UNIVERSITY OF NORTH TEXAS

CHILTON HALL LEVEL 1 RENOVATION

ISSUE FOR CONSTRUCTION

01/16/2025

TREANOR

01/16/2025

OWNER	ARCHITECT	STRUCTURAL ENGINEER	MECHANICAL ENGINEER	ELECTRICAL ENGINEER
University of North Texas Systems 2204 West Prairie St. Denton, TX 76201 940.369.7699	Treanor 2554 Elm St., Suite 200 Dallas, Texas 75226 877.842.4858	IMEG 100 Glass St. Dallas, Texas 75207 214.752.9098	Baird, Hampton and Brown 3801 William D Tate Ave, Suite 500 Grapevine, Texas 76051 817.251.8550	Yaggi Engineering, Inc. 5840 Interstate 20 W Arlington, Texas 76017 817.483.2373

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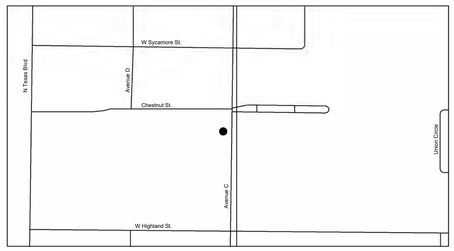
PROJECT LOCATION

Project Address: 410 Avenue C
Denton, Texas 76201

VICINITY MAP



CHILTON HALL LEVEL 1
RENOVATION

G001

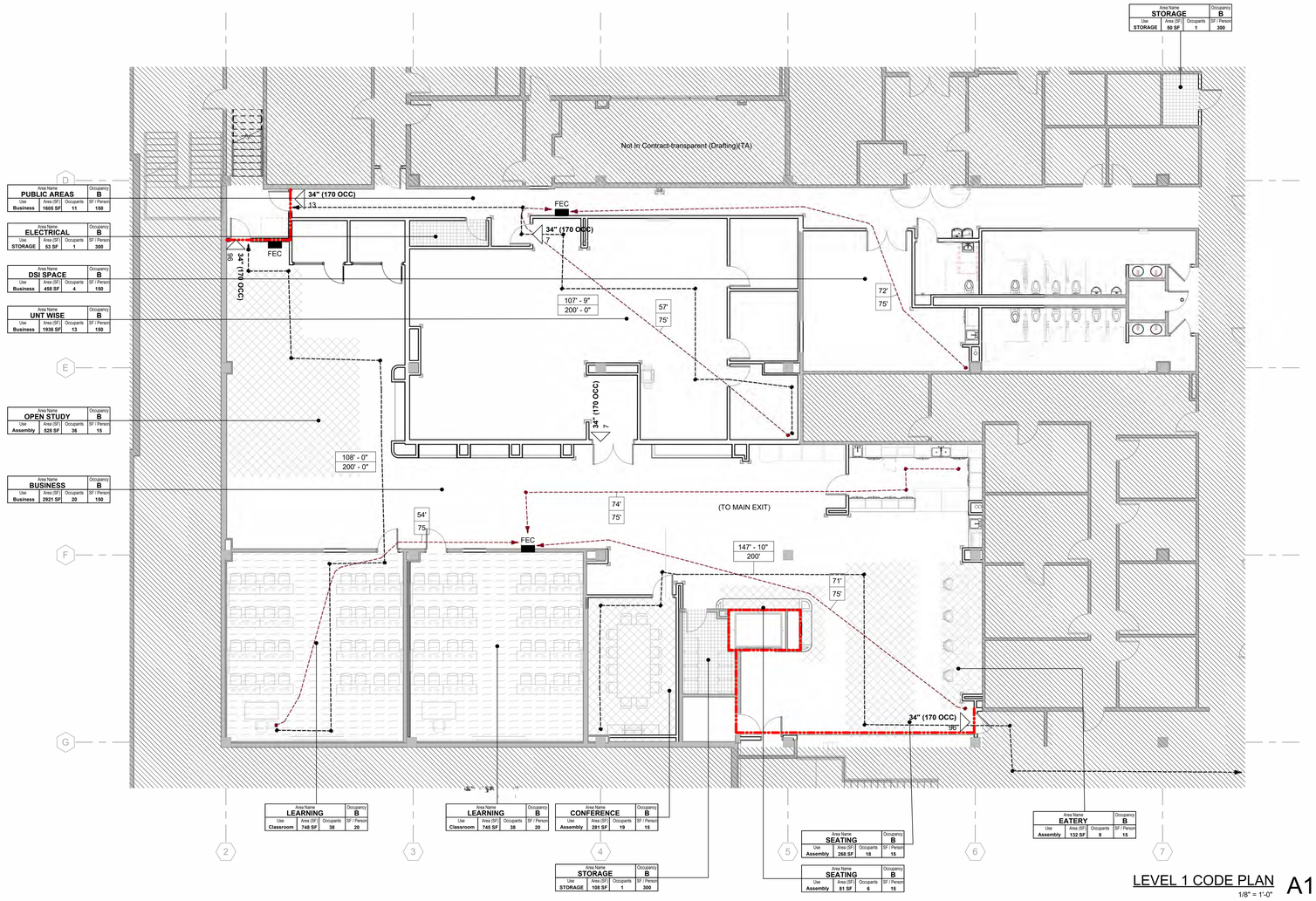
PLUMBING FIXTURE COUNT

			MIN. # OF WATER CLOSETS RATIO		REQ'D WATER CLOSETS		MIN. # OF LAVATORIES RATIO		REQ'D LAVATORIES		MIN. # OF DRINKING FOUNTAINS RATIO	REQ'D DRINKING FOUNTAINS	SERVICE SINKS
OCC. TYPE	# OF OCC.	OCC/ GENDER	M	W	M	W	M	W	M	W			
BUSINESS	48	24	(1/25) FOR THE 1ST 50 (1/50) FOR REMAINING		0.96	0.96	(1/40) FOR THE 1ST 80 (1/80) FOR REMAINING		0.6	0.6	(1/100)	0.24	(1) SERVICE SINK
A-3	88	44	(1/125)	(1/65)	0.352	0.677	(1/200)		0.22	0.22	(1/500)	0.088	
STORAGE	3	1.5	(1/100)		0.015	0.015	(1/100)		0.015	0.015	(1/1000)	0.0015	
CLASSROOM	76	38	(1/50)		0.76	0.76	(1/50)		0.76	0.76	(1/100)	0.38	
TOTAL:	215	107.5			2.087	2.412			1.595	1.595		0.7095	
			REQ'D		2	3			2	2		1	1
			PROVIDED		**6**	**7**			**2**	**3**		2	1
			DEFICIENT		-	-			-	-		-	-

IBC 2021 FUNCTION OF SPACE

OCCUPANCY COUNT

- ASSEMBLY - FIXED 3 OCC.
- ASSEMBLY - UNCONCENTRATED 100 OCC.
- BUSINESS 40 OCC.
- EDUCATIONAL - CLASSROOMS 75 OCC.
- STORAGE 3 OCC. **
- STORAGE - MECHANICAL



LEVEL 1 CODE PLAN

1/8" = 1'-0"

A1

0 4' 8' 16'

CODE REVIEW

GOVERNING CODES

- 2021 IBC INTERNATIONAL BUILDING CODE
- 2021 IMC INTERNATIONAL MECHANICAL CODE
- 2021 IPC INTERNATIONAL PLUMBING CODE
- 2021 IFGC INTERNATIONAL FUEL GAS CODE
- 2021 IFC INTERNATIONAL FIRE CODE
- 2018 IECC INTERNATIONAL ENERGY CONSERVATION CODE
- 2020 NFPA 1 FIRE CODE
- 2020 NFPA 101 LIFE SAFETY CODE
- 2023 NFPA 70 NATIONAL ELECTRICAL CODE
- 2013 NFPA 72 NATIONAL FIRE ALARM SIGNALING CODE
- 2012 TAS TEXAS ACCESSIBILITY STANDARDS

OCCUPANCY

B - BUSINESS

CONSTRUCTION TYPE

TYPE I-B*
*EXISTING BUILDING CLASSIFIED AS II-F.R. UNDER THE 1985 U.B.C.

GENERAL BUILDING HEIGHTS AND AREAS

Allowable: Type IB NS:
Business: Height: 160' - 0" (11stories), Unlimited SF

Actual:
Business: Height: 48' - 6" (3 stories), 118,000 SF (9,542 SF in scope)

FIRE RESISTANCE RATINGS - BUILDING ELEMENTS

Structural frame	2 hours
Exterior bearing walls	2 hours
Interior bearing walls	2 hours
Exterior non-bearing walls	0 hours
Non-bearing walls	0 hours
Shafts	2 hours
Floors/ceiling	2 hours
Roofs/ceiling	1 hours

FIRE PROTECTION SYSTEM

Fire Extinguishers
Provided throughout per NFPA 10. Max travel distance to be the nearest fire extinguisher location = 75' - 0"

MEANS OF EGRESS

Egress Width Factor without Sprinkler System .2
Egress Width Factor without Sprinkler System for Stairs .3

Exit Requirements per Floor:

1-500	2
501-1,000	3
>1,000	4

*All other levels are existing conditions with no changes
** Not in scope (Diagonal Hatch)

LIFE SAFETY LEGEND

USE DESIGNATION / OCCUPANT LOAD TAG

Use Designation: ASSEMBLY (W/O FIXED) | Occupancy: B | Area (SF): 5,000 | Occupants: 334 | SF / Person: 15
- USE DESIGNATION
- OCCUPANT LOAD FACTOR
- CALCULATED OCCUPANT LOAD
- AREA PER USE (TOTAL)
- BUILDING OCCUPANCY CLASSIFICATION

LIFE SAFETY FIRE WALL GRAPHICS

- 0 HR FRR "SMOKE PARTITION"
- 1 HR FRR "FIRE BARRIER"
- 1 HR FRR "SMOKE BARRIER"
- 2 HR FRR "FIRE BARRIER"
- 2 HR FRR "FIRE WALL"
- 2 HR FRR "SMOKE BARRIER"
- 3 HR FRR "FIRE BARRIER"
- 3 HR FRR "FIRE WALL"

- EXIT ACCESS TRAVEL DISTANCE
- COMMON PATH OF TRAVEL DECISION POINT
- 42' - 6" (300' - 0") — TOTAL TRAVEL DISTANCE / ALLOWABLE DISTANCE
- 25' - 0" (75' - 0") — COMMON PATH DISTANCE / MAX. COMMON PATH

EGRESS COMPONENT CAPACITY

- ACTUAL EXIT WIDTH (CAPACITY) / ACTUAL OCCUPANT LOAD — EXTERIOR EXIT/ EXIT INFORMATION
- ACTUAL EXIT WIDTH (CAPACITY) / ACTUAL OCCUPANT LOAD — INTERIOR EXIT/ EXIT INFORMATION
- ACTUAL OCCUPANT LOAD AT EXIT
- EXIT WIDTH FACTOR
- REQUIRED EXIT WIDTH
- DIRECTION OF EXIT

- FEC — FIRE EXTINGUISHER & CABINET
- FEC — EXISTING FIRE EXTINGUISHER & CABINET
- FE — FIRE EXTINGUISHER & WALL MOUNTING BRACKET
- KNOX BOX - FIRE DEPARTMENT KEEPS KEYS

REGISTERED ARCHITECT JASON A. TREANOR 23693 STATE OF TEXAS
01/16/2025

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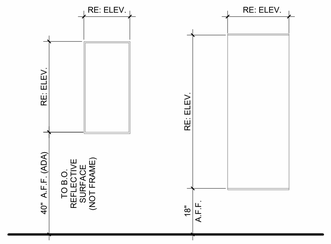
REVISIONS

NO	DESCRIPTION	DATE

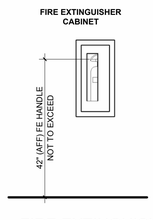
G002

CODE PLAN

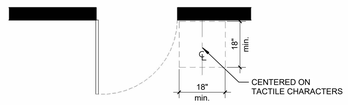
Treanor NO. HE0569.2401.00



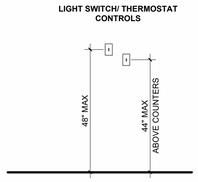
MIRRORS
1/2" = 1'-0"



FIRE EXTINGUISHER CABINET
1/2" = 1'-0"



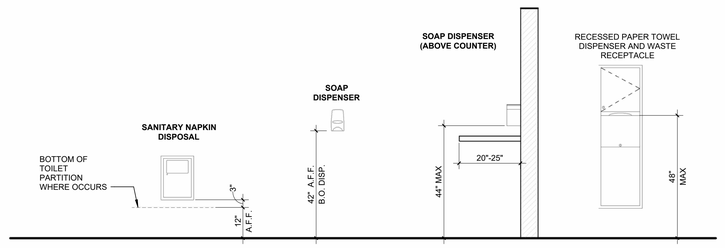
DOOR ACCESSORIES
1/2" = 1'-0"



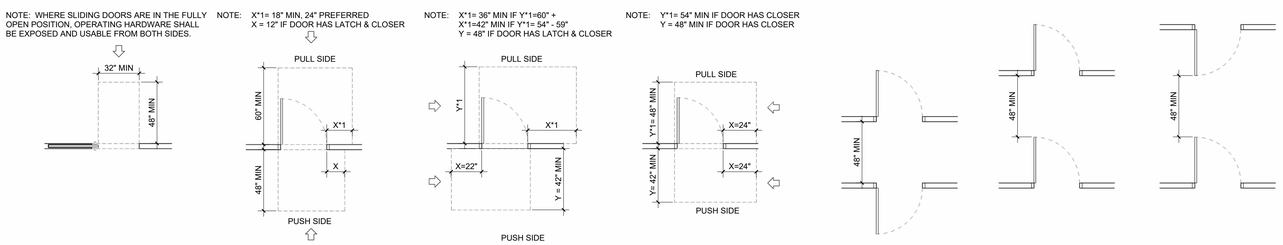
LIGHT SWITCH/ THERMOSTAT CONTROLS
1/2" = 1'-0"

GENERAL NOTES

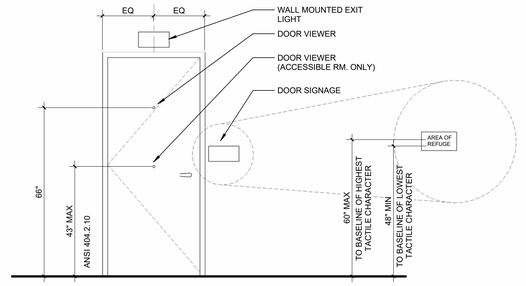
A. DIMENSIONS ON THIS SHEET ARE TO FINISH FACE OF WALLS, FLOORS, AND CEILINGS.



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



DOOR CLEARANCES
1/4" = 1'-0"



DOOR ACCESSORIES
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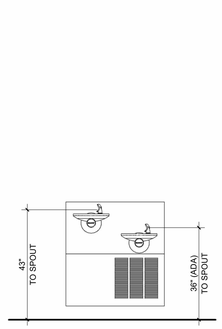
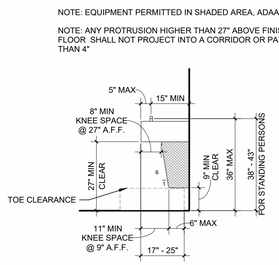
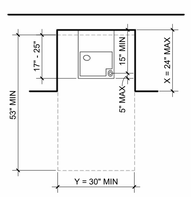
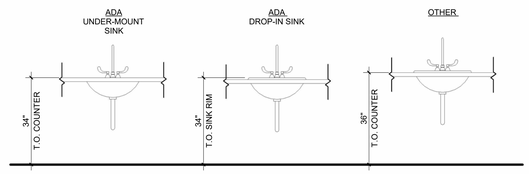




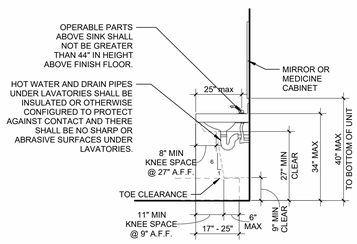


NOTE: IF X > 24" THEN Y SHALL BE 36" MIN.

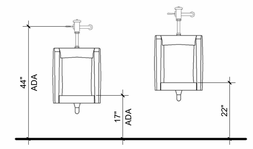
DRINKING FOUNTAIN
1/2" = 1'-0"



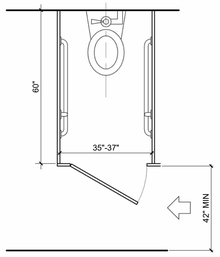
LAVATORY
1/2" = 1'-0"



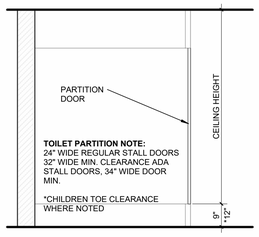
LAVATORY-ELEVATION
1/2" = 1'-0"



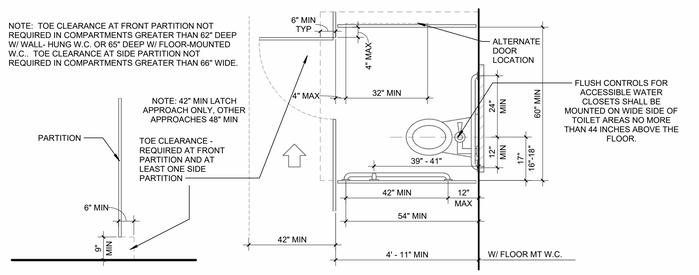
URINAL
1/2" = 1'-0"



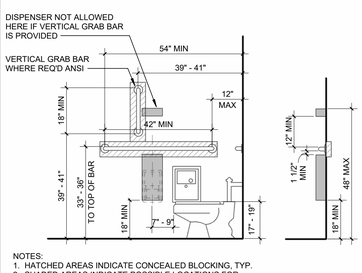
W.C.-PLAN - AMBULATORY
1/2" = 1'-0"



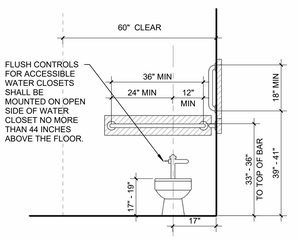
TOILET PARTITION
1/2" = 1'-0"



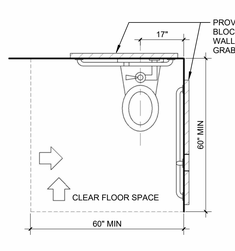
ACCESSIBLE STALL-PLAN
1/2" = 1'-0"



NOTES:
1. HATCHED AREAS INDICATE CONCEALED BLOCKING, TYP.
2. SHADED AREAS INDICATE POSSIBLE LOCATIONS FOR DISPENSER OUTLETS, TYP.



ACCESSIBLE W.C.-ELEVATIONS
1/2" = 1'-0"



ACCESSIBLE W.C.-PLAN
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ACCESSIBILITY REQUIREMENTS

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ABBREVIATIONS

AA	AUTOMATICALLY ACTUATED
ABS	ABSOLUTE
ABV	ABOVE
AC	ABOVE COUNTER
ACMU	ARCHITECTURAL CEMENTITIOUS MASONRY UNIT
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADA	AMERICANS WITH DISABILITIES ACT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AG	ACRYLIC GLAZING
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR
AP	ACCESS PANEL
APX	APPROXIMATE
ARCH	ARCHITECT(URAL)
AUTO	AUTOMATIC
BD	BOARD
BLDG	BUILDING
BLK	BLOCK
BM	BENCH MARK
BO	BOTTOM OF
BOD	BASIS OF DESIGN
BOT	BOTTOM
BR	BRICK
BRG	BEARING
BS	BOTH SIDES
BSMT	BASEMENT
BUR	BUILT UP ROOFING
CA	CARD ACTUATED
CAB	CABINET
CB	CHALKBOARD
CCTV	CLOSED CIRCUIT TELEVISION
CF	CORK FLOORING
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CG	CORNER GUARD
CH	CONDUCTOR HEAD
CI	CAST IRON
CIP	CAST IN PLACE
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASORY UNIT
CO	CLEAN OUT
COL	COLUMN
CONC	CONCRETE
COND	CONDITION
CONST	CONSTRUCTION
CONT	CONTINUOUS, CONTINUE
CORR	CORRIDOR
CPT	CARPET
CR	CARD READER
CS	CUSTOM STEEL
CT	CERAMIC TILE
CTR	COUNTER
CTSK	COUNTERSUNK
CW	COLD WATER
D	DEEP/DEPTH/DRAIN
DBL	DOUBLE
DF	DRINKING FOUNTAIN
DFS	DOOR AND FRAME SCHEDULE
DIA	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DN	DOWN
DPR	DISPENSER
DR	DOOR
DS	DOWNSPOUT
DTL	DETAIL
DWG	DRAWING
E	EAST
EA	EACH
EB	EXPANSION BOLT
ECUH	ELECTRIC CABINET UNIT HEATER
EF	EACH FACE
EIFS	EXTERIOR INSUL. FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATION/ELEVATOR
EMER	EMERGENCY
ENC	ENCLOSURE
EOS	EDGE OF SLAB
EP	ELECTRICAL PANEL
EPS	EXPANDED POLYSTYRENE
EQ	EQUAL
EQUIP	EQUIPMENT
EST	ESTIMATE
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FA	FRESH AIR
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FAS	FASTENER
FB	FACE BRICK
FBO	FURNISHED BY OTHERS
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONECTION
FE	FIRE EXTINGUISHER
FEB	FIRE EXTINGUISHER BRACKET
FEC	FIRE EXTINGUISHER CABINET\
FF	FINISH FLOOR
FFCO	FLUSH FLOOR CLEANOUT
FFE	FINISHED FLOOR ELEVATION
FFL	FINISHED FLOOR LINE
FH	FLAT HEAD
FHC	FIRE HOSE CABINET
FHMS	FLAT HEAD MACHINE SCREW
FHWS	FLAT HEAD WOOD SCREW
FIN	FINISH
FL	FLOW LINE
FLUOR	FLUORESCENT
FND	FOUNDATION
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUCCO
FP	FIREPROOF(ING)
FR	FIRE RATED
FRP	FIBERGLASS REINFORCED PLASTIC
FS	FLOOR SINK
FT	FEET
FTG	FOOTING
FUR	FURRING
FUT	FUTURE
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GD	GRADE/GRADING
GF	GROUND FACE
GFRC	GLASS FIBER REINFORCED CONCRETE
GR	GRADE, GRADING
GYP	GYPSUM
GYP BD	GYPSUM BOARD
H	HIGH/HEIGHT
HB	HOSE BIB
HM	HOLLOW METAL
HO	HOLD OPEN
HORZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HW	HOT WATER
HWD	HARD WOOD
ID	INSIDE DIAMETER
IN	INCHES
INCL	INCLUDE(D), (ING)
INSUL	INSULATION, INSULATING
INT	INTERIOR
INTM	INTERMEDIATE
JB	JUNCTION BOX
JF	JOINT FILLER
JST	JOIST
JT	JOINT
KB	KEYBOARD
KIT	KITCHEN
KO	KNOCK OUT
KS	KNEE-SPACE
L	LONG/LENGTH
LAM	LAMINATE
LAV	LAVATORY
LH	LEFT HAND
LIN	LINOLEUM
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMS	LIMESTONE
LT	LIGHT
LTL	LINTEL
LW	LIGHT WEIGHT
LWC	LIGHT WEIGHT CONCRETE
LWCMU	LIGHT WEIGHT CONCRETE MASONRY UNIT
M	METER(S)
MAS	MASONRY
MAT	MATERIAL(S)
MAX	MAXIMUM
MB	MARKERBOARD
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MFR	MANUFACTURE/MANUFACTURER
MH	MANHOLE
MHO	MAGNETIC HOLD OPEN
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MLD	MOLDING, MOULDING
MO	MASONRY OPENING
MOD	MODULAR
MS	METAL STUDS
MT	MOUNT(ED), (ING)
MTFR	METAL FURRING
MTL	METAL
MTLR	METAL ROOF
MULL	MULLION
N	NORTH
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NR	NOISE REDUCTION
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER (or) OVERFLOW DRAIN
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
OFVI	OWNER FURNISHED VENDOR INSTALLED
OH	OVERHEAD
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
PAR	PARAPET
PAV	PAVING
PB	PUSH BUTTON
PC	PORTLAND CEMENT
PCC	PRECAST CONCRETE
PED	PEDESTRIAN
PERIM	PERIMETER
PERP	PERPENDICULAR
PFB	PREFABRICATE(D)
PIC	POLYISOCYANURATE
PK	PARKING
PL	PLATE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLWD	PLYWOOD
PNL	PANEL
PR	PAIR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT, PAINTED
PTR	PAPER TOWEL RECEPTOR
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
QTY	QUANTITY
R	RADIUS OR RISER
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE
RBT	RABBET
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RE	REFERENCE
RECEP	RECEPTACLE
REF	REFERENCE
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCED(ING)
REM	REMOVE
REQ	REQUIRE(D)
RES	RESILIENT
RET	RETURN
REV	REVISION
RFG	ROOFING
RFL	REFLECT(ED), (IVE), (OR)
RFS	ROOM FINISH SCHEDULE
RH	RIGHT HAND
RM	ROOM
RO	ROUGH OPENING
RTU	ROOF TOP UNIT
RVRS	REVERSE
S	SOUTH
SA	SUPPLY AIR
SAM	SELF-ADHERED MEMBRANE
SAN	SANITARY
SCHED	SCHEDULE
SD	STORM DRAIN
SECT	SECTION
SF	SQUARE FEET
SHT	SHEET
SHTH	SHEATHING
SHWR	SHOWER
SIM	SIMILAR
SLNT	SEALANT
SND	SANITARY NAPKIN DISPENSER
SNR	SANITARY NAPKIN RECEPTACLE
SPC	SPACE
SPCR	SPACER
SPEC	SPECIFICATION(S)
SPKR	SPEAKER
SQ	SQUARE
SS	SOLID SURFACE
SSK	SERVICE SINK
SST	STAINLESS STEEL
ST	SPECIAL TREATMENT
STA	STATION
STD	STANDARD
STL	STEEL
STN	STONE
STOR	STORAGE
STP	STANDPIPE
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SY	SQUARE YARD
SYM	SYMMETRICAL
SYS	SYSTEM
T	TREAD
T&G	TONGUE AND GROOVE
TBD	TO BE DETERMINED
TD	TRENCH DRAIN
TEL	TELEPHONE
THK	THICK(NESS)
THRU	THROUGH
TLT	TOILET
TO	TOP OF
TOC	TOP OF CONCRETE
TOS	TOP OF STEEL, TOP OF SLAB
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TPTN	TOILET PARTITION
TS	TUBE STEEL
TYP	TYPICAL
TZ	TERRAZZO
UC	UNDER CONTRACT
UNF	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
US	URINAL SCREEN
VB	VAPOR BARRIER
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VEST	VESTIBULE
VFCI	VENDOR FURNISHED CONTRACTOR INSTALLED
VFOI	VENDOR FURNISHED OWNER INSTALLED
VFVI	VENDOR FURNISHED VENDOR INSTALLED
VIF	VERIFY IN FIELD
W	WIDE/WIDTH
W/	WITH
W/O	WITHOUT
WC	WATER CLOSET
WD	WOOD
WDB	WOOD BASE
WDO	WINDOW
WG	WIRE GLASS
WO	WHERE OCCURS
WPG	WATERPROOFING
WS	WRITABLE SURFACE
WS	WATERSTOP
WSCT	WAINSCOT
WT	WEIGHT
WTW	WALL TO WALL
WWF	WELDED WIRE FABRIC

MATERIALS

- FACE BRICK (PLAN/SECTION)
- CAST STONE (ELEVATION)
- RIGID INSULATION
- SPRAYED INSULATION
- CONCRETE MASONRY
- ASPHALT SHINGLES
- CONCRETE
- UNDISTURBED EARTH
- DISTURBED EARTH
- METAL STUD/STEEL
- GYPSUM BOARD
- DRAINAGE FILL
- PLYWOOD
- BLANKET OR LOOSE FILL INSULATION
- WOOD FINISH
- DEMOLITION
- EXISTING
- NEW PARTITION

SYMBOLS

DETAIL SECTION — DETAIL NUMBER 1 / A101 — SHEET NUMBER

ELEVATION LEVEL — NAME / ELEVATION

BUILDING SECTION — DETAIL NUMBER A101 / A101 — SHEET NUMBER

CEILING TAG W/ HEIGHT/MATERIAL — 1'-0" APC1 — HEIGHT ABOVE FINISH FLOOR, UNO; CEILING TYPE; (E) = EXISTING TO REMAIN

WALL SECTION — DETAIL NUMBER A101 — SHEET NUMBER

DOOR TAG — 201A — UNIQUE ID; ROOM NUMBER

BUILDING ELEVATION / INTERIOR ELEVATION — 1 DETAIL NUMBER A101 1 — 1 SHEET NUMBER

WINDOW TAGS — AA 3'-0" — AFF (WIN. SILL)

PLAN DETAIL — 1 A101 — DETAIL NUMBER; SHEET NUMBER

GLAZING TAGS — ?

GRID LINE - NEW — 0

GRID LINE - EXISTING — 0

PLAN NOTE & DEMO NOTE — P01

NORTH ARROW

REVISION TAG — 99 — REVISION NUMBER

PARTITION TYPE INDICATOR — PARTITION TYPE; DIMENSIONAL MODIFIER; TYPE MODIFIER; RATING - WHERE APPLIES; A321; PARTITION

ROOM TAG — ROOM NAME 101 — ROOM NAME; ROOM NUMBER

ROOM TAG W/ AREA — ROOM NAME 101 150 SF — ROOM NAME; ROOM NUMBER; ROOM SF

CASEWORK TAG — B 12" 12" — AWI # or PRODUCT #; WIDTH; DEPTH

SPECIALTY EQUIPMENT TAG — 1i

GRAPHIC SCALE — 0 4' 8' 16'

GENERAL NOTES

1. GENERAL NOTES APPLY TO WORK OF THIS PROJECT, INCLUDING CHANGES TO THE WORK APPROVED BY THE OWNER.
2. VISIT SITE AND BECOME FAMILIAR WITH LOCAL CONDITIONS. CORRELATE PERSONAL OBSERVATIONS WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.
3. CONTRACT DOCUMENTS INDICATE THE DESIGN INTENT. PROVIDE MINOR MODIFICATIONS NECESSARY TO SUIT JOB CONDITIONS AS PART OF THE WORK, WITH ARCHITECT`S DIRECTION.
4. CONTRACT DOCUMENTS ARE COMPLEMENTARY. BEFORE STARTING EACH PORTION OF THE WORK, STUDY AND COMPARE THE CONTRACT DOCUMENTS RELATIVE TO THAT PORTION OF THE WORK, TAKE FIELD MEASUREMENTS OF EXISTING CONDITIONS RELATED TO THAT PORTION OF THE WORK, AND OBSERVE CONDITIONS AT THE SITE AFFECTING IT. TO FACILITATE COORDINATION AND CONSTRUCTION, REPORT ERRORS, OMISSIONS AND INCONSISTENCIES IMMEDIATELY TO THE ARCHITECT.
5. FEES, TAXES, PERMITS, APPLICATIONS, CERTIFICATES OF INSPECTION, AND THE FILING OF WORK WITH GOVERNMENTAL AGENCIES, ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR, U.N.O.
6. COMPLY WITH APPLICABLE CODES, ORDINANCES, REGULATIONS, AND AUTHORITIES HAVING JURISDICTION, AS A MINIMUM STANDARD.
7. COOPERATE WITH AUTHORITIES HAVING JURISDICTION AND SPECIAL INSPECTORS. PROVIDE TIMELY NOTIFICATION IN ADVANCE OF INSPECTIONS, AND ASSISTANCE AND FACILITIES TO ACCOMMODATE INSPECTIONS.
8. DO NOT PERFORM CHANGES TO THE WORK AFFECTING THE CONTRACT SUM OR CONTRACT TIME WITHOUT WRITTEN AUTHORIZATION FROM THE ARCHITECT.
9. MINIMIZE INTERFERENCE WITH USE OF PUBLIC WAYS AND ADJACENT FACILITIES. DO NOT CLOSE, BLOCK OR OTHERWISE OBSTRUCT USE OF PUBLIC WAYS OR FACILITIES WITHOUT CONSENT OF OWNER AND/OR AUTHORITIES HAVING JURISDICTION.
10. PROTECT EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE.
11. DO NOT INTERRUPT EXISTING UTILITIES UNLESS AUTHORIZED BY OWNER AND/OR AUTHORITIES HAVING JURISDICTION. WHEN REQUIRED, PROVIDE ALTERNATE TEMPORARY SERVICES ACCEPTABLE TO GOVERNING AUTHORITIES.
12. PROVIDE WORK TO MEET OR EXCEED THE LEVEL OR STANDARD OF QUALITY INDICATED ON THE CONSTRUCTION DOCUMENTS.
13. INSTALL MANUFACTURED ITEMS, MATERIALS AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURER`S WRITTEN RECOMMENDATIONS, U.N.O.
14. WHERE A MANUFACTURER IS SPECIFIED, THE NAME OR PRODUCT LISTED IS A BASIS OF DESIGN. WHERE THE TERM "OR APPROVED EQUAL" OR "OR EQUIVALENT" IS USED, THE ARCHITECT SHALL DETERMINE EQUIVALENCE AND ACCEPTABILITY BASED UPON THE INFORMATION SUBMITTED, PRIOR TO USE.
15. WHERE PRODUCTS ARE INDICATED, NOTED, NAMED, DESCRIBED, OR REFERENCED IN THE PROJECT DOCUMENTS BUT NOT FULLY DETAILED OR FULLY SPECIFIED, PROVIDE SUCH PRODUCT, INSTALLED IN ACCORDANCE WITH CURRENT (1) REFERENCED BUILDING CODES, ORDINANCES, AND REGULATIONS, (2) PRODUCT MANUFACTURER`S RECOMMENDATIONS AND SPECIFICATIONS, (3) GENERALLY ACCEPTED GOOD CONSTRUCTION PRACTICE STANDARDS. WITH PRECEDENCE IN THAT ORDER. PROVIDE SUCH PRODUCTS COMPLETE WITH HARDWARE, ACCESSORIES, ATTACHMENTS, CONTROLS AND OTHER DEVICES REQUIRED FOR THE PROPER INSTALLATION TO PROVIDE A COMPLETE OPERATIONAL SYSTEM WITH THE QUALITY OF WORKMANSHIP NOT LESS THAN INDUSTRY-ACCEPTED STANDARDS OF THAT TRADE.
16. INSTALL PLUMBING, MECHANICAL AND ELECTRICAL EQUIPMENT TO OPERATE QUIETLY AND WITH MINIMAL VIBRATION.
17. KEEP THE WORK FREE OF ACCUMULATIONS OF WASTE MATERIALS AND DEBRIS. USE METHODS AGREEABLE TO THE OWNER FOR WASTE REMOVAL.
18. ARCHITECTURAL DIMENSIONS ARE TO FACE OF CONCRETE, FACE OF MASONRY, FACE OF GYP. U.N.O. MASONRY DIMENSIONS ARE NOMINAL, U.N.O. ALIGN FACE OF MASONRY WITH FACE OF CONCRETE WALLS, COLUMNS OR PILASTERS WHERE APPLICABLE. "CLEAR" DENOTES MINIMUM FINISH-TO-FINISH DIMENSION.
19. FIELD-VERIFY GRADES, LINES, LEVELS AND DIMENSIONS SHOWN ON THE DRAWINGS.
20. DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS SHALL GOVERN. DETAILS SHALL GOVERN OVER PLANS AND ELEVATIONS; LARGE SCALE DETAILS SHALL GOVERN OVER SMALL SCALE DETAILS.
21. PROTECT EXISTING PROPERTY AND WORK FROM DAMAGE. REPAIR OR REPLACE ITEMS DAMAGED BY CONSTRUCTION ACTIVITY TO MATCH CONDITIONS PRIOR TO START OF WORK.
22. PROTECT THE WORK FROM WEATHER-RELATED DAMAGE.
23. PROVIDE LINTELS AT OPENINGS, RECESSES AND NICHES IN MASONRY WALLS AND PARTITIONS. REFERENCE LINTEL SCHEDULE FOR REQUIREMENTS.
24. PROVIDE 3-1/2" HIGH, CAST-IN-PLACE RECTANGULAR CONCRETE PADS WHERE ELECTRICAL CONDUITS PENETRATE FLOORS AND ARE EXPOSED TO VIEW. EXTEND PADS LATERALLY 4" MIN. FROM CONDUITS.
25. PROVIDE (FIRE-RETARDANT TREATED, WHERE REQUIRED) WOOD BLOCKING FOR SUPPORT OF CASEWORK, GRAB BARS, TOILET, BATH AND CLOSET ACCESSORIES, VISUAL DISPLAY SURFACES AND EQUIPMENT, DOOR STOPS, FIXTURES AND SPECIALTY ITEMS. KERF BLOCKING TO FIT SNUGLY BETWEEN STUDS AND TO FIT TIGHTLY AGAINST BACK OF GYPSUM BOARD. BLOCK CONTINUOUSLY AT TOP AND BOTTOM OF BASE, WALL AND TALL CABINETS. REFERENCE *SHEETS A411/A751*.
26. INSTALL TOP OF FLOOR DRAINS 1/2" BELOW FINISH FLOOR ELEVATION, U.N.O. PROVIDE POSITIVE SLOPE TO DRAINS FROM ALL DIRECTIONS, SO THAT WATER DOES NOT POND ON FLOOR AWAY FROM DRAINS.
27. PROTECT EXISTING CONSTRUCTION, MATERIALS AND FINISHES WITH ENCLOSURES AND OTHER SUITABLE MEASURES. COMPLY WITH GOVERNING REGULATIONS REGARDING ENVIRONMENTAL PROTECTION. REPAIR ANY DAMAGE TO MATCH CONDITIONS PRIOR TO START OF WORK.
28. PROVIDE SHORING AS NECESSARY DURING DEMOLITION AND CONSTRUCTION TO ENSURE STABILITY OF BUILDING STRUCTURE AND ELEMENTS TO REMAIN.
29. REMOVE EXISTING ITEMS NOT SHOWN TO REMAIN, AND AS REQUIRED TO ACCOMMODATE NEW WORK. SALVAGE ITEMS WHERE INDICATED.
30. INFILL OR PATCH UNUSED OPENINGS IN FLOOR, WALL, CEILING AND ROOF ASSEMBLIES, AS REQUIRED TO MAINTAIN SMOKE, FIRE OR SOUND RATING, AND /OR STRUCTURAL CAPACITY. MATCH TEXTURE, COLOR AND FINISH OF ADJACENT SURFACE WHERE EXPOSED TO VIEW.

REGISTERED ARCHITECT — JASON A. MITCHELL — 23845 — STATE OF TEXAS

01/16/2025

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REVISIONS

NO	DESCRIPTION	DATE

A001

GEN NOTES/ABBREV

Treanor NO. HE0569.2401.00

WALL SCHEDULE

TYPE	Type	DIM.	GYP. BD.	FIRE RATING	SOUND BATT	UL NO	STC(SOUND)	COMMENTS
A3a	A3a - MTL STUD_SGL LAYER OF GYP BD, BS_TO ROOF OR BOTTOM OF DECK_ACOUSTIC	4 7/8"						
A6a	A6a - MTL STUD_SGL LAYER OF GYP BD, BS_TO ROOF OR BOTTOM OF DECK_ACOUSTIC	7 1/4"						
D3a	D3a - MTL STUD_DBL LAYER OF GYP BD, BS_TO ROOF OR BOTTOM OF DECK_ACOUSTIC	6 1/8"						
D3d2	D3d2 - MTL STUD_DBL LAYER OF GYP BD, BS_TO ROOF OR BOTTOM OF DECK_FIRE BARRIER_2 HR	6 1/8"		2HR (Fire)				
D3h2	D3h2 - MTL STUD_DBL LAYER OF GYP BD, BS_TO ROOF OR BOTTOM OF DECK_FIRE WALL_2 HR	6 1/8"		2HR (Fire Wall)				
F2a	F2a - MTL STUD_SGL LAYER OF GYP BD, SS_TO ROOF OR BOTTOM OF DECK	3 1/8"						
F3	F3 - MTL STUD_SGL LAYER OF GYP BD, SS_TO ROOF OR BOTTOM OF DECK	4 1/4"						
F3a	F3a - MTL STUD_SGL LAYER OF GYP BD, SS_TO ROOF OR BOTTOM OF DECK_ACOUSTIC	4 1/4"						
K3a1	K3a1 - MTL DBL STUD_SGL LAYER OF GYP BD,BS_TO ROOF OR BOTTOM OF DECK_Acoustic	8 3/8"		1HR (Fire)				

PARTITION TYPE MARK: A3z1

- PARTITION TYPE
- DIMENSIONAL MODIFIER
- TYPE MODIFIER
- RATING - WHERE APPLIES

PARTITION TYPE:

A. MTL STUD_SGL LAYER OF GYP BD, BS_TO ROOF OR BOTTOM OF DECK
E. MTL STUD_SGL LAYER OF GYP BD, SS,DBL LAYER OF GYP BD, SS_TO ROOF OR BOTTOM OF DECK
F. MTL STUD_SGL LAYER OF GYP BD,SS_4" ABV CLG
H. MTL STUD_DBL LAYER OF GYP BD, SSSGL LAYER OF GYP BD, SS_TO ROOF OR BOTTOM OF DECK
K. MTL DBL STUD_SGL LAYER OF GYP BD,BS_TO ROOF OR BOTTOM OF DECK

DIMENSIONAL MODIFIER

MTL STUD
0 - 7/8"
1 - 1 5/8"
2 - 2 1/2"
3 - 3 5/8"
4 - 4"
5 - 5"
6 - 6"

SHAFT WALL
2 - 2 1/2" SHAFT WALL FRAMING
4 - 4" SHAFT WALL FRAMING
6 - 6" SHAFT WALL FRAMING

TYPE MODIFIER:

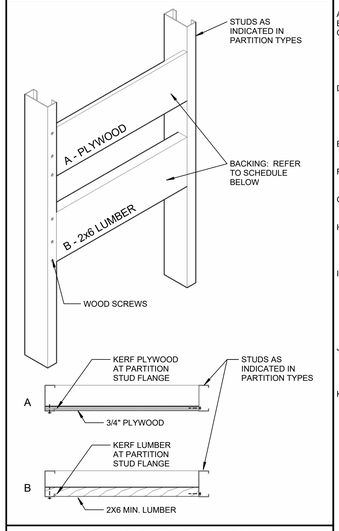
a. ACOUSTIC, SOUND, STC
b. EXPANDED METAL
c. EXPANDED METAL/ACOUSTIC, SOUND, STC
d. FIRE BARRIER
e. FIRE BARRIER/ACOUSTIC, SOUND, STC
f. FIRE PARTITION
g. FIRE PARTITION/ACOUSTIC, SOUND, STC
h. FIRE WALL
i. Do not use
j. FIRE WALL/ACOUSTIC, SOUND, STC
k. LEAD
l. Do not use
m. LEAD/ACOUSTIC, SOUND, STC
n. RF SHIELDED/ACOUSTIC, SOUND, STC
o. RF SHIELDED/ACOUSTIC, SOUND, STC/EXPANDED METAL
p. SECURITY
q. SECURITY/ACOUSTIC, SOUND, STC
r. SMOKE BARRIER
s. Do not use
t. RF SHIELDED/ACOUSTIC, SOUND, STC/LEAD

RATING:

0 - NON-RATED
1 - 1 HOUR
2 - 2 HOUR
3 - 3 HOUR
4 - 4 HOUR
5 - 1/2 HOUR

S - SMOKE

BACKING PLATE DETAIL:

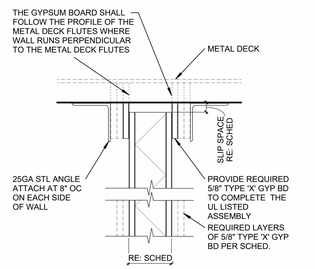


BACKING PLATE SCHEDULE

TYPE	A	B
DESCRIPTION	3/4" PLYWOOD	2X6 NOMINAL LUMBER

1. PROVIDE CONCEALED PLYWOOD OR LUMBER BACKING (FIRE-RETARDANT-TREATED WHERE REQUIRED) FOR SUPPORT OF WALL-MOUNTED GRAB BARS, HANDRAILS, FIXTURES, ACCESSORIES, SPECIALTIES, EQUIPMENT, TRIM AND CABINETS.
2. EXTEND BACKING TO NEXT STUD BEYOND ATTACHMENT LOCATION, BOTH DIRECTIONS.
3. ANCHOR BACKING SECURELY TO STUDS. KERF BACKING AT STUD FLANGES SO BACKING IS TIGHT TO BACK OF GYPSUM BOARD.

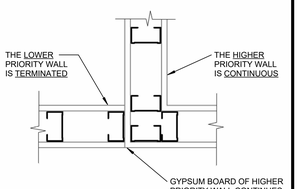
OPTIONAL HEAD DETAIL



PARTITION NOTES:

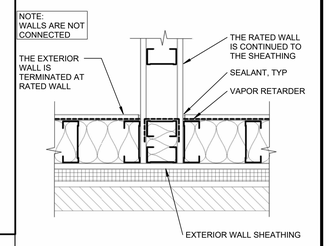
A. STUD SPACING IS 16 INCHES ON CENTER MAX.
B. REFER TO THE ARCHITECTURAL FLOOR PLANS (A100 SHEETS)
C. REFER TO THE DASHED LINES ON THE CODE PLANS (G005) FOR THE FIRE RATING LOCATIONS. PARTITIONS MUST CONFORM TO TESTED, RATED ASSEMBLIES WHEN THEY ARE INDICATED TO BE RATED ON THE ARCHITECTURAL CODE PLANS. WHEN NO RATING IS INDICATED, CONSTRUCT THE PARTITION PER THE INDICATED TYPE AS A NON-RATED ASSEMBLY.
D. LABEL FIRE AND SMOKE WALLS AS FOLLOWS: LABEL BOTH SIDES; LABEL ALL SECTIONS; USE 4" HIGH STENCILS; USE FLUORESCENT ORANGE PAINT; LOCATE ABOUT 12" ABOVE THE FINISHED CEILING; SPACE STENCILS 10 FEET OC MAX; SPECIFIC LABELS TO READ "1HR", "2HR", "1HR SMOKE", "2HR SMOKE", "SMOKE", ETC AS IDENTIFIED IN THE LIFE SAFETY PLANS.
E. PROVIDE STENCIL WITH THE LABEL "SOUND" AS DESCRIBED IN NOTE 3 ON ALL SOUND RATED WALLS IDENTIFIED BY A "#" SUFFIX AND THAT GO TO STRUCTURE.
F. PROVIDE FIRE STOP & SMOKE STOP SYSTEMS PER SPECIFICATION AT ALL PENETRATIONS & OPENINGS (INCLUDING THE PERIMETER) THROUGH FIRE RATED WALLS.
G. SEAL ALL PENETRATIONS & OPENINGS (INCLUDING THE PERIMETER) PER SPECIFICATIONS IN ALL SOUND RATED WALLS INDICATED BY A "#" SUFFIX.
H. THE PARTITION TYPES INDICATE THE BASIC WALL CONSTRUCTION ONLY. REFER TO ALL OF THE CONSTRUCTION DOCUMENTS FOR OTHER REQUIREMENTS INCLUDING: MECHANICAL, ELECTRICAL, PLUMBING, BLOCKING & BACKING, WALL BASE, WALL FINISH, AND RECESSED & SURFACE MOUNTED EQUIPMENT.
I. PROVIDE TESTED, RATED ASSEMBLIES AT THE TOP OF ALL PARTITIONS INDICATED TO BE FIRE OR SMOKE RATED THAT EXTEND TO THE BOTTOM OF STRUCTURE OR DECK ABOVE. ALL ASSEMBLIES SHALL BE TESTED BY UNDERWRITERS LABORATORY OR OTHER TESTING FACILITY ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION. PROVIDE A FIRE AND SMOKE RATING CONSISTENT WITH THE PARTITION. THE ASSEMBLY SHALL ALLOW VERTICAL MOVEMENT PER THE SLIP SPACE SCHEDULE.
J. WHEN WALLS CONTINUE PAST INTERMEDIATE STRUCTURE, FOR EXAMPLE IN MULTI-STORY STAIR ENCLOSURES, ATTACHMENT TO INTERMEDIATE STRUCTURE SHALL BE WITH A SLOTTED CONNECTION OR OTHER MEANS SO THAT STRUCTURAL DEFLECTION WILL NOT TRANSFER LOADS TO WALL FRAMING.
K. WHERE METAL DECK ASSEMBLIES AND FIRE RATED WALLS MEET, THE CONTRACTOR MAY INSTALL FIRE RATED MINERAL BATT INSULATION WITH FIRE CAULKING OR USE THE HEAD OF DETAIL SHOWN BELOW. THE SLIP SPACE SCHEDULE ON THIS SHEET TO COMPLETE THE UL LISTED ASSEMBLY.

PARTITION PRIORITY:

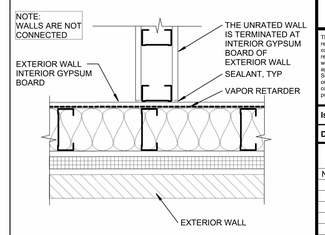


PARTITION TYPE	PRIORITY
3 HOUR FIRE	1 - HIGHEST
2 HOUR SHAFT	2
2 HOUR FIRE	3
1 HOUR SHAFT	4
1 HOUR	5
SMOKE	6
ACOUSTIC	7
NO FIRE OR ACOUSTIC RATING	8 - LOWEST

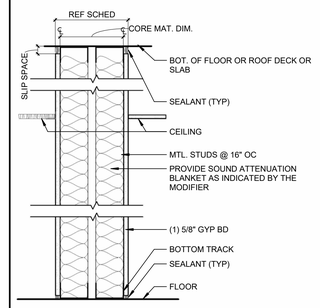
PARTITION TERMINATIONS AT EXTERIOR WALL:



RATED INTERIOR PARTITION



UNRATED INTERIOR PARTITION



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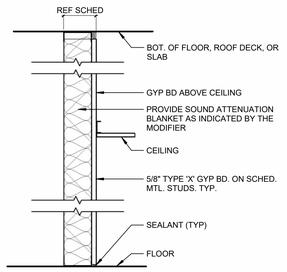

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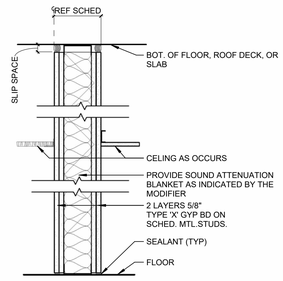

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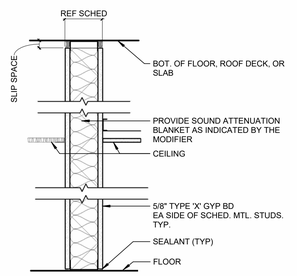

A

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PARTITION DETAILS AND NOTES

Treanor NO. HE0569.2401.00

DEMO PLAN NOTES - GENERAL

A. WHERE PORTIONS OF THE EXISTING WALLS ARE TO BE REMOVED, COORDINATE EXACT EXTENT OF DEMOLITION WITH NEW WORK. DIMENSIONS SHOWN ARE APPROXIMATE.

B. REPORT ANY UNKNOWN OR UNFORSEEN CONDITIONS DISCOVERED DURING DEMOLITION TO THE ARCHITECT AND OWNER.

C. NOTIFY ARCHITECT OF ANY UNPROTECTED OPENINGS OR PENETRATIONS IN RATED WALLS.

D. PREPARE EXISTING SURFACES INDICATED TO REMAIN TO RECEIVE NEW FINISH MATERIALS. PATCH AND REPAIR ALL ELEMENTS TO REMAIN THAT ARE AFFECTED BY THE DEMOLITION WORK.

E. FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION WORK TO AVOID UNNECESSARY POWER OUTAGES.

F. DEMOLISH ALL CEILINGS WITHING DEMOLITION EXTENTS. REMOVE LIGHT FIXTURES FROM CEILINGS SCHEDULED TO BE REMOVED. COORDINATE REMOVAL OF CIRCUIT WITH ELECTRICAL DRAWINGS AND SPECIFICATIONS.

G. REMOVE WIRING AND DATA DEVICES WHERE WALLS ARE SCHEDULED TO BE DEMOLISHED. COORDINATE REMOVAL OF CIRCUIT WITH ELECTRICAL DRAWINGS AND SPECIFICATIONS; PROVIDE APPROPRIATE LABELING AT THE BREAKER BOX.

H. REMOVE FIRE ALARM DEVICES AND WIRING WHERE HOSTING ELEMENT IS SHOWN TO BE DEMOLISHED. COORDINATE WITH REQUIREMENTS OF THE MEP DRAWINGS AND SPECIFICATIONS.

