USU Salt Lake East Entrance Remodel

CONSTRUCTION DOCUMENTS - 05.16.2022



VICINITY MAP

north

method studio

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salt lake city, utah 84101
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UtahState University

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
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revisions :

title:

Cover Sheet

sheet:

GI001

CONSTRUCTION DOCUMENTS

ABBREVIATION SCHEDULE

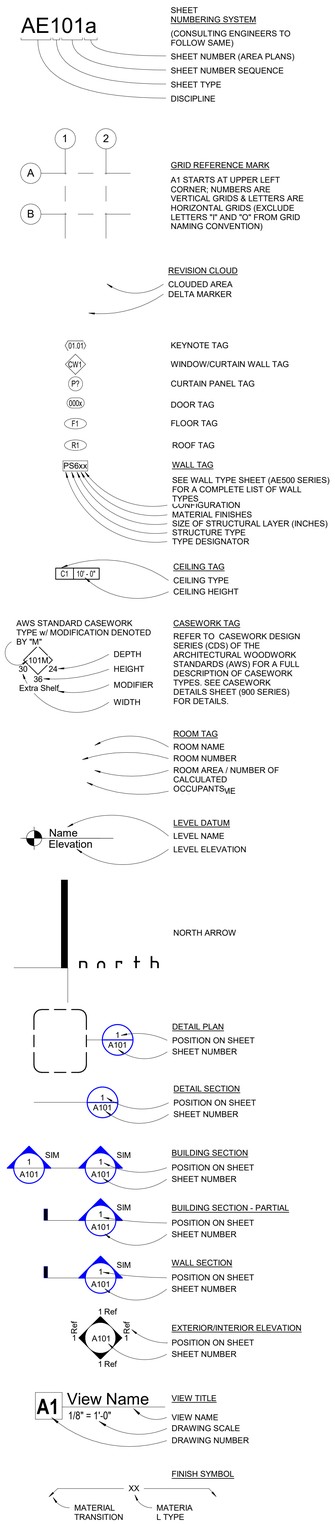
Abbrev.	Description
0	
#	NUMBER OR POUND
&	AND
2:1 SL	2 HORIZONTAL TO 1 VERTICAL SLOPE
@	AT
[	CHANNEL
±	PLUS MINUS
≤	LESS THAN OR EQUAL TO
≥	GREATER THAN OR EQUAL TO
A	
AB	ANCHOR BOLT
AC	APSHALTIC CONCRETE
ACST	ACOUSTIC
AD	AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AL	ALUMINUM
ALT	ALTERNATE
ARCH	ARCHITECTURAL, ARCHITECT, ARCHITECTURE
ASPH	ASPHALT
B	
B	BASELINE
B	BOTTOM
BEJ	BRICK EXPANSION JOINT
BLDG	BUILDING
BLK	BLOCK
BM	BEAM
BO	BOARD
BRG	BEARING
BSMT	BASEMENT
C	
C&G	CURB & GUTTER
CAP	CAPACITY
CEM	CEMENT
CG	CORNER GUARD
CIP	CAST IN PLACE, CAST IRON PIPE
CIR	CIRCULATING
CJ	CONTROL JOINT
CL	CENTERLINE
CL	CENTERLINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNITS
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS
CPT	CARPET
CSK	COUNTERSUNK
CT	CERAMIC TILE
CTR	CENTER
D	
D	DEPTH
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
E	
E	EAST
E/P	EDGE OF PAVEMENT
EA	EACH
EL	ELEVATION
ELECT	ELECTRICAL
ELEV	ELEVATOR
EMER	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPANSION
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
F	
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FFE	FINISHED FLOOR ELEVATION
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH
FLR	FLOOR
FR	FRAME
FTG	FOOTING
FXTR	FIXTURE
G	
G	GROUND
GA	GA
GALV	GALVANIZED
GL	GLASS
GR	GRADE
GRD	GROUND
GWB	GYPSUM WALL BOARD
H	
HB	HOSE BIBB
HC	HANDICAPPED
HDW	HARDWARE
HGT	HEIGHT
HORZ	HORIZONTAL
HR	HOUR
HW	HOT WATER
I	
ID	INSIDE DIAMETER

ABBREVIATION SCHEDULE

Abbrev.	Description
IE	INVERT ELEVATION
INSUL	INSULATION
INT	INTERIOR
INTX	INTERSECTION
INV	INVERT
J	
JB	JUNCTION BOX
JCT	JUNCTION
JST	JOIST
JT	JOINT
L	
L	ANGLE
L	LENGTH
LC	LENGTH OF CURVE
LDC	LEAD COVERED
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LT	LIGHT
M	
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MECH	MECHANICAL
MET	METAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTD	MOUNTED
MTG	MOUNTING
MULL	MULLION
MWP	MEMBRANE WATERPROOFING
N	
N	NORTH
NA	NOT APPLICABLE
NE	NORTHEAST
NEC	NATIONAL ELECTRIC CODE
NEUT	NEUTRAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
NW	NIORTHWEST
O	
OA	OUTSIDE AIR
OA	OUTSIDE AIR
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OPP	OPPOSITE
OVHD	OVERHEAD
P	
PI	POINT IF INTERSECTION
PL	PLATE
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
PRELIM	PRELIMINARY
PRESS	PRESSURE
PRIM	PRIMARY
PRTN	PARTITION
PT	POINT, POINT OF TANGENT
Q	
QT	QUARRY TILE
R	
R	RADIUS
RA	RETURN AIR
RB	RESILIENT VINYL BASE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
RECP	RECEPTACLE
REINF	REINFORCEMENT
REQD	REQUIRED
REV	REVISION
RF	ROOF
RFLCP	REFLECTIVE CEILING PLAN
RM	ROOM
RVT	RESILIENT VINYL TILE
S	
S	SOUTH
SCH	SCHEDULE
SD	STORM DRAIN
SE	SOUTHEAST
SECT	SECTION
SHT	SHEET
SIM	SIMILIAR
SL	SLOPE
SPEC	SPECIFICATION
SQ	SQUARE
STL	STEEL
SUSP	SUSPENDED
T	
T	TOP
T&B	TOP AND BOTTOM
TEL	TELEPHONE
TEMP	TEMPORARY
TERM	TERMINAL
THK	THICK/THICKNESS
THRSLD	THRESHOLD
TO	TOP OF
TOS	TOP OF STEEL, TOP OF SLAB
TOW	TOP OF WALL
TYP	TYPICAL
U	
U.N.O	UNLESS NOTED OTHERWISE
V	
VCT	VINYL COMPOSITION TILE
VENT	VENTILIATING
VERT	VERTICAL
VEST	VESTIBULE
VWC	VINYL WALL COVERING
W	
W	WIDTH, WEST
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WIDTH
WT	WEIGHT
WWF	WELDED WIRE FABRIC
X	
X	TRANSFORMER

ARCHITECTURAL SYMBOLS

(SEE RESPECTIVE DISCIPLINES FOR SYMBOLS)



MATERIAL LEGEND

02 SITE CONSTRUCTION
- EARTH (existing)
- EARTH (backfill)
- DRAINAGE FILL COMPACTED FILL

03 CONCRETE
- CONCRETE - CAST-IN-PLACE
- CONCRETE - PRECAST

04 MASONRY
- BRICK
- CONCRETE MASONRY UNITS
- GROUT

05 METALS
- STEEL
- ALUMINUM

06 WOODS AND PLASTICS
- CONTINUOUS WOOD
- INTERMITTENT WOOD/BLOCKING
- SHEATHING
- FINISH WOOD
- PARTICLE BOARD

07 THERMAL & MOISTURE PROTECTION
- BATT INSULATION
- LOOSE FILL INSULATION
- RIGID INSULATION
- FIRE SPRAY

09 FINISHES
- GYPSUM BOARD

MISCELLANEOUS GENERAL NOTES

1. THE PROJECT MANUAL, UNDER SEPARATE COVER, IS AN INTEGRAL PART OF THESE CONSTRUCTION DRAWINGS.
2. PLANS, SECTIONS, ELEVATIONS, DETAILS AND DIMENSIONS LABELED "TYPICAL" SHALL APPLY TO ALL SITUATION OCCURRING THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY KEYED ON THE DRAWINGS.
3. ALL WORK, MATERIALS, AND METHODS SHALL BE IN CONFORMANCE WITH THE CODES, ORDINANCES AND REGULATIONS OF ALL GOVERNMENTAL AGENCIES HAVING JURISDICTION AT THE PROJECT LOCATION.
4. UNLESS OTHERWISE INDICATED IN THE CONSTRUCTION DOCUMENTS AS BEING NOT IN CONTRACT (N.I.C.) OR EXISTING, ALL ITEMS, MATERIALS AND INSTALLATION OF SAME ARE PART OF THE CONTRACT AS DEFINED BY THE CONSTRUCTION DOCUMENTS. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL ACCESSORIES, COMPONENTS AND ASSEMBLIES REQUIRED FOR THE WORK DEPICTED OR SPECIFIED.
5. CONTRACTORS ARE RESPONSIBLE FOR ALL WORK REGARDLESS OF THE LOCATION OF THE INFORMATION ON THE DOCUMENTS.
6. KEEP SITE CLEAN AND CLEAR OF DEBRIS AND IN ORDERLY CONDITION THAT DOES NOT DETRACT FROM THE SURROUNDING SITE AND REPAIR ANY DAMAGE CAUSED BY WORK OF THE CONTRACT.
7. ALL DIMENSIONS ARE TO THE FACE OF METAL OR WOOD STUD FRAMED WALLS AND TO THE FACE OF CONCRETE AND MASONRY WALLS AS SHOWN, UNLESS NOTED OTHERWISE.
8. INSTALL SEALANT AT EXTERIOR SIDE OF ALL JOINTS, SEAMS, CONNECTIONS OR OPENINGS WHICH WOULD ALLOW WATER OR AIR INFILTRATION EXCEPT AS NOTED OTHERWISE. SEALANT COLOR TO MATCH ADJACENT SURFACE. COLOR REQUIRES ARCHITECTS APPROVAL.
9. DOOR OPENINGS IN FRAME CONSTRUCTION WHICH ARE NOT DIMENSIONED ARE EITHER CENTERED IN THE WALL, FACE OF JAMB OR LOCATED 4" FROM THE FACE OF STUD TO THE FINISHED JAMB.
10. ALL SPECIAL ACCESSIBLE FACILITIES SHALL BE IDENTIFIED WITH APPROVED SIGNAGE.
11. THE CONTRACTOR IS RESPONSIBLE FOR PRODUCING A WEATHER TIGHT BUILDING, DETAILS AND OMISSIONS TO DRAWINGS NOTWITHSTANDING. ALL DRAWING CONFLICTS WHICH MAY NOT ALLOW A WEATHERTIGHT CONDITION SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
12. DISCREPANCIES BETWEEN ACTUAL CONDITIONS AND PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, CONTRACTOR SHALL SUBMIT SPECIFIC DISCREPANCIES FOR ARCHITECT REVIEW.
13. PROVIDE FULL METAL BACKING PLATE (16 GAUGE X 6" HIGH SECURED TO 3 STUDS MIN.) OR WOOD BLOCKING AS REQUIRED TO SECURELY ANCHOR ALL WALL MOUNTED EQUIPMENT (CABINETS, TOILET ROOM ACCESSORIES, HARDWARE, ETC.). BLOCKING SHALL PROVIDE A RIGID CONNECTION CAPABLE OF SUPPORTING DESIGN LOADS. PROVIDE A 16 GAUGE X 6" STL. STUD/TRACK SECURED TO 2 STUDS TO SECURELY SUPPORT ALL WALL STOPS (DOOR BUMPER).
14. COORDINATE WITH ALL TRADES, SIZES AND LOCATIONS OF ALL OPENINGS FOR MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT. EQUIPMENT PADS OR BASES, AS WELL AS ELECTRIC POWER, WATER, AND DRAIN INSTALLATIONS, BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS FOR PROPER PLACEMENT OF ALL TRADES' WORK. ANY CONCERNS, SPACE LIMITATIONS OR STRUCTURAL CONFLICTS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. A REASONABLE RESPONSE TIME SHALL BE ALLOWED AS NOTED IN THE SPECIFICATIONS.
15. ALL FLOOR OR WALL OPENINGS REQUIRED FOR PIPES, DUCTS, CONDUITS,ETC. SHALL BE SEALED IN AN APPROVED MANNER.
16. FIRE SPRINKLER DESIGN TO BE DONE BY A CERTIFIED SUB-CONTRACTOR AND WILL REQUIRE APPROVALS BY THE CITY AND STATE FIRE MARSHAL. APPROVALS BY THE FIRE MARSHAL ARE TO BE OBTAINED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO ARCHITECT. SUBMITTAL TO THE ARCHITECT ALSO INDICATES THAT THE CONTRACTOR HAS REVIEWED AND COORDINATED FIRE-SPRINKLER PIPING LOCATIONS WITH ALL TRADES.
17. ROOMS ENCLOSED WITH RATED WALLS REQUIRE RATED DOORS. ANY DUCTS PASSING THROUGH WALLS REQUIRE FIRE DAMPERS AND OR FIRE/SMOKE DAMPERS. ANY CONDUIT OR PIPING REQUIRES RATED SEALANT AT JOINTS.
18. GENERAL STRUCTURAL NOTES GOVERN TYPICAL CONDITIONS WHETHER OR NOT SPECIFICALLY DETAILED OR NOTED.
19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE AND LOCATE ELECTRICAL, DATA AND PHONE RECEPTACLES, SWITCHES, ETC. TO AVOID CASEWORK, DOORS, ETC.
20. THE DRAWINGS AND SPECIFICATIONS INDICATE THE GENERAL SCOPE OF THE PROJECT IN TERMS OF THE ARCHITECTURAL AND STRUCTURAL DESIGN CONCEPT. THE DIMENSIONS OF THE BUILDING, THE TYPE OF STRUCTURAL, MECHANICAL, ELECTICAL AND UTILITY SYSTEMS AND MAJOR ARCHITECTURAL ELEMENTS OF CONSTRUCTION AS "SCOPE" DOCUMENTS.
21. THE DRAWINGS AND SPECIFICATIONS DO NOT NECESSARILY INDICATE OR DESCRIBE ALL WORK REQUIRED FOR THE FULL PERFORMANCE AND COMPLETION OF THE WORK. CONTRACTS SHALL BE LET ON THE BASIS OF SUCH DOCUMENTS, WITH THE UNDERSTANDING THAT THE CONTRACTOR IS TO FURNISH ALL ITEMS REQUIRED FOR PROPER COMPLETION OF THE WORK WITH OUT ADJUSTMENT TO CONTRACT PRICE. IT IS INTENDED THAT THE WORK TO BE OF SOUND AND QUALITY CONSTRUCTION AND THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE INCLUSION OF ADEQUATE AMOUNTS TO COVER INSTALLATION OF ALL ITEMS INDICATED, DESCRIBED OR REASONABLY IMPLIED.

DRAWING INDEX

GENERAL

GI001	Cover Sheet
GI002	General Information
GI003	ADA Building Blocks
GI004	Signage and Blocking Details
GI101	Code Analysis
GI102	Code Plans

CIVIL DRAWINGS

C001 LEGEND
C101 DEMOLITION PLAN
C102 SITE UTILITY PLAN
C501 STANDARD DETAILS

LANDSCAPE DRAWINGS

L101 SITE LAYOUT AND DEMOLITION PLANS
L102 PLANTING PLANS
L103 IRRIGATION PLANS

ARCHITECTURAL

AS101	SITE PLAN
AS102	USU ALTA SURVEY - FOR REFERENCE ONLY -
AS501	ARCHITECTURAL SITE DETAILS
AD101	OVERALL DEMOLITION PLAN
AD131	Overall Demolition Reflected Ceiling Plan
AD141	Overall Finish Floor Demolition Plan
AE101	Overall Floor Plan
AE131	Overall Reflected Ceiling Plan
AE141	ROOF PLAN
AE401	Entrance Lobby Enlarged Plans
AE402	Enlarged Testing Center Entrance
AE403	Student Lounge
AE404	New South Offices Enlarged Plans
AE405	New South Offices Enlarged Plans
AE421	INTERIOR ELEVATIONS
AE501	PARTITION TYPE
AE521	GENERAL CONSTRUCTION DETAILS
AE531	CEILING DETAILS
AE541	Details
AE601	Door & Window Schedule

AE911 - DETAILS

AF107	FINISH FLOOR PLAN
AF601	FINISH SCHEDULE
AG101	FURNITURE PLAN

MECHANICAL DRAWINGS

MH001	INDEX, GEN NOTES, & ABBREV
MD101	MECHANICAL DEMO FLOOR PLAN
MD102	MECHANICAL DEMO ROOF PLAN
MH101	MECHANICAL REMODEL FLOOR PLAN
MH102	MECHANICAL REMODEL ROOF PLAN
MH601	SCHEDULES AND DETAILS
MH701	MECHANICAL SCHEMATICS
MP101	MECH. PIPING REMODEL FLOOR PLAN
PL101	PLUMBING REMODEL FLOOR PLAN

ELECTRICAL DRAWINGS

EE001	SHEET INDEX, ABBR, AND NOTES
EE501	ELECTRICAL DETAILS
EE502	TYPICAL MOUNTING HEIGHTS
EE503	TYPICAL SIGNAGE & LABELING DETAILS
ES101	SITE ELECTRICAL PLAN
ED101	LEVEL 1 DEMOLITION FLOOR PLAN
ED102	LEVEL 1 DEMOLITION CEILING PLAN
ED103	ROOF DEMOLITION PLAN
EP101	LEVEL 1 POWER PLAN
EP102	ROOF POWER PLAN
EP601	PANEL SCHEDULES
EP602	EQUIPMENT SCHEDULE
EL101	LEVEL 1 LIGHTING PLAN
EL601	LIGHTING FIXTURE SCHEDULE
EL602	LIGHTING CONTROL SCHEDULES
EY101	LEVEL 1 AUXILIARY PLAN
EY601	FIRE ALARM & AUX RISERS

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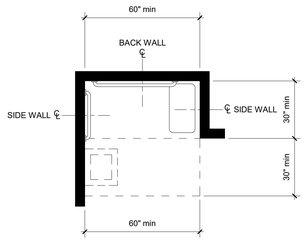
General Information

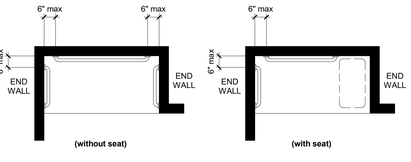
sheet:

GI002

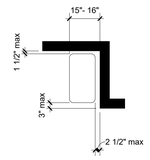
CONSTRUCTION DOCUMENTS



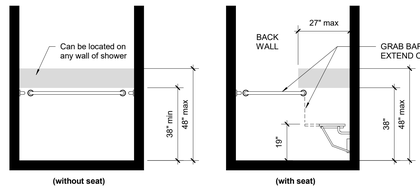
STANDARD ROLL-IN SHOWER COMPARTMENT SIZE AND CLEARANCE



GRAB BAR IN STANDARD ROLL-IN SHOWERS

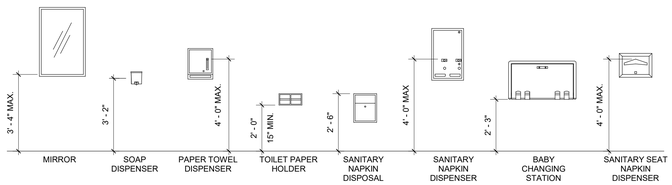


RECTANGULAR SHOWER COMPARTMENT SEAT

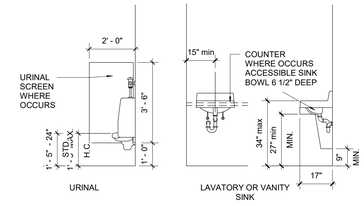


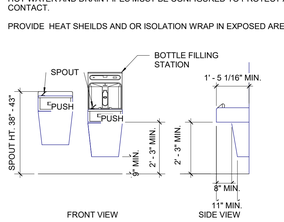
ROLL-IN SHOWER CONTROLS AND HANDSHOWER LOCATION
(shaded area)

E2 ADA Roll-In Shower (ANSI 608)
3/8" = 1'-0"

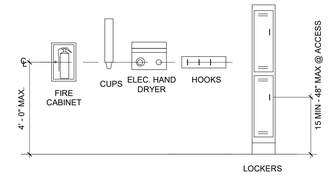


D2 Typical Toilet Accessories Mounting Height
3/8" = 1'-0"





C1 Plumbing Fixtures
3/8" = 1'-0"



C3 Miscellaneous Mounting Heights
3/8" = 1'-0"

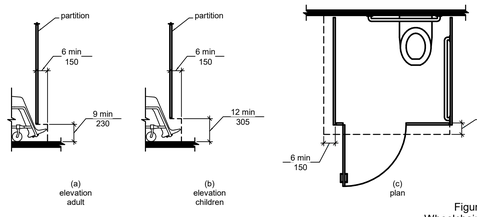
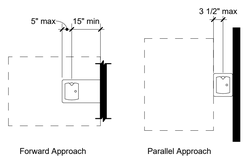


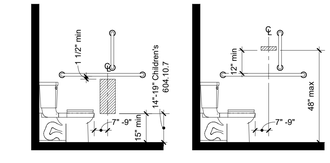
Figure 604.8.1.4
Wheelchair Accessible Toilet Compartment Toe Clearance

C4 Wheelchair Accessible Compartment Toe Clearance (ANSI 604)
3/8" = 1'-0"

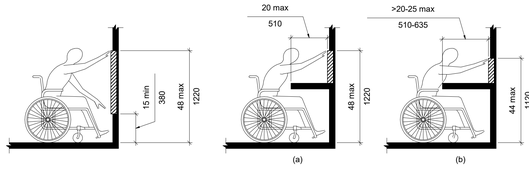


DRINKING FOUNTAIN SPOUT LOCATION

B1 Drinking Fountain (ANSI 602)
3/8" = 1'-0"

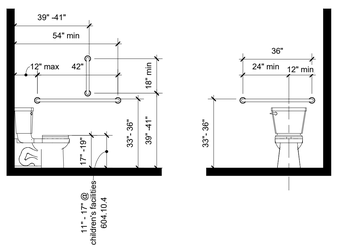


B2 Dispenser Location (ANSI 604)
3/8" = 1'-0"

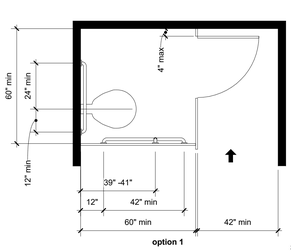


UNOBSTRUCTED FORWARD REACH | OBSTRUCTED FORWARD REACH | UNOBSTRUCTED SIDE REACH | OBSTRUCTED HIGH SIDE REACH

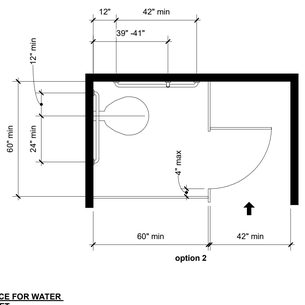
B3 Reach Ranges (ANSI 308)
3/8" = 1'-0"

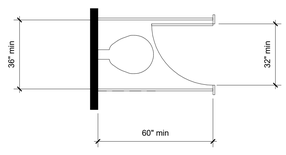


A1 Grab Bar Placement (ANSI 604)
3/8" = 1'-0"



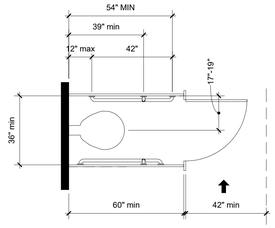
SIZE OF CLEARANCE FOR WATER CLOSET





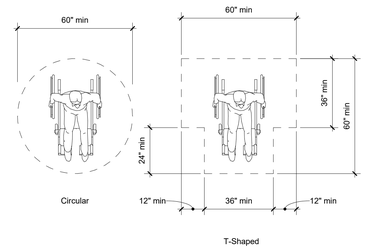
TYPICAL WATER CLOSET

A2 Restroom Stall Layout (ANSI 604)
3/8" = 1'-0"

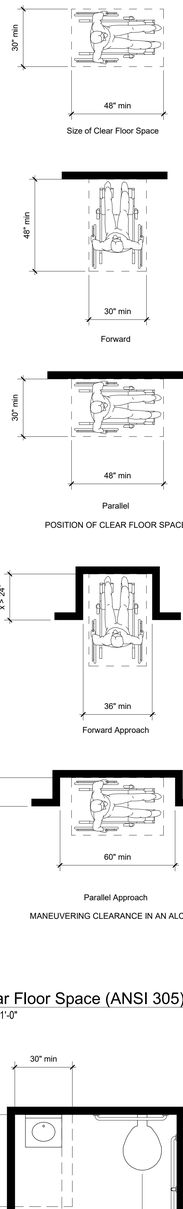


AMBULATORY ACCESSIBLE WATER CLOSET
(1) Req'd when 6 or more stalls are provided

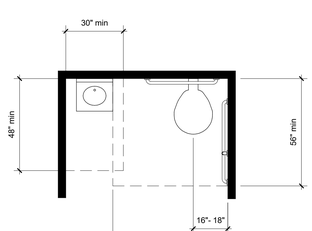
D4 ADA Transfer Shower (ANSI 608)
3/8" = 1'-0"



E6 Turning Space (ANSI 304)
3/8" = 1'-0"



B6 Clear Floor Space (ANSI 305)
3/8" = 1'-0"



SIZE OF CLEARANCE FOR WATER CLOSET

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
revisions :

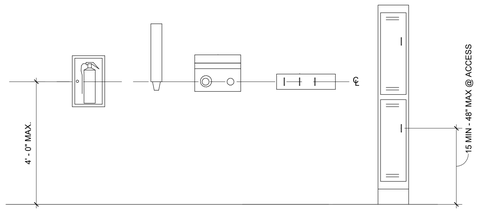
title:

ADA Building Blocks

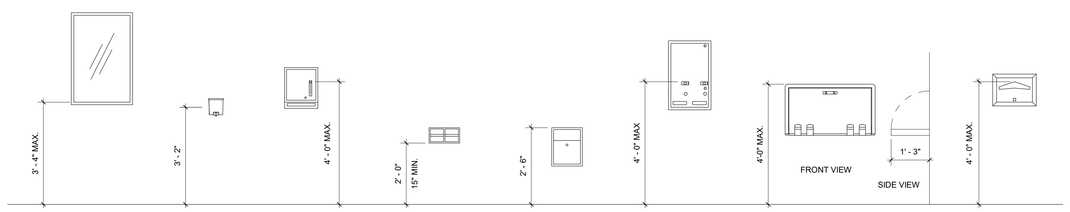
sheet:

GI003

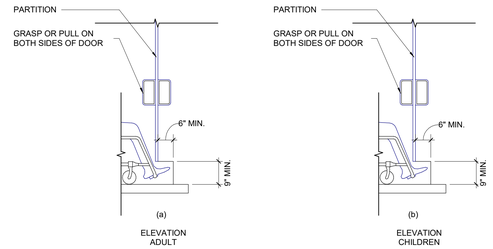
CONSTRUCTION DOCUMENTS



MISC MOUNTING HEIGHTS



TYPICAL TOILET ACCESSORIES MOUNTING HEIGHTS



TOE CLEARANCE

ROOM SIGNAGE AS WELL AS CODE SIGNAGE WILL BE PROVIDED AND INSTALLED BY THE OWNER

SIGNAGE LEGEND

TYPE A.1 — PICTOGRAM (SYMBOL) RAISED 1/32" OFF FACE, TYP. SANDBLASTED, CLEAR ANODIZED ALUMINUM PANEL 3/4" HIGH LETTERING, RAISED 1/32", TYP. GRADE 2 BRAILLE APPLIED TO FACE, TYP. — LOCATE AT ALL EGRESS STAIRS

TYPE A.2 — PICTOGRAMS (SYMBOL) RAISED 1/32" OFF FACE, TYP. SANDBLASTED, CLEAR ANODIZED ALUMINUM PANEL 3/4" HIGH LETTERING, RAISED 1/32", TYP. GRADE 2 BRAILLE APPLIED TO FACE, TYP. — LOCATE AT ALL MEN'S RESTROOMS, MAIN & SECOND LEVEL.

TYPE A.3 — SANDBLASTED, CLEAR ANODIZED ALUMINUM PANEL PICTOGRAM (SYMBOL) RAISED 1/32" OFF FACE, TYP. 3/4" HIGH LETTERING, RAISED 1/32", TYP. GRADE 2 BRAILLE APPLIED TO FACE, TYP. — LOCATE AT ALL WOMEN'S RESTROOMS, MAIN & SECOND LEVEL.

TYPE A.4 — SANDBLASTED, CLEAR ANODIZED ALUMINUM PANEL PICTOGRAM (SYMBOL) RAISED 1/32" OFF FACE, TYP. 3/4" HIGH LETTERING, RAISED 1/32", TYP. GRADE 2 BRAILLE APPLIED TO FACE, TYP. — LOCATE AT ALL FAMILY/ ACCESSIBLE/ UNISEX RESTROOMS, MAIN & SECOND LEVEL

TYPE B — SANDBLASTED, CLEAR ANODIZED ALUMINUM PANEL MOLDED POLYCARBONATE UPDATEABLE PANEL — LOCATE AT ALL OFFICES/STUDIOS

TYPE C — SANDBLASTED, CLEAR ANODIZED ALUMINUM PANEL RAISED LETTERING, RAISED 1/32", TYP. GRADE 2 BRAILLE APPLIED TO FACE, TYP. — LOCATE AT ALL STANDARD, NON-PERFORMANCE VENUE ROOMS

TYPE D — SANDBLASTED, CLEAR ANODIZED ALUMINUM PANEL RAISED LETTERING, RAISED 1/32", TYP. GRADE 2 BRAILLE APPLIED TO FACE, TYP. — LOCATE AT SUITE ENTRIES

TYPE E — 1" RAISED WHITE LETTERS, ON RED BACKGROUND; SANDBLASTED, CLEAR ANODIZED ALUMINUM SIGN W/ 4 EPOXY PIN ANCHORS

FIRE DEPARTMENT CONNECTION
FDC SIGN

LOCATE AT FDC

TYPE F — SANDBLASTED, CLEAR ANODIZED ALUMINUM PANEL

IN CASE OF FIRE
DO NOT USE ELEVATORS

ELEVATOR SIGN
- SETON STYLE NO. 29639 OR EQ.

LOCATE AT ELEVATORS AND LIMITED USE/ LIMITED ACCESS LIFT

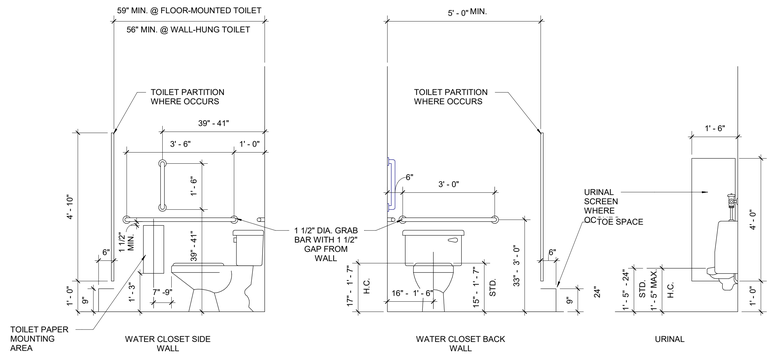
TYPE G — 1'-0" WIDE

MAXIMUM OCCUPANCY NOT TO EXCEED
370 PERSONS

OCCUPANT LOAD SIGN
- SETON STYLE NO. 43355 OR EQ.

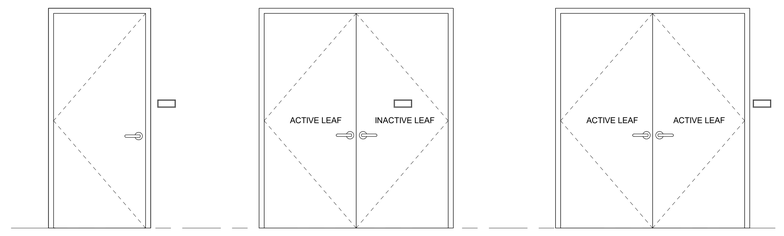
LOCATE AT ALL PERFORMANCE VENUES. RE: PLANS & ELEVATIONS FOR LOCATIONS; SEE MAX OCC. SIGNAGE SCHED.;

SIGNAGE SCHEDULE

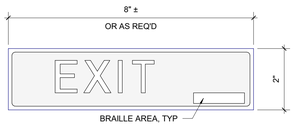


TYPICAL PLUMBING FIXTURES AND ACCESSORIES MOUNTING HEIGHTS

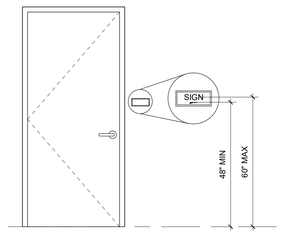
2 Mounting Heights
1/2" = 1'-0"



NOTE:
-COLOR AS SELECTED BY ARCHITECT
-CHARACTER SIZE AND BRAILLE LOCATION PER ANSI A117.1, CH. 7



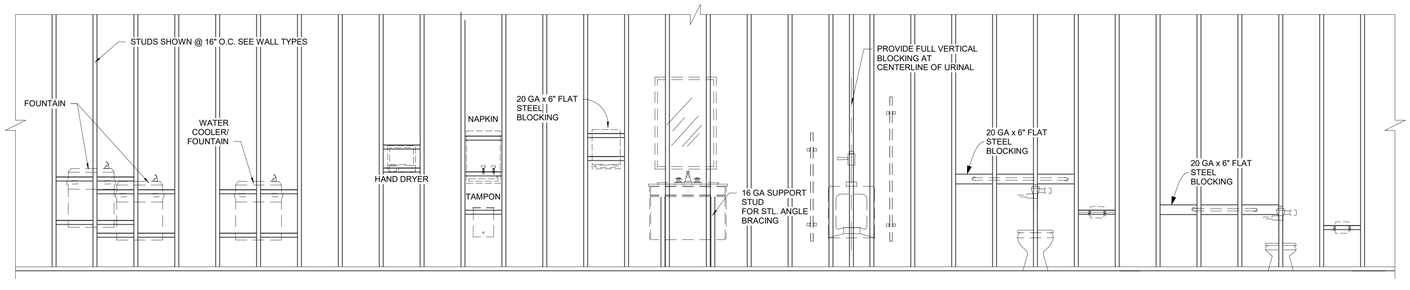
EXIT SIGN



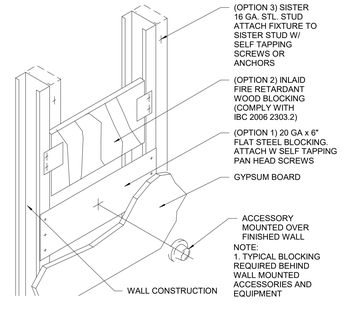
SIGN HEIGHT ABOVE THE FLOOR. TACTILE CHARACTERS SHALL BE 48 INCHES MINIMUM ABOVE THE FLOOR, MEASURED TO THE BASELINE OF THE LOWEST TACTILE CHARACTER AND 60 INCHES MAXIMUM ABOVE THE FLOOR. MEASURED TO THE BASELINE OF THE HIGHEST TACTILE CHARACTER. (ICC/ANSI 703.3.10)

SIGN LOCATION. WHERE A TACTILE SIGN IS PROVIDED AT A DOOR. THE SIGN SHALL BE ALONGSIDE THE DOOR AT THE LATCH SIDE. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF. THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAVES. THE SIGN SHALL BE TO THE RIGHT OF THE RIGHT HAND DOOR. WHERE THERE IS NO WALL SPACE ON THE LATCH SIDE OF A SINGLE DOOR, OR TO THE RIGHT SIDE OF DOUBLE DOORS. SIGNS SHALL BE ON THE NEAREST ADJACENT WALL. SIGNS SHALL BE ON THE NEAREST SHALL BE LOCATED SO THAT A CLEAR FLOOR AREA 18 INCHES MINIMUM BUY 18 INCHES MINIMUM, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF THE ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. (ICC/ANSI 703.311)

SIGNAGE LOCATIONS



TYPICAL BLOCKING DETAILS



1 SIGNAGE
1" = 1'-0"

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
revisions :

title:

Signage and Blocking Details

sheet:

GI004

CONSTRUCTION DOCUMENTS

CODE ANALYSIS

APPLICABLE CODES

	Year		Year
International Building Code	2018	National Electrical Code	2017
International Mechanical Code	2018	Uniform Code for	
International Plumbing Code	2018	Building Conservation	
International Fire Code	2018	ADA Accessibility	
International Energy Conservation Code	2018	Guidelines	2010

A. Occupancy and Group: B (UNCHANGED)

Change in Use: Yes ____ No X Mixed Occupancy: Yes ____ No X

Special Use and Occupancy (e.g. High Rise, Covered Mall): N/A

B. Seismic Design Category: D Design Wind Speed: 120 mph

C. Type of Construction (circle one): (UNCHANGED)

I A | I B | II A | (II B) | III A | III B | IV HT | V A | V B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):

North: 0 South: 0 East: 0 West: 0

E. Separation: (UNCHANGED)

Separated: ____ Non-separated: X Accessory: ____

F: Sprinklers: Fully sprinkled (UNCHANGED)

Required: ____ Provided: YES Type of Sprinkler System: EXISTING

G: Number of Stories: 1 Above Grade Building Height: 15'-6"

H: Actual Area per Floor (square feet):

Level 1 total = 33,600 sf

I: Total Area: 33,600 sf (UNCHANGED)

J: Area Modifications: (Table 504.3 IBC 2015)

Allowable Area = 92,000

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	0		Floors - Ceiling Floors	0	
Interior Bearing Walls	0		Roofs - Ceiling Roofs	0	
Exterior Non-Brg. Walls	0		Exterior Doors & Windows	0	
Structural Frame	0		Shaft Enclosures	0	
Partitions - Permanent	0		Fire Walls	0	
Fire Barriers	0		Fire Partitions	N/A	
			Smoke Partitions	N/A	

L. Design Occupant Load: TOTAL: 499 (UNCHANGED)

The Occupancy type for this building is "B" Business.

The Occupancy load has been determined prescribed 100 sf per occupant defined by the IBC Business Occupancy Group "B". The Exiting requirements (number of exits and exiting width) and Plumbing Fixture requirements, have been provided to accommodate this Occupancy's requirements.

Exit Width Required: SEE GI102 SHEET
Exit Width Provided: SEE GI102 SHEET

M. Minimum Number of Required Plumbing Facilities: **(See Plan for locations)**

Women = 236 Occupants (70%)
Men = 100 Occupants (30%)
Total = 336 Occupants

Water Closets (WC) & Urinals (U)	**Total Req.**	**Total Provided**
(Men) 1/25 (for the first 50) 2 + 1/50 (for the remainder) 2	**= 4**	2 (WC)+3 (U) **= 5**
(Women) 1/25 (for the first 50) 2 + 1/50 (for the remainder) 4	**= 6**	**7 (WC)**

2 Additional WC's Provided in Unisex restrooms (See Plan)

Lavatories	**Total Req.**	**Total Provided**
(Men) 1/40 (for the first 80) 2 + 1/80 (for the remainder) 1	**= 3**	**4**
(Women) 1/40 (for the first 80) 2 + 1/80 (for the remainder) 2	**= 4**	**6**

2 Additional Lavatories Provided in Unisex restrooms (See Plan)

Drinking Fountains: 1/40 (for the first 80) = 2 1/80 (for the remainder) = 4 **= Total 6**

Total Required Fixtures 6
(Including bottle fillers) **Total Provided Fixtures 9**

Service Sinks: 1 Req. 1 Provided

FOOTNOTES:

1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.

2) Additional Code Information shall be provided at the discretion of the Building Official .

3) See Code Plan Sheets for Additional Information.

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project#: 20.0770
date: 05.16.2022
revisions :

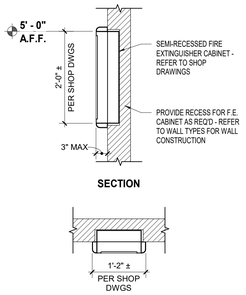
title:

Code Analysis

sheet:

GI101

CONSTRUCTION DOCUMENTS



E1 FIRE EXTINGUISHER DETAIL

3/4" = 1'-0"

GRAPHIC LEGEND

FIRE BARRIER RATING

1 HOUR RATED WALL FIRE BARRIER 4430, SEE SHEET GI006 & WALL TYPES FOR REQUIRED UL LISTING ASSEMBLY

PATH OF EGRESS

COMMON PATH OF EGRESS
ALLOWABLE DISTANCE = 100'-0"
TOTAL USED DISTANCE = 68'-0"
as per 2015 IBC Table 1006.2.1

TRAVEL DISTANCE (TD)
ALLOWABLE EXIT DISTANCE = 250'-0"
TOTAL USED EXIT DISTANCE = 200'-0"
as per 2015 IBC Table 1702.2

POINT AT WHICH A CHOICE OF 2 EXITS BECOMES AVAILABLE

FIRE EXTINGUISHER

FIRE EXTINGUISHER IN SEMI-RECESSED CABINET — FE 1

FIRE EXTINGUISHER IN SEMI-RECESSED CABINET — FE 2

FIRE EXTINGUISHER IN SEMI-RECESSED CABINET — FE 3

FIRE EXTINGUISHER IN SEMI-RECESSED CABINET — FE 4

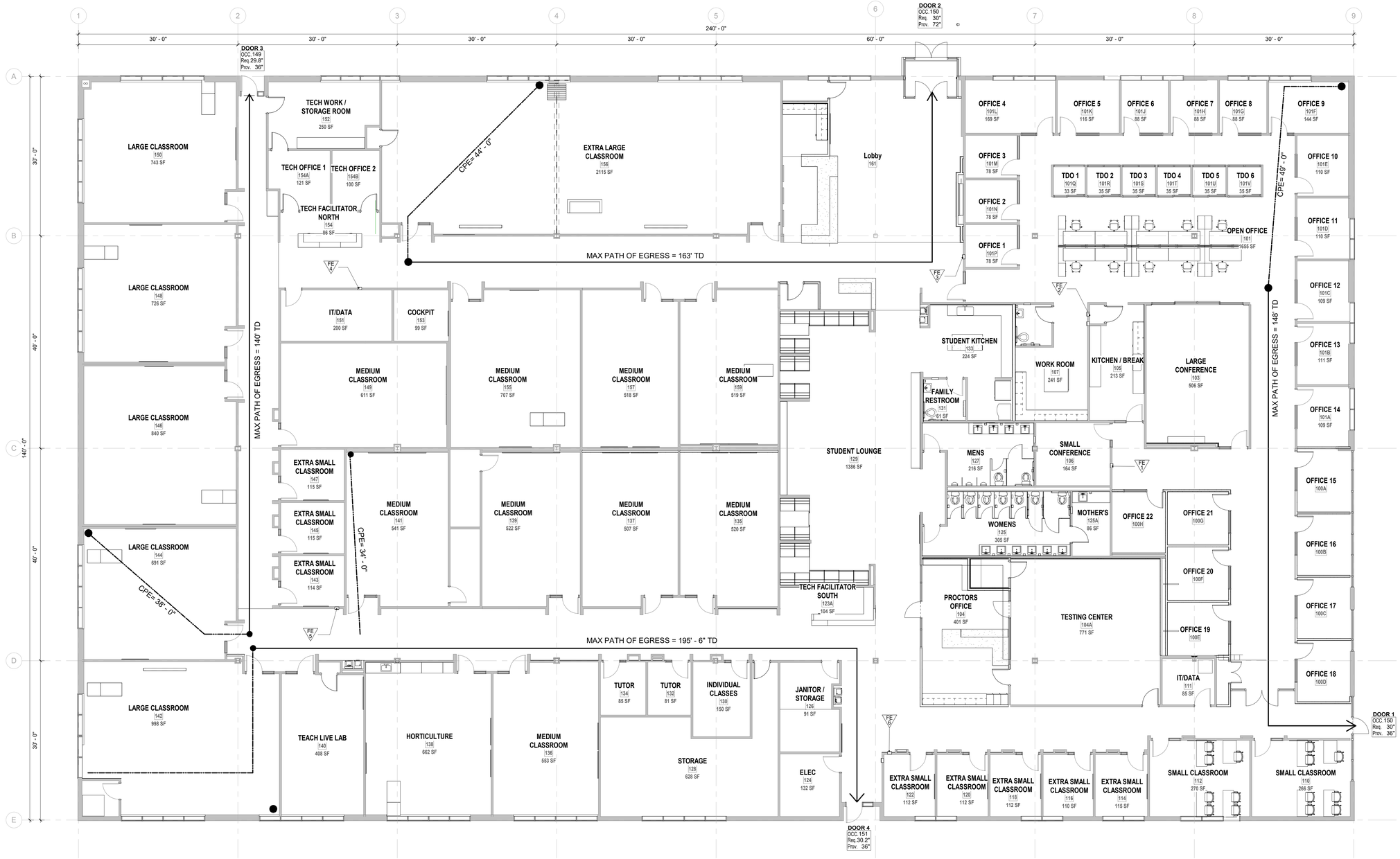
FIRE EXTINGUISHER IN SEMI-RECESSED CABINET — FE 5

FIRE EXTINGUISHER IN SEMI-RECESSED CABINET — FE 6

EXIT WIDTH TAG

REQUIRED AND PROVIDED DOOR OPENING SIZE (IN INCHES) BASED OFF NUMBER OF EXITING OCCUPANTS
as per 2015 IBC Section 1005.3.2

DOOR
OCC. 10
Req. 2"
Prov. 36"



A1 MAIN LEVEL FLOOR PLAN

1/8" = 1'-0"

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date: 05.16.2022
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Code Plans

sheet:

GI102

CONSTRUCTION DOCUMENTS

LEGEND EXISTING

- ADJACENT PROPERTY BOUNDARY
- CULINARY WATER LINE
- SANITARY SEWER LINE
- STORM DRAIN LINE
- IRRIGATION LINE
- GAS LINE
- UNDERGROUND POWER LINE
- AERIAL POWER LINE
- UNDERGROUND COMMUNICATION LINE
- CONTOUR MINOR
- CONTOUR MAJOR
- FENCE
- ASPHALT PAVEMENT
- CLOSED FACE CURB AND GUTTER
- OPEN FACE CURB AND GUTTER
- CONCRETE PAVEMENT
- EXISTING TO BE REMOVED
- WATER VALVE
- FIRE HYDRANT
- WATER METER
- SEWER MANHOLE
- STORM DRAIN BOX
- STORM WATER CATCH BASIN
- ROAD SIGN
- POWER POLE
- DECIDUOUS TREE
- CONIFEROUS TREE

LEGEND PROPOSED

- PROPERTY BOUNDARY
- CULINARY WATER LINE (SIZE SHOWN ON PLAN)
- SANITARY SEWER LINE (SIZE SHOWN ON PLAN)
- STORM DRAIN LINE (SIZE SHOWN ON PLAN)
- IRRIGATION LINE (SIZE SHOWN ON PLAN)
- GAS LINE
- UNDERGROUND POWER LINE
- AERIAL POWER LINE
- UNDERGROUND COMMUNICATION LINE
- CONTOUR MAJOR
- CONTOUR MINOR
- FENCE
- BUILDING SETBACK
- ASPHALT PAVEMENT
- CLOSED FACE CURB & GUTTER
- OPEN FACE CURB & GUTTER
- CURB & GUTTER TRANSITION
- CONCRETE PAVEMENT
- WATER VALVE
- FIRE HYDRANT
- WATER METER
- SEWER MANHOLE
- STORM DRAIN BOX
- STORM WATER CATCH BASIN
- ROAD SIGN

EXCLUDED EXTERIOR SCOPE FROM THE BID SET

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PROFESSIONAL ENGINEER
5/16/22
No. 10293782-2202
WESTON MARTIN SCHULTHESS
STATE OF UTAH

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Taylorsville, UT 84123

project#: 20.0770
date: 05.09.2022
revisions :

title:

LEGEND

sheet:

C001

PERMIT/BID SET



EXCLUDED EXTERIOR SCOPE FROM THE BID SET

1 DEMOLITION PLAN SHEET KEY NOTES:

ALL ITEMS CALLED OUT TO BE REMOVED SHALL BE DISPOSED OF IN AN APPROPRIATE MANNER AND LOCATION:

1. REMOVE CONCRETE
2. REMOVE ASPHALT PAVEMENT
3. REMOVE CURB & GUTTER
4. REMOVE TREE
5. REMOVE LANDSCAPE MOW STRIP
6. SAWCUT LINE (TYP)
7. REMOVE TRASH ENCLOSURE FENCING
8. REMOVE SEWER CLEANOUT. SEE SHEET C102 FOR NEW CLEANOUT LOCATION.
9. EXISTING ELECTRICAL LINE SHOWN FOR REFERENCE. CONTRACTOR TO VERIFY LOCATION PRIOR TO COMMENCING WORK.

