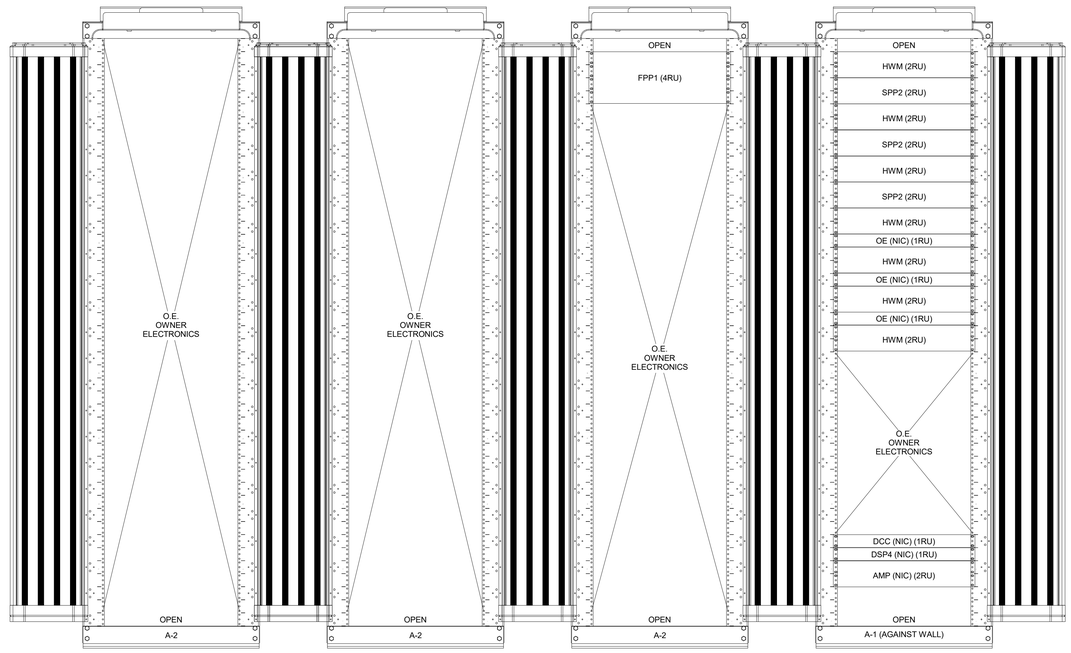
ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
ENLARGED TELECOM PLANS

SHEET NUMBER
ET401

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DATA DEVICE DROP SCHEDULE - IT ROOM 143			
DATA DEVICE TYPE	AREA	TOTAL BY FLOOR	# OF DROPS
LEVEL 1			
Ceiling AV Data - 1 Drop (for Surveillance)	IT ROOM 143	5	5
Ceiling Data - 2 Drop (for Surveillance)	IT ROOM 143	8	16
Ceiling Data - 3 Drop (for Surveillance)	IT ROOM 143	1	3
Ceiling Wireless Access Point - 2-Drop	IT ROOM 143	11	22
Floor Data - 2 Drop	IT ROOM 143	8	16
Furniture Data - 2 Drop	IT ROOM 143	2	4
Furniture Data - 3 Drop	IT ROOM 143	12	36
Wall Data - 2 Drop	IT ROOM 143	20	40
Wall Data - 3 Drop	IT ROOM 143	43	129
Wall Data - 4 Drop	IT ROOM 143	11	44
LEVEL 2			
Ceiling Data - 2 Drop	IT ROOM 143	2	4
Grand total		123	319



A4 EQUIPMENT RACK ELEVATION, LEVEL 1, IT 143

NO SCALE

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LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

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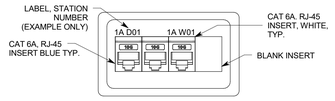
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ISSUE
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28 AUGUST 2019

SHEET NAME
TELECOM RACK ELEVATIONS

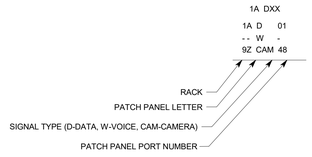
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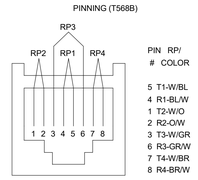
A2 TYPICAL FURN DATA OUTLET

NO SCALE ▼3F



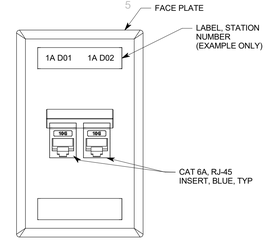
A3 CABLE ID EXAMPLE DETAIL

NO SCALE



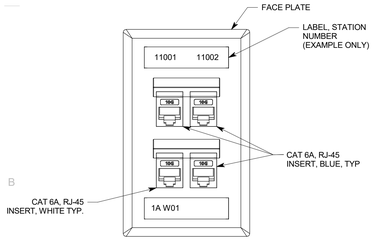
A4 VOICE/DATA OUTLET PINNING DETAIL

NO SCALE



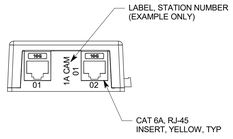
A5 DATA OUTLET

NO SCALE ▼2



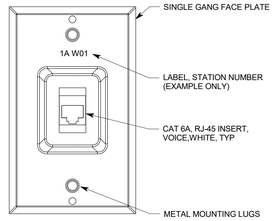
B1 DATA OUTLET

NO SCALE ▼4



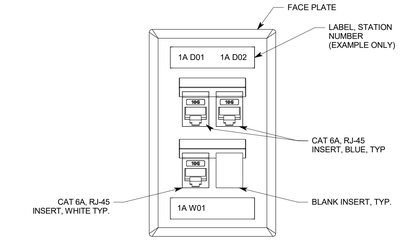
B2 CAMERA OUTLET

NO SCALE



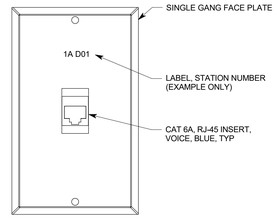
B3 VOICE OUTLET

NO SCALE ▼W



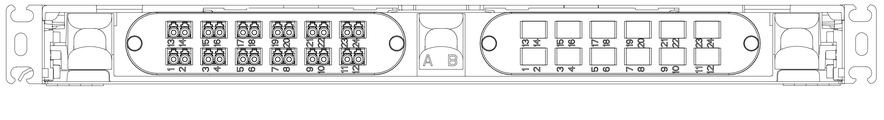
B4 DATA OUTLET

NO SCALE ▼3



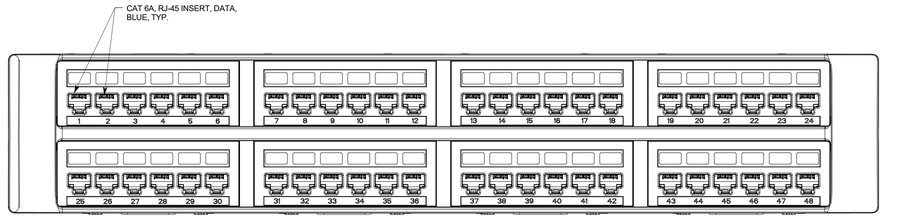
B5 DATA OUTLET

NO SCALE ▼



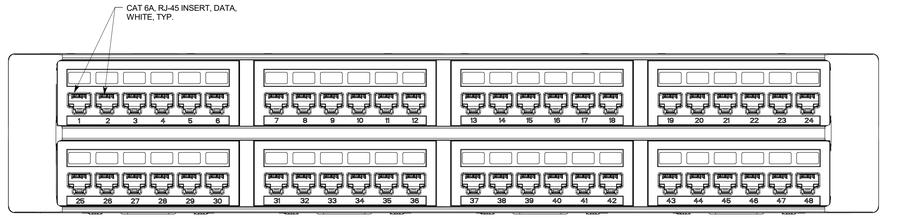
C3 FIBER PATCH PANEL, TYPICAL FPP1

NO SCALE



D3 STATION PATCH PANEL, TYPICAL SPP1

NO SCALE



E3 VOICE PACTH PANNEL, TYPICAL VPP1

NO SCALE

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8/14/2019

MHTN PROJECT NO. PROJ #2018576

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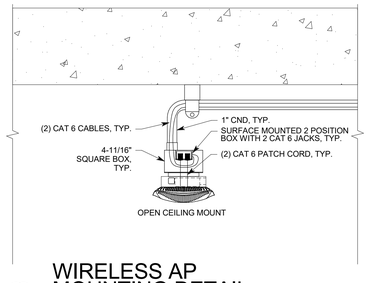
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SHEET NAME
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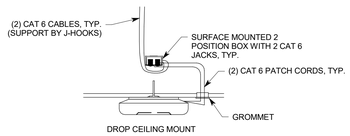
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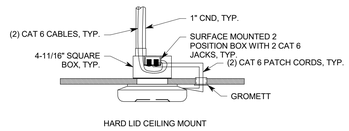
A2 WIRELESS AP MOUNTING DETAIL

NO SCALE



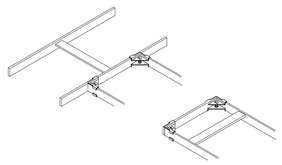
B1 WIRELESS AP MOUNTING DETAIL

NO SCALE



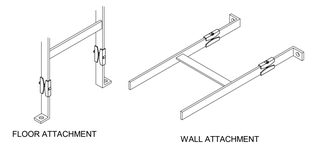
B2 WIRELESS AP MOUNTING DETAIL

NO SCALE



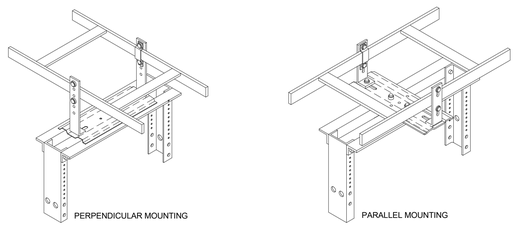
C1 CABLE RUNWAY END CLOSING/ SPLICE DETAIL

NO SCALE



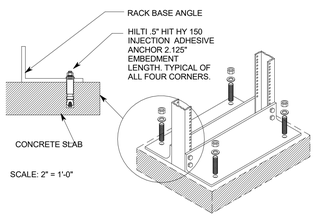
C2 FOOT/WALL ATTACHMENT DETAIL

NO SCALE



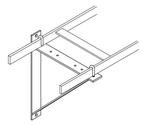
D1 6" CHANNEL RACK-TO-RUNWAY MOUNTING PLATE

NO SCALE



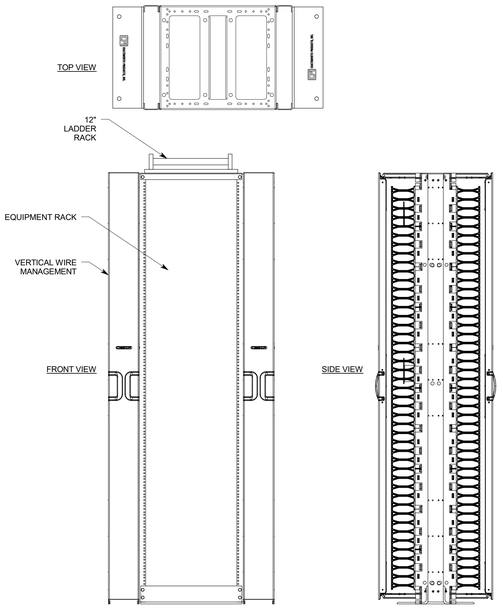
E1 EQUIPMENT RACK/ ENCLOSED CABINET ANCHORAGE DETAIL

NO SCALE



E2 TRIANGLE BRACKET DETAIL

NO SCALE



E3 EQUIPMENT RACK/RACEWAY MOUNTING

NO SCALE

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LICENSED PROFESSIONAL ENGINEER
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Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

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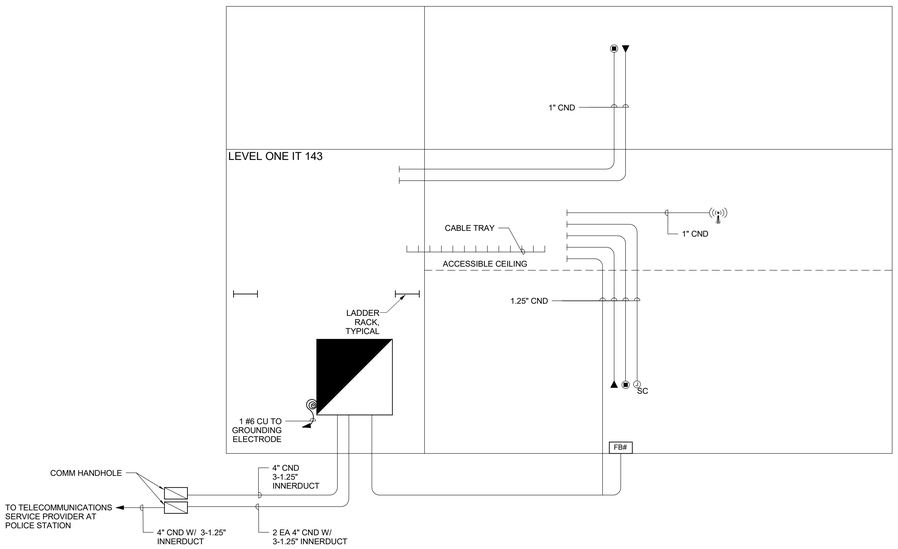
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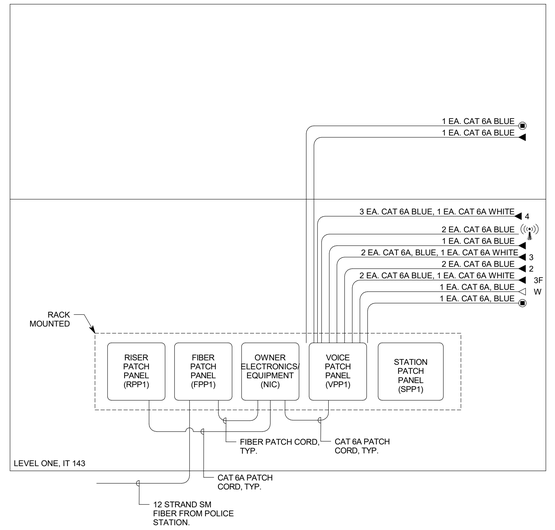
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1 TELECOM CONDUIT RISER DIAGRAM