J. MAINTAIN ELELCTRICAL SERVICE TO AREAS OUTSIDE OF SCOPE OF WORK AT ALL TIMES.

K. DEMOLISH ALL FINISH FLOORING WITHIN DEMOLITION EXTENTS AND PREPARE CONCRETE SUBSTRATE FOR NEW FINISHES.

L. REFER TO ENGINEERING DEMOLITION DRAWINGS FOR ADDITIONAL REQUIREMENTS REGARDING LIGHTING, HVAC, AND OTHER DEVICES.

M. DEMOLISH ALL WALL BASE WITHIN PROJECT SCOPE. PREP SURFACE FOR NEW BASE.

N. REMOVE ALL COVERPLATES, SWITCHES, RECEPTACLES AND OTHER ITEMS THAT ARE ABANDONED AS PART OF THIS PROJECT, OR HAVE PREVIOUSLY BEEN ABANDONED, AND PREP. FOR PATCHING AND REPAIR OF SURFACE TO MATCH ADJACENT.

P. REMOVE ANY ROOM SIGNAGE WITHIN THE SUITE 111 SPACE.

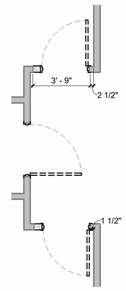
Q. REMOVE ANY MISCELLANEOUS WHITE BOARDS, BULLETIN BOARDS, PAPER TOWEL DISPENSERS, SOAP DISPENERS, FABRIC PANELS OR OTHER SURFACE MOUNTED ITEMS NOT IDENTIFIED IN THE NEW WORK AS PART OF THE FINISH.

R. REFER TO "DEMOLITION RCP LEGEND" FOR EXTENTS OF DEMOLITION SHOWN ON PLAN

S. COORDINATE WITH OWNER FOR POWER AND LIGHTING TO REMAIN IN SERVICE UPON COMPLETION OF DEMOLITION SCOPE.

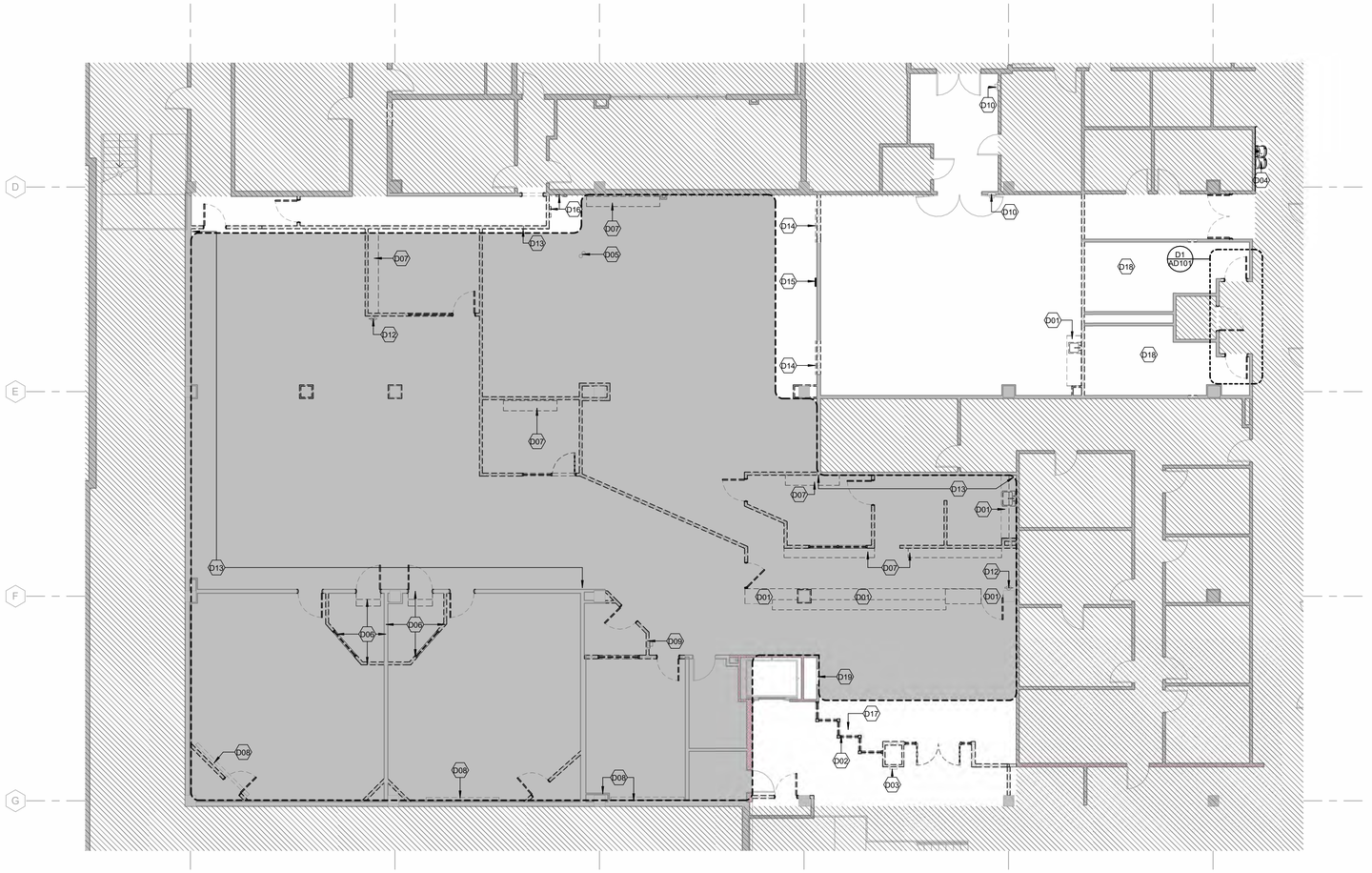
DEMOLITION FLOOR PLAN LEGEND

- AREA 'B', NOT IN CONTRACT. WORK PERFORMED UNDER PREVIOUS CONTRACT
- NOT IN SCOPE
- EXISTING WALL TO REMAIN. PROTECT IN PLACE
- EXISTING RATED WALL TO REMAIN- SEE LIFE SAFETY PLANS
- EXISTING DOOR, FRAME AND ASSOCIATED HARDWARE TO REMAIN. PROTECT IN PLACE.
- DEMOLISH WALL IN ITS ENTIRETY
- DEMOLISH DOOR AND FRAME IN ITS ENTIRETY. SALVAGE AND STORE EXISTING DOOR HARDWARE IN GOOD WORKING CONDITION
- DEMOLISH GLAZING AND FRAME IN ITS ENTIRETY.



ENLARGED DEMO PLAN - RESTROOM DOOR D1

1/4" = 1'-0"



DEMO PLAN - LEVEL 1 A1

1/8" = 1'-0"

0 4' 8' 16'

DEMO PLAN NOTES

D01	DEMOLISH MILLWORK, ACCESSORIES, AND SUPPORT ELEMENTS.
D02	DEMOLISH WIREGLASS AND METAL FRAMES
D03	SALVAGE "AED" EQUIPMENT AND CABINET TO OWNER IN REUSABLE CONDITION.
D04	REMOVE EXISTING WATER COOLER. PATCH AND REPAIR WALL AS REQUIRED.
D05	PLUMBING PIPING TO REMAIN. PROTECT IN PLACE.
D06	REMOVE ELEVATED WOOD-FRAMED PLATFORM IN ITS ENTIRETY.
D07	REMOVE SHELVING AND STANDARDS IN THEIR ENTIRETY.
D08	REMOVE CEILING MOUNTED PROJECTOR SCREEN, HOUSING, AND ASSOCIATED CONTROLS IN THIER ENTIRETY. PREP ABANDONED CONTROL PLATES FOR PATCH/REPAIR.
D09	REMOVE FIRE EXTINGUISHER CABINET AND SALVAGE FIRE EXTINGUISHER TO OWNER.
D10	EXISTING FIRE EXTINGUISHER CABINET TO REMAIN. PROTECT DURING CONSTRUCTION
D12	SALVAGE FIRE EXTINGUISHER TO OWNER.
D13	REMOVE FABRIC WALL PANELS.
D14	REMOVE DOOR FRAMES EMBEDDED INTO WALL, PATCH FOR SEAMLESS FINISH.
D15	REMOVE VERTICAL WALL PANEL. PATCH FOR SEAMLESS FINISH.
D16	REF. MEP DRAWINGS FOR RELOCATION OF ELECTRICAL PANELS.
D17	REMOVE OVERHEAD FIRE SHUTTER AND ALL MOUNTING ACCESSORIES
D18	EXISTING TILE IS ON MUD BED, REFER TO FINISH PLAN AND PREP FLOOR FOR LEVEL FLOOR FINSH THOUGHOUT
D19	REMOVE FIRE HOSE CABINET.

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DEMOLITION PLAN - LEVEL 1

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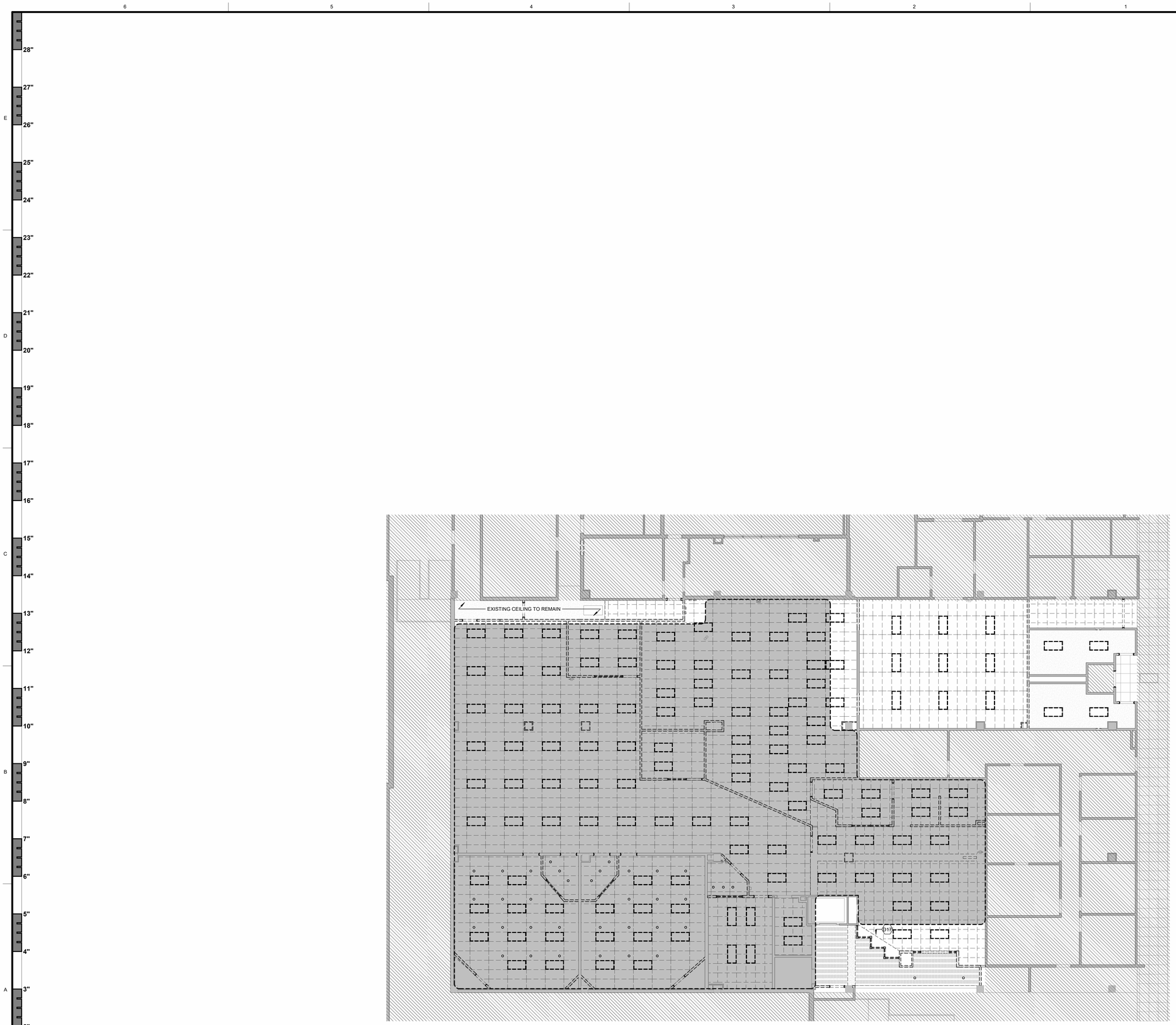

DEMO RCP - LEVEL 1 A1

1/8" = 1'-0"

0 4' 8' 16'

DEMO PLAN NOTES - GENERAL

A. WHERE PORTIONS OF THE EXISTING WALLS ARE TO BE REMOVED, COORDINATE EXACT EXTENT OF DEMOLITION WITH NEW WORK. DIMENSIONS SHOWN ARE APPROXIMATE.

B. REPORT ANY UNKNOWN OR UNFORSEEN CONDITIONS DISCOVERED DURING DEMOLITION TO THE ARCHITECT AND OWNER.

C. NOTIFY ARCHITECT OF ANY UNPROTECTED OPENINGS OR PENETRATIONS IN RATED WALLS.

D. PREPARE EXISTING SURFACES INDICATED TO REMAIN TO RECEIVE NEW FINISH MATERIALS. PATCH AND REPAIR ALL ELEMENTS TO REMAIN THAT ARE AFFECTED BY THE DEMOLITION WORK.

E. FIELD VERIFY EXISTING CONDITIONS PRIOR TO DEMOLITION WORK TO AVOID UNNECESSARY POWER OUTAGES.

F. DEMOLISH ALL CEILINGS WITHING DEMOLITION EXTENTS. REMOVE LIGHT FIXTURES FROM CEILINGS SCHEDULED TO BE REMOVED. COORDINATE REMOVAL OF CIRCUIT WITH ELECTRICAL DRAWINGS AND SPECIFICATIONS.

G. REMOVE WIRING AND DATA DEVICES WHERE WALLS ARE SCHEDULED TO BE DEMOLISHED. COORDINATE REMOVAL OF CIRCUIT WITH ELECTRICAL DRAWINGS AND SPECIFICATIONS; PROVIDE APPROPRIATE LABELING AT THE BREAKER BOX.

H. REMOVE FIRE ALARM DEVICES AND WIRING WHERE HOSTING ELEMENT IS SHOWN TO BE DEMOLISHED. COORDINATE WITH REQUIREMENTS OF THE MEP DRAWINGS AND SPECIFICATIONS.

J. MAINTAIN ELELCTRICAL SERVICE TO AREAS OUTSIDE OF SCOPE OF WORK AT ALL TIMES.

K. DEMOLISH ALL FINISH FLOORING WITHIN DEMOLITION EXTENTS AND PREPARE CONCRETE SUBSTRATE FOR NEW FINISHES.

L. REFER TO ENGINEERING DEMOLITION DRAWINGS FOR ADDITIONAL REQUIREMENTS REGARDING LIGHTING, HVAC, AND OTHER DEVICES.

M. DEMOLISH ALL WALL BASE WITHIN PROJECT SCOPE. PREP SURFACE FOR NEW BASE.

N. REMOVE ALL COVERPLATES, SWITCHES, RECEPTACLES AND OTHER ITEMS THAT ARE ABANDONED AS PART OF THIS PROJECT, OR HAVE PREVIOUSLY BEEN ABANDONED, AND PREP. FOR PATCHING AND REPAIR OF SURFACE TO MATCH ADJACENT.

P. REMOVE ANY ROOM SIGNAGE WITHIN THE SUITE 111 SPACE.

Q. REMOVE ANY MISCELLANEOUS WHITE BOARDS, BULLETIN BOARDS, PAPER TOWEL DISPENSERS, SOAP DISPENERS, FABRIC PANELS OR OTHER SURFACE MOUNTED ITEMS NOT IDENTIFIED IN THE NEW WORK AS PART OF THE FINISH.

R. REFER TO "DEMOLITION RCP LEGEND" FOR EXTENTS OF DEMOLITION SHOWN ON PLAN

S. COORDINATE WITH OWNER FOR POWER AND LIGHTING TO REMAIN IN SERVICE UPON COMPLETION OF DEMOLITION SCOPE.

DEMOLITION RCP LEGEND

- AREA 'B', NOT IN CONTRACT. WORK PERFORMED UNDER PREVIOUS CONTRACT
- NOT IN SCOPE
- EXISTING WALL TO REMAIN. PROTECT IN PLACE
- WALL TO BE DEMOLISHED IN ITS ENTIRETY
- ACOUSTIC CEILING PANEL AND GRID TO REMAIN (SIZES VARY AS SHOWN)
- EXISTING GYPSUM BOARD CEILING AND SOFFITS TO REMAIN. PROTECT IN PLACE
- GYPSUM BOARD CEILINGS AND SOFFITS TO BE DEMOLISHED
- ACOUSTIC CEILING PANEL AND GRID TO BE DEMOLISHED (SIZES VARY AS SHOWN)
- DEMOLISH EXISTING WOOD SLAT CEILING
- DEMOLISH TROFFER
- DEMOLISH RECESSED DOWNLIGHT

DEMO PLAN NOTES

D17	REMOVE OVERHEAD FIRE SHUTTER AND ALL MOUNTING ACCESSORIES

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DEMOLITION PLAN - RCP LEVEL 1

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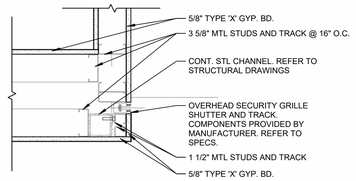
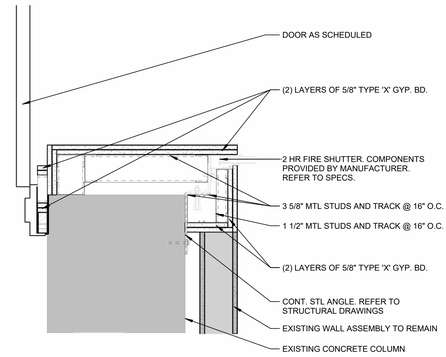


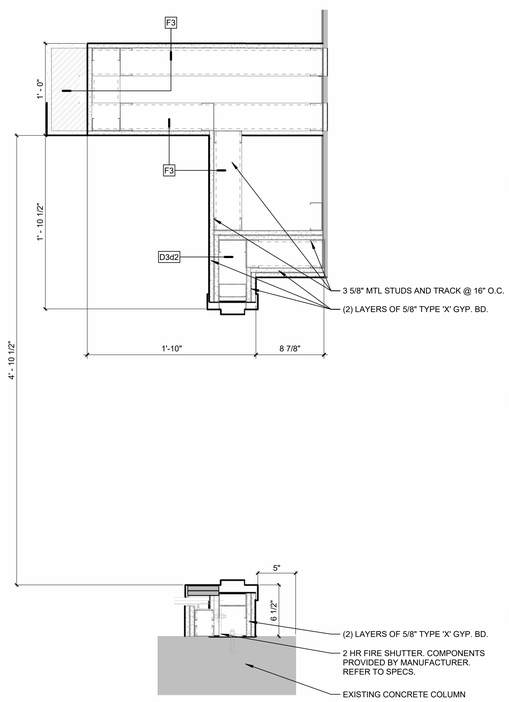
DETAIL AT SECURITY GRILLE D3

1 1/2" = 1'-0"



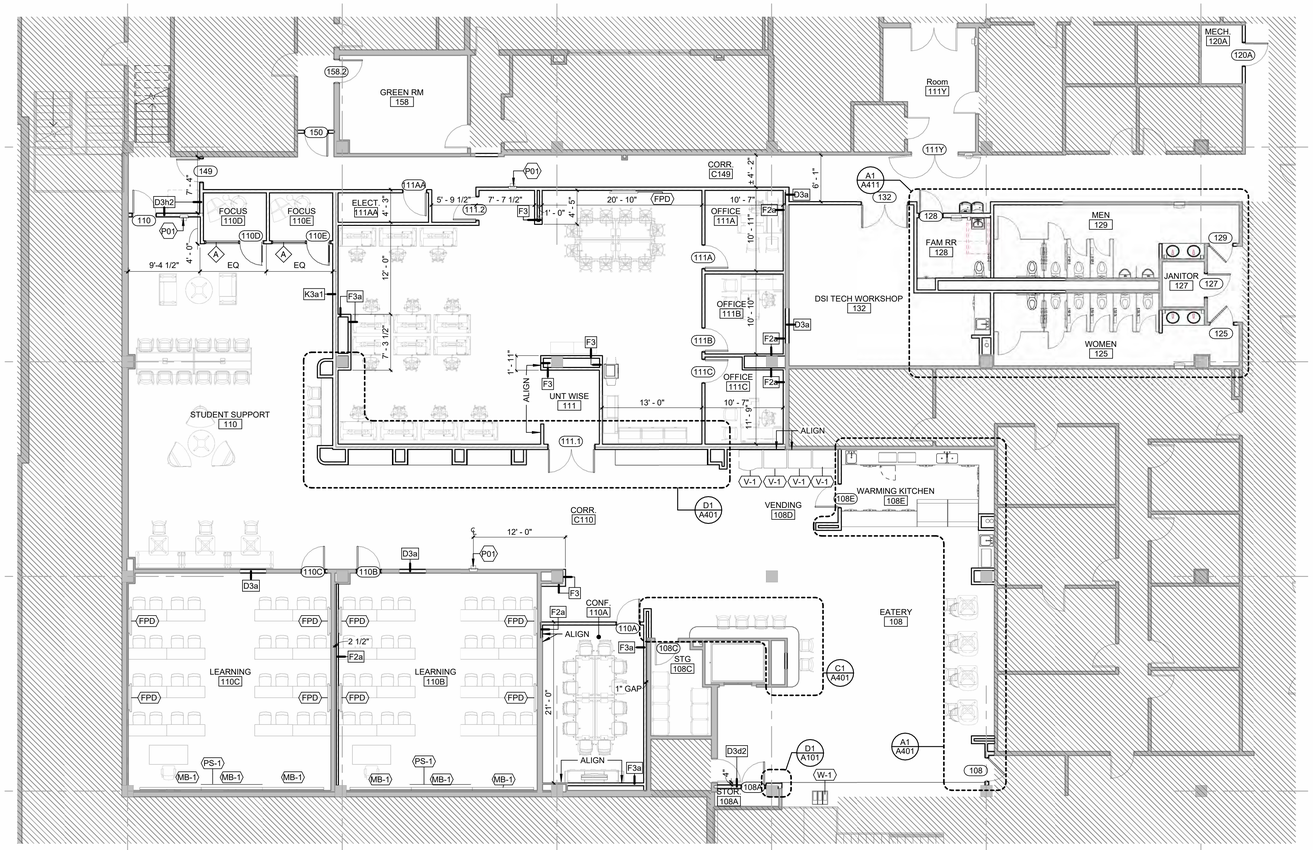
DETAIL AT FIRE DOOR D1

1 1/2" = 1'-0"



DETAIL AT FIRE SHUTTER - EGRESS DOOR A5

1 1/2" = 1'-0"



FLOOR PLAN - LEVEL 1 A1

0 4' 8' 16' 1/8" = 1'-0"

FLOOR PLAN NOTES-GENERAL

A. DO NOT SCALE DRAWINGS.
B. ALL DIMENSIONS ARE TO FACE OF FINISH, UNLESS OTHERWISE NOTED.
C. ALL ANGLES SHOWN ON THE FLOOR PLANS ARE 90 DEGREES UNLESS OTHERWISE NOTED.
D. FURNISHINGS (SHOWN IN HALFTONE) ARE SHOWN FOR GENERAL COORDINATION AND ARE NOT INCLUDED IN SCOPE OF WORK.
E. EQUIPMENT SHOWN FOR COORDINATION ONLY. REFER TO EQUIPMENT SCHEDULE FOR DIMENSIONS. VERIFY EQUIPMENT ROUGH-IN DIMENSIONS WITH MANUFACTURER AND/OR WITH REUSED OR EXISTING EQUIPMENT.
F. COORDINATE ALL FLOOR CORE DRILLING WITH EXISTING STRUCTURE.
G. PATCH AND LEVEL FLOOR SUBSTRATES TO RECEIVE NEW WORK AS SCHEDULED.
H. PATCH AND REPAIR CEILING AS REQUIRED FOR NEW LAYOUT. CONTRACTOR TO REPAIR ALL CEILINGS TO MATCH EXISTING WHERE PARTITIONS HAVE BEEN DEMOLISHED AND EXISTING CEILING IS TO REMAIN.
I. PATCH WALLS AT REMOVED RECEPTACLE OPENINGS SO AS TO RECEIVE SUBSEQUENT WORK.
J. PATCH EXISTING FIRE-RATED WALLS, FLOORS, CEILINGS, ETC. SO AS TO MAINTAIN THE FIRE-RATING. ADD FIRE-SMOKE DAMPERS WHERE NEW DUCTS CROSS. ADD FIRE STOP AT ALL PENETRATIONS.
K. PATCH EXISTING CONSTRUCTION SCHEDULED TO REMAIN. REPAIRED SURFACES TO BE FLUSH WITH ADJACENT FINISH SURFACES. PATCH, SAND, AND TEXTURE EXISTING SURFACES TO SAME QUALITY AS NEW CONSTRUCTION PRIOR TO INSTALLING NEW FINISHES. REFER TO THE FINISH MANUFACTURER'S GUIDELINES FOR INSTALLATION.
L. PROVIDE BLOCKING AS REQUIRED FOR MARKER BOARDS, DISPLAYS, AND ALL OTHER WALL MOUNTED ACCESSORIES PROVIDED BY OWNER. COORDINATE LOCATIONS WITH OWNER AND ARCHITECT.
M. ALL NEW PARTITIONS ARE A3a U.N.O.

FLOOR PLAN NOTES

P01	NEW FIRE EXTINGUISHER CABINET

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FLOOR PLAN - LEVEL 1

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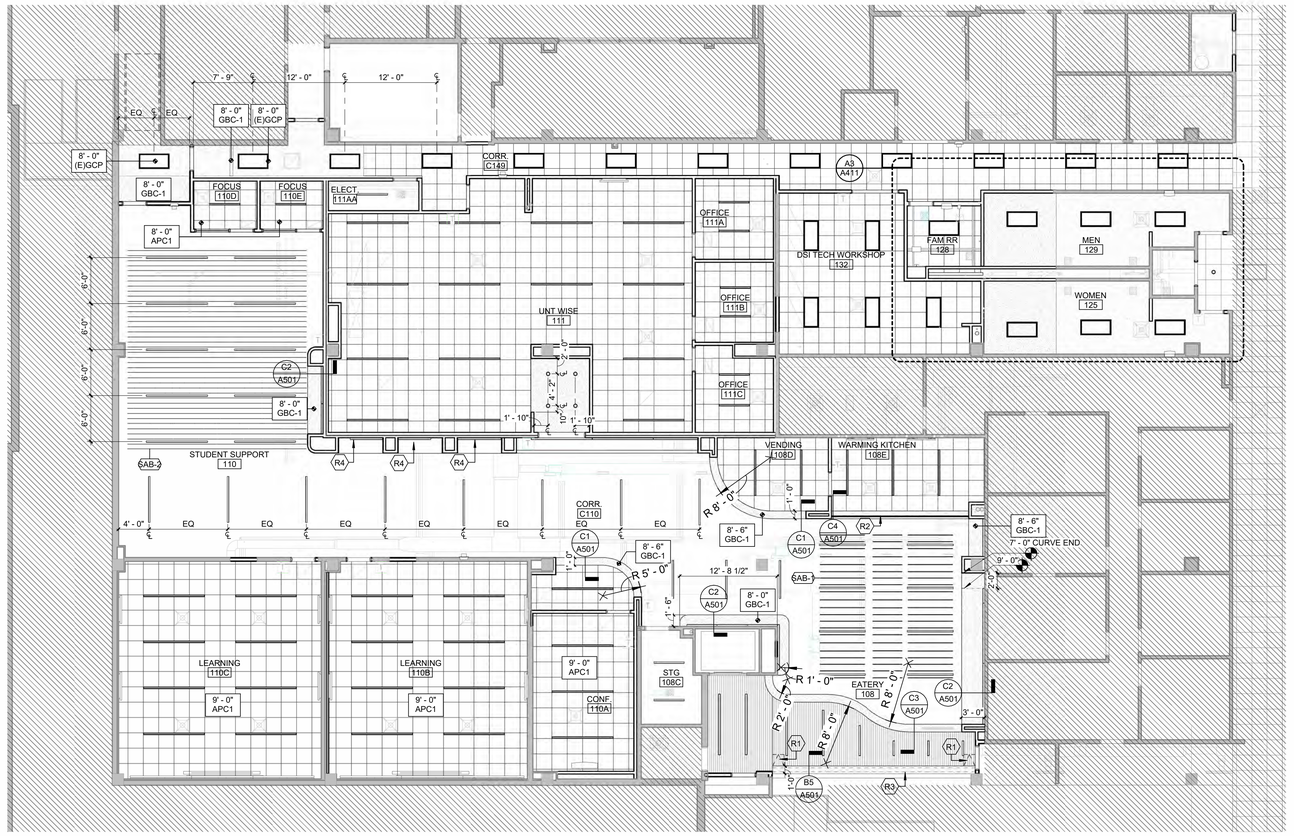
RCP NOTES-GENERAL

A. SUBMIT LAYOUT OF ALL GYPSUM BOARD CEILING CONTROL JOINTS FOR REVIEW.
B. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR MOUNTING LOCATIONS OF ITEMS WHERE NO CEILING IS REQUIRED OR INDICATED.
C. LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, AND FIREALARM SPEAKER/STROBES SHALL BE CENTERED IN THE CEILING TILES IN WHICH THEY OCCUR, UNLESS NOTED OTHERWISE.
D. CENTER ALL CEILING GRIDS IN EACH ROOM OR SPACE UNLESS OTHERWISE INDICATED WITH A GRID ORIGIN OR DIMENSION.
E. CLEAN CONCRETE AT ALL AREAS WHERE RCP CALLS FOR EXPOSED STRUCTURE. PAINT ALL EXPOSED DUCTWORK, PIPES, CONDUITS , ETC.
F. **ALL CEILINGS SHALL BE AT 9' - 0" A.F.F. UNLESS NOTED OTHERWISE.**

RCP PLAN NOTES

R1 PROVIDE ACCESS PANEL FOR OVERHEAD DOOR MOTOR ABOVE. COORDINATE WITH MANUFACTURER REQUIREMENTS.
R2 SLOT FOR SLIDING GRILLE. REFER TO DETAILS AND PROJECT MANUAL.
R3 OVERHEAD FIRE RATED SHUTTER ABOVE. REFER TO PROJECT SPECIFICATIONS
R4 REFER TO SHEET A401 FOR CURVE DETAILS AT SEATING ALCOVES



RCP - LEVEL 1 A1
1/8" = 1'-0"
0 4' 8' 16'

RCP PLAN LEGEND

- NOT IN SCOPE
- EXPOSED STRUCTURE
- ACOUSTICAL PANEL CEILINGS (APC) 2' x 2'
- GYPSUM BOARD CEILING ON METAL STUDS
- WOOD SLAT CEILING SYSTEM
- RECESSED CAN LIGHT
- RECESSED LINEAR LED FIXTURE (LENGTH VARIES AS SHOWN)
- RECESSED TROFFER LIGHT
- DIFFUSER-SUPPLY REFER TO MECHANICAL DRAWINGS
- DIFFUSER-RETURN REFER TO MECHANICAL DRAWINGS
- DIFFUSER-EXHAUST REFER TO MECHANICAL DRAWINGS
- STRIP DIFFUSER-SUPPLY REFER TO MECHANICAL DRAWINGS
- CEILING ACCESS PANEL

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RCP - LEVEL 1

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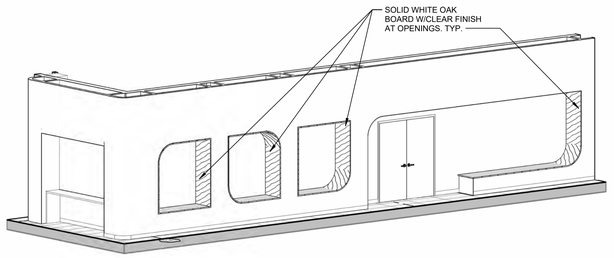
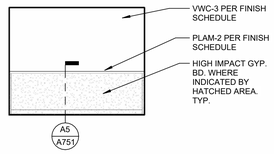
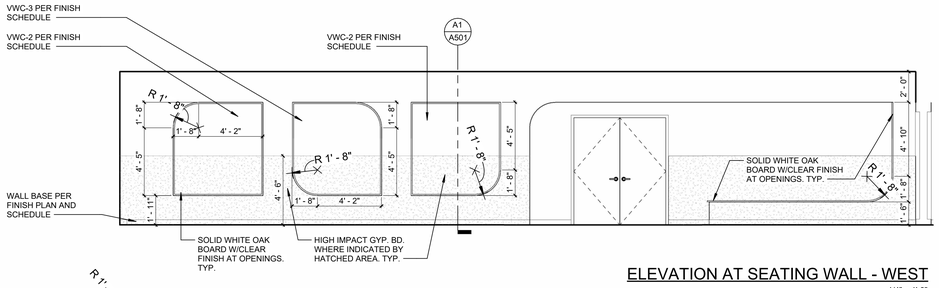


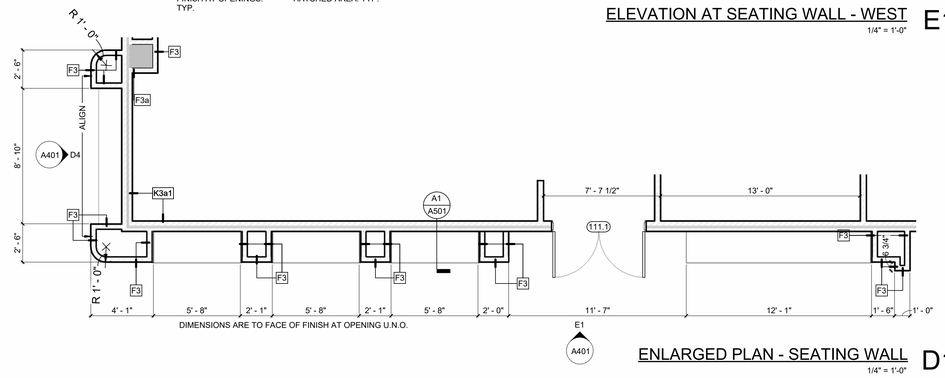
AXON AT SEATING WALL 1



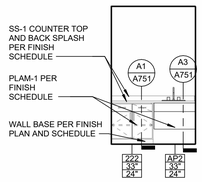
ELEVATION AT SEATING WALL - NORTH D4
1/4" = 1'-0"



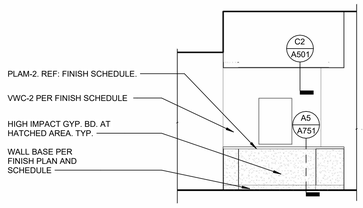
ELEVATION AT SEATING WALL - WEST E1
1/4" = 1'-0"



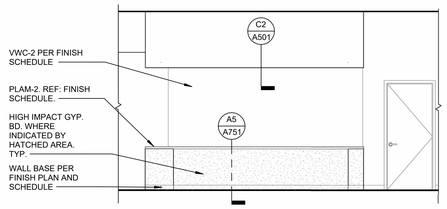
ENLARGED PLAN - SEATING WALL D1
1/4" = 1'-0"



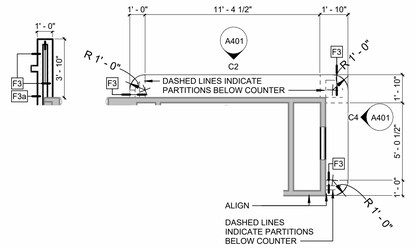
ELEVATION AT DSI MILLWORK C5
1/4" = 1'-0"



SOUTH INT. ELEVATION - FROM B1 C4
1/4" = 1'-0"

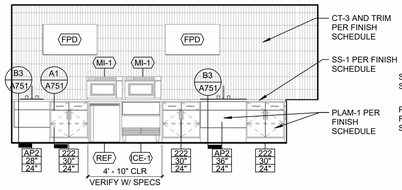


EAST INT. ELEVATION - FROM B1 C2
1/4" = 1'-0"

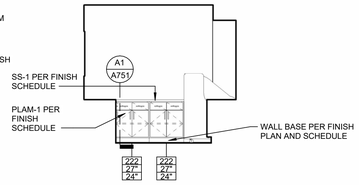


ENLARGED PLAN - CASEWORK AT ENTRY C1
1/4" = 1'-0"

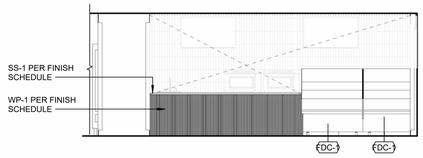
ENLARGED PLAN NOTES



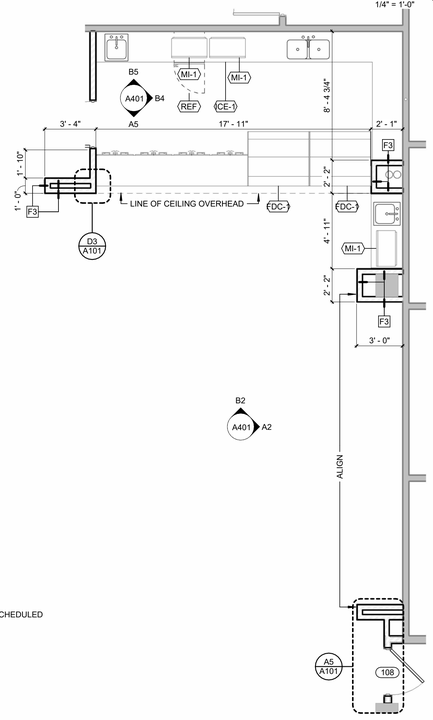
KITCHEN - WEST INT ELEVATION B5
1/4" = 1'-0"

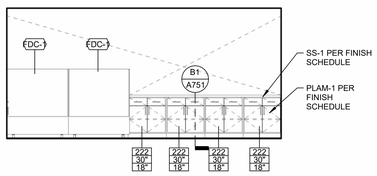


KITCHEN - NORTH INT. ELEVATION B4
1/4" = 1'-0"

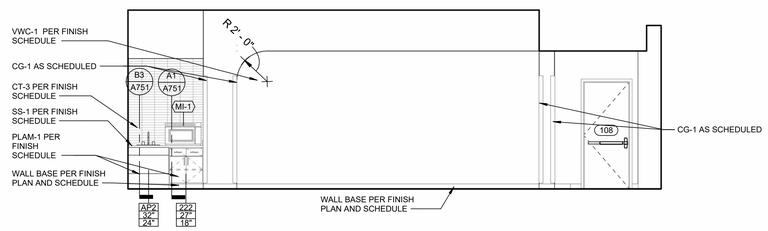


EATERY - WEST INT. ELEVATION B2
1/4" = 1'-0"





KITCHEN - EAST INT. ELEVATION A5
1/4" = 1'-0"



EATERY NORTH INT. ELEVATION A2
1/4" = 1'-0"

ENLARGED PLAN - KITCHEN AND EATERY A1
1/4" = 1'-0"

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ENLARGED PLANS

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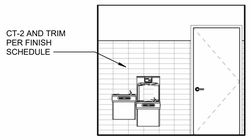
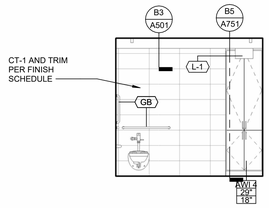
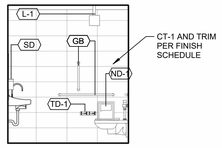
TOILET ACCESSORY SCHEDULE								
MARK	TYPE	MANUFACTURER	MODEL NAME	MODEL NUMBER	DIMENSIONS	COLOR	RESPONSIBILITY	NOTES
TP-1	TOILET PARTITION - FLOOR MOUNTED OVERHEAD BRACED	SCRANTON PRODUCTS	ECLIPSE		-	TBD	**CFCI**	REFER TO PROJECT MANUAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
PS-1	URINAL PRIVACY SCREEN - WALL MOUNTED	SCRANTON PRODUCTS	ECLIPSE		-	TBD	**CFCI**	
GB	GRAB BAR	BOBRICK	1-1/1" DIA. GRAB BAR WITH SNAP FLANGE	B-6806 SERIES	18", 36" AND 42" LENGTHS - SEE ELEVATIONS AND ACCESSIBILITY DETAILS FOR PLACEMENT	SATIN FINISH WITH PEENED GRIPPING SURFACE	**CFCI**	
PT-1	RECESSED PAPER TOWEL DISPENSER/WASTE RECEPTACLE	BOBRICK	-	B-43944		STAINLESS STEEL	**CFCI**	
TD-1	SURFACE MOUNTED TOILET TISSUE DISPENSER						OFOI	
SD-1	SURFACE MOUNTED SOAP DISPENSER						**CFCI**	
L-1	ADA LIFT	GULDMANN	REFER TO PROJECT MANUAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.				**CFCI**	
ND-1	SURFACE MOUNTED SANITARY NAPKIN DISPOSAL UNIT						**OFOI**	
M-1	SURFACE MOUNTED MIRROR	BOBRICK	-	B-290	24"W x 36"H		**CFCI**	



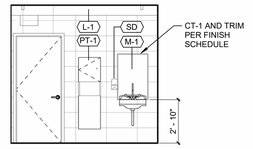
ELEVATION AT WATER FOUNTAIN C4
1/4" = 1'-0"



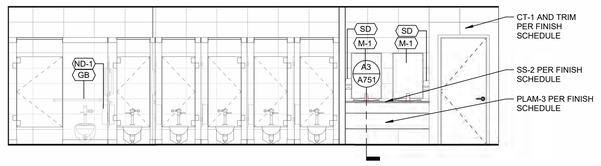
ELEVATION AT FAMILY RESTROOM - EAST C3
1/4" = 1'-0"



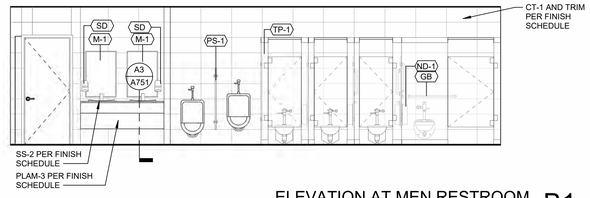
ELEVATION AT FAMILY RESTROOM - NORTH C2
1/4" = 1'-0"



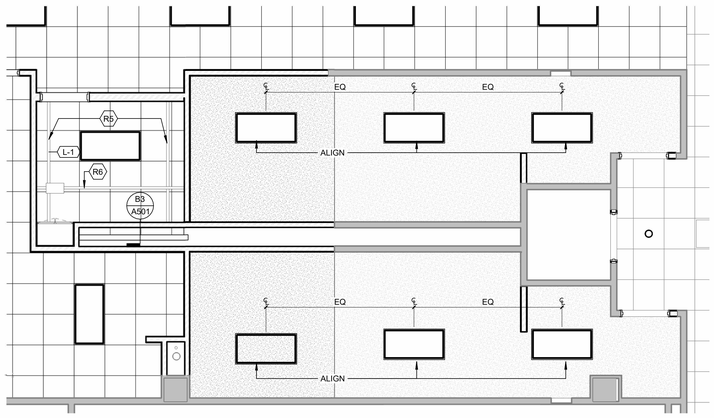
ELEVATION AT FAMILY RESTROOM - WEST C1
1/4" = 1'-0"



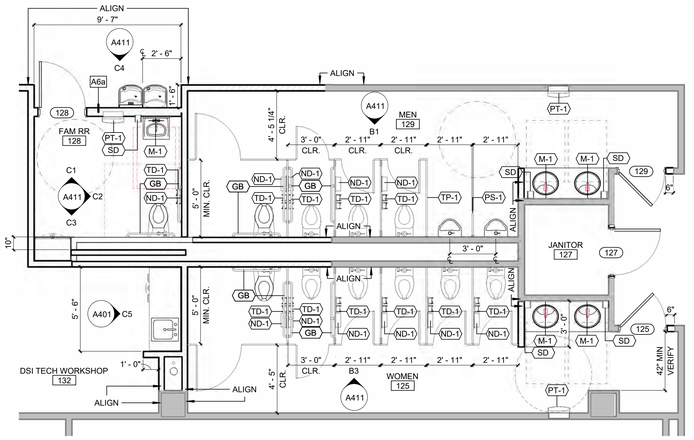
ELEVATION AT WOMEN RESTROOM B3
1/4" = 1'-0"



ELEVATION AT MEN RESTROOM B1
1/4" = 1'-0"



ENLARGED RCP - RESTROOMS A3
1/4" = 1'-0"



ENLARGED PLAN - RESTROOMS A1
1/4" = 1'-0"

RCP PLAN NOTES

R5 CEILING MOUNTED PATIENT LIFT RAILS, MOUNTED TO CONCRETE SLAB ABOVE

R6 PATIENT LIFT GANTRY RAIL

ENLARGED PLAN NOTES

REGISTERED ARCHITECT JASON TREANOR 23893 STATE OF TEXAS

01/16/2025

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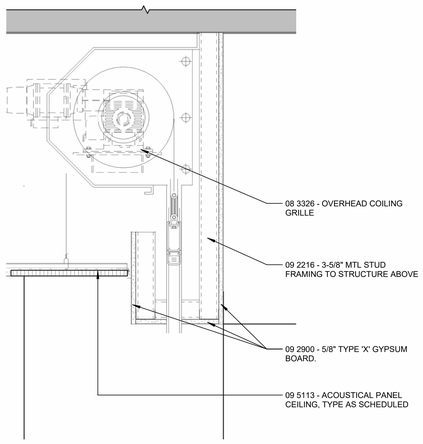
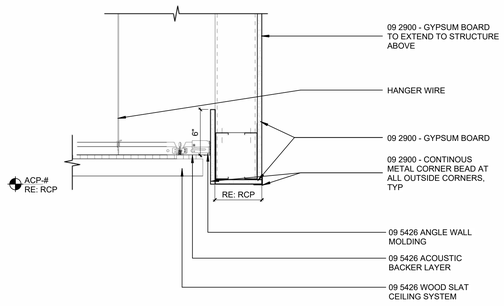
A411

ENLARGED RESTROOM PLANS, ELEVATIONS, AND ACCESSORY SCHEDULE

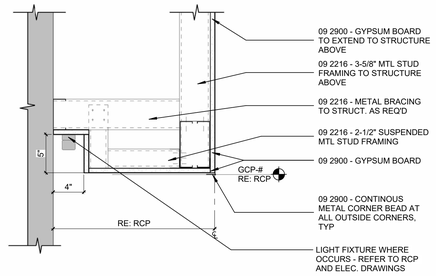
Treanor NO. HE0569.2401.00



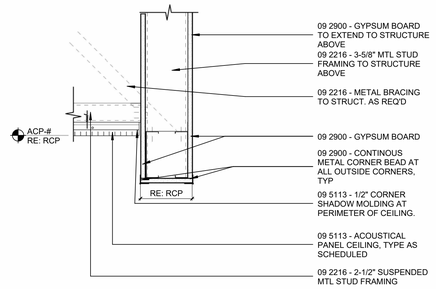
DETAIL AT KITCHEN SOFFIT C4
1 1/2" = 1'-0"



GYP HEADER TO WOOD SLAT SYSTEM C3
1 1/2" = 1'-0"



TYPICAL GYP SOFFIT C2
1 1/2" = 1'-0"



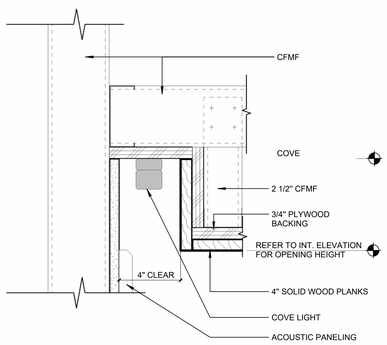
ACP TO GYP HEADER TO OPEN STRUCTURE C1
1 1/2" = 1'-0"

DETAIL AT FIRE SHUTTER B5
1 1/2" = 1'-0"

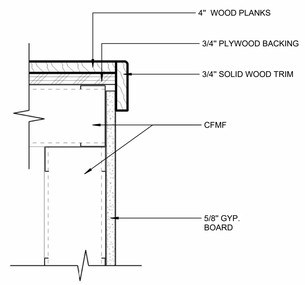
DETAIL AT RESTROOM WALL COVE B3
1 1/2" = 1'-0"

SECTION AT UNT WISE WALL - DETAIL 2 B2
3" = 1'-0"

SECTION AT UNT WISE WALL A1
1 1/2" = 1'-0"



LIGHT COVE DETAIL AT WISE WALL A3
3" = 1'-0"



SECTION AT UNT WISE WALL - DETAIL 1 A2
3" = 1'-0"

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INTERIOR DETAILS

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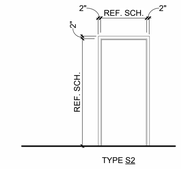
A602 - DOOR AND FRAME SCHEDULE

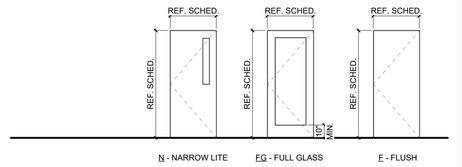
DOOR NO.	S/PR	DIMENSIONS		DOOR			FRAME			GLASS TYPE	DETAIL			FIRE RATING	HDWR GROUP	REMARKS
		WIDTH	HEIGHT	TYPE	MAT	FINISH	TYPE	MAT	FINISH		JAMB	HEAD	SILL			
108	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601	90 Min	701R	
108A	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601	90 Min	201C	
108C	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		C201	EXISTING TO REMAIN - ADD ACCESS CONTROL
108E	S	3' - 0"	7' - 0"	N	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		501C	
110	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601	90 Min	721 RALK	EGRESS ONLY (ALARMED)
110A	S	3' - 0"	7' - 0"	N		STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		C201AC	
110B	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		C201C	ACCESS CONTROL
110C	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		C201C	ACCESS CONTROL
110D		3' - 0"	7' - 10"	FG	ALUM/GL	STAIN	-	HM	PT	G-1	B3/A601	B3/A601	-		407A	
110E		3' - 0"	7' - 10"	FG	ALUM/GL	STAIN	-	HM	PT	G-1	B3/A601	B3/A601	-		401A	
111.1	PR	6' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		AC770	DOOR OPERATOR
111.2	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		501	
111A	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		103	
111AA	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		201	
111B	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		103	
111C	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		103	
111Y	PR	6' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT	G-1	B1/A601	B1/A601	B2/A601		004	EXISTING DOOR, ADD NARROW LITE KIT
120A	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		201C	
125	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		801	
127	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		201C	
128	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		301C	
129	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		801	
132	PR	6' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		C200S	
149	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601	90 Min	721R	
150	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		701	
158.2	S	3' - 0"	7' - 0"	F	WD	STAIN	S2	HM	PT		B1/A601	B1/A601	B2/A601		101	



TYPE S2

FRAME TYPES

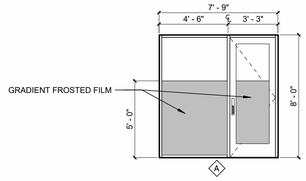
1/4" = 1'-0"



N - NARROW LITE FG - FULL GLASS E - FLUSH

DOOR TYPES

1/4" = 1'-0"



DOOR SCHEDULE NOTES:

1. REFER TO AXXX SERIES FOR DOOR HEAD JAMB AND SILL DETAILS.
2. ALL DOORS IN SMOKE RESISTANT PARTITIONS TO HAVE POSITIVE LATCHING.
3. FIRE-RATING GLAZING IN DOORS SHALL MEET THE FIRE RATING REQUIREMENT OF THE DOORS TO WHICH THEY ARE INSTALLED.
4. ALL DOORS TO HAVE BOXED HEADERS UNLESS STEEL CHANNELS ARE INDICATED IN THE REMARKS COLUMN OF THE DOOR SCHEDULE OR UNLESS OTHERWISE INDICATED BY HEAD DETAIL.

