



owner

architect

tbraun@vcbo.com 801.575.8800

INTERMOUNTAIN ~ SHC 4TH FLOOR REMODEL

INTERMOUNTAIN HEALTH CARE 383 WEST VINE STREET MURRAY, UT 84123 CLIENT PROJECT NUMBER: 00000

CONSTRUCTION DOCUMENTS DECEMBER 10, 2019

524 SOUTH 600 EAST SALT LAKE CITY, UT 84102 801.575.8800 | VCBO.COM

STEVE ROSE INTERMOUNTAIN HEALTH CARE 36 SOUTH STATE STREET, SUITE 2300 MURRAY, UTAH 84111 steve.rose@imail.org 801.442.2861

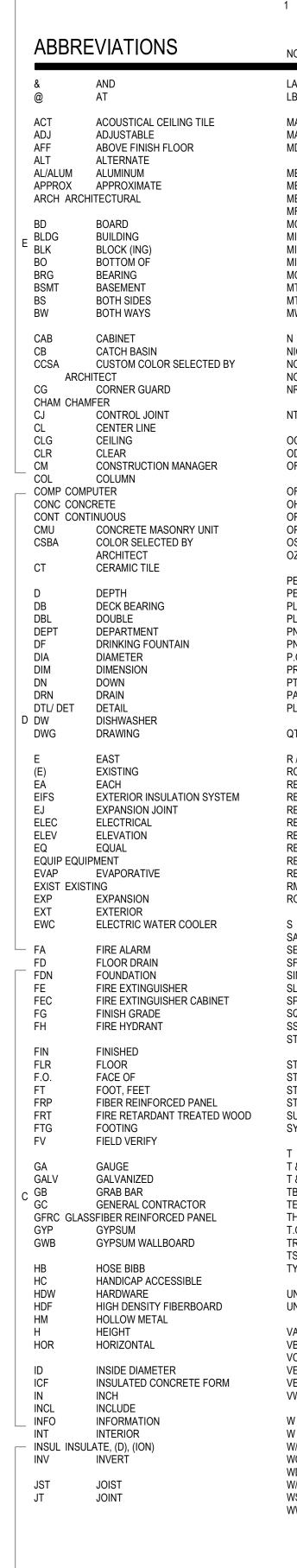
TODD BRAUN, AAIA VCBO ARCHITECTURE 524 SOUTH 600 EAST SALT LAKE CITY, UT 84102

mechanical engineer

JOSH ELLIOTT PVE INC. 1040 NORTH 2200 WEST SUITE 100 SALT LAKE CITY, UTAH 84116 jelliott@pve-ut.com 801.359.3158

electrical engineer

TYLER SQUIRE SPECTRUM ENGINEERS 324 SOUTH STATE ST. #400 SALT LAKE CITY, UTAH 84111 tds@spectrum-engineers.com 801.328.5151



_AV	LAVATORY
_B/ LBS	POUND (S)
MAT	MATERIAL (S)
MAX	MAXIMUM
MDF	MEDIUM DENSITY
FIBERE MECH MECHA MEMB MEMBE MEZZ	-
MFR	MANUFACTURER
MGR	MANAGER
MIN	MINIMUM
	MIRROR MISCELLANEOUS MASONRY OPENING
MTD	MOUNT, (ED)
MTL	METAL
MW	MICROWAVE
	NORTH NOT IN CONTRACT NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION
NTS	NOT TO SCALE
DC DD DFCI	ON CENTER OUTSIDE DIAMETER OWNER FURNISHED/ CONTRACTOR INSTALLED
OFD	OVERFLOW DRAIN
OH	OVERHEAD
opg	OPENING
opp	OPPOSITE
osb	ORIENTED STRAND BOARD
oz	OUNCE
PERI PERM PERMA	
PLAM PNI	PLATE PLASTIC LAMINATE PANEL
PNT	PAINT (ED)
P.O.	POINT OF
PT PART	PAIR POST TENSIONED PARTITION
PLY	PLYWOOD QUARRY TILE
r / RAD	RADIUS
RCP	REFLECTED CEILING PLAN
REC REF	RECESSED REFERENCE REFRIGERATOR
REINF REINFO	
reqd requi	RED
Rev	REVISION (S)
RM	ROOM
RO	ROUGH OPENING
	SOUTH SALVAGE (ED) SECTION
SF SIM	SQUARE FOOT SIMILAR SEALANT
SPEC	SPECIFICATION (S)
SQ	SQUARE
SS STC CLASS	STAINLESS STEEL SOUND TRANSMISSION
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUC	STRUCTURE (AL)
SUSP	SUSPENDED
SYM	SYMMETRY (ICAL)
Г	THICKNESS
Г & В	TOP AND BOTTOM
Г & G	TONGUE AND GROOVE
ГВD	TO BE DETERMINED
ГЕМР	TEMPORARY
ΓHRU	THROUGH
Γ.Ο.	TOP OF
FRANSTRANS	FORMER
FS	TUBE STEEL
FYP	TYPICAL
JNF	UNFINISHED
JNO	UNLESS OTHERWISE NOTED
/AR	VARIES
/B	VAPOR BARRIER
-	VINYL COMPOSITION TILE VERTICAL VESTIBULE
/WC	VINYL WALLCOVERING
N	WEST
N	WIDTH
N/	WITH
NC	WATER CLOSET
ND	WOOD
N/O	WITHOUT
WSCT WAINS	СОТ

WSCT WAINSCOT

WELDED WIRE FABRIC

WWF

NOT ALL ABBREVIATIONS MAY BE USED

UTILITY CONTACTS

power MURRY CITY POWER 153 WEST 4800 SOUTH MURRAY, UTAH 84124 801.264.2706

natural gas

QUESTAR GAS 180 EAST 100 SOUTH SALT LAKE CITY, UTAH 84145 swgas.com 801.324.5000

water/storm drain DANNY J ASTILL MURRAY CITY WATER DEPT 4646 SOUTH 500 WEST MURRAY, UTAH 84123 murray.utah.gov 801.270.2440

telephone

QWEST COMMUNICATIONS 4400 SOUTH MAIN STREET SALT LAKE CITY, UTAH 84107 801.265.5011

PROJECT TEAM

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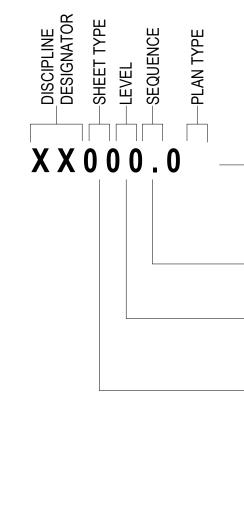
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SHEET NUMBERING + NAMING



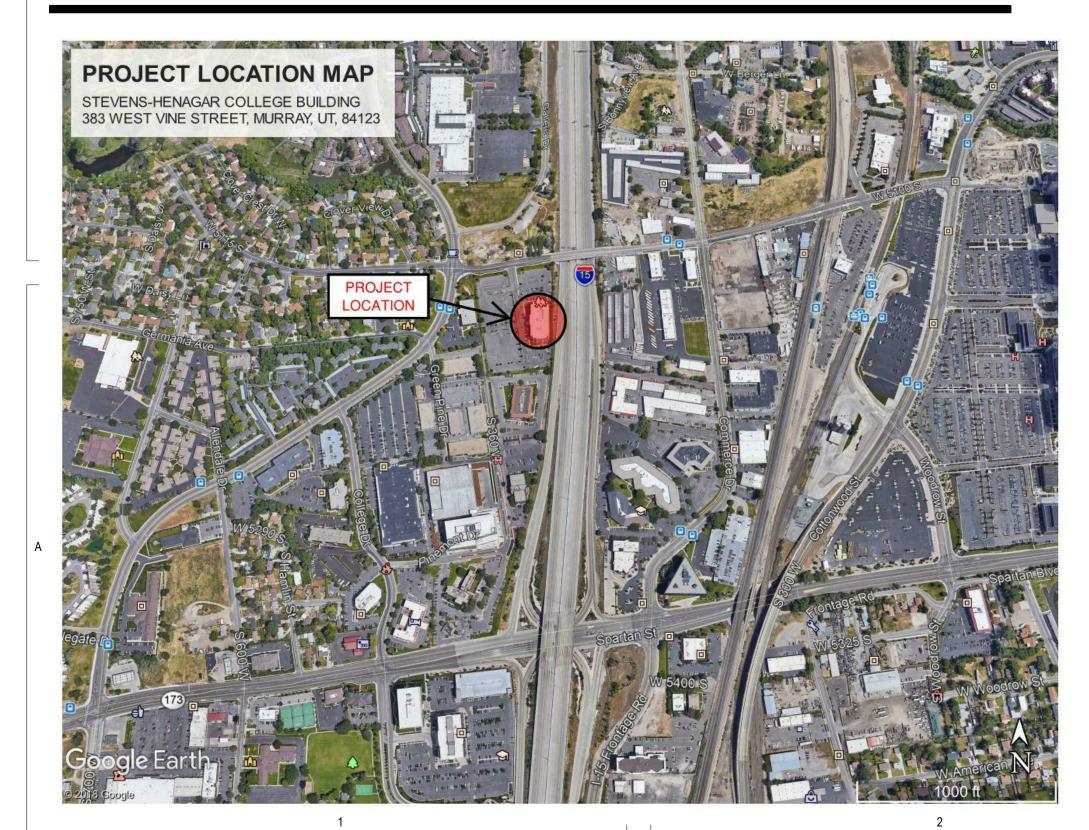
THIS IS A QUICK REFERENCE GUIDE TO THE SHEET NUMBERING AND NAMING SYSTEM USED IN VCBO CONSTRUCTION DOCUMENTS.
 PLAN TYPE .0 SLAB PLAN .1 ANNOTATED PLAN .2 DIMENSION + WALL TYPE PLAN .3 FINISH PLAN .4 REFLECTED CEILING PLAN
 SEQUENCE DENOTES AREA SEQUENCE IN PLAN, AND NUMBERIC SEQUENCE IN NON-PLAN SHEETS
 LEVELS DENOTES LEVEL IN A MULTI-STORY BUILDING. ALSO BECOMES A SEQUENCE NUMBER DENOTING DIVISIONS IN NON-PLAN SHEETS
 SHEET TYPE SEQUENCE NUMBERING: GENERAL NOTES + LEGENDS FLOOR PLANS EXTERIOR ELEVATIONS EXTERIOR SECTIONS ENLARGED PLANS, ELEVATIONS, SECTIONS DETAIL DRAWINGS

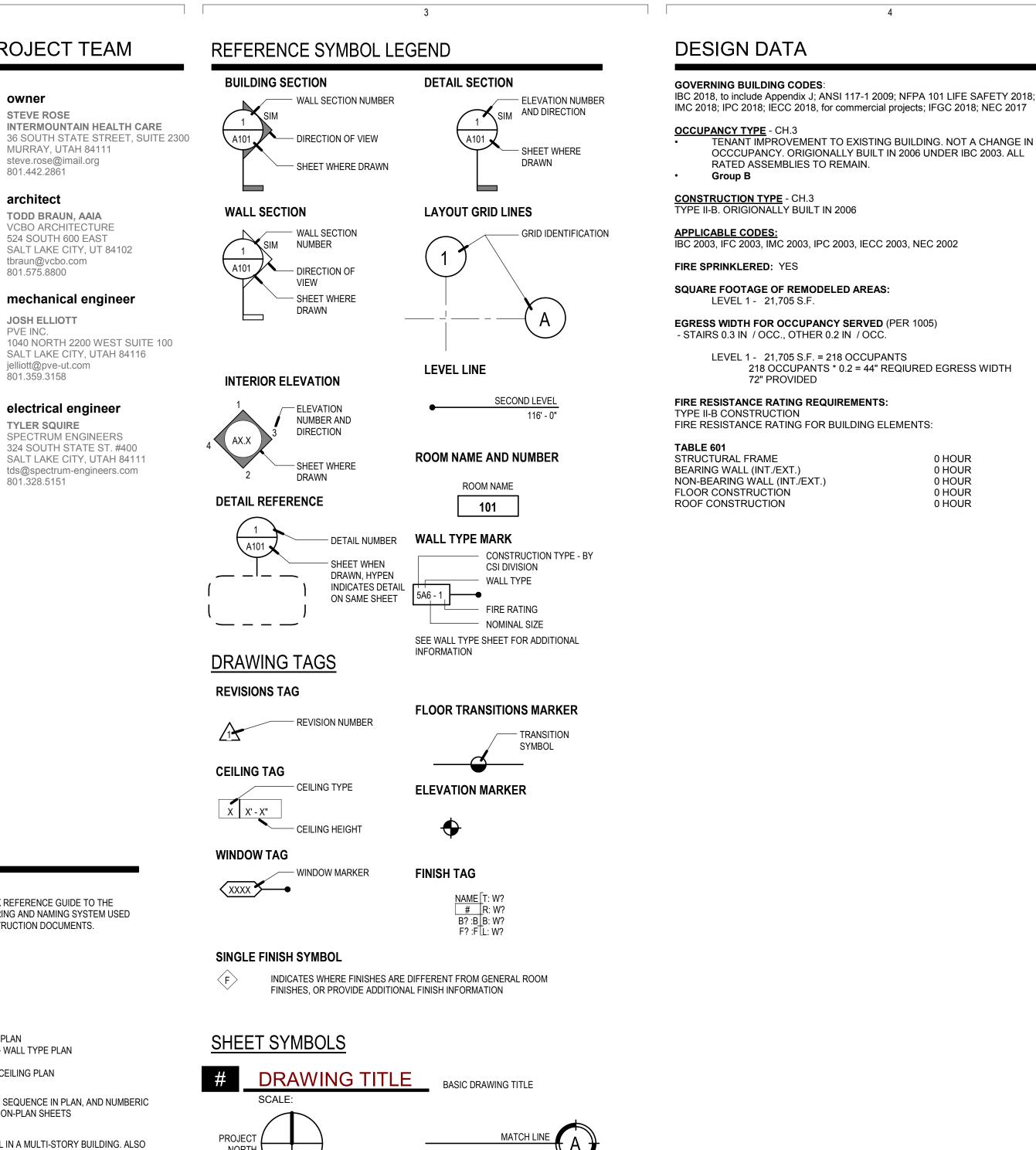
7 SIGNAGE

8 USER DEFINED

9 3D DRAWINGS + PERSPECTIVES

B VICINITY MAP





NORT

6 DOOR, WINDOW, OTHER SCHEDULES

SHEET INDEX

5

GENERAL		MECHANICAL	
CV	COVER	M001	MECHANICAL - GENERAL NOTES AND SCHEDULES
G001	GENERAL INFORMATION + INDEX	M104	MECHANICAL - 4TH FLOOR DEMOLITION PLAN
G301	TYP ANSI ACCESSIBILITY STANDARDS	M204Z	MECHANICAL - 4TH FLOOR ZONING PLAN
		M204	MECHANICAL - 4TH FLOOR PLAN
DEMOLITION		M205	MECHANICAL ROOF PLAN
AD140.1	DEMOLITION PLAN - LEVEL 04	M601	MECHANICAL DETAILS
AD140.4	DEMOLITION RCP - LEVEL 04		
		PLUMBING	
ARCHITECTURAL		P204	PLUMBING 4TH FLOOR PLAN
A140.1	ANNOTATED PLAN - LEVEL 4	UP204D	UTILITIES PIPING - 4TH FLOOR DEMO PLAN
A140.2	DIMENSION + WALL TYPE PLAN - LEVEL 04	UP204	UTILITIES PIPING - 4TH FLOOR PLAN
A140.3	FINISH PLAN - LEVEL 04		
A140.4	REFLECTED CEILING PLAN - LEVEL 04	ELECTRICAL	
A140.5	FURNITURE PLAN - LEVEL 04	EE001	SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES
A400	FINISH LEGEND + SCHEDULE	EE501	ELECTRICAL DETAILS
A401	ENLARGED PLANS + ELEVATIONS	EE701	TYPICAL MOUNTING HEIGHT DETAILS
A402	ENLARGED PLANS + ELEVATIONS	ED104	TYPICAL MOUNTING HEIGHT DETAILS
A500	WALL TYPES + GENERAL NOTES	ED114	LEVEL 04 - CEILING DEMOLITION PLAN
A520	INTERIOR FRAMING DETAILS	EP104	LEVEL 04 - POWER PLAN
A530	CEILING DETAILS	EP602	EQUIPMENT SCHEDULE
A531	CEILING DETAILS	EL104	LEVEL 04 - LIGHTING PLAN
A560	DOOR + WINDOW DETAILS	EL601	INTERIOR LIGHTING FIXTURE SCHEDULE
A562	INTERIOR STOREFRONT GLAZING DETAILS	EL602	LIGHTING CONTROL SCHEDULES
A565	BUTT GLAZING DETAILS	ET001	TELECOM SCHEDULES AND NOTES
A570	CASEWORK DETAILS	ET104	LEVEL 04 - TELECOM PLAN
A571	INTERIOR PLAN & FINISH DETAILS	ET401	ENLARGED TELECOM PLANS
A600	DOOR SCHEDULE + ELEVATIONS	ET501	TELECOM EQUIPMENT RACK ELEVATIONS
A700	SIGNAGE SCHEDULE + PLANS	ET502	TELECOM DETAILS
		ET503	TELECOM DETAILS
		ET504	TELECOM DETAILS
		ET505	TELECOM EQUIPMENT RACK GROUNDING DETAIL
		ET601	TELECOM RISER DIAGRAM
		EY001	SECURITY COVER SHEET

EY104

EY601

EJ104

EJ601

TA001

TA601

TM001

Grand total: 60

LEVEL 04 - AUXILIARY PLAN

AUXILIARY RISER DIAGRAMS

LEVEL 04 - AUDIO VISUAL ROUGH-IN PLAN

SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES

SOUND MASKING DETAILS, DIAGRAMS, NOTES, AND SCHEDULE

AUDIO VISUAL SYSTEMS DETAILS AND DIAGRAMS

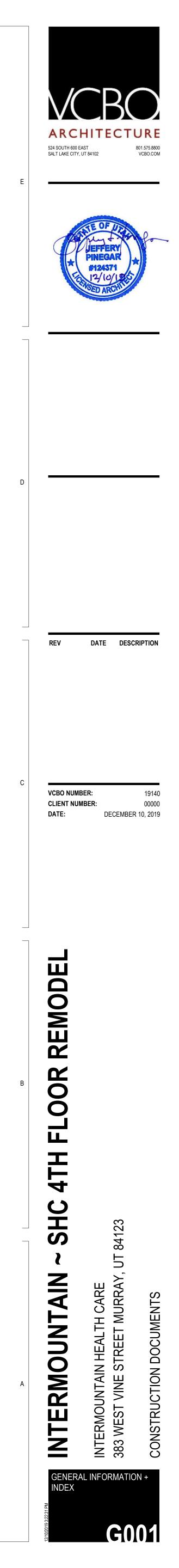
AUDIO VISUAL ROUGH-IN SCHEDULES

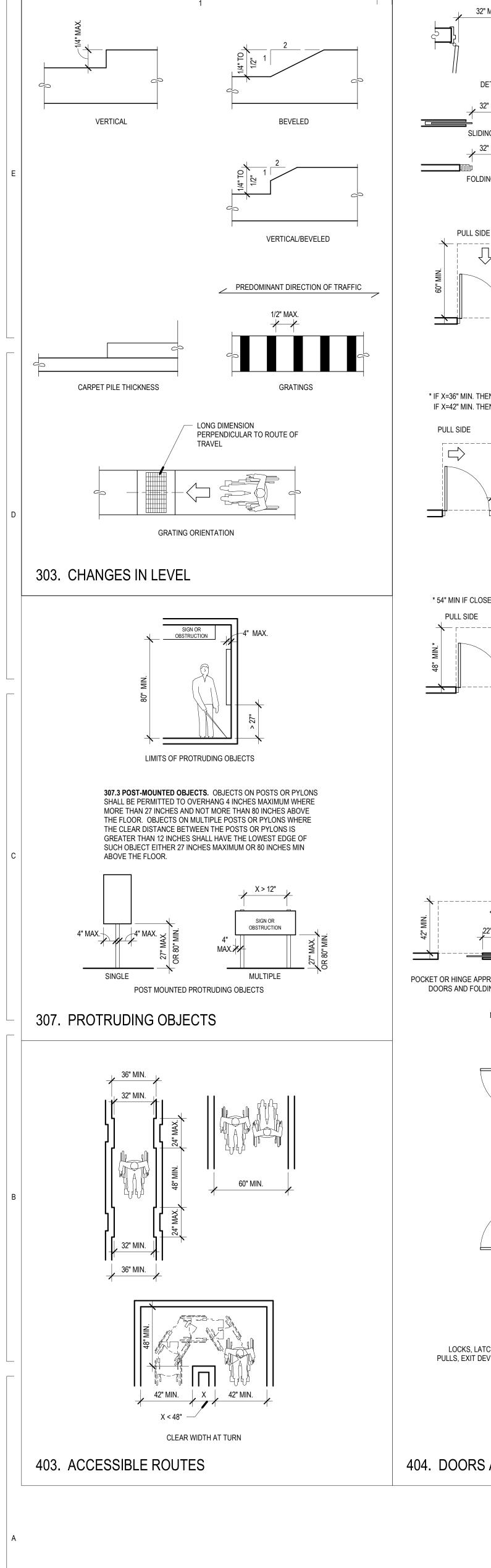
GENERAL NOTES

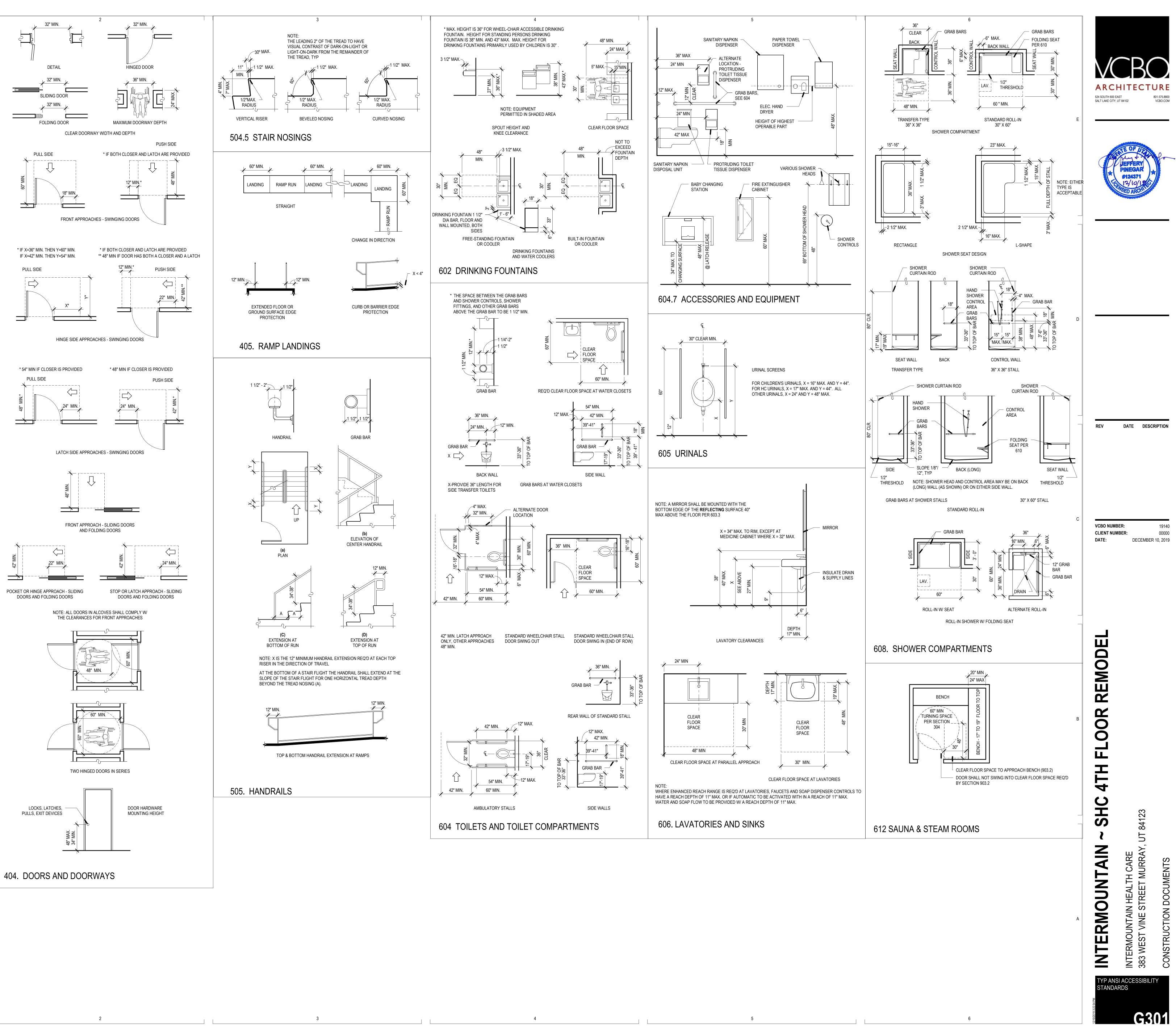
- 1. IT IS THE CONTRACTORS RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS. TRADES AND SUPPLIERS WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.
- 2. AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES AND SUPPLIERS, THE CONTRACTOR SHALL ENDEAVOR TO IDENTIFY AND NOTIFY THE ARCHITECT OF ANY CONFLICTS BETWEEN THE WORK OF DIFFERENT PARTIES AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK. ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE ARCHITECT.
- 3. THE ARCHITECTURAL DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL EXPOSED ELEMENTS OF THE WORK OF ALL THE TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON DRAWINGS OF OTHER DISCIPLINES. QUANTITIES ARE TO BE PROVIDED AS SHOWN ON DRAWINGS OF OTHER DISCIPLINES BUT LOCATIONS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS. THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL PARTS OF THE WORK.
- 4. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF WORK AT THE APPROXIMATE LOCATION SHOWN; DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN OR MAY BE DERIVED FROM THOSE SHOWN ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND SPECIFICATIONS. IF DIMENSIONS ARE NOT PRESENT. THE ARCHITECT IS TO BE NOTIFIED SO THAT A CLARIFICATION CAN BE ISSUED.
- 5. CONTRACTOR TO FOLLOW CURRENT ANSI 117-1 STANDARDS AS REPRESENTED ON SHEET G301, GENERAL ACCESSIBILITY GUIDELINES. NOTIFY ARCHITECT IF THE DESIGN DRAWINGS CONFLICT WITH THIS SHEET.

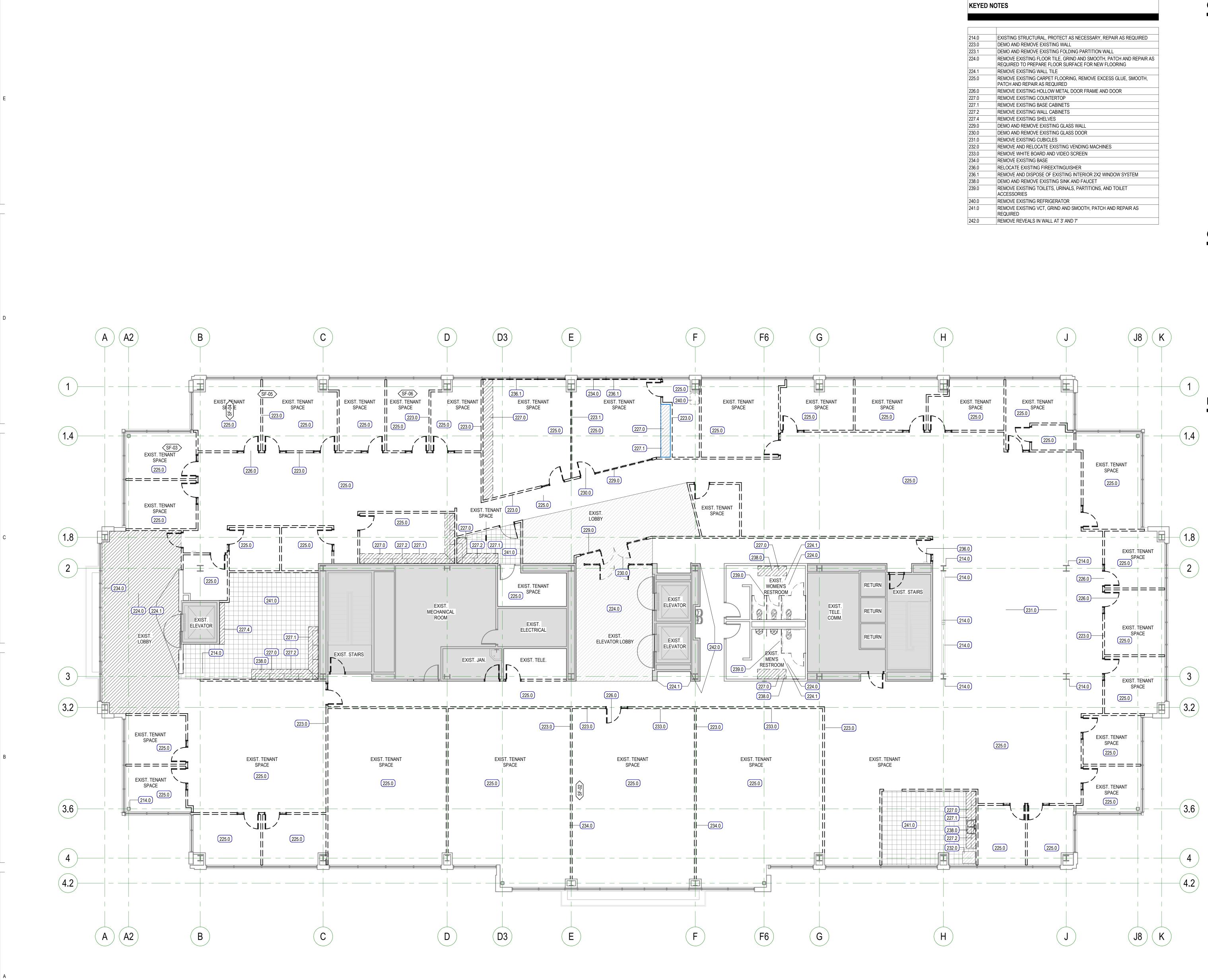
NOTES TO BIDDERS

- 1. THIS SHEET CONTAINS A LIST OF DRAWINGS WHICH COMPRISE A FULL SET OF DRAWINGS FOR THIS PROJECT. ANY CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT SHALL BE RESPONSIBLE FOR THE INFORMATION CONTAINED IN ANY AND ALL SHEETS OF DRAWINGS AND SPECIFICATIONS. IF ANY PERSON, PARTY OR ENTITY ELECTS TO SUBMIT BIDS FOR ANY PORTION, OR ALL, OF THIS PROJECT, THAT PERSON, PARTY OR ENTITY SHALL BE RESPONSIBLE FOR ANY AND ALL INFORMATION CONTAINED IN THESE DRAWINGS AND SPECIFICATIONS, INCLUDING, BUT NOT LIMITED TO, ANY SUBSEQUENT ADDENDUMS OR CLARIFICATIONS THAT MAY BE ISSUED.
- 2. THESE DOCUMENTS SHOW THE DESIGN INTENT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE EVERYTHING SHOWN ON THE DRAWINGS OR SPECIFIED REGARDLESS OF WHERE IT IS SHOWN ON THE DRAWINGS OR IN THE SPECIFICATIONS. FOR EXAMPLE; SOME MILLWORK DETAILS HAVE STEEL FRAMES WHICH MAY BE PROVIDED BY DIVISION 05 OR WITH THE MILLWORK AT THE CONTRACTOR'S DISCRETION, BUT IT SHALL BE PROVIDED AS PART OF THE CONTRACT.
- 3. EVERYTHING CALLED FOR IN THESE DOCUMENTS SHALL BE "NEW" AND PROVIDED BY THE CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT UNLESS NOTED OTHERWISE AS EXISTING (EXIST), NOT IN CONTRACT (NIC) OR FOR REFERENCE ONLY. FURNISHINGS SHOWN DASHED SHALL BE FOR REFERENCE ONLY.









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A1 PLAN - LEVEL 04 - DEMOLITION SCALE: 1/8" = 1'-0"

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KEYED	NOTES
214.0	EXISTING STRUCTURAL, PROTECT AS NECESSARY, REPAIR AS REQUIRED
223.0	DEMO AND REMOVE EXISTING WALL
223.0	DEMO AND REMOVE EXISTING FOLDING PARTITION WALL
223.1	REMOVE EXISTING FLOOR TILE, GRIND AND SMOOTH, PATCH AND REPAIR A
	REQUIRED TO PREPARE FLOOR SURFACE FOR NEW FLOORING
224.1	REMOVE EXISTING WALL TILE
225.0	REMOVE EXISTING CARPET FLOORING, REMOVE EXCESS GLUE, SMOOTH,
	PATCH AND REPAIR AS REQUIRED
226.0	REMOVE EXISTING HOLLOW METAL DOOR FRAME AND DOOR
227.0	REMOVE EXISTING COUNTERTOP
227.1	REMOVE EXISTING BASE CABINETS
227.2	REMOVE EXISTING WALL CABINETS
227.4	REMOVE EXISTING SHELVES
229.0	DEMO AND REMOVE EXISTING GLASS WALL
230.0	DEMO AND REMOVE EXISTING GLASS DOOR
231.0	REMOVE EXISTING CUBICLES
232.0	REMOVE AND RELOCATE EXISTING VENDING MACHINES
233.0	REMOVE WHITE BOARD AND VIDEO SCREEN
234.0	REMOVE EXISTING BASE
236.0	RELOCATE EXISTING FIREEXTINGUISHER
236.1	REMOVE AND DISPOSE OF EXISTING INTERIOR 2X2 WINDOW SYSTEM
238.0	DEMO AND REMOVE EXISTING SINK AND FAUCET
239.0	REMOVE EXISTING TOILETS, URINALS, PARTITIONS, AND TOILET ACCESSORIES
240.0	REMOVE EXISTING REFRIGERATOR
241.0	REMOVE EXISTING VCT, GRIND AND SMOOTH, PATCH AND REPAIR AS REQUIRED
242.0	REMOVE REVEALS IN WALL AT 3' AND 7'
	I

GENERAL DEMOLITION NOTES

- 1. FIELD VERIFY DIMENSIONS AND CONDITIONS INCLUDING EXISTING UTILITIES PRIOR TO BIDDING. BRING DIFFERING DIMENSIONS AND
- CONDITIONS TO ARCHITECT'S ATTENTION PRIOR TO BIDDING. 2. PROVIDE DUSTPROOF ENCLOSURES AT PERIMETER OF CONSTRUCTION & DEMOLITION FOR PROTECTION OF ADJACENT
- SPACES. 3. COORDINATE MAINTENANCE OF FIRE EGRESS FOR OCCUPANTS IN EXISTING BUILDING WITH THE OWNER AND FIRE MARSHAL.
- PROVIDE NECESSARY TEMPORARY WALLS OR ENCLOSURES, EMERGENCY LIGHTS, ETC., FOR THE DURATION OF CONSTRUCTION. 4. BRING TO ARCHITECT'S ATTENTION EXISTING CONDITIONS THAT
- PRESENT ANY CODE VIOLATIONS, INCORRECT CONSTRUCTION OR SAFETY PROBLEMS. 5. MAINTAIN EXISTING FIRE RATINGS, AND ASSOCIATED FIRE PROTECTION SYSTEMS (I.E. FIRE SPRINKLERS AND FIRE ALARM SYSTEMS) THROUGHOUT CONSTRUCTION. COORDINATE ANY INTERRUPTION TO THESE SYSTEMS WITH THE OWNER AND FIRE
- MARSHAL. PROVIDE FIRE WATCH REQUIREMENTS ASSOCIATED WITH INTERRUPTIONS TO THESE SYSTEMS. 6. PROTECT EXISTING STRUCTURE, FINISHES, AND SITE ELEMENTS NOT SCHEDULED FOR DEMOLITION. RESTORE DAMAGED ITEMS TO
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- REQUIREMENTS. 8. SALVAGE MATERIAL WHERE INDICATED. REMOVE ITEMS FROM
- CURRENT LOCATIONS & PREPARE FOR TRANSPORT BY THE OWNER. 9. AS SOME DEMOLITION WORK IS SPECIFIC TO DIVISION 22, 23, 26, THE CONTRACTOR SHALL CROSS REFERENCE WITH ELECTRICAL AND MECHANICAL PLANS FOR ADDITIONAL DEMOLITION WHICH IS REQUIRED, BUT NOT REFLECTED ON ARCHITECTURAL DRAWINGS.

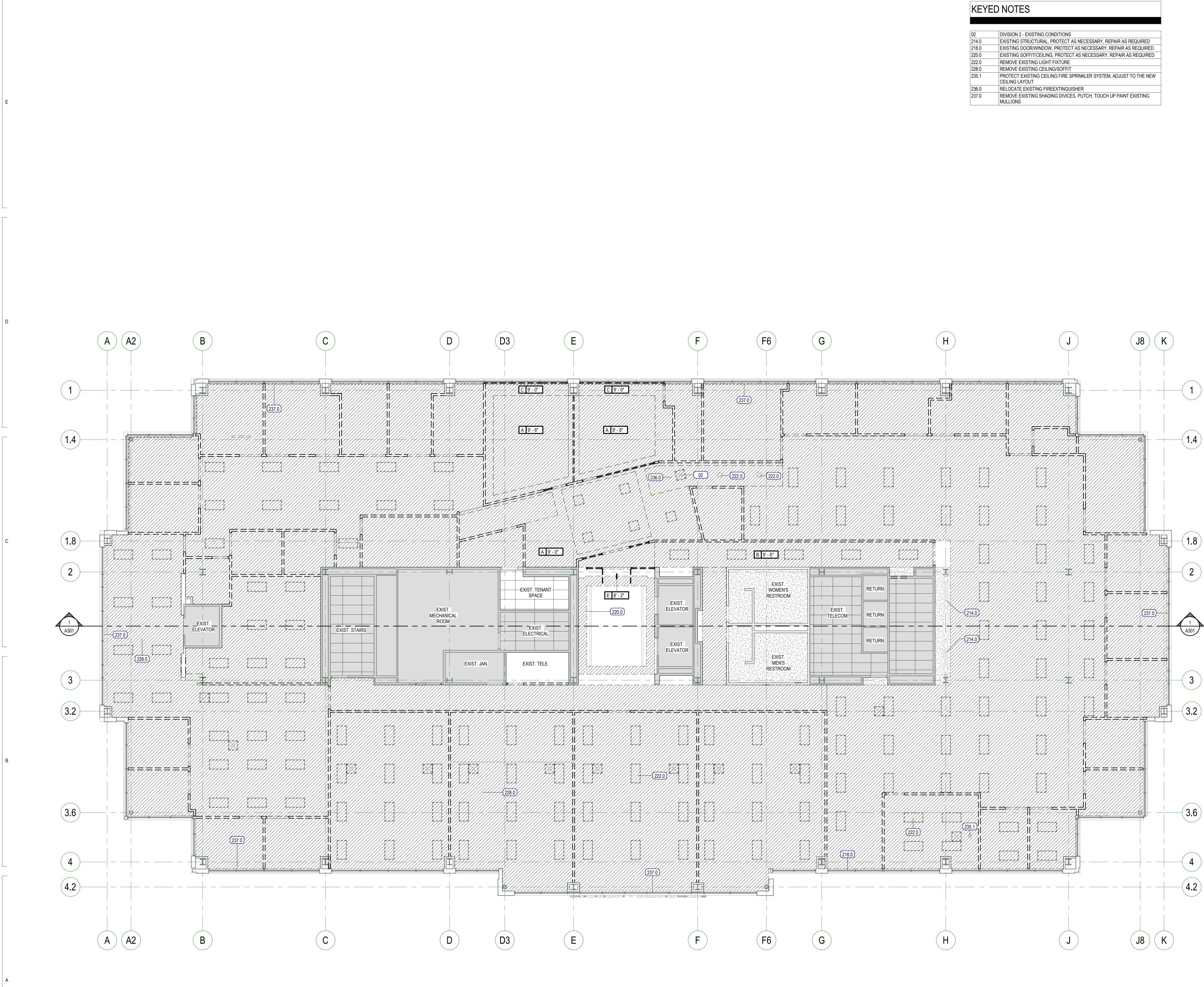
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- WALL COVERING. 5. PATCH & LEVEL EXISTING CONCRETE SLABS FOR NEW FINISHES WITH
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- 9. CAP EXISTING DUCT WORK FOR DUST CONTROL. 10. ALL EXISTING COLUMN WRAPS TO REMAIN UNLESS NOTED. 11. EXISTING THERMOSTATS TO BE SALVAGED FOR FUTURE USE. IF THEY ARE ON A WALL THAT IS TO REMAIN, LEAVE IN PLACE AND PROTECT AS REQUIRED.

DEMOLITION LEGEND

HALF-TONE LINE DENOTES ITEMS TO REMAIN _ _ _ _ _ DASHED LINE DENOTES ITEMS TO BE DEMOLISHED AREA TO REMAIN UNDISTURBED DURING CONSTRUCTION

ARCHITECTURE 524 SOUTH 600 EAST SALT LAKE CITY, UT 84102 801.575.8800 VCBO.COM REV DATE DESCRIPTION VCBO NUMBEI **CLIENT NUMBER:** 00000 DECEMBER 10, 2019 DATE: REMODE OOR 41 C Ĭ S AIN **INTERMOUNT** INTERMOUNTAIN HEALTH C 383 WEST VINE STREET MU CONSTRUCTION DOCL **DEMOLITION PLAN - LEVEL** AD140.1



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A1 PLAN - LEVEL 04 - RCP DEMOLITION SCALE: 1/8" = 1'-0"

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KEYE	ED NOTES
02	DIVISION 2 - EXISTING CONDITIONS
214.0	EXISTING STRUCTURAL, PROTECT AS NECESSARY, REPAIR AS REQUIRED
218.0	EXISTING DOOR/WINDOW, PROTECT AS NECESSARY, REPAIR AS REQUIRED
220.0	EXISTING SOFFIT/CEILING, PROTECT AS NECESSARY, REPAIR AS REQUIRED
222.0	REMOVE EXISTING LIGHT FIXTURE
228.0	REMOVE EXISTING CEILING/SOFFIT
235.1	PROTECT EXISTING CEILING FIRE SPRINKLER SYSTEM, ADJUST TO THE NEW CEILING LAYOUT
236.0	RELOCATE EXISTING FIREEXTINGUISHER
237.0	REMOVE EXISTING SHADING DIVICES, PUTCH, TOUCH UP PAINT EXISTING MULLIONS

GENERAL DEMOLITION NOTES

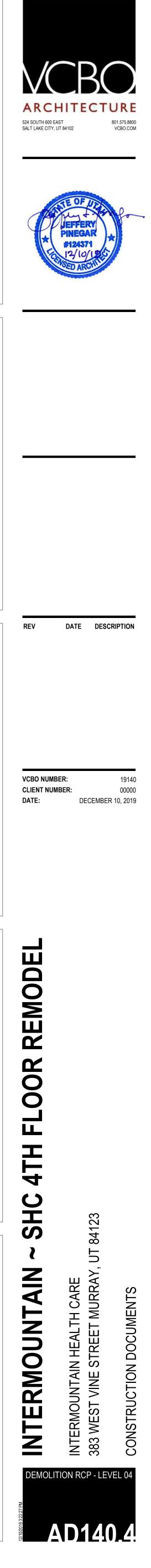
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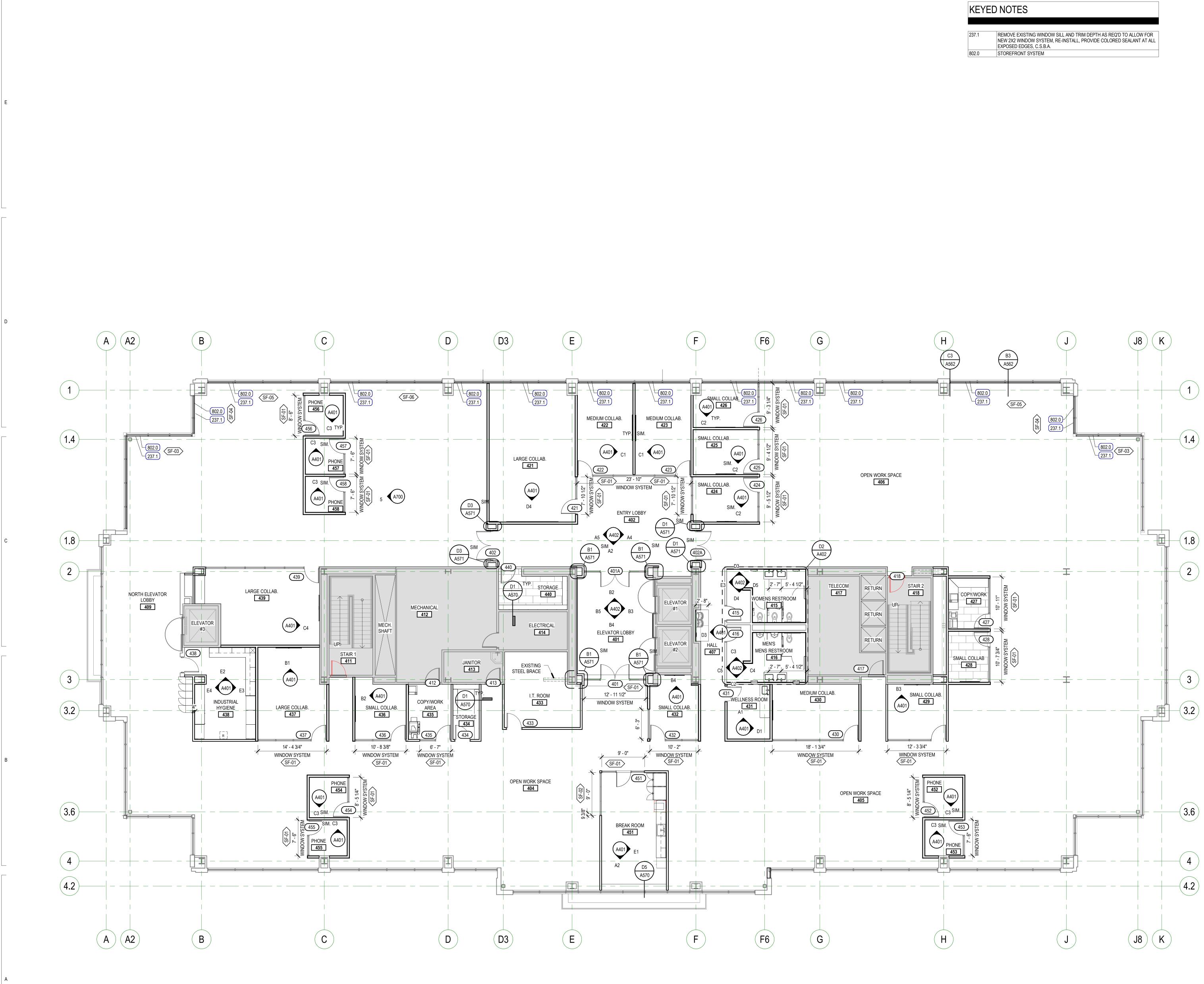
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A1 PLAN - LEVEL 04 - ANNOTATED SCALE: 1/8" = 1'-0"

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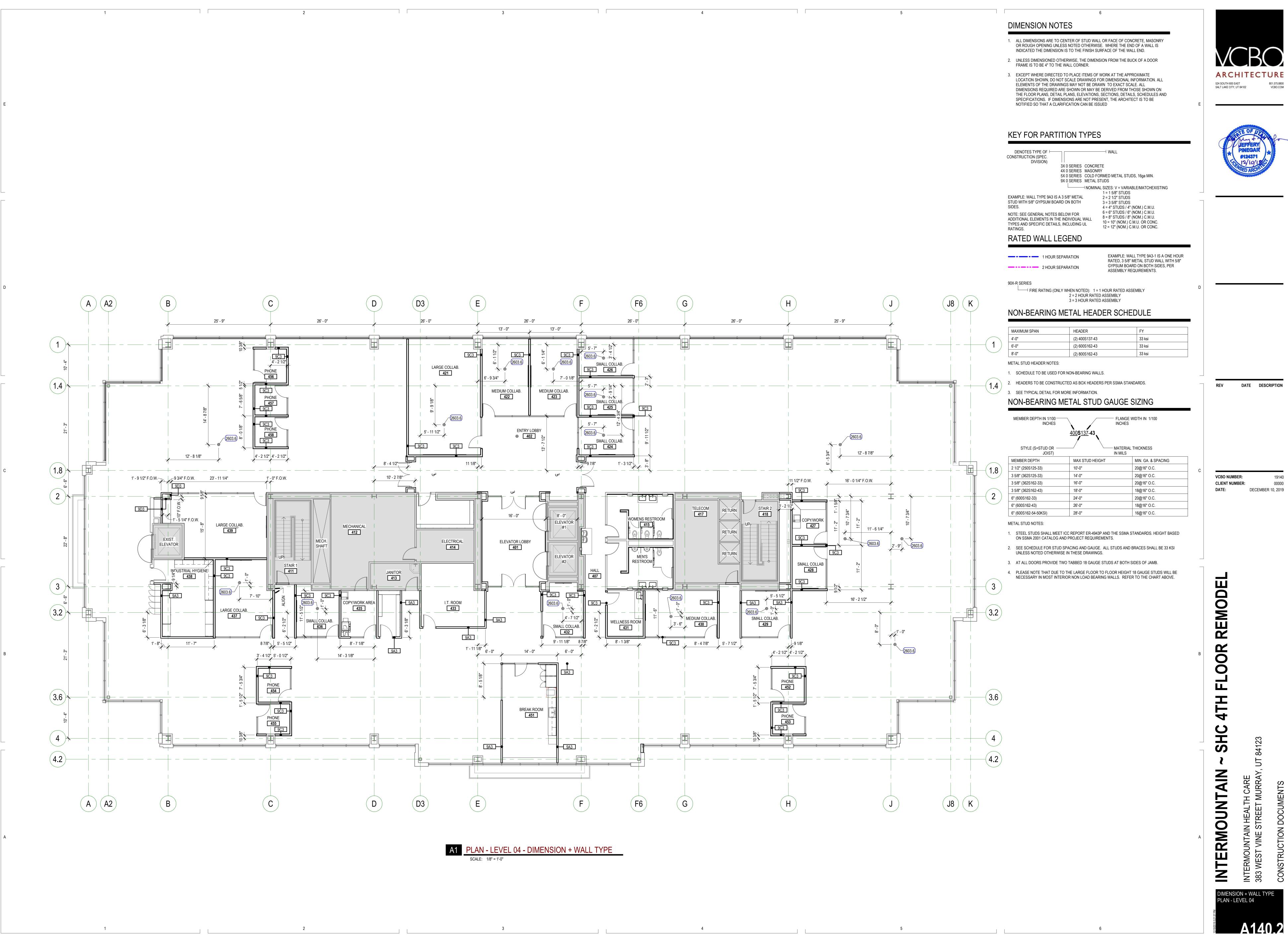
PARTITION + FRAMING GENERAL NOTES

FRAMED WALL PARTITIONS

1. PARTITION TYPE INDICATIONS ARE INDEPENDENT OF APPLIED FINISHES. SEE FINIS INTERIOR ELEVATIONS FOR WALL FINISHES INCLUDING TILE COURSING AND LAYO DESIGNATIONS ON THE PLANS FOR ADDITIONAL INFORMATION REGARDING APPLI

- 2. WHERE PARTITION TYPE DESIGNATION ON FLOOR PLANS IS INTERRUPTED BY DOC GLAZED PARTITION, ETC., CONSTRUCTION ABOVE INTERRUPTION (AND WHERE AP IS TO BE THE SAME AS THAT DESIGNATED FOR THE PARTITION IN WHICH THE INTE OCCURRED.
- 3. THE MINIMUM REQUIREMENTS FOR CONSTRUCTION OF EACH PARTITION TYPE AS THE INDICATED REFERENCE ARE INCORPORATED BY REFERENCE AND ARE APPLIC WORK OF THIS PROJECT. HOWEVER, ADDITIONAL AND/OR MORE RESTRICTIVE REC BE INDICATED BY THE SPECIFICATIONS AND DRAWINGS. SUCH REQUIREMENTS A SHALL GOVERN. SUCH REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO:
- a. USE 5/8" THICK GYPSUM BOARD THROUGHOUT UNLESS NOTED OTHERWISE. b. USE 16" OC MAX STUD SPACING UNLESS NOTED OTHERWISE IN THESE DOCUM SPACING STATED BY THE REFERENCED APPROVAL OR EST REPORT IS THE M. ALLOWED IN THESE DOCUMENTS.
- c. USE STUDS OF GAUGE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATI STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM (GA (30 MILS) IS THE MINIMUM ALLOWED IN THESE DOCUMENTS. 4. USE STUDS OF DEPTH INDICATED BY THIS SET OF DOCUMENTS. THE DEPTH STAT
- REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM DEPTH TESTED DEPTI THESE DOCUMENTS. SEE STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATI TO THE CONSTRUCTION OF CONCRETE, MASONRY AND STUD WALLS
- 5. PROVIDE FIRE RATED CONSTRUCTION ASSEMBLIES WHERE INDICATED ON SHEET FLOOR PLAN DRAWINGS.
- 6. ALL DIMENSIONS ARE CENTER OF STUD OR FACE OF CONCRETE, MASONRY OR RC UNLESS NOTED OTHERWISE. FACE OF FINISHED WALL WILL BE NOTED AS FOW.
- 7. AT ALL INTERIOR WALLS, STUDS, INSULATION AND GYPSUM BOARD ARE TO EXTEN ABOVE. UNLESS NOTED OTHERWISE.
- 8. WALL TYPES NOT NOTED ARE ASSUMED TO MATCH ADJACENT ROOMS. SEE SHEE NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- 9. ALL METAL STUD PARTITIONS ARE CONSIDERED ACOUSTIC PARTITIONS AND ARE TYPE 1 SOUND ATTENUATION BLANKET. THICKNESS TO MATCH STUD DEPTH, UNLE OTHERWISE.
- 10. REFER TO SHEET AXXX FOR TYPICAL INTERIOR WALL CONDITIONS ASSOCIATED V STUD PARTITIONS.
- 11. PROVIDE CONTROL JOINTS IN METAL FRAMED WALLS AT APPROXIMATELY 30 FEET LOCATE AT CORNER ABOVE DOORS OR INSIDE CORNER OF PILASTERS OR OTHER LOCATION WHERE POSSIBLE. CONSULT WITH ARCHITECT PRIOR TO COMMENCING INSTALL PER DETAILS XX, XX AND XX/ AXXX FOR CONTROL JOINTS.
- 12. AT WALL OPENINGS FOR PENETRATION OF PIPES, DUCTS, DEVICES, ETC., GYPSUI CUT TO MATCH THE SHAPE AND DIMENSION OF THE PENETRATING OBJECT AND T THE OBJECT AND THE WALL IS TO BE SEALED W/ ACOUSTICAL OR FIRE SEALANT (A 3/4" JOINT AT ALL SIDES, MAXIMUM. THE OPENING FOR DUCTS OR LARGE PENET FRAMED WITH A HEADER, ADD AN ANGLED CORNER BRACE IF THE GAP EXCEEDS 3 TO THE OPENING.
- 13. PROVIDE BLOCKING / BACKING FOR ALL WALL MOUNTED EQUIPMENT. SEE FLOOR INTERIOR ELEVATIONS FOR CABINETS, GRAB BARS ETC. INSTALL BLOCKING AS DE REQUIRED TO MOUNT SUCH DEVICES. ALL BLOCKING IS TO BE FIRE RETARDANT T PER SHEET <u>A570</u>.
- 14. WHERE THERE IS LIMITED WATER EXPOSURE: INSTALL ONE LAYER OF 5/8" TYPE X RESISTANT GYPSUM BOARD PER ASTM C1396 (WHERE GYPSUM BOARD OCCURS) (PARTITION AT THE FOLLOWING LOCATIONS:
- a. WITHIN 2 FEET HORIZONTALLY AND 4 FEET VERTICALLY OF JANITORS SINKS b. AT OTHER LOCATIONS, I.E. TOILET ROOMS AND KITCHENS, AND AS INDICATED ARCHITECTURAL FINISH PLANS AND ELEVATIONS.
- 15. INSTALL ONE LAYER OF 5/8" GLASS MAT TILE BACKER BOARD IN LIEU OF GYPSUM B GYPSUM BOARD OCCURS) OF BASIC PARTITION WHERE THERE IS NO FIRE RATING GYPSUM BOARD FACE LAYER AT FIRE RATED PARTITIONS AT THE FOLLOWING LC
- 16. AT WET LOCATIONS, SUCH AS SHOWER STALLS AND TUB SURROUNDS. a. WHERE CERAMIC TILE FINISHES ARE INDICATED PER THE FINISH PLANS AND/OR INTERIOR ELEVATIONS. b. AT OTHER LOCATIONS AS INDICATED BY THE ARCHITECTURAL FINISH PLANS
- 17. WHERE NEW WALLS OR FURRING ARE INDICATED TO BE DIMENSIONED OFF OF AN THE NEW WALL SHALL BE STRAIGHT AND PLUMB REGARDLESS OF THE CONDITION WALL.
- 18. SEE DETAIL XX AND XX ON SHEET AXXX FOR TYPICAL FIRE EXTINGUISHER CABINE DETAILS

A	NTERMOUNTAIN ~ SHC 4TH FLOOR REMODEL	INTERMOUNTAIN HEALTH CARE 383 WEST VINE STREET MURRAY, UT 84123	CONSTRUCTION DOCUMENTS
В	Ο	33	
B	Ο		
C	VCBO NUM CLIENT NU DATE:		19140 00000 10, 2019
S AND ELEVATIONS. AN EXISTING WALL, DN OF THE EXISTING NET INSTALLATION			
M BOARD (WHERE NG AND OVER OCATIONS.			
S) OF BASIC] REV	DATE DESCI	RIPTION
TREATED. INSTALL			
ON ALL SIDES WITH ETRATIONS SHALL BE S 3" FROM FRAMING OR PLANS AND DETAILED OR AS			
NG FRAMING. D SUM BOARD IS TO BE THE GAP BETWEEN			
WITH ALL METAL ET ON CENTER. ER INCONSPICUOUS			
E TO RECEIVE A ILESS NOTED			
EETS FOR FINISHES,			
END TO THE DECK			
ETS G100's AND — ROUGH OPENING			
ATED BY THE PTH ALLOWED IN ATION PERTAINING		12/10/1905	
UMENTS. THE MAX SPACING IF NTIONS. THE GAUGE M GAUGE TESTED, 20		JEFFERY PINEGAR	for
LICABLE TO THE EQUIREMENTS MAY ALSO APPLY AND E			
AS EXPRESSED BY	524 SOUTH 600 E SALT LAKE CITY		JRE 801.575.8800 VCBO.COM
	V		
OOR OPENING, APPLICABLE BELOW)			
NISH SHEETS AND 'OUT AND/OR THE LIED FINISHES. OOR OPENING, APPLICABLE BELOW) TERRUPTION			





MARK	DESCRIPTION	MANUFACTU
	DESCRIPTION	
FLOOR		
F1	CARPET TILE	SHAW CONTACT
F2	CARPET TILE - ACCENT	SHAW CONTACT
F3	PORCELAIN TILE	DALTILE
F4	LUXURY VINYL TILE	MANNINGTON COMMER
F5	STATIC DISSIPATIVE	FLEXCO
BASE		
BAGE B1	RUBBER BASE	ROPPE
B2	NOT USED	
B3	ALUMINUM COVE BASE FOR TILE	SCHLUTER SYSTEMS
PAINT		
P1	GENERAL PAINT	SHERWIN WILLIAMS
P2	ACCENT PAINT - GRAY	SHERWIN WILLIAMS
P3	ACCENT PAINT - BLUE	SHERWIN WILLIAMS
P4	ACCENT PAINT - YELLOW	SHERWIN WILLIAMS
SURFACE		
SIN ACL	QUARTZ COUNTERTOP	CAMBRIA
S2	PLASTIC LAMINATE FOR MILLWORK	WILSONART
S3	ACOUSTIC PANELS	AUTEX
WALL		1
W1	WALL COVERING	MAHARAM
W2	WALL TILE - DRINKING FOUNTAINS	DALTILE
W3	TILE BACKSPLASH; ELEVATOR LOBBY	DALTILE
W4	WALL TILE - RESTROOMS	DALTILE
W5	ACCENT TILE - RESTROOMS	DALTILE
WOOD		
WD1	PLAIN SLICED WALNUT	GRAHAM WOOD DOORS
OTHER		

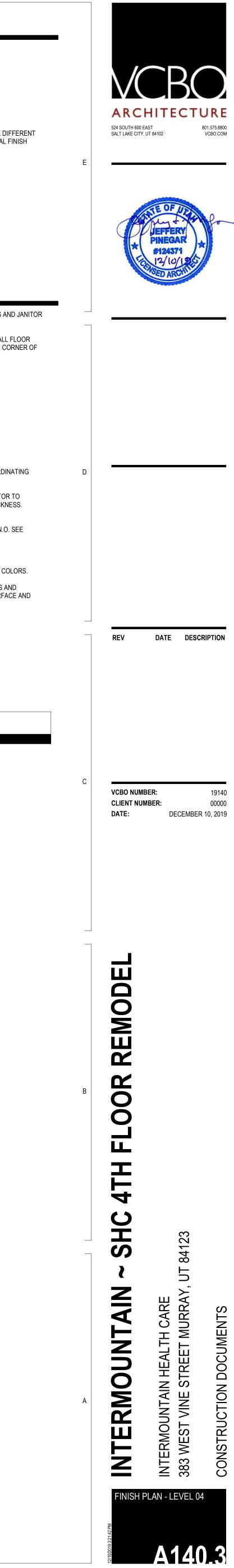
A1 PLAN - LEVEL 04 - FINISH SCALE: 1/8" = 1'-0"

NAME	COLOR	COMMENTS
NAME	COLOR	COMMENTS
HAND DRAWN, STIPPLE TILE 5T116	SLATE 13585	18" X 36" PLANK, ASHLAR INSTALLATION
NOBLE MATERIALS, FORM TILE 5TI36	CORNERSTONE COPPER 33555	24" X 24" SQUARE, STRAIGHT SE
STONE ATTACHE, CONSULATE, ANTIQUE	PREMIER GREY CS05, UNPOLISHED	24" X 48" , ASHLAR TILE INSTALLATION
NATURE'S PATHS	WINDSOR OAK, ASHEN 12372-6"	6" X 36" PLANK, ASHLAR INSTALLATION
DELANE	GRAY/DARK GRAY 42	24" X 24", MONOLITHIC INSTALLATION
PINNACLE RUBBER BASE	DOLPHIN 129	4" STANDARD COVE TOE
DILEX-AHK	SATIN ANODIZED ALUMINUM	3/8" RADIUS
	SW 7009, PEARLY WHITE	SEMI GLOSS FINISH
	SW 7018, DOVETAIL	SEMI GLOSS FINISH
	SW 2740, MINERAL GRAY	SEMI GLOSS FINISH
	SW 6684, BRITTLEBUSH	SEMI GLOSS FINISH
	700000	
	TORQUAY	MATTE FINISH
HIGH PRESSURE LAMINATE	WALNUT HEIGHTS, 7965K-12	SOFT GRAIN FINISH
CUBE 1/2"	OPERA	PHONE ROOM ACOUSTIC TREATMENT, SEE DETAIL A4/A57
NOOK 399913	ROCK 004	
VOLUME 1.0 GLAZED PORCELAIN	DEGREES SILVER VL71	12" x 12", MONOLITHIC INSTALLATION, GROUT: MAPEI PEWTER 02
LIMESTONE MOSAIC, POLISHED MODERN	CHENILLE WHITE L191	IRREGULAR MOSAIC, GROUT: MAPEI, PEWTER 02
POLARIS, PL02	GLOSS WHITE	9" X 12", MONOLITHIC INSTALLATION, GROUT: MAPEI, WHITE 00
STONE RADIANCE	GLACIER GRY MAR SA59; SATIN FINISH	
PLAIN SLICED BLACK WALNUT	FALLOW #125	CLEAR FINISH

INISH PL	-AN SYMBOLS
	BASE HR: W? FLOOR B?:B B: W? F?:F L: W?
F	SINGLE FINISH SYMBOLS INDICATE WHERE FINISHES ARE DI FROM GENERAL ROOM FINISHES, OR PROVIDE ADDITIONAL INFORMATION
\bigcirc	CHANGE AT FLOOR MATERIAL
XXXX	SIGNAGE TAG- SEE SIGNAGE SHEETS FOR DETAILS
<u></u>	FINISH DIRECTION
	CORNER GUARD LOCATION
ENERAL	FINISH NOTES
PROVIDE EPC CLOSETS.	DXY PAINT AT ALL RESTROOMS, SHOWERS, LOCKER ROOMS AN
	RANSITIONS TO BE LOCATED AT CENTER OF DOOR, U.N.O. ALL AT FLOOR TILE (F3) LOCATIONS TO BE LOCATED AT INSIDE CO
ALL GROUT JO	DINTS TO BE NO LARGER THAN 1/8".
FIELD VERIFY	ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK.
COORDINATE	ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
SEE ELEVATIO	ON SHEETS FOR ALL WALL TILE PATTERNS.
AT SOFFITS R	RECEIVING COLOR- PAINT ALL SIDES OF SOFFIT.
	F CG CG ENERAL PROVIDE EPC CLOSETS. ALL FLOOR TH TRANSITIONS DOOR. ALL GROUT JO FIELD VERIFY COORDINATE SEE ELEVATIO

- 8. ALL WOOD TRIM TO BE STAINED TO MATCH DOOR STAIN.
- 9. ALL COUNTERTOP, BACKSPLASHES, AND EDGE BANDING TO HAVE COORDINATING FINISHES. 10. PROVIDE A SMOOTH TRANSITION AT ALL FLOOR MATERIALS - CONTRACTOR TO
- INSTALL ALL FLOOR FINISHES AT SAME LEVEL, DESPITE DIFFERENT THICKNESS. PROVIDE FLOOR TRANSITION WHERE OCCURS.
- 11. ALL WALLS RECEIVING TILE WAINSCOT TO RECEIVE PAINT P1 ABOVE, U.N.O. SEE FINISH PLANS FOR ACCENT WALL LOCATIONS.
- 12. SEE SHEET A571 FOR FLOORING TRANSITION DETAILS.
- 13. SEE DOOR AND WINDOW SHEET A600 FOR H.M. DOOR AND FRAME PAINT COLORS. 14. AT ALL TILE WALLS USE SCHLUTER JOLLEY AT ALL OUTSIDE WALL EDGES AND OUTSIDE CORNERS. SCRIBE BOTTOM TILE TO MATCH FINISH FLOOR SURFACE AND CAULK WITH BASE 'NB'.