NO SCALE



1 TELECOM CABLE RISER DIAGRAM

NO SCALE

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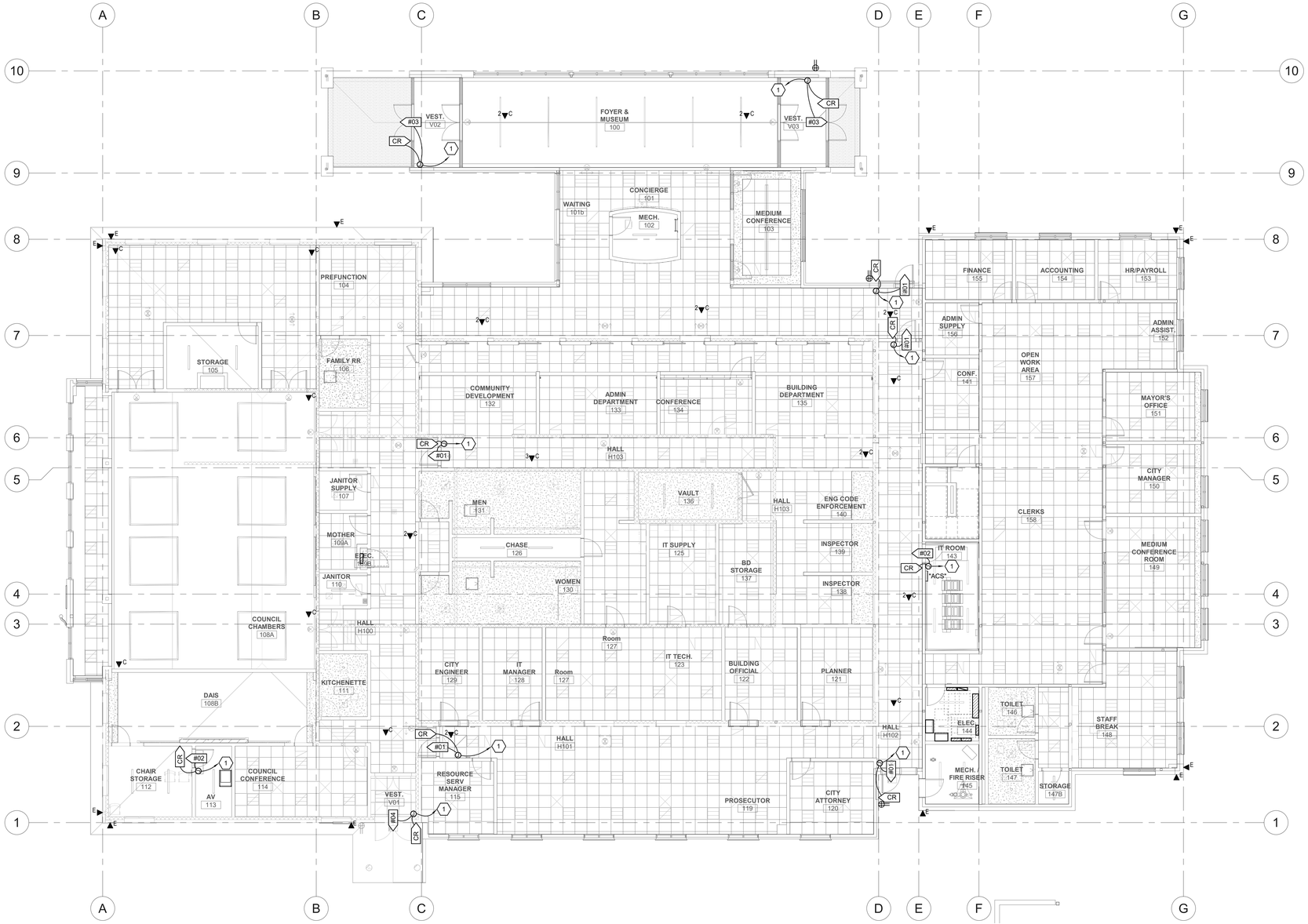
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1	06-25-2019	ADDENDUM 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
TELECOM CONDUIT AND CABLE RISER DIAGRAM

SHEET NUMBER
ET601



E1 LEVEL 1 AUXILIARY PLAN

SCALE: 1/8" = 1'-0"

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GENERAL SHEET NOTES

1 COORDINATE FINAL LOCATIONS AND MOUNTING HEIGHTS OF ALL ACCESS CONTROL DEVICES WITH ACCESS CONTROL INSTALLER PRIOR TO ROUGH-IN.

2 CAMERA'S BY KAYSVILLE, PROVIDE CABLE, TERMINATIONS AND CONDUIT/PATHWAY ONLY FOR THE SURVEILLANCE SYSTEM.

SHEET KEYNOTES

1 PROVIDE 1" CONDUIT TO ACS IN IT 143.

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NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1

ISSUE
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28 AUGUST 2019

SHEET NAME
LEVEL 1
AUXILIARY PLAN

SHEET NUMBER
EY101

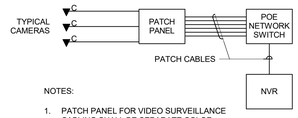
SECURITY EQUIPMENT SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING*	ROUGH-IN REQUIREMENTS	QTY	CABLE TYPES
CR	CARD READER	40"	4SQ BOX W/ 1G RING	OFP	SEE SECTION 281300
#1	CARD ACCESS DOOR TYPE, TYPICAL. REFER TO CARD ACCESS DOOR TYPE SCHEDULE	SEE SCHEDULE	SEE SCHEDULE	OFP	REFER TO CARD ACCESS DOOR TYPE SCHEDULE & SECTION 281300
CI	CONTACT INDICATOR (DOOR POSITION SWITCH)	SEE SCHEDULE	SEE SCHEDULE	OFP	SEE SECTION 281300
#▼C ▼E	VSS CAMERA/ENCLOSURE TYPE, TYPICAL. REFER TO VSS CAMERA/ENCLOSURE TYP SCHEDULE	SEE SCHEDULE	SEE SCHEDULE	OFP	SEE VSS ENCLOSURE TYPE SCHEDULE
ACS	CARD ACCESS CONTROLLERS & POWER SUPPLIES	72"	4" X 4" GUTTER AND STUBS A/R	A/R	SEE SECTION 281300
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER "TVSS"	AS NOTED	A/R	A/R	
VSS	VIDEO SURVEILLANCE SYSTEM	RACK MOUNTED			COORDINATE WITH OWNER

* COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS BEFORE INSTALLATION.

VSS ENCLOSURE TYPE SCHEDULE

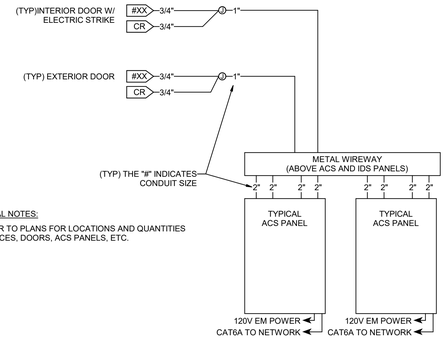
CAMERA TYPE NUMBER	SYMBOL	DESCRIPTION	INCLUDES
TYPE 1	▼C	ABOVE CEILING MOUNTED OUTLET BOX FOR SURVEILLANCE - 1 PORT	* JUNCTION BOX FOR CAMERA (CAMERA BY KAYSVILLE). 3/4" CONDUIT TO VIDEO SURVEILLANCE PATCH PANEL
TYPE 2	2▼C	ABOVE CEILING MOUNTED OUTLET BOX FOR SURVEILLANCE - 2 PORT	* JUNCTION BOX FOR CAMERA (CAMERA BY KAYSVILLE). 3/4" CONDUIT TO VIDEO SURVEILLANCE PATCH PANEL
TYPE 3	3▼C	ABOVE CEILING MOUNTED OUTLET BOX FOR SURVEILLANCE - 3 PORT	* JUNCTION BOX FOR CAMERA (CAMERA BY KAYSVILLE). 1" CONDUIT TO VIDEO SURVEILLANCE PATCH PANEL
TYPE 4	▼E	EXTERIOR MOUNTED OUTLET BOX FOR SURVEILLANCE - 1 PORT	EXTERIOR RATED JUNCTION BOX FOR CAMERA (CAMERA BY KAYSVILLE). 3/4" CONDUIT TO VIDEO SURVEILLANCE PATCH PANEL



NOTES:

1. PATCH PANEL FOR VIDEO SURVEILLANCE CABLING SHALL BE SEPARATE COLOR (YELLOW) FROM REST OF LAN SYSTEM.
2. CABLE, PATCH PANEL, TERMINATION AND TESTING SHALL BE PER ANSI/TIA 568C STANDARDS.
3. THE OPTION TO TIE THE VIDEO SURVEILLANCE SWITCH NETWORK TO THE I.T. LAN IS TO BE DETERMINED B Y THE OWNER.

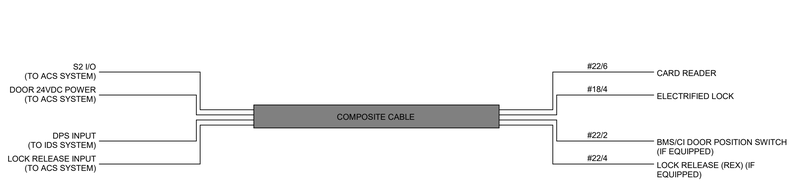
B3 TYPICAL SURVEILLANCE CONNECTION SINGLE LINE DIAGRAM
SCALE: NTS



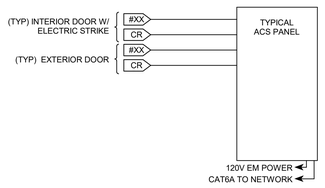
GENERAL NOTES:

A. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES, DOORS, ACS PANELS, ETC.

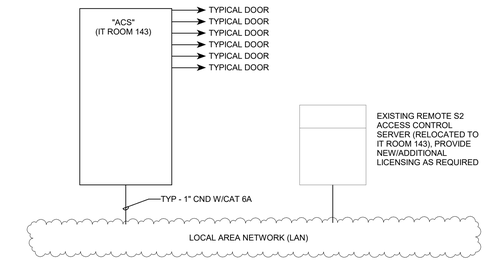
B5 TYPICAL ACS RACEWAY DIAGRAM
SCALE: NTS



C1 TYPICAL SECURITY WIRING DETAIL
SCALE: NTS



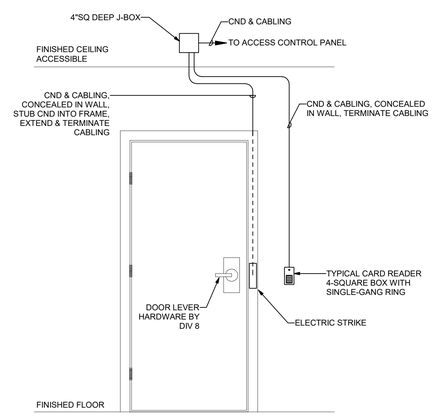
C3 TYPICAL ACS PANEL
SCALE: NTS



C5 ACCESS CONTROL RISER DIAGRAM
SCALE: NTS

CARD ACCESS DOOR TYPE SCHEDULE

DOOR TYPE #	SYMBOL	DESCRIPTION	PROTECTED SIDE ELEVATION	UNPROTECTED SIDE ELEVATION	LOCK TYPE(S)	DIVISION OF WORK AND COMMENTS
TYPE 01	TO ACS; CR; #01; HARDWARE SETS: 01, 22	SINGLE DOOR, 1 CARD READER DOOR CONTACT ELECTRIC STRIKE, MOTION REX	4SQ J-BOX ABOVE ACC CEILING; MOTION REX; .75" C (TYP); ELECTRIC STRIKE; CONTACT INDICATOR 1G BOX IN FRAME	4SQ J-BOX ABOVE ACC CEILING; .75" C (TYP); CARD READER 4SQ BOX W/ 1G RING; 40"	ELECTRIC LOCKSET	SECURITY CONTRACTOR PROVIDES: • CR, L/PS HARDWARE CONTRACTOR PROVIDES: • CI, ES, MS LOCK CONTROLLED BY: • CR
TYPE 02	TO ACS; CR; #02; HARDWARE SETS: 17	SINGLE DOOR, 1 CARD READER DOOR CONTACT ELECTRIC STRIKE	4SQ J-BOX ABOVE ACC CEILING; .75" C (TYP); ELECTRIC STRIKE; CONTACT INDICATOR 1G BOX IN FRAME	4SQ J-BOX ABOVE ACC CEILING; .75" C (TYP); CARD READER 4SQ BOX W/ 1G RING; 40"	ELECTRIC LOCKSET	SECURITY CONTRACTOR PROVIDES: • CR, L/PS HARDWARE CONTRACTOR PROVIDES: • CI, ES LOCK CONTROLLED BY: • CR
TYPE 03	TO ACS; #03; CR; HARDWARE SETS: A1	DOUBLE DOOR, 1 CARD READER, ELECTRIC STRIKE IN REMOVABLE MULLION	CONTACT INDICATOR .75" C (TYP); DBL 4SQ J-BOX ABOVE ACC CEILING; JAMB AUTO ACTUATOR; ELECTRIC STRIKE IN MULLION (X2); MOTION REX	DBL 4SQ J-BOX ABOVE ACC CEILING; .75" C (TYP); CARD READER 4SQ BOX W/1G RING; 40"; AUTO ACTUATOR	ELECTRIC LOCKSET W/ TRANSFER HINGE	SECURITY CONTRACTOR PROVIDES: • CR, L/PS HARDWARE CONTRACTOR PROVIDES: • ES, MS, CI, ACUTATORS LOCK CONTROLLED BY: • CR
TYPE 04	TO ACS; #04; CR; HARDWARE SETS: A2	DOUBLE DOOR, 1 CARD READER, ELECTRIC STRIKE IN REMOVABLE MULLION	CONTACT INDICATOR .75" C (TYP); DBL 4SQ J-BOX ABOVE ACC CEILING; ELECTRIC STRIKE IN MULLION (X2); MOTION REX	DBL 4SQ J-BOX ABOVE ACC CEILING; .75" C (TYP); CARD READER 4SQ BOX W/1G RING; 40"	ELECTRIC LOCKSET W/ TRANSFER HINGE	SECURITY CONTRACTOR PROVIDES: • CR, L/PS HARDWARE CONTRACTOR PROVIDES: • ES, MS, CI, ACUTATORS LOCK CONTROLLED BY: • CR



E5 TYPICAL SINGLE DOOR ELECTRIC STRIKE AND CARD READER DETAIL
SCALE: NTS

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LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

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CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
AUXILIARY RISER DIAGRAMS

SHEET NUMBER
EY601

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AUDIO-VIDEO ROUGH-IN SCHEDULE

SYMBOL	DESCRIPTION	MOUNTING	SPECIAL INSTRUCTIONS
FB8 / CP1 / CP6	FLOOR BOX, REFER TO "EP" SHEETS FOR MANUFACTURER AND MODEL		
EP	JUNCTION BOX FOR INFRARED EMITTER PANEL, 4-11/16" SQUARE WITH 1-GANG MUD RING	FLUSH IN THE FINISHED CEILING	SEE DETAIL C4/EJ501
MON	JUNCTION BOX FOR MONITOR, CHIEF PAC 526FCX ARCHITECT TO SELECT COLOR	FLUSH IN WALL AT +60" AFF	
M86	JUNCTION BOX FOR MONITOR, CHIEF PAC 526FCX ARCHITECT TO SELECT COLOR	FLUSH IN WALL AT +60" AFF UNLESS OTHERWISE NOTED ON PLANS	
M55	JUNCTION BOX FOR MONITOR, CHIEF PAC 526FCX ARCHITECT TO SELECT COLOR	FLUSH IN WALL AT +60" AFF	
2B	JUNCTION BOX, 4-11/16" SQUARE WITH 2-GANG MUD RING	SURFACE MOUNTED AT ELECTRICAL OUTLET HEIGHT	
CP#	JUNCTION BOX, 4-11/16" SQUARE WITH 2-GANG MUD RING	SURFACE MOUNTED AT ELECTRICAL OUTLET HEIGHT	
TP	JUNCTION BOX FOR TOUCH PANEL, 4-11/16" SQUARE WITH 2-GANG MUD RING	FLUSH IN WALL AT ELECTRICAL SWITCH HEIGHT	
UD	JUNCTION BOX FOR PROJECTION SCREEN UP/DOWN SWITCH, 4-11/16" SQUARE WITH 1-GANG MUD RING, MAXIMUM DEPTH FOR STUD SPACE	FLUSH MOUNTED IN THE WALL AT ELECTRICAL SWITCH HEIGHT	COORDINATE INSTALLATION LOCATIONS WITH LIGHT SWITCHES AND PROJECTION SCREENS
	24" X 24" JUNCTION BOX FOR PROJECTOR, FSR CP-22SP	FLUSH IN FINISHED CEILING	COORDINATE LOCATION WITH AV INSTALLER
	PROJECTION SCREEN, ELECTRIC ROLL-UP, SEE "TA" SHEETS	FLUSH IN FINISHED CEILING	TERMINATE CONTROL CABLE CONDUIT TO PROJECTION SCREEN ENCLOSURE. REFER TO DISPLAY DEVICE SCHEDULE FOR LOCATION OF PROJECTION SCREEN
S	SPEAKER BACKING HARDWARE, JBL CONTROL 47 C/T	FLUSH IN THE FINISHED CEILING	SEE DETAIL A4/EJ501
SC	SPEAKER BACKING HARDWARE, JBL CONTROL 47 HC	FLUSH IN THE FINISHED CEILING	SEE DETAIL A4/EJ501
/1	EQUIPMENT RACK, FURNISHED AND INSTALLED BY AV CONTRACTOR	FLOOR	
C	JUNCTION BOX, 14-1/2" SQUARE, 3" DEEP	FLUSH IN THE WALL AT ELECTRICAL OUTLET HEIGHT	COORDINATE WITH ARCHITECTS MILLWORK DRAWINGS
	CONDUIT, EMPTY, REFER TO CONDUIT RISER DIAGRAM FOR SIZE		
	JUNCTION BOX FOR CAMERA, 4-11/16" SQUARE WITH 2-GANG MUD RING	FLUSH IN THE WALL AT +96" AFF, EXCEPT WHERE NOTED ON DRAWINGS	
M	CEILING MICROPHONE LOCATION		FURNISHED AND INSTALLED BY AV INSTALLER