DOOR SCHEDULE REMARKS:

1. PROVIDE WITH MAGNETIC HOLD OPEN
2. VIEW WINDOWS IN LARGER LEAF ONLY
3. REFER TO A601 (VIEW WINDOW SCHEDULE) FOR ELEVATION OF INTERIOR DOOR WITH A SIDELIGHT
4. AUTOMATIC CARD SWIPE DOOR
5. INTEGRAL BLINDS (CONTROLS ON INTERIOR ROOM SIDE ONLY)
6. DOOR SWINGS 180°
7. DOOR SWINGS BOTH WAYS
8. ISOLATION PATIENT ROOM DOOR REQUIRES A CLOSER
9. INTEGRATED FIRE DOOR ASSEMBLY
10. ALUMINUM FRAMED STOREFRONT, REFER TO A33 SERIES (EXTERIOR GLAZED OPENING SCHEDULE) FOR ELEVATION
11. GLAZED ALUMINUM CURTAIN WALL SYSTEM DOORS, REFER TO A33 SERIES (EXTERIOR GLAZED OPENING SCHEDULE) FOR ELEVATION
12. PROVIDE STEEL CHANNEL FRAME AT HEAD AND JAMB OF DOOR PER DETAILS X/XXX-XX AND X/AXX-XX
13. SECTIONAL OVERHEAD DOOR
14. REVOLVING DARK ROOM DOOR
15. RADIATION PROTECTION DOOR AND FRAME
16. SOUND CONTROL DOOR ASSEMBLY

GLAZING TYPES:

REFER TO SPECIFICATION FOR MORE DETAILS

G-1 Outboard: 1/4" Clear Glass
Interlayer: 0.06" Clear PVB Laminate
Inboard: 1/4" Clear Glass

G-2 1/4" Clear Glass

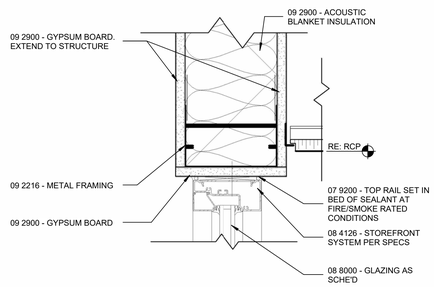
FG-1 Fire-Protective Glass, 90MIN Fire Rated

NOTE: ALL GLAZING TO BE TEMPERED GLAZING

GLAZING SYSTEM TYPES:

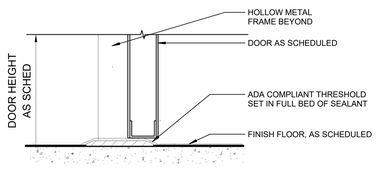
A INTERIOR STOREFRONT SYSTEM

NOTE: ALL OVERALL GLAZING SYSTEM DIMENSIONS ARE TO ROUGH OPENING



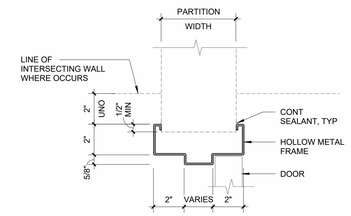
HEAD @ STOREFRONT B3

3" = 1'-0"



TYP. INTERIOR HM DOOR SILL B2

3" = 1'-0"



TYP. INTERIOR HM DOOR JAMB/HEAD B1

3" = 1'-0"

EQUIPMENT SCHEDULE

TAG	EQUIPMENT TYPE	MANUFACTURER	MODEL	DIMENSIONS	COLOR	PROVIDED BY	TYPE COMMENTS
CP-1	COPIER/PRINTER			-		OFOI	
FDC-1	FOOD DISPLAY CASE	TBD				CFCI	
FPD	FLAT PANEL DISPLAY	-		-		OFOI	
ICE-1	UNDERCOUNTER ICEMAKER	SCOTSMAN	CU0920	20"Wx24"Dx31.9"H	STANDARD FINISH	CFCI	
MB-1	MARKER BOARD	Steelcase		-	-	OFOI	
MI-1	MICROWAVE	GE	PCWK22U1WDD	24"Wx20"Dx14"H	GRAY	CFCI	
PS-1	PROJECTION SCREEN	-	-	-	-	OFOI	
REF	UNDERCOUNTER REFRIGERATOR	MARVEL	MARE224-SS41A	24"Wx24"Dx31"H	DOOR: STAINLESS STEEL/ SIDES AND TOES: BLACK	CFCI	
V-1	VENDING MACHINE	-		-	-	OFOI	
W-1	TRASH/RECYCLE BIN			-	-	OFOI	

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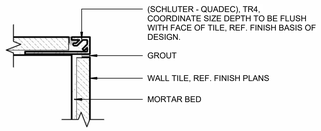
DOOR, INTERIOR GLAZING, AND EQUIPMENT SCHEDULE

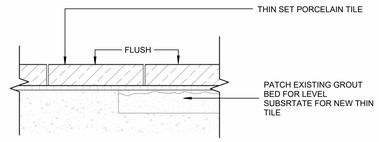
Treanor NO. HE0569.2401.00

A700 - BASIS-OF-DESIGN INTERIOR FINISHES

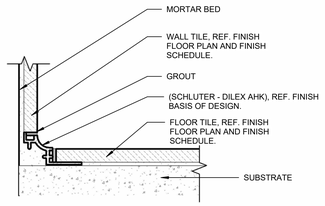
KEY NAME	MATERIAL	MANUFACTURER	STYLE / COLOR / SIZE	REMARKS
FLOOR FINISH				
CPT-1	CARPET TILE	EF CONTRACT	SPECTRAL DRIFT SDF38 VIRIDIAN	
CPT-2	CARPET TILE	INTERFACE	COLLECTION: WOOVEN GRADIENCE - COLOR: WG100 - 108058 PINE	
LVT-1	LUXURY VINYL PLANK	EF CONTRACT	PLATEAU 2.5mm - EARTH	
LVT-2	LUXURY VINYL PLANK	EF CONTRACT	PLATEAU 2.5mm - UMBRA	
PFT-1	PORCELAIN FLOOR TILE	DALTILE	COLLECTION: FABRIQUE - COLOR: GRIS LINEN P690 - RECTANGLE 12X24	
QFT-1	QUARRY FLOOR TILE			
SC	SEALED CONCRETE	-		REFER TO PROJECT MANUAL FOR SPECS
TR-1	TRIM			
TR-1	TRIM			
BASE FINISH				
RB-1	RUBBER BASE	ROPPE	PINNACLE RUBBER BASE - Somber	
WALL FINISHES				
CG-1	CORNER GUARD			REFER TO PROJECT MANUAL FOR SPECS
CT-1	CERAMIC TILE	DALTILE	COLLECTION: SHOWSCAPE - COLOR: STYLISH WHITE RECTANGLE BRUSHSTROKE SH09- SIZE: 12X24	
CT-2	CERAMIC TILE	DALTILE	COLLECTION: MYTHOLOGY - COLOR: CYCLADE RECTANGLE WAVE CREST MY94 - SIZE: 4X12	
CT-3	CERAMIC TILE	NASCO STONE+TILE	URANO VERDE/ GLOSSY CR-LC-UV-G	
PT-1	INTERIOR PAINT	SHERWIN WILLIAMS	HARMONY - SEMIGLOSS COLOR: SW7636 WHITE ORIGAMI	
PT-2	INTERIOR PAINT	SHERWIN WILLIAMS	HARMONY - EGGSHELL COLOR SW7502 DRY DOCK	
PT-3	INTERIOR PAINT	SHERWIN WILLIAMS	HARMONY - EGGSHELL COLOR SW6186 DRIED THYME	
TR-1	TILE TRIM	SCHLUTER	RONDEC ALUMINUM PROFILE - COLOR: MATTE WHITE - HEIGHT: 10mm (3/8")	AT RESTROOM WALL CORNERS
TR-2	TILE TRIM	SCHLUTER	DILEX-AHK ALUMINUM PROFILE - FINISH: SATIN ANODIZED - HEIGHT: 10mm	AT RESTROOM INSIDE WALL CORNERS AND WALL/FLOOR TRANSITIONS
VWC-1	VINYL WALL COVERING	MAHARAM	CASCADE -399852-008 AVOCADO	
VWC-2	VINYL WALL COVERING	MAHARAM	TEK-WALL LUCENT - 009 ALOCASIA	
VWC-3	VINYL WALL COVERING	MAHARAM	TEK-WALL LUCENT - 007 RIVERWAY	
WP-1	WOOD WALL PANELING	SURFACING SOLUTION	332 - WIRE BRUSHED WHITE OAK FLEXIBLE WOOD TAMBOUR - CLEAR POLYURETHANE FINISH.	
CEILING FINISHES				
APC1	2X2 ACOUSTICAL PANEL CEILING	ARMSTRONG COMMERCIAL	OPTIMA / WHITE / 24" x 24"	NRC .95
GBC-1	GYPSUM BOARD CEILING	-	-	
SAB-1	SUSPENDED ACOUSTICAL BAFFLES	MPS ACOUSTICS	EDGE CEILING BAFFLES - 7" H - PROFILE: CLASSIC - COLOR: MAIN STREET ELM	INSTALLATION HEIGHT: 9' 6" AFF. CONSULT WITH OWNER/ARCHITECT FOR FINAL LAYOUT
SAB-2	SUSPENDED ACOUSTICAL BAFFLES	MPS ACOUSTICS	LONDE CEILING BAFFLES - 7 3/4" H - COLOR: OCEAN	INSTALLATION HEIGHT: 9' 6" AFF. CONSULT WITH OWNER/ARCHITECT FOR FINAL LAYOUT
WSC-1	WOOD SLAT CEILING SYSTEM	ARMSTRONG COMMERCIAL	WOODWORKS GRILLE - FORTE SOLID WAL PANELS GRILLE	
MILLWORK FINISHES				
PLAM-1	PLASTIC LAMINATE	FORMICA	HPL COLLECTION - COLOR: NATURAL ASH - WOODBRUSH	
PLAM-2	PLASTIC LAMINATE	FORMICA	FENIX - COLOR: BIANCO MALE	
PLAM-3	PLASTIC LAMINATE	FORMICA	LAMINATE ANTIMICROBIAL COLLECTION - COLOR: 961A FOG ANTIMICROBIAL	
SS-1	SOLID SURFACE	ZODIAQ	MARBLE MIST	
SS-2	SOLID SURFACE	ZODIAQ	HI-MACS, COLOR:MOON DUST	
WINDOW TREATMENTS				
PF1	PRIVACY FILM	SOLYX	PATTERN: SX-9100 CHICAGO	



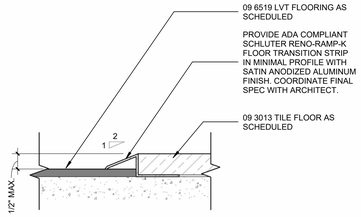
WALL TILE OUTSIDE CORNER TRIM B3
12" = 1'-0"



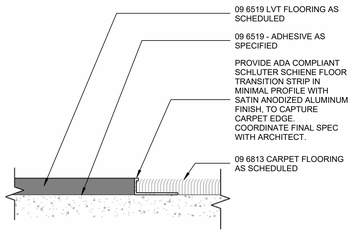
DETAIL AT RESTROOM FLOOR TILE B1
12" = 1'-0"



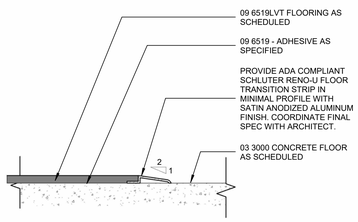
WALL/FLOOR TILE TRANSITION A5
12" = 1'-0"



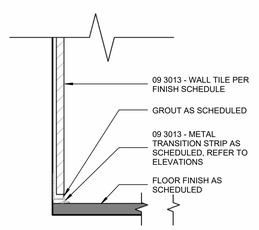
LVT TO TILE A4
12" = 1'-0"



CARPET TO LVT A3
12" = 1'-0"



CONCRETE TO LVT A2
12" = 1'-0"



BASE AT TILE WALL A1
6" = 1'-0"

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01/16/2025

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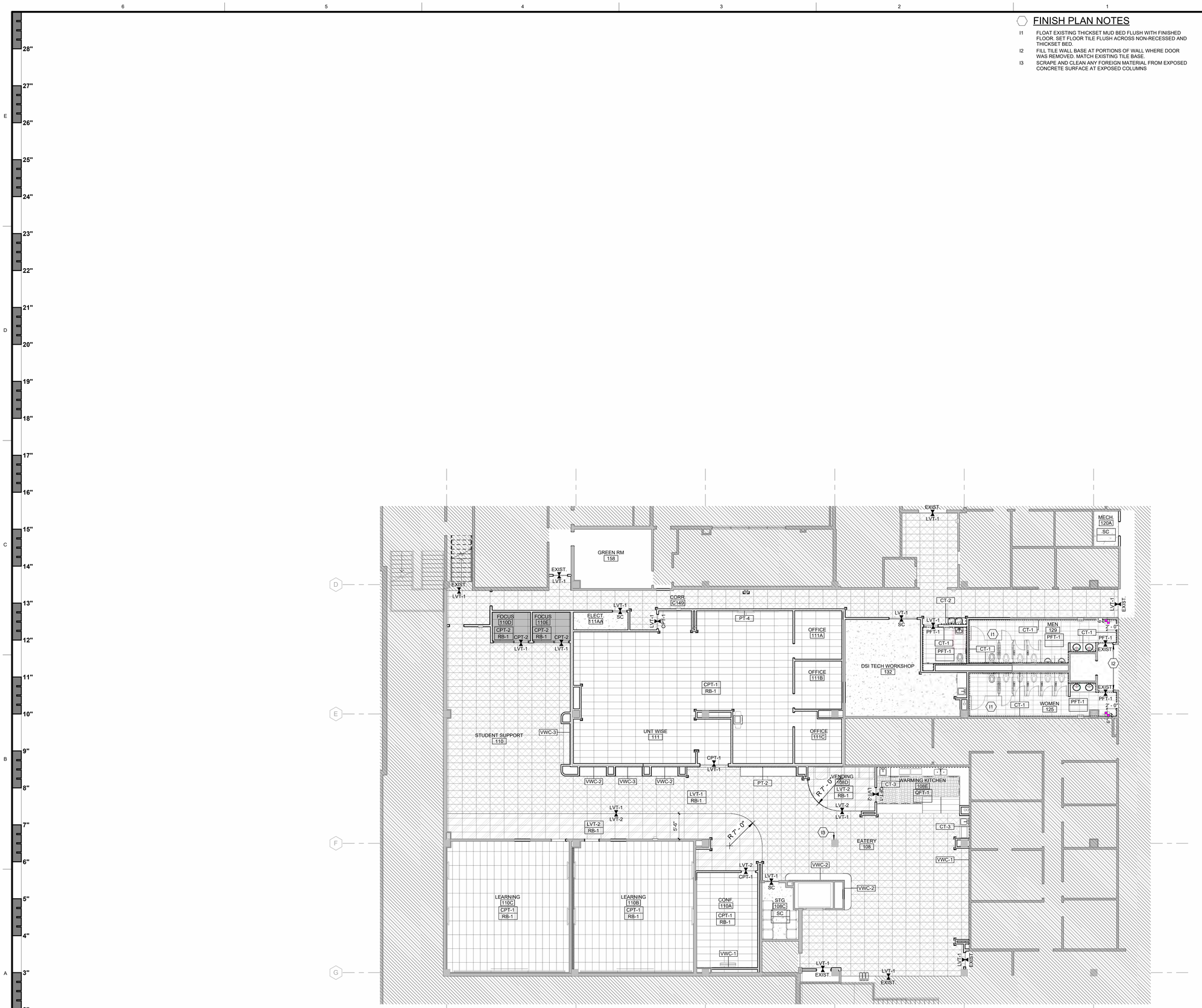
A701

FINISH SCHEDULE

Treanor NO. HE0569.2401.00



FINISH PLAN NOTES

I1 FLOAT EXISTING THICKSET MUD BED FLUSH WITH FINISHED FLOOR. SET FLOOR TILE FLUSH ACROSS NON-RECESSED AND THICKSET BED.

I2 FILL TILE WALL BASE AT PORTIONS OF WALL WHERE DOOR WAS REMOVED. MATCH EXISTING TILE BASE.

I3 SCRAPE AND CLEAN ANY FOREIGN MATERIAL FROM EXPOSED CONCRETE SURFACE AT EXPOSED COLUMNS

FINISH PLAN NOTES-GENERAL

A. REFER TO SHEET A700 FOR INTERIORS FINISH SCHEDULE AND TRANSITION DETAILS.
B. PROVIDE FLOOR TRANSITIONS AT CENTER OF DOOR.
C. PROVIDE THRESHOLDS WHERE FLOOR CHANGES OCCUR. REFER TO FLOOR TRANSITION DETAILS ON SHEET A700.
D. CONFIRM ORIENTATION OF DIRECTIONAL MATERIAL WITH ARCHITECT PRIOR TO ORDERING AND INSTALLATION.
E. REF. INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
F. FINISH FLOORING CONTINUES UNDER COUNTERTOPS, KNEE SPACES, TOE KICKS, VANITIES, PLUMBING FIXTURES, REMOVABLE MILLWORK, FURNITURE, AND EQUIPMENT, ETC. U.N.O.
G. PROVIDE CONTROL JOINTS IN FLOOR TILE AND WALL TILE PER TCNA STANDARDS.SUBMIT SHOP DRAWINGS TO ARCHITECT FOR REVIEW.
H. HATCH PATTERN(S) ARE FOR MATERIAL GRAPHIC REPRESENTATION ONLY AND ARE NOT INDICATIVE OF PATTERN, SIZE, ORIENTATION OR INSTALLATION METHOD OF ANY FINISH PRODUCT, U.N.O.
I. PAINT WALL ACCESS PANELS AND GRILLS TO MATCH ADJACENT SURFACES, U.N.O.
J. PAINT CEILING ACCESS PANELS AND REGISTERS TO MATCH ADJACENT SURFACE, U.N.O.
K. REF. PROJECT SPECIFICATIONS AND MANUFACTURER INSTALLATION SPECIFICATIONS FOR FLOOR AND WALL FINISH SUBSTRATE PREP AND INSTALLATION REQUIREMENTS.
L. ALL DOOR FRAMES AND TRIM TO BE PAINTED PER DOOR SCHEDULE.
M. REF. FLOOR PLANS AND PARTITION TYPES FOR MATERIAL SUBSTRATES.
N. REF. RCP'S FOR CEILING MATERIAL INFORMATION AND FINISHES.
O. TYPICAL WALL PAINT- PT-1 U.O.N.
P. ALL ACCENT WALL PAINT LOCATIONS AND WALLCOVERING LOCATIONS TO HAVE LEVEL 5 FINISH TYP.
Q. TYPICAL WALL BASE IS RB-1 AT LVT,CARPET AND EXPOSED CONCRETE FLOORING LOCATIONS, U.O.N.
R. FOR TYPICAL WALL BASE AT CERAMIC OR PORCELAIN TILE WALLS, REFER TO DETAIL A5/A700.

FINISH PLAN LEGEND

- NOT IN SCOPE
- CARPET TILE CPT-1
- CARPET TILE CPT-2
- LUXURY VINYL PLANK TILE LVT-1
- LUXURY VINYL PLANK TILE LVT-2
- QUARRY FLOOR TILE QFT-1
- PORCELAIN FLOOR TILE PFT-1
- SEALED CONCRETE

OPEN AREA FLOOR TRANSITION TAG

TAG / TAG — FLOOR FINISH / TRANSITION / FLOOR FINISH

FLOOR TRANSITIONS IDENTIFIED ONLY WHERE FLOOR MATERIAL CHANGES OCCUR WITHIN A ROOM OR SPACE - REFERENCE ROOM FINISH TAGS FOR FINISH CHANGES BETWEEN ROOMS.

FLOOR & WALL BASE TAG

X-X — FLOOR FINISH / X-X — WALL BASE

WALL ACCENT TAG

WALL PARTITION
WALL ACCENT FINISH EXTENTS
WALL ACCENT FINISH TAG

'WALL ACCENT FINISH' OCCURS FLR. TO CEILING U.N.O., WHERE 'EXTENTS' LINE CONTINUES OVER DOOR/ FRAME/ WINDOW - IT IS NOT INTENTED FOR THESE ITEMS TO RECEIVE THE ACCENT FINISH. REF. FINISH SCHEDULES FOR FIELD FINISH INFORMATION.

SPECIALTY EQUIPMENT TAG

SPECIALTY EQUIPMENT FINISH TAG
CG-1 CORNER GUARD PER FINISH SCHEDULE
FINISH STARTING POINT

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

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FINISH PLANS - LEVEL 1

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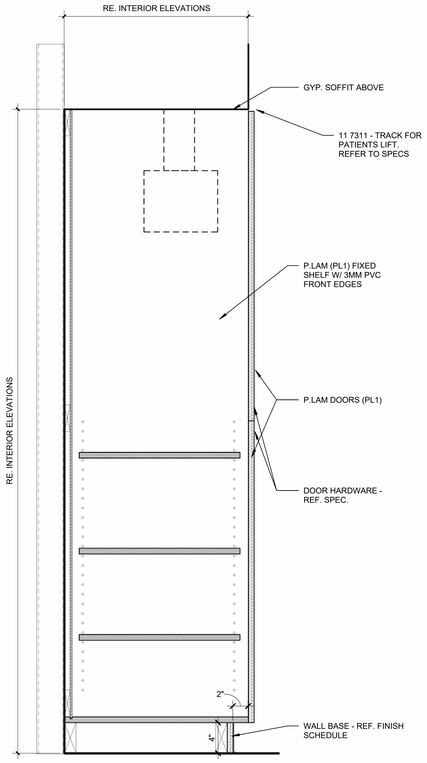
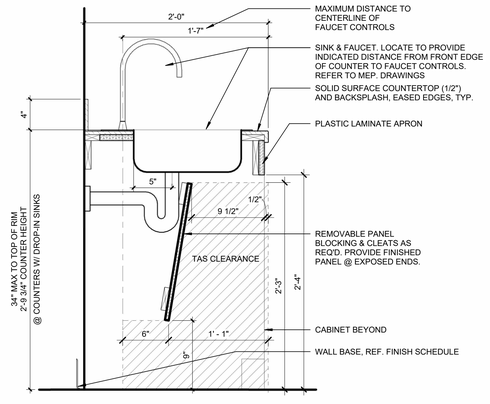


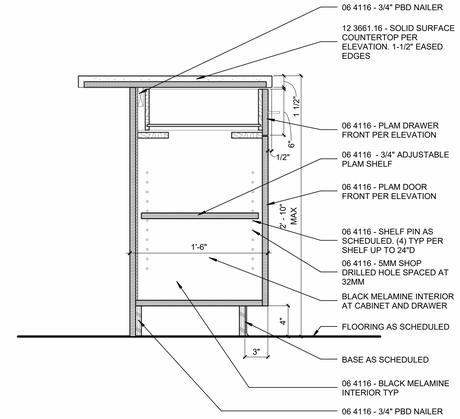
SECTION AT FAMILY RESTROOM CABINET B5

1 1/2" = 1'-0"



TYP. SINK BASE CABINET B3

1 1/2" = 1'-0"

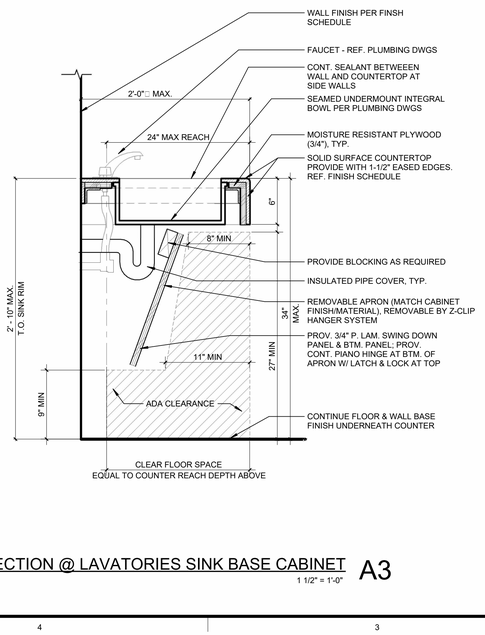


BASE CABINET AT TRANSACTION COUNTER B1

1 1/2" = 1'-0"

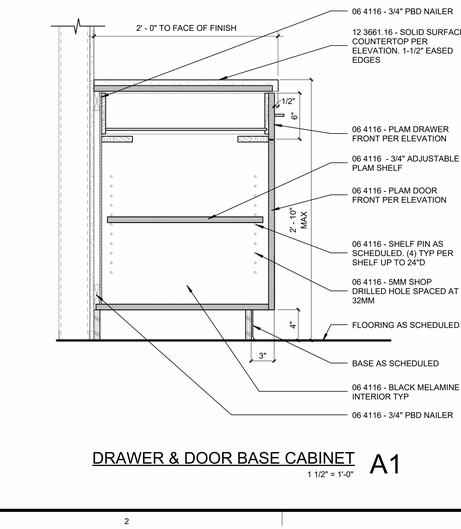
WALL MOUNTED COUNTERTOP A5

1 1/2" = 1'-0"



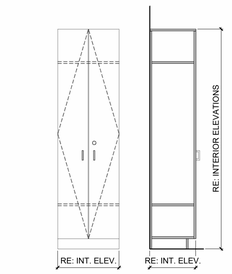
SECTION @ LAVATORIES SINK BASE CABINET A3

1 1/2" = 1'-0"



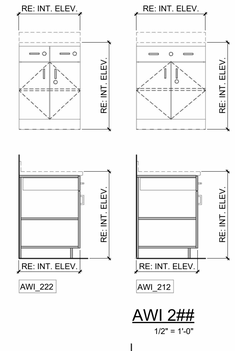
DRAWER & DOOR BASE CABINET A1

1 1/2" = 1'-0"



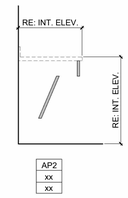
AWI 4##

1/2" = 1'-0"



AWI 2##

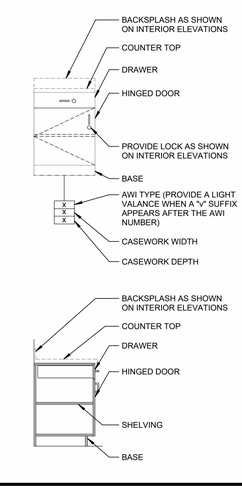
1/2" = 1'-0"



AWI AP#

1/2" = 1'-0"

AWI CASEWORK LEGEND



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A751

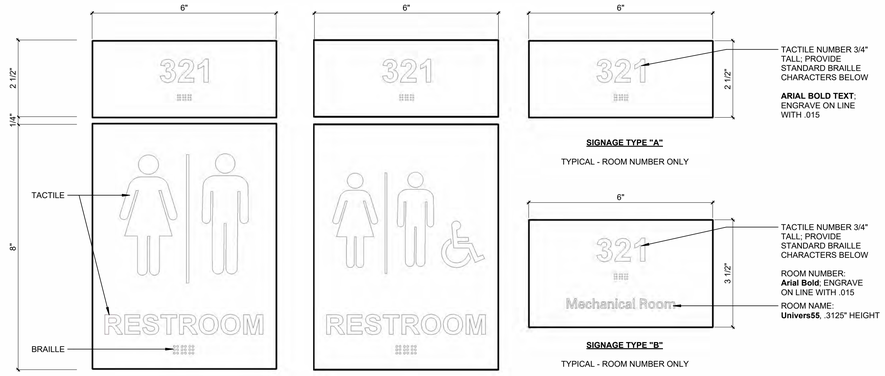
CASEWORK DETAILS

Treanor NO. HE0569.2401.00

SUBSTRATE: ROWMARK
(AVAILABLE AT JOHNSON PLASTICS)

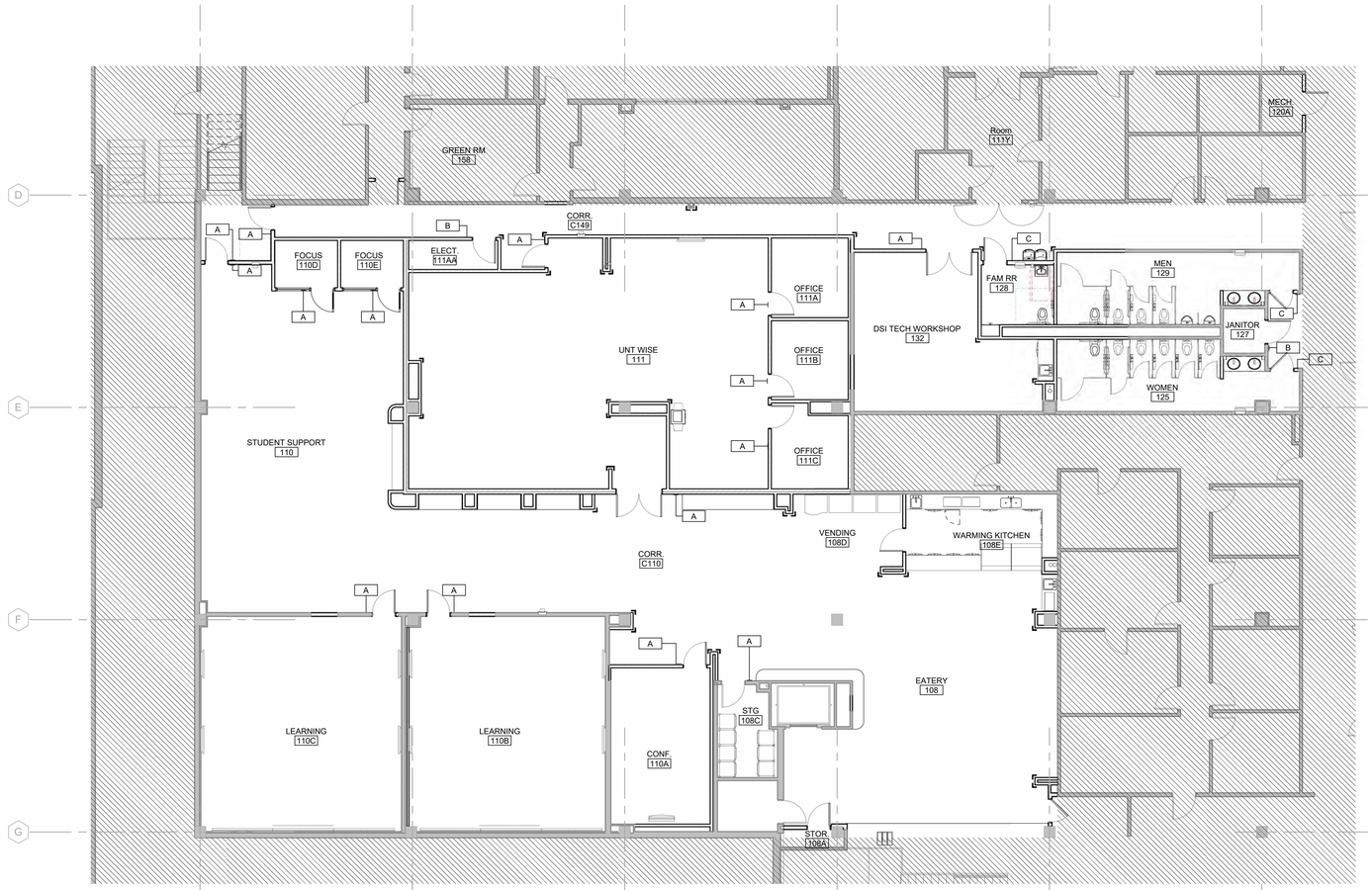
COLOR: SATIN GREY / WHITE, 1/16" THICK (PN 122-32)

TACTILE APPLIQUE COLOR: WHITE 1/32" THICK (PN 311201A)



UNT SIGNAGE, TYPICAL 1

6" = 1'-0"



SHEET FOR REFERENCE ONLY. SIGNAGE WILL BE PROVIDED BY OWNER UNDER FUTURE CONTRACT

FLOOR PLAN - LEVEL 1 - SIGNAGE A1

1/8" = 1'-0"

0 4' 8' 16'

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A801

SIGNAGE FLOOR PLAN

Treanor NO. HE0569.2401.00

S T R U C T U R A L N O T E S

COORDINATION:

A. The contractor shall compare the architectural, structural, mechanical, electrical, plumbing, and other series drawings and report any discrepancies between each set of drawings and within each set of drawings prior to fabrication and installation of any structural members.

B. Only larger sleeve openings and framed openings in structural framing component members are indicated on the structural drawings. However, all sleeves, inserts and openings, including frames and/or sleeves shall be provided for passage, provision and/or incorporation of the work of the contract, including but not limited to mechanical, electrical and plumbing work. This work shall include the coordination of sizes, alignment, dimensions, position, locations, elevations and grades as required to serve the intended purpose. Openings not indicated on the structural drawings, but required as noted above, shall be submitted to the engineer for review.

C. Refer to architectural, mechanical, electrical and plumbing drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.

D. Compatibility of the structure and provisions for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights and reaction with the equipment for which the structure has been designed prior to submission of shop drawings and data for each piece of equipment and for structural components. Differences shall be noted on the submittals.

E. Shop drawings shall be prepared for all structural items and submitted for review by the engineer. Structural drawings shall not be reproduced and used as shop drawings. All items deviating from the structural drawings or from previously submitted shop drawings shall be clouded.

F. The details designated as "typical details" apply generally to the structural drawings in all areas where conditions are similar to those described in the details.

G. All dimensions and conditions of existing construction shall be verified at the job site prior to the preparation of shop drawings. Differences between existing construction and that shown on the structural drawings shall be referred to the architect. Differences shall also be clouded on the shop drawings.

H. All structural elements of the project have been designed by the engineer to resist the required code vertical and lateral forces that could occur in the final completed structure only. It is the responsibility of the contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the lateral-load resisting or stability-providing system is completely installed and the structure is completely tied together. Temporary supports shall not result in the overstress or damage of the elements to be braced nor any elements used as brace supports.

I. The contract structural drawings and specifications represent the finished structure, and except where specifically shown, do not indicate the means or methods of construction. The contractor and their sub-contractors shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, sequences and safety measures including, but not limited to, adherences to all osha guidelines. The engineer shall not have control of, and shall not be responsible for, construction means, methods, techniques, sequences or procedures, for safety precautions and programs in connection with the work, for the acts or omissions of the contractor, subcontractors, or any other person performing any of the work, or for the failure of any of these persons to carry out the work in accordance with the structural contract documents.

J. Where conflict exists among the various parts of the structural contract documents, structural drawings, general notes, and specifications, the strictest requirements, as indicated by the engineer, shall govern.

K. Periodic site observation by field representatives of JQ is solely for the purpose of determining if the work is proceeding in accordance with the structural contract documents. This limited site observation is not intended to be a check of the quality or quantity of the work, but rather a periodic check in an effort to inform the owner against defects and deficiencies in the work of the contractor.

CODES & REFERENCED REPORTS:

A. The General Building Code used as the basis for the structural design is as follows:

1. International Building Code, 2021 Edition
2. International Existing Building Code, 2021 Edition

B. Structural Concrete: Building Code Requirements for Reinforced Concrete, American Concrete Institute, ACI 318, as referenced by the General Building Code.

C. Structural Steel: Manual of Steel Construction, American Institute of Steel Construction Inc., ANSI/AISC 360, as referenced by the General Building Code.

DESIGN LOADS:

A. Dead Loads include the self-weight of the structural elements and the following superimposed loads:
1. Ceiling and Mechanical at floors 5 psf
2. Topping slab, per inch of thickness 12.5 psf

B. Live Loads

OCCUPANCY OR USE	UNIFORM (psf)	CONCENTRATE (lbs.)
1. Typical, U.N.O.	100	300

C. Wind loads
1. Wind lateral load on structural frame is based on ASCE 7-16 using the following:
   a. Ultimate Design Wind Speed Vult 115 mph
   b. Nominal Design Wind Speed Vasd 89 mph
   c. Exposure C
   d. Internal Pressure Coefficient, Gcpi +/-0.18
   e. Risk Category II
2. Components and cladding wind pressures:

Surface	(PSF)	Zone	Area At (ft2)
Exterior walls	+30.5	Interior and edge	10 or less
	-33.1	Interior	10 or less
	-40.7	Edge	10 or less
	+22.9	Interior and edge	500 or greater
	-25.4	Interior	500 or greater
	-25.4	Edge	500 or greater
Roof	-33.4	Interior	10 or less
	-56.0	Edges	10 or less
	-84.2	Corners	10 or less
	-30.5	Interior	100 or greater
	-36.2	Edges	100 or greater
	-36.2	Corners	100 or greater

- Pressures for Tributary Areas in between the listed values may be linearly interpolate
- Negative value signifies pressure acting away from the surface (suction).
- Edge and Corner zone distances shall be determined in accordance with referenced standard.
- Pressures on parapets shall be determined by combining positive and negative wall pressures or wall and roof pressures listed above in accordance with the referenced standard.

* Pressures are for gross uplift conditions. Refer to roof plan(s) for net uplift values for design of joists, joist girders, and bridging.

CAST-IN-PLACE CONCRETE

A. CONCRETE MIX USAGE SCHEDULE:
All concrete shall conform to the requirements as specified in the table below, unless noted otherwise on the Structural Drawings:

Use	Strength psi	Agg. Type	Agg. Size	Max w/c	Exposure Class
Slab	4000	NWT	1"	----	F0

1. "NWT" refers to normal concrete having air dry unit weight of approximately 145 PCF (ASCE C33 aggregate)
2. The w/c ratio shall be selected by the concrete provider to meet the strength requirements and shall not exceed w/c ratio = 0.55. Where the maximum w/c ratio is indicated in the table above, it shall not be exceeded.
3. "Strength" is required compressive cylinder strength at an age of 28 days.
4. Concrete slump for all floor slabs shall be between 4" - 6" slump.
5. Concrete slump shall be selected by concrete provider to meet strength requirements and workability required for the concrete placement. Slump shall not exceed 9" for any mix and meet the requirements of the ACI.

B. A maximum of 20% of the cementitious materials used in mix designs may be replaced with class C or F fly ash.

C. Fly ash shall not be used in architecturally exposed concrete.

D. Provide 6 percent plus or minus 1 1/2 percent of entrained air in concrete permanently exposed to the weather and elsewhere at the contractor's option.

E. Horizontal construction joints in concrete placements shall be permitted only where indicated on the Structural Drawings. All vertical construction joints shall be made in the center of spans in accordance with the typical details. Contractor shall submit proposed locations for construction joints not shown on the Structural Drawings for review by the Architect and Engineer. Additional construction joints may require additional reinforcing as specified by the Engineer which shall be provided by the contractor at no additional cost to the owner.

F. Embedded conduits, pipes, and sleeves shall meet the requirements of ACI 318, Section 26.8, including the following:
1. Conduits and pipes embedded within a slab, wall, or beam (other than those passing through) shall not be larger in outside dimension than 1/3 the overall thickness of the slab, wall or beam in which they are embedded.
2. Conduits, pipes and sleeves shall not be spaced closer than three diameters or widths on center.

G. Void forms: Shall be the product of a reputable manufacturer regularly engaged in commercial production of void forms.
1. Void form composition shall be of corrugated paper material with a moisture resistant exterior and an interior fabrication of a uniform cellular configuration, composed of components constructed of double-faced wax-impregnated (partially only), corrugated fiberboard that is laminated with moisture resistant adhesive.
2. Design and maintain void forms to support all vertical and lateral loads that might be applied during construction until such loads can be supported by the concrete structure.
3. Form material shall be designed to lose its strength under prolonged contact with the moisture which normally accumulates beneath slabs and beams on grade.

H. Submittal: Submit proposed mix designs in accordance with ACI 301, chapter 4.2. Each proposed mix design shall be accompanied by a record of past performance based on at least 30 consecutive strength tests, or by three laboratory trial mixtures with confirmation tests.

I. Concrete sampling for quality assurance: Concrete that is pumped shall be sampled at the point of discharge from the truck.

CONCRETE REINFORCING:

A. Concrete reinforcement for the project shall conform to the following:
1. All reinforcing steel shall be new billet steel in accordance ASTM A615, Grade 60, unless noted otherwise in the Structural Drawings or these notes.

B. Detailing of reinforcing steel shall conform to the American Concrete Institute 315 Detailing Manual and all hooks and bends in reinforcing bars shall conform to ACI detailing standards, unless noted otherwise on the Structural Drawings.

C. In unscheduled grade beams, walls, and slabs, detail reinforcing as follows:
1. Class A lap beam top reinforcing bars at mid span.
2. Class A lap beam bottom reinforcing bars at the supports.
3. Provide Class B lap at other location pending Engineer's approval.
4. Provide standard hooks in top bars at cantilever and discontinuous ends of beams, walls and slabs.
5. Provide corner bars for all horizontal bars at the inside and outside faces of intersecting beams or walls. Corner bars are not required if horizontal bars are hooked.
6. Provide 2-#4 diagonal bars at all slab re-entrant corners placed under the top mat of steel.

D. Welding of reinforcing steel will not be permitted unless specifically shown on the Structural Drawings.

E. Heat shall not be used in the fabrication or installation of reinforcement.

F. Reinforcing steel clear cover shall be as follows:

1. Slab-on-void	3/4" top; 2" bottom

G. Submittal: Submit shop drawings for fabrication, bending, and placement of concrete reinforcement. Comply with ACI 315 "Details and Detailing of Concrete Reinforcement". Do not reproduce the Structural Drawings for use as shop drawings.

POST-INSTALLED ANCHORS AND DOWELS

A. Mechanical Anchors:
Note: Hilti products listed below shall be considered as basis of design, unless noted otherwise. Additional anchors listed below may be utilized if officially requested as a substitution by the Contractor and approved by JQ/IMEG for the specific applications. If a substitution request is submitted, the anchor size and/or spacing is subject to change. Additional cost for design services may apply.
1. Screw Anchors:
   a. In Concrete: Screw Anchors shall have been tested and qualified in accordance with ACI 355.2 and ICC-ES AC 193. Qualifying anchors shall be one of the following:
      1. Kwik HUS-EZ, CRC, or SS (ICC-ES ESR-3027), Hilti Inc.
      2. Titen HD (ICC-ES ESR-2713), Simpson Strong-Tie Co., Inc.
      3. Screw Bolt+ (ICC-ES ESR-3889), DEWALT

B. Adhesive Anchors:
Note: Hilti anchor rods & Hilti acrylic adhesive products listed below shall be considered as basis of design, unless noted otherwise. Additional anchors listed below may be utilized if officially requested as a substitution by the Contractor and approved by JQ/IMEG for the specific applications. If a substitution request is submitted, the anchor size and/or spacing is subject to change. Additional cost for design services may apply.
1. Adhesive Anchors with Threaded Rod:
   a. In Concrete: Adhesive Anchors shall have been tested and qualified in accordance with ACI 355.4 and ICC-ES AC 308. Qualifying anchors shall be one of the following products, unless specifically noted otherwise on structural drawings:
      1. Acrylic: HIT-HY 200 V3 SAFESET (-A/-R) (ICC-ES ESR-4878), Hilti Inc.
      2. Acrylic: AT-3G (ICC-ES ESR-5026), Simpson Strong-Tie Co., Inc.
      3. Acrylic: AC 200+ (ICC-ES ESR-4027), DEWALT
   b. Threaded anchor rod shall be one of the following:
      1. Hilti adhesive: "HAS-V-36" (u.n.o), "HAS-E-55", "HAS-B-105" ASTM F1554 Threaded Rods
      2. Simpson adhesive: Steel meeting the requirements of ASTM F1554, grade 36.
      3. DEWALT adhesive: Steel meeting the requirements of ASTM A1554, grade 36.
      4. Anchor rod shall have a chamfered end on one end to accept a nut and washer; it may have a 45-degree chisel point on the other end.
      5. Nuts and washers shall have a proof load strength at least as strong as anchor rod. Stainless steel nuts and washers shall be provided with stainless steel rods.
2. Adhesive Rebar Dowelling:
   a. Adhesive dowels are not permitted to be substituted for cast-in dowels unless authorized in advance by JQ for each specific location.
   b. Adhesive doweling systems in concrete shall have been tested and qualified in accordance with ACI 355.4 and ICC-ES AC 308. Qualifying anchors shall be one of the following products, unless specifically noted otherwise on structural drawings:
      1. Acrylic: HIT-HY 200 V3 SAFESET (-A/-R) (ICC-ES ESR-4878), Hilti, Inc.
      2. Acrylic: AT-3G (ICC-ES ESR-5026), Simpson Strong-Tie Co., Inc.
      3. Acrylic: AC 200+ (ICC-ES ESR-4027), DEWALT

C. Anchor and Dowel Installation Requirements
1. Anchors and dowels of the size and embedment shown on the Drawings shall be installed in accordance with the Contract Documents, the manufacturer's recommendations, and the manufacturer's current evaluation (ICC-ES or IAPMO-UES) report for the anchor. If conflicts exist between these referenced documents, the most stringent requirements shall govern.
2. The Contractor shall locate all existing reinforcing steel and other embedded items contained in the concrete using non-destructive methods and shall position anchor locations to avoid conflicts with existing embedded items. Anchor or dowel locations can be adjusted by a maximum of 1 1/2" from detailed locations to avoid conflicts, but shall neither change arrangement nor move closer to a concrete edge.
3. Based on field verified locations of reinforcing steel and embedded items, the Contractor shall create templates for each anchor group. Submit template dimensions for review prior to fabrication of connection plates.
4. Holes for anchors and dowels shall be drilled in a continuous operation using the drill-bit type and size recommended by the anchor manufacturer. Holes shall be drilled perpendicular to the concrete surface and shall not be enlarged or redirected at any point along its length. Holes shall be drilled using a hamme drill, coring shall not be allowed, unless noted otherwise.
5. Oil free compressed air shall be used to blow out the holes unless one of the approved systems noted below is utilized. Unapproved shop vacs, squeeze bulbs, etc. shall NOT be used. Refer to manufacturer's information for detailed cleaning instructions.
   a. Hilti SAFESET system with Hilti Hollow Drill Bit and Vacuum System (VC150 or VC300) may be used to eliminate hole cleaning with adhesive anchors.
   b. Simpson Speed Clean DXS system may be used to eliminate manual hole cleaning with adhesive anchors.
   c. DEWALT Dust X system with hollow drill bit may be used to eliminate manual hole cleaning with adhesive anchors.
6. All abandoned holes shall be filled with non-metallic nonshrink grout capable of reaching a design compressive strength of 5,000 psi at 28 days.
7. Holes in connection plates shall be no more than 1/16" larger than the anchor diameter for 3/4" diameter anchors or less and holes in connection plates shall be no more than 1/8" larger than the anchor diameter for 1" diameter anchors or larger; Unless specified otherwise by the manufacturer. If larger holes are required for erection purposes, Contractor shall notify Engineer such that a plate washer size can be provided.
8. At the time of anchor installation, concrete shall have a minimum compressive strength of 2500 psi and an age of 21 days.
9. The following parameters were used in the determination of the bond stress for adhesive anchors. Contractor shall notify JQi/IMEG if any of these parameters are not met:
   a. Drilled hole condition: Dry
   b. No diamond core drilling
   c. Substrate temperature range at the time of installation and conditioned per manufacturer requirements:

Concrete Anchors	Minimum (°F)	Maximum (°F)
Hilti HIT RE-500V3	23	104
HIT-HY 200 V3 (-A/-R)	14	104
Simpson SET-3G	40	100
Simpson AT-3g	23	104
DEWALT Pure 110+	41	104
DEWALT AC 200+	23	104

Masonry Anchors	Minimum (°F)	Maximum (°F)
Hilti HY-270	23	70
Simpson SET-3g	40	100
DEWALT AC 100+	14	70

   d. Maximum short term substrate temperature after installation = 130°
   e. Maximum long term substrate temperature after installation = 110°F

D. All post-installed anchors shall be installed by personnel trained by a manufacturer's field representative for each product to be used. A record of training shall be kept on site and be made available to the EOR as requested.

E. For adhesive anchors installed in a horizontal orientation subject to sustained tension loading and all upwardly inclined (including soffit installations) orientation:
1. Per ACI 318-14 (17.8.2.2): Installation shall be performed by personnel certified by ACI/CRSI "Adhesive Anchor Installer Certification Program." Certification shall include written and performance tests.

STRUCTURAL STEEL

A. Material
1. "All hot rolled steel members shall be new and conform to ASTM specification A6."
2. ASTM Specification and Grade - clearly mark the grade on each member.
3. Unless noted otherwise on the Structural Drawings, structural steel members shall be:
   a. Channels shall conform to ASTM A36.
   b. Angles shall conform to ASTM A36.
   c. Square or rectangular hollow structural shape members shall conform to ASTM A500, Grade C, Fy = 50 ksi.
   d. Structural steel plate shall conform to ASTM A36.
   e. Any other steel shall conform to ASTM A36.

B. Fabrication
1. Splicing of structural steel members is prohibited without prior approval of the Engineer as to location and type of splice to be made. Any member having splice not shown and detailed on shop drawings will be rejected.
2. Dimensional tolerances of fabricated structural steel shall conform to Section 6.4 of the AISC Code of Standard Practice unless noted otherwise on the Structural Drawings.
3. Shop painting: Paint structural steel with one coat of manufacturer's standard red oxide primer applied at a rate to provide a uniform dry film thickness of 2.5 mils.

C. Erection
1. Erection tolerances of anchor bolts, embedded items, and all structural steel unless specified otherwise on the Structural Drawings shall conform to the AISC Code of Standard Practice.
2. Field cutting of structural steel or any field modifications to structural steel shall not be made without prior approval of the Engineer.
3. Contractor shall protect any unprimed structural steel from detrimental effects of corrosion, as required, until the steel is enclosed and protected by the new construction.

A. Contractor shall coordinate structural steel fireproofing requirements. All interior structural steel, including steel joists, scheduled or indicated to receive spray applied fireproofing shall be delivered to the project site unprimed. Steel exposed to corrosive conditions after installation shall be primed with a protective coating which does not diminish the bond between the spray applied fireproofing, and the steel substrate. Any primer, and/or coating applied to structural steel shall be approved for use in the applicable U.L. Fire Resistance Assembly used on the project.

B. Submittal: Provide drawings showing details for fabrication and shop assembly of members, erection plans and details. Include details of connections, camber, weld profiles and sizes and spacing. Shop and erection drawings shall not be made using reproductions of the Structural Drawings.

STRUCTURAL STEEL CONNECTIONS

A. Welded Connections
1. All welding shall conform to ANSI/AWS D1.1, latest edition.
2. Minimum fillet weld size to be 3/16 inch or minimum size required by AISC, whichever is larger.

B. Any structural steel connection not specifically detailed on the Structural Drawings shall be designed and detailed by the Contractor's professional engineer licensed in the state having jurisdiction at the project site (delegated designer). Sealed calculations for all connections designed by the Contractor's delegated designer shall be submitted for the Architect's files.

C. For connections not specifically addressed by these notes or the Structural Drawings, provide fillet welds at all contact surfaces sufficient to develop the tensile strength of the smaller member at the joint.

DESIGN BY OTHERS

A. In accordance with the Specifications the items listed below are not included in the Contract Documents. Design of these elements shall be the responsibility of the Contractor, and shall be designed and sealed by a registered professional engineer licensed in the state having jurisdiction at the project site.
1. Cold Formed Metal Framing

B. Design of the items listed above shall be in accordance with the General Building Code, and shall include all attachments to the structure.