GENERAL NOTES:

1. ALL ITEMS NOT CALLED OUT FOR REMOVAL ARE TO REMAIN.
2. CONTRACTOR TO SAWCUT ASPHALT/CONCRETE ALONG ALL SECTIONS WHERE TYING EXISTING AND PROPOSED ASPHALT/CONCRETE TO MAKE CLEAN CONNECTION.
3. SAWCUT AND REMOVE CURB AND GUTTER, SIDEWALK, AND OTHER CONCRETE ELEMENTS AT THE NEAREST CONSTRUCTION JOINT IF FEASIBLE.

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PROFESSIONAL ENGINEER
5/16/22
No. 10293782-2202
WESTON MARTIN SOUTHWICK
STATE OF UTAH

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Taylorsville, UT 84123

project#: 20.0770
date: 05.09.2022
revisions :

title:

DEMOLITION PLAN

sheet:

C101

PERMIT/BID SET



EXCLUDED EXTERIOR SCOPE FROM THE BID SET

1 SITE SHEET KEY 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. CLOSED FACE CURB & GUTTER (1/C501)
2. CONCRETE WATERWAY (3/C501)
3. DRIVEWAY APPROACH (2/C501)
4. ASPHALT PAVEMENT. MATCH EXISTING PAVEMENT SECTION THICKNESS
5. TRASH ENCLOSURE AND SHED. SEE ARCHITECTURAL PLANS FOR DETAILS.
6. CONCRETE FLATWORK (4/C501)
7. SIDEWALK (5/C501)
8. MONUMENT SIGN. SEE LANDSCAPE PLANS FOR DETAILS.
9. SEWER CLEANOUT (6/C501)
10. ELECTRICAL LINE SHOWN FOR REFERENCE ONLY. SEE ELECTRICAL PLANS FOR DETAILS.
11. SIDEWALK. MATCH EXISTING SIDEWALK THICKNESS

GENERAL NOTES:

1. ALL CURB RADII DIMENSIONS ARE TO BACK OF CURB

GRADING ABBREVIATIONS:

1. TC = TOP OF CONCRETE
2. TBC = TOP BACK OF CURB

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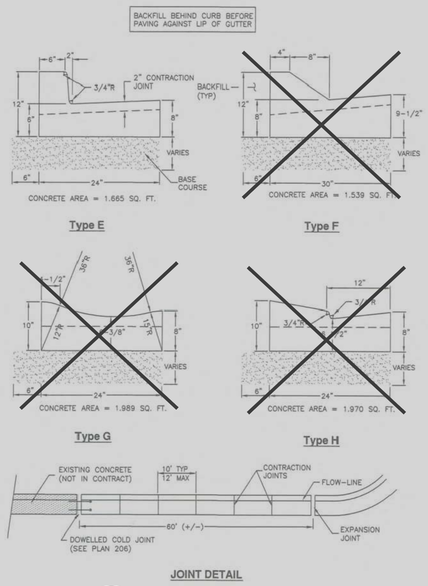
SITE, UTILITY, & GRADING PLAN

sheet:

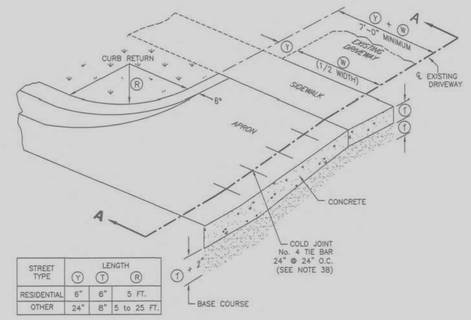
C102

PERMIT/BID SET



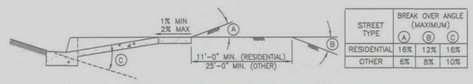
APWA Utah Chapter — 1 / C501 — *Curb and gutter*

Plan 205.2 April 2011



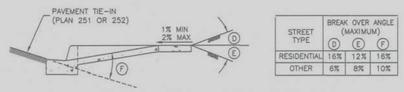
STREET TYPE	LENGTH (Y)	(T)	(R)
RESIDENTIAL	6"	6"	5 FT.
OTHER	24"	8"	5 to 25 FT.

OBLIQUE



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

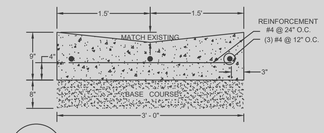


STREET TYPE	BREAK OVER ANGLE (MAXIMUM) (D)	(E)	(F)
RESIDENTIAL	16%	12%	16%
OTHER	6%	8%	10%

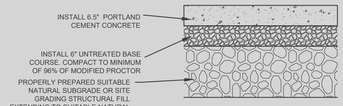
SECTION A-A - TYPICAL DRIVEWAY APPROACH

APWA Utah Chapter — 2 / C501 — *Open driveway approach*

Plan 225 December 2009



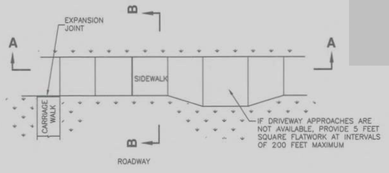
3 / C501 — 3' - 0" WATERWAY



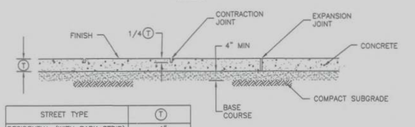
NOTES:
1. ALL MATERIALS MUST MEET ACI 318 REQUIREMENTS

4 / C501 — HEAVY DUTY CONCRETE — NOT TO SCALE

EXCLUDED EXTERIOR SCOPE FROM THE BID SET



PLAN



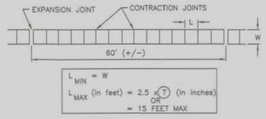
STREET TYPE	(T)
RESIDENTIAL (WITH PARK STRIP)	4"
RESIDENTIAL (NO PARK STRIP)	6"
OTHER	
REPLACING EXISTING SIDEWALK	MATCH EXISTING (4" MIN.)

SEE DRIVEWAY APPROACH PLANS FOR SIDEWALK THICKNESS AT DRIVEWAYS

SECTION A-A



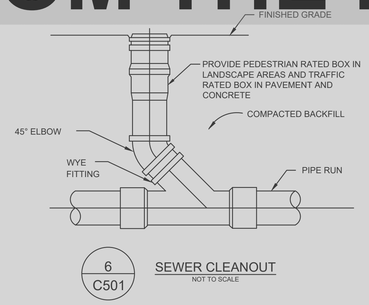
SECTION B-B



SIDEWALK JOINT DETAIL

APWA Utah Chapter — 5 / C501 — *Sidewalk*

Plan 231 March 2009



6 / C501 — SEWER CLEANOUT — NOT TO SCALE

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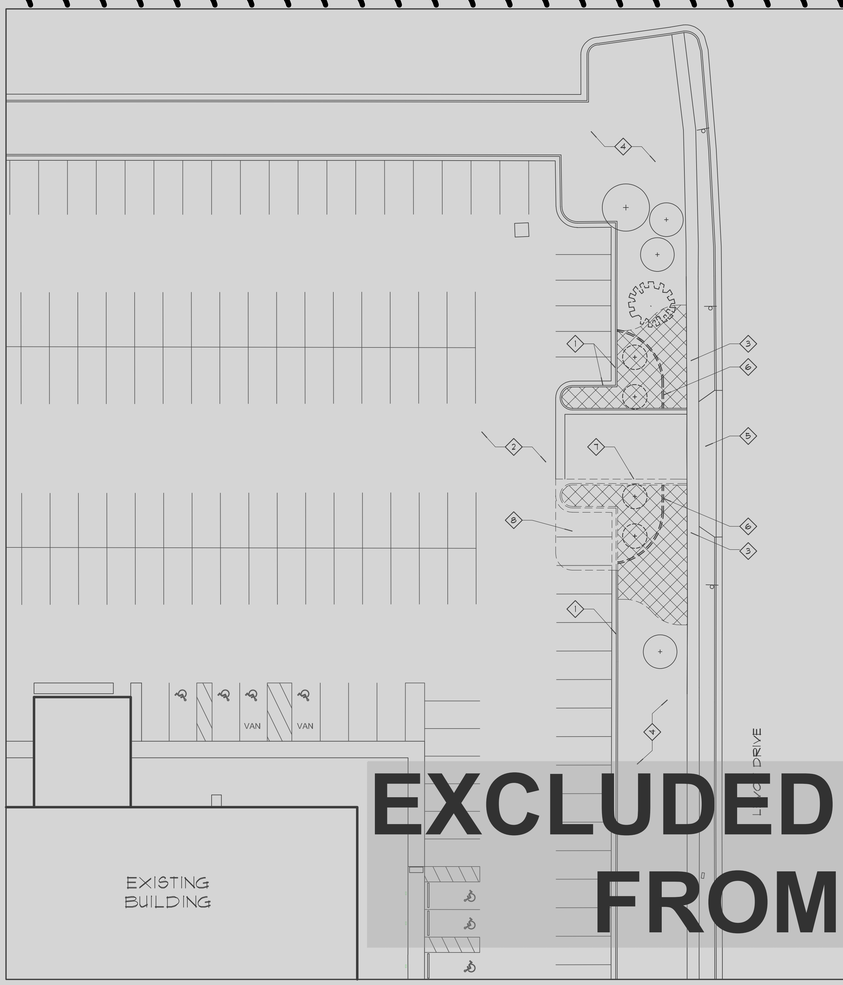
project:
USU Salt Lake East Entrance Remodel

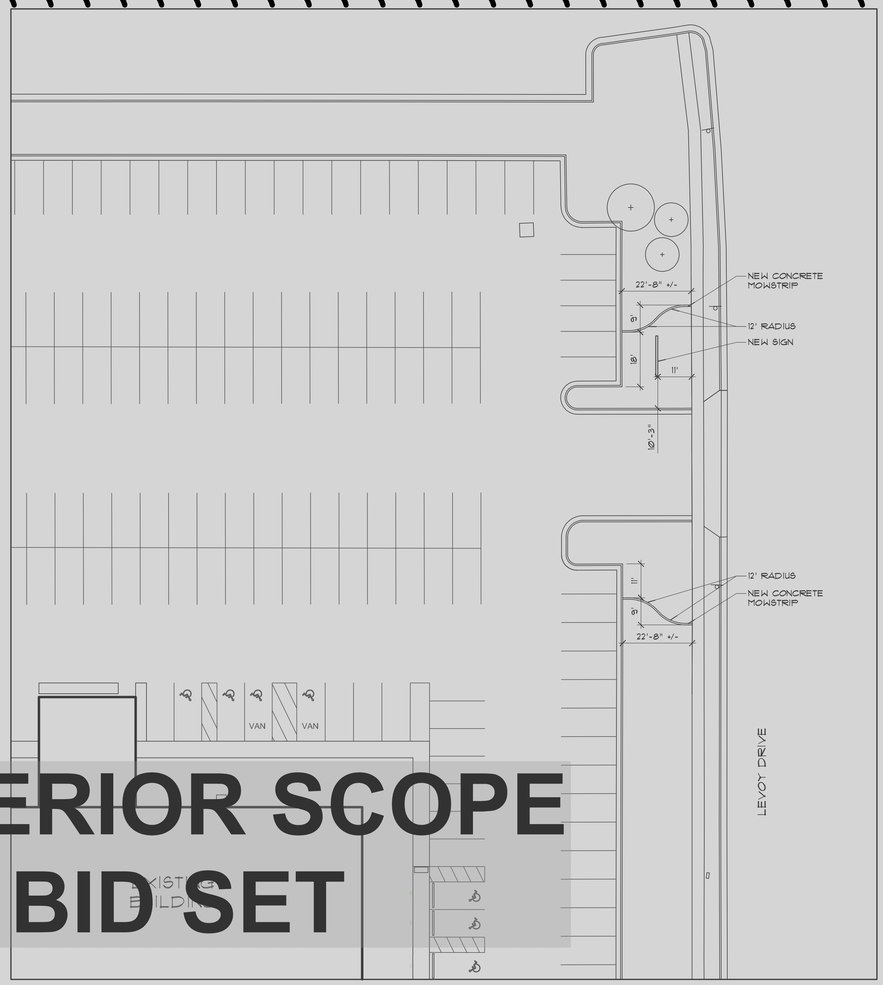
920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.09.2022
revisions :

title:
STANDARD DETAILS

sheet:
C501
PERMIT/BID SET





EXCLUDED EXTERIOR SCOPE FROM THE BID SET

SITE DEMOLITION PLAN

SCALE: 1" = 20' - 0"

NORTH

SITE LAYOUT PLAN

SCALE: 1" = 20' - 0"

NORTH

SITE DEMOLITION LEGEND

EXISTING TREES TO REMAIN. SAFEGUARD DURING NEW CONSTRUCTION.

EXISTING TREES TO BE REMOVED COMPLETELY. GRUB STUMP AND MAJOR ROOTS TO A DEPTH OF 12" MIN. BELOW ADJACENT FINISH GRADE.

EXISTING SOD, SHRUBS, PERENNIALS AND TOPSOIL TO BE REMOVED OF LEGALLY TO A DEPTH OF 4" BELOW EXISTING ADJACENT GRADES AND CONCRETE SITE ELEMENTS. ALSO ABANDON EXISTING IRRIGATION SYSTEM IN HATCHED AREA. REMOVE EXISTING SPRAY HEADS, RISERS, ETC. EXISTING LATERAL LINES CAN REMAIN IN GROUND IF THEY ARENT DISTURBED DURING NEW CONSTRUCTION. IRRIGATION MAIN LINE TO REMAIN, REPAIR IF DAMAGED DURING NEW CONSTRUCTION.

SITE DEMOLITION NOTES

1. EXISTING CONCRETE SIDEWALKS, ASPHALT PARKING, CONCRETE CURBS AND GUTTERS, UTILITIES, MECHANICAL EQUIPMENT, FENCING, LIGHT POLES, RETAINING WALLS, ETC. TO REMAIN, UNLESS OTHERWISE NOTED. CONTRACTOR TO REPAIR OR REPLACE IF DAMAGED DURING NEW CONSTRUCTION.

SITE DEMOLITION KEYED NOTES

1. EXISTING CONCRETE CURBS TO REMAIN, SAFEGUARD DURING NEW CONSTRUCTION.
2. EXISTING ASPHALT PARKING AREA TO REMAIN, SAFEGUARD DURING NEW CONSTRUCTION.
3. EXISTING CONCRETE SIDEWALK TO REMAIN, SAFEGUARD DURING NEW CONSTRUCTION.
4. EXISTING LANDSCAPING AND IRRIGATION SYSTEM TO REMAIN, REPAIR OR REPLACE IF DAMAGED DURING NEW CONSTRUCTION.
5. EXISTING CONCRETE DRIVE APPROACH TO REMAIN, SAFEGUARD DURING NEW CONSTRUCTION.
6. EXISTING CONCRETE MOWSTRIP TO BE REMOVED AND DISPOSED OF LEGALLY.
7. EXISTING CONCRETE CURB/GUTTER TO BE REMOVED AND DISPOSED OF LEGALLY, SEE CIVIL DRAWINGS.
8. EXISTING ASPHALT AND BASE TO BE REMOVED AND DISPOSED OF LEGALLY, SEE CIVIL DRAWINGS.

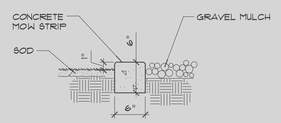
SITE LAYOUT LEGEND

EXISTING TREES TO REMAIN. SAFEGUARD DURING NEW CONSTRUCTION.

NEW 6" x 6" x CONT. CONCRETE MOWSTRIP, SEE NOTES BELOW.

CONCRETE MOWSTRIP NOTES

1. ALL DIMENSIONS FROM LAWN SIDE OF CONCRETE MOWSTRIP UNLESS OTHERWISE NOTED.
2. SEE CONCRETE MOWSTRIP DETAIL A/L101



NOTES:

1. CONTRACTOR TO ENSURE POSITIVE DRAINAGE AROUND MOW STRIPS. DO NOT CREATE A DAM EFFECT WITH PLACEMENT OF MOWSTRIP.
2. MOWSTRIP TO BE 6" x 6" x CONT. MAXIMUM 1/2" WIDTH VARIATION.

CONCRETE MOWSTRIP — A/L101

NOT TO SCALE

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STATE OF UTAH
TROY JOHN ANDERSON
No. 4868825-5301
05-09-22
LICENSED LANDSCAPE ARCHITECT

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USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

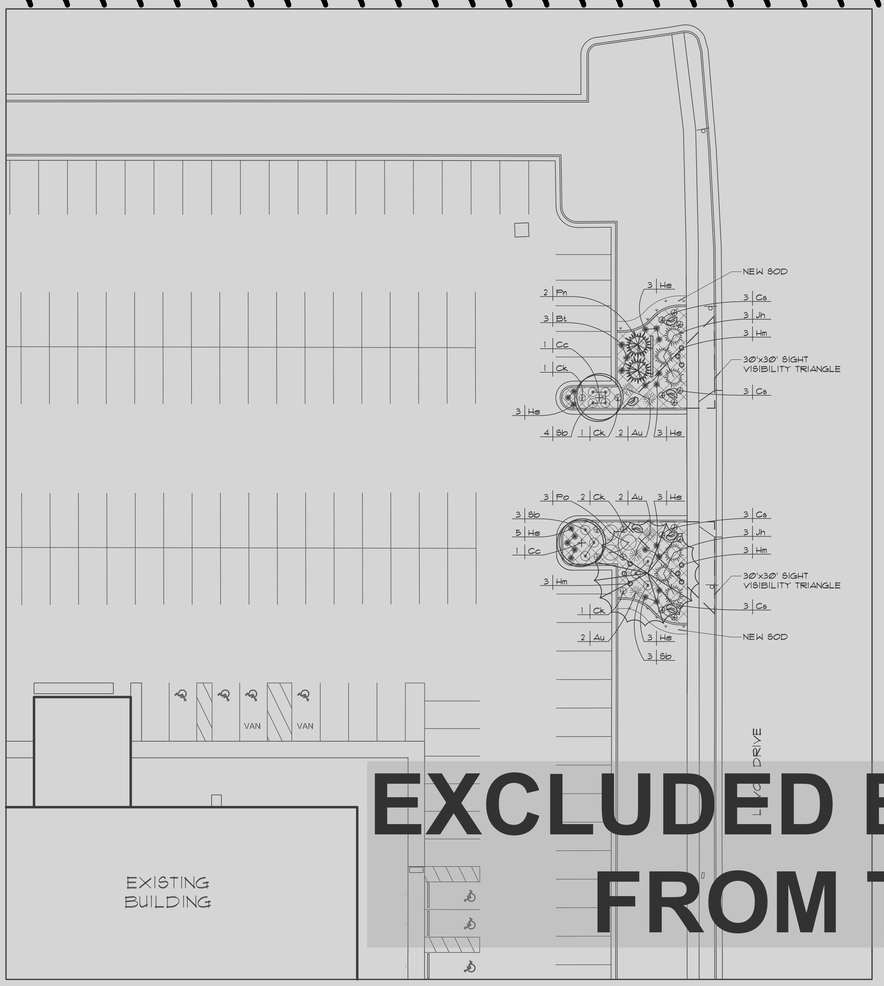
project#: 0770
date: 01.07.2022

revisions:

title:
USU SL Site Layout and Demolition plans

sheet:
L101

PERMIT/BID SET



PLANTING PLAN

SCALE: 1" = 20' - 0"

NORTH

PLANT LEGEND

TREES

SYM.	ABV.	#	SCIENTIFIC NAME	COMMON NAME	SIZE	HEIGHT	WIDTH	NOTES
	Cc	2	Cercis canadensis 'Pink Trim'	Pink Trim Redbud	2" CAL	10'	5'	SEE DETAIL A/L102
	Gt	1	Gleditsia triacanthos 'Shademaster'	Shademaster Honeylocust	2" CAL	12'	5'	SEE DETAIL A/L102
	Pn	2	Pinus Nigra 'Arnold Sentinel'	Arnold Sentinel Austrian Pine		6' B4B	4'	SEE DETAIL B/L102

SHRUBS

SYM.	ABV.	#	SCIENTIFIC NAME	COMMON NAME	SIZE	HEIGHT	WIDTH	NOTES
	Au	50	Arctostaphylos uva-ursi 'Massachusetts'	Massachusetts Kinnikinnick	5 GAL	12"	12"	SEE DETAIL C/L102
	Bt	3	Berberis thunbergii atropurpurea	Crimson Pygmy Barberry	5 GAL	12"	12"	SEE DETAIL C/L102
	Cs	12	Cornus sericea 'Kelseyi'	Kelsey Dwarf Dogwood	5 GAL	12"	12"	SEE DETAIL C/L102
	Jh	6	Juniperus horizontalis 'Wiltonii'	Blue Rug Juniper	5 GAL	6"	18"	SEE DETAIL C/L102
	Po	3	Physocarpus opulifol. 'Summer Wine'	Summer Wine Ninebark	5 GAL	18"	18"	SEE DETAIL C/L102
	Sb	10	Spiraea bumalda 'Goldflame'	Goldflame Spiraea	5 GAL	12"	12"	SEE DETAIL C/L102

PERENNIALS AND GRASSES

SYM.	ABV.	#	SCIENTIFIC NAME	COMMON NAME	SIZE	HEIGHT	WIDTH	NOTES
	Ck	7	Calamagrostis 'Karl Foerster'	Feather Reed Grass	1 GAL	--	12"	SEE DETAIL D/L102
	He	20	Hemerocallis x 'Pardon Me'	Red Daylily	1 GAL	--	12"	SEE DETAIL D/L102
	Hm	9	Heuchera x 'Midnight Rose'	Coral Bells	1 GAL	--	12"	SEE DETAIL D/L102

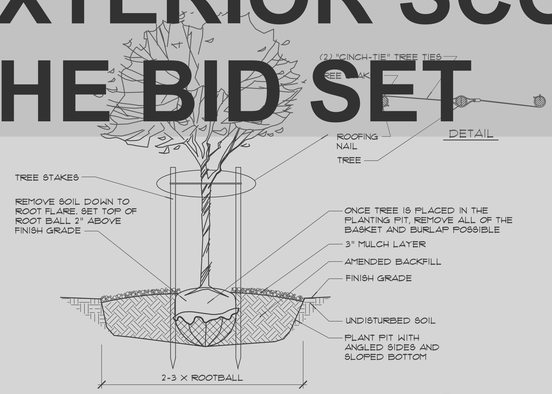
BOULDERS 3'-0"-4'-0" IN DIAMETER (6 TOTAL BOULDERS). SEE DETAIL E/L102.

TOP DRESS ALL SHRUB AREAS WITH 1 1/2" SOUTH TOWN GRAVEL MULCH (CRUSHED) FROM UTAH LANDSCAPING ROCK (3" DEEP MIN.). APPLY PRE-EMERGENT PRIOR TO INSTALLATION OF GRAVEL MULCH.

AREA TO RECEIVE SOD. SEE F/L102.

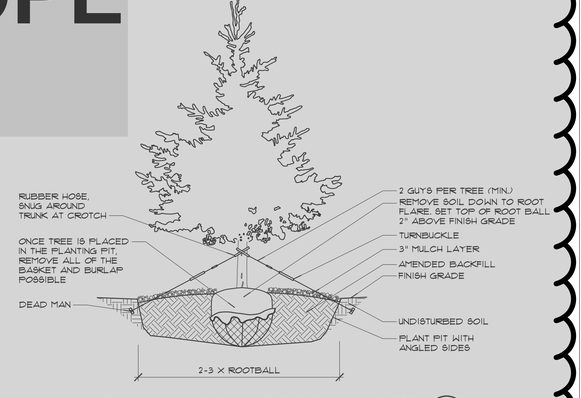
PLANTING NOTES

1. PLANT QUANTITIES ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE PLANT TOTALS MATCH THE NUMBER OF SYMBOLS SHOWN ON THE PLANTING PLAN.
2. ALL WORK SHALL CONFORM TO LOCAL CITY AND COUNTY CODES. CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES, LINES AND STRUCTURES PRIOR TO EXCAVATION OR TRENCHING. DAMAGE TO THESE UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER OR LANDSCAPE ARCHITECT.
3. ALL LANDSCAPING SHALL BE IN CONFORMANCE WITH LANDSCAPE REGULATIONS AND BEST PRACTICES, 2024 EDITION, ORDINANCE NO. 3133, SERIES AND THE AAN (AMERICAN ASSOCIATION OF NURSERYMEN) SPECIFICATIONS FOR NUMBER ONE GRADE.
4. CONTRACTOR SHALL NOT PROCEED WITH PLANT INSTALLATION IF UNKNOWN OBSTRUCTIONS OR GRADE DIFFERENCES EXIST THAT ARE NOT INDICATED ON THE DRAWINGS. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
5. CONTRACTOR IS RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AND SUPPLIERS TO ACCOMPLISH THE LANDSCAPE CONSTRUCTION FOR THIS PROJECT.
6. PLANT SUBSTITUTIONS WILL NOT BE PERMITTED WITHOUT APPROVAL BY LANDSCAPE ARCHITECT.
7. PLANTS SHALL BE INSTALLED IMMEDIATELY UPON DELIVERY TO SITE. IF THIS IS NOT POSSIBLE, PLANTS SHALL BE "HEELED IN" AND WATERED TO PREVENT DAMAGE.
8. PLANT PITS SHALL BE EXCAVATED TO A MINIMUM OF TWICE THE WIDTH OF THE ROOTBALL. DO NOT DISTURB SOIL AT THE BOTTOM OF PIT BUT SCARIFY SIDES TO PREVENT GLAZING.
9. AFTER PLANT INSTALLATION, ALL PLANT MATERIAL SHALL BE PLACED WITH THEIR ROOT COLLARS HIGHER THAN FINISH GRADE, SEE DETAILS ON SHEET L102 FOR HEIGHTS.
10. LANDSCAPE CONTRACTOR SHALL WARRANTEE ALL PLANT MATERIAL FOR ONE COMPLETE GROWING SEASON FROM DATE OF FINAL INSPECTION. LANDSCAPE CONTRACTOR WILL REPLACE DEAD OR DYING PLANTS AT END OF WARRANTEE PERIOD AS DIRECTED BY LANDSCAPE ARCHITECT.
11. ALL LANDSCAPING SHOWN ON THESE PLANS SHALL BE MAINTAINED BY LANDSCAPE CONTRACTOR PRIOR TO FINAL INSPECTION AND ACCEPTANCE OF LANDSCAPING BY OWNER. REQUIRED MAINTENANCE ACTIVITIES SHALL INCLUDED BUT ARE NOT LIMITED TO MOWING OF LAWNS, ADJUSTING IRRIGATION SYSTEM TO PROVIDE ADEQUATE WATER, REPLACEMENT OF DEAD, DISEASED OR UNSIGHTLY LANDSCAPING, REMOVAL OF WEEDS, FERTILIZING IF REQUIRED AND APPROPRIATE PRUNING OF PLANT MATERIALS
12. NO OBSTRUCTION TO VIEW IN EXCESS OF 3' IN HEIGHT SHALL BE PLACED IN 30'x30' SIGHT VISIBILITY TRIANGLE.
13. KEEP MULCH AWAY FROM PLANT STEMS AND TRUNKS 3"-12" DEPENDING UPON SIZE AND TYPE OF PLANT.



DECIDUOUS TREE PLANTING DETAIL A L102

NOT TO SCALE



CONIFEROUS TREE PLANTING DETAIL B L102

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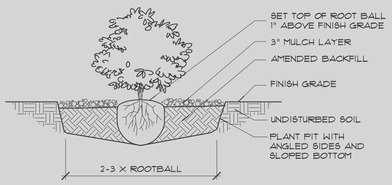
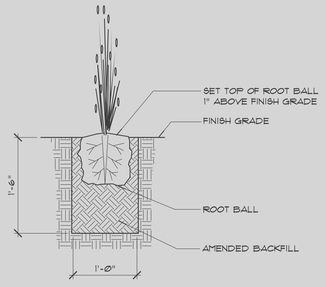


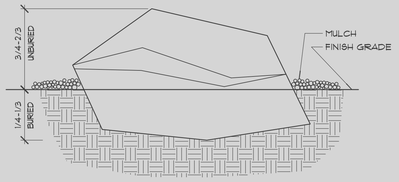
SHRUB PLANTING DETAIL C L102

NOT TO SCALE



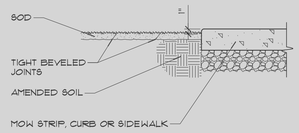
PERENNIAL PLANTING DETAIL D L102

NOT TO SCALE



BOULDER PLACEMENT DETAIL E L102

NOT TO SCALE



SOD INSTALLATION F L102

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USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

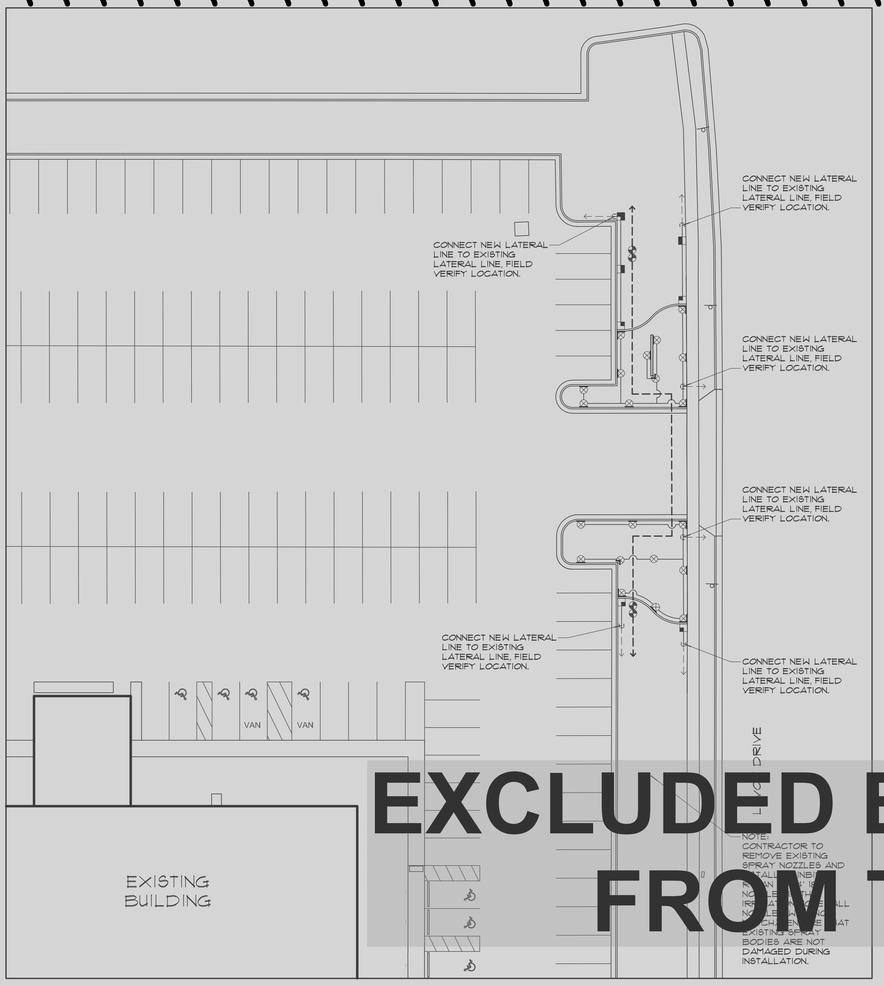
project#: 0770
date: 01.07.2022

revisions :
△

title:
USU SL Planting plan

sheet:
L102

PERMIT/BID SET



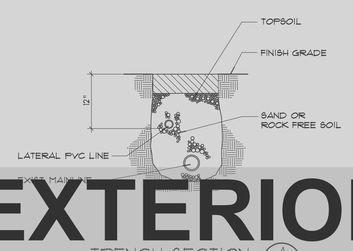
IRRIGATION PLAN
0 10 20 40
SCALE: 1" = 20' - 0"
NORTH

IRRIGATION LEGEND

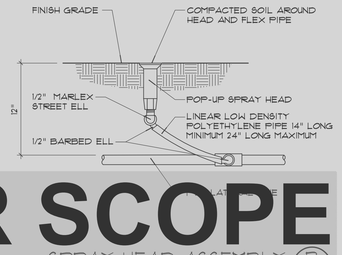
SYM.	DESCRIPTION	MANUF.	MODEL #	RAD.	GPM	PSI	NOTES:
	THREE QUART. CIRCLE POP UP ROTOR	RAINBIRD	1804-45-PSI R-VAN 11'-24' 270°	11'-24'	2.52	45	SEE DETAILS B4C/L103
	HALF CIRCLE POP UP ROTOR	RAINBIRD	1804-45-PSI R-VAN 11'-24' 180°	11'-24'	1.68	45	SEE DETAILS B4C/L103
	QUARTER CIRCLE POP UP ROTOR	RAINBIRD	1804-45-PSI R-VAN 11'-24' 90°	11'-24'	.84	45	SEE DETAILS B4C/L103
	10' FULL POP-UP	RAINBIRD	1804-PRS HE-VAN-10F	10'	1.78	30	SEE DETAILS B4C/L103
	10' THREE QUART. POP-UP	RAINBIRD	1804-PRS HE-VAN-10-TQ	10'	1.34	30	SEE DETAILS B4C/L103
	10' HALF POP-UP	RAINBIRD	1804-PRS HE-VAN-10H	10'	.89	30	SEE DETAILS B4C/L103
	10' QUARTER POP-UP	RAINBIRD	1804-PRS HE-VAN-10Q	10'	.45	30	SEE DETAILS B4C/L103
	EXISTING MAIN LINE						SEE DETAIL A/L103
	NEW LATERAL LINE	1" SCHED. 40 PVC					SEE DETAIL A/L103
	EXISTING LATERAL LINE						
	EXISTING CONTROL VALVE						

IRRIGATION NOTES

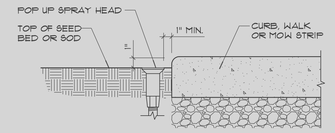
1. THIS SYSTEM IS BASED UPON AN AVAILABLE STATIC PRESSURE OF 50 PSI MINIMUM AND 50 G.P.M. PRIOR TO CONSTRUCTION. CONFIRM STATIC PRESSURE AND SIZE OF P.O.C.
2. LOCATE ALL EXISTING UTILITIES ON SITE PRIOR TO CONSTRUCTION.
3. THIS PLAN IS DIAGRAMMATIC. EQUIPMENT MAY BE SHOWN IN PAVED AREAS AND BUILDINGS FOR PLAN CLARITY.
4. IT IS THE INTENT OF THE IRRIGATION PLAN TO PROVIDE THE CONTRACTOR WITH CONSTRUCTION INFORMATION SUFFICIENT TO INSTALL AN OPERATIONAL IRRIGATION SYSTEM. THE CONTRACTOR SHALL PROVIDE ALL LABOR, PARTS AND MATERIALS REQUIRED.
5. THE CONTRACTOR WILL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS INDICATED ON THE PLANS IF UNKNOWN OBSTRUCTIONS OR CONDITIONS ARE ENCOUNTERED IN THE FIELD. SUCH OBSTRUCTIONS OR CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT. IN THE EVENT THAT THE NOTIFICATION IS NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY NECESSARY REVISIONS.
6. THE CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS AND VALVES FOR OPTIMUM COVERAGE. INSTALL ALL SPRINKLER HEADS WITH NOZZLES INDICATED ON THE IRRIGATION LEGEND. ADJUST ALL NOZZLES TO MINIMIZE SPRAYING ONTO CONCRETE WALKS, ASPHALT, ETC.
7. LATERAL LINES TO BE INSTALLED WITH A MINIMUM OF 12" OF COVER.
8. HEAD SPACING FOR SPRAY HEADS AND ROTARY SPRAY HEADS SHALL BE 50% OF THE MANUFACTURERS LISTED RADIUS FOR THE DESIGN PRESSURE.
9. VELOCITY IN ANY PART OF THE IRRIGATION SYSTEM SHALL NOT EXCEED 5 FEET PER SECOND.
10. REFER TO DETAILS FOR ADDITIONAL INFORMATION.



TRENCH SECTION (A) L103
NOT TO SCALE



SPRAY HEAD ASSEMBLY (B) L103
NOT TO SCALE



SPRAY HEAD OR ROTOR NEXT TO CURB OR WALK (C) L103
NOT TO SCALE

EXCLUDED EXTERIOR SCOPE FROM THE BID SET

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STATE OF UTAH
TROY JOHN ANDERSON
No. 4868825-5301
05-09-22
LICENSED LANDSCAPE ARCHITECT

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project:
USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project# 6.0770
date: 01.07.2022

revisions :
△

title:
USU SL Irrigation plan

sheet:
L103

PERMIT/BID SET

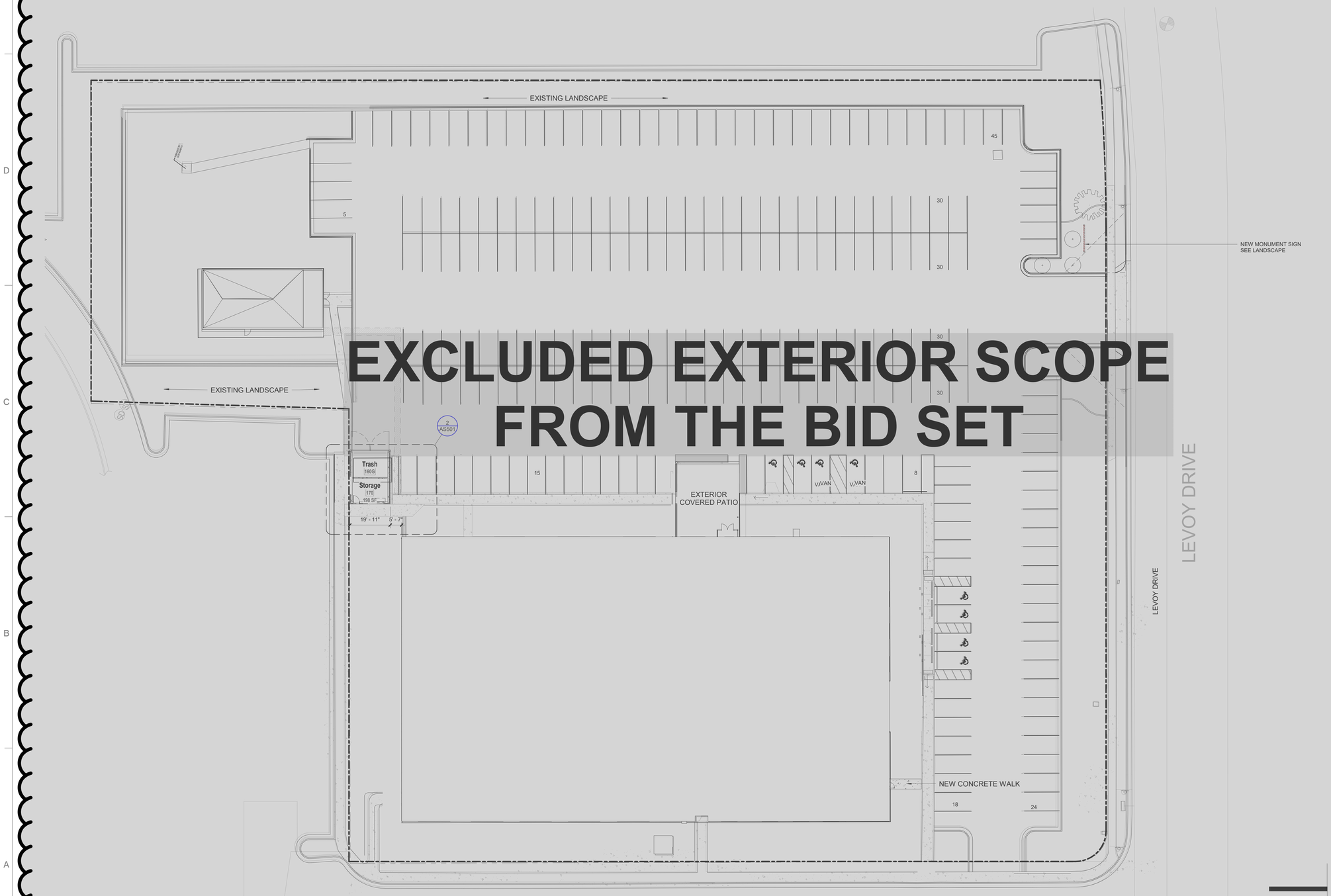
811 Know what's below. Call before you dig.

GENERAL NOTES

VERIFY ALL DIMENSIONS IN FIELD - NOTIFY CONTRACTOR OF ANY DISCREPANCIES

PROTECT ALL EXISTING LANDSCAPING

EXISTING PARKING COUNT 241
EXISTING ACCESSIBLE PARKING 8



EXCLUDED EXTERIOR SCOPE FROM THE BID SET

north

A1 SITE PLAN PARKING RESTRIPING PLAN
1" = 20'-0"

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
revisions :

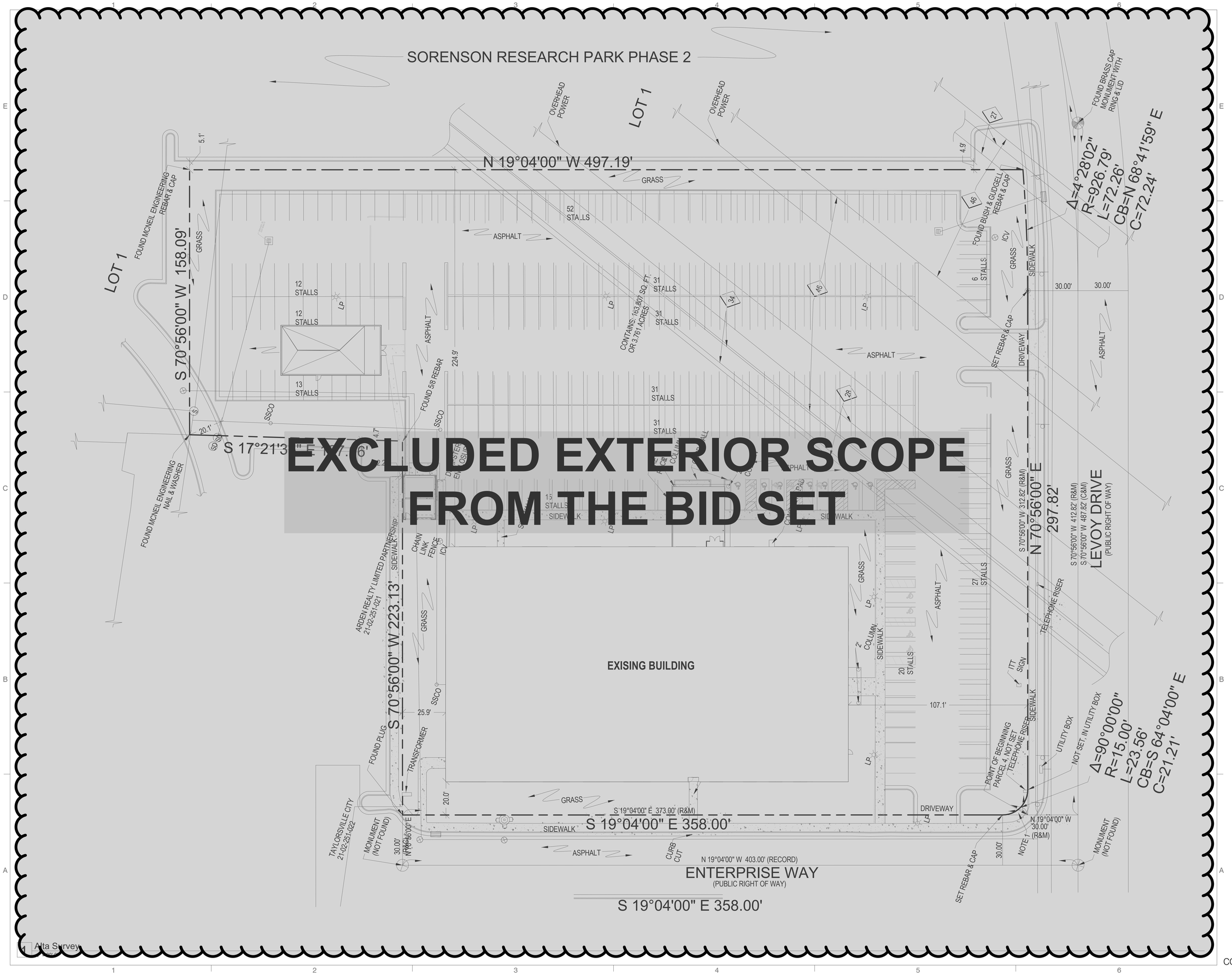
title:

USU SL Center Site Plan

sheet:

AS101

CONSTRUCTION DOCUMENTS



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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project #: 20.0770
date: 05.16.2022
revisions :

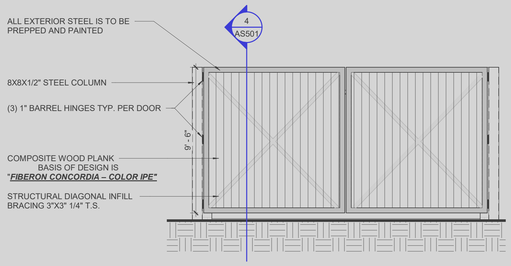
title:

Alta Survey -FOR REFERENCE ONLY

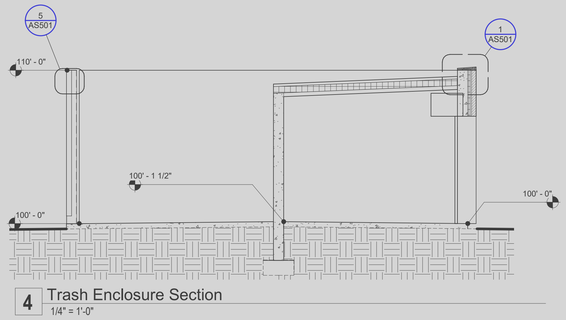
sheet:

AS102

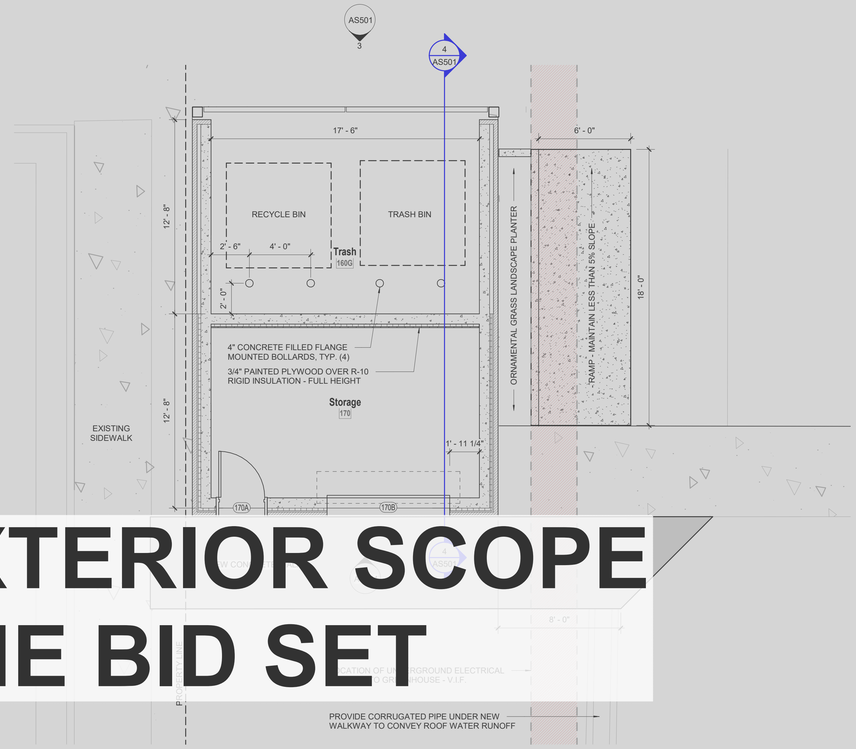
CONSTRUCTION DOCUMENTS



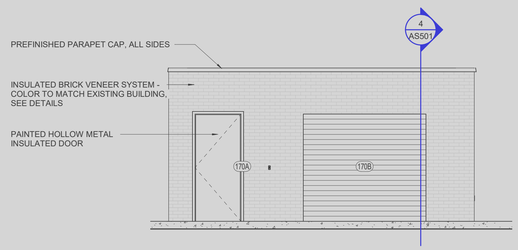
3 Trash Gate Elevation
1/4" = 1'-0"