DISPLAY DEVICE SCHEDULE

FP = FLAT PANEL, PS = PROJECTION SCREEN

ROOM TYPE	ROOM #	LEVEL	CEILING HEIGHT	DISPLAY TYPE	PROJECTED IMAGE HEIGHT	PROJECTED IMAGE WIDTH	APPROX. PROJECTOR THROW DISTANCE	FLAT PANEL SIZE (diagonal)	ASPECT RATIO	COMMENTS
WAITING	101b	LEVEL 1		FP				55"	16:9	
MEDIUM CONFERENCE	103	LEVEL 1		FP				80"	16:9	ROUGH-IN ONLY
PREFUNCTION	104	LEVEL 1		FP				55"	16:9	
COUNCIL CHAMBERS	108A	LEVEL 1		FP				86"	16:9	
COUNCIL CHAMBERS	108A	LEVEL 1		FP				86"	16:9	
DAIS	108B	LEVEL 1			65"	116"	9' - 1"		16:9	
COUNCIL CONFERENCE	114	LEVEL 1		FP				86"	16:9	
CONFERENCE	134	LEVEL 1		FP				42"	16:9	ROUGH-IN ONLY
STAFF BREAK	148	LEVEL 1		FP				55"	16:9	ROUGH-IN ONLY
MEDIUM CONFERENCE ROOM	149	LEVEL 1		FP				80"	16:9	ROUGH-IN ONLY
CITY MANAGER	150	LEVEL 1		FP				55"	16:9	ROUGH-IN ONLY
MAYOR'S OFFICE	151	LEVEL 1		FP				55"	16:9	ROUGH-IN ONLY

GENERAL AV ROUGH-IN NOTES

1. IF THE ENCLOSURES, BOXES, & CABINETS SPECIFIED ARE NOT PROVIDED FROM THE MANUFACTURER, WITH THE REQUIRED KNOCK OUTS FOR THE SPECIFIED CONDUIT, FIELD CUT ALL REQUIRED KNOCK OUTS TO TERMINATE THE QUANTITY AND SIZES OF THE SPECIFIED CONDUITS.
2. MAINTAIN MAXIMUM SEPARATION BETWEEN AV SYSTEM CONDUIT AND ALL POWER CONDUIT.
3. INSTALL NYLON PULL STRINGS IN ALL AV SYSTEM CONDUIT.
4. PROVIDE NYLON BUSHINGS IN ALL SPECIFIED CONDUIT STUBS.
5. COVER ALL INSTALLED JUNCTION BOXES, MUD RINGS, AND OPENINGS IN FLOOR BOXES BLANK COVER PLATES.
6. INSTALL ALL EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS, SEISMIC CODES, AND INDUSTRY WIDE ACCEPTED RIGGING PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM STRUCTURE ABOVE CEILINGS. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

"A"	AUDIO
"AFF"	ABOVE FINISHED FLOOR
"A/R"	AS REQUIRED
"ADJ"	ADJACENT
"C"	CONDUIT
"CAT"	CATEGORY
"CFI"	CONTRACTOR FURNISHED AND INSTALLED
"CV"	COMPOSITE VIDEO
"DVI"	DIGITAL VISUAL INTERFACE
"DVD"	DIGITAL VERSATILE DISK
"E"	ENHANCED
"EA"	EACH
"EX"	EXISTING
"GR"	GROUND
"I.O.F."	INSTALLATION OF OWNER FURNISHED EQUIPMENT
"L"	LEFT AUDIO CHANNEL, LINE LEVEL
"N/A"	NOT APPLICABLE
"MIC"	MIC LEVEL AUDIO
"N.I.C."	NOT IN CONTRACT
"OFCI"	OWNER FURNISHED AND CONTRACTOR INSTALLED
"OFI"	OWNER FURNISHED AND INSTALLED
"OFP"	OBTAIN FROM PLANS
"QTY"	QUANTITY
"OP"	OWNER PROVIDED
"POE"	POWER OVER ETHERNET
"R"	RIGHT AUDIO CHANNEL, LINE LEVEL
"RGBHV"	COMPUTER VIDEO
"RMK"	RACK MOUNT KIT
"RU"	RACK UNIT, 1.75"
"TYP"	TYPICAL
"V"	VOLT
"VHS"	VIDEO HOME SYSTEM
"W"	WITH
"YC"	S-VIDEO
"YPP"	COMPONENT VIDEO
"VGA"	VIDEO GRAPHICS ARRAY

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS SCALE IN THE CONTRACT DOCUMENT SCALE. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED" WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS. THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC..

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LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

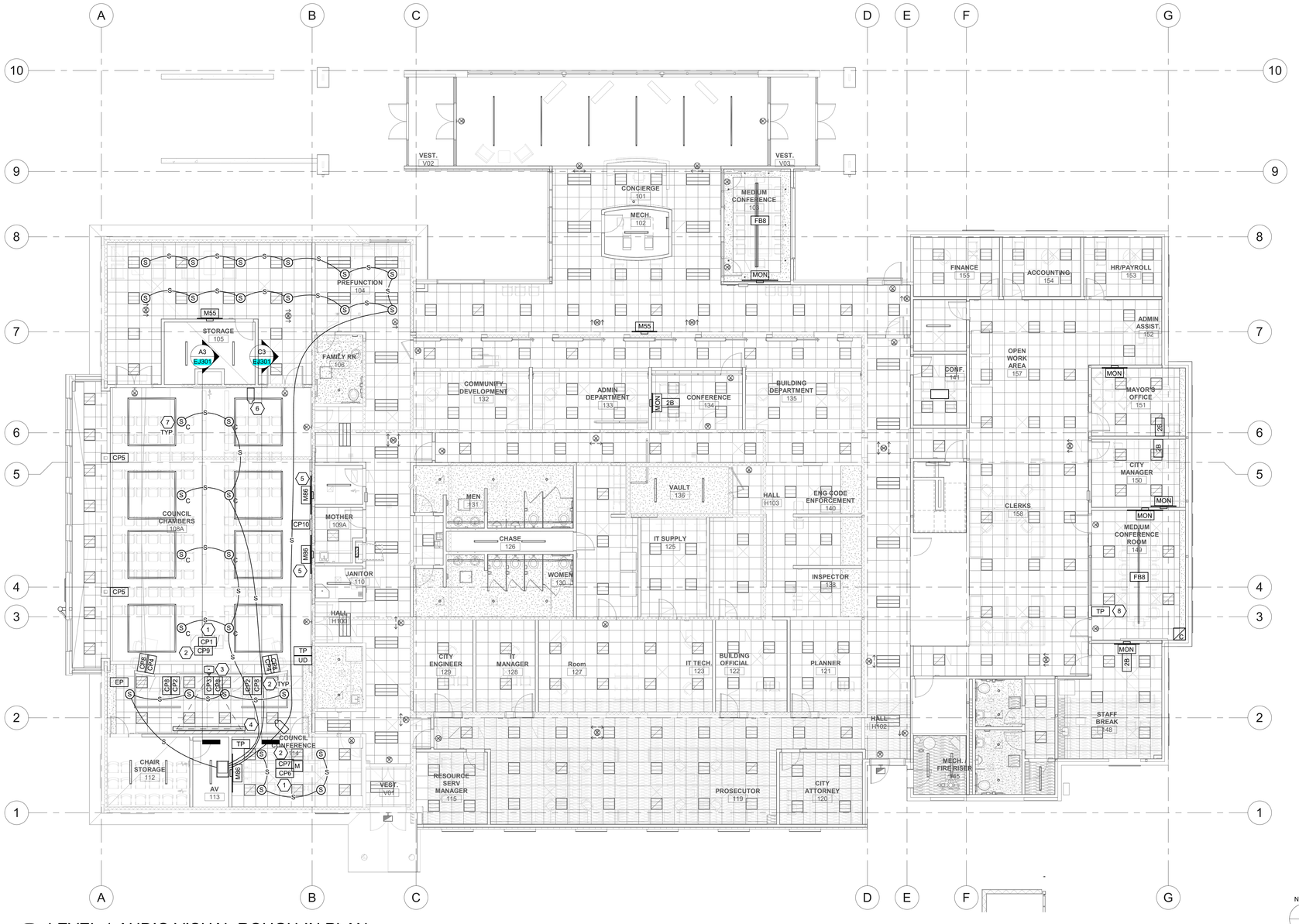
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ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
AUDIO VISUAL ROUGH-IN SCHEDULES AND NOTES

SHEET NUMBER
EJ001

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A3 LEVEL 1 AUDIO VISUAL ROUGH-IN PLAN
SCALE: 1/8" = 1'-0"

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SHEET KEYNOTES

1 INSTALL THE SPECIFIED FLOOR BOX FLUSH IN THE CONCRETE FLOOR AND INSTALL THE SPECIFIED CONNECTION PANEL IN THIS BOX.

2 INSTALL THE SPECIFIED CONNECTION PANEL FLUSH IN THE MILLWORK HORIZONTAL WORK SURFACE. CONFIRM EXACT LOCATION WITH THE ARCHITECT PRIOR TO INSTALLATION.

3 INSTALL PROJECTOR ALONG CENTER LINE OF SCREEN IMAGE. COORDINATE EXACT PROJECTOR LOCATION WITH AV INSTALLER.

4 COORDINATE HORIZONTAL LOCATION OF AV DEVICES WITH PROJECTION SCREEN. LOCATE SO THAT DEVICES ARE NOT COVERED BY PROJECTION SCREEN WHEN ROLLED DOWN.

5 INSTALL THE SPECIFIED MONITOR JUNCTION BOX AT +75" AFF TO CENTER OF BOX. INSTALL MONITOR ON SPECIFIED BRACKET OVER PREVIOUSLY INSTALLED JUNCTION BOX.

6 INSTALL THE SPECIFIED CAMERA JUNCTION BOX AT +108" AFF. INSTALL CAMERA ON WALL-MOUNT BRACKET OVER PREVIOUSLY INSTALLED JUNCTION BOX.

7 REMOVE EXISTING SPEAKERS AND REPLACE WITH SPECIFIED SPEAKERS IN SAME LOCATIONS.

8 PROVIDE AV RACEWAY ONLY FOR THIS LOCATION FOR FUTURE TOUCH PANEL.

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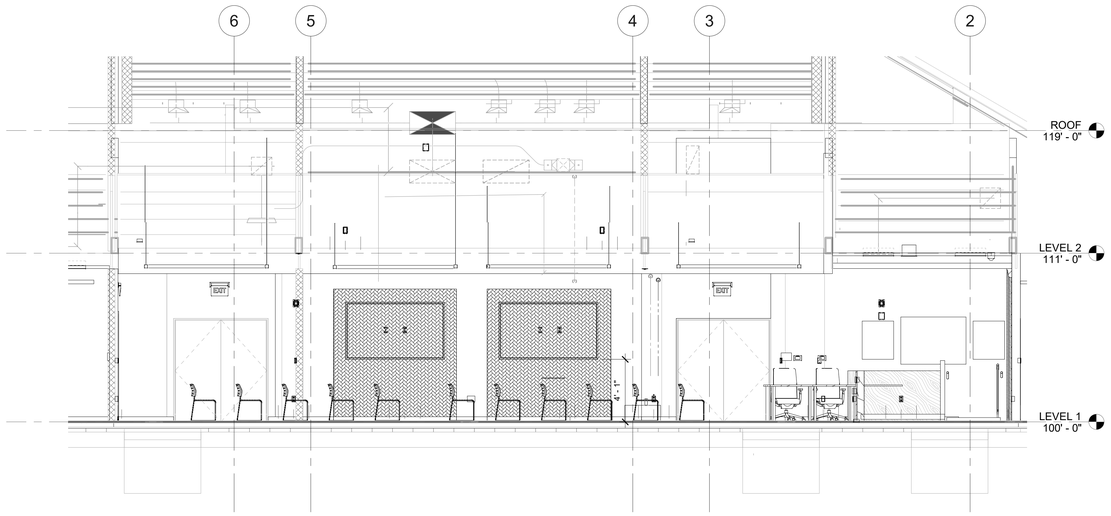
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NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1

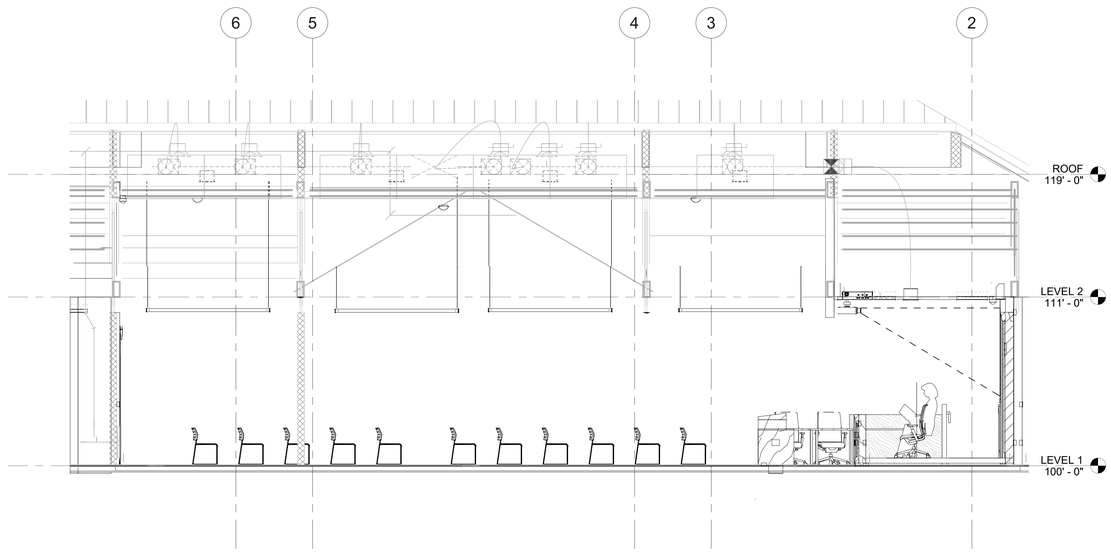
ISSUE
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28 AUGUST 2019

SHEET NAME
LEVEL 1 AUDIO VISUAL ROUGH-IN PLAN

SHEET NUMBER
EJ101



C3 COUNCIL CHAMBERS EAST ELEVATION
SCALE: 1/4" = 1'-0"



A3 COUNCIL CHAMBERS AUDIO VISUAL SECTION
SCALE: 1/4" = 1'-0"

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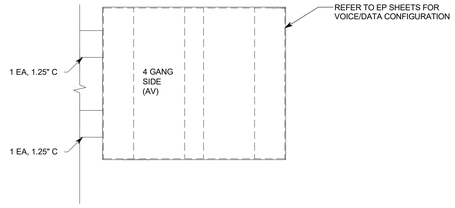
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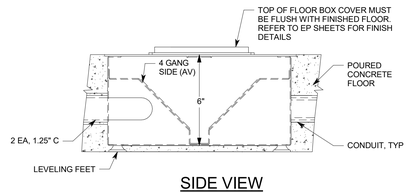
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SHEET NAME
AUDIO VISUAL SECTION & ELEVATIONS