SYMBOLS LEGEND	
SYMBOL	DESCRIPTION
#	EXISTING COLUMN GRID
	EXISTING CONSTRUCTION
	DEMO

ABV.	ABOVE	L.	LENGTH
A.F.F.	ABOVE FINISHED FLOOR	L.W.	LIGHTWEIGHT
ADDN'L.	ADDITIONAL	L.W.C.	LIGHTWEIGHT CONCRETE
ADH.	ADHESIVE	L.L.	LIVE LOAD
ADJ.	ADJACENT	LOC.	LOCATION
AGGR.	AGGREGATE	LLH	LONG LEG HORIZONTAL
A/C	AIR CONDITIONER	LLV	LONG LEG VERTICAL
AHU	AIR HANDLING UNIT	LSH	LONG SIDE HORIZONTAL
ALT.	ALTERNATE	LSV	LONG SIDE VERTICAL
ALUM.	ALUMINUM	LSL	LONG SLOTTED HOLE
A.C.I.	AMERICAN CONCRETE INSTITUTE	LONG	LONGITUDINAL
A.I.S.C.	AMERICAN INSTITUE OF STEEL CONSTRUCTION	L.P.	LOW POINT
A.B.	ANCHOR BOLT		
&	AND		
L	ANGLE	MFR.	MANUFACTURE(R)
APPD.	APPROVED	MAS.	MASONRY
APPROX.	APPROXIMATE	MAT.	MATERIAL
ARCH.	ARCHITECT	MAX.	MAXIMUM
ARCHTL	ARCHITECTURAL	MECH.	MECHANICAL
A.E.C.	ARCHITECTURALLY EXPOSED CONCRETE	MEP	MECHANICAL, ELECTRICAL, PLUMBING
A.E.S.S.	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	MTL.	METAL
@	AT	MEZZ.	MEZZANINE
		MID.	MIDDLE
B.F.	BACK FACE	MIN.	MINIMUM
B. TO B.	BACK TO BACK	MISC.	MISCELLANEOUS
BSMT.	BASEMENT	M	MOMENT
BM.	BEAM	M.C.	MOMENT CONNECTION(S)
BRG.	BEARING		
B.F.F.	BELOW FINISH FLOOR	N.F.	NEAR FACE
BTWN.	BETWEEN	NOM.	NOMINAL
BEV('D)	BEVEL(ED)	N.S.	NON-SHRINK
BLK.	BLOCK	N/A	NOT APPLICABLE
B.L.	BLOCK LINTEL	N.I.C.	NOT IN CONTRACT
BLKG.	BLOCKING	N.T.S.	NOT TO SCALE
BOT.	BOTTOM	NO. OR #	NUMBER
B.O.	BOTTOM OF		
B.O.S.	BOTTOM OF STEEL	O.C.	ON CENTER
BRKT.	BRACKET	OPNG(S)	OPENING(S)
BR.L.	BRICKLEDGE	OPP.	OPPOSITE
BRDG.	BRIDGING	O.H.	OPPOSITE HAND
BLDG.	BUILDING	O.D.	OUTSIDE DIAMATER
		O.F.	OUTSIDE FACE
C	CAMBER	OVS	OVER-SIZED HOLE
C.I.P.	CAST-IN-PLACE		
CLG.	CELING	P	PAN
C.L.	CENTER LINE	P.J.	PANEL JOINT
C.G.	CENTER OF GRAVITY	PAR.	PARALLEL
C.G.S.	CENTER OF GRAVITY OR STRAND	PERP.	PERPENDICULAR
CTR'D.	CENTERED	PC.	PIECE
CLR.	CLEAR OR CLEARANCE	PL.	PLATE
CFS	COLD FORMED STEEL	PT.	POINT
COL.	COLUMN	P-T	POST-TENSION(ED)
C OR COMP.	COMPRESSION	# OR LBS.	POUNDS
CONC.	CONCRETE	PCF	POUNDS PER CUBIC FOOT
CMU	CONCRETE MASONRY UNIT	PLF	POUNDS PER LINEAR FOOT
CONN(S)	CONNECTION(S)	PSF	POUNDS PER SQUARE FOOT
CONST.	CONSTRUCTION	PSI	POUNDS PER SQUARE INCH
CONST. JT.	CONSTRUCTION JOINT	P.E.M.B.	PRE-ENGINEERED METAL BUILDING
CONT.	CONTINUOUS	P/C	PRECAST CONCRETE
CONTR.	CONTRACTOR	PREFAB.	PREFABRICATED
C.J.	CONTROL JOINT	PRELIM.	PRELIMINARY
COORD.	COORDINATE	P.T.	PRESSURE TREATED
COV. PL.	COVER PLATE	PROJ.	PROJECTION
		QTY.	QUANTITY
D.L.	DEAD LOAD		
D.B.A.	DEFORMED BAR ANCHOR	R	RADIUS
D.	DEPTH	REINF.	REINFORCE(ING)(ED)(MENT)
DTL.	DETAIL	RCP	REINFORCED CONCRETE PIPE
DIAG.	DIAGONAL	REM.	REMAINDER
DIA OR Ø	DIAMETER	REQ.	REQUIRE
DIM(S).	DIMENSION(S)	REQ'D.	REQUIRED
DBL.	DOUBLE	RET. SYS.	RETENTION SYSTEM
XX-STR	DOUBLE EXTRA STRONG	RIS.	RISER
DVTL.	DOVETAIL	RF.	ROOF
DWL(S).	DOWEL(S)	R.D.	ROOF DRAIN
DN.	DOWN	R.T.U.	ROOF TOP UNIT
DS.	DOWNSPOUT	RM.	ROOM
DWG(S).	DRAWING(S)	R.O.	ROUGH OPENING
		RND.	ROUND
EA.	EACH		
E.F.	EACH FACE	SCHED.	SCHEDULE(D)
E.W.	EACH WAY	SECT.	SECTION
E.O.D.	EDGE OF DECK	V	SHEAR
ELEC.	ELECTRICAL	SHT.	SHEET
EL.	ELEVATION	SSL	SHORT SLOTTED HOLE
ELEV.	ELEVATOR	SW	SIDEWALK
EMBED.	EMBEDMENT	SIM.	SIMILAR
ENGR.	ENGINEER	S.O.G.	SLAB ON GRADE
EQ.	EQUAL	SPA.	SPACE
EQUIP.	EQUIPMENT	SPEC(S)	SPECIFICATION(S)
EF	EXHAUST FAN	SPEC'D	SPECIFIED
(E)	EXIST.	SQ.	SQUARE
EXIST.	EXISTING	S.F.	SQUARE FOOT
EXP.	EXPANSION	STAGG.	STAGGERED
E.J.	EXPANSION JOINT	S.S.	STAINLESS STEEL
EXT.	EXTERIOR	STD.	STANDARD
X-STR	EXTRA STRONG	STL.	STEEL
		S.J.I.	STEEL JOIST INSTITUE
FABR.	FABRICATOR	STIFF	STIFFENER
F. TO F.	FACE TO FACE	STIRR.	STIRRUPS
F.S.	FAR SIDE	STR.	STRAIGHT
F.V.	FIELD VERIFY	STRUCT'L	STRUCTURAL
FIN(D)	FINISH(ED)	STRUCT.	STRUCTURE
FIN. FL.	FINISHED FLOOR	SUBCONTR.	SUBCONTRACTOR
FP.	FIREPROOF(ING)	SUPT(S).	SUPPORT(S)
FLG.	FLANGE		
FL.	FLOOR	TEMP.	TEMPERATURE
F.D.	FLOOR DRAIN	T	TENSION
FT.	FOOT (OR) FEET	TERR.	TERRAZZO
FDN.	FOUNDATION	THK.	THICK
FRMG	FRAMING	THRD.	THREAD(ED)
F.P.	FULL PENETRATION	T&G	TONGUE AND GROOVE
		T&B	TOP AND BOTTOM
GA.	GAGE OR GAUGE	T.O.	TOP OF
GALV.	GALVANIZED	T.O.B.	TOP OF BEAM
G.C.	GENERAL CONTRACTOR	T.O.C.	TOP OF CONCRETE
GR.	GRADE	T.O.F.	TOP OF FOOTING
GR. BM.	GRADE BEAM	T.O.J.	TOP OF JOIST
		T.O.P.	TOP OF PIER
H.S.A.	HEADED STUD ANCHOR	T.O.P.C.	TOP OF PIER (PILE) CAP
HT.	HEIGHT	T.O.S.	TOP OF STEEL
H.P.	HIGH POINT	T.O.W.	TOP OF WALL
HSS	HOLLOW STRUCTURAL SECTION	TRANSV.	TRANSVERSE
HK.	HOOK	TR.	TREAD
HORIZ.	HORIZONTAL	TYP.	TYPICAL
H.B.	HORIZONTAL BRACE		
H.D.	HOT-DIP	U.N.O.	UNLESS NOTED OTHERWISE
IN.	INCH	VERT.	VERTICAL
INFO.	INFORMATION	V.B.	VERTICAL BRACE
I.D.	INSIDE DIAMETER		
I.F.	INSIDE FACE	WPFG.	WATERPROOFING
INT.	INTERIOR	WS.	WATERSTOP
INTERM.	INTERMEDIATE	WT.	WEIGHT
		W.W.M.	WELDED WIRE MESH
JT.	JOINT	W.	WIDTH
J.G.	JOIST GIRDER	W.L.	WIND LOAD
JST(S)	JOIST(S)	WDW.	WINDOW
		W/	WITH
KLF	KIP PER LINEAR FOOT	W/O	WITHOUT
KSF	KIP PER SQUARE FOOT	W.D.	WOOD
KSI	KIP PER SQUARE INCH	W.P.	WORK POINT
K	KIPS (1000 LBS)		

01/16/2025

shaping the built environment
JQ INFRASTRUCTURE, LLC
303 WEST 7TH STREET, SUITE 400 FORT WORTH, TEXAS 76102
817.546.7200 JQENG.COM
PROJECT NO: 3240126 TBPE FIRM F-7986

STATE OF TEXAS — DAVID A. WALKER — 132006 — LICENSED PROFESSIONAL ENGINEER

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STRUCTURAL NOTES

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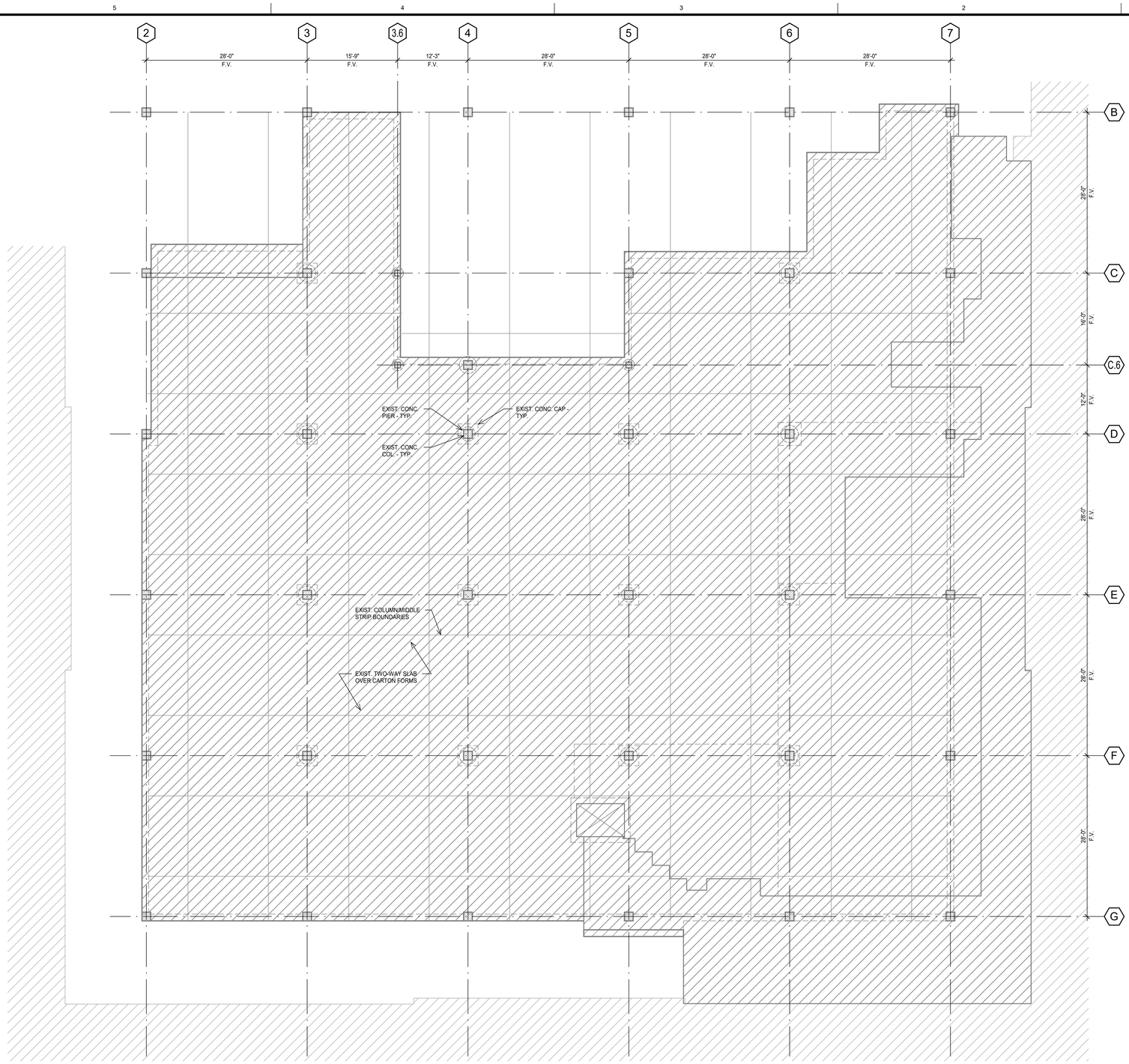

north

1 FOUNDATION PLAN

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

PLAN NOTES:

1. FINISH FLOOR ELEVATION = 100'-0", UNLESS NOTED OTHERWISE.
2. TOP OF CONCRETE ELEVATION (T.O.C. EL.) = FINISH FLOOR. UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
3. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
4. THE GENERAL CONTRACTOR SHALL EXERCISE CARE NOT TO OVERCUT OPENINGS OR DAMAGE EXISTING CONSTRUCTION TO REMAIN. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO STARTING DEMOLITION WORK.
5. THE CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE EXISTING BUILDING ELEMENTS WHICH ARE TO REMAIN. FLOOR AND WALL DEMOLITION SHALL NOT BE ALLOWED TO FALL ON FLOOR STRUCTURE BELOW. CONTRACTOR SHALL EXERCISE CARE TO LIMIT VIBRATIONS TO THE EXISTING STRUCTURE AND FACADE.
6. ALL DIMENSIONS SHOWN ON PLAN ARE FOR REFERENCE ONLY AND SHALL BE FIELD VERIFIED.
7. CONTRACTOR TO COORDINATE NEW CORES WITH DETAILS 2/S3.01 AND 3/S3.01. CONTACT ARCHITECT AND ENGINEER OF ANY CONFLICTS.

SHEET INDEX:

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FOUNDATION PLAN

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PROJECT NO: 3240126

DAVID A. WALKER
132006
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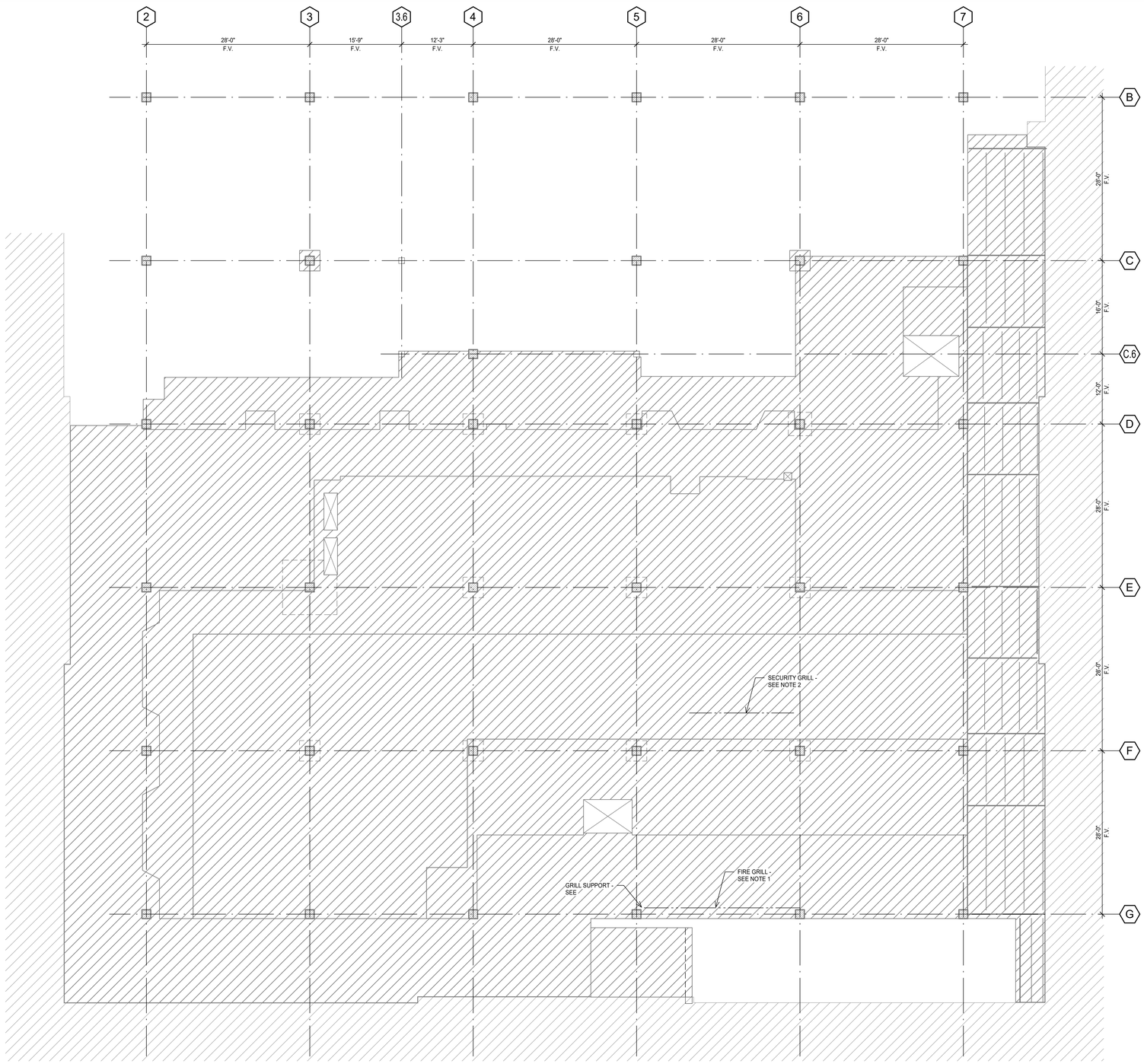

north

1 SECOND FLOOR FRAMING PLAN

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

PLAN NOTES:

1. FIRE GRILL ATTACHED TO EXISTING STRUCTURE BY MANUFACTURER. SEE DETAIL FOR SUPPORT DETAIL TO EXISTING CONCRETE COLUMN. SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION.
2. SECURITY GRILL SUPPORT TO BE PROVIDED BY MANUFACTURER. SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION.

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SECOND FLOOR FRAMING PLAN

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Autodesk Docs://HE0569.2401.00 UNT Chilton Hall Level 1 Renovation/3240126-STRUCT-R24.rvt

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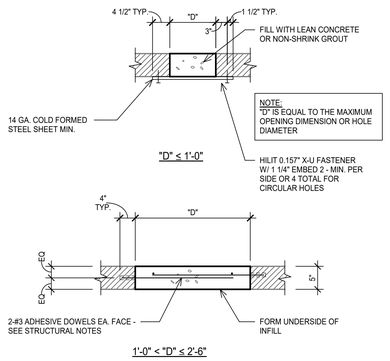
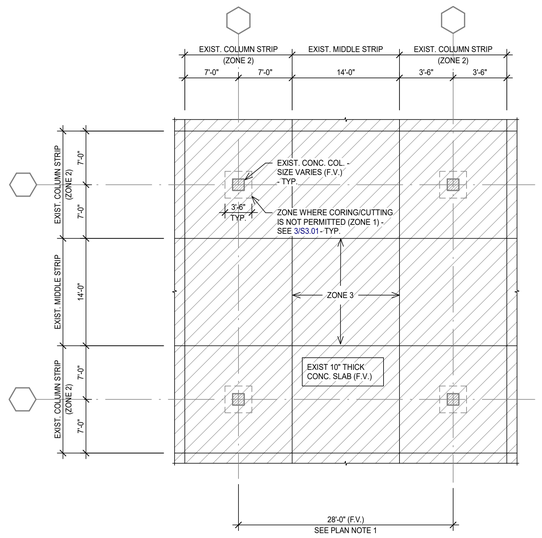


1 TYPICAL SLAB INFILL DETAIL - SMALL OPENINGS
SCALE: 3/4" = 1'-0"



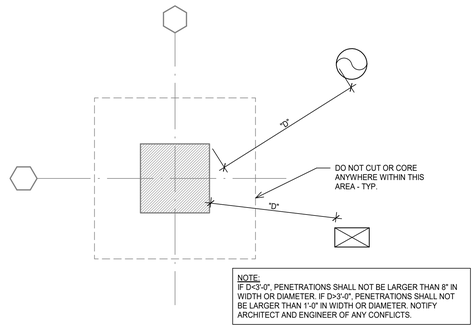
PLAN NOTES:
1. DIMENSIONS SHOWN ARE FOR TYPICAL BAY CONDITIONS. BAY SIZES MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS SHALL BE FIELD VERIFIED.
2. PENETRATIONS THROUGH THE EXISTING STRUCTURE SHALL BE LAYED OUT PRIOR TO CUTTING/CORING. EXISTING REINFORCING STEEL IN THE AREA OF CUTTING/CORING SHALL BE LOCATED BY NON-DESTRUCTIVE MEANS (GPR, FERROSCAN, X-RAY, ETC.) TO DETERMINE IF CONFLICTS WITH EXISTING REINFORCING STEEL OCCUR.
3. LIMITATIONS ON CUTTING AND CORING THROUGH THE SLAB SHALL BE AS FOLLOWS:

   -ZONE 1: PENETRATIONS THROUGH THIS ZONE ARE NOT PERMITTED UNLESS DETAILED ELSEWHERE IN THE STRUCTURAL CONSTRUCTION DOCUMENTS. SEE 3/S3.01 FOR ADDITIONAL INFORMATION

   -ZONE 2: CORES SHALL NOT EXCEED 6" IN DIAMETER AND SHALL BE SPACED OUT TO PROVIDE 2" MIN. CLEAR BETWEEN CORES. THE CORES SHALL BE ADJUSTED TO PROVIDE 1" MIN. CLEAR FROM EXIST. REINF. STEEL. A MAX. OF TWO (2) BARS IN EACH DIRECTION MAY BE CUT.

   -ZONE 3: CORES SHALL NOT EXCEED 6" IN DIAMETER AND SHALL BE SPACED OUT TO PROVIDE 2" MIN. CLEAR BETWEEN CORES. THE CORES SHALL BE ADJUSTED TO PROVIDE 1" MIN. CLEAR FROM EXIST. REINF. STEEL. SLAB OPENINGS UP TO 1'-6" WIDE IN EITHER DIRECTION ARE PERMITTED. SEE 1/S3.03 FOR INFORMATION ON NEW SLAB OPENINGS. A MAX. OF THREE (3) BARS IN EACH DIRECTION MAY BE CUT.
4. ANY SLAB PENETRATIONS THAT DO NOT MEET THE GUIDELINES ABOVE SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL. IF ADDITIONAL REINFORCING IS CUT IN EXCESS OF THE LIMITS ABOVE, THE USE OF EXTERNALLY BONDED FIBER REINFORCED POLYMER (FRP) MAY REQUIRED TO SUPPLEMENT THE DAMAGED REINFORCING. THE G.C. SHALL ENGAGE AN FRP MFR. FOR THE DESIGN OF THE FRP.
5. CUTTING OR CORING THROUGH EXISTING CONCRETE BEAMS OR COLUMNS IS NOT PERMITTED.
6. NOTIFY THE ARCHITECT IF A LARGE DEGREE (3 OR MORE) OF EXISTING SLAB PENETRATIONS WITH DAMAGED REINFORCING ARE ENCOUNTERED ONCE THE BUILDING FINISHES ARE REMOVED. THE LIMITATIONS NOTED ABOVE MAY NEED TO BE ADJUSTED OR ADDITIONAL EVALUATION OF THE FLOOR STRUCTURE MAY BE REQUIRED.

2 TYPICAL EXISTING FLOOR PENETRATION DETAIL
NO SCALE



3 TYPICAL LIMITATION ON CUTTING AND CORING DETAIL
NO SCALE

4 FIRE GRILL SUPPORT CONNECTION DETAIL
NO SCALE

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DETAILS

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STATE OF TEXAS
DAVID A. WALKER
132006
LICENSED
PROFESSIONAL ENGINEER

PROJECT NO: 3240126

FIRE ALARM SYSTEMS:

THE EXISTING NOTIFIER FIRE ALARM SYSTEM WILL BE EXTENDED TO SERVE ALL AREAS OF THE RENOVATION. ADDITIONAL POWER SUPPLIES, BATTERIES AND VOICE AMPLIFIERS WILL BE INSTALLED AS REQUIRED TO SUPPORT NEW DEVICES AS REQUIRED. THE MODIFIED SYSTEM SHALL BE REPROGRAMMED TO INCORPORATE THE NEW DEVICES AND TESTED TO DEMONSTRATE PROPER OPERATION.

ALL FIRE ALARM DEVICES WITHIN THE RENOVATED AREAS SHALL BE NEW CEILING MOUNTED DEVICES.

FOR ANY FIRE ALARM DEVICES THAT ARE REMOVED FROM THEIR CURRENT LOCATION, THESE FIRE ALARM DEVICES SHALL NOT BE RE-INSTALLED.

FIRE ALARM SYMBOL LIST

SYMBOL	DESCRIPTION
F	FIRE ALARM PULL STATION
F◁	FIRE ALARM STROBE/SPEAKER UNIT
F◁	FIRE ALARM STROBE ONLY
S	FIRE ALARM SPEAKER ONLY
SD	CEILING MTD SMOKE DETECTOR
H	CEILING MOUNTED HEAT DETECTOR
E	INDICATES EXISTING DEVICE OR EQUIPMENT TO REMAIN
ER	INDICATES EXISTING DEVICE OR EQUIPMENT TO BE REMOVED.

LEVEL 1 FLOOR PLAN - FIRE ALARM 1

1/8" = 1'-0"

0 4' 8' 16'

SHEET NOTES:

1. FIRE ALARM DEVICES INDICATED ON PLANS ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR IS RESPONSIBLE FOR DESIGNING, FURNISHING, AND INSTALLING THE SYSTEM TO COMPLY WITH ALL STATE, ADA, TAS, NEC AND NFPA CODES AND REQUIREMENTS IN ADDITION TO THOSE OF THE CITY OF DENTON.
2. : AREAS NOT IN SCOPE OF WORK.

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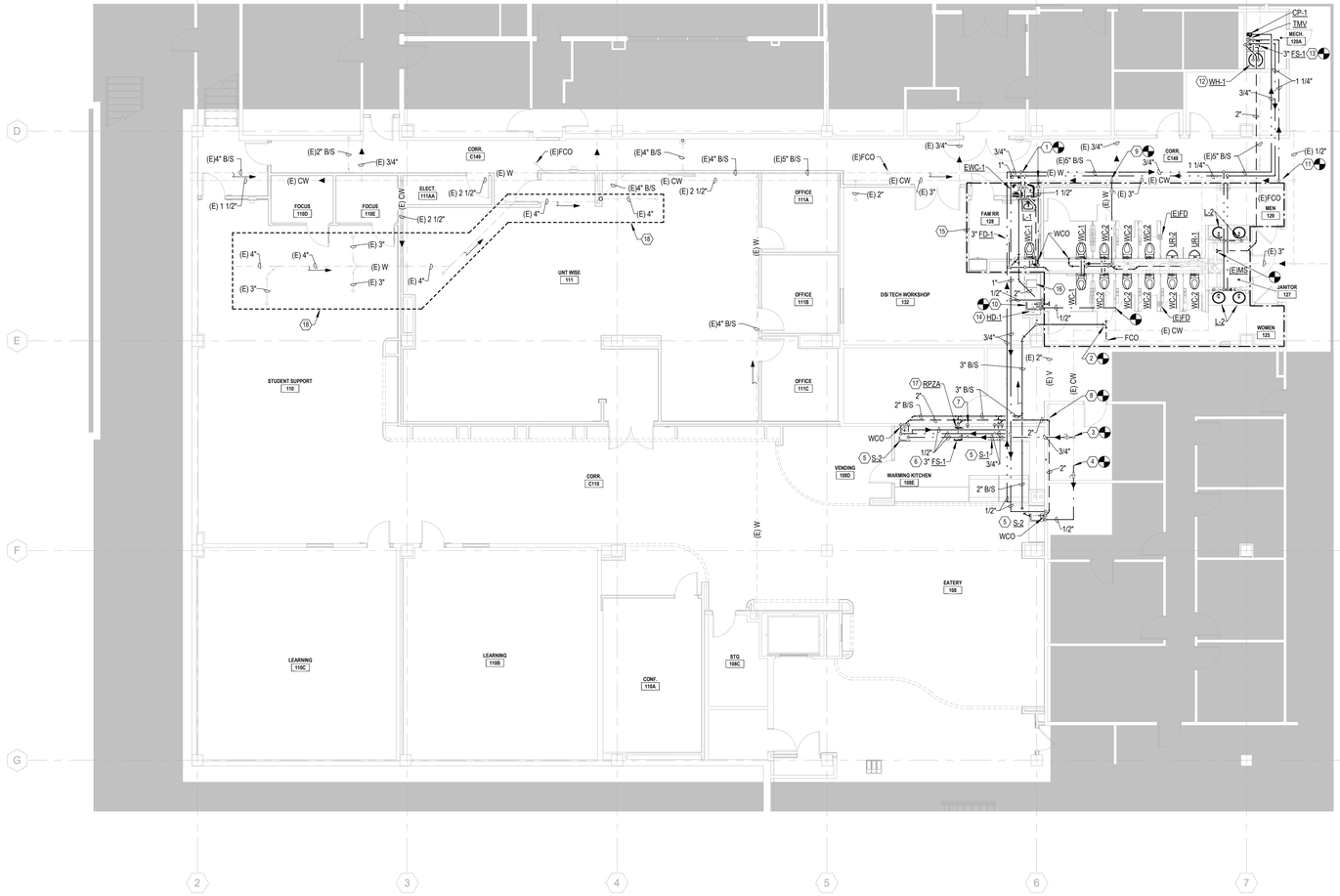
LEVEL 1 FLOOR PLAN - FIRE ALARM

Treanor NO. HE0569.2401.00

PLUMBING LEGEND

	COLD WATER (CW)	■	FLOOR DRAIN
	HOT WATER (110°F HW)		GAUGE
	HOT WATER RETURN		THERMOMETER
	WASTE (SANITARY SEWER)	LF	PIPE WELL
	VENT		THERMOMETER WELL
SD	STORM DRAIN	PMV	POINT-OF-USE MIXING VALVE
OD	OVER FLOW DRAIN	WHA	WATER HAMMER ARRESTOR
	GATE VALVE	CO	CLEANOUT
	BALL VALVE	FCO	FLOOR CLEANOUT
	CHECK VALVE	WCO	WALL CLEANOUT
	BALANCE VALVE	OD	OVERFLOW DRAIN
	MOTORIZED SHUTOFF VALVE	RD	ROOF DRAIN
	MODULATING CONTROL VALVE	W	WASTE
	THREE-WAY CONTROL VALVE	(E)	EXISTING TO REMAIN
	BUTTERFLY VALVE	AFF	ABOVE FINISHED FLOOR
	STRAINER	AFG	ABOVE FINISHED GRADE
	PLUG VALVE	B/S	BELOW SLAB
	GAS PRESSURE REGULATOR	I.E.	INVERT ELEVATION
	UNION	POC	POINT OF CONNECTION
	CAP END OF LINE	NIC	NOT IN CONTACT
	RISER DOWN		
	RISER UP		
	PLUG CLEANOUT		
	DIRECTION OF FLOW		
	DIRECTION OF PITCH (DOWN)		
	EXISTING TO REMAIN		
	ITEM TO BE REMOVED		
	CONNECT TO EXISTING		



LEVEL 1 FLOOR PLAN - PLUMBING 1

1/8" = 1'-0"

0 4' 8' 16'

NOTES BY SYMBOL: "⑧"

1. CONNECT 4" W TO (E) 5" W MAIN AND ROUTE AS INDICATED BELOW SLAB. CONNECT 1-1/2" CW TO (E) 3" CW MAIN AND ROUTE ABOVE CEILING AS INDICATED.
2. CONNECT 3" W TO (E) 4" W MAIN AND ROUTE AS INDICATED BELOW SLAB TO NEW PLUMBING CHASE.
3. CONNECT 3/4" CW TO (E) 3/4" CW AND ROUTE ABOVE CEILING AS INDICATED.
4. CONNECT 1/2" CW TO (E) 3/4" CW AND ROUTE ABOVE CEILING AS INDICATED.
5. 1/2" CW AND 1/2" HW DOWN IN WALL TO SINK. 2" W DOWN, 2" V UP IN WALL AND ROUTE ABOVE CEILING AS INDICATED.
6. 3" W DOWN, 2" V UP IN WALL AND ROUTE ABOVE CEILING AS INDICATED. ROUTE FULL SIZE DRAIN FROM UNDERCOUNTER ICE MAKER AND DISCHARGE INDIRECT WITH 1" AIR GAP INTO FS-1.
7. ROUTE 1/2" CW DOWN IN WALL AND CONNECT TO RPZA BELOW COUNTER. ROUTE FULL SIZE LINE FROM ICE MACHINE TO RPZA.
8. CONNECT 2" V TO (E) 2" V AND ROUTE ABOVE CEILING AS INDICATED.
9. CONNECT 2" CW TO (E) 3" CW MAIN AND ROUTE ABOVE CEILING AS INDICATED.
10. REINSTALL (E) RELOCATED SINK IN NEW CASEWORK. CONNECT 1/2" CW TO (E) 1/2" CW AND ROUTE DOWN IN WALL. 2" W DOWN, 2" V UP IN WALL AND CONNECT TO (E) 2" V ABOVE CEILING.
11. CONNECT 1-1/4" CW TO (E) 3" CW MAIN AND ROUTE ABOVE CEILING AS INDICATED.
12. INSTALL NEW TANK TYPE WATER HEATER ON 16" TALL STEEL WATER HEATER STAND. 1-1/4" CW DOWN TO WH-1. 1-1/4" HW (140°) FROM WH-1 AND ROUTE AS INDICATED TO THERMOSTATIC MIXING VALVE (TMV). 1-1/4" CW TO TMV AND 1-1/4" HW (120°) UP FROM TMV TO ABOVE CEILING AND ROUTE AS INDICATED. TMV SHALL BE EQUAL TO LEONARD MODEL #TM-26-LF. ROUTE FULL SIZE T&P LINES FROM WATER HEATER AND DISCHARGE INDIRECTLY INTO FLOOR SINK. REFER TO ELECTRIC WATER HEATER DETAIL 1/P301 FOR MORE INFORMATION.
13. 3" W DOWN AND CONNECT TO (E) 5" W BELOW SLAB. 2" V UP IN WALL, ROUTE AS INDICATED, AND CONNECT TO (E) 2" V ABOVE CEILING.
14. INSTALL HD-1 IN NEW CASEWORK, BELOW RELOCATED (E) SINK. ROUTE 2" W DOWN AND 2" V UP IN WALL TO AT LEAST 6 INCHES ABOVE THE FLOOD RIM OF THE SINK. CONNECT 2" V IN WALL TO 2" V FROM (E) RELOCATED SINK.
15. REFER TO WASTE AND VENT RISER DIAGRAM 1/P201 AND DOMESTIC WATER RISER DIAGRAM 2/P201 FOR ADDITIONAL SIZES AND ROUTING THIS AREA.
16. (E) RELOCATED SPACE DEHUMIDIFIER, REFER TO M101 FOR ADDITIONAL INFORMATION.
17. PROVIDE AND INSTALL 1/2" RPZA BACKFLOW PREVENTER BELOW COUNTERTOP. MAXIMUM OF 24" AFF. BACKFLOW PREVENTER SHALL BE EQUAL TO WATTS #LF009-QT-S WITH AIR GAP. ROUTE FULL-SIZE DRAIN FROM AIR GAP AND DISCHARGE INDIRECTLY WITH 1" AIR GAP INTO FS-1. REFER TO PLUMBING GENERAL NOTES #17 AND #18, SHEET P301, FOR ADDITIONAL INFORMATION.
18. (E) WASTE AND VENT PIPING TO REMAIN. CONTRACTOR SHALL FIELD VERIFY EXTENTS OF (E) PVC PIPING, LOCATED WITHIN THE RETURN AIR PLENUM SPACE, AND WRAP ALL (E) PVC PIPING WITH UNIFRAX FYREWRAP 0.5 PLENUM INSULATION.

SHEET NOTES:

1. THIS BUILDING WILL BE OCCUPIED DURING THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR SHALL CAREFULLY COORDINATE AND SCHEDULE ANY REQUIRED SHUTDOWNS WITH THE UNIVERSITY TO MINIMIZE DISRUPTIONS TO BUILDING OCCUPANTS.
2. : AREAS NOT IN SCOPE OF WORK.

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LEVEL 1 FLOOR PLAN - PLUMBING

Treanor NO. HE0569.2401.00

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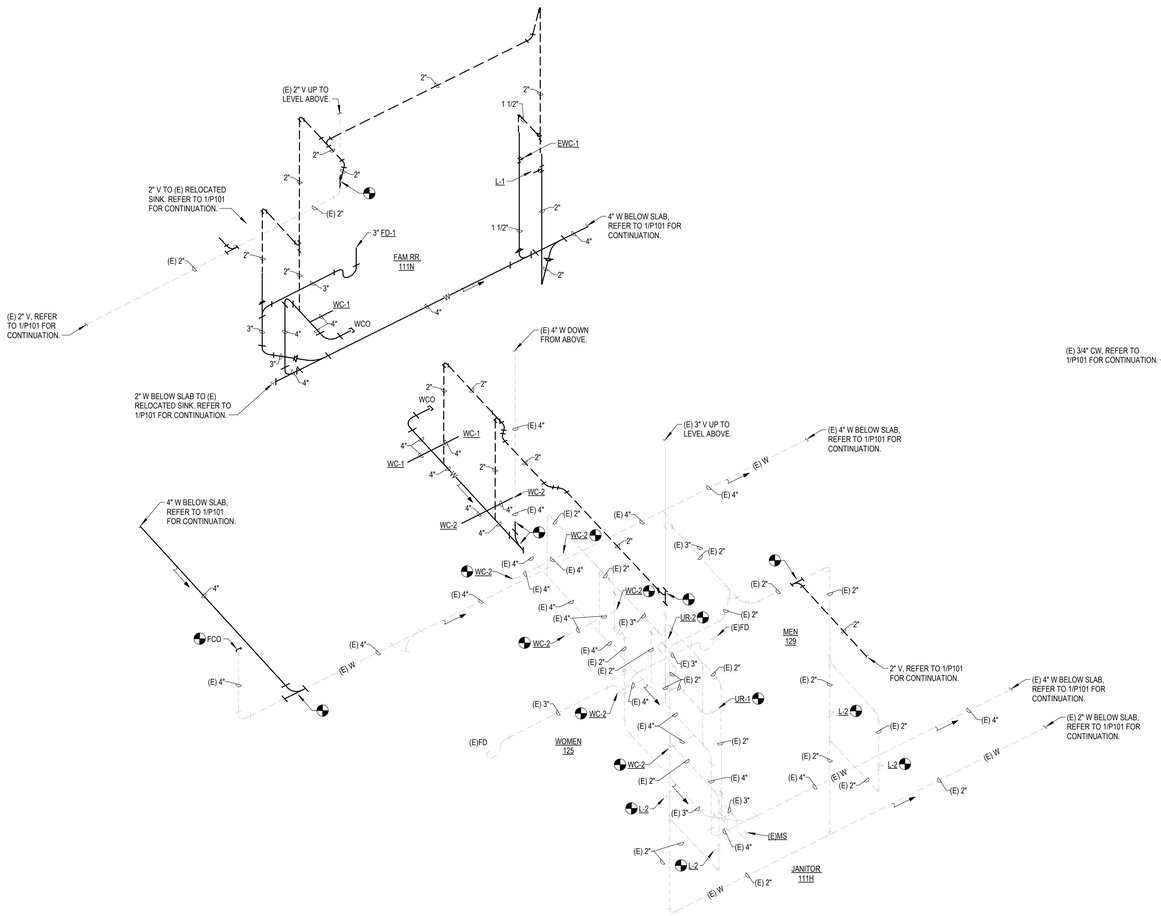
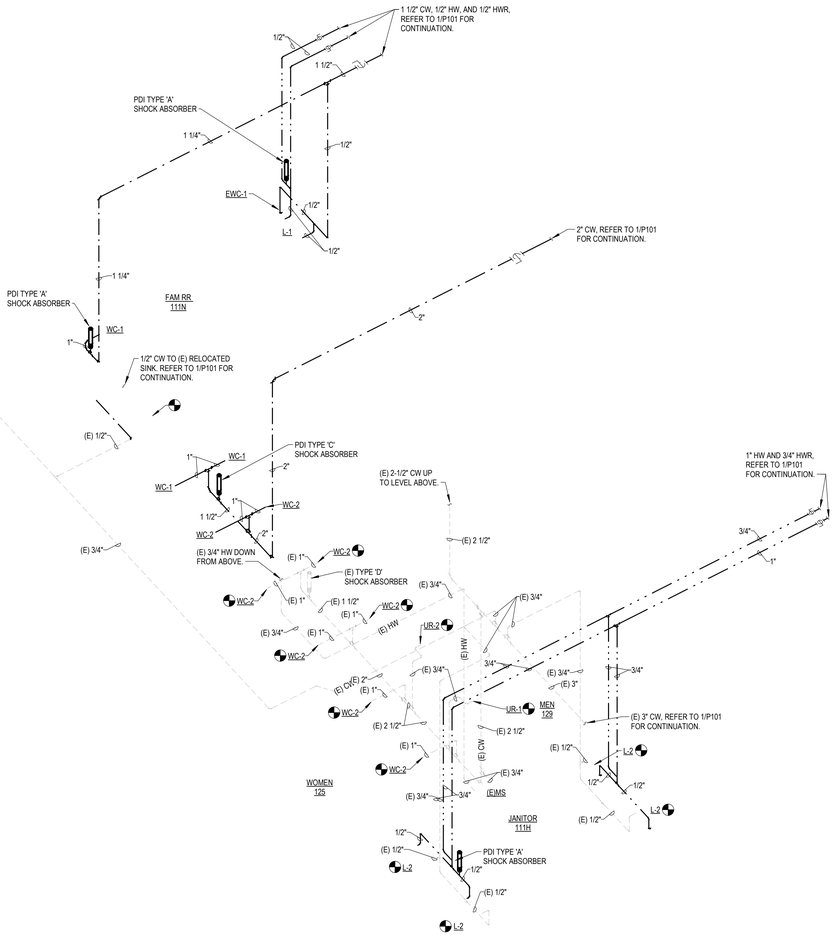


WASTE AND VENT RISER DIAGRAM 1

NOT TO SCALE



DOMESTIC WATER RISER DIAGRAM 2

NOT TO SCALE

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PLUMBING RISER DIAGRAMS

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WATER HEATER SCHEDULE (ELECTRIC)

TAG	LOCATION	VOLUME (GAL)	NUMBER ELEMENTS	ELEMENT WATTAGE	RATED kW	VOLTAGE	PHASE	RECOVERY RATE (GPH @ 80°F RISE)	MANUFACTURER	MODEL NO.
WH-1	120A - MECH.	30	2	3,000	3,000	208	1	15	A. O. Smith	DEL-30

NOTES:

1. PROVIDE SHUTOFF VALVE ON HOT AND COLD WATER LINE.
2. PROVIDE EXPANSION TANK EQUAL TO AMTROL ST-05.
3. ELEMENTS SHALL BE WIRED NON-SIMULTANEOUS.

PLUMBING PUMP SCHEDULE

TAG	TYPE	FLOW (GPM)	HEAD (FT)	MOTOR				MANUFACTURER	MODEL NO.
				HP	RPM	VOLTAGE	PHASE		
CP-1	IN-LINE	5	25	.362	3300	115	1	Bell & Gossett	NBF-45

PLUMBING FIXTURE SCHEDULE

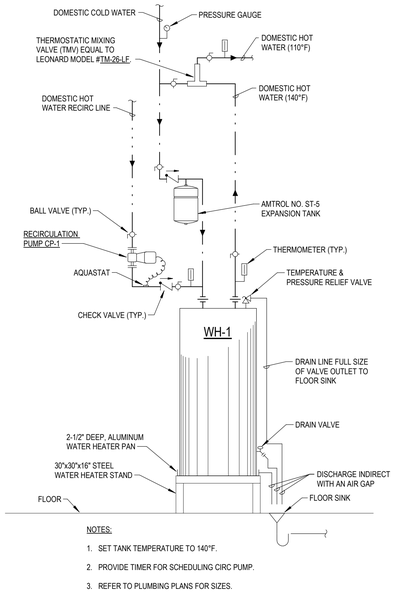
TAG	FIXTURE	C	H	W	V	DESCRIPTION
WC-1	WATER CLOSET, WALL HUNG FLUSH VALVE, ACCESSIBLE	1"	-	4"	2"	AMERICAN STANDARD #3351.128. VITREOUS CHINA (1.28 GPF). ELONGATED TOILET WITH TOP SPUD. SLOAN ROYAL #111-SFSM-1.28 (1.28 GPF) BATTERY POWERED AUTOMATIC FLUSH VALVE. CHURCH #9500CT OPEN FRONT SEAT WITH STA-TITE HINGES. TOP OF SEAT 17-1/2" AFF.
WC-2	WATER CLOSET, WALL HUNG FLUSH VALVE	1"	-	4"	2"	AMERICAN STANDARD #3351.128. VITREOUS CHINA (1.28 GPF). ELONGATED TOILET WITH TOP SPUD. SLOAN ROYAL #111-SFSM-1.28 (1.28 GPF) BATTERY POWERED AUTOMATIC FLUSH VALVE. CHURCH #9500CT OPEN FRONT SEAT WITH STA-TITE HINGES. TOP OF SEAT 15" AFF.
UR-1	URINAL, WALL HUNG FLUSH VALVE, ACCESSIBLE	3/4"	-	2"	2"	AMERICAN STANDARD #6590.525. VITREOUS CHINA, 0.125 GPF, ELONGATED RIM WITH TOP SPUD SLOAN ROYAL #186-SFSM-.13 (0.125GPF) BATTERY POWERED AUTOMATIC FLUSH VALVE. MOUNT RIM 15-1/4" AFF.
UR-2	URINAL, WALL HUNG FLUSH VALVE	3/4"	-	2"	2"	AMERICAN STANDARD #6590.525. VITREOUS CHINA, 0.125 GPF, ELONGATED RIM WITH TOP SPUD. SLOAN ROYAL #186-SFSM-.13 (0.125GPF) BATTERY POWERED AUTOMATIC FLUSH VALVE. MOUNT RIM 24" AFF.
L-1	LAVATORY, WALL HUNG ACCESSIBLE	1/2"	1/2"	2"	2"	AMERICAN STANDARD #0356.421. VITREOUS CHINA WALL-HUNG LAVATORY WITH SINGLE CENTER FAUCET HOLE AND CONCEALED ARMS SUPPORT. SLOAN #SF-2150-4-BAT-BDM-CP-0.35GPM-MLM-IR-FCT (0.35 GPM) BATTERY OPERATED FAUCET WITH MANUFACTURER'S ASSE 1070 BELOW DECK THERMOSTATIC MIXING VALVE, GRID STRAINER & P-TRAP. ADA INSULATION PACKAGE.
L-2	LAVATORY, UNDERCOUNTER MOUNT, ACCESSIBLE	1/2"	1/2"	2"	2"	KOHLER #K-2210-0. VITREOUS CHINA OVAL UNDERMOUNT LAVATORY. SLOAN #SF-2150-4-BAT-BDM-CP-0.35GPM-MLM-IR-FCT (0.35 GPM) BATTERY OPERATED FAUCET WITH MANUFACTURER'S ASSE 1070 BELOW DECK THERMOSTATIC MIXING VALVE, GRID STRAINER & P-TRAP. ADA INSULATION PACKAGE.
S-1	DOUBLE COMPARTMENT SINK COUNTERTOP, ACCESSIBLE	1/2"	1/2"	2"	2"	ELKAY #LRAD3322650PD, 18. GA. STAINLESS STEEL 33"x22"x6-1/2" DEEP COUNTERTOP SINK. DRAIN OPENING TO BE IN THE CENTER REAR LOCATION. T&S #EC-3130-XP-F15 (1.5 GPM) BATTERY POWERED SENSOR FAUCET WITH ACDC CONTROL MODULE, 6" GOOSENECK SPOUT, VANDAL RESISTANT AERATOR, GRID STRAINER AND P-TRAP, ADA INSULATION PACKAGE.
S-2	SINGLE COMPARTMENT HAND SINK COUNTERTOP ACCESSIBLE	1/2"	1/2"	2"	2"	ELKAY #BLR1060, 18. GA. STAINLESS STEEL 15"x15"x6-1/8" DEEP COUNTERTOP SINK. DRAIN OPENING TO BE IN THE CENTER REAR LOCATION. T&S #EC-3130-XP-F15 (1.5 GPM) BATTERY POWERED SENSOR FAUCET WITH ACDC CONTROL MODULE, 6" GOOSENECK SPOUT, VANDAL RESISTANT AERATOR, GRID STRAINER AND P-TRAP, ADA INSULATION PACKAGE.
FD-1	FLOOR DRAIN SQUARE TOP	-	-	SEE PLAN	2"	WATTS #FD-100-M COATED CAST IRON WITH ADJUSTABLE SQUARE NIKALOY STRAINER. FLOOR DRAIN SHALL HAVE INSIDE CAULK CONNECTION AND PROSET TRAP GUARD.
FS-1	FLOOR SINK HALF GRATE	-	-	SEE PLAN		WATTS #FS-730-CAST IRON 12"x12"x6" DEEP SINK WITH ACID-RESISTANT COATING, FLANGE AND ALUMINUM INTERNAL DOME STRAINER. PROVIDE NIKALOY 1/2 GRATE. FLOOR SINKS SHALL HAVE INSIDE CAULK CONNECTION AND PROSET TRAP GUARD.
HD-1	HUB DRAIN	-	-	SEE PLAN	2"	WATTS #FD-100-DD COATED CAST IRON HUB ADAPTER AND MALE THREADED OUTLET.
EWC-1	ELECTRIC WATER COOLER WALL MOUNTED, TWO LEVEL ACCESSIBLE WITH BOTTLE FILLER	1/2"	-	1-1/2"	1-1/2"	HALSEY TAYLOR #HTHB-HACSBLPV-WF, BARRIER FREE, TWO LEVEL, WALL MOUNTED WITH WATER FILTER AND BOTTLE FILLING STATION. CABINET SHALL BE VINYL CLAD STEEL. CHILD AND ADULT ADA COMPLIANT. COOLER SHALL DELIVER 8.0 GPH OF 50°F DRINKING WATER, 115/1ø/60HZ, UTILIZE R-134A REFRIGERANT. PROVIDE AND INSTALL "APRON" SKIRT UNDER THE HIGH EWC, HALSEY TAYLOR #98312C, AS REQUIRED BY ADA A117.1.

NOTES:

1. ALL FIXTURES SHALL MEET LOW WATER CONSUMPTION REQUIREMENTS.
2. PROVIDE STOPS AT ALL FIXTURES.
3. PROVIDE A COMPLETE PROSET TRAP GUARD SYSTEM FOR ALL FLOOR DRAINS AS REQUIRED BY LOCAL CODE.
4. ACCESSIBLE FIXTURES SHALL BE MOUNTED AND INSTALLED PER TAS.
5. PROVIDE FLOOR MOUNTED CARRIERS FOR ALL WALL MOUNTED FIXTURES.
6. PROVIDE TRUE-BRO "LAV-GUARD" INSULATION KIT FOR EXPOSED PIPING AT ALL ACCESSIBLE SINKS AND LAVS.

PLUMBING GENERAL NOTES

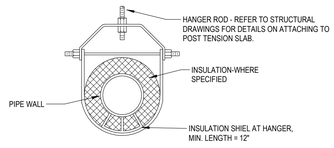
1. FURNISH AND INSTALL ALL MATERIALS AND LABOR REQUIRED TO PROVIDE AND OPERABLE PLUMBING SYSTEMS WITH ALL ITEMS AND APPURTENANCES NECESSARY, EVEN THOUGH NOT SPECIFICALLY CALLED OUT.
2. ALL WORK AND/OR MATERIAL SHALL BE INSTALLED BY A LICENSED CONTRACTOR.
3. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS/SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE PLUMBING CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY EXTRA COST TO THE OWNER.
4. CROSS-CONNECTIONS OF ANY FIXTURE, DEVICE OR CONSTRUCTION WHICH WILL PERMIT BACKFLOW CONNECTIONS BETWEEN A WATER DISTRIBUTION SYSTEM AND ANY PART OF THE DRAINAGE SYSTEM SHALL NOT BE INSTALLED.
5. PLUMBING FIXTURES SHALL BE AS SCHEDULED. ALL HANDICAP FIXTURE INSTALLATIONS SHALL BE IN COMPLIANCE WITH ADA AND TAS (TEXAS ACCESSIBILITY STANDARDS). CONFIRM EXACT LOCATIONS OF ALL PLUMBING FIXTURES WITH ARCHITECT PRIOR TO INSTALLATION. ALL FIXTURES SHALL BE COMPLETE WITH ALL NECESSARY TRIM. ALL EXPOSED METAL PARTS SHALL BE CHROME PLATED BRASS.
6. CONFIRM ROUGH-IN REQUIREMENTS FOR ALL EQUIPMENT PRIOR TO INSTALLATION.
7. COORDINATE EXACT ROUTING OF ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF WORK.
8. PROVIDE TRAP GUARDS FOR ALL FLOOR DRAINS AND FLOOR SINKS EXCEPT FOR THOSE AREAS NOT REQUIRED BY THE CITY OF DENTON PLUMBING CODE.
9. PROVIDE FACTORY MANUFACTURED WATER HAMMER ARRESTORS WHERE REQUIRED AND/OR INDICATED ON THE DRAWINGS.
10. CONTRACTOR SHALL CONFIRM DEPTHS OF EXISTING SEWER LINES AND CONFIRM ADEQUACY FOR CONNECTION OF NEW SYSTEM. THE ENGINEER SHALL BE NOTIFIED IF THE REQUIRED SLOPES CAN NOT BE MAINTAINED, PRIOR TO INSTALLATION OF ANY NEW PIPING.
11. ALL WATER PIPING PASSING THROUGH CONCRETE FLOOR SLABS SHALL BE COMPLETELY ISOLATED FROM THE CONCRETE BY ENCASEMENT IN 1/2" THICK FLEXIBLE FOAM PLASTIC INSULATION FROM WELL BELOW THE BOTTOM OF THE CONCRETE SLAB UP TO TWO INCHES ABOVE THE BEAMS BELOW GRADE, IT SHALL BE WRAPPED WITH 2 PLYS OF 15# FELT TO ISOLATE THE PIPE FROM THE CONCRETE. WHERE WATER PIPE EXTENDS THROUGH CONCRETE GRADE BEAMS BELOW GRADE, IT SHALL BE ENCASED IN 3/8" THICK FLEXIBLE FOAM PLASTIC INSULATION. PIPING BELOW SLAB SHALL BE TYPE "M" SOFT TEMPER COPPER WITHOUT JOINTS.
12. ALL EXPOSED PIPING PASSING THROUGH FLOORS, CEILINGS OR WALLS SHALL BE PROVIDED WITH APPROVED PLATES OF SUFFICIENT DIAMETER TO COVER THE SLEEVE OPENING AND FIT SNUGLY AROUND THE PIPE.
13. WATER AND SEWER LINES SHALL BE LAID IN SEPARATE TRENCHES WITH A MINIMUM HORIZONTAL SPACING AS REQUIRED BY CODE.
14. THIS CONTRACTOR SHALL FURNISH ALL PIPE SUPPORTS REQUIRED FOR HIS EQUIPMENT AND MATERIAL. ALL HORIZONTAL RUNS OF PIPING SHALL BE SUPPORTED BY PIPE HANGERS SPACED NOT MORE THAN 10 FEET APART FOR PIPES 1-1/4" AND LARGER, AND 8' FOR PIPES SMALLER THAN 1-1/4", AND AT EACH JOINT FOR SOIL OR WASTE PIPE. ADDITIONAL SUPPORTS SHALL BE PROVIDED WHERE REQUIRED TO PREVENT SAGGING. HANGERS FOR COPPER PIPE SHALL HAVE NYLON INSULATED BUSHINGS OR PIPE SHALL BE WRAPPED WITH 15# FELT.
15. CLEANOUTS SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS, OR WHERE REQUIRED, TO PROVIDE ACCESS TO ALL LINES AND AT HORIZONTAL RUN AT INTERVALS NOT EXCEEDING 80 FEET IN ALL SOIL, WASTE AND DRAIN LINES. CLEANOUTS SHALL BE SAME AS PIPE EXCEPT CLEANOUTS LARGER THAN 4" WILL NOT BE REQUIRED.
16. DO NOT INSTALL PVC PIPING IN ANY RETURN AIR PLENUMS.
17. BACKFLOW PREVENTERS (RPZA) SHALL BE CERTIFIED AND SUBMITTED TO THE CITY OF DENTON.
18. PROVIDE A MINIMUM CLEARANCE OF 24" OF FREE AREA IN FRONT OF BACKFLOW PREVENTERS FOR ACCESSIBILITY. ALL BACKFLOW PREVENTERS SHALL BE PROVIDED WITH SEDIMENT STRAINER, ISOLATION VALVES, AIR GAP, AND FULL-SIZE DRAIN PIPING.
19. CONTRACTOR SHALL WRAP ALL EXISTING PVC PIPING, INSTALLED WITHIN THE RETURN AIR PLENUM SPACE, WITH UNIFRAX FYREWRAP 0.5 PLENUM INSULATION.