4 Trash Enclosure Section
1/4" = 1'-0"



2 Enlarged Trash /Storage Enclosure
1/4" = 1'-0"



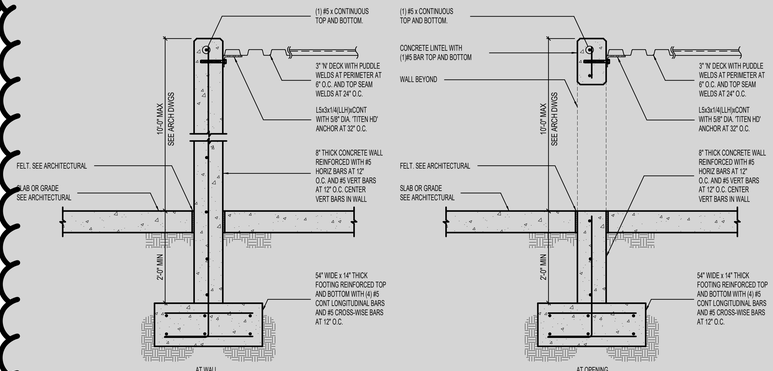
6 Storage Enclosure North Elevation
1/4" = 1'-0"

EXCLUDED EXTERIOR SCOPE FROM THE BID SET

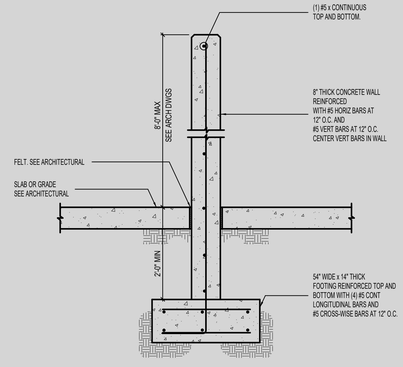
CONCRETE FOOTING SCHEDULE												
MARK	WIDTH	LENGTH	DEPTH	REINFORCING CROSSWISE				REINFORCING LENGTHWISE				COMMENTS
				No.	SIZE	LENGTH	SPACING	No.	SIZE	LENGTH	SPACING	
FC2.0	2'-0"	CONT	12"	-	#4	1'-8"	48"	3	#4	CONT	EQ	

CONCRETE FOOTING NOTES:
1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO).
2. TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.
3. IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.
4. RUN CONTINUOUS FOOTING REINFORCEMENT THROUGH SPOT FOOTINGS.
5. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.
6. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

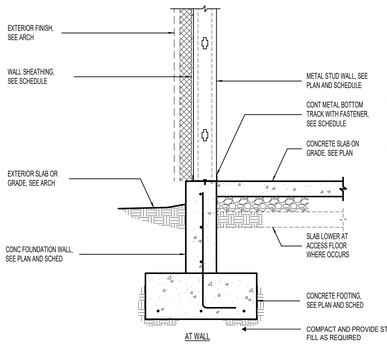
B1 CONCRETE FOOTING SCHEDULE
NO SCALE



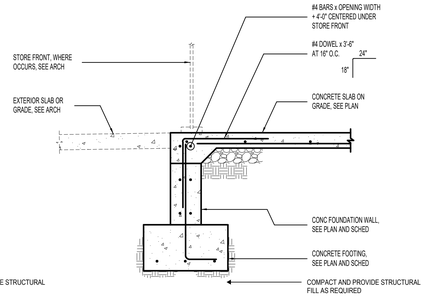
15 CONCRETE STORAGE ENCLOSURE
NO SCALE



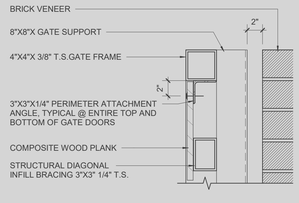
14 CONCRETE TRASH ENCLOSURE
NO SCALE



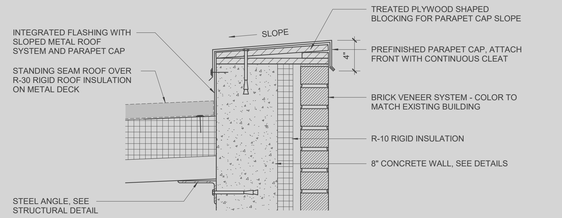
A1 TYPICAL FOUNDATION WALL DETAIL AT METAL STUD WALL



A2 FOUNDATION WALL DETAIL AT STORE FRONT
NO SCALE



5 Trash Enclosure Door Detail
1 1/2" = 1'-0"



1 Trash Enclosure Section - Callout 1
1 1/2" = 1'-0"

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
revisions :

title:

ARCHITECTURAL SITE DETAILS

sheet:

AS501

CONSTRUCTION DOCUMENTS

KEYED NOTES

02.01 REMOVE & DISPOSE OF EXISTING EXTERIOR WINDOW SYSTEM
02.03 REMOVE & DISPOSE OF EXISTING WALL PATCH & REPAIR ADJACENT WALLS AS REQUIRED
02.05 REMOVE & DISPOSE OF EXISTING DOOR AND FRAME
02.07 REMOVE & SALVAGE EXISTING MILLWORK, COORDINATE WITH OWNER
02.08 REMOVE & SALVAGE EXISTING ELECTRICAL FIXTURE COORDINATE WITH OWNER
02.09 REMOVE & DISPOSE OF EXISTING WALL GRAPHIC, PREP WALL FOR NEW WALL FINISH
02.10 REMOVE & DISPOSE OF EXISTING EXTERIOR WALL PATCH & REPAIR ADJACENT WALLS AS REQUIRED, COORDINATE DEMO WITH NEW FLOOR PLAN
02.11 REMOVE & SALVAGE EXISTING GLASS STOREFRONT SYSTEM AND DOOR FOR RE-USE
02.12 REMOVE, SALVAGE, AND RE-USE EXISTING DOOR COORDINATE NEW LOCATION WITH NEW PLAN
02.13 REMOVE & DISPOSE OF EXISTING GLASS VESTIBULE WALLS AND DOORS
02.14 REMOVE & DISPOSE OF EXISTING MILLWORK/COUNTERTOP
02.16 REMOVE & DISPOSE OF EXISTING EXTERIOR CANOPY SYSTEM: PATCH AND REPAIR BRICK AS NEEDED
02.17 REMOVE AND DISPOSE OF EXISTING CONCRETE WALKWAY



1 MAIN LEVEL DEMOLITION
1/8" = 1'-0"

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project:
USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
revisions :

title:
Overall Demolition Plan

sheet:
AD101

CONSTRUCTION DOCUMENTS

KEYED NOTES

02.02 REMOVE & DISPOSE OF EXISTING CEILING /SOFFIT
02.08 REMOVE & SALVAGE EXISTING ELECTRICAL FIXTURE COORDINATE WITH OWNER
02.16 REMOVE & DISPOSE OF EXISTING EXTERIOR CANOPY SYSTEM: PATCH AND REPAIR BRICK AS NEEDED
02.19 COORDINATE WITH ELECTRICAL AND MECHANICAL PLANS TO REMOVE/DISPOSE/AND OR REUSE DIFFUSERS AND LIGHTS AS NOTED HEREIN

CEILING DEMO LEGEND

TYPE AD
EXISTING ACOUSTICAL CEILING TILE TO BE REMOVED AND DISPOSED OF

TYPE GD
EXISTING 5/8" SUSPENDED GYPSUM BOARD CEILING TO BE REMOVED AND DISPOSED OF

TYPE AD2
EXISTING 5/8" SUSPENDED GYPSUM BOARD CEILING TO BE REMOVED AND DISPOSED OF

TYPE EG
EXISTING 5/8" SUSPENDED GYPSUM BOARD CEILING TO REMAIN

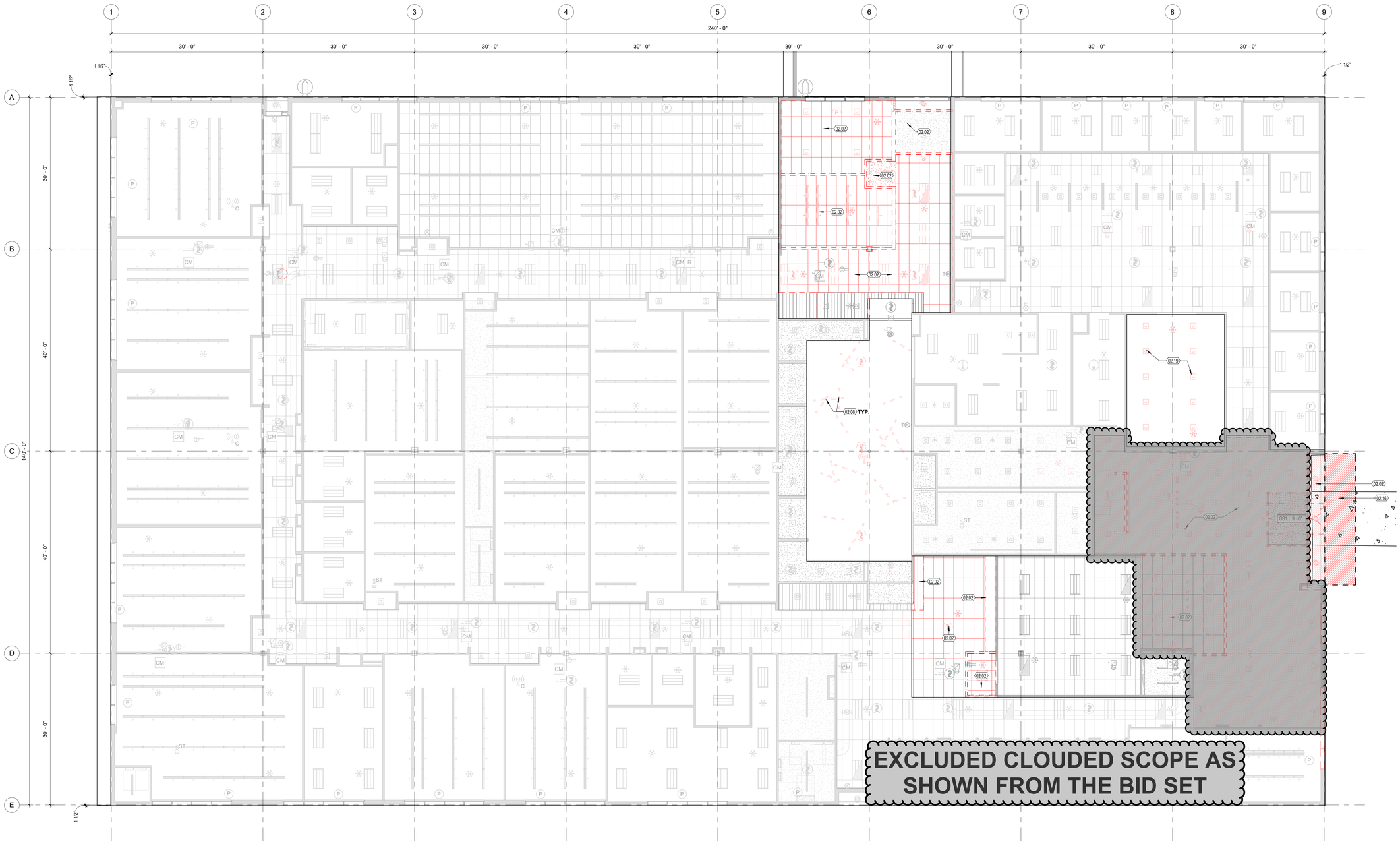
TYPE E
EXPOSED CEILING

2'x4' LIGHT FIXTURE, SEE ELECTRICAL
CAN LIGHT FIXTURE, SEE ELECTRICAL
ACCESS PANEL
2 1/4" X 4 LINEAR FLUORESCENT LIGHT FIXTURE - SEE ELECTRICAL
RECESSED HOUSING FOR ROLLER SHADE
RECESSED HOUSING FOR ROLLER SHADE
SUPPLY DIFFUSER, SEE MECHANICAL
RETURN DIFFUSER, SEE MECHANICAL

CEILING DEMO GENERAL NOTES

DEMOLITION SHALL OCCUR WITHIN THE LIMITS SHOWN IN THE DRAWINGS. A SUMMARY OF THE DEMOLITION SCOPE IS AS DESCRIBED BELOW, AS WELL AS INDICATED BY KEYNOTES HEREIN.

1. REMOVE & DISPOSE EXISTING INCLUDING: SUSPENDED ACOUSTICAL TILE LAYIN GRID AND CEILINGS, AND GYP BD CEILINGS AS INDICATED IN THE DRAWINGS.
2. REMOVE & DISPOSE EXISTING LIGHTING WITHIN EXISTING SUSPENDED LAYIN CEILINGS WHERE INDICATED IN THE DRAWINGS. **SEE ELECTRICAL SHEETS FOR COMPLETE SCOPE.**
3. REMOVE EXISTING MECHANICAL DIFFUSERS AND DUCTING FROM WITHIN THE EXISTING ACOUSTICAL TILE LAYIN GRID AND CEILINGS ALSO GYP BD CEILINGS AS SHOWN DASHED IN THE DRAWINGS.
SEE MECHANICAL DRAWINGS FOR COMPLETE SCOPE OF MECHANICAL DEMOLITION.
4. REMOVE SPRINKLER HEADS FROM DEMOLISHED CEILINGS AND PROTECT FOR REINSTALLATION. COORDINATE WITH MECHANICAL AND SPECIFICATION



A1 MAIN LEVEL REFLECTED CEILING PLAN - DEMO
1/8" = 1'-0"

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920 W Levoy Dr,
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project#: 20.0770
date: 05.16.2022
revisions :

title:
Overall Demolition Reflected Ceiling Plan

sheet:
AD131

CONSTRUCTION DOCUMENTS

KEYED NOTES

02.15 REMOVE & DISPOSE OF EXISTING FINISH FLOOR AS SHOWN HATCHED COORDINATE WITH NEW FINISH FLOOR PLAN

02.15

RIDGE

RIDGE

02.15

02.15

02.15

EXCLUDED CLOUDED SCOPE AS SHOWN FROM THE BID SET

1 Finish Floor Demo Plan
1/8" = 1'-0"

north

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project:

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project #: 20.0770
date: 05.16.2022
revisions :

title:

Overall Finish Floor Demolition Plan

sheet:

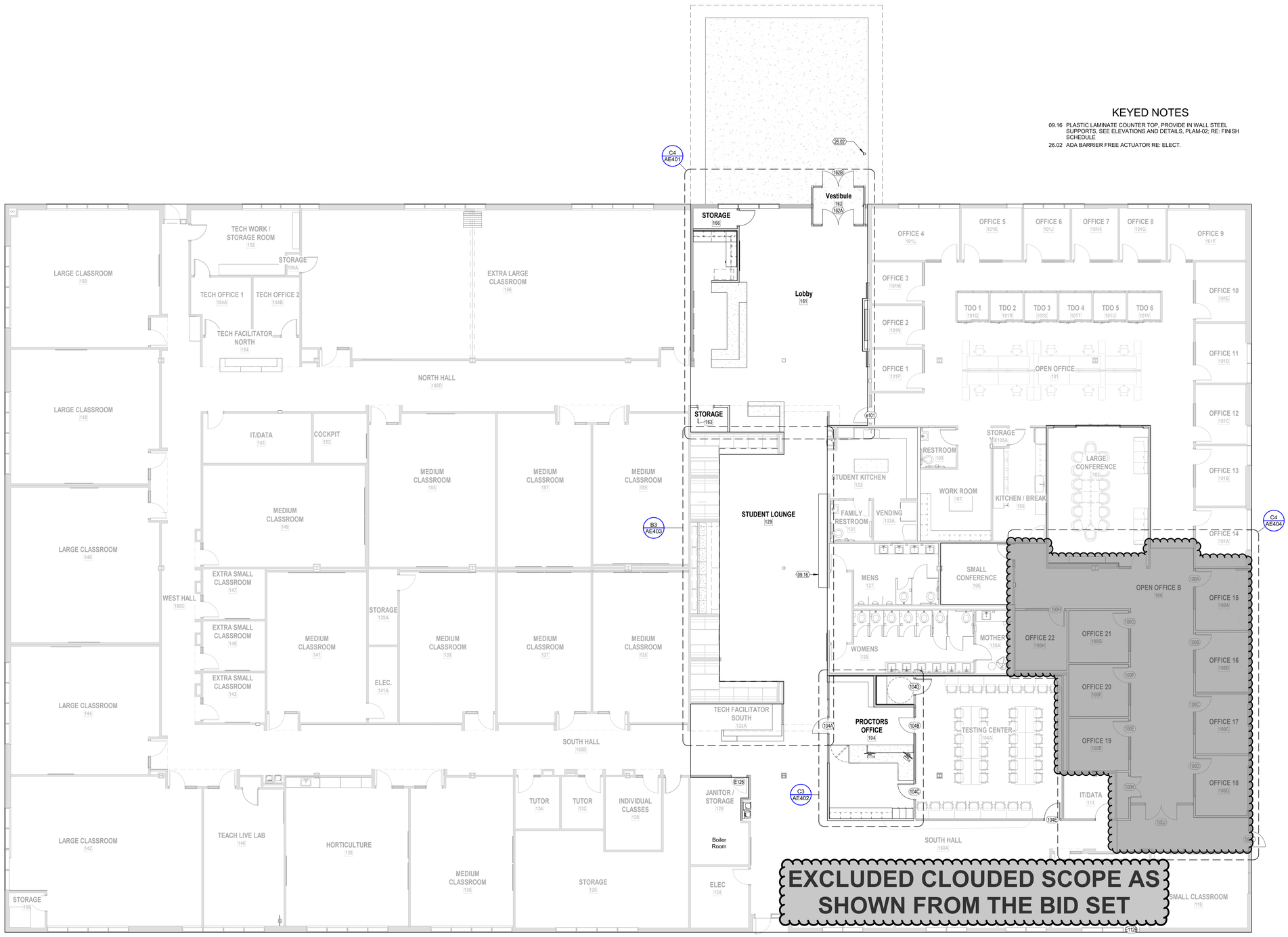
AD141

CONSTRUCTION DOCUMENTS

KEYED NOTES

09.16 PLASTIC LAMINATE COUNTER TOP, PROVIDE IN WALL STEEL SUPPORTS, SEE ELEVATIONS AND DETAILS, PLAM-02; RE: FINISH SCHEDULE

26.02 ADA BARRIER FREE ACTUATOR RE: ELECT.



A1 MAIN LEVEL FLOOR PLAN
1/8" = 1'-0"

north

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project:

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920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
revisions :
1

title:

Overall Floor Plan

sheet:

AE101

CONSTRUCTION DOCUMENTS

CEILING LEGEND

- 2'x2' LIGHT FIXTURE, SEE ELECTRICAL
- 2'x4' LIGHT FIXTURE, SEE ELECTRICAL
- CAN LIGHT FIXTURE, SEE ELECTRICAL
- ACCESS PANEL
- 2 1/4" X 4 LINEAR FLOURESCENT LIGHT FIXTURE - SEE ELECTRICAL
- SUPPLY DIFFUSER, SEE MECHANICAL
- RETURN DIFFUSER, SEE MECHANICAL

TYPE AC1 — NEW : 2' X 4' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID. TO MATCH EXISTING (ROCKFON; "ARTIC" SQUARE LAY-IN CEILING)

TYPE AC2 — EXISTING GYPSUM BOARD CEILING TO REMAIN - PAINTED; SEE FINISH SCHEDULE

TYPE GB1 — NEW 5/8" SUSPENDED GYPSUM BOARD CEILING BRACING AS NECESSARY - PAINTED; SEE FINISH SCHEDULE

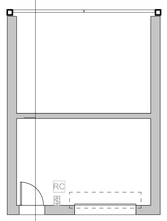
TYPE E — EXPOSED CEILING - PAINTED; SEE FINISH SCHEDULE

TYPE W1 — WOOD SLAT CEILING SEE FINISH SCHEDULE

GENERAL NOTES - CEILING PLAN

1. VERIFY ALL MECHANICAL DUCT, GRILLE, DIFFUSER AND VENT LOCATIONS WITH MECHANICAL DRAWINGS.
2. CEILING GRID SHOWN IS ONLY A GRAPHIC REPRESENTATION OF CEILING. CONTRACTOR SHALL VERIFY ACTUAL GRID LAYOUT/LOCATION.
3. COORDINATE FIXTURE LAYOUT & QUANTITY WITH ELECTRICAL PLANS. REFER TO MECHANICAL DRAWINGS FOR DIFFUSER LOCATIONS.
4. CONTRACTOR TO MAXIMIZE CEILNG HEIGHT DEPENDENT ON DUCTWORK LOCATIONS.
5. ALL PARTITION WALLS GO TO DECK U.N.O. SEE TYPICAL DETAILS ON SHEE AE501
6. ALL EXTERIOR WINDOWS ARE TO RECIEVE NEW ROLLER SHADE SEE E3/AE131
7. ALL EXTERIOR CLASSROOM WINDOWS ARE TO RECEIVE DOUBLESHADES. BASIS-OF-DESIGN: MECHOSHADE/S DOUBLESHADES. NOTIFY ARCHITECT IF INSIDE MOUNT WILL NOT BE POSSIBLE DUE TO INSUFFICIENT DEPTH

KEYED NOTES





1 MAIN LEVEL REFLECTED CEILING PLAN - Callout 1
1/8" = 1'-0"

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project #: 20.0770
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revisions :

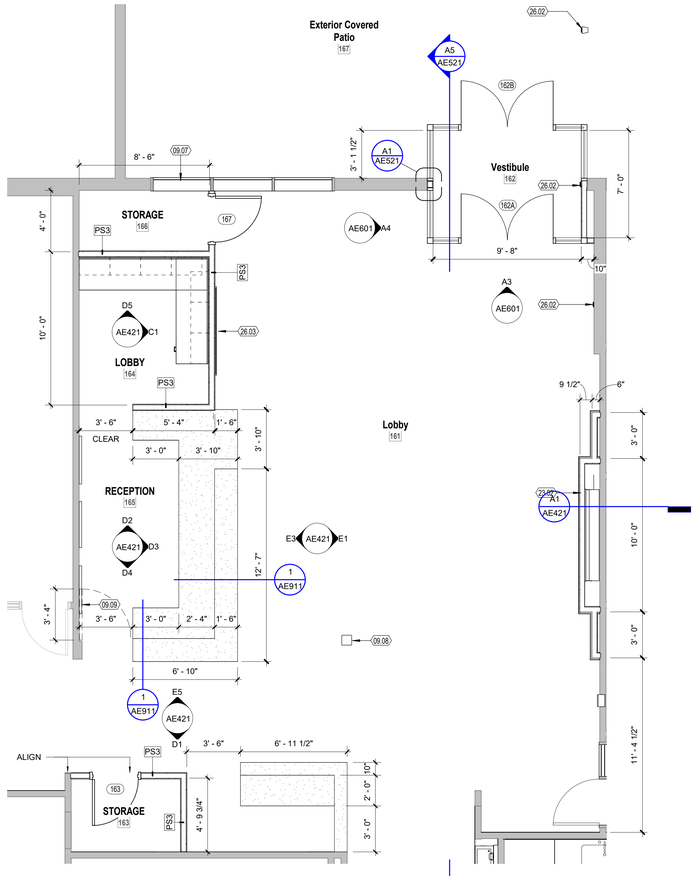
title:

Overall Reflected Ceiling Plan

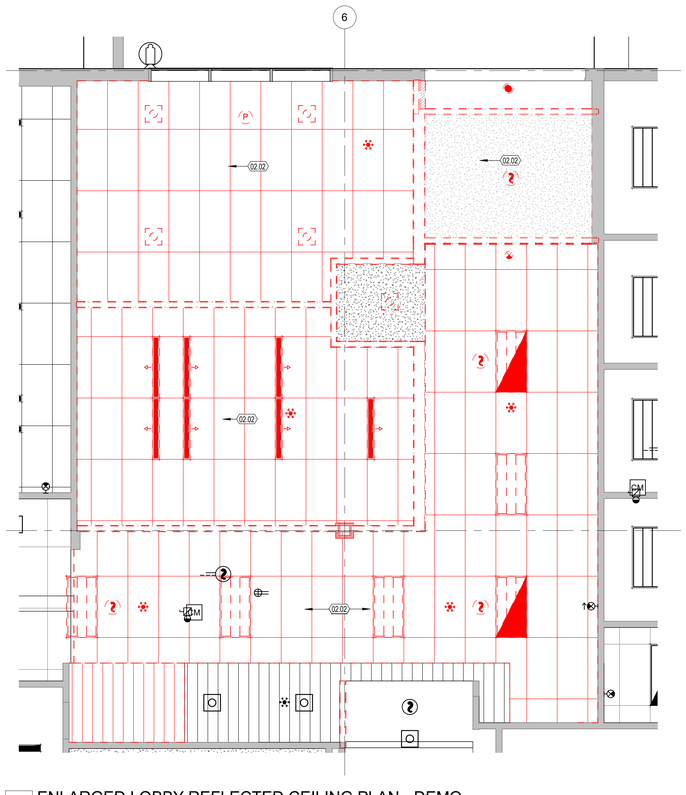
sheet:

AE131

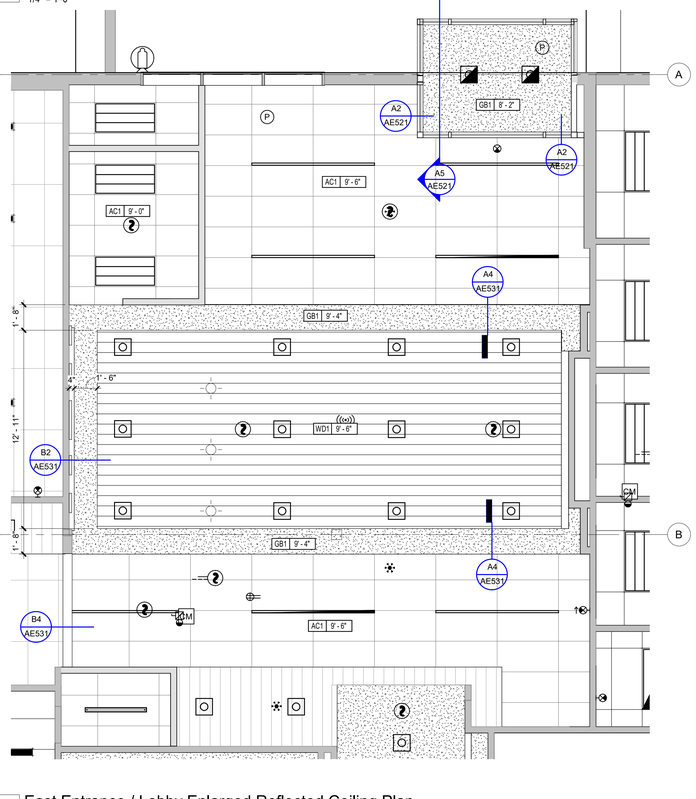
CONSTRUCTION DOCUMENTS



C4 East Entrance / Lobby Enlarged Plan
1/4" = 1'-0"



A1 ENLARGED LOBBY REFLECTED CEILING PLAN - DEMO
1/4" = 1'-0"



A4 East Entrance / Lobby Enlarged Reflected Ceiling Plan
1/4" = 1'-0"

GENERAL DEMO NOTES

1. GENERAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS, MATERIALS, FINISHES AND DIMENSIONS BEFORE AND AFTER DEMOLITION, AND TO CONTACT THE ARCHITECT OF ANY UNFORSEEN CONDITIONS.

2. CONTRACTOR SHALL PROTECT EXISTING STRUCTURE/ASSEMBLIES/ EQUIPMENT AS REQUIRED, FROM DEMOLITION WORK. REPAIR, PATCH AND/OR REPLACE EXISTING CONSTRUCTED ITEMS AND EQUIPMENT THAT ARE TO REMAIN AS REQUIRED FOR NEW CONSTRUCTION.

3. CONTRACTOR TO COORDINATE THE COMPLETE SCOPE OF DEMOLITION WITH ALL TRADES, INCLUDING ELECTRICAL, MECHANICAL, AND PLUMBING. CONTRACTOR IS TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES

4. THE CONTRACTOR SHALL PATCH AND REPAIR TO MATCH EXISTING FINISHES AT WALLS, FLOORS, CEILINGS/SOFFITS, ETC... AS REQUIRED IN THOSE AREAS NOT SPECIFICALLY CALLED OUT IN THE DRAWINGS, BUT THAT ARE EFFECTED BY CONSTRUCTION.

5. GENERAL CONTRACTOR TO PATCH/REPAIR ALL AREAS RESULTING FROM DEMOLITION AND PREPARE SUCH SURFACES TO RECEIVE SCHEDULED FINISHES. REFER TO MECHANICAL, PLUMBING & ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION COORDINATION.

6. UPON COMPLETION OF CONSTRUCTION IT IS THE GENERAL CONTRACTOR'S REPONSIBILITY TO THOROUGHLY CLEAN ALL AREAS IN WHICH CONSTRUCTION TOOK PLACE AND AREAS AFFECTED BY CONSTRUCTION. THE GENERAL CONTRACTOR SHALL CLEAN ALL CARPET, REMOVE ALL DUST, CLEAN DOORS AND FRAMES, LIGHT FIXTURES, CEILING SYSTEMS, MECHANICAL GRILLS, ELECTRICAL PANELS, WINDOW SYSTEMS, GLAZING, ETC...

7. CONTRACTOR TO MAINTAIN EXITS, EXISTING STRUCTURAL ELEMENTS, APPLIED FIREPROOFING PROTECTION DEVICES AND SANITARY SAFEGUARDS AT ALL TIMES DURING DEMOLITION AND CONSTRUCTION.

CEILING DEMO LEGEND

- EXISTING ACOUSTICAL CEILING TILE TO BE REMOVED AND DISPOSED OF
- EXISTING 5/8" GYPSUM BOARD CEILING TO BE REMOVED AND DISPOSED OF
- EXISTING 5/8" SUSPENDED GYPSUM BOARD CEILING TO REMAIN
- EXPOSED CEILING
- 2'x4' LIGHT FIXTURE, SEE ELECTRICAL
- CAN LIGHT FIXTURE, SEE ELECTRICAL
- ACCESS PANEL
- 2 1/4" X 4 LINEAR FLUORESCENT LIGHT FIXTURE - SEE ELECTRICAL
- SUPPLY DIFFUSER, SEE MECHANICAL
- RETURN DIFFUSER, SEE MECHANICAL

CEILING DEMO NOTES

DEMOLITION SHALL OCCUR WITHIN THE LIMITS SHOWN IN THE DRAWINGS. A SUMMARY OF THE DEMOLITION SCOPE IS AS DESCRIBED BELOW, AS WELL AS INDICATED BY KEYNOTES HEREIN.

1. REMOVE & DISPOSE EXISTING INCLUDING: SUSPENDED ACOUSTICAL TILE LAYIN GRID AND CEILINGS, AND GYP BD CEILINGS AS INDICATED IN THE DRAWINGS.
2. REMOVE & DISPOSE EXISTING LIGHTING WITHIN EXISTING SUSPENDED LAYIN CEILINGS WHERE INDICATED IN THE DRAWINGS. **SEE ELECTRICAL SHEETS FOR COMPLETE SCOPE.**
3. REMOVE EXISTING MECHANICAL DIFFUSERS AND DUCTING FROM WITHIN THE EXISTING ACOUSTICAL TILE LAYIN GRID AND CEILINGS ALSO GYP BD CEILINGS AS SHOWN DASHED IN THE DRAWINGS. **SEE MECHANICAL DRAWINGS FOR COMPLETE SCOPE OF MECHANICAL DEMOLITION.**
4. REMOVE SPRINKLER HEADS FROM DEMOLISHED CEILINGS AND PROTECT FOR REINSTALLATION. COORDINATE WITH MECHANICAL AND SPECIFICATION

GENERAL NOTES

1. ASSUME PAINT P-1 ON ALL GYP SURFACES. UNLESS OTHERWISE INDICATED.
2. SEE AE601 FOR MILLWORK DESCRIPTION AND FINISH MATERIALS
3. ALL EXPOSED MILLWORK TO MATCH THAT OF FINISH FACE.
4. ALL INTERIOR MILLWORK FINISHES TO BE WHITE MELAMINE UNLESS OTHERWISE SPECIFIED.
5. REFER TO SHEET AE603 FOR ALL INTERIOR GLAZING TYPES
6. WHERE MILLWORK SPANS GREATER THAN 10'-0", INDICATE SEAM LOCATIONS ON SHOP DRAWINGS FOR ARCHITECT APPROVAL.
7. ALL WALL OUTLETS, INCLUDING BUT NOT LIMITED TO: ELECTRICAL, DATA, KEYPADS AND LIGHT SWITCHES ARE TO BE INSTALLED LEVEL AND IN LINE WITH ALL OTHERS.
8. KEYNOTED AREA INDICATES FUTURE GRAPHIC BY OWNER. CONTRACTOR TO PROVIDE LEVEL 5 FINISH ON ALL APPLICABLE WALLS.
9. CONTRACTOR TO PROVIDE CONTINUOUS IN-WALL BLOCKING FOR ALL WALL HUNG AND FULL HEIGHT MILLWORK.

KEYED NOTES

02.02	REMOVE & DISPOSE OF EXISTING CEILING /SOFFIT
09.07	WINDOW FILM BASIS OF DESIGN IS 3M™ Scotchshield™ Safety & Security Window Film Ultra Prestige Series
09.08	EXPOSED STEEL COLUMN FULLY PREP, SAND SMOOTH AND PAINT, PNT-01; RE: FINISH SCHEDULE
09.09	MILLWORK SWINGING GATE, PLASTIC LAMINATE, PLAM-01; RE: FINISH SCHEDULE
23.02	LINEAR FIREPLACE BASIS OF DESIGN IS THE ELECTRIC FIREPLACE "MODERN FLAMES 80 INCH LANDSCAPE PRO MULTI", SEE SPECS, RE: MECH
26.02	ADA BARRIER FREE ACTUATOR RE: ELECT.
26.03	FLAT SCREEN DISPLAY, RE: ELECTRICAL

CEILING LEGEND

TYPE AC1	SEE FINISH SCHEDULE
TYPE AC2	SEE FINISH SCHEDULE
TYPE GB1	5/8" GYPSUM BOARD CEILING (PAINTED) ON SUPSENDED / FRAMED CEILING, BRACING AS NECESSARY
TYPE C	EXPOSED STRUCTURE
WD 01	PANELIZED LINEAR WOOD CEILING SEE FINISH SCHEDULE

SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MECHANICAL AND ELECTRICAL CEILING ELEMENTS

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project #: 20.0770
date: 05.16.2022
revisions :

title:

Entrance Lobby Enlarged Plans

sheet:

AE401

CONSTRUCTION DOCUMENTS

GENERAL NOTES

1. ASSUME PAINT P-1 ON ALL GYP SURFACES. UNLESS OTHERWISE INDICATED.
2. SEE AE601 FOR MILLWORK DESCRIPTION AND FINISH MATERIALS
3. ALL EXPOSED MILLWORK TO MATCH THAT OF FINISH FACE.
4. ALL INTERIOR MILLWORK FINISHES TO BE WHITE MELAMINE UNLESS OTHERWISE SPECIFIED.
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8. KEYNOTED AREA INDICATES FUTURE GRAPHIC BY OWNER. CONTRACTOR TO PROVIDE LEVEL 5 FINISH ON ALL APPLICABLE WALLS.
9. CONTRACTOR TO PROVIDE CONTINUOUS IN-WALL BLOCKING FOR ALL WALL HUNG AND FULL HEIGHT MILLWORK.

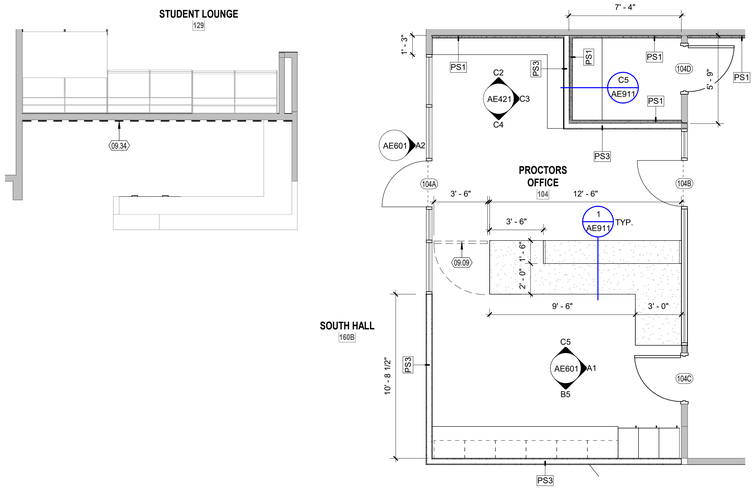
GENERAL NOTES - FINISH PLAN

1. SEE FLOOR PLANS FOR INTERIOR ELEVATIONS
2. ALL METAL STUDS WALLS TO DECK ABOVE, SEE SHEET AE501 FOR WALL TYPES
3. ALL MATERIALS TO BE INSTALLED PER SPECEFIC MANUFACTURER'S INSTALLATION RECOMMENDATION
4. FLOORING MATERIAL TRANSITIONS TO OCCUR AT CENTER LINE OF DOOR THRESHOLDS, U.N.O.
5. PREPARE FLOORS/WALLS TO RECIEVE FINISH MATERIAL. REFER TO MANUFACTURER'S RECCOMENDATIONS.
6. REFER TO ROOM FINISH SCHEDULE AND MATERIAL LEGEND ON SHEET AF107.
7. CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL MILLWORK, FIXED FURNISHINGS & EQUIPMENT.

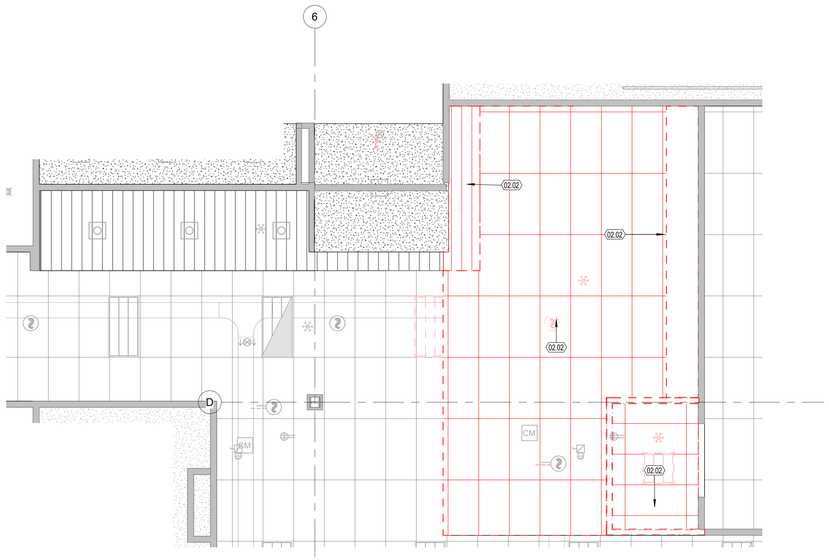
CEILING LEGEND

TYPE AC1	SEE FINISH SCHEDULE
TYPE AC2	SEE FINISH SCHEDULE
TYPE GB1	5/8" GYPSUM BOARD CEILING (PAINTED) ON SUPSENDED / FRAMED CEILING, BRACING AS NECESSARY
TYPE C	EXPOSED STRUCTURE
WD 01	PANELIZED LINEAR WOOD CEILING SEE FINISH SCHEDULE

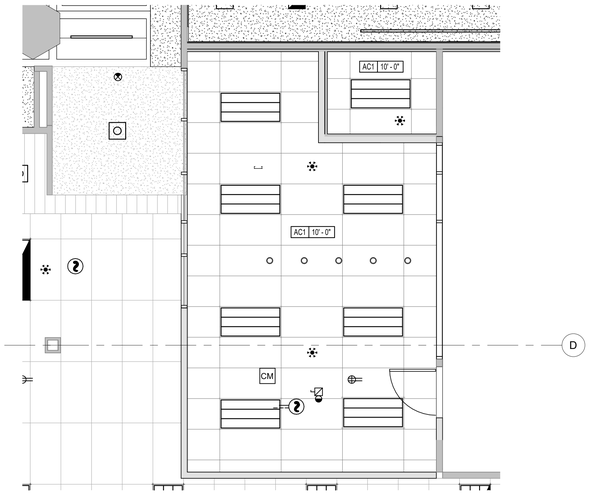
SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MECHANICAL AND ELECTRICAL CEILING ELEMENTS



C3 New Testing Center Entrance Floor Plan
1/4" = 1'-0"



5 Main Level Testing Center Entrance Enlarged Demo RCP
1/4" = 1'-0"



C1 New Testing Center Entrance Reflected Ceiling Plan
1/4" = 1'-0"

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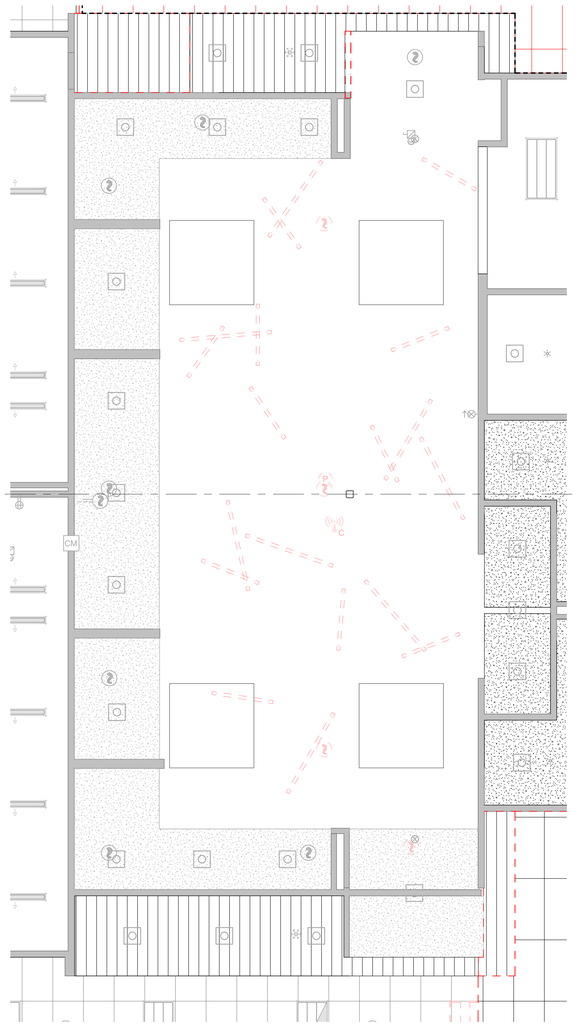
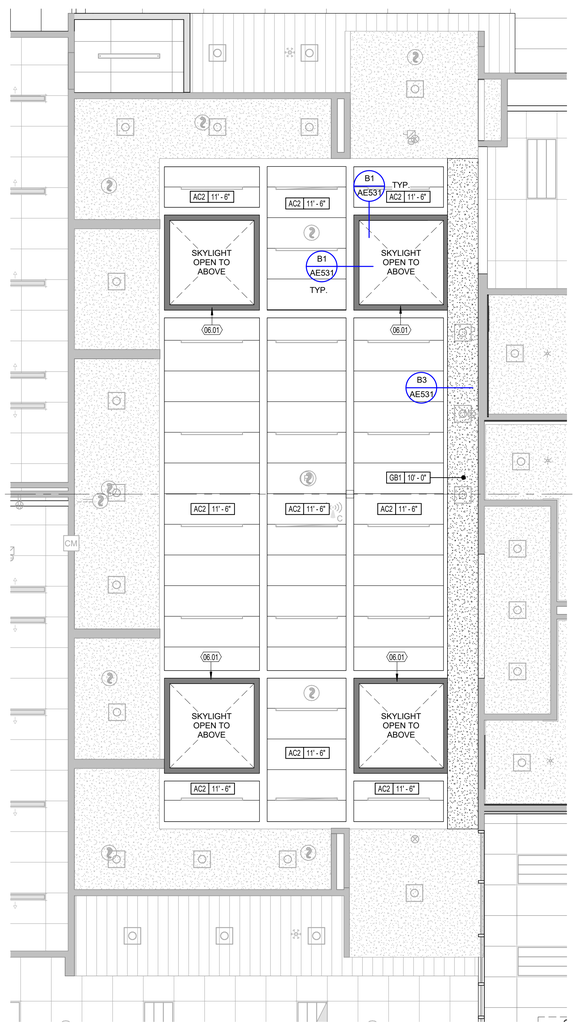
AE402

CONSTRUCTION DOCUMENTS



B1 Student Lounge Enlarged Reflected Ceiling Plan Demo Plan
1/4" = 1'-0"



B3 Student Lounge Enlarged Reflected Ceiling Plan
1/4" = 1'-0"

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CEILING DEMO LEGEND

- EXISTING ACOUSTICAL CEILING TILE TO BE REMOVED AND DISPOSED OF
- EXISTING 5/8" GYPSUM BOARD CEILING TO BE REMOVED AND DISPOSED OF
- EXISTING 5/8" SUSPENDED GYPSUM BOARD CEILING TO REMAIN
- EXPOSED CEILING
- 2'x4' LIGHT FIXTURE, SEE ELECTRICAL
- CAN LIGHT FIXTURE, SEE ELECTRICAL
- ACCESS PANEL
- 2 1/4" X 4 LINEAR FLUORESCENT LIGHT FIXTURE - SEE ELECTRICAL
- SUPPLY DIFFUSER, SEE MECHANICAL
- RETURN DIFFUSER, SEE MECHANICAL

CEILING DEMO NOTES

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2. REMOVE & DISPOSE EXISTING LIGHTING WITHIN EXISTING SUSPENDED LAYIN CEILINGS WHERE INDICATED IN THE DRAWINGS. **SEE ELECTRICAL SHEETS FOR COMPLETE SCOPE.**
3. REMOVE EXISTING MECHANICAL DIFFUSERS AND DUCTING FROM WITHIN THE EXISTING ACOUSTICAL TILE LAYIN GRID AND CEILINGS ALSO GYP BD CEILINGS AS SHOWN DASHED IN THE DRAWINGS.
SEE MECHANICAL DRAWINGS FOR COMPLETE SCOPE OF MECHANICAL DEMOLITION.
4. REMOVE SPRINKLER HEADS FROM DEMOLISHED CEILINGS AND PROTECT FOR REINSTALLATION. COORDINATE WITH MECHANICAL AND SPECIFICATION

KEYED NOTES

06.01 FRAME DOWN SKYLIGHTS ON ALL 4 SIDES WITH 3 5/8" STUDS FROM B.O. ROOF DECK TO BOTTOM OF CEILING CLOUDS AS SHOWN. PAINTED GYP ON BOTH SIDES OF FRAMED DOWN WALL

CEILING LEGEND

TYPE AC1	SEE FINISH SCHEDULE
TYPE AC2	SEE FINISH SCHEDULE
TYPE GB1	5/8" GYPSUM BOARD CEILING (PAINTED) ON SUPSENDED / FRAMED CEILING, BRACING AS NECESSARY
TYPE C	EXPOSED STRUCTURE
WD 01	PANELIZED LINEAR WOOD CEILING SEE FINISH SCHEDULE

SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MECHANICAL AND ELECTRICAL CEILING ELEMENTS

Ceiling Legend
1/8" = 1'-0"

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920 W Levoy Dr,
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project#: 20.0770
date: 05.16.2022
revisions :