KEYED NOTES

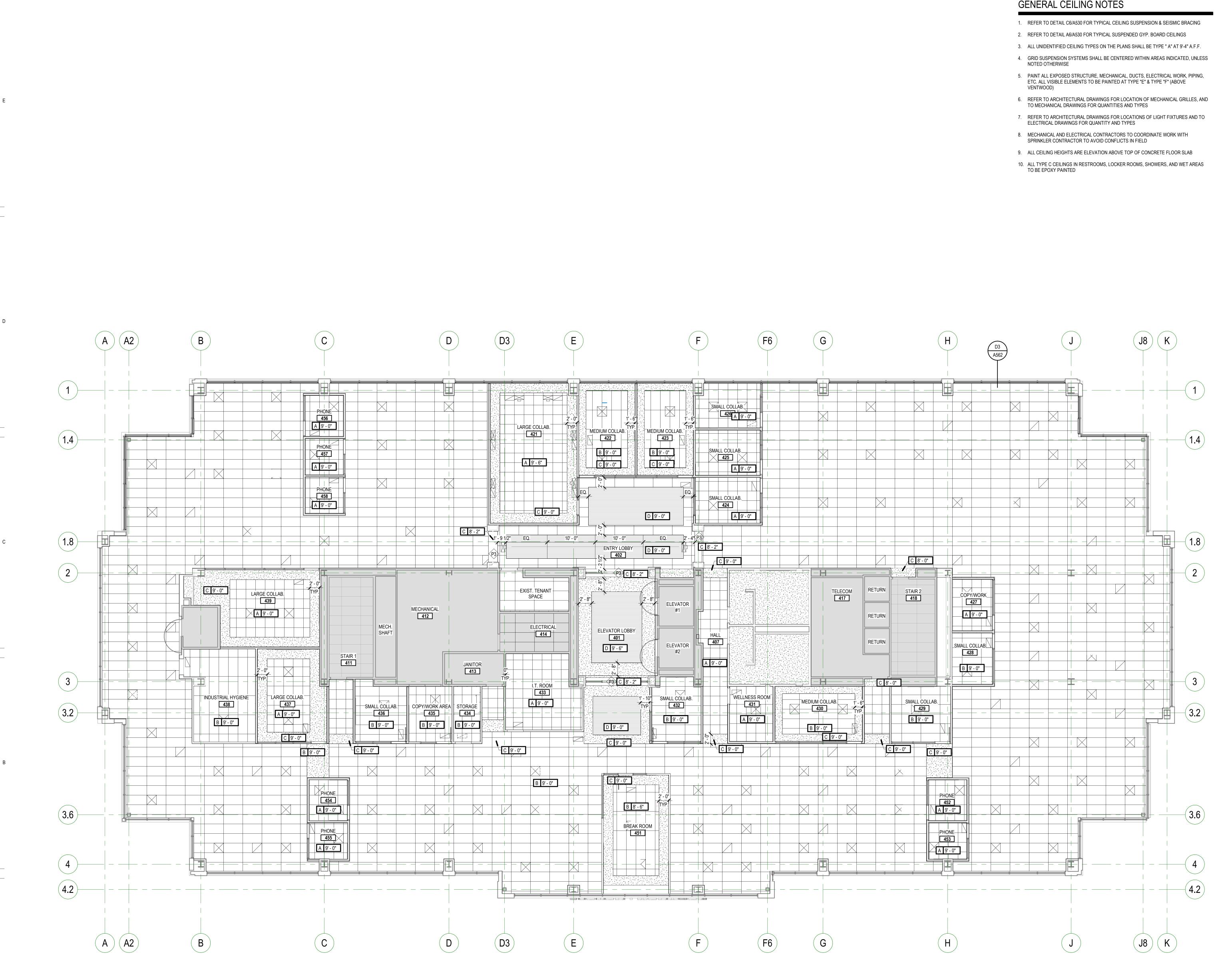


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MEN.

CONSTRUCTION DOCL



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A1 PLAN - LEVEL 04 - RCP SCALE: 1/8" = 1'-0"

GENERAL CEILING NOTES

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CEILING LEGEND

A- SUSPENDED 2' X 2' ACOUSTICAL LAY-IN TILE CEILING (2
B- SUSPENDED 2' X 4' ACOUSTICAL LAY-IN TILE CEILING
C- SUSPENDED 5/8" GYP. BD. CEILING SYSTEM - (1 LAYER) PAINTED
D- VENTED WOOD CEILING SYSTEM WITH 2' X 4' ACOUSTIC BLACK TILE CEILING ABOVE
E- EXISTING CEILING

CEILING SYMBOLS

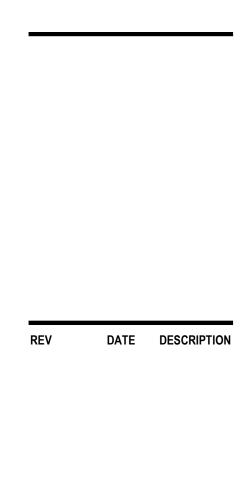
ELECTRICAL	
	2'X4' FLUORESCENT FIXTURE
	2'X2' FLUORESCENT FIXTURE
	1'X4' FLUORESCENT FIXTURE
⊢−−−−− I	FLUORESCENT STRIP FIXTURE
0	RECESSED DOWN LIGHT
\bigcirc	WALL WASH
	1'X4' FLUORESCENT FIXTURE
\otimes	EXIT SIGN, SINGLE-SIDED
\otimes	EXIT SIGN, DOUBLE-SIDED
F	FIRE ALARM
S	SPEAKER
P	SMOKE DETECTOR
W	WIRELESS INTERNET
MECHANICAL	
\square	SUPPLY GRILLE
	RETURN GRILLE
	EXHAUST GRILLE
	LINEAR DIFFUSER
\otimes	SPRINKLER HEAD - CEILING MOUNT
⊽	SPRINKLER HEAD - WALL MOUNT

(2ND LOOK)

STICAL LAY-IN







VCBO NUMB **CLIENT NUMBE** 00000 DECEMBER 10, 2019 DATE:





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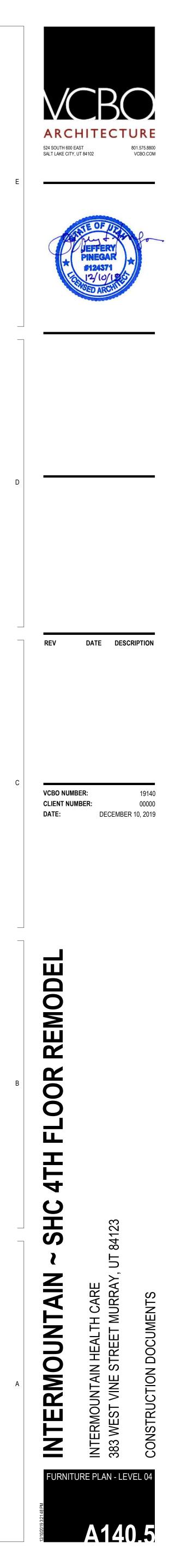
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FOR REFERENCE ONLY

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<u>SPACE SUMMARY:</u> 126 CUBICLE SPACES 15 HOTELING STATIONS **3 LARGE COLLABORATION ROOMS** 2 MEDIUM COLLABORATION ROOMS 8 SMALL COLLABORATION ROOMS 7 PHONE ROOMS



	1	2				3	
					LEGEND - FINISH		
		MARK	DESCRIPTION	MANUFACTURER	NAME	COLOR	COMMENTS
		FLOOR F1	CARPET TILE	SHAW CONTACT	HAND DRAWN, STIPPLE TILE 5T116	SLATE 13585	18" X 36" PLANK, ASHLAR INSTALLATION
		F2 F3	CARPET TILE - ACCENT PORCELAIN TILE	SHAW CONTACT DALTILE	NOBLE MATERIALS, FORM TILE 5TI36 STONE ATTACHE, CONSULATE,	CORNERSTONE COPPER 33555 PREMIER GREY CS05, UNPOLISHED	24" X 24" SQUARE, STRAIGHT SET 24" X 48" , ASHLAR TILE
		F4	LUXURY VINYL TILE	MANNINGTON COMMERCIAL	ANTIQUE NATURE'S PATHS	WINDSOR OAK, ASHEN 12372-6"	INSTALLATION 6" X 36" PLANK, ASHLAR INSTALLATION
E		F5	STATIC DISSIPATIVE	FLEXCO	DELANE	GRAY/DARK GRAY 42	24" X 24", MONOLITHIC INSTALLATION
		BASE B1	RUBBER BASE	ROPPE	PINNACLE RUBBER BASE	DOLPHIN 129	4" STANDARD COVE TOE
		B2 B3	NOT USED ALUMINUM COVE BASE FOR TILE	SCHLUTER SYSTEMS		SATIN ANODIZED ALUMINUM	3/8" RADIUS
		PAINT P1	GENERAL PAINT	SHERWIN WILLIAMS		SW 7009, PEARLY WHITE	SEMI GLOSS FINISH
		P2 P3	ACCENT PAINT - GRAY ACCENT PAINT - BLUE	SHERWIN WILLIAMS SHERWIN WILLIAMS SHERWIN WILLIAMS		SW 7003, FLARET WITTE SW 7018, DOVETAIL SW 2740, MINERAL GRAY	SEMI GLOSS FINISH SEMI GLOSS FINISH
		P4 SURFACE	ACCENT PAINT - YELLOW	SHERWIN WILLIAMS		SW 6684, BRITTLEBUSH	SEMI GLOSS FINISH
		SORFACE S1 S2	QUARTZ COUNTERTOP PLASTIC LAMINATE FOR MILLWORK	CAMBRIA K WILSONART	MARBLE COLLECTION HIGH PRESSURE LAMINATE	TORQUAY WALNUT HEIGHTS, 7965K-12	MATTE FINISH SOFT GRAIN FINISH
		S3	ACOUSTIC PANELS	AUTEX	CUBE 1/2"	OPERA	PHONE ROOM ACOUSTIC TREATMENT, SEE DETAIL A4/A571
		WALL W1	WALL COVERING	MAHARAM	NOOK 399913	ROCK 004	
		W2	WALL TILE - DRINKING FOUNTAINS	DALTILE	VOLUME 1.0 GLAZED PORCELAIN	DEGREES SILVER VL71	12" x 12", MONOLITHIC INSTALLATION, GROUT: MAPEI PEWTER 02
		W3	TILE BACKSPLASH; ELEVATOR LOBBY	DALTILE	LIMESTONE MOSAIC, POLISHED MODERN	CHENILLE WHITE L191	IRREGULAR MOSAIC, GROUT: MAPEI, PEWTER 02
		W4	WALL TILE - RESTROOMS	DALTILE	POLARIS, PL02	GLOSS WHITE	9" X 12", MONOLITHIC INSTALLATION, GROUT: MAPEI, WHITE 00
		W5	ACCENT TILE - RESTROOMS	DALTILE	STONE RADIANCE	GLACIER GRY MAR SA59; SATIN FINISH	
		WOOD WD1	PLAIN SLICED WALNUT	GRAHAM WOOD DOORS	PLAIN SLICED BLACK WALNUT	FALLOW #125	CLEAR FINISH
D		OTHER PT1	RESTROOM PARTITIONS	SCRANTON PRODUCTS	SANDCASTLE		
C							
В							
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			ROO	M FINISH - SCHED	ULE		
						l Finishes	
Room Name	Room Number	Floor Finish	Base Finish	Wall Finish Top	Wall Finish Right	I Finishes Wall Finish Bottom	Wall Finish Lef
				· · · · · · · · · · · · · · · · · · ·			
ELEVATOR LOBBY	401	F3	W3, B1	P1	W3	P1	W3
ENTRY LOBBY	402	F1, F2	B1	P1	P1, P3	P1, P3	P1, P3
OPEN WORK SPACE	403	F1	B1	P1	P1,P3,W1	P1,P3,W1	P1,P3,W1
OPEN WORK SPACE	404	F1	B1	P1	P1, P3, W1	P1, P3, W1	P1, P3, W1
OPEN WORK SPACE	405	F1	B1	P1, W1	P1, P3, W1	P1, W1	P1, P3, W1
OPEN WORK SPACE	406	F1	B1	P1, W1	P1, W1	P1, W1	P1, W1
HALL	407	F1	B1	P1	P1	P1	P1, W2
NORTH ELEVATOR LOBBY	409	F1	B1	P1, W1	P1	P1	P1, W1
STAIR 1	411						
MECHANICAL	412						
JANITOR	413						
ELECTRICAL	414						
WOMENS RESTROOM	415	F3	B3	W4, W5	W4, W5	W4, W5	W4, W5, P1
MENS RESTROOM	416	F3	B3	W4, W5	W4, W5	W4, W5	W4, W5, P1
TELECOM	417						
STAIR 2	418						
LARGE COLLAB.	421	F2	B1	P1	P1	P1	P3
MEDIUM COLLAB.	422	F2	B1	P1	P1	P1	P4
MEDIUM COLLAB.	423	F2	B1	P1	P4	P1	P1
SMALL COLLAB.	424	F1	B1	P1	P1	P4	P1
SMALL COLLAB.	425	F1	B1	P1	P1	P1	P4
SMALL COLLAB.	426	F1	B1	P1	P1	P1	P4
COPY/WORK	427	F1	B1	P1	P1	P1	P2
SMALL COLLAB	428	F1	B1	P1	P1	P1	P4
SMALL COLLAB.	429	F1	B1	P4	P1	P1	P1
MEDIUM COLLAB.	430	F2	B1	P4	P1	P1	P1
WELLNESS ROOM	431	F1	B1	P1	P3	P1	P1
SMALL COLLAB.	432	F1	B1	P1	P4	P1	P1
I.T. ROOM	433	F5	B1	P1	P1	P1	P1
STORAGE	434	F1	B1	P1	P1	P1	P1
COPY/WORK AREA	435	F1	B1	P1	P1	P1	P2
SMALL COLLAB.	436	F1	B1	P1	P4	P1	P1
LARGE COLLAB.	437	F2	B1	P1	P1	P1	P3
INDUSTRIAL HYGIENE	438	F4	B1	P1	P1	P2	P1
LARGE COLLAB.	439	F2	B1	P1	P1	P4	P1
STORAGE	440	F1	B1	P1	P1	P1	P1
BREAK ROOM	451	F4	B1	P1	P1	P1	P2
PHONE	452	F1	B1	P1	P2	P1	P1
PHONE	453	F1	B1	P1	P1	P1	P2
PHONE	453	F1	P1	P1	P1	P1	P2
PHONE	454	F1	B1	P1	P1 P2	P1	P1
PHONE	455	F1	B1	P1	P2 P2	P1	P1
PHONE	450	F1	B1	P1	P2 P1	P1	P1 P2
PHONE	457	F1	B1	P1	P1	P1	P2 P2

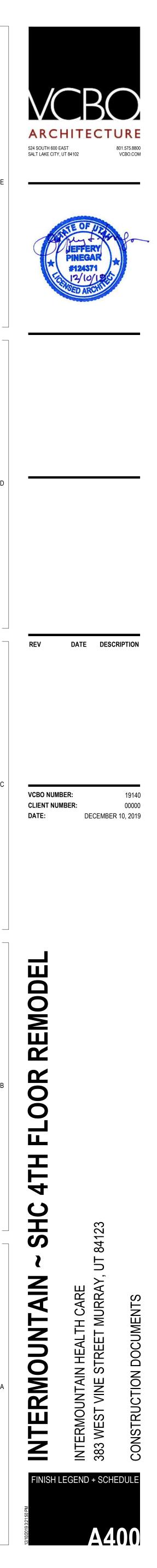
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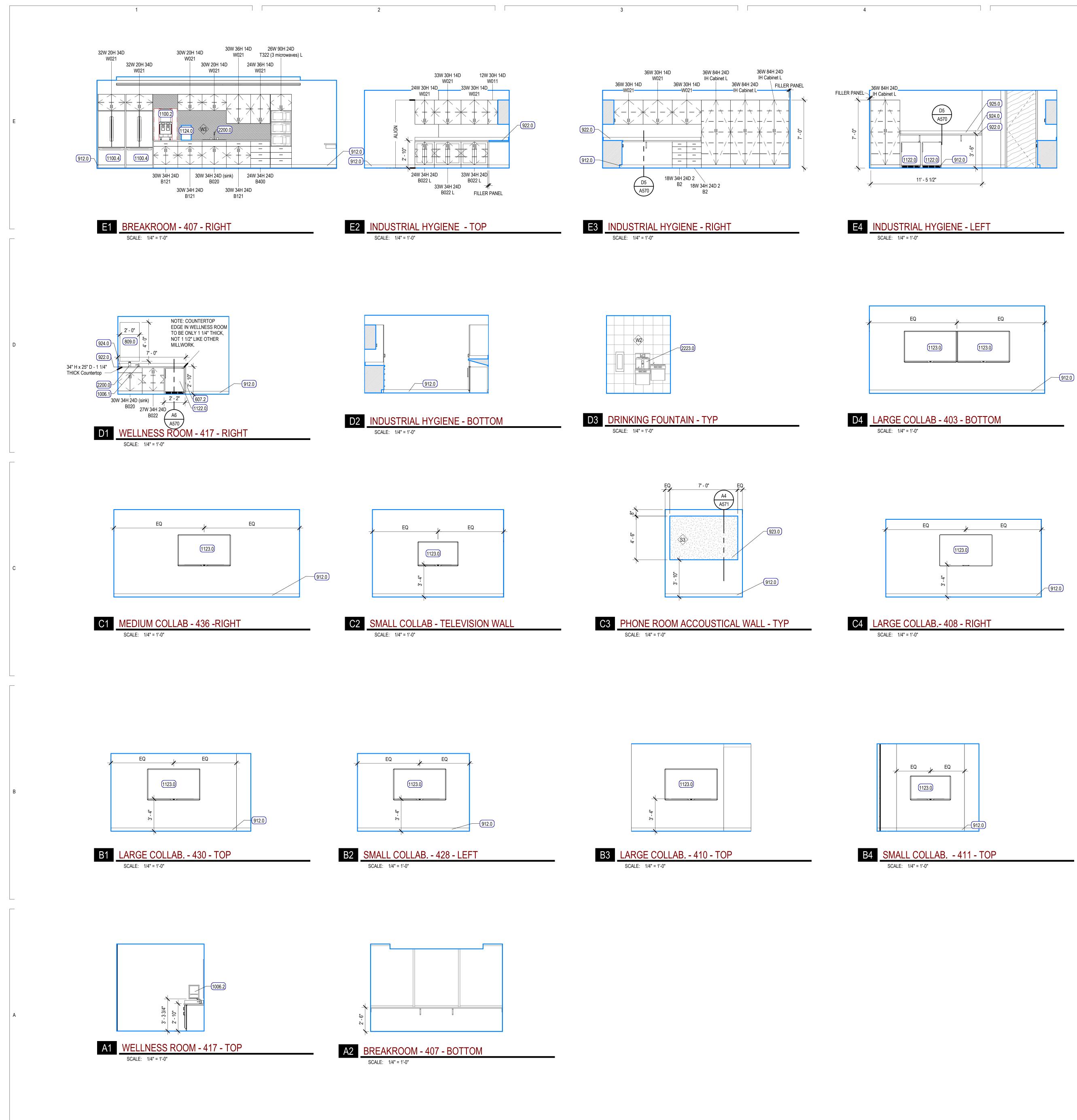
GENERAL FINISH NOTES

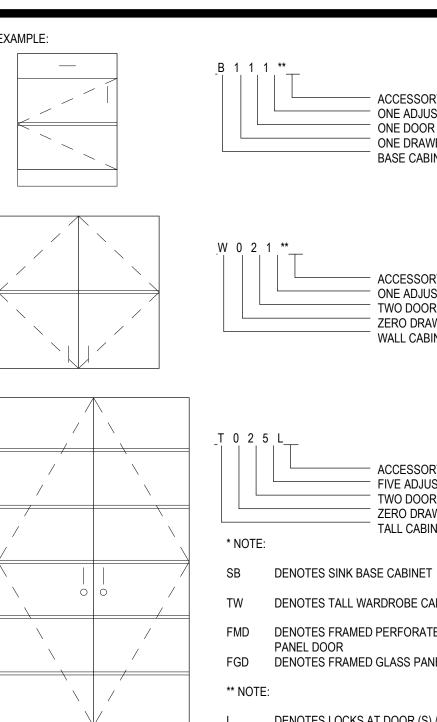
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PROVIDE EPOXY PAINT AT ALL RESTROOMS, SHOWERS, LOCKER ROOMS AND JANITOR CLOSETS.

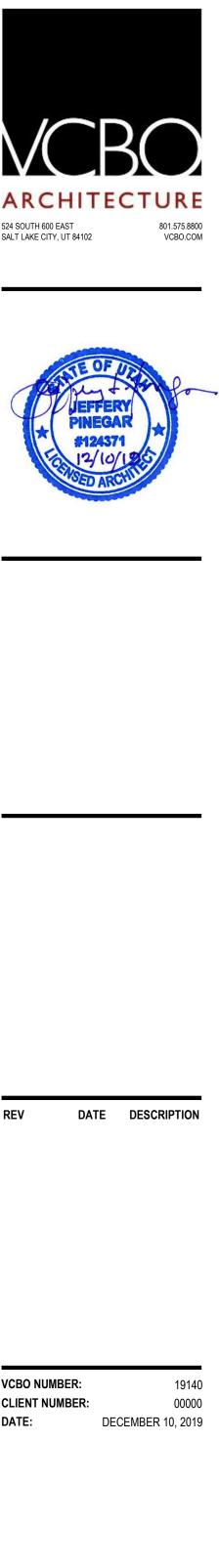
- 2. ALL FLOOR TRANSITIONS TO BE LOCATED AT CENTER OF DOOR, U.N.O. ALL FLOOR TRANSITIONS AT FLOOR TILE (F3) LOCATIONS TO BE LOCATED AT INSIDE CORNER OF DOOR.
- 3. ALL GROUT JOINTS TO BE NO LARGER THAN 1/8".
- 4. FIELD VERIFY ALL DIMENSIONS BEFORE FABRICATION OF MILLWORK. 5. COORDINATE ALL MILLWORK WITH APPLIANCES BEFORE FABRICATION.
- 6. SEE ELEVATION SHEETS FOR ALL WALL TILE PATTERNS.
- 7. AT SOFFITS RECEIVING COLOR- PAINT ALL SIDES OF SOFFIT.
- 8. ALL WOOD TRIM TO BE STAINED TO MATCH DOOR STAIN.
- 9. ALL COUNTERTOP, BACKSPLASHES, AND EDGE BANDING TO HAVE COORDINATING FINISHES.
- 10. PROVIDE A SMOOTH TRANSITION AT ALL FLOOR MATERIALS CONTRACTOR TO INSTALL ALL FLOOR FINISHES AT SAME LEVEL, DESPITE DIFFERENT THICKNESS. PROVIDE FLOOR TRANSITION WHERE OCCURS. 11. ALL WALLS RECEIVING TILE WAINSCOT TO RECEIVE PAINT P1 ABOVE, U.N.O. SEE
- FINISH PLANS FOR ACCENT WALL LOCATIONS.
- 12. SEE SHEET A571 FOR FLOORING TRANSITION DETAILS.
- 13. SEE DOOR AND WINDOW SHEET A600 FOR H.M. DOOR AND FRAME PAINT COLORS. 14. AT ALL TILE WALLS USE SCHLUTER JOLLEY AT ALL OUTSIDE WALL EDGES AND OUTSIDE CORNERS. SCRIBE BOTTOM TILE TO MATCH FINISH FLOOR SURFACE AND CAULK WITH BASE 'NB'.

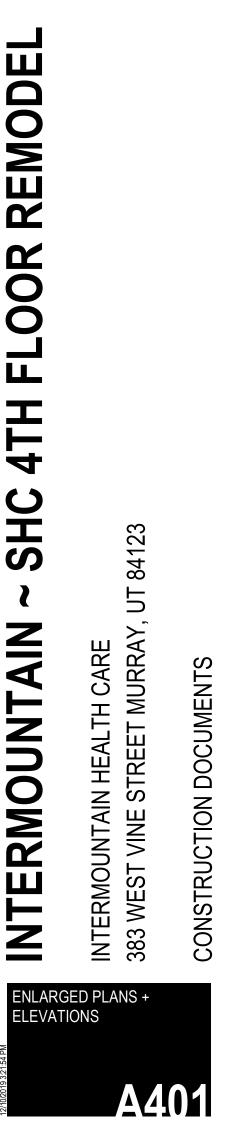


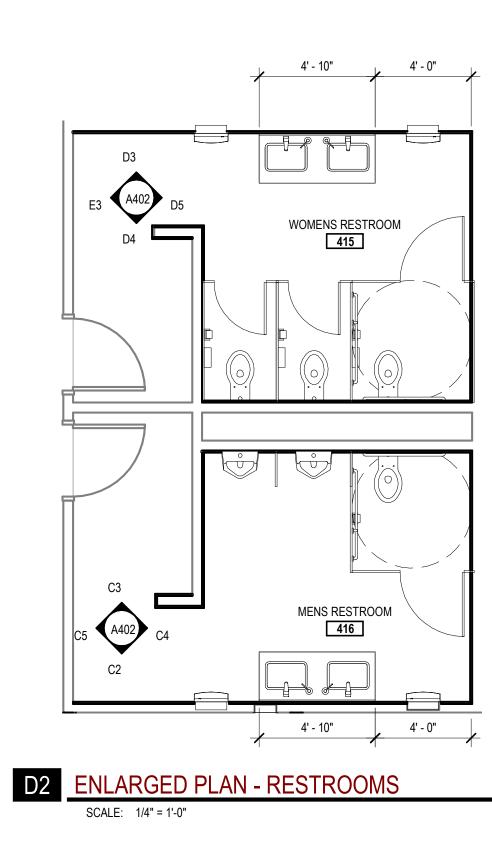




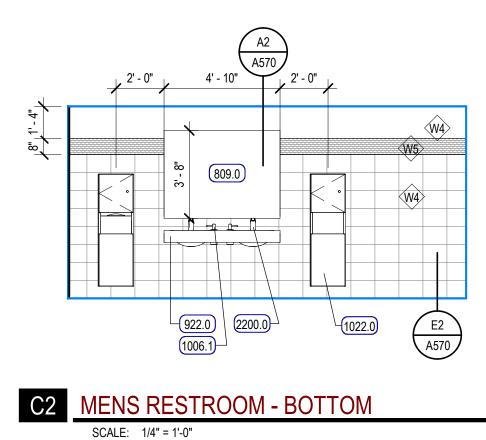
		<u>B</u> 1 1 1 **		
/			ACCESSORY (IF NOTED) ONE ADJUSTABLE SHELF ONE DOOR	
	<u>`</u>		ONE DRAWER BASE CABINET *	
				E
		<u>W 0 2 1 **</u>		_
			ACCESSORY (IF NOTED) ONE ADJUSTABLE SHELF TWO DOORS	
			ZERO DRAWERS WALL CABINET *	
		T 0 2 5 L		
/			- ACCESSORY (IF NOTED) - FIVE ADJUSTABLE SHELVES	
			TWO DOORS ZERO DRAWERS	
/		* NOTE:	TALL CABINET *	
\backslash		SB DENOTES SINK BA	SE CABINET	
		PANEL DOOR	PERFORATED METAL	
		FGD DENOTES FRAME) GLASS PANEL DOOR	
	· / /		AT DOOR (S) / DRAWER (S)	
		F DENOTES FILE DR		D
UNTERTO		CTUAL SIZES. BASE CABINET H THS ARE MEASURED FROM TH .PPLICABLE)		
CABINE		CEALED BEHIND DOORS OR OF	PEN, ARE STANDARD	
ILLW	ORK LEGEND			
ALL MIL CABINE	LWORK DIMENSIONED FROM	BASE TO TOP OF IDENTIFIED (ROM THE WALL TO THE FACE (
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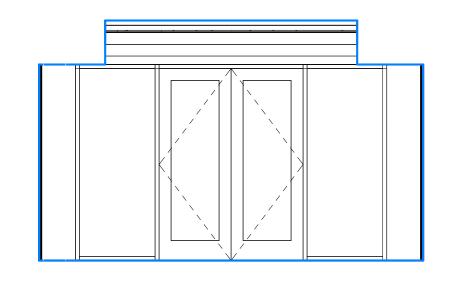


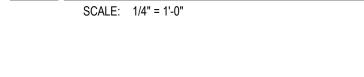




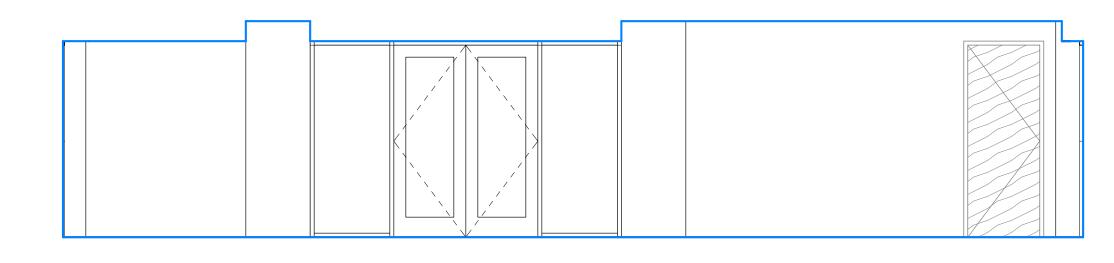
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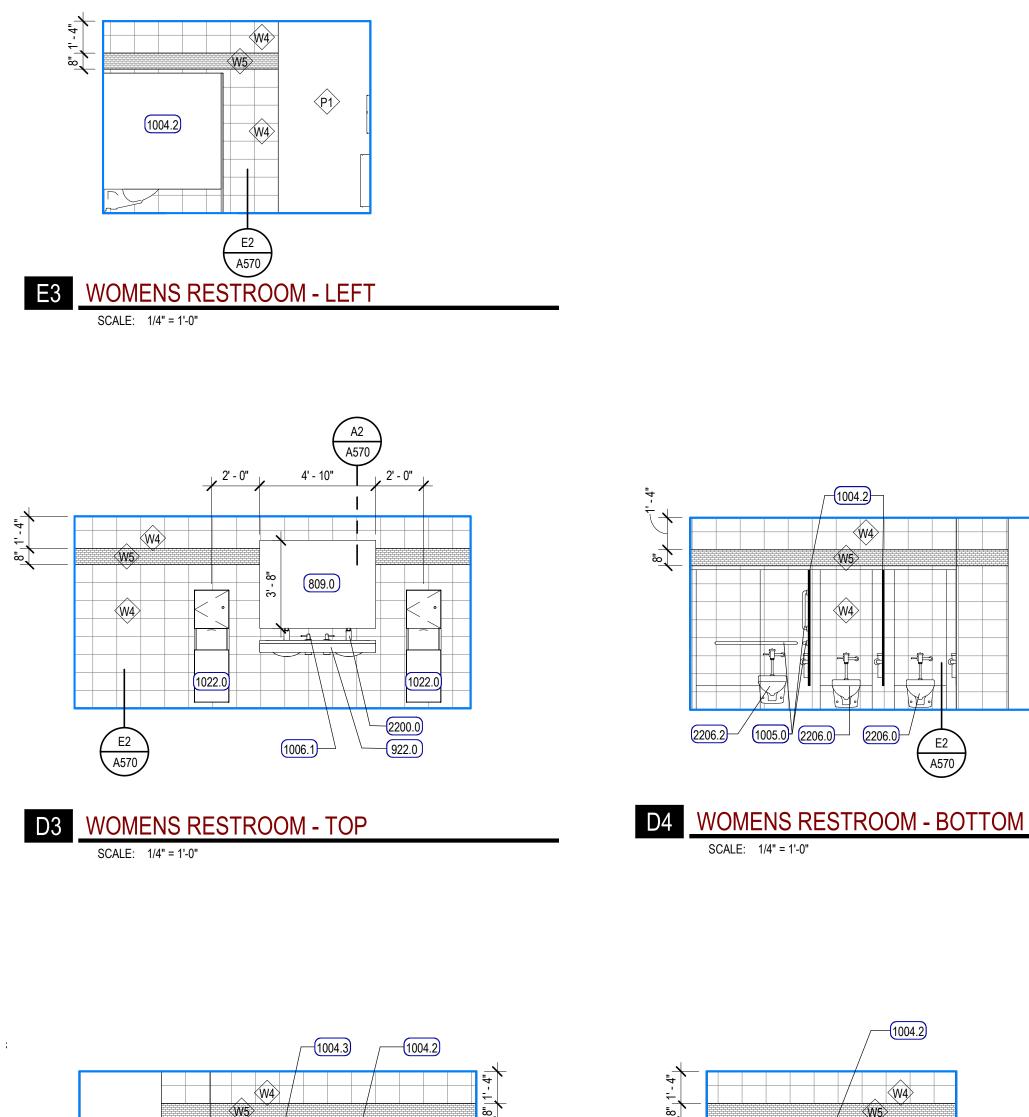




B2 ELEVATOR LOBBY - TOP

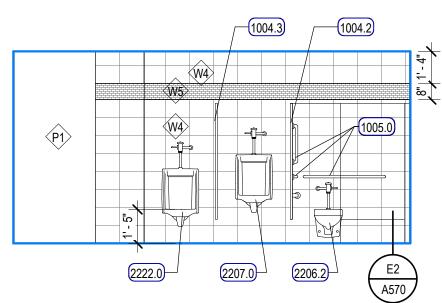


A2 ENTRY LOBBY - 402 - BOTTOM SCALE: 1/4" = 1'-0"

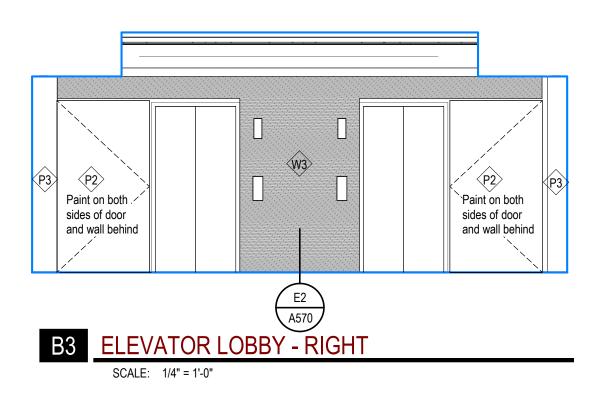


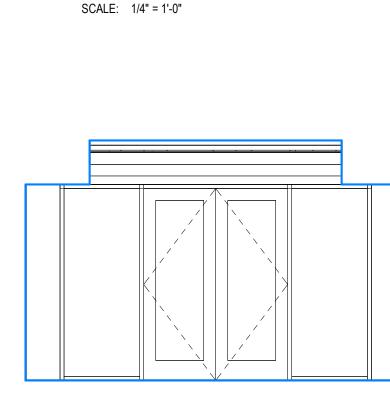
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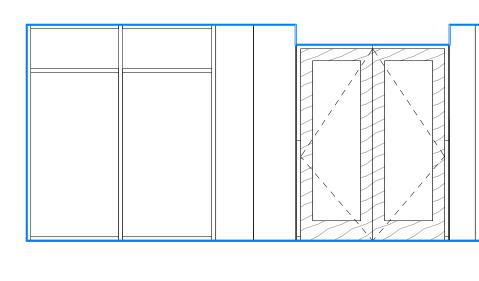


C4 MENS RESTROOM - RIGHT

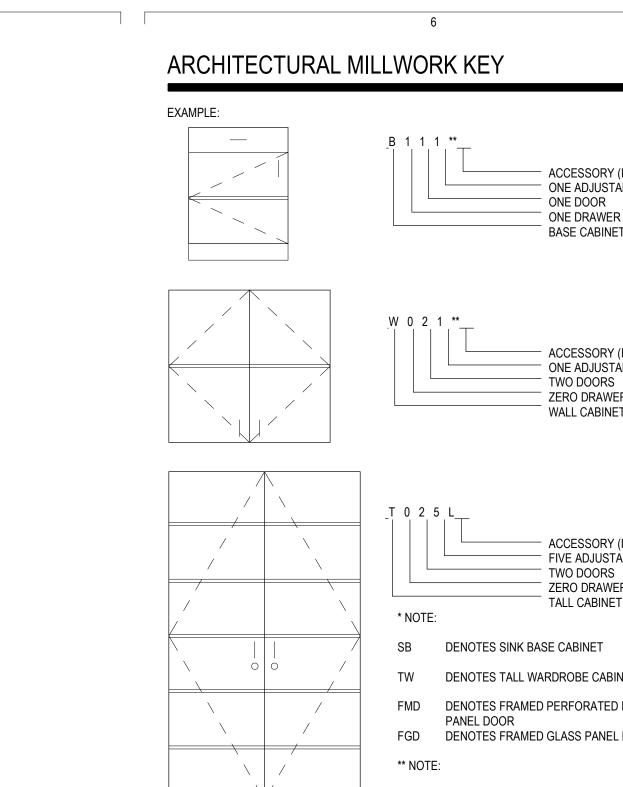
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A570





A4 ENTRY LOBBY - 402 - RIGHT SCALE: 1/4" = 1'-0"



DENOTES LOCKS AT DOOR (S) / DF F DENOTES FILE DRAWER (S)

CABINET MEASUREMENTS SHOWN ARE ACTUAL SIZES. BASE CABINET HEIGHTS ALLOW I COUNTERTOP 1 1/2" THICK. CABINET DEPTHS ARE MEASURED FROM THE BACK TO THE F THE DOOR OR DRAWER FRONT (WHERE APPLICABLE) ALL CABINET INTERIORS, WHETHER CONCEALED BEHIND DOORS OR OPEN, ARE STANDA MELAMINE LAMINATE AS PER SPECIFICATIONS.

MILLWORK LEGEND

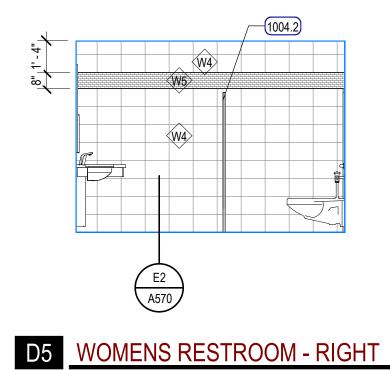
- MILLWORK DIMENSION NUMBERS ARE WIDTH X HEIGHT X DEPTH.
- 2. ALL MILLWORK DIMENSIONED FROM BASE TO TOP OF IDENTIFIED COUNTERTOP, 3. CABINET DEPTHS ARE MEASURED FROM THE WALL TO THE FACE OF THE DOOR O
- DRAWER FRONT (WHERE APPLICABLE).
- 4. PROVIDE BASE AT ALL CABINET TOE SPACE, UNLESS NOTED OTHERWISE. ALL COUNTERTOPS TO HAVE A 4" BACKSPLASH, UNLESS NOTED OTHERWISE, TO MA COUNTERTOP, ON BACK AND SIDE WALLS.
- 6. PROVIDE FILLER PANELS TO SEAL SIDES AND TOPS OF ALL CABINETS PLACED AT A
- ANGLE TO ADJACENT WALL(S).
- 7. ALL MILLWORK TO FINISHED ON ENDS, TYP. 8. CONTRACTOR TO PROVIDE BLOCKING BEHIND ALL CABINETS, COAT RACKS, PENCI SHARPENER BLOCKS, T.V. BRACKETS AND PROJECTION SCREENS AS WELL AS ALL MOUNTED ACCESSORIES, INCLUDING WHITE BOARDS, TACKBOARDS, TOILET AND U PARTITIONS AND TOILET ROOM ACCESSORIES, ETC NOTE: ONLY 2X WOOD BLOC ACCEPTABLE BEHIND MILLWORK AND TOILET ROOM PARTITIONS.
- 9. REFER TO SHEET A400 FOR FINISH COLORS ON ALL MILLWORK AND CASEWORK.

TYPICAL MILLWORK DETAILS

- 1. TYPICAL MILLWORK ANCHORING DETAILS, PER DETAIL E5/A570
- 2. TYPICAL COUNTERTOP EDGE, PER DETAIL E3/A570
- 3. TYPICAL RESTROOM COUNTERTOP, PER DETAIL B4/A570
- 4. TYPICAL BASE CABINET WITH DOOR(S), PER DETAIL A5/A570
- 5. TYPICAL BASE CABINET WITH DRAWER(S), PER DETAIL A3/A570
- 6. TYPICAL BASE CABINET WITH DOOR(S) AND DRAWER, PER DTL A4/A570 7. TYPICAL CABINET CORNER DETAIL, PER DETAIL E4/A570
- 8. TYPICAL UPPER CABINET WITH DOORS, PER DETAIL C2/A570
- 9. TYPICAL SINK BASE CABINET, PER DETAIL B3/A570
- 10. TYPICAL TALL CABINET WITH DOOR(S), PER DETAIL A1/A570
- 11. TYPICAL TALL MICROWAVE CABINET, PER DETAIL B5/A570
- 12. TYPICAL WALL MOUNT COUNTERTOP, PER DETAIL D5/A570
- 13. TYPICAL COUNTERTOP WITH UNDER COUNTER REFRIGERATOR, PER DETAIL A6/A5
- 14. TYPICAL FULL HEIGHT ADJUSTABLE SHELF, PER DETAIL D1/A570

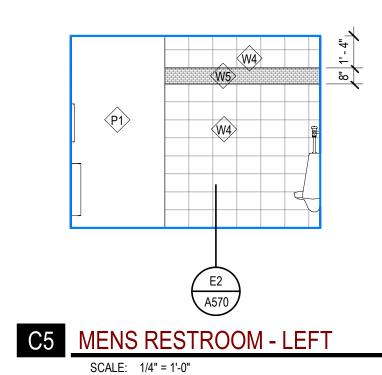
KEYED NOTES

809.0	WALL MIRROR, FRAMELESS	
922.0	QUARTZ COUNTERTOP	
1004.2	TOILET PARTITION	
1004.3	URINAL SCREEN PARTITION	
1005.0	GRAB BAR	
1006.1	DISPENSER, SOAP, NIC	
1022.0	RECESSED COMBO PAPER TOWEL DISPENSER AND WASTE	
2200.0	SINK + FAUCET	
2206.0	TOILET, WALL MOUNT	
2206.2	TOILET, ADA COMFORT HEIGHT	
2207.0	URINAL	
2222.0	URINAL, ADA	

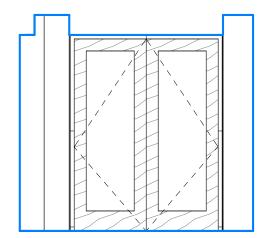


SCALE: 1/4" = 1'-0"

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	B	INTERMOUNTAIN ~ SHC 4TH FLOOR REMODEL	
PENCIL S ALL WALL AND URINAL BLOCKING IS RK.	C	VCBO NUMI CLIENT NUI DATE:	
OP, TYP OR OR , TO MATCH D AT AN		REV	DATE
RAWERS BINET * CABINET ATED METAL ANEL DOOR S) / DRAWER (S) LLOW FOR A D THE FACE OF	D		
ORY (IF NOTED) IUSTABLE SHELF ORS RAWERS BINET * ORY (IF NOTED) IUSTABLE SHELVES ORS	E	SALTLAKE CITY,	UT 84102
ORY (IF NOTED) IUSTABLE SHELF DR AWER BINET *		ARC 524 SOUTH 600 E SALT LAKE CITY,	AST



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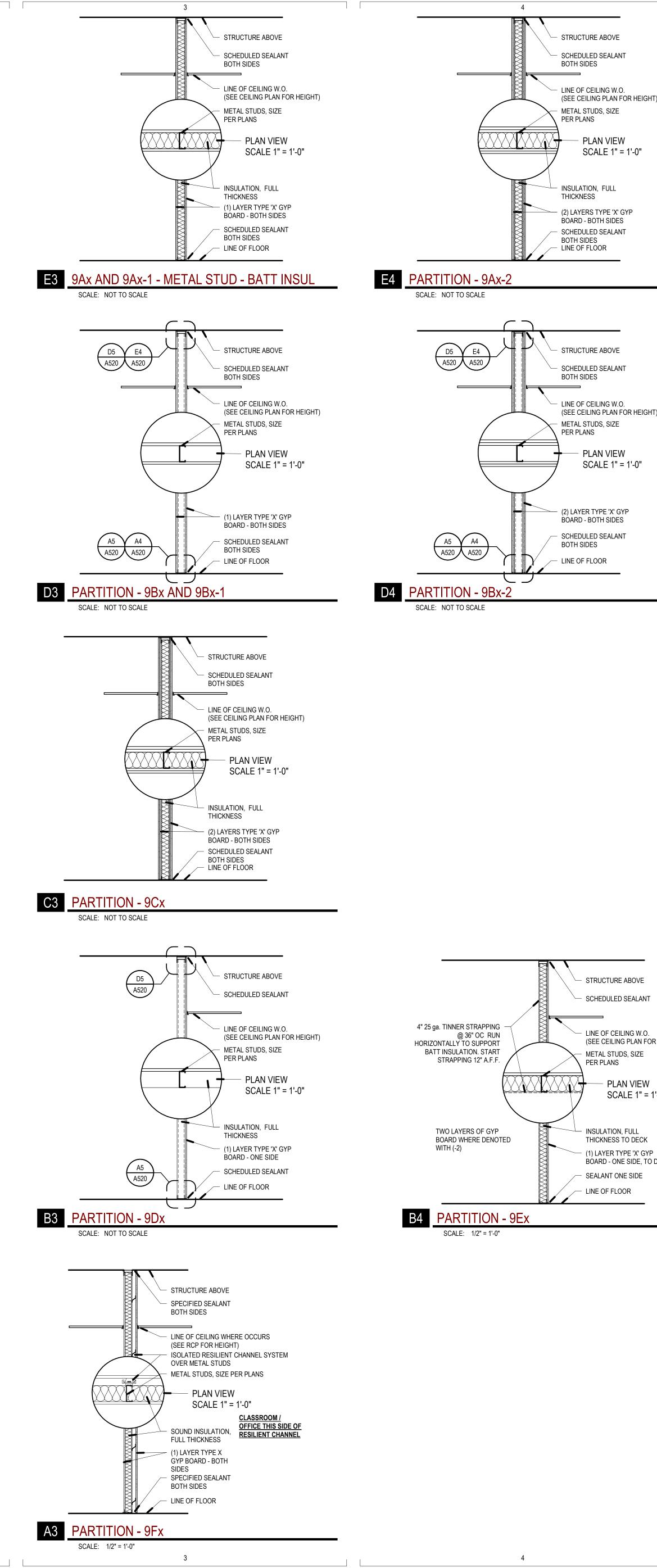
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KEY FOR PARTITI		
4X 5X	0 SERIES METAL S NOMINA //8" METAL DN BOTH DW FOR DIVIDUAL WALL	RY DRMED METAL STUDS, 16 GA MIN.
RATED WALL LEG	BEND	
 INCIDENTAL U 1 HOUR SEPA 2 HOUR SEPA 3 HOUR SEPA 90X-R SERIES 	RATION RATION	EXAMPLE: WALL TYPE 9A3-1 IS A ONE HOU RATED, 3 5/8" METAL STUD WALL WITH 5/8 GYPSUM BOARD ON BOTH SIDES, PER ASSEMBLY REQUIREMENTS.
	VHEN NOTED): 1 = 2 = 2 HOUR RATE	1 HOUR RATED ASSEMBLY D ASSEMBLY
	3 = 3 HOUR RATE	
NON-BEARING ME		DASSEMBLY
NON-BEARING ME MAXIMUM SPAN		DASSEMBLY
		D ASSEMBLY
MAXIMUM SPAN		D ASSEMBLY DER SCHEDULE FY
MAXIMUM SPAN 4'-0"	HEADER (2) 400S137-43	D ASSEMBLY DER SCHEDULE FY 33 ksi
MAXIMUM SPAN 4'-0" 6'-0"	ETAL HEAI HEADER (2) 400S137-43 (2) 600S162-43	D ASSEMBLY DER SCHEDULE FY 33 ksi 33 ksi
MAXIMUM SPAN 4'-0" 6'-0" 8'-0"	ETAL HEAI HEADER (2) 400S137-43 (2) 600S162-43 (2) 800S162-43	D ASSEMBLY DER SCHEDULE FY 33 ksi 33 ksi 33 ksi
MAXIMUM SPAN 4'-0" 6'-0" 8'-0" METAL STUD HEADER NOTES: 1. SCHEDULE TO BE USED FO	ETAL HEAI HEADER (2) 400S137-43 (2) 600S162-43 (2) 800S162-43 R NON-BEARING W	D ASSEMBLY DER SCHEDULE FY 33 ksi 33 ksi 33 ksi 33 ksi
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MAXIMUM SPAN 4'-0" 6'-0" 8'-0" METAL STUD HEADER NOTES: 1. SCHEDULE TO BE USED FO 2. HEADERS TO BE CONSTRU 3. SEE TYPICAL DETAIL FOR M NON-BEARING ME MEMBER DEPTH IN 1/100 INCHES	HEADER (2) 400S137-43 (2) 600S162-43 (2) 800S162-43 (2) 800S162-43 R NON-BEARING WA CTED AS BOX HEAE	D ASSEMBLY DER SCHEDULE FY 33 ksi 33 ksi 33 ksi 33 ksi ALLS. DERS PER SSMA STANDARDS. N. D GAUGE SIZING FLANGE WIDTH IN 1/100 INCHES
MAXIMUM SPAN 4'-0" 6'-0" 8'-0" METAL STUD HEADER NOTES: 1. SCHEDULE TO BE USED FO 2. HEADERS TO BE CONSTRU 3. SEE TYPICAL DETAIL FOR M NON-BEARING ME MEMBER DEPTH IN 1/100	HEADER (2) 400S137-43 (2) 600S162-43 (2) 800S162-43 (2) 800S162-43 R NON-BEARING WA CTED AS BOX HEAD MORE INFORMATION	D ASSEMBLY DER SCHEDULE FY 33 ksi 33 ksi 33 ksi 33 ksi ALLS. DERS PER SSMA STANDARDS. N. DGAUGE SIZING FLANGE WIDTH IN 1/100
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MAXIMUM SPAN 4'-0" 6'-0" 8'-0" METAL STUD HEADER NOTES: 1. SCHEDULE TO BE USED FO 2. HEADERS TO BE CONSTRU 3. SEE TYPICAL DETAIL FOR M NON-BEARING ME MEMBER DEPTH IN 1/100 INCHES STYLE (S=STUD OR JOIST)	HEADER (2) 400S137-43 (2) 600S162-43 (2) 800S162-43 (2) 800S162-43 (2) 800S162-43 R NON-BEARING WARD CTED AS BOX HEAD MORE INFORMATION ETAL STUE 400S137-43	D ASSEMBLY DER SCHEDULE FY 33 ksi 33 ksi 33 ksi 33 ksi ALLS. DERS PER SSMA STANDARDS. N. D GAUGE SIZING FLANGE WIDTH IN 1/100 INCHES MATERIAL THICKNESS IN MILS
MAXIMUM SPAN 4'-0" 6'-0" 8'-0" METAL STUD HEADER NOTES: 1. SCHEDULE TO BE USED FO 2. HEADERS TO BE CONSTRU 3. SEE TYPICAL DETAIL FOR M MEMBER DEPTH IN 1/100 INCHES STYLE (S=STUD OR JOIST) MEMBER DEPTH	HEADER (2) 400S137-43 (2) 600S162-43 (2) 800S162-43 (2) 800S162-43 (2) 800S162-43 R NON-BEARING WA CTED AS BOX HEAD MORE INFORMATION ETAL STUD 400S137-43 MAX STUD HEIO	D ASSEMBLY DER SCHEDULE FY 33 ksi 33 ksi 33 ksi 33 ksi ALLS. DERS PER SSMA STANDARDS. N. D GAUGE SIZING FLANGE WIDTH IN 1/100 INCHES MATERIAL THICKNESS IN MILS GHT MIN. GA. & SPACING
MAXIMUM SPAN 4'-0" 6'-0" 8'-0" METAL STUD HEADER NOTES: 1. SCHEDULE TO BE USED FO 2. HEADERS TO BE CONSTRU 3. SEE TYPICAL DETAIL FOR MEMBER DEPTH IN 1/100 MEMBER DEPTH IN 1/100 INCHES STYLE (S=STUD OR JOIST) MEMBER DEPTH 2 1/2" (250S125-33)	HEADER (2) 400S137-43 (2) 600S162-43 (2) 800S162-43 (2) 800S162-43 R NON-BEARING WA CTED AS BOX HEAD MORE INFORMATION ETAL STUD 400S137-43 MAX STUD HEIR 10'-0"	D ASSEMBLY DER SCHEDULE FY 33 ksi 33 ksi 33 ksi 33 ksi 33 ksi ALLS. DERS PER SSMA STANDARDS. N. D GAUGE SIZING FLANGE WIDTH IN 1/100 INCHES HATERIAL THICKNESS IN MILS GHT MIN. GA. & SPACING 20@16" O.C.
MAXIMUM SPAN 4'-0" 6'-0" 8'-0" METAL STUD HEADER NOTES: 1. SCHEDULE TO BE USED FO 2. HEADERS TO BE CONSTRU 3. SEE TYPICAL DETAIL FOR MEMBER DEPTH IN 1/100 MEMBER DEPTH IN 1/100 NCHES STYLE (S=STUD OR JOIST) MEMBER DEPTH 2 1/2" (250S125-33) 3 5/8" (362S125-33)	ETAL HEAI HEADER (2) 400S137-43 (2) 600S162-43 (2) 800S162-43 (2) 800S162-43 R NON-BEARING WA CTED AS BOX HEAE MORE INFORMATION ETAL STUD 400S137-43 MAX STUD HEIC 10'-0" 14'-0"	D ASSEMBLY DER SCHEDULE FY 33 ksi 33 ksi 33 ksi 33 ksi SERS PER SSMA STANDARDS. N. D GAUGE SIZING FLANGE WIDTH IN 1/100 INCHES FLANGE WIDTH IN 1/100 INCHES GHT MIN. GA. & SPACING 20@16" O.C. 20@16" O.C.
MAXIMUM SPAN 4'-0" 6'-0" 8'-0" METAL STUD HEADER NOTES: 1. SCHEDULE TO BE USED FO 2. HEADERS TO BE CONSTRU 3. SEE TYPICAL DETAIL FOR M MEMBER DEPTH IN 1/100 MEMBER DEPTH IN 1/100 INCHES STYLE (S=STUD OR JOIST) MEMBER DEPTH 2 1/2" (250S125-33) 3 5/8" (362S162-33) 3 5/8" (362S162-33)	HEADER (2) 400S137-43 (2) 600S162-43 (2) 800S162-43 (2) 800S162-43 (2) 800S162-43 R NON-BEARING WA CTED AS BOX HEAD MORE INFORMATION ETAL STUD 400S137-43 MAX STUD HEIG 10'-0" 14'-0" 16'-0"	D ASSEMBLY DER SCHEDULE FY 33 ksi 33 ksi 33 ksi 33 ksi 33 ksi ALLS. DERS PER SSMA STANDARDS. N. D GAUGE SIZING FLANGE WIDTH IN 1/100 INCHES FLANGE WIDTH IN 1/100 INCHES GHT MIN. GA. & SPACING 20@16" O.C. 20@16" O.C. 20@16" O.C. 20@16" O.C.
MAXIMUM SPAN 4'-0" 6'-0" 8'-0" METAL STUD HEADER NOTES: 1. SCHEDULE TO BE USED FO 2. HEADERS TO BE CONSTRU 3. SEE TYPICAL DETAIL FOR M MEMBER DEPTH IN 1/100 MEMBER DEPTH IN 1/100 NCHES STYLE (S=STUD OR JOIST) MEMBER DEPTH 2 1/2" (250S125-33) 3 5/8" (362S162-33) 3 5/8" (362S162-43)	ETAL HEAI HEADER (2) 400S137-43 (2) 600S162-43 (2) 800S162-43 (2) 800S162-43 R NON-BEARING WA CTED AS BOX HEAE MORE INFORMATION ETAL STUD 400S137-43 MAX STUD HEIC 10'-0" 14'-0" 16'-0" 18'-0"	D ASSEMBLY DER SCHEDULE FY 33 ksi 33 ksi 33 ksi 33 ksi 33 ksi ALLS. DERS PER SSMA STANDARDS. N. D GAUGE SIZING FLANGE WIDTH IN 1/100 INCHES FLANGE WIDTH IN 1/100 INCHES GHT MIN. GA. & SPACING 20@16" O.C. 20@16" O.C. 20@16" O.C. 18@16" O.C.

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1. STEEL STUDS SHALL MEET ICC REPORT ER-4943P AND THE SSMA STANDARDS. HEIGHT BASED ON SSMA 2001 CATALOG AND PROJECT REQUIREMENTS.

2. SEE SCHEDULE FOR STUD SPACING AND GAUGE. ALL STUDS AND BRACES SHALL BE 33 KSI UNLESS NOTED OTHERWISE IN THESE DRAWINGS.