SHEET NUMBER
EJ301



BOTTOM VIEW



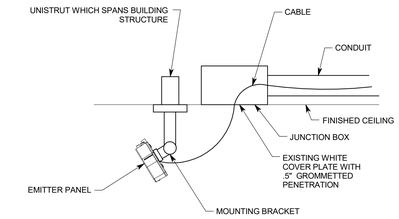
SIDE VIEW

NOTE: CONDUITS SIZES SHOWN ARE BASIS OF DESIGN. PROVIDE CONDUITS PER APPROVED SUBMITTAL

C2 FLOOR BOX CONDUIT TERMINATION DETAIL

NO SCALE TYPICAL OF MEDIUM CONFERENCE 103, 149

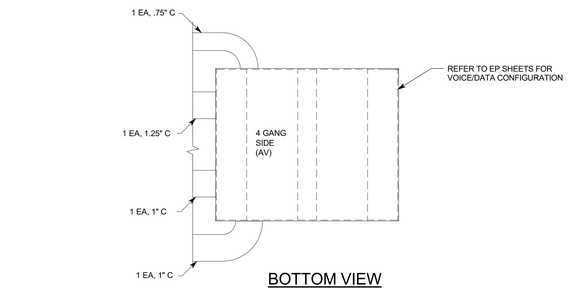
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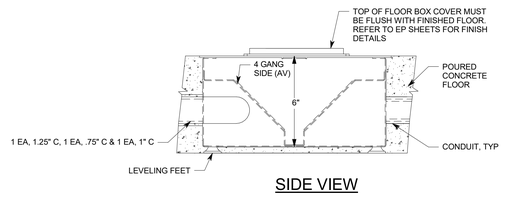
C4 MODULATOR/EMITTER PANEL INSTALLATION DETAIL

NO SCALE

EP



BOTTOM VIEW



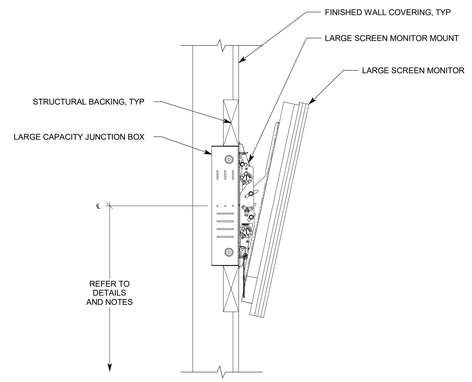
SIDE VIEW

NOTE: CONDUITS SIZES SHOWN ARE BASIS OF DESIGN. PROVIDE CONDUITS PER APPROVED SUBMITTAL

E2 FLOOR BOX CONDUIT TERMINATION DETAIL

NO SCALE TYPICAL OF COUNCIL CHAMBERS 108A

CP1 CP6



E4 LARGE SCREEN MONITOR MOUNTING DETAIL

NO SCALE

M##

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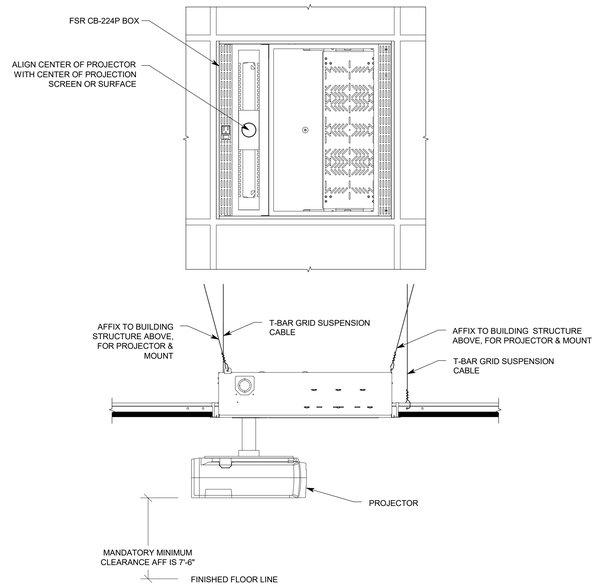
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ISSUE
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28 AUGUST 2019

SHEET NAME
AUDIO VISUAL ROUGH-IN DETAILS

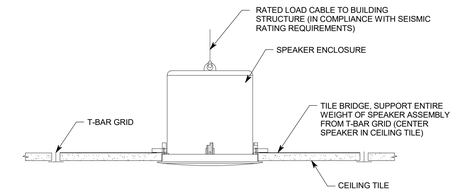
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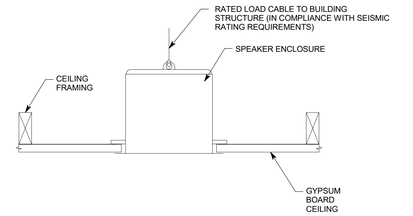


C4 LAY-IN CEILING PROJECTOR MOUNT INSTALLATION DETAIL

NO SCALE



LAY-IN CEILING TILE



GYPSUM BOARD CEILING

E4 CEILING SPEAKER INSTALLATION DETAIL

NO SCALE

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STATE OF UTAH
6/14/2019

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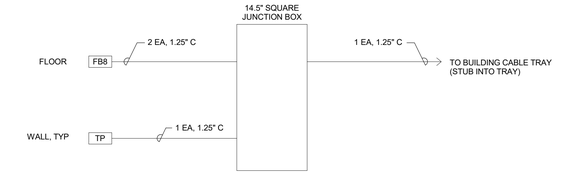
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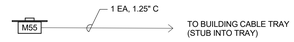
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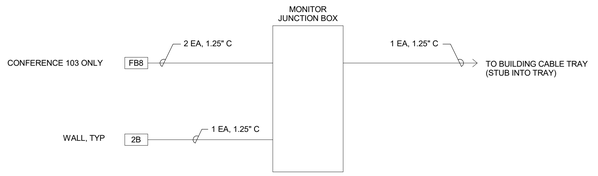
A4 AV SYSTEM RACEWAY RISER DIAGRAM

NO SCALE - TYPICAL OF MEDIUM CONFERENCE ROOM 149



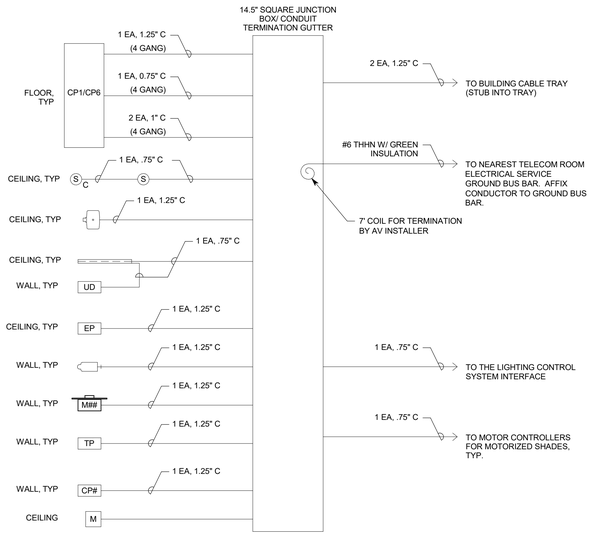
B4 BUILDING WIDE DISPLAY AV SYSTEMS RISER DIAGRAM

NO SCALE - TYPICAL OF DIGITAL SIGNAGE



C4 AV SYSTEM RACEWAY RISER DIAGRAM

NO SCALE - TYPICAL OF CONFERENCE ROOMS 103, 134, OFFICES 150, 151 & STAFF BREAK 148



E4 AV SYSTEM RACEWAY RISER DIAGRAM

NO SCALE - TYPICAL OF COUNCIL CHAMBERS 108A, COUNCIL DAIS 108B, PRE-FUNCTION 104, COUNCIL CHAMBERS 114

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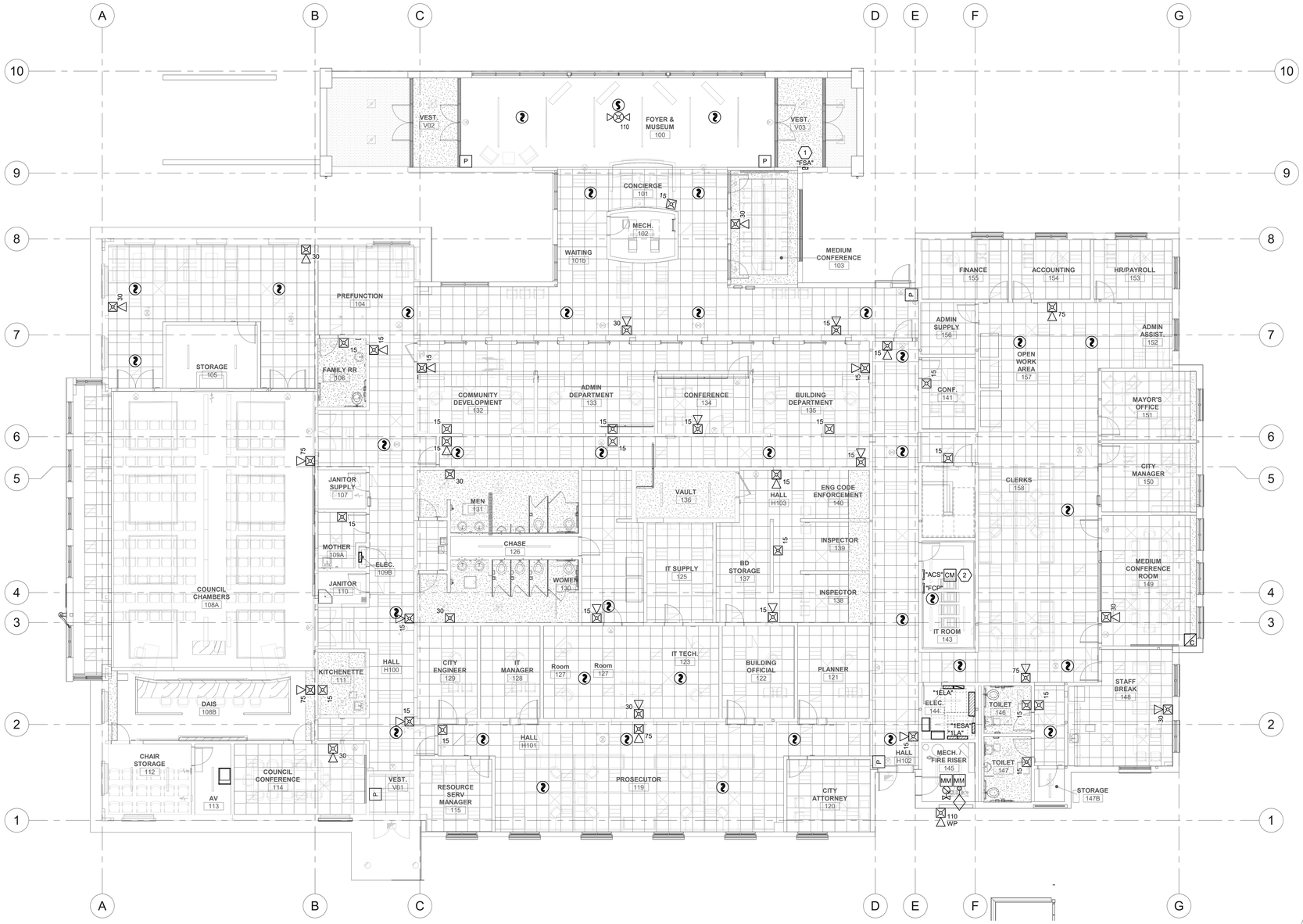
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ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
AUDIO VISUAL ROUGH-IN DIAGRAMS

SHEET NUMBER
EJ601

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E1 LEVEL 1 FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

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GENERAL SHEET NOTES

1 FIRE ALARM CIRCUITS SHALL BE CLASS A WIRING.

2 FINAL CIRCUITING, ADDRESSES, AND NOTIFICATION POWER SUPPLIES TO BE PROVIDED BY CONTRACTOR ON SHOP DRAWINGS.

SHEET KEYNOTES

1 COORDINATE LOCATION FOR FIRE ALARM ANNUNCIATOR WITH AHJ AND ADJUST AS REQUIRED.

2 CONTROL MODULE FOR FIRE ALARM & ACCESS CONTROLS INTEGRATION.

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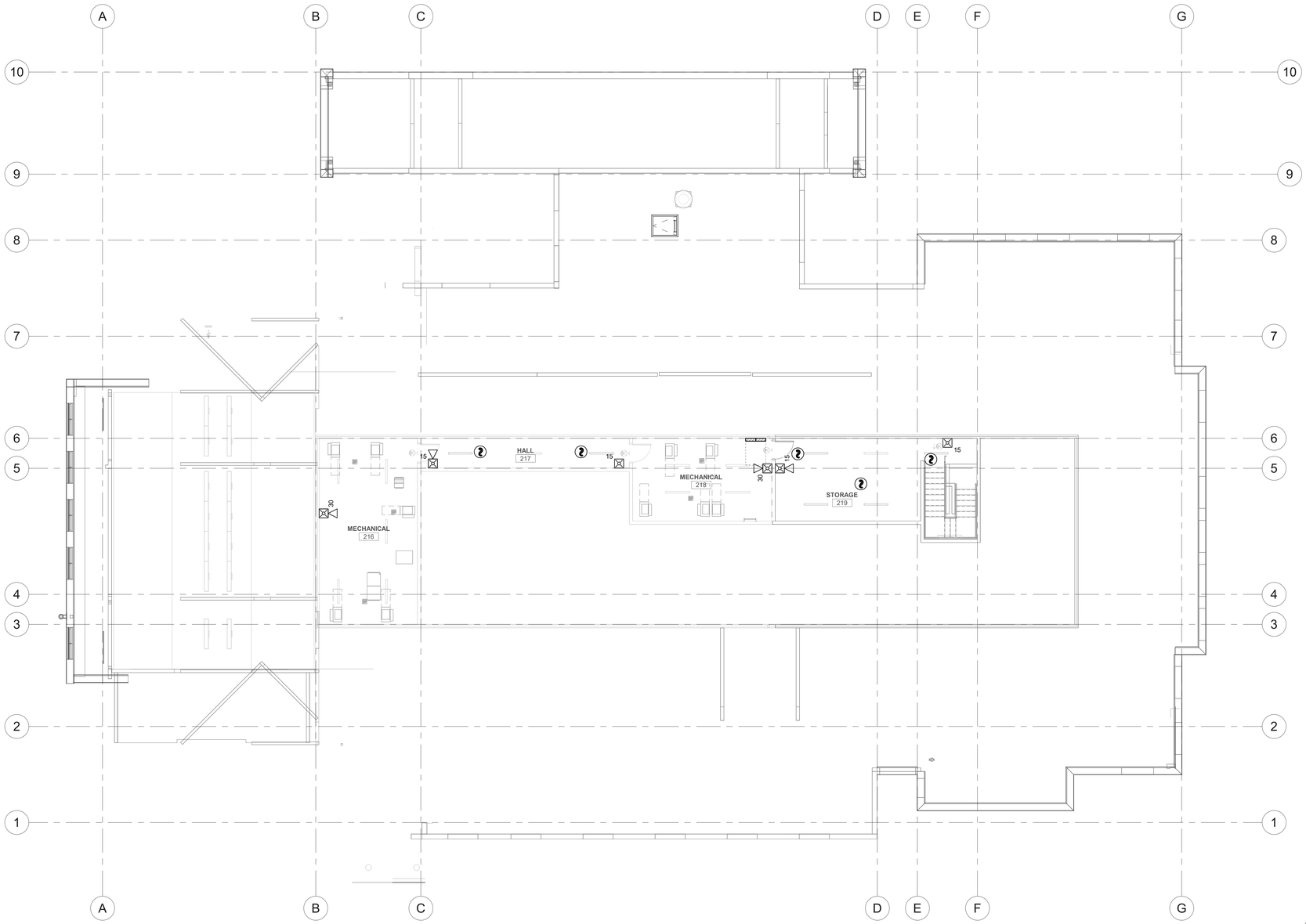
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NO.	DATE	DESCRIPTION

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
LEVEL 1 FIRE ALARM PLAN

SHEET NUMBER
FA101



E1 LEVEL 2 FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

NORTH

0 4' 8' 16'