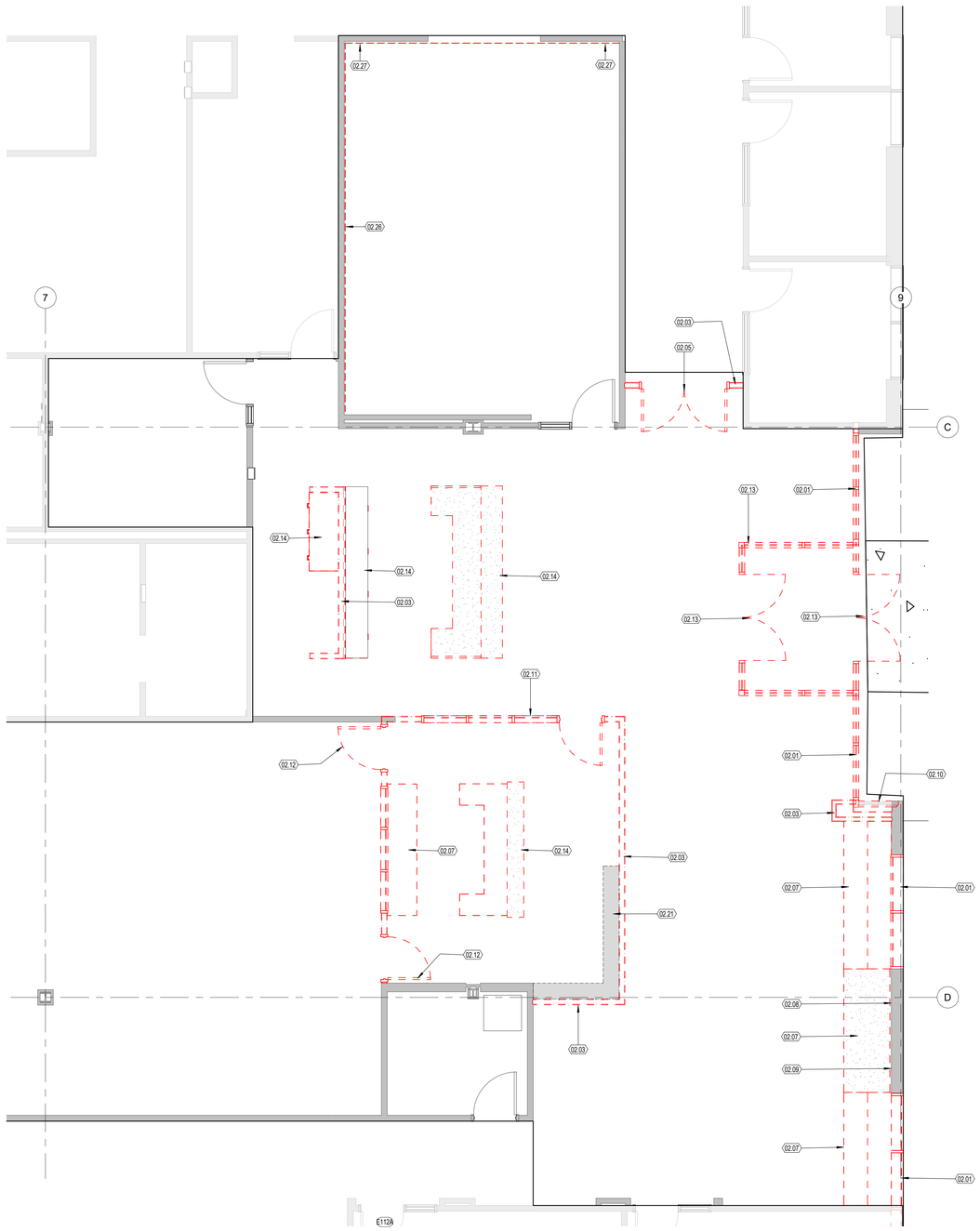
title:

Student Lounge

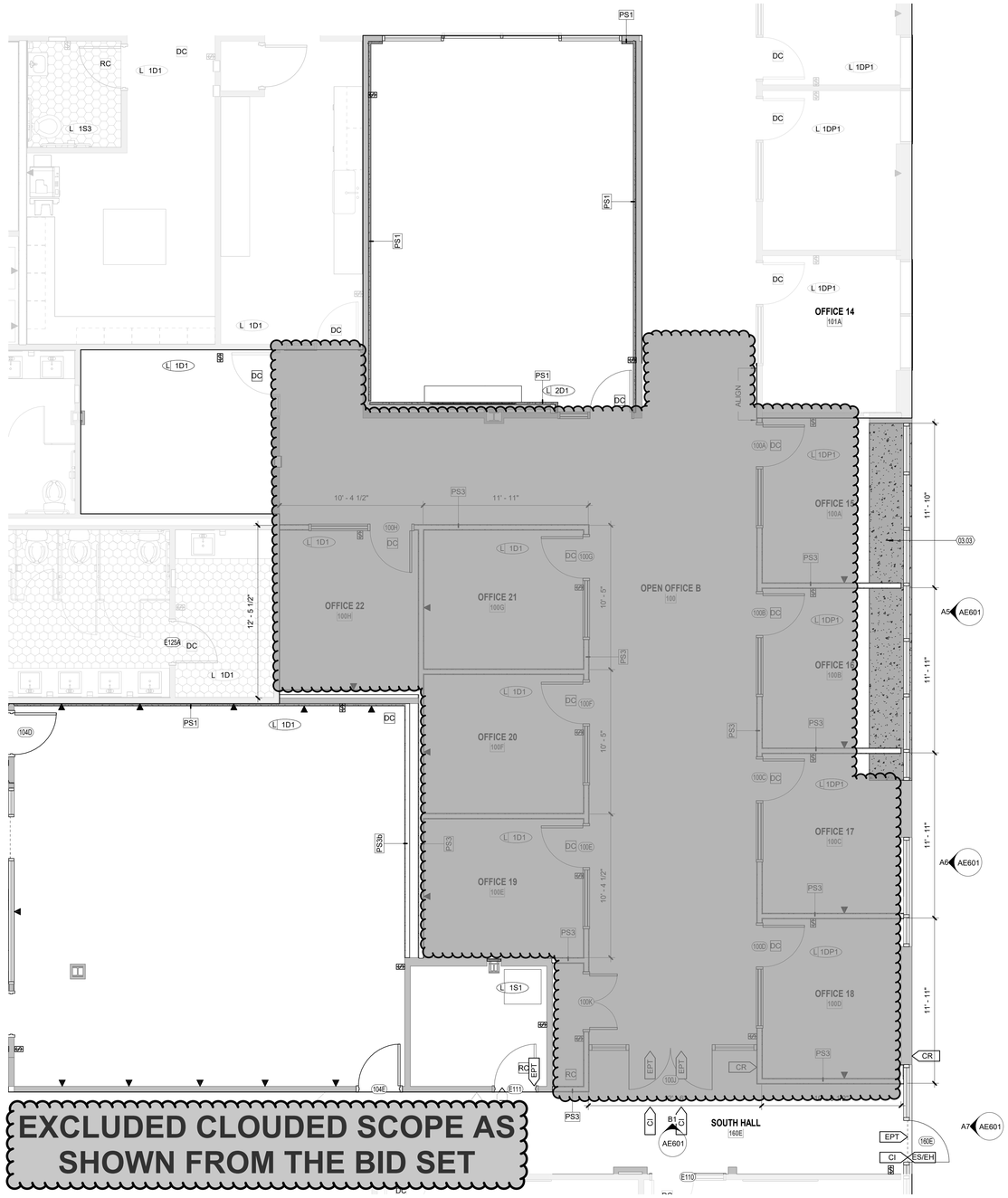
sheet:

AE403

CONSTRUCTION DOCUMENTS



C1 MAIN LEVEL DEMOLITION
1/4" = 1'-0"



EXCLUDED CLOUDED SCOPE AS SHOWN FROM THE BID SET

C4 New South Office Enlarged Plan
1/4" = 1'-0"

KEYED NOTES

02.01 REMOVE & DISPOSE OF EXISTING EXTERIOR WINDOW SYSTEM
02.03 REMOVE & DISPOSE OF EXISTING WALL PATCH & REPAIR ADJACENT WALLS AS REQUIRED
02.05 REMOVE & DISPOSE OF EXISTING DOOR AND FRAME
02.07 REMOVE & SALVAGE EXISTING MILLWORK, COORDINATE WITH OWNER
02.08 REMOVE & SALVAGE EXISTING ELECTRICAL FIXTURE COORDINATE WITH OWNER
02.09 REMOVE & DISPOSE OF EXISTING WALL GRAPHIC. PREP WALL FOR NEW WALL FINISH
02.10 REMOVE & DISPOSE OF EXISTING EXTERIOR WALL PATCH & REPAIR ADJACENT WALLS AS REQUIRED, COORDINATE DEMO WITH NEW FLOOR PLAN
02.11 REMOVE & SALVAGE EXISTING GLASS STOREFRONT SYSTEM AND DOOR FOR RE-USE
02.12 REMOVE, SALVAGE, AND RE-USE EXISTING DOOR COORDINATE NEW LOCATION WITH NEW PLAN
02.13 REMOVE & DISPOSE OF EXISTING GLASS VESTIBULE WALLS AND DOORS
02.14 REMOVE & DISPOSE OF EXISTING MILLWORK/COUNTERTOP
02.21 EXISTING MILLWORK LOCKERS, PROTECT AND RELOCATE TO NEW PROCTORS OFFICE
02.26 REMOVE & DISPOSE OF EXISTING FELT WALL APPLICATION
02.27 CAREFULL REMOVE & PROTECT WOOD WALL TO BE REINSTALLED AFTER SOUND ATTENUATION WALL IS INSTALLED AT CONFERENCE ROOM
03.03 NEW CONC FOUNDATION SLAB, SEE DETAILS A1,A2/AS501 RE: STRUCTURAL

GENERAL NOTES

1. ASSUME PAINT P-1 ON ALL GYP SURFACES. UNLESS OTHERWISE INDICATED.
2. SEE AE601 FOR MILLWORK DESCRIPTION AND FINISH MATERIALS
3. ALL EXPOSED MILLWORK TO MATCH THAT OF FINISH FACE.
4. ALL INTERIOR MILLWORK FINISHES TO BE WHITE MELAMINE UNLESS OTHERWISE SPECIFIED.
5. REFER TO SHEET AE603 FOR ALL INTERIOR GLAZING TYPES
6. WHERE MILLWORK SPANS GREATER THAN 10'-0", INDICATE SEAM LOCATIONS ON SHOP DRAWINGS FOR ARCHITECT APPROVAL.
7. ALL WALL OUTLETS, INCLUDING BUT NOT LIMITED TO: ELECTRICAL, DATA, KEYPADS AND LIGHT SWITCHES ARE TO BE INSTALLED LEVEL AND IN LINE WITH ALL OTHERS.
8. KEYNOTED AREA INDICATES FUTURE GRAPHIC BY OWNER. CONTRACTOR TO PROVIDE LEVEL 5 FINISH ON ALL APPLICABLE WALLS.
9. CONTRACTOR TO PROVIDE CONTINUOUS IN-WALL BLOCKING FOR ALL WALL HUNG AND FULL HEIGHT MILLWORK.

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revisions :
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title:

New South Offices Enlarged Plans

sheet:

AE404

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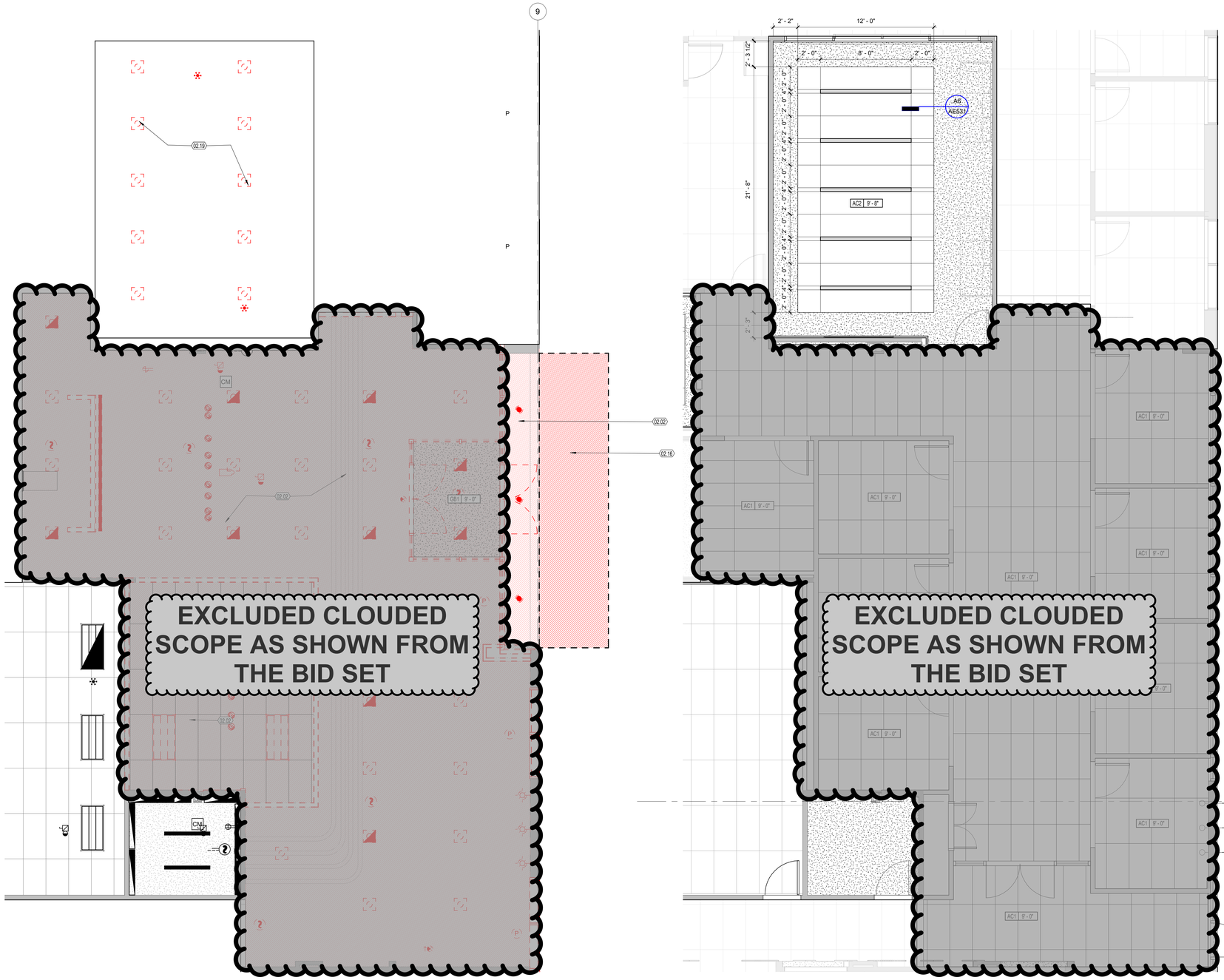

B1 Main Level New Office Enlarged RCP Demo Plan
1/4" = 1'-0"

B3 Main Level New Office Enlarged RCP
1/4" = 1'-0"

KEYED NOTES

02.02 REMOVE & DISPOSE OF EXISTING CEILING /SOFFIT
02.16 REMOVE & DISPOSE OF EXISTING EXTERIOR CANOPY SYSTEM: PATCH AND REPAIR BRICK AS NEEDED
02.19 COORDINATE WITH ELECTRICAL AND MECHANICAL PLANS TO REMOVE/DISPOSE/AND OR REUSE DIFFUSERS AND LIGHTS AS NOTED HEREIN

CEILING LEGEND

TYPE AC1 — 2' X 4' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID - **MATCH EXISTING**

TYPE AC2 — WASHABLE VINYL 2' X 2' LAY-IN ACOUSTICAL TILE IN SUSPENDED GRID

TYPE GB1 — 5/8" GYPSUM BOARD CEILING (PAINTED) ON SUPSENDED / FRAMED CEILING, BRACING AS NECESSARY

TYPE C — EXPOSED STRUCTURE

WD 01 — PANELIZED LINEAR WOOD CEILING SEE FINISH SCHEDULE

SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR MECHANICAL AND ELECTRICAL CEILING ELEMENTS

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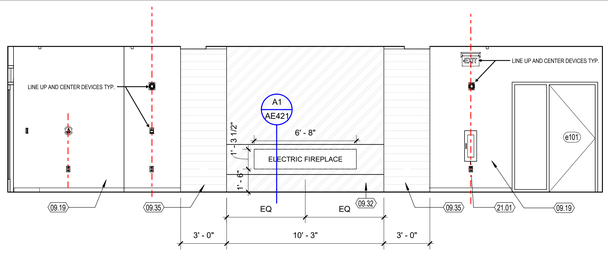
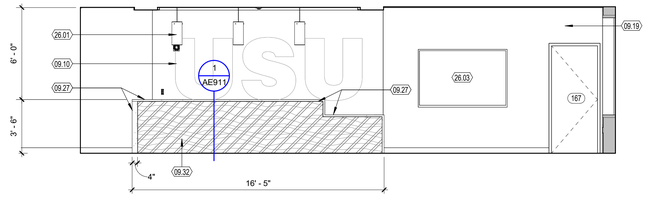
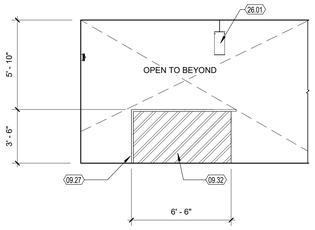


E1 EAST ENTRANCE ELEV 1 SOUTH
1/4" = 1'-0"



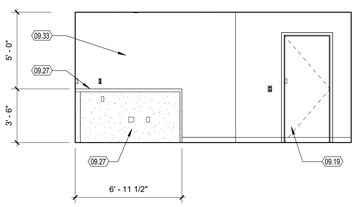
E3 EAST ENTRANCE ELEV 1 NORTH
1/4" = 1'-0"



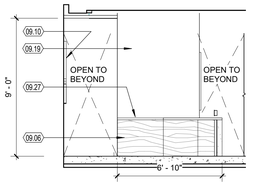
E5 EAST ENTRANCE ELEV 1 EAST
1/4" = 1'-0"

KEYED NOTES

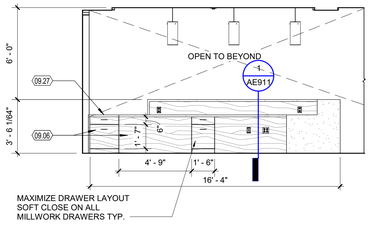
09.06 PLASTIC LAMINATE, PLAM-01; RE: FINISH SCHEDULE
09.10 RELOCATED THREE DIMENSIONAL USU SIGNAGE - REMOUNT SIGNAGE ON Z-CLIPS, ARCHITECT TO DETERMIN EXACT LOCATION OF SIGNAGE
09.19 FIELD PAINT, PNT-01; RE: FINISH SCHEDULE
09.27 QUARTZ, QTZ-01, RE: FINISH SCHEDULE
09.32 HOT ROLLED STEEL, HS-01, RE: FINISH SCHEDULE
09.33 WALLCOVERING, WC-01, RE: FINISH SCHEDULE
09.35 BOARD FORM VENEER, BF-01, RE: FINISH SCHEDULE
10.16 MILLWORK LOCKERS; SEE ELEVATIONS
21.01 FIRE EXTINGUISHER IN SEMI-RECESSED CABINET
26.01 LIGHTING FIXTURE, RE: ELECTRICAL
26.03 FLAT SCREEN DISPLAY, RE: ELECTRICAL



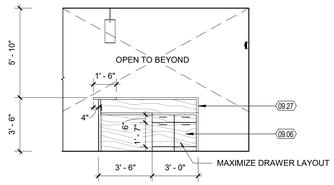
D1 EAST ENTRANCE ELEV 1 WEST
1/4" = 1'-0"



D2 EAST ENTRANCE ELEV 2 EAST
1/4" = 1'-0"



D3 EAST ENTRANCE ELEV 2 SOUTH
1/4" = 1'-0"



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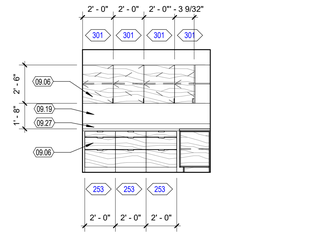
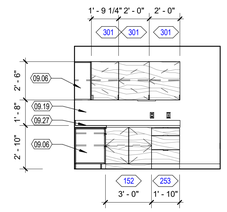
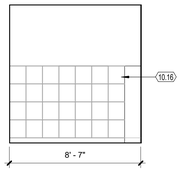


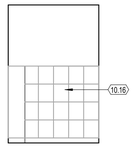
D5 EAST ENTRANCE ELEV 3 EAST
1/4" = 1'-0"



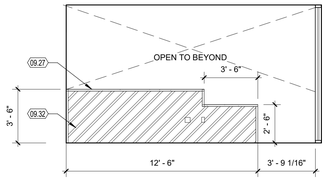
C1 EAST ENTRANCE ELEV 3 SOUTH
1/4" = 1'-0"



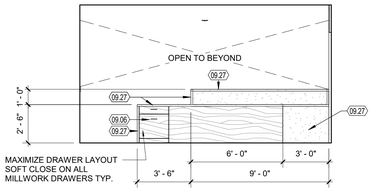
C2 PROCTORS OFFICE LOCKERS EAST
1/4" = 1'-0"



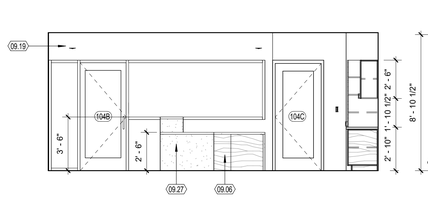
C3 PROCTORS OFFICE ELEV 1 SOUTH
1/4" = 1'-0"



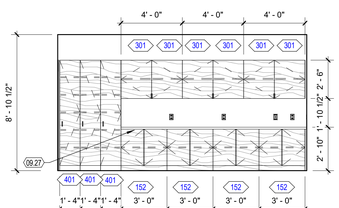
C4 PROCTORS OFFICE ELEV 1 WEST
1/4" = 1'-0"



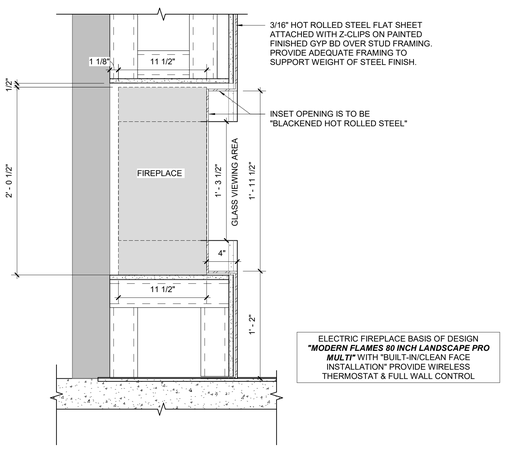
C5 PROCTORS OFFICE ELEV 2 EAST
1/4" = 1'-0"



B4 PROCTORS OFFICE ELEV 2 SOUTH
1/4" = 1'-0"



B5 PROCTORS OFFICE ELEV 2 WEST
1/4" = 1'-0"



A1 Electrica Fire Place Detail
1 1/2" = 1'-0"

GENERAL NOTES

1. ASSUME PAINT P-1 ON ALL GYP SURFACES. UNLESS OTHERWISE INDICATED.
2. SEE AE601 FOR MILLWORK DESCRIPTION AND FINISH MATERIALS
3. ALL EXPOSED MILLWORK TO MATCH THAT OF FINISH FACE.
4. ALL INTERIOR MILLWORK FINISHES TO BE WHITE MELAMINE UNLESS OTHERWISE SPECIFIED.
5. REFER TO SHEET AE603 FOR ALL INTERIOR GLAZING TYPES
6. WHERE MILLWORK SPANS GREATER THAN 10'-0", INDICATE SEAM LOCATIONS ON SHOP DRAWINGS FOR ARCHITECT APPROVAL.
7. ALL WALL OUTLETS, INCLUDING BUT NOT LIMITED TO: ELECTRICAL, DATA, KEYPADS AND LIGHT SWITCHES ARE TO BE INSTALLED LEVEL AND IN LINE WITH ALL OTHERS.
8. KEYNOTED AREA INDICATES FUTURE GRAPHIC BY OWNER. CONTRACTOR TO PROVIDE LEVEL 5 FINISH ON ALL APPLICABLE WALLS.
9. CONTRACTOR TO PROVIDE CONTINUOUS IN-WALL BLOCKING FOR ALL WALL HUNG AND FULL HEIGHT MILLWORK.

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
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project #: 20.0770
date: 05.16.2022
revisions :

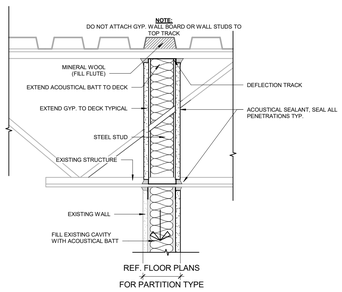
title:

INTERIOR ELEVATIONS

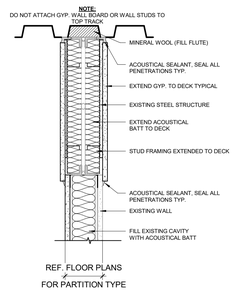
sheet:

AE421

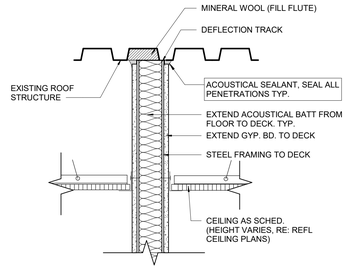
CONSTRUCTION DOCUMENTS



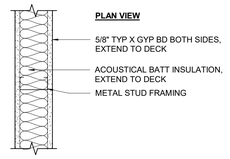
E3 WALL TO DECK AT EXISTING WALL
1 1/2" = 1'-0"



E4 WALL TO DECK AT EXISTING WALL
1 1/2" = 1'-0"



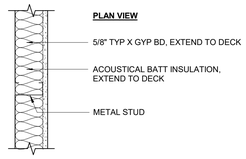
E5 TYPICAL PARTITION WALL
1 1/2" = 1'-0"



ALL PARTITION WALLS GO TO DECK U.N.O.

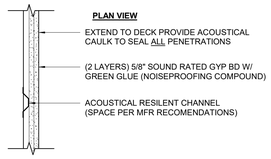
PS2	2 1/2" STEEL STUD	PS6	6" STEEL STUD
PS3	3 5/8" STEEL STUD	PS8	8" STEEL STUD

PS_ PARTITION METAL STUD WALL



PS2b	2 1/2" STEEL STUD	PS6b	6" STEEL STUD
PS3b	3 5/8" STEEL STUD		

PS_b PARTITION FURRED WALL



PS1	7/8" Resillient Channel

PS1 Sound Attenuation Wall

WALL TYPES GENERAL NOTES -

1. PLAN "AE121" SERIES FOR LOCATION OF WALL TYPES.
2. REFER TO SCHEDULES & DETAILS FOR FINISHES.
3. **ALL PARTITION WALLS GO TO DECK U.N.O. , ALL EXISTING PARTITION WALLS ARE TO BE EXTENDED TO DECK** AS SHOWN IN DETAIL HEREIN.
4. ALL GYP BOARD SHALL BE 5/8", UNLESS NOTED OTHERWISE.
5. ALL GYPSUM WALL BOARD MUST BE MOISTURE RESISTANT AT THE FOLLOWING LOCATIONS:
   a. TOILET ROOMS
   b. WET WALLS
   c. SHOWERS
   d. JANITOR'S CLOSETS
6. SOUND ATTENUATION BLANKETS SHALL EXTEND THE FULL HEIGHT OF THE WALLS FROM BASE TO DECK BEARING.
7. SPACING OF THE METAL STUDS HAS NOT BEEN INDICATED ON THE WALL TYPES OR DETAILS. STUD SPACING IS TO BE DETERMINED BY THE HEIGHT OF THE PARTITION AS SHOWN IN THE TABLE BELOW. EACH STUD GOING TO STRUCTURE AND EXCEEDING ALLOWABLE HEIGHTS SHALL BE BRACED 45 DEGREES DIAGONALLY 12" ABOVE CEILING WITH EQUAL SIZE 20 GA. METAL STUDS. THIS TABLE IS TO BE USED FOR THE INTERIOR WALL TYPES ONLY AND DOES NOT APPLY TO EXTERIOR STUDS. USE 20 GA STUDS AT ALL HEAD AND JAMB LOCATIONS.
8. REFER TO INTERIOR DETAILS FOR ADDITIONAL INFORMATION.
9. SUPPORT INSULATION WITH CHICKEN WIRE IN PARTITIONS WITHOUT GYP BOARD ON BOTH SIDES TO STRUCTURE.
10. MAINTAIN 1/2" SPACE BETWEEN FLOOR SLAB AND BOTTOM OF GYP BOARD ON ALL WALLS.
11. STOP STUD 1" BELOW METAL RUNNER (TOP TRACK) TO ALLOW FOR VERTICAL EXPANSION DO NOT ATTACH STUDS OR GYP BOARD TO TOP TRACK.

FACING ON SIDES OF STUDS	STUD SPACG ON CENTER	STUD DEPTH 2 1/2" MAX. HT.	STUD DEPTH 3 5/8" MAX. HT.	STUD DEPTH 6" MAX. HT.
1 LAYER 5/8" GYP BD - 1 SIDE ONLY	16 24	11'-0" 9'-9"	14'-6" 12'-9"	14'-6" 12'-9"
1 LAYER 5/8" GYP BD - EACH SIDE	16 24	12'-0" 10'-9"	16'-0" 13'-6"	16'-0" 13'-6"
2 LAYER 5/8" GYP BD - EACH SIDE	16 24		16'-9" 13'-6"	20'-0" 15'-0"

- HEIGHT IS DISTANCE FROM THE FLOOR TO THE STRUCTURE, NOT FLOOR TO CEILING
- BRACING AT MIDPOINT PREQUIRED FOR ALL WALLS OVER 12'-0" HIGH

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
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project#: 20.0770
date: 05.16.2022
revisions :

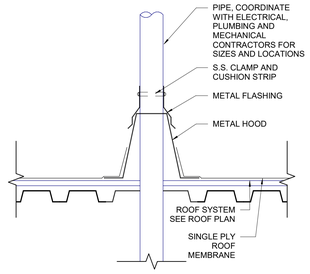
title:

PARTITION TYPE

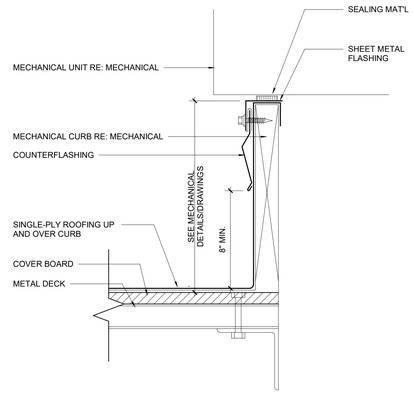
sheet:

AE501

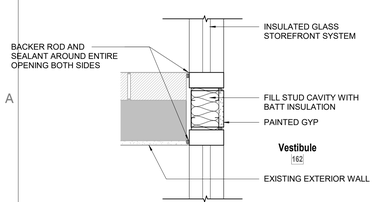
CONSTRUCTION DOCUMENTS



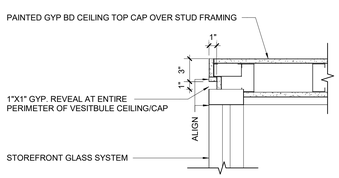
C2 Pipe Penetration Details
1 1/2" = 1'-0"



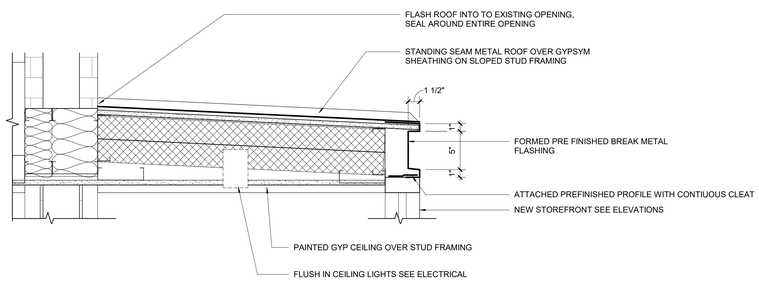
E5 CURB DETAIL
3" = 1'-0"



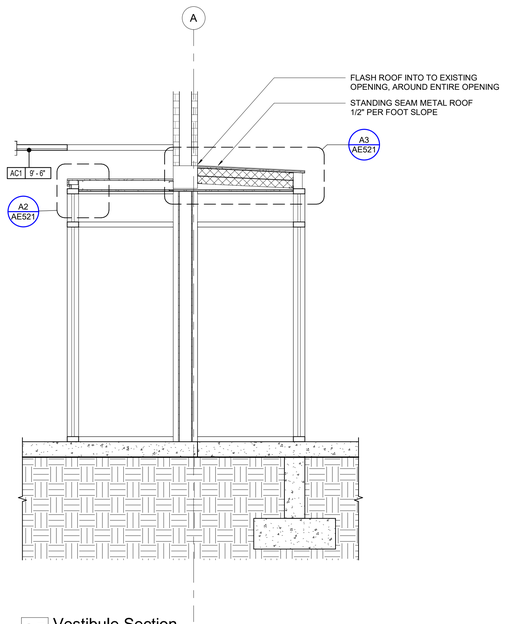
A1 Vestibule Storefront Plan Detail
1 1/2" = 1'-0"



A2 Interior Vestibule Ceiling Cap Detail
1 1/2" = 1'-0"



A3 Vestibule Roof Section Detail
1 1/2" = 1'-0"



A5 Vestibule Section
1/2" = 1'-0"

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GENERAL CONSTRUCTION DETAILS

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AE521

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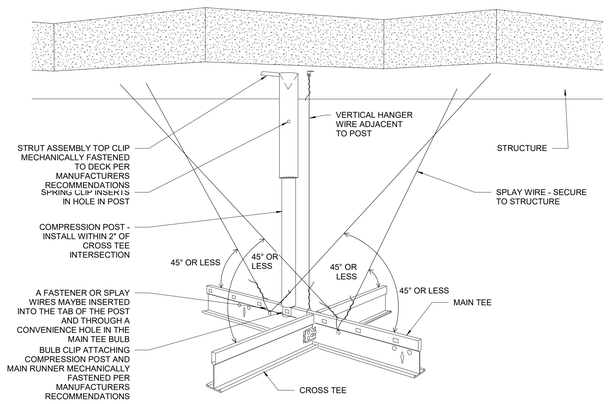


D1 TYP. SEISMIC DETAIL
1 1/2" = 1'-0"

NOTE 1 - ALL SPLAY WIRES TO BE IN LINE WITH ATTACHED COMPONENT

NOTE 2 - ALL SPLAY WIRES TO BE TAUT AND TIED BOTH ENDS WITH MINIMUM OF THREE TURNS IN 1" OF RUN.

NOTE 3 - COMPLY WITH IBC 2012, ASTM C635, ASTM C636 AND CISCA STANDARDS

NOTE 4 - SPLAY WIRES SHALL ATTACH TO STRUCTURAL GIRDER OR JOIST ONLY, DO NOT ATTACH TO ROOF DECK.

NOTE 5 - METAL COMPRESSION POST (STRUT) FASTENED TO THE MAIN RUNNER SHALL BE EXTENDED TO AND FASTENED TO THE STRUCTURAL MEMBERS SUPPORTING THE ROOF OR FLOOR ABOVE. COMPRESSION POSTS & SPLAY WIRES TO BE INSTALLED EVERY 12" O.C. BOTH DIRECTIONS STARTING 6" FROM WALL. SEE COMPRESSION POST ALLOWABLE LENGTHS TABLE FOR SIZES. SEE DETAILS FOR TYPICAL BRACING.

NOTE 6 - ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED TO THE SUSPENDED CEILING SYSTEM. WHEN INTERMEDIATE SYSTEMS ARE USED, ATTACH NO. 12 GAGE HANGERS TO THE GRID MEMBERS WITHIN 3" OF EACH CORNER OF EACH FIXTURE. LIGHT FIXTURES WEIGHING LESS THAN 56 LBS. SHALL HAVE TWO NO. 12 GAGE HANGERS CONNECTED FROM THE FIXTURE HOUSING TO THE STRUCTURE ABOVE. COMPLY WITH IBC 2012

NOTE 7 - ALL LIGHT FIXTURES SHALL BE POSITIVELY ATTACHED 20 LBS, AND SHALL BE POSITIVELY ATTACHED TO THE CEILING SUSPENSION MAIN RUNNERS. TERMINALS OR SERVICES WEIGHING 20 LBS., BUT NOT MORE THAT 56 LBS., SHALL IN ADDITION HAVE TWO NO. 12 GAGE HANGERS CONNECTED TO THE CEILING SYSTEM HANGERS OR TO THE STRUCTURE ABOVE. TERMINALS OR SERVICES WEIGHING MORE THAN 56 LBS. SHALL BE SUPPORTED DIRECTLY FROM THE STRUCTURE ABOVE BY APPROVED HANGERS. COMPLY WITH IBC 2012

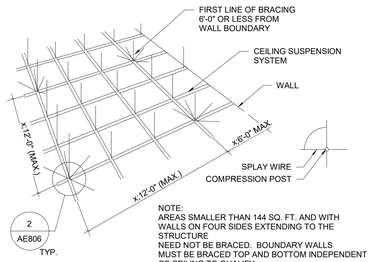
NOTE 8 - ALL GRID SYSTEM IN SEISMIC ZONE D OR GREATER ARE REQUIRED TO BE HEAVY DUTY. REFER REQUIREMENTS TO ASCE 7 REQUIREMENTS.

NOTE 9 - CEILINGS WITHOUT RIGID BRACING MUST HAVE 2" OVERSIZED TRIM RINGS FOR SPRINKLERS AND OTHER PENETRATIONS, COORDINATE WITH SPECIFICATIONS.

COMPRESSION POST ALLOWABLE LENGTHS

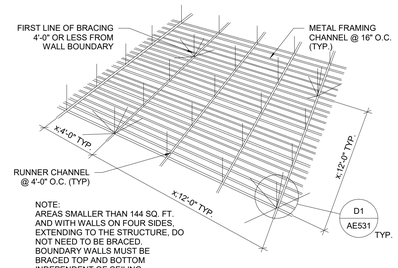
MATERIAL TABLE	TYP. ALLOWABLE LENGTH
13/16" x 13/32" STRUT 19 GA	24"
1 5/8" x 13/16" STRUT 12 GA	48"
13/16" x 13/16" STRUT 19 GA	54"
1 5/8" x 1" STRUT 12 GA	60"
3 5/8" x 1 1/4" STRUT 16 GA	82"
1 1/4" x 1 1/4" STRUT 14 GA	84"
1 5/8" x 1 3/8" STRUT 12 GA	96"
1 5/8" x 1 5/8" STRUT 12 GA	108"
1 5/8" x 2 7/16" STRUT 12 GA	120"

NOTES
1. THE INFORMATION PROVIDED IS FOR QUICK REFERENCE ONLY. OTHER RESTRICTIONS AND EXEMPTIONS MAY APPLY.
2. WALL MOLDING SHOULD NOT BE USED AS STRUTS.
3. A STRUCTURAL ENGINEER SHOULD BE CONSULTED FOR LENGTHS GREATER THAT 14'.



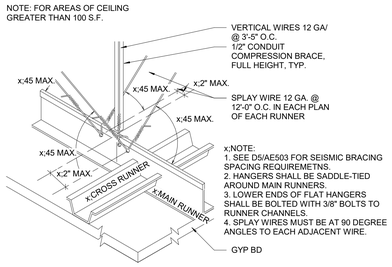
NOTE:
AREAS SMALLER THAN 144 SQ. FT. AND WITH WALLS ON FOUR SIDES EXTENDING TO THE STRUCTURE NEED NOT BE BRACED. BOUNDARY WALLS MUST BE BRACED TOP AND BOTTOM INDEPENDENT OF CEILING TO QUALIFY.

E4 SEISMIC BRACING
12" = 1'-0"



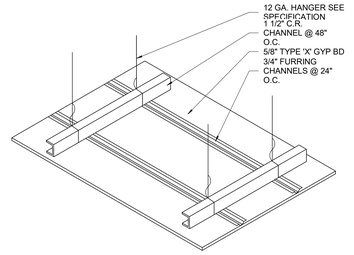
NOTE:
AREAS SMALLER THAN 144 SQ. FT. AND WITH WALLS ON FOUR SIDES, EXTENDING TO THE STRUCTURE, DO NOT NEED TO BE BRACED. BOUNDARY WALLS MUST BE BRACED TOP AND BOTTOM INDEPENDENT OF CEILING.

E6 TYP. CEILING SEISMIC BRACING GYPSUM
12" = 1'-0"



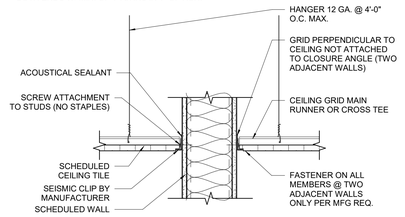
x:NOTE:
1. SEE D5/AE503 FOR SEISMIC BRACING SPACING REQUIREMETNS.
2. HANGERS SHALL BE SADDLE-TIED AROUND MAIN RUNNERS.
3. LOWER ENDS OF FLAT HANGERS SHALL BE BOLTED WITH 3/8" BOLTS TO RUNNER CHANNELS.
4. SPLAY WIRES MUST BE AT 90 DEGREE ANGLES TO EACH ADJACENT WIRE.

D3 SUSPENDED GYP CEILING DETAIL
12" = 1'-0"



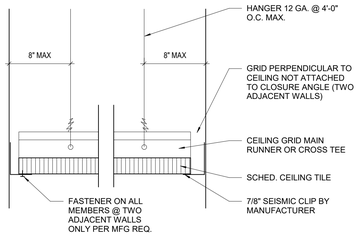
D4 TYP. Suspended Gyp. Ceiling Channels
3" = 1'-0"

NOTE 1 - ALL HANGER WIRES TO BE IN LINE WITH ATTACHED COMPONENT OR SHALL BE COUNTERSLOPED NOT GREATER THAN 1/6
NOTE 2 - ALL HANGER WIRES TO BE TAUT AND TIED BOTH ENDS W/ MIN. OF 4 TURNS IN 1" OF RUN.



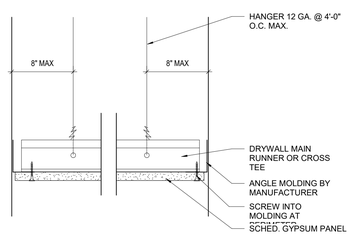
D6 ACT @ PARTITION WALL
1 1/2" = 1'-0"

NOTE 1 - ALL HANGER WIRES TO BE IN LINE WITH ATTACHED COMPONENT OR SHALL BE COUNTERSLOPED NOT GREATER THAN 1/6
NOTE 2 - ALL HANGER WIRES TO BE TAUT AND TIED BOTH ENDS W/ MIN. OF 4 TURNS IN 1" OF RUN.

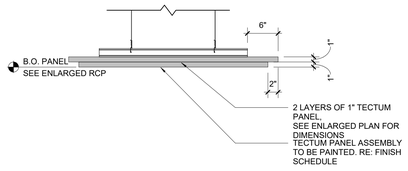


C1 Typ. Lay-In Ceiling Detail - Clip Angle
1 1/2" = 1'-0"

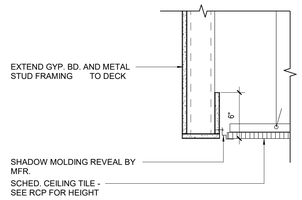
NOTE 1 - ALL HANGER WIRES TO BE IN LINE WITH ATTACHED COMPONENT OR SHALL BE COUNTERSLOPED NOT GREATER THAN 1/6
NOTE 2 - ALL HANGER WIRES TO BE TAUT AND TIED BOTH ENDS W/ MIN. OF 4 TURNS IN 1" OF RUN.