3. AT ALL DOORS PROVIDE TWO TABBED 18 GAUGE STUDS AT BOTH SIDES OF JAMB.

KEY FOR PARTITION TYPES

DENOTES TYPE OF CONSTRUCTION (SPEC. DIVISION) 3X 0 SERIE 4X 0 SERIE 6X 0 SERIE	S MASONRY S WOOD STUDS	
9X 0 SERIE 9X 0 SERIE N EXAMPLE: WALL TYPE 6A4 IS A 2x4 WOOD STUD WITH 5/8" GYPSUM BOARD ON BOTH SIDES. NOTE: SEE GENERAL NOTES BELOW FOR ADDITIONAL ELEMENTS IN THE INDIVIDUAL TYPES AND SPECIFIC DETAILS, INCLUDING RATINGS. RATED WALL LEGEND	IOMINAL SIZES: V = VA 2 = 4 = 6 = WALL UL 10 = 12 =	RIABLE/MATCHEXISTING 2x2 WOOD STUDS 2x4 WOOD STUDS / 4" C.M.U. 2x6 WOOD STUDS / 6" C.M.U. 2x8 WOOD STUDS / 8" C.M.U. 2x10 WOOD STUDS / 10" C.M.U. OR CONC.
INCIDENTAL USE AREA 1 HOUR SEPARATION 2 HOUR SEPARATION 3 HOUR SEPARATION 6X0-R SERIES	HOUF WITH SIDES	IPLE: WALL TYPE 6A4-1 IS A ONE R RATED, 2x4 WOOD STUD WALL 5/8" GYPSUM BOARD ON BOTH S, PER ASSEMBLY JIREMENTS.
		ED ASSEMBLY

2 = 2 HOUR RATED ASSEMBLY 3 = 3 HOUR RATED ASSEMBLY

(SEE CEILING PLAN FOR HEIGHT)

- PLAN VIEW SCALE 1" = 1'-0"

BOARD - ONE SIDE, TO DECK

PARTITION + FRAMING GENERAL NOTES

- FRAMED WALL PARTITIONS 1. PARTITION TYPE INDICATIONS ARE INDEPENDENT OF APPLIED FINISHES. SEE FINISH SHEETS AND INTERIOR ELEVATIONS FOR WALL FINISHES INCLUDING TILE COURSING AND LAYOUT AND/OR THE DESIGNATIONS ON THE PLANS FOR ADDITIONAL INFORMATION REGARDING APPLIED FINISHES.
- 2. WHERE PARTITION TYPE DESIGNATION ON FLOOR PLANS IS INTERRUPTED BY DOOR OPENING, GLAZED PARTITION, ETC., CONSTRUCTION ABOVE INTERRUPTION (AND WHERE APPLICABLE BELOW) IS TO BE THE SAME AS THAT DESIGNATED FOR THE PARTITION IN WHICH THE INTERRUPTION OCCURRED.
- 3. THE MINIMUM REQUIREMENTS FOR CONSTRUCTION OF EACH PARTITION TYPE AS EXPRESSED BY THE INDICATED REFERENCE ARE INCORPORATED BY REFERENCE AND ARE APPLICABLE TO THE WORK OF THIS PROJECT. HOWEVER, ADDITIONAL AND/OR MORE RESTRICTIVE REQUIREMENTS MAY F BE INDICATED BY THE SPECIFICATIONS AND DRAWINGS. SUCH REQUIREMENTS ALSO APPLY AND SHALL GOVERN. SUCH REQUIREMENTS INCLUDE BUT ARE NOT LIMITED TO:
- a. USE 5/8" THICK GYPSUM BOARD THROUGHOUT UNLESS NOTED OTHERWISE. b. USE 16" OC MAX STUD SPACING UNLESS NOTED OTHERWISE IN THESE DOCUMENTS. THE SPACING STATED BY THE REFERENCED APPROVAL OR EST REPORT IS THE MAX SPACING IF ALLOWED IN THESE DOCUMENTS.
- c. USE STUDS OF GAUGE INDICATED ON THE DRAWINGS OR IN THE SPECIFICATIONS. THE GAUGE STATED BY THE REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM GAUGE TESTED, 20 GA (30 MILS) IS THE MINIMUM ALLOWED IN THESE DOCUMENTS. 4. USE STUDS OF DEPTH INDICATED BY THIS SET OF DOCUMENTS. THE DEPTH STATED BY THE
- REFERENCED APPROVAL OR TEST REPORT IS THE MINIMUM DEPTH TESTED DEPTH ALLOWED IN THESE DOCUMENTS. SEE STRUCTURAL DOCUMENTS FOR ADDITIONAL INFORMATION PERTAINING TO THE CONSTRUCTION OF CONCRETE, MASONRY AND STUD WALLS
- 5. PROVIDE FIRE RATED CONSTRUCTION ASSEMBLIES WHERE INDICATED ON SHEETS G100's AND FLOOR PLAN DRAWINGS.
- 6. ALL DIMENSIONS ARE CENTER OF STUD OR FACE OF CONCRETE, MASONRY OR ROUGH OPENING UNLESS NOTED OTHERWISE. FACE OF FINISHED WALL WILL BE NOTED AS FOW.
- 7. AT ALL INTERIOR WALLS, STUDS, INSULATION AND GYPSUM BOARD ARE TO EXTEND TO THE DECK ABOVE. UNLESS NOTED OTHERWISE.
- 8. WALL TYPES NOT NOTED ARE ASSUMED TO MATCH ADJACENT ROOMS. SEE SHEETS FOR FINISHES, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- 9. ALL METAL STUD PARTITIONS ARE CONSIDERED ACOUSTIC PARTITIONS AND ARE TO RECEIVE A TYPE 1 SOUND ATTENUATION BLANKET. THICKNESS TO MATCH STUD DEPTH, UNLESS NOTED OTHERWISE.
- 10. REFER TO SHEET AXXX FOR TYPICAL INTERIOR WALL CONDITIONS ASSOCIATED WITH ALL METAL STUD PARTITIONS.
- 11. PROVIDE CONTROL JOINTS IN METAL FRAMED WALLS AT APPROXIMATELY 30 FEET ON CENTER. LOCATE AT CORNER ABOVE DOORS OR INSIDE CORNER OF PILASTERS OR OTHER INCONSPICUOUS LOCATION WHERE POSSIBLE. CONSULT WITH ARCHITECT PRIOR TO COMMENCING FRAMING. INSTALL PER DETAILS XX, XX AND XX/ AXXX FOR CONTROL JOINTS.
- 12. AT WALL OPENINGS FOR PENETRATION OF PIPES, DUCTS, DEVICES, ETC., GYPSUM BOARD IS TO BE CUT TO MATCH THE SHAPE AND DIMENSION OF THE PENETRATING OBJECT AND THE GAP BETWEEN THE OBJECT AND THE WALL IS TO BE SEALED W/ ACOUSTICAL OR FIRE SEALANT ON ALL SIDES WITH A 3/4" JOINT AT ALL SIDES, MAXIMUM. THE OPENING FOR DUCTS OR LARGE PENETRATIONS SHALL BE FRAMED WITH A HEADER, ADD AN ANGLED CORNER BRACE IF THE GAP EXCEEDS 3" FROM FRAMING TO THE OPENING.
- 13. PROVIDE BLOCKING / BACKING FOR ALL WALL MOUNTED EQUIPMENT. SEE FLOOR PLANS AND INTERIOR ELEVATIONS FOR CABINETS, GRAB BARS ETC. INSTALL BLOCKING AS DETAILED OR AS REQUIRED TO MOUNT SUCH DEVICES. ALL BLOCKING IS TO BE FIRE RETARDANT TREATED. INSTALL PER SHEET A570.
- 14. WHERE THERE IS LIMITED WATER EXPOSURE: INSTALL ONE LAYER OF 5/8" TYPE X WATER RESISTANT GYPSUM BOARD PER ASTM C1396 (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION AT THE FOLLOWING LOCATIONS:
- a. WITHIN 2 FEET HORIZONTALLY AND 4 FEET VERTICALLY OF JANITORS SINKS b. AT OTHER LOCATIONS, I.E. TOILET ROOMS AND KITCHENS, AND AS INDICATED ON THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS.
- 15. INSTALL ONE LAYER OF 5/8" GLASS MAT TILE BACKER BOARD IN LIEU OF GYPSUM BOARD (WHERE GYPSUM BOARD OCCURS) OF BASIC PARTITION WHERE THERE IS NO FIRE RATING AND OVER GYPSUM BOARD FACE LAYER AT FIRE RATED PARTITIONS AT THE FOLLOWING LOCATIONS. 16. AT WET LOCATIONS, SUCH AS SHOWER STALLS AND TUB SURROUNDS.
- a. WHERE CERAMIC TILE FINISHES ARE INDICATED PER THE FINISH PLANS AND/OR INTERIOR ELEVATIONS.
- b. AT OTHER LOCATIONS AS INDICATED BY THE ARCHITECTURAL FINISH PLANS AND ELEVATIONS. 17. WHERE NEW WALLS OR FURRING ARE INDICATED TO BE DIMENSIONED OFF OF AN EXISTING WALL,
- THE NEW WALL SHALL BE STRAIGHT AND PLUMB REGARDLESS OF THE CONDITION OF THE EXISTING WALL.
- 18. SEE DETAIL XX AND XX ON SHEET AXXX FOR TYPICAL FIRE EXTINGUISHER CABINET INSTALLATION (DETAILS



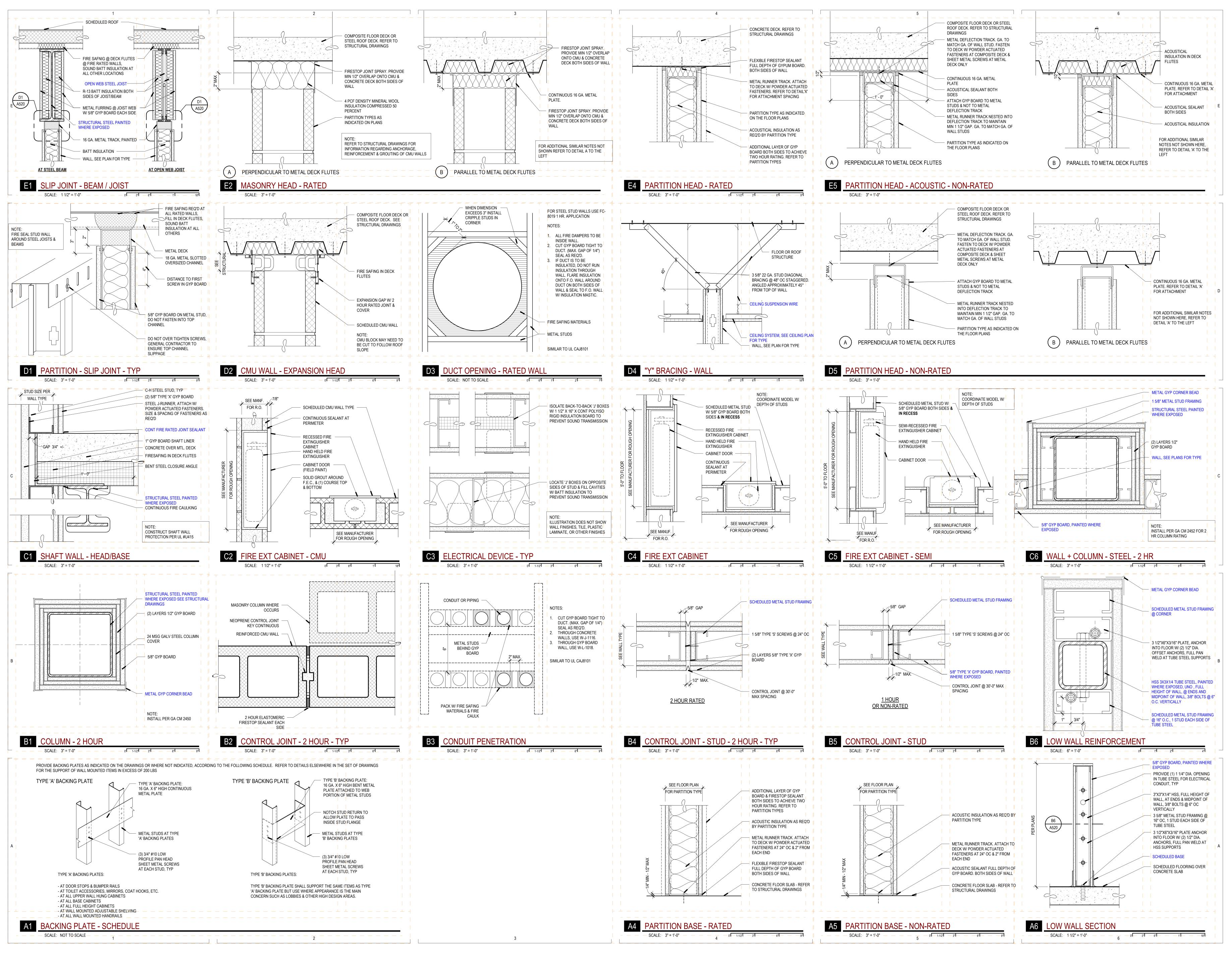


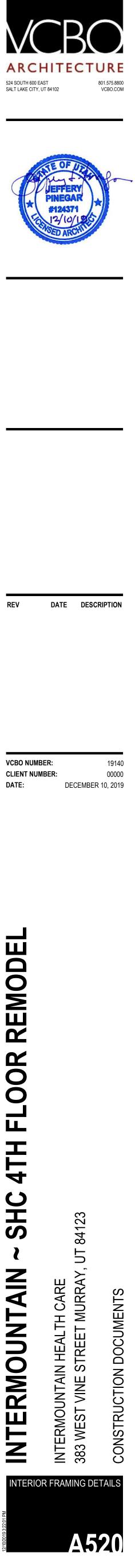
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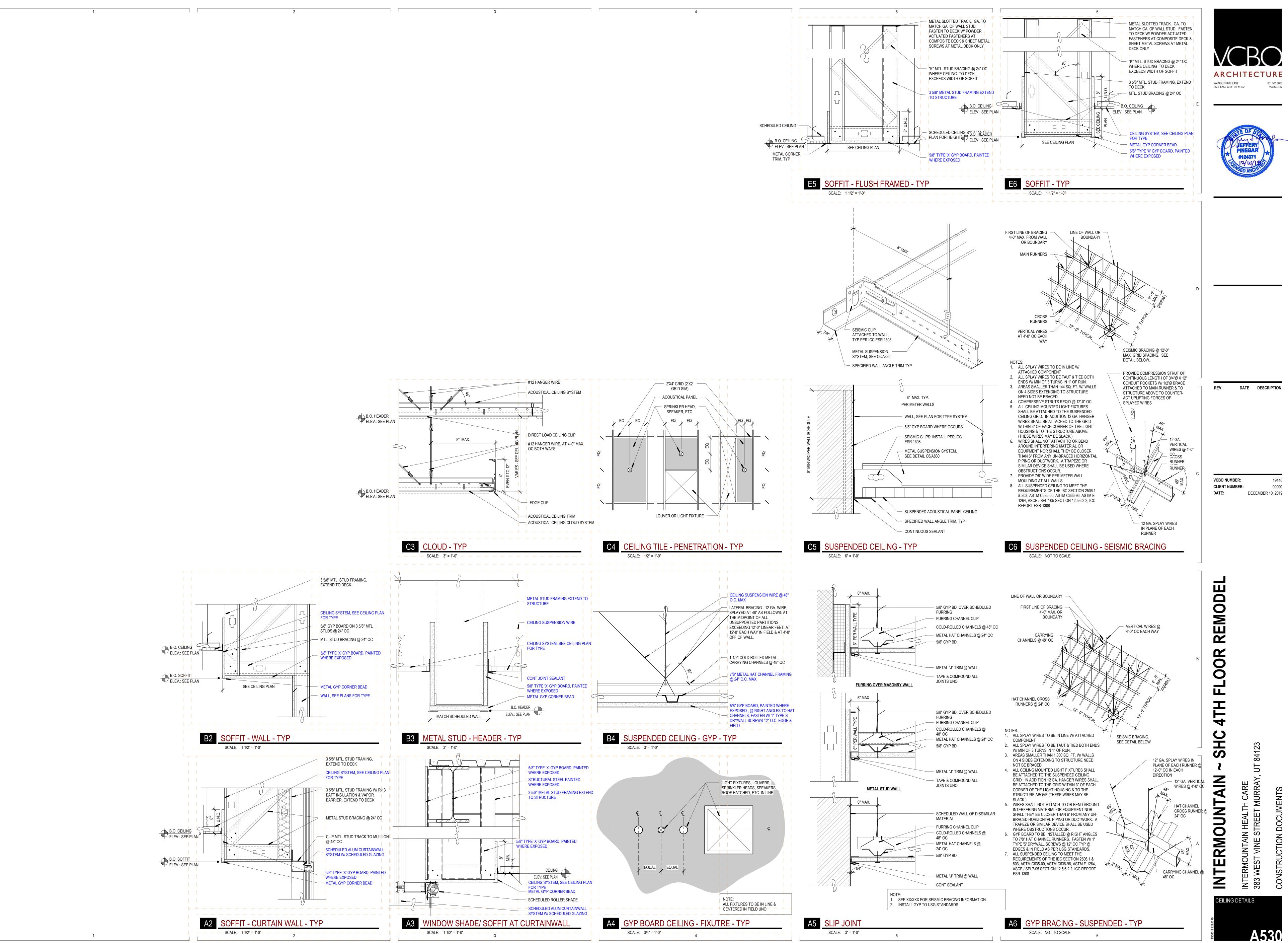
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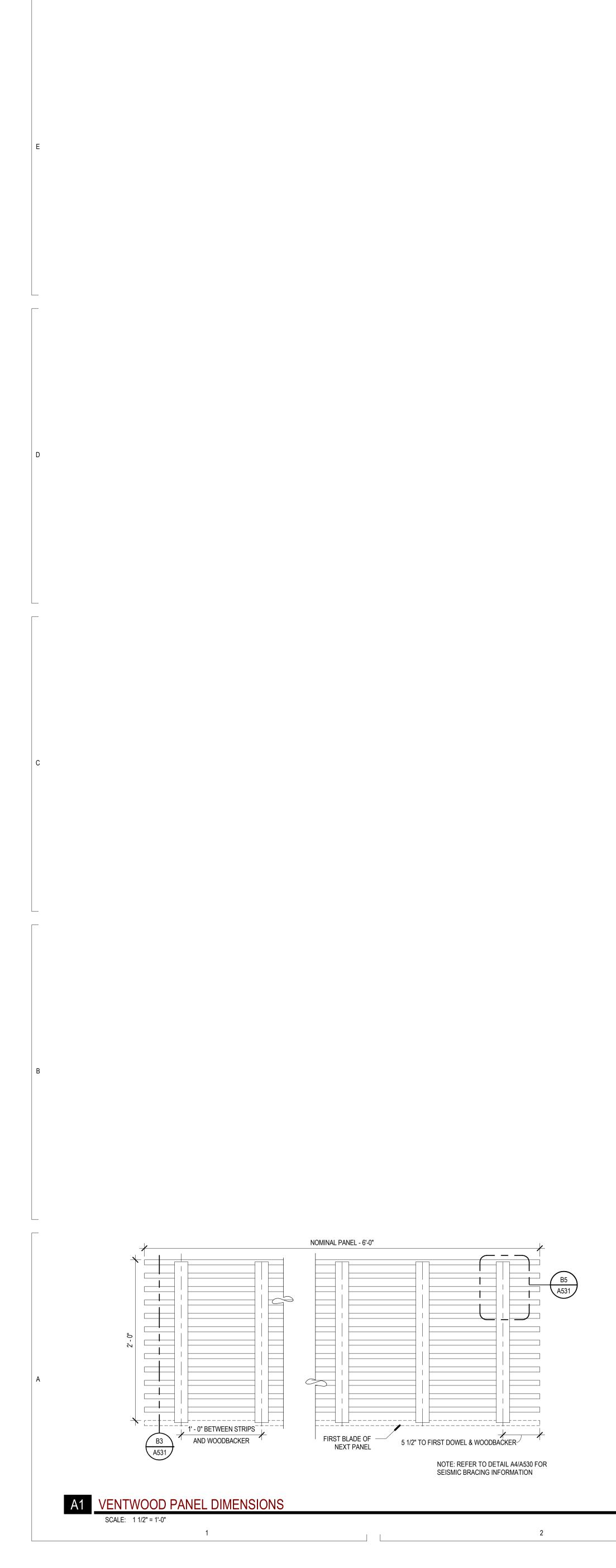
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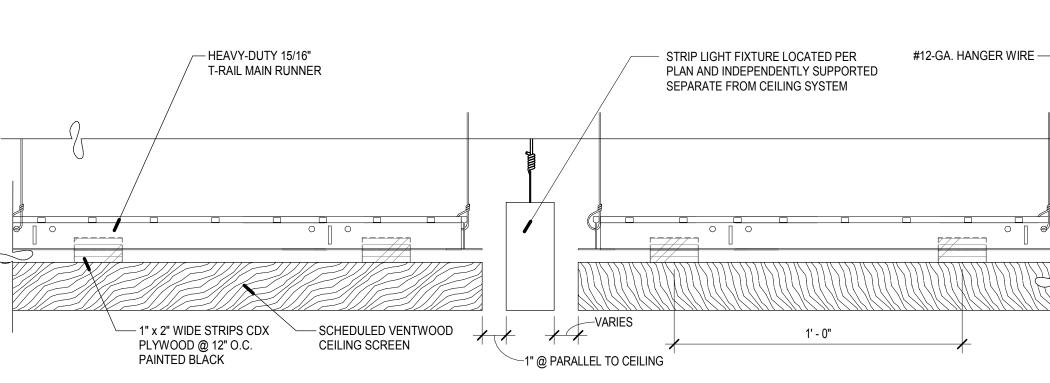




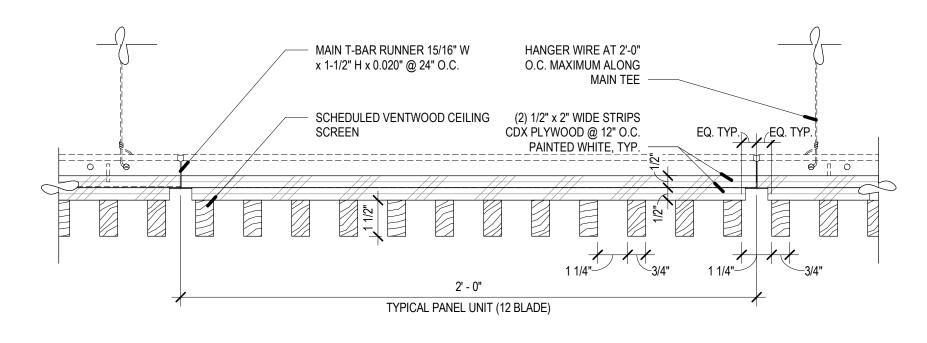


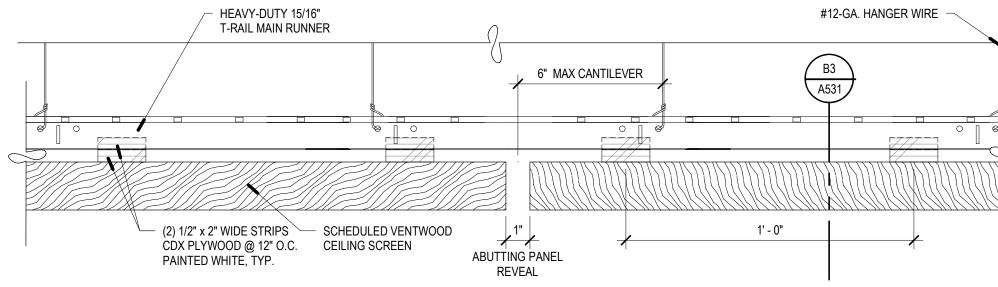


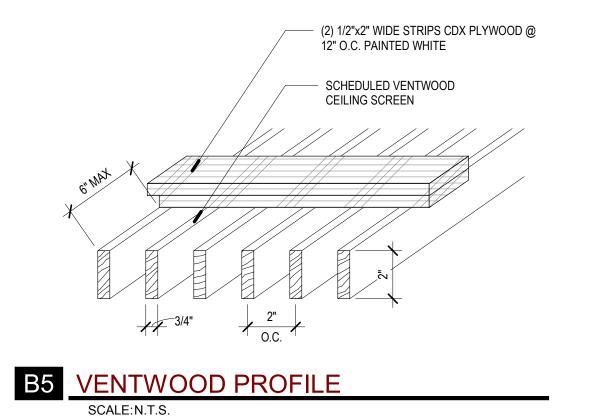


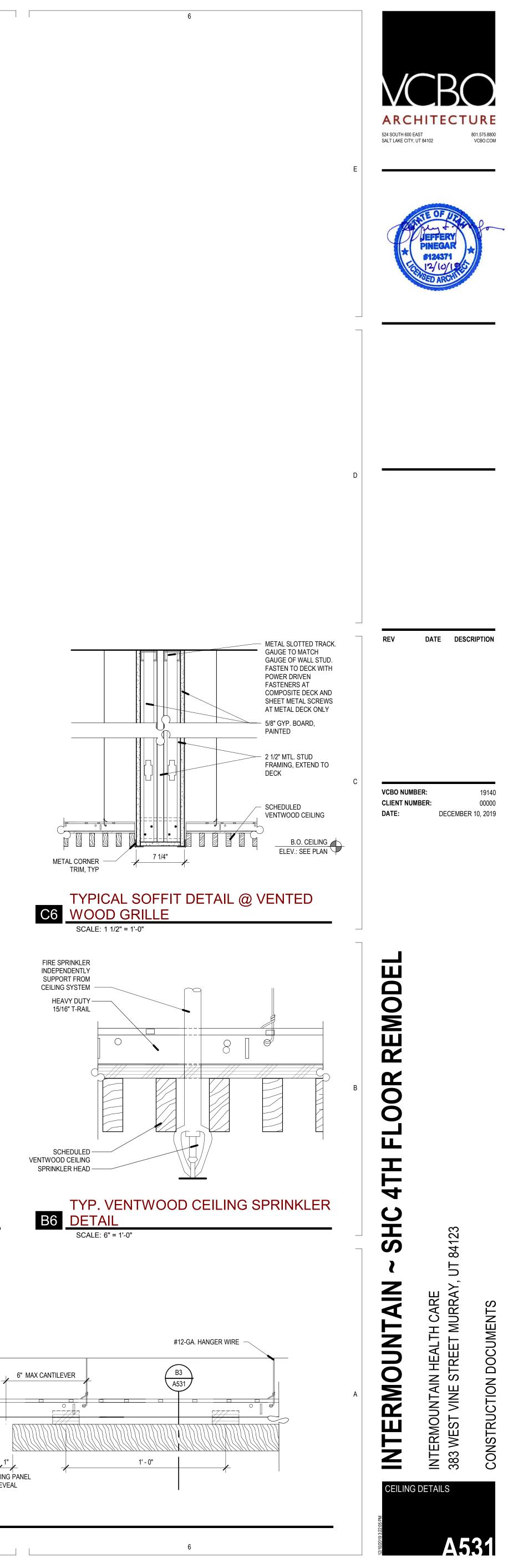


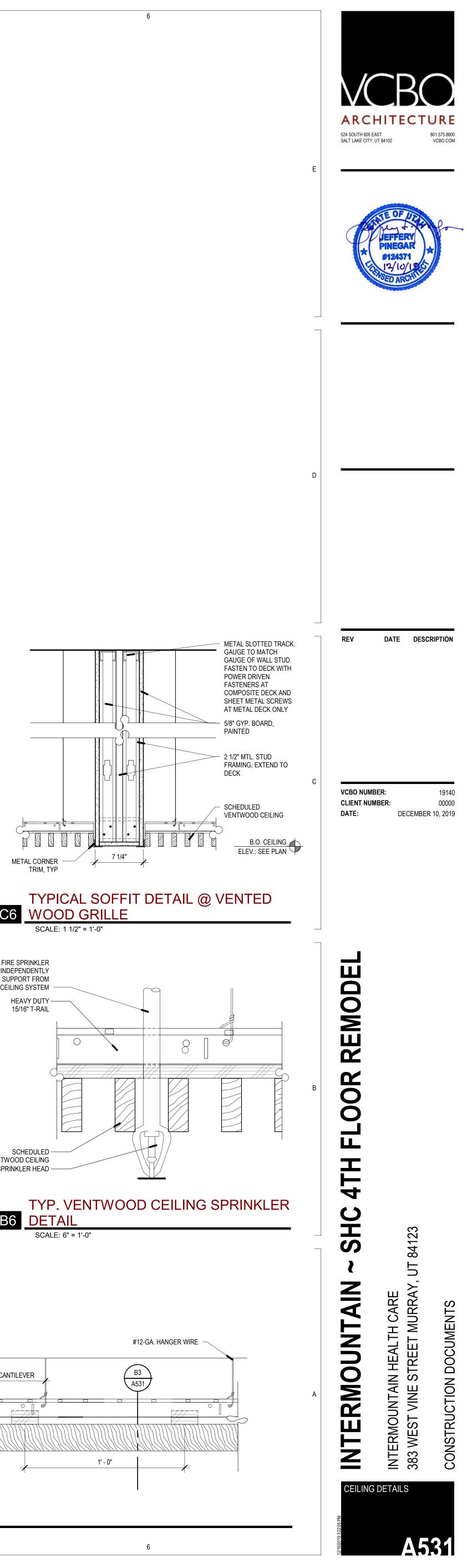


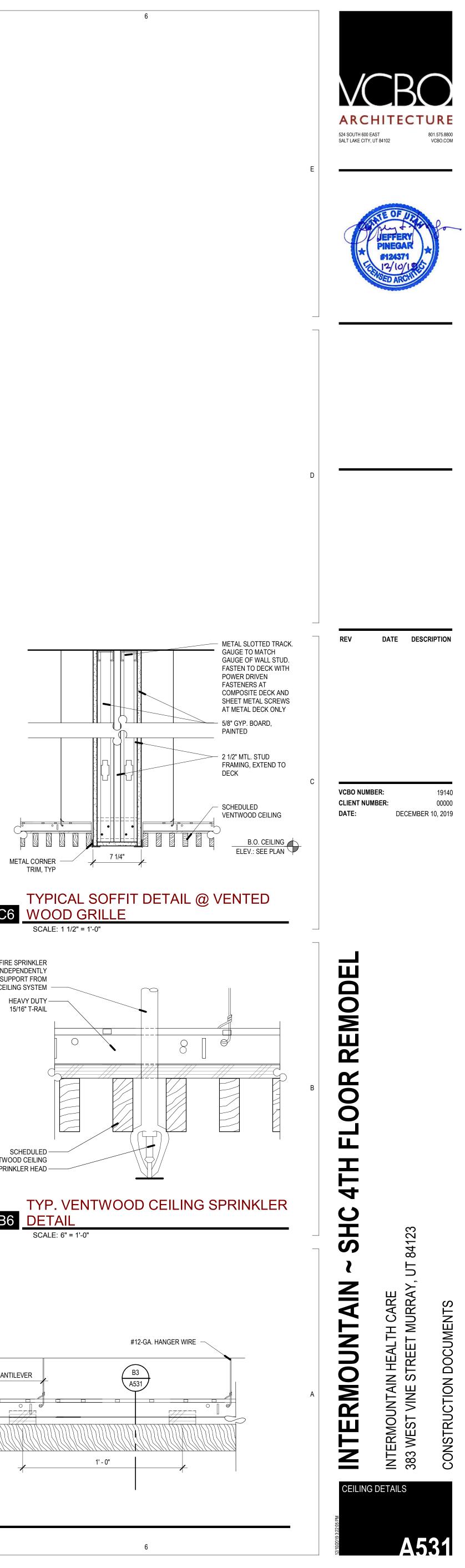


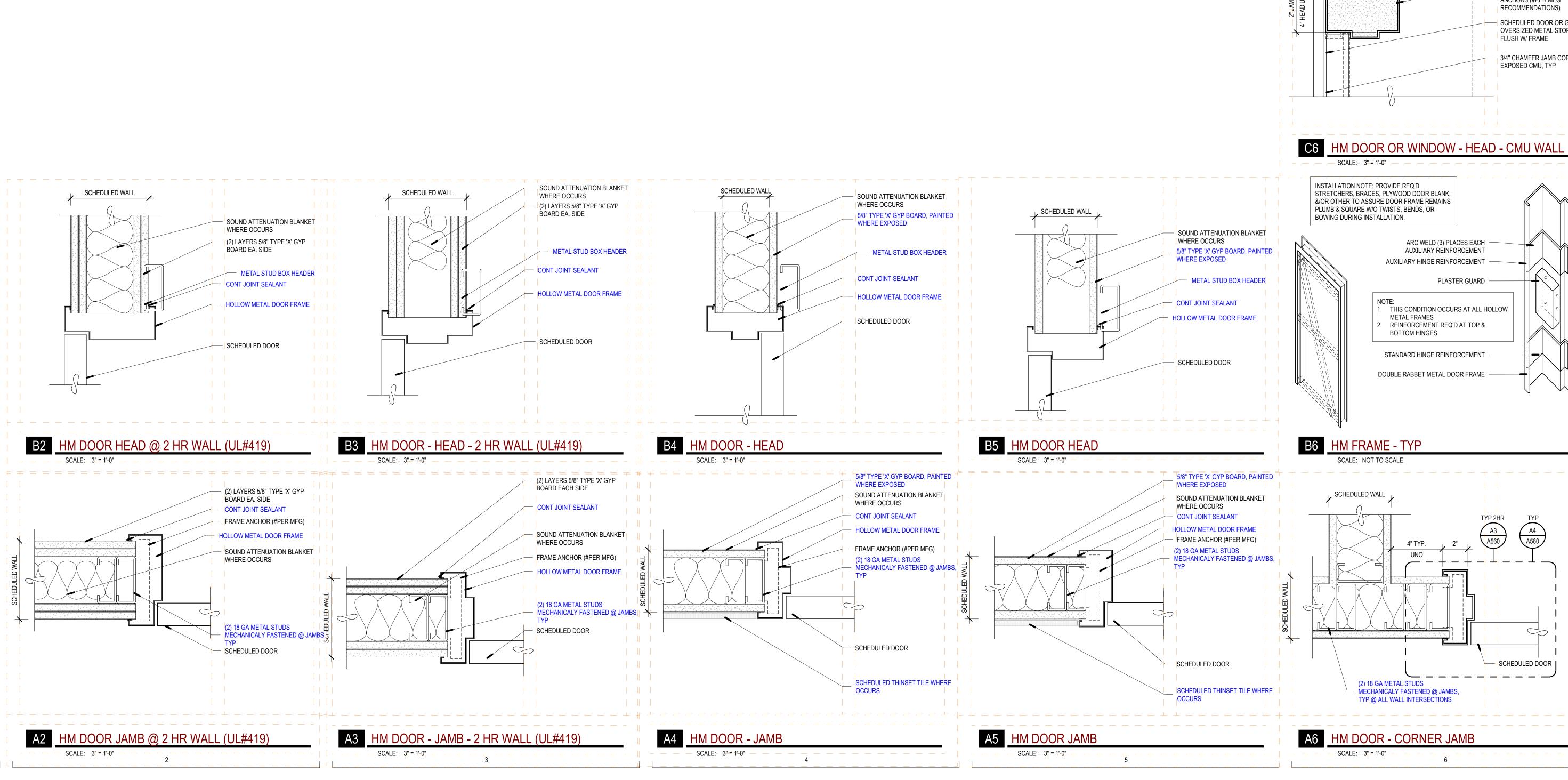


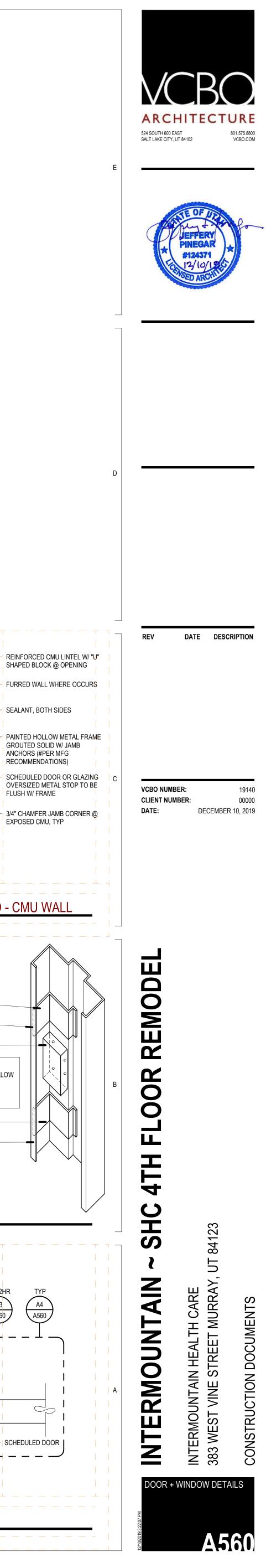


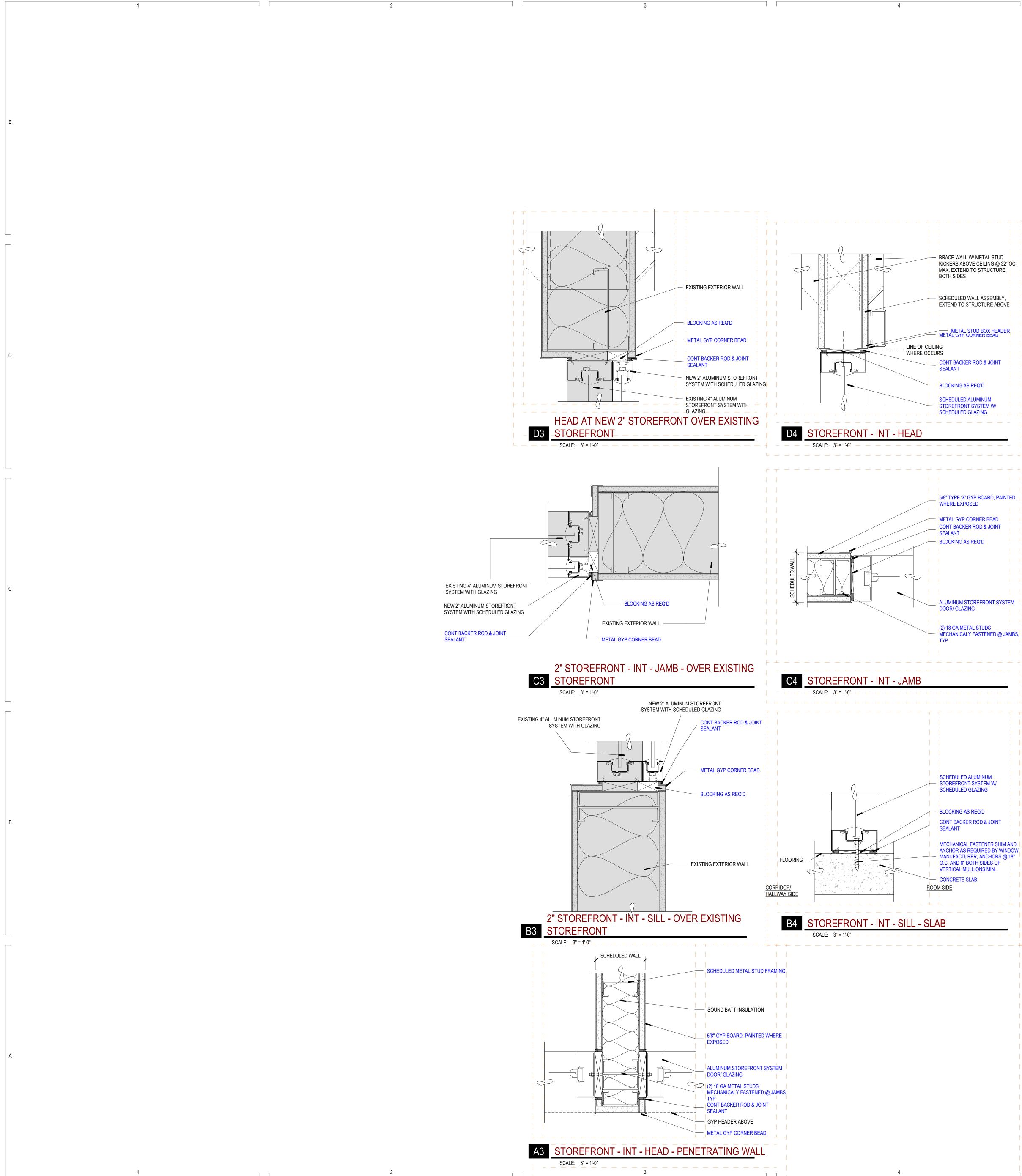


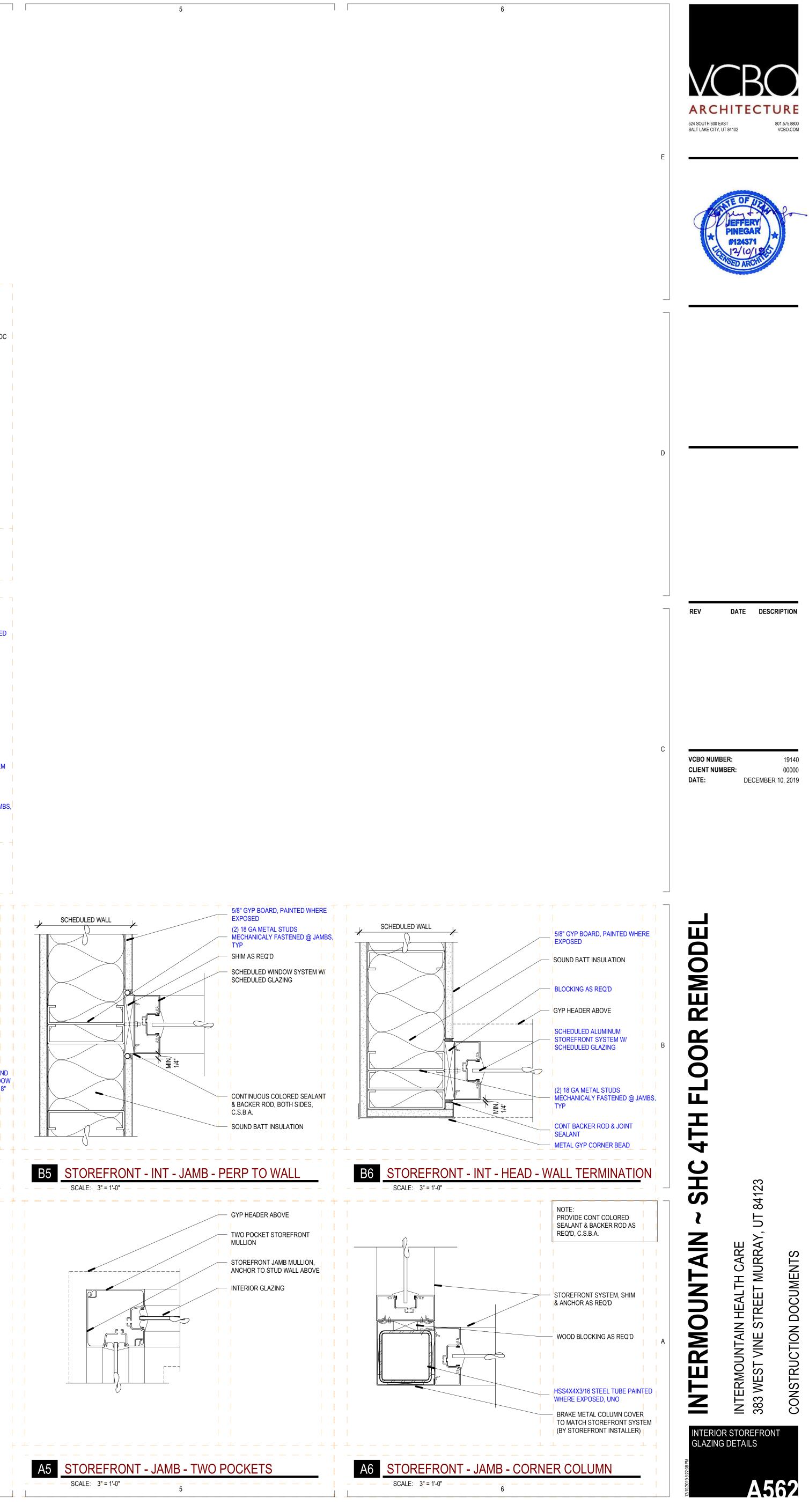






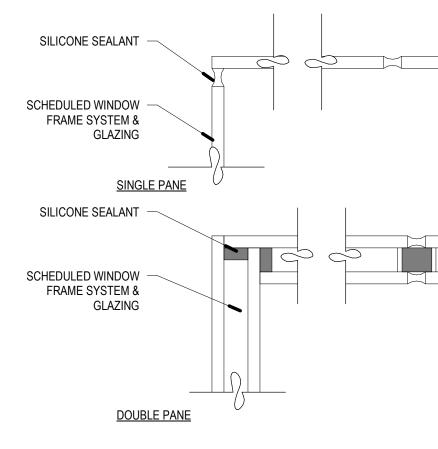




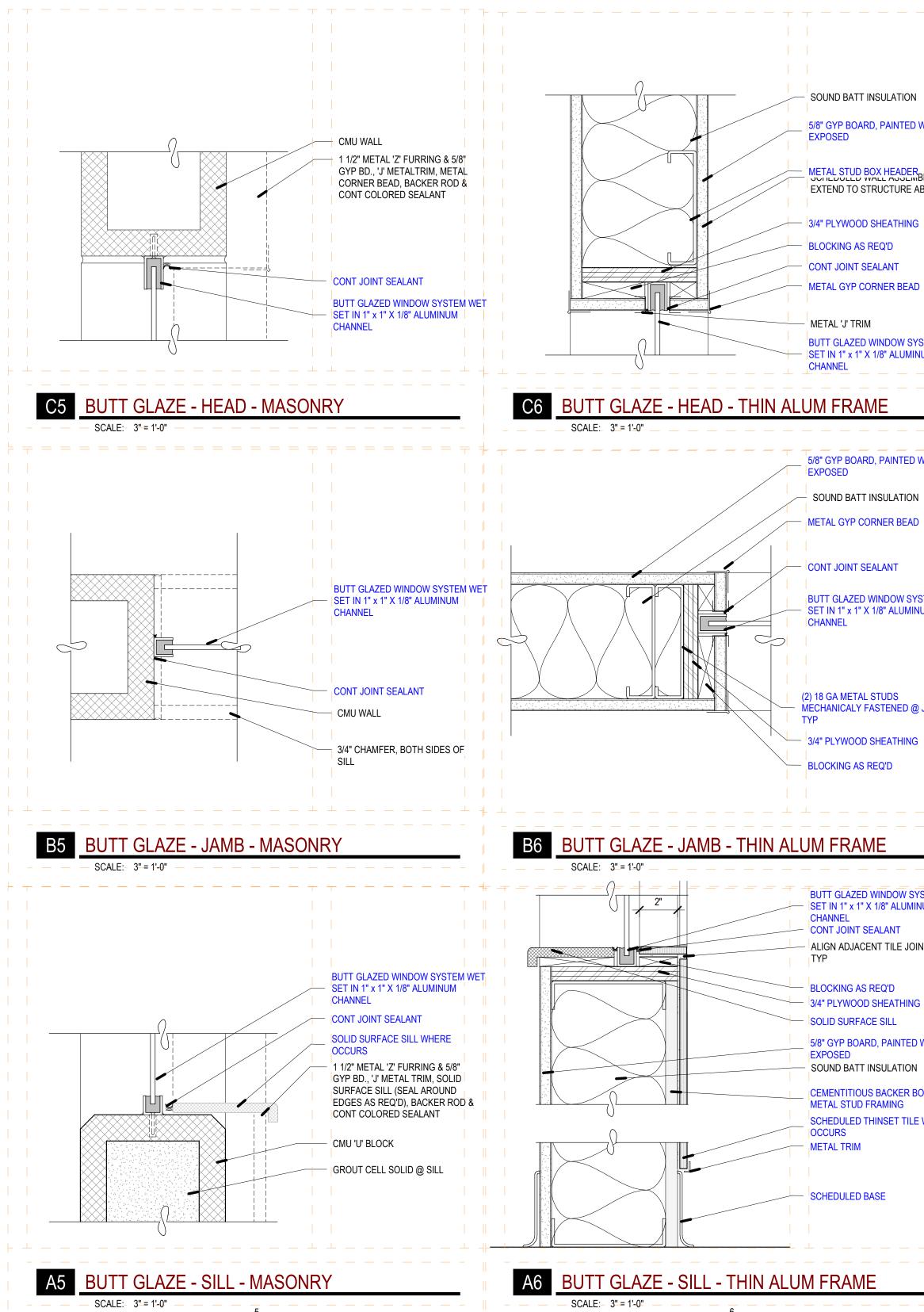


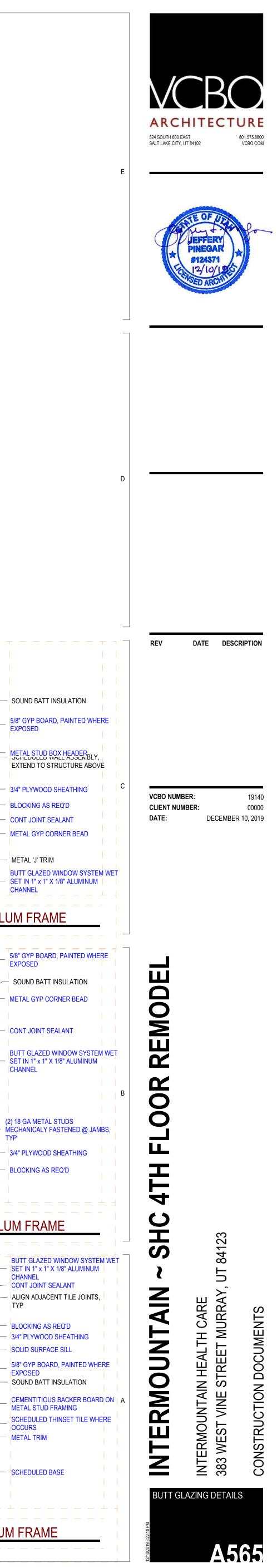
5/8" TYPE 'X' GYP BOARD, PAINTED

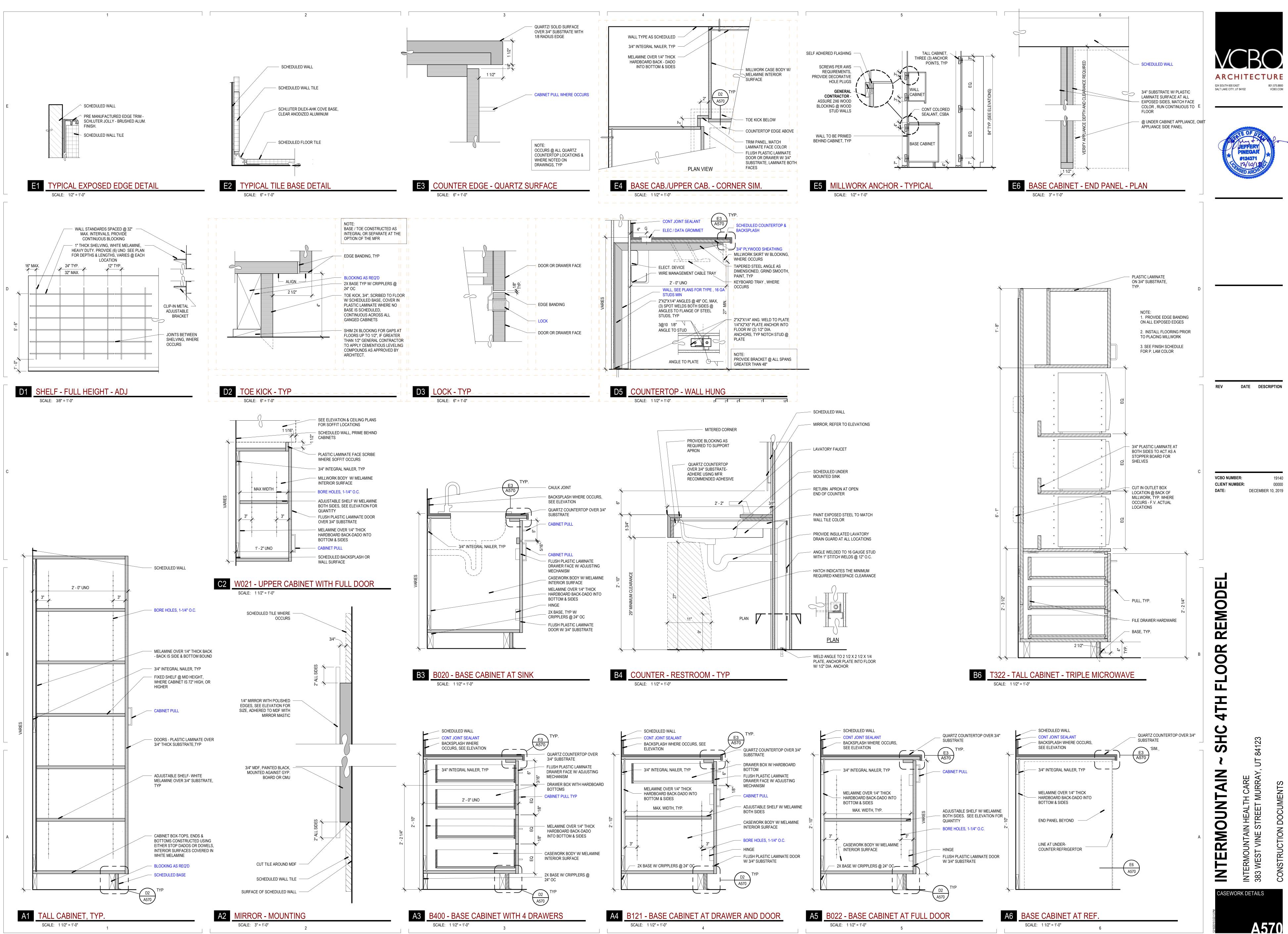
BRACE WALL W/ METAL STUD KICKERS ABOVE CEILING @ 32" OC MAX, EXTEND TO STRUCTURE,

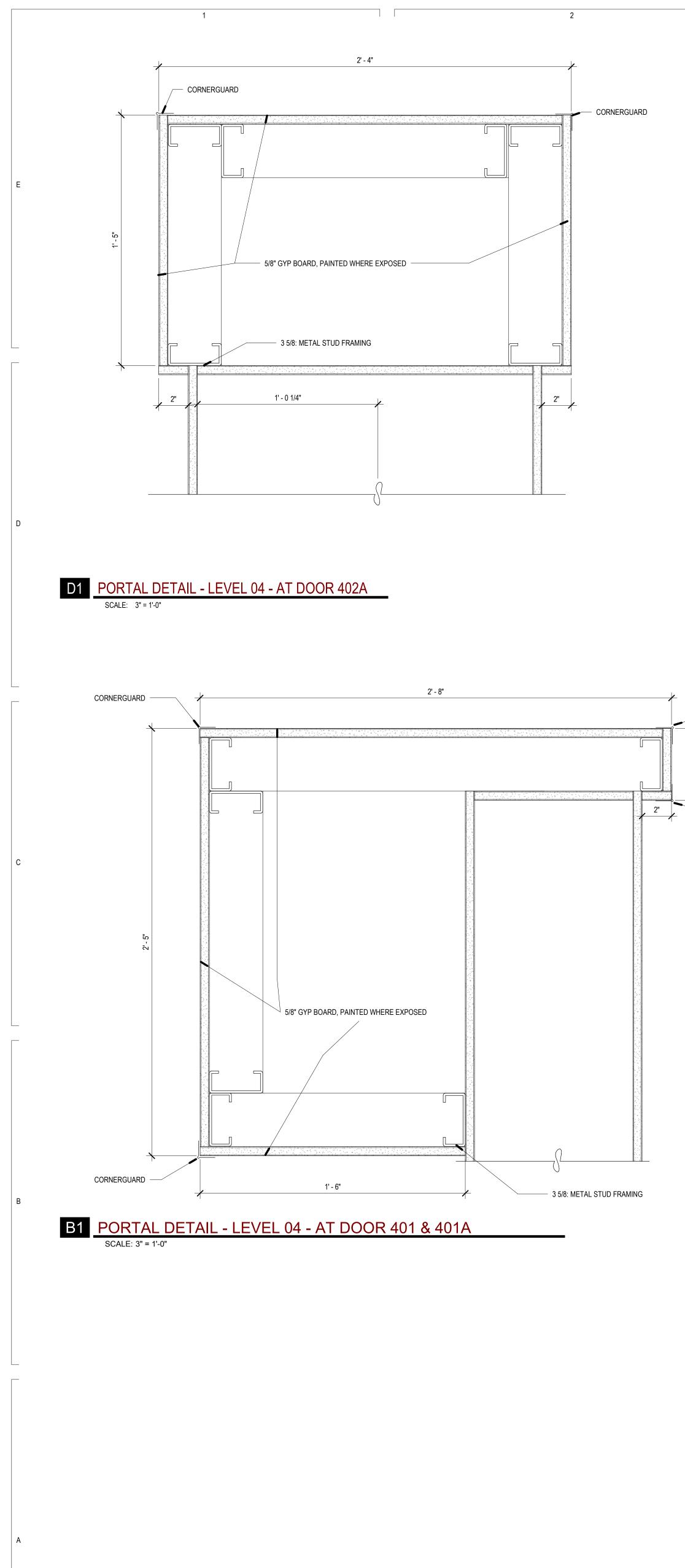


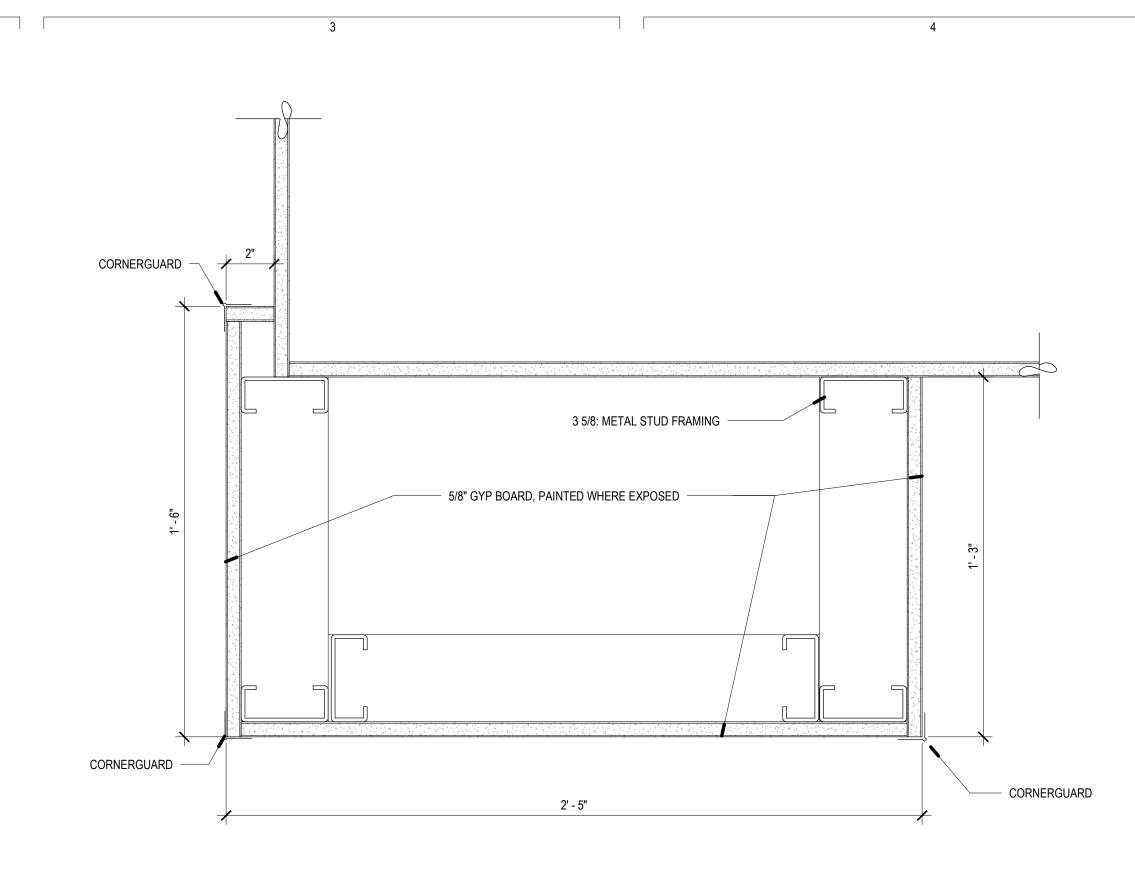
A4 BUTT GLAZE - JAMB - SEAL SCALE: 6" = 1'-0"





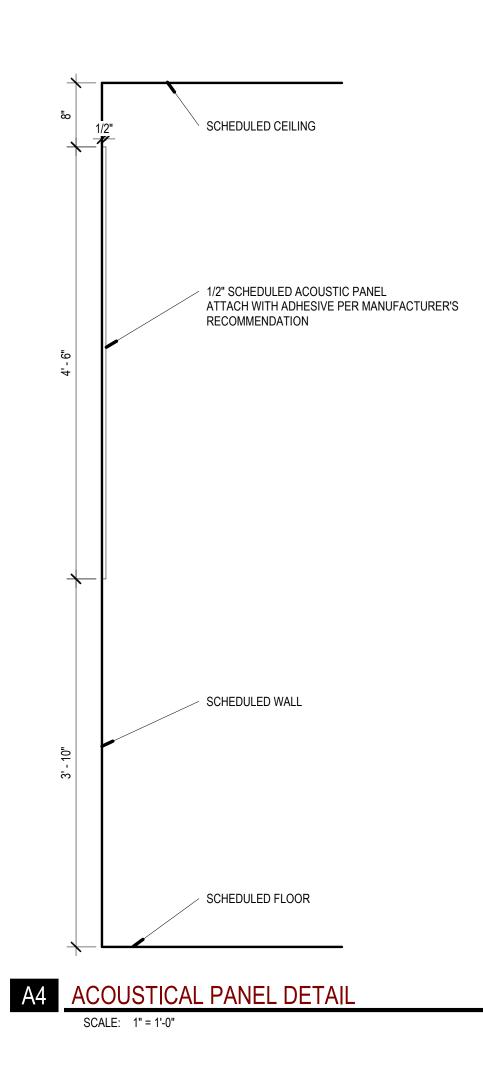




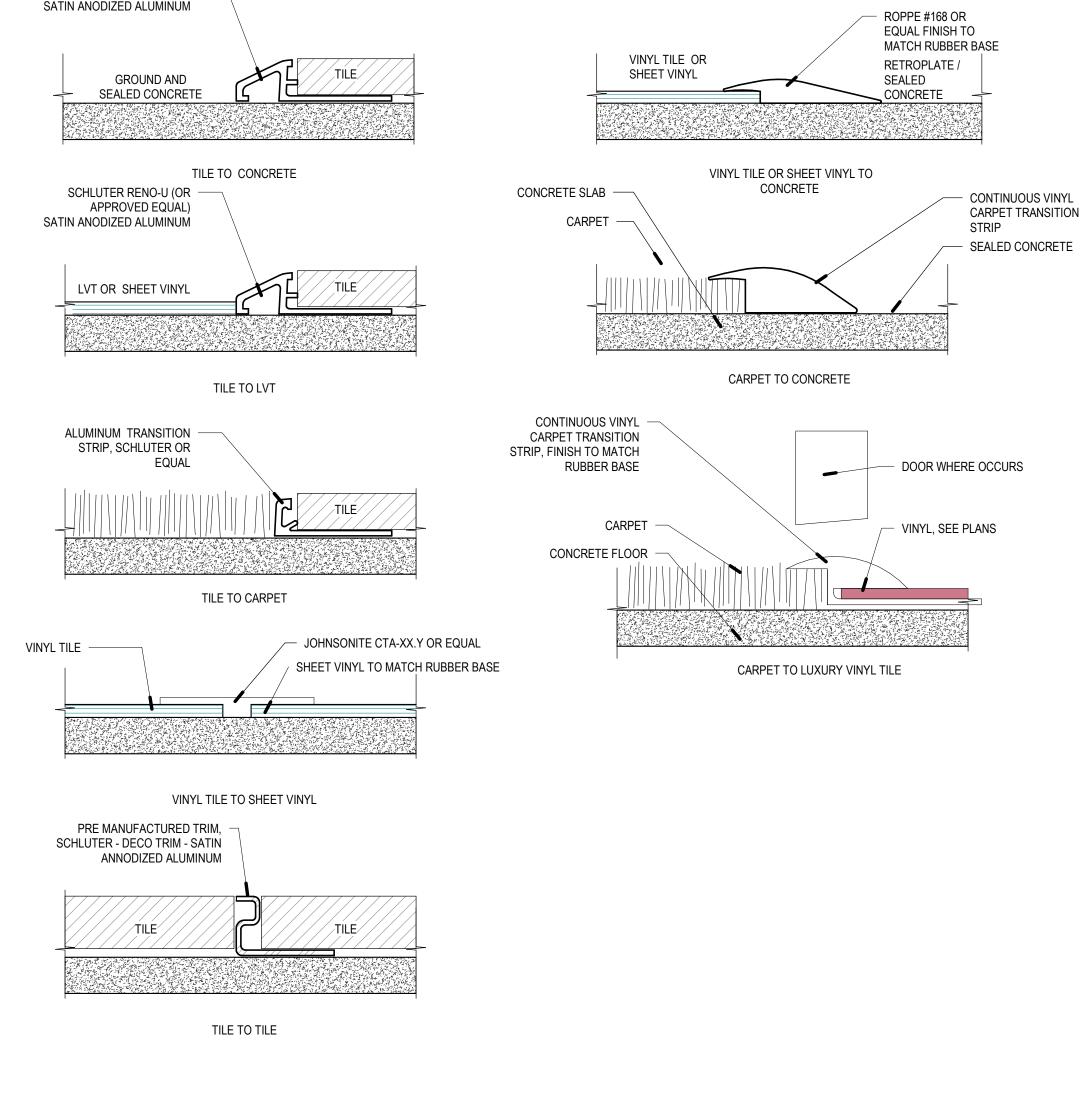


D3 PORTAL DETAIL - LEVEL 04 - AT DOOR 402 SCALE: 3" = 1'-0"