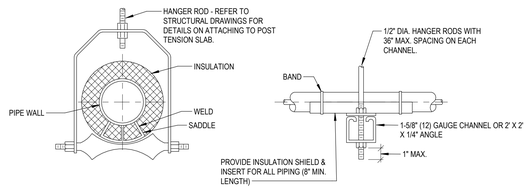
NOTES:

1. SET TANK TEMPERATURE TO 140°F.
2. PROVIDE TIMER FOR SCHEDULING CIRC PUMP.
3. REFER TO PLUMBING PLANS FOR SIZES.

ELECTRIC WATER HEATER DETAIL 1
NOT TO SCALE



ADJUSTABLE CLEVIS HANGER



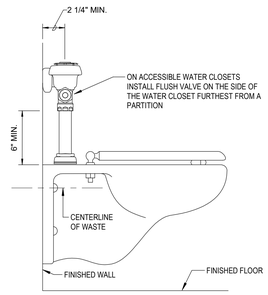
ADJUSTABLE ROLLER HANGER

SIDE VIEW

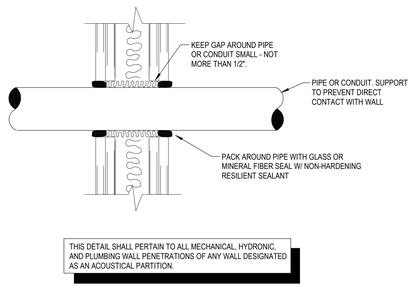
TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

MAXIMUM PIPE SUPPORT SPACING, FEET																			
NOM. PIPE SIZE	THRU 3/4"	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24	
SPACING	7 FT	7	8	9	10	11	12	14	16	17	19	22	23	25	27	28	30	32	
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST PIPE SIZE ON TRAPEZE																			

PIPE HANGER DETAILS 2
NOT TO SCALE

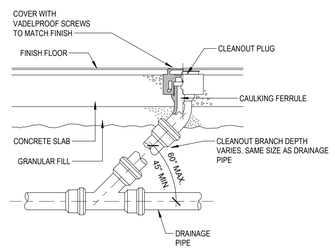


FLUSH VALVE INSTALLATION DETAIL 3
NOT TO SCALE

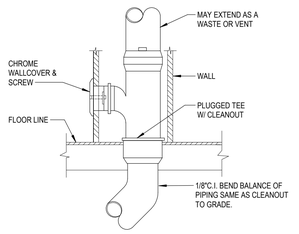


THIS DETAIL SHALL PERTAIN TO ALL MECHANICAL, HYDRONIC, AND PLUMBING WALL PENETRATIONS OF ANY WALL DESIGNATED AS AN ACOUSTICAL PARTITION.

DRYWALL PIPE PENETRATION DETAIL 4
NOT TO SCALE



BELOW FLOOR CLEANOUT DETAIL 5
NOT TO SCALE



NOTES:

1. CLEAN OUT SHALL BE INSTALLED ABOVE THE WASTE FLOWLINE.
2. CLEAN OUT SHALL BE INSTALLED FLUSH WITH THE INSIDE OF THE SHEETROCK.

WALL CLEANOUT DETAIL 6
NOT TO SCALE

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BHB Project # 2023.029.003

KIRK W. PLUM
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LICENSED PROFESSIONAL ENGINEER
01/15/2025

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UNIVERSITY OF NORTH TEXAS

CHILTON HALL LEVEL 1 RENOVATION

410 Avenue C
Denton, Texas 76201

UNT

Issued For:	ISSUE FOR CONSTRUCTION
Date:	01/16/2025

REVISIONS

NO	DESCRIPTION	DATE

P301

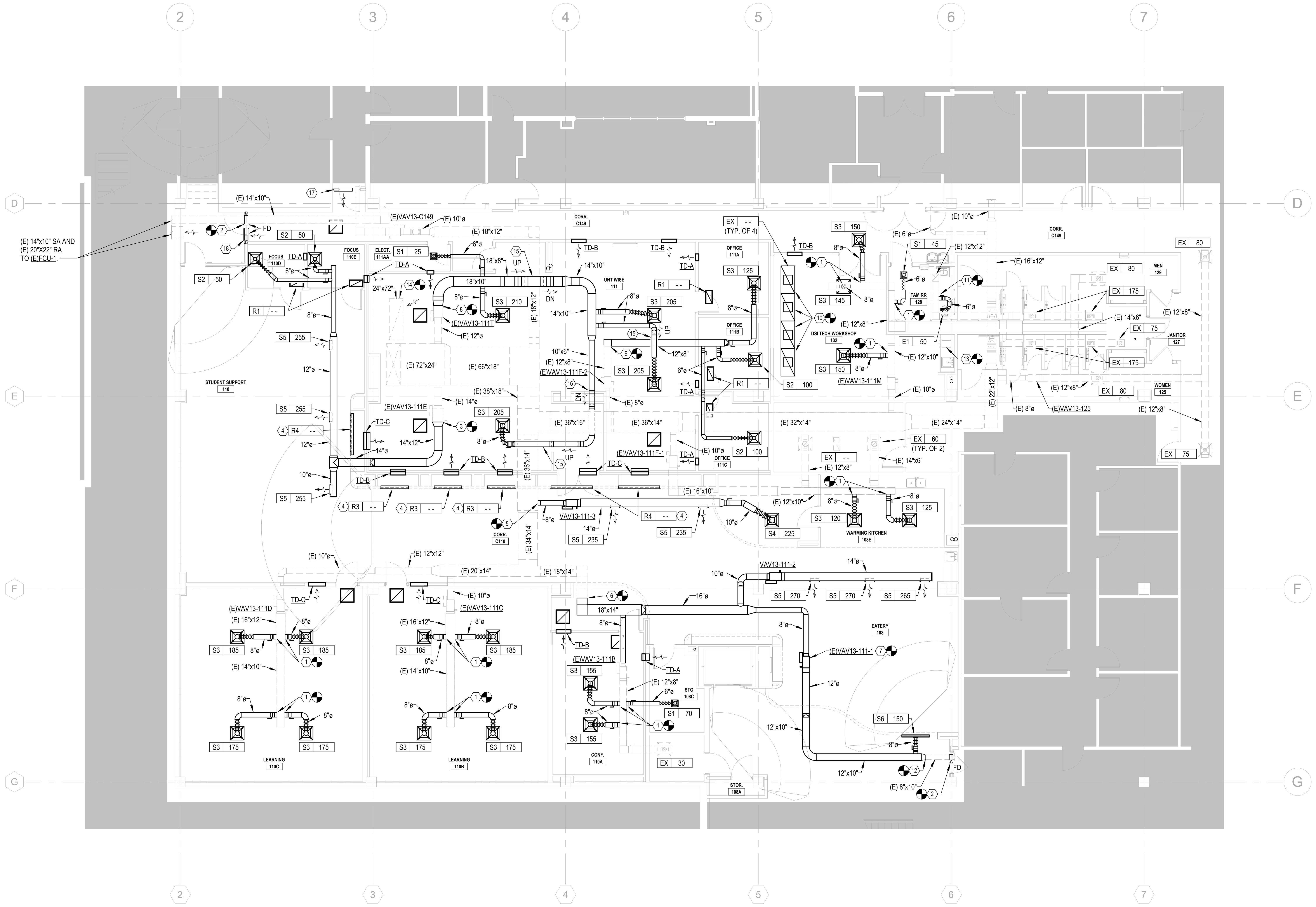
PLUMBING SCHEDULES AND DETAILS

Treanor NO. HE0569.2401.00

MECHANICAL LEGEND

Symbol	Description
	NEW DUCTWORK
	SUPPLY AIR DIFFUSER
	RETURN GRILLE
	EXHAUST GRILLE
	SIDEWALL GRILLE/DIFFUSER
	LINEAR SLOT DIFFUSER
	FLEXIBLE DUCTWORK (MAX. 6'-0" LENGTH)
T	TEMPERATURE SENSOR (MOUNT 4'-0" AFF)
	VOLUME DAMPER
12"x8"	INDICATES 12" x 8" INS. DIM. NET (1ST FIGURE = SIDE SHOWN, 2ND FIGURE = SIDE NOT SHOWN)
A1 150 (TYPE, CFM)	DIFFUSER OR GRILLE DESIGNATION
VAV-xx-xxx (AIR HANDLING UNIT NUMBER, BOX NUMBER)	TERMINAL UNIT DESIGNATION • VAV: SINGLE DUCT • DDV: DUAL DUCT • FPV: FAN POWERED
	EXISTING TO REMAIN
	ITEM TO BE REMOVED
	CONNECT TO EXISTING

Abbreviation	Meaning
EXH	EXHAUST AIR
SA	SUPPLY AIR
RA	RETURN AIR
TA	TRANSFER AIR
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
HWR	HYDRONIC HEATING WATER RETURN
HWS	HYDRONIC HEATING WATER SUPPLY
VAV	VARIABLE AIR VOLUME
FCU	FAN COIL UNIT
TD	TRANSFER AIR DEVICE
EMCS	ENERGY MANAGEMENT CONTROLS SYSTEM
DDC	DIRECT DIGITAL CONTROL
(E)	EXISTING TO REMAIN
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
B/S	BELOW SLAB
DN	DOWN
POC	POINT OF CONNECTION
NIC	NOT IN CONTRACT



LEVEL 1 FLOOR PLAN - MECHANICAL 1

1/8" = 1'-0"

NOTES BY SYMBOL: "#"

1. CONNECT NEW SUPPLY AIR BRANCH DUCT TO (E) SUPPLY AIR DUCTWORK AND ROUTE ABOVE CEILING AS INDICATED TO NEW AIR DEVICE.
2. PROVIDE AND INSTALL FIRE DAMPER IN (E) DUCTWORK AT PENETRATION OF NEW FIRE RATED PARTITION. CONFIRM LOCATION AND SIZE OF (E) DUCTWORK ON SITE.
3. CONNECT 14"x12" SUPPLY DUCT TO (E)VAV13-111E AND ROUTE ABOVE CEILING AS INDICATED.
4. RETURN AIR LINEAR BAR GRILLE WITH A CONCEALED PLASTERED MUD FRAME. CENTERLINE OF AIR DEVICE SHALL BE INITIALLY SET AT 9'-6" AFF, CONFIRM WITH ARCHITECT PRIOR TO ROUGH-IN. CONCEALED PLASTERED MUD FRAME SHALL BE INSTALLED PRIOR TO WALL MUDDING AND PAINTING.
5. CONNECT 8"ø SUPPLY DUCT TO (E) 36"x14" MAIN AND ROUTE AS INDICATED TO VAV13-111-3.
6. CONNECT 18"x14" SUPPLY DUCT TO (E) 18"x14" MAIN AND ROUTE AS INDICATED.
7. REINSTALL (E)VAV13-111-1, ROUTE NEW 12"ø SUPPLY DUCT AS INDICATED. TRANSITION TO 12"x10" ABOVE WOOD SLAT CEILING.
8. CONNECT 18"x10" SUPPLY DUCT TO (E)VAV13-111T AND ROUTE ABOVE CEILING AS INDICATED.
9. CONNECT 12"x8" SUPPLY DUCT TO (E) 12"x8" MAIN AND ROUTE ABOVE CEILING AS INDICATED.
10. THOROUGHLY CLEAN AND RE-INSTALL (E) RETURN AIR DEVICE. COORDINATE INSTALLED LOCATION WITH NEW CEILING GRID, FURNITURE LAYOUT, AND ARCHITECT PRIOR TO INSTALLING.
11. CONNECT 6"ø EXHAUST DUCT TO (E) 12"x12" EXHAUST MAIN AND ROUTE ABOVE CEILING AS INDICATED.
12. CONNECT 8"x10" SUPPLY DUCT TO (E) 8"x10" MAIN ABOVE CEILING.
13. REINSTALL (E) SPACE DEHUMIDIFIER AND ROUTE FULL SIZE DRAIN FROM DEHUMIDIFIER. DISCHARGE FULL SIZE DRAIN INDIRECT INTO HUB DRAIN BELOW (E) RELOCATED SINK. COORDINATE EXACT LOCATION ON SITE WITH OWNER PRIOR TO INSTALLATION.
14. CONNECT 72"x24" ELBOW TO (E) 72"x24" RA RISER AND COVER OPENING WITH 3/4" STAINLESS-STEEL WIRE MESH.
15. OFFSET DUCTWORK UP AND ROUTE OVER DUCTWORK AS REQUIRED.
16. OFFSET DUCTWORK DOWN AND ROUTE UNDER DUCTWORK AS REQUIRED.
17. PROVIDE 32"x20" TA OPENING ABOVE CEILING AS HIGH AS POSSIBLE.
18. PROVIDE 20"x22" TA OPENING WITH FIRE DAMPER ABOVE CEILING AS HIGH AS POSSIBLE.

SHEET NOTES:

1. PROVIDE A VOLUME DAMPER IN THE DUCT PRIOR TO CONNECTION TO EACH AIR DEVICE INSTALLED AS CLOSE TO THE DUCT MAIN AS POSSIBLE.
2. ALL RETURN AIR DEVICES SHALL BE TYPE 'R2' UNLESS OTHERWISE NOTED ON THE DRAWINGS.
3. ALL NEW DUCTWORK EXPOSED TO VIEW SHALL BE 1-1/2" INSULATED DOUBLE WALL GALVANIZED DUCT AND PAINT GRIP TYPE. THE COLOR AND EXTENT OF EXPOSED DUCTWORK OR EXISTING WRAP INSULATION TO BE PAINTED SHALL BE COORDINATED AND CONFIRMED WITH THE ARCHITECT.
4. : AREAS NOT IN SCOPE OF WORK.

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M101

LEVEL 1 FLOOR PLAN - MECHANICAL

Treanor NO. HE0569.2401.00

Autodesk Docs://HE0569.2401.00 UNT Chilton Hall Level 1 Renovation/Chilton Hall Level 1 Renovation_R24_BHB.rvt

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MECHANICAL LEGEND

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	EXHAUST GRILLE
	SIDEWALL GRILLE/DIFFUSER
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FCU	FAN COIL UNIT
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EMCS	ENERGY MANAGEMENT CONTROLS SYSTEM
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(E)	EXISTING TO REMAIN
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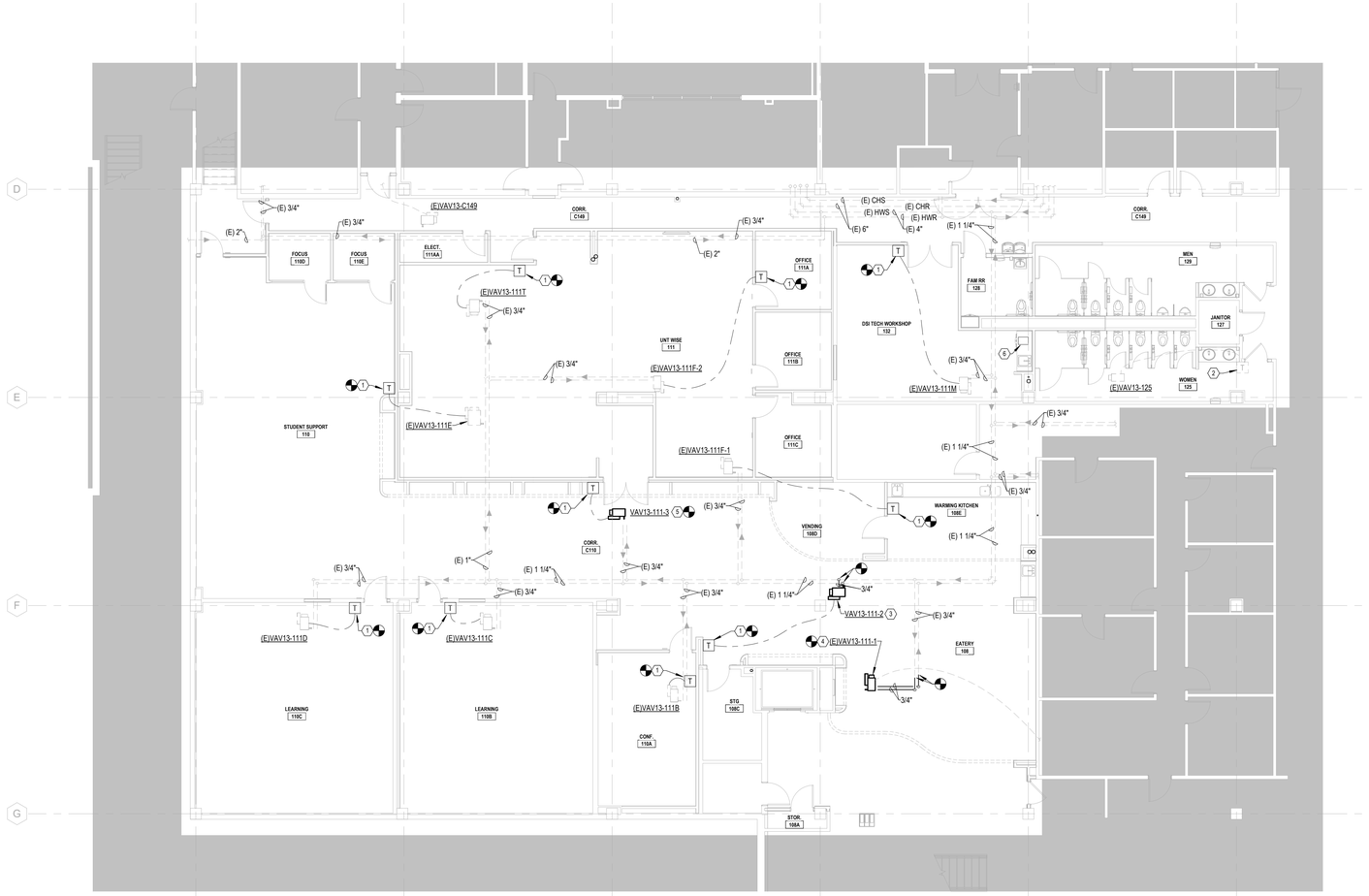

LEVEL 1 FLOOR PLAN - HYDRONIC AND CONTROLS

1/8" = 1'-0"

1

0 4' 8' 16'

NOTES BY SYMBOL: "(#)"

1. REINSTALL (E) RELOCATED TEMPERATURE SENSOR.
2. (E) TEMPERATURE SENSOR TO REMAIN.
3. CONNECT 3/4" HWS/HWR TO (E) 1-1/4" HWS/HWR AND ROUTE TO NEW VAV13-111-2. PROVIDE AND INSTALL ISOLATION SHUT-OFF VALVES PRIOR TO FINAL CONNECTION TO (E) 1-1/4" HWS/HWR MAINS.
4. CONNECT 3/4" HWS/HWR TO (E) 3/4" HWS/HWR AND ROUTE TO RELOCATED (E)VAV13-111-1. EXTEND AND RECONNECT (E) CONTROL WIRING TO (E)VAV13-111-1.
5. CONNECT (E) 3/4" HWS/HWR TO NEW VAV13-111-3.
6. (E) RELOCATED SPACE DEHUMIDIFIER, REFER TO M101 FOR ADDITIONAL INFORMATION.

SHEET NOTES:

1. LOCATIONS OF TEMPERATURE SENSORS SHALL BE COORDINATED WITH THE FURNITURE LAYOUT AND CONFIRMED WITH THE ARCHITECT/OWNER PRIOR TO ROUGH-IN.
2. MOUNT ALL TEMPERATURE SENSORS 4'-0" ABOVE FLOOR.
3. : AREAS NOT IN SCOPE OF WORK.

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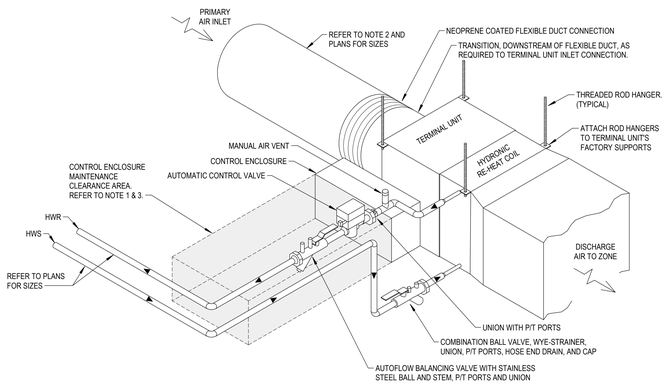
LEVEL 1 FLOOR PLAN - HYDRONIC AND CONTROLS

Treanor NO. HE0569.2401.00



NOTES:

1. ALL TERMINAL UNIT CONTROL ENCLOSURES AND HYDRONIC REHEAT COILS, SHALL HAVE AN UNOBSTRUCTED ACCESSIBLE CLEARANCE DIRECTLY IN FRONT OF THE ENCLOSURES, 2' - 6" MINIMUM OR AS REQUIRED BY NEC. THE UNOBSTRUCTED ACCESSIBLE CLEARANCE SHALL BE FROM THE BOTTOM OF THE CEILING, UP TO THE TOP OF THE ASSOCIATED ENCLOSURE. THE CONTROL ENCLOSURES AND ANY POWER CONNECTIONS TO THE TERMINAL UNIT SHALL BE LOCATED ON SAME SIDE OF THE UNIT.
2. ALL PRIMARY AIR INLET DUCTS SHALL HAVE A MINIMUM OF 3 DUCT DIAMETERS OF STRAIGHT RUN UPSTREAM OF THE TERMINAL UNIT INLET.
3. ALL TERMINAL UNITS SHALL BE LOCATED IN ACCESSIBLE AREAS SUCH AS COMMON AREAS, CORRIDORS, OR OFFICE DOORWAYS. TERMINAL UNIT'S INSTALLED ABOVE A GYP CEILING SHALL HAVE AN ACCESS PANEL LOCATED DIRECTLY BENEATH THE CONTROL ENCLOSURE. MECHANICAL CONTRACTOR SHALL COORDINATE ALL CEILING TYPES AND REQUIRED LOCATIONS OF ACCESS PANELS WITH THE ARCHITECTURAL DRAWINGS, REFLECTED CEILING PLANS, AND SPECIFICATIONS.

TERMINAL UNIT DETAIL (VAV w/HYDRONIC RE-HEAT) 1

NOT TO SCALE

TERMINAL UNIT SCHEDULE (SINGLE DUCT - HYDRONIC REHEAT)

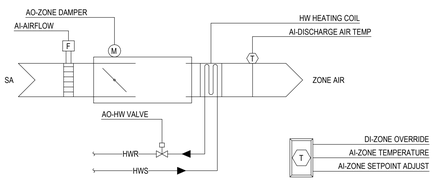
TAG	LOCATION	NECK SIZE	MIN. INLET S.P. (IN. OF WTR.)	COOLING		RE-HEAT COIL						SOUND		MANUFACTURER	MODEL NO.
				MAX. CFM	MIN. CFM	CFM	E.A.T. (°F)	L.A.T. (°F)	MIN. CAPACITY (BTUH)	E.W.T. (°F)	L.W.T. (°F)	GPM	MAX. RAD. NC	MAX. DIS. NC		
VAV13-111-2	108 - EATERY	10"	0.50	805	245	245	55.0	105.0	13,261	180.0	160.0	1.3	<20	<20	Price Industries	SDV Series
VAV13-111-3	C110 - CORRIDOR	8"	0.50	695	210	210	55.0	105.0	11,259	180.0	160.0	1.1	<20	<20	Price Industries	SDV Series

EXISTING TERMINAL UNIT SCHEDULE (SINGLE DUCT - HYDRONIC REHEAT)

TAG	LOCATION	NECK SIZE	MIN. INLET S.P. (IN. OF WTR.)	COOLING		RE-HEAT COIL						SOUND		MANUFACTURER	MODEL NO.
				MAX. CFM	MIN. CFM	CFM	E.A.T. (°F)	L.A.T. (°F)	MIN. CAPACITY (BTUH)	E.W.T. (°F)	L.W.T. (°F)	GPM	MAX. RAD. NC	MAX. DIS. NC		
(E)VAV13-111-1	108 - EATERY	8"	0.50	440	135	135	55.0	105.0	7,112	180.0	160.0	0.7	<20	<20	Price Industries	SDV Series
(E)VAV13-111B	110A - CONF.	8"	0.50	410	125	125	55.0	105.0	5,781	180.0	160.0	0.6	<20	<20	Price Industries	SDV Series
(E)VAV13-111C	110B - LEARNING	10"	0.50	720	220	220	55.0	105.0	10,960	180.0	160.0	1.1	<20	<20	Price Industries	SDV Series
(E)VAV13-111D	110C - LEARNING	10"	0.50	720	220	220	55.0	105.0	10,960	180.0	160.0	1.1	<20	<20	Price Industries	SDV Series
(E)VAV13-111E	111 - UNT WISE	14"	0.50	865	260	260	55.0	105.0	19,615	180.0	160.0	2	<20	<20	Price Industries	SDV Series
(E)VAV13-111F-1	111 - UNT WISE	10"	0.50	365	110	110	55.0	105.0	5,992	180.0	160.0	0.6	<20	<20	Price Industries	SDV Series
(E)VAV13-111F-2	111 - UNT WISE	8"	0.50	325	100	100	55.0	105.0	5,099	180.0	160.0	0.5	<20	<20	Price Industries	SDV Series
(E)VAV13-111M	132 - DSI TECH	10"	0.50	490	150	150	55.0	105.0	10,854	180.0	160.0	1.1	<20	<20	Price Industries	SDV Series
(E)VAV13-111T	111 - UNT WISE	12"	0.50	850	255	225	55.0	105.0	17,731	180.0	160.0	1.8	<20	<20	Price Industries	SDV Series
(E)VAV13-111YZ	111K - CORR.	10"	0.50	500	150	150	55.0	105.0	8,119	180.0	160.0	0.8	<20	<20	Price Industries	SDV Series

EXISTING TERMINAL UNIT SCHEDULE (SINGLE DUCT - COOLING ONLY)

TAG	LOCATION	NECK SIZE	MIN. INLET S.P. (IN. OF WTR.)	COOLING		SOUND		MANUFACTURER	MODEL NO.
				MAX. CFM	MIN. CFM	MAX. RAD. NC	MAX. DIS. NC		
(E)VAV13-125	125 - WOMEN	8"	0.25	315	95	<20	<20	Price Industries	SDV Series



NOTES:

1. THE DESIGN INTENT IS TO UTILIZE THE EXISTING SEQUECE OF OPERATIONS FOR ALL NEW AND EXISTING AIR TERMINAL UNITS.

VARIABLE AIR VOLUME UNIT CONTROL DIAGRAM 2

NOT TO SCALE

MECHANICAL GENERAL NOTES

1. FURNISH AND INSTALL ALL MATERIALS AND LABOR REQUIRED TO PROVIDE COMPLETE AND OPERABLE HVAC SYSTEMS WITH ALL ITEMS AND APPURTENANCES NECESSARY EVEN THOUGH NOT SPECIFICALLY IDENTIFIED.
2. ALL WORK AND/OR MATERIALS SHALL BE INSTALLED BY A LICENSED CONTRACTOR AND SHALL CONFORM TO ALL APPLICABLE NATIONAL AND LOCAL BUILDING AND MECHANICAL CODES.
3. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH SMACNA STANDARDS. INSTALL TURNING VANES IN ALL DUCTWORK ELBOWS.
4. WHERE DUCTWORK IS INDICATED TO BE EXPOSED TO VIEW IN OCCUPIED SPACES, PROVIDE MATERIALS THAT ARE FREE FROM VISUAL IMPERFECTIONS INCLUDING PITTING, SEAM MARKS, ROLLER MARKS, AND STAINS AND DISCOLORATIONS, AND OTHER IMPERFECTIONS, INCLUDING THOSE THAT WOULD IMPAIR PAINTING.
5. ALL INTERIOR DUCTS SHALL BE CONSTRUCTED WITH G-60 OR BETTER GALVANIZED STEEL (ASTM A 653/A 653M) LFQ, CHEM TREAT. EXTERIOR DUCTWORK OR DUCT EXPOSED TO HIGH HUMIDITY CONDITIONS (I.E. MOISTURE LADEN EXHAUSTS NOT SPECIFIED TO BE STAINLESS STEEL) SHALL BE G-90 OR BETTER GALVANIZED STEEL LFQ, CHEM TREAT.
6. COORDINATE EXACT ROUTING OF ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION OF WORK.
7. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION AND ROUTING OF DUCTWORK WITH REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING LAYOUT. MECHANICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL AIR DEVICES WITH REFLECTED CEILING PLANS AND ELECTRICAL LIGHTING AND OTHER LAYOUTS.
8. ALL SUPPLY AND RETURN AIR DUCTWORK SHALL BE INSULATED WITH 2" THICK, 0.75 LB/CF (MINIMUM) FSK WRAP INSULATION (MINIMUM INSTALLED R-VALUE = R-6).
9. FLEXIBLE DUCTWORK RUNOUTS SHALL BE LIMITED TO 6'-0" EXTENDED LENGTH. FLEXIBLE DUCTWORK SHALL BE EQUAL TO ATCO #036. FLEXIBLE DUCTS, BOTH SUPPLY AND RETURN, SHALL HAVE INSULATION WITH A MINIMUM R-VALUE OF 6.0, PER IECC. DUCT SHALL HAVE A CONTINUOUS FLEXIBLE FIBERGLASS SHEATH WITH UL APPROVED METALIZED POLYESTER BARRIER JACKET.
10. INSTALL FLEXIBLE DUCTWORK CONNECTIONS AT ALL DUCT CONNECTIONS TO TERMINAL UNITS AND FANS.
11. ALL DUCT DIMENSIONS SHOWN ARE NET CLEAR INSIDE DIMENSIONS.
12. MOUNT ALL TEMPERATURE SENSORS 4'-0" ABOVE FLOOR (TYPICAL).
13. FOR ALL VOLUME DAMPERS LOCATED ABOVE A HARD CEILING, PROVIDE AND INSTALL A WORM GEAR REMOTE VOLUME DAMPER REGULATOR. INSTALL KEY ACCESS IN THE CEILING DIRECTLY BELOW THE DAMPER AND PAINT CAP TO MATCH CEILING.
14. DO NOT ROUTE ANY DUCTWORK OVER ELECTRICAL PANELS OR I.T. SERVERS.
15. ALL NEW DUCTWORK EXPOSED TO VIEW SHALL BE 1-1/2" INSULATED DOUBLE WALL GALVANIZED DUCT AND PAINT GRIP TYPE. THE COLOR AND EXTENT OF EXPOSED DUCTWORK OR EXISTING WRAP INSULATION TO BE PAINTED SHALL BE COORDINATED AND CONFIRMED WITH THE ARCHITECT.
16. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER'S TESTING AND BALANCING AGENCY TO TEST AND BALANCE THE HVAC SYSTEMS. SYSTEMS SHALL BE BALANCED PER SPECIFICATION REQUIREMENTS. THE CONTRACTOR SHALL PLACE ALL SYSTEMS AND EQUIPMENT INTO FULL OPERATION FOR TESTING AND BALANCING. ONE COPY OF THE FINAL TEST AND BALANCE REPORT WITH THE AABC NATIONAL PERFORMANCE GUARANTY SHALL BE SENT DIRECTLY TO THE ENGINEER OF RECORD. PROVIDE FIVE (5) ADDITIONAL COPIES TO THE CONTRACTOR.
17. BRANCH DUCTS SHALL BE PROVIDED WITH A MANUAL VOLUME BALANCING DAMPER. ALL MANUAL VOLUME BALANCING DAMPERS SHALL BE PROVIDED WITH ORANGE RIBBON ON THE HANDLE FOR TEST AND BALANCING.
18. ALL EXISTING DUCTWORK TO REMAIN SHALL BE THOROUGHLY INSPECTED FOR DAMAGE AND AIR LEAKAGE. ALL OBSERVED DAMAGED DUCTWORK OR AIR LEAKAGE SHALL BE PATCHED OR REPAIRED, SEAL AIR AND WATER-TIGHT.

AIR DEVICE SCHEDULE

TAG	DESCRIPTION	OPPOSED BLADE DAMPER	FINISH	PRICE MODEL NO.
S1	12"x12" SQ. LOUVERED FACE CEILING DIFFUSER 6"ø NECK	NO	WHITE ENAMEL	SCD
S2	24"x24" SQ. LOUVERED FACE CEILING DIFFUSER 6"ø NECK	NO	WHITE ENAMEL	SCD
S3	24"x24" SQ. LOUVERED FACE CEILING DIFFUSER 8"ø NECK	NO	WHITE ENAMEL	SCD
S4	24"x24" SQ. LOUVERED FACE CEILING DIFFUSER 10"ø NECK	NO	WHITE ENAMEL	SCD
S5	16"x6" SPIRAL DUCT GRILLE EXTRUDED ALUMINUM FRAME 22° DEFLECTION	AIR SCOOP	PC12 PRIME COAT	SDGE
S6	4'-0" LONG LINEAR SLOT DIFFUSER WITH (2) 3/4" SLOTS AND INSULATED PLENUM	NO	WHITE ENAMEL	SDS75 w/ SDB75
R1	12"x24" PERFORATED FACE CEILING RETURN GRILLE 10"x22" NECK	NO	WHITE ENAMEL	PDDR
R2	24"x24" PERFORATED FACE CEILING RETURN GRILLE 22"x22" NECK	NO	WHITE ENAMEL	PDDR
R3	48"x6" LINEAR BAR GRILLE 1/8" BARS WITH 1/2" SPACING 15° DEFLECTION WITH CONCEALED PLASTER FRAME	NO	WHITE ENAMEL	LBPH WITH CPF
R4	72"x6" LINEAR BAR GRILLE 1/8" BARS WITH 1/2" SPACING 15° DEFLECTION WITH CONCEALED PLASTER FRAME	NO	WHITE ENAMEL	LBPH WITH CPF
E1	12"x12" PERFORATED FACE CEILING EXHAUST GRILLE 6"ø NECK	NO	WHITE ENAMEL	PDDR

NOTES:

1. ALL SUPPLY DIFFUSERS LISTED AS LOUVERED FACE TYPE SHALL BE (4) CONE LOUVER TYPE.
2. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
3. ALL AIR DEVICES INSTALLED IN GYP BOARD, PLASTER, OR OTHER HARD CEILING SHALL HAVE A SEPARATE MOUNTING FRAME.
4. LINEAR SLOT DIFFUSERS SHALL HAVE AN INSULATED PLENUM AND BLACK PATTERN CONTROLLERS.
5. SPRIAL DUCT GRILLES CURVED FRAME SHALL MATCH THE SUPPLY AIR DUCT RADIUS.

ADJUSTABLE CLEVIS HANGER

ADJUSTABLE ROLLER HANGER

SIDE VIEW

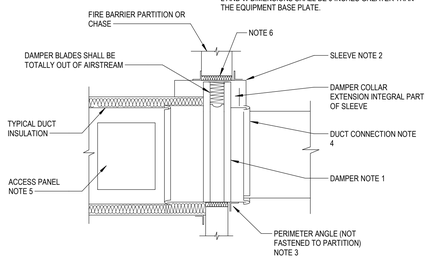
TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

MAXIMUM PIPE SUPPORT SPACING, FEET

NOM. PIPE SIZE	THRU 3/4"	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10	12	14	16	18	20	24
SPACING	7 FT	7	8	9	10	11	12	14	16	17	19	22	23	25	27	28	30	32
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST PIPE SIZE ON TRAPEZE																		

PIPE HANGER DETAILS 3

NOT TO SCALE

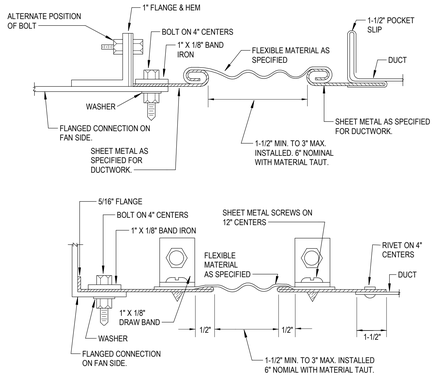


NOTES:

1. FOLLOW DAMPER MANUFACTURER'S INSTRUCTIONS, INCLUDING FASTENER OPTIONS AND GAGES FOR SLEEVE & PERIMETER ANGLES. FIRE DAMPERS MUST BE INSTALLED IN THE PARTITION OR FLOOR, NOT OUTSIDE THE PENETRATION.
2. GALVANIZED SLEEVE: GAGE NOT LESS THAN THAT OF CONNECTING DUCT. FASTEN SLEEVE TO DAMPER FRAME & PERIMETER ANGLES.
3. PERIMETER ANGLES: GALVANIZED STEEL NOT LESS THAN 1-1/2"x1-1/2"x1/4", TO PROVIDE 1" MINIMUM OVERLAP OF OPENING ON ALL SIDES.
4. BREAKAWAY DUCT CONNECTION: CONTRACTORS OPTION OF TYPES SHOWN IN SMACNA LPDS, FIG. 2-13. SEAL JOINTS.
5. ACCESS PANEL: SIZE & LOCATE TO PERMIT SERVICING THE FUSIBLE LINK OR LINKS.
6. PROVIDE 1/4" TO 1/2" CLEARANCE ON HEIGHT & WIDTH FILL OPEN SPACE WITH ROCK WOOL FIRESTOP FIBER.
7. FIRE DAMPER SHLL BE TYPE "C" - BLADES TOTALLY OUT OF AIRSTREAM.

FIRE DAMPER INSTALLATION DETAIL 4

NOT TO SCALE



TYPICAL FLEX CONNECTION DETAIL 5

NOT TO SCALE

TRANSFER AIR DEVICE SCHEDULE

TAG	SIZE W" x H"	MAX. CFM	MAX. VELOCITY (FPM)	MANUFACTURER	MODEL NO.
TD-A	12" x 8"	155	250	PRICE	RAS-LP-T
TD-B	28" x 14"	840	365	PRICE	RAS-LP-T
TD-C	30" x 20"	1,020	265	PRICE	RAS-LP-T

NOTES:

1. ALL TRANSFER AIR DEVICES EXPOSED TO VIEW, SHALL BE PAINTED TO MATCH SURROUNDING CONDITIONS. COORDINATE COLOR WITH ARCHITECT.
2. ALL TRANSFER AIR DEVICES SHALL HAVE FIBER FREE FOAM ACOUSTIC MEDIA.
3. ALL TRANSFER AIR DEVICES SHALL HAVE A PRIME COAT FINISH.

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MECHANICAL SCHEDULES AND DETAILS

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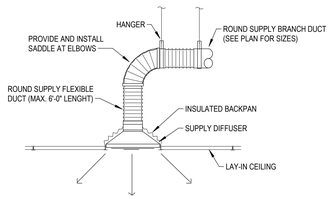
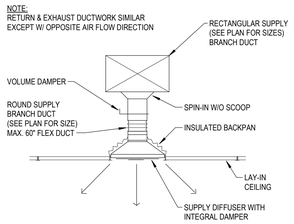
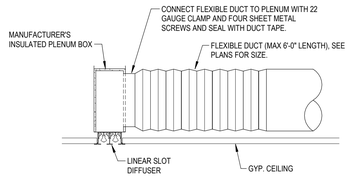


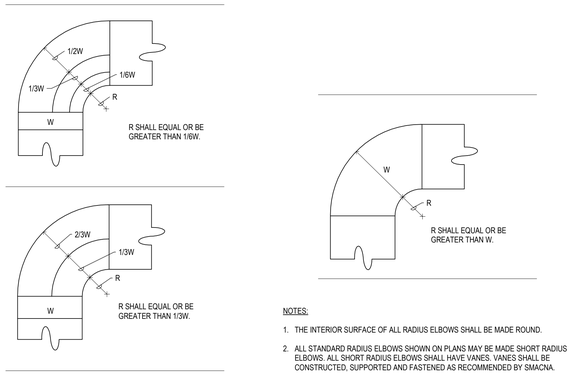
DIFFUSER CONNECTION DETAIL 1
NOT TO SCALE



DIFFUSER CONNECTION DETAIL 2
NOT TO SCALE



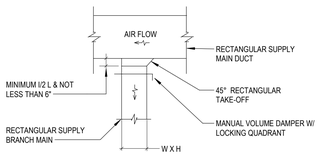
LINEAR SLOT DIFFUSER DETAIL 3
NOT TO SCALE



NOTES:

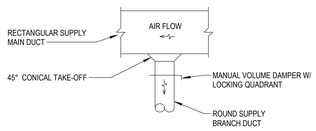
1. THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
2. ALL STANDARD RADIUS ELBOWS SHOWN ON PLANS MAY BE MADE SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

RADIUS ELBOW DUCT DETAILS 4
NOT TO SCALE



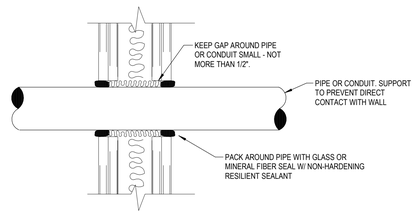
NOTE:
RETURN & EXHAUST DUCTWORK SIMILAR
EXCEPT W/ OPPOSITE AIR FLOW DIRECTION.

RECTANGULAR BRANCH DUCT TAKE-OFF DETAIL 5
NOT TO SCALE



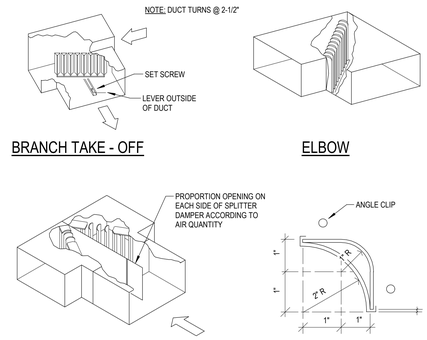
NOTE:
RETURN & EXHAUST DUCTWORK SIMILAR
EXCEPT W/ OPPOSITE AIR FLOW DIRECTION

ROUND BRANCH DUCT TAKE-OFF DETAIL 6
NOT TO SCALE

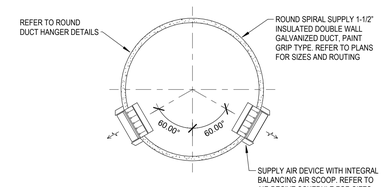


THIS DETAIL SHALL PERTAIN TO ALL MECHANICAL, HYDRONIC, AND PLUMBING WALL PENETRATIONS OF ANY WALL DESIGNATED AS AN ACOUSTICAL PARTITION.

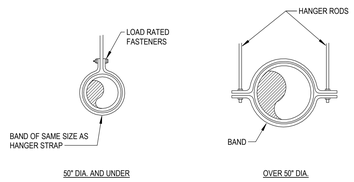
DRYWALL PIPE PENETRATION DETAIL 7
NOT TO SCALE



DUCT CONSTRUCTION DETAILS 8
NOT TO SCALE



EXPOSED SPIRAL ROUND DUCT DETAIL 9
NOT TO SCALE

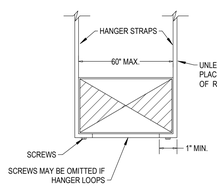


HANGER STRAPS OR RODS			
MAX. DUCT DIA.	HANGER	MAX. LOAD LBS.	MAX. SPACING FT.
26"	ONE 1" X 22 GA STRAP	260	12
36"	ONE 1" X 18 GA STRAP	420	12
50"	ONE 1" X 16 GA STRAP	700	12
60"	TWO 3/8" DIA. RODS	1320	12
84"	TWO 1/2" DIA. RODS	2500	12

NOTES:

1. TABULATED DATA FROM SMACNA ALLOWS FOR DUCT REINFORCING AND INSULATION, BUT NO EXTERNAL LOAD.

ROUND DUCT HANGER DETAILS 10
1/8" = 1'-0"



STRAP HANGERS

RECTANGULAR DUCT HANGERS MINIMUM SIZE								
MAXIMUM HALF OF DUCT PERIMETER	PAIR AT 10 FT. SPACING		PAIR AT 8 FT. SPACING		PAIR AT 5 FT. SPACING		PAIR AT 4 FT. SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2=30"	1" X 22 GA.	10 GA. (.135")	1" X 22 GA.	10 GA. (.135")	1" X 22 GA.	12 GA. (.106")	1" X 22 GA.	10 GA. (.135")
P/2=72"	1" X 18 GA.	3/8"	1" X 20 GA.	1/4"	1" X 22 GA.	1/4"	1" X 22 GA.	1/4"
P/2=96"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"	1" X 20 GA.	3/8"	1" X 22 GA.	1/4"
P/2=120"	1-1/2" X 16 GA.	1/2"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"	1" X 20 GA.	1/4"
P/2=168"	1-1/2" X 16 GA.	1/2"	1-1/2" X 16 GA.	1/2"	1" X 16 GA.	3/8"	1" X 18 GA.	3/8"
P/2=192"	NOT GIVEN	1/2"	1-1/2" X 16 GA.	1/2"	1" X 16 GA.	3/8"	1" X 16 GA.	3/8"
P/2=193" UP	SPECIAL ANALYSYS REQUIRED							

WHEN STRAPS ARE LAP JOINED USE THESE MINIMUM FASTENERS:	SINGLE HANGER MAXIMUM ALLOWABLE LOAD	
	STRAP	WIRE OR ROD (DIA.)
1" X 18, 20, 22 GA. -TWO #10 OR ONE 1/4" BOLT 1" X 16GA. - TWO 1/4" DIA. 1-1/2" X 16 GA. -TWO 3/8" DIA. PLACE FASTENERS IN SERIES, NOT SIDE BY SIDE.	1" X 22 GA. - 260 LBS 1" X 20 GA. - 320 LBS 1" X 18 GA. - 420 LBS 1" X 16 GA. - 700 LBS 1-1/2" X 16 GA. - 1100 LBS	0.106" - 80 LBS 0.135" - 120 LBS 0.162" - 160 LBS 1/4" - 270 LBS 3/8" - 680 LBS 1/2" - 1250 LBS 5/8" 2000 LBS 3/4" - 3000 LBS

NOTES:

1. REFER TO LATEST EDITION OF SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR ADDITIONAL DETAIL. DUCT HANGERS SHALL MEET THIS STANDARD
2. DIMENSIONS OTHER THAN GAGE ARE IN INCHES.
3. TABLES ALLOW FOR DUCT WEIGHT, 1 LB./SF INSULATION WEIGHT AND NORMAL REINFORCMENT AND TRAPEZE WEIGHT, BUT NO EXTERNAL LOADS!
4. STRAPS ARE GALVANIZED STEEL; OTHER MATERIALS ARE UNCOATED STEEL
5. ALLOWABLE LOADS FOR P/2 ASSUME THAT DUCTS ARE 16 GA MAXIMUM, EXCEPT THAT WHEN MAZIMUM DUCT DIMENSION (W) IS OVER 60" THEN P/2 MAXIMUM IS 1.25 W.
6. 12, 10, OR 8 GA. WIRE IS STEEL OF BLACK ANNEALED, BRIGHT BASIC, OR GALVANIZED TYPE.

RECTANGULAR DUCT HANGERS 11
NOT TO SCALE

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NO	DESCRIPTION	DATE

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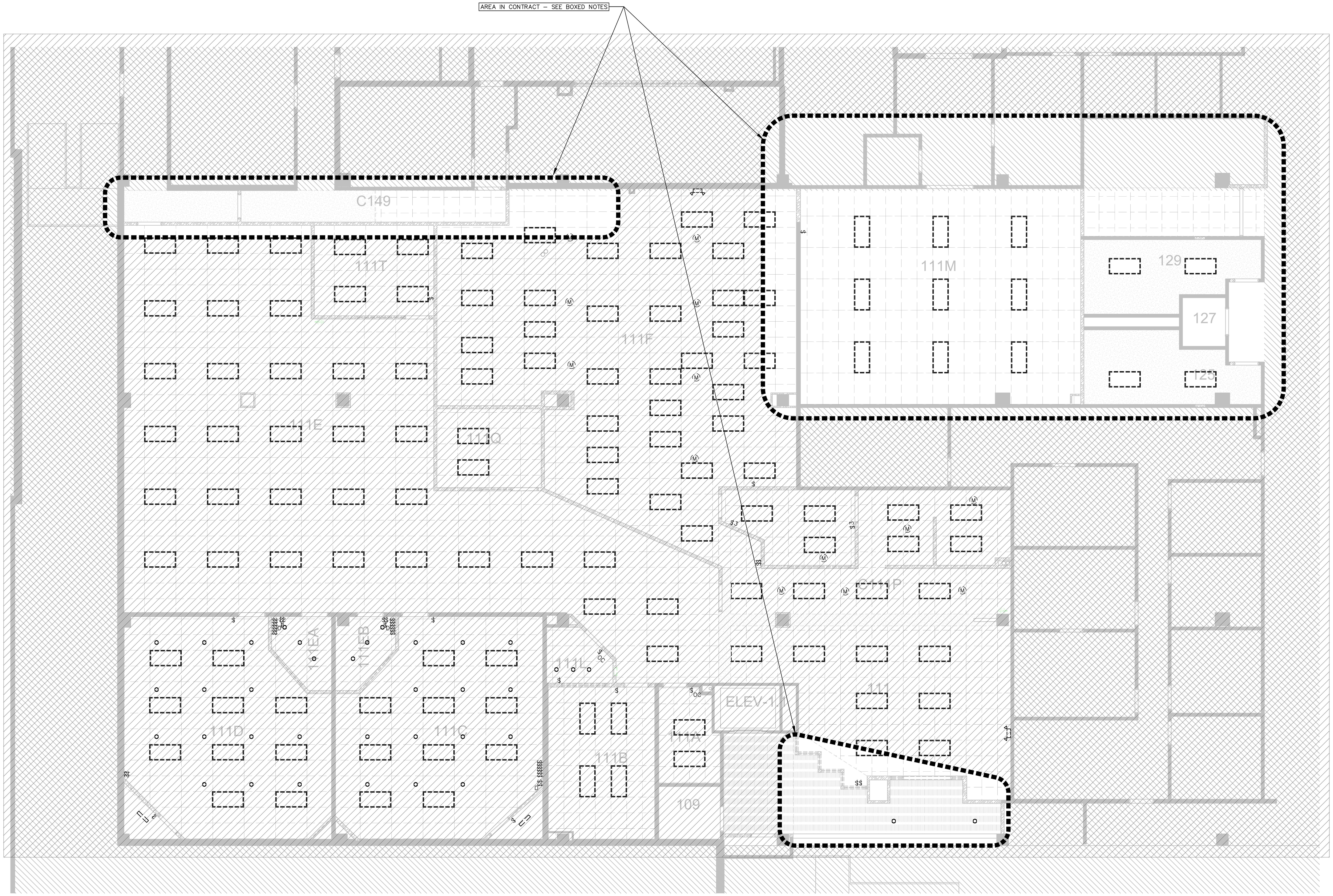
MECHANICAL DETAILS

Treanor NO. HE0569.2401.00

GENERAL NOTES

1. REMOVE LIGHTING FIXTURES, ASSOCIATED LIGHTING CONTROLS, AND BRANCH CIRCUIT CONDUIT/WIRING IN THE RENOVATION AREA (THAT ARE SHOWN BOLD AND DASHED). ITEMS SHOWN HALF–TONED ARE TO REMAIN IN SERVICE. REFER TO ARCHITECTURAL FOR EXACT LIMITS OF WORK.
2. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND PREVIOUS RECORD DRAWINGS. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK. ALL FIXTURES/CONTROLS ARE NOT NECESSARILY SHOWN.
3. RETURN ANY LED RETROFIT LAMPS TO OWNER.
4. REFER TO NEW LIGHTING PLANS FOR ADDITIONAL INFORMATION.