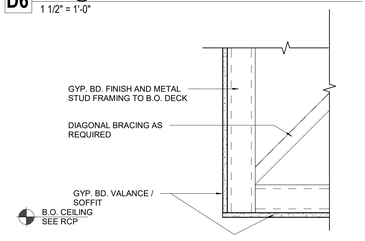
C2 TYP. SUSP. GYP. BD. CEILING -CLIP ANGLE
1 1/2" = 1'-0"



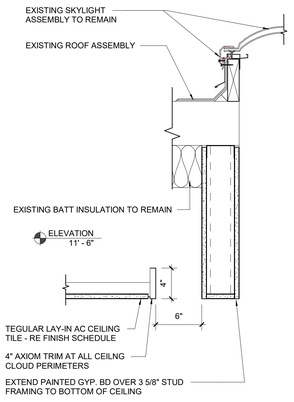
C3 CEILING HEX DETAIL
1" = 1'-0"



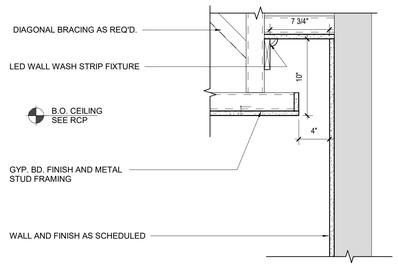
C5 GYP HEADER TO ACT
1 1/2" = 1'-0"



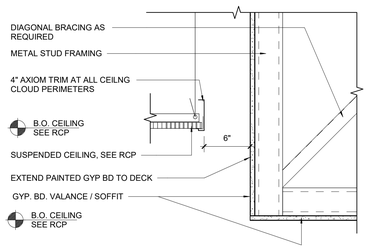
C6 GYP. BD. VALANCE DETAIL
1 1/2" = 1'-0"



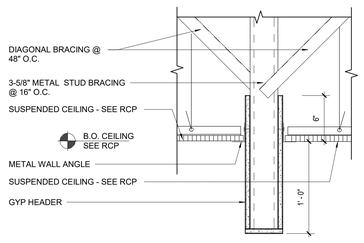
B1 Skylight Detail
1 1/2" = 1'-0"



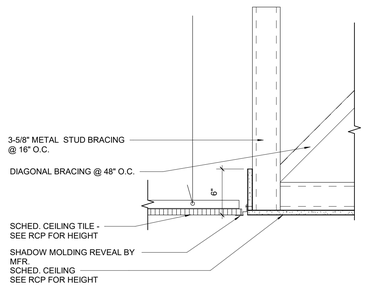
B2 WALL WASH DETAIL @ DIMENSIONAL LETTERING
1 1/2" = 1'-0"



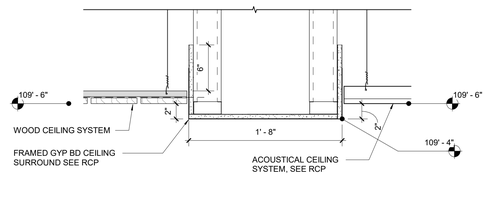
B3 Ceiling Detail - ACT & Gyp Soffit
1 1/2" = 1'-0"



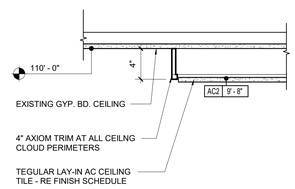
B4 GYP HEADER @ ACT
1 1/2" = 1'-0"



B6 Ceiling Detail - ACT & Gyp W/ Reveal
1 1/2" = 1'-0"



A4 Ceiling Detail
1 1/2" = 1'-0"



A6 Ceiling Cloud Edge Detail
1 1/2" = 1'-0"

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salt lake city, utah 84101
801 532 4422

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
revisions :

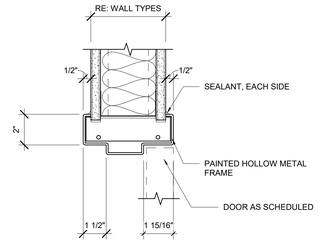
title:

CEILING DETAILS

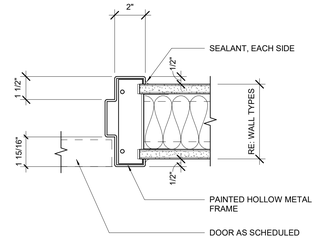
sheet:

AE531

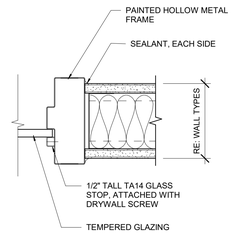
CONSTRUCTION DOCUMENTS



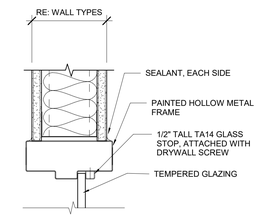
E1 HM HEAD DETAIL @ INTERIOR
3" = 1'-0"



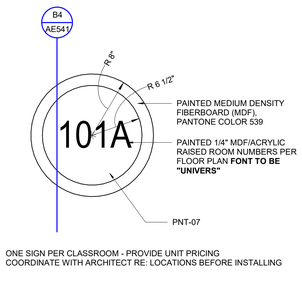
D1 HM JAMB DETAIL @ INTERIOR
3" = 1'-0"



C3 HM Glass jamb Detail
3" = 1'-0"

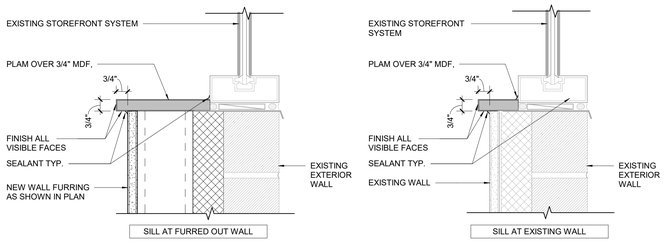


C4 HM Glass Head Detail
3" = 1'-0"

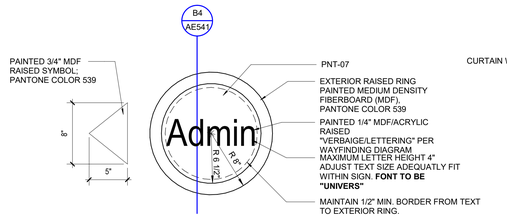


B3 SIGNAGE DETAIL - TYPE B
1 1/2" = 1'-0"

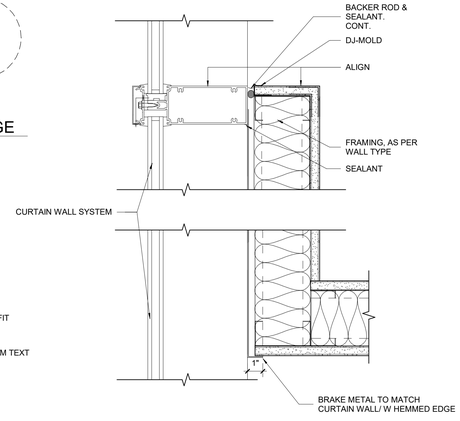
B4 WAYFINDING SIGNAGE
1 1/2" = 1'-0"



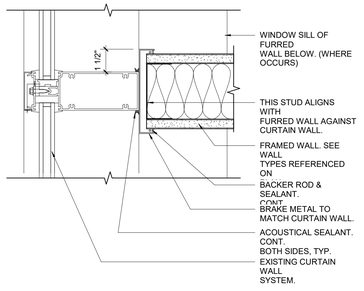
A1 Window Sill Detail
3" = 1'-0"



A3 SIGNAGE DETAIL - TYPE A
1 1/2" = 1'-0"



A4 WALL TO MULLION
3" = 1'-0"



A6 Storefront Glazing to Wall Transition Detail
3" = 1'-0"

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801 532 4422

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project #: 20.0770
date: 05.16.2022
revisions :

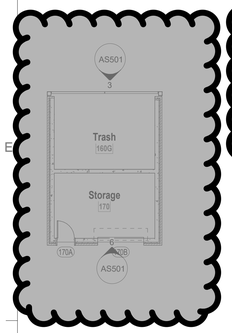
title:

Details

sheet:

AE541

CONSTRUCTION DOCUMENTS



EXCLUDED CLOUDED SCOPE AS SHOWN FROM THE BID SET

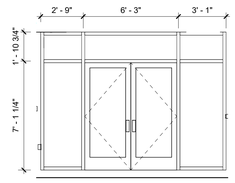


EXCLUDED CLOUDED SCOPE AS SHOWN FROM THE BID SET

DOOR NEW SCHEDULE

Number	Door Dimensions WD	HGT	THK	Door Type	Door Material	Frame Material	COMMENTS	Fire Rating
100A	3' - 0"	7' - 0"	1 3/4"	D1	Solid Core Wood	Hollow Metal	Office Function	None
100B	3' - 0"	7' - 0"	1 3/4"	D1	Solid Core Wood	Hollow Metal	Office Function	None
100C	3' - 0"	7' - 0"	1 3/4"	D1	Solid Core Wood	Hollow Metal	Office Function	None
100D	3' - 0"	7' - 0"	1 3/4"	D1	Solid Core Wood	Hollow Metal	Office Function	None
100E	3' - 0"	7' - 0"	1 3/4"	D1	Solid Core Wood	Hollow Metal	Office Function	None
100F	3' - 0"	7' - 0"	1 3/4"	D1	Solid Core Wood	Hollow Metal	Office Function	None
100G	3' - 0"	7' - 0"	1 3/4"	D1	Solid Core Wood	Hollow Metal	Office Function	None
100H	3' - 0"	7' - 0"	1 3/4"	D1	Solid Core Wood	Hollow Metal	Office Function	None
100J	6' - 0"	7' - 0"	1 3/4"	D3	Aluminum (Drk Bnz)	Alum Storefront	Office Entrance - Access Controls	None
100K	3' - 0"	7' - 0"	1 3/4"	D1	Solid Core Wood	Hollow Metal	Storage	None
104A	3' - 0"	7' - 0"	2"	D2	Aluminum (Drk Bnz)	Alum Storefront	Testing Center Entrance	None
104B	3' - 0"	7' - 1"	2"	D2	Aluminum (Drk Bnz)	Alum Storefront	Testing Center Entrance	None
104C	3' - 0"	7' - 0"	1 3/4"	D2	Solid Core Wood	Hollow Metal	Testing Center Entrance	None
104D	3' - 0"	7' - 0"	1 3/4"	D1	Solid Core Wood	Hollow Metal	Testing Center Entrance	None
104E	3' - 0"	7' - 0"	1 3/4"	D1	Solid Core Wood	Hollow Metal	Testing Center Entrance	None
160E	3' - 0"	7' - 0"	2"	D4	Aluminum (Drk Bnz)	Alum Storefront	Exterior Door - Access Controls	None
162A	6' - 0"	7' - 0"	1 3/4"	D3	Aluminum (Drk Bnz)	Alum Storefront	New Vesibule Interior Door	None
162B	6' - 0"	7' - 0"	1 3/4"	D3	Aluminum (Drk Bnz)	Alum Storefront	New Vesitbule Exterior Door - Access Controls	None
163	3' - 0"	7' - 0"	1 3/4"	D1	Solid Core Wood	Hollow Metal	Storage	None
167	3' - 0"	7' - 0"	1 3/4"	D1	Solid Core Wood	Hollow Metal	Storage	None
170A	3' - 0"	7' - 0"	1 3/4"	D6	Hollow Metal	Hollow Metal	Exterior Insulated Storage Unit Door	None
170B	8' - 0"	7' - 0"	2"	D7	Aluminum		Exterior Insulated Storage Unit Overhead Door	None
e101	3' - 0"	7' - 0"	1 3/4"	D1		Hollow Metal	Existing Door - Access Controls	None
Grand total: 23								

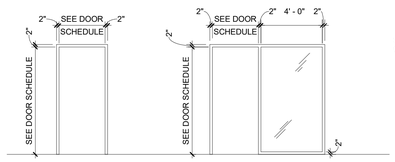
C1 Door Schedule Floor Plan
3/32" = 1'-0"



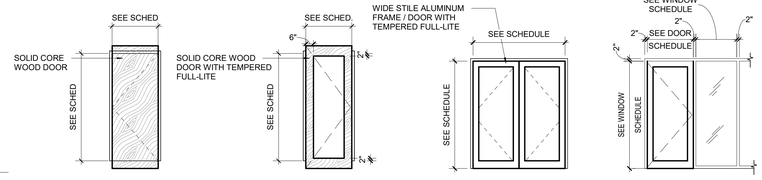
B1 New Office Interior Glass
1/4" = 1'-0"

GLAZING NOTES

1. ALL GLAZING IS TO BE TEMPERED GLASS TO MATCH EXISTING
2. ALL EXTERIOR GLASS TO BE 1" IGU TEMPERED TO MATCH EXISTING

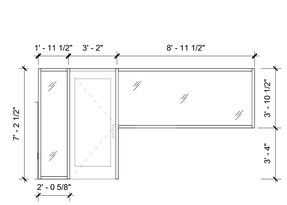


F1 F2

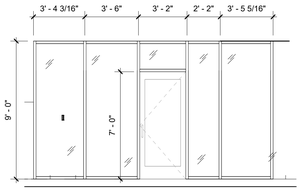


D1 WOOD
D2 WOOD
D3 ALUMINUM STOREFRONT
D4 ALUMINUM STOREFRONT

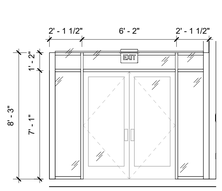
B3 Frame & Door Types
1/4" = 1'-0"



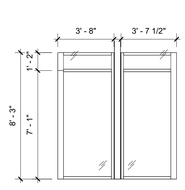
A1 Proctors Office View Glazing
1/4" = 1'-0"



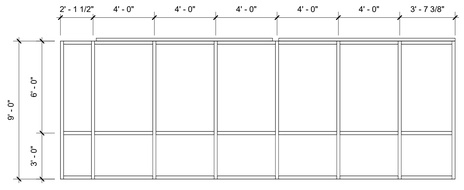
A2 Testing Center Entrance Glazing
1/4" = 1'-0"



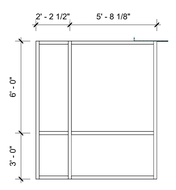
A3 Vestibule Entrance Glazing
1/4" = 1'-0"



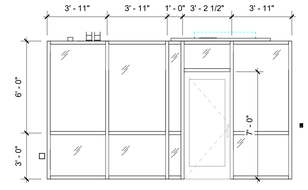
A4 Vestibule Side Glazing
1/4" = 1'-0"



A5 New Office Exterior Glazing A
1/4" = 1'-0"



A6 New Office Exterior Glazing B
1/4" = 1'-0"



A7 New Office Exterior Glazing C
1/4" = 1'-0"

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360 west aspen avenue
salt lake city, utah 84101
801 532 4422

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project:
USU Salt Lake East Entrance Remodel

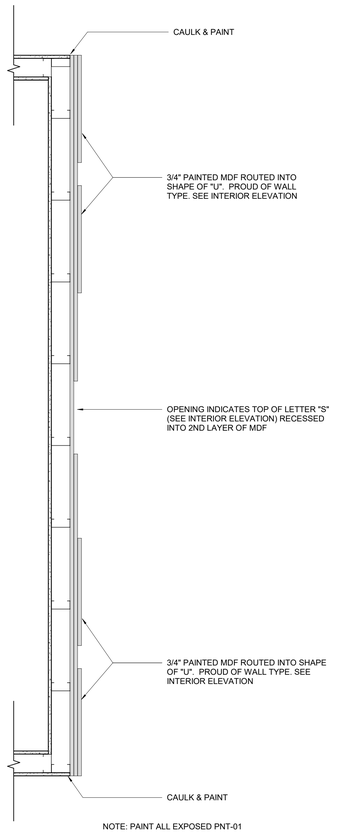
920 W Levoy Dr,
Taylorsville, UT 84123

project #: 20.0770
date: 05.16.2022
revisions :
1

title:
Door & Window Schedule

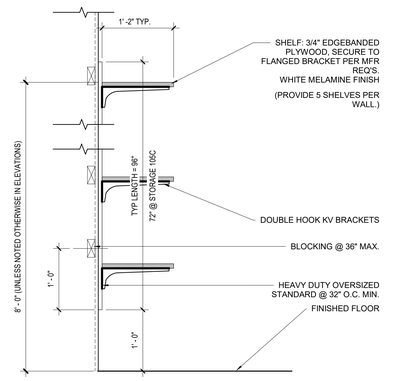
sheet:
AE601

CONSTRUCTION DOCUMENTS

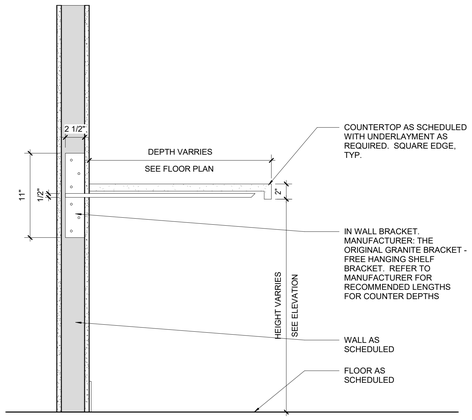


NOTE: PAINT ALL EXPOSED PNT-01

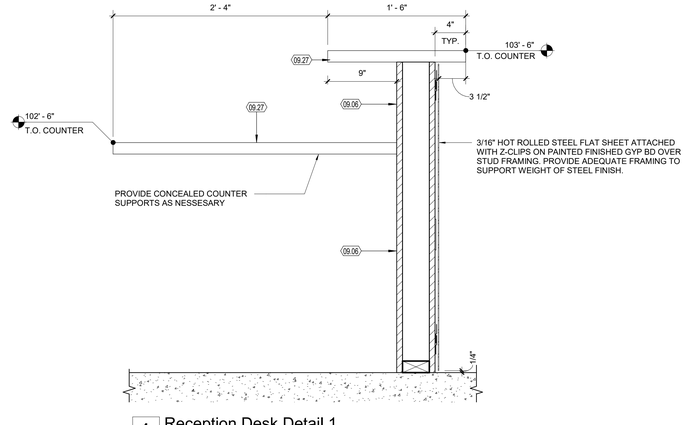
A1 DIMENSIONAL TEXT
1" = 1'-0"



D3 ADJUSTABLE SHELVING DETAIL
1" = 1'-0"



C5 FLOATING COUNTERTOP DETAIL
1 1/2" = 1'-0"



1 Reception Desk Detail 1
1 1/2" = 1'-0"

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project:
USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
revisions :

title:
INTERIOR DETAILS - MILLWORK

sheet:
AE911

CONSTRUCTION DOCUMENTS

FLOOR FINISH LEGEND

CODE	MATERIAL
CPT-01	CARPET TILE
CPT-02	NOT USED
CPT-03	CARPET TILE
EM-01	ENTRY MAT CARPET TILE
LVT-01	LUXURY VINYL TILE
TS-1 - TS-8	TRANSITION STRIPS

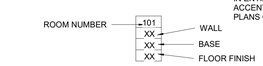
* MULTIPLE WALL FINISHES, SEE ELEVATIONS FOR DESIGNATIONS.
** MULTIPLE FLOOR FINISHES, SEE ENLARGED PLAN FOR DESIGNATIONS.
*** REFERENCE FINISH SCHEDULE FOR WALL AND BASE SPECIFICATIONS.

LEVEL 5 FINISH TAG

NOTE: HEAVY DASHED LINE REPRESENTS AREA OF VINYL WALL GRAPHIC TO BE INSTALLED AT A LATER TIME . LEVEL 5 FINISH REQUIRED AT THESE WALLS. SEE ELEVATIONS FOR PLACEMENT & DIMENSIONS.

TYP. ROOM FINISH TAG

NOTE: INDICATES MAIN FIELD FINISH; ASSUME THIS FINISH IN ENTIRE AREA UNLESS AN ACCENT IS CALLED OUT IN PLANS OR ELEVATION

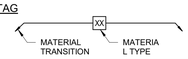


TRANSITION STRIP TAG



NOTE: REFERENCE FINISH SCHEDULE FOR TRANSITION TYPES

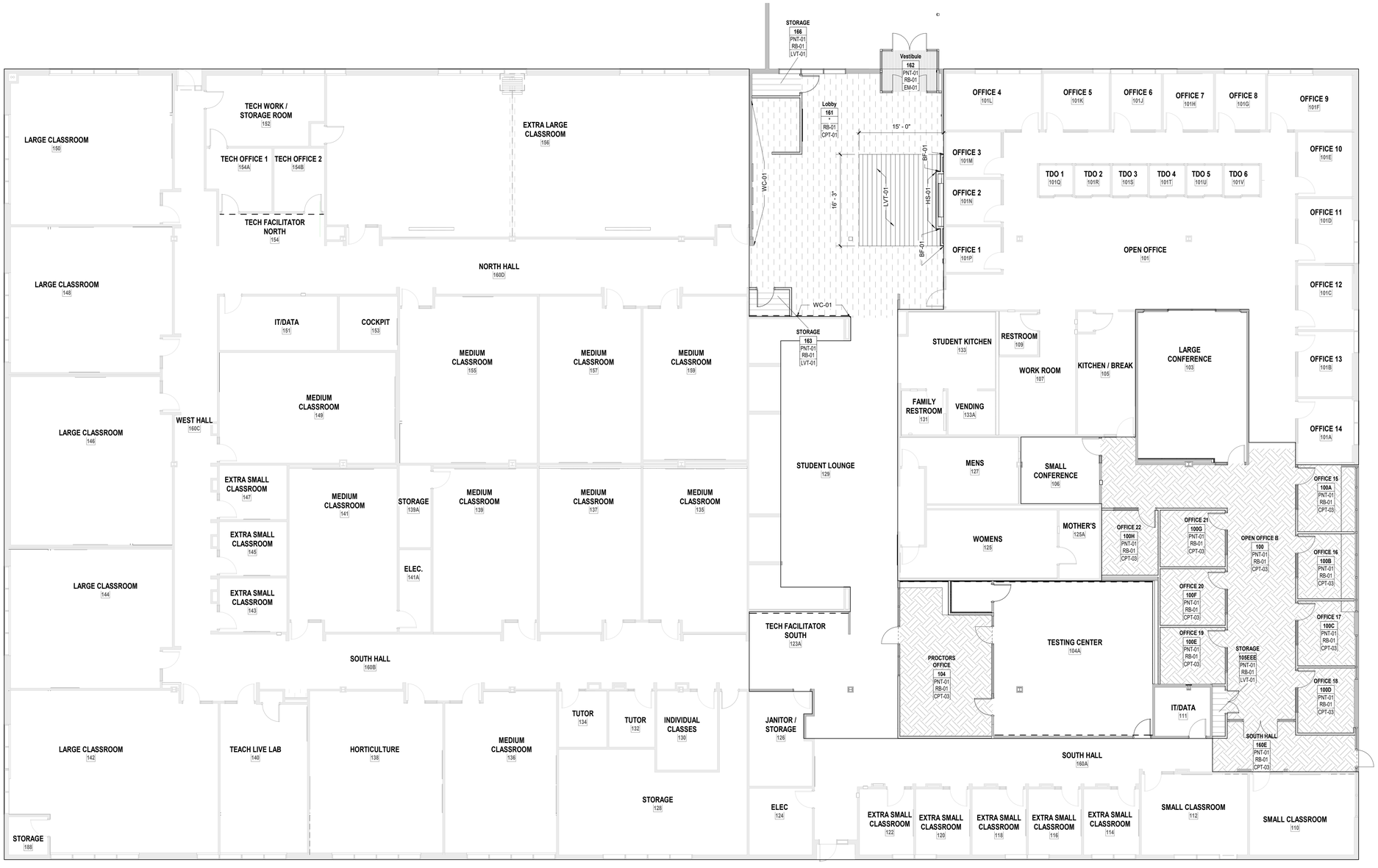
ACCENT TAG



GENERAL NOTES - FINISH PLAN

1. SEE FLOOR PLANS FOR INTERIOR ELEVATIONS
2. ALL METAL STUDS WALLS TO DECK ABOVE, SEE SHEET AE501 FOR WALL TYPES
3. ALL MATERIALS TO BE INSTALLED PER SPECEFIC MANUFACTURER'S INSTALLATION RECOMMENDATION
4. FLOORING MATERIAL TRANSITIONS TO OCCUR AT CENTER LINE OF DOOR THRESHOLDS, U.N.O.
5. PREPARE FLOORS/WALLS TO RECIEVE FINISH MATERIAL. REFER TO MANUFACTURER'S RECCOMENDATIONS.
6. REFER TO ROOM FINISH SCHEDULE AND MATERIAL LEGEND ON SHEET AF107.
7. CONTRACTOR TO PROVIDE SOLID BLOCKING AT ALL MILLWORK, FIXED FURNISHINGS & EQUIPMENT.

KEYED NOTES



A1 MAIN LEVEL FINISH PLAN
1/8" = 1'-0"

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date: 05.16.2022
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title:

FINISH FLOOR PLAN

sheet:

AF107

CONSTRUCTION DOCUMENTS

FINISH LEGEND							
Finish Location	Finish Type	Code	Manufacturer	Product Name/ Number	Color/ Finish	Size	Comments
RUBBER BASE							
BASE	RUBBER BASE	RB-01	Johnsonite	Traditional Vinyl Wall Base	50 White W	2.5" Toeless	Typical Rubber Base. See Floor Finish Plans For Locations.
BASE	RUBBER BASE	RB-02	Johnsonite	Traditional Vinyl Wall Base	71 Storm Cloud CG	2.5" Toeless	Accent Base. See Floor Finish Plans For Locations.
ACOUSTICAL CEILING PANEL							
CEILING	ACOUSTICAL CEILING PANEL	AC2	Armstrong	Lyra Vector	White	24" x 96"	RE: RCP for locations - 15/16" White grid system. Installed per manf. Recommendations. - Cut to Fit New Grid Layout
CEILING	ACOUSTICAL CEILING PANEL	AC1	ROCKFON	Rockfon Artic tegular edge		24"x48"	Match Existing
PAINT							
CEILING	PAINT	GYP CEILING	Sherwin Williams	SW 7005	Pure White / Flat Finish	n/a	General Ceiling Paint + Exposed Ceiling Paint - Level 1 Finish. See RCP for locations.
WOOD							
CEILING	WOOD	WD1	9Wood	2100 Panelized Linear	Coordinate with Architect	SEE SPEC	See RCP for location. Install per manuf. recommendations. See spec for more info.
CARPET							
FLOOR	CARPET	CPT-01	Flor	Down To Earth 21-1402-05	Stone	19.7" x 19.7" (50cm x 50cm)	Installation pattern: Ashlar; See manufacturer's instructions for installation methods. RE: Finish plans for location
FLOOR	CARPET	CPT-03	Flor	Tuxedo Pocket	Peat	19.7" x 19.7" (50cm x 50cm)	Installation pattern: Ashlar; See manufacturer's instructions for installation methods. RE: Finish plans for location
ENTRY MAT CARPET TILE							
FLOOR	ENTRY MAT CARPET TILE	EM-01	Shaw	Welcome II Tile 5T031	Charcoal	24" x 24"	Installation Pattern: Monolithic; See manufacturer's instruction methods. RE: Finish plans for location
TRANSITION STRIP							
FLOOR	TRANSITION STRIP	TS-02	Schluter	Schiene	Satin Aluminum		LVT o Carpet. Sub to confirm size with material thickness. Installation: Refer to manufacture's specifications.
LUXURY VINYL TILE							
FLOOR	LUXURY VINYL TILE	LVT-01	Interface	Textured Woodgrains Level Set	Antique Light Oak A00406	9.845" x 39.38" (25cm x 1m)	Installation pattern: Ashlar; See manufacturer's instructions for installation methods. RE: Finish plans for location
PLASTIC LAMINATE							
MILLWORK	PLASTIC LAMINATE	PLAM-01	Wilsonart	Fawn Cypress	8208K-16 Casual Rustic Finish	n/a	AEON Scratch Resistance
MILLWORK	PLASTIC LAMINATE	PLAM-02	Wilsonart	Nevemar	Chalk White S7024T	n/a	
QUARTZ							
MILLWORK	QUARTZ	QTZ-01	Pental Quartz	Cascade White Polished BQ201P	Polished	3/4" slab thickness	See elevation for location
WALL GRAPHIC							
WALLCOVERING	WALL GRAPHIC	WC-01		COORDINATE WITH ARCHITECT			@Reception, See Interior Elevations For Locations.
BOARD FORM TILE VENEER							
WALLS	BOARD FORM TILE VENEER	BF-01	2STONE	RED STAG MODERNE	STANDARD GREY	72" X 6" X 1/2"	@Reception Fireplace. Installed Per Manuf. Recommendations.
HOT ROLLED STEEL							
WALLS	HOT ROLLED STEEL	HS-01		SAMPLE TO BE APPROVED BY ARCHITECT			See Finish Floor Plan and Interior Elevations For Locations
PAINT							
WALLS	PAINT	PNT-01	Sherwin Williams	SW 7005	Pure White / Satin Finish	n/a	General Paint - Level 3 finish. See Floor Finish Plans for locations.

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Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
revisions :

title:

FINISH SCHEDULE

sheet:

AF601

CONSTRUCTION DOCUMENTS

ABBREVIATIONS

ADS	AIR & DIRT SEPARATOR
AH	AIR HANDLER
AS	AIR SEPARATOR
B	BOILER
BPH	BRAKE HORSE POWER
CA	COMBUSTION AIR, COMPRESSED AIR
CFM	CUBIC FEET PER MINUTE
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CV	CONTROL VALVE
ET	EXPANSION TANK
FT	FEET
GAL	GALLONS
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
HWR	HEATING WATER RETURN
HWS	HEATING WATER SUPPLY
HX	HEAT EXCHANGER
IN	INCHES
P	PUMP
PPG	PROPYLENE GLYCOL
PSI	POUNDS PER SQUARE INCH
RPM	REVOLUTIONS PER MINUTE
VOLT/PH	VOLTAGE / PHASE
W.G.	WATER GAUGE

SHEET INDEX

#	SHEET NAME
MH001	INDEX, GEN NOTES, & ABBREV
MD101	MECHANICAL DEMO FLOOR PLAN
MD102	MECHANICAL DEMO ROOF PLAN
MH101	MECHANICAL REMODEL FLOOR PLAN
MH102	MECHANICAL REMODEL ROOF PLAN
MH601	SCHEDULES AND DETAILS
MH701	MECHANICAL SCHEMATICS
MP101	MECH. PIPING REMODEL FLOOR PLAN
PL101	PLUMBING REMODEL FLOOR PLAN

GENERAL NOTES

A. PROVIDE A COMPLETE OPERATING SYSTEM ON COMPLETION OF THIS PROJECT. INSTALL EQUIPMENT PER THE MANUFACTURER'S REQUIREMENTS AND THE REQUIREMENTS OF THESE DOCUMENTS. SCOPE OF WORK REQUIRED TO MEET THE INSTALLATION REQUIREMENTS ARE TO BE PART OF THE WORK OF THIS CONTRACT WHETHER OR NOT THEY ARE SPECIFICALLY SHOWN ON THESE CONTRACT DOCUMENTS.

B. PROVIDE A ONE YEAR WARRANTY ON ALL LABOR AND MATERIAL PROVIDED FOR THIS PROJECT.

C. PROVIDE FACTORY STARTUP SERVICES ON ALL EQUIPMENT. TRAIN OWNER'S MAINTENANCE STAFF ON THE OPERATION AND MAINTENANCE ONCE SYSTEM ARE STARTED.

D. PROVIDE SCHEDULE 40 BLACK STEEL CONFORMING TO ASTM A53 WITH BLACK MALLEABLE THREADED FITTINGS, FOR GAS PIPING. PAINT GAS PIPE WHERE EXPOSED TO WEATHER. PROVIDE TYPE L COPPER PIPING FOR WATER PIPING. PROVIDE SOLID CORE DWV PVC FOR BELOW GRADE WASTE PIPING. PROVIDE CAST IRON WITH NO-HUB FITTINGS FOR VENT PIPING.

E. PROVIDE PIPE SUPPORTS A MAXIMUM OF 12' APART. PROVIDE SUPPORTS NEXT TO EACH ELBOW AND NEXT TO EQUIPMENT.

F. PROVIDE PIPE INSULATION ON ALL NEW PIPE. PIPE LARGER THAN 1-1/2" SHALL HAVE 1-1/2" INSULATION. PIPE SMALLER THAN 1-1/2" SHALL HAVE 1" INSULATION. PROVIDE LABELS ON INSULATION EVERY 20'.

G. CONSTRUCT ALL DUCT ACCORDING TO SMACNA REQUIREMENTS. CONSTRUCT DUCT UPSTREAM OF VAV BOXES TO 3" PRESSURE CLASS REQUIREMENTS. CONSTRUCT DUCT DOWNSTREAM OF VAV BOXES TO 1" PRESSURE CLASS REQUIREMENTS. SEAL ALL DUCT JOINTS.

H. BOILER VENT SHALL BE AL 29-4C STAINLESS STEEL OR POLYPROPYLENE SYSTEM LISTED FOR USE WITH CATEGORY IV APPLIANCES. INSTALL PER MANUFACTURER'S INSTRUCTIONS.

I. PROVIDE 1" DUCT LINER FOR ALL RECTANGULAR DUCTWORK DOWNSTREAM OF VAV BOXES AND FOR EXHAUST DUCT FOR 20' UPSTREAM OF EXHAUST FAN.

J. AT COMPLETION OF PIPING, FLUSH ALL NEW PIPES PER INSTRUCTIONS OF CHEMICAL TREATMENT PROVIDER. CHEMICAL TREATMENT PROVIDER WILL CIRCULATE CLEANER THROUGH THE PIPING AND FLUSH PRIOR TO FILLING PIPES WITH TREATED WATER OR GLYCOL SOLUTION.

K. PRESSURE TEST THE HEATING WATER LOOP AT 75 PSI FOR 4 HOURS.

L. PROVIDE CONTROLS GRAPHIC SUMMARY PAGES FOR EACH MECHANICAL SYSTEM. COORDINATE DESIGN AND LAYOUT OF THE GRAPHICS PAGE WITH THE OWNER.

M. PROVIDE TEST AND BALANCE SERVICES TO SET ALL FLOWS AT THE DESIGN FLOWS INDICATED ON THESE DOCUMENTS.

N. PROVIDE SUBMITTALS FOR ALL EQUIPMENT LISTED ON THE SCHEDULE SHEETS.

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USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
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project#: 20.0770
date: 05.09.2022

revisions :

title:

INDEX, GEN NOTES, & ABBREV

sheet:

MH001

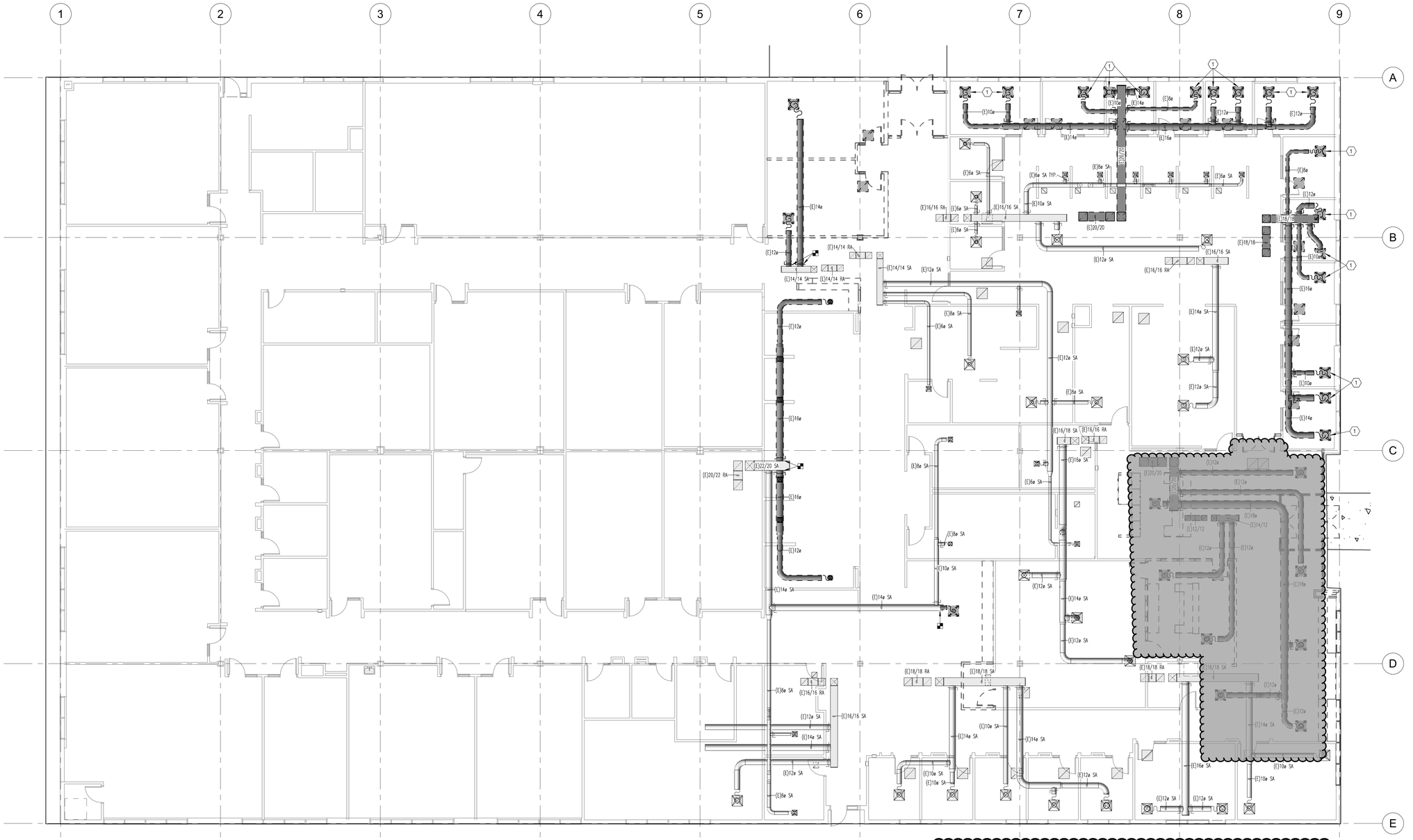
CONSTRUCTION DOCUMENT
REVIEW SET

DEMOLITION GENERAL NOTES

A. ALL ITEMS SHOWN LIGHT ARE EXISTING. ALL ITEMS SHOWN DARK AND DASHED ARE TO BE DEMOLISHED.

KEYED NOTES

1 SALVAGE EXISTING DIFFUSER AND RETURN TO OWNER.



1 MECHANICAL DEMOLITION FLOOR PLAN
SCALE: 1/8" = 1'-0"

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revisions :

title:

MECHANICAL DEMO FLOOR PLAN

sheet:

MD101

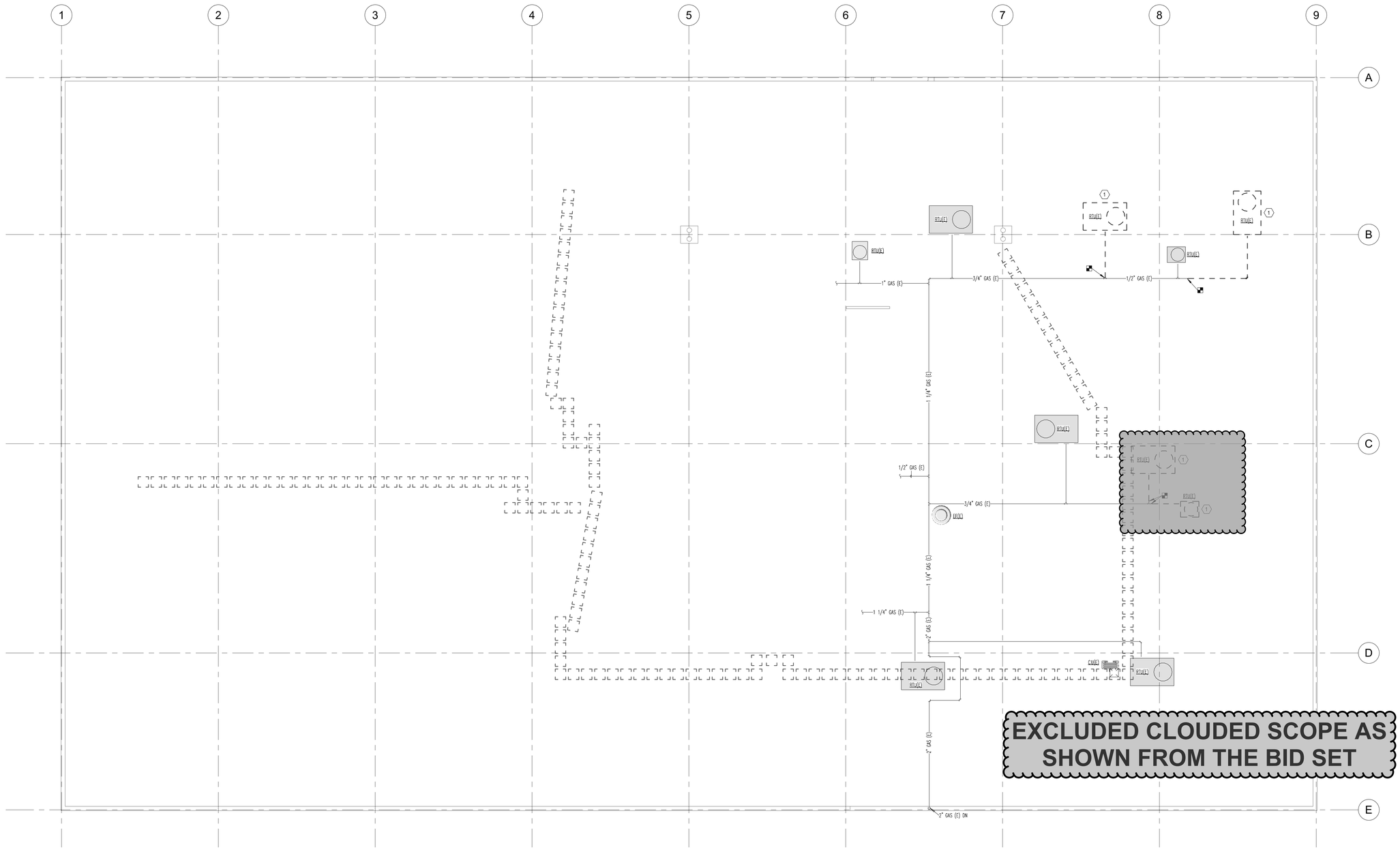
CONSTRUCTION DOCUMENT REVIEW SET

DEMOLITION GENERAL NOTES

A. ALL ITEMS SHOWN LIGHT ARE EXISTING, ALL ITEMS SHOWN DARK AND DASHED ARE TO BE DEMOLISHED.

KEYED NOTES

1 REMOVE UNITS FROM ROOF AND TURN OVER TO OWNER FOR SALVAGE. INFILL ROOF OPENINGS AND REPAIR ROOFING.



1 MECHANICAL DEMOLITION ROOF PLAN

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

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title:
MECHANICAL DEMO ROOF PLAN

sheet:
MD102

CONSTRUCTION DOCUMENT
REVIEW SET

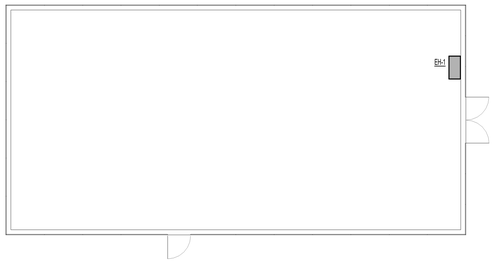
GENERAL NOTES

A. GENERAL NOTES

KEYED NOTES

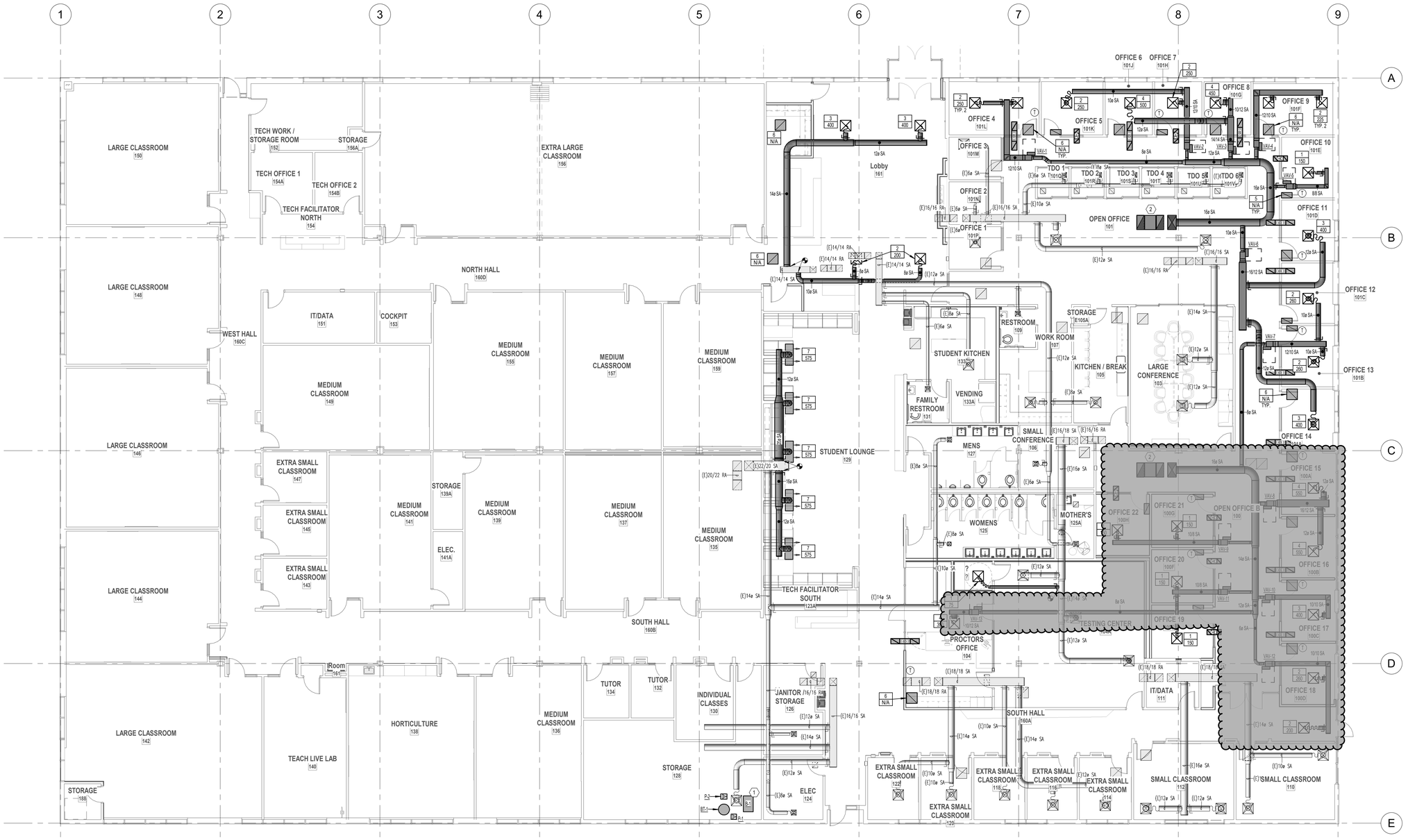
1 ROUTE BOILER FLUE AND COMBUSTION AIR DUCTING THROUGH ROOF. TERMINATE WITH CONCENTRIC VENT KIT.

2 PROVIDE SOUND BOOT ON RETURN AIR INLET OF THE ROOF TOP UNIT.



2 MECHANICAL SHED FLOOR PLAN

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



1 MECHANICAL REMODEL FLOOR PLAN

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

EXCLUDED CLOUDED SCOPE AS SHOWN FROM THE BID SET

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MECHANICAL REMODEL FLOOR PLAN

sheet:

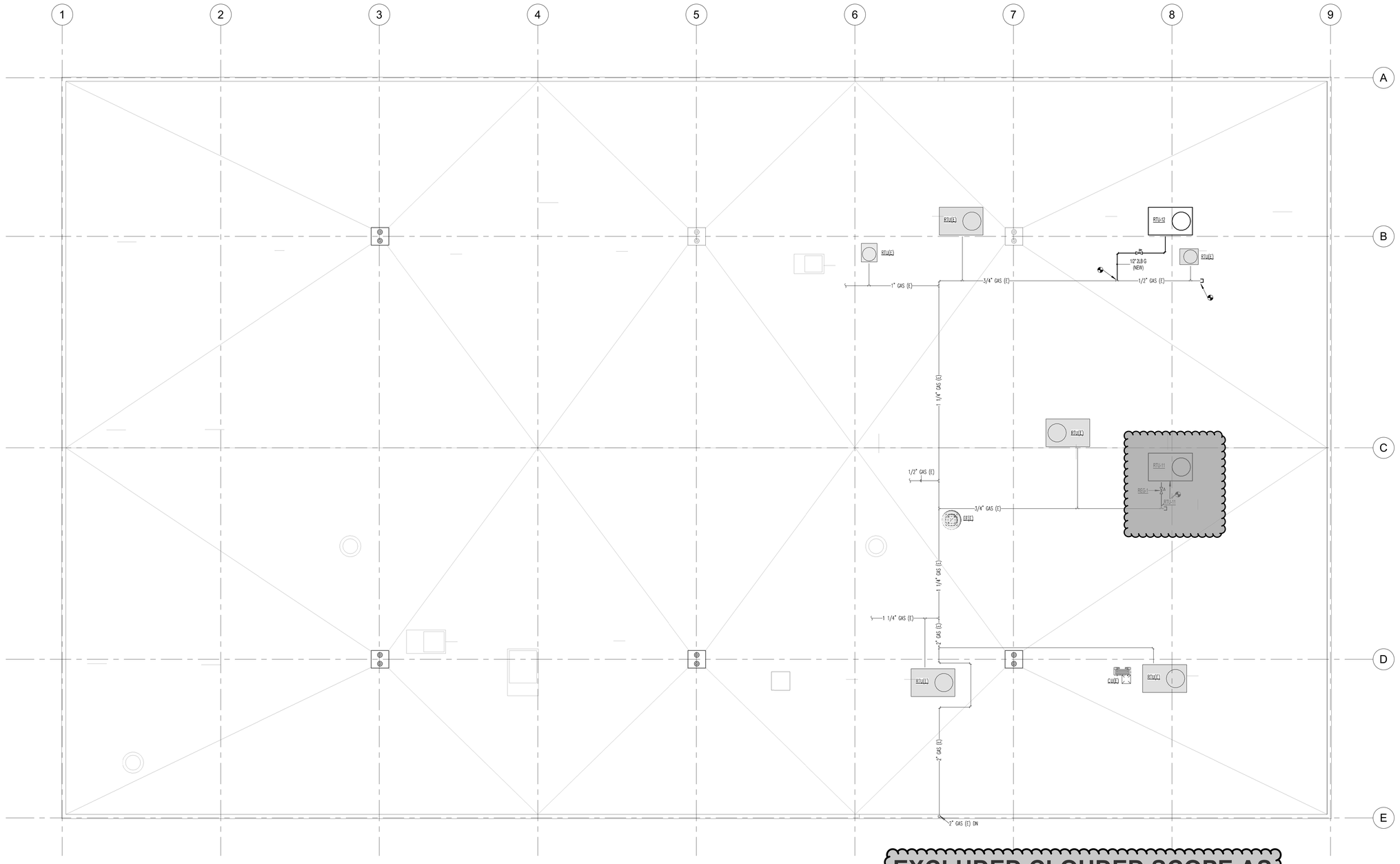
MH101

CONSTRUCTION DOCUMENT
REVIEW SET

GENERAL NOTES

A. GENERAL NOTES

KEYED NOTES



1 MECHANICAL REMODEL ROOF PLAN

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

0' 2' 4' 8' 16'

EXCLUDED CLOUDED SCOPE AS SHOWN FROM THE BID SET

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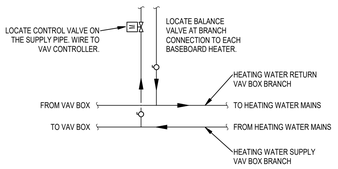
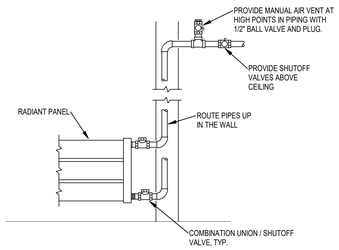


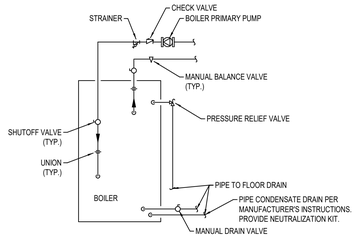
1 BASEBOARD HEATER BRANCH PIPING DETAIL

SCALE: NONE



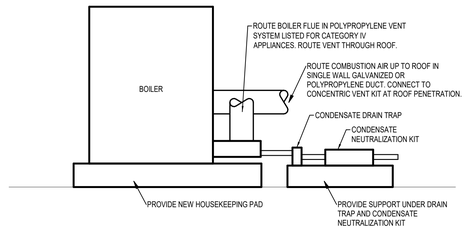
2 BASEBOARD HEATER PIPING DETAIL

SCALE: NONE



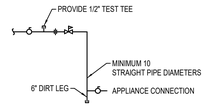
3 BOILER PIPING DETAIL

SCALE: NONE



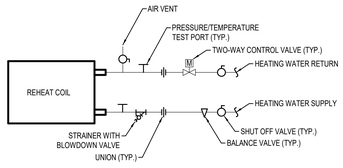
4 BOILER FLUE, DRAIN, AND COMBUSTION AIR CONNECTIONS1

SCALE: NONE



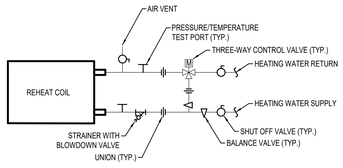
5 GAS PRESSURE REGULATOR PIPING DETAIL

SCALE: NONE



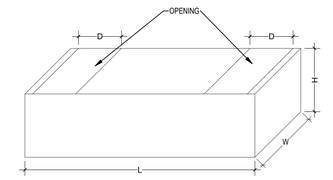
6 REHEAT COIL WITH TWO-WAY PIPING DETAIL

SCALE: NONE



7 REHEAT COIL WITH THREE-WAY PIPING DETAIL

SCALE: NONE



A. LINE ALL INTERIOR SURFACES WITH 1" FIBERGLASS DUCT LINER.

B. CONSTRUCT TRANSFER DUCT IN ACCORDANCE WITH SMACNA DUCT CONSTRUCTION STARDS FOR 1" PRESSURE CLASS.

DUCT SIZE	MAXIMUM AIRFLOW (CFM)	DIMENSIONS			
		L	W	H	D
A	250	32	12	6	10
B	500	64	12	12	20
C	750	64	18	12	20
D	1000	64	24	12	20
E	1500	64	36	12	20
F	2000	64	48	12	20
G	3000	96	48	18	30

8 TRANSFER DUCT DETAIL

SCALE: NONE

BOILER SCHEDULE (B)

PLAN CODE	HEATING INPUT (BTU/HR)	EFFICIENCY (%)	FLOW (GPM)	PRESSURE DROP (FT. W.G.)	ENTERING WATER TEMPERATURE (F)	LEAVING WATER TEMPERATURE (F)	TURNDOWN	VOLT/PH	FULL LOAD AMPS	WIDTH X LENGTH X HEIGHT (IN.)	OPERATING WEIGHT (LB)	MANUFACTURER & MODEL
B-1	199,999	90.00%	15	2	136	160	5:01	115/1	5	39 X 18 X 51	600	ATH KN-2

NOTES: PROVIDE WITH CONDENSATE NEUTRALIZATION KIT.