CORNERGUARD



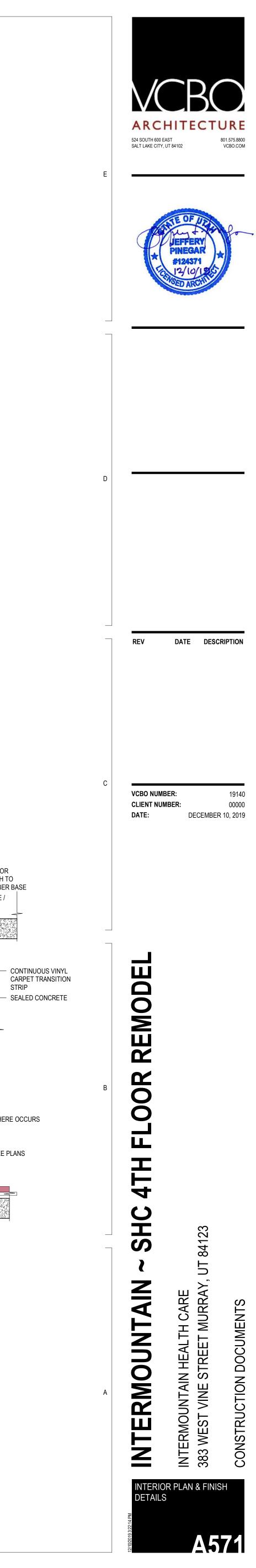
3



5

A5 TYP. FLOOR TRANSITIONS SCALE: 12" = 1'-0"

SCHLUTER RENO-U (OR --APPROVED EQUAL) SATIN ANODIZED ALUMINUM





1

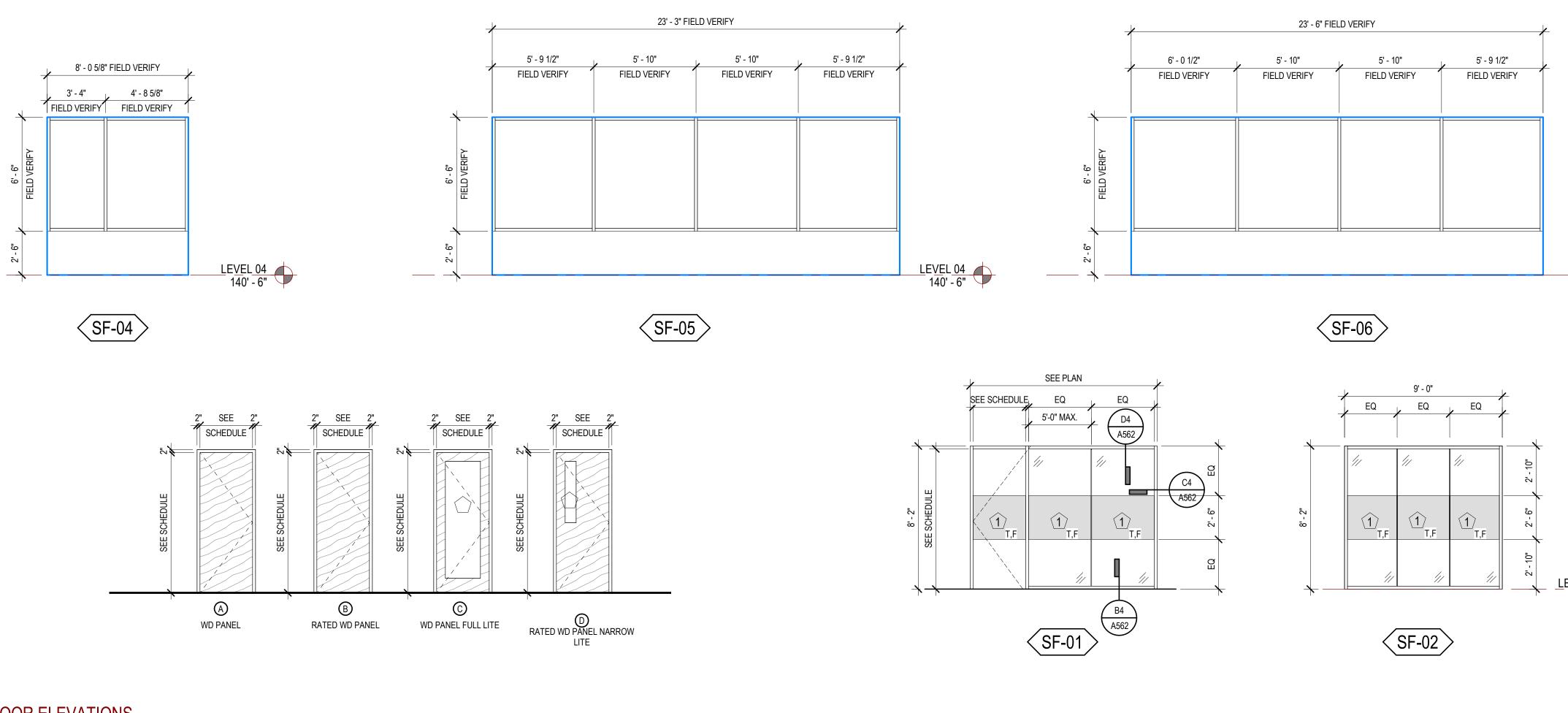
SF-03

2

3

								SCI	HEDULE	- DOOR	AND FR	AME				
				D	OOR				FRAME		D					
DOOR NUMBER	Room Name	WIDTH	SIZE	THICK	ELEV. TYPE	MATERIAL	FACING/FINISH	ELEV. TYPE	MATERIAL	FINISH/FACING	HARDWARE GROUP	GLAZING TYPE	LABEL (MIN.)	NOTES	DOOR NUMBER	To Room: Nam
401	ELEVATOR LOBBY	72"	96"	1 3/4"	С	WD	WD		AL	ANOD	01				401	OPEN WORK SPACE
401A	ELEVATOR LOBBY	72"	96"	1 3/4"	С	WD	WD		AL	ANOD	01				401A	ENTRY LOBBY
402 402A	ENTRY LOBBY ENTRY LOBBY	72" 72"	96" 96"	1 3/4" 1 3/4"	E	WD WD	STAIN STAIN		AL AL	ANOD ANOD	03 03				402 402A	OPEN WORK SPACE
411	STAIR 1	36"	96"	1 3/4"	D	WD	PNT		HM	PNT	02		60 MIN.		411	OPEN WORK SPACE
417	OPEN WORK SPACE	36"	96"	1 3/4"		НМ	PNT		HM	PNT	05				417	TELECOM
418	STAIR 2	36"	96"	1 3/4"	D	WD	PNT		HM	PNT	02		60 MIN.		418	OPEN WORK SPACE
421	LARGE COLLAB.	36"	96"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	09				421	ENTRY LOBBY
422	MEDIUM COLLAB.	36"	96"	1 3/4"	С	WD		SF-01	AL	ANOD	09				422	ENTRY LOBBY
423 424	MEDIUM COLLAB.	36" 36"	96" 104"	1 3/4" 1 3/4"	C C	WD WD	STAIN STAIN	SF-01 SF-01	AL AL	ANOD ANOD	09 09				423 424	ENTRY LOBBY OPEN WORK SPACE
425	SMALL COLLAB.	36"	96"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	09				425	OPEN WORK SPACE
426	SMALL COLLAB.	36"	96"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	09				426	OPEN WORK SPACE
427	COPY/WORK	36"	96"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	09				427	OPEN WORK SPACE
428	SMALL COLLAB	36"	96"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	09				428	OPEN WORK SPACE
429	SMALL COLLAB.	36"	96"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	09				429	OPEN WORK SPACE
430	MEDIUM COLLAB.	36"	96"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	09				430	OPEN WORK SPACE
431	WELLNESS ROOM	36"	96"	1 3/4"	A	WD	STAIN		AL	ANOD	08				431	HALL
432	SMALL COLLAB.	36"	96"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	09				432	OPEN WORK SPACE
433	I.T. ROOM	36"	96"	1 3/4"	A	WD	STAIN		AL	ANOD	04				433	OPEN WORK SPACE
434	STORAGE	36"	96"	1 3/4"	A	WD	STAIN		AL	ANOD	06				434	OPEN WORK SPACE
435	COPY/WORK AREA	36"	96"	1 3/4"	С	WD	STAIN		AL	ANOD	09				435	OPEN WORK SPACE
436	SMALL COLLAB.	36"	96"	1 3/4"	С	WD	STAIN		AL	ANOD	09				436	OPEN WORK SPACE
437	LARGE COLLAB.	36"	96"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	09				437	OPEN WORK SPACE
438	INDUSTRIAL HYGIENE	36"	96"	1 3/4"	A	WD	STAIN		AL	ANOD	04				438	NORTH ELEVATOR LOBBY
439 451	LARGE COLLAB. BREAK ROOM	36" 36"	84" 94"	1 3/4" 1 3/4"	C C	WD WD	STAIN STAIN	SF-01	AL AL	ANOD ANOD	09 10				439 451	OPEN WORK
452	PHONE	36"	84"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	08				452	SPACE OPEN WORK
453	PHONE	36"	84"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	08				453	SPACE OPEN WORK
454	PHONE	36"	84"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	08				454	SPACE OPEN WORK SPACE
455	PHONE	36"	84"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	08				455	OPEN WORK SPACE
456	PHONE	36"	84"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	08				456	
457	PHONE	36"	84"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	08				457	
458	PHONE	36"	84"	1 3/4"	С	WD	STAIN	SF-01	AL	ANOD	08				458	

4



A3 DOOR ELEVATIONS SCALE: 1/4" = 1'-0"

DOOR & FRAME NOTES

1. MATERIAL ABBREVIATIONS: WD = WOOD

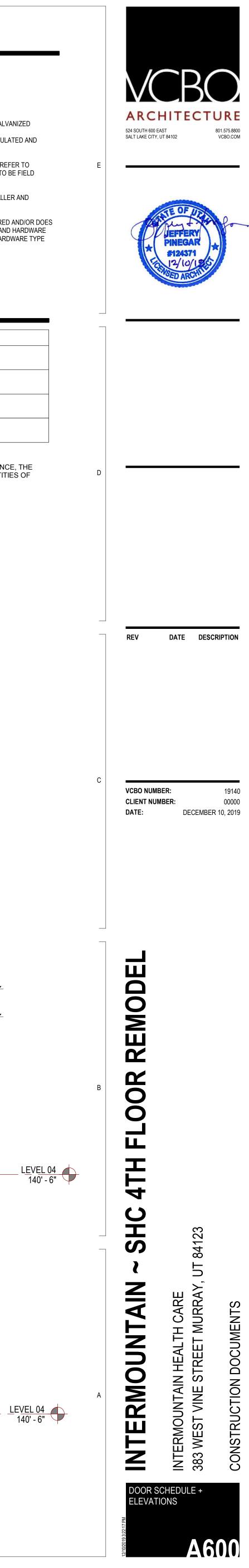
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- AL = ALUMINUM HM = HOLLOW METAL
- 2. SEE SPECIFICATION FOR HARDWARE GROUP DEFINITION
- 3. ALL HOLLOW METAL FRAMES OPENING TO THE EXTERIOR ARE TO BE GALVANIZED
- 4. ALL HOLLOW METAL DOORS OPENING TO THE EXTERIOR ARE TO BE INSULATED AND GALVANIZED
- 5. OVERALL ALUMINUM FRAME DIMENSIONS ARE GIVEN FOR REFERENCE, REFER TO DETAILS FOR JAMB AND SILL CONDITIONS. OVERALL DIMENSIONS ARE TO BE FIELD
- VERIFIED. 6. GENERAL CONTRACTOR TO COORDINATE WORK BETWEEN DOOR INSTALLER AND SECURITY SYSTEM INSTALLER
- 7. WHERE A DOOR IS SHOWN ON THE FLOORS PLANS BUT IS NOT NUMBERED AND/OR DOES NOT APPEAR IN THE DOOR SCHEDULE, THE FOLLOWING DOOR, FRAME AND HARDWARE ARE TO BE BID FOR THIS OPENING: DOOR TYPES **X**, FRAME TYPE **XX**, HARDWARE TYPE XX.
- 8. MATCH ALL HM FRAMES TO ADJACENT WALL PAINT COLOR

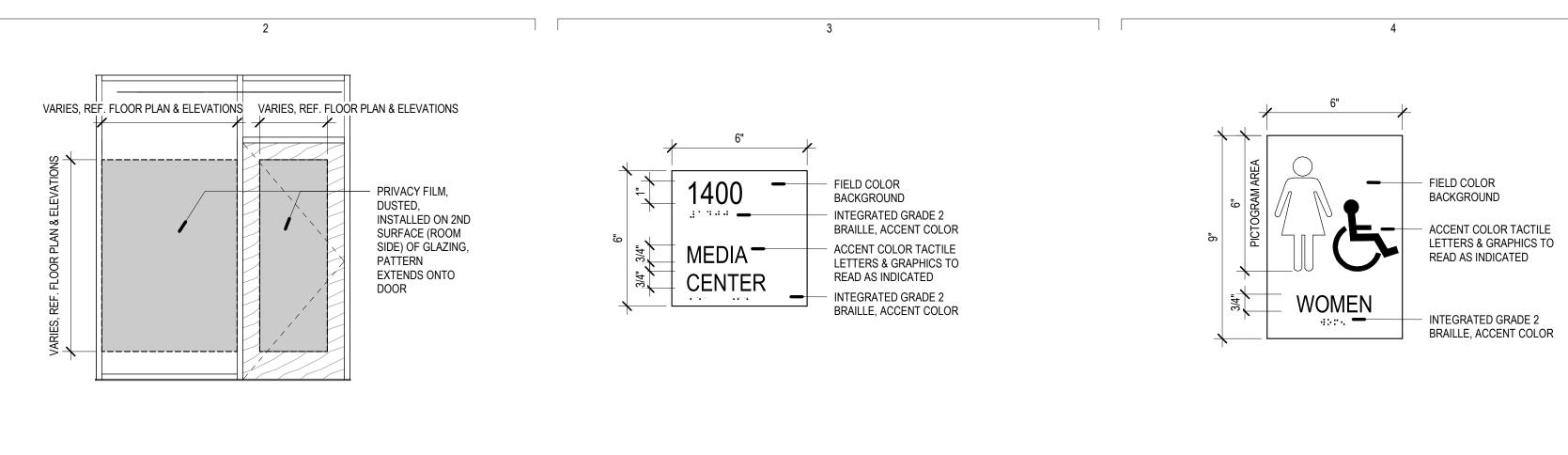
GLAZING TYPE LEGEND

MARK	DESCRIPTION
$\langle \hat{1} \rangle$	1/4" CLEAR, H.S. FLOAT GLAZING
(#) _F	WINDOW FILM, 3M GLASS FINISHES - FUSION PEARL
(#) _T	'T' INDICATES TEMPERED GLASS
Ê	EXISTING GLAZING

NOTE: WINDOW TYPE QUANTITIES PROVIDED FOR CONVENIENCE, THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE QUANTITIES OF EACH WINDOW TYPE.



					1						
		SIGNAGE SCHEDULE - LEVEL 04									
	Mark	Type Mark	Sign Room Number	Sign Text	Type Comments	Sign Notes					
		1	1	1							
	ST-1	STID		EXIT STAIR (STAIR ICON)							
	ST-2	STID		EXIT STAIR (STAIR ICON)							
	405-1	PRV		-							
	435-1	PRV		-							
	406-1	PRV		-							
	413	PRV		-							
	429	PRV		-							
	420-1	PRV		-							
E	421-1	PRV		-							
	422	PRV		-							
	426	PRV		-							
	434	PRV		-							
	418-1	PRV		-							
	419-1	PRV		-							
	436-1	PRV		-							
	431-1	PRV		-							
	403-1	SECR		-							
	408-1	PRV		-							
	430-1	PRV		-							
	428-1	PRV		-							
	416-1	PRV		-							
	410-1	PRV		-							
	411-1	PRV		-							
_	412-1	PRV		-							
	416-2	CODE		MECHANICAL							
	416-3	CODE		ELECTRICAL							
	407-1	PRV		-							
	433-1	MN		MEN (MALE ADA ICON)							
	433-2	WM		WOMEN (FEMALE ADA ICON)							
	403-2	PRV		-							

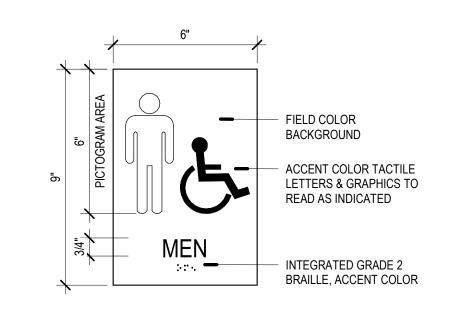












2 TYPE MN - MEN'S ADA RESTROOM

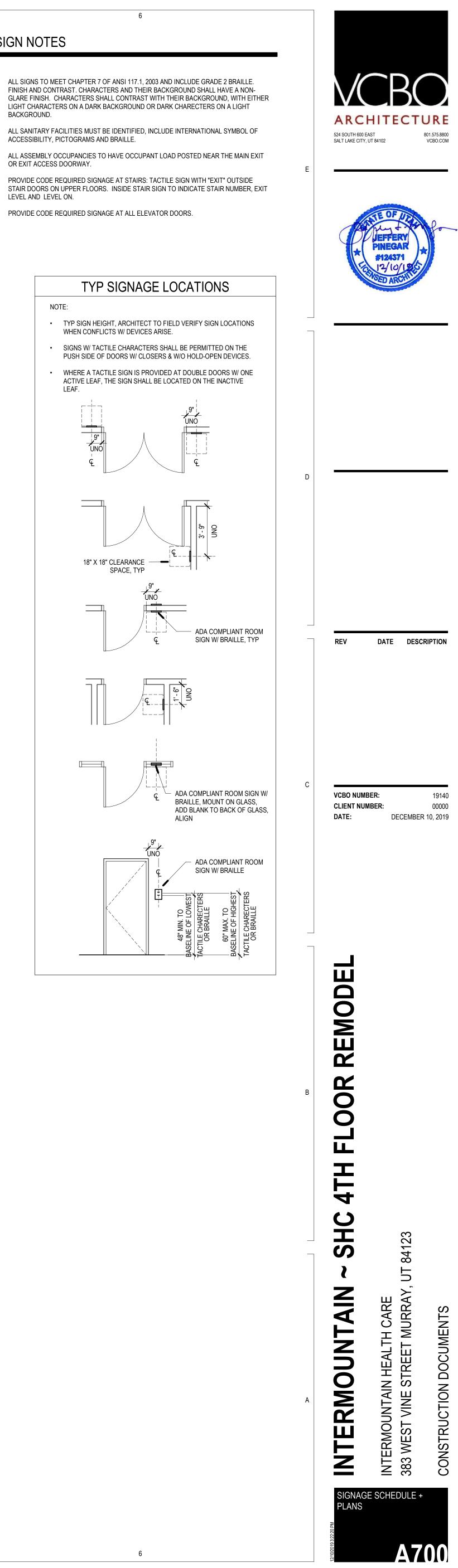
SCALE: 3" = 1'-0"

5

SIGN NOTES

- 1. ALL SIGNS TO MEET CHAPTER 7 OF ANSI 117.1, 2003 AND INCLUDE GRADE 2 BRAILLE. FINISH AND CONTRAST. CHARACTERS AND THEIR BACKGROUND SHALL HAVE A NON-LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARECTERS ON A LIGHT BACKGROUND.
- 2. ALL SANITARY FACILITIES MUST BE IDENTIFIED, INCLUDE INTERNATIONAL SYMBOL OF
- 3. ALL ASSEMBLY OCCUPANCIES TO HAVE OCCUPANT LOAD POSTED NEAR THE MAIN EXIT
- PROVIDE CODE REQUIRED SIGNAGE AT STAIRS: TACTILE SIGN WITH "EXIT" OUTSIDE STAIR DOORS ON UPPER FLOORS. INSIDE STAIR SIGN TO INDICATE STAIR NUMBER, EXIT LEVEL AND LEVEL ON.
- 5. PROVIDE CODE REQUIRED SIGNAGE AT ALL ELEVATOR DOORS.

NOTE: WHEN CONFLICTS W/ DEVICES ARISE. LEAF. UNO 9" ┝━━─ 18" X 18" CLEARANCE ____! SPACE, TYP UNO i_ _ |_ _ _ i ┓┍╢ 5 Г———Ц ALIGN



		MECHANICAL LEGEND		
GATE VALVE		CHILLED WATER SUPPLY		RETURN OR EXHAUST DUCT DOWN
05 & Y PATTERN GATE VALVE -		CHILLED WATER RETURN		RETURN OR EXHAUST DUCT UP
BALL VALVE -	—ō—	CONDENSER WATER SUPPLY	<u> </u>	
BUTTERFLY VALVE		CONDENSER WATER RETURN		
MOTORIZED BUTTERFLY VALVE		HEATING WATER SUPPLY	HWS	
HEAT TRACING	T 	HEATING WATER RETURN		
DEIONIZED WATER -	— DI ——	WATER TREATMENT	wt	
CHECK VALVE (SWING OR LIFT AS REQ'D) -		FIRE DEPT. HORN & LIGHT		
SOLENOID VALVE		HOT GAS	нс <u></u>	
AUTOMATIC CONTROL VALVE (2-WAY) -		FLEXIBLE PIPE CONNECTION		CEILING EXHAUST GRILLE
AUTOMATIC CONTROL VALVE (3-WAY) -		REDUCED PRESSURE BACKFLOW PREVE		
PRESSURE REDUCING VALVE		DIRECTION OF FLOW		
PRESSURE INDEPENDENT VALVE		ELBOW DOWN		MANUAL VOLUME DAMPER
P & T RELIEF VALVE			0	
AIR VENT (AUTOMATIC)				FIRE DAMPER
REFRIGERANT LIQUID -		TEE DOWN		THERMOSTAT OR TEMP SENSOR ①
REFRIGERANT SUCTION -		UNION		POINT OF CONNECTION TO EXISTING
THERMAL EXPANSION VALVE -	_∾			DETAIL TAG: DETAIL NO.
STRAINER -		DOMESTIC COLD WATER		KEYED NOTE NOTE NO.
	'`\>'	DOMESTIC HOT WATER		SECTION CUT LINE
CIRCUIT SETTER -		HOT WATER CIRC.		DRAWING NO.
FLOW METER -		TEMPERED WATER SANITARY (PLBG) VENT		CONTROL TRANSFORMER
PET COCK OR GAUGE COCK -				
PRESSURE GAUGE W/GAUGE COCK	$\underline{\nabla}$	SANITARY SEWER ABOVE GRADE		
THERMOMETER	Ē	SANITARY SEWER BELOW GRADE		WALL RATING (SEE PLANS)
TEMPERATURE & PRESSURE TEST PLUG -			D	MOTORIZED 120 POWER
		ROOF DRAIN PIPING	RD	WALL RATING (SEE PLANS)- SMOKE DAMPER
FLOW SWITCH —	F	OVERFLOW DRAIN PIPING	OD	MOTORIZED 1207 POWER WALL RATING (SEE PLANS)-
	Ą	STORM DRAIN PIPING ABOVE GRADE	SD	MOTORIZED CONTROL DAMPER
		STORM DRAIN PIPING BELOW GRADE	— — SD— —	
HOSE BIBB OR SILLCOCK -	— _+	FIRE SERVICE	—— F ——	OPPOSED BLADE DAMPER (NO MOTOR)
	_ v	NATURAL GAS	G	
FLOOR DRAIN		COMPRESSED AIR	—CA	FOR USE ON ROUND DUCTS
FLOOR SINK		VENT THROUGH ROOF	_//L	W/INTERLOCKING SEALS AND BLADES
HOT GAS BYPASS -	-HGBP	STEAM	s	COUNTERWEIGHTED DAMPER (NO MOTOR)
WALL CLEANOUT		CONDENSATE	— c —	
FLOOR OR GRADE CLEANOUT -	- Q	GREASE WASTE	GW	
GRADE CLEANOUT W/ CONCRETE PAD -	-Φ	SNOWMELT PIPING @ 8" O.C.		

SUBMITTAL NOTES:

4) SEISMIC

1

(1) CONTRACTOR TO ALLOW 10 WORKING DAYS FROM THE DATE RECEIVED IN ENGINEERS OFFICE FOR REVIEW OF SUBMITTALS.

(2) PARTIAL SUBMITTALS WILL BE REJECTED. CONTRACTOR MAY SPLIT INTO THE FOLLOWING CATEGORIES: 1) MECHANICAL DRY AND WET SIDE 2) PLUMBING 3) FIRE PROTECTION

(3) SUBMITTAL LITERATURE SHALL INCLUDE A REFERENCE TO THE PLAN CODE AND / OR SPECIFICATION AND SHALL INCLUDE CAPACITIES, SIZE OF EQUIPMENT, REQUIRED INSTALLATION AND OPERATING CLEARANCES.

(4) INCLUDE NAME AND PHONE NUMBER OF EACH SUPPLIER.

(5) IF SUBMITTALS ARE PROVIDED IN AN ELECTRONIC FORMAT, PROVIDE INDEXED FILE WITH NAVIGATION LINKS TO EACH ITEM.

GENERAL NOTES:

3

(1) 🚯 INDICATES POINT OF CONNECTION OF NEW TO EXISTING MECHANICAL, EQUIPMENT, PIPING OR DUCTWORK. (2) COORDINATE ALL FIRE SPRINKLER HEADS AND AIR DEVICE LOCATIONS WITH REFLECTED CEILING PLANS AND ELECTRICAL DRAWINGS.

4

- (3) DUCTWORK SHALL BE INSULATED AS FOLLOWS: LINED OR WRAPPED R-VALUE MEDIUM PRESSURE DUCT UP TO VAV BOX: WRAPPED R-6 ROUND DUCTWORK: WRAPPED R-6 LOW PRESSURE RECTANGULAR DUCTWORK: LINED R-6 ROUND FLEXIBLE DUCT (MAX 6' LONG) N/A R-6 DUCTWORK INSTALLED OUTSIDE THE BUILDING DOUBLE WALL R-8 *ALL INSULATION TO MEET NEPA 90 PER UL 181-CLASS 1. NO DUCTBOARD ALLOWED.
- (4) ALL DUCT IS TO BE WRAPPED UP TO THE VAV'S. DUCTWORK DOWNSTREAM OF THE VAV'S IS TO BE LINED OR WRAPPED IF ROUND. NO DUCTBOARD IS ALLOWED.
- (5) DUCTWORK AND PIPE ROUTING AS SHOWN ON DRAWINGS IS DIAGRAMMATIC AND IS NOT TO BE SCALED. WHERE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS ARE REQUIRED FOR COORDINATION OF WORK, THIS CONTRACTOR SHALL MAKE CHANGES WITHOUT ADDITIONAL COSTS.
- (6) THIS CONTRACTOR SHALL CLOSELY COORDINATE NEW MECHANICAL WITH NEW AND EXISTING MECHANICAL, ELECTRICAL, ARCHITECTURAL AND BUILDING STRUCTURE. (7) THIS CONTRACTOR SHALL VISUALLY FIELD VERIFY ALL MECHANICAL ITEMS PRIOR TO STARTING NEW WORK. ADDITIONAL COST WILL NOT BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH
- EXISTING SITE CONDITIONS. (8) THIS CONTRACTOR SHALL USE SMACNA DUCT CONSTRUCTION STANDARDS FOR SHEET METAL DUCTS. ALL HIGH PRESSURE DUCTWORK UPSTREAM OF VAY TERMINAL BOXES SHALL BE CONSTRUCTED FOR 2" W.C. ALL DUCT SHALL BE RATED FOR SEAL CLASS "A".
- (9) ALL MECHANICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT ADOPTED EDITION OF THE BUILDING CODES, FIRE CODES, MECHANICAL CODES AND PLUMBING CODES.
- (10) THIS CONTRACTOR SHALL PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL EQUIPMENT LIST TO THE ENGINEER FOR REVIEW PRIOR TO THE ORDER, PURCHASE OR INSTALLATION.
- (11) ALL VAY BOXES, RTU'S, WATER FLOW RATES AND DIFFUSERS MUST BE BALANCED TO THE VALUES INDICATED ON THE FLOOR PLANS. PROVIDE BALANCE REPORT TO ENGINEER PRIOR TO PROJECT CLOSEOUT.
- (12) DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
- (13) FIRE SPRINKLER CONTRACTOR SHALL ADD AND/OR RELOCATE SPRINKLER HEADS PER REFLECTED CEILING PLAN AND THE CURRENT ADOPTED EDITION OF NEPA AND BUILDING CODE.
- (14) ALL DOMESTIC COLD AND DOMESTIC HOT WATER PIPING SHALL BE TYPE 'L' COPPER. ALL WASTE AND VENT PIPING SHALL BE ABS/PVC UNDERGROUND AND CAST IRON ABOVE GROUND. ALL ROOF AND OVERFLOW DRAINAGE PIPING TO BE ABS/PVC UNDERGROUND AND CAST IRON ABOVE GROUND.
- (15) VENT THE HIGH POINTS OF NEW MECHANICAL PIPING.
- (16) <u>PIPING MATERIAL REQUIREMENTS</u>: DOMESTIC COLD WATER PIPING - TYPE 'L' COPPER DOMESTIC HOT WATER PIPING - TYPE 'L' COPPER ABOVE GRADE WASTE, STORM AND VENT PIPING - CAST IRON BELOW GRADE WASTE, STORM AND VENT PIPING SCH. 40 PVC CONDENSATE DRAIN PIPING - TYPE 'L' COPPER
- (17) PROVIDE / INSTALL INSULATION FOR:
- a. HEATING WATER SUPPLY AND RETURN PIPING: 1" THICK FOR PIPE SIZES UP TO AND INCLUDING $1\frac{1}{2}$ ".
- 2" THICK FOR PIPE SIZES 2" AND LARGER. b. DOMESTIC HOT WATER PIPING:
- I" THICK FOR ALL PIPE SIZES. c. DOMESTIC COLD WATER PIPING:
- $\frac{1}{2}$ " THICK FOR PIPE SIZES $\frac{1}{2}$ " TO 6".
- (18) INSULATE PIPING WITH FIBERGLASS PIPE COVERING WITH ALL SERVICE JACKET AND SELF-CAP SEAL. FITTINGS SHALL BE MITERED PIPING COVERING OF GLASS FIBER MOLDED FITTINGS FOR USE IN A RETURN AIR PLENUM. THERMAL CONDUCTIVITY SHALL BE A MAXIMUM OF .25/INCH THICKNESS AT 75°F. EACH TRADE IS RESPONSIBLE FOR THEIR OWN FIRE CAULKING.
- (19) M.C. MUST PROVIDE AND INSTALL ALL ACCESS DOORS FOR VAV'S, VALVES, FLOW METERS, ETC. COORDINATE LOCATION WITH GENERAL CONTRACTOR.
- 20 ALL TAKE-OFF'S THROUGHOUT THE ENTIRE BUILDING SHALL BE HIGH EFFICIENCY TAKE-OFF'S (HET'S). NO EXCEPTIONS TAKEN.
- (21) ALL RETURN AIR GRILLES SHALL HAVE SOUND BOOTS W/ LINED INSULATION. INSULATION IS TO BE PAINTED FLAT BLACK,
- (22) ALL DUCTWORK IS TO BE INSTALLED AS HIGH UP AS POSSIBLE. ALL DUCTWORK MUST BE INSTALLED NO LOWER THAN 12" FROM WHERE IT IS BEING SUPPORTED OR SEISMIC BRACING WILL BE REQUIRED. IF DUCTWORK IS INSTALLED BELOW 12" FROM WHERE IT IS SUPPORTED, IT IS THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO HAVE SEISMIC SUPPORTS ENGINEERED FOR THE JOB BY A LICENSED ENGINEER.
- (23) SEISMACALLY BRACED EQUIPMENT, DUCTWORK AND PIPING PWER THE REQUIREMENTS OF THE LATEST ADOPTED EDITION OF THE BUILDING CODE. SEISMIC SUBMITTALS WILL BE REQUIRED. THE SUBMITTALS WILL NEED TO INCLUDE CALCULATIONS AND DETAILS FOR SUPPORTS AND ANCHORING EQUIPMENT, PIPING AND DUCTWORK. THE SUBMITTALS WILL NEED TO BE STAMPED AND SIGNED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF UTAH.
- (24) INSTALL NEW BUILDING MANAGEMENT SYSTEM (BMS) FOR NEW MECHANICAL ITEMS. ALL EXISTING THERMOSTATS (T-STAT) ON LEVEL 4 OF THE BUILDING SHALL BE REPLACED AND CONNECTED TO NEW BMS SYSTEM. REFER TO ATKINGON SYSTEMS FOR CONTROLS.
- (25) ALL THERMOSTAT LOCATIONS ON THE PLANS SHALL COORDINATED WITH FURNITURE PLANS AND VERIFIED WITH OWNER PRIOR TO ROUGH IN. IF THERMOSTAT NEEDS TO BE INSTALLED IN A LOCATION OTHER THAN SHOUN ON THE PLANS, THIS CONTRACTOR SHALL MAKE ADJUSTMENTS AT NO ADDITIONAL COST. ALL T-STATS MUST BE MOUNTED AT 48" A.F.F. TO THE TOP OF THE STAT AND BE 7 DAY PROGRAMMABLE.
- (26) INDICATES EXISTING OR FUTURE, ------ INDICATES NEW MATERIAL, IF THERE ARE ANY DISCREPANCIES AS TO WHAT IS NEW AND WHAT IS EXISTING, CONTRACTOR IS TO CONTACT THE ARCHITECT AND/OR MECHANICAL ENGINEER. THE EXISTING SHELL DOCUMENTS ARE AVAILABLE THROUGH THE ARCHITECT. ADDITIONAL COSTS WILL NOT BE TOLERATED FOR THE CONTRACTORS FAILURE TO BECOME FAMILIAR WITH EXISTING SHELL AND SITE CONDITIONS.
- (27) PROVIDE AND INSTALL PIPE IDENTIFICATION ON NEW PIPING WITH SEMI-RIGID PLASTIC IDENTIFICATION MARKERS WITH FLOW DIRECTION ARROWS AND SERVICE DESIGNATION. MATCH EXISTING BUILDING STANDARDS.
- (28) REPAIR AND OR REPLACE ANY BUILDING COMPONENT DAMAGED AND NOT SCHEDULED TO BE DEMOLISHED WHILE PERFORMING THIS WORK. RESTORE FINISHES OF ANY PATCHED AREAS.
- (29) MECHANICAL CONTRACTOR IS TO COORDINATE WITH ELECTRICAL ON SIZE/QUANITY OF MOTORISED DAMPERS. I.E. FIRE/SMOKE DAMPERS, FIRE DAMPERS, MOTORIZED DAMPERS, ETC.
- (30) THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WORK BETWEEN TRADES. BECOME FAMILIAR AND EXAMINE ALL DRAWINGS AND SPECIFICATIONS TO BECOME AWARE OF THE WORK REQUIRED AND RELATIONSHIP WITH OTHER TRADES. IF DISCREPANCIES BETWEEN DRAWINGS, AND SPECIFICATIONS OR OMMISIONS FROM THE DOCUMENTS ARE FOUND NOTIFY THE ENGINEER FOR RESOLUTION IMMEDIATELY PRIOR TO THE COMMENCEMENT OF WORK. NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR THE FAILURE TO REVIEW THE CONTRACT DOCUMENTS AND COORDINATE WITH OTHER TRADES.

	ELECTRIC WATER HEATER SCHEDULE EWH-													
PLAN CODE	CAP (GAL.)	INPUT (KW)	TEMP RISE (°F)	RECOVERY RATE (GPH)	DIA. (IN.)	DIMENSI HEIGH (IN.)		~		MANUFACI & MODEL			REMARKS	
<u>=WH-1</u>	6.0	5 <i>.</i> Ø	100	21	14" (WIDTH)	16.5	" 2Ø8/I	8	, D	A.O. SMI DURA-POWER		EL-6		
			ELECTR	ICAL	TEN	1P		MENSION	NS	OPER.				
PLAN CODE	RATED (GPM)	VOLTS	CURRE AMP		RIS (*†	Έ	WIDTH (IN.)	DEPTH (IN.)	HEIGHT (IN.)	WT. (LB.)		MANUFACTURER & MODEL NO. REMARKS		
<u>EWH-2</u>	1.Ø	2Ø8/1	33	8.Ø	5	5	6"	7"	16"	8		N.O. SMITH PVR-80E	I YEAR WARRANTY	

PLAN CODE	AREA SERVED	INDOOR / OUTDOOR UNIT
<u>MGU-1</u>	ELEVATOR	INDOOR AC
RCU-1	EQUIPMENT ROOM	ROOFTOP CONDENSER
		N PIPING TO BI

* UPSIZE REFRIGERATION LINE SETS IF PIPING LENGTH EXCEEDS 100' PROVIDE WITH LOW ABIENT KIT. PROVIDE MIRO CONDENSER PLATFORM OR EQUAL.

*

	DIFFUSER	S & GF	NLLE S	CHED	ULE		GRILLE CFM	
PLAN CODE	TYPE & DUTY	NECK SIZE	CEILING TYPE	N.C. LEVEL MAX	MAX. CFM	MANUFACTURER & MODEL NO.	REMARKS	
1	24" x 24" SQ. SUPPLY	8"Φ	See Plans	29	225	AIR DIFFUSION PRODUCTS DNR	ADAPTER AND OBD WHERE APPLICABLE	
2	24" x 24" SQ. SUPPLY	ΙØ"Φ	See Plans	30	355	AIR DIFFUSION PRODUCTS DNR	ADAPTER AND OBD WHERE APPLICABLE	
3	24" x 24" SQ. SUPPLY	12"Φ	See Plans	30	510	AIR DIFFUSION PRODUCTS DNR	ADAPTER AND OBD WHERE APPLICABLE	
4	24" x 24" SQ. SUPPLY	4"Φ	See Plans	3Ø	7 <i>0</i> 5	AIR DIFFUSION PRODUCTS DNR	ADAPTER AND OBD WHERE APPLICABLE	
Б	12" x 24" PERF. RETURN	1Ø" x 22"	See Plans	-	625	PRICE PDR SERIES	PROVIDE ROUND DUCT CONNECTION AND OBD WHERE APPLICABLE	
6	24" x 24" PERF. RETURN	22" × 22"	See Plans	-	135Ø	PRICE PDR SERIES	PROVIDE ROUND DUCT CONNECTION AND OBD WHERE APPLICABLE	
7	SLOT CEILING SUPPLY - 24"	8"Ф	See Plans	32	225	PRICE SDS SERIES	ALUMINUM CONSTRUCTION, (2) 1" SLOTS \times 24" LENGTH	
8	SLOT CEILING SUPPLY - 24"	Ι <i>Φ</i> "Φ	See Plans	32	275	PRICE SDS SERIES	ALUMINUM CONSTRUCTION, (2) 1" SLOTS \times 24" LENGTH	
- PROVI	- PROVIDE WITH OBD AND SQUARE TO ROUND ADAPTER WHERE APPLICABLE.							

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		PLUMBIN	NG FIXTU	RE CON	NECTIO	N SCHEDULE
			CONNEC	TION SIZE		
PLAN CODE	DESCRIPTION	COLD WATER	HOT WATER	WASTE	VENŤ	SPECIFICATIONS
<u>FCO-1</u>	FLOOR CLEANOUT	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 4100 SERIES
<u>F6-1</u>	FLOOR SINK	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 3140-12-Y W/ NICKEL/BRONZE TOP/ $\frac{1}{2}$ GRATE PROVIDE W/ PRO VENT T#5630-F-P TRAP GUARD. (# BEING THE SIZE OF DRAIN (PIPE SIZE))
<u>L-1</u>	LAVATORY	1/2"	1/2"	2"	1-1/2"	KOHLER: K-2882 VERTICYL UNDERMOUNT SINK FAUCET: LACAVA ZOOM EXII - CHROME PAIR FAUCET WITH MATCHING SOAP DISPENSER
<u>u-1</u>	URINAL	3/4"	N/A	2"	1-1/2"	KOHLER: STEWARD K-5244-ET FLUSH VALVE: ZURN-ZER6003AV-ULF-CCP (1.28GPF) ADA WHEN INSTALLED AT PROPER HEIGHT, SEE ARCH.
<u>WC-1</u>	WATER CLOSET (ADA ACCESSIBLE)	1"	N/A	4"	2"	TOILET: ZURN - Z5615-BWL-AM, WALL MOUNTED, ELONGATED W/ SEAT FLUSH VALVE: ZURN - ZERGØØØAV-HET-CPM DC POWERED (1.28 GPF)
<u>WC-2</u>	WATER CLOSET	1"	N/A	4"	2"	TOILET: ZURN - Z5615-BWL-AM, WALL MOUNTED, ELONGATED W/ SEAT FLUSH VALVE: ZURN - ZER6000AV-HET-CPM DC POWERED (1.28 GPF)
<u>WCO-1</u>	WALL CLEAN OUT	N/A	N/A	SEE PLANS	N/A	J. R. SMITH 4530
ĭB	ICE MAKER BOX	ا _{لا} 2	N/A	N/A	N/A	OATEY: ICE MAKER BOX WITH QUARTER TURN VALVE AND HAMMER ARRESTOR
<u>CY-1</u>	BACK-FLOW CHECK VALVE	SEE PLANS	N/A	N/A	N/A	WATTS: 9D-3 DISCHARGE WASTE / VENT INDIRECTLY TO NEAREST FIXTURE NO COPPER PIPING DOWNSTREAM OF DEVICE ASSE 1022 APPROVED DUAL CHECK WITH ATMOSPHERIC VENT
<u>BF6-1</u>	BOTTLE FILLING STATION	1/2"	N/A	1-1/2"	1-1/2"	ELKAY EMABFWS-RF. RETROFIT BOTTLE FILLING STATION. WALL MOUNTED WITH NEW TOP FOR EXISTING ELECTRIC WATER COOLER.
<u>6-1</u>	SINK S.S. (ADA COMPLIANT)	1/2"	1/2"	1-1/2"	1-1/2"	SINK: JUST MODEL SL-2131-A-GR, W/JB-99 DRAINS, FAUCET: JWF-201, PROVIDE W/STOPS, TRAP, AND SUPPLIES. PROVIDE WITH POWERS HYDROGUARD SERIES 491 MIXING VALVE.

* NOTE: FOR ALL ADA COMPLAINT SINKS / LAVS CONTRACTOR NEEDS TO PROVIDE / INSTALL TRAP GUARDS FOR ALL EXPOSED TRAPS AND SUPPLY LINES.

* NOTE: ALL PLUMBING SUPPLY LINE STOPS ARE TO BE INSTALL HORIZONTALLY THROUGH A VERTICAL WALL DIRECTLY BEHIND OR TO THE SIDE OF THE PLUMBING FIXTURE. INSTALLING STOPS VERTICALLY AT THE FLOOR LEVEL OR AT THE BOTTOM OF CABINETS IS NOT ALLOWED. NOTE: ALL PLUMBING FIXTURES ARE TO HAVE 1/4 TURN STOPS INSTALLED (NO EXCEPTIONS TAKEN). ALL PLUMBING FIXTURES THAT HAVE EXPOSED SUPPLY LINES I.E., WATER CLOSETS, WALL HUNG LAVS, ETC., CONTRACTOR IS TO PROVIDE / INSTALL STAINLESS STEEL BRAIDED HOSES. IF THE SUPPLY LINES ARE NOT EXPOSED (HIDDEN BELOW CASEWORK ETC.), THEY CAN BE PLASTIC, RIGID, OR STAINLESS STEEL BRAIDED.

			Ņ	/AV DI	EVICE WITH F	REHEAT	COIL	SCH	EDUL	E.						
		MAX.	WIDE	INLET	OUTLET	MAX.	DIMENSIONS						C	OIL		
PLAN CODE	MANUFACTURER & MODEL NO.	CFM *	OPEN S.P.	SIZE	SIZE W X H	N.C.@ 1.Ø" S.P.	L	ω	н	ROWS	GPM	CONN. SIZE	Apd (in.)	wPD (ft.)	MBH	COMMENTS
AR	METAL AIRE 506TH - 2	35Ø	Ø.29	6"Ф	12" × 8"	16	21 ³ 4"	12"	8"	2	2.Ø	³ ⁄4"	Ø.21	Ø.Ø9	13.2	PROVIDE COIL ACCESS DOOR
BR	METAL AIRE 508TH - 2	700	Ø.51	8"Ф	2" x Ø"	21	21 ³ ⁄4"	12"	10"	2	2.Ø	³ ⁄4"	Ø.41	Ø.61	26.4	PROVIDE COIL ACCESS DOOR
CR	METAL AIRE 510TH - 2	1100	Ø.65	1Ø"Φ	14" x 12 ¹ / ₂ "	21	21 ³ ⁄4"	14"	12 ¹ ⁄2"	2	2.Ø	1"	Ø.55	1.89	41.4	PROVIDE COIL ACCESS DOOR
DR	METAL AIRE 512TH - 2	1700	Ø.65	12"Φ	16" x 15"	22	21 ³ 4"	16"	15"	2	3.Ø	1"	Ø.54	2.85	64.Ø	PROVIDE COIL ACCESS DOOR
ER	METAL AIRE 514TH - 2	2400	Ø.66	14" Φ	2Ø" x 17½"	29	21 ³ ⁄4"	2Ø"	17½"	2	3.Ø	1"	Ø.54	4.56	9Ø.4	PROVIDE COIL ACCESS DOOR
FR	METAL AIRE 516TH - 2	3200	Ø.77	16"Φ	24" x 18"	28	21 ³ 4"	24"	18"	2	3.Ø	1"	Ø.64	1Ø.32	120.5	PROVIDE COIL ACCESS DOOR

MINIMUM CFM TO BE SET AT VALUE SHOWN ON PLAN NEXT TO BOX.

* PERFORMANCE BASED UPON ARI 885-98. * BASED ON EAT=55°F, LAT=90°F, EWT=180°F, LWT=160°F.

BOX SIZE HW GPM _____ MIN. CFM

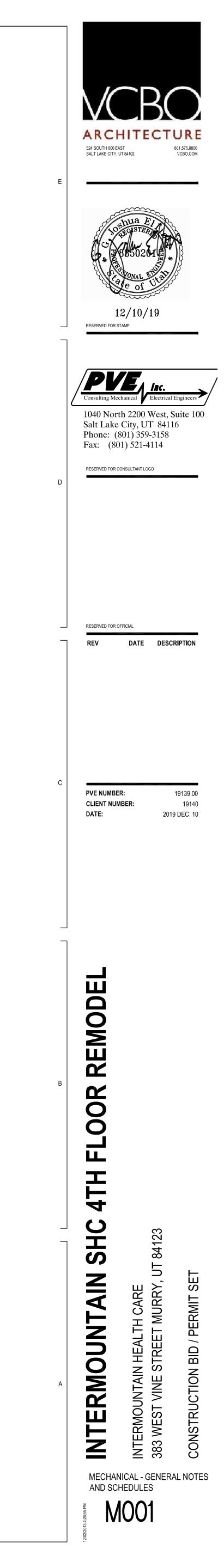
-BOX NO.

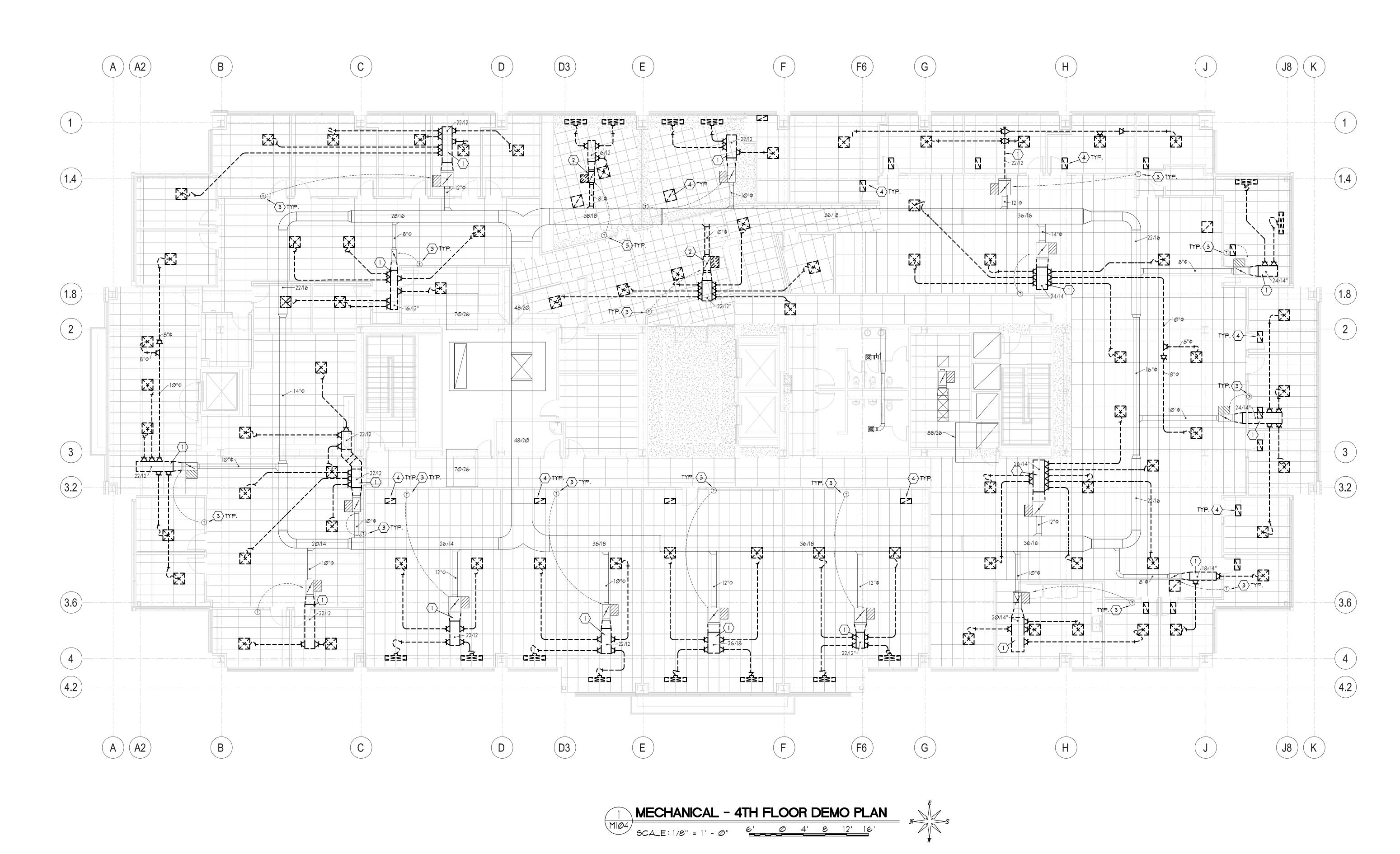
AIR CONDITIONING UNIT RCU- / MSU-

	COOLING CAPACITY (MBH)	HEATING	ELECTRICAL DATA				UNIT DIMENSIONS						
WEIGHT			MCA	MOP		MIN EER/ SEER				MANUFACTURER	REMARKS		
(LBS.)		(MBH)	INDOOR	INDOOR	VOLTAGE / PHASE		ω	D	Н	& MODEL NO.			
			OUTDOOR	OUTDOOR		OFFIC	(IN.)	(IN.) (IN.)					
48 LBS	22.0	at a	1.0 -		2087 / 1	8.18/17.5	4 6 .1'	11"	14"	LG LGN363HL∨	INSTALL WITH CONDENGATE PUMP, ROUTE CONDENGATE TO NEAREST DRAIN.		
218 LBS	33.Ø	35.2	19	3Ø	INDOOR UNIT POWERED FROM OUTDOOR UNIT	0.10/17.5	38"	15"	32"		PROVIDE WITH LOW AMBIENT WIND BAFFLE KIT		

* ALL REFRIGERATION PIPING TO BE INSTALLED WITH HARD DRAWN TYPE "L" COPPER TUBING * ALL SUCTION PIPING SHALL BE INSULATED WITH ARMAFLEX INSTUATION AND SEALED WITH ARMAFLEX GLUE. NO TAPE WILL BE ALLOWED

POWER FOR THE INDOOR AC UNIT ARE FED FROM THE OUTDOOR RCU UNIT.





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	GENERAL NOTES
	FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE WORK WITH ALL OTHER TRADES. COORDINATE ALL EXISTING STRUCTURAL CONDITIONS AND INSURE ROUTING OF NEW MECHANICAL SYSTEMS AVOID CONFLICTS WITH EXISTING CONDITIONS AND NEW CONSTRUCTION.
2.	CONTRACTOR TO MEASURE EXISTING AIR HANDLER AIR FLOWRATES AND AHU DIMENSIONS. BALANCE NEW AHU TO LISTED SCHEDULED RATINGS.
3	EXISTING AND NEW DUCT ROUTING TO BE IN THE

3. EXISTING AND NEW DUCT ROUTING TO BE IN THE CEILING SPACE ABOVE LAY-IN CEILING.

KEYNOTES

- 1 REMOVE EXISTING DIFFUSERS AND DUCTWORK ASSOCIATED WITH DIFFUSERS. REMOVAL ALL DUCTWORK BACK TO THE VAV BOX. VAV BOXES TO REMAIN AND BE RE-BALANCED BASED ON NEW FLOOR LAYOUT.
- 2 REMOVE EXISTING VAY BOX AND CAP DUCTWORK BACK TO MEDIUM PRESSURE LOOP.
- 3 REMOVE EXISTING THERMOSTAT FOR REPLACEMENT OF NEW THERMOSTAT. TYPICAL.
- (4) REMOVE EXISTING RETURN AIR GRILL AND SOUND BOOT FOR NEW CEILING LAYOUT. TYPICAL.

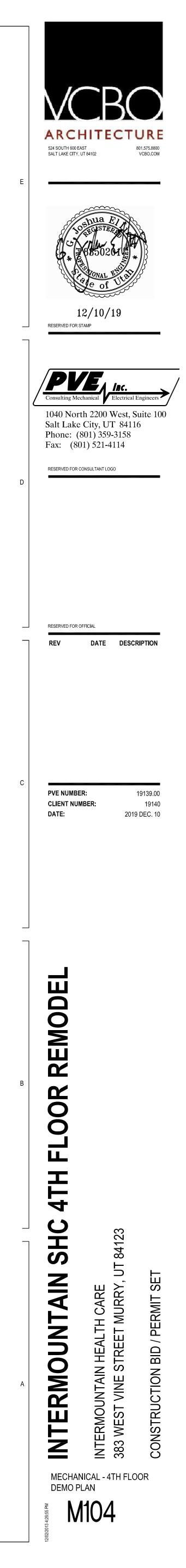


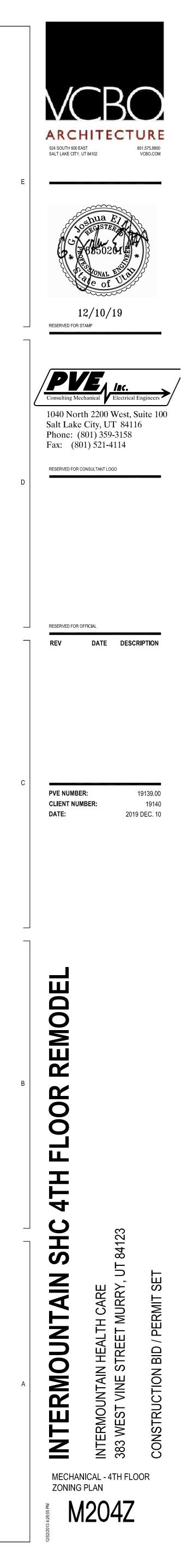


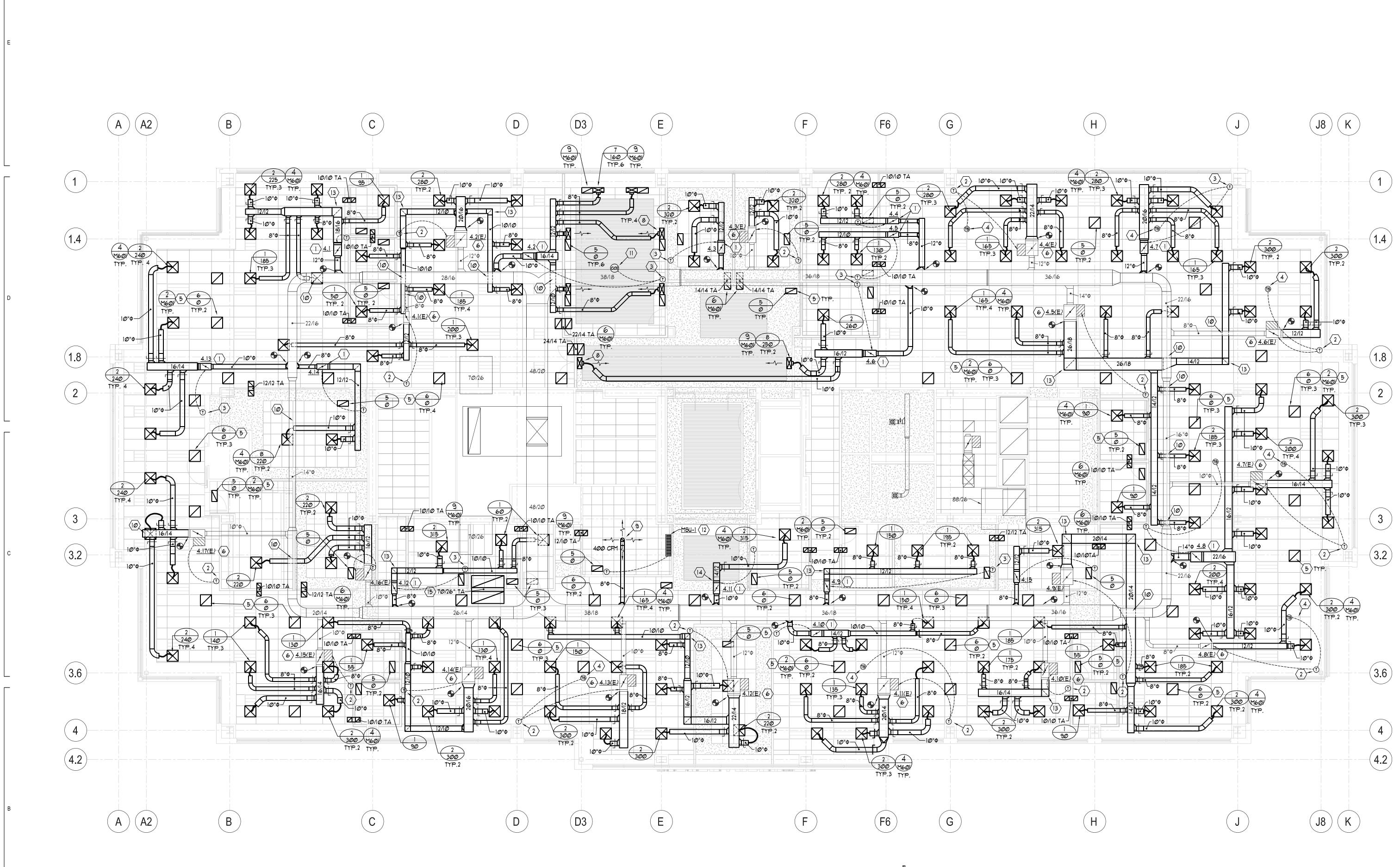
 Image: Mechanical - 4TH FLOOR ZONING PLAN

 M204Z

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

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MECHANICAL - 4TH FLOOR PLAN M204 SCALE: 1/8" = 1' - Ø" 6' 0 4' 8' 12' 16'

	NEW VAY BOXES	
4.1	4.2	4.3
DR 1330	CR 960	BR 640
3.0 360	2.0 290	2.0 130
4.4	4.5	4.6
BR 560	BR 260	CR 760
2.0 130	2.0 52	2.0 235
4.7	4.8	4.9
DR 1335	ER 1600	BR 540
3.0 380	3.0 540	2.0 135
4.10	4.11	4.12
CR 600	CR 315	BR 435
2.0 180	2.Ø 95	2.0 130
4.13	4.14	4.15
CR 960	BR 440	BR 315
2.0 300	2.0 110	2.0 95

GENERAL NOTES 1. FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE WORK WITH ALL OTHER TRADES. COORDINATE ALL EXISTING STRUCTURAL CONDITIONS AND INSURE ROUTING OF NEW MECHANICAL SYSTEMS AVOID CONFLICTS WITH EXISTING CONDITIONS AND NEW CONSTRUCTION.

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- 2. CONTRACTOR TO MEASURE EXISTING AIR HANDLER AIR FLOWRATES AND AHU DIMENSIONS. BALANCE AHU TO NEW AIRFLOW RATE REQUIREMENTS.
- 3. ALL EXPOSED DUCTWORK OR DUCTWORK ABOVE GYP. CEILINGS, GRILLS SHALL BE HARD DUCTED.
- 4. USE YOUND GEAR TYPE BALANCING REGULATORS ABOVE ALL GYP. BOARD CEILINGS.
- 5. ALL MEDIUM PRESSURE DUCTWORK SHALL BE HELD TIGHT TO THE BOTTOM OF STRUCTURE. OFFSET AND TRANSITION AS REQUIRED.
- 6. OFFSET AND TRANSITION ALL DUCTWORK AND PIPING AS REQUIRED.
- ALL VALVES SHALL BE LOCATED ABOVE ACCESSIBLE CEILINGS.
- PROVIDE ACCESS PANELS AS REQUIRED.
 CONTRACTOR TO COORDINATE ALL FINAL LOCATIONS OF T-STAT'S WITH OWNER AND
- ARCHITECT.
- REFLECTED CEILING GRID. 11. REFER TO ALL MG. - DETAIL SHEETS FOR INSTALLATION DETAILS. ALL DETAILS ARE NOT CALLED OUT AND DETAIL SHEETS SHOULD BE FOLLOWED FOR ALL INSTALLATION PURPOSES.
- 12. INSTALL NEW BUILDING MANAGEMENT SYSTEM (BMS). ALL EXISTING THERMOSTATS (T-STAT) ON LEVEL 4 OF THE BUILDING SHALL BE REPLACED AND CONNECTED TO NEW BMS SYSTEM.