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GENERAL SHEET NOTES

1 FIRE ALARM CIRCUITS SHALL BE CLASS A WIRING.

2 FINAL CIRCUITING, ADDRESSES, AND NOTIFICATION POWER SUPPLIES TO BE PROVIDED BY CONTRACTOR ON SHOP DRAWINGS.

SHEET KEYNOTES

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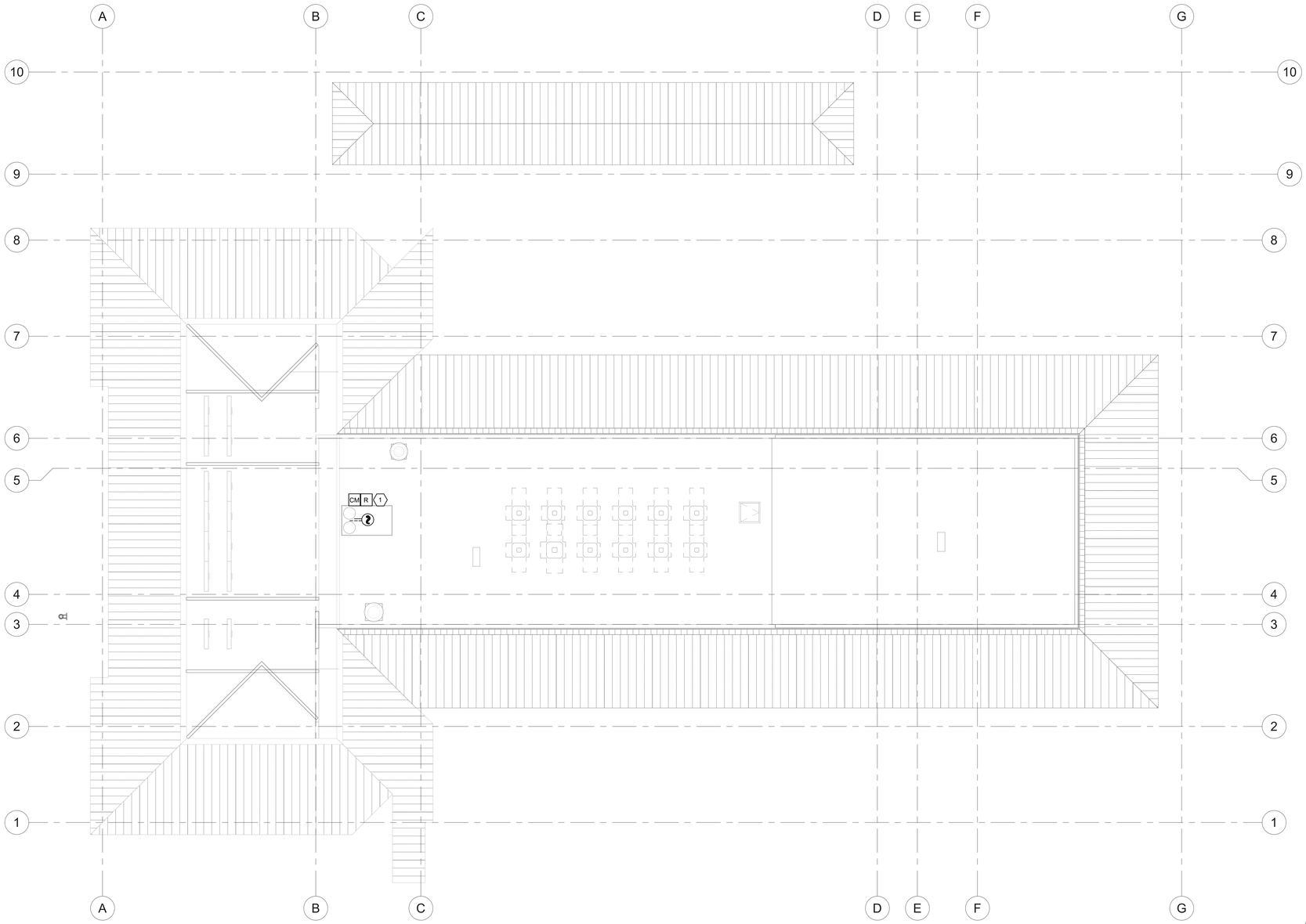
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SHEET NAME
LEVEL 2 FIRE ALARM PLAN

SHEET NUMBER
FA102



E1 ROOF FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

NORTH

0 4' 8' 16'

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GENERAL SHEET NOTES

1 FIRE ALARM CIRCUITS SHALL BE CLASS A WIRING.

2 FINAL CIRCUITING, ADDRESSES, AND NOTIFICATION POWER SUPPLIES TO BE PROVIDED BY CONTRACTOR ON SHOP DRAWINGS.

SHEET KEYNOTES

1 CONTROL MODULE AND RELAY FOR FAN SHUTDOWN.

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ISSUE
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28 AUGUST 2019

SHEET NAME
ROOF FIRE ALARM PLAN

SHEET NUMBER
FA103

NOTIFICATION SCHEDULE

SYMBOL	STROBE SIZE	COVERAGE	AVERAGE CURRENT	MAXIMUM PER CIRCUIT ALONE
15	15 CD	20'x20'	.085A	17
30	30 CD	30'x30'	.135A	11
75	75 CD	40'x40'	.200A	7
110	110 CD	50'x50'	.225A	6

WIRING SCHEDULE

FUNCTION	< 500'	< 1000'	1000'-3000'	> 3000'
ADDRESSABLE LOOP	#18 TSP	#18 TSP	#16 TSP	#14 TSP
POWER LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN
SPARE LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN
STROBE HORNS	#14 THWN	#14 THWN	#12 THWN	#10 THWN
MAGNETIC DOOR HOLDER	#12 THWN	#10 THWN		
SPEAKERS	#16 TSP	#16 TSP	#14 TSP	#14 TSP

GENERAL SHEET NOTES

1 PLANS ARE BASED UPON 99 MONITOR AND CONTROL DEVICES PER ADDRESSABLE LOOP. OTHER CONFIGURATIONS ARE ACCEPTABLE SUBJECT TO CONTRACTOR ALLOWING FOR INCREASED WIRING REQUIREMENTS AND SUBMITTAL DRAWINGS SHOWING NEW WIRING CONFIGURATION. MAXIMUM INITIAL DEVICES PER LOOP SHALL NOT EXCEED 75% MAXIMUM ALLOWABLE.

2 PLANS ARE BASED UPON THE WIRING SCHEDULE SHOWN. WHERE MANUFACTURER'S REQUIREMENTS EXCEED REQUIREMENTS SHOWN, INCLUDE ADDITIONAL ASSOCIATED COSTS AND SUBMITTAL DRAWINGS INDICATING NEW WIRING CONFIGURATION.

3 PLANS ARE BASED UPON 2 AMPS AT 24 VDC, NOT TO EXCEED 75% (1.50 AMPS AVAILABLE). POWER SUPPLY CAPACITY PER NOTIFICATION CIRCUIT. NOTIFICATION DEVICE LOADS ARE BASED UPON NOTIFICATION DEVICE SCHEDULE SHOWN. INCLUDE ADDITIONAL ASSOCIATED COSTS FOR INCREASED WIRING AND POWER SUPPLY CAPACITY IF LOADS OF ACTUAL DEVICES PROVIDED EXCEED CIRCUIT CAPACITY, OR IF LOAD OUTPUT OF ACTUAL POWER SUPPLIES PROVIDED IS SIZED DIFFERENTLY. PROVIDE SUBMITTAL DRAWINGS SHOWING NEW WIRING CONFIGURATION.

4 FLOW AND TAMPER CONFIGURATION BASED UPON FIRE SPRINKLER DESIGN CONCEPT. FIELD VERIFY ACTUAL REQUIREMENTS. INCLUDE ANY ADDITIONAL MONITOR MODULES REQUIRED BY ACTUAL DESIGN REQUIREMENTS.

5 HEAT DETECTORS WHEN INSTALLED IN ELEVATOR SHAFTS OR MECHANICAL ROOMS FOR ELEVATOR SHUT DOWN SHALL HAVE HEAT DETECTOR WITH LOWER RESPONSE TIME INDEX THAN SPRINKLER HEAD.

6 PROVIDE POWER SUPPLY CAPACITY AS REQUIRED FOR DOOR HOLD OPENS SHOWN.

7 BATTERY CAPACITY TO BE ADEQUATE TO OPERATE 15 MINUTES AFTER 24 HOURS PLUS 25% SPARE CAPACITY.

8 VFD REQUIRES TWO RELAYS, ONE FOR SMOKE CONTROL, ONE SPARE.

9 RUN SPARE LOOPS IN SAME CONDUIT. DO NOT EXCEED 40% AREA FILL OF CONDUITS.

10 PROVIDE DUCT DETECTORS FOR SUPPLY AND RETURN AIR SYSTEMS OVER 2000 CFM. INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS AND PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.

11 PROVIDE DUCT DETECTOR AT EACH FLOOR, PRIOR TO CONNECTION TO A COMMON RETURN AND PRIOR TO RECIRCULATING OR FRESH AIR INLET IN AIR RETURN SYSTEMS OVER 15,000 CFM CAPACITY AND SERVING MORE THAN ONE STORY.

12 PROVIDE MANUAL PULL STATIONS IN BOILER ROOMS AND KITCHENS.

13 PROVIDE ONE YEAR OFF SITE MONITORING INCLUDING ALL INTERFACE DEVICES AND MONITORING CHARGES. COORDINATE WITH BUILDING OWNER'S OFF SITE MONITORING COMPANY.

14 LOCATE SMOKE DETECTORS MINIMUM 3' FROM AIR SUPPLY AND RETURN LOUVERS.

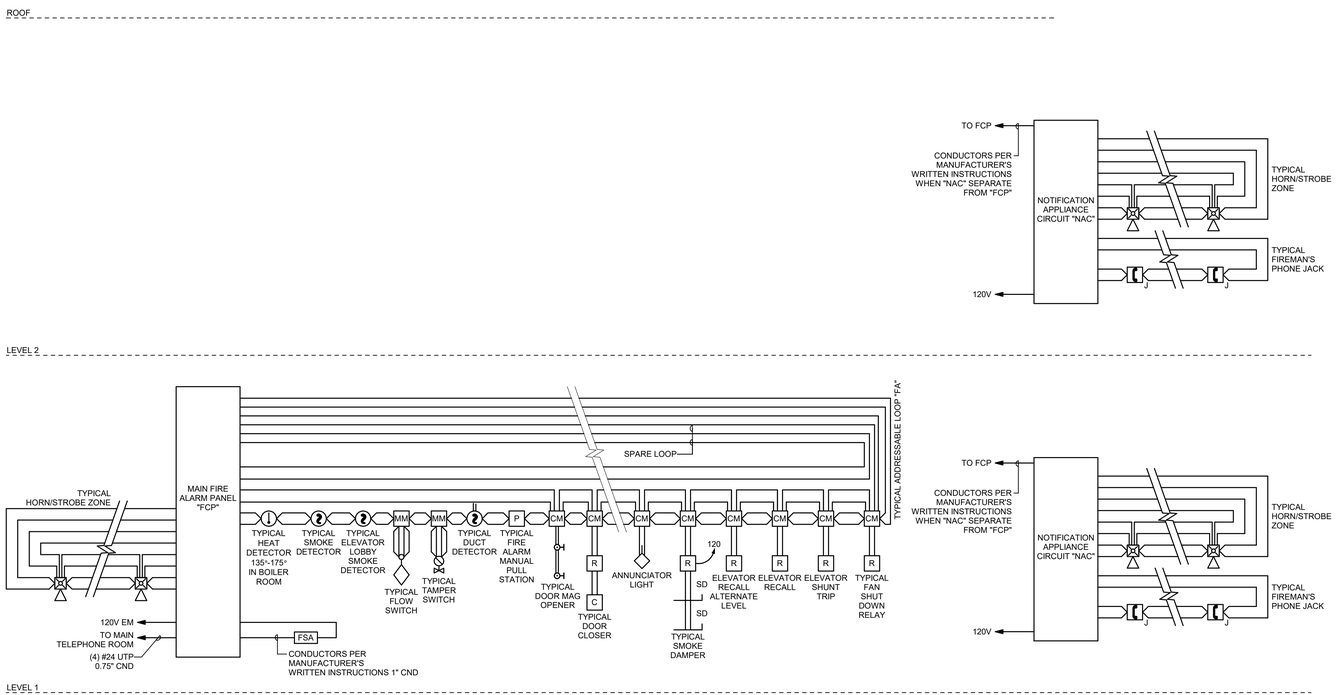
15 PROVIDE SYNCHRONIZED STROBES THROUGHOUT FACILITY. PROVIDE SYNCHRONIZATION MODULES PER MANUFACTURER'S REQUIREMENTS. INCLUDE ADDITIONAL WIRING, IF REQUIRED.

16 INITIATING AND INDICATING LOOPS SHALL NOT SERVE AN AREA OF GREATER THAN 22,500 SQUARE FEET. PROVIDE ADDITIONAL LOOPS FOR AREAS LARGER THAN THIS.

17 ALL OUTPUT DEVICES ARE DESIGNED ON SYSTEMS WITH 2 AMP POWER SUPPLY.

18 HORN/STROBE BASED ON 120 MILLIAMPS, DOOR HOLDERS BASED ON 70 MILLIAMPS.

19 INSTALL DUCT DETECTORS PER NFPA 72 REQUIREMENTS AND PROVIDE ADDITIONAL DUCT DETECTORS DEPENDING UPON FINAL DUCT ARRANGEMENT.



E1 FIRE ALARM RISER
SCALE: NTS

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6/14/2019

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SHEET NAME
FIRE ALARM RISER

SHEET NUMBER
FA601

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DISPLAY DEVICE SCHEDULE

FP = FLAT PANEL, PS = PROJECTION SCREEN

ROOM TYPE	ROOM #	LEVEL	CEILING HEIGHT	DISPLAY TYPE	PROJECTED IMAGE HEIGHT	PROJECTED IMAGE WIDTH	APPROX. PROJECTOR THROW DISTANCE	FLAT PANEL SIZE (diagonal)	ASPECT RATIO	COMMENTS
WAITING	101b	LEVEL 1		FP				55"	16:9	
MEDIUM CONFERENCE	103	LEVEL 1		FP				80"	16:9	ROUGH-IN ONLY
PREFUNCTION	104	LEVEL 1		FP				55"	16:9	
COUNCIL CHAMBERS	108A	LEVEL 1		FP				86"	16:9	
COUNCIL CHAMBERS	108A	LEVEL 1		FP				86"	16:9	
DAIS	108B	LEVEL 1			65"	116"	9' - 1"		16:9	
COUNCIL CONFERENCE	114	LEVEL 1		FP				86"	16:9	
CONFERENCE	134	LEVEL 1		FP				42"	16:9	ROUGH-IN ONLY
STAFF BREAK	148	LEVEL 1		FP				55"	16:9	ROUGH-IN ONLY
MEDIUM CONFERENCE ROOM	149	LEVEL 1		FP				80"	16:9	ROUGH-IN ONLY
CITY MANAGER	150	LEVEL 1		FP				55"	16:9	ROUGH-IN ONLY
MAYOR'S OFFICE	151	LEVEL 1		FP				55"	16:9	ROUGH-IN ONLY

AUDIO-VIDEO SYSTEMS CABLE SCHEDULE

NOTE 14

CABLE TYPE	DESCRIPTION	ACCEPTABLE TYPES	SPECIAL INSTRUCTIONS
M	MICROPHONE CABLE, 22 AWG, SHIELDED, TWISTED PAIR W/ DRAIN	BELDEN 82761 LIBERTY 22-IP-CMP-EZ-WHY WEST PENN D25454	
L	LINE LEVEL CABLE, 22 AWG, SHIELDED, TWISTED PAIR W/ DRAIN	BELDEN 82761 LIBERTY 22-IP-CMP-EZ-WHY WEST PENN D25454	
S	SPEAKER CABLE, 70 V, 16 AWG, TWISTED PAIR	WEST PENN 25225 LIBERTY 16-2C-TTP	
C	CONTROL CABLE, 24 AWG, 4 PAIR, OVERALL SHIELD	BELDEN 88104 WEST PENN D252404	
D	DATA CABLE, CATEGORY 6, W/BLACK JACKET	COMMSCOPE/TE 620P-BK02	
P	DIGITAL VIDEO CABLE, CATEGORY 6, TWISTED PAIR, SHIELDED	CRESTRON DM-CBL-ULTRA-P	
A	HDSDI CABLE, RG-6, COAXIAL	BELDEN 1695A WEST PENN 256350	
H	HDMI CABLE	EXTRON HDMI PRO SERIES	