1. IN PREVIOUSLY ISSUED DEMOLITION PACKAGE (THAT WAS COMPRISED OF THE HATCHED AREAS SHOWN BELOW THAT ARE NOT IN CONTRACT), THE LIGHTING FIXTURES AND EXIT LIGHTING WERE LEFT SUSPENDED AND IN-USE.
2. REFER TO THIS PREVIOUSLY ISSUED DEMOLITION PACKAGE FOR ADDITIONAL INFORMATION.
3. AS PART OF THIS PROJECT'S DEMOLITION SCOPE, THESE FIXTURES, EXIT LIGHTS, ANY REMAINING CONTROLS AND ANY REMAINING ASSOCIATED CONDUIT/CONDUCTORS NEED TO BE REMOVED.



DEMOLITION PLAN - LEVEL 1 - LIGHTING
SCALE: 3/16"=1'-0"

DEMOLITION

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DEMOLITION PLAN - LEVEL 1 - LIGHTING

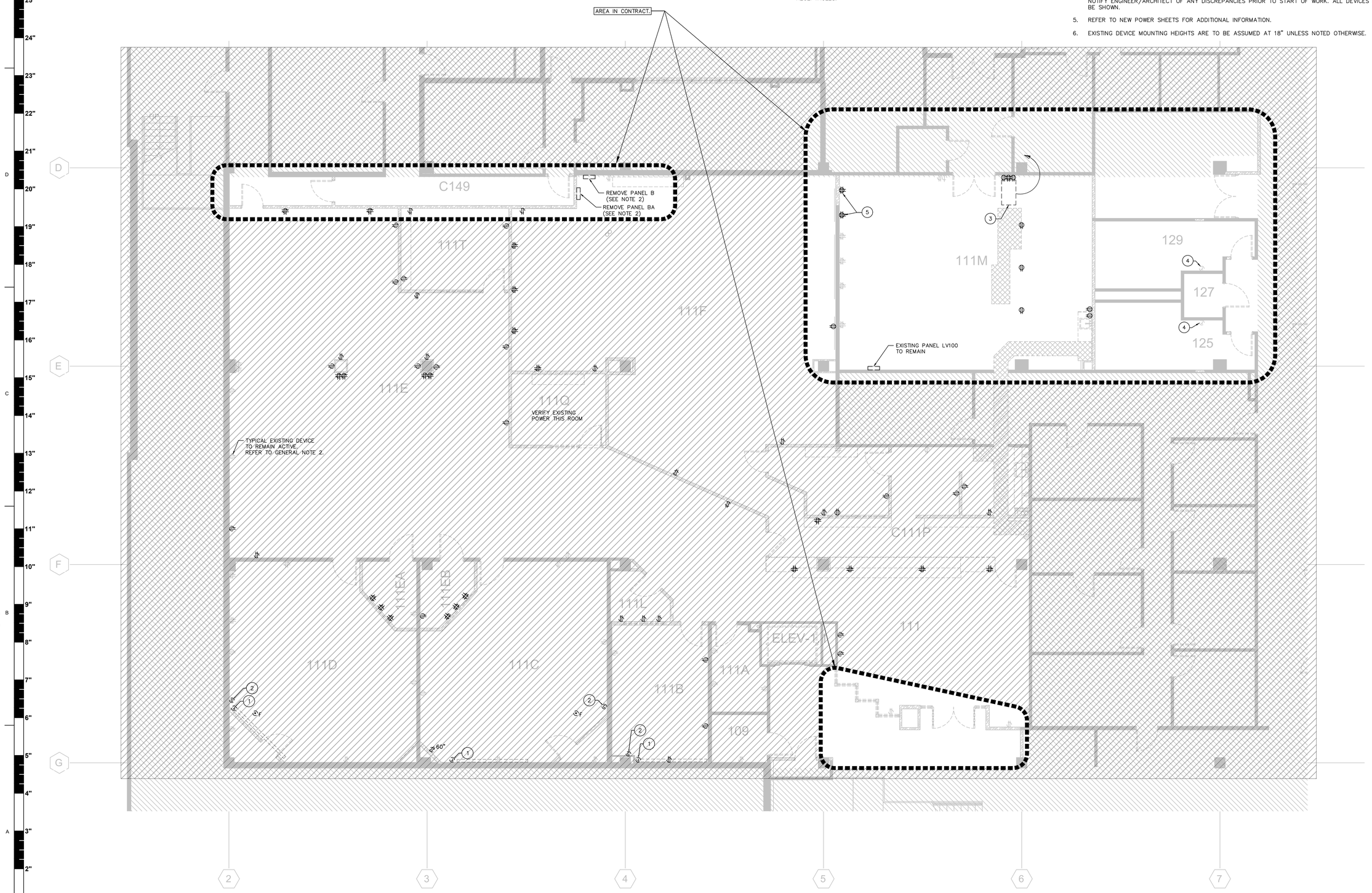
Treanor NO. HE0569.2401.00

NOTES BY SYMBOL

1. REMOVE 120V TO POWERED SCREEN
2. REMOVE SCREEN CONTROL DEVICE SINGLE GANG DEVICE BOX AND CONDUIT TO ACCESSIBLE CEILING.
3. DATA RACK WITH EMERGENCY GENERATOR POWER WILL BE RELOCATED BY UNT DATA SERVICES. REMOVE GENERATOR CIRCUIT CONDUIT AND CONDUCTORS BACK TO 1ST COUPLING ABOVE ACCESSIBLE CEILING. (SEE SHEET E201 NOTE BY SYMBOL 10 FOR NEW WORK.) COORDINATE AND PHASE ALL STEPS OF OF THIS RELOCATION WITH ARCHITECT, OWNER, AND UNT DATA SERVICES PRIOR TO ANY WORK.
4. REMOVE ELECTRICAL CIRCUIT CONNECTION, J-BOX/DEVICE TO INSTA-HOT WATER HEATER. REMOVE CONDUIT AND CONDUCTORS BACK TO SOURCE PANEL.
5. REMOVE QUAD RECEPTACLES, DEVICE BOXES CONDUIT AND CONDUCTORS WHICH COME IN CONFLICT WITH NEW EGRESS CORRIDOR. ELECTRICAL CIRCUITS WILL BE RELOCATED TO OPPOSITE CORNER OF ROOM TO RE-INSTALLED QUAD RECEPTACLES.

GENERAL NOTES

1. REMOVE ALL WIRING DEVICES (SHOWN BOLD AND DASHED) AND ASSOCIATED BRANCH CIRCUIT CONDUIT/WIRING WITHIN WALLS BEING REMOVED (SHOWN DASHED) IN THE RENOVATION AREA. REFER TO ARCHITECTURAL FOR EXACT LIMITS OF WORK.
2. ANY WIRING DEVICE AND ASSOCIATED COVER PLATE IN WALLS THAT ARE WITHIN THE AREA OF RENOVATION AND ARE TO REMAIN (SHOWN HALF-TONED), SHALL BE REPLACED WITH A NEW WIRING DEVICE AND COVER PLATE TO MATCH NEW INSTALLATIONS. INTENT IS TO REPLACE EXISTING BRANCH CIRCUITS ASSOCIATED WITH PANELS BEING REPLACED IN THEIR ENTIRETY (EXCEPT FOR LIGHTING CIRCUITS – MAY BE REUSED IF POSSIBLE). REWORK OR REPLACE EXISTING CONDUITS AS REQUIRED. INSTALL ADDITIONAL CONDUITS AS NECESSARY. EXISTING CIRCUITS MAY INCLUDE SHARED NEUTRALS, WHICH ARE NOT PERMITTED. REPLACEMENT CIRCUITS AND NEW CIRCUITS SHALL NOT UTILIZE SHARED NEUTRALS.
3. REMOVE ALL ABANDONED OR UNUSED CONDUIT/WIRING ABOVE CEILING AREA.
4. EXISTING CONDITIONS ARE BASED ON INFORMATION PROVIDED BY SITE SURVEY AND PREVIOUS RECORD DRAWINGS. HOWEVER, IT IS NOT INTENDED TO BE AN EXACT REPRESENTATION OF ACTUAL CONDITIONS. CONTRACTOR SHALL VISIT JOB SITE PRIOR TO BIDDING TO ASCERTAIN EXISTING CONDITIONS AND SHALL NOTIFY ENGINEER/ARCHITECT OF ANY DISCREPANCIES PRIOR TO START OF WORK. ALL DEVICES MAY NOT BE SHOWN.
5. REFER TO NEW POWER SHEETS FOR ADDITIONAL INFORMATION.
6. EXISTING DEVICE MOUNTING HEIGHTS ARE TO BE ASSUMED AT 18" UNLESS NOTED OTHERWISE.



N 1 DEMOLITION PLAN - LEVEL 1 - POWER

SCALE: 3/16"=1'-0"

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DEMOLITION PLAN - LEVEL 1 - POWER

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NOTES BY SYMBOL

(E) FIXTURE SHALL COME EQUIPPED WITH INTEGRAL BATTERY BACKUP FOR MINIMUM 90-MINUTE EGRESS REQUIREMENT. FIXTURE SHALL BE CONTROLLED WITH ADJACENT NON-BATTERY TYPE FIXTURES FIXTURES.

GENERAL NOTES

1. REUSE EXISTING LIGHTING CIRCUITS TO SERVE NEW LIGHTING. CONTRACTOR TO VERIFY EXISTING LIGHTING VOLTAGE AND CIRCUIT NUMBERS IN THE RENOVATED AREA PRIOR TO ANY DEMOLITION WORK.
2. ALL CONDUITS SHALL BE CONCEALED IN WALLS OR ABOVE CEILING. DO NOT INSTALL SURFACE MOUNTED CONDUIT EXCEPT IN ELECTRICAL ROOM AND IN ROOF STRUCTURE AREA OF ROOMS WITHOUT CEILINGS (SEE NOTE 2). NO CURVED PORTION OF CONDUIT SHALL EXIT WALLS. IN ROOMS WITH NO CEILINGS, CONDUITS SHALL EXIT WALLS TIGHT TO ROOF STRUCTURE.
3. VISIBLE CONDUITS IN EXPOSED CEILING AREAS (SUCH AS CORRIDORS, OPEN OFFICE AREAS, OPEN SEATING, ETC.) SHALL BE MINIMIZED SUCH THAT THE ONLY VISIBLE CONDUITS ARE THOSE SERVING LIGHTING IN SUCH AREAS. OTHER CONDUITS/CIRCUITS SHALL NOT BE ROUTED EXPOSED THROUGH OPEN CEILING SPACES. SPECIAL CARE SHALL BE TAKEN DURING INSTALLATION OF EXPOSED CONDUITS AND CONDUIT ROUTING SHALL BE HIGH AND TIGHT, ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES, IN A VISUALLY CLEAN MANNER. WHERE CONDUITS ARE INSTALLED EXPOSED IN OPEN CEILING AREAS, THEY SHALL BE PAINTED TO MATCH DUCTWORK, STRUCTURE, DUCTWORK AND OTHER TRADES. COORDINATE ANY APPLICABLE PAINT COLOR/FINISH WITH ARCHITECT AND ARCHITECTURAL RCP PRIOR TO ROUGH-IN.
4. ALL LIGHT SWITCHES AND CONTROL DEVICES SHALL BE MOUNTED PER ADA REQUIREMENTS.
5. VERIFY EXACT HEIGHT AND LOCATION OF LIGHTING FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN. REFER TO ARCHITECTURAL RCP.
6. REFER TO LIGHTING CONTROL SCHEDULE (E501) AND DETAILS FOR LIGHTING CONTROLS IN EACH ROOM TYPE.
7. PROVIDE ADDITIONAL DIMMING MODULES, LIGHTING CONTROL STATIONS, CEILING OCCUPANCY SENSORS, DAYLIGHT SENSORS, HUBS, ETC. AS REQUIRED TO FACILITATE FIXTURE CONTROL AS NOTED IN LIGHTING CONTROL SCHEDULE.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE OF ALL PARTS AND HARDWARE FOR EACH FIXTURE SPECIFIED.
9. EACH DIMMER SHALL BE COMPATIBLE WITH THE FIXTURES BEING DIMMED (0-10V, ELECTRONIC LOW VOLTAGE, ETC).
10. PROVIDE CONTINUOUS AUTOMATIC DIMMING OF FIXTURES IN DAYLIGHTING ZONES AS DEFINED AND REQUIRED IN ENERGY CODE.
11. UTILIZE EXISTING CIRCUITS SERVING LIGHTING FIXTURES BEING DEMOLISHED TO SERVE NEW LIGHTING FIXTURES. CONTRACTOR TO CONFIRM FIXTURE VOLTAGE AND CIRCUIT VOLTAGE MATCH.
12. EXIT LIGHTS SHALL BE CONNECTED TO NEAREST 120V UNSWITCHED LIGHTING CIRCUIT.

N 1 FLOOR PLAN - LEVEL 1 - LIGHTING

SCALE: 3/16"=1'-0" (0 to 12)

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FLOOR PLAN - LEVEL 1 - LIGHTING

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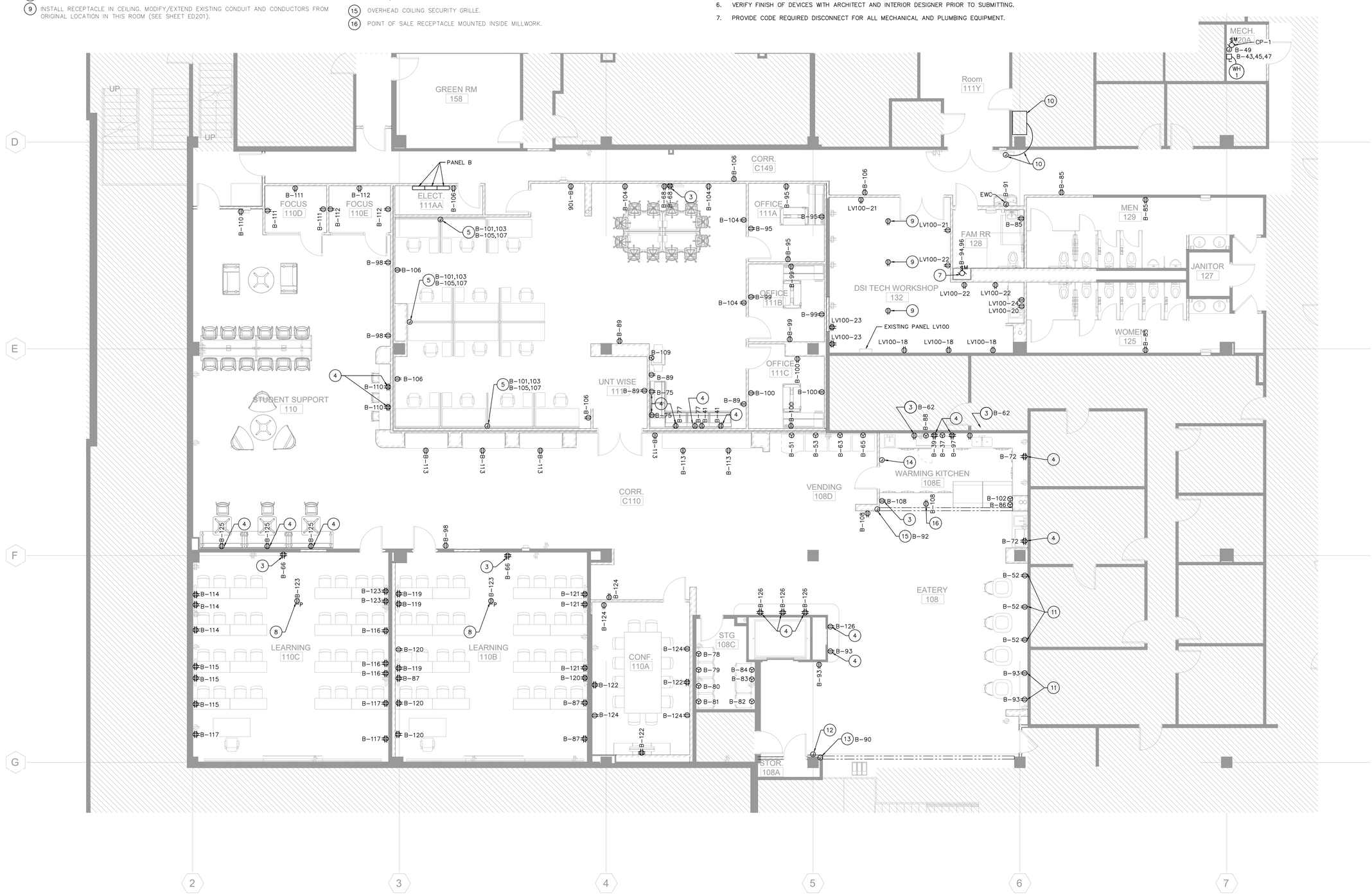
NOTES BY SYMBOL

1. NOT USED.
2. NOT USED.
3. TV/FLAT PANEL DISPLAY RECEPTACLE IN A/V BACK BOX. COORDINATE WITH A/V.
4. RECEPTACLE MOUNTED AT COUNTER TOP HEIGHT. COORDINATE WITH ARCHITECT.
5. POWERED FURNITURE FEED. (2+2, 8-WIRE STANDARD WHIP IS BASIS OF DESIGN)
6. 3KW TANKLESS WATER HEATER.
7. RESTROOM MOTORIZED LIFT (208V, 1-PHASE).
8. PROJECTOR RECEPTACLE IN A/V CEILING BOX. COORDINATE LOCATION WITH A/V.
9. INSTALL RECEPTACLE IN CEILING. MODIFY/EXTEND EXISTING CONDUIT AND CONDUCTORS FROM ORIGINAL LOCATION IN THIS ROOM (SEE SHEET ED201).
10. INSTALL EMERGENCY GENERATOR POWER FOR RELOCATED DATA RACK. MODIFY/EXTEND EXISTING CONDUIT AND CONDUCTORS FROM ORIGINAL LOCATION (SEE SHEET ED201). UNT DATA SERVICES WILL RELOCATE DATA RACK WHEN GENERATOR POWER IS READY. CONNECT GENERATOR CIRCUIT CONDUCTORS IN SAME FASHION AS ORIGINAL CONNECTION. COORDINATE AND PHASE ALL STEPS OF OF THIS RELOCATION WITH ARCHITECT, OWNER, AND UNT DATA SERVICES PRIOR TO ANY WORK.
11. MOUNT RECEPTACLES HORIZONTALLY ABOVE BACK CUSHION OF SEATING, APPROXIMATELY 42". COORDINATE WITH ARCHITECT AND "UNT GATHR"
12. OVERHEAD ROLLING FIRE GRILLE CONTROL LOCATION (J-BOX AND CONDUIT TO ABOVE CEILING).
13. OVERHEAD ROLLING FIRE GRILLE.
14. OVERHEAD COILING SECURITY GRILLE CONTROL LOCATION (J-BOX AND CONDUIT TO ABOVE CEILING).
15. OVERHEAD COILING SECURITY GRILLE.
16. POINT OF SALE RECEPTACLE MOUNTED INSIDE MILLWORK.

GENERAL NOTES

1. REFER TO DATA, SECURITY, AUDIO/VISUAL, MECHANICAL, PLUMBING, FIRE, AND ARCHITECTURAL SERIES DRAWINGS AND SPECIFICATIONS FOR EQUIPMENT INFORMATION AND ADDITIONAL ELECTRICAL WORK.
2. ALL CONDUITS SHALL BE CONCEALED IN WALLS OR ABOVE CEILING. DO NOT INSTALL SURFACE MOUNTED CONDUIT EXCEPT IN ELECTRICAL ROOM AND IN ROOF STRUCTURE AREA OF ROOMS WITHOUT CEILINGS. NO CURVED PORTION OF CONDUIT SHALL EXIT WALLS. IN ROOMS WITH NO CEILINGS, CONDUITS SHALL EXIT WALLS TIGHT TO ROOF STRUCTURE.
3. VERIFY ALL POWER AND J-BOX LOCATIONS WITH ARCHITECT AND OWNER PRIOR TO ROUGH-IN.
4. ALL FURNITURE SHALL BE FED FROM WALL. POWER POLES ARE NOT ACCEPTABLE.
5. ALL RECEPTACLES IN RESTROOMS, ON COUNTERS EQUIPPED WITH SINKS, AND ANY RECEPTACLE WITHIN 6'-0" OF A SINK (AND ANY OTHER AREAS REQUIRED BY THE NEC) SHALL BE GFI.
6. VERIFY FINISH OF DEVICES WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO SUBMITTING.
7. PROVIDE CODE REQUIRED DISCONNECT FOR ALL MECHANICAL AND PLUMBING EQUIPMENT.
8. HEIGHTS INDICATED ARE FROM FINISHED FLOOR TO CENTER OF OUTLET. DEVICES ARE AT 18" AFF IF THERE IS NO DESIGNATION.
9. REPLACE WIRING DEVICES AND COVER PLATES FOR ALL EXISTING WIRING DEVICES TO REMAIN IN THE RENOVATION AREA. ALL COVER PLATES SHALL BE LABELED WITH ASSOCIATED CIRCUIT NUMBER.
10. ANY WIRING DEVICE AND ASSOCIATED COVER PLATE IN WALLS THAT ARE WITHIN THE AREA OF RENOVATION AND ARE TO REMAIN (SHOWN HALF-TONED), SHALL BE REPLACED WITH A NEW WIRING DEVICE AND COVER PLATE TO MATCH NEW INSTALLATIONS. INTENT IS TO REPLACE EXISTING BRANCH CIRCUITS ASSOCIATED WITH PANELS BEING REPLACED IN THEIR ENTIRETY (EXCEPT FOR LIGHTING CIRCUITS - MAY BE REUSED IF POSSIBLE). REWORK OR REPLACE EXISTING CONDUITS AS REQUIRED. INSTALL ADDITIONAL CONDUITS AS NECESSARY. EXISTING CIRCUITS MAY INCLUDE SHARED NEUTRALS, WHICH ARE NOT PERMITTED. REPLACEMENT CIRCUITS AND NEW CIRCUITS SHALL NOT UTILIZE SHARED NEUTRALS.



N 1 FLOOR PLAN - LEVEL 1 - POWER

SCALE: 3/16"=1'-0"

120V CONTROL NOTES

PROVIDE 120V POWER CIRCUIT TO EACH ITEM OF EQUIPMENT AS REQUIRED. REFER TO MECHANICAL SCHEDULES, ETC. THESE CIRCUITS ARE NOT NECESSARILY IDENTIFIED BUT SHALL BE PROVIDED AS NECESSARY TO PROVIDE COMPLETE OPERATIONAL SYSTEM. TYPICAL EQUIPMENT INCLUDES HVAC CONTROL PANELS, FIRE DAMPERS, SMOKE DAMPERS, DUCT DETECTORS, FIRE ALARM CONTROL PANELS, LIGHTING CONTROLS, ETC. MAXIMUM OF (2) CONTROL CIRCUITS PER 120V, 20 AMP CIRCUIT. IDENTIFY CIRCUITS USED ON RECORD DRAWINGS.

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Date:	01/16/2025

REVISIONS

NO	DESCRIPTION	DATE

E201

FLOOR PLAN - LEVEL 1 - POWER

Treanor NO. HE0569.2401.00

PANEL B (EXISTING)

V (L-L) 208 | PHASE 3 | BUS 200 A | SECTION 1 OF 1
V (L-N) 120 | WIRE 4 | MLO | SURFACE MOUNTED 22,000 A.I.C

DESCRIPTION	LOAD (KVA)	BKR POLES	BKR AMPS	CKT #	CKT #	BKR POLES	BKR AMPS	LOAD (KVA)	DESCRIPTION
111G PLUGS		1	20	1	2	1	20		111I LIGHTS
111G AND 111H PLUGS		1	20	3	4	1	20		111J LIGHTS
111H PLUGS		1	20	5	6	1	20		111L LIGHTS
112 PLUGMOLD		1	20	7	8	1	20		112 PLUGMOLD
112 PLUGMOLD		1	20	9	10	1	20		112 PLUGMOLD
112 PLUGMOLD		1	20	11	12	1	20		112 PLUGS
112F PLUGS		1	20	13	14	1	20		112 GFCI PLUG
112D PLUGS		1	20	15	16	1	20		REFRIGERATOR
112B PLUGS		1	20	17	18	1	20		111Q, 112A, 112C PLUGS
111Q PLUGS		1	20	19	20	1	20		FRONT COMPUTERS
111Q PLUGS		1	20	21	22	1	20		112E PLUGS
112G PLUGS		1	20	23	24	1	20		111N PLUGS
112H PLUGS		1	20	25	26	1	20		112 QUADS
112 QUADS		1	20	27	28	1	20		CARRELS PLUGS
CARRELS PLUGS		1	20	29	30	1	20		112C DED. PLUG
CARRELS PLUGS		1	20	31	32	1	20		111 LIGHTS
112 NIGHT LIGHTS		1	20	33	34	1	20		111 LIGHTS
112 COPIER PLUG		1	20	35	36	1	20		111 LIGHTS
PANEL BA		3	100	37	38	1	20		111 LIGHTS
				39	40	1	20		111 LIGHTS
				41	42	1	20		111 LIGHTS

	CONN. LOAD (KVA)	N.E.C. MULT. (KVA)
LIGHTING		
MOTOR		
HEATING		
KITCHEN		
RECEPTACLE		
MISCELLANEOUS		
SPARE		
TOTAL		

_____ CONN. LOAD (AMPS)
_____ N.E.C. MULT. (AMPS)
#DIV/0! PERCENT SPARE
1.00 KITCHEN MULTIPLIER
1.00 MISC. MULTIPLIER

PANEL BA (EXISTING)

V (L-L) 208 | PHASE 3 | BUS 100 A | SECTION 1 OF 1
V (L-N) 120 | WIRE 4 | MLO | SURFACE MOUNTED 22,000 A.I.C

DESCRIPTION	LOAD (KVA)	BKR POLES	BKR AMPS	CKT #	CKT #	BKR POLES	BKR AMPS	LOAD (KVA)	DESCRIPTION
IWH-1		2	30	1	2	1	20		111 LTS
-		-	-	3	4	1	20		111 LTS
IWH-2		2	30	5	6	1	20		111 LTS
-		-	-	7	8	1	20		111 LTS
SPARE		1	20	9	10	1	20		SPARE
SPARE		1	20	11	12	1	20		111E PLUGS
GEN. BATT. CHARGER		2	20	13	14	1	20		111D PLUGS
-		-	-	15	16	1	20		111D PLUGS
GEN. JACKET HEATER		1	20	17	18	1	20		111D PLUGS
GENERATOR PLUGS		1	20	19	20	1	20		111D PLUGS
SPACE		1		21	22	1	20		111D PLUGS
SPACE		1		23	24	1			SPACE
111F PLUG		1	30	25	26	1	20		111D PLUGS
111E PLUGS		1	20	27	28	1	20		111D PLUGS
111E PLUGS		1	20	29	30	1			SPACE
111E PLUGS		1	20	31	32	1	20		111K PLUGS
SPACE		1		33	34	1	20		111K PLUGS
SPACE		1		35	36	1			SPACE
SPACE		1		37	38	1			SPACE
SPACE		1		39	40	1			SPACE
SPACE		1		41	42	1			SPACE

	CONN. LOAD (KVA)	N.E.C. MULT. (KVA)
LIGHTING		
MOTOR		
HEATING		
KITCHEN		
RECEPTACLE		
MISCELLANEOUS		
SPARE		
TOTAL		

_____ CONN. LOAD (AMPS)
_____ N.E.C. MULT. (AMPS)
#DIV/0! PERCENT SPARE
1.00 KITCHEN MULTIPLIER
1.00 MISC. MULTIPLIER

EXTEND ALL ACTIVE BRANCH CIRCUITS FROM THESE TWO PANELS TO NEW ELECTRICAL ROOM AND REPLACE THESE PANELBOARDS WITH SINGLE 3–SECTION 200A MCB PANELBOARD. EXTEND EXISTING 200A FEEDER (SOURCE IS FROM EXISTING DISTRIBUTION PANEL DP1 IN ELECTRICAL ROOM 110).

PANEL LV100 (EXISTING)

V (L-L) 208 | PHASE 3 | BUS #N/A A | SECTION 1 OF 1
V (L-N) 120 | WIRE 4 | MLO | SURFACE MOUNTED 22,000 A.I.C
#N/A

DESCRIPTION	LOAD (KVA)	BKR POLES	BKR AMPS	CKT #	CKT #	BKR POLES	BKR AMPS	LOAD (KVA)	DESCRIPTION
RECEPTACLES		1	20	1	2	1	20		RECEPTACLES
RECEPTACLES		1	20	3	4	1	20		RECEPTACLES
RECEPTACLES		1	20	5	6	1	20		RECEPTACLES
RECEPTACLES		1	20	7	8	1	20		RECEPTACLES
RECEPTACLES		1	20	9	10	1	20		RECEPTACLES
RECEPTACLES		1	20	11	12	1	20		RECEPTACLES
RECEPTACLES		1	20	13	14	1	20		RECEPTACLES
CENTER DESK		1	20	15	16	1	20		RECEPTACLES
FAIRALL DESK		1	20	17	18	1	20		SPARE
MORAN DESK		1	20	19	20	1	20		SPARE
SPARE		1	20	21	22	1	20		SPARE
SPARE		1	20	23	24	1	20		SPARE
				25	26				
				27	28				
				29	30				
				31	32				
				33	34				
				35	36				
				37	38				
				39	40				
				41	42				

	CONN. LOAD (KVA)	N.E.C. MULT. (KVA)
LIGHTING		
MOTOR		
HEATING		
KITCHEN		
RECEPTACLE		
MISCELLANEOUS		
SPARE		
TOTAL		

_____ CONN. LOAD (AMPS)
_____ N.E.C. MULT. (AMPS)
#DIV/0! PERCENT SPARE
1.00 KITCHEN MULTIPLIER
1.00 MISC. MULTIPLIER

DSI TECH LAB (ROOM 111M)

MECHANICAL EQUIPMENT SCHEDULE

MARK	DESCRIPTION	KVA/AMPS	BREAKER SIZE	VOLT/PHASE	CIRCUIT
WH-1	WATER HEATER	4500 WATTS	3P-20A	208/3	B-43,45,47
CP-1	CIRCULATION PUMP	270 Watts	1P-20A	120/1	B-49

1. COORDINATE WITH MECHANICAL. VERIFY BREAKER SIZE PER EQUIPMENT SUBMITTED.
2. PROVIDE SAFETY DISCONNECT PER NEC.

PANEL B

V (L-L) 208 | PHASE 3 | BUS 400 A | SECTION 1 OF 3
V (L-N) 120 | WIRE 4 | MCB 300 A | SURFACE MOUNTED 22,000 A.I.C

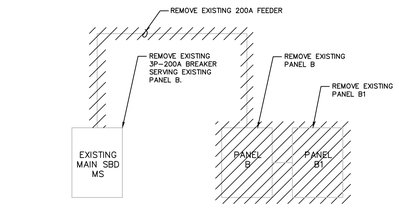
DESCRIPTION	LOAD (KVA)	BKR POLES	BKR AMPS	CKT #	CKT #	BKR POLES	BKR AMPS	LOAD (KVA)	DESCRIPTION
111G PLUGS		1	20	1	2	1	20		111I LIGHTS
111G AND 111H PLUGS		1	20	3	4	1	20		111J LIGHTS
111H PLUGS		1	20	5	6	1	20		111L LIGHTS
112 PLUGMOLD		1	20	7	8	1	20		112 PLUGMOLD
112 PLUGMOLD		1	20	9	10	1	20		112 PLUGMOLD
112 PLUGMOLD		1	20	11	12	1	20		112 PLUGS
112F PLUGS		1	20	13	14	1	20		112 GFCI PLUG
112D PLUGS		1	20	15	16	1	20		REFRIGERATOR
112B PLUGS		1	20	17	18	1	20		111Q, 112A, 112C PLUGS
111Q PLUGS		1	20	19	20	1	20		FRONT COMPUTERS
111Q PLUGS		1	20	21	22	1	20		112E PLUGS
112G PLUGS		1	20	23	24	1	20		111N PLUGS
112H PLUGS		1	20	25	26	1	20		112 QUADS
112 QUADS		1	20	27	28	1	20		CARRELS PLUGS
CARRELS PLUGS		1	20	29	30	1	20		112C DED. PLUG
CARRELS PLUGS		1	20	31	32	1	20		111 LIGHTS
112 NIGHT LIGHTS		1	20	33	34	1	20		111 LIGHTS
112 COPIER PLUG		1	20	35	36	1	20		111 LIGHTS
KITCHEN EQUIP.	1.6	1	20	37	38	1	20		111 LIGHTS
KITCHEN EQUIP.	1.6	1	20	39	40	1	20		111 LIGHTS
UNT WISE BREAK ROOM	0.5	1	20	41	42	1	20		111 LIGHTS
WATER HEATER "WH-1"	4.5	3	20	43	44	1	20		111 LTS
-		-		45	46	1	20		111 LTS
-		-		47	48	1	20		111 LTS
RECIRC. PUMP "CP-1"	0.3	1	20	49	50	1	20		111 LTS
VENDING	1.6	1	20	51	52	1	20	0.4	RECEPTACLES
VENDING	1.6	1	20	53	54	1	20		111E PLUGS
GEN. BATT. CHARGER		2	20	-	55	1	20		111D PLUGS
-		-		57	58	1	20		111D PLUGS
GEN. JACKET HEATER		1	20	59	60	1	20		111D PLUGS
GENERATOR PLUGS		1	20	61	62	1	20	1.0	KITCHEN TV
VENDING	1.6	1	20	63	64	1	20		111D PLUGS
VENDING	1.6	1	20	65	66	1	20	0.7	TV RECPTS 110A,110 B
111F PLUG		1	20	67	68	1	20	0.4	TV RECPTS 111
111E PLUGS		1	20	69	70	1	20		111D PLUGS
111E PLUGS		1	20	71	72	1	20	1.6	KITCHEN QUAD
111E PLUGS		1	20	73	74	1	20		111K PLUGS
UNT WISE BREAK ROOM	0.7	1	20	75	76	1	20		111K PLUGS
UNT WISE BREAK ROOM	0.7	1	20	77	78	1	20	1.6	LAPTOP CART CHARGER
LAPTOP CART CHARGER	1.6	1	20	79	80	1	20	1.6	LAPTOP CART CHARGER
LAPTOP CART CHARGER	1.6	1	20	81	82	1	20	1.6	LAPTOP CART CHARGER
LAPTOP CART CHARGER	1.6	1	20	83	84	1	20	1.6	LAPTOP CART CHARGER
RECEPTACLES	0.9	1	20	85	86	1	20	1.1	KITCHEN EQUIP
RECEPTACLES	1.1	1	20	87	88	1	20	1.0	KITCHEN EQUIP
RECEPTACLES	0.7	1	20	89	90	1	20	1.0	FIRE GRILLE
WATER COOL GFI-BREAKER	0.5	1	20	91	92	1	20	1.0	SECURITY GRILLE
RECEPTACLES	1.3	1	20	93	94	2	40	4.0	MOTORIZED LIFT
RECEPTACLES	0.7	1	20	95	96	-	-		
KITCHEN EQUIP.	0.7	1	20	97	98	1	20		RECEPTACLES
RECEPTACLES	0.7	1	20	99	100	1	20	0.7	RECEPTACLES
MOD. FURNITURE	1.9	2	20	101	102	1	20	0.7	KITCHEN EQUIP.
-		-	20	103	104	1	20	0.9	RECEPTACLES
MOD. FURNITURE	1.9	2	20	105	106	1	20	1.1	RECEPTACLES
-		-	20	107	108	1	20	1.3	RECEPTACLES & POS
COPY EQUIPMENT	1.5	1	20	109	110	1	20	0.7	RECEPTACLES
RECEPTACLES	0.7	1	20	111	112	1	20	0.7	RECEPTACLES
RECEPTACLES	0.7	1	20	113	114	1	20	1.1	RECEPTACLES
RECEPTACLES	1.1	1	20	115	116	1	20	1.1	RECEPTACLES
RECEPTACLES	1.1	1	20	117	118	1	20	1.1	SPARE
RECEPTACLES	1.1	1	20	119	120	1	20	1.3	RECEPTACLES
RECEPTACLES	1.1	1	20	121	122	1	20	1.1	RECEPTACLES
RECEPTACLES	1.1	1	20	123	124	1	20	1.1	RECEPTACLES
RECEPTACLES	0.7	1	20	125	126	1	20	1.3	RECEPTACLES

	CONN. LOAD (KVA)	N.E.C. MULT. (KVA)
LIGHTING		
MOTOR	4	5
HEATING	5	6
KITCHEN		
RECEPTACLE	49	29
MISCELLANEOUS	15	15
SPARE		
TOTAL	73	55

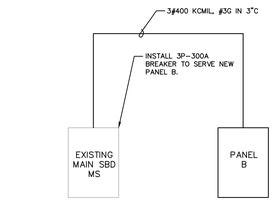
HALF TONE DESCRIPTION TEXT INDICATES EXISTING CIRCUIT CONDUCTORS EXTENDED TO THIS PANEL.
SECTION 1 RESERVED FOR EX. PANEL B RELOCATIONS. SECTION 2 RESERVED FOR EX. PANEL BA RELOCATIONS. SECTION 3 RESERVED FOR NEW CIRCUITS OF RENOVATION.

201 CONN. LOAD (AMPS)
153 N.E.C. MULT. (AMPS)
_____ PERCENT SPARE
1.00 KITCHEN MULTIPLIER
1.00 MISC. MULTIPLIER

ELECTRICAL (ROOM 111T)



1 SCHEMATIC DIAGRAM - DEMOLITION
NOT TO SCALE



2 SCHEMATIC DIAGRAM
NOT TO SCALE

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ELECTRICAL SCHEDULES AND ONE-LINES

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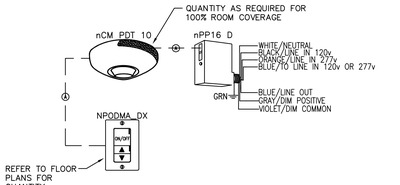
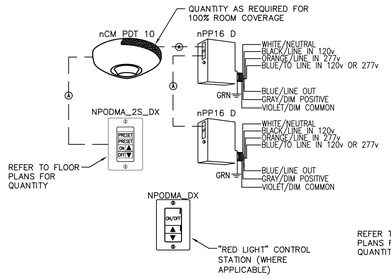


1 TYPE 1 - CONTROL DETAIL WITH 0-10V DIMMING

NOT TO SCALE

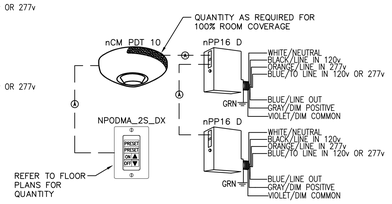
- VACANCY SENSOR
- MANUAL ON WITH RAISE/LOWER



1A TYPE 1A - MULTI-ZONE CONTROL DETAIL WITH 0-10V DIMMING & (2) PRESETS

NOT TO SCALE

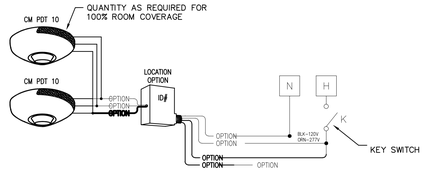
- VACANCY SENSOR
- MANUAL ON
- (2) PRESETS/SCENES WITH RAISE/LOWER



2 TYPE 2 - MULTI-ZONE CONTROL DETAIL WITH 0-10V DIMMING & (2) PRESETS

NOT TO SCALE

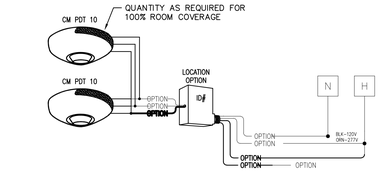
- OCCUPANCY SENSOR
- (2) PRESETS/SCENES WITH RAISE/LOWER



3A TYPE 3A - PUBLIC GANGED RESTROOM CONTROL DETAIL

NOT TO SCALE

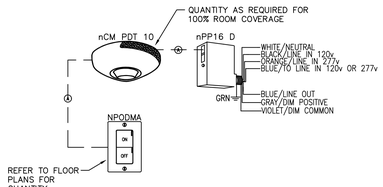
- OCCUPANCY SENSOR ON/OFF
- LOCAL KEYED SWITCH NORMALLY "ON" POSITION



3B TYPE 3B - PRIVATE RESTROOM CONTROL DETAIL

NOT TO SCALE

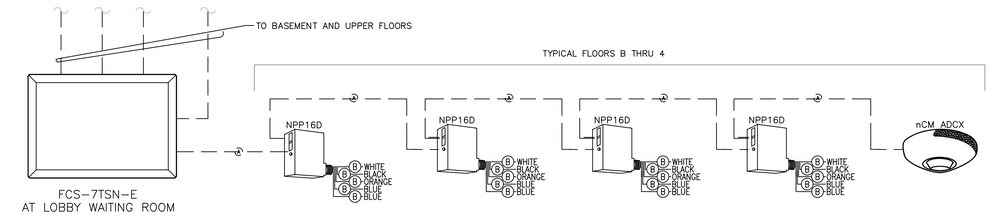
- OCCUPANCY SENSOR ON/OFF



5 TYPE 6 - CONTROL DETAIL WITH 0-10V DIMMING

NOT TO SCALE

- VACANCY SENSOR
- MANUAL ON WITH RAISE/LOWER



4 TYPICAL NETWORKED AREAS WITH TIMECLOCK CONTROL

NOT TO SCALE

—⊙— = CAT5 CABLE

NOTES:

1. PROVIDE QUANTITIES OF ALL COMPONENTS AS NECESSARY TO COMPLY WITH SPECIFIED CONTROL. PROVIDE WALL MOUNTED ENTRY STATIONS AS SHOWN ON DRAWINGS.

NETWORK LIGHTING CONTROLS

NOT TO SCALE

NOTES:

1. REFER TO LIGHTING CONTROL SCHEDULE FOR AREAS BEING CONTROLLED AND ZONING.

   PROVIDES:
   - TIMECLOCK SCHEDULE EVENTS
   - LOCAL OVERRIDE WITH DISABLE FEATURE FOR EACH ZONE
   - OVERRIDE STATIONS IN PUBLIC SPACES CAN BE DISABLED DURING CERTAIN HOURS
   - 0-10V DIMMING FOR ALL ZONES
   - DAYLIGHT ZONES AS NOTED

2. PROVIDE OVERRIDE CONTROL STATION AT ALL ENTRY/EXIT POINTS TO EACH AREA.

LIGHTING CONTROL SCHEDULE

LIGHTING CONTROL TYPE	ROOM	VACANCY SENSORS	OCCUPANCY SENSORS	POWER PACK OR ROOM CONTROLLER	MANUAL OVERRIDE	KEYED SWITCH (MAINT.)	DIMMING	PRESET SCENE OR LEVEL MEMORY	ON FUNCTION	OFF FUNCTION	SENSOR TIMEOUT DELAY (MINUTES)	ZONE 1	ZONE 2	ZONE 3	DAYLIGHT HARVESTING (WHERE REQUIRED BY IECC)
1	FOCUS ROOM	X		X	X		X	X	MANUAL 100%	AUTO/MANUAL	15	ALL			X
	OFFICE	X		X	X		X	X	MANUAL 100%	AUTO/MANUAL	15	ALL			X
	WELLNESS	X		X	X		X	X	MANUAL 100%	AUTO/MANUAL	15	ALL			X
1A	LEARNING	X		X	X		X	X	MANUAL 100%	AUTO/MANUAL	15	TEACHING ROW	ALL OTHER		X
	CONFERENCE	X		X	X		X	X	MANUAL 100%	AUTO/MANUAL	15	A8 @ TV	ALL OTHER		X
2	KITCHEN		X	X	X		X	X	AUTOMATIC 50% MANUAL 100%	AUTO/MANUAL	30	ALL			X
3A	MEN		X	X	X	X			AUTOMATIC 100%	AUTO/MANUAL	15	ALL			
	WOMEN		X	X	X	X			AUTOMATIC 100%	AUTO/MANUAL	15	ALL			
3B	FAM RR		X	X	X				AUTOMATIC 100%	AUTO/MANUAL	15	ALL			
4	CORRIDOR		X	X	X		X	X	TIME BASED PROGRAM FRESCO TOUCHSCREEN	TIME BASED PROGRAM FRESCO TOUCHSCREEN	15	ALL			X
	VENDING		X	X	X		X	X	TIME BASED PROGRAM FRESCO TOUCHSCREEN	TIME BASED PROGRAM FRESCO TOUCHSCREEN	15	ALL			X
	UNT WISE		X	X	X		X	X	TIME BASED PROGRAM FRESCO TOUCHSCREEN	TIME BASED PROGRAM FRESCO TOUCHSCREEN	15	TYPE D	TYPE A8		X
	EATERY		X	X	X		X	X	TIME BASED PROGRAM FRESCO TOUCHSCREEN	TIME BASED PROGRAM FRESCO TOUCHSCREEN	15	TYPE Q6	TYPE D	C2/C6/C8	X
	STUDENT SUPPORT		X	X	X		X	X	TIME BASED PROGRAM FRESCO TOUCHSCREEN	TIME BASED PROGRAM FRESCO TOUCHSCREEN	15	TYPE Q8	TYPE P/D/A8	TYPE F	X
5	STORAGE	X		X	X				MANUAL 100%	AUTO/MANUAL	15	ALL			
MANUAL	ELECT				X				MANUAL 100%	MANUAL		ALL			

LIGHTING CONTROL SCHEDULE NOTES:

1. CONTROL SCHEDULES INCLUDE TYPICAL ROOMS AND DO NOT INCLUDE ALL SPACES TO BE CONTROLLED BY LOW VOLTAGE LIGHTING CONTROL SYSTEMS. ALL SPACES IN BUILDING SHALL BE CONTROLLED BY LIGHTING CONTROL SYSTEMS EXCEPT ROOMS SPECIFICALLY LISTED AS "MANUAL SWITCH(ES) TYPE". INCLUDE ALL BUILDING SPACES EVEN THOUGH NOT NECESSARILY INCLUDED IN SCHEDULES.
2. "ALL" DENOTES THAT ALL FIXTURES IN ROOM SHALL BE CONTROLLED ON ZONE NOTED. WHERE DAYLIGHTING ZONE IS SHOWN ON PLANS, PROVIDE SEPARATE AUTO-CONTROLLED DAYLIGHTING ZONE.
3. VARIOUS ROOM TYPES ARE TYPICAL. REFER TO FLOOR PLANS FOR QUANTITY OF ROOMS.
4. REFER TO FLOOR PLANS FOR QUANTITY OF LOW VOLTAGE CONTROL STATIONS.
5. PROVIDE QUANTITY OF OCCUPANCY AND VACANCY SENSORS AS REQUIRED TO PROVIDE 100% ROOM COVERAGE. INCLUDE QUANTITY AND LOCATIONS WITH LIGHTING CONTROL SUBMITTAL.
6. FOR LIGHTING CONTROL STATIONS LOCATED IN WET/DAMP ENVIRONMENTS, PROVIDE WHILE-IN-USE COVER AT EACH LIGHTING CONTROL STATION LOCATION.
7. CONFIRM "OCCUPANCY" OR "VACANCY" AND "TIMEOUT DELAY" WITH OWNER PRIOR TO PREPARING SUBMITTALS.

LIGHTING CONTROLS BASIS OF DESIGN IS WIRED ACUITY nLIGHT. CONFIRM IF BUILDING HAS ANY EXISTING nLIGHT GATEWAYS, AND IF NOT, THEN PROVIDE GATEWAYS AS REQUIRED.

PROVIDE ALL REQUIRED COMPONENTS FOR NETWORKED LIGHTING CONTROL SYSTEM.

LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER AND MODEL (OR APPROVED EQUAL)	MOUNTING	LUMEN OUTPUT	COLOR TEMP. (K)	LED CRI	WATTAGE	DIMMING	VOLTAGE
A4	LINEAR, 4'-0" LONG, 2-1/2" APERTURE, FLUSH LENS, 0-10V DIMMABLE, WHITE FINISH, SATIN LENS DISTRIBUTION, STANDARD OUTPUT, SEAMLESS LENS.	PRUDENTIAL LTG. BIONICPRO3	RECESSED (LAY-IN)	885/LF	4000K	80+	7.8W/FT 4000K 80 CRI	0-10V	120V
A6	LINEAR, 6'-0" LONG, 2-1/2" APERTURE, FLUSH LENS, 0-10V DIMMABLE, WHITE FINISH, SATIN LENS DISTRIBUTION, STANDARD OUTPUT, SEAMLESS LENS.	PRUDENTIAL LTG. BIONICPRO3	RECESSED (LAY-IN)	885/LF	4000K	80+	7.8W/FT 4000K 80 CRI	0-10V	120V
A8	LINEAR, 8'-0" LONG, 2-1/2" APERTURE, FLUSH LENS, 0-10V DIMMABLE, WHITE FINISH, SATIN LENS DISTRIBUTION, STANDARD OUTPUT, SEAMLESS LENS.	PRUDENTIAL LTG. BIONICPRO3	RECESSED (LAY-IN)	885/LF	4000K	80+	7.8W/FT 4000K 80 CRI	0-10V	120V
B	2X4, LED TROFFER WITH CENTER ELEMENT, CURVED MATTE REFLECTOR, SLIM PROFILE, EXTRUDED IMPACT CURVED ACRYLIC DIFFUSER, L80/60,000, 5-YEAR WARRANTY.	ACUITY BLT w/DRWYALL KIT	RECESSED GYP	4800	4000K	80+	39.3	0-10V	120V
B1	2X4, LED TROFFER WITH CENTER ELEMENT, CURVED MATTE REFLECTOR, SLIM PROFILE, EXTRUDED IMPACT CURVED ACRYLIC DIFFUSER, L80/60,000, 5-YEAR WARRANTY.	ACUITY BLT	RECESSED GYP	4800	4000K	80+	39.3	0-10V	120V
C2	LINEAR, 2'-0" LONG, 2-1/2" APERTURE, FLUSH LENS, 0-10V DIMMABLE, WHITE FINISH, SATIN LENS DISTRIBUTION, STANDARD OUTPUT, SEAMLESS LENS.	PRUDENTIAL LTG. BIONICPRO3	RECESSED (LAY-IN)	885/LF	4000K	80+	7.8W/FT 4000K 80 CRI	0-10V	120V
C4	LINEAR, 4'-0" LONG, 3.5" APERTURE, FLUSH LENS, 0-10V DIMMABLE, WHITE FINISH, SATIN LENS DISTRIBUTION, STANDARD OUTPUT, SEAMLESS LENS.	XAL/BASO PANO	RECESSED (LAY-IN)	875/LF	4000K	80+	6W/FT 4000K 80 CRI	0-10V	120V
C6	LINEAR, 6'-0" LONG, 3.5" APERTURE, FLUSH LENS, 0-10V DIMMABLE, WHITE FINISH, SATIN LENS DISTRIBUTION, STANDARD OUTPUT, SEAMLESS LENS.	XAL/BASO PANO	RECESSED (LAY-IN)	875/LF	4000K	80+	6W/FT 4000K 80 CRI	0-10V	120V
C8	LINEAR, 8'-0" LONG, 3.5" APERTURE, FLUSH LENS, 0-10V DIMMABLE, WHITE FINISH, SATIN LENS DISTRIBUTION, STANDARD OUTPUT, SEAMLESS LENS.	XAL/BASO PANO	RECESSED (LAY-IN)	875/LF	4000K	80+	6W/FT 4000K 80 CRI	0-10V	120V
D	6" ROUND DOWNLIGHT, ADJUSTABLE LUMEN OUTPUT, SWITCHABLE CCT, CLEAR REFLECTOR, SELF-FLANGED, SEMI-SPECULAR REFLECTOR, WIDE DISTRIBUTION.	ACUITY LBR6	RECESSED (GYP)	1000/1500/2000	4000K	80+	10/15/20W	0-10V	120V
F	LINE VOLTAGE TAP ELIGHT, 180 DEGEE BEAM, PLUG AND PLAY INSTALL, WITH ADJUSTABLE AIMING	ECOSENSE TROV L35	COVE	1000/LF	4000K	80+	10W/FT	0-10V	120V
Q6	ARCHITECTURAL INDIRECT/DIRECT LINEAR PENDANT, 6'-0" LENGTH 2.5" APERTURE, MEDIUM CEILING WASH UPLIGHT	PRULITE BPRO3-LIN	SUSPENDED (CABLE)	1635/LF	4000K	80+	15.6W/FT	0-10V	120V
Q8	ARCHITECTURAL INDIRECT/DIRECT LINEAR PENDANT, 8'-0" LENGTH 2.5" APERTURE, MEDIUM CEILING WASH UPLIGHT	PRULITE BPRO3-LIN	SUSPENDED (CABLE)	1635/LF	4000K	80+	15.6W/FT	0-10V	120V
S	4'-0" STRIP, DAMP LOCATION LISTED, TOOL-LESS CHANNEL COVER, LOW GLARE DIFFUSE LENS.	ACUITY CLX	SUSPENDED (CHAIN)	7000	4000K	80+	62W	0-10V	120V
EXIT	EXIT LIGHT, BATTERY BACKUP, GREEN ON CLEAR/MIRROR, BRUSHED ALUMINUM FINISH, # FACES AND DIRECTIONAL ARROWS AS INDICATED ON DRAWINGS FOR EACH LOCATION.	LITHONIA LRP W/ ELA US12 STEM KIT AS REQUIRED	SURFACE & PENDANT		N/A	N/A	1.1W	N/A	120V

NOTES:
1. ALL LIGHTING FIXTURES SHALL BE 0-10V DIMMABLE UNLESS NOTED OTHERWISE.
2. LIGHTING SUBCONTRACTOR TO SUBMIT PHOTOMETRIC CALCULATIONS FOR ALL INTERIOR SPACES FOR APPROVAL. INCLUDE WITH LIGHTING FIXTURE SUBMITTALS.
3. ALL FIXTURE FINISHES AND COLORS SHALL BE AS SELECTED BY ARCHITECT.
4. ALL FIXTURE HEIGHTS, LENGTHS, AND MOUNTING TYPES SHALL BE AS COORDINATED WITH ARCHITECT.
5. ALL FIXTURES SHALL BE PROVIDED WITH DIMMING DRIVERS.