PUMP SCHEDULE SCHEDULE (P)

PLAN CODE	SYSTEM SERVED	FLOW (GPM)	HEAD PRESSURE (FT. W.G.)	FLUID	RPM	ELECTRICAL			MANUFACTURER & MODEL
						BHP	HP	VOLT/PH	
P-1	HEATING WATER - PRIMARY	15	15	WATER	2963	0.10	1/6	115/1	BELL & GOSSETT ECOCIRC XL 36-45
P-2	HEATING WATER - SECONDARY	24	45	WATER	2948	0.75	1	460/3	BELL & GOSSETT ECOCIRC XL 65-130

BUFFER TANK SCHEDULE (BT)

PLAN CODE	SYSTEM SERVED	VOLUME	CONNECTION SIZE (IN.)	DIAMETER (IN.)	HEIGHT (IN.)	OPERATING WEIGHT (LB)	MANUFACTURER & MODEL	ACCESSORIES
BT-1	HEATING WATER	80	2"	25	63	920	LOCHINVAR RJS080M	

NATURAL GAS PRESSURE REGULATOR SCHEDULE (REG)

PLAN CODE	SYSTEM SERVED	GAS FLOW (CFH)	INLET PRESSURE (PSI)	OUTLET PRESSURE (IN. W.G.)	NOTES
REG-1	ROOF TOP UNIT RTU-11, 12	142	2	7	RATED FOR OUTDOOR INSTALLATION
REG-2	BOILER B-1	224	2	7	PROVIDE WITH VENT LIMITER

EXPANSION TANK SCHEDULE (ET)

PLAN CODE	MINIMUM TANK VOLUME (GAL)	MINIMUM ACCEPTANCE VOLUME (GAL)	ASME RATED?	MANUFACTURER & MODEL
ET-1	13	5.5	YES	BELL AND GOSSETT D-40V

PRESSURE REDUCING VALVE (PRV)

PLAN CODE	CONNECTION SIZE (IN)	INLET PRESSURE (PSI)	OUTLET PRESSURE (PSI)	MANUFACTURER & MODEL
PRV-1	3/4	60	25	WATTS LF223

PLUMBING FIXTURE SCHEDULE

PLAN CODE	DESCRIPTION	COLD	HOT	WASTE	VENT	BASIS OF DESIGN
FD-1	FLOOR DRAIN. PROVIDE WITH ROUND NICKEL BRONZE STRAINER. CAST IRON BODY. PROVIDE WITH DEEP SEAL P-TRAP.	-	-	2"	1-1/4"	JR SMITH FIGURE 2051

ROOFTOP UNIT SCHEDULE (RTU)

PLAN CODE	AIRFLOW (CFM)	NOMINAL COOLING CAPACITY (TONS)	EER @AHRI	AIRFLOW CONTROL	EXTERNAL STATIC PRESSURE (IN W.G.)	COOLING			HEATING			ELECTRICAL			WEIGHT (LBS)	MANUFACTURER & MODEL
						ENTERING AIR TEMPERATURE (DB/WB)	LEAVING UNIT AIR TEMPERATURE (DB/WB)	NET SENSIBLE COOLING CAPACITY (MBH)	AMBIENT TEMPERATURE	OUTPUT CAPACITY (MBH)	ENTERING AIR TEMPERATURE (DB)	LEAVING AIR TEMPERATURE (DB)	STAGES	VOLT/PH	MCA	MOP		
RTU-11	3,200	8.5	12.6	TRUE VAV	1.5	77.6/62	55.6/53.7	79.29	95	101.1	64	99.4	2	460/3	20	25	1,200	TRANE YCZ102F3RMA
RTU-12	3,200	8.5	12.6	TRUE VAV	1.5	77.6/62	55.6/53.7	79.29	95	101.1	64	99.4	2	460/3	20	25	1,200	TRANE YCZ102F3RMA

NOTES: PROVIDE WITH ROOF CURB, DUCT PRESSURE SENSOR, TWO SETS OF FILTERS (MERV 13), POWER EXHAUST, AND NON-POWERED SERVICE OUTLET.

VARIABLE AIR VOLUME BOX SCHEDULE

PLAN CODE	AREA SERVED	BOX SIZE (IN)	MAX AIRFLOW (CFM)	MIN AIRFLOW (CFM)	MAX HEATING AIRFLOW (CFM)	PRESSURE DROP (IN. W.G.)	RADIATED NOISE (NC) @ 7 P.D.)	ENTERING WATER TEMPERATURE (F)	WATER FLOW (GPM)	WATER P.D. (FT. W.G.)	HEAT CAPACITY (MBH)	REHEAT COIL ROWS
VAV-1	OFFICE 4	8	500	160	400	0.27	23	140	1	0.2	11.3	2
VAV-2	OFFICE 5 & 7	8	500	160	350	0.27	23	140	1	0.2	10.6	2
VAV-3	OFFICE 6 & 8	10	950	160	580	0.41	25	140	2	0.5	18.3	2
VAV-4	OFFICE 9	8	450	160	400	0.24	25	140	1	0.2	11.3	2
VAV-5	OFFICE 10	6	150	80	150	0.12	20	140	1	0.2	6.3	2
VAV-6	OFFICE 11 & 14	10	800	160	580	0.32	28	140	2	0.5	18.2	2
VAV-7	OFFICE 12 & 13	8	520	160	400	0.27	25	140	1	0.2	11.3	2
VAV-8	OFFICE 15 & 16	10	1100	160	900	0.52	28	140	4	1.8	25.4	2
VAV-9	OFFICE 21 & 22	6	300	80	100	0.23	27	140	1	0.2	4.9	2
VAV-10	OFFICE 17	6	400	80	300	0.38	31	140	1	0.2	8.9	2
VAV-11	OFFICE 19 & 20	6	300	80	100	0.23	27	140	1	0.2	4.9	2
VAV-12	OFFICE 18	6	260	80	200	0.23	27	140	1	0.2	7.3	2
VAV-13	PROCTORS OFFICE	6	350	80	200	0.32	25	140	1	0.2	7.3	2

GRILLES, REGISTERS, DIFFUSERS SCHEDULE

PLAN CODE	TYPE	CEILING / MOUNTING	NECK SIZE (IN.)	FACE SIZE (IN.)	AIRFLOW (CFM)	PRESSURE DROP (IN. W.G.)	THROW (FT.)	NOISE (NC)	MANUFACTURER & MODEL	NOTES
1	PLAQUE FACE	CEILING GRID / LAY-IN	6	24 X 24	200	0.07	9	21	TITUS OMNI	
2	PLAQUE FACE	CEILING GRID / LAY-IN	8	24 X 24	315	0.09	12	21	TITUS OMNI	
3	PLAQUE FACE	CEILING GRID / LAY-IN	10	24 X 24	435	0.11	14	20	TITUS OMNI	
4	PLAQUE FACE	CEILING GRID / LAY-IN	12	24 X 24	550	0.12	16	18	TITUS OMNI	
5	PERFORATED	CEILING GRID / LAY-IN	22X10	24 X 12	400	0.05	<15	NA	TITUS 8R	
6	PERFORATED	CEILING GRID / LAY-IN	22X22	24 X 24	940	0.05	<15	NA	TITUS 8R	
7	LINEAR SLOT (2.5")	SIDEWALL	12	50 X 5	600	0.08	25	15	TITUS FL-25 JET THROW	2.5" SLOT. PROVIDE WITH 48" LONG INSULATED PLENUM. PROVIDE WITH FACE OPERATED DAMPER.

ELECTRIC HEATER SCHEDULE (EH)

PLAN CODE	TYPE	HEATING OUTPUT (WATTS)	VOLTAGE	AMPS	WIDTH X DEPTH X HEIGHT (IN)	CONTROL	MANUFACTURER & MODEL	REMARKS
EH-1	WALL HEATER	1000	120	8	11 X 4 X 12	INTEGRAL THERMOSTAT	MARLEY MEP CWH-1010SF	PROVIDE WITH SURFACE MOUNTING FRAME

BASEBOARD RADIANT PANEL SCHEDULE (BB)

PLAN CODE	TYPE	HEATING CAPACITY (BTU/H)	LENGTH (FT.)	HEIGHT (IN)	DEPTH (IN)	FLOW (GPM)	ENTERING WATER TEMPERATURE (F)	LEAVING WATER TEMPERATURE (F)	MANUFACTURER & MODEL
BB-1	DOUBLE SIDED LOW TEMPERATURE	1620	3	12	2	0.20	160	140	RUNTAL UFLT-4
BB-2	DOUBLE SIDED LOW TEMPERATURE	2060	3	15	2	0.20	160	140	RUNTAL UFLT-5
BB-3	DOUBLE SIDED LOW TEMPERATURE	2400	3.5	15	2	0.25	160	140	RUNTAL UFLT-5
BB-4	DOUBLE SIDED LOW TEMPERATURE	2700	5	12	2	0.30	160	140	RUNTAL UFLT-4
BB-5	DOUBLE SIDED LOW TEMPERATURE	2750	4	15	2	0.30	160	140	RUNTAL UFLT-5
BB-6	DOUBLE SIDED LOW TEMPERATURE	4150	6	15	2	0.40	160	140	RUNTAL UFLT-5
BB-7	DOUBLE SIDED LOW TEMPERATURE	4350	8	12	2	0.50	160	140	RUNTAL UFLT-4
BB-8	DOUBLE SIDED LOW TEMPERATURE	4800	7	15	2	0.50	160	140	RUNTAL UFLT-5
BB-9	DOUBLE SIDED LOW TEMPERATURE	5400	10	12	2	0.60	160	140	RUNTAL UFLT-4
BB-10	DOUBLE SIDED LOW TEMPERATURE	5500	8	15	2	0.60	160	140	RUNTAL UFLT-5

NOTES: PROVIDE WITH FREESTANDING LEG MOUNTING KIT. PIPING CONNECTIONS ON SAME END. CONFIRM LEFT/RIGHT HAND CONFIGURATION PRIOR TO ORDERING.

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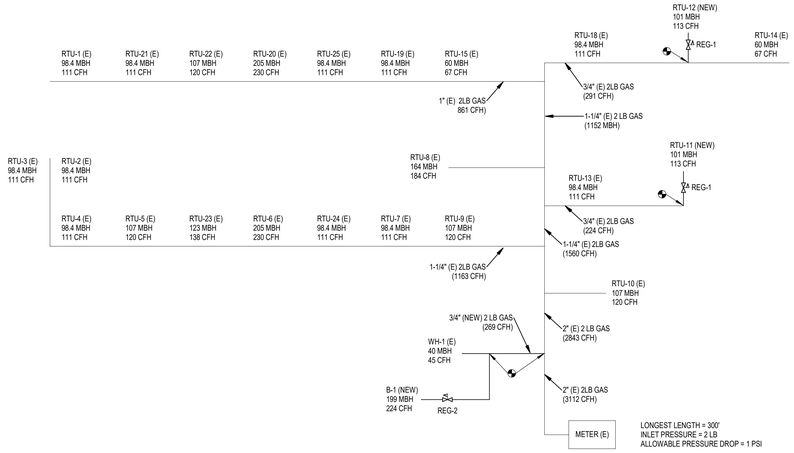


1 NATURAL GAS PIPING SCHEMATIC

SCALE: NONE

HEATING WATER SUPPLY TEMPERATURE RESET	
OUTSIDE AIR TEMPERATURE	HEATING WATER SUPPLY TEMPERATURE
OUTSIDE AIR < 40	140
40 < OUTSIDE AIR < 80	RESET LINEARLY
OUTSIDE TEMP > 80	80

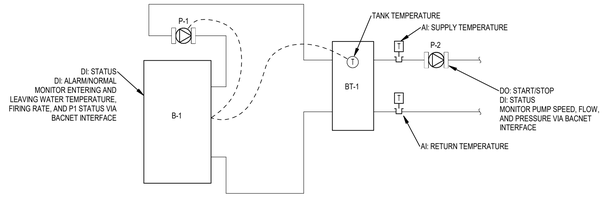
SEQUENCE OF OPERATIONS

A. BOILER FACTORY CONTROLS WILL STAGE BOILERS TO MAINTAIN BUFFER TANK AT SETPOINT (RESET WITH OUTSIDE AIR TEMPERATURE) (ADJ.)

B. WHEN A BOILER IS COMMANDED TO RUN, IT WILL START ITS PRIMARY PUMP.

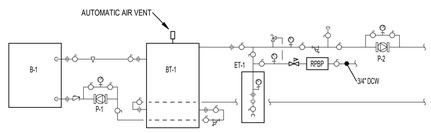
C. WHEN A VAV BOX REHEAT VALVE OPENS FOR MORE THAN 2 MINUTES (ADJ.), START P-2. MODULATE P-2 SPEED USING INTERNAL SENSOR AND FACTORY CONTROLS FOR PROPORTIONAL PRESSURE CONTROL.

D. OPERATE P-2 UNTIL ALL REHEAT VALVES ARE CLOSED.



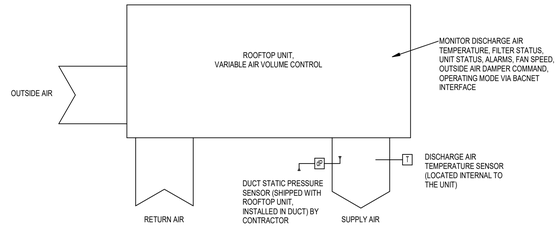
2 BOILER CONTROL SCHEMATIC

SCALE: NONE



3 HEATING WATER PIPING SCHEMATIC

SCALE: NONE



SEQUENCE OF OPERATIONS

A. THE ROOFTOP FACTORY CONTROLS WILL OPERATE THE UNIT IN OCCUPIED/UNOCCUPIED MODE ACCORDING TO THE BUILDING SCHEDULE. IN SHIFTING FROM UNOCCUPIED TO OCCUPIED MODE, THE SYSTEM WILL USE OPTIMAL START LOGIC TO ALLOW EACH ZONE TO BE AT SETPOINT BY THE TIME OCCUPANCY OF THE BUILDING IS SCHEDULED TO START. IN SHIFTING FROM OCCUPIED TO UNOCCUPIED MODE, THE SYSTEM WILL UTILIZE A NIGHT SETBACK OF SETPOINTS.

B. WHEN THE BUILDING IS OCCUPIED, THE ROOFTOP UNIT WILL OPERATE WITH OUTSIDE AIR DAMPER SET FOR MINIMUM VENTILATION. FACTORY CONTROLS WILL MODULATE HEATING AND COOLING OUTPUT TO PROVIDE DISCHARGE AIR AT SETPOINT (55F (ADJ.)). THE ROOFTOP UNIT FAN SPEED WILL BE CONTROLLED TO MEET THE DUCT STATIC PRESSURE SETPOINT OF 1.5" (ADJ.). THE OUTSIDE AIR DAMPER MODULATE IN PROPORTION WITH THE CHANGING FAN SPEED TO BRING IN THE REQUIRED VENTILATION.

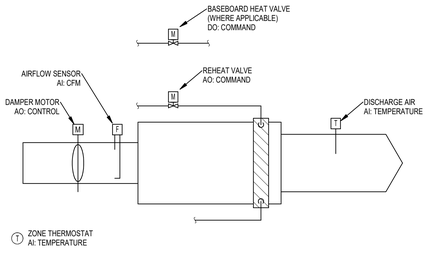
C. WHEN THE BUILDING IS UNOCCUPIED, THE ROOFTOP UNIT WILL BE OFF UNLESS COMMANDED TO RUN TO MEET AN UNOCCUPIED ROOM TEMPERATURE SETPOINT.

D. THE ROOFTOP UNIT WILL MODULATE THE OUTSIDE AIR AND RETURN AIR DAMPERS TO PROVIDE ECONOMIZER AS A FIRST STAGE OF COOLING. WHEN OPERATING IN ECONOMIZER MODE, THE UNIT WILL MODULATE POWERED EXHAUST TO REMOVE THE OUTSIDE AIR BEING PULLED INTO THE FAN SYSTEM.

E. THE ROOFTOP UNIT WILL RESET THE DISCHARGE AIR TEMPERATURE SETPOINT BASED ON OUTSIDE AIR TEMPERATURE.

4 VAV ROOFTOP UNIT SCHEMATIC

SCALE: NONE



SEQUENCE OF OPERATIONS

A. DURING OCCUPIED HOURS, MODULATE DAMPER POSITION, BASEBOARD HEATER VALVE, AND REHEAT VALVE TO MAINTAIN SPACE TEMPERATURE AT SETPOINT. DURING UNOCCUPIED HOURS, IF ZONE GETS OUTSIDE OF TEMPERATURE LIMITS, SEND SIGNAL TO AIR HANDLER TO START.

B. COOLING: MODULATE THE DAMPER POSITION TO KEEP ZONE TEMPERATURE AT COOLING SETPOINT WITHIN THE CONSTRAINTS OF MINIMUM AND MAXIMUM FLOWS DEFINED FOR THE VAV BOX. IF ZONE TEMPERATURE DROPS BELOW HEATING SETPOINT WITH AIRFLOW AT MINIMUM, MODULATE REHEAT VALVE OPEN (SUBJECT TO A MAXIMUM DISCHARGE AIR TEMPERATURE OF 92F (ADJ. ON HEAD END)) WHILE KEEPING AIRFLOW AT MINIMUM SETPOINT.

C. HEATING: IF ZONE CONTINUES TO STAY BELOW HEATING SETPOINT WITH AIRFLOW AT MINIMUM, OPEN THE BASEBOARD HEATING VALVE (IN ZONES EQUIPPED WITH BASEBOARD HEATER) AS THE FIRST STAGE OF HEATING. MODULATE DAMPER OPEN TO INCREASE AIRFLOW AS NEEDED TO MAINTAIN ZONE AT HEATING SETPOINT. CONTINUE TO MODULATE REHEAT VALVE TO MAINTAIN DISCHARGE AIR TEMPERATURE NO HIGHER THAN 92F (ADJ. ON HEAD END).

D. DEADBAND: IF ZONE TEMPERATURE IS BETWEEN HEATING AND COOLING SETPOINTS, KEEP AIRFLOW AT MINIMUM SETPOINT.

E. SETPOINT: SETPOINTS SHALL BE ADJUSTABLE +/- 3 DEGREES BY ZONE OCCUPANTS. KEEP 3 DEGREE DEADBAND BETWEEN HEATING AND COOLING AS SETPOINT IS ADJUSTED.

	OCCUPIED	UNOCCUPIED
HEATING SETPOINT	71 +/- 3	50
COOLING SETPOINT	74 +/- 3	85
DEADBAND	3	5

5 VAV BOX CONTROL SCHEMATIC

SCALE: NONE

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MECHANICAL SCHEMATICS

sheet:

MH701

CONSTRUCTION DOCUMENT
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GENERAL NOTES

A. ALL VAV BRANCH PIPING CONNECTIONS ARE 1/2" UNLESS NOTED OTHERWISE.

KEYED NOTES

1 PROVIDE TWO WAY CONTROL VALVE.
2 PROVIDE THREE WAY CONTROL VALVE.
3 BRANCH PIPING TO BASEBOARD HEATERS IS 1/2". ROUTE SUPPLY PIPING TO EACH BASEBOARD HEATER ACCORING TO VAV BOX ZONING. WHERE TWO HEATERS ARE FED FROM PIPE DROPS IN THE SAME WALL, THE RETURN CONNECTIONS CAN BE TIED TO A SINGLE RETURN PIPE.

LARGE CLASSROOM 150
TECH WORK / STORAGE ROOM 152
STORAGE 156A
TECH OFFICE 1 154A
TECH OFFICE 2 154B
TECH FACILITATOR NORTH 154
EXTRA LARGE CLASSROOM 156
LARGE CLASSROOM 148
NORTH HALL 160D
WEST HALL 160C
IT/DATA 151
COCKPIT 153
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MEDIUM CLASSROOM 157
MEDIUM CLASSROOM 159
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LARGE CLASSROOM 146
EXTRA SMALL CLASSROOM 147
EXTRA SMALL CLASSROOM 145
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TEACH LIVE LAB 140
STORAGE 128
ELEC 124
STORAGE 188
Lobby 161
OFFICE 4 101L
OFFICE 5 101K
OFFICE 6 101J
OFFICE 7 101H
OFFICE 8 101G
OFFICE 9 101F
OFFICE 3 101M
OFFICE 10 101E
TDO 1 101Q
TDO 2 101R
TDO 3 101S
TDO 4 101T
TDO 5 101U
TDO 6 101V
OFFICE 2 101N
OPEN OFFICE 101
OFFICE 11 101D
OFFICE 1 101P
OFFICE 12 101C
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KITCHEN / BREAK 105
LARGE CONFERENCE 103
OFFICE 13 101B
FAMILY RESTROOM 131
VENDING 133A
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OFFICE 14 101A
MENS 127
WOMENS 125
MOTHER'S 125A
OFFICE 22 100H
OFFICE 21 100G
OPEN OFFICE B 100
OFFICE 15 100A
OFFICE 20 100F
OFFICE 16 100B
PROCTOR OFFICE 104C
TESTING CENTER 104A
OFFICE 19 100E
OFFICE 17 100C
IT/DATA 111
OFFICE 18 100D
SOUTH HALL 160A
EXTRA SMALL CLASSROOM 122
EXTRA SMALL CLASSROOM 120
EXTRA SMALL CLASSROOM 118
EXTRA SMALL CLASSROOM 116
EXTRA SMALL CLASSROOM 114
SMALL CLASSROOM 112
SMALL CLASSROOM 110

EXCLUDED CLOUDED SCOPE AS SHOWN FROM THE BID SET

1 MECHANICAL PIPING REMODEL PLAN
SCALE: 1/8" = 1'-0"

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MECH. PIPING REMODEL FLOOR PLAN

sheet:
MP101

CONSTRUCTION DOCUMENT
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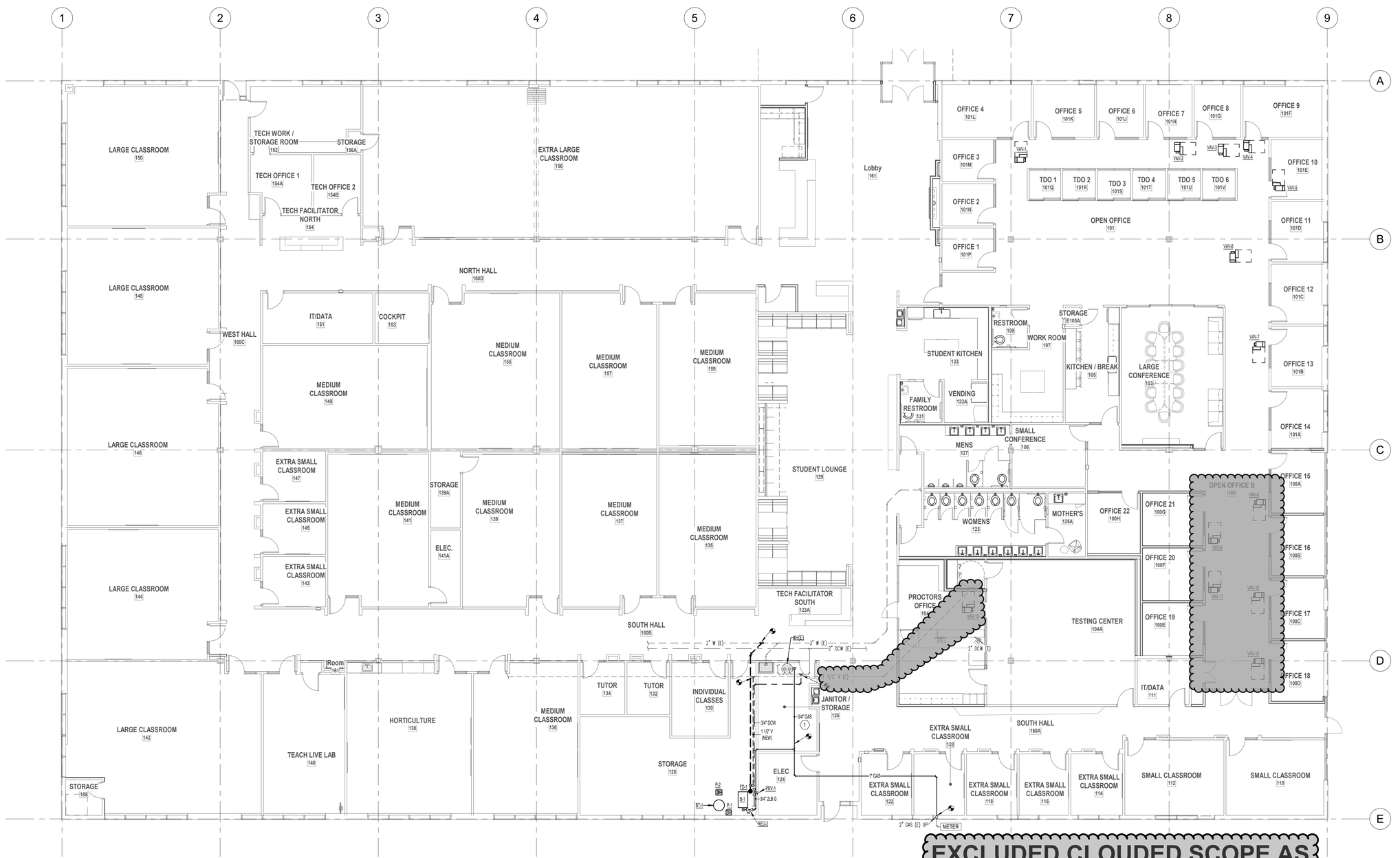
GENERAL NOTES

A. PLUMBING GENERAL NOTES.

KEYED NOTES

1 DEMOLISH EXISTING 1/2" GAS LINE AND REPLACE WITH 3/4".



EXCLUDED CLOUDED SCOPE AS SHOWN FROM THE BID SET

1 PLUMBING REMODEL PLAN
SCALE: 1/8" = 1'-0"

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.09.2022

revisions :

title:

PLUMBING REMODEL FLOOR PLAN

sheet:

PL101

CONSTRUCTION DOCUMENT
REVIEW SET

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
WIRING DEVICES	
	RECEPTACLE, DUPLEX: NEMA 5-20R.
A	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER: NEMA 5-20R.
	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.
FB#	FLUSH FLOOR BOX. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
CBB	TV MONITOR BACK BOX
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.
1 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. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.
1	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
HC	ADA ACCESS PUSH PLATE
	JUNCTION BOX.
	MECHANICAL EQUIPMENT CONNECTION. REFER TO EQUIPMENT SCHEDULE FOR REQUIREMENTS.

SYMBOLS LEGEND

SYMBOL	DESCRIPTION
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.
	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	
	VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
P	PHOTOCELL.
a,b	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
RC	DIGITAL LIGHTING ROOM CONTROLLER
X	LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE SCHEDULE / DIAGRAM.
FIRE ALARM	
FSA	FIRE SYSTEM ANNUNCIATOR.
P	FIRE ALARM MANUAL PULL STATION.
	DETECTOR, SMOKE.
75	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
75	ALARM, HORN/STROBE, ONE ASSEMBLY. SUBSCRIPT INDICATES CANDELA RATING.
75	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
SECURITY	
EPT	ELECTRICAL POWER TRANSFER.
CR	CARD READER.
CI	DOOR POSITION INDICATOR.
CCTV	
360°	PANNING CAMERA TRANSVERSE ANGLE.
00 REFERENCE AND LINE SYMBOLS	
01 A5 E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
02 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.
03 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 04 100	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.
05 1	KEYNOTE INDICATOR.
06 1	REVISION INDICATOR.
07 CU-1	EQUIPMENT INDICATOR.
08 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.
10	BREAK, ROUND
12	NEW LINE: MEDIUM LINE.
13	HIDDEN FEATURES LINE: HIDDEN, THIN LINE
14	EXISTING TO REMAIN LINE: THIN LINE.
15	DEMOLITION LINE: DASHED, MEDIUM LINE

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
4OUT	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
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	NATIONAL 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
UF	UNDERFLOOR
UGND	UNDERGROUND
UPS	UNINTERRUPTIBLE POWER SUPPLY
V	VOLTS
VA	VOLT AMPERE
VFC/VFD	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.

ELECTRICAL SHEET INDEX

EE001	SHEET INDEX, ABBR, AND NOTES
EE501	ELECTRICAL DETAILS
EE502	TYPICAL MOUNTING HEIGHTS
EE503	TYPICAL SIGNAGE & LABELING DETAILS
ES101	SITE ELECTRICAL PLAN
ED101	LEVEL 1 DEMOLITION FLOOR PLAN
ED102	LEVEL 1 DEMOLITION CEILING PLAN
ED103	ROOF DEMOLITION PLAN
EP101	LEVEL 1 POWER PLAN
EP102	ROOF POWER PLAN
EP601	PANEL SCHEDULES
EP602	EQUIPMENT SCHEDULE
EL101	LEVEL 1 LIGHTING PLAN
EL601	LIGHTING FIXTURE SCHEDULE
EL602	LIGHTING CONTROL SCHEDULES
EY101	LEVEL 1 AUXILIARY PLAN
EY601	FIRE ALARM & AUX RISERS

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.

TELEPHONE UTILITY

UTAH STATE UNIVERSITY — PERSON CONTACTED: BRAYDON WISE; PHONE NUMBER: 435-797-3111; EMAIL: BRAYDON.WISE@USU.EDU

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LICENSED PROFESSIONAL ENGINEER No. 5497590-2202 Christopher Kinder Spectrum STATE OF UTAH

05.16.2020

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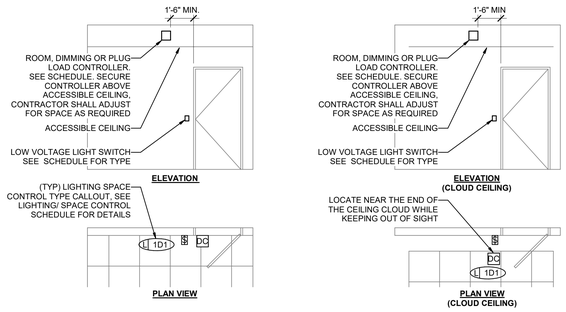
SHEET INDEX, ABBR, AND NOTES

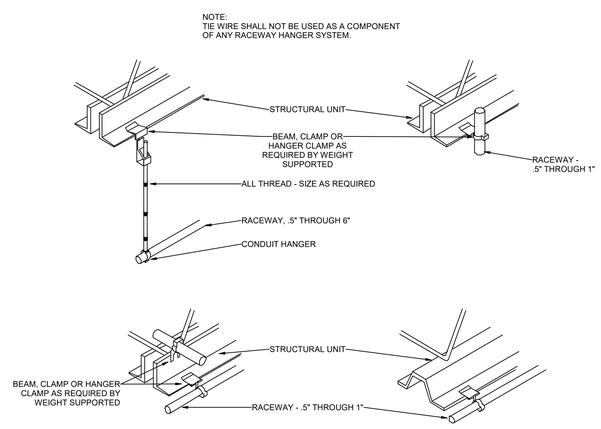
sheet:

EE001

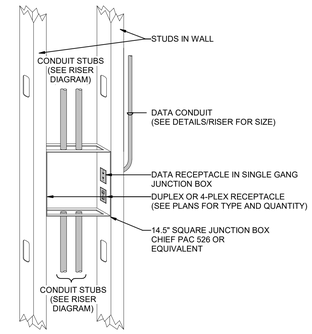
CONSTRUCTION DOCUMENT REVIEW SET



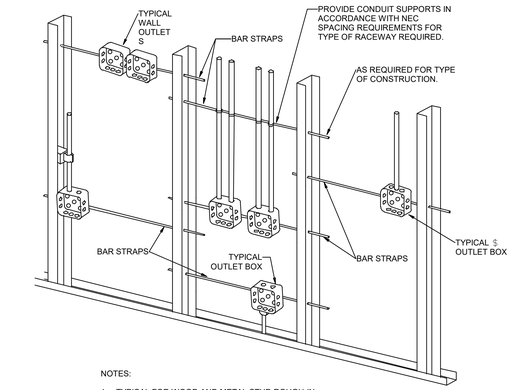
B1 TYPICAL ROOM CONTROLLER MOUNTING DETAILS
NTS



B3 TYPICAL RACEWAY SUPPORT METHODS DETAIL
NTS



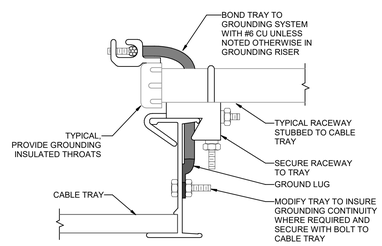
D5 TYPICAL FLAT PANEL RECEPTACLE ROUGH-IN DETAIL
NTS



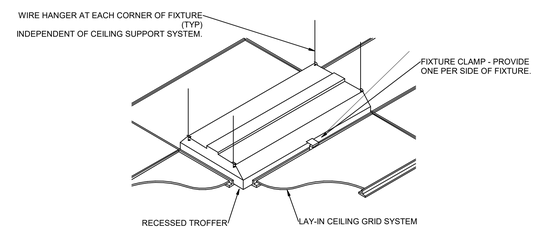
NOTES:

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 MININUN OF 24" HORIZONTAL DISTANCE.
5. IN NON-RATED WALLS, OUTLETS ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY 16" FOR SOUND ATTENUATION.

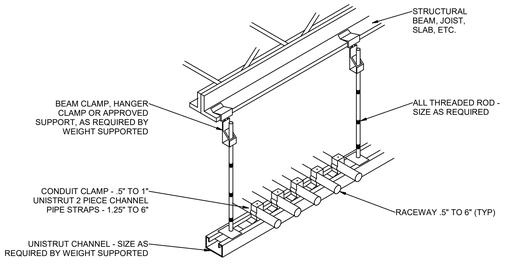
B5 TYPICAL ROUGH-IN REQUIREMENTS DETAIL
NTS



TYPICAL CONDUIT TO CABLE TRAY ADAPTER W/ GROUNDING DETAIL
A1
NTS



A3 RECESSED FIXTURE MOUNTING DETAIL
NTS



A5 TYPICAL CONDUIT RACK DETAIL
NTS

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Christopher Kenneth Yoshimi
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05.16.2020

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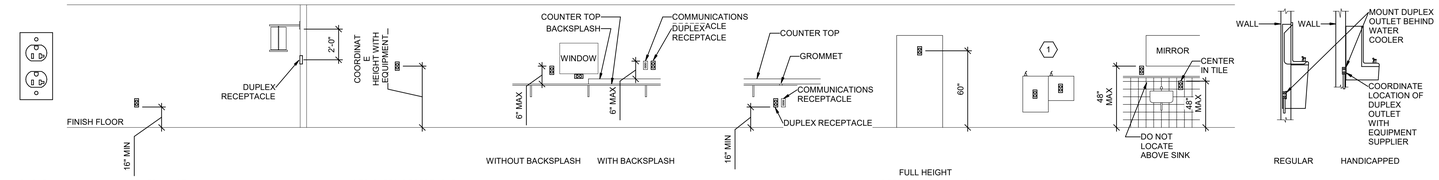
ELECTRICAL DETAILS

sheet:

EE501

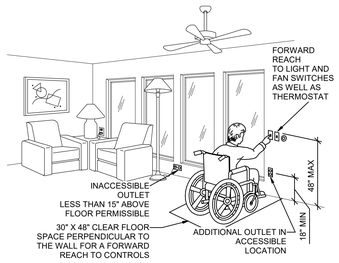
CONSTRUCTION DOCUMENT REVIEW SET

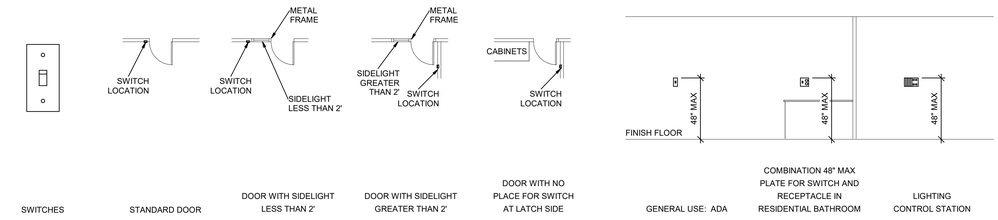


DUPLEX RECEPTACLES | GENERAL USE: NO SPECIAL REQUIREMENTS | WALL BRACKET TV | DEDICATED RECEPTACLE FOR SPECIAL EQUIPMENT | WITHOUT BACKSPLASH | WITH BACKSPLASH | RECEPTACLES ABOVE COUNTER | RECEPTACLES BELOW COUNTER | FULL HEIGHT REFRIGERATORS AND VENDING MACHINES | DRINKING FOUNTAIN | TILE WALLS | DRINKING FOUNTAIN - SIDE ELEVATIONS

REFER TO ARCHITECTURAL ELEVATIONS FOR PLACEMENT OF OUTLETS.

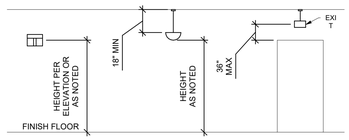
E2 RECEPTACLE MOUNTING DETAILS
NTS





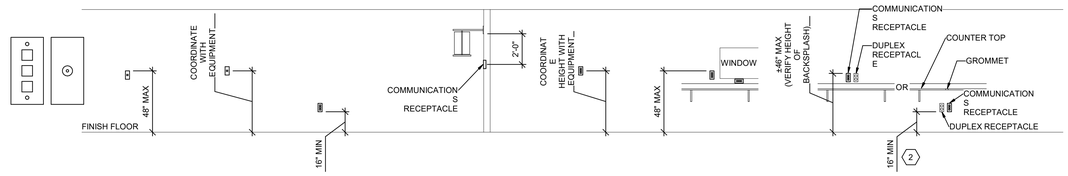
SWITCHES | STANDARD DOOR | DOOR WITH SIDELIGHT LESS THAN 2' | DOOR WITH SIDELIGHT GREATER THAN 2' | DOOR WITH NO PLACE FOR SWITCH AT LATCH SIDE | GENERAL USE: ADA | COMBINATION 48" MAX PLATE FOR SWITCH AND RECEPTACLE IN RESIDENTIAL BATHROOM | LIGHTING CONTROL STATION

D2 ADA DETAIL
NTS



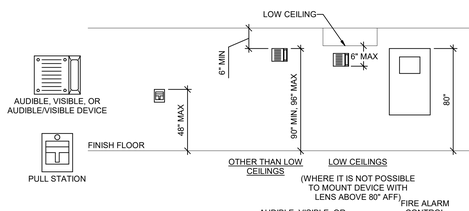
WALL MOUNTED LIGHT FIXTURE | PENDANT LIGHT FIXTURE | PENDANT EXIT SIGNS

D3 SWITCH MOUNTING DETAILS
NTS



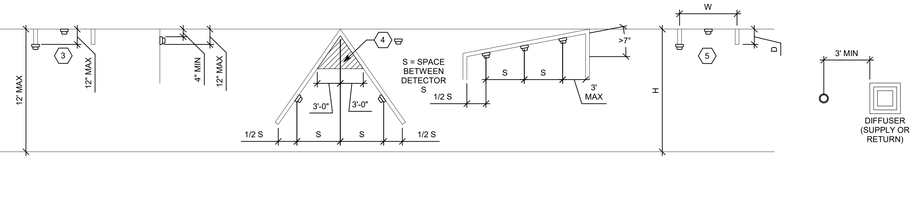
COMMUNICATION RECEPTACLES | WALL PHONE | PAY PHONE | GENERAL USE: NO SPECIAL REQUIREMENTS | WALL BRACKET TV | DEDICATED RECEPTACLE FOR SPECIAL EQUIPMENT | ABOVE COUNTER - TYPICAL | RECEPTACLES ABOVE OR BELOW COUNTER

C2 LIGHTING MOUNTING DETAILS
NTS



FIRE ALARM | PULL STATION | AUDIBLE, VISIBLE, OR AUDIBLE/VISIBLE DEVICE | FIRE ALARM CONTROL PANEL "FCP" | FIRE SYSTEM ANNUNCIATOR "FSA" | BELL

C3 COMMUNICATIONS MOUNTING DETAILS
NTS



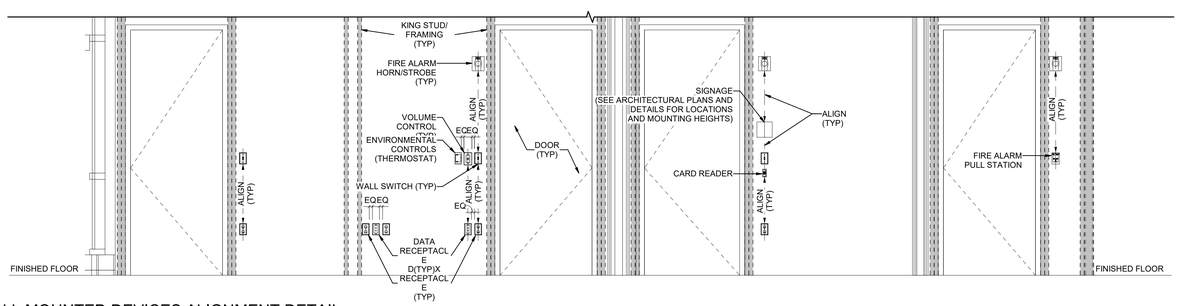
SMOKE DETECTOR BETWEEN BEAMS | WALL MOUNTED SMOKE DETECTOR | SMOKE DETECTOR ON SLOPED CEILING (PEAKED) | SMOKE DETECTOR ON SLOPED CEILING (SHED) | HEAT DETECTOR BETWEEN BEAMS | SMOKE DETECTOR ADJACENT TO SUPPLY AIR

B1 FIRE ALARM MOUNTING DETAILS
NTS



BOXES ON OPPOSITE SIDES OF WALL

A1 BOX MOUNTING DETAILS
NTS



A2 TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL
NTS

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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05.16.2020

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920 W Levoy Dr,
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TYPICAL MOUNTING HEIGHTS

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EE502

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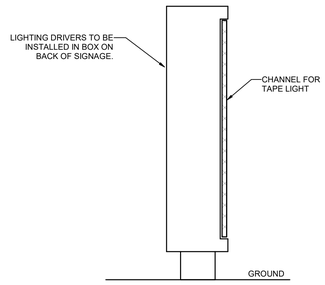
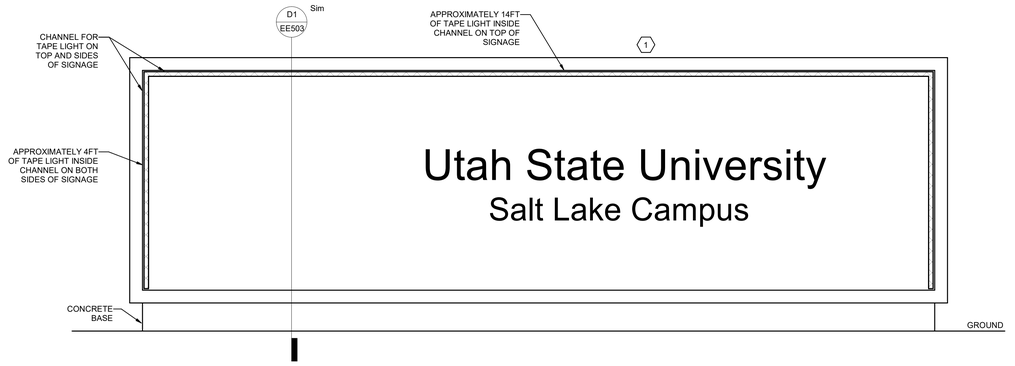


D1 MAIN SIGNAGE COVE LIGHTING SECTION VIEW
NTS

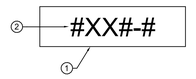


D2 MAIN SIGNAGE COVE LIGHTING DETAIL
NTS

SHEET KEYNOTES

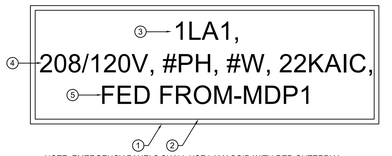
1 APPROXIMATELY TWO 4FT SECTIONS OF TAPE LIGHT FOR SIDES OF SIGNAGE. APPROXIMATELY ONE 14FT SECTION OF TAPE LIGHT FOR TOP CHANNEL. VERIFY ACTUAL LENGTHS WITH SIGNAGE INSTALLER.

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.



D5 TYPICAL SWITCH/RECEPTACLE LABEL
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.



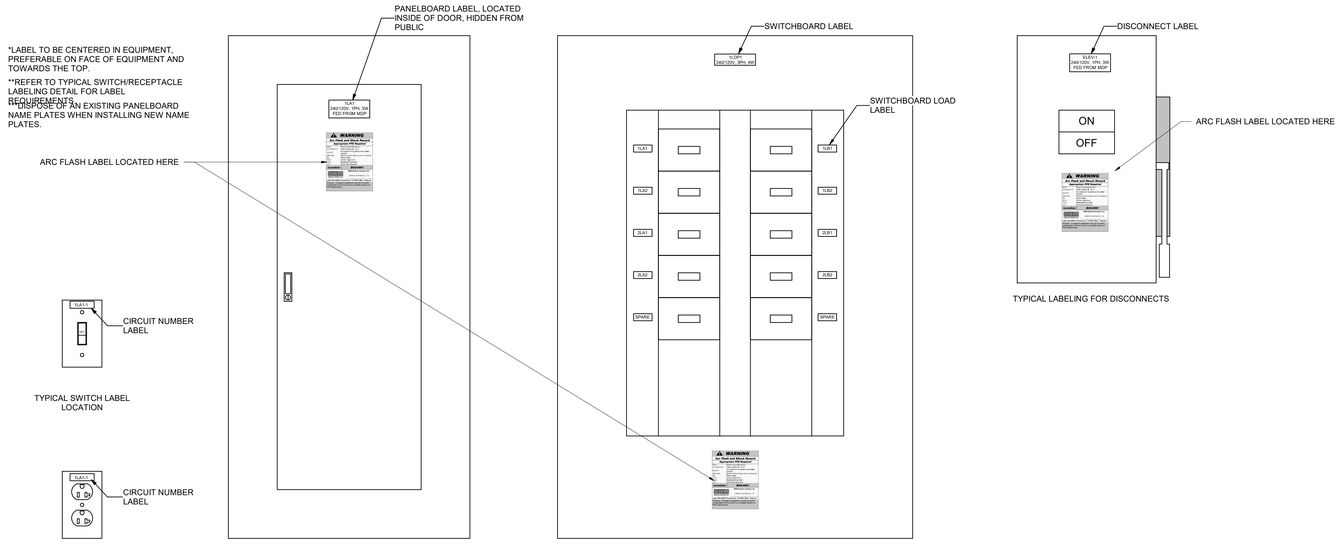
NOTE: EMERGENCY PANELS SHALL USE LAMACOID WITH RED OUTERPLY, EXPOSING WHITE LETTERING BENEATH. CONTRACTOR TO USE SAME LABEL SCHEME EXCEPT FIRST 'X' IS REPLACED WITH 'E' FOR EMERGENCY. SECOND 'X' TO BE 'L' FOR LOW OR 'H' FOR HIGH VOLTAGE (480/277V). LAST '#' TO BE REPLACED WITH LETTER INDICATING LOCATION OF PANEL.