AV SYSTEM CABLE INSTALLATION REQUIREMENTS SCHEDULE

ORIGIN	DESTINATION	CABLE TYPE	QUANTITY	SPECIAL INSTRUCTIONS
	ER	P	1	
	ER UD	C	1	
S	ER S	S	SEE INSTRUCTIONS	CIRCUIT SPEAKER SYSTEMS AND PROVIDE CABLE QUANTITIES AS SHOWN ON THE FLOOR PLAN DRAWINGS
S C	ER S C	S	SEE INSTRUCTIONS	CIRCUIT SPEAKER SYSTEMS AND PROVIDE CABLE QUANTITIES AS SHOWN ON THE FLOOR PLAN DRAWINGS
CP1	ER	M	1	
		S	1	USE FOR REMOTE POWER, IF NEEDED
		P	1	
CP2	ER	P	2	
CP3	ER	D	2	
		P	2	
CP5	ER	M	1	
CP10		P	1	
		S	1	USE FOR REMOTE POWER, IF NEEDED
CP6	ER	D	1	
		P	1	
ER	LIGHTING CONTROL SYSTEM	D	2	
EP	ER	L	1	
		S	1	USE FOR REMOTE POWER
TP	ER	D	1	
	ER	D	1	
		A	1	
M##	ER	P	1	

THE ABOVE REQUIREMENTS APPLY TO EACH LOCATION SHOWN ON LAYOUT DRAWINGS, AND DO NOT INCLUDE REQUIRED CABLE INSTALLATION INSIDE EQUIPMENT RACKS, LECTERNS, CREDENZAS, AND ENCLOSURES. ER = EQUIPMENT RACK

SPECIAL PROJECT NOTES

1. THE AUDIO AND VIDEO SYSTEM EQUIPMENT LIST IDENTIFIES EQUIPMENT ITEMS OF SIGNIFICANCE BY MANUFACTURER AND MODEL NUMBER. THE SOLE PURPOSE FOR THIS IS TO ESTABLISH LEVELS OF QUALITY AND INDIVIDUAL COMPONENT CAPABILITY FOR ALL EQUIPMENT ITEMS. IT IS NOT THE INTENT OF THE AUDIO AND VIDEO SYSTEM EQUIPMENT LIST TO PRECLUDE THE INSTALLATION OF EQUIPMENT ITEMS FABRICATED BY MANUFACTURERS OTHER THAN THOSE LISTED, SO FAR AS THEY ARE JUDGED TO BE EQUAL TO THOSE EQUIPMENT ITEMS IDENTIFIED IN THE LIST. IF BIDDERS WISH TO FURNISH AND INSTALL ITEMS OTHER THAN THOSE IDENTIFIED IN THE AUDIO AND VIDEO SYSTEM EQUIPMENT LIST APPROVAL MUST BE OBTAINED DURING THE BIDDING PROCESS. TO THIS END, A SUBSTITUTION REQUEST PROCESS HAS BEEN IDENTIFIED IN THE SPECIFICATIONS FOR OBTAINING APPROVAL TO FURNISH AND INSTALL APPROVED EQUAL EQUIPMENT ITEMS. THE SPECIFICATIONS AND COMPONENT CAPABILITY OF ALL PROPOSED EQUAL EQUIPMENT ITEMS THAT ARE SUBMITTED IN FULL COMPLIANCE WITH THE SUBSTITUTION PROCESS WILL BE STRICTLY EVALUATED DURING THE BIDDING PROCESS.

AUDIO-VIDEO SIGNAL TYPE ABBREVIATIONS SCHEDULE

ABBREVIATION	SIGNAL TYPE
AL	AUDIO, LEFT, (LINE LEVEL)
AR	AUDIO, RIGHT, (LINE LEVEL)
AA	ANALOG AUDIO
F	OPTICAL FIBER
V	VIDEO, COMPOSITE-STANDARD RESOLUTION ANALOG VIDEO
YC	S-VIDEO-STANDARD RESOLUTION ANALOG VIDEO
YUV	COMPONENT VIDEO-STANDARD RESOLUTION ANALOG VIDEO
RGBHV	RED, GREEN, BLUE, HORIZONTAL & VERTICAL SYNC-HIGH RESOLUTION ANALOG VIDEO
XGA/VGA	EXTENDED GRAPHICS ARRAY/VIDEO GRAPHICS ARRAY-HIGH RESOLUTION ANALOG VIDEO
DVI	DIGITAL VIDEO INTERFACE-HIGH RESOLUTION DIGITAL VIDEO
HDMI	HIGH DEFINITION MULTIMEDIA INTERFACE-HIGH RESOLUTION DIGITAL VIDEO
DP	DISPLAY PORT-HIGH RESOLUTION DIGITAL VIDEO
TP	TWISTED PAIR
IP	INTERNET PROTOCOL
SDI	SERIAL DIGITAL INTERFACE

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS SCALE IN THE CONTRACT DOCUMENTS SCALE. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS. THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

"A"	AUDIO
"A/R"	AS REQUIRED
"ADJ"	ADJACENT
"C"	CONDUIT
"CAT"	CATEGORY
"CFI"	CONTRACTOR FURNISHED AND INSTALLED
"CV"	COMPOSITE VIDEO
"DVI"	DIGITAL VISUAL INTERFACE
"DVD"	DIGITAL VERSATILE DISK
"E"	ENHANCED
"EA"	EACH
"EX"	EXISTING
"GR"	GROUND
"I.O.F."	INSTALLATION OF OWNER FURNISHED EQUIPMENT
"L"	LEFT AUDIO CHANNEL, LINE LEVEL
"N/A"	NOT APPLICABLE
"MIC"	MIC LEVEL AUDIO
"N.I.C."	NOT IN CONTRACT
"OFCI"	OWNER FURNISHED AND CONTRACTOR INSTALLED
"OFI"	OWNER FURNISHED AND INSTALLED
"OFP"	OBTAIN FROM PLANS
"QTY"	QUANTITY
"OP"	OWNER PROVIDED
"POE"	POWER OVER ETHERNET
"R"	RIGHT AUDIO CHANNEL, LINE LEVEL
"RGBHV"	COMPUTER VIDEO
"RMK"	RACK MOUNT KIT
"RU"	RACK UNIT, 1.75"
"TYP"	TYPICAL
"V"	VOLT
"VHS"	VIDEO HOME SYSTEM
"W/"	WITH
"YC"	S-VIDEO
"YPP"	COMPONENT VIDEO
"VGA"	VIDEO GRAPHICS ARRAY

GENERAL AUDIO-VIDEO NOTES

1. CONDUCT AN RF FREQUENCY AUDIT OF THE SITE PRIOR TO SELECTION OF WIRELESS RF OPERATING FREQUENCIES. SELECT FREQUENCIES TO ASSURE INTERFERENCE FREE OPERATION. INSTALL ANTENNAS/TRANCEIVERS OUTSIDE OF THE EQUIPMENT RACK, AT AN ARCHITECT APPROVED LOCATION, WHERE THE BEST SYSTEM PERFORMANCE IS ACHIEVED.
2. FILL ALL UNUSED RACK SPACE WITH BLANK/VENT PANELS.
3. INSTALL/SUSPEND ALL EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS, SEISMIC SPECIFICATION SECTION, AND INDUSTRY WIDE ACCEPTED RIGGING PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM STRUCTURE ABOVE CEILINGS. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.
4. PROVIDE MANUFACTURER RECOMMENDED POWER SUPPLIES AND/OR TRANSFORMERS FOR ALL SPECIFIED EQUIPMENT. WHERE THERE IS THE OPTION TO POWER A DEVICE LOCALLY OR REMOTELY FROM THE MAIN EQUIPMENT RACK, PROVIDE POWER AT MAIN EQUIPMENT RACK.
5. FURNISH AND INSTALL ALL CABLE AND CONNECTORS REQUIRED FOR ALL AUDIO AND VIDEO SYSTEMS TO COMPLETE MANUFACTURER RECOMMENDED CABLE TO EQUIPMENT TERMINATION TO FORM A COMPLETE AND FULLY FUNCTIONAL SYSTEM AS SHOWN. SELECT CONNECTORS WHICH PASS FULL BANDWIDTH CAPABILITY OF SPECIFIED CABLE. PROVIDE CABLE TYPES AS IDENTIFIED IN THE AUDIO/VIDEO CABLE SCHEDULE.
6. PROVIDE PATCH CABLES TO FULLY INTERCONNECT ALL SPECIFIED AND/OR OWNER FURNISHED EQUIPMENT WITH THE SPECIFIED CONNECTION PANELS, SYSTEM INTERFACES, AND MISCELLANEOUS EQUIPMENT.
7. PROVIDE MANUFACTURER RECOMMENDED, AND INDUSTRY STANDARD, SIGNAL LEVELS AND COMMUNICATION PROTOCOLS THROUGHOUT ENTIRE SYSTEM REGARDLESS OF CABLE LENGTHS. PROVIDE ALL REQUIRED DISTRIBUTION AND PROCESSING EQUIPMENT, INCLUDING BUT NOT LIMITED TO SIGNAL DISTRIBUTION AMPLIFIERS, LINE AMPLIFIERS, LINE DRIVERS, EQUALIZING AMPLIFIERS, GROUND/HUM ISOLATORS, MATCHING/ISOLATION TRANSFORMERS, CONTROL BUS DEVICES, COMMUNICATIONS CONVERTERS, ETC..., WHETHER SHOWN IN THE SINGLE LINE DIAGRAMS OR NOT.
8. PROVIDE POWER, CURRENT, AND/OR SIGNAL SENSORS FOR ALL EQUIPMENT WHERE IT IS NECESSARY FOR CORRECT CONTROL SYSTEM OPERATION.
9. PROVIDE PRE-MANUFACTURED ADAPTER CABLES WHERE REQUIRED FOR MATING CABLE TO CONNECTORS. THESE WILL INCLUDE, BUT ARE NOT LIMITED TO, ADAPTERS WHICH MATE DVI TO HDMI, STEREO AUDIO TO MONO AUDIO, RGBHV CABLE TO 15 PIN HD CONNECTORS, TWO VIDEO CABLES TO 4 PIN DIN CONNECTORS, AND OTHER SIMILAR TERMINATION AND MATING REQUIREMENTS.
10. PROVIDE RACK MOUNT KITS FOR ALL RACK MOUNTED EQUIPMENT. WHERE MANUFACTURERS DO NOT PROVIDE RACK MOUNT KITS, PROVIDE CUSTOM RACK MOUNT KITS AS SPECIFIED.
11. WHERE ANY CABLE IS INSTALLED IN A FASHION WHERE EXPOSED TO PUBLIC VIEW, INSTALL CABLE INSIDE THE SPECIFIED BRAIDED EXPANDABLE SLEEVING. EXAMPLES OF SUCH LOCATIONS INCLUDE, BUT ARE NOT LIMITED TO EQUIPMENT ITEMS ON LECTERNS AND CEILING MOUNTED PROJECTORS.
12. PROVIDE PERMANENT, MECHANICALLY PRODUCED LABELS ON ALL CABLES AT CONNECTORS AND TERMINATION POINTS.
13. CONTROL SPECIFIED DEVICES UTILIZING THE MOST SOPHISTICATED COMMUNICATIONS PROTOCOL AVAILABLE ON THE DEVICE TO BE CONTROLLED. ALWAYS USE RS-232 OR ETHERNET WHEN AVAILABLE.
14. COVER JUNCTION BOXES WITH NO SPECIFIED AV DEVICES WITH BLANK NYLON COVER PLATE. COLOR TO MATCH ELECTRICAL DEVICES.
15. PROVIDE ALL EQUIPMENT, CARDS, MEMORY, HARDWARE AND SOFTWARE TO NETWORK ALL CONTROL SYSTEM PROCESSORS TOGETHER USING THE S ETHERNET NETWORK. CONNECT EVERY CONTROL SYSTEM ' OWNER S NETWORK AND MAKE FULLY FUNCTIONAL WITH ' PROCESSOR TO THE OWNER THE EXISTING ROOM MANAGEMENT SOFTWARE PACKAGE.
16. POPULATE CONTROL SYSTEM CENTRAL PROCESSORS WITH RS-232 AND/OR RELAY OUTPUT CARDS AS REQUIRED TO COMPLY WITH THE CONTROL SYSTEM REQUIREMENTS IDENTIFIED IN THE CONTROL SYSTEM SINGLE LINE DIAGRAMS SHOWN IN THE DRAWINGS & THE PROGRAMMING OUTLINE IN THE SPECIFICATIONS.
17. PROVIDE THE SPECIFIED ETHERNET NETWORK SWITCHES IN ALL CONTROL SYSTEMS WHERE REQUIRED TO COMPLY WITH THE CONTROL SYSTEM SINGLE LINE DIAGRAMS SHOWN IN THE DRAWINGS, AND THE PROGRAMMING OUTLINE. CONNECT EVERY CONTROL SYSTEM PROCESSOR, TO THE OWNER'S ETHERNET NETWORK AND COMPLY WITH ALL PROGRAMING REQUIREMENTS.
18. CONNECT ALL SPECIFIED AV EQUIPMENT TO 120 VAC VIA A SPECIFIED TRANSIENT VOLTAGE SURGE SUPPRESSOR INCLUDING ALL MONITORS AND PROJECTORS.
19. SET EDID EMULATORS FOR ALL EDID CAPABLE DEVICES TO A RESOLUTION DESIGNATED BY THE OWNER/DESIGNER DURING THE SYSTEM COMMISSIONING PROCESS.
20. SET ALL PLAYBACK DEVICES (DVD, TUNERS, ETC...) TO RGB COLOR SPACE.
21. PROVIDE THE PLENUM RATED EQUIVALENT CABLE IF CABLE IS INSTALLED IN AN AIR PLENUM.
22. VERY CAREFULLY SUPPORT THE WEIGHT OF ALL HDMI CABLES CONNECTED TO RACK MOUNTED EQUIPMENT USING LOCKIT CABLE LACING BRACKETS AND RACK MOUNTED LACING BARS. PROFESSIONALLY DRESS, LACE, AND STRAIN RELIEF CABLES SO THAT NO WEIGHT FROM INDIVIDUAL HDMI CABLES IS TRANSFERRED TO INDIVIDUAL HDMI CONNECTORS.INSTALL THE SPECIFIED HDMI CABLE LACING BRACKETS ON ALL HDMI CONNECTORS IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
23. DO NOT INSTALL CABLES WITH CHOKES, RIGID JACKETS, OR OVERLY LARGE OUTSIDE DIAMETER INSIDE CABLE CUBBY CONNECTION PANELS. INSTALL ONLY CABLE CUBBY APPROVED CABLES.
24. FORWARD TOUCH PANEL BACK BOXES TO ELECTRICAL CONTRACTOR FOR INSTALLATION.
25. NON-STANDARD PROJECTOR LENSES MAY BE REQUIRED TO ACHIEVE THE IMAGE SIZES INDICATED IN THE DISPLAY DEVICE SCHEDULE WHEN PROJECTOR MOUNT LOCATION IS COORDINATED WITH LIGHTING AND MECHANICAL DEVICES.
26. INCLUDE (6) HEADWORN MICROPHONE RECEIVERS AND (4) HANDHELD RECEIVERS FOR THE WIRELESS SYSTEM FOR THIS ROOM.
27. COORDINATE FINAL MOUNT SELECTION WITH THE PROVIDED MONITOR PRIOR TO PURCHASE.
28. INSTALL THE SPECIFIED CABLE CUBBY FLUSH IN THE HORIZONTAL WORK SURFACE OF ALL CREDENZAS & LECTERNS.
29. SUBMIT PROPOSED EQUIPMENT/SOFTWARE ITEMS IN FULL COMPLIANCE WITH THE SUBSTITUTION REQUEST PROCESS IDENTIFIED IN THE PROJECT SPECIFICATIONS. ALL EQUIVALENT EQUIPMENT ITEMS MUST BE APPROVED A MINIMUM OF ONE WEEK PRIOR TO THE BID OPENING.
30. AFFIX THE SPECIFIED MONITORS TO THE SPECIFIED FLOOR STANDS AT THE HEIGHT OF THE PLATFORM SUCH THAT THE BOTTOM EDGE OF THE MONITOR IS SAME HEIGHT AS TOP OF PLATFORM.
31. IF A SUBSTITUTION REQUEST IS MADE FOR FURNITURE MOUNTED CONNECTION PANELS, IT IS THE RESPONSIBLY OF THE CONTRACTOR TO INFORM ALL VENDORS AND SUPPLIERS OF ASSOCIATED FURNITURE ITEMS REGARDING PENETRATION OPENING SIZES & CABLE MANAGEMENT.
32. POPULATE DIGITAL MATRIX SWITCHERS WITH INPUT/OUTPUT CARDS AS REQUIRED TO COMPLY WITH THE VIDEO SYSTEM SINGLE LINE DIAGRAMS, INCLUDING THE SPECIFIED SPARE INPUTS AND OUTPUTS.