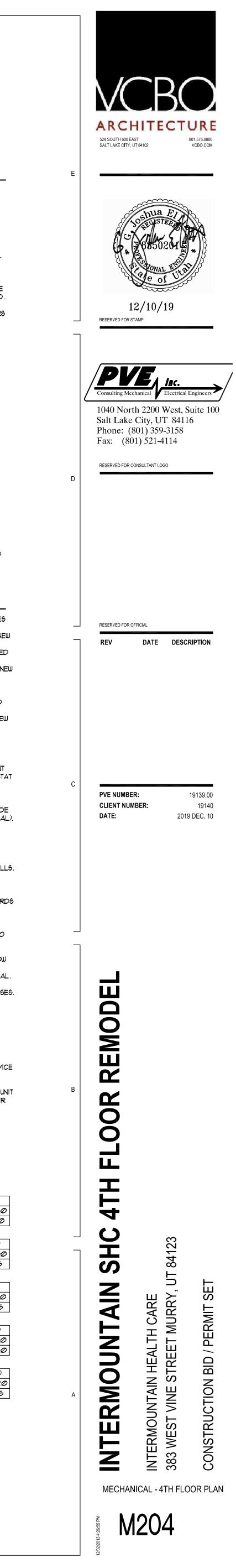
KEYNOTES

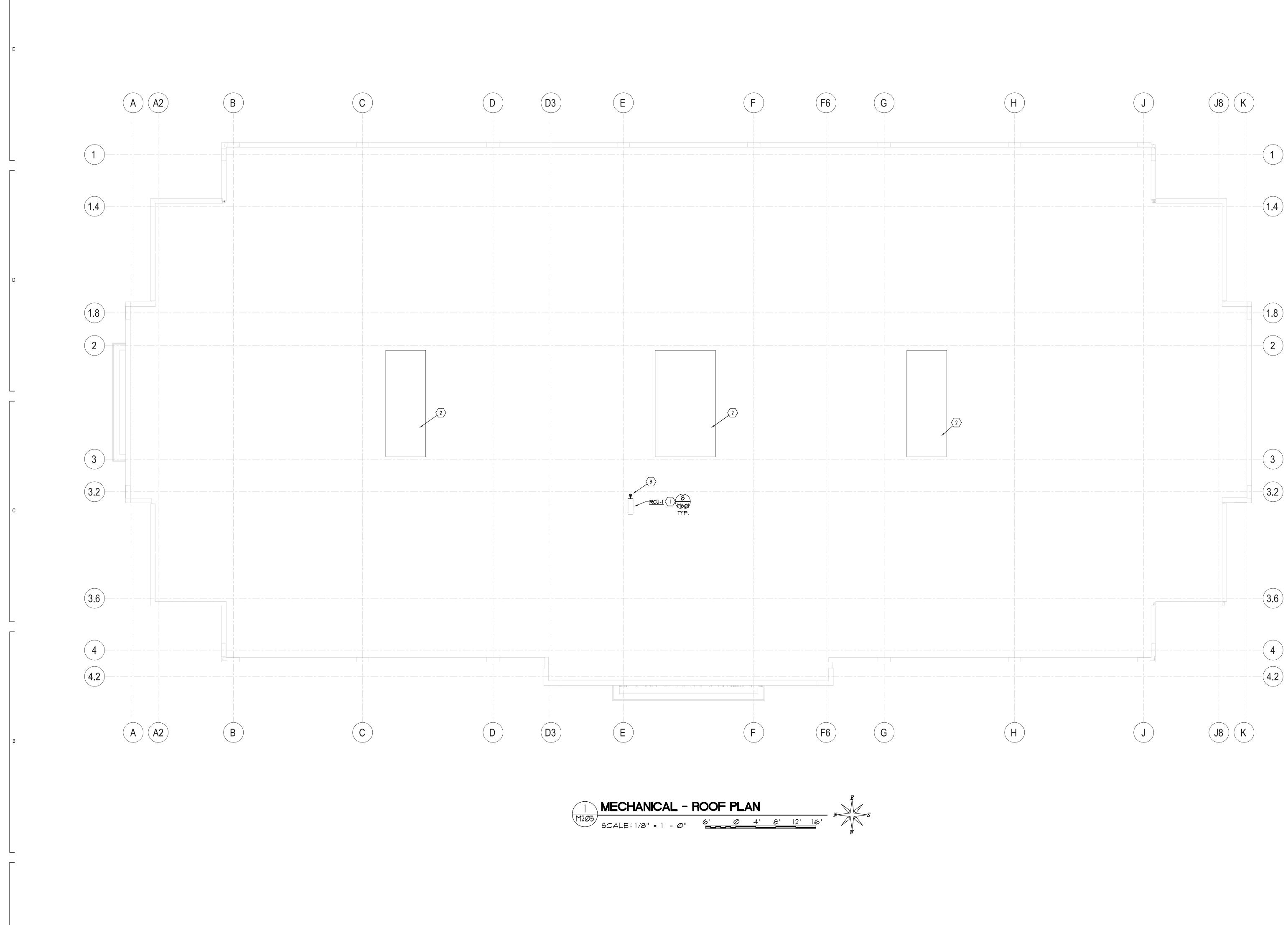
- 1 PROVIDE AND INSTALL NEW VAV RE-HEAT BOXES AS CALLED FOR. PROVIDE ACTUATED VALVE, CIRCUIT SETTERS, AND ISOLATION VALVES FOR NEW VAV BOXES. CONTRACTOR TO PROVIDE AND INSTALL ANY/ALL SEISMIC RESTRAINTS AS CALLED FOR PER CONTRACTOR'S PROFESSIONAL STRUCTURAL ENGINEER. PROVIDE AND INSTALL NEW HET'S ON MEDIUM PRESSURE DUCTWORK TO VAV BOXES.
- 2 REPLACE EXISTING T-STAT WITH NEW T-STAT AND PLACE AT LOCATION SHOWN. ALL T-STATS TO COMMUNICATE TO NEW BMS SYSTEM. PROVIDE NEW PLENUM RATED T-STAT WIRING. (TYPICAL).
- 3 PROVIDE AND INSTALL NEW T-STAT AND COMMUNICATE TO NEW BMS SYSTEM.
- 4 PROVIDE TEMPERATURE SENSOR (TS) AND MOUNT TO CEILING IN SHOWN LOCATION. WIRE TS TO T-STAT AND SO THAT TS READS TEMPERATURE OF THE SPACE.
- 5 PROVIDE SOUND BOOT (PAINT FLAT BLACK INSIDE DUCTWORK) ON ALL RETURN AIR GRILLS. (TYPICAL).
- 6 RE-BALANCE EXISTING VAV BOX TO NEW CFM'S CALLED FOR ON THE VAV SCHEDULE.
- (7) COORDINATE WITH ARCH'S AND ELECTRICAL'S LIGHTING LAYOUT FOR FINAL PLACEMENT OF GRILLS. PROVIDE ANY/ALL MODIFICATIONS. (TYPICAL).
- 8 INSURE THAT SLOT DIFFUSER VAINS ARE TURNED INWARDS TO DIRECT THE AIRFLOW INWARD TOWARDS THE SPACE.
- 9 PROVIDE AN 8" DUCT DROP TO IT ROOM FROM MEDIUM PRESSURE LOOP. BALANCE AIR FLOW TO 400 CFM.
- (10) ROUTE LOW PRESSURE SUPPLY DUCTWORK BELOW MEDIUM PRESSURE DUCTWORK, PROVIDE TRANSITIONS AND FITTINGS AS REQUIRED, TYPICAL.
- PROVIDE CO2 SENSOR FOR VENTILATION PURPOSES.

 INCREASE AIR FLOW TO SPACE IF CO2 LEVELS

 INCREASE PAST 600 PPM.
- (12) MOUNT MOU AT 7' A.F.F
- (13) PROVIDE TURNING VANES ON RECTANGULAR ELBOWS. TYPICAL.
- (14) PROVIDE ACCESS PANEL AS NEEDED FOR SERVICE OF UNIT.
- (15) TRANSFER AIR DUCTING FOR THE AIR HANDLING UNIT ON THE 4TH FLOOR. INSURE THAT THE RETURN AIR DUCTING TO THE AIR HANDLING UNIT MATCHES EXISTING AND IS UNRESTRICTED.

<u>Existing v</u>	AY BOXES - RE	-BALANCE
4.1(E)	4.2(E)	4.3(E)
(EX) 600	(EX) 133Ø	(EX) 640
2.0 180	3.Ø 555	2.0 130
4.4(E)	4.5(E)	4.6(E)
(EX) 1335	(EX) 2000	(EX) 600
3.Ø 45Ø	3.0 700	2.0 145
4.7(E)	4.8(E)	4.9(E)
(EX) 900	(EX) 600	(EX) 1300
3.0 180	2.0 145	3.0 315
4.10(E)	4.11(E)	4.12(E)
(EX) 950	(EX) 1305	(EX) 1400
2.0 180	3.0 300	3.0 450
4.13(E)	4.14(E)	4.15(E)
(EX) 900	(EX) 1395	(EX) 1020
2.0 215	3.0 410	2.0 225
4.16(E) (EX) 660 2.0 250	4.17(E) (EX) 960 2.0 300	





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GENERAL	NOTES

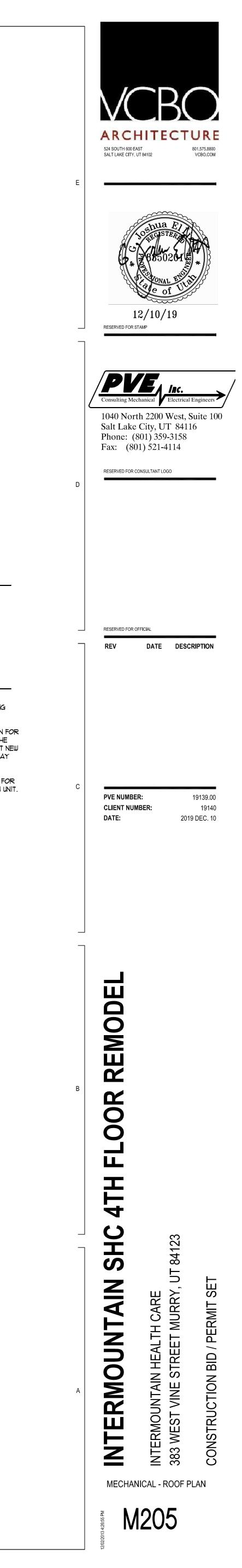
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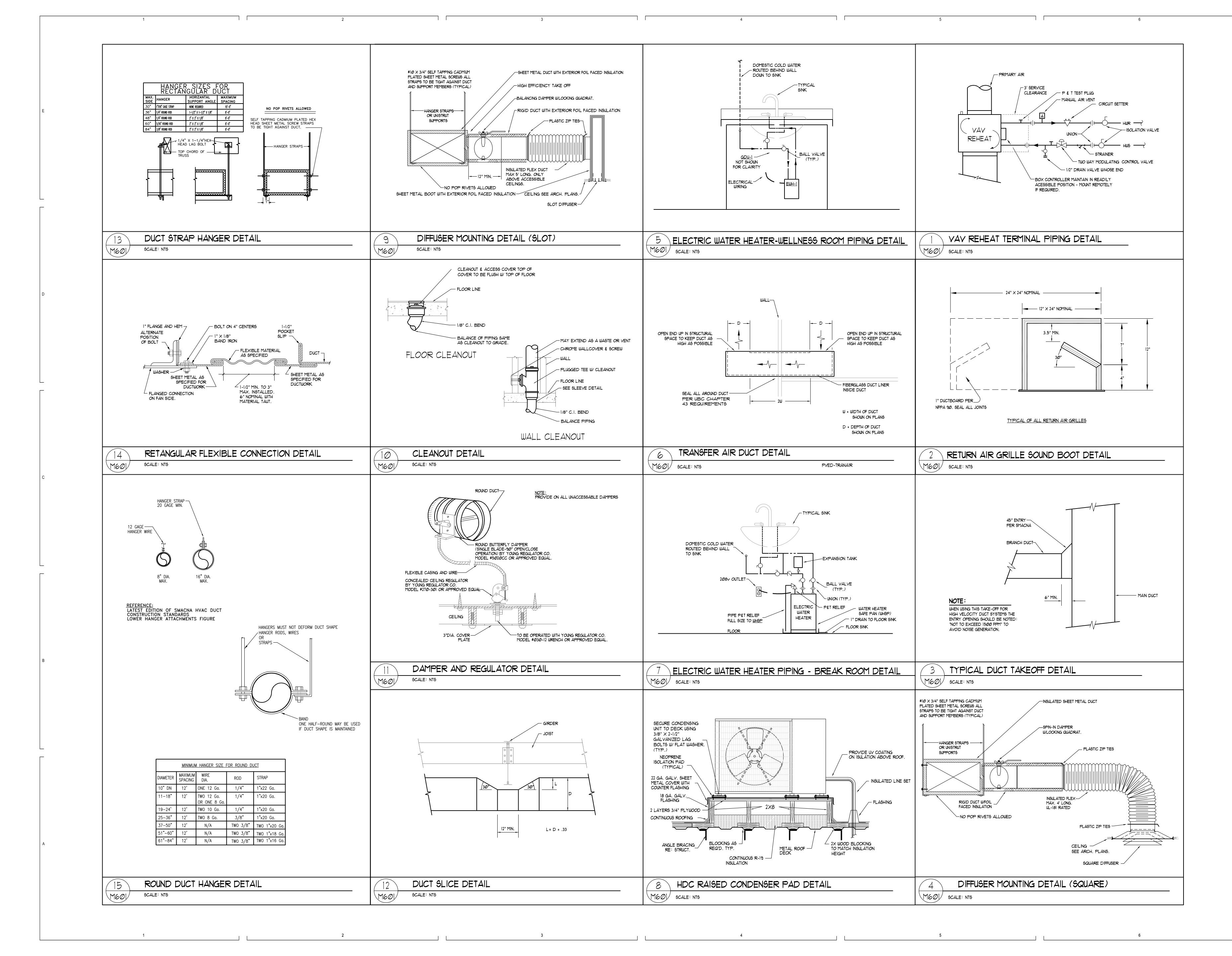
1.	EXISTING EQUIPMENT SHOWN ON ROOF FOR CONTRACTOR REFERENCE, CONTRACTOR IS REQUIRED TO FIELD VERIFY EQUIPMENT AND INSURE NEW EQUIPMENT ROUTING DOES NOT
	INTERFERE WITH EXISTING EQUIPMENT.

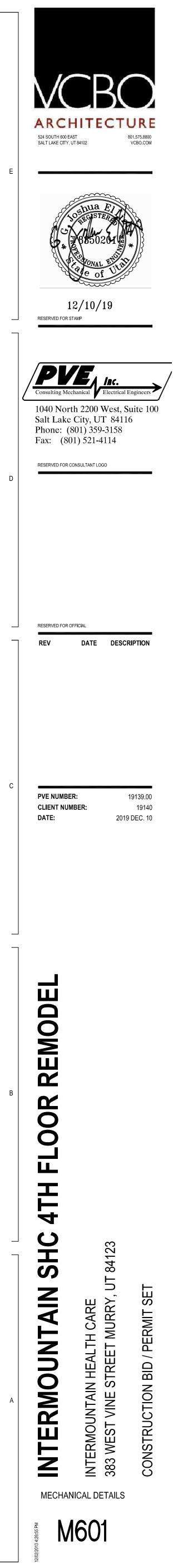
2. REFERENCE MECHANICAL FLOOR PLAN FOR CONTINUATION OF REFRIGERANT PIPING.

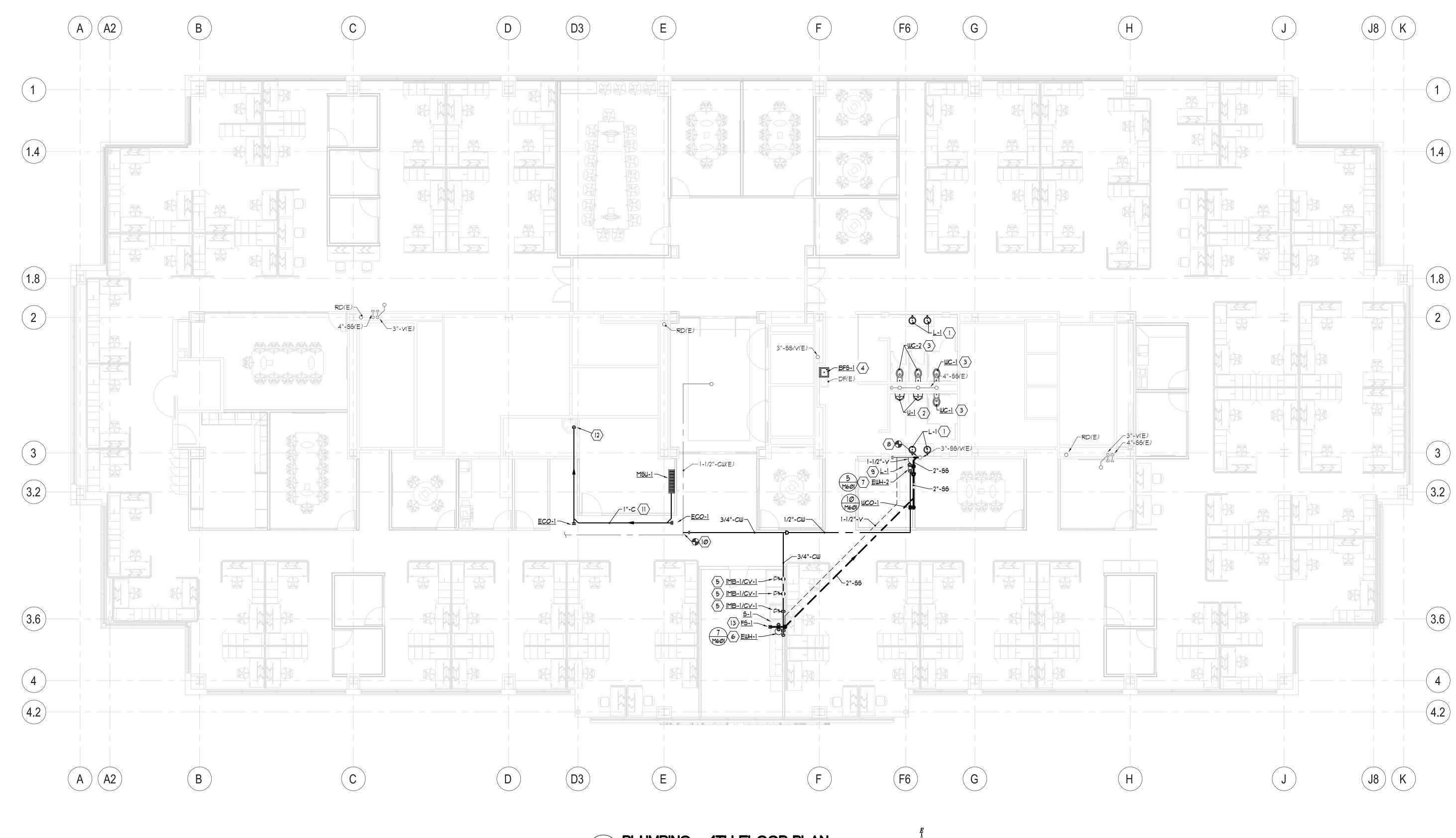
KEYNOTES

- (1) OUTDOOR UNIT FOR MGU-1 TO BE MOUNTED TO CONDENSER CURB. ROUTE REFRIGERANT PIPING NEXT TO THE SIDE OF THE CONDENSER CURB.
- 2 EXISTING MECHANICAL ROOF EQUIPMENT SHOWN FOR REFERENCE. CONTRACTOR TO FIELD VERIFY THE LOCATION OF THE EQUIPMENT AND INSURE THAT NEW CONDENSER UNIT IS PLACED A MIN OF 5 FT AWAY FROM EXISTING EQUIPMENT.
- 3 REFERENCE MECHANICAL FLOOR PLAN (M204) FOR CONTINUATION OF REFRIGERANT PIPING TO MGU UNIT.









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 PLUMBING - 4TH FLOOR PLAN

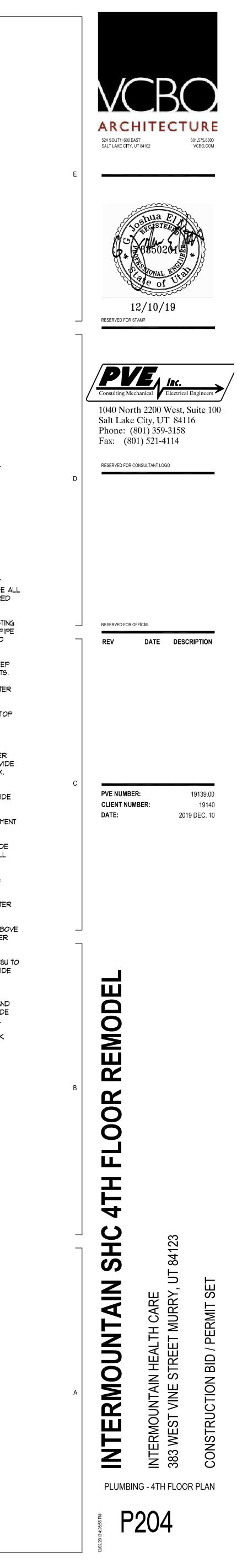
 P204
 SCALE: 1/8" = 1' - Ø"
 6'
 Ø
 4'
 8'
 12'
 16'

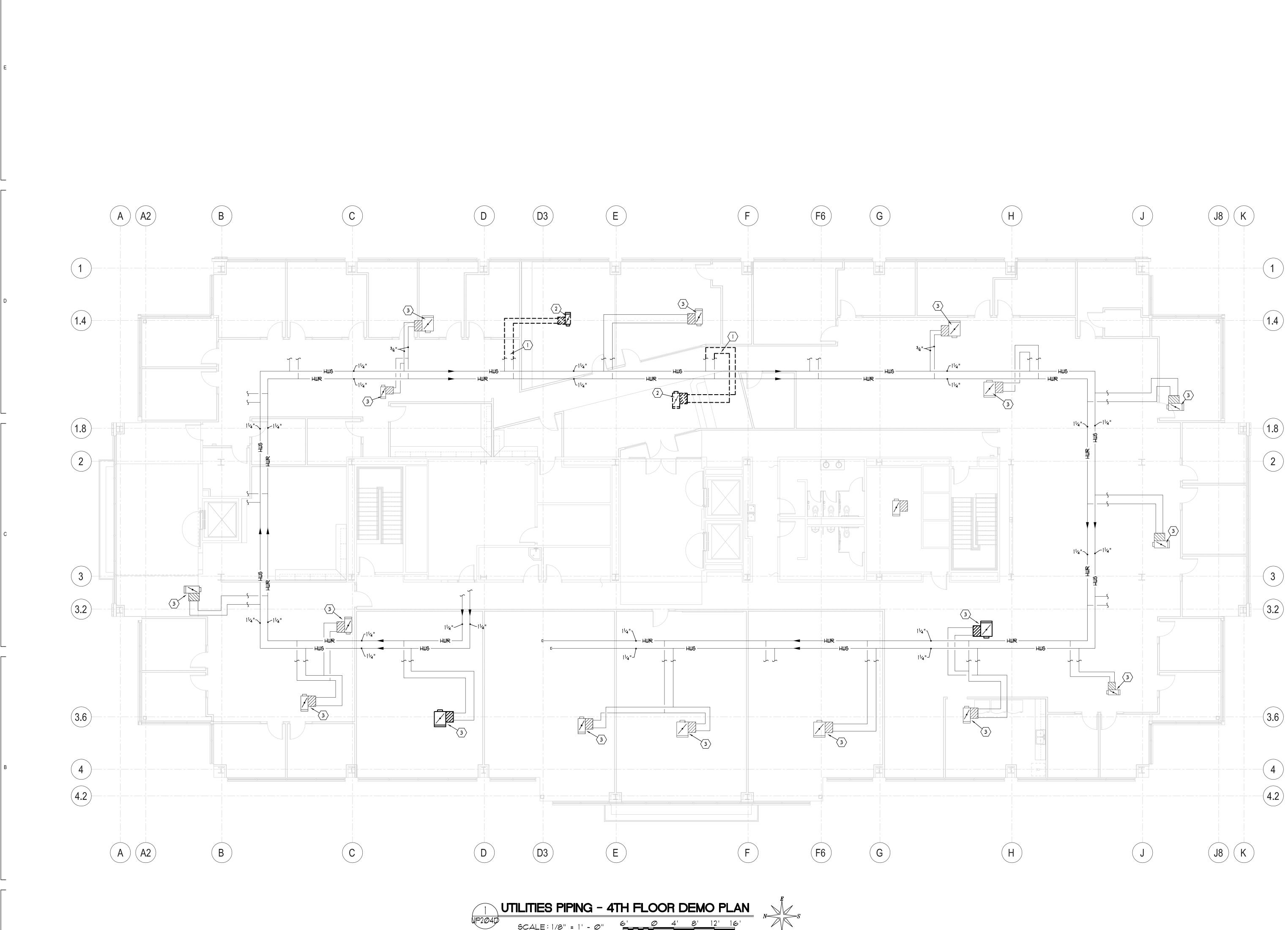
	IELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE WORK WITH ALL OTHER TRADES.
С	CORDINATE ALL EXISTING STRUCTURAL
P	LUMBING SYSTEMS AVOID CONFLICTS WITH XISTING CONDITIONS AND NEW CONSTRUCTION.

GENERAL NOTE

	KEYNOTES REMOVE AND PROVIDE NEW LAVATORY. PROVIDE A PIPE AND MOUNTING FITTINGS/TRANSITIONS REQUIRED TO REPLACE LAVATORY.
2	REMOVE AND PROVIDE NEW URINALS. KEEP EXISTIN WALL CARRIER TO MOUNT URINAL. PROVIDE ALL PIF AND MOUNTING FITTINGS/TRANSITIONS REQUIRED TO REPLACE URINALS.
3	REMOVE AND PROVIDE NEW WATER CLOSETS. KEEF EXISTING WALL CARRIER TO MOUNT WATER CLOSETS. PROVIDE ALL PIPE AND MOUNTING FITTINGS/TRANSITIONS REQUIRED TO REPLACE WATER CLOSETS.
4	REPLACE EXISTING ELECTRICAL WATER COOLER TO WITH NEW BOTTLE FILLING STATION. PROVIDE ALL NECESSARY COLD WATER PIPING AND TIE INTO EXISTING WATER LINES FOR NEW FILLING STATION.
5	PROVIDE 1/2" COLD WATER LINE TO THE ICE MAKER BOX, FOR REFRIGERATOR/COFFEE MACHINE. PROVID CHECK VALVE IN WALL PRIOR TO ICE MAKER BOX. TYP.
6	INGTALL WATER HEATER UNDERNEATH SINK. PROVIDE EXPANSION TANK AND INSTALL TANK ON COLD WATERSIDE OF WATER HEATER. PROVIDE 1/2" HOT WATER LINE TO SERVICE SINK. ENSURE ALL EQUIPME CLEARANCES ARE MEET.
$\langle 7 \rangle$	INSTALL WATER HEATER UNDERNEATH SINK.PROVIDE 1/2" HOT WATER LINE TO SERVICE SINK. ENSURE ALL EQUIPMENT CLEARANCES ARE MEET.
8	TIE NEW WASTE LINE AND VENT LINE INTO EXISTING WASTE AND VENT MAIN.
e	PROVIDE 1/2" COLD WATER LINE TO SINK. RUN WATER LINE BETWEEN WALL.
$\langle \mathcal{O} \rangle$	TIE INTO EXISTING DOMESTIC COLD WATER LINE ABO CEILING. PROVIDE SHUT OFF VALVE FOR NEW WATER LINE.
$\langle 11 \rangle$	ROUTE PUMPED CONDENSATE DRAIN LINE FROM MGU EXISTING JANITOR SINK IN JANITORS ROOM PROVIDE

- 11 ROUTE P dial ED CONDENSATE DRAIN LINE TROPING FOR EVERY 90° CHANGE. SLOW CONDENSATE DRAIN AT 1/8" / IFT.
 (12) CONDENSATE DRAIN LINE TO DROP DOWN WALL AND
- CONDENSATE DRAIN LINE TO DROP DOWN WALL AND DISCHARGE INTO EXISTING JANITORS SINK. PROVIDE AIR GAP BETWEEN CONDENSATE DRAIN AND SINK.
 ADD FLOOR SINK BELOW SINK. PLACE FLOOR SINK
- (13) ADD FLOOR SINK BELOW SINK. PLACE FLOOR SINK HALF WAY BETWEEN THE BREAK ROOM AND UNDERNEATH COUNTER.

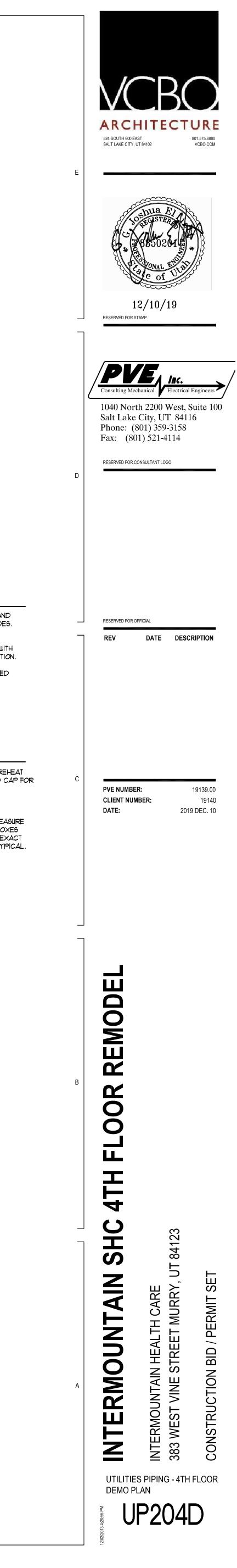


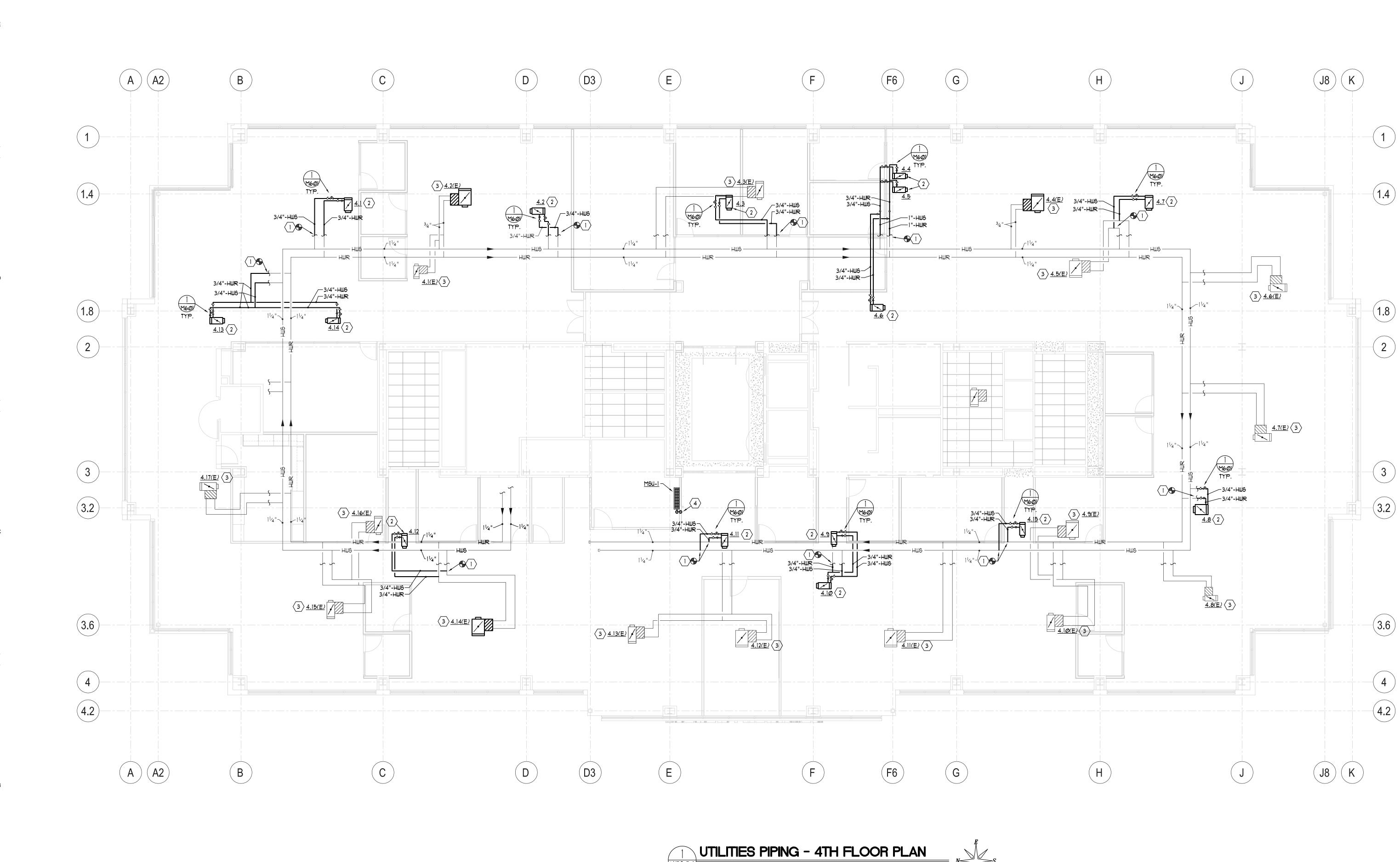


SCALE: 1/8" = 1' - Ø" 6' Ø 4' 8' 12' 16'

	GENERAL NOTES
1.	FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE WORK WITH ALL OTHER TRADES COORDINATE ALL EXISTING STRUCTURAL CONDITIONS AND INSURE ROUTING OF NEW MECHANICAL SYSTEMS AVOID CONFLICTS WIT EXISTING CONDITIONS AND NEW CONSTRUCTION
2.	BALANCE EXISTING VAV REHEATS TO LISTED SCHEDULED VALUES.
	KEYNOTES
	REMOVE EXISTING HOT WATER PIPING TO REA VAV BOX, PROVIDE SHUT OFF VALVE AND C NEW VAV BOX INSTALLATIONS.
$\langle 2 \rangle$	REMOVE EXISTING VAV BOX.
$\overline{3}$	VAV BOX TO REMAIN. CONTRACTOR TO MEAS

3 VAV BOX TO REMAIN. CONTRACTOR TO MEASURE EXISTING FLOW RATES AND REBALANCE BOXES AFTER NEW CONSTRUCTION. FIELD VERIFY EXACT LOCATION AND ROUTING OF HOT WATER. TYPICAL.





2

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(1)	UTILITIES	PIPING	- 4TH	I FL	OOF	r Pl	_AN		
UP204	SCALE: 1/8"	= 1' - Ø"	6'	Ø	4'	8'	12'	16'	

1.	FIELD VERIFY ALL EXISTING CONDITIONS AND COORDINATE WORK WITH ALL OTHER TRADES. COORDINATE ALL EXISTING STRUCTURAL CONDITIONS AND INSURE ROUTING OF NEW MECHANICAL SYSTEMS AVOID CONFLICTS WITH EXISTING CONDITIONS AND NEW CONSTRUCTION.

GENERAL NOTES

6

- BALANCE EXISTING VAY REHEATS TO LISTED SCHEDULED VALUES.
- 3. INSTALL NEW BUILDING MANAGEMENT SYSTEM (BMS). ALL EXISTING THERMOSTATS (T-STAT) ON LEVEL 4 OF THE BUILDING SHALL BE REPLACED AND CONNECTED TO NEW BMS SYSTEM.
- 4. FIELD VERIFY THAT EXISTING VAY HEATING HOT WATER CONTROL VALVES WILL BE COMPATIBLE WITH NEW BMS SYSTEM. CONTRACTOR TO REPLACE EXISTING CONTROLS IF EXISTING SYSTEM IS NOT COMPATIBLE BETWEEN EXISTING AND NEW SYSTEM AND NEW SYSTEM.

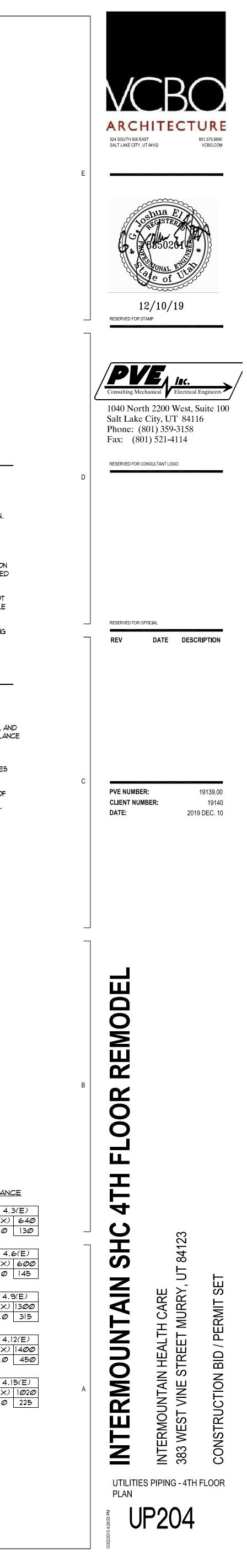
KEYNOTES

- TIE INTO EXISTING HOT WATER HEATING LINES. PROVIDE ALL TRANSITIONS AND FITTINGS REQUIRED.TYPICAL.
- 2 PROVIDE ACTUATED VALVE, CIRCUIT SETTERS, AND ISOLATION VALVES FOR NEW VAV BOXES. BALANCE BOXES TO FLOW RATES SHOWN ON SCHEDULE. TYPICAL.
- 3 BALANCE EXISTING VAV BOXES TO FLOW RATES SHOWN ON SCHEDULE.
- 4 ROUTE MOU REFRIGERATION PIPING UP TO ROOF LEVEL TO MOU CONDENSING UNIT. PROVIDE INSULATION AND SIZE PIPING AS REQUIRED BY MANUFACTURER.

	NEW VAY BOXES	
4.1	4.2	4.3
DR 1330	CR 960	BR 640
3.0 360	2.0 290	2.0 130
4.4	4.5	4.6
BR 560	BR 260	CR 760
2.0 130	2.0 52	2.0 235
4.7	4.8	4.9
DR 1335	ER 1600	BR 540
3.Ø 38Ø	3.0 540	2.0 135
4.10	4.11	4.12
CR 600	CR 315	BR 435
2.0 180	2.0 95	2.0 130
4.13	4.14	4.15
CR 960	BR 440	BR 315
2.0 300	2.0 110	2.Ø 95

5

EXISTING	VAV BOXES - RE-	-BALAN
4.1(E)	4.2(E)	4.
(EX) 600	(EX) 133Ø	(EX)
2.0 180	3.Ø 555	2.Ø
4.4(E)	4.5(E)	4.
(EX) 1335	(EX) 2000	(EX)
3.0 450	3.0 700	2.Ø
4.7(E)	4.8(E)	4.
(EX) 900	(EX) 600	(EX)
3.0 180	2.0 145	3.Ø
4.10(E)	4.11(E)	4.
(EX) 950	(EX) 13Ø5	(EX)
2.0 180	3.Ø 3ØØ	3.Ø
4.13(E)	4.14(E)	4.
(EX) 900	(EX) 1395	(EX)
2.0 215	3.Ø 41Ø	2.Ø
4.16(E) (EX) 660 2.0 250	4.17(E) (EX) 960 2.0 300	



	SYMBOLS LEGEND		SYMBOLS LEGEND
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	CE AND LINE SYMBOLS	WIRING DE	
(A5) E-501	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.	<u> </u>	RECEPTACLE, DUPLEX: NEMA 5-20R.
L-301		Ф <u>А</u>	RECEPTACLE, DUPLEX, ABOVE COUNTER: NEMA 5-20R.
A5	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING	₿c	RECEPTACLE, DUPLEX, CEILING: NEMA 5-20R.
E-201	SHEET WHERE ELEVATION OR SECTION IS SHOWN.	11	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, DRINKING FOUNTAIN: CONCEAL WATER COOLE
	ROOM IDENTIFIER WITH ROOM NAME AND NUMBER.		RECEPTACLE BEHIND WATER COOLER. SEE MECHANICAL/PLUMBING SHOP DRAWINGS FOR INSTALLATION
100	KEYNOTE INDICATOR.	Ш	REQUIREMENTS. RECEPTACLE, DUPLEX ON EMERGENCY POWER: NEMA 5-20R.
		.	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT
<u>_1</u>		<u> </u>	INTERRUPTER: NEMA 5-20R.
<u>X-X</u>	MECHANICAL EQUIPMENT INDICATOR. "X-X" INDICATES EQUIPMENT MARK SHOWN ON EQUIPMENT SCHEDULE. "XMDP"	₩	RECEPTACLE, QUADRAPLEX: NEMA 5-20R.
	IDENTIFIES PANEL EQUIPMENT IS CIRCUITED TO. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.	•	RECEPTACLE, QUADRAPLEX ON EMERGENCY POWER: NEMA 5-20R.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING	þ	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
\sim	BREAK, ROUND		FLUSH FLOOR BOX. "#" SHOWN ON DRAWINGS. REFER TO
MATCH LINE	MATCH LINE INDICATOR: CENTER, EXTRA WIDE LINE.	FB#	WIRING DEVICE SCHEDULE IN THE ELECTRICAL SPECIFICATIONS
SEE XX/X-XXX			FOR CONFIGURATION AND DEVICES.
	NEW LINE: MEDIUM LINE.	PT#	FLUSH FIRE RATED POKE THRU. "#" SHOWN ON DRAWINGS. REFER TO WIRING DEVICE SCHEDULE IN THE ELECTRICAL
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE		SPECIFICATIONS FOR CONFIGURATION AND DEVICES.
	EXISTING TO REMAIN LINE: THIN LINE.	Ф	SWITCH, DIMMER.
	DEMOLITION LINE: DASHED, MEDIUM LINE	× \$	SWITCH, SINGLE POLE ("x" INDICATES FIXTURES CONTROLLED
	PROPERTY LINE: DASHED, WIDE LINE.	X \$3	SWITCH, THREE-WAY ("x" INDICATES FIXTURES CONTROLLED).
	CONTRACT LIMIT LINE: DASHDOT, WIDE LINE.	\$P	SWITCH, PILOT LIGHT.
XXX	ELECTRICAL EQUIPMENT INDICATOR. "XXX" INDICATES TYPE OF EQUIPMENT OR EQUIPMENT ID. "EF-X" IDENTIFIES MECHANICAL	\$т	SWITCH, TIMER OPERATED.
EF-X	EQUIPMENT BEING SERVED. REFER TO EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.	₿.	RECEPTACLE, SINGLE PLEX, WITH USB OUTLET
WIRING ME	THODS	STRUCTU	RED CABLING
	WIRING.	√X	TELEPHONE, WALL MOUNTED ("X" INDICATES QUANTITY OF
	WIRING TURNED UP OR TOWARDS OBSERVER.	 ((••))	CABLES). DATA CONNECTION: WIRELESS ACCESS POINT
0			(WAP). REQUIRES (2) DATA DROPS PER DEVICE
	WIRING TURNED DOWN OR AWAY FROM OBSERVER.	∇W	TELEPHONE, WALL MOUNTED: WALL PHONE.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND	▼X	OUTLET, DATA COMMUNICATION ("X" INDICATES QUANTITY OF CABLES).
A-1,3,5	NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE	V	OUTLET, BUILDING STANDARD COMBINATION TELEPHONE/ DAT COMMUNICATION.
A-1,3,3	INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL SPECIFICATIONS.		TWO-WAY EMERGENCY COMMUNICATION DEVICE PER IBC,
			WALL MOUNTED IN RECESSED BOX. TELEPHONE TERMINAL BOARD, FIRE TREATED PLYWOOD
_	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS.		
	NUMBER NOTATIONS IDENTIFY PAREL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS,		LAN RACK, FLOOR STANDING.
A-1,3,5	EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN THE ELECTRICAL	D	DATA CABLE, CATEGORY 5 (ONE-LINE DIAGRAM).
	SPECIFICATIONS.	10V	VOICE CABLE, CATEGORY 3 (ONE-LINE DIAGRAM).
\sim	FLEXIBLE WIRING.	LIGHTING	CONTROL
	WIRING AND/OR RACEWAY: THIN LINE. WHERE "X" = :	*	OCCUPANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	CATV = CABLE TELEVISION NC = NURSE CALL	<u>*</u>	OCCUPANCY SENSOR, DUAL TECHNOLOGY, WALL.
— x —	CCTV =CLOSED CIRCUITP=POWERTELEVISIONRC=RIGID CONDUIT		
	FA=FIRE ALARMS=SOUNDFO=FIBER OPTICST=TELEPHONE	Optimized and the second se	OCCUPANCY SENSOR, DUAL TECHNOLOGY, DIRECTIONAL.
	I = INTERCOM TV = TELEVISION	R	OCCUPANCY SENSOR CONTROL RELAY.
	OTHERS AS NOTED IN OTHER SCHEDULES. RACEWAYS AND WIRING SHALL BE SIZED AS SHOWN AND/OR SPECIFIED.		VACANCY SENSOR, DUAL TECHNOLOGY, OMNI-DIRECTIONAL, CEILING.
	LOW VOLTAGE WIRING: DIVIDE, MEDIUM LINE.	*	VACANCY SENSOR, DUAL TECHNOLOGY, WALL.
+	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.	(P)	PHOTOCELL.
	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER		
<u>[1]</u>	TO ONE-LINE DIAGRAM.	SP	OCCUPANCY SENSOR, SWITCH PACK.
НС	ADA ACCESS PUSH PLATE	\$	SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, W
Ø	JUNCTION BOX.	\$ * \$	SWITCH/VACANCY SENSOR COMBO, DUAL TECHNOLOGY, WAL
0 _{SC}	JUNCTION BOX, SYSTEMS FURNITURE COMMUNICATION CONNECTION.	*	DIMMER SWITCH/OCCUPANCY SENSOR COMBO, DUAL TECHNOLOGY, WALL.
	EARTH GROUND (ONE-LINE DIAGRAM).	÷.	DIMMER SWITCH/VACANCY SENSOR
<u>+</u>			COMBO, DUAL TECHNOLOGY, WALL. LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCH: LETTER
Фс	JUNCTION BOX, CEILING.	a,b \$	"a,b" INDICATES ZONING WHERE SHOWN (REFER TO PLANS, SCHEDULES, AND DETAILS FOR EXACT BUTTON CONFIGURATION
	LADDER RACK.		AND PROGRAMMING REQUIREMENTS)
_IGHTING ((REFER TO FIXTURE SCHEDULE FOR SYMBOLS)	DC	DIGITAL LIGHTING DIMMING CONTROLLER
		20 LC	DIGITAL PLUG LOAD CONTROLLER
(W-3)	FIXTURE IDENTIFICATION: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.	RC	DIGITAL LIGHTING ROOM CONTROLLER
(W-3)			LIGHTING SPACE CONTROL TYPE. X INDICATES TYPE. SEE
			SCHEDULE / DIAGRAM.
(W-3) (W-3)	FIXTURE IDENTIFICATION, EMERGENCY WITH BATTERY PACK, CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES		
	CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES		
(W-3)	CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED.		
(W-3) EM	CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED. EMERGENCY. NIGHT LIGHT: DO NOT SWITCH.		
(W-3) EM NL ↑	CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED. EMERGENCY. NIGHT LIGHT: DO NOT SWITCH. EGRESS DIRECTION ARROW (EXIT SIGNS).		
(W-3) EM NL ↑ LV	CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED. EMERGENCY. NIGHT LIGHT: DO NOT SWITCH. EGRESS DIRECTION ARROW (EXIT SIGNS). LOW VOLTAGE LIGHTING TRANSFORMER.		
(W-3) EM NL ↑	CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED. EMERGENCY. NIGHT LIGHT: DO NOT SWITCH. EGRESS DIRECTION ARROW (EXIT SIGNS).		
(W-3) EM NL ↑ LV	CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED. EMERGENCY. NIGHT LIGHT: DO NOT SWITCH. EGRESS DIRECTION ARROW (EXIT SIGNS). LOW VOLTAGE LIGHTING TRANSFORMER.		
(W-3) (W-3) EM NL ↑ LV ©	CONNECTED TO GENERATOR AS INDICATED: (W-3) INDICATES FIXTURE TYPE AS SCHEDULED. EMERGENCY. NIGHT LIGHT: DO NOT SWITCH. EGRESS DIRECTION ARROW (EXIT SIGNS). LOW VOLTAGE LIGHTING TRANSFORMER. EXIT SIGN: SINGLE FACE; CEILING MOUNTED		

1

	4
	SYMBOLS LEGEND
SYMBOL	
	AL POWER AND DISTRIBUTION
VFC VFD	DIAGRAM).
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
X h	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	STARTER OR MOTOR CONTROLLER.
•	PUSHBUTTON.
:	PUSHBUTTONS, MOTOR CONTROL.
	PANELBOARD CABINET, FLUSH MOUNTED.
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.
77777	PANELBOARD CABINET, SURFACE MOUNTED, 2 SECTION.
 DP#	DISTRIBUTION PANEL OR SWITCHBOARD.
FIRE ALARI	M
FCP	FIRE ALARM CONTROL PANEL, SEMI-RECESSED.
FPS	FIRE ALARM NOTIFICATION POWER SUPPLY.
FTR	FIRE ALARM TRANSPONDER OR TRANSMITTER.
С	AUTOMATIC DOOR CLOSERS: DOOR CLOSERS SHALL BE FURNISHED WITH DOOR HARDWARE AND CONNECTED TO BY FIRE ALARM INSTALLERS.
СМ	CONTROL MODULE.
мм	MONITOR MODULE.
Р	FIRE ALARM MANUAL PULL STATION.
R	SHUT DOWN RELAY: INSTALL RELAY IN CONTROL CIRCUIT OF EQUIPMENT TO BE CONTROLLED IN THE EVENT OF A FIRE.
5	MAGNETIC DOOR HOLDER.
2	DETECTOR, SMOKE.
A S	DETECTOR, SMOKE WITH AUXILIARY CONTACT.
	DETECTOR, SMOKE, DUCT WITH HOUSING AND SAMPLING TUBE.
\square	DETECTOR, HEAT.
\sim	INDICATOR LAMP.
75	STROBE. SUBSCRIPT INDICATES CANDELA RATING.
E	SPEAKER, EVACUATION.
 ∑⊑	SPEAKER, EVACUATION, COMBINATION STROBE.
	DETECTOR, FLOW SWITCH: FLOW SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
XO	DETECTOR, TAMPER SWITCH WITH VALVE: TAMPER SWITCHES SHALL BE PROVIDED AND INSTALLED WITH FIRE SPRINKLER SYSTEM AND SHALL BE CONNECTED TO LOCATIONS SHOWN ON THE FIRE SPRINKLER SHOP DRAWINGS.
_ _{SD}	SMOKE DAMPER.
	FIRE AND SMOKE DAMPER.
▶⊗≪ 75	ALARM, HORN/STROBE, ONE ASSEMBLY, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
▶○ 75	ALARM, HORN, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.
8 75	ALARM, STROBE, CEILING MOUNTED. SUBSCRIPT INDICATES CANDELA RATING.

	NOTE: ALL ABBREVIAT	TIONS MAY	YNOT BE USED.
	SINGLE POLE	kV	
,	SINGLE-PHASE ONE-WAY	kVA	
	ONE-WAY TWO-CONDUCTOR	kVAR kW	KILOVOLT AMPERE REACTIVE
,	TWO-WAY	kWh	KILOWATT HOUR
	THREE-CONDUCTOR	LED	LIGHT EMITTING DIODE
,	THREE-WAY	LFMC	LIQUID TIGHT FLEXIBLE META
	QUADRUPLE RECEPTACLE	_	CONDUIT
	OUTLET	LFNC	LIQUID TIGHT FLEXIBLE
	FOUR-POLE DOUBLE THROW		NONMETALLIC CONDUIT
	FOUR-POLE SINGLE THROW		LOW PRESSURE SODIUM
	FOUR-WIRE	LRA LTG	LOCKED ROTOR AMPS
,			LOW VOLTAGE
	ABOVE COUNTER ARMORED CABLE		MASTER ANTENNA TELEVISIO
	ARMORED CABLE AMERICANS WITH DISABILITIES		SYSTEM
	ACT	MAX	MAXIMUM
	ADJACENT	MC	METAL CLAD
	ABOVE FINISHED FLOOR	MCA	MINIMUM CIRCUIT AMPS
	ABOVE FINISHED GRADE	MCB	MAIN CIRCUIT BREAKER
	AMPERE INTERRUPTING	MCC	MOTOR CONTROL CENTER
	CAPACITY ALUMINUM	MCP MDP	MOTOR CIRCUIT PROTECTION MAIN DISTRIBUTION PANEL
	ALUMINUM	MDP	MAIN DISTRIBUTION PANEL MOTOR GENERATOR
	ANNUNCIATOR	MG	MANHOLE
	ACCESS POINT (WIRELESS	MIN	MINIMUM
	DATA)	MLO	MAIN LUGS ONLY
	AS REQUIRED	MOCP	MAXIMUM OVERCURRENT
	AMPS SHORT CIRCUIT		PROTECTION
	AUTOMATIC TRANSFER SWITCH	NA	
	AUDIO VISUAL	NC	NORMALLY CLOSED
	AMERICAN WIRE GAGE	NEC NEMA	NATIONAL ELECTRICAL CODE NATIOANL ELECTRICAL
	BUCK-BOOST TRANSFORMER		MANUFACTURERS
2			ASSOCIATION
	CEILING MOUNTED	NFC	NATIONAL FIRE CODE
		NFPA	NATIONAL FIRE PROTECTION
	TELEVISION CIRCUIT BREAKER	NIC	ASSOCIATION
	CIRCUIT BREAKER CUSTOM COLOR AS SELECTED	NIC NL	NOT IN CONTRACT NIGHT LIGHT
	BY ARCHITECT	NO	NORMALLY OPEN
	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
	CONTRACTOR FURNISHED/	OC	ON CENTER
	CONTRACTOR INSTALLED	OCP	OVER CURRENT PROTECTION
	CONTRACTOR FURNISHED/ OWNER INSTALLED	OF/CI	OWNER FURNISHED/
	CUSTOM FINISH AS SELECTED		CONTRACTOR INSTALLED
	BY ARCHITECT	OF/OI	OWNER FURNISHED/ OWNER INSTALLED
	CIRCUIT	OFP	OBTAIN FROM PLANS
	CONSTRUCTION MANAGER	OFF	OVERHEAD (COILING) DOOR
	CONDUIT	OL	OVERLOAD
	CONVENIENCE OUTLET	PB	PUSHBUTTON
	CONTRACTING OFFICER'S	PF	POWER FACTOR
	REPRESENTATIVE CONTROL PANEL	PH	PHASE
	CURRENT TRANSFORMER	PNL	PANEL
	CABLE TELEVISION	PT	POTENTIAL TRANSFORMER
	COPPER	PTZ	PAN/TILT/ZOOM
	UNIT OF SOUND LEVEL	QTY R	QUANTITY REMOVE
	DOUBLE POLE, DOUBLE	RCP	REFLECTED CEILING PLAN
	THROW	RMC	RIGID METAL CONDUIT
	DISCONNECT SWITCH	RNC	RIGID NONMETAL CONDUIT
	EACH	RPM	REVOLUTIONS PER MINUTE
	EMERGENCY ELECTRICAL METALLIC TUBING	RR	REMOVE AND RELOCATE
	ELECTRICAL METALLIC TUBING	S/S	START/STOP
	TUBING	SCA	SHORT CIRCUIT AMPS
	EMERGENCY POWER OFF	SCBA	STANDARD COLOR AS
D	EQUIPMENT	SF	SELECTED BY ARCHITECT SQUARE FOOT (FEET)
	EXISTING	SF SFBA	SQUARE FOOT (FEET) STANDARD FINISH AS
	FURNITURE MOUNTED		SELECTED BY ARCHITECT
	FIRE ALARM	SPD	SURGE PROTECTIVE DEVICE
	FIRE ALARM CONTROL PANEL FULL LOAD AMPS	SPDT	SINGLE POLE, DOUBLE THROW
	FLEXIBLE METAL CONDUIT	SPEC	SPECIFICATION
	FREIGHT ON BOARD	SPST	SINGLE POLE, SINGLE THROW
	FULL VOLTAGE	ST	SINGLE THROW
	NON-REVERSING	SWBD	SWITCHEGAR
	FULL VOLTAGE REVERSING	SWGR	SWITCHGEAR TWIST LOCK
	GROUND	I TP	TELEPHONE POLE
		TP TP	TWISTED PAIR
		TTB	TELEPHONE TERMINAL BOARI
	GROUND FAULT PROTECTION HEAVY DUTY	TV	TELEVISION
	HEAVY DUTY HIGH INTENSITY DISCHARGE	TVSS	TRANSIENT VOLTAGE SURGE
	HAND-OFF-AUTOMATIC		SUPPRESSER
	HORSE POWER	TYP	
	HIGH POWER FACTOR		UNDERFLOOR
	HIGH PRESSURE SODIUM		
	HIGH VOLTAGE	UPS	UNINTERRUPTIBLE POWER SUPPLY
	HERTZ	V	VOLTS
	INPUT/ OUTPUT	VA	VOLT AMPERE
	ISOLATED GROUND	VFC/VF	VARIABLE FREQUENCY MOTO
		D	CONTROLLER
		W/	WITH
	INSULATED/ ISOLATED	W/O	WITHOUT
C	INFRARED JUNCTION BOX	WP XFMR	WEATHERPROOF TRANSFORMER

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ELECTRICAL SHEET INDEX FE001 SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES

EE001	SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES
EE501	ELECTRICAL DETAILS
EE701	TYPICAL MOUNTING HEIGHT DETAILS
ED104	LEVEL 04 - ELECTRICAL DEMOLITION PLAN
ED114	LEVEL 04 -CEILING DEMOLITION PLAN
EP104	LEVEL 04 - POWER PLAN
EP602	EQUIPMENT SCHEDULE
EL104	LEVEL 04 - LIGHTING PLAN
EL601	INTERIOR LIGHTING FIXTURE SCHEDULE
EL602	LIGHTING CONTROL SCHEDULES
ET001	TELECOM SCHEDULES AND NOTES
ET104	LEVEL 04 - TELECOM PLAN
ET401	ENLARGED TELECOM PLANS
ET501	TELECOM EQUIPMENT RACK ELEVATIONS
ET502	TELECOM DETAILS
ET503	TELECOM DETAILS
ET504	TELECOM DETAILS
ET505	TELECOM EQUIPMENT RACK GROUNDING DETAIL
ET601	TELECOM RISER DIAGRAMS
EY001	SECURITY COVER SHEET
EY104	LEVEL 04 - AUXILIARY PLAN
EY601	AUXILIARY RISER DIAGRAMS
EJ104	LEVEL 04 - AUDIO VISUAL ROUGH-IN PLAN
EJ601	AUDIO VISUAL ROUGH-IN DETAILS AND DIAGRAMS
TA001	SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES
TA601	AUDIO VISUAL SYSTEMS DETAILS AND DIAGRAMS
TM001	SOUND MASKING DETAILS, DIAGRAMS, NOTES, AND SCHEDULE

GENERAL ELECTRICAL NOTES

6

- CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCONTINUED PRODUCTS, CATALOG NUMBER DISCREPANCIES, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT. WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.
- OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.

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- A. THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
- B. THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES. AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
- C. THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.
- EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
- SUBMITTALS: PROVIDE ORIGINAL ELECTRONIC PDF FORMAT, BOUND, BOOKMARKED (EACH SECTION AND PRODUCT), AND HIGHLIGHTED. JOB NAME AND SUBCONTRACTOR SHALL BE ON THE FRONT COVER. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
- REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.
- ALL WORK SHALL BE DONE ACCORDING TO THE CURRENT NATIONAL ELECTRIC 6. CODE (NEC), IBC, NFPA, AND IFC. COMPLIANCE AND FINAL APPROVAL IS SUBJECT TO THE ON SITE FIELD INSPECTION OF THE AHJ.