C4 TYPICAL PANELBOARD/SWITCHBOARD LABEL
NTS

*LABEL TO BE CENTERED IN EQUIPMENT, PREFERABLE ON FACE OF EQUIPMENT AND TOWARDS THE TOP.

**REFER TO TYPICAL SWITCH/RECEPTACLE LABELING DETAIL FOR LABEL REQUIREMENTS.

***DISPOSE OF AN EXISTING PANELBOARD NAME PLATES WHEN INSTALLING NEW NAME PLATES.



A3 TYPICAL SWITCH RECEPTACLE AND PANELBOARD LABELING LOCATION DETAIL
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TYPICAL SIGNAGE & LABELING DETAILS

sheet:

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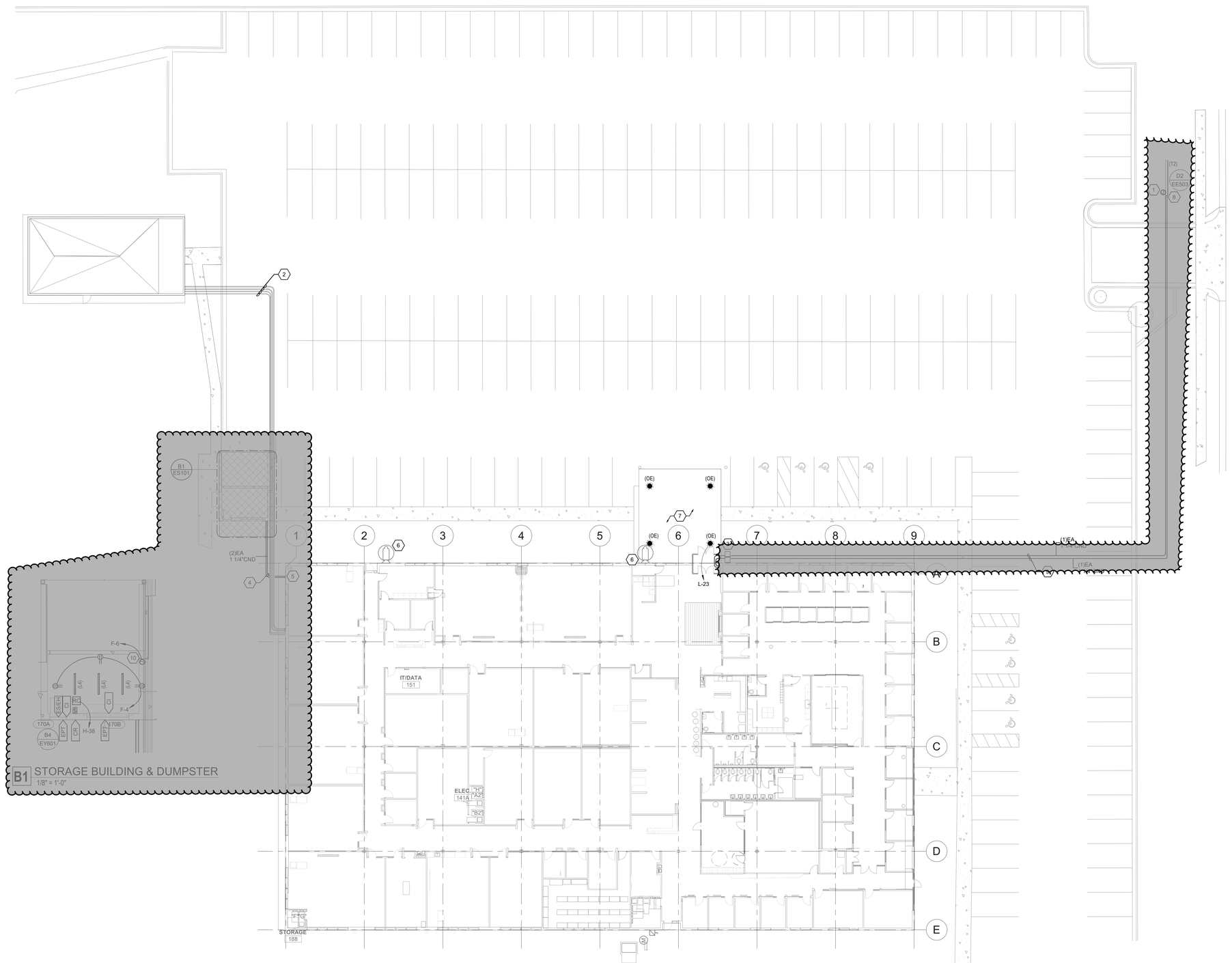
B1
ES101
1
(2)EA
1 1/4"CND
2
4
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F-6
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F-4
(E)
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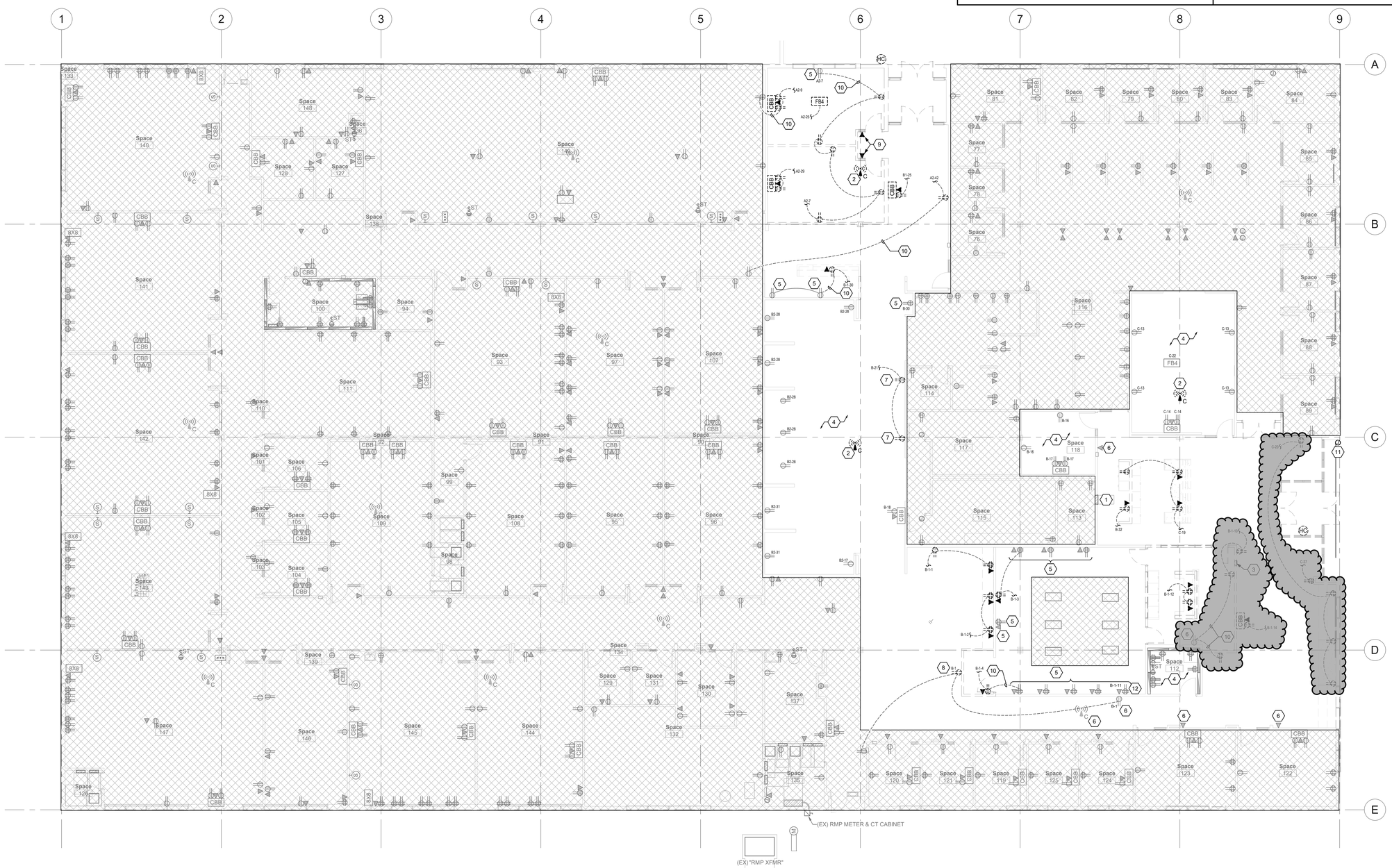
GENERAL SHEET NOTES

1. UNLESS OTHERWISE INDICATED, REMOVE ALL LIGHTING FIXTURES, OUTLETS, DEVICES AND EQUIPMENT SHOWN IN DARK DASHED LINES. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO THE PANELBOARD OF ORIGINATION. SYSTEMATICALLY CHECK EACH BRANCH PANELBOARD CIRCUIT TO VERIFY EACH CIRCUIT BREAKER NO LONGER HAS ANY ACTIVE LOADS, DISCONNECT THE WIRING AND TURN THE CIRCUIT BREAKER OFF. ANY REMAINING ACTIVE LOADS SHALL BE LABELED AT THE PANELBOARD AS TO WHAT LOAD IS SERVED.
2. ITEMS TO BE DEMOLISHED SHALL BE COORDINATED WITH OWNER FOR ANY ITEM OWNER WISHES TO SALVAGE, DELIVER TO OWNER UPON REQUEST AND DEMOLISH / DISPOSE OF ITEMS IN A LEGAL MANNER ANY ITEMS OWNER DOES NOT WANT SALVAGED.
3. REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUSLY TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
4. PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
5. PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
6. REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEILINGS ARE BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING FIRE ALARM DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN ACTIVE THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYSTEM IS TESTED AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AND INDICATING LOOPS WHERE EXISTING DEVICES ARE REMOVED.
7. ALL EXISTING CIRCUIT INFORMATION SHOWN WAS OBTAINED FROM AS-BUILTS AND ARE FOR REFERENCE ONLY.
8. CONTRACTOR SHALL COORDINATE REMOVAL OF CAMERA'S IN DEMOLITION AREAS WITH OWNER. OWNER WILL REMOVE CAMERA'S AND CABLING

SHEET KEYNOTES

1. PROTECT AND MAINTAIN EXISTING PANELBOARD.
2. REMOVE AND PROTECT FOR RE-INSTALLATION TO NEW CEILING.
3. PROTECT AND MAINTAIN FIRE ANNUNCIATOR PANEL TO BE REINSTALLED AT EAST MAIN DOOR ENTRANCE NEXT TO PULL STATION. DEMOLISH CABLING BACK TO SOURCE.
4. PROTECT AND MAINTAIN ALL EXISTING ELECTRICAL DEVICES IN THIS AREA UNLESS OTHERWISE NOTED.
5. PROTECT AND MAINTAIN EXISTING ELECTRICAL DEVICE(S). IF OTHER DEVICES ARE BEING DEMOLISHED THAT ARE CONNECTED TO THIS DEVICE, CONNECT TO NEW CIRCUIT IF NEEDED.
6. PROTECT AND MAINTAIN EXISTING DEVICE.
7. DEMOLISH EXISTING ELECTRICAL DEVICE. IF OTHER DEVICES ARE CONNECTED TO THE SAME CIRCUIT, INSTALL RACEWAYS AND CABLING AS NEEDED TO COMPLETE CIRCUIT. PATCH AND REPAIR AS NEEDED.
8. DEMOLISH OUTLET AND CABLING BACK EXISTING DEVICES. DEMOLISH RACEWAY WHERE WALL IS BEING DEMOLISHED. NEW OUTLET WILL BE INSTALLED ON EXTERIOR NORTH WALL OF NEW PROCTORS OFFICE. SEE LEVEL 1 POWER PLAN.
9. SALVAGE EXISTING ROOM SCHEDULER PANELS. DELIVER SALVAGED DEVICES TO OWNERS STOCK PILE.
10. DEMOLISH RACEWAY AND CABLING BACK TO EXISTING DEVICE.
11. REMOVE DEVICE FOR RE-INSTALLATION AT NEW LOCATION.
12. PROTECT AND MAINTAIN DATA AND POWER OUTLETS. IF EXISTING OUTLETS ARE LOCATED IN DOOR DEMOLITION AREA, REMOVE TO BE REINSTALLED SLIGHTLY NORTH OF DOORWAY.



A1 LEVEL 1 DEMOLITION FLOOR PLAN
1/8" = 1'-0"

north

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LEVEL 1 DEMOLITION FLOOR PLAN

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GENERAL SHEET NOTES

1. UNLESS OTHERWISE INDICATED, REMOVE ALL LIGHTING FIXTURES, OUTLETS, DEVICES AND EQUIPMENT SHOWN IN DARK DASHED LINES. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO THE PANELBOARD OF ORIGINATION. SYSTEMATICALLY CHECK EACH BRANCH PANELBOARD CIRCUIT TO VERIFY EACH CIRCUIT BREAKER NO LONGER HAS ANY ACTIVE LOADS, DISCONNECT THE WIRING AND TURN THE CIRCUIT BREAKER OFF. ANY REMAINING ACTIVE LOADS SHALL BE LABELED AT THE PANELBOARD AS TO WHAT LOAD IS SERVED.
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3. REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUSLY TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
4. PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
5. PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
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7. ALL EXISTING CIRCUIT INFORMATION SHOWN WAS OBTAINED FROM AS-BUILTS AND ARE FOR REFERENCE ONLY.
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SHEET KEYNOTES

1. PROTECT AND MAINTAIN EXISTING PANELBOARD.
2. SALVAGE ALL EXISTING LINEAR LIGHT FIXTURES AND PHOTOCELL SHOWN AS BEING DEMOLISHED IN THIS AREA. DELIVER SALVAGED DEVICES TO OWNERS STOCK PILE. PROTECT AND MAINTAIN ALL OTHER DEVICES SHOWN IN THIS AREA.
3. PATCH AND REPAIR WALL WHERE DEMOLISHED HORN STROBE IS LOCATED TO MATCH EXISTING WALL. PAINT ENTIRE WALL FACE IF NEEDED TO MATCH EXISTING.
4. PROTECT AND MAINTAIN EXISTING HORNSTROBE. CHANGE CANDELA SETTING TO 15.
5. PROTECT AND MAINTAIN EXISTING ELECTRICAL DEVICE(S). IF OTHER DEVICES ARE BEING DEMOLISHED THAT ARE CONNECTED TO THIS DEVICE, CONNECT TO NEW CIRCUIT IF NEEDED.
6. DEMOLISH ALL EXISTING ELECTRICAL DEVICES, RACEWAYS, AND CABLING BACK TO SOURCE IN THIS AREA UNLESS OTHERWISE NOTED.
7. DEMOLISH RACEWAYS AND CABLING BACK TO EXISTING DIMMING CONTROLLER.
8. PROTECT AND MAINTAIN EXISTING RACEWAY TO DEVICE FOR INSTALLATION NEAR THIS LOCATION.
9. DEMOLISH ALL FOUR EXISTING (OE) LIGHT FIXTURES AND FEEDERS IN ENTRANCE AREA. REPLACE WITH NEW FIXTURES AND PROVIDE NEW FEEDERS AND CONTROLS FOR FIXTURES. SEE NETWORK LIGHTING CONTROL SCHEDULE ON SHEET EL601.
10. REMOVE AND PROTECT LIGHT FIXTURE TO BE REINSTALLED IN NEW HALLWAY CEILING NEAR NEW SOUTHWEST DOOR.

EXCLUDED CLOUDED SCOPE AS SHOWN FROM THE BID SET

north

A1 LEVEL 1 DEMOLITION CEILING PLAN
1/8" = 1'-0"

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LEVEL 1 DEMOLITION CEILING PLAN

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ED102

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2. REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING WHETHER ABANDONED PREVIOUSLY TO THIS PROJECT OR AS A RESULT OF THIS PROJECT. NOT ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VERIFICATION OF DEMOLITION SCOPE EXTENT IS REQUIRED.
3. PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.
4. PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.
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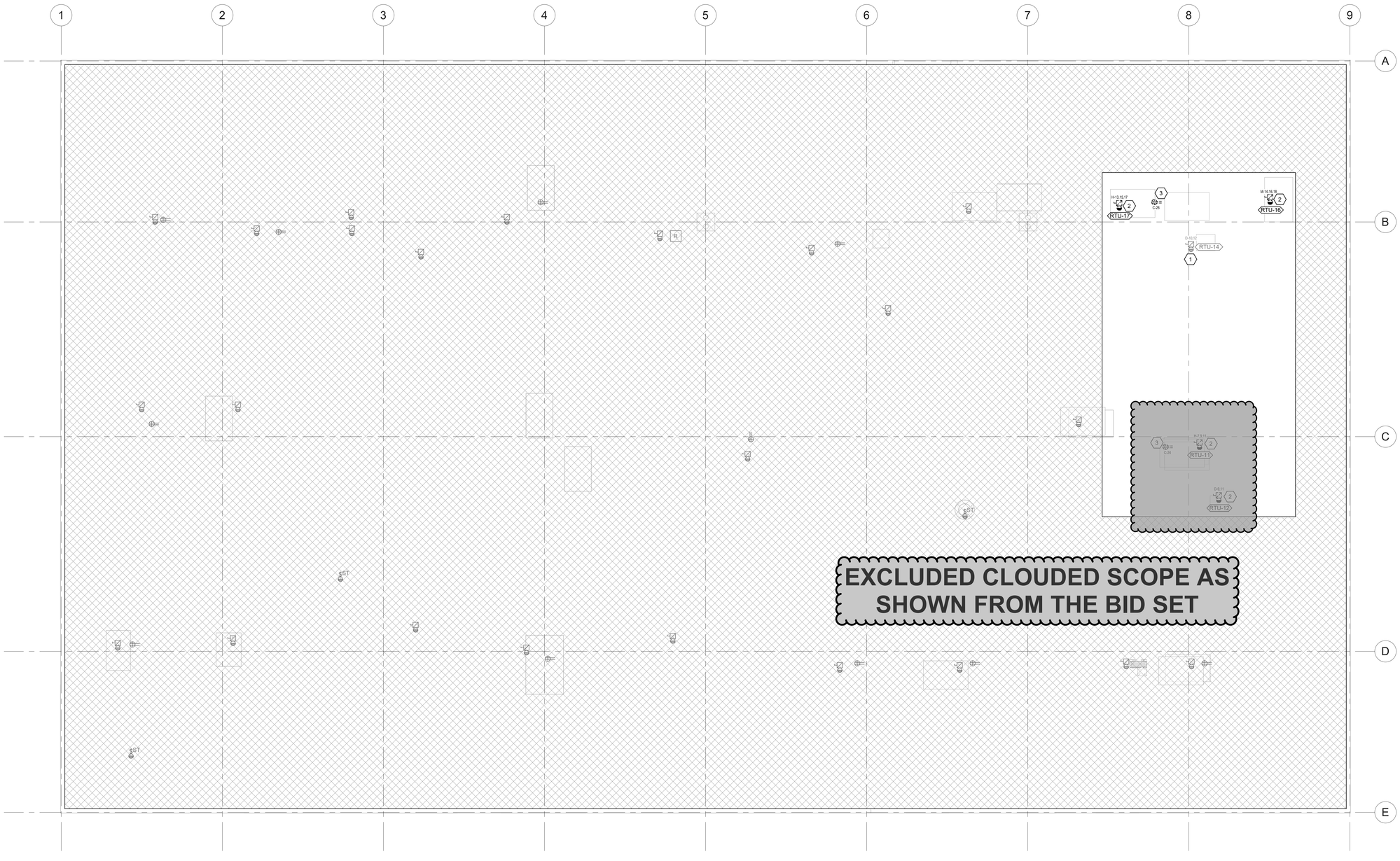
SHEET KEYNOTES

1 PROTECT AND MAINTAIN EXISTING ELECTRICAL DEVICE(S), IF OTHER DEVICES ARE BEING DEMOLISHED THAT ARE CONNECTED TO THIS DEVICE, CONNECT TO NEW CIRCUIT IF NEEDED.

2 MECHANICAL UNIT TO BE REMOVED COMPLETELY. PATCH AND REPAIR ALL PENETRATIONS.

3 DEMOLISH EXISTING OUTLET AND CABLING BACK TO PREVIOUS DEVICE. PROTECT AND MAINTAIN RACEWAY FOR NEW OUTLET.



A1 ROOF DEMOLITION PLAN
1/8" = 1'-0"

method studio
360 west aspen avenue
salt lake city, utah 84101
801 532 4422

UtahState University

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LICENSED PROFESSIONAL ENGINEER No. 5497590-2202 Christopher Kemp Nahanjuchi STATE OF UTAH

05.16.2020

SPECTRUM ENGINEERS
324 S. State St., Suite 400
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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
revisions :

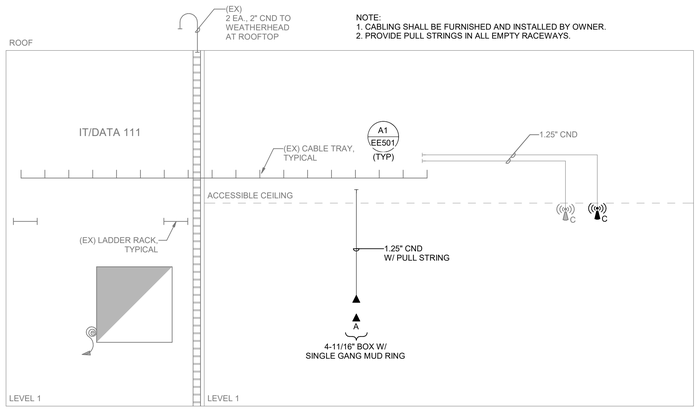
title:

ROOF DEMOLITION PLAN

sheet:

ED103

CONSTRUCTION DOCUMENT REVIEW SET



NOTE:
1. CABLING SHALL BE FURNISHED AND INSTALLED BY OWNER.
2. PROVIDE PULL STRINGS IN ALL EMPTY RACEWAYS.

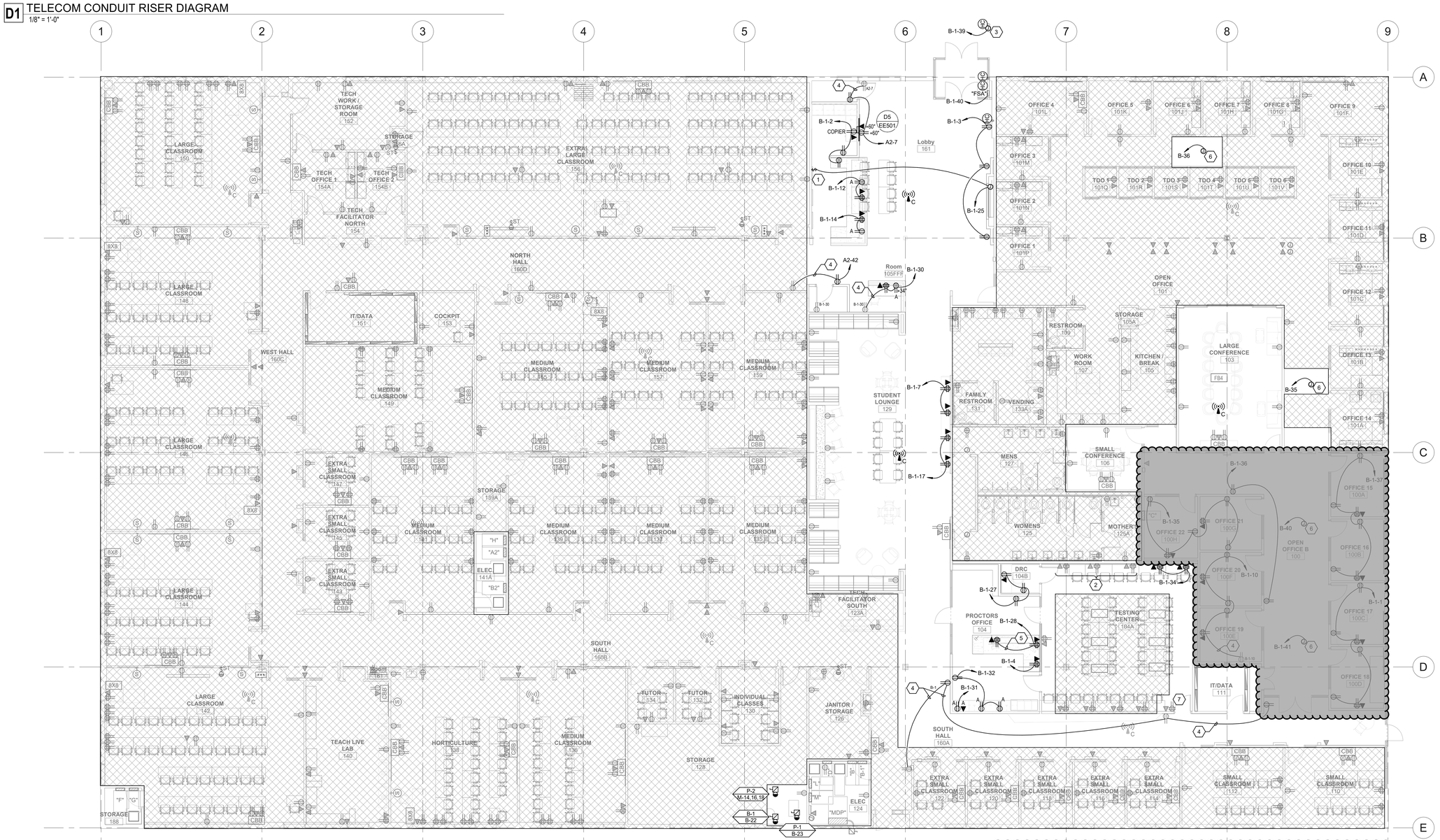
D1 TELECOM CONDUIT RISER DIAGRAM
1/8" = 1'-0"

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. INDICATED LOCATION OF MECHANICAL EQUIPMENT IS APPROXIMATE AND PROVIDED BY OTHERS. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. CONTRACTOR SHALL UPDATE ALL NEW AND EXISTING PANEL SCHEDULES WITH NEW CIRCUIT DATA. SCHEDULE SHALL BE ON A CARD STOCK TYPE OF MATERIAL AND TYPED WITH THE UPDATED INFORMATION.
4. TYPICAL FOR ALL OPEN TO STRUCTURE CEILING AREAS - POWER CABLING SHALL BE INSTALLED IN CONDUIT IN A NEAT AND PROFESSIONAL MANNER, PARALLEL AND PERPENDICULAR TO STRUCTURE WITH CONDUIT UP IN STUCTURE AND PAINTED TO MATCH SURFACE. ALL LOW VOLTAGE CABLING SHALL BE INSTALLED IN TRAY OR CONDUIT.
5. REFER TO EE501 FOR TYPICAL MOUNTING AND ALIGNMENT OF ELECTRICAL DEVICES.
6. CONTRACTOR SHALL FIELD VERIFY EACH EXISTING PANELBOARD TO CONFIRM WHERE NEW BREAKERS ARE REQUIRED AND PROVIDE AS REQUIRED.

SHEET KEYNOTES

1. POWER SWITCH FOR FIRE PLACE ON OPPOSITE WALL.
2. ALL POWER AND DATA JUNCTION BOXES SHALL BE EXTENDED TO MATCH NEW WALL FINISH LOCATION. WHERE CABLING IS LIMITED AND NOT SUFFICIENT TO TERMINATE AT NEW LOCATION CONTRACTOR SHALL PROVIDE NEW CABLING FOR POWER DEVICES.
3. POWER FOR ADA PUSH BUTTON ATTACHED TO 4" SQUARE BOLLARD POST.
4. INTERCEPT AND EXTEND EXISTING CIRCUIT TO NEW DEVICES.
5. ROUTE RACEWAYS AND CABLING THROUGH MILLWORK TO CONCEAL.
6. POWER FOR VAV BOXES IN AREA.
7. RE-INSTALL EXISTING DATA AND POWER OUTLETS IF THEY WERE REMOVED IN DEMOLITION PHASE BECAUSE OF NEW DOORWAY.



A1 LEVEL 1 POWER PLAN
1/8" = 1'-0"

EXCLUDED CLOUDED SCOPE AS SHOWN FROM THE BID SET

north

method studio
360 west aspen avenue
salt lake city, utah 84101
801 532 4422

Utah State University

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LICENSED PROFESSIONAL ENGINEER
No. 5497590-2202
Christopher Kinder
STATE OF UTAH

05.16.2020

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
revisions :

title:

LEVEL 1 POWER PLAN

sheet:

EP101

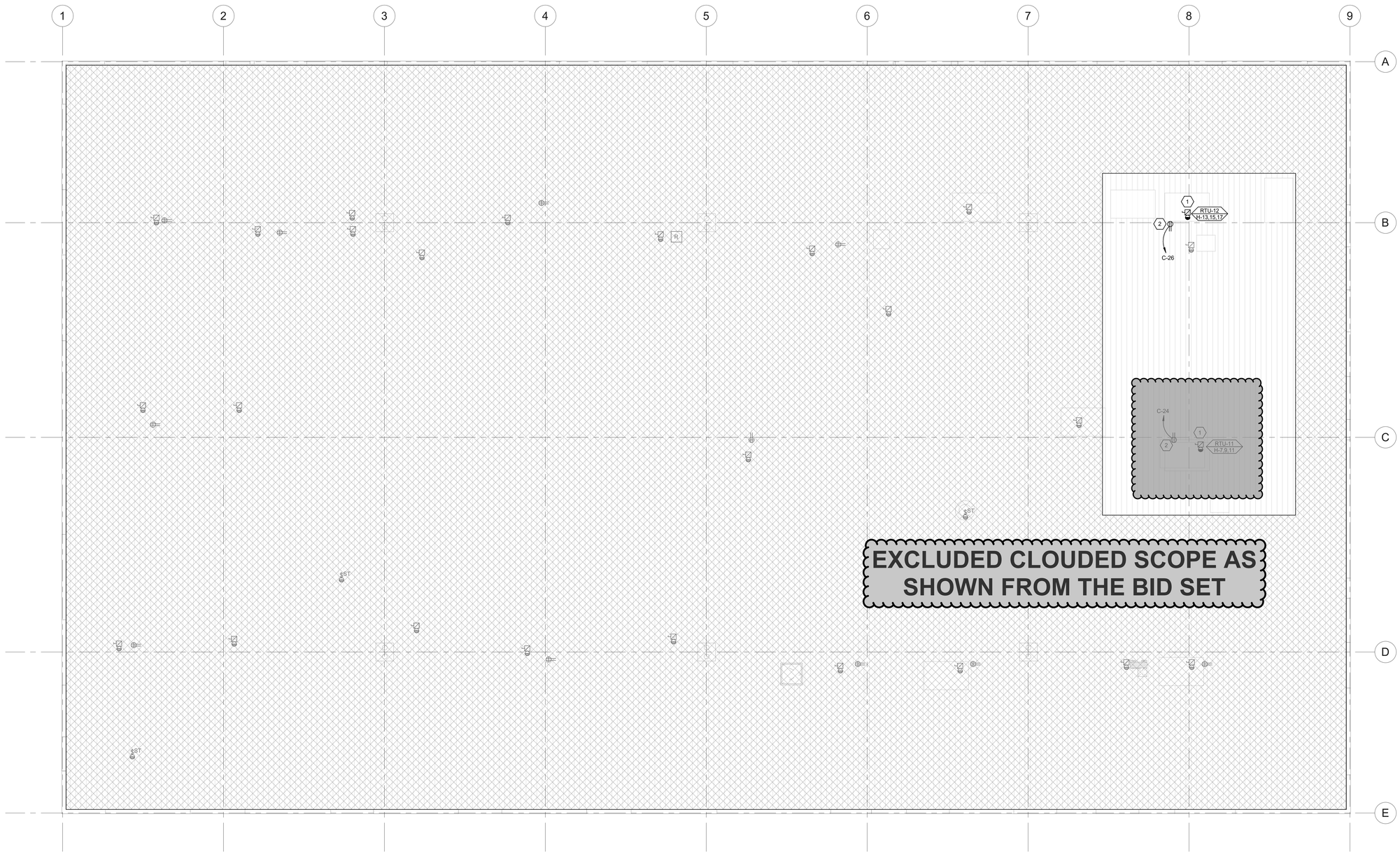
CONSTRUCTION DOCUMENT REVIEW SET

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. INDICATED LOCATION OF MECHANICAL EQUIPMENT IS APPROXIMATE AND PROVIDED BY OTHERS. COORDINATE EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
3. CONTRACTOR SHALL UPDATE ALL NEW AND EXISTING PANEL SCHEDULES WITH NEW CIRCUIT DATA. SCHEDULE SHALL BE ON A CARD STOCK TYPE OF MATERIAL AND TYPED WITH THE UPDATED INFORMATION.
4. TYPICAL FOR ALL OPEN TO STRUCTURE CEILING AREAS - POWER CABLING SHALL BE INSTALLED IN CONDUIT IN A NEAT AND PROFESSIONAL MANNER, PARALLEL AND PERPENDICULAR TO STRUCTURE WITH CONDUIT UP IN STUCTURE AND PAINTED TO MATCH SURFACE. ALL LOW VOLTAGE CABLING SHALL BE INSTALLED IN TRAY OR CONDUIT.
5. REFER TO EE501 FOR TYPICAL MOUNTING AND ALIGNMENT OF ELECTRICAL DEVICES.
6. CONTRACTOR SHALL FIELD VERIFY EACH EXISTING PANELBOARD TO CONFIRM WHERE NEW BREAKERS ARE REQUIRED AND PROVIDE AS REQUIRED.

SHEET KEYNOTES

1. ALL RACEWAYS SHALL BE PROPERLY BRACED AND ALL PENETRATIONS PATCHED AND REPAIRED.
2. EXTEND EXISTING RACEWAY TO NEW OUTLET AND RUN NEW CABLING TO EXISTING CIRCUIT DEVICES.



A1 ROOF POWER PLAN
1/8" = 1'-0"

method studio
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LICENSED PROFESSIONAL ENGINEER
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Christopher Hawes
Vaghayushi
STATE OF UTAH

05.16.2020

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
revisions :

title:

ROOF POWER PLAN

sheet:

EP102

CONSTRUCTION DOCUMENT REVIEW SET

(EX) PANEL: "H"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	200 AMPERE MAIN LUGS	ELEC. 141A	SURFACE	

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 10000

CKT	OCP		LOAD (kVA)				PHASE LOAD				LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A	B	C	DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	20	3	0.0	9.1	0.0	(EX) RTU-4	3.0	2.6		(EX) RTU-21	0.0	7.9	0.0	3	20	2
3	--	--	--	--	--	--		3.0	2.6	--	--	--	--	--	--	4
5	--	--	--	--	--	--			3.0	2.6	--	--	--	--	--	--	6
7	30	3	0.0	16.6	0.0	MTR: RTU-11	5.5	3.0		(EX) RTU-3	0.0	9.1	0.0	3	20	8
9	--	--	--	--	--	--		5.5	3.0	--	--	--	--	--	--	10
11	--	--	--	--	--	--			5.5	3.0	--	--	--	--	--	12
13	30	3	0.0	16.6	0.0	MTR: RTU-12	5.5	0.0		(EX) UNKNOWN	0.0	0.0	0.0	3	50	14
15	--	--	--	--	--	--		5.5	0.0	--	--	--	--	--	--	16
17	--	--	--	--	--	--			5.5	0.0	--	--	--	--	--	18
19	20	3	0.0	9.1	0.0	(EX) RTU-2	3.0	0.0		(EX) UNKNOWN	0.0	0.0	0.0	3	30	20
21	--	--	--	--	--	--		3.0	0.0	--	--	--	--	--	--	22
23	--	--	--	--	--	--			3.0	0.0	--	--	--	--	--	24
25	20	3	0.0	9.1	0.0	(EX) RTU-1	3.0	3.6		(EX) RTU-5	0.0	10.7	0.0	3	30	26
27	--	--	--	--	--	--		3.0	3.6	--	--	--	--	--	--	28
29	--	--	--	--	--	--			3.0	3.6	--	--	--	--	--	30
31	30	3	0.0	17.8	0.0	(EX) RTU-8	5.9	3.6		(EX) RTU-22	0.0	10.7	0.0	3	25	32
33	--	--	--	--	--	--		5.9	3.6	--	--	--	--	--	--	34
35	--	--	--	--	--	--			5.9	3.6	--	--	--	--	--	36
37	20	3	0.0	9.1	0.0	(EX) RTU-25	3.0	0.0		LTG: EXTERIOR SHED	0.0	0.0	0.0	1	20	38
39	--	--	--	--	--	--		3.0	0.0	SPARE	0.0	0.0	0.0	1	20	40
41	--	--	--	--	--	--			3.0	0.0	SPARE	0.0	0.0	0.0	1	20	42
TOTALS:						CONNECTED kVA PER PHASE	42	42	42	CONNECTED TOTAL kVA =	126					
						CONNECTED AMPS PER PHASE	151	151	151	AVERAGE CONNECTED AMPS PER PHASE =	151					

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: **0.0 kVA @ Not Computed ...** - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **130**

RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **157**

ALL OTHER LOADS @ 100% : **130.3 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

Notes:

(EX) PANEL: "B"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELEC 124	SURFACE	GE A SERIES

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 14000

CKT	OCP		LOAD (kVA)				PHASE LOAD				LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A	B	C	DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	20	1	0.0	0.0	1.1	(EX) CO ROOM 185	1.1	0.7		(EX) CO ROOM 134, 132	0.7	0.0	0.0	1	20	2
3	20	1	0.0	0.0	0.4	(EX) CO WEST DESK		0.4	0.7	(EX) CO ROOM 130	0.7	0.0	0.0	1	20	4
5	20	1	0.0	0.0	0.2	(EX) CO WEST DESK			0.2	0.7	(EX) CO ROOM 128, 126	0.7	0.0	0.0	1	20	6
7	20	1	0.0	0.0	1.2	(EX) PWR: REF STUDENT KITCHE...	1.2	0.7		(EX) CO: DRINKING FTN	0.0	0.7	0.0	1	20	8
9	20	1	0.0	0.0	0.2	(EX) CO STUDENT KITCHEN 160		0.2	0.2	(EX) CO VENDING 160A	0.2	0.0	0.0	1	20	10
11	20	1	0.0	0.0	0.5	(EX) CO STUDENT KITCHEN 160			0.5	0.5	(EX) CO ROOM 160, 160A	0.5	0.0	0.0	1	20	12
13	20	1	0.0	1.1	0.0	(EX) PWR: DISHWASHER KITCHE...	1.1	0.2		(EX) CO VENDING 160A	0.2	0.0	0.0	1	20	14
15	20	1	0.0	0.0	0.5	(EX) CO ROOM 127, 131		0.5	0.4	(EX) CO SMALL CONFERENCE 180	0.4	0.0	0.0	1	20	16
17	20	1	0.0	0.0	0.4	(EX) CO SMALL CONFERENCE 180			0.4	0.2	(EX) CO STUDENT BREAK ROOM 187	0.2	0.0	0.0	1	20	18
19	20	1	0.0	0.4	0.4	(EX) CO WOMENS 125	0.7	0.5			(EX) CO MOTHER'S ROOM 125A	0.5	0.0	0.0	1	20	20
21	20	1	0.0	0.0	0.0	(EX) LOUNGE 129		0.5	0.7		MTR: B-1	0.0	0.7	0.0	1	20	22
23	20	1	0.0	0.8	0.0	MTR: P-1			0.8	0.2	(EX) CO KITCHEN / BREAK 105	0.2	0.0	0.0	1	20	24
25	20	1	0.0	0.0	0.4	(EX) CO HORTICULTURE 138	0.4	1.2			(EX) FACULTY 105 / GARBAGE DISP	0.0	0.0	0.0	1	20	26
27	20	1	0.0	0.0	0.0	(EX) EAST ADA		0.0	0.4		(EX) CO MEDIUM CLASSROOM 136	0.4	0.0	0.0	1	20	28
29	20	1	0.0	0.0	0.0	(EX) F/A 124			0.5	0.7	(EX) PWR: DRINKING FTN LOUNGE 129	0.0	0.7	0.0	1	20	30
31	20	1	0.0	0.0	0.4	(EX) CO JANITOR / STORAGE 126	0.4	0.2			(EX) CO JANITOR/STORAGE 126	0.2	0.0	0.0	1	20	32
33	20	1	0.0	0.8	0.0	(EX) MTR WH-1 JANITOR / STRG...		0.8	0.2		(EX) CO STUDENT KITCHEN 160	0.2	0.0	0.0	1	20	34
35	20	1	0.0	0.2	0.0	PWR VAV OPEN OFFICE 101			0.2	0.2	PWR VAV OPEN OFFICE 101	0.0	0.2	0.0	1	20	36
37	100	3	0.0	0.0	0.4	16.7 (EX) PANEL C	6.8	0.4			(EX) SPRINKLER CLOCK / EXT CO	0.0	0.0	0.0	1	20	38
39	--	--	--	--	--	--		5.4	0.2		PWR VAV OPEN OFFICE B 100	0.0	0.2	0.0	1	20	40
41	--	--	--	--	--	--			5.9	--	SPACE	0.0	0.0	0.0	--	--	42
TOTALS:						CONNECTED kVA PER PHASE	16	10	11	CONNECTED TOTAL kVA =	37					
						CONNECTED AMPS PER PHASE	130	86	92	AVERAGE CONNECTED AMPS PER PHASE =	102					

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **28**

RECEPTACLES: **27.3 kVA @ 68% = 18.7 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **79**

ALL OTHER LOADS @ 100% : **6.1 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

Notes:
PROTECT AND REUSE ALL CIRCUIT BREAKERS IN THIS PANEL
REMOVE OR MATCH PAINT OVER ANY OLD CIRCUIT DESIGNATIONS
CATALOG# AQF3422MBXAXS5

(EX) PANEL: "B-1"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	225 AMPERE MAIN LUGS	ELEC 124	SURFACE	GE A SERIES

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 14000

CKT	OCP		LOAD (kVA)				PHASE LOAD				LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A	B	C	DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	20	1	0.0	0.0	1.4	CO ROOM 100C, 100D	1.4	1.9		CO LOBBY BREAK ROOM	1.9	0.0	0.0	1	20	2
3	20	1	0.0	0.0	0.5	CO LOBBY 161		0.5	0.7	(EX) CO TESTING CENTER 183	0.7	0.0	0.0	1	20	4
5	20	1	0.0	0.0	0.7	(EX) CO TESTING CENTER 183			0.7	0.7	(EX) CO TESTING CENTER 183	0.7	0.0	0.0	1	20	6
7	20	1	0.0	0.0	0.7	CO STUDENT LOUNGE 129	0.7	0.7			(EX) CO TESTING CENTER 183	0.7	0.0	0.0	1	20	8
9	20	1	0.0	0.0	0.7	(EX) CO TESTING CENTER 183			0.7	1.4	(EX) CO ROOM 104	1.4	0.0	0.0	1	20	10
11	20	1	0.0	0.0	0.4	(EX) CO TESTING CENTER 183				0.4	0.5	CO MAIN DESK LOBBY 161	0.5	0.0	0.0	1	20	12
13	20	1	0.0	0.0	0.7	(EX) CO IT/DATA 111	0.7	0.5			CO MAIN DESK LOBBY 161	0.5	0.0	0.0	1	20	14
15	20	1	0.0	0.0	0.4	(EX) CO IT/DATA 111		0.4	0.7		(EX) CO SMALL CLASSROOM...	0.7	0.0	0.0	1	20	16
17	20	1	0.0	0.0	0.7	CO STUDENT LOUNGE 129			0.7	1.4	(EX) CO ROOM 116, 114	1.4	0.0	0.0	1	20	18
19	20	1	0.0	0.0	0.5	(EX) CO SMALL CLASSROOM 112	0.5	0.5			(EX) CO SMALL CLASSROOM 110	0.5	0.0	0.0	1	20	20
21	20	1	0.0	0.0	0.7	(EX) CO SMALL CLASSROOM 112		0.7	0.7		(EX) CO SMALL CLASSROOM 110	0.7	0.0	0.0	1	20	22
23	20	1	0.0	0.0	0.7	(EX) CO IT/DATA 111			0.7	0.2	(EX) CO ELEC 124	0.2	0.0	0.0	1	20	24
25	20	1	0.0	0.2	0.0	PWR FIRE PLACE	0.2	0.2			(EX) CO HALL RM 123	0.2	0.0	0.0	1	20	26
27	20	1	0.0	0.0	0.5	CO ROOM 104B, 104		0.5	0.7		CO ROOM 104, 104B	0.7	0.0	0.0	1	20	28
29	20	1	0.0	0.2	0.0	(EX) POWER			0.2	0.9	(EX) CO NORTH HALL 160D	0.9	0.0	0.0	1	20	30
31	20	1	0.0	0.0	1.5	CO PRINTER PROCTORS 104	1.5	0.5			CO PROCTOR OFFICE 104	0.5	0.0	0.0	1	20	32
33	20	1	0.0	0.0	0.7	(EX) CO TESTING CENTER 183		0.7	0.7		(EX) CO TESTING CENTER 104A	0.7	0.0	0.0	1	20	34
35	20	1	0.0	0.0	1.4	CO ROOM 100G, 100H			1.4	0.4	CO OPEN OFFICE B 100	0.4	0.0	0.0	1	20	36
37	20	1	0.0	0.0	1.4	CO ROOM 100A, 100B	1.4	1.4			(EX) CO ROOM 120, 118	1.4	0.0	0.0	1	20	38
39	20	1	0.0	0.2	0.0	PWR MAIN ENTRY ADA PEDESTAL		0.2	0.5		FSA PANEL	0.0	0.5	0.0	1	20	40
41	20	1	0.0	0.2	0.0	PWR VAV OPEN OFFICE B 100			0.2	0.0	SPARE	0.0	0.0	0.0	1	20	42
TOTALS:						CONNECTED kVA PER PHASE	12	9	8	CONNECTED TOTAL kVA =	30					
						CONNECTED AMPS PER PHASE	104	79	71	AVERAGE CONNECTED AMPS PER PHASE =	82					

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **20**

RECEPTACLES: **28.9 kVA @ 67% = 19.5 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **56**

ALL OTHER LOADS @ 100% : **0.7 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

Notes:
PROTECT AND REUSE ALL CIRCUIT BREAKERS IN THIS PANEL
REMOVE OR MATCH PAINT OVER ANY OLD CIRCUIT DESIGNATIONS
CATALOG# AQR3422MB

(EX) PANEL: "M"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
480/277 V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	400 AMPERE MAIN LUGS	ELEC 124	SURFACE	GE A SERIES

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 14000

CKT	OCP		LOAD (kVA)				PHASE LOAD				LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A	B	C	DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	30	3	0.0	18.8	0.0	(EX) RTU-20	6.3	3.6		(EX) MTR RTU-10	0.0	10.7	0.0	3	20	2
3	--	--	--	--	--	--		6.3	3.6	--	--	--	--	--	--	4
5	--	--	--	--	--	--			6.3	3.6	--	--	--	--	--	6
7	20	3	0.0	10.7	0.0	(EX) RTU-9	3.6	2.6		(EX) RTU-13	0.0	7.9	0.0	3	20	8
9	--	--	--	--	--	--		3.6	2.6	--	--	--	--	--	--	10
11	--	--	--	--	--	--			3.6	2.6	--	--	--	--	--	12
13	30	3	0.0	15.3	0.0	(EX) RTU-23	5.1	0.6		MTR: P-2	0.0	1.7	0.0	3	20	14
15	--	--	--	--	--	--		5.1	0.6	--	--	--	--	--	--	16
17	--	--	--	--	--	--			5.1	0.6	--	--	--	--	--	18
19	20	3	0.0	9.1	0.0	(EX) RTU-18	3.0	8.0		(EX) RTU-6	0.0	24.1	0.0	3	30	20
21	--	--	--	--	--	--		3.0	8.0	--	--	--	--	--	--	22
23	--	--	--	--	--	--			3.0	8.0	--	--	--	--	--	24
25	20	3	0.0	9.1	0.0	(EX) RTU-7	3.0	--		SPACE	0.0	0.0	0.0	1	--	26
27	--	--	--	--	--	--		3.0	--	SPACE	0.0	0.0	0.0	1	--	28
29	--	--	--	--	--	--			3.0	--	SPACE	0.0	0.0	0.0	1	--	30
31	20	3	0.0	7.9	0.0	(EX) RTU-19	2.6	3.0		(EX) RTU-24	0.0	9.1	0.0	3	20	32
33	--	--	--	--	--	--		2.6	3.0	--	--	--	--	--	--	34
35	--	--	--	--	--	--			2.6	3.0	--	--	--	--	--	36
37	--	1	0.0	0.0	0.0	SPACE	--	--		SPACE	0.0	0.0	0.0	1	--	38
39	--	1	0.0	0.0	0.0	SPACE		--	--	SPACE	0.0	0.0	0.0	1	--	40
41	--	1	0.0	0.0	0.0	SPACE			--	--	SPACE	0.0	0.0	0.0	1	--	42
TOTALS:						CONNECTED kVA PER PHASE	41	41	41	CONNECTED TOTAL kVA =	124					
						CONNECTED AMPS PER PHASE	150	150	150	AVERAGE CONNECTED AMPS PER PHASE =	150					