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SEAL

LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

Original drawing is 30 x 42. Do not scale contents of this drawing.

REVISIONS
CONTRACTOR TO VERIFY DRAWINGS IN FIELD USE REFLECT LAST REVISION DATE.

NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
AUDIO VISUAL SYSTEMS SCHEDULES AND NOTES

SHEET NUMBER
TA001

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AUDIO AND VIDEO SYSTEM EQUIPMENT LIST

THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE ELECTRONIC SYSTEMS INSTALLATION. WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE, FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

SYMBOL	DESCRIPTION	QUANTITY	BASIS OF DESIGN
CS	CONTROL SYSTEM CENTRAL PROCESSOR W/ EXPANSION CARD SLOTS, AND RMK	OFP	CRESTRON PRO3 CRESTRON AV3/CAGE3
	CONTROL SYSTEM CARD, SERIAL COMMUNICATION, IR, RELAY, VOLUME & I/O SENSING CONTROL CARD	A/R	CRESTRON C3COM-3
		A/R	CRESTRON C3IR-8
		A/R	CRESTRON C3RU-16
		A/R	CRESTRON C2VEQ-4
		A/R	CRESTRON C3IO-16
NS	NETWORK SWITCH, POE, 24 PORTS OR 48 PORTS, AS NEEDED	A/R	UBIQUITI ES-24-250W/UBIQUITI ES-48-250W
TP	TOUCH PANEL, APPROXIMATELY 7" ACTIVE MATRIX COLOR LCD, WALL MOUNTED, WIRED, 1024x600, ARCHITECT TO SELECT COLOR	OFP	CRESTRON TSW-760-B-S
TPS	TOUCH PANEL, APPROXIMATELY 10" ACTIVE MATRIX COLOR LCD, DESK STAND, WIRED, 1280 X 800, ARCHITECT TO SELECT COLOR	OFP	CRESTRON TSW-1060-B-S/TSW-1060-TTK-X-S
IPAD	IPAD	0	OWNER FURNISHED
	CRESTRON CONTROL SOFTWARE FOR OWNER-FURNISHED IPAD	OFP	CRESTRON APP
DMS	DIGITAL MATRIX SWITCHER, CARD FRAME, 32X32	OFP	CRESTRON DM-MD32X32-CPU3
	DIGITAL MATRIX SWITCHER HDBASET INPUT CARD	OFP	CRESTRON DMC-4K-C-HDCP2
	DIGITAL MATRIX SWITCHER HDBASET OUTPUT CARD	OFP	CRESTRON DMC-4K-CO-HD-HDCP2
	DIGITAL MATRIX SWITCHER HDMI INPUT CARD	OFP	CRESTRON DMC-HD-HDCP2
	DIGITAL MATRIX SWITCHER 4K SCALING HDMI OUTPUT CARD	OFP	CRESTRON DM-4K-HDO
HTX	DUAL HDMI TWISTED PAIR TRANSMITTER, FURNITURE MOUNT	OFP	CRESTRON DM-TX-4K-202-C
HRX	TWISTED PAIR VIDEO RECEIVER, HDMI OUT, AND MOUNTING HARDWARE	OFP	CRESTRON DM-RMC-4K-SCALER-C
PR	POWER/CURRENT SENSOR	A/R	CRESTRON STI-CS
	POWER RELAY	A/R	CRESTRON STI-PC
	VIDEO SIGNAL SENSOR	A/R	CRESTRON ST-VS
	RS-485 TO 232 CONVERTER	A/R	BLACK BOX IC 108A
DSP	DIGITAL SIGNAL PROCESSOR, CARD FRAME	OFP	BIAMP TESIRA SERVER I/O
	MODULAR ANALOG INPUT CARD	OFP	BIAMP SIC-4
	MODULAR ANALOG OUPUT CARD	OFP	BIAMP SOC-4
MIC	DESK MICROPHONE, 18" GOOSENECK, W/MOVABLE BASE W/LED INDICATOR, PROGRAMMABLE SWITCH, & CORD CARDIOID ELEMENT	OFP	SHURE MX418/C
MIC2	DESK MICROPHONE, 18" GOOSENECK, W/MOVABLE BASE W/LED INDICATOR, VOTING BUTTONS & CORD CARDIOID ELEMENT, CHAIRMAN STATION	1	TELEVIC T-CV
MIC3	DESK MICROPHONE, 18" GOOSENECK, W/MOVABLE BASE W/LED INDICATOR, VOTING BUTTONS & CORD CARDIOID ELEMENT, DELEGATE STATION	5	TELEVIC T-DV
MP	MICROPHONE PROCESSOR, VOTING	OFP	TELEVIC PLIXUS AE-R W/ VOTING SOFTWARE
M	CEILING MICROPHONE ARRAY, CAPABLE OF 6 BEAMS , MIN.	OFP	SHURE MXA910 W/ FYREWRAP
LM	LINE LEVEL MIXER, BALANCED	A/R	RADIO DESIGN LABS ST-MX3 EXTRON MIX 301
ADA	AUDIO DISTRIBUTION AMPLIFIER WITH POWER SUPPLY	A/R	RADIO DESIGN LABS RU-BDA3 EXTRON MDA 3A/KRAMER VM-3A
	POWER AMPLIFIER, EIGHT CHANNEL, 300W PER CHANNEL, 70.7V	OFP	CROWN DCi 8I300N
	VIDEO CAMERA, HD, 30X ZOOM W/ ETHERNET AND SDI OUTPUTS, PTZ, OWNER TO SELECT CAMERA COLOR WITH WALL MOUNT BRACKET	OFCI	AXIS V5915
SC	HIGH CEILING SPEAKER ASSEMBLY: 8" SPEAKER, 70V TRANSFORMER, AND GRILLE	OFP	JBL CONTROL 47HC
S	SPEAKER ASSEMBLY 8" SPEAKER, 70V TRANSFORMER, AND GRILLE	OFP	JBL CONTROL 47C/T
RSP	DUAL RECORDING AND STREAMING MEDIA PROCESSOR W/ 400 GB SSD	OFP	EXTRON SMP 352
WP	WINDOW PROCESSOR, HDCP COMPLIANT, 4-WINDOW, DIGITAL	OFP	EXTRON MGP 464 PRO DI
	J-HOOKS, SEE DETAIL E2/TA502	A/R	CADDY HILTI
UPS	UNINTERRUPTIBLE POWER SUPPLY, RACK-MOUNT	OFP	APC SMTL1500RM3UC
WVS	WIRELESS VIDEO SYSTEM	OFP	CRESTRON AM-300
DP	DIGITAL SIGNAGE PLAYER, SMALL FORM FACTOR	OFI	

A/R = AS REQUIRED OFP = OBTAIN FROM PLANS RMK = RACK MOUNT KIT

AUDIO AND VIDEO SYSTEM EQUIPMENT LIST (CON'T)

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SYMBOL	DESCRIPTION	QUANTITY	BASIS OF DESIGN
	BRAIDED, EXPANDABLE SLEEVING, BLACK	A/R	PANDUIT TECHFLEX
WR	WIRELESS MICROPHONE SYSTEM, UHF, TRANSMITTER, HAND HELD	OFP	SHURE ULXD2/ SM58
	RECEIVER, 2-CHANNEL W/ RMK	OFP	SHURE ULXD4D
	ANTENNA DISTRIBUTION SYSTEM	OFP	SHURE UA844
	REMOTE ANTENNAS, CABLE & MOUNTS	OFP	SHURE MISC
	WIRELESS TRANSMITTER CHARGER, DUAL-DOCK	A/R	SHURE SBC200
EP	ASSISTED LISTENING SYSTEM, INFRARED W/ RECEIVERS AND ALL ACCESSORIES	OFP	LISTEN LT84 W/ BRACKET
	EAR SPEAKER W/ SMART LANYARD	6	LISTEN LR-4200-IR/LA-401/LA-430
	CHARGING BASE, 8-PORT	A/R	LISTEN LA-350
CP7 CP8 CP9	CONNECTION PANELS #7, #8 #9 CABLE CUBBY W/ CABLES, AND POWER MODULE	OFP	EXTRON CABLE CUBBY 1202 W/ SERIES/2 CABLE CUBBY APPROVED CABLES, AND POWER MODULE, SEE DETAIL
CP#	CONNECTION PANEL # , 2 GANG	OFP	CUSTOM, SEE DETAIL
CP#	CONNECTION PANEL # , 4 GANG	OFP	CUSTOM, SEE DETAIL
CP#	CONNECTION PANEL # , RACK MOUNT	OFP	CUSTOM, SEE DETAIL
PS POE	POWER SUPPLIES AND POE INJECTORS	A/R	VARIOUS
	ADAPTOR CABLE	A/R	VARIOUS
	PATCH CORDS	A/R	VARIOUS
	UMBILICAL CORD, CUSTOM, SEE DETAIL	OFP	CUSTOM, SEE DETAIL
	CUSTOM RACK MOUNT KIT, NOTE 10	A/R	MIDDLE ATLANTIC PRODUCTS RSH SERIES OR APPROVED EQUIVALENT, NOTE 29
M55	LED 55" DISPLAY, 16:9 ASPECT RATIO, UHD RESOLUTION, W/ ATSC TUNER AND TILTING MONITOR MOUNT & MATING PLATE	OFP	NEC E557Q
		OFP	CHIEF LTM SERIES
M86	LED 86" DISPLAY, 16:9 ASPECT RATIO, UHD RESOLUTION, W/ ATSC TUNER AND TILTING MONITOR MOUNT & MATING PLATE	OFP	NEC C861Q
		OFP	CHIEF LTM SERIES
MON	LED DISPLAY LOCATION, FOR FUTURE MONITOR	OFI	
FP	MONITOR, LED 21.5", 1920 X 1080	OFP	NEC E221-BK
		OFP	ERGOMART SL102
K#	RELAY, DPDT RATED FOR SPEAKER LEVEL, W/SOCKET	A/R	
PS	POWER SUPPLY, 24 VDC, .75 AMP	A/R	ATLAS SOUND PS24-075 SOLA SCP30524-DN
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR W/ PLUGSTRIP FOR RACK	A/R	SURGEX SA20 TRIPP LITE ISOBAR 12-20 ULTRA
	TRANSIENT VOLTAGE SURGE SUPPRESSOR ISA, FOR PROJECTORS AND MONITORS, NOTE 18	A/R	TRIPP LITE ISOBAR 6 ULTRA / 4 ULTRA
	TRANSIENT VOLTAGE SURGE SUPPRESSOR, FURNITURE MOUNT	A/R	TRIPP LITE ISOBAR 8 ULTRA
	PROJECTOR, 1920 X 1200, 8000 LUMEN, LASER, WITH LENS REQUIRED FOR THROW DISTANCE	OFP	EPSON PRO L1300UNL
	PROJECTOR CEILING MOUNT KIT, PROVIDE PIPE, COUPLERS, STEEL, ADAPTORS, UNISTRUT, THREADED ROD, FASTENERS, ANCHORS, AND ANY OTHER REQUIRED COMPONENTS TO SPAN STRUCTURE, AIR DUCTS, EXTEND/REDUCE SUPPORT SYSTEM FOR APPROPRIATE ELEVATION AS NEEDED FOR INSTALLATION OF THE SPECIFIED DEVICE. SECURE PROJECTORS TO MOUNTS UTILIZING SECURITY SCREWS.	OFP	CHIEF RPA SERIES PREMIER FTP SERIES
UD	PROJECTION SCREEN, ELECTRIC ROLL-UP, 16:9 W/ LOW VOLTAGE INTERFACE, CONTROL SWITCH, BLACK DROP, TENSION CABLES AND DA MATT PROJECTION SURFACE. REFER TO DISPLAY DEVICE SCHEDULE FOR REQUIRED IMAGE SIZES	OFP	DALITE TENSIONED ADVANTAGE DELUXE ELECTROL
	AUDIO AND VIDEO SYSTEM CABLE	A/R	SEE CABLE SCHEDULE
	EQUIPMENT RACK, FLOOR STANDING, ENCLOSED W/ FRONT AND REAR RACK RAILS, FRONT AND REAR DOOR, 4" CABLE CHASE, SIDE PANELS, TOP PANEL AND SEISMIC BRACKET	OFP	MIDDLE ATLANTIC WRK-44-32/WRK-RR44/ VFD-44/CC-44-312/SPN-44-312/MW-LW/WRK-Z4

A/R = AS REQUIRED OFP = OBTAIN FROM PLANS RMK = RACK MOUNT KIT

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LICENSED PROFESSIONAL ENGINEER
No. 10221159-2202
Matthew John Haverkamp
STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

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REVISIONS
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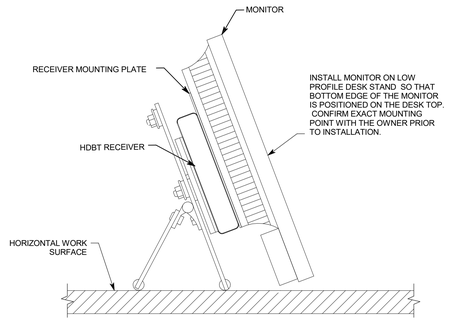
NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1
2	06-28-2019	ADDENDUM 2

ISSUE
CONFORMANCE SET
28 AUGUST 2019

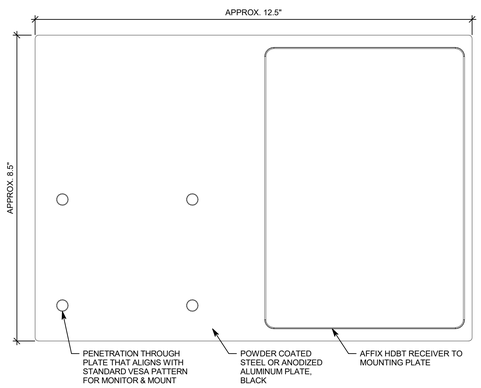
SHEET NAME
AUDIO VISUAL SYSTEMS EQUIPMENT LIST

SHEET NUMBER
TA002

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SIDE VIEW

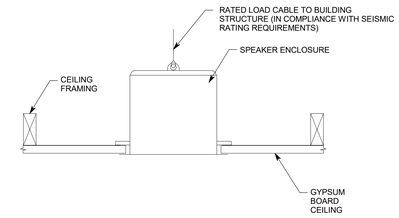


PLATE

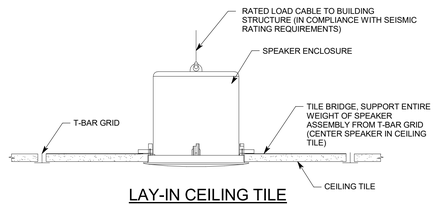
E2 CONCEPTUAL RECEIVER MOUNTING PLATE DETAIL

NO SCALE

FP



GYPSUM BOARD CEILING

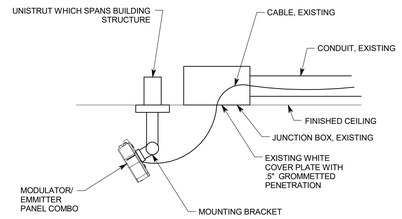


LAY-IN CEILING TILE

D4 CEILING SPEAKER INSTALLATION DETAIL

NO SCALE

S S C



E4 MODULATOR/EMITTER PANEL INSTALLATION DETAIL

NO SCALE

MEP

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STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