PROVIDE INTEGRAL EMERGENCY BATTERY BACK-UP ACCESSORY FOR FIXTURES NOTED WITH AN "E" ON THE REFLECTED CEILING PLANS.

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ELECTRICAL SCHEDULES

Treanor NO. HE0569.2401.00

ELECTRICAL SYMBOLS

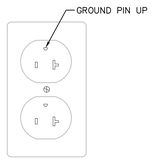
A — LIGHT FIXTURE – LETTER DENOTES TYPE	$M — MOTOR CIRCUIT SWITCH
A — STRIP LIGHT FIXTURE (SURFACE OR SUSPENDED) LETTER DENOTES TYPE	WP — WEATHERPROOF
C — LIGHT FIXTURE – LETTER DENOTES TYPE	A.F.F. — ABOVE FINISHED FLOOR
D — WALL MOUNTED LIGHT FIXTURE – LETTER DENOTES TYPE	G.F.I. — GROUND FAULT INTERRUPTER
REPLACEMENT OF EXIT LIGHT – ARROW AS INDICATED	LIGHTING CONTROL STATION (REFER TO LIGHTING CONTROL SCHEDULE)
J — JUNCTION BOX	F — POKE–THRU FLOOR BOX
CONDUIT CONCEALED IN CEILING OR WALL	$K — SINGLE POLE KEYED SWITCH
CONDUIT CONCEALED BELOW GRADE OR BELOW FLOOR – SEE SPECS	DUPLEX RECEPTACLE
CONDUIT HOMERUN	QUADRAPLEX RECEPTACLE
DISCONNECT SWITCH OR BREAKER	SPECIAL PURPOSE OUTLET
MOTOR CONTROLLER OR STARTER	
MOTOR	
TELEPHONE/DATA OUTLET (REFER TO DATA DRAWINGS)	

ALL SYMBOLS SHOWN IN SYMBOL LIST ARE NOT NECESSARILY USED.

BRANCH CIRCUIT WIRE SIZE SCHEDULE

DEVICE SERVED BY	CONDUIT/CONDUCTORS
1P-20A	2#12 & 1#12 GRD IN 3/4" C
2P-15A	2#12 & 1#12 GRD IN 3/4" C
2P-20A	2#12 & 1#12 GRD IN 3/4" C
3P-20A	3#12 & 1#12 GRD IN 3/4" C
3P-25A	3#10 & 1#10 GRD IN 3/4" C
1P-30A	2#10 & 1#10 GRD IN 3/4" C
2P-30A	2#10 & 1#10 GRD IN 3/4" C
3P-30A	3#10 & 1#10 GRD IN 3/4" C
3P-35A	3#8 & 1#10 GRD IN 3/4" C
2P-40A	2#8 & 1#10 GRD IN 3/4" C
3P-40A	3#8 & 1#10 GRD IN 3/4" C
2P-50A	2#6 & 1#10 GRD IN 1" C
3P-50A	3#6 & 1#10 GRD IN 1" C
2P-60A	2#4 & 1#10 GRD IN 1-1/4" C
3P-60A	3#4 & 1#10 GRD IN 1-1/4" C
2P-70A	2#4 & 1#8 GRD IN 1-1/4" C
3P-70A	3#4 & 1#8 GRD IN 1-1/4" C
2P-80A	2#3 & 1#8 GRD IN 1-1/4" C
3P-80A	3#3 & 1#8 GRD IN 1-1/4" C
2P-90A	2#2 & 1#8 GRD IN 1-1/2" C
3P-90A	3#2 & 1#8 GRD IN 1-1/2" C
2P-100A	2#1 & 1#8 GRD IN 1-1/2" C
3P-100A	3#1 & 1#8 GRD IN 2" C
3P-110A	3#1/0 & 1#6 GRD IN 1-1/2" C
3P-150A	3#1/0 & 1#6 GRD IN 1-1/2" C
3P-200A	3#3/0 & 1#6 GRD IN 2" C

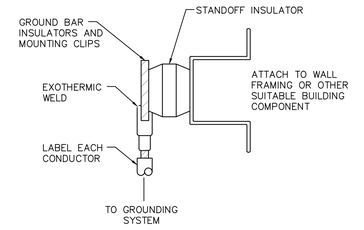
NOTE: WIRE/CONDUIT SIZE SHOWN IS MINIMUM AND SHALL BE INCREASED IF SHOWN OTHERWISE ON DRAWINGS AND AS REQUIRED BY SPECIFICATIONS. PROVIDE NEUTRAL CONDUCTOR ON 2P AND 3P CIRCUITS AS REQUIRED.



1 RECEPTACLE DETAIL
NOT TO SCALE

NOTES

1. TYPICAL FOR ALL VERTICAL RECEPTACLE LOCATIONS.
2. ALL COUNTER HEIGHT RECEPTACLES SHALL BE MOUNTED VERTICALLY UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL FOR COORDINATION.



2 GROUND BAR MOUNTING DETAIL
NOT TO SCALE

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ELECTRICAL SCHEDULES

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GENERAL NOTES

1. GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS AND OTHER REQUIREMENTS OF DIVISION 1, AS WELL AS, THE ELECTRICAL, AUDIO VISUAL, AND SECURITY PLANS AND SPECIFICATIONS, MAY APPLY TO THE WORK SPECIFIED.
2. PROVIDE ALL MATERIALS, COMPONENTS, TOOLS, AND LABOR TO COMPLETE A TELECOMMUNICATIONS INFRASTRUCTURE AS SHOWN IN THE STRUCTURED CABLING SYSTEM DOCUMENTS, CONTRACTS AND DRAWINGS.
3. CAREFULLY EXAMINE THE SITE TO DETERMINE THE EXTENT OF WORK AND CONDITION UNDER WHICH IT WILL BE DONE.
4. REVIEW AND VERIFY CONTRACT DOCUMENTS IN RELATION TO FIELD CONDITIONS TO VERIFY ACCURACY, CONFIRMING WITH OWNER, OR THEIR DESIGNATED REPRESENTATIVE, THAT RELATED WORK HAS BEEN COMPLETED PRIOR TO PROCEEDING WITH INSTALLATION.
5. BRING DISCREPANCIES BETWEEN DESIGN DOCUMENTS AND ACTUAL FIELD CONDITIONS TO THE IMMEDIATE ATTENTION OF OWNER, OR THEIR DESIGNATED REPRESENTATIVE FOR CLARIFICATION.
6. REFER TO TECHNOLOGY, AUDIO VISUAL AND SECURITY CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS AS A WHOLE IN THE BIDDING AND INSTALLATION OF THIS PROJECT.
7. NOTE AND REPORT TO GC, IF THE COMMUNICATION SYSTEM PATHWAY DO NOT COMPLY WITH COMMUNICATIONS SPECIFICATIONS AND DRAWINGS PRIOR TO INSTALLING CABLE.
8. TAKE NECESSARY MEANS TO ASSURE COMMUNICATION SYSTEM COMPONENTS ARE PROTECTED FROM MECHANICAL DAMAGE BEFORE, DURING AND AFTER CONSTRUCTION.
9. REFERENCE DIVISION 27 SPECIFICATIONS FOR ITEMIZED PRICING REQUIREMENTS.
10. ALL COMPONENTS AND DEVICES SHOWN ON THESE DRAWINGS ARE FOR APPROXIMATE LOCATION AND POSITIONING ONLY. VERIFY EXACT LOCATIONS WITH THE OWNER OR G.C. PRIOR TO INSTALLATION.
11. ADHERE TO ALL TELECOMMUNICATIONS CABLING STANDARDS SET FOURTH IN THE ANSI-TIA 568-C STANDARDS.

COMMUNICATIONS PATHWAY

1. VERIFY CABLE J-HOOKS PATHWAY ROUTING PRIOR TO INSTALLATION OF HORIZONTAL CABLES TO ENSURE ABLE PATHWAY DOES NOT CAUSE CABLE LENGTHS TO EXCEED MAXIMUM DISTANCE.
2. BACK BOXES INSTALLED FOR COMMUNICATIONS DATA AND VOICE WIRING TERMINATION SHALL BE 4 11/16"X4 11/16"X2.5" DEEP BOXES TO ALLOW FOR THE REQUIRED WORKING CLEARANCE OF THE UTP CABLE.
3. INSTALL SINGLE GANG MUD RINGS ON ALL COMMUNICATIONS WALL BOXES.
4. CONDUITS TO COMMUNICATIONS WALL BOXES SHALL BE MINIMUM OF 1". DIAMETER AND SHALL BE COMPLETE WITH NYLON PULL STRING.
5. PROVIDE CABLE J-HOOKS RATED FOR SUPPORTING SPECIFIED CATEGORY DATA CABLING THAT IS NOT IN CONDUIT. COORDINATE WITH GC ON CABLE PATHS PRIOR TO INSTALLATION OF CABLING.
6. DO NOT EXCEED MANUFACTURERS OR NEC MAXIMUM RECOMMENDED FILL RATIO FOR ANY GIVEN PATHWAY.
7. SUPPLY SOLUTIONS AND SHOP DRAWINGS SUBMITTALS FOR CONDUIT SEALING MATERIALS AND SYSTEMS. ENSURE SYSTEMS ARE INSTALLED PER MANUFACTURERS UL LISTING .
8. PROPERLY FIRE STOP ALL TELECOM PATHWAY CONDUITS AND UNUSED "TELECOM INTENDED USE CONDUITS" PRIOR TO SUBSTANTIAL COMPLETION.
9. INSTALL CONDUIT RUNS WITH NO MORE THAN TWO (2) 90 DEG. BENDS AND NOT EXCEED 100 FEET. IF THESE CONDITIONS CAN NOT BE MET. J-BOX MUST BE PLACED IN THE RUN, WITH THE ABILITY TO ACCESS BOX THROUGH THE CEILING.
10. CONDUITS SHALL HAVE CONNECTORS, PROTECTIVE BUSHINGS, AND PULL STRINGS AND SHALL BE GROUNDED.
11. COORDINATE WITH ARCHITECT AND OWNER ON ENTRY, PATHWAYS AND OUTLET BOX PLACEMENT IN MODULAR FURNITURE AND CUSTOM MILLWORK.
12. ADHERE TO COMMERCIAL BUILDING STANDARD FOR TELECOMMUNICATIONS PATHWAYS SET FOURTH IN ANSI-TIA 569-E STANDARD.
13. PROVIDE CONDUIT FROM EACH OUTLET BOX TO ACCESSIBLE CEILING. OUTLETS IN OPEN OR NON-ACCESSIBLE CEILINGS SHALL HAVE CONDUIT ROUTED TO THE NEAREST ACCESSIBLE CEILING OR CORRIDOR TRAY PATHWAY.
14. CONDUIT RUNS THAT HAVE AN INTERNAL DIAMETER OF 2" OR LESS SHALL HAVE A BEND RADIUS SIX (6) TIMES THE INTERNAL CONDUIT RADIUS. IF CONDUIT RUNS HAS AN INTERNAL DIAMETER OF 2" OR MORE IT SHALL HAVE A BEND RADIUS TEN (10) TIMES THE INTERNAL CONDUIT RADIUS.
15. PROVIDE LONG RADIUS BENDS ON ALL 90 DEGREE TURNS. UTILIZE 45-DEGREE BENDS WHEN POSSIBLE AND PROVIDE ADDITIONAL PULL BOXES AS NEEDED TO ELIMINATE STRESS ON CABLE.
16. CONDUIT "SLEEVES" ARE REQUIRED FOR CABLE INGRESS/EGRESS IN ROOMS WHOSE WALLS EXTEND TO DECK (I.E FIREWALL, SOUND ABSORPTION, ETC) SLEEVE TO BE A MINIMUM 2" TO MAINTAIN A 30% FILL RATIO. COORDINATE SLEEVE SIZE REQUIREMENTS BASED ON CABLE TYPE BEING INSTALLED.

COMMUNICATION ROOMS

1. RACK ELEVATIONS AND NETWORK EQUIPMENT ARE SHOWN FOR COORDINATION AND INFORMATIONAL PURPOSES ONLY.
2. INSTALL 8'H X 4'W X ¾' T GRADE ACX PAINTED FIRE RATED PLYWOOD ON DESIGNATED WALLS OF THE TELECOM ROOMS. PLYWOOD SHALL BE PAINTED TWO COATS OF FIRE RETARDANT WHITE PAINT, LEAVING FIRE RATED STAMP EXPOSED.
3. GRAPHIC REPRESENTATION OF PATCH PANELS AND TERMINAL BLOCKS DO NOT REPRESENT EXACT QUANTITIES. CONTRACTOR SHALL PROVIDE SUFFICIENT QUANTITIES FOR ALL CABLING, PLUS 25%.
4. FURNISH AND INSTALL VELCRO CABLE SUPPORT, CABLE MANAGEMENT AND ASSOCIATED HARDWARE WITHIN TELECOMMUNICATIONS ROOMS.
5. PROVIDE FLOOR PLAN AS-BUILT ON "D" SIZE PAPER, LAMINATED WITH PLASTIC AND MOUNTED BEHIND CUT PLEXI-GLASS ON THE WALL IN EACH TELECOM ROOM. REFERENCE TELECOM ROOM ELEVATIONS FOR AS-BUILT PLACEMENT.

COMMUNICATIONS CABLE

1. CABLING CONTRACTOR MUST BE A CERTIFIED INSTALLER AND BE ABLE TO PROVIDE MANUFACTURER WARRANTY.
2. TERMINATE ALL CATEGORY JACK INSERTS TO 568-A WIRING SCHEME.
3. HORIZONTAL DATA CABLING SHALL CONSIST OF PLENUM 4PR UTP CABLES TO EACH DATA OUTLET. REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.
4. WIRELESS OUTLET LOCATIONS SHALL CONSIST OF ONE (1) PLENUM 4PR UTP CABLE TO EACH ACCESS POINT. REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.
5. NO HORIZONTAL CABLE SHALL BE LONGER THAN 100 METERS. IF THE CONTRACTOR BELIEVES ANY STATION CABLE WILL EXCEED THE 100 METERS (295 FEET) LIMIT WRITTEN APPROVAL FROM THE OWNER'S ARCHITECT/ENGINEER WILL BE REQUIRED PRIOR TO INSTALLATION.
6. TERMINATE HORIZONTAL DATA CABLING ON RACK MOUNTED PATCH PANELS. LOCATED IN TELECOM ROOM, AND ON JACK INSERTS AT THE OUTLET.
7. PROVIDE LACING BARS TO RESTRAIN CABLES AND TO PREVENT STRAINING CONNECTIONS.
8. COMMUNICATIONS CABLE SHALL NOT BE PAINTED.
9. PROVIDE ALL NECESSARY MEANS TO PROTECT ALL DATA/VOICE/FIBER CABLING AND JACKS/PORTS FROM MECHANICAL DAMAGE AND DUST DURING CONSTRUCTION. PROVIDE PAINTERS TAPE OVER PATCH PANEL PORTS, CAPS ON FIBER BULK HEADS AND BAG OUTLET JACK INSERT TERMINATIONS DURING CONSTRUCTION TO MINIMIZE DUST ON CONTACTS.
10. PROVIDE SELF-ADHESIVE VINYL OR VINYL-CLOTH WRAPAROUND TAPE MARKERS, MACHINE PRINTED WITH ALPHA NUMERIC CABLE DESIGNATIONS PER ANSI/TIA-607B STANDARDS WITH APPROVAL FROM OWNER IT.
11. PROVIDE PROPER RATED CABLE TYPE PER INSTALLATION TYPE: OSP, RISER OR PLENUM.
12. ALL CABLING INSTALLED UNDERGROUND IN CONCRETE SLABS, IN DIRECT CONTACT WITH THE EARTH, LOCATIONS SUBJECT TO SATURATION WITH LIQUIDS AND UNPROTECTED LOCATIONS EXPOSED TO WEATHER SHALL BE CONSTRUCTED WITH APPROPRIATE WEATHER PROOFING COMPOUNDS AND SHEATHING. PROVIDE INDOOR / OUTDOOR CABLING FOR FIBER OPTIC CABLING EXITING THE BUILDING
13. PROVIDE ONE (1) 4-PR UTP CABLE TO EACH IP CAMERA. COORDINATE WITH SECURITY CONTRACTOR AND TY-DRAWINGS ON CAMERA CABLING INSTALLATION. REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.
14. PROVIDE TWO CATEGORY UTP PATCH CABLES, FOR EACH DATA OUTLET.
15. CONNECT WIRING IN A STRAIGHT PATTERN (NOT TURNED OVER) FROM ORIGINATION TO TERMINATION POINT. CABLE PAIRS SHALL BE ZIP TIED AND EACH CABLE LABELED ON THE BACK OF EACH PATCH PANEL.
16. TWISTED PAIRS MUST REMAIN TWISTED TO WITHIN 1/4" OF CONNECTOR. THIS IS REQUIRED FOR HIGH-SPEED DATA NETWORKS.
17. DO NOT INSTALL WIRING NEAR FLUORESCENT LIGHTING, HIGH-VOLTAGE SOURCES, ELECTRICAL MOTORS, OR OTHER SOURCES OF INTERFERENCE, REFERENCE SPECIFICATIONS FOR SEPARATION REQUIREMENTS.
18. SPLICES WITHIN HORIZONTAL CABLE RUNS ARE NOT ACCEPTABLE.
19. ALL CABLES BEING RUN FOR HORIZONTAL DISTRIBUTION WITHIN THE PLENUM AREAS MUST BE BUNDLED TOGETHER NEATLY AND UNTANGLED, WITH CABLE TIES EVERY 12 FEET. CABLING SHALL LIE FLAT WITHIN AND BE SUPPORTED BY CABLE TRAYS, AND/OR STRUCTURES ATTACHED DIRECTLY TO THE BUILDING STRUCTURE/UPPER DECKING IN THE PLENUM AREAS OR CRAWL SPACES.
20. ADHERE TO MANUFACTURERS' REQUIREMENTS FOR BENDING RADIUS AND PULLING TENSIONS FOR ALL CABLE RUN
21. OUTLET FACEPLATES MUST BE LABELED WITH THE JACK NUMBERS OF PATCH PANEL PORTS AND MDF/IDF ROOM NUMBERS PER ANSI/TIA-607B AND OWNER STANDARDS.

ELECTRICAL

1. FOR SPECIFIC POWER AND RECEPTACLE REQUIREMENTS IN THE PROJECT REFERENCE ELECTRICAL SPECIFICATIONS AND DRAWINGS AND VERIFY WITH COMMUNICATION SPECIFICATIONS AND DRAWINGS. REPORT TO GC DISCREPANCIES PRIOR TO PURCHASE OR INSTALLATION.
2. ELECTRICAL CONTRACTOR SHALL INSTALL NORMAL AND GENERATOR BACK-UP POWER AS REQUIRED.

GROUNDING & BONDING

1. BOND ALL METAL RACKS, FRAMES, CABINETS AND MISCELLANEOUS EQUIPMENT ENCLOSURES TOGETHER USING GREEN INSULATED COPPER WIRE SO THAT ALL EQUIPMENT AND STRUCTURED CABLING RACKS ARE AT THE SAME GROUND POTENTIAL. A VOLT-O-METER (VOM) MEASUREMENT BETWEEN ANY TWO POINTS ON METAL RACKS AND EQUIPMENT ENCLOSURES IN THE TELECOMMUNICATIONS ROOMS SHALL BE LESS THAN 1.25 VOLTS DC OR AC POTENTIAL.
2. BOND TOGETHER ALL GROUNDS TO FORM A SINGLE GROUNDING ELECTRODE SYSTEM AS REQUIRED IN ARTICLE 250 OF NFPA 70 - NATIONAL ELECTRICAL CODE.
3. PREPARE SURFACES TO PROVIDE A PROPER PATH TO GROUND. ANY SURFACE TO BE GROUNDED MUST BE FREE OF PAINT OR OTHER COATING THAT MIGHT PREVENT AN EFFECTIVE GROUND. PAINT SHOULD BE SCRAPED AWAY UNTIL METALLIC SURFACE HAS BEEN EXPOSED BEFORE THE ATTACHMENT OF GROUNDING OR BONDING WIRE.
4. INSTALL MANUFACTURER PROVIDED STAR WASHERS PER PANEL INSTALLED IN ORDER FOR PANELS TO BE BONDED TO RACK. ONLY ONE (1) STAR WASHER IS REQUIRED PER PANEL.
5. ADHERE TO ALL GROUNDING AND BONDING REQUIREMENTS SET FOURTH IN THE ANSI-J-STD-607-D COMMERCIAL GROUNDING AND BONDING STANDARDS.
6. TERMINATE ALL INCOMING/OUTGOING OSP VOICE CATEGORY BACKBONE CABLES ON WALL FIELD WITH BONDED PRIMARY PROTECTION BLOCKS AND SOLID STATE MODULES.
7. TERMINATE ALL INCOMING/OUTGOING OSP DATA OR POE UTILIZED CATEGORY CABLES ON WALL FIELD ON BONDED IN-LINE SURGE PROTECTOR RATED AT PROPER CLAMPING VOLTAGE FOR THE SPECIFIED DATA CABLING AND POE APPLICATION.

TELECOM SYMBOLS LEGEND

△ xD	WALL MOUNTED DATA OUTLET (D), MOUNT AT +18" AFF UNLESS NOTED OTHERWISE. (x) = QUANTITY OF CABLES PER LOCATION UNLESS NOTED OTHERWISE. REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.
◬ xD	CEILING MOUNTED DATA OUTLET (D). (x) = QUANTITY OF CABLES PER LOCATION. REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.
◬ WAP	CEILING MOUNTED WIRELESS ACCESS POINT DATA OUTLET (WAP), ONE (1) CATEGORY CABLE PER LOCATION. REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.
◬ CAM	CEILING MOUNTED DATA OUTLET FOR IP SECURITY CAMERA (CAM), ONE (1) CATEGORY CABLE PER LOCATION. REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.
△ CAM	WALL MOUNTED DATA OUTLET FOR IP SECURITY CAMERA (CAM), ONE (1) CATEGORY CABLE PER LOCATION. REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.
△ xD-TV	DATA OUTLET FOR WALL MOUNTED AV SYSTEM DISPLAY (FLAT PANEL, INTERACTIVE TOUCH, DIGITAL SIGNAGE, WAYFINDING, ETC.) (x) = QUANTITY OF CABLE(S) PER LOCATION. TERMINATE TO IN-WALL STORAGE BACK BOX (PROVIDED AND INSTALLED BY OTHERS). REFER TO AV DRAWINGS FOR AV DEVICE LOCATION(S) AND INSTALLATION DETAIL(S). REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.
◬ xD-AV	DATA OUTLET FOR CEILING MOUNTED AV SYSTEM DEVICE(S). (x) = QUANTITY OF DATA CABLE(S) PER LOCATION. TERMINATE TO PLENUM RATED SURFACE MOUNT BOX IN ACCESSIBLE CEILING AND PROVIDE PATCH CABLE TO AV DEVICE. REFER TO AV DRAWINGS FOR AV DEVICE LOCATION(S) AND INSTALLATION DETAIL(S). REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.
◬ xD-CB	DATA OUTLET FOR CEILING BOX & PROJECTOR MOUNT (x) = QUANTITY OF DATA CABLE(S) PER LOCATION. TERMINATE TO PLENUM RATED SURFACE MOUNT BOX IN ACCESSIBLE CEILING AND PROVIDE PATCH CABLE TO AV DEVICE. REFER TO AV DRAWINGS FOR AV DEVICE LOCATION(S) AND INSTALLATION DETAIL(S). REFER TO 271500 SPECIFICATION SECTION FOR CABLE AND OUTLET TYPE.

TELECOM ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
AWG	AMERICAN WIRE GAUGE
CATV	COMMUNITY ANTENNA TELEVISION
CON	CONDUCTOR
DB	DECIBEL
DEMARC	DEMARCATION POINT
EMT	ELECTRIC METALLIC TUBING
ER	EQUIPMENT ROOM
GC	GENERAL CONTRACTOR
HH	HANDHOLE
IDF	INTERMEDIATE DISTRIBUTION FRAME
IO	INFORMATION OUTLET
IRC	INTERMEDIATE RIGID CONDUIT
ISP	INTERNET SERVICE PROVIDER
LAN	LOCAL AREA NETWORK
MDF	MAIN DISTRIBUTION FRAME
MH	MAINTENANCE HOLE
MM	MULTIMODE
OCP	OUTSIDE CABLE PLANT
OFOI	OWNER FURNISHED OWNER INSTALLED
OTDR	OPTICAL TIME DOMAIN REFLECTOMETER
PB	PULL BOX
PBB	PRIMARY BONDING BUSBAR
PBX	PRIVATE BRANCH EXCHANGE
PR	PAIR
PVC	POLYVINYL CHLORIDE
RBB	RACK BONDING BUSBAR
RF	RADIO FREQUENCY
RMC	RIGID METAL CONDUIT
SBB	SECONDARY BONDING BUSBAR
SM	SINGLEMODE
SP	SERVICE PROVIDER
STP	SHIELDED TWISTED PAIR
TB	TERMINAL BLOCK
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TBC	TELECOMMUNICATIONS BONDING CONDUCTOR
TR	TELECOM ROOM
TS	TRADE SIZE
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
WAP	WIRELESS ACCESS POINT

TELECOM SHEET LIST

TELECOM RESPONSIBILITY MATRIX

ITEM	GC	IT CONTRACTOR	OWNER
NETWORK CABLING TO IDF'S		X	
CONDUITS	X		
J-BOXES	X		
POWER > 24VDC	X		
DISPLAY BACK BOXES / BACKING	X		
ACCESS PANELS	X		
IDF / MDF BUILDOUT (RACKS, CABLE TRAY, PATCH PANELS, PATCH CORDS, GROUNDING)		X	
OUTSIDE PLANT CONDUIT PATHWAY	X		
DATA SWITCHES			OFOI
WIRELESS ACCESS POINT			OFOI
J-HOOK PATHWAY FOR DATA CABLING		X	
PHONES			OFOI
COMPUTERS			OFOI

Note:
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TELECOM INDEX

Treanor NO. HE0569.2401.00

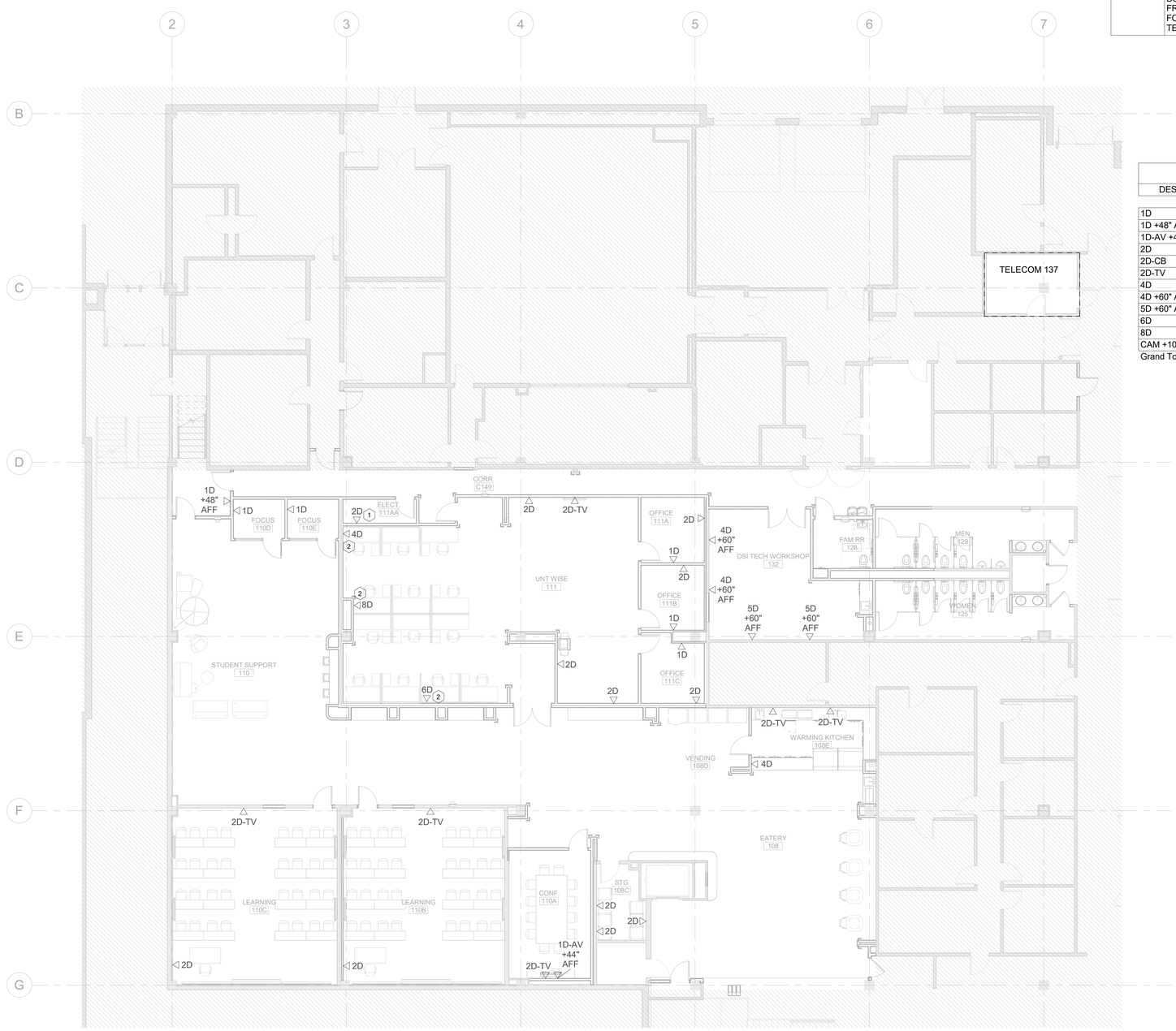
LEGEND

NOT IN SCOPE

GENERAL NOTES

1. DATA ROUTED VIA EXISTING CABLE TRAY OR J-HOOK TO NEAREST TELECOMMUNICATIONS CLOSET. PROVIDE ADDITIONAL PATCH PANELS AT RACK AS NEEDED.

Keynote Legend	
Key Value	Keynote Text
1	COORDINATE TERMINATION LOCATION WITH ELECTRICAL CONTRACTOR.
2	PROVIDE 1.5" CONDUIT TO DOUBLE GANG BOX 18" AFF, WITH 1.5" FLEXIBLE CONDUIT FROM BOX COVER TO FURNITURE PANEL FOR ROUTING OF DATA CABLESTO TERMINATE AT WORKSTATIONS.



DATA DEVICE SCHEDULE - LEVEL 1		
DESCRIPTION	QUANTITY	DATA COUNT
1D	5	5
1D +48" AFF	1	1
1D-AV +44" AFF	1	1
2D	12	24
2D-CB	2	4
2D-TV	6	12
4D	2	8
4D +60" AFF	2	8
5D +60" AFF	2	10
6D	1	6
8D	1	8
CAM +102" AFF	4	4
Grand Total:		91

TELECOM PLAN - LEVEL 1

1/8" = 1'-0"

1

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TELECOM PLAN - LEVEL 1

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LEGEND

NOT IN SCOPE

GENERAL NOTES

1. DATA ROUTED VIA EXISTING CABLE TRAY OR J-HOOK TO NEAREST TELECOMMUNICATIONS CLOSET. PROVIDE ADDITIONAL PATCH PANELS AT RACK AS NEEDED.

DATA DEVICE SCHEDULE - RCP		
DESCRIPTION	QUANTITY	DATA COUNT
1D	5	5
1D +48" AFF	1	1
1D-AV	5	5
1D-AV +96" AFF	2	2
CAM	4	4
CAM +102" AFF	4	4
WAP	8	8
Grand Total:		29

TELECOM RCP - LEVEL 1

1/8" = 1'-0"

1

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TELECOM RCP - LEVEL 1

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GENERAL NOTES

1. WRAP AROUND CABLE LABEL TO BE INSTALLED AT BOTH THE WORK AREA OUTLET AND CLOSET ENDS OF ALL CABLES. INSTALL LABEL 1" FROM THE END OF THE CABLE JACKET AT BOTH ENDS.
2. CABLE LABELING SHALL BE MACHINE GENERATED AND NOT LESS THAN .125" IN HEIGHT.

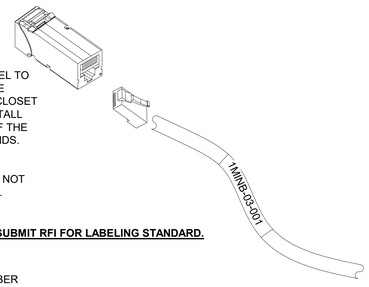
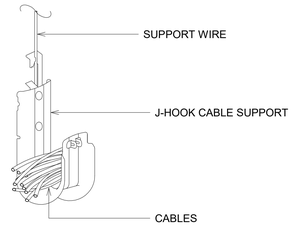


PLATE LABELING DETAIL - EX: SUBMIT RFI FOR LABELING STANDARD.

CABLE LABLE DETAIL 1
NTS

NOTE:

- J-HOOKS MAY BE USED IN ABOVE LAY-IN TILE CEILINGS. SPACE J-HOOK'S EVERY 3FT - 5FT.



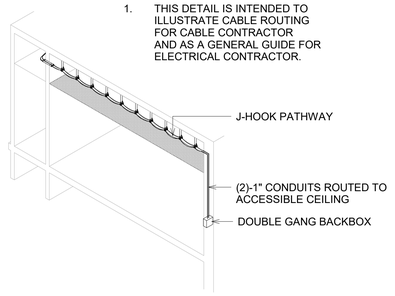
J-HOOK DETAIL 2
NTS

GENERAL NOTES:

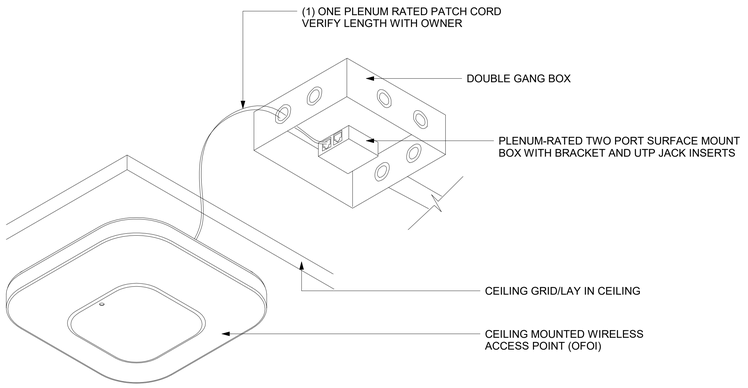
1. A MINIMUM OF ONE CONTINUOUS RUN OF CONDUIT SHALL BE PLACED FROM I/O TO ACCESSIBLE CEILING SPACE.
2. ALL CONDUIT SHALL BE MIN: 1"Ø, HAVE PROTECTIVE BUSHING, AND PULL STRINGS.
3. NO CABLE SHALL BE PLACED IN CONDUIT THAT DOES NOT HAVE PROTECTIVE INSULATING BUSHING PRESENT.
4. CONTRACTOR SHALL REPORT ANY DEVIATIONS FROM THIS OR ANY STANDARD TO THE GENERAL CONTRACTOR FOR REFIT BY RESPONSIBLE CONTRACTOR.

NOTES:

1. THIS DETAIL IS INTENDED TO ILLUSTRATE CABLE ROUTING FOR CABLE CONTRACTOR AND AS A GENERAL GUIDE FOR ELECTRICAL CONTRACTOR.



J-HOOK PATHWAY DETAIL 3
NTS



WIRELESS ACCESS POINT (WAP) ROUGH-IN 4
NTS

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TELECOM DETAILS

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AUDIOVISUAL SYMBOL LEGEND

SYMBOL	TAG	DESCRIPTION	POWER REQUIREMENTS	DATA REQUIREMENTS	CONDUIT REQUIREMENTS	NOTES
	AV2	AUDIOVISUAL WALL PLATE (INPUT/OUTPUT)	CONVIENIENCE POWER WITHIN 12"	REFER TO TELECOM PLANS.	2-GANG BOX WITH (2) 1-1/4" CONDUITS STUBBING UP TO ACCESSIBLE CEILING.	INSTALL AT 1' - 6" AFF TO CENTER OF BOX UNLESS OTHERWISE NOTED.
	AV4	AUDIOVISUAL WALL PLATE (INPUT/OUTPUT)	CONVIENIENCE POWER WITHIN 12"	REFER TO TELECOM PLANS.	4-GANG BOX WITH (4) 1-1/4" CONDUIT STUBBING UP TO ACCESSIBLE CEILING.	INSTALL AT 1' - 6" AFF TO CENTER OF BOX UNLESS OTHERWISE NOTED.
	CAM-1	CONFERENCING CAMERA (WALL MOUNTED)	N/A	REFER TO TELECOM PLANS.	2-GANG BOX WITH 1-1/4" CONDUIT STUBBING UP TO ACCESSIBLE CEILING.	INSTALL AT 3' - 8" AFF TO CENTER OF BOX UNLESS OTHERWISE NOTED.
	CAM-2	CONFERENCING CAMERA (CEILING MOUNTED)	N/A	REFER TO TELECOM PLANS.	N/A	N/A
	CB	CEILING BOX & PROJECTOR MOUNT	DEDICATED 120VAC/20A HARDWIRED CIRCUIT INSTALLED TO PLENUM CEILING BOX.	REFER TO TELECOM PLANS.	N/A	N/A BASIS OF DESIGN: FSR CB-22SP+
	CM	CEILING MICROPHONE	N/A	REFER TO TELECOM PLANS.	N/A	N/A BASIS OF DESIGN: SHURE MXA920W-S
	CS-6"	CEILING SPEAKER	N/A	N/A	N/A	DASHED LINE(S) AND TEXT ON PLAN REPRESENTS RECOMMENDED SPEAKER CABLING WIRING AND ZONE ASSIGNMENT(S).
	XX" DSD-L	DIGITAL SIGNAGE DISPLAY (LANDSCAPE MOUNT)	120VAC/20A DUPLEX OUTLET INSTALLED WITHIN BACK BOX.	REFER TO TELECOM PLANS.	(1) 1-1/4" CONDUIT TERMINATED TO BACK BOX STUBBING UP TO ACCESSIBLE CEILING.	*XX"* REPRESENTS DIAGONAL MEASUREMENT OF DISPLAY IMAGE AREA. PROVIDE (1) CHIEF PAC526FBP4 IN-WALL STORAGE BACK BOX PER DEVICE LOCAITON.
	XX" FPD	FLAT PANEL DISPLAY	120VAC/20A DUPLEX OUTLET INSTALLED WITHIN BACK BOX.	REFER TO TELECOM PLANS.	(2) 1-1/4" CONDUIT TERMINATED TO BACK BOX STUBBING UP TO ACCESSIBLE CEILING.	*XX"* REPRESENTS DIAGONAL MEASUREMENT OF DISPLAY IMAGE AREA. PROVIDE (1) CHIEF PAC526FBP4 IN-WALL STORAGE BACK BOX PER DEVICE LOCAITON.
	XXX" SCRN	PROJECTION SCREEN (WALL MOUNTED, MANUAL)	N/A	N/A	N/A	*XX"* REPRESENTS DIAGONAL MEASUREMENT OF PROJECTION SCREEN IMAGE AREA. BASIS OF DESIGN: DA-LITE MODEL C WITH CSR

GENERAL NOTES

1. THE ARCHITECTURAL PLANS, ARCHITECTURAL SPECIFICATIONS, GENERAL CONDITIONS, DIVISION SPECIFICATIONS, AND SUPPLEMENTARY DOCUMENTATION SHALL APPLY TO THE AUDIOVISUAL CONTRACTOR - POTENTIALLY REQUIRING COORDINATION WITH THE ARCHITECT, GENERAL CONTRACTOR AND/OR OTHER TRADES.
2. AUDIOVISUAL CONTRACTOR WILL PROVIDE ALL MATERIALS (EQUIPMENT, ACCESSORIES, TOOLS, ETC.), TRANSPORTATION, AND LABOR TO INSTALL A COMPLETE AUDIOVISUAL SYSTEM AS DESCRIBED IN THE ASSOCIATED DIVISION 27 40 00 SPECIFICATIONS AND FOLLOWING AUDIOVISUAL DRAWING SET.
3. EXAMINATION OF THE SITE (AND IT'S CONDITIONS) ALONG WITH THE CONTRACT DOCUMENTS WILL BE REQUIRED TO DETERMINE THE TOTAL AMOUNT OF MATERIALS, TRANSPORTATION, AND LABOR REQUIRED TO DELIVER A COMPLETE AUDIOVISUAL SYSTEM.
4. AUDIOVISUAL CONTRACTOR WILL NOTE AND REPORT TO THE GENERAL CONTRACTOR ANY WORK PERFORMED BY THE ELECTRICAL CONTRACTOR (OR ANY OTHER TRADE) THAT IS INTENDED TO SUPPORT THE AUDIOVISUAL SYSTEMS BUT DOES NOT COMPLY WITH DIVISION SPECIFICATIONS AND DESIGN DRAWINGS.
5. AUDIOVISUAL CONTRACTOR WILL TAKE REASONABLE (AND NECESSARY) STEPS TO PROTECT AUDIOVISUAL SYSTEM COMPONENTS ON SITE FROM DAMAGE (BY THEMSELVES OR OTHERS) BEFORE AND DURING THE PROJECT'S CONSTRUCTION PHASE. ONLY AFTER ACCEPTANCE AND FINAL TURN-OVER OF THE AUDIOVISUAL SYSTEM BY THE OWNER/GENERAL CONTRACTOR WILL THE AUDIOVISUAL CONTRACTOR BE RELIEVED OF RESPONSIBILITY.
6. AUDIOVISUAL CONTRACTOR WILL OBTAIN WRITTEN PERMISSION FROM THE OWNER/GENERAL CONTRACTOR PRIOR TO EXECUTING ANY WORK THAT REQUIRES CUTTING INTO OR THROUGH ANY PART OF THE BUILDING STRUCTURE INCLUDING (BUT NOT LIMITED TO) GIRDERS, BEAMS, CONCRETE FLOORS, TILE FLOORS, PARTITIONS AND CEILINGS.
7. AUDIOVISUAL CABLING SHALL BE ROUTED TO THE ASSOCIATED AUDIOVISUAL OUTLET VIA CONDUIT, CABLE TRAY AND/OR J-HOOKS.
8. AUDIOVISUAL CONTRACTOR WILL PROVIDE APPROPRIATELY SIZED MECHANICAL SLEEVES (STI EZ-PATH OR HILTI SPEED SLEEVE) THAT MATCH THE RATING OF THE WALL INTENDED FOR PENETRATION AND COORDINATE WITH THE GENERAL CONTRACTOR FOR ANY FRAMING OR IN-WALL PREPARATIONS THAT ARE REQUIRED TO SUPPORT THE PENETRATION.
9. CONTRACT DOCUMENTS, DIVISION SPECIFICATIONS, AND DESIGN DRAWINGS WILL BE REGARDED COLLECTIVELY AND IN WHOLE FOR THE PURPOSE OF BID SUBMISSION, CONTRACT AWARD, INSTALLATION, AND TURN-OVER OF THIS PROJECT.
10. AUDIOVISUAL CONTRACTOR WILL REFER TO AND ADHERE TO DIVISION SPECIFICATIONS FOR BID RESPONSE INFORMATION, PRICING, AND FORMATTING REQUIREMENTS.
11. INFORMATION RELATED TO CONTRACT DOCUMENTS, DIVISION SPECIFICATIONS, DESIGN DRAWINGS, AND/OR FIELD CONDITIONS THAT IS BELIEVED TO BE MISSING OR IN CONFLICT WILL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER/GENERAL CONTRACTOR AND OFFICIALLY SUBMITTED VIA A REQUEST FOR INFORMATION OR REQUEST FOR CLARIFICATION FORM.

COORDINATION NOTES

1. AUDIOVISUAL DRAWINGS CONTAIN INFORMATION RELATED TO MULTIPLE TRADES (FRAMING, ELECTRICAL, ETC.) AND MAY REQUIRE COORDINATION BETWEEN THE AUDIOVISUAL CONTRACTOR, GENERAL CONTRACTOR, AND THE RELATED TRADE.
2. AUDIOVISUAL CONTRACTOR SHALL COORDINATE FINISH SELECTIONS (FOR AUDIOVISUAL DEVICES WHICH OFFER MULTIPLE OR CUSTOM OPTIONS) WITH THE ARCHITECT.
3. AUDIOVISUAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING FINAL INSTALLATION LOCATION(S) FOR ALL AUDIOVISUAL SYSTEM DEVICES THAT ARE REPRESENTED IN THE DESIGN DRAWING (AND SCHEMATICS) WITH ASSOCIATED AND EFFECTED TRADES INCLUDING (BUT NOT LIMITED TO) MECHANICAL, ELECTRICAL AND PLUMBING.
4. AUDIOVISUAL CONTRACTOR WILL INSTALL CEILING MOUNTED, AUDIOVISUAL SYSTEM DEVICES ON CENTER OF THE APPROPRIATE CEILING TILE LOCATION.
5. AUDIOVISUAL CONTRACTOR WILL COORDINATE WITH THE OWNER/GENERAL CONTRACTOR ON FINAL INSTALLATION LOCATION(S) FOR AUDIOVISUAL SYSTEM COMPONENTS INCLUDING (BUT NOT LIMITED TO) CONTROL PANELS, ROOM SCHEDULERS, AND WALL PLATES.
6. WHERE WALL MOUNTED DISPLAYS ARE SHOWN IN THE DESIGN DRAWINGS AS MOUNTED ON OPPOSITE SIDES OF A SINGLE WALL, THE GENERAL CONTRACTOR WILL PROVIDE FRAMING FOR EACH DISPLAY'S ASSOCIATED IN-WALL STORAGE BOXES TO FIT BACK-TO-BACK WITHIN THAT SINGLE WALL.
7. AUDIOVISUAL CONTRACTOR WILL REFER TO THE AUDIOVISUAL RESPONSIBILITY MATRIX FOR CLARIFICATION ON WHICH PARTS OF THE AUDIOVISUAL PROJECT SCOPE WILL BE HANDLED BY THE GENERAL CONTRACTOR, AUDIOVISUAL CONTRACTOR, AND OWNER. SCOPE ITEMS DESCRIBED AS THE GENERAL CONTRACTOR'S OR OWNER'S RESPONSIBILITY MAY STILL REQUIRED COORDINATION FROM THE AUDIOVISUAL CONTRACTOR.
8. DATA AND FIBER OPTIC CABLING TO THE OWNER'S NETWORK WILL BE INSTALLED, TERMINATED, TESTED, AND DOCUMENTED BY THE TELECOMMUNICATIONS CONTRACTOR.
9. AUDIOVISUAL CABLES SHALL NOT BE PAINTED.
10. AUDIOVISUAL CABLING PLACED IN CABLE TRAY WILL BE PLACED BY THE TELECOMMUNICATIONS CONTRACTOR.
11. GENERAL CONTRACTOR WILL PROVIDE ¾" PLYWOOD BLACKING (BEHIND THE WALL FINISH AND AT THE PROPOSED INSTALLATION LOCATION) FOR ALL WALL MOUNTED DISPLAYS.

ELECTRICAL NOTES

1. ELECTRICAL CONTRACTOR WILL REVIEW ALL DOCUMENTS RELATED TO THE AUDIOVISUAL SYSTEM (INCLUDING BUT NOT LIMITED TO DIVISION 27 SPECIFICATIONS AND DESIGN DRAWINGS) TO EXECUTE THE PROJECT SCOPE OUTLINED THEREIN AND PROVIDE A COMPLETE (AND FUNCTIONAL) AUDIOVISUAL SYSTEM.
2. ELECTRICAL CONTRACTOR WILL PROVIDE ALL MATERIALS (EQUIPMENT, ACCESSORIES, TOOLS, ETC.), TRANSPORTATION, AND LABOR REQUIRED TO PROVIDE COMPLETE (AND FUNCTIONAL) COMMUNICATIONS CABLING PATHWAYS, ELECTRICAL POWER DISTRIBUTION AND GROUNDING SYSTEM AS SET FORTH IN THE COMMUNICATIONS CABLING, AUDIOVISUAL SYSTEM, AND ELECTRICAL DIVISION SPECIFICATIONS AND DESIGN DRAWINGS.
3. ALL ELECTRICAL OUTLETS FOR AUDIOVISUAL DEVICES WILL BE ON THE SAME PHASE AND WILL NOT SHARE CIRCUITS WITH MOTORS.
4. ALL AUDIOVISUAL DEVICES LOCATED IN OPEN OR INACCESSIBLE CEILINGS WILL REQUIRE CONDUIT BACK TO THE NEAREST ACCESSIBLE CEILING OR CORRIDOR SPACE.
5. ALL AUDIOVISUAL WALL PLATES, IN-WALL STORAGE BOXES, AND PLENUM CEILING BOXES WILL REQUIRE A CONDUIT ROUT BACK TO THE NEAREST ACCESSIBLE CEILING OR CORRIDOR SPACE.
6. ALL AUDIOVISUAL FLOOR BOXES AND POKE-THRUS SHALL WILL CONDUIT ROUTED UP TO THE LEVEL BEING SERVED AT THE NEAREST ACCESSIBLE CEILING OR CORRIDOR SPACE.