DEFINITIONS NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES. APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

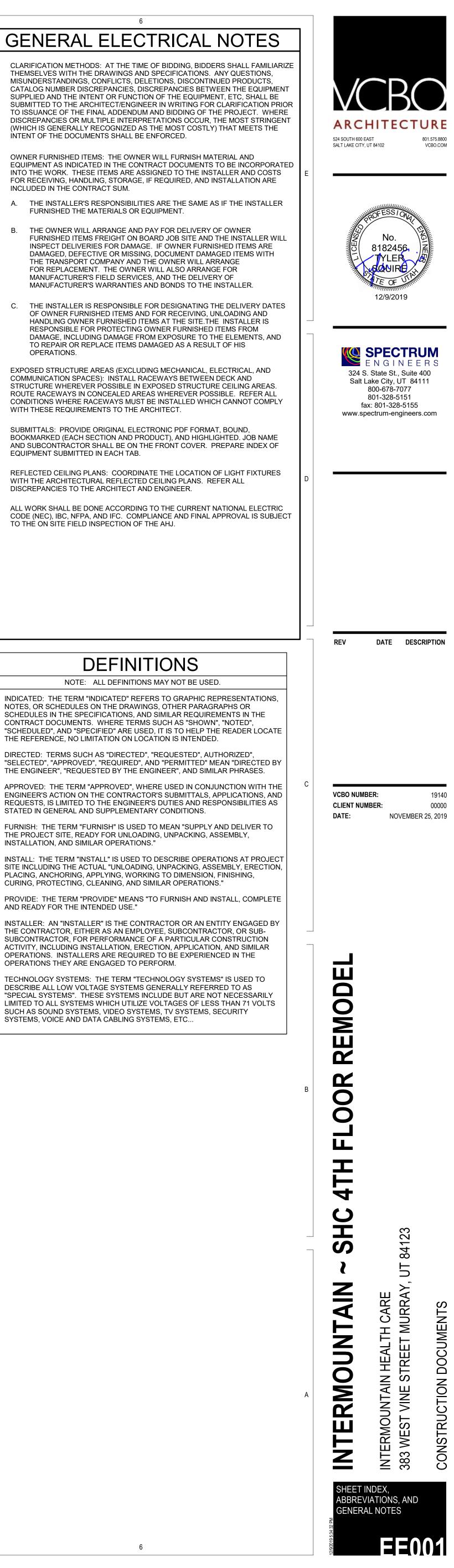
FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS." PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE

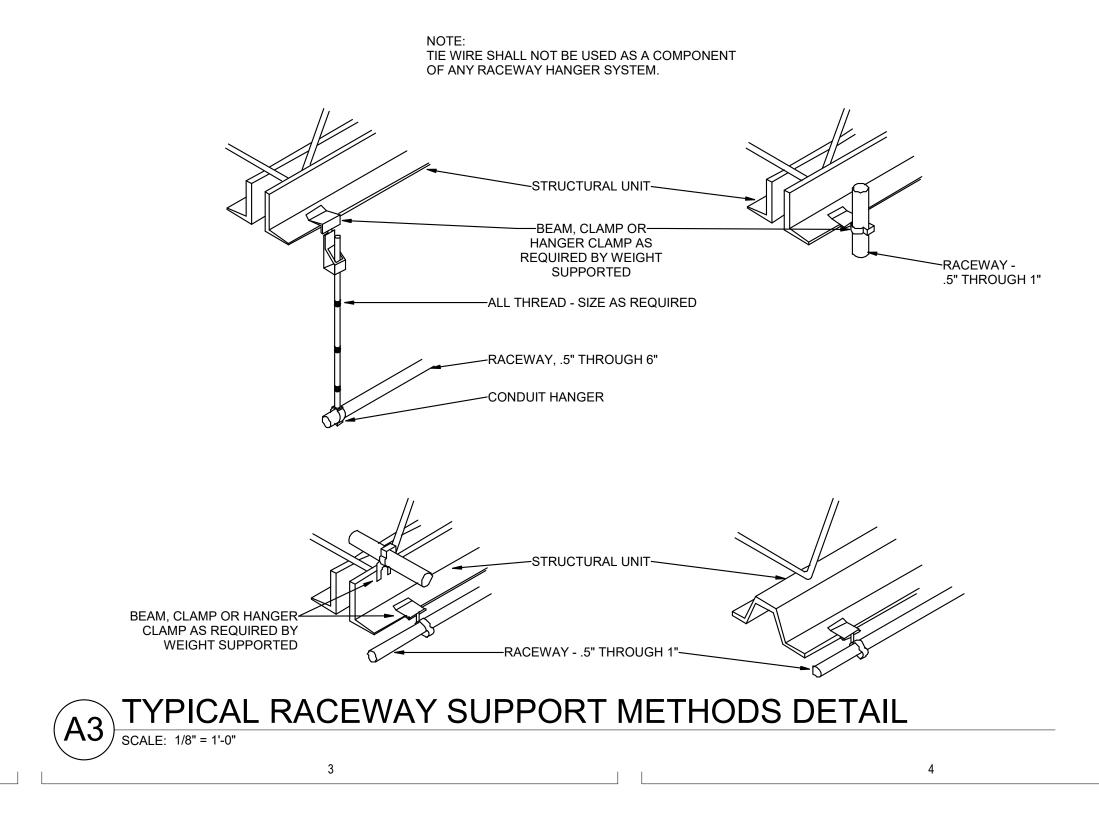
INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

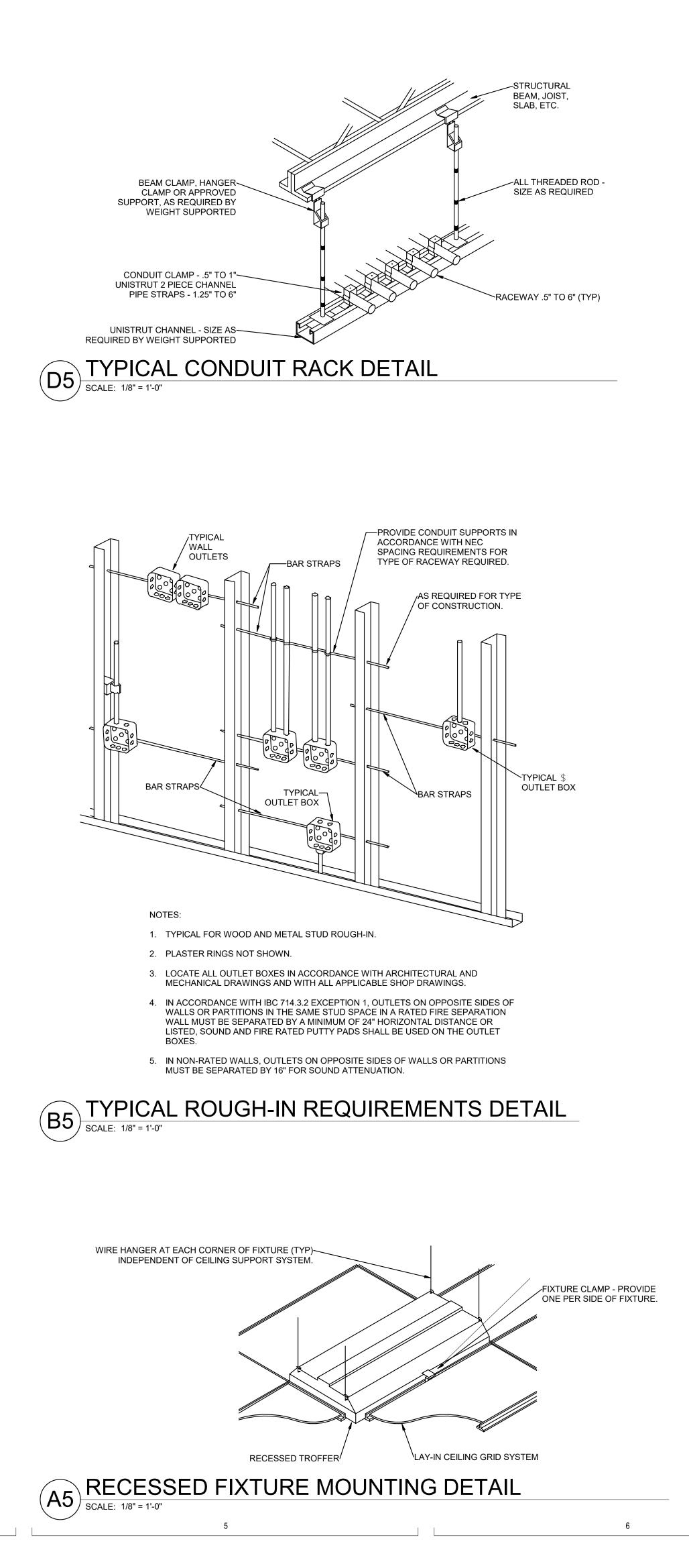
AND READY FOR THE INTENDED USE."

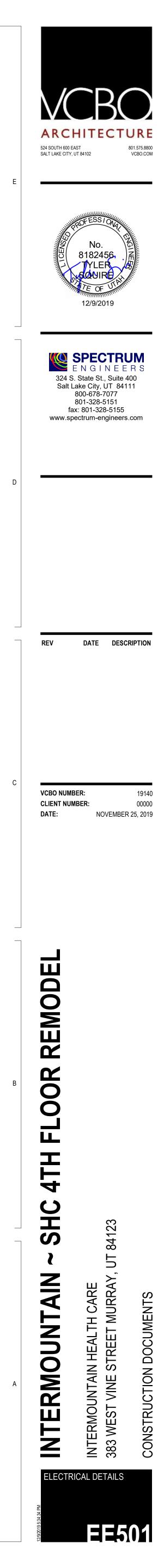
TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

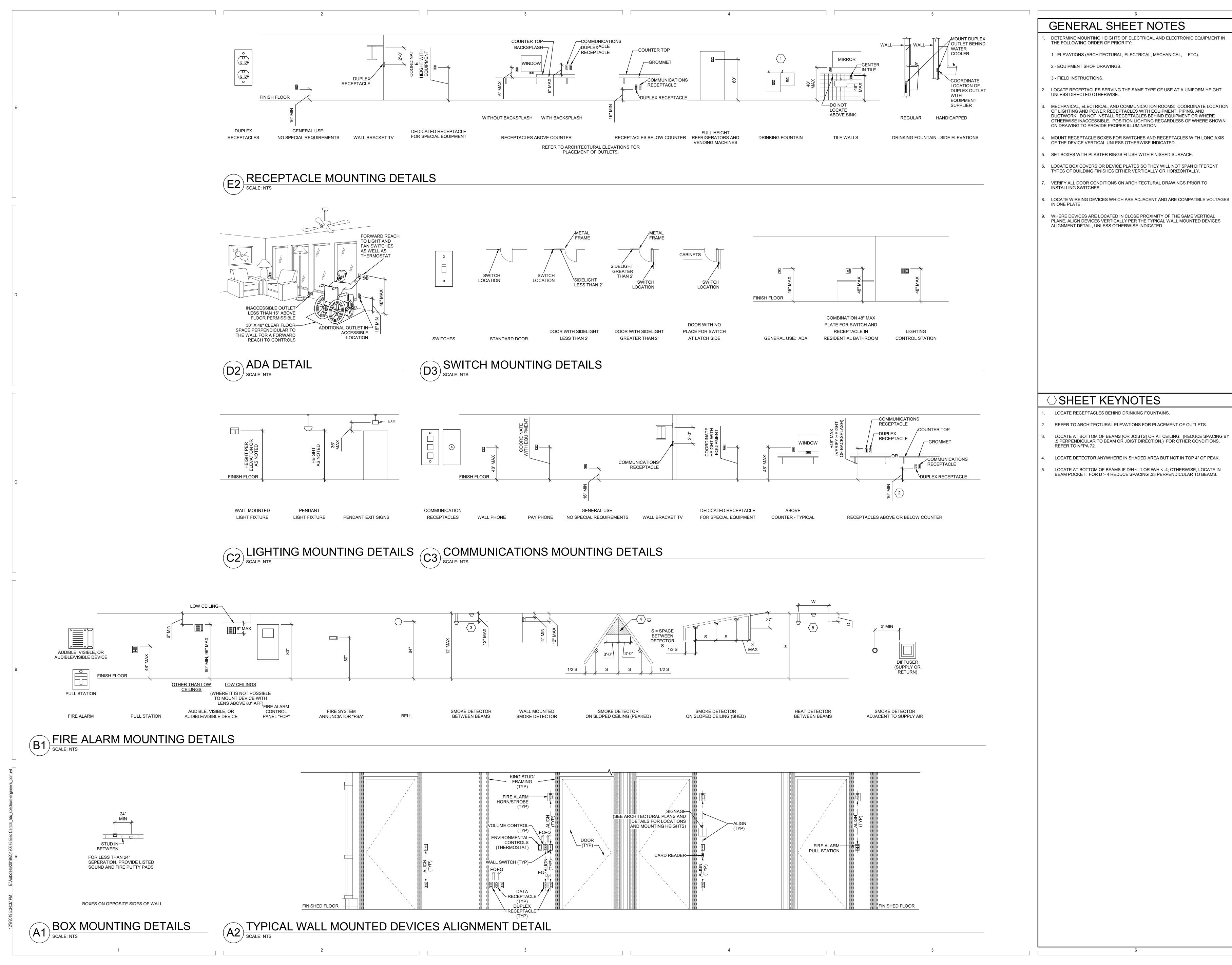


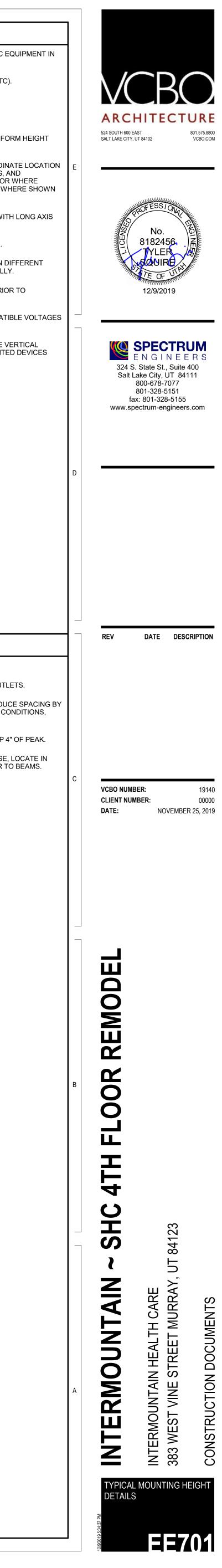
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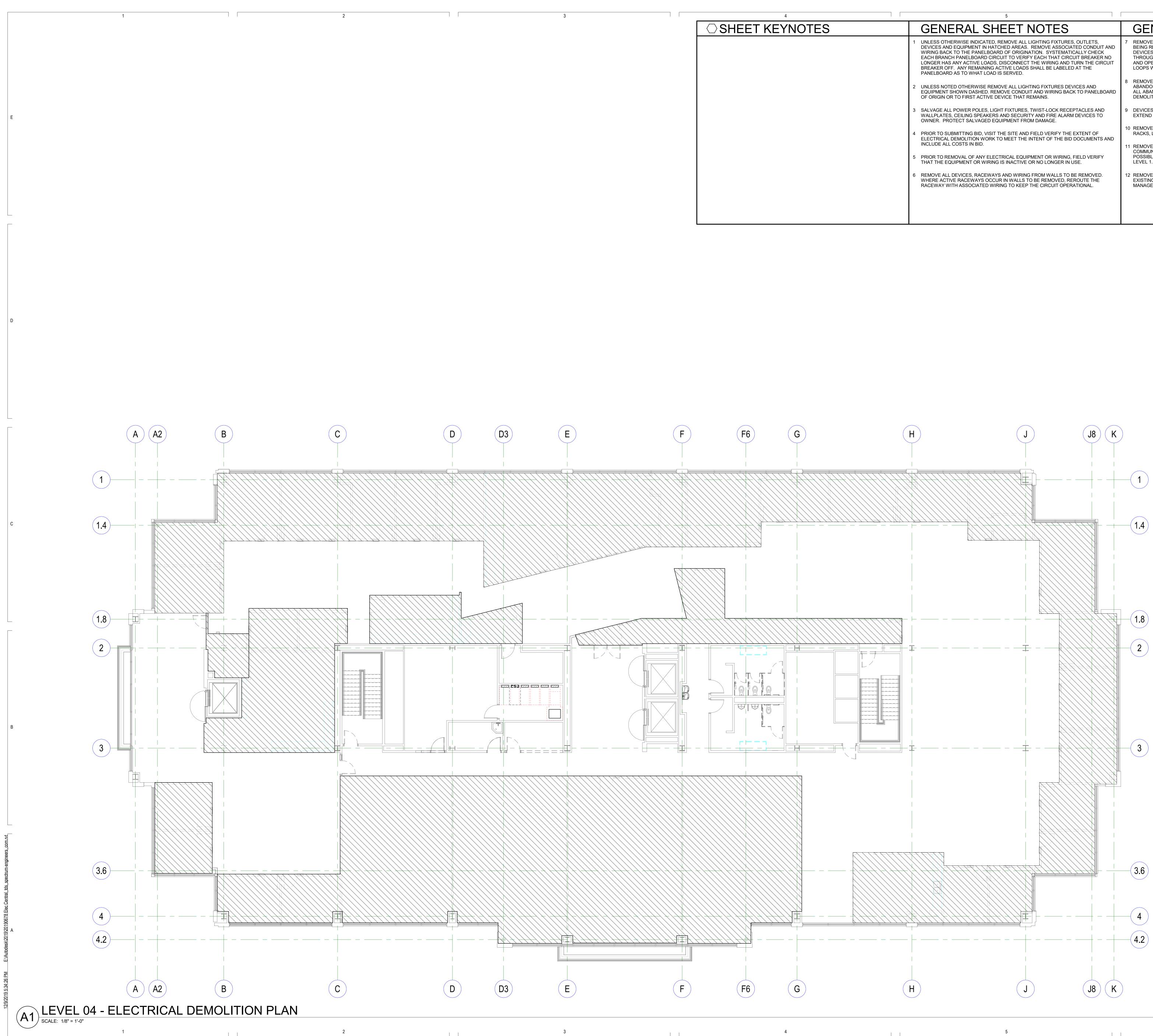




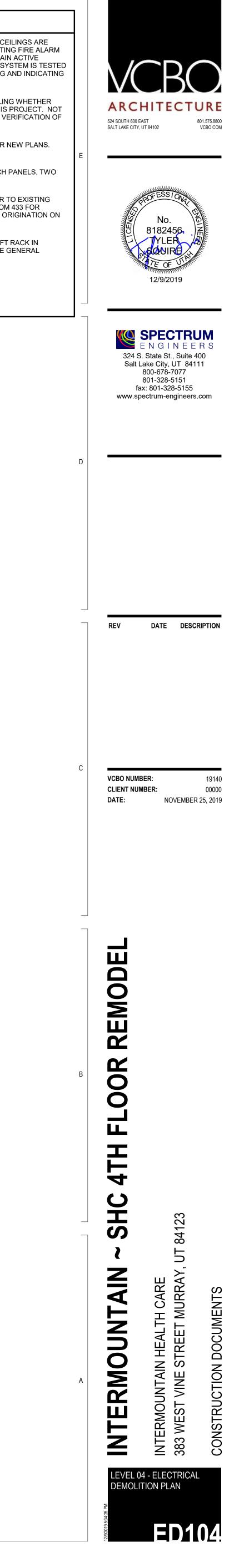


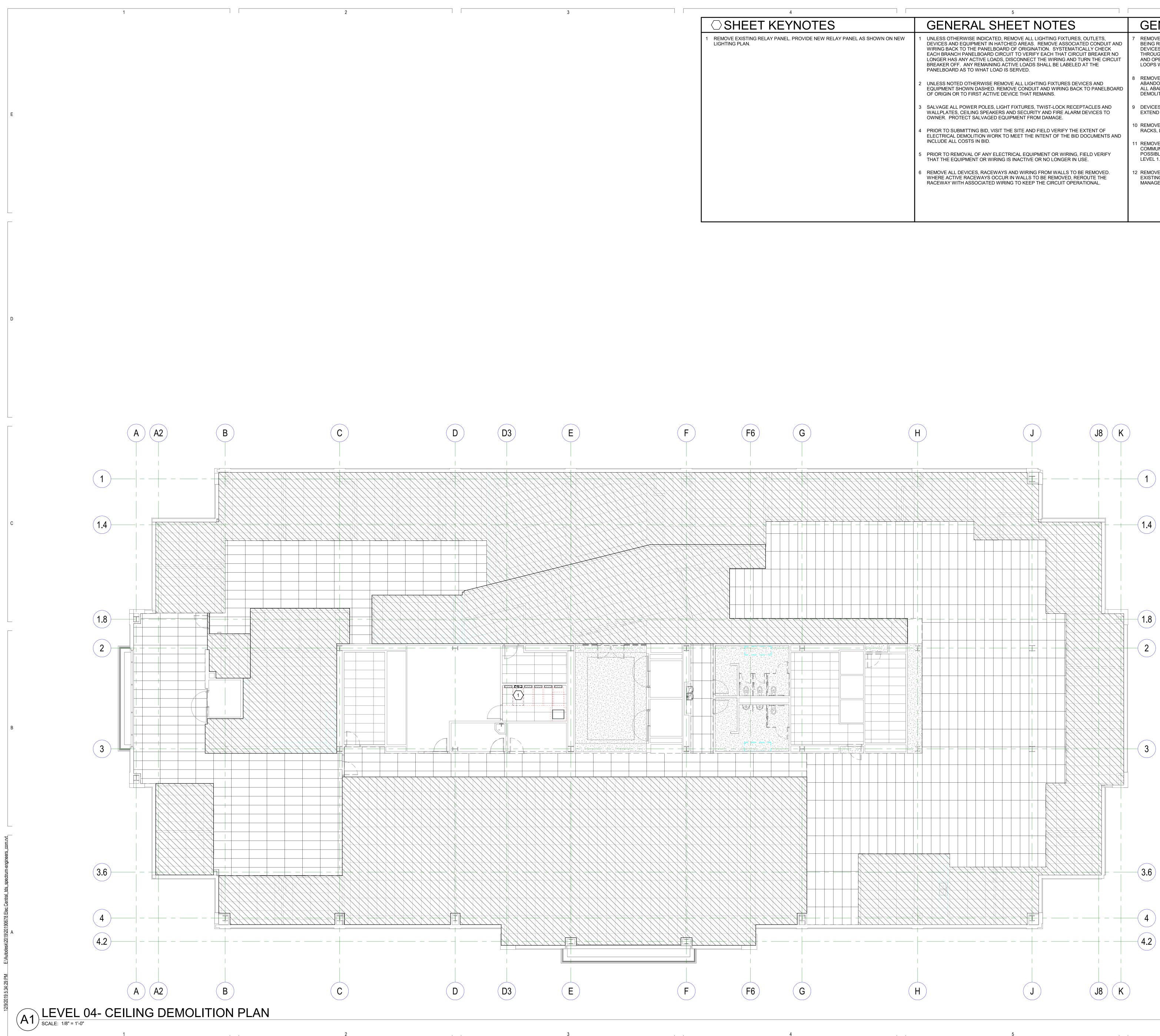




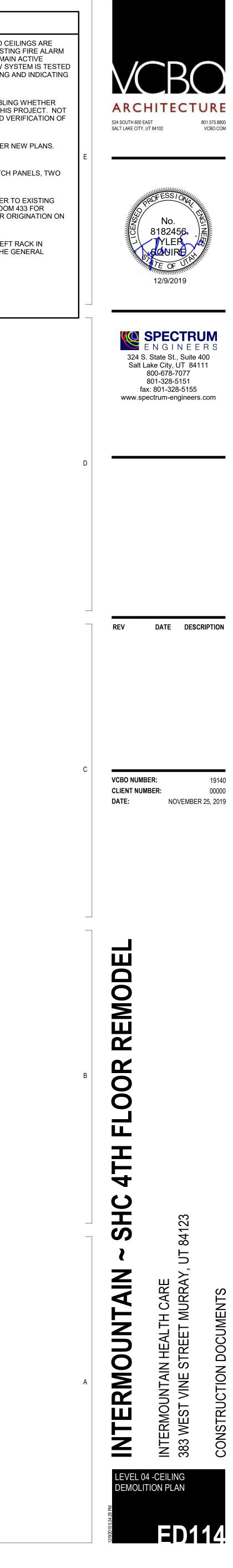


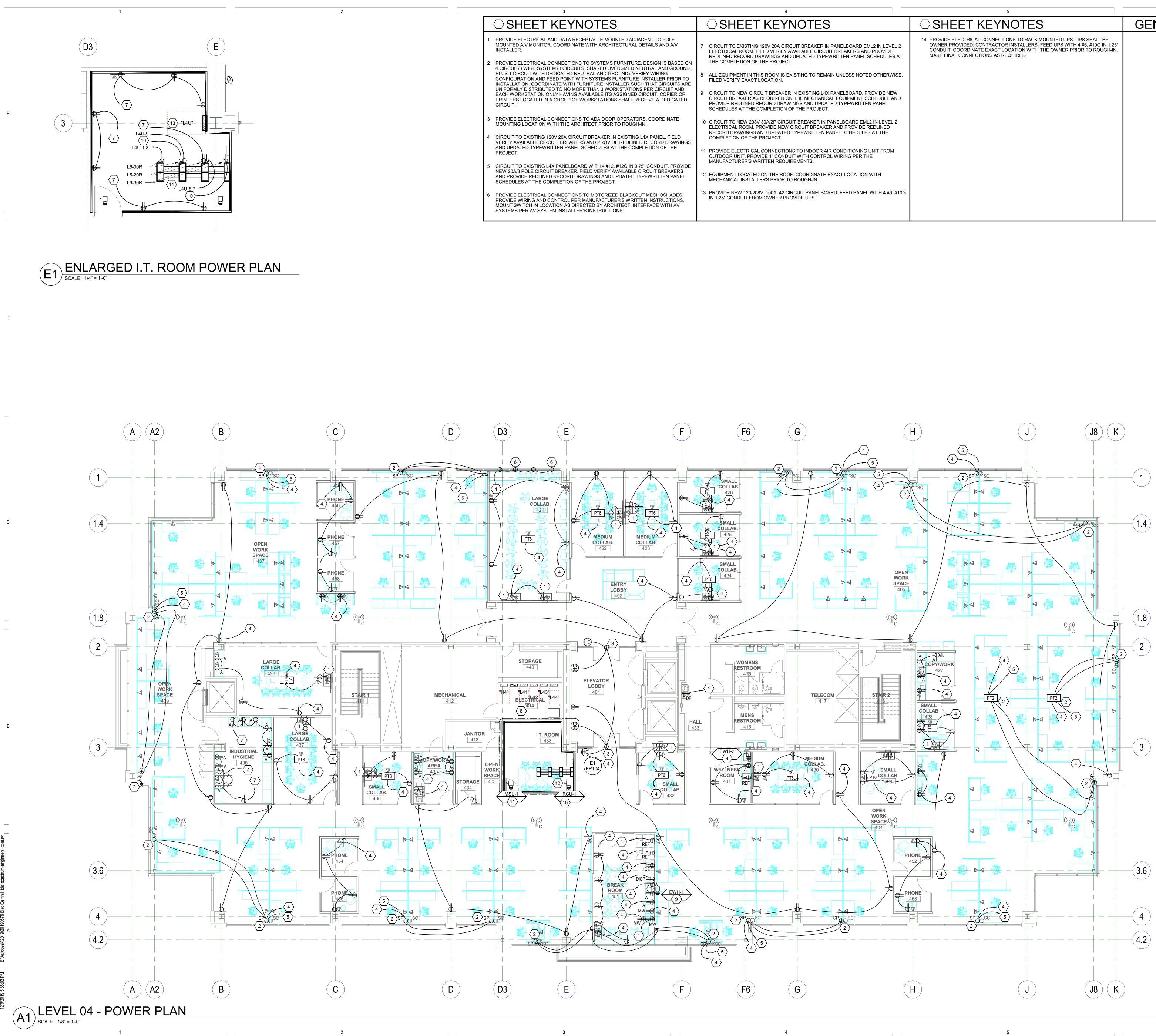
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GENERAL SHEET NOTES	GENERAL SHEET NOTES
1 UNLESS OTHERWISE INDICATED, REMOVE ALL LIGHTING FIXTURES, OUTLETS, DEVICES AND EQUIPMENT IN HATCHED AREAS. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO THE PANELBOARD OF ORIGINATION. SYSTEMATICALLY CHECK EACH BRANCH PANELBOARD CIRCUIT TO VERIFY EACH THAT CIRCUIT BREAKER NO LONGER HAS ANY ACTIVE LOADS, DISCONNECT THE WIRING AND TURN THE CIRCUIT BREAKER OFF. ANY REMAINING ACTIVE LOADS SHALL BE LABELED AT THE PANELBOARD AS TO WHAT LOAD IS SERVED.	7 REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEIL BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN / THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYS AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AN LOOPS WHERE EXISTING DEVICES ARE REMOVED.
2 UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS.	8 REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS PL ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VER DEMOLITION SCOPE EXTENT IS REQUIRED.
3 SALVAGE ALL POWER POLES, LIGHT FIXTURES, TWIST-LOCK RECEPTACLES AND WALLPLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO OWNER. PROTECT SALVAGED EQUIPMENT FROM DAMAGE.	9 DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NE EXTEND CIRCUITING AS REQUIRED FOR RELOCATION.
4 PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID.	10 REMOVE ALL DATA CABLES CONNECTED TO THREE 48-PORT PATCH PARACKS, LADDER RACK AND ASSOCIATED HARDWARE ON FLOOR.
5 PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE.	11 REMOVE FIBER AND COPPER CABLE FROM VERTICAL CABLE RISER TO COMMUNICATIONS ROOM. NEATLY COIL COMCAST FIBER IN IT ROOM 4 POSSIBLE FUTURE USE. REMOVE ALL OTHER CABLE TO POINT OR ORI LEVEL 1.
6 REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED. WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, REROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL.	12 REMOVE AND SAVE COMCAST CIENA NETWORK EQUIPMENT IN LEFT R EXISTING COMMUNICATIONS ROOM. GIVE THIS EQUIPMENT TO THE GE MANAGER FOR COMCAST TO PICKUP.





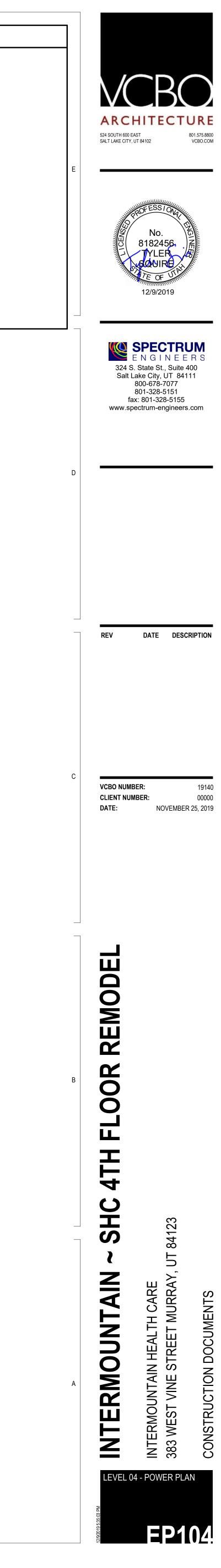
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	GENERAL SHEET NOTES	GENERAL SHEET NOTES
IEL AS SHOWN ON NEW	 UNLESS OTHERWISE INDICATED, REMOVE ALL LIGHTING FIXTURES, OUTLETS, DEVICES AND EQUIPMENT IN HATCHED AREAS. REMOVE ASSOCIATED CONDUIT AND WIRING BACK TO THE PANELBOARD OF ORIGINATION. SYSTEMATICALLY CHECK EACH BRANCH PANELBOARD CIRCUIT TO VERIFY EACH THAT CIRCUIT BREAKER NO LONGER HAS ANY ACTIVE LOADS, DISCONNECT THE WIRING AND TURN THE CIRCUIT BREAKER OFF. ANY REMAINING ACTIVE LOADS SHALL BE LABELED AT THE PANELBOARD AS TO WHAT LOAD IS SERVED. UNLESS NOTED OTHERWISE REMOVE ALL LIGHTING FIXTURES DEVICES AND EQUIPMENT SHOWN DASHED. REMOVE CONDUIT AND WIRING BACK TO PANELBOARD OF ORIGIN OR TO FIRST ACTIVE DEVICE THAT REMAINS. SALVAGE ALL POWER POLES, LIGHT FIXTURES, TWIST-LOCK RECEPTACLES AND WALLPLATES, CEILING SPEAKERS AND SECURITY AND FIRE ALARM DEVICES TO OWNER. PROTECT SALVAGED EQUIPMENT FROM DAMAGE. PRIOR TO SUBMITTING BID, VISIT THE SITE AND FIELD VERIFY THE EXTENT OF ELECTRICAL DEMOLITION WORK TO MEET THE INTENT OF THE BID DOCUMENTS AND INCLUDE ALL COSTS IN BID. PRIOR TO REMOVAL OF ANY ELECTRICAL EQUIPMENT OR WIRING, FIELD VERIFY THAT THE EQUIPMENT OR WIRING IS INACTIVE OR NO LONGER IN USE. REMOVE ALL DEVICES, RACEWAYS AND WIRING FROM WALLS TO BE REMOVED. WHERE ACTIVE RACEWAYS OCCUR IN WALLS TO BE REMOVED, REROUTE THE RACEWAY WITH ASSOCIATED WIRING TO KEEP THE CIRCUIT OPERATIONAL. 	 REMOVE ALL FIRE ALARM DEVICES WHERE EXISTING WALLS AND CEIL BEING REMOVED, WITH ASSOCIATED CONDUIT AND WIRING. EXISTING DEVICES AND SYSTEM NOT INDICATED FOR REMOVAL SHALL REMAIN THROUGHOUT DEMOLITION AND CONSTRUCTION UNTIL THE NEW SYS AND OPERATIONAL. MAINTAIN ALL CLASS A FIRE ALARM INITIATING AN LOOPS WHERE EXISTING DEVICES ARE REMOVED. REMOVE ALL ABANDONED RACEWAY, CONDUIT, WIRING AND CABLING ABANDONED PREVIOUS TO THIS PROJECT OR AS A RESULT OF THIS P ALL ABANDONED ITEMS ARE SHOWN ON THESE PLANS AND FIELD VEF DEMOLITION SCOPE EXTENT IS REQUIRED. DEVICES MARKED "RR" ARE TO BE REMOVED AND RELOCATED PER NI EXTEND CIRCUITING AS REQUIRED FOR RELOCATION. REMOVE ALL DATA CABLES CONNECTED TO THREE 48-PORT PATCH P RACKS, LADDER RACK AND ASSOCIATED HARDWARE ON FLOOR. REMOVE FIBER AND COPPER CABLE FROM VERTICAL CABLE RISER TO COMMUNICATIONS ROOM. NEATLY COIL COMCAST FIBER IN IT ROOM 4 POSSIBLE FUTURE USE. REMOVE ALL OTHER CABLE TO POINT OR OR LEVEL 1. REMOVE AND SAVE COMCAST CIENA NETWORK EQUIPMENT IN LEFT F EXISTING COMMUNICATIONS ROOM. GIVE THIS EQUIPMENT TO THE GI MANAGER FOR COMCAST TO PICKUP.





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	○SHEET KEYNOTES	○ SHEET KEYNOTES
	 PROVIDE ELECTRICAL AND DATA RECEPTACLE MOUNTED ADJACENT TO POLE MOUNTED A/V MONITOR. COORDINATE WITH ARCHITECTURAL DETAILS AND A/V INSTALLER. PROVIDE ELECTRICAL CONNECTIONS TO SYSTEMS FURNITURE. DESIGN IS BASED ON 	7 CIRCUIT TO EXISTING 120V 20A CIRCUIT BREAKER IN PANELBI ELECTRICAL ROOM. FIELD VERIFY AVAILABLE CIRCUIT BREAK REDLINED RECORD DRAWINGS AND UPDATED TYPEWRITTEN THE COMPLETION OF THE PROJECT,
	4 CIRCUIT/8 WIRE SYSTEM (3 CIRCUITS, SHARED OVERSIZED NEUTRAL AND GROUND, PLUS 1 CIRCUIT WITH DEDICATED NEUTRAL AND GROUND). VERIFY WIRING CONFIGURATION AND FEED POINT WITH SYSTEMS FURNITURE INSTALLER PRIOR TO INSTALLATION. COORDINATE WITH FURNITURE INSTALLER SUCH THAT CIRCUITS ARE	8 ALL EQUIPMENT IN THIS ROOM IS EXISTING TO REMAIN UNLES FILED VERIFY EXACT LOCATION.
	UNIFORMLY DISTRIBUTED TO NO MORE THAN 3 WORKSTATIONS PER CIRCUIT AND EACH WORKSTATION ONLY HAVING AVAILABLE ITS ASSIGNED CIRCUIT. COPIER OR PRINTERS LOCATED IN A GROUP OF WORKSTATIONS SHALL RECEIVE A DEDICATED CIRCUIT.	9 CIRCUIT TO NEW CIRCUIT BREAKER IN EXISTING L4X PANELBO CIRCUIT BREAKER AS REQUIRED ON THE MECHANICAL EQUIP PROVIDE REDLINED RECORD DRAWINGS AND UPDATED TYPE SCHEDULES AT THE COMPLETION OF THE PROJECT.
	3 PROVIDE ELECTRICAL CONNECTIONS TO ADA DOOR OPERATORS. COORDINATE MOUNTING LOCATION WITH THE ARCHITECT PRIOR TO ROUGH-IN.	10 CIRCUIT TO NEW 208V 30A/2P CIRCUIT BREAKER IN PANELBO/ ELECTRICAL ROOM. PROVIDE NEW CIRCUIT BREAKER AND PR RECORD DRAWINGS AND UPDATED TYPEWRITTEN PANEL SCI
	4 CIRCUIT TO EXISTING 120V 20A CIRCUIT BREAKER IN EXISTING L4X PANEL. FIELD VERIFY AVAILABLE CIRCUIT BREAKERS AND PROVIDE REDLINED RECORD DRAWINGS	COMPLETION OF THE PROJECT.
	AND UPDATED TYPEWRITTEN PANEL SCHEDULES AT THE COMPLETION OF THE PROJECT.	11 PROVIDE ELECTRICAL CONNECTIONS TO INDOOR AIR CONDIT OUTDOOR UNIT. PROVIDE 1" CONDUIT WITH CONTROL WIRING MANUFACTURER'S WRITTEN REQUIREMENTS.
	5 CIRCUIT TO EXISTING L4X PANELBOARD WITH 4 #12, #12G IN 0.75" CONDUIT. PROVIDE NEW 20A/3 POLE CIRCUIT BREAKER. FIELD VERIFY AVAILABLE CIRCUIT BREAKERS AND PROVIDE REDLINED RECORD DRAWINGS AND UPDATED TYPEWRITTEN PANEL SCHEDULES AT THE COMPLETION OF THE PROJECT.	12 EQUIPMENT LOCATED ON THE ROOF. COORDINATE EXACT LO MECHANICAL INSTALLERS PRIOR TO ROUGH-IN.
	6 PROVIDE ELECTRICAL CONNECTIONS TO MOTORIZED BLACKOUT MECHOSHADES. PROVIDE WIRING AND CONTROL PER MANUFACTURER'S WRITTEN INSTRUCTIONS. MOUNT SWITCH IN LOCATION AS DIRECTED BY ARCHITECT. INTERFACE WITH AV	13 PROVIDE NEW 120/208V, 100A, 42 CIRCUIT PANELBOARD. FEEI IN 1.25" CONDUIT FROM OWNER PROVIDE UPS.

	5	6
	○SHEET KEYNOTES	GENERAL SHEET NOTES
LBOARD EML2 IN LEVEL 2 AKERS AND PROVIDE EN PANEL SCHEDULES AT	14 PROVIDE ELECTRICAL CONNECTIONS TO RACK MOUNTED UPS. UPS SHALL BE OWNER PROVIDED, CONTRACTOR INSTALLERS. FEED UPS WITH 4 #6, #10G IN 1.25" CONDUIT. COORDINATE EXACT LOCATION WITH THE OWNER PRIOR TO ROUGH-IN. MAKE FINAL CONNECTIONS AS REQUIRED.	
LESS NOTED OTHERWISE.		
LBOARD. PROVIDE NEW UIPMENT SCHEDULE AND PEWRITTEN PANEL		
BOARD EML2 IN LEVEL 2 PROVIDE REDLINED SCHEDULES AT THE		
DITIONING UNIT FROM ING PER THE		
LOCATION WITH		
EED PANEL WITH 4 #6, #10G		



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								AE	BB	RE	VI	AT)NS	3			
СОМ	PARTMENT GANG			R		IGS					US	E					CON	
NOT APPLICABLE 2H - 2-HOUF A/V - A/V CONNECTIONS, REFER TO A/V									ED, UI	-	CF	- CO	NCRE	TE FLC	OR		I	RECESSE FLOOR W CAN BE C
D- DR-	DRAWINGS/SPECIFICATIONS D - DATA RECEPTACLE DR - DUPLEX RECEPTACLE QR - QUADRAPLEX RECEPTACLE																	
NOTI 1 PF	ES: ROVIDE ALL REQUIRED F	'IARD'	WAR	e fof	R COM	PLETE	E INST	ALLAT	FION.							-	COVE	- FLANG CARPE
2 IN	CLUDE SEPARATION BA	RRIEF	R BET	WEE	N SYS	TEMS	AND	POWE	R.									GRAY I
		DIM	ENSI	ONS			CC	MPAF		ITS	1		_					R 1
		GTH	- 	臣	<u>G</u> 1	G 2	G 3	G 4	G 5	9 9	G 7	68	RATINGS		CONNECTION	ER	H	MANUFACTURER
ID	DESCRIPTION	LENGTH	WIDTH	DEPTH	GANG	GANG	GANG	GANG	GANG	GANG	GANG 7	GANG 8	RAT	USE	CON	COVER	FINISH	MAN

FURNITURE FEED POKE-THRU

POWER/DATA/AV POKE-THRU

PT2 FIRE RATED 6"

PT6 FIRE RATED 6"



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ION	
SED CABLE CONNEC WITH HINGED LID F E CLOSED WHILE IN	OR ACCESS THAT

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GED WITH CARPET INSERT FOR PET AREAS, FLANGELESS FLUSH BRUSHED ALUMINUM LID

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IM	ENSI	ONS			CO	MPAR	TMEN	TS								5		R 2		
	WIDTH	DEPTH	GANG 1	GANG 2	GANG 3	GANG 4	GANG 5	GANG 6	GANG 7	GANG 8	RATINGS	USE	CONNECTION	COVER	FINISH	MANUFACTURER	PART #	MANUFACTUREI	PART #	NOTE S
	6"	18"	-	-	-	-	-	-	-	-	2H	CF	C1	CV1	AL	HUBBELL	S1R6P TFIT	WIREMOL D	-	
-	6"	18"	DR	D	A/V	A/V	A/V	-	-	-	2H	CF	C1	CV1	AL	HUBBELL	S1R6P TFIT	WIREMOL D	-	

- COORDIN	26 ED WITH ATE WIT	JLE KEY I EQUIPMENT IH THE DIVISION 23 TEMPERATURE C TROL WIRING BY DIVISION 23	ONTROL	INSTALLI	ER	3. PROV 4. CONT 5. TOGG	LE SWIT IDE FUSI RACTOR LE SWIT	ed diso to pe ch w/e	CONNEC RFOM F BACNET	L OVERLOAD T ELEVATOR POWER MOI INAL CONNECTION TO LIN INTERFACE. ITDOOR UNIT. PROVIDE DI	EVO
							ГА				
MARK	QTY	ITEM DESCRIPTION	HP	kW	МСА	FLA	VOL T	PH	Hz	WIRE AND CONDUIT SIZE	F
EWH-1	1	ELECTRIC WATER HEATER	-	3	-	14.4	208	1	60	2 #10, #10 GR 0.75" CND	
EWH-2	1	ELECTRIC WATER HEATER	-	8	-	38.5	208	1	60	2 #4, #8 GR 1" CND	
MSU-1	1	AIR CONDITIONING UNIT	-	-	-	1	208	1	60	2 #10, #10 GR 0.75" CND	
RCU-1	1	AIR CONDITIONING UNIT	-	-	-	19	208	1	60	2 #10, #10 GR 0.75" CND	

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EQUIPMENT SCHEDULE INTERMOUNTAIN SHC 4TH FLOOR REMODEL GENERAL NOTES: 1. WHERE DISCONNECTS, STARTERS, OR VFCs ARE BEING PROVIDED BY ELECTRICAL CONTRACTOR, LOCATE EQUIPMENT IN ACCESSIBLE LOCATION, 7. PROVIDE SWITCH WITH BACNET MS/TP CAPABILITY. 8. PROVIDE LABEL ON DISCONNECT "DISCONNECT OUTDOOR UNIT PRIOR TO INDOOR." ULE WITH SHUNT TRIP 9. LINE VOLTAGE THERMOSTAT ON WALL. SUCH THAT IT IS WITHIN SITE OF THE MECHANICAL EQUIPMENT IT IS SERVING, VOLTAGE THERMOSTATS 10. PROVIDE EXPLOSION PROOF DEVICES AND WIRING METHODS. 11. PROVIDE DUAL-REDUNDANT 100% RATED VFD'S FOR AIR HANLDER. AND COMPLIES WITH N.E.C. REQUIRED CLEARANCES. CONNECTS FOR BOTH. 12. PROVIDE MANUAL STARTER WITH THERMAL OVERLOAD AND RELAY FOR ATC/BAS CONTROL. OVERCURRENT PROTECTION STARTER DISCONNECT NORMALLY NORMALLY PHASE SELECTOR PILOT OPEN CLOSED FAILURE FURN FURN FURN BY DEVICE LOCATION BY DEVICE LOCATION BY DEVICE SIZES SWITCH LAMP CONTACT CONTACT RELAY NOTES 30A/2P Е 30/2 ADJ TO Q Е -------EQUIP CB NF E 60A/2P ADJ TO Q -60/2 Е ------NF CB EQUIP 30/2 E 30A/2P ADJ TO Q - -Е -----6 NF CB EQUIP 30/2 E 30A/2P ADJ TO Q Е 6 -------CB NF EQUIP

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120/208V, 3 PH 4 WIRE 22" W x 6" D, BOLT-ON 100 AMPERE MAIN LUGS									~~												
	•		/IRE				,						SUF	RFACE I.T. ROOM 433							
CCE	SSORI				PAN	EL DIF	RECTORY, IDENTIFICATION, GROU							AIC		IG: 0					
СКТ		OCP		LC)AD (k	VA)			Ρ	HASE	LOA	D			LO	AD (k	/A)	OCP		C	
NO	AMP	POLE	BKR	LTG	PWR	CO	DESCRIPTION		Α	E	3	C		DESCRIPTION	CO	PWR	LTG	BKR POLE	AMP	N	
1	20	2		0.0	2.1	0.0	PWR: I.T. ROOM 433 RACK	1.0	0.0					SPARE				1	20		
3										1.0	0.0			SPARE				1	20		
5	20	2		0.0	2.1	0.0	PWR: I.T. ROOM 433 RACK					1.0	0.0	SPARE				1	20		
7								1.0	0.0					SPARE				1	20		
9	20	1		0.0	0.0	0.2	CO: I.T. ROOM 433 RACK			0.2	0.0			SPARE				1	20		
11	20	1					SPARE					0.0	0.0	SPARE				1	20		
13	20	1					SPARE	0.0	0.0					SPARE				1	20		
15	20	1					SPARE			0.0	0.0			SPARE				1	20		
17	20	1					SPARE					0.0	0.0	SPARE				1	20		
19	20	1					SPARE	0.0	0.0					SPARE				1	20		
21	20	1					SPARE			0.0	0.0			SPARE				1	20		
23	20	1					SPARE					0.0	0.0	SPARE				1	20		
25	20	1					SPARE	0.0	0.0					SPARE				1	20		
27	20	1					SPARE			0.0	0.0			SPARE				1	20		
29	20	1					SPARE					0.0	0.0	SPARE				1	20		
31	20	1					SPARE	0.0	0.0					SPARE				1	20		
33	20	1					SPARE			0.0	0.0			SPARE				1	20		
35	20	1					SPARE					0.0	0.0	SPARE				1	20		
37	20	1					SPARE	0.0	0.0					SPARE				1	20		
39	20	1					SPARE			0.0	0.0			SPARE				1	20	4	
11	20	1					SPARE					0.0	0.0	SPARE				1	20	4	
TAL	.S:						CONNECTED kVA PER PHASI	Ξ	2	1	I	1	1	CONNEC	CTED T	OTAL	<va =<="" td=""><td>4</td><td></td><td></td></va>	4			
							CONNECTED AMPS PER PHASI	ΞÝ	8	1	0	ę	Э	AVERAGE CONNECTED A	MPS PE	ER PH/	ASE =	12			
EC D	IVERS	SIFIED	LOAD	CALC	ULAT	IONS															
LIC	GHTING	G & CC	ONTINU	JOUS	LOAD	S:	- 100	% CO	NNEC	TED L	OAD	PLUS	S 25%	DIVE	ERSIFIE	ED TO	TAL k∖	/A = 4			
			RE	CEPT	ACLE	S: 0.2	kVA@100%=0.2 kVA - FIR	ST 10	vVA @	009	%, RE	MAIN	DER @ 50	0% AVERAG	E AMP	S PER	PHAS	SE = 12			
	ALL		ER LOA	ADS @	0 100%	6:	4.2 kVA - MO	TOR T	OTAL MOT	S INC		ED IN	ALL OTHE	ER LOADS WITH 6 PER NEC							

PANEL: "L4U"

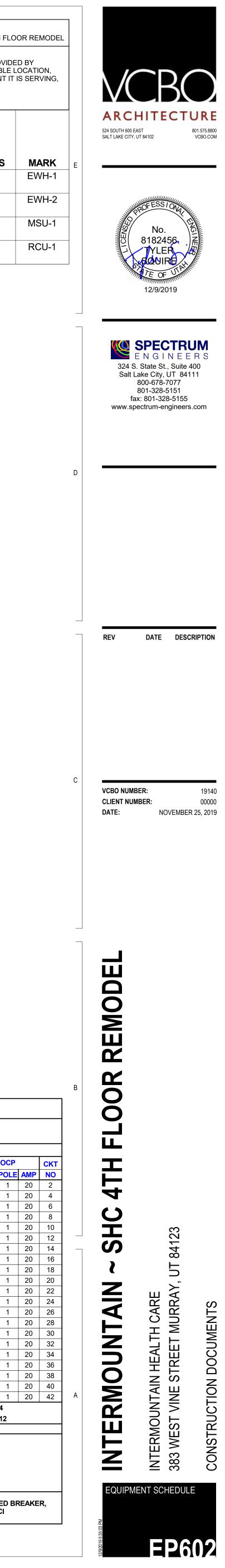
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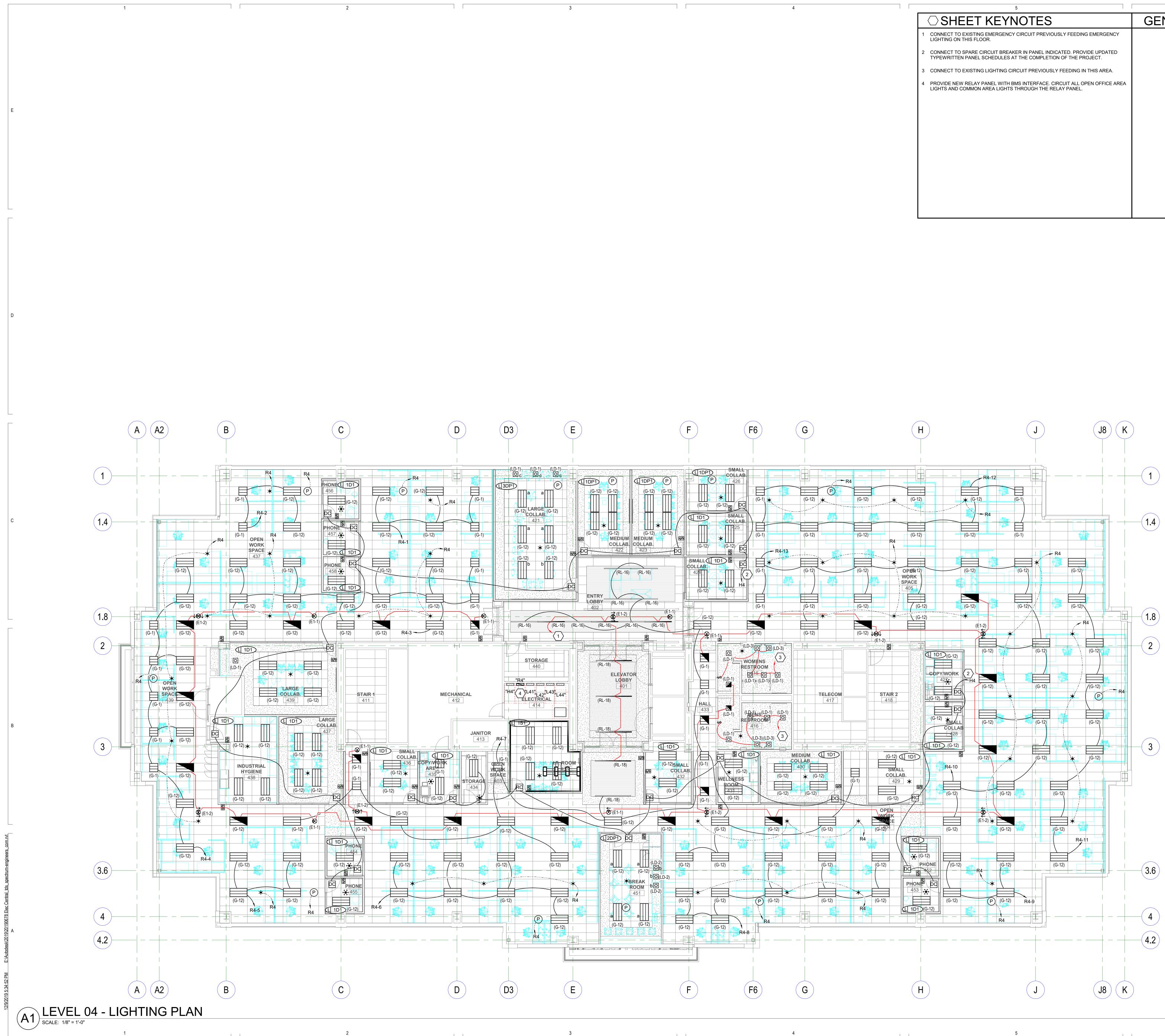
LOCATION:

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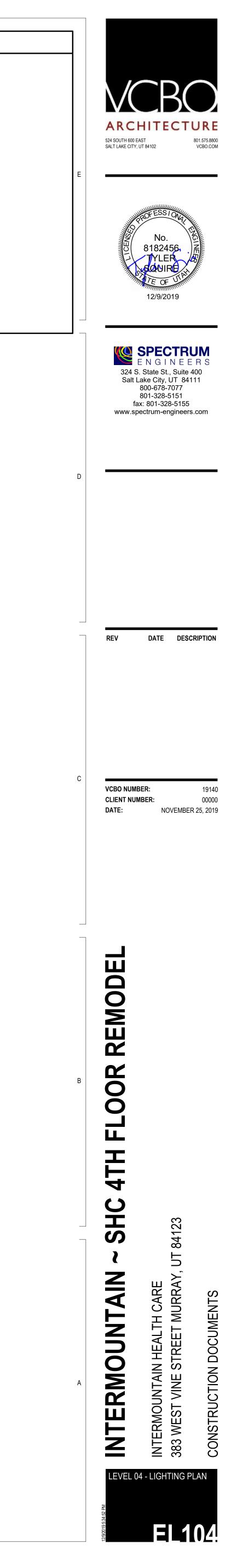
PANEL SIZE & TYPE: MAIN SIZE AND TYPE:

VOLTS/PHASE/WIRE:





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	GENERAL SHEET NOTES
1 CONNECT TO EXISTING EMERGENCY CIRCUIT PREVIOUSLY FEEDING EMERGENCY LIGHTING ON THIS FLOOR.	
2 CONNECT TO SPARE CIRCUIT BREAKER IN PANEL INDICATED. PROVIDE UPDATED TYPEWRITTEN PANEL SCHEDULES AT THE COMPLETION OF THE PROJECT.	
3 CONNECT TO EXISTING LIGHTING CIRCUIT PREVIOUSLY FEEDING IN THIS AREA.	
4 PROVIDE NEW RELAY PANEL WITH BMS INTERFACE. CIRCUIT ALL OPEN OFFICE AREA LIGHTS AND COMMON AREA LIGHTS THROUGH THE RELAY PANEL.	

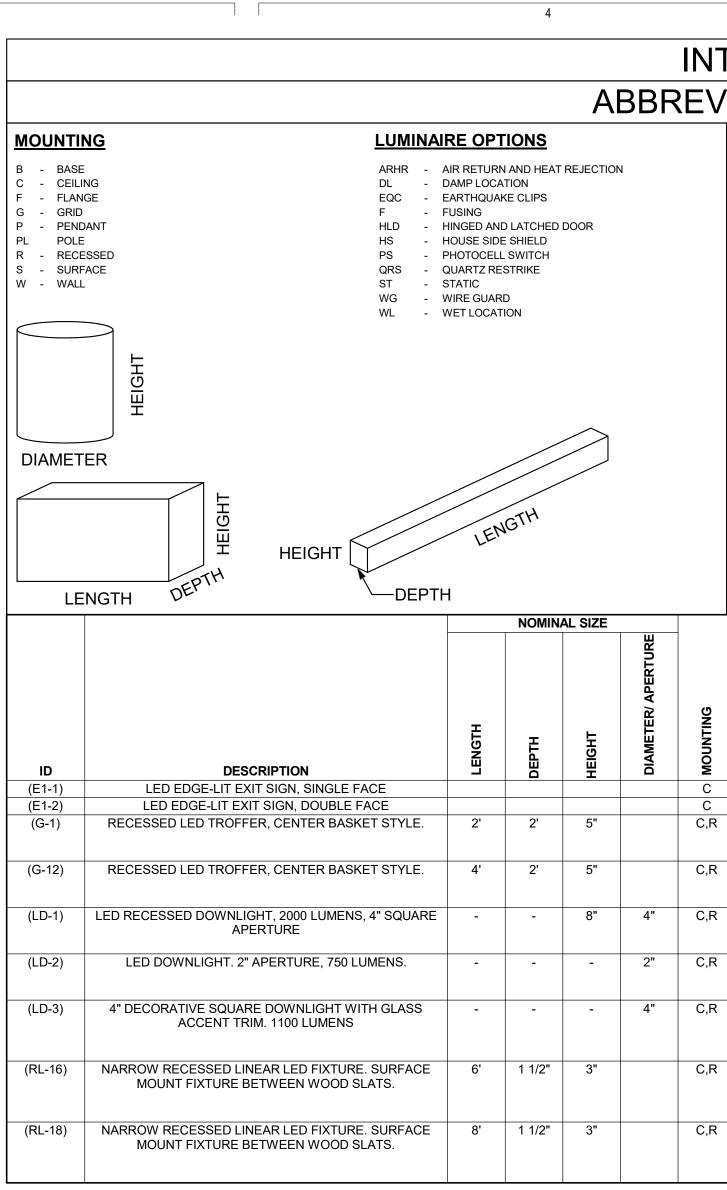


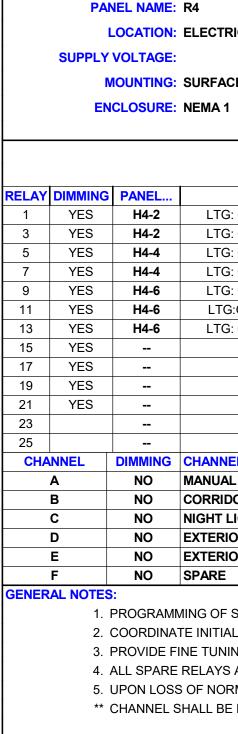
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1 T	ERI	OR	LIGF	ITING F	IXTL	JRE	SCH	EDl	JLE	2									
V	ATI	ONS	5											GENEF	RAL NOTES	S			
FINISHMW-MATTE WHITEBL-BLACKSL-SILVERGL-GOLDCL-CLEARPW-PAINTED WHITEEA-EXTRUDED ALUMINUMS-STEELGS-GALVANIZED STEELC-CASTCBA-COLOR BY ARCHITECTSCBA-STANDARD COLOR BY ARCHITECTCCA-CUSTOM COLOR BY ARCHITECTFS-MEETS FEDERAL209DSTANDARD 209DTP-FL-FLUSHRR-REGRESSM-MITERED				DIFFUSER/LI #A - #OA - GC - GLASS (OF SGL - SGL - DO - DO - DO - CGL - CONVEX G S - SATIN LEN	THICK THICK (OPAL) PAL) ROSTED) W LENS FORMANCE LI L GLASS LENS		PEFLECTOROPNONE/OPENSPSPECULARSPSEMI-SPECULARDDIFFUSE (WHITE ENAMEL)SCSPECULAR (COLORED)PRPRISMATICFDRFULL DEPTH REFLECTORDSDIFFUSE (SEMI SPECULAR) SILVERIRIRIDESCENTSLSILVERGLGOLDCACLEAR ALZAK						 PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DEL FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF T FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTI INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONT INSTALLER. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB M SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VER ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFOR ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AND DO NOT INCLUDE ANY TAXES. SUBSTITUTIONS AND/OR EQUAL FIXTURES MUST RECEIVE APPROVAL BIDDING, THEY MUST BE SUBMITTED TO THE ENGINEER NO LESS THA PRIOR TO BID OPENING. SAMPLES MUST BE PROVIDED FOR ANY AND ALL FIXTURES UPON A/E PRIOR TO RELEASING FIXTURES. ALL FIXTURES SHALL BE LISTED AND APPROVED FOR THEIR INTENDED LOCATION. VERIFY THE PROPER MOUNTING KITS OR ACCESSORIES TO FACILITAT INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. COMPLY WITH THE "INTERIOR LIGHTING" SECTION OF THE SPECIFICAT 8. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREME LIGHTING FIXTURES, DRIVERS, AND LAMPS. ALL LIGHT FIXTURES TO BE EITHER "DLC" OR "LIGHTING FACTS" LISTE APPROVED BY ARCHITECT/ENGINEER AND OWNER. 						
	ТҮРЕ	COLOR TEMP	CRI	DRIVER CONFIGURATION	VOLTAGE	WATTS	FINISH	FIXTURE LUMENS	DIFFUSER/LENS	REFLECTOR	SNOILdo		NOTES	MANU OPTION 1	JFACTURER (CATALOG SE OPTION 2	RIES) Of			
<u>-</u>		0	0	LED DRIVER	-	>	<u> </u>	0					2		DUAL-LITE (LESCSGXNA)	ISOLITE (
5				LED DRIVER		0		0							DUAL-LITE (LESCSGXNA)	ISOLITE (
,R	LED	3500K	80	LED DRIVER (0-10V DIMMING)	UNV	36		3300						LITHONIA (2BLT2-33L-ADP-EZ1-LP83 5)	COLUMBIA LIGHTING	, v			
,R	LED	3500K	80	LED DRIVER (0-10V DIMMING)	UNV	47		4800						LITHONIA (2BLT4-48L-ADP-EZ1-LP83 5)	COLUMBIA LIGHTING (LCAT24-35MLG-ED1U)				
,R	LED	3500K		LED DRIVER (0-10V DIMMING)	UNV	26	STEEL	2000						GOTHAM (ICO SQ-35/20-4AR-LSS-60D-M VOLT-GZ1)					
,R	LED	3500K		LED DRIVER (0-10V DIMMING)		20		750						GOTHAM (ICO-35/07-2AR-LSS-35D- MVOLT)	PRESCOLITE (D2LED-2D9LED9L35K8FL 35)				
,R	LED	3500K		LED DRIVER (0-10V DIMMING)		11	WH	1100						SPECTRUM (SGE4SQLED0S-10L-35K- DS10-UNV-CA0244OS-MW -FA4S-Q4)	PRESCOLITE (D2LED-2D9LED9L35K8FL 35)				
,R	LED	3500K	90+	LED DRIVER (0-10V DIMMING)	UNV	44	BL	4000						LUMENWERX (MIKPD-HLO-LED-90-500-6 FT-UNV-MIKDR-1-53WAC3 6-W)	-				
,R	LED	3500K	90+	LED DRIVER (0-10V DIMMING)	UNV	66	BL	6600						LUMENWERX (MIKPD-HLO-LED-90-500-8 FT-UNV-MIKDR-1-53WAC3 6-W)	-				

5

LIGHTING RELAY PANEL SCHEDULE

PANEL NAME: R4 LOCATION: ELECTRICAL 414 SUPPLY VOLTAGE: **MOUNTING: SURFACE**

ACCESSORIES: INTEGRAL PROCESSOR ASTRONOMICAL TIMECLOCK LAN CONNECTIVIITY AND CONTROL

CHANNEL CONTROL CHANNEL CONTROL PANEL... DIMMING RELA DESCRIPTION A B C D E F LOAD (WATTS) F E D C B A DESCRIPTION

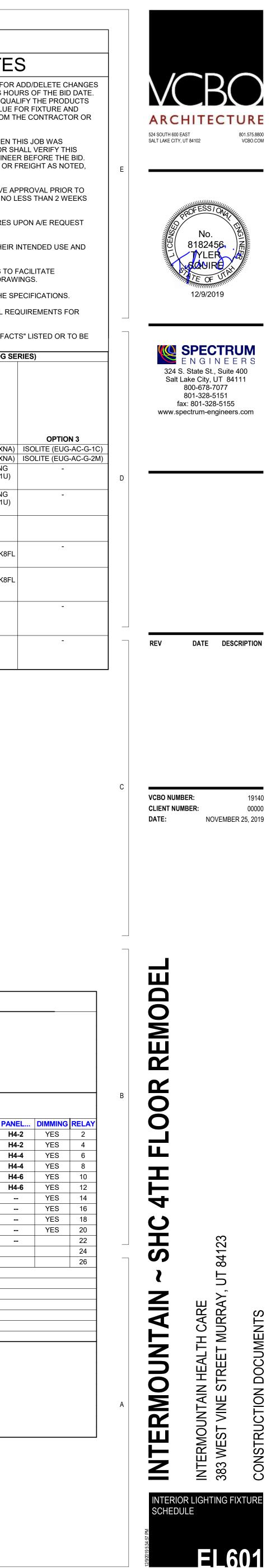
 Image: Constraint of the constraint LTG: OPEN WORK SPACE 437 H4-2 YES 2 1 YES **H4-2** LTG: OPEN WORK SPACE 437 LTG: OPEN WORK SPACE 437, 439 **H4-2** YES 4 3 YES H4-2 LTG: OPEN WORK SPACE 437 5 YES H4-4 LTG: OPEN WORK SPACE 449 LTG: OPEN WORK SPACE 449 H4-4 YES 6 7 YES H4-4 LTG: OPEN WORK SPACE 449 LTG: OPEN WORK SPACE H4-4 YES 8 LTG: OPEN WORK SPACE 449 H4-6 YES 10 9 YES H4-6 LTG: OPEN WORK SPACE 449 11 YES **H4-6** LTG:OPEN WORK SPACE 449 LTG: OPEN WORK SPACE 449 H4-6 YES 12 13 YES **H4-6** LTG: OPEN WORK SPACE 449 SPARE -- YES 16 SPARE SPARE SPARE SPARE -- YES 18 SPARE SPARE --SPARE SPARE ____ SPARE LIGHTING SENSORS --LIGHTING SENSORS SPARE --CHANNEL PROGRAMMING REQUIREMENTS DIMMING CHANNEL DESCRIPTION NO MANUAL ON, AUTO SWEEP OFF SWEEP OFF AT (10PM), MANUAL ON/OFF VIA LOW VOLTAGE SWITCH** NO CORRIDOR & COMMON SPACE TIME OFF (10PM)/TIME ON (6AM)** NO NIGHT LIGHTS ALWAYS ON - NIGHT LIGHTING, MANUAL OFF VIA LOW VOLTAGE SWITCH NO EXTERIOR LIGHTS OUT AT MIDNIGHT EXTERIOR PHOTOCELL ON/TIME OFF (12AM) NO EXTERIOR LIGHTING ALL NIGHT EXTERIOR PHOTOCELL ON/OFF NO SPARE PROGRAM AS DIRECTED BY OWNER

1. PROGRAMMING OF SYSTEM SHALL COMPLY WITH CURRENT IECC REQUIREMENTS.

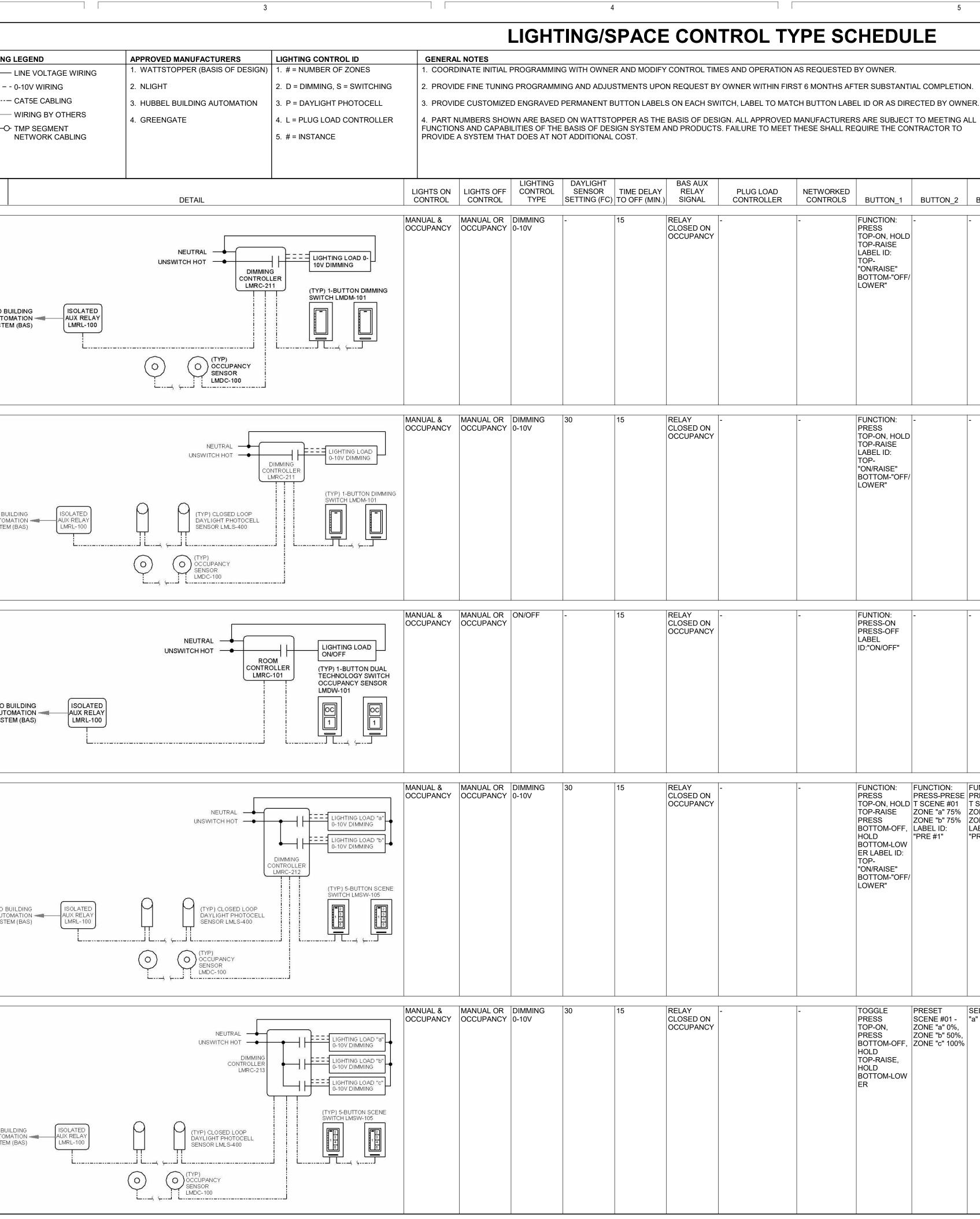
2. COORDINATE INITIAL PROGRAMMING WITH OWNER AND MODIFY CONTROL TIMES AND OPERATION AS REQUESTED BY OWNER. 3. PROVIDE FINE TUNING PROGRAMMING AND ADJUSTMENTS UPON REQUEST BY OWNER WITHIN FIRST 6 MONTHS AFTER SUBSTANTIAL COMPLETION.