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **130**

RECEPTACLES: - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **157**

ALL OTHER LOADS @ 100% : **130.5 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

Notes:
PROTECT AND REUSE CIRCUIT BREAKER FOR THE FOLLOWING CIRCUITS- 1,3,5,13,15,17 ,38,40,42 — CATALOG# AEF3424MBXAXS5
PROVIDE NEW BREAKER COMPATIBLE WITH PANEL FOR CIRCUITS- 7,9,11,2,4,6,8,10,12,19,21,23,25,27,29,37,39,41
MAINTAIN EXISTING BREAKER AS A SPARE FOR CIRCUITS-31,33,35,32,34,36,14,16,18
REFER TO PANEL AIC VALUES FOR BREAKER AIC RATINGS — **CLEAN OR PAINT MATCH OVER ANY OLD BREAKER DESIGNATION**

(EX) PANEL: "C"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	125 AMPERE MAIN LUGS	TDO 1 101O	SURFACE	GE A SERIES

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 14000

CKT	OCP		LOAD (kVA)				PHASE LOAD				LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A	B	C	DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	20	1	0.0	0.0	1.1	(EX) CO ROOM 101M, 101N	1.1	1.3		(EX) CO ROOM 101J, 101I	1.3	0.0	0.0	1	20	2
3	20	1	0.0	0.0	1.3	(EX) CO ROOM 101K, 101L		1.3	1.3	(EX) CO ROOM 101H, 101G	1.3	0.0	0.0	1	20	4
5	20	1	0.0	0.0	1.4	(EX) CO ROOM 101D, 101C			1.4	1.4	(EX) CO ROOM 101F, 101E	1.4	0.0	0.0	1	20	6
7	20	1	0.0	0.0	1.3	(EX) CO ROOM 101B, 101A	1.3	0.7			(EX) CO ROOM 101G, 101P	0.7	0.0	0.0	1	20	8
9	20	1	0.0	0.2	0.0	(EX) CUBICLES		0.2	0.7		(EX) CO ROOM 101S, 101T	0.7	0.0	0.0	1	20	10
11	20	1	0.0	0.2	0.0	(EX) CUBICLES			0.2	0.7	(EX) CO ROOM 101Q, 101R	0.7	0.0	0.0	1	20	12
13	20	1	0.0	0.0	0.7	(EX) CO LARGE CONFERENCE 179	0.7	0.4			(EX) CO LARGE CONFERENCE 179	0.4	0.0	0.0	1	20	14
15	20	1	0.0	0.0	0.5	(EX) CO KITCHEN / BREAK 105		0.5	0.5		(EX) CO RESTROOM 109	0.5	0.0	0.0	1	20	16
17	20	1	0.0	0.0	0.9	(EX) CO KITCHEN / BREAK 105			0.9	0.7	(EX) CO WORK ROOM 158	0.7	0.0	0.0	1	20	18
19	20	1	0.0	0.0	0.0	(EX) RECEPTION 102	0.5										20
21	40	2	0.0	0.0	0.0	SPARE		0.0	0.4		(EX) FLBOX: LARGE CONFERENCE 103	0.4	0.0	0.0	1	20	22
23	--	--	--	--	--	--			0.0	0.4	(EX) ROOF OUTLETS	0.4	0.0	0.0	1	20	24
25	20	1	0.0	0.0	0.2	(EX) CO WORK ROOM 107	0.2	0.7			(EX) ROOF OUTLETS	0.7	0.0	0.0	1	20	26
27	20	1	0.0	0.0	0.0	(EX) LOBBY 100		0.5	0.0		SPARE	0.0	0.0	0.0	1	20	28
29	20	1	0.0	0.0	0.2	(EX) CO OFFICE 4 101K				0.2	0.0	SPARE	0.0	0.0	0.0	1	20	30
TOTALS:						CONNECTED kVA PER PHASE	7	5	6	CONNECTED TOTAL kVA =	18					
						CONNECTED AMPS PER PHASE	57	45	50	AVERAGE CONNECTED AMPS PER PHASE =	50					

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **15**

RECEPTACLES: **16.7 kVA @ 80% = 13.4 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **41**

ALL OTHER LOADS @ 100% : **0.4 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

Notes:
PROTECT AND REUSE CIRCUIT BREAKERS IN THIS PANEL
REMOVE OR MATCH PAINT OVER ANY OLD CIRCUIT DESIGNATIONS
CATALOG# AQF3301MBXAXS5

(EX) PANEL: "D"

VOLTS/PHASE/WIRE:	PANEL SIZE & TYPE:	MAIN SIZE AND TYPE:	LOCATION:	CABINET:	NOTES:
120/208V, 3 PH 4 WIRE	22" W x 6" D, BOLT-ON	125 AMPERE MAIN LUGS	ELEC 124	SURFACE	GE A SERIES

ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR — AIC RATING: 14000

CKT	OCP		LOAD (kVA)				PHASE LOAD				LOAD (kVA)			OCP		CKT
NO	AMP	POLE	LTG	PWR	CO	DESCRIPTION	A	B	C	DESCRIPTION	CO	PWR	LTG	POLE	AMP	NO
1	40	2	0.0	4.2	0.0	(EX) CU-1	2.1	2.1		(EX) CU-2	0.0	4.2	0.0	2	40	2
3	--	--	--	--	--	--		2.1	2.1	--	--	--	--	--	--	4
5	30	2	0.0	3.9	0.0	(EX) RTU-15			2.0	1.5	(EX) CU-3	0.0	3.0	0.0	2	20	6
7	--	--	--	--	--	--	2.0	1.5			--	--	--	--	--	--	8
9	30	2	0.0	0.0	0.0	SPARE		0.0	2.0		(EX) RTU-14	0.0	3.9	0.0	2	30	10
11	--	--	--	--	--	--			0.0	2.0	--	--	--	--	--	--	12
13	20	1	0.0	1.2	0.0	(EX) EF-2	1.2	0.0			SPARE	0.0	0.0	0.0	1	20	14
15	20	1	0.0	0.8	0.0	(EX) EF-1B		0.8	0.0		SPARE	0.0	0.0	0.0	1	20	16
17	20	1	0.0	0.8	0.0	(EX) EF-1A			0.8	0.0	SPARE	0.0	0.0	0.0	1	20	18
19	20	1	0.0	0.0	0.4	(EX) CO ROOF	0.4	0.0			SPARE	0.0	0.0	0.0	2	20	20
21	20	1	0.0	0.0	0.0	(EX) LOBBY LTG / SOUTH ADA		0.0	0.0		--	--	--	--	--	--	22
23	20	1	0.0	0.0	0.0	SPARE			0.0	0.0	SPARE	0.0	0.0	0.0	1	20	24
25	20	1	0.0	0.0	0.0	SPARE	0.0	0.0			SPARE	0.0	0.0	0.0	1	20	26
27	--	1	0.0	0.0	0.0	SPACE		--	0.0		SPARE	0.0	0.0	0.0	1	20	28
29	20	1	0.0	0.0	0.2	(EX) CO ELEC 124				0.2	--	SPACE	0.0	0.0	0.0	1	--	30
31	100	3	0.0	0.0	0.0	(EX) MAIN	0.0	--			SPACE	0.0	0.0	0.0	1	--	32
33	--	--	--	--	--	--		0.0	--		SPACE	0.0	0.0	0.0	1	--	34
35	--	--	--	--	--	--			0.0	--	SPACE	0.0	0.0	0.0	1	--	36
TOTALS:						CONNECTED kVA PER PHASE	9	7	6	CONNECTED TOTAL kVA =	22					
						CONNECTED AMPS PER PHASE	77	58	53	AVERAGE CONNECTED AMPS PER PHASE =	62					

NEC DIVERSIFIED LOAD CALCULATIONS

LIGHTING & CONTINUOUS LOADS: - 100% CONNECTED LOAD PLUS 25% — DIVERSIFIED TOTAL kVA = **23**

RECEPTACLES: **0.5 kVA @ 100% = 0.5 kVA** - FIRST 10kVA @ 100%, REMAINDER @ 50% — AVERAGE AMPS PER PHASE = **65**

ALL OTHER LOADS @ 100% : **22.9 kVA** - MOTOR TOTALS INCLUDED IN ALL OTHER LOADS WITH LARGEST MOTOR CALCULATED @ 125% PER NEC

Notes:
PROVIDE NEW BREAKER COMPATIBLE WITH PANEL FOR CIRCUITS- 1,3,5,7,9,11,2,4,6,8,10,12
MAINTAIN EXISTING B

EQUIPMENT SCHEDULE

EQUIPMENT SCHEDULE KEY
E - DIVISION 26
Q - FURNISHED WITH EQUIPMENT
* - COORDINATE WITH THE DIVISION 23 TEMPERATURE CONTROL INSTALLER
** - AUTOMATIC CONTROL WIRING BY DIVISION 23

EQUIPMENT NOTES:
1. PROVIDE NEMA 3R ENCLOSURE FOR EQUIPMENT.
2. MANUAL STARTER WITH THERMAL OVERLOAD PROTECTION & LOW VOLTAGE RELAY/CONTACT FOR ATC CONTROLLER, PROVIDED BY DIVISION 26.
3. PROVIDE WITH 30 mA GROUND FAULT PROTECTED BREAKER.
4. PROVIDE POWER FEED BETWEEN INDOOR AND OUTDOOR UNITS AS REQUIRED.

			LOAD DATA							OVERCURRENT PROTECTION			DISCONNECT			STARTER									
MARK	QTY	ITEM DESCRIPTION	HP	kW	MCA	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
B-1	1	BOILER	-	-	5	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	B	E	30A/1P FRS-20	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	-	B-1
P-1	1	PUMP	1/4	-	-	120	1	60	2 #12, 12 GR 0.75" CND	E	20/1 CB	B	E	-	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	-	P-1
P-2	1	PUMP	1	-	-	480	3	60	3 #12, #12GR 0.75" CND	E	20/3 CB	M	E	30A/3P FRS-6	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	-	P-2
RTU-11	1	ROOFTOP UNIT	-	-	20	480	3	60	3 #10, #10 GR 0.75" CND	E	30/3 CB	H	E	30A/3P FRS-25	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	-	RTU-11
RTU-12	1	ROOFTOP UNIT	-	-	20	480	3	60	3 #10, #10 GR 0.75" CND	E	30/3 CB	H	E	30A/3P FRS-25	ADJ TO EQUIP	Q	-	-	-	-	-	-	-	-	RTU-12

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05.16.2020

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
revisions :

title:

EQUIPMENT SCHEDULE

sheet:

EP602

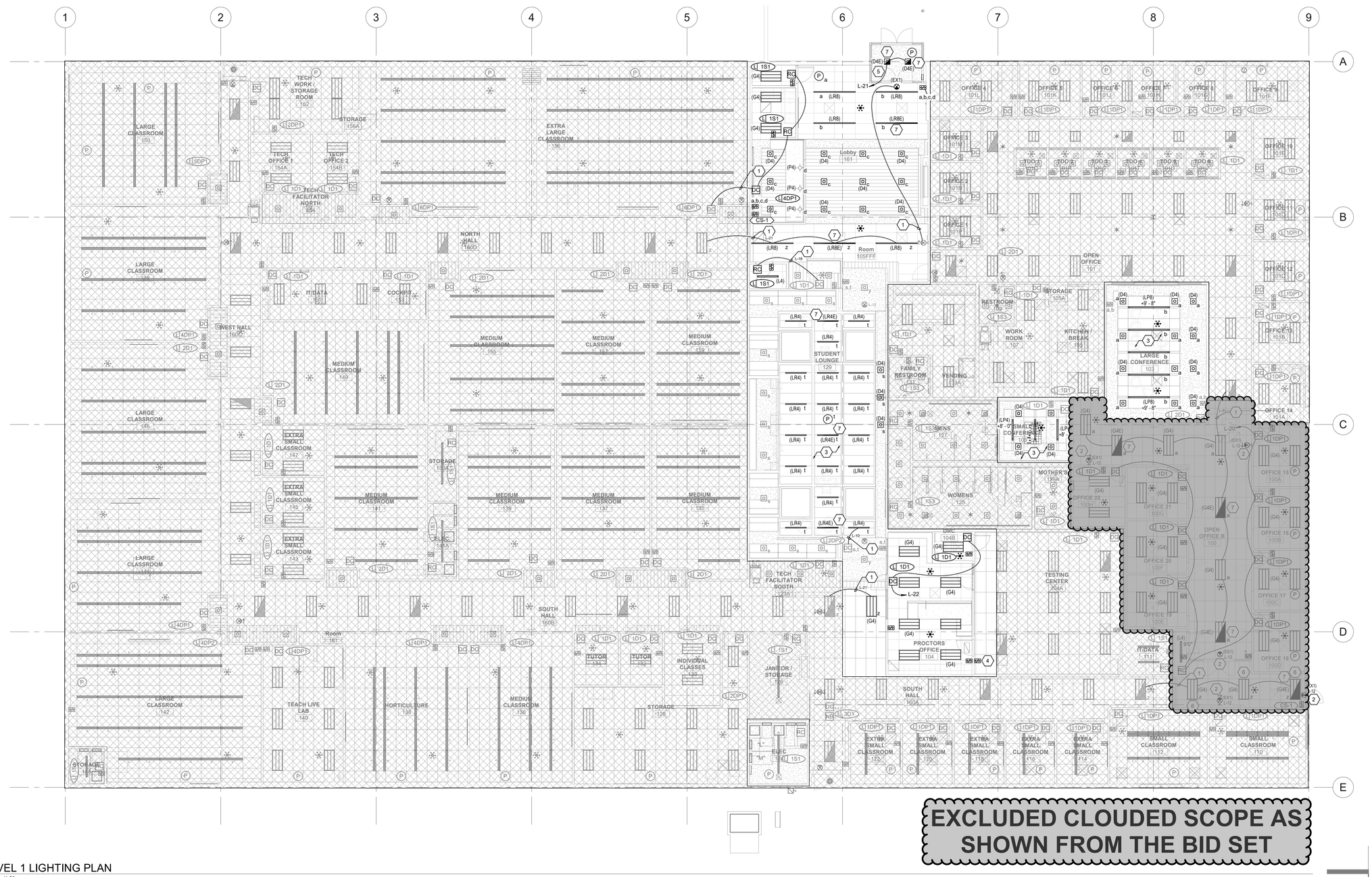
CONSTRUCTION DOCUMENT REVIEW SET

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 REMIAN.
2. COORDINATE LOCATIONS AND MOUNTING HEIGHTS OF ALL LIGHT FIXTURES ON THIS LEVEL WITH MECHANICAL EQUIPMENT, DUCT, PIPE, PLUMBING, ETC. PRIOR TO ROUGH-IN.
3. CONTRACTOR SHALL UPDATE PANEL SCHEDULES WITH NEW CIRCUIT DATA TYPED ON CARD STOCK TYPE MATERIAL.
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. REFER TO EE501 FOR TYPICAL MOUNTING AND ALIGNMENT OF ELECTRICAL DEVICES.
8. CONTRACTOR SHALL INSTALL INDIVIDUAL CONDUIT RUNS WITH UNSWITCHED HOT WIRE FROM ALL BATTERY PACKS TO EACH INDIVIDUAL EMERGENCY LIGHT.
9. EXISTING CIRCUIT INFORMATION SHOWN ON PLANS COME FROM AS-BUILTS AND ARE FOR REFERENCE ONLY.

SHEET KEYNOTES

1. INTERCEPT AND EXTEND EXISTING LIGHTING CIRCUIT AND CONTROLS TO NEW DEVICES.
2. INTERCEPT AND EXTEND TO CLOSEST EXISTING EXIT SIGN RACEWAY AND CABLING.
3. CONNECT NEW LIGHTING FIXTURES AND DEVICES IN THIS AREA TO EXISTING CONTROLLER.
4. CONNECT NEW LIGHTING CONTROL SWITCH TO EXISTING CONTROLS IN TESTING CENTER 104A.
5. VESTIBULE LIGHTING DEVICES REQUIRE NEW FEEDER AND CONTROLS FOR NEW CIRCUIT. SEE NETWORK LIGHTING CONTROL SCHEDULE ON SHEET EL601.
6. INSTALL EXISTING LIGHT FIXTURE REMOVED DURING DEMOLITION PHASE.
7. PROVIDE UN-SWITCHED HOT WIRE TO EMERGENCY FIXTURE.


LARGE CLASSROOM 159
TECH WORK / STORAGE ROOM 162
STORAGE 156A
TECH OFFICE 1 154A
TECH OFFICE 2 154B
TECH FACILITATOR NORTH 154
EXTRA LARGE CLASSROOM 136
LARGE CLASSROOM 158
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NORTH HALL 160D
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MEDIUM CLASSROOM 150
MEDIUM CLASSROOM 151
MEDIUM CLASSROOM 152
MEDIUM CLASSROOM 149
LARGE CLASSROOM 146
EXTRA SMALL CLASSROOM 147
EXTRA SMALL CLASSROOM 145
EXTRA SMALL CLASSROOM 143
STORAGE 139
ELEC 144A
MEDIUM CLASSROOM 141
MEDIUM CLASSROOM 139
MEDIUM CLASSROOM 137
MEDIUM CLASSROOM 135
LARGE CLASSROOM 147
LARGE CLASSROOM 142
Room 161
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STORAGE 126
STORAGE 155
SOUTH HALL 160B
TUTOR 134
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Lobby 161
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STUDENT LOUNGE 129
FAMILY RESTROOM 133
VENDING 133A
WOMENS 127
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TECH FACILITATOR SOUTH 123A
DMC 104B
PROCTORS OFFICE 104
SOUTH HALL 160A
ELEC
EXTRA SMALL CLASSROOM 122
EXTRA SMALL CLASSROOM 120
EXTRA SMALL CLASSROOM 119
EXTRA SMALL CLASSROOM 116
EXTRA SMALL CLASSROOM 114
SMALL CLASSROOM 112
SMALL CLASSROOM 110
OFFICE 4 101L
OFFICE 5 101K
OFFICE 6 101J
OFFICE 7 101H
OFFICE 8 101G
OFFICE 9 101F
OFFICE 3 101M
OFFICE 2 101N
OFFICE 1 101P
OFFICE 10 101E
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OFFICE 12 101C
OFFICE 13 101B
OFFICE 14 101A
OPEN OFFICE 101
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STORAGE 105A
WORK ROOM 107
KITCHEN / BREAK 155
LARGE CONFERENCE 103
SMALL CONFERENCE 127
MOTHER'S 125A
OFFICE 22 100H
OFFICE 21 100G
OPEN OFFICE B 100
OFFICE 20 100F
OFFICE 19 100E
OFFICE 15 100A
OFFICE 16 100B
OFFICE 17 100C
OFFICE 18 100D
TESTING CENTER X64A
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INTERIOR LIGHTING FIXTURE SCHEDULE

ABBREVIATIONS

LUMINAIRE OPTIONS

ARHR	-	AIR RETURN AND HEAT REJECTION
DL	-	DAMP LOCATION
EQC	-	EARTHQUAKE CLIPS
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
CH	-	CHANNEL
F	-	FLANGE
G	-	GRID
P	-	PENDANT
PL	-	POLE
R	-	RECESSED
S	-	SURFACE
W	-	WALL

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

BALLAST NOTATION

ANSI WATTS = Maximum Wattage at Connected Voltage

BB-#L: BB = Ballast Type, #L = Number of Lamps

Example: PS-2L = (2) Lamp, Program Start 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 209D	-	MEETS FEDERAL STANDARD 209D
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

OPTICS

PRF	-	PERFORATED DIFFUSER
DT	-	DETENTION
BC	-	BLACK CONE
BB	-	BLACK BAFFLE
WB	-	WHITE BAFFLE
VGL	-	VERTICAL GRAIN LOUVERS
PPL	-	LOUVERS IN PLASTIC PROTECTOR
WW	-	WALL WASH
ESL	-	ELECTROSTATIC SHIELDED LENS

OPTIONS

1. APPROXIMATELY TWO 4FT SECTIONS OF TAPE LIGHT FOR SIDES OF SIGNAGE. APPROXIMATELY ONE 14FT SECTION OF TAPE LIGHT FOR TOP CHANNEL. VERIFY ACTUAL LENGTHS WITH SIGNAGE INSTALLER.

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

CIE CLASSIFICATIONS

DIR	-	DIRECT LIGHTING
SD	-	SEMIDIRECT LIGHTING
GEN	-	GENERAL DIFFUSE
SI	-	SEMI-INDIRECT LIGHTING
IND	-	INDIRECT LIGHTING
ADJ	-	ADJUSTABLE

NOTES

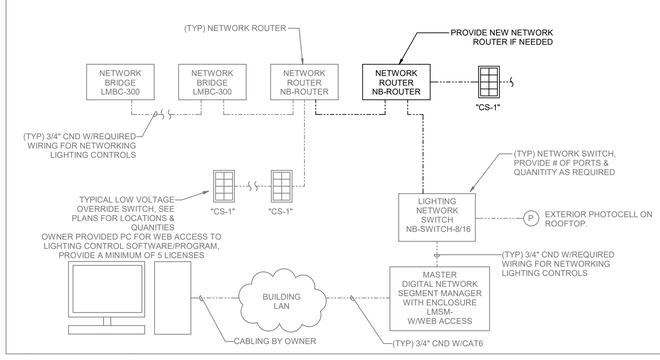
1. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT 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 "INTERIOR 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.

LIGHTING FIXTURE SCHEDULE - INTERIOR

	LUMINAIRE							LAMP			BALLAST					FINISH			OPTICS					MANUFACTURER (CATALOG SERIES)			
		NOMINAL SIZE											CONNECTED														
ID	TYPE	LENGTH	WIDTH	MAX DEPTH	DIAMETER/ APERTURE	MOUNTING	OPTIONS	TYPE	LAMP COLOR	LAMP LUMENS	CONFIGURATION	VOLTAGE	VOLTS	WATTS	OPTIONS	HOUSING	TRIM	OTHER	CIE TYPE	FINISH	DIFFUSER	REFLECTOR	OPTIONS	OPTION 1	OPTION 2	OPTION 3	OPTION 4
(D4)	4" LED DOWNLIGHT	-	-	6"	4"	CR	ST	LED	4000K	1300	LED (0-10V DIMMING) 1% DIMMING	120/277	277	18	1% DIM	S	CBA	-	DIR	CBA	-	-	-	LITHONIA (LDN4)	LIGHTOLIER (Z4RDL)	HALO (HC4)	VANTAGE LTG (V40FCR)
(D4E)	4" LED DOWNLIGHT WITH EMERGENCY BATTERY PACK	-	-	6"	4"	CR	ST, EB	LED	4000K	1300	LED (0-10V DIMMING) 1% DIMMING	120/277	277	18	1% DIM	S	CBA	-	DIR	CBA	-	-	-	LITHONIA (LDN4)	LIGHTOLIER (Z4RDL)	HALO (HC4)	VANTAGE LTG (V40FCR)
(EX1)	LED EDGE LIT EXIT SIGN (SINGLE FACE) WITH EMERGENCY BATTERY PACK, REFER TO PLANS FOR ARROWS DIRECTIONS AND QUANTITY	14"	7"	1/2"	-	W,C,S, P	EB	LED	GREEN	-	LED DRIVER	120/277	277	1	-	EA	CBA	-	-	-	-	-	-	LITHONIA (LE-S)	PHILIPS (CN)	<varies>	<varies>
(G4)	2X4 LED TROFFER, CEILING GRID FIXTURE	4'	2'	5"	-	C,G	ST	LED	4000K	4000	LED (0-10V DIMMING) 1% DIMMING	120/277	277	32	1% DIM	S	CBA	-	GEN	CBA	-	-	-	LITHONIA (2BLT4)	DAY-BRITE (2FGX)	METALUX (24CZ2)	COLUMBIA LTG (LCAT24)
(G4E)	2X4 LED TROFFER, CEILING GRID FIXTURE WITH EMERGENCY BATTERY PACK	4'	2'	5"	-	C,G	ST, EB	LED	4000K	4000	LED (0-10V DIMMING) 1% DIMMING	120/277	277	32	1% DIM	S	CBA	-	GEN	CBA	-	-	-	LITHONIA (2BLT4)	DAY-BRITE (2FGX)	METALUX (24CZ2)	COLUMBIA LTG (LCAT24)
(L4)	GENERIC LED STRIP WITH SUSPENSION CABLES	4'	2.5"	3"	-	C,P	ST	LED	4000K	5000	LED DRIVER (0-10V DIMMING)	120/277	277	41	-	S	CBA	-	DIR	CBA	-	-	-	LITHONIA (ZL1D)	PHILIPS (FSS)	METALUX (4SNLED)	COLUMBIA LTG (CSL4)
(LP4)	LED LINEAR PENDANT POP-DOWN WITH SUSPENSION CABLES	4'	2.66"	4.5"	3"	C,P	ST	LED	4000K	1500	LED DRIVER (0-10V DIMMING)	120/277	277	23	1% DIM	EA	CBA	-	DIR	CBA	-	-	-	LEGRAND (FSM2L)	XAL (TUBO 4.0)	LUMIUM (O3.3)	LUMENWERX (RE)
(LP8)	LED LINEAR PENDANT POP-DOWN WITH SUSPENSION CABLES	8'	2.66"	4.5"	-	C,P	ST	LED	4000K	3000	LED (0-10V DIMMING) 1% DIMMING	120/277	277	46	1% DIM	EA	CBA	-	DIR	CBA	-	-	-	LEGRAND (FSM2L)	AXIS LTG (TB2DILED)	CORELITE (J3)	LITECONTROL (SAE)
(LR4)	LED LINEAR RECESSED, WITH 1/2" DROP LENS, GYP TRIM KIT	4'	2.66"	4.5"	-	C,R,G	ST, EQC	LED	4000K	2500	LED (0-10V DIMMING) 1% DIMMING	120/277	277	41	1% DIM	EA	CBA	-	DIR	CBA	-	-	-	LEGRAND (FSM2L)	AXIS LTG (BBRLED)	NEO-RAY (S122DR)	LITECONTROL (2L)
(LR4E)	LED LINEAR RECESSED, WITH 1/2" DROP LENS, GYP TRIM KIT WITH EMERGENCY BATTERY PACK	4'	2.66"	4.5"	-	C,R,G	ST, EQC, EB	LED	4000K	2500	LED (0-10V DIMMING) 1% DIMMING	120/277	277	41	1% DIM	EA	CBA	-	DIR	CBA	-	-	-	LEGRAND (FSM2L)	AXIS LTG (BBRLED)	NEO-RAY (S122DR)	LITECONTROL (2L)
(LR8)	LED LINEAR RECESSED, WITH 1/2" DROP LENS, GYP TRIM KIT	8'	2"	5"	-	C,R,G	ST, EQC	LED	4000K	5000	LED (0-10V DIMMING) 1% DIMMING	120/277	277	82	1% DIM	EA	CBA	-	DIR	CBA	-	-	-	LEGRAND (FSM2L)	AXIS LTG (BBRLED)	NEO-RAY (S122DR)	LITECONTROL (2L)
(LR8E)	LED LINEAR RECESSED, WITH 1/2" DROP LENS, GYP TRIM KIT WITH EMERGENCY BATTERY PACK	8'	2"	5"	-	C,R,G	ST, EQC	LED	4000K	5000	LED (0-10V DIMMING) 1% DIMMING	120/277	277	82	1% DIM	EA	CBA	-	DIR	CBA	-	-	-	LEGRAND (FSM2L)	AXIS LTG (BBRLED)	NEO-RAY (S122DR)	LITECONTROL (2L)
(OE)	ROUND LED, SURFACE MOUNTED, WET LISTED WITH REMOTE BATTERY PACK (EXTERIOR PATIO)	-	-	9.83"	16.39"	C	EB	LED	4000K	2334	LED DRIVER (0-10V DIMMING)	120/277	277	26	10% DIM	EA	CBA	-	GEN	CBA	-	-	-	G LIGHTING (3350)	BRILLIANTE (BRL16)	LIGMAN (LD)	PRESCOLITE (LBSES)
(P4)	4" CIRCULAR PENDANT FIXTURE	-	-	18"	4"	C,P	-	LED	4000K	1300	LED (0-10V DIMMING) 1% DIMMING	120/277	277	11	1% DIM	S	CBA	-	DIR	CBA	-	-	-	LUMENART (APD.54)	NORA LTG (NYLM)	CALIBER PLUS (C73)	LUMENWERX (AE4CYP)
(T2)	LED TAPE LIGHT (REQUIRES CHANNELING)	APPROX 22'	0.64"	0.24"	-	CH	-	LED	3500K	8260	LED DRIVER	120/277	24	58	-	CH	CBA	-	-	CBA	-	-	1	KELVIX (UNI-WL)	OMNI LIGHT (GEN2)	Q-TRAN (TO3SW)	ACOLYTE (RB)

NETWORK LIGHTING CONTROL DIAGRAM



A2 NETWORK LIGHTING DIAGRAM
NTS

LOW VOLTAGE PUSH-BUTTON SCHEDULE

SWITCH ID: CS-1

LV SWITCH	BUTTON	ZONES/RELAYS CONTROLLED	CONTROL DESCRIPTION	LABEL ID
6-BUTTON	1	LEVEL 1 CORRIDOR LIGHTING	MANUAL OVERRIDE ON FOR 2 HRS	1
	2	LOBBY AND MAIN RECEPTION AREA LIGHTING	MANUAL OVERRIDE ON FOR 2 HRS	2
	3	EXTERIOR ENTRYWAY LIGHTING	ON/OFF WITH PHOTOCELL	3
	4	**EAST ENTRANCE VESTIBULE LIGHTING**	**ON/OFF WITH PHOTOCELL**	4
	5	TO BE DETERMINED	SPARE, PROGRAM AS DIRECTED BY OWNER	5
	6	TO BE DETERMINED	SPARE, PROGRAM AS DIRECTED BY OWNER	AS DIRECTED

APPROVED LIGHTING CONTROLS MANUFACTURERS	GENERAL REQUIREMENTS AND NOTES
1. WATTSTOPPER (BASIS OF DESIGN)	1. COORDINATE INITIAL PROGRAMMING REQUIREMENTS AND SETTINGS WITH OWNER AND MODIFY PROGRAMMING, CONTROL TIMES, AND OPERATION AS DIRECTED BY OWNER.
2.NLIGHT	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 ENGRAVED 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.

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05.16.2020

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USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
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title:

LIGHTING FIXTURE SCHEDULE

sheet:

EL601

CONSTRUCTION DOCUMENT REVIEW SET

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. NLIGHT

LIGHTING CONTROL ID

1. # = NUMBER OF ZONES
2. D = DIMMING, S = SWITCHING
3. P = DAYLIGHT PHOTOCELL
4. L = PLUG LOAD CONTROLLER
5. # = INSTANCE

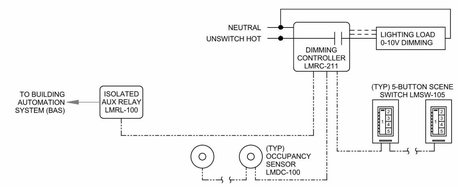
GENERAL NOTES

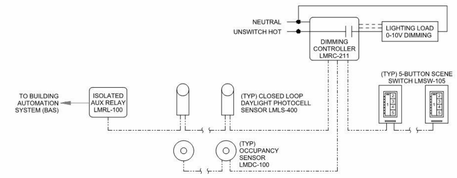
1. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER.
2. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION.
3. PROVIDE CUSTOMIZED ENGRAVED PERMANENT BUTTON LABELS ON EACH SWITCH, 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.
5. ALL CABLING ABOVE CEILING MUST BE PLENUM RATED.

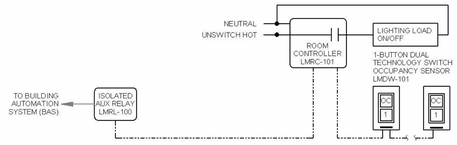
GENERAL NOTES

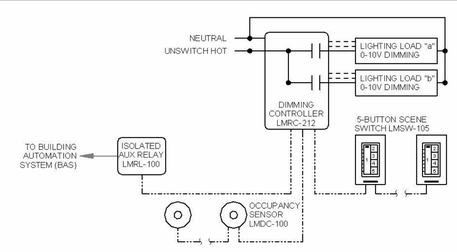
6. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES.
7. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS.
8. WIRING MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED WIRING THAT WILL BOTH MEET THE MANUFACTURERS REQUIREMENTS AND MATCH WITH THE SHOWN SYSTEM.
9. 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.

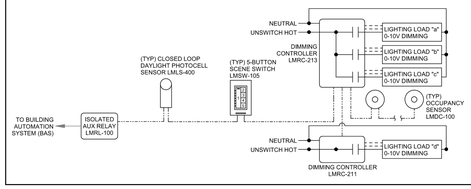
ID / DETAIL	LIGHTS ON CONTROL	LIGHTS OFF CONTROL	LIGHTING CONTROL TYPE	DAYLIGHT SENSOR SETTING (FC)	TIME DELAY TO OFF (MIN.)	BAS AUX RELAY SIGNAL	PLUG LOAD CONTROLLER	NETWORKED CONTROLS	BUTTON_1	BUTTON_2	BUTTON_3	BUTTON_4	BUTTON_5	BUTTON_6	BUTTON_7	BUTTON_8	BUTTON_9	NOTES
1D1	MANUAL & OCCUPANCY	MANUAL 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"	FUNCTION: PRESS-PRESET SCENE #01 SET TO 50% LABEL ID: "PRE #1"	-	-	-	-	-	-	-	
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"	FUNCTION: PRESS-PRESET SCENE #01 SET TO 75% LABEL ID: "PRE #1"	FUNCTION: PRESS-PRESET SCENE #02 SET TO 50%, LABEL ID: "PRE #2"	FUNCTION: PRESS-PRESET SCENE #03 SET TO 25%, LABEL ID: "PRE #3"	SPARE	-	-	-	-	
1S1	MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	ON/OFF	-	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNTION: PRESS-ON PRESS-OFF LABEL ID:"ON/OFF"	-	-	-	-	-	-	-	-	
2D1	MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	-	15	RELAY CLOSED ON OCCUPANCY	-	-	TOGGLE PRESS TOP-ON, PRESS BOTTOM-OFF, HOLD TOP-RAISE, HOLD 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"	-	-	-	-	
4DP1	MANUAL & OCCUPANCY	MANUAL OR OCCUPANCY	DIMMING 0-10V	40	15	RELAY CLOSED ON OCCUPANCY	-	-	FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE PRESS BOTTOM-OFF, HOLD BOTTOM-LOW ER 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"	-	-	-	-	











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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
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project#: 20.0770

date: 05.16.2022

revisions :

title:

LIGHTING CONTROL SCHEDULES

sheet:

EL602

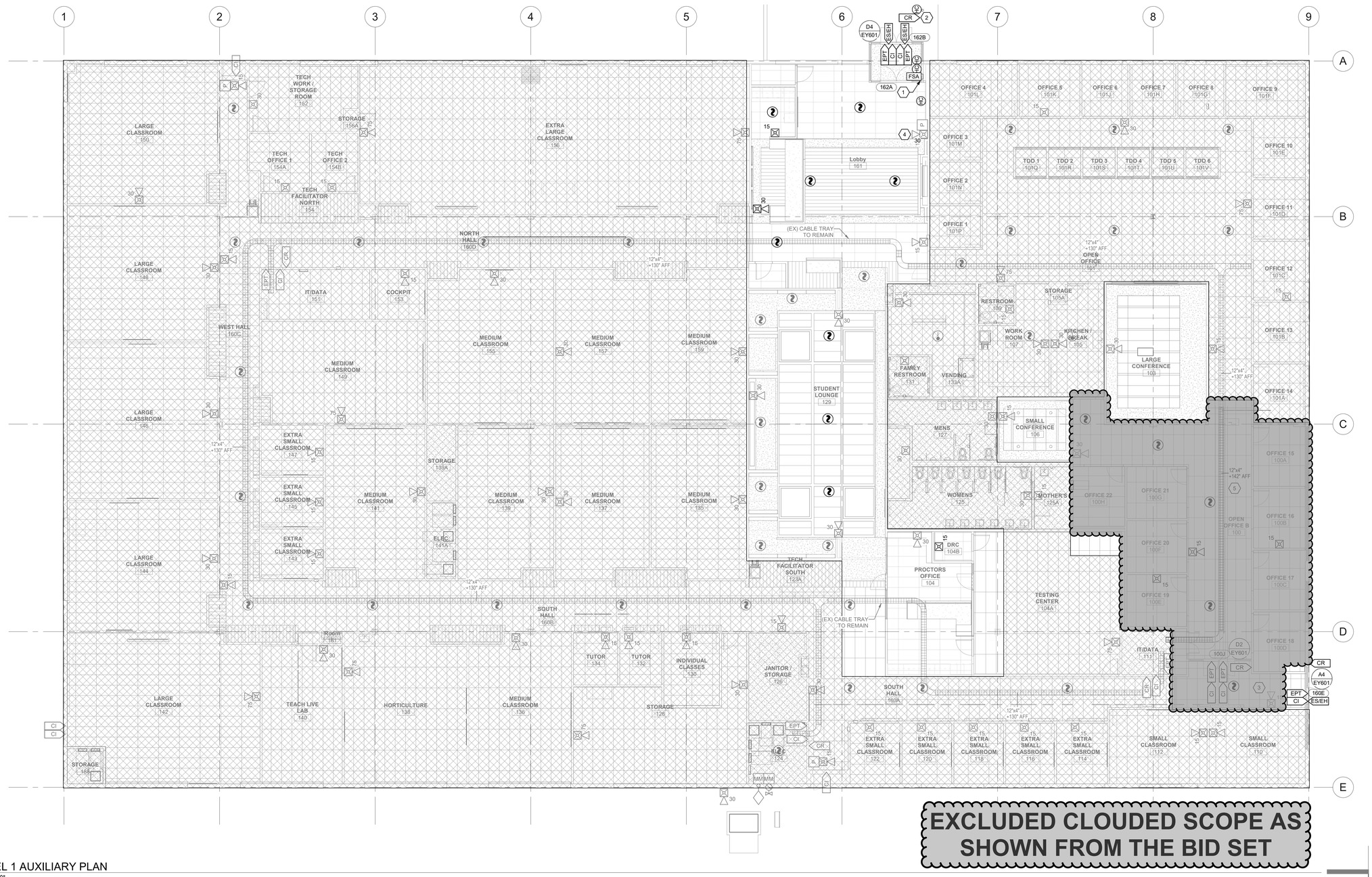
CONSTRUCTION DOCUMENT REVIEW SET

GENERAL SHEET NOTES

1. REFER TO EY601 FOR AUXILIARY RISERS.
2. FIRE ALARM NOTIFICATION DEVICES SHALL BE ADJUSTED AS REQUIRED TO PROVIDE PROPER COVERAGE AND SOUND LEVELS.
3. ALL FIRE ALARM DEVICES SHALL BE MOUNTED SUCH THAT THEY ARE VISIBLE FROM THE GROUND AND EASILY ACCESSIBLE FOR MAINTENANCE.
4. TYPICAL: CORRIDOR SMOKE DETECTOR SPACING SHALL NOT EXCEED 30FT ON CENTER.

SHEET KEYNOTES

1. NEW LOCATION FOR FIRE ANNUNCIATOR PANEL.
2. CARD READER AND ADA PUSH BUTTON ATTACHED TO 4" SQUARE BOLLARD POST.
3. CHANGE CANDELA SETTING FOR EXISTING FIRE ALARM DEVICE FROM 75 CD TO 15 CD.
4. CHANGE CANDELA SETTING FOR EXISTING FIRE ALARM DEVICE FROM 15 CD TO 30 CD.
5. EXISTING OVERHEAD TELECOM RACEWAY'S TO REMAIN. PROVIDE NEW CABLE TRAY RUN FROM IT/DATA 111 TO EXISTING CABLE TRAY.



A1 LEVEL 1 AUXILIARY PLAN
1/8" = 1'-0"

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title:

LEVEL 1 AUXILIARY PLAN

sheet:

EY101

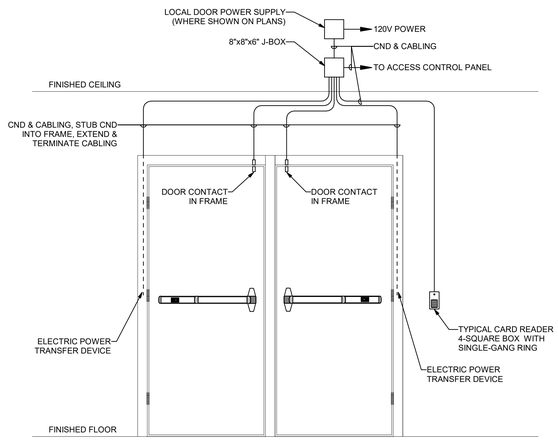
CONSTRUCTION DOCUMENT REVIEW SET

WIRING SCHEDULE

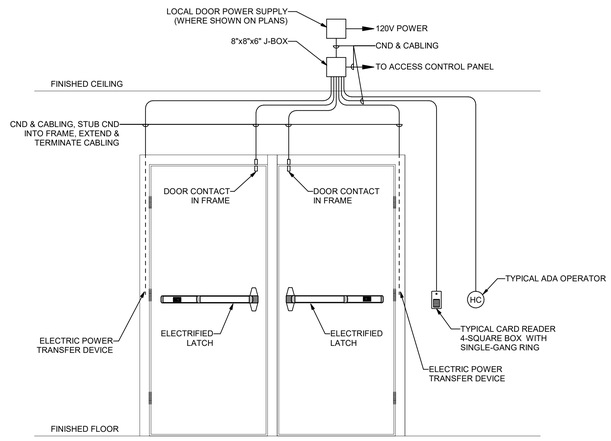
FUNCTION	< 500'	< 1000'	1000'-3000'	> 3000'
ADDRESSABLE LOOP	#18 TSP	#18 TSP	#16 TSP	#14 TSP
POWER LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN
SPARE LOOP	#14 THWN	#14 THWN	#12 THWN	#10 THWN
STROBE HORNS	#14 THWN	#14 THWN	#12 THWN	#10 THWN
MAGNETIC DOOR HOLDER	#12 THWN	#10 THWN		
SPEAKERS	#16 TSP	#16 TSP	#14 TSP	#14 TSP

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



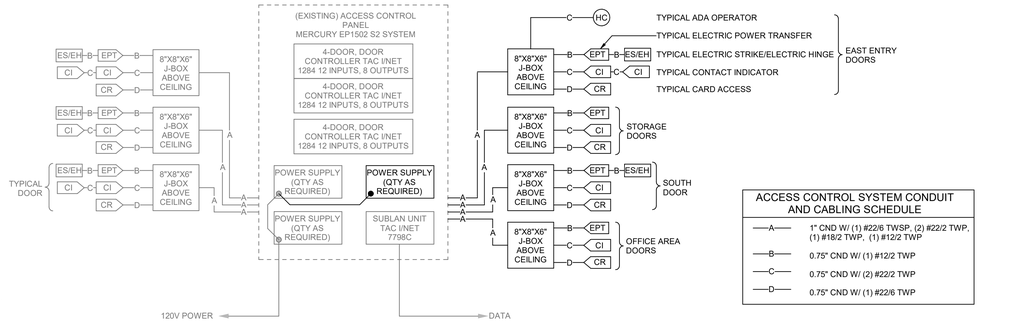
D2 DOUBLE DOOR ELECTRIFIED LATCH EXIT DEVICE DETAIL
NTS



D4 DOUBLE DOOR ELEC. LATCH EXIT DEVICE DETAIL (ADA)
NTS

GENERAL DIVISION OF WORK

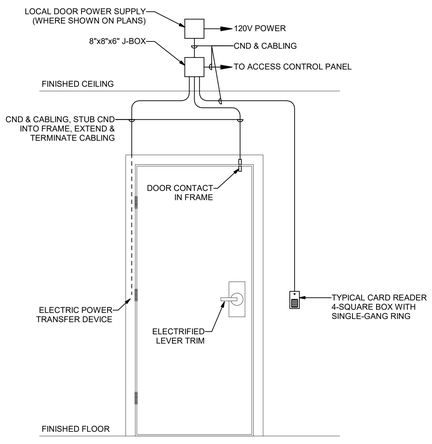
CARD READERS - BY DIVISION 26/28
CONTACT INDICATORS - BY DIVISION 8
RACEWAYS - BY DIVISION 26/28
CABLING - BY DIVISION 26/28
DOOR POWER SUPPLIES @ DOOR - BY DIVISION 8
DOOR POWER SUPPLIES @ CONTROL PANEL - BY DIVISION 26/28
ELECTRIFIED DOOR HARDWARE - BY DIVISION 8



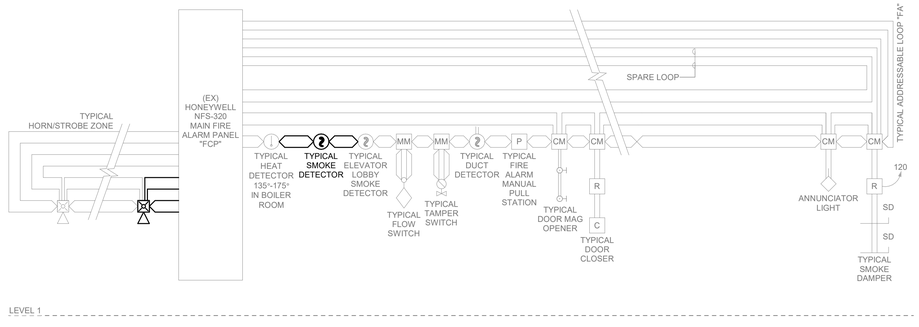
ACCESS CONTROL SYSTEM CONDUIT AND CABLING SCHEDULE	
A	1" CND W/ (1) #22/6 TWSP, (2) #22/2 TWP, (1) #18/2 TWP, (1) #12/2 TWP
B	0.75" CND W/ (1) #12/2 TWP
C	0.75" CND W/ (2) #22/2 TWP
D	0.75" CND W/ (1) #22/6 TWP

* SEE PLANS FOR EXACT CONFIGURATIONS AT EACH DOOR. NOT ALL DEVICES ARE PRESENT AT EACH DOOR.

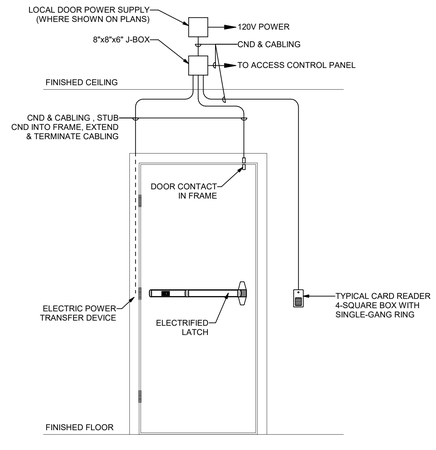
B1 ACCESS CONTROL RISER DIAGRAM
NTS



B4 SINGLE DOOR ELECTRIFIED LEVER TRIM DEVICE DETAIL
NTS



A1 FIRE ALARM RISER
NTS



A4 SINGLE DOOR ELECTRIFIED LATCH EXIT DEVICE DETAIL
NTS

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.

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05.16.2020

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project:

USU Salt Lake East Entrance Remodel

920 W Levoy Dr,
Taylorsville, UT 84123

project#: 20.0770
date: 05.16.2022
revisions :

title:

FIRE ALARM & AUX RISERS

sheet:

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CONSTRUCTION DOCUMENT REVIEW SET