AUDIOVISUAL RESPONSIBILITY MATRIX

ITEM	GC	OWNER
3/4" PLYWOOD BLOCKING (FOR WALL MOUNTED AV DEVICES)	X	
NETWORK (LAN) CABLING	X	
NETWORK (LAN) SWITCHES & PATCH PANELS	X	
AUDIOVISUAL NETWORK (AVN) CABLING		OFOI
AUDIOVISUAL NETWORK (AVN) SWITCHES & PATCH PANELS		OFOI
CONDUITS	X	
ELECTRICAL & JUNCTION BOXES	X	
POWER > 24VDC	X	
FLOOR BOXES & POKE THRUS	X	
OVERFLOOR RACEWAY & CABLE PATHWAY SYSTEMS	X	
ACCESS PANELS	X	
DISPLAY BACK BOXES		OFCI
VIDEO PROJECTORS & MOUNTING SYSTEMS		OFOI
PROJECTION SCREENS & CONTROL SWITCHES		OFOI
DIGITAL SIGNAGE / WAYFINDING MEDIA PLAYERS		OFOI
DIGITAL SIGNAGE / WAYFINDING CONTENT & SCHEDULING		OFOI
DIGITAL SIGNAGE / WAYFINDING DISPLAYS & MOUNTS		OFOI
FLAT PANEL DISPLAYS & MOUNTS / CARTS		OFOI
LOUDSPEAKERS (8Ω/70v/IP) & AUDIO AMPLIFIERS		OFOI
CONFERENCING CAMERAS, BARS & MOUNTING SYSTEMS		OFOI
MICROPHONE & ANTENNA SYSTEMS (WIRED / WIRELESS)		OFOI
AV WALL PLATES & KEYSTONES		OFOI

AUDIOVISUAL SHEET LIST

Note:
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AUDIOVISUAL - INDEX

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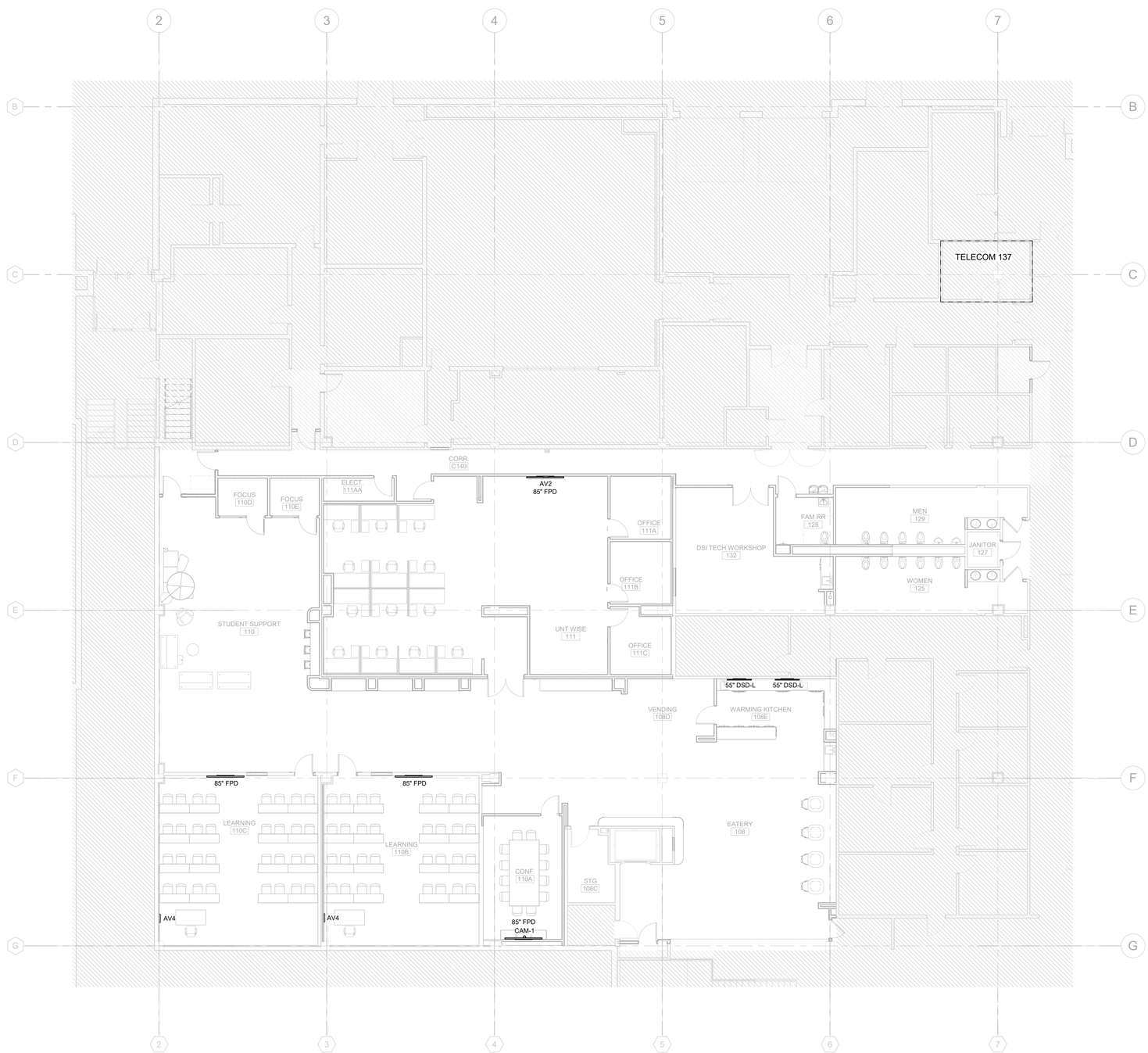
LEGEND

NOT IN SCOPE



AUDIOVISUAL - FLOOR PLAN - LEVEL 1

1/8" = 1'-0"

1

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AUDIOVISUAL - FLOOR PLAN - LEVEL 1

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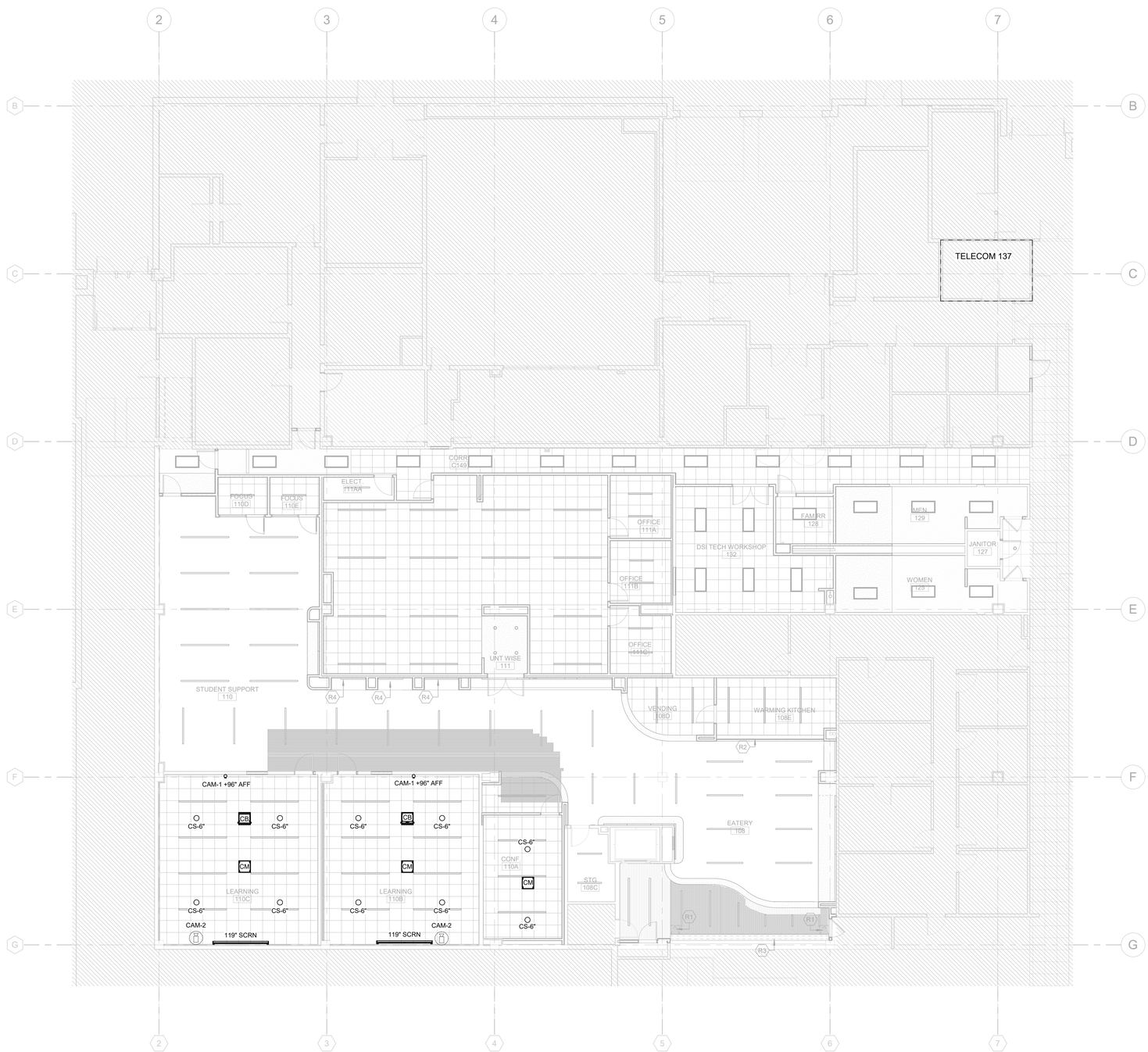

AUDIOVISUAL - REFLECTED CEILING PLAN - LEVEL 1

1/8" = 1'-0"

1

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AUDIOVISUAL - REFLECTED CEILING PLAN - LEVEL 1

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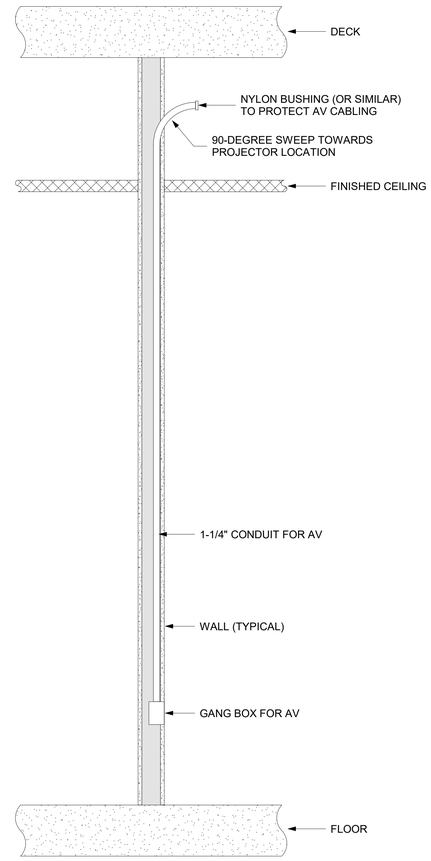
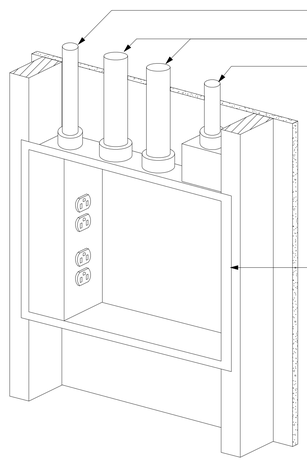


1 AV WALL PLATE & CONDUIT DETAIL
NTS



NOTES:

1. 2" X 4" WOOD OR STEEL (25 GA. MINIMUM) STUDS, LOCATED 16" ON CENTER REQUIRED FOR BACK BOX INSTALLATION.
2. REFER TO AV INDEX FOR AV CONDUIT QUANTITY AND SIZE (PER DISPLAY TYPE).
3. DO NOT RUN HIGH VOLTAGE WIRING/CABLING THROUGH BACK BOX OPENING.
4. DO NOT RUN CONDUIT THROUGH BACK BOX OPENING.
5. RETAIN COVER (AS SPECIFIED AND/OR NEEDED) FOR TRIM-OUT AFTER INSTALLATION.

2 CHIEF PAC526FBP4 BACK BOX DETAIL
NTS

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AUDIOVISUAL - DETAILS

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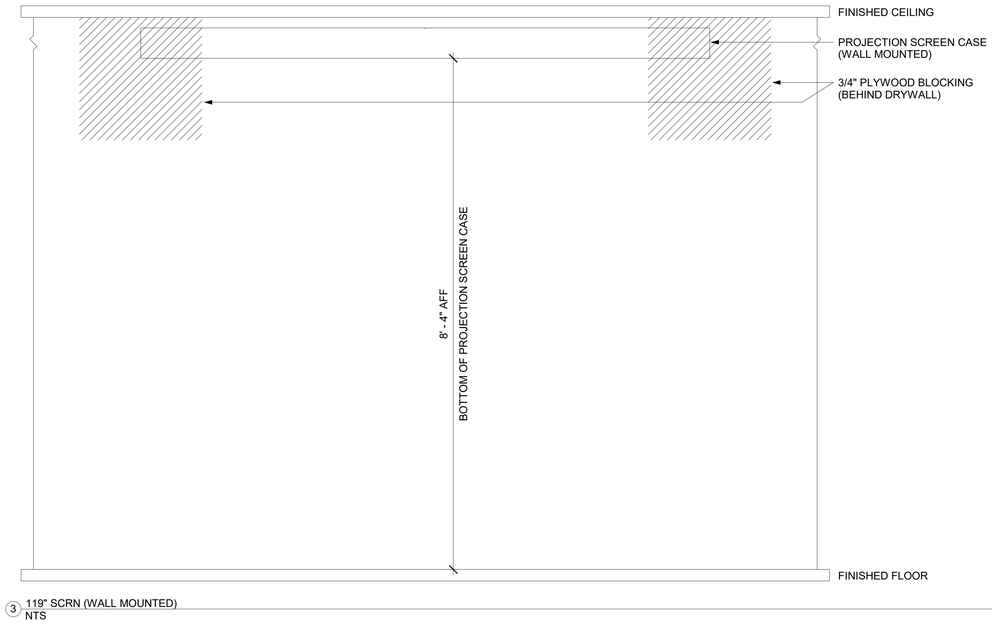
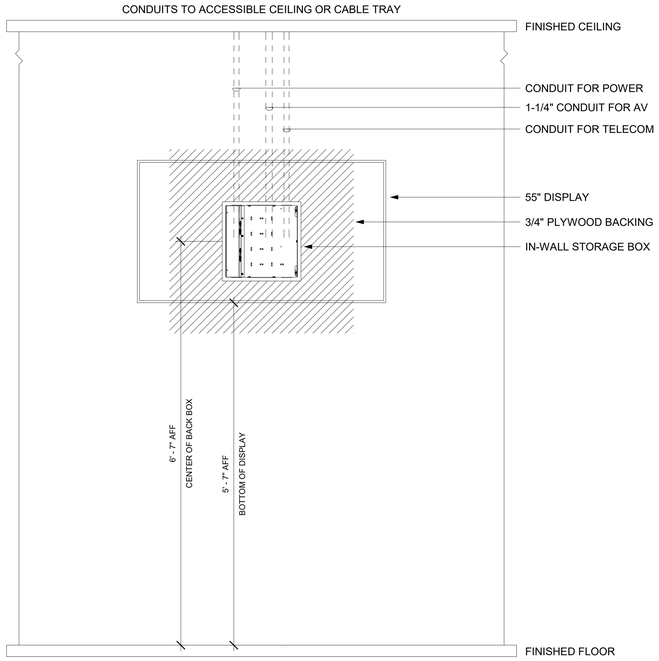
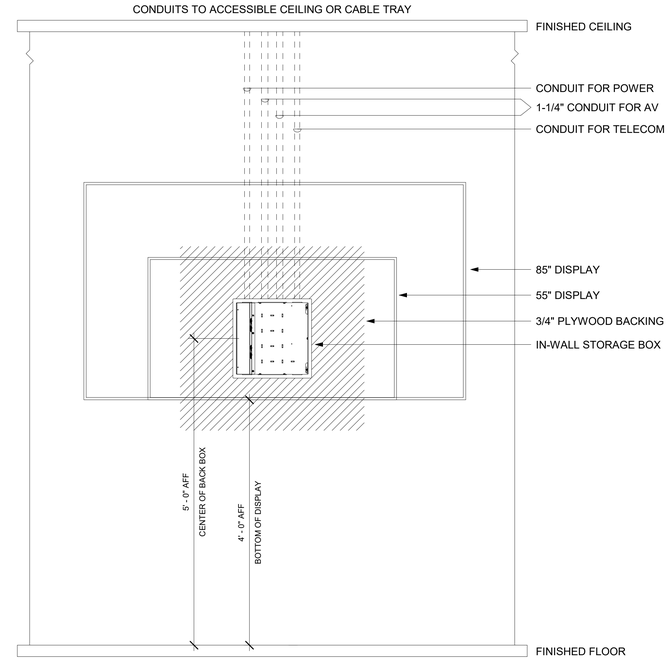


3 119" SCRN (WALL MOUNTED)
NTS



2 55" DSD-L
NTS



1 55"-85" FPD
NTS

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AUDIOVISUAL - ELEVATIONS

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GENERAL NOTES

1. THE GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, SPECIFICATIONS AND REQUIREMENTS OF OTHER DIVISIONS REQUIRE COORDINATION AND SHALL APPLY TO THE DIVISION 28 CONTRACTOR. ANY CONTRADICTING INFORMATION NEEDING CLARIFICATION SHALL BE SUBMITTED VIA A "REQUEST FOR INFORMATION" (RFI) TO THE GC.
2. PROVIDE ALL MATERIALS, COMPONENTS, TOOLS AND LABOR TO INSTALL A COMPLETE VIDEO SURVEILLANCE AND ACCESS CONTROL SYSTEM AS SHOWN IN THE SAFETY AND SECURITY SYSTEM DIVISIONS 27/28 SPECIFICATIONS, "TY" DRAWINGS AND "E" DRAWINGS.
3. CAREFULLY EXAMINE THE SITE CONDITIONS TO DETERMINE THE EXTENT OF WORK AND CONDITIONS UNDER WHICH IT WILL NEED TO BE DONE.
4. REVIEW AND VERIFY CONTRACT DOCUMENTS IN RELATION TO FIELD CONDITIONS TO VERIFY ACCURACY, CONFIRMING WITH OWNER, OR THEIR DESIGNATED REPRESENTATIVE, THAT RELATED WORK HAS BEEN COMPLETED PRIOR TO PROCEEDING WITH INSTALLATION.
5. DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER, OR THEIR DESIGNATED REPRESENTATIVE, FOR CLARIFICATION.
6. REFER TO SECURITY CONTRACT DOCUMENTS, DRAWINGS AND SPECIFICATIONS AS A WHOLE, IN THE BIDDING AND INSTALLATION OF THIS PROJECT.
7. NOTE AND REPORT TO THE GC, ANY WORK PERFORMED BY OTHERS, INTENDED FOR THE SECURITY SYSTEM, IF IT DOES NOT COMPLY WITH ELECTRONIC SAFETY AND SECURITY SYSTEM SPECIFICATIONS AND DRAWINGS.
8. TAKE NECESSARY MEANS TO PROTECT SECURITY SYSTEM COMPONENTS FROM MECHANICAL DAMAGE, DUST AND DIRT BEFORE, DURING AND AFTER CONSTRUCTION.
9. ALL COMPONENTS AND DEVICES SHOWN ON THESE DRAWINGS ARE FOR APPROXIMATE LOCATION AND POSITIONING ONLY. VERIFY EXACT LOCATIONS WITH THE OWNER OR GC PRIOR TO INSTALLATION.
10. REFERENCE DIVISION 28 SPECIFICATIONS FOR ITEMIZED PRICING REQUIREMENTS.

SECURITY PATHWAYS

1. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ALL CONDUITS, PULL STRINGS, CORES AND JUNCTION BOXES AS REQUIRED ON THE "TY" DRAWINGS.
2. CONDUIT RUNS SHALL NOT CONTAIN MORE THAN TWO (2) SWEEPING 90 DEGREE BENDS AND NOT EXCEED 100 FEET. IF THESE CONDITIONS CANNOT BE MET, A J-BOX MUST BE PLACED IN THE RUN WITH THE ABILITY TO ACCESS THROUGH THE CEILING.
3. PROPERLY FIRE STOP AND LABELED ALL SECURITY PATHWAY CONDUITS AND UNUSED "SECURITY INTENDED USE CONDUITS" PRIOR TO SUBSTANTIAL COMPLETION.
4. CONDUIT SIZES INDICATED ON THE DRAWINGS AND HOME RUN SIZES SHOWN ON DETAIL SHEETS ARE TO BE CONSIDERED THE MINIMUM SIZE TO BE INSTALLED. PROVIDE LARGER OR ADDITIONAL CONDUIT IF REQUIRED. CONDUIT SIZES INDICATE DEDICATED HOME RUNS BUT MAY BE COMBINED WITH OTHER LOCATIONS BY SYSTEM TYPE (VIDEO SURVEILLANCE, INTERCOM AND ACCESS CONTROL) AS LONG AS NEC MAXIMUM FILL REQUIREMENTS ARE MAINTAINED.
5. FURNISH AND INSTALL CABLE SUPPORT, CABLE MANAGEMENT AND ASSOCIATED CEILING MOUNTING HARDWARE WHERE REQUIRED FOR CABLING INSTALLED BY SECURITY CONTRACTOR.
6. ALL DOOR PREP TO INCLUDE CONDUIT, PULL STRINGS, PROTECTIVE BUSHINGS AND JUNCTION BOXES AS SHOWN ON THE "TY" DRAWINGS PRIOR TO THE SECURITY INSTALLATION.
7. ELECTRICAL CONTRACTOR SHALL READ, IN THEIR ENTIRETY, ALL SECTIONS OF THE ELECTRONIC SAFETY AND SECURITY SYSTEM DOCUMENTS AND APPLY THEM AS APPROPRIATE FOR WORK IN THIS SECTION. REFERENCE DIVISION 28 SPECIFICATIONS AND "TY" DRAWINGS
8. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, COMPONENTS, TOOLS AND LABOR REQUIRED TO COMPLETE SECURITY CABLING PATHWAY, ELECTRICAL POWER DISTRIBUTION AND GROUNDING SYSTEM AS SET FORTH IN THE ELECTRONIC SAFETY AND SECURITY SYSTEM DOCUMENTS AND THE ELECTRICAL DOCUMENTS, SPECIFICATIONS AND DRAWINGS.

COMMUNICATIONS ROOMS

1. RACK ELEVATIONS AND NETWORK EQUIPMENT ARE SHOWN FOR COORDINATION AND INFORMATIONAL PURPOSES ONLY.
2. FURNISH AND INSTALL CABLE SUPPORT, CABLE MANAGEMENT AND ASSOCIATED HARDWARE WITHIN TELECOMMUNICATIONS ROOMS.

ELECTRICAL

1. FOR SPECIFIC POWER AND RECEPTACLE REQUIREMENTS, REFERENCE ELECTRICAL DOCUMENTS AND VERIFY WITH SECURITY DOCUMENTS. REPORT ANY DISCREPANCIES TO THE GC PRIOR TO PURCHASE OR INSTALLATION.
2. ELECTRICAL CONTRACTOR SHALL INSTALL NORMAL AND GENERATOR BACK-UP POWER AS REQUIRED BY THE SECURITY SYSTEM AND COORDINATED BY THE SECURITY CONTRACTOR.
3. ELECTRICAL CONTRACTOR SHALL PROVIDE 120V AC FOR ELECTRIC LOCK POWER SUPPLIES, SECURITY DEVICE POWER SUPPLIES AND CAMERA POWER SUPPLIES AS REQUIRED. SECURITY AND DOOR CONTRACTORS SHALL IDENTIFY LOCATIONS ON SUBMITTALS.

GROUNDING & BONDING

1. ADHERE TO ALL GROUNDING AND BONDING REQUIREMENTS SET FORTH IN THE ANSI-J-STD-607-B COMMERCIAL GROUNDING AND BONDING STANDARDS.
2. PREPARE SURFACES TO PROVIDE A PROPER PATH TO GROUND. ANY SURFACE TO BE GROUNDED MUST BE FREE OF PAINT OR OTHER COATING THAT MIGHT PREVENT AN EFFECTIVE GROUND. PAINT SHOULD BE SCRAPED AWAY UNTIL METALLIC SURFACE HAS BEEN EXPOSED BEFORE THE ATTACHMENT OF GROUNDING OR BONDING CONNECTOR.

VIDEO SURVEILLANCE

1. PROVIDE ALL REQUIRED DEVICES, MOUNTS, HARDWARE AND PERIPHERAL COMPONENTS AS SHOWN ON "TY" DRAWINGS FOR A COMPLETE AND FUNCTIONAL SYSTEM.
2. PROVIDE CAMERAS AT THE HEIGHT ABOVE GRADE OR ABOVE FINISHED FLOOR (AFF) AS INDICATED ON THE "TY" PLANS.
3. COORDINATE LOCATION OF CAMERAS WITH ALL CEILING MOUNTED ARCHITECTURAL AND MEP EQUIPMENT.
4. LOCATE CAMERAS AND CONFIGURE LENS SETTINGS TO OPTIMIZE CAMERA VIEWS.
5. VERIFY THERE ARE NO PHYSICAL OBSTRUCTIONS TO THE INTENDED CAMERA VIEWS PRIOR TO INSTALLATION. SHOULD ANY OBSTRUCTIONS BE PRESENT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE OWNER AND ADJUST THE CAMERA POSITIONS AS NEEDED.
6. COORDINATE WITH THE COMMUNICATIONS CONTRACTOR WHO IS RESPONSIBLE FOR THE INSTALLATION OF ALL CABLING FOR IP CAMERAS.
7. PROVIDE SECURITY CAMERA POWER INJECTOR AS REQUIRED FOR PAN/TILT/ZOOM (PTZ) CAMERAS TO CONTROL PTZ FUNCTIONS.
8. CONTRACTOR IS RESPONSIBLE FOR CAMERA LICENSES, SOFTWARE REVISIONS, NETWORK VIDEO RECORDERS (NVR) AND CAMERA FIELD OF VIEWS AS WELL AS COORDINATION AND TRAINING WITH THE OWNER TO LEARN THE VIEWING AND RECORDING SYSTEM.
9. PROVIDE NETWORK STORAGE CALCULATIONS AS PART OF THE SUBMITTAL PACKAGES.
10. CONFIGURE MOTION DETECTION WINDOWS WITH THE INVOLVEMENT OF THE OWNER IN ORDER TO MINIMIZE FALSE MOTION EVENTS.

ACCESS CONTROL

1. DOOR CONTRACTOR SHALL PROVIDE ALL ELECTRIC LOCKS AS SHOWN ON "TY" DRAWINGS AND COMPLY WITH BUILDING HARDWARE SCHEDULE.
2. DOOR CONTRACTOR PROVIDE EXTERIOR KEY-BYPASS OPTION ON ALL ELECTRIC LOCK DOORS TO ALLOW MANUAL ENTRY. LOCKS TO BE THE SAME MANUFACTURER AS REQUIRED BY BUILDING HARDWARE SCHEDULE.
3. DOOR CONTRACTOR SHALL PROVIDE ALL ELECTRICAL TRANSFER HINGES AS SHOWN ON "TY" DRAWINGS AND COMPLY WITH BUILDING HARDWARE SCHEDULE.
4. FIRE ALARM CONTRACTOR SHALL PROVIDE FIRE ALARM SIGNAL INTERFACES AS REQUIRED AND COORDINATED BY THE SECURITY CONTRACTOR FOR RELEASE OF SECURITY CONTROLLED DOORS PER CURRENT LIFE SAFETY CODES.
5. HOME-RUN ALL SECURITY COMPOSITE CABLING TO DESIGNATED SECURITY PANEL PER FLOOR AND LEAVE 24-INCH SERVICE LOOP ABOVE DOOR AND ABOVE THE DESIGNATED SECURITY PANEL.
6. ALL DOORS ARE SET TO FAIL SECURE WITH PUSH BAR OR HANDLE ACTIVATED "REQUEST TO EXIT" EGRESS AND KEY LOCK INGRESS.
7. SIZE DOOR CONTROLLERS, ENCLOSURES, BOARDS AND POWER SUPPLIES TO ALLOW FOR A MINIMUM OF 20 PERCENT FUTURE GROWTH.
8. PROVIDE THE FOLLOWING:
   - A. CARD READERS
   - B. SUPERVISED RESISTORS
   - C. DOOR POSITION SWITCH
   - D. BOARD ENCLOSURE
   - E. CONTROLLER
   - F. EXPANSION BOARDS
   - G. POWER SUPPLIES
   - H. INTERCOM - MASTER STATION AND REMOTE STATION
   - I. LOW VOLTAGE CABLE
   - J. PROJECT MANAGEMENT AND CUSTOMER TRAINING.
9. COORDINATE WITH OWNER TO ENSURE SUCCESSFUL TIE INTO OWNERS ACCESS CONTROL SYSTEM.

SECURITY SYMBOL LEGEND

	FIXED MEGAPIXEL DOME CAMERA
	MULTI DIRECTIONAL DUAL SENSOR CAMERA
	CARD READER - LOCATIONS INCLUDE READER, DOOR CONTACT, REX, AND POWER FOR ELECTRIFIED LOCKSET AND/OR MAGLOCK. ELECTRIFIED LOCKSET AND/OR MAGLOCK PROVIDED BY DOOR CONTRACTOR.
	DOOR CONTACT ONLY LOCATIONS

SECURITY ABBREVIATIONS

ACS	ACCESS CONTROL SYSTEM
AFF	ABOVE FINISHED FLOOR
APS	ACCESS CONTROL POWER SUPPLY
AWG	AMERICAN WIRE GAUGE
CCTV	CLOSED CIRCUIT TELEVISION
CFCI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CH	CHANNEL
CON	CONDUCTOR
CPS	CAMERA POWER SUPPLY
CPU	CENTRAL PROCESSING UNIT
CRT	CATHODE RAY TUBE
DB	DECIBEL
DGP	DATA GATHERING PANEL
DVR	DIGITAL VIDEO RECORDER
EL	ELECTRONIC LOCKSET
ESS	ELECTRONIC SAFETY & SECURITY
FC	FOOT CANDLE
FOV	FIELD OF VIEW
FPS	FRAMES PER SECONDS
FSD	FLAT SCREEN DISPLAY
GC	GENERAL CONTRACTOR
IDF	INTERMEDIATE DISTRIBUTION FRAME
IP	INTERNET PROTOCOL
IR	INFRARED
JPEG	JOINT PHOTOGRAPHIC EXPERTS GROUP
LPS	LOCK POWER SUPPLY
MDF	MAIN DISTRIBUTION FRAME
MPEG	MOTION PICTURE EXPERTS GROUP
NTSC	NATIONAL TELEVISION STANDARDS COMMITTEE
NVR	NETWORK VIDEO RECORDER
PIR	PASSIVE INFRARED
POE	POWER OVER ETHERNET
PP	PATCH PANEL
PPF	PIXELS PER FOOT
PTZ	PAN-TILT-ZOOM
REX	REQUEST TO EXIT
SMS	SOFTWARE MANAGEMENT SYSTEM
TP	TERMINATION POINT
TR	TELECOM ROOM
TS	TRADE SIZE
TY	SECURITY DISCIPLINE DESIGNATOR
UM	MICRON
UPS	UNINTERRUPTIBLE POWER SUPPLY
UTP	UNSHIELDED TWISTED PAIR
VMS	VIDEO MANAGEMENT SOFTWARE
WDR	WIDE DYNAMIC RANGE

SECURITY SHEET LIST

SECURITY RESPONSIBILITY MATRIX

ITEM	GC	SEC	DOOR HARDWARE	OWNER
NETWORK CABLING TO IDF	X			
CONDUITS	X			
J-BOXES	X			
POWER > 24VDC	X			
ACCESS PANELS	X			
SECURITY CABLING (NON IP)		X		
SECURITY PANELS		X		
CAMERAS		X		
CARD READERS		X		
DOOR CONTACTS		X		
DOOR LOCKS AND HARDWARE			X	
REX (INTEGRATED)			X	
REX (PIR)		X		
LOW VOLTAGE POWER DISTRIBUTION PANELS AND CABLING		X		
NETWORK VIDEO RECORDERS		X		
SECURITY SYSTEM LICENSES		X		
PROPRIETARY REMOTE LOCKDOWN PANELS				OFOI
COMPUTERS				OFOI

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SECURITY INDEX

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LEGEND

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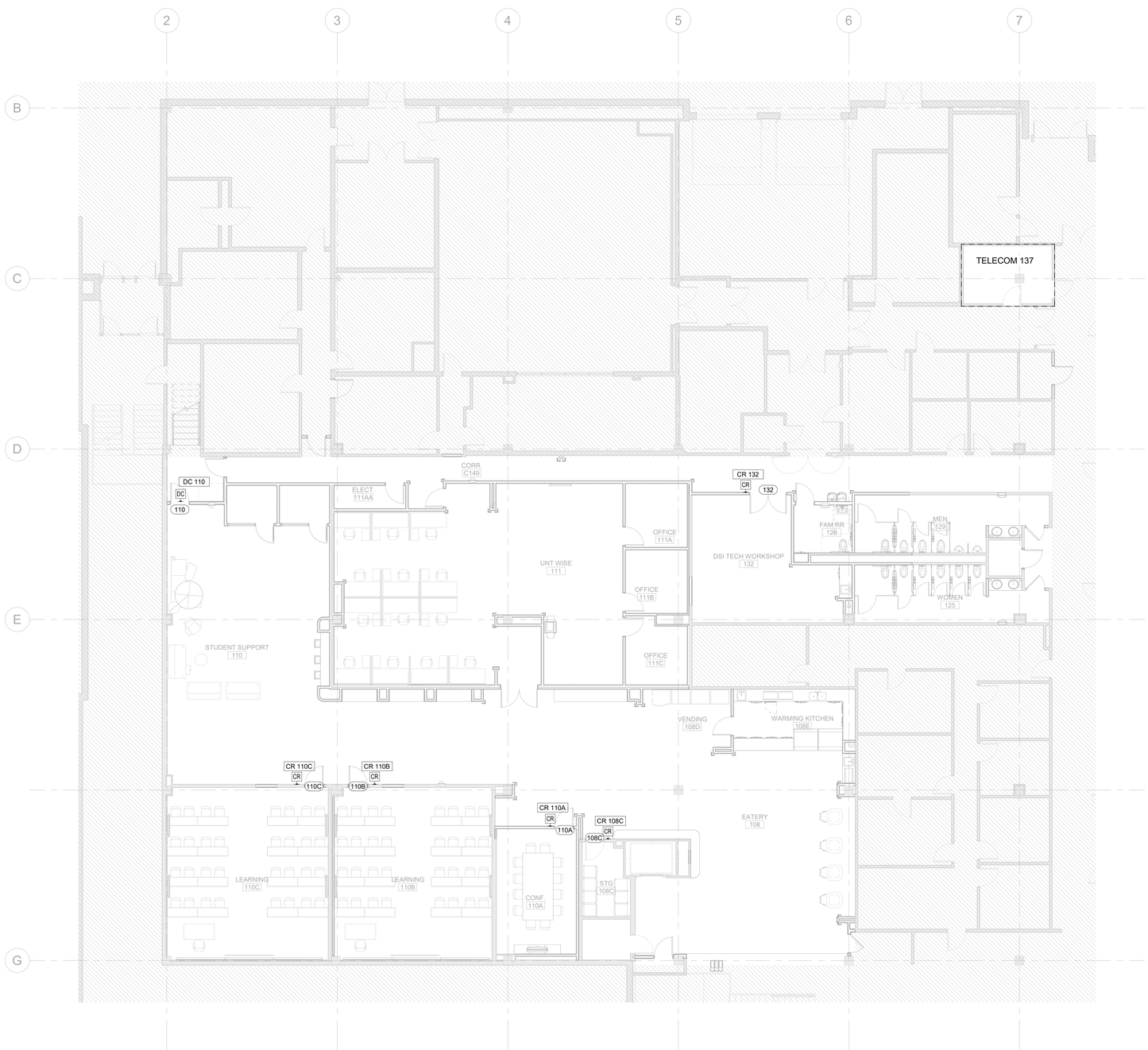
ACCESS CONTROL SCHEDULE

DEVICE NUMBER	DOOR NUMBER	DETAIL
CR 108C	108C	1/TY502
CR 110A	110A	1/TY502
CR 110B	110B	1/TY502
CR 110C	110C	1/TY502
CR 132	132	2/TY502
DC 110	110	3/TY502



SECURITY PLAN - LEVEL 1

1/8" = 1'-0"

1

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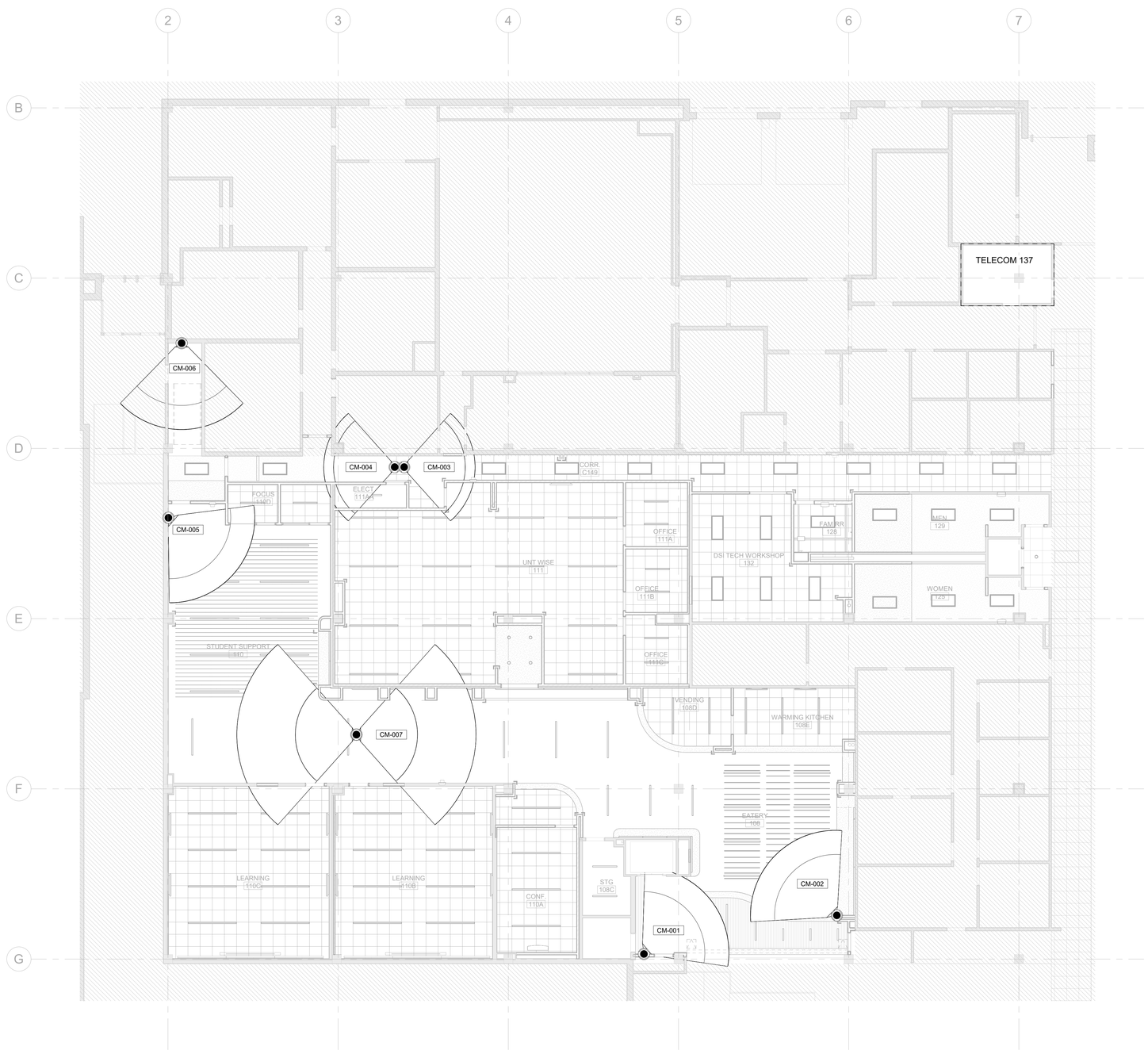
VIDEO SURVEILLANCE SCHEDULE

DEVICE NUMBER	CAMERA TYPE	HEIGHT	DETAIL
CM-001	WALL SURFACE	8' - 6"	5/TY501
CM-002	WALL SURFACE	8' - 6"	5/TY501
CM-003	CEILING SURFACE	8' - 6"	4/TY501
CM-004	CEILING SURFACE	8' - 6"	4/TY501
CM-005	WALL SURFACE	8' - 6"	5/TY501
CM-006	WALL SURFACE	8' - 6"	5/TY501
CM-007	CEILING PENDANT	9' - 10"	6/TY501



SECURITY RCP - LEVEL 1

1/8" = 1'-0"

1

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SECURITY RCP - LEVEL 1

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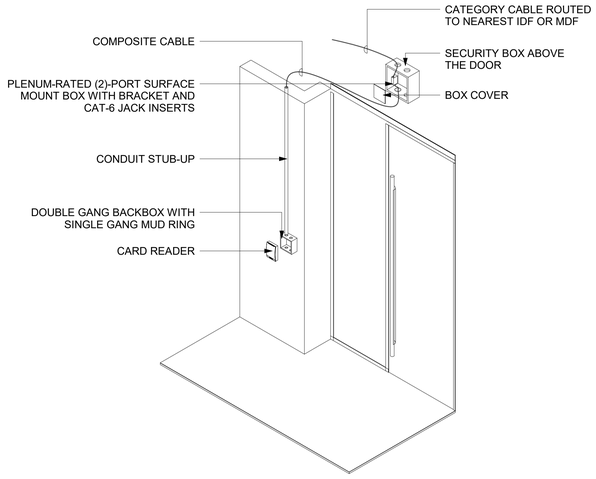
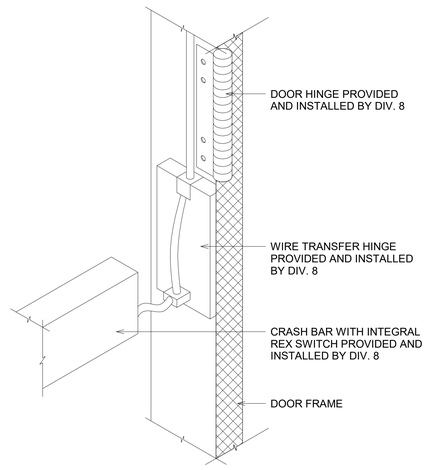


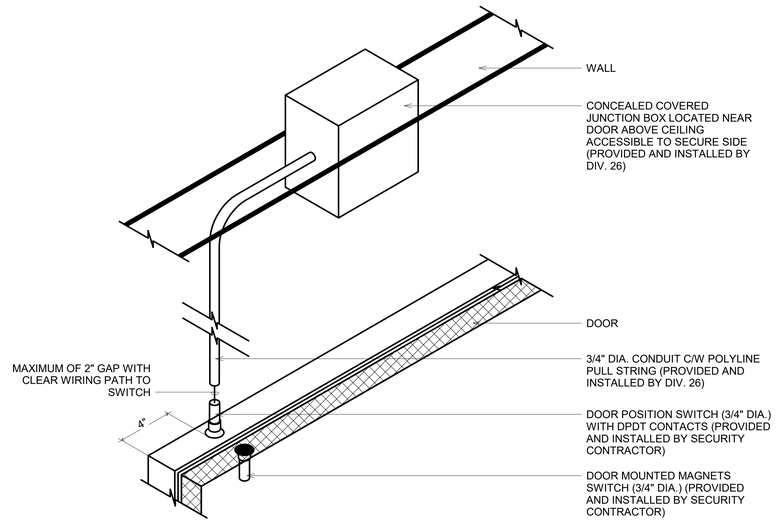
CARD READER ROUGH-IN
NTS

1



WIRE TRANSFER HINGE DETAIL
NTS

2



DOOR CONTACT SWITCH DETAIL
NTS

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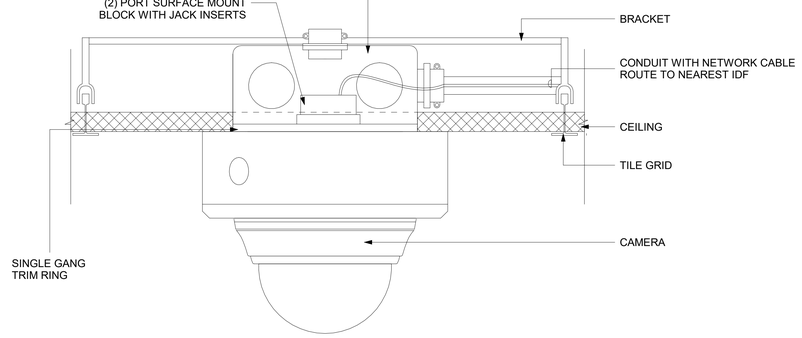
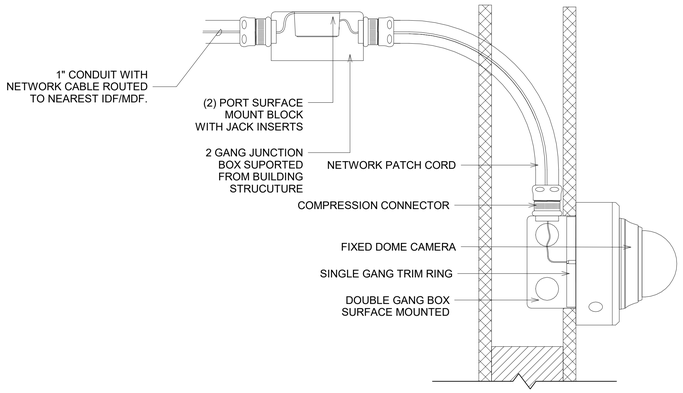


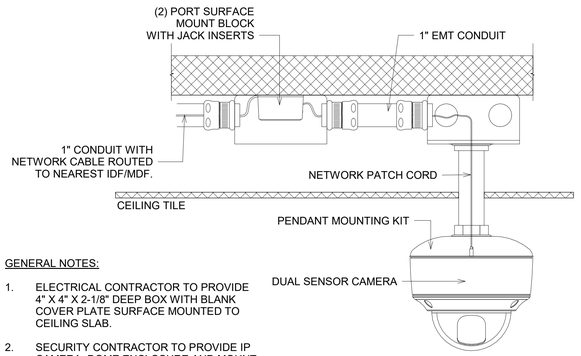
CAMERA DETAIL - CEILING MOUNT
NTS

4



CAMERA DETAIL - WALL SURFACE
NTS

5



GENERAL NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE 4" X 4" X 2-1/8" DEEP BOX WITH BLANK COVER PLATE SURFACE MOUNTED TO CEILING SLAB.
2. SECURITY CONTRACTOR TO PROVIDE IP CAMERA, DOME ENCLOSURE AND MOUNT AS INDICATED ON PLANS. COMPLETE ALL CONNECTIONS OF PATCH CORD TO CAMERA ENCLOSURE.

CAMERA DETAIL - CEILING PENDANT MOUNT
NTS

6

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SECURITY DETAILS

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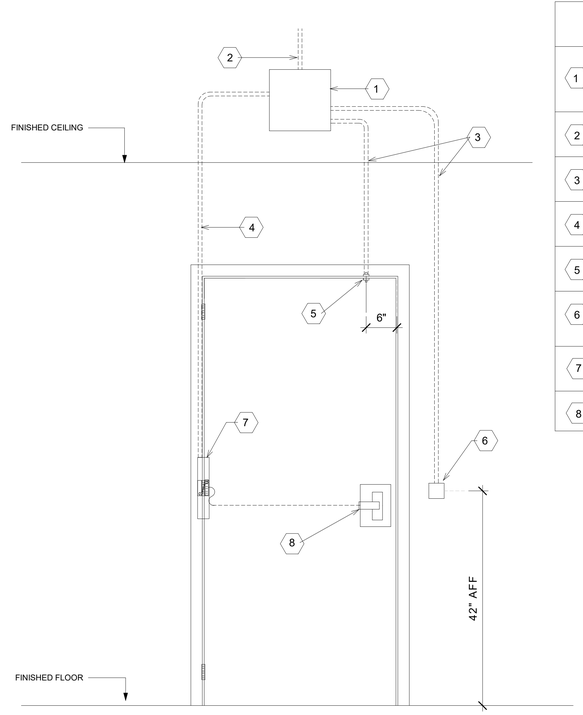
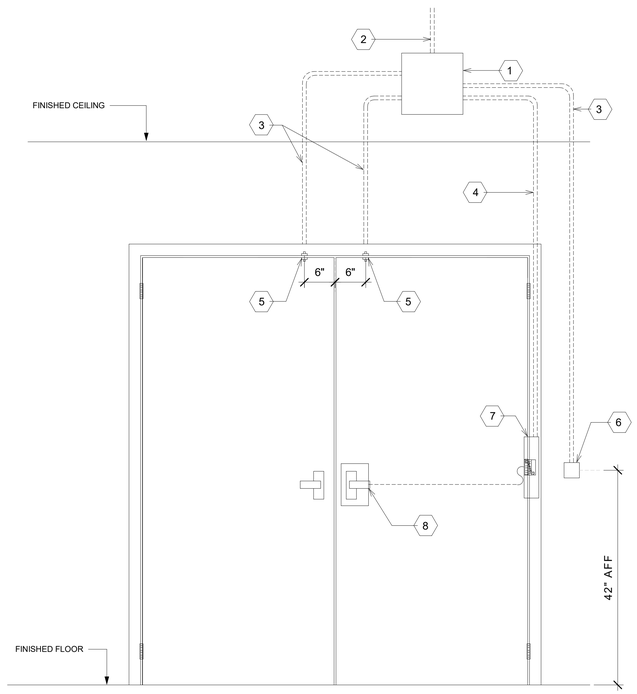


KEYNOTES	
1	12" X 12" X 6" DEEP JUNCTION BOX, SURFACE-MOUNTED ON THE WALL ON THE SECURE SIDE OF THE DOOR, ABOVE THE ACCESSIBLE CEILING. ACCESS TO THE JUNCTION BOX SHOULD BE MAINTAINED UNLESS OTHERWISE NOTED.
2	ROUTE 1" CONDUIT TO THE NEAREST ACCESSIBLE CEILING SPACE. HOME RUN TO THE CLOSEST IDF.
3	EMT CONDUIT 3/4" MINIMUM.
4	EMT CONDUIT 1/2" CONNECTED TO POWER TRANSFER BACKBOX.
5	CONDUIT STUBBED INTO HEADER FOR RECESSED DOOR POSITION SWITCH.
6	4" x 4" x 2-1/8" BOX WITH SINGLE GANG MUD RING FOR CARD READER. REFER TO FLOOR PLANS FOR LOCATION.
7	POWER TRANSFER BY DIVISION 08
8	ELECTROMECHANICAL LOCK BY DIVISION 08

SINGLE DOOR CONDUIT ROUGH-IN - CARD READER WITH ELECTROMECHANICAL LOCK 1
NTS



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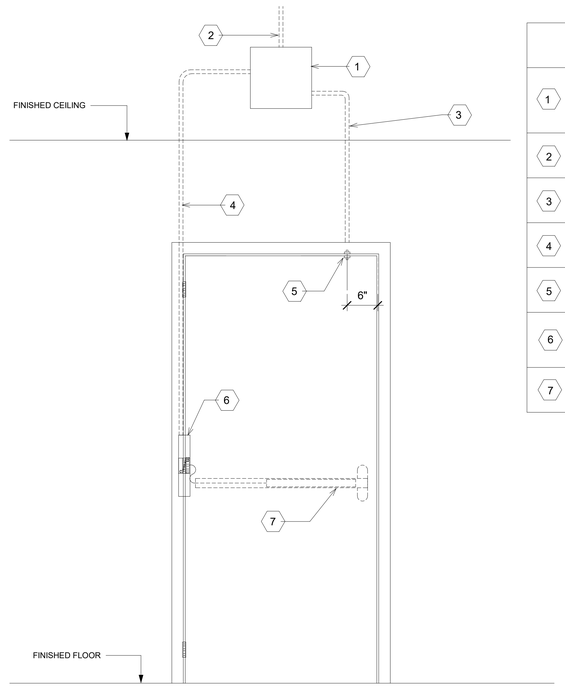
2	ROUTE 1" CONDUIT TO THE NEAREST ACCESSIBLE CEILING SPACE. HOME RUN TO THE CLOSEST IDF.
3	EMT CONDUIT 3/4" MINIMUM.
4	EMT CONDUIT 1/2" CONNECTED TO POWER TRANSFER BACKBOX.
5	CONDUIT STUBBED INTO HEADER FOR RECESSED DOOR POSITION SWITCH.
6	4" x 4" x 2-1/8" BOX WITH SINGLE GANG MUD RING FOR CARD READER. REFER TO FLOOR PLANS FOR LOCATION.
7	POWER TRANSFER BY DIVISION 08
8	ELECTROMECHANICAL LOCK BY DIVISION 08

DOUBLE DOOR CONDUIT ROUGH-IN - CARD READER WITH ELECTROMECHANICAL LOCK 2
NTS



KEYNOTES	
1	12" X 12" X 6" DEEP JUNCTION BOX, SURFACE-MOUNTED ON THE WALL ON THE SECURE SIDE OF THE DOOR, ABOVE THE ACCESSIBLE CEILING. ACCESS TO THE JUNCTION BOX SHOULD BE MAINTAINED UNLESS OTHERWISE NOTED.
2	ROUTE 1" CONDUIT TO THE NEAREST ACCESSIBLE CEILING SPACE. HOME RUN TO THE CLOSEST IDR CLOSET WITHIN GARAGE AREAS AND ON MEP FLOORS.
3	EMT CONDUIT 3/4" MINIMUM.
4	EMT CONDUIT 1/2" CONNECTED TO POWER TRANSFER BACKBOX.
5	CONDUIT STUBBED INTO HEADER FOR RECESSED DOOR POSITION SWITCH.
6	POWER TRANSFER BY DIVISION 08
7	EXIT DEVICE BY DIVISION 08

SINGLE DOOR CONDUIT ROUGH-IN - DOOR CONTACT FREE EGRESS 3
NTS

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