4. ALL SPARE RELAYS AND CHANNELS SHALL BE INCLUDED WITH ORIGINAL SYSTEM INSTALLATION.

5. UPON LOSS OF NORMAL POWER, ALL EMERGENCY LIGHTING RELAYS SHALL TURN ON TO 100% UNTIL NORMAL POWER IS RESTORED, THEN GO BACK TO STANDARD MODE. ** CHANNEL SHALL BE PROGRAMMED WITH 10 MINUTE WARNING PRIOR TO TURNING LIGHTS OFF BY BLINKING THE LIGHTS OFF/ON/OFF/ON.

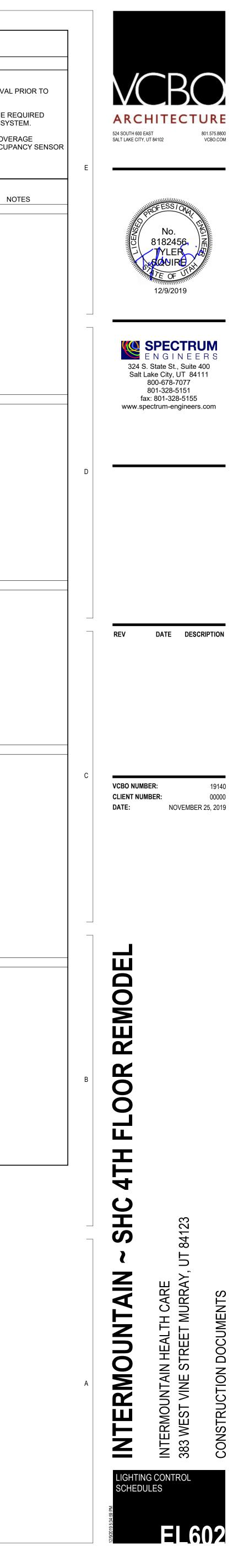


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5 6 LIGHTING/SPACE CONTROL TYPE SCHEDULE GENERAL NOTES 5. REFER TO PLANS FOR LOCATIONS AND QUANTITIES OF DEVICES. 6. INSTALL ONE OF EACH CONTROL TYPE WITH PROGRAMMING, ADJUST, AND OBTAIN OWNERS APPROVAL PRIOR TO PROGRAMMING THE REMAINING CONTROLS. 7. WIRING MAY VARY BETWEEN MANUFACTURERS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE REQUIRED WIRING THAT WILL BOTH MEET THE MANUFACTURERS REQUIREMENTS AND MATCH WITH THE SHOWN SYSTEM. 8. PROVIDE COMPLETE SHOP DRAWING SUBMITTALS INCLUDING OCCUPANCY SENSOR LAYOUT AND COVERAGE PATTERNS. PROVIDE ADDITIONAL SENSORS AS REQUIRED FOR 100% COVERAGE OF SPACES WITH OCCUPANCY SENSOR CONTROL. PLUG LOAD NETWORKED CONTROLLER CONTROLS BUTTON_1 BUTTON_2 BUTTON_3 BUTTON_4 BUTTON_5 BUTTON 6 BUTTON 7 BUTTON_8 BUTTON_9 FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP-"ON/RAISE" BOTTOM-"OFF/ LOWER" FUNCTION: PRESS TOP-ON, HOLD TOP-RAISE LABEL ID: TOP-"ON/RAISE" BOTTOM-"OFF/ LOWER" FUNTION: PRESS-ON PRESS-OFF LABEL ID:"ON/OFF"

ON VCY		PRESS TOP-ON, HOLD TOP-RAISE PRESS BOTTOM-OFF,	PRESS-PRESE T SCENE #01 ZONE "a" 75% ZONE "b" 75% LABEL ID: "PRE #1"	PRESS-PRESE T SCENE #02	PRESS-SELEC T ZONE "a" FOR DIMMING	T ZONE "b"	-	-	-	-	
	I I										
		PRESS TOP-ON,	SCENE #01 - ZONE "a" 0%, ZONE "b" 50%,	SELECT ZONE "a"	SELECT ZONE	SELECT ZONE "c"	-	-	-	-	



	3	4				
	EQUIPMENT/CABLE LIST					
CABLING I PROVIDE A DESCRIPT	S INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES NSTALLATION. WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE A ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE, FOR A COMF IONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT M COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFE	ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE.				
SYMBOL	ITEM DESCRIPTION	ACCEPTABLE TYPES				
	STATION CABLE, DATA - CATEGORY 6A FUTP PLENUM, BLUE, DATA	SIEMON 9A6P4-A5-06-R1A				
	STATION CABLE, DATA - CATEGORY 6A FUTP PLENUM, YELLOW, WIRELESS DATA	SIEMON 9A6P4-A5-05-R1A				
	25 PAIR CATEGORY 3 RISER CABLE, GRAY	GENERAL CABLE OR EQUAL				
	FIBER OPTIC CABLE, SINGLE-MODE, 24 STRAND, ARMORED, PLENUM CABLE, YELLOW	SIEMON 9BC8R024L-E205A				
	FIBER OPTIC CABLE, SINGLE-MODE, 144 STRAND, ARMORED, INDOOR/OUTDOOR, BLACK	SIEMON 9GG8H144G-E201M				
E ▽	VOICE OUTLET, SINGLE GANG FACEPLATE, WHITE W/WALL HUNG PHONE MOUNTING STUDS, ONE POSITION W/CATEGORY 6A INSERT	SIEMON MX-WP-Z6AS-SS				
	DATA OUTLET, SINGLE GANG FACEPLATE, WHITE, 2 POSITION	SIEMON 10GMX-FPS02-02				
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06				
C V	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	SIEMON MX-SMZ2-02				
V	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06				
E	DATA OUTLET, FURNITURE FACEPLATE, BLACK	SIEMON MX-UMA-01				
F V	CATERGPRU 6A JACK - DATA, BLUE	SIEMON Z6A-S06				
	BLANK MODULE, BLACK	SIEMON MX-BL-01				
	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION	SIEMON MX-SMZ2-02				
	CATEGORY 6A JACK - DATA, YELLOW	SIEMON Z6A-S05				
	DATA OUTLET, SURFACE MOUNT BOX, WHITE, 1 POSITION	SIEMON MX-SMZ1-02				
	CATEGORY 6A JACK - DATA, BLUE	SIEMON Z6A-S06				
SPP1	48 PORT, 1RU ANGLE PATCH PANEL WITH OUTLETS	SIEMON Z6AS-PA-48				
RPP1	48 PORT, 1RU ANGLE PATCH PANEL, 110 STYLE	SIEMON HD5-24A				
	FIBER PATCH PANEL, EXPANDED UNIT FOR FIBER SPLICE TRAY CAPACITY, 3RU	SIEMON RIC3-E-48-01				
FPP1	SIX POSITION, 12 STRAND, FIBER SPLICE MODULE, LC	SIEMON FSM2-12-LCSM-01				
	FIBER SPLICE TRAY	SIEMON TRAY-3				
	BLANK ADAPTER PLATE, BLACK	SIEMON RIC-F-BLNK-01				
HWM	BLANK ADAPTER PLATE, BLACK	SIEMON RIC-F-BLNK-01				
	HORIZONTAL WIRE MANAGERS, 4RU	PANDUIT NCMHAEF4				
VWM	VERTICAL WIRE MANAGERS, DOUBLE SIDED, BLACK	CHATSWORTH 40096-703				
	EQUIPMENT RACK , 7' x 19", 45RU, BLACK	CHATSWORTH 55053-703				
	CABLE RUNWAY - 24", BLACK WITH ALL REQUIRED MOUNTING ACCESSORIES	CHATSWORTH 10250-724				
	CABLE RUNWAY - 18", BLACK WITH ALL REQUIRED MOUNTING ACCESSORIES	CHATSWORTH 10250-718				
	BUTT SPLICE KIT, BLACK	CHATSWORTH 11301-701				
	JUNCTION SPLICE KIT, BLACK	CHATSWORTH 11302-701				
	FOOT KIT, BLACK	CHATSWORTH 11309-701				
	6" CHANNEL RACK TO RUNWAY, BLACK	CHATSWORTH 12409-724				
	TRIANGLE BRACKETS, BLACK	CHATSWORTH 11746-724				
	END CLOSING KIT, CABLE RUNWAY, BLACK	CHATSWORTH 11700-724				
	WALL ANGLE SUPPORT KIT, CABLE RUNWAY, BLACK	CHATSWORTH 11421-724				
	CABLE RUNWAY ELEVATION KIT, 6"	CHATSWORTH 10506-706				
	CABLE RUNWAY RADIUS DROP	CHATSWORTH 12100-712				
	PLYWOOD BACKBOARD, 4' X 8', GRADE AC, FIRE TREATED & PAINTED					
	TELECOMMUNICATIONS MAIN GROUNDING BUS BAR					
<u> </u>	TELECOMMUNICATIONS GROUNDING BUS BAR					

TELECOMMUNICATIONS GROUNDING BUS BAR NOTE: ALL RACKS, LADDER, PATCH PANELS AND ACCESSORIES SHALL BE BLACK IN COLOR.

2

	CABLE/OUTLET COLOR SCHEDULE
COLOR	TYPE
BLACK	TV COAX
BLUE	ANALOG PHONE
BLUE	DATA
BLUE	IP SECURITY CAMERAS
GREY	SECURITY CARD READERS
ORANGE	CLINICAL ENGINEERING / NURSE CALL
RED	FIRE SYSTEMS
RED	FORESEER
WHITE	PUBLIC ADDRESS
YELLOW	WIRELESS
GREEN	VENDOR NETWORK

ABBREVIATIONS NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

AUGMENTED Α CAT CATEGORY ENHANCED E EACH EA ER EQUIPMENT ROOM FIBER PATCH PANEL FPP GIGA HERTZ GIG HORIZONTAL WIRE MANAGEMENT HWM NOT IN CONTRACT NIC OWNER ELECTRONICS OE PNM PLENUM PR

PAIR POWER SUPPLY PS RISER PATCH PANEL RPP SPP STATION PATCH PANEL

TELECOMMUNICATIONS DISTRIBUTION ROOM TDR TYP TYPICAL VWM VERTICAL WIRE MANAGEMENT

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

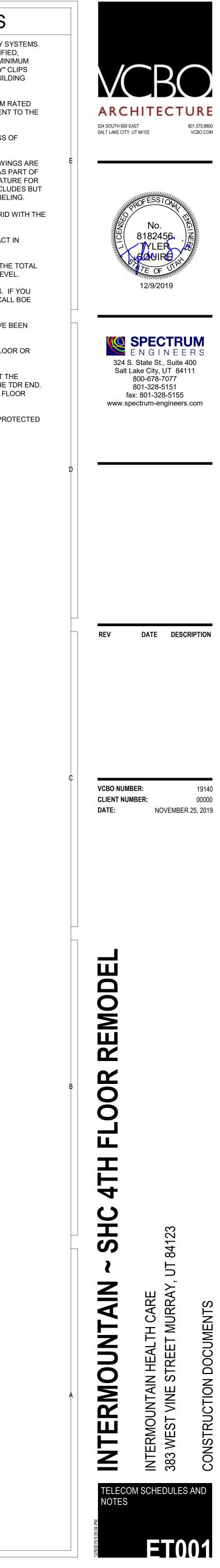
PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

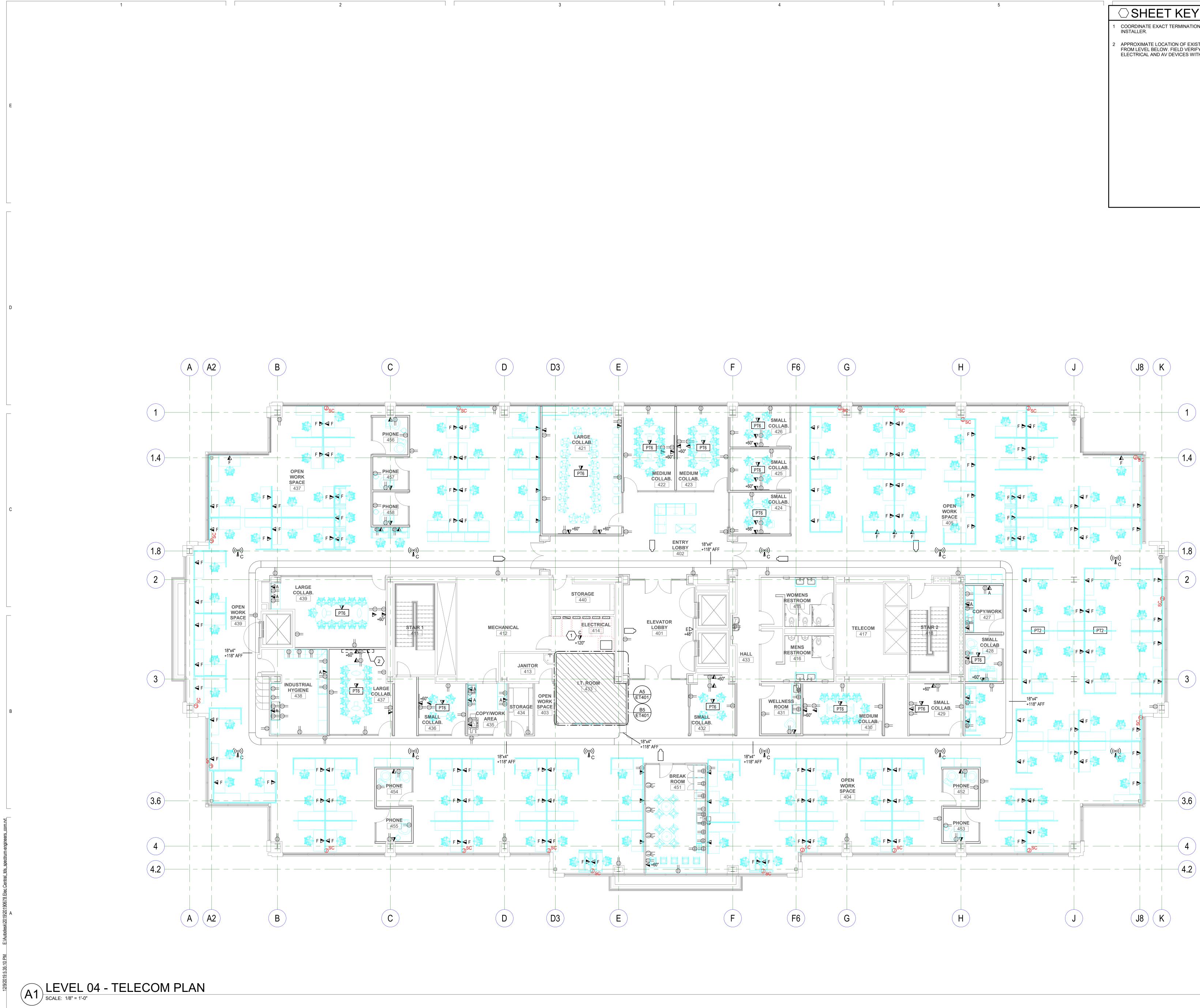
INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

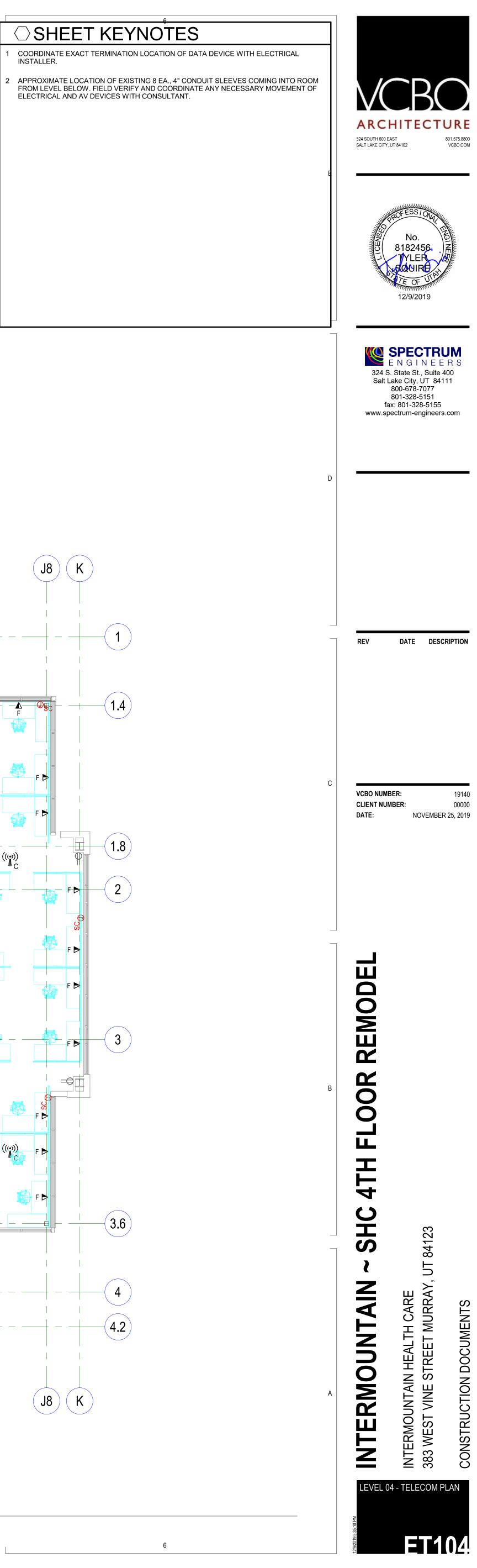
ELECTRONIC SYSTEMS: THE TERM "ELECTRONIC SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

GENERAL PROJECT NOTES

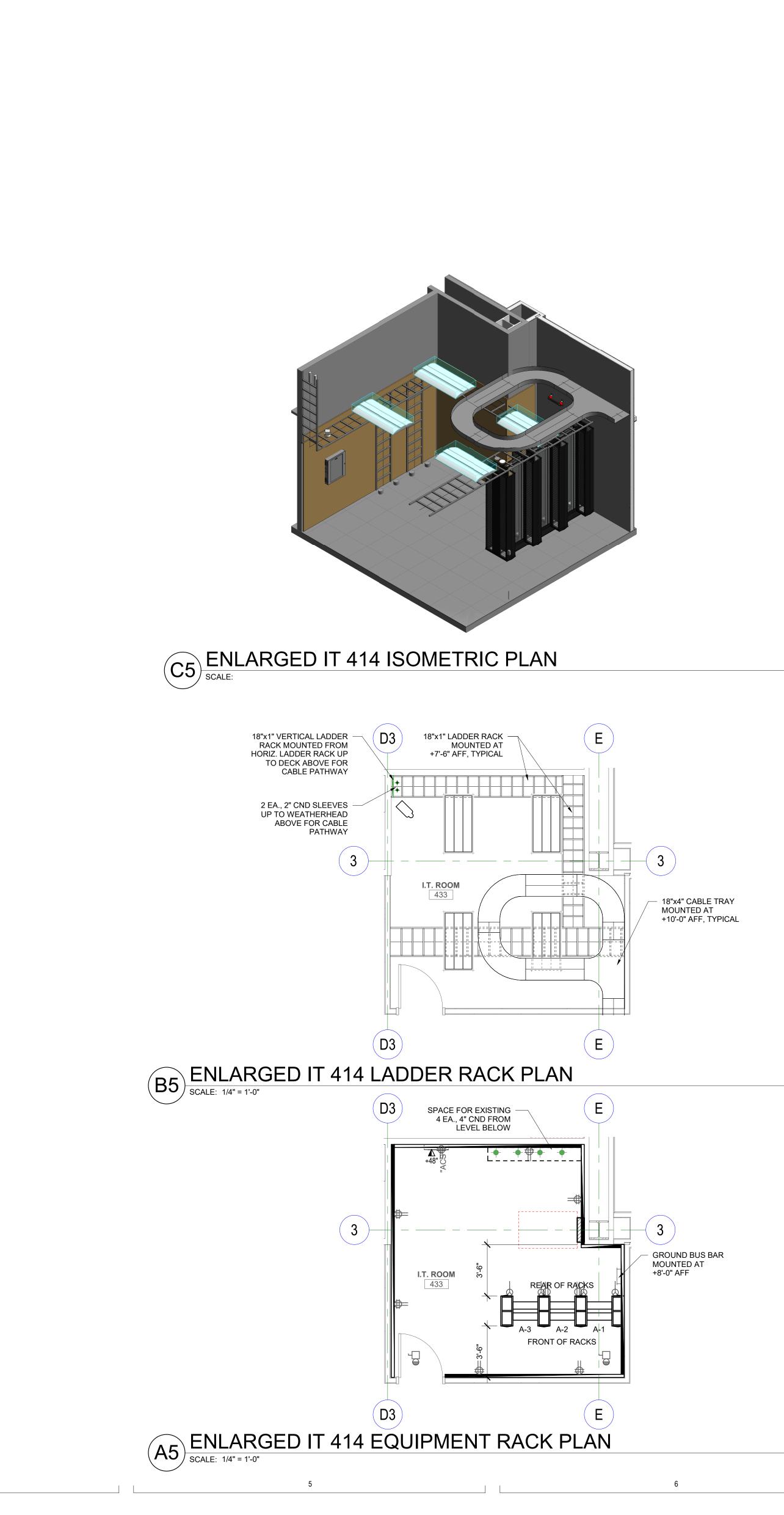
- 1. UNLESS OTHERWISE NOTED, INSTALL ALL CABLE INSIDE RACEWAY SYSTEMS. WHERE RACEWAY SYSTEMS HAVE NOT BEEN PROVIDED OR SPECIFIED, INSTALL CABLE THROUGH THE SPECIFIED "CADDY" CLIPS AT THE MINIMUM INTERVALS IDENTIFIED IN THE SPECIFICATIONS. SUPPORT "CADDY" CLIPS DIRECTLY FROM THE BUILDING STRUCTURE, NOT FROM OTHER BUILDING SYSTEM SUPPORT WIRES OR CABLE.
- PROVIDE PLENUM RATED CABLE IN ALL AIR PLENUMS. IF A PLENUM RATED CABLE IS NOT SPECIFIED, PROVIDE THE PLENUM RATED EQUIVALENT TO THE SPECIFIED CABLE.
- 3. LABEL ALL CABLE INSTALLED UNDER THIS CONTRACT REGARDLESS OF LENGTH.
- 4. THE EQUIPMENT LABELING IDENTIFIED ON DETAILS IN THESE DRAWINGS ARE EXAMPLES ONLY OF THE ACTUAL LABELING WHICH IS REQUIRED AS PART OF THIS CONTRACT. PRIOR TO FABRICATION, SUBMIT THE NOMENCLATURE FOR ALL LABELS TO THE OWNER FOR REVIEW. THIS REQUIREMENT INCLUDES BUT IS NOT LIMITED TO ALL CABLE LABELING, AND ALL EQUIPMENT LABELING.
- 5. IF OUTLET IS TERMINATED IN CEILING SPACE, LABEL THE T-BAR GRID WITH THE OUTLET NUMBER FOR EASY LOCATION AND IDENTIFICATION. 6. GROUND ALL EQUIPMENT RACKS INSTALLED UNDER THIS CONTRACT IN
- COMPLIANCE WITH THE CONTRACT DOCUMENTS. PROVIDE THE QUANTITY OF PATCH PANELS REQUIRED +20% FOR THE TOTAL
- DATA OUTLETS SHOWN ON FLOOR PLANS FOR THE PARTICULAR LEVEL. 8. RACK SPACE ALLOCATION SHOULD BE FOLLOWED PER DRAWINGS. IF YOU HAVE A SYSTEM THAT HAS NO RACK SPACE ALLOCATED PLEASE CALL BOE SAUSEDO AT 801-707-3805
- 9. ENSURE ALL BASKET TRAY AND COMMUNICATIONS CONDUITS HAVE BEEN GROUNDED TO THE TEC/TDR, USING A MINIMUM #6 CU.
- 10. CONTRACTOR TO LOOSELY BUNDLE ALL CABLES TOGETHER BY FLOOR OR ORIGINATION.
- 11. FOR EVERY CABLE PULL SPECIFIED, COIL 15' OF EXCESS CABLE AT THE STATION END FOR FUTURE USE AND 3'-0" OF EXCESS CABLE AT THE TDR END. NEATLY COIL AND SECURE CABLE ABOVE THE CEILING OR BELOW FLOOR WHERE APPLICABLE.
- 12. COORDINATE WITH ALL SUBS TO ENSURE THAT ALL CABLES ARE PROTECTED FROM ANY DIRECT PAINT OR INCIDENTAL OVERSPRAY.

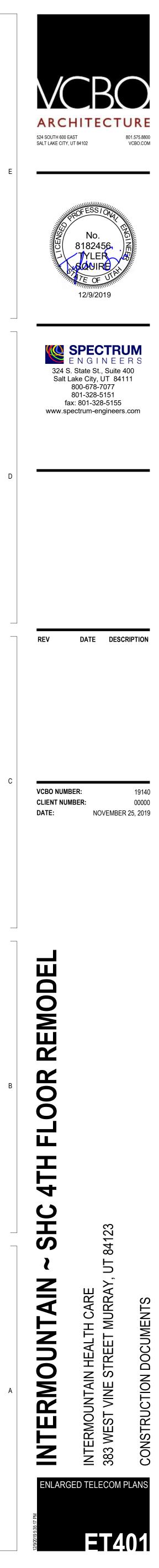


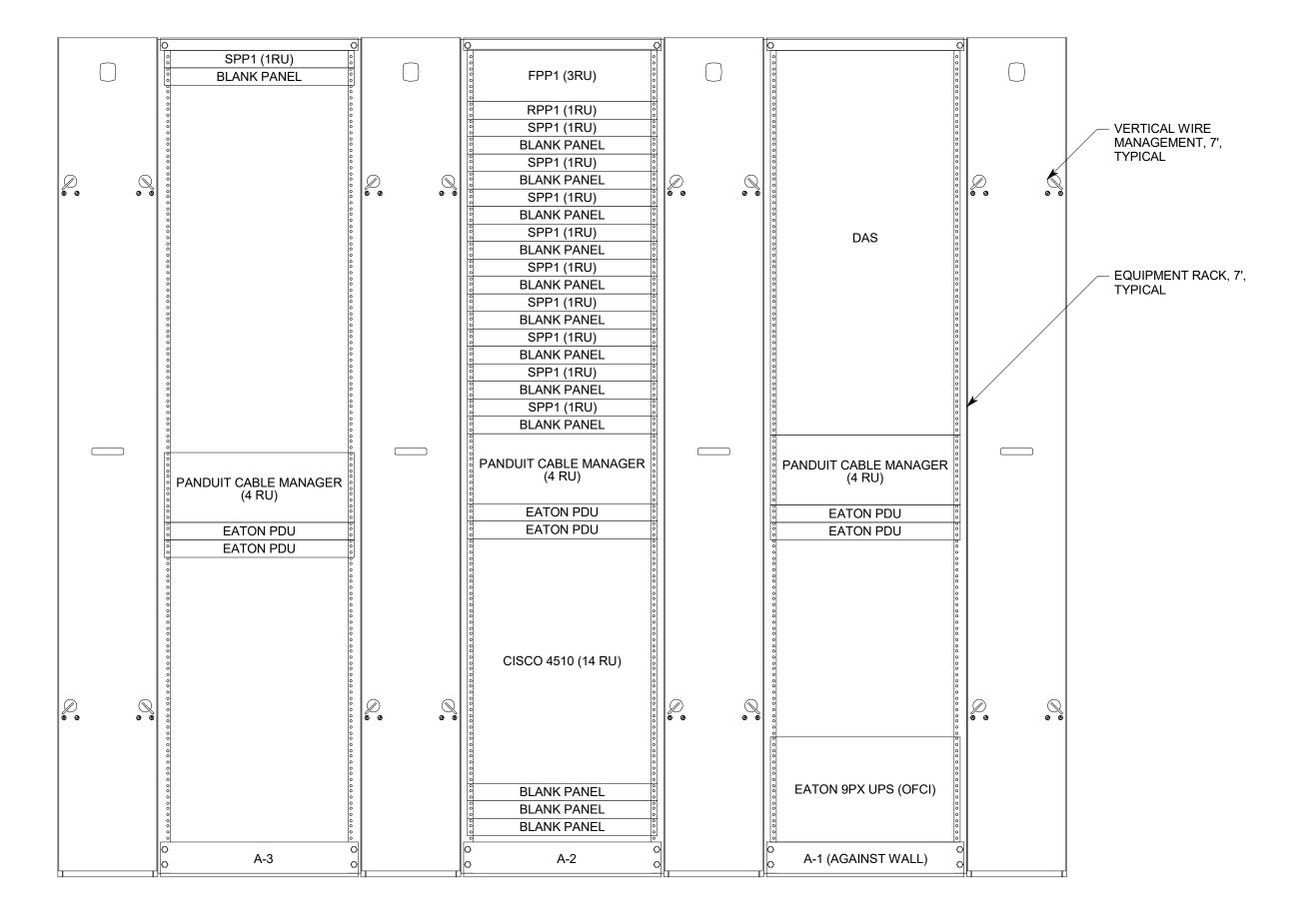




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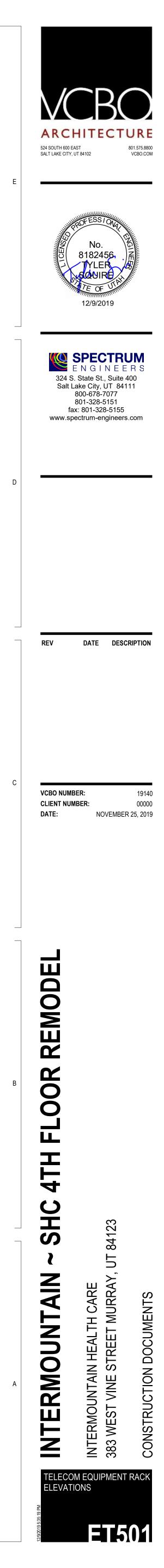




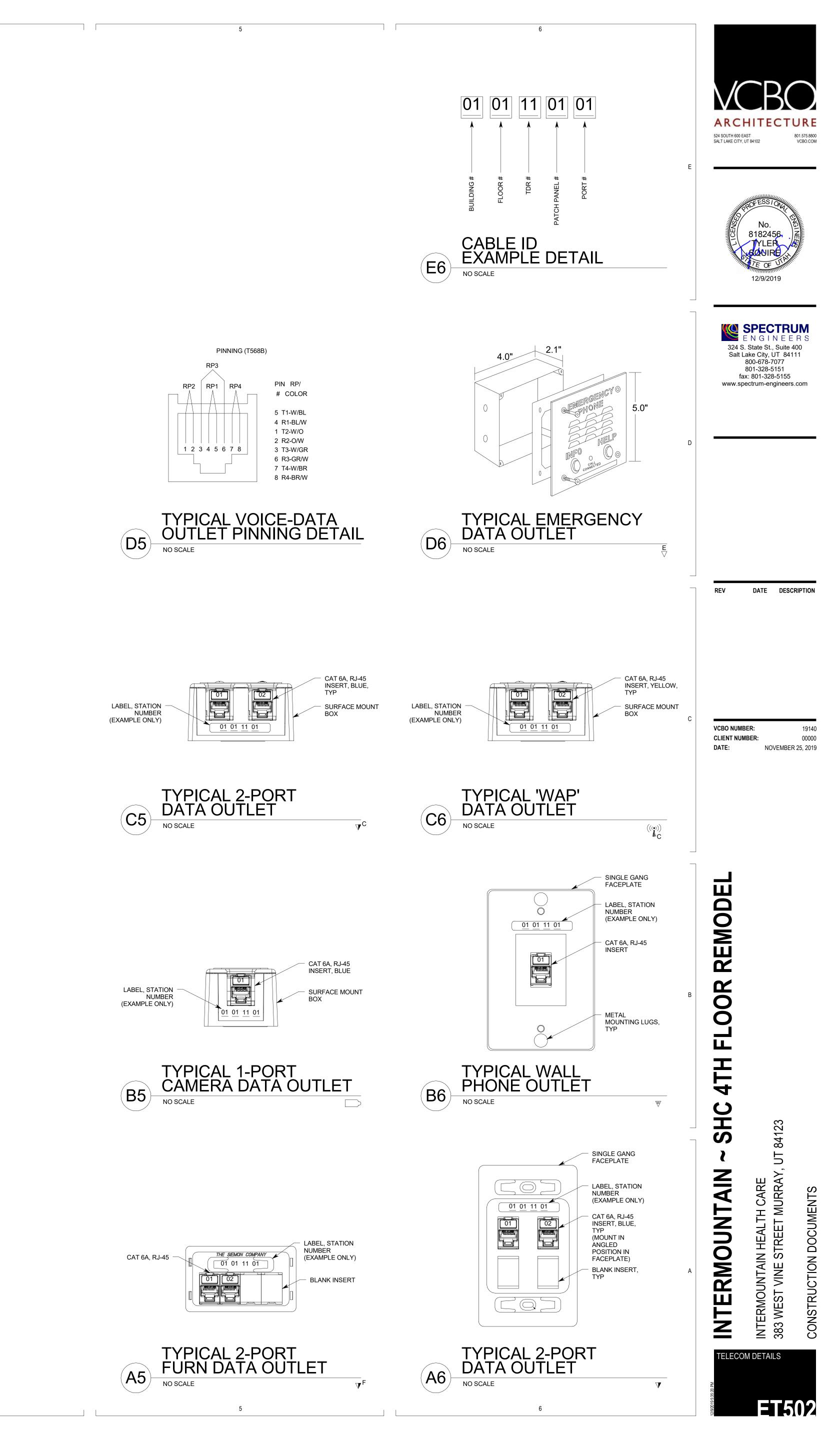
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DATA DEVICE DROP SCHEDULE - IT 433						
	DETAIL	COMM ROOM	TOTAL BY			
DATA DEVICE TYPE	LOCATION	LOCATION	FLOOR	Num of Drops		
EVEL 04						
EILING DATA (2-DROP)	SEE DETAIL C5/ET502	IT ROOM 433	1	2		
EILING DATA CAMERA (1-DROP)	SEE DETAIL B5/ET502	IT ROOM 433	7	7		
EILING WIRELESS ACCESS POINT 2-DROP)	SEE DETAIL C6/ET502	IT ROOM 433	11	22		
LOOR DATA (2-DROP)	SEE DETAIL A6/ET502	IT ROOM 433	12	24		
URNITURE DATA (2-DROP)	SEE DETAIL A5/ET502	IT ROOM 433	129	258		
/ALL DATA (2-DROP)	SEE DETAIL A6/ET502	IT ROOM 433	55	110		
ALL DATA - ABOVE COUNTER (2-DROP)	SEE DETAIL A6/ET502	IT ROOM 433	9	18		
/ALL DATA - EMERGENCY (1-DROP)	SEE DETAIL D6/ET502	IT ROOM 433	1	1		
rand total			225	442		

A4 TELECOM RACK ELEVEVATION DETAIL, LEVEL 4, IT 433



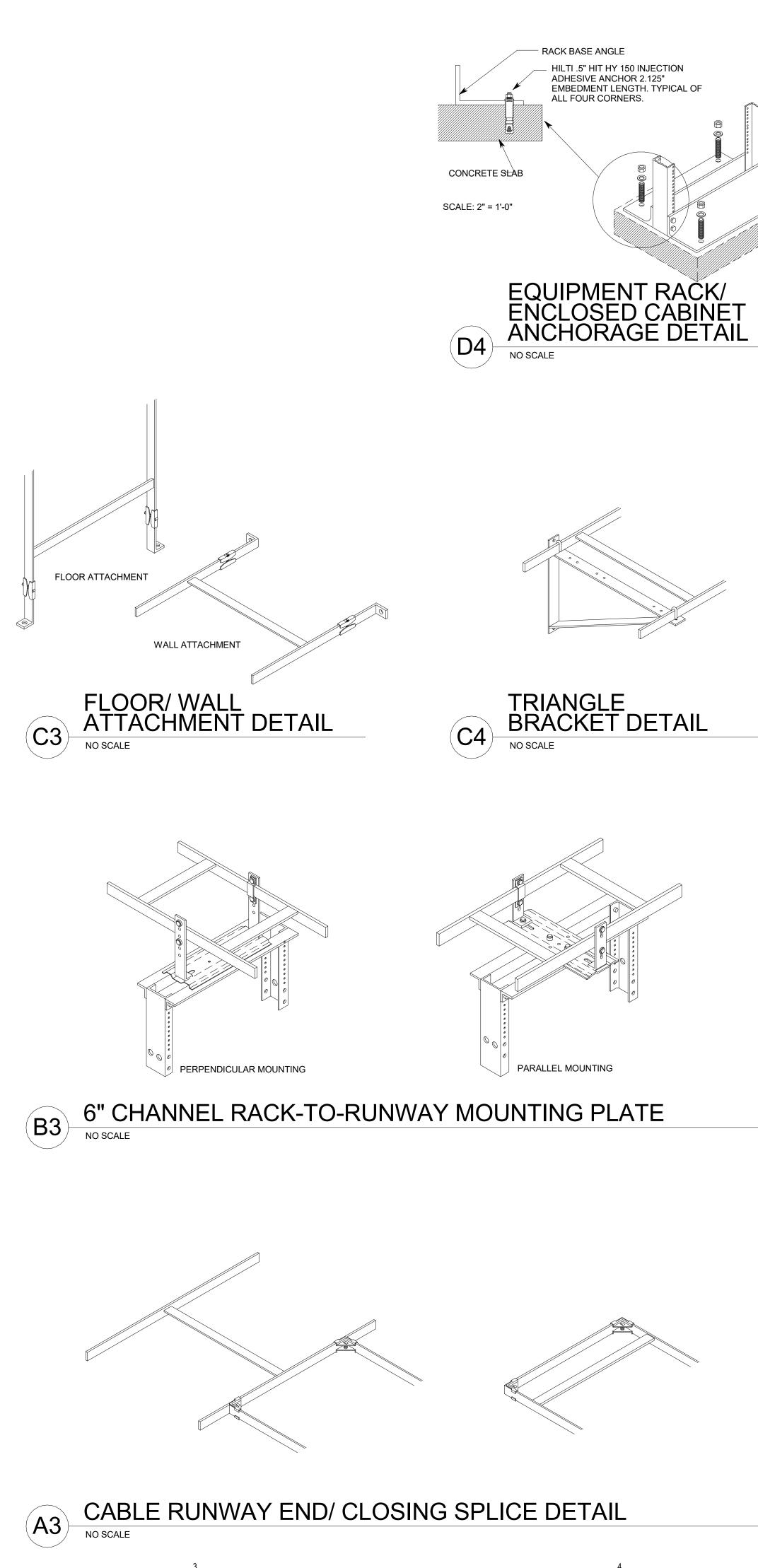
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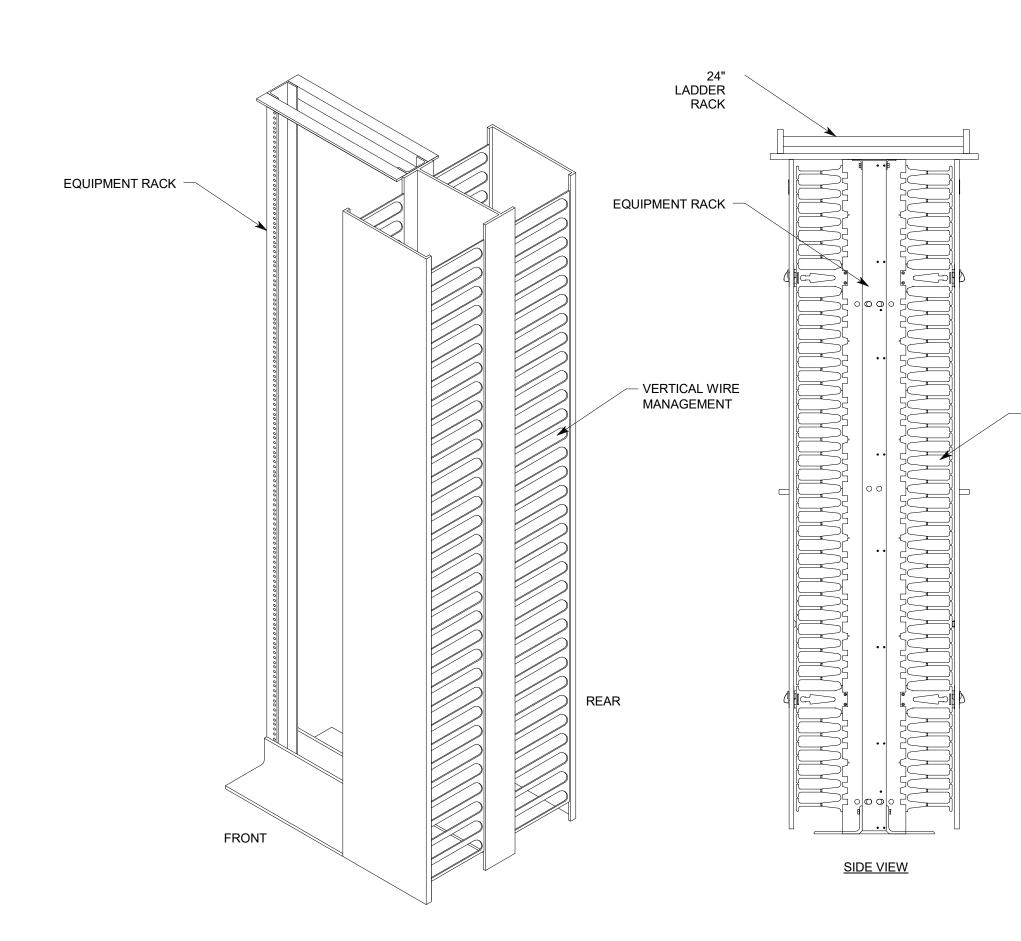
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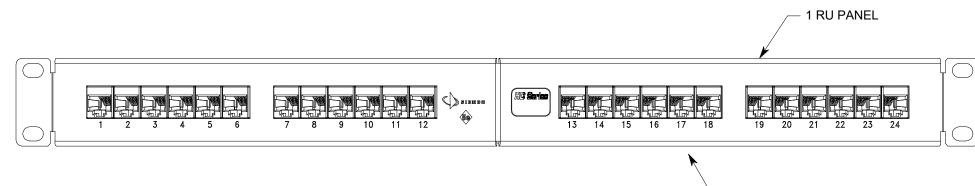
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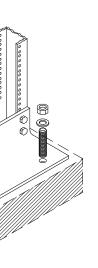


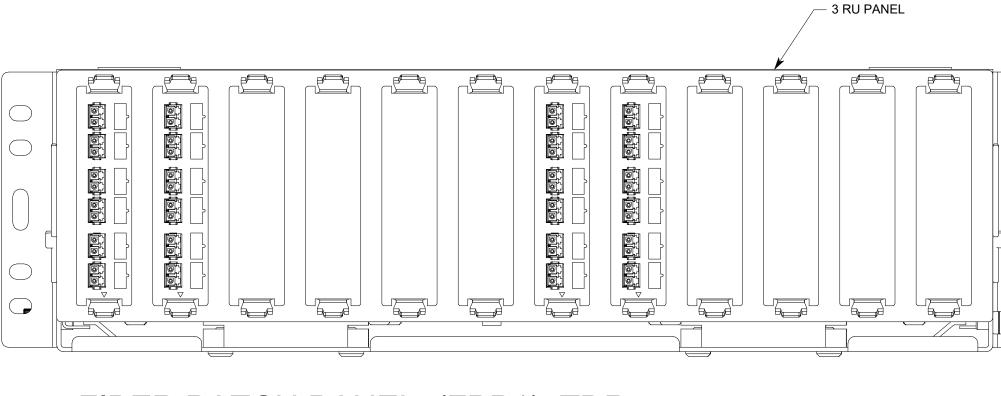






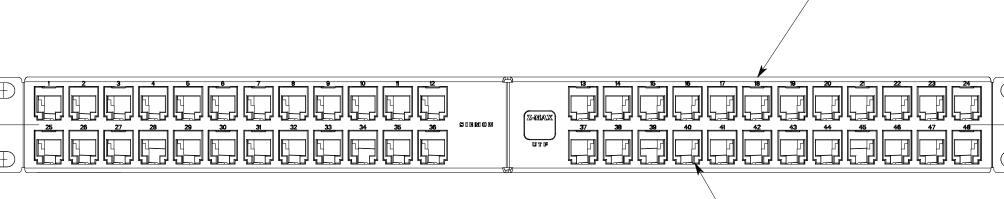
D5 FIBER PATCH PANEL, (FPP1), TDR NO SCALE





E5 STATION PATCH PANEL, (SPP1), TDR

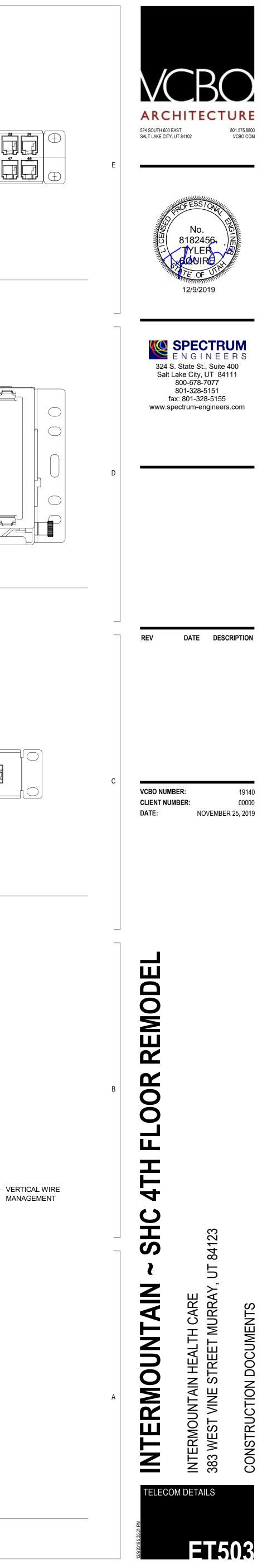
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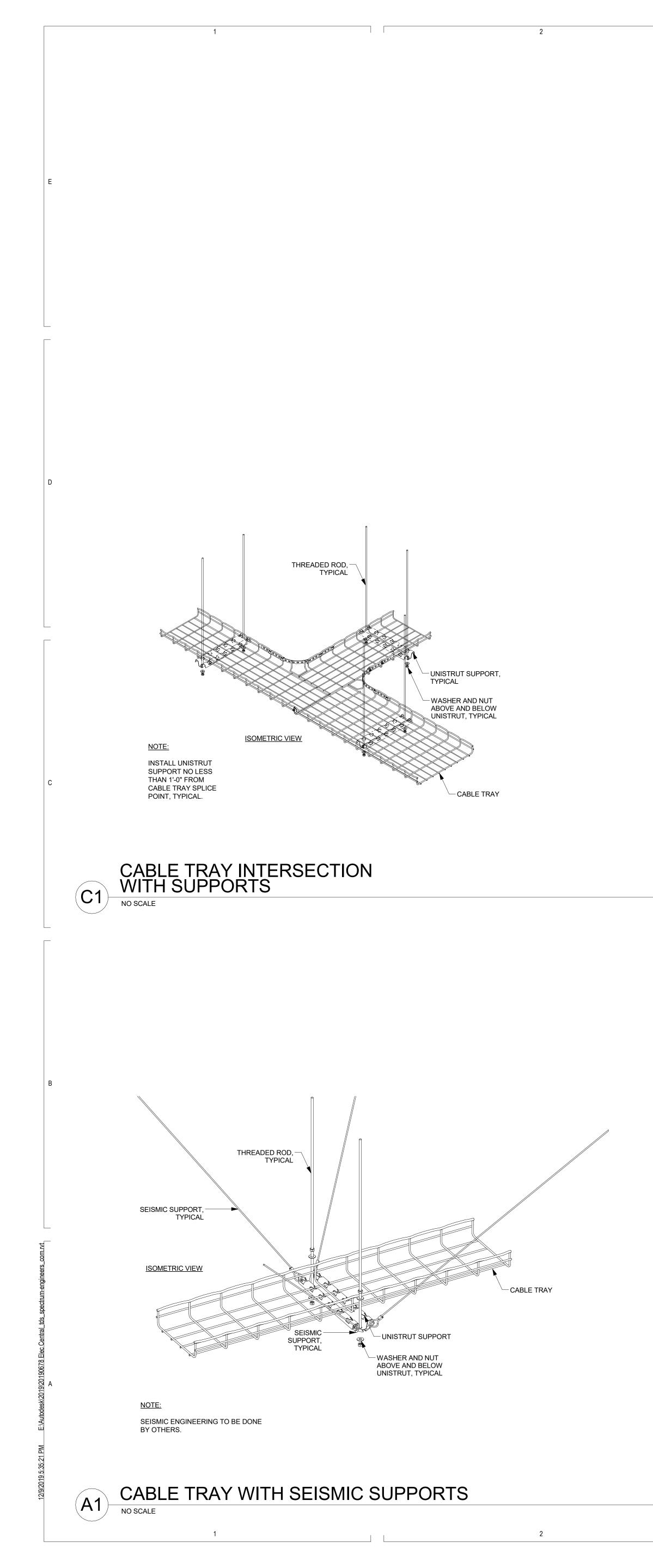