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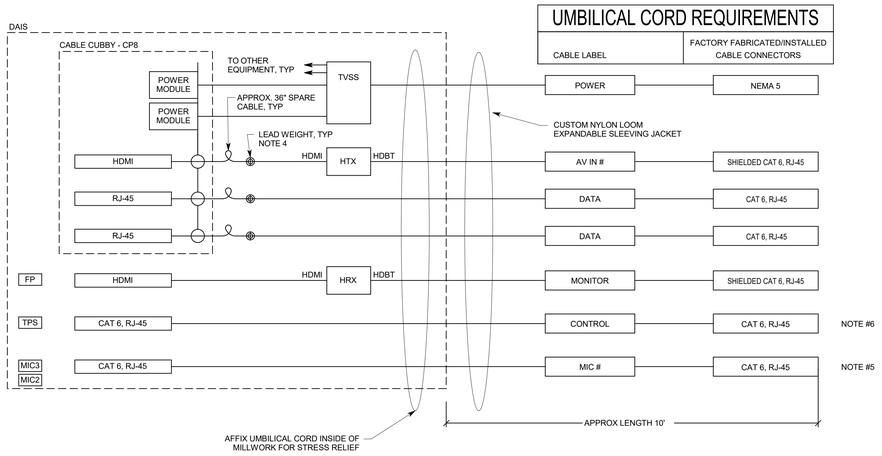
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CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
AUDIO-VIDEO SYSTEMS DETAILS

SHEET NUMBER
TA501

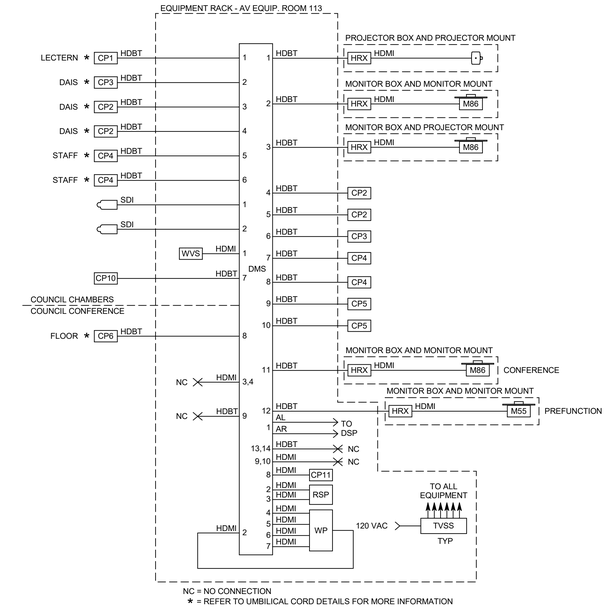
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NOTES:
1. PROVIDE UMBILICAL CORDS WITH FACTORY INSTALLED CONNECTORS. DO NOT FABRICATE CONNECTORS ON SITE OR AT SHOP.
2. CONFIRM THE OWNER'S DESIRED UMBILICAL CORD LENGTH PRIOR TO FABRICATION.
3. MOUNT TRANSMITTERS, RECEIVERS, DA'S AND INTERFACES TO UNDERSIDE OF TABLE.
4. AFFIX LEAD WEIGHT TO CABLE WITH NYLON WIRE TIE. PURPOSE IS TO ASSIST IN PULLING CABLE BACK INTO CUBBY.
5. PROVIDE MICROPHONES AS FOLLOWS: (1) MIC3 AT CENTER COUNCIL POSITION ON DAIS, (5) MIC2 FOR REST OF COUNCIL POSITIONS ON DAIS, DAISY CHAIN ALL (6) MICS, STARTING AT MIC3.
6. TOUCH PANEL 'TPS' ONLY AT CENTER COUNCIL (MAYOR) POSITION.

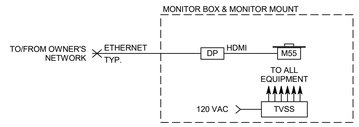
B1 DAIS/UMBILICAL CORD/SINGLE LINE DIAGRAM

NO SCALE (TYPICAL OF COUNCIL CHAMBERS 108A, COUNCIL DAIS 108B)



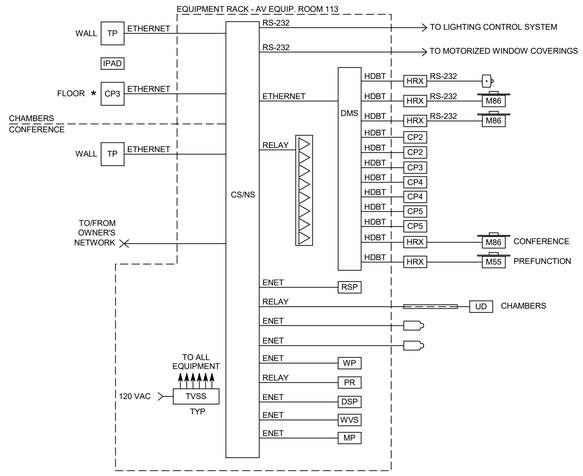
B4 VIDEO SYSTEM SINGLE LINE RISER DIAGRAM

NO SCALE - PREFUNCTION 104, COUNCIL CHAMBERS 108A & COUNCIL CONFERENCE 114



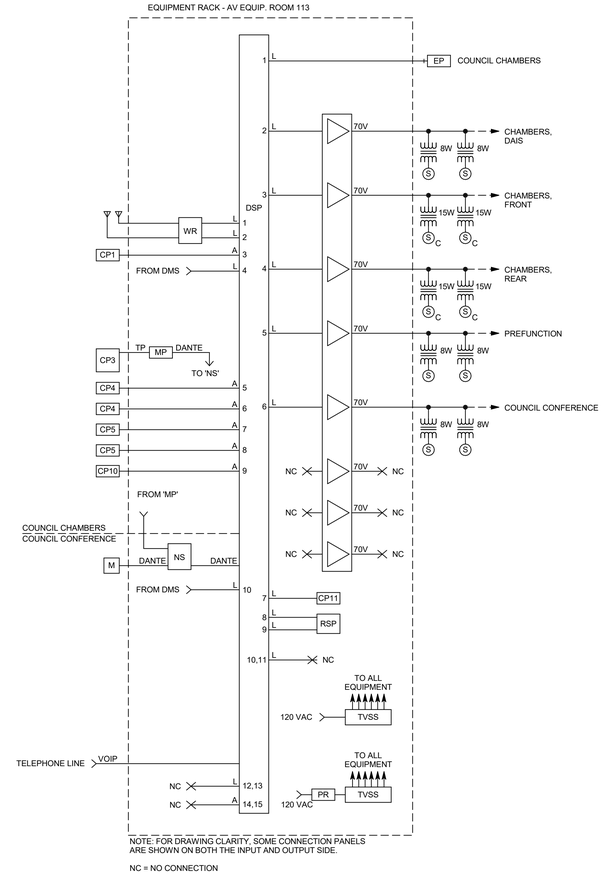
C2 VIDEO SINGLE LINE DIAGRAM - DIGITAL SIGNAGE

NO SCALE



E2 CONTROL SYSTEM SINGLE LINE DIAGRAM

NO SCALE - PREFUNCTION 104, COUNCIL CHAMBERS 108A & COUNCIL CONFERENCE 114



E4 AUDIO SYSTEM SINGLE LINE RISER DIAGRAM

NO SCALE - PREFUNCTION 104, COUNCIL CHAMBERS 108A & COUNCIL CONFERENCE 114

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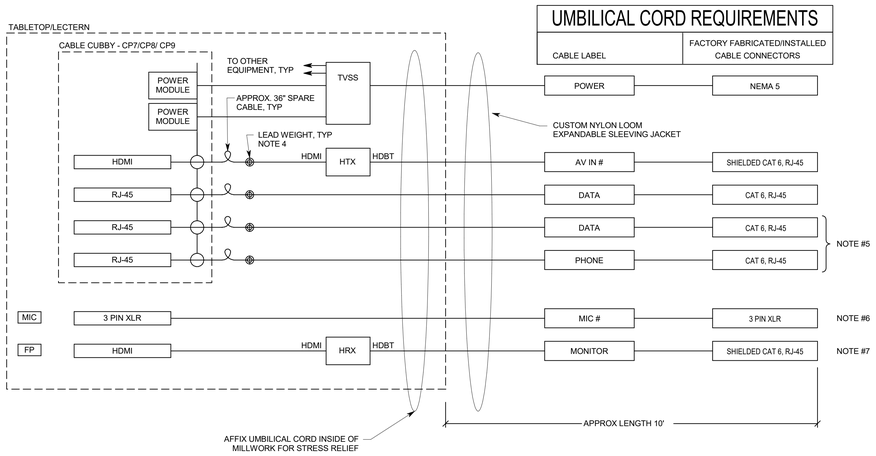
NO.	DATE	DESCRIPTION
1	06-25-2019	ADDENDUM 1

ISSUE
CONFORMANCE SET
28 AUGUST 2019

SHEET NAME
AUDIO VISUAL SYSTEMS DIAGRAMS

SHEET NUMBER
TA601

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NOTES:
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2. CONFIRM THE OWNER'S DESIRED UMBILICAL CORD LENGTH PRIOR TO FABRICATION.
3. MOUNT TRANSMITTERS, RECEIVERS, DA'S AND INTERFACES TO UNDERSIDE OF TABLE.
4. AFFIX LEAD WEIGHT TO CABLE WITH NYLON WIRE TIE. PURPOSE IS TO ASSIST IN PULLING CABLE BACK INTO CUBBY.
5. DATA CABLE FOR PHONE ONLY NEEDED AT CONFERENCE. ONLY 1 DATA NEEDED AT LECTERN.
6. 'MIC' NOT NEEDED AT CONFERENCE.
7. 'FP' ONLY NEEDED AT EACH STAFF LOCATION.

E3 CONFERENCE/STAFF/LECTERN UMBILICAL CORD/SINGLE LINE DIAGRAM

NO SCALE (TYPICAL OF COUNCIL CHAMBERS 108A, COUNCIL DAIS 108B, COUNCIL CONFERENCE 114)

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STATE OF UTAH
6/14/2019

MHTN PROJECT NO. PROJ #2018576

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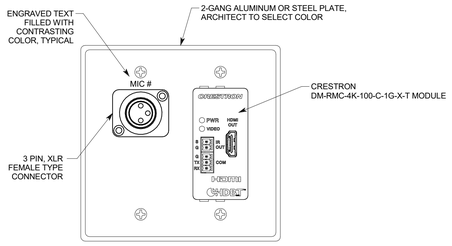
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1	06-25-2019	ADDENDUM 1

ISSUE
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28 AUGUST 2019

SHEET NAME
AUDIO VISUAL SYSTEMS DIAGRAMS

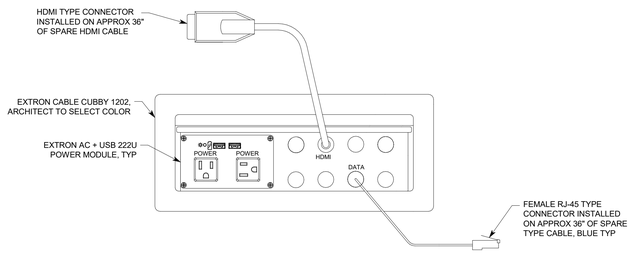
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TA602



A2 CONNECTION PANEL #10 DETAIL

NO SCALE

CP10

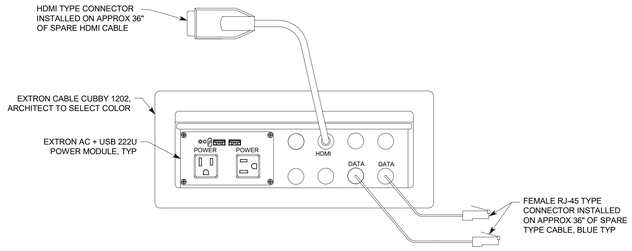


B2 CONNECTION PANEL #9 DETAIL

NO SCALE

CP9

(MOUNTED IN LECTERN)

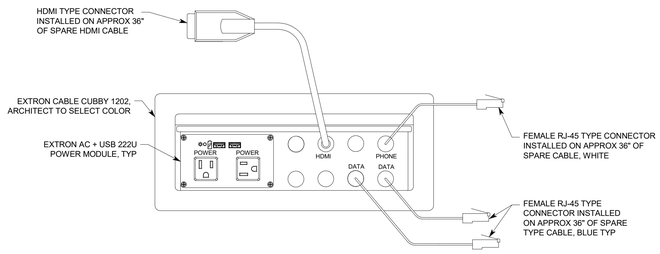


C2 CONNECTION PANEL #8 DETAIL

NO SCALE

CP8

(MOUNTED IN TABLETOP)

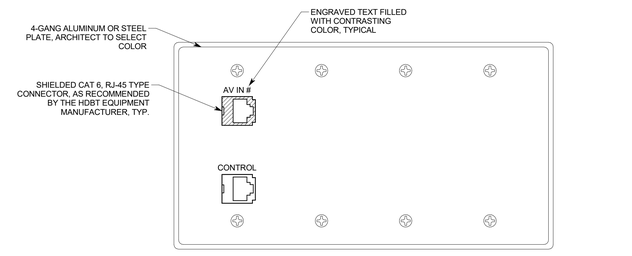


D2 CONNECTION PANEL #7 DETAIL

NO SCALE

CP7

(MOUNTED IN TABLETOP)

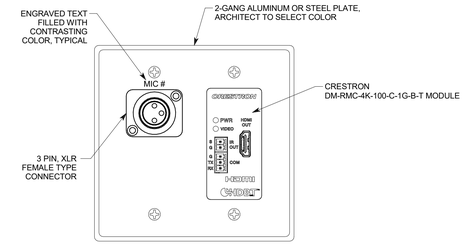


E2 CONNECTION PANEL #6 DETAIL

NO SCALE

CP6

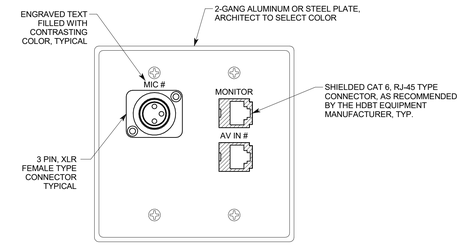
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A4 CONNECTION PANEL #5 DETAIL

NO SCALE

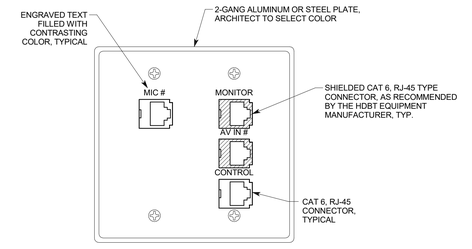
CP5



B4 CONNECTION PANEL #4 DETAIL

NO SCALE

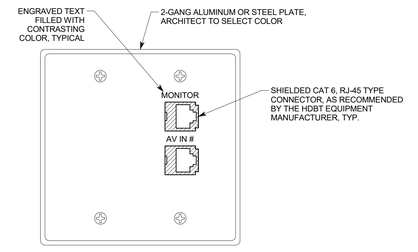
CP4



C4 CONNECTION PANEL #3 DETAIL

NO SCALE

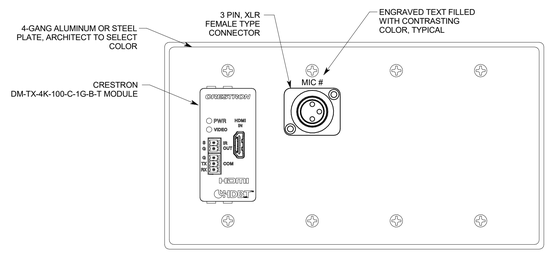
CP3



D4 CONNECTION PANEL #2 DETAIL

NO SCALE

CP2



E4 CONNECTION PANEL #1 DETAIL

NO SCALE

CP1

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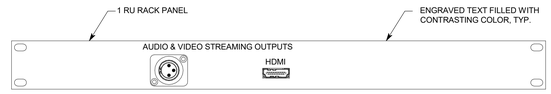
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SHEET NAME
AUDIO VISUAL SYSTEMS CONNECTION PANEL DETAILS

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E4 CONNECTION PANEL #11 DETAIL CP11 (AV RACK)
NO SCALE

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