– 1 RU PANEL

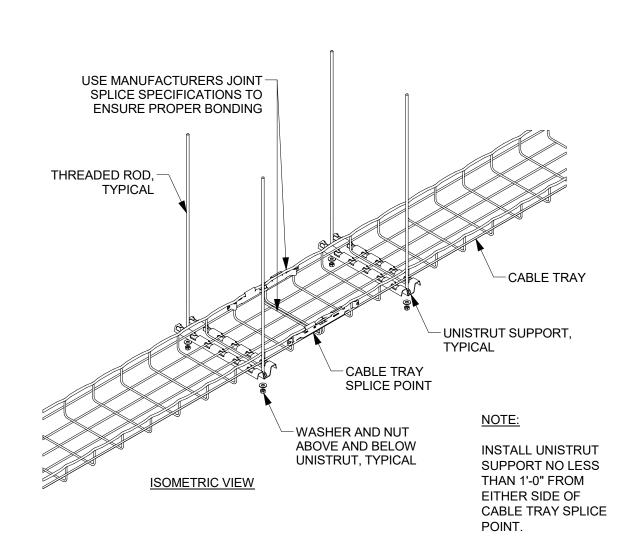
└── CAT 6A JACKS, TYPICAL

– CAT 5E JACKS, TYPICAL

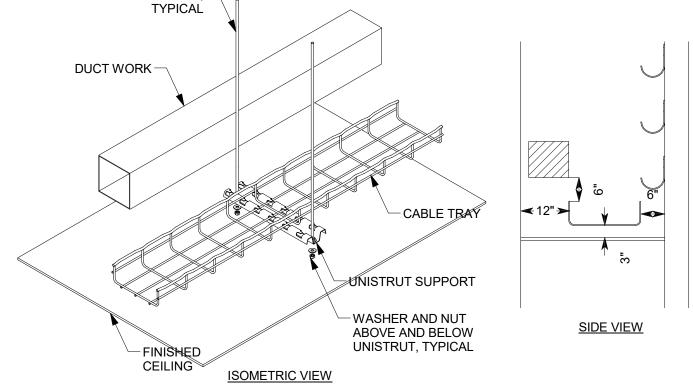


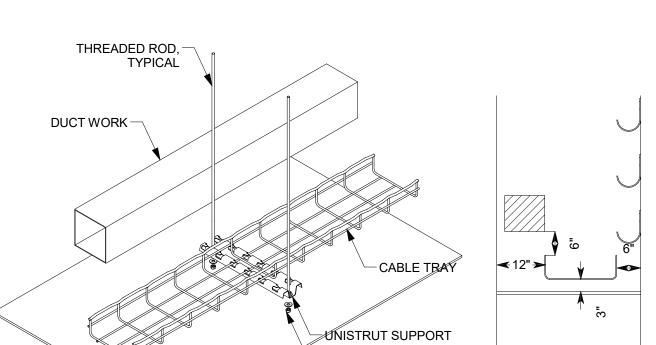


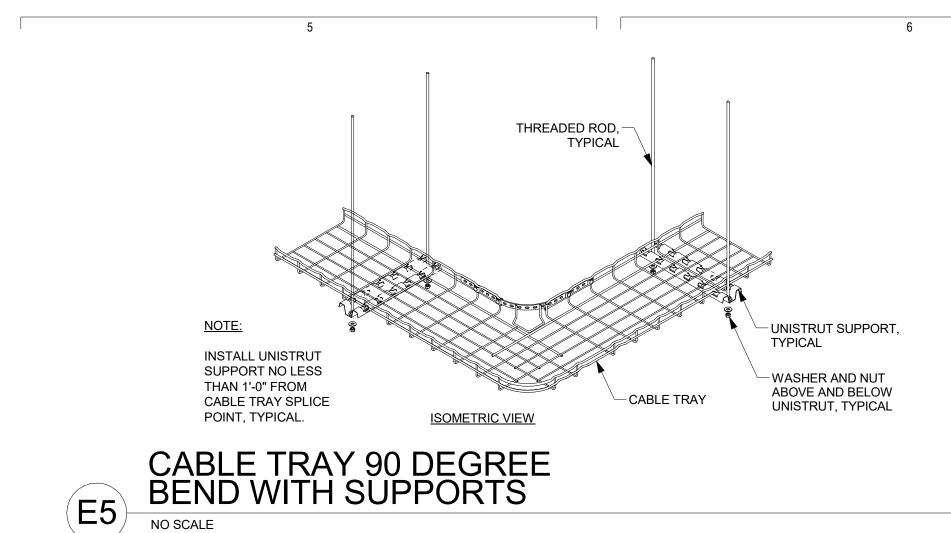


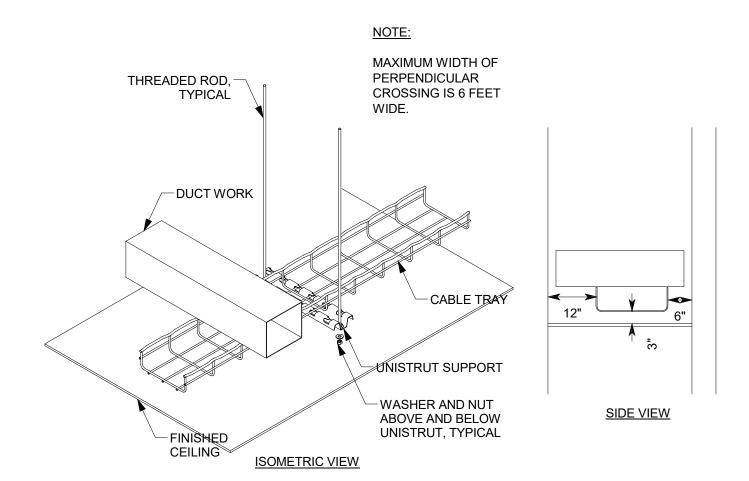




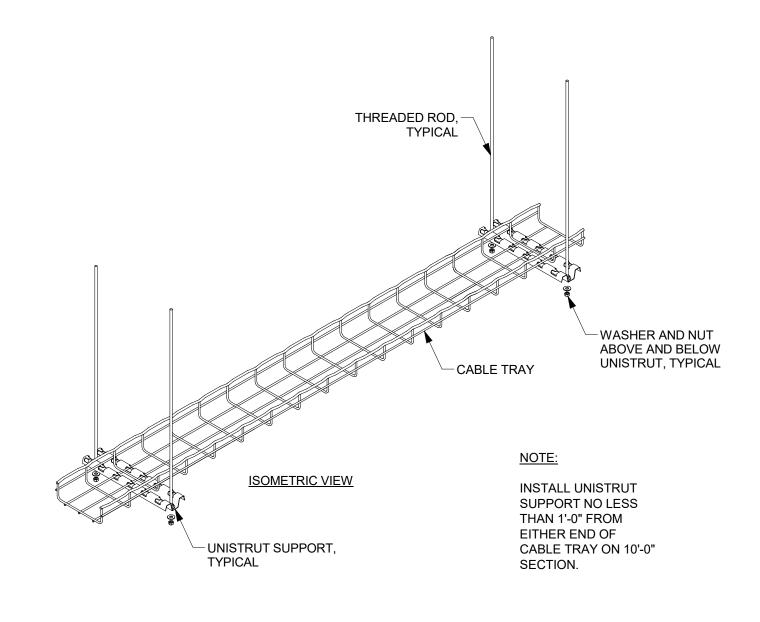




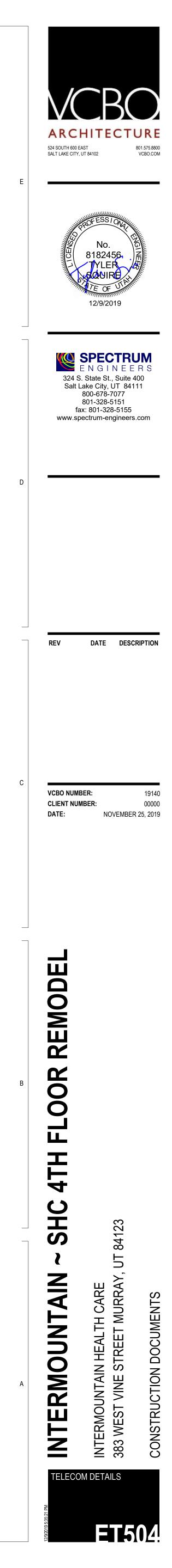


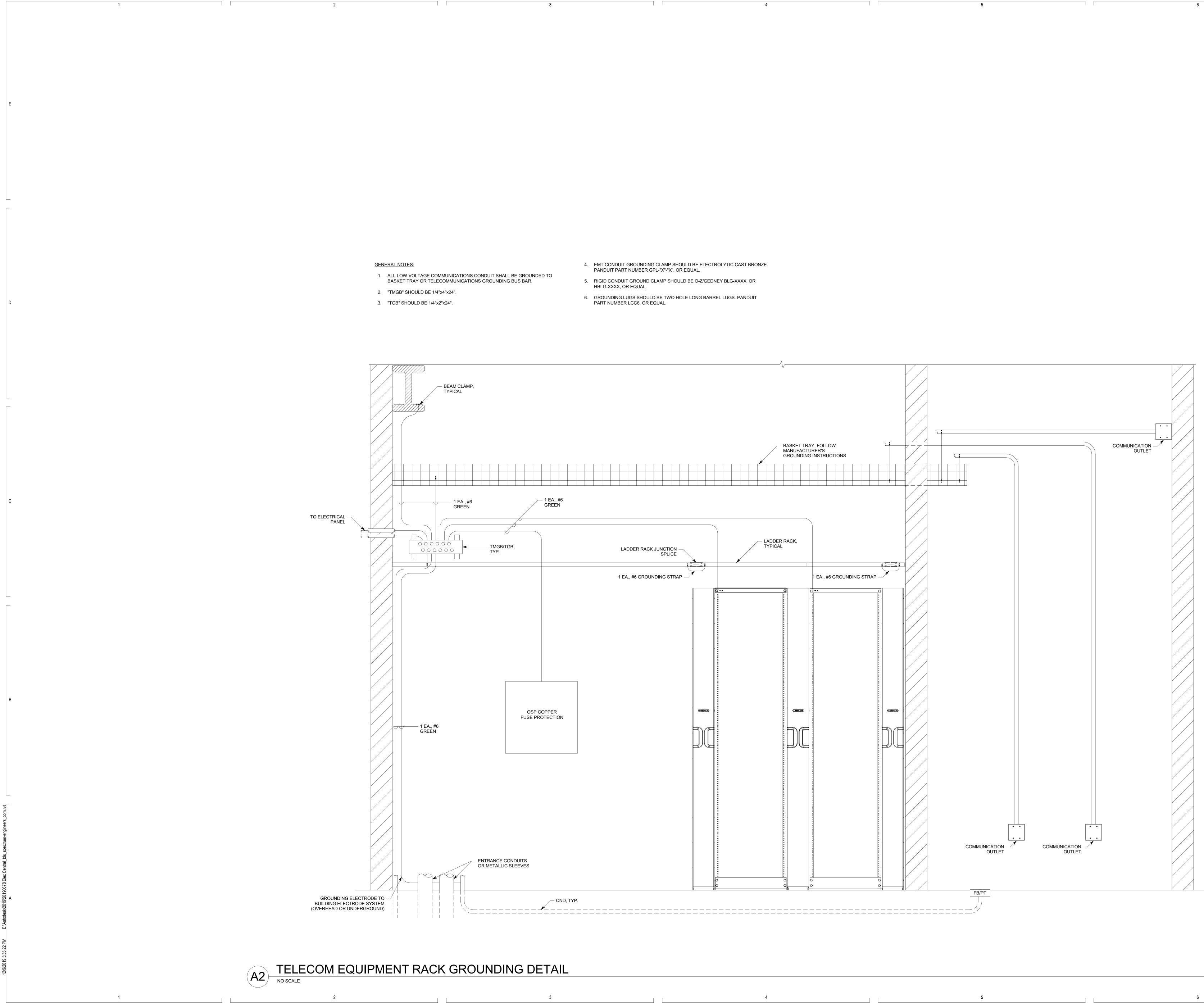


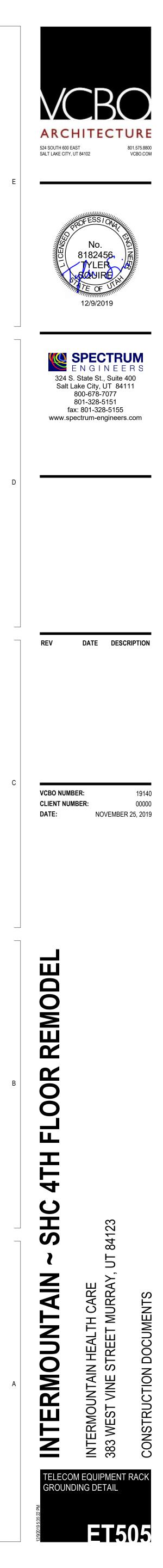


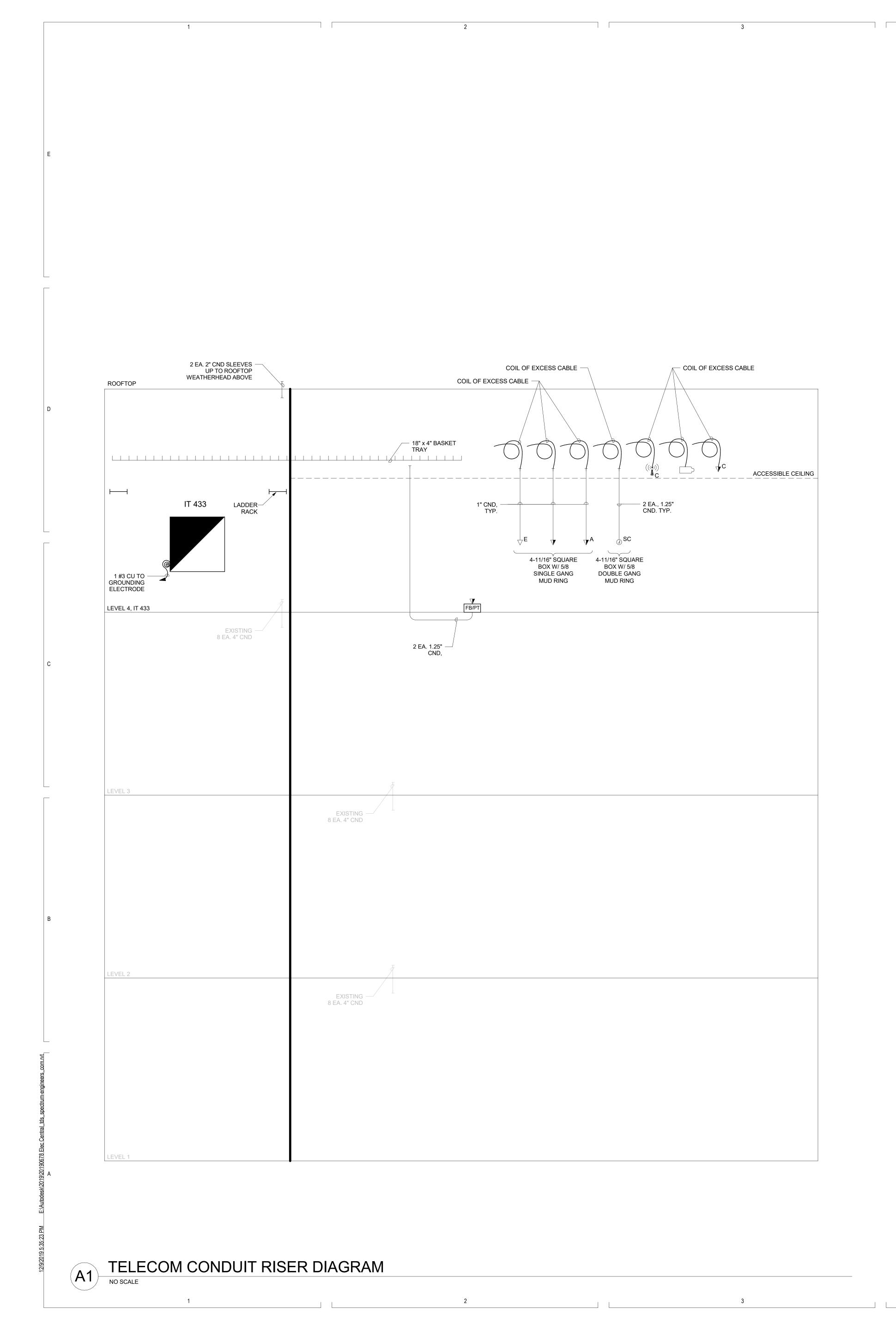


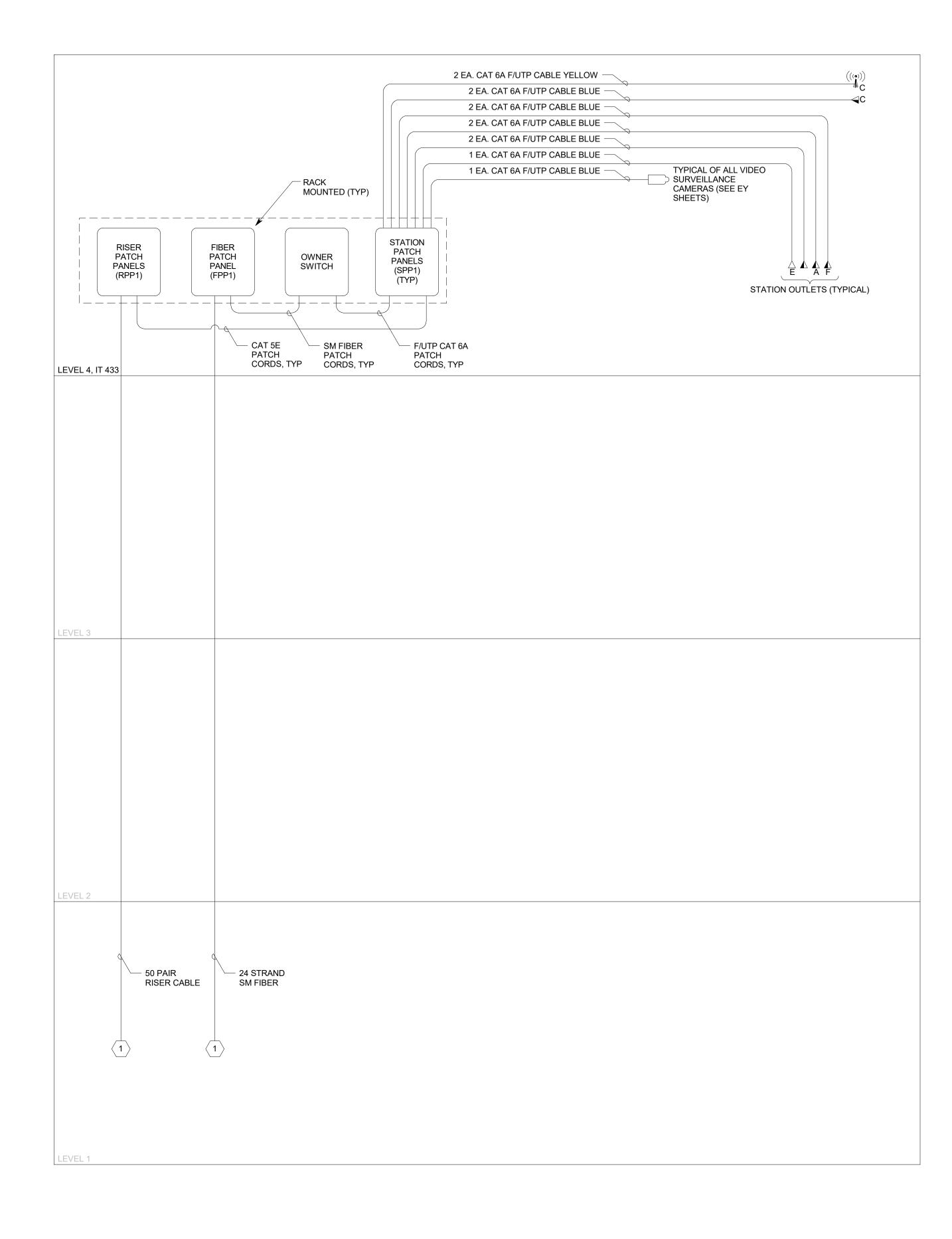






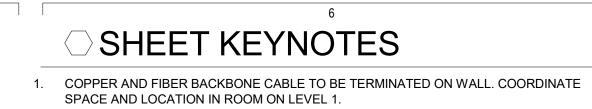


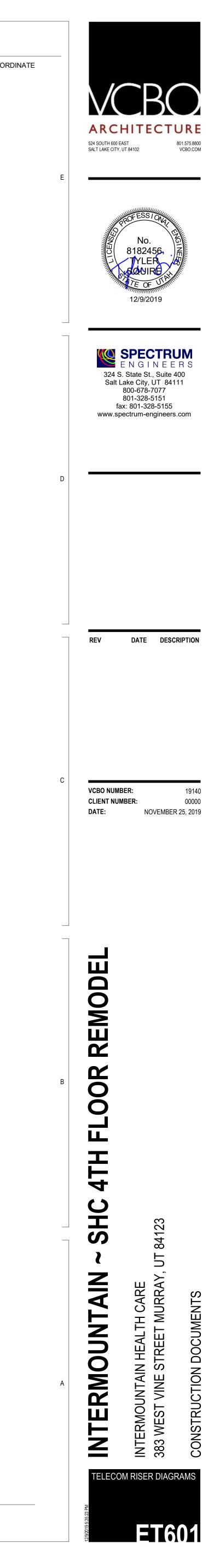












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SECURITY SHEET INDEX EY001 SECURITY COVER SHEET

- 3

EY104 LEVEL 04 - AUXILIARY PLAN EY601 AUXILIARY RISER DIAGRAMS

EQUIPMENT/CABLE LIST THE ITEMS INDICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERIALS". THIS LIST IDENTIFIES ITEMS OF SIGNIFICANCE USED DURING THE DESIGN OF THE CABLING INSTALLATION. WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE, FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS. ACCEPTABLE TYPES COMMSCOPE, PANDUIT, LEVITON, BELDEN DATA OUTLET, SURFACE MOUNT BOX, WHITE, 2 POSITION **#X**> COMMSCOPE, PANDUIT, LEVITON, BELDEN DATA JACK CAT 6A, BLACK - x2 COMMSCOPE, PANDUIT, LEVITON, BELDEN DATA OUTLET COMMSCOPE, PANDUIT, LEVITON, BELDEN DATA JACK CAT 6A, YELLOW

5

COMMSCOPE, PANDUIT, LEVITON, BELDEN

COMMSCOPE, PANDUIT, LEVITON, BELDEN

SYMBOL ITEM DESCRIPTION DATA OUTLET DATA JACK CAT 6A, YELLOW

4

GENERAL PROJECT NOTES

- UNLESS OTHERWISE NOTED, INSTALL ALL CABLE INSIDE RACEWAY SYSTEMS. WHERE RACEWAY SYSTEMS HAVE NOT BEEN PROVIDED OR SPECIFIED, INSTALL CABLE THROUGH THE SPECIFIED "CADDY" CLIPS AT THE MINIMUM INTERVALS IDENTIFIED IN THE SPECIFICATIONS. SUPPORT "CADDY" CLIPS DIRECTLY FROM THE BUILDING STRUCTURE, NOT FROM OTHER BUILDING SYSTEM SUPPORT WIRES OR CABLE.
- 2. PROVIDE PLENUM RATED CABLE FOR ALL SPECIFIED CABLE. LABEL ALL CABLE INSTALLED UNDER THIS CONTRACT REGARDLESS OF LENGTH.

ACCORDING TO WRITTEN SPECIFICATION.

- 4. THE EQUIPMENT LABELING IDENTIFIED ON DETAILS IN THESE DRAWINGS ARE EXAMPLES ONLY OF THE ACTUAL LABELING WHICH IS REQUIRED AS PART OF THIS CONTRACT. PRIOR TO FABRICATION, SUBMIT THE NOMENCLATURE FOR ALL LABELS TO THE OWNER FOR REVIEW. THIS REQUIREMENT INCLUDES BUT IS NOT LIMITED TO ALL CABLE LABELING, AND ALL EQUIPMENT LABELING.
- 5. GROUND ALL EQUIPMENT RACKS LADDER RACK, AND EQUIPMENT INSTALLED UNDER THIS CONTRACT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WRITTEN SPECIFICATION.
- 6. PROVIDE THE QUANTITY OF PATCH PANELS REQUIRED +20% FOR THE TOTAL CABLES SHOWN ON FLOOR PLANS FOR THE PARTICULAR LEVEL.
- 7. COORDINATE WITH OWNER I.T. PERSONNEL ON RACK PATCH PANEL DENSITY PRIOR TO ANY CABLE TERMINATION.
- 8. FOR EVERY CABLE PULL SPECIFIED, COIL 10" OF EXCESS CABLE AT THE STATION END FOR FUTURE USE. NEATLY COIL AND SECURITY CABLE ABOVE CEILING OR BELOW THE FLOOR, WHERE APPLICABLE.
- 9. COORDINATE WITH ALL SUBS TO ENSURE THAT ALL CABLE SHALL BE PROTECTED FROM ANY DIRECT PAINT OR INCIDENTAL OVERSPRAY. 10. FACEPLATE COLOR WILL BE DETERMINED BY THE ARCHITECT AND OWNER. FACEPLATE COLOR SHOULD MATCH ELECTRICAL FACEPLATE COLOR, UNLESS

ABBREVIATIONS

NOTE: ALL ABBREVIATIONS MAY NOT BE USED.

А	-	AUGMENTED
CAT	-	CATEGORY
E	-	ENHANCED
EA	-	EACH
ER	-	EQUIPMENT ROOM
FPP	-	FIBER PATCH PANEL
GIG	-	GIGA HERTZ
HWM	-	HORIZONTAL WIRE MANAGEMENT
NIC	-	NOT IN CONTRACT
OE	-	OWNER ELECTRONICS
PNM	-	PLENUM
PR	-	PAIR
PS	-	POWER SUPPLY
RPP	-	RISER PATCH PANEL
SPP	-	TYPE S PATCH PANEL
TR	-	TELECOMMUNICATIONS ROOM
TYP	-	TYPICAL

VWM - VERTICLE WIRE MANAGEMENT

OTHERWISE NOTED.

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED. INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE

CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED. DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED",

"SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES. APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND

REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS. FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE

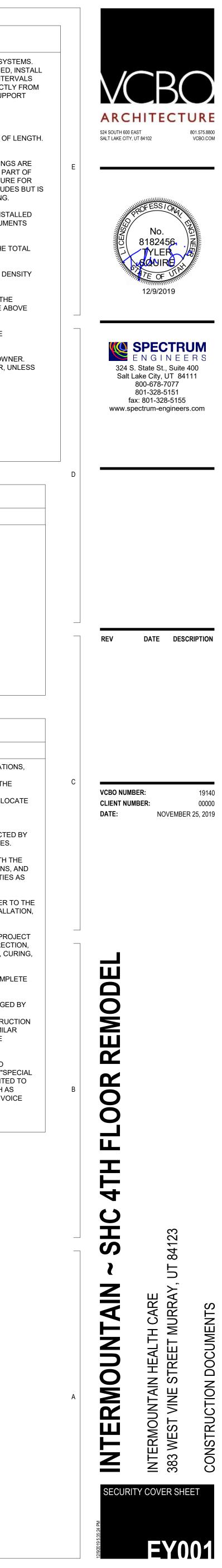
PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS." INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT

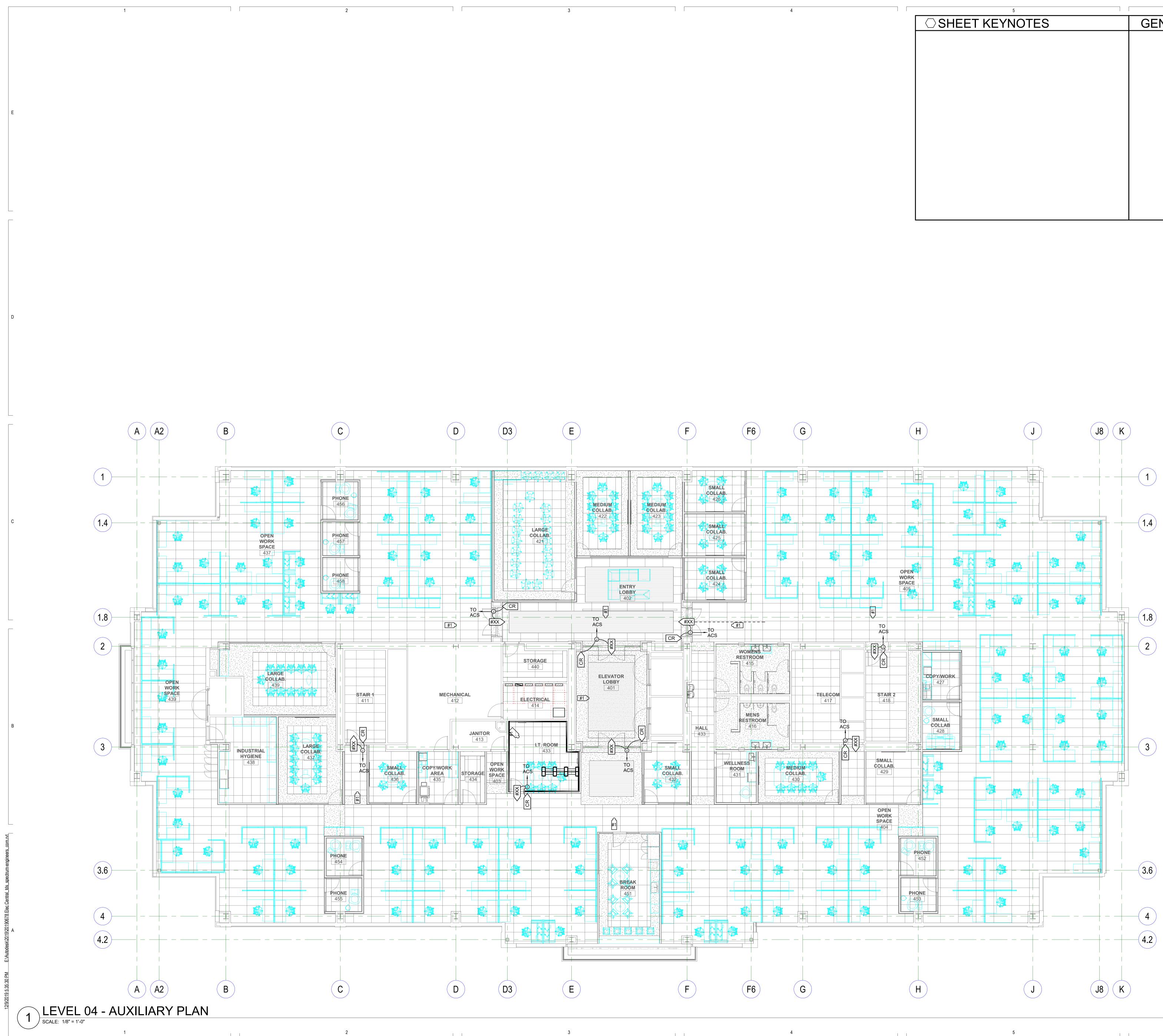
SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

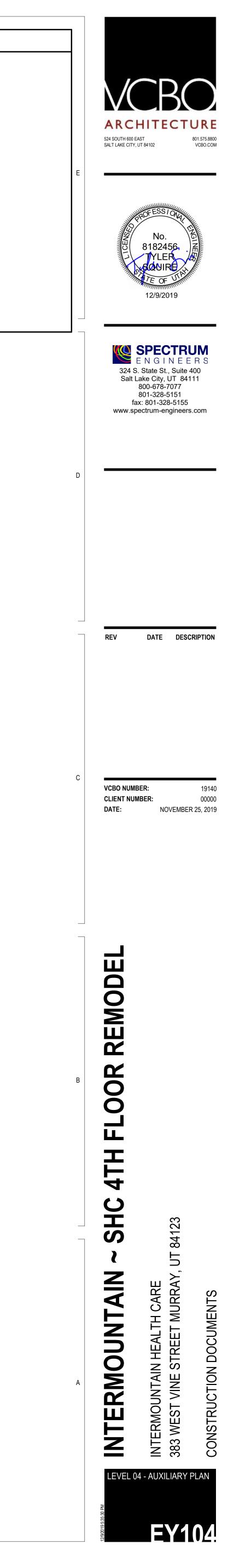
INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.

ELECTRONIC SYSTEMS: THE TERM "ELECTRONIC SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...





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	GENERAL SHEET NOTES



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			1. PR DO LO
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			3. CO EX AC
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			AN RE
			5. DC CA LO
			^{6.} ELI TR AN CC
			ABBF
			DBL = DIR = HDWR = C =
			4SQ = W/ = 1G =
			PWR = ACC = OCC =
D			TYP = L/PS = CR =
			CI = EPT = ES =
			ED = ML = KS =
			ACS = EL = MD = TLC =
			ELC = IDS = ADA =
			REX = FA = OFP =
			A/R = EED = AEL =
			FH = DH = EH =
			LA = CNT = HO =
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NOTES

PROVIDE RACEWAY AND EQUIPMENT AS INDICATED FOR CARD ACCESS DOOR TYPE INDICATED. REFER TO SECTION 281300 AND CARD ACCESS LOCK CONTROL DETAILS FOR ADDITIONAL REQUIREMENTS.

3

PROVIDE CONCEALED .75" C TYPICAL FOR LINES SHOWN TO DEVICE BOXES ON PROTECTED SIDE AND UNPROTECTED SIDE ELEVATIONS.

CONFIRM CORRECT CARD ACCESS DOOR RACEWAY, LOCK VOLTAGE, AND EXIT SWITCH CURRENT RATING (2 AMPS MIN.) WITH DIV. 8 FURNISHED CARD ACCESS DOOR HARDWARE PER DIV. 8 DOOR HARDWARE SPECIFICATIONS.

LOCATE CARD READER BOX AS INDICATED ON FLOOR PLANS. RACEWAY AND BOXES BY DIV. 26. REFER TO 281300 FOR CARD ACCESS SYSTEM REQUIREMENTS.

DOUBLE 4SQ J-BOX ON PROTECTED SIDE OF DOORWAY (SIDE OPPOSITE OF CARD READER) ABOVE ACCESSIBLE CEILING OR IN OTHER ACCESSIBLE LOCATION. PROVIDE COVER FOR J-BOX.

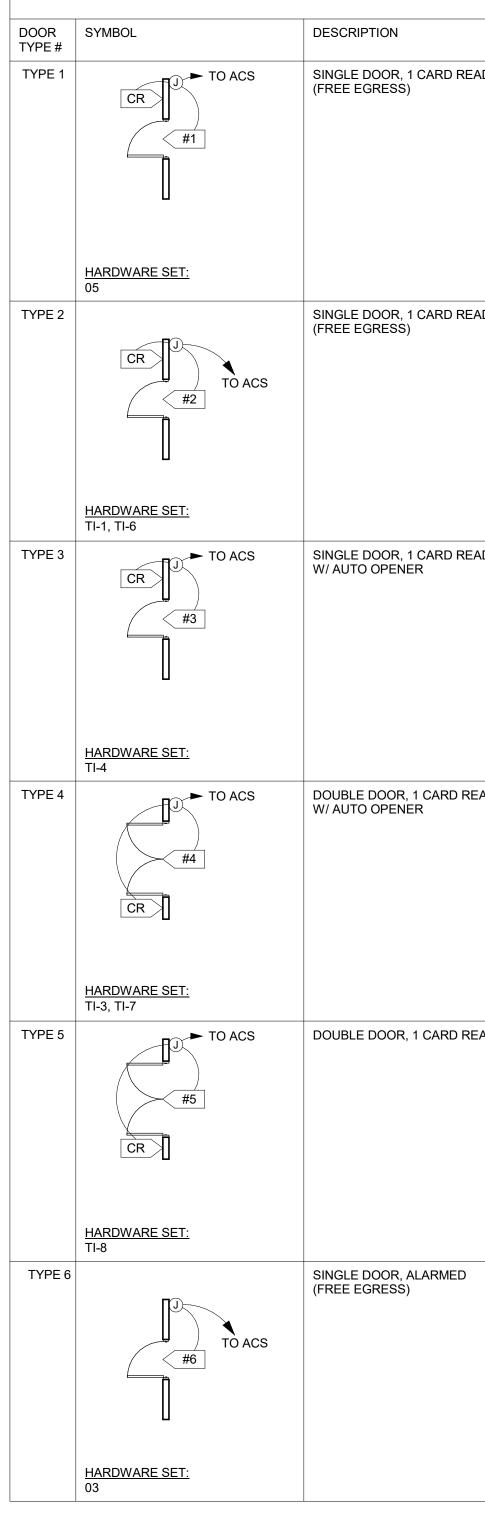
ELECTRIC LOCKING HARDWARE (MAG LOCKS, ELECTRIC STRIKES, POWER TRANSFER HINGES, ETC.) BY DIV 8. REVIEW DOOR HARDWARE FURNISHED AND VERIFY LOCK VOLTAGES AND OPERATIONAL FUNCTIONALITY OF LOCKS. CONTACT ENGINEER WITH QUESTIONS OR CONCERNS.

BREVIATIONS

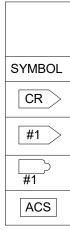
= DOUBLE = DIRECTION R = HARDWARE CONDUIT = FOUR SQUARE = WITH = 1 GANG = POWER = ACCESSIBLE = OCCUPANCY = TYPICAL = LOCK POWER SUPPLY = CARD READER = DOOR CONTACT INDICATOR ELECTRIC POWER TRANSFER ELECTRIC STRIKE = EXIT DEVICE = ELECTROMAGNETIC LOCK = KEY SWITCH = ACCESS CONTROL SYSTEM ELECTRIC LOCKSET = MOTION DETECTOR = TIME/SYSTEM LOCK CONTROL = EMERGENCY LOCK CONTROL = INTRUSION DETECTION SYSTEM AUTO DOOR OPENER = REQUEST TO EXIT = FIRE ALARM SYSTEM = OBTAIN FROM PLANS = AS REQUIRED = ELECTRIC EXIT DEVICE (SEE SECTION 87100) = ACCESS ELECTRIC LOCKSET (SEE SECTION 87100) = FRAME HARNESS = DOOR HARNESS = ELECTRIC HINGE = ELECTROLYNX ADAPTOR =

CONTROLLER ELECTROMAGNETIC HOLDER

PUSH TO EXIT BUTTON (MAGLOCK) REQUEST TO OPEN



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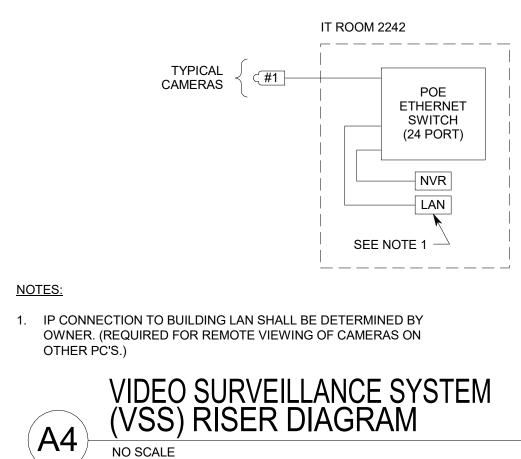


6 CAMERA SCHEDULE	

DESCRIPTION

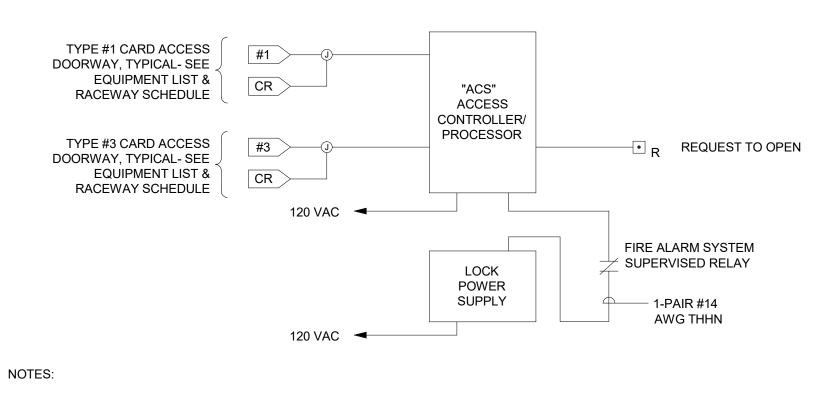
FIXED DOME, VARIFOCAL, CEILING MOUNT

AXIS MODEL # P3374



	5		6	
	CARD ACCESS DOOR 1	TYPE SCHEDULE		
	PROTECTED SIDE ELEVATION	UNPROTECTED SIDE ELEVATION	LOCK TYPE(S)	DIVISION OF WORK AND COMMENTS
EADER				SECURITY CONTRACTOR
	4SQ J-BOX ABOVE ACC CEILING .75" C CONTACT INDICATOR 1G BOX IN FRAME	4SQ J-BOX ABOVE ACC CEILING CARD READER 4SQ BOX W/ 1G RING	W/LOCKSET	 CR, L/PS, CI, MD <u>HARDWARE CONTRACTOR</u> ES <u>LOCK CONTROLLED BY:</u> CR
EADER	ELECTRIC STRIKE MORTISE LOCK	4SQ J-BOX ABOVE ACC CEILING CEILING CARD READER 4SQ BOX W/ 1G	ELECTRIC EXIT DEVICE	SECURITY CONTRACTOR • CR, L/PS, CI HARDWARE CONTRACTO • EED, EPT LOCK CONTROLLED BY: • CR, FA
EADER	ELECTRIC POWER TRANSFER 1G BOX IN FRAME	4SQ J-BOX	ELECTRIC STRIKE WITH EXIT DEVICE	SECURITY CONTRACTOR • CR, L/PS, CI HARDWARE CONTRACTOR
	ELECTRIC LOCKSET	ABOVE ACC CEILING CARD READER 4SQ BOX W/ 1G RING		FH, EL <u>LOCK CONTROLLED BY:</u> CR
READER	POWER TRANSFER 1G BOXES IN FRAME	4SQ J-BOX ABOVE ACC CEILING .75" C (TYP) CARD READER 4SQ BOX W/ 1G RING	ELECTRIC EXIT DEVICE	SECURITY CONTRACTOR CR, CI, L/PS HARDWARE CONTRACTOR EED, EPT LOCK CONTROLLED BY: CR, ADA, RTO, TLC
READER	.75" C 4SQ J-BOX ABOVE ACC CEILING CONTACT INDICATORS 1G BOX IN FRAME POWER TRANSFER 1G BOX IN FRAME (EGRESS SIDE) ELECTRIC LOCKSET	4SQ J-BOX ABOVE ACC CEILING CEILING CARD READER 4SQ BOX W/ 1G RING	ELECTRIC LOCKSET	SECURITY CONTRACTOR CR, CI, L/PS HARDWARE CONTRACTOR EL, EPT LOCK CONTROLLED BY: CR
	4SQ J-BOX ABOVE ACC CEILING ELECTRIC ELECTRIC ELECTRIC EXIT DEVICE .75" C (TYP) CONTACT INDICATOR 1G BOX IN FRAME ELECTRIC POWER TRANSFER 1G BOX IN FRAME	4SQ J-BOX ABOVE ACC CEILING	ELECTRIC EXIT DEVICE	SECURITY CONTRACTOR • L/PS, CI HARDWARE CONTRACTOD • EED, EPT LOCK CONTROLLED BY: • FA
		1		

SECURITY EQUIPMENT SCHEDULE						
DESCRIPTION MOUNTING * ROUGH-IN QTY ACCEPTABLE TYPES						
CARD READER	40"	4SQ W/ 1G RING	OFP	SEE SECTION 281300		
CARD ACCESS DOOR TYPE, TYPICAL. REFER TO CARD ACCESS DOOR TYPE SCHEDULE.	SEE SCHEDULE	SEE SCHEDULE	OFP	REFER TO CARD ACCESS DOOR TYPE SCHEDULE & SECTION 281300		
VSS CAMERA/ENCLOSURE TYPE, TYPICAL. REFER TO VSS CAMERA/ENCLOSURE TYPE SCHEDULE.	SEE SCHEDULE	SEE SCHEDULE	OFP	SEE VSS CAMERA/ENCLOSURE TYPE SCHEDULE		
CARD ACCESS CONTROLLERS & PWR SUPPLIES	72"	4"x4" GUTTER & STUBS A/R	A/R	SEE SECTION 281300		
* COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL ELEVATIONS BEFORE INSTALLATION.						



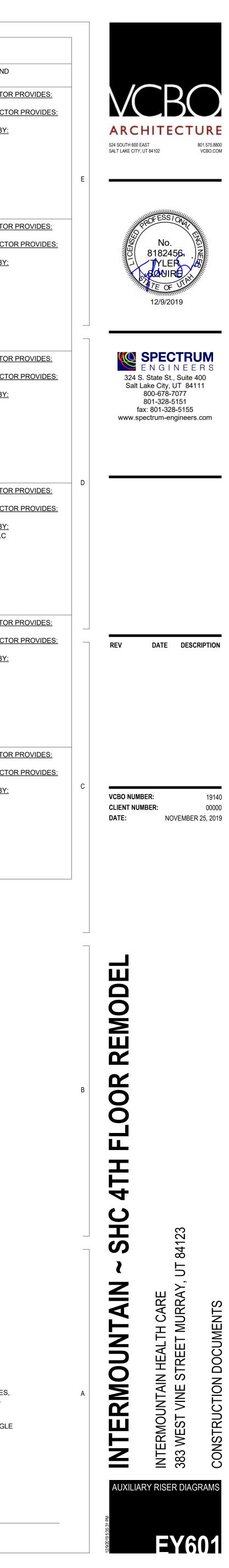
1. ACCESS CONTROL SYSTEM BASED UPON MULTIPLE CARD READERS PER ACCESS CONTROLLER/PROCESSOR. ALTERNATE CONFIGURATIONS ACCEPTABLE PROVIDED CONTRACTOR ALLOWS FOR ANY INCREASED WIRING OR EQUIPMENT AND PROVIDES SUBMITTAL DRAWINGS SHOWING NEW CONFIGURATION.

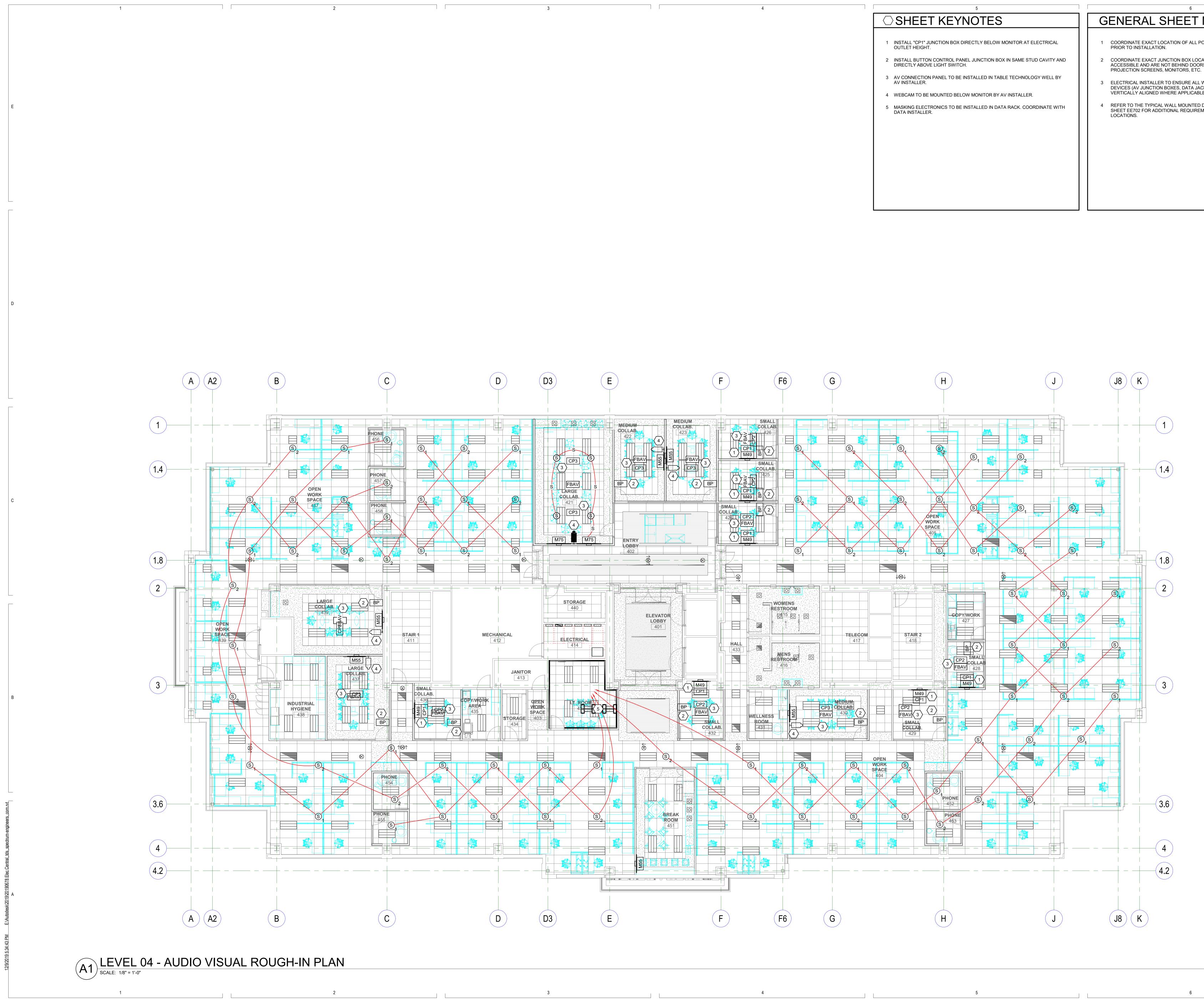
2. ACCESS CONTROLLER "ACS" INDICATED SHALL INCLUDE ANY ISOLATION MODULES, BUFFER MODULES, EXTERNAL POWER SUPPLIES, INPUT/OUTPUT MODULES, OR FORMAT CONVERTER MODULES (NOT SHOWN) REQUIRED TO SUPPORT CARD READER OR KEYPAD TYPES INDICATED, FOR COMPLETE AND FUNCTIONING CARD READER AND DOOR CONTROL.

3. PROVIDE SEPARATE WIRE PAIRS FOR REQUEST TO EXIT AND DOOR CONTACT INDICATOR, FROM ACCESS DOOR TO ACCESS CONTROLLER "ACS" PANEL. SINGLE PAIR, FROM ACCESS DOOR TO CONTROLLER PANEL, FOR REQUEST TO EXIT AND DOOR CONTACT INDICATOR, NOT ACCEPTABLE.

4. REQUEST TO EXIT AND DOOR CONTACT INDICATOR CIRCUITS SHALL BE SUPERVISED FOR OPEN CIRCUIT OR SHORT CIRCUIT FAULTS BETWEEN THE DEVICE CONTACTS AND ACCESS CONTROLLER.

(A5) ACCESS CONTROL SYSTEM (ACS) DIAGRAM

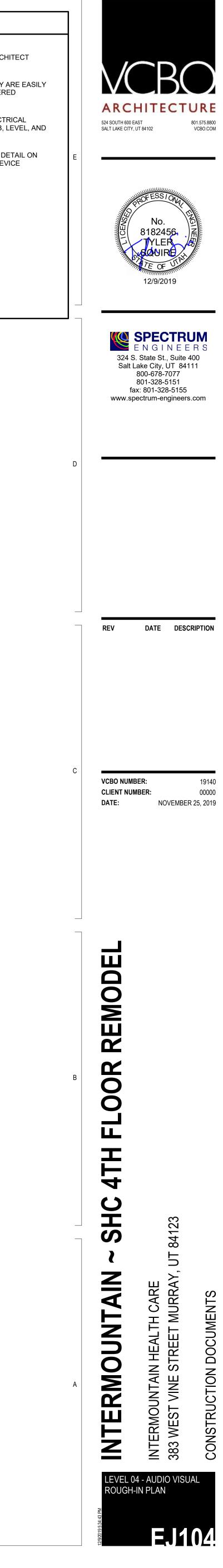




GENERAL SHEET NOTES

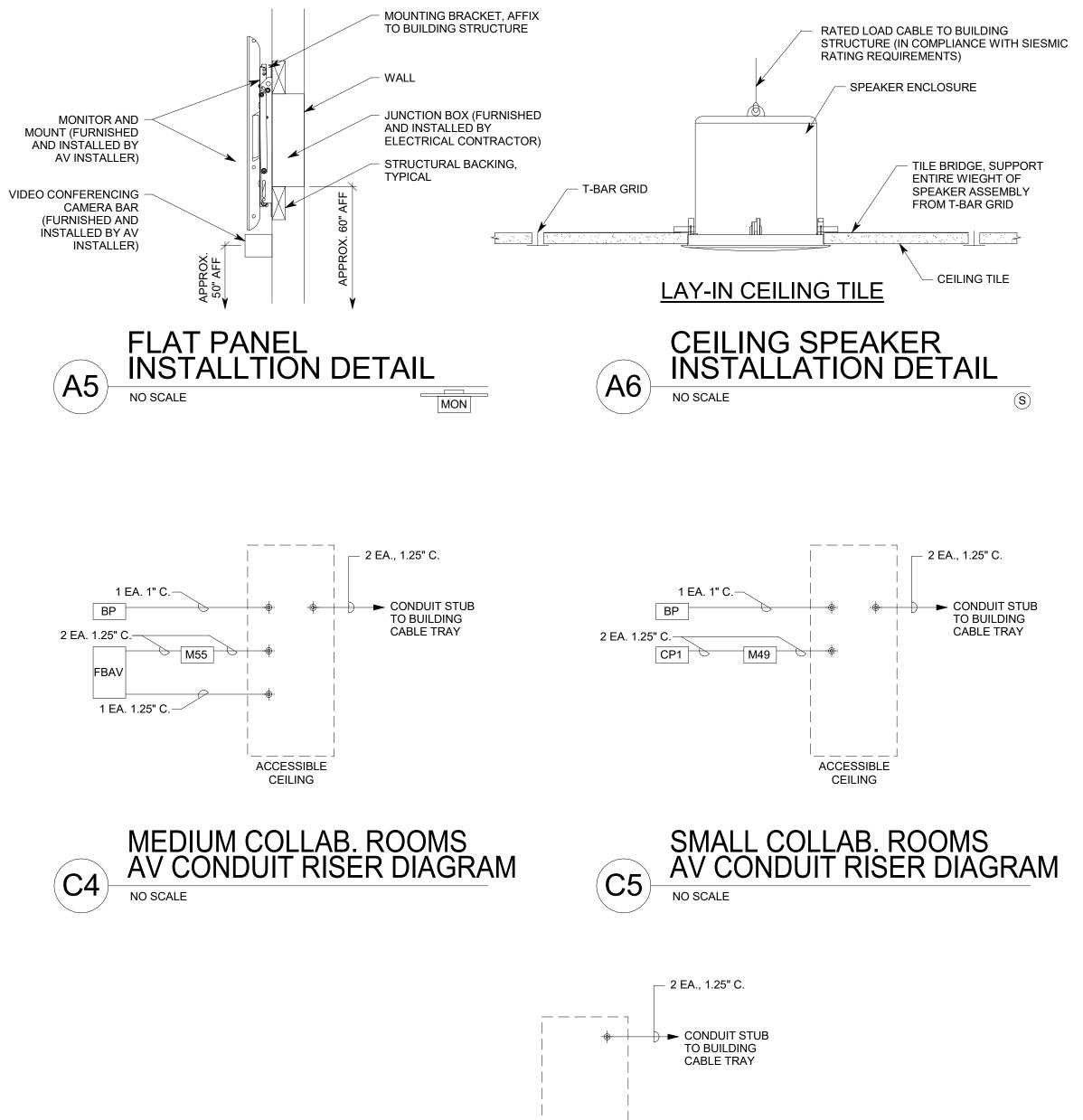
1 COORDINATE EXACT LOCATION OF ALL POKE-THRU'S WITH ARCHITECT 2 COORDINATE EXACT JUNCTION BOX LOCATIONS SO THAT THEY ARE EASILY ACCESSIBLE AND ARE NOT BEHIND DOORS, FURNITURE, LOWERED

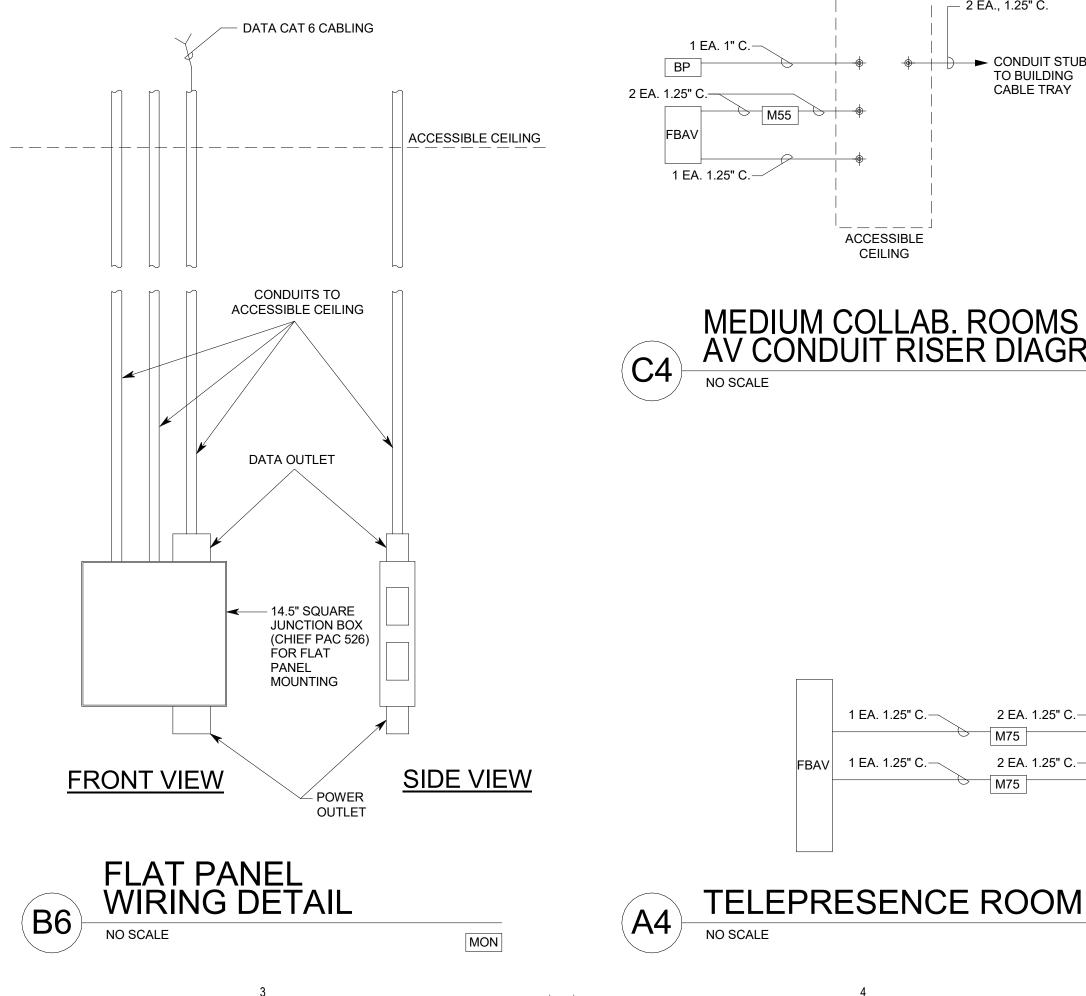
- 3 ELECTRICAL INSTALLER TO ENSURE ALL WALL MOUNTED ELECTRICAL DEVICES (AV JUNCTION BOXES, DATA JACKS, ETC.) ARE PLUMB, LEVEL, AND VERTICALLY ALIGNED WHERE APPLICABLE.
- 4 REFER TO THE TYPICAL WALL MOUNTED DEVICES ALIGNMENT DETAIL ON SHEET EE702 FOR ADDITIONAL REQUIREMENTS REGARDING DEVICE



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IO-VIDEO ROUGH-IN SYSTEMS SCHEDULE						
RIPTION	MOUNTING	SPECIAL INSTRUCTIONS				
FION BOX, 4-11/16" BOX W/ IG MUD RING, MINIMUM 3"	FLUSH IN THE WALL AT ELECTRICAL OUTLET HEIGHT, EXCEPT WHERE NOTED ON THE DRAWINGS					
TOP CONNECTION PANEL	IN TABLE	FURNISHED AND INSTALLED BY AV INSTALLER				
R BOX OR POKE-THRU	FLOOR	REFER TO 'EP' SHEETS FOR TYPE AND LOCATION				
DN CONTROL PANEL, FION BOX, 4-11/16" SQUARE V/ 2-GANG MUD RING	FLUSH IN WALL DIRECTLY ABOVE LIGHT SWITCH	ATTACH JUNCTION BOX TO SAME SIDE OF STUD AS LIGHT SWITCH				
ING SPEAKER	ABOVE CEILING	FURNISHED AND INSTALLED BY AV INSTALLER				
KER LOCATION	FLUSH IN FINISHED CEILING	SPEAKER FURNISHED AND INSTALLED BY AV INSTALLER, TRIM RING INSTALLED BY ELECTRICAL, SEE DETAIL A5/EJ501				
RA LOCATION	BELOW MONITOR	FURNISHED AND INSTALLED BY AV INSTALLER				
RA LOCATION	BELOW MONITOR	FURNISHED AND INSTALLED BY AV INSTALLER				
PANEL MONITOR JUNCTION CHIEF PAC 526FCW	FLUSH IN THE WALL AT APPROXIMATELY +60" AFF TO BOTTOM OF BOX, OR AS NOTED ON PLAN SHEETS	COORDINATE WITH STRUCTURAL BACKING, AND COORDINATE EXACT ELEVATION WITH ARCHITECTURAL ELEVATIONS, SEE DETAILS A4/EJ501 AND B5/EJ501				
IG MOUNTED MONITOR FION BOX, 4-11/16" SQUARE V/ 2-GANG MUD RING	FLUSH IN CEILING WITHIN 4" OF MONITOR MOUNT	COORDINATE EXACT LOCATION WITH AV INSTALLER, SEE DETAIL B4/EJ501				
UIT, 3/4" MINIMUM	CONCEALED BEHIND FINISHED SURFACES, UNLESS OTHERWISE NOTED	REFER TO RISER DIAGRAMS FOR EXACT SIZES & QUANTITIES.				

GENERAL SHEET NOTES

- 1. INSTALL ALL CONDUIT IN A CONCEALED FASHION. SURFACE MOUNTED CONDUIT WILL NOT BE ACCEPTED. CONDUITS AND BOXES ABOVE CEILING HEIGHT MAY BE INSTALLED EXPOSED AND PAINTED TO MATCH SURROUNDING EQUIPMENT.
- 2. MAINTAIN MAXIMUM SEPARATION BETWEEN A/V SYSTEM CONDUIT AND ALL POWER CONDUIT. MINIMUM SEPARATION REQUIREMENTS IS 24".
- 3. INSTALL NYLON PULL STRINGS IN ALL A/V SYSTEM CONDUIT.
- 4. INSTALL ALL EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS, SEISMIC CODES, AND INDUSTRY WIDE ACCEPTED RIGGING PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM STRUCTURE. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.
- 5. IF THE BOXES, ENCLOSURES, & CABINETS SPECIFIED ARE NOT PROVIDED FROM THE MANUFACTURER WITH THE REQUIRED KNOCK OUTS FOR THE SPECIFIED CONDUIT, FIELD CUT ALL REQUIRED KNOCK OUTS TO TERMINATE THE QUANTITY AND SIZES OF THE SPECIFIED CONDUITS.
- 6. THE ROUGH-IN LOCATIONS FOR PROJECTORS SHOWN ON THE FLOOR PLAN DRAWINGS ARE APPROXIMATE. COORDINATE WITH AV CONTRACTOR FOR ACTUAL PROJECTION DISTANCES. LOCATE ROUGH-IN FOR PROJECTORS IN COMPLIANCE WITH THE DISPLAY DEVICE SCHEDULE.
- ALL ROUGH-IN SHALL BE IN COMPLIANCE WITH ANSI/TIA/EIA 569-B WHICH INCLUDES, BUT IS NOT LIMITED TO, ALL CONDUITS HAVING NO MORE THAN TWO 90 DEGREE BENDS.
- ALL CONDUIT FOR AV ROUGH-IN SHALL BE EMT.
 ALL CONNECTION PANELS SHALL BE WITHIN 12" OF POWER AND DATA OUTLETS. NOTIFY ENGINEER IF DISCREPANCY IS FOUND.
- ALL AV CONDUITS SHALL BE INSTALLED USING SHORTEST RUNS POSSIBLE. THERE SHOULD BE NO UNNECESSARY BENDS IN CONDUIT RUNS.
 CONDUITS AND UNICATION OF A STREET OF A S
- CONDUITS AND JUNCTION BOXES SHOWN NO RISER DIAGRAMS ARE TYPICAL FOR EACH DEVICE IN ROOM.
 CONTENT
- 12. COVER ALL JUNCTION BOXES WITH A BLANK NYLON COVER PLATE.

DEFINITIONS

NOTE: ALL DEFINITIONS MAY NOT BE USED.

INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.

DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.

APPROVE: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.

FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."

INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."

PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."

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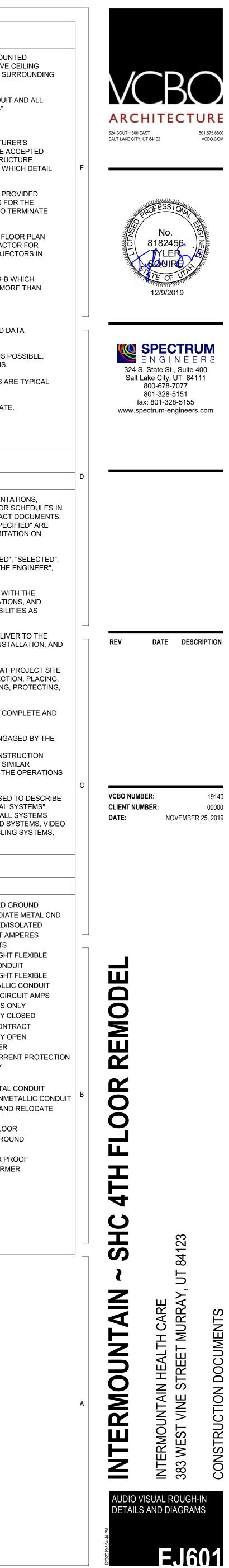
TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

ABBREVIATIONS

	NOTE: ALL ABBREVIATIONS	MAY NOT	ſ BE USED.
"A"	AMP OR AMPS	"IG"	INSULATED
"ADJ"	ADJACENT	"IMC"	INTERMEDIA
"AFF"	ABOVE FINISHED FLOOR	"IN/IS"	INSULATED/
"AL"	ALUMINUM	"KVA"	KILO VOLT A
"C"	CONDUIT	"KW"	KILOWATTS
"CB","C/B"	CIRCUIT BREAKER	"LFMC"	LIQUID TIGH
"CKT"	CIRCUIT		METAL CON
"CO"	CONVENIENCE OUTLET	"LFNC"	LIQUID TIGH
"C.O.R."	CONTRACTING OFFICER'S		NONMETALL
	REPRESENTATIVE	"MCA"	MINIMUM CI
"CU"	COPPER	"MLO"	MAIN LUGS
"EA"	EACH	"N.C."	NORMALLY
"ELEC"	ELECTRICAL	"N.I.C."	NOT IN CON
"EM"	EMERGENCY	"N.O."	NORMALLY
"EMT"	ELECTRICAL METALLIC TUBING	"O.C."	ON CENTER
"ENT"	ELECTRICAL NONMETALLIC TUBING	"OCP"	OVER CURR
"EQUIP"	EQUIPMENT	"QTY"	QUANTITY
"EX"	EXISTING	"R"	REMOVE
"FA"	FIRE ALARM	"RMC"	RIGID META
"FACP"	FIRE ALARM CONTROL PANEL	"RNC"	RIGID NONM
"FLA"	FULL LOAD AMPS	"RR"	REMOVE AN
"FMC"	FLEXIBLE METAL CONDUIT	"TYP"	TYPICAL
"F.O.B."	FREIGHT ON BOARD	"UF"	UNDER FLO
"GFI"	GROUND FAULT INTERRUPTER	"UG"	UNDER GRO
"GR"	GROUND	"W/"	WITH
"HOA"	HAND-OFF-AUTO	"WP"	WEATHER P
"HP"	HORSE POWER	"XFMR"	TRANSFORM

TELEPRESENCE ROOM AV CONDUIT RISER DIAGRAM

ACCESSIBLE CEILING



AUDIO AND VIDEO SYSTEM EC

SYMBOL	DESCRIPTION	QUANTIT
DPP	DATA PATCH PANEL, CAT6, 24-PORT	1
DTX	TWISTED PAIR DIGITAL VIDEO TRANSMITTER/ RECEIVER PAIR IN, W/ MOUNTING HARDWARE	OFP
UTX URX	TWISTED PAIR USB TRANSMITTER/ RECEIVER PAIR, W/ MOUNTING HARDWARE	OFP
	POWER AMPLIFIER, 70V, MONO, 60 WATT	OFP
CP#	CONNECTION PANELS #1	OFP
CP2 CP3	CONNECTION PANELS #2, #3	OFP
M49	FLAT PANEL DISPLAY, 49", LCD, MINIMUM 1080p	OFP
	FIXED WALL MOUNT, LANDSCAPE	OFP
M55	FLAT PANEL DISPLAY, 55", LCD, MINIMUM 1080p	OFP
	FIXED WALL MOUNT, LANDSCAPE	OFP
	FLAT PANEL DISPLAY, 80", LCD, MINIMUM 1080p	OFP
M75	FIXED WALL MOUNT W/ MONITOR MATING PLATE	OFP
NEE	FLAT PANEL DISPLAY, 55", LCD, MINIMUM 1080p	OFP
M55	CEILING MOUNT, LANDSCAPE	OFP
H	WEB CONFERENCING SOUND BAR WITH INTEGRATED CAMERA	OFP
COD CTRL POEI	VIDEO CONFERENCING/ COLLABORATION SYSTEM, INCLUDING TRACKING CAMERA, AND CONTROL TOUCH PANEL	OFP
MIC	VIDEO CONFERENCING MICROPHONE	OFP
BP	BUTTON CONTROL PANEL	OFP
CPU	SMALL FORMAT COMPUTER, OWNER FURNISHED AND INSTALLED	0
	CONNECTORS, SEE NOTE 5	A/R
	POWER SUPPLIES, MISC. TRANSFORMERS, SIGNAL SENSORS, PROTOCOL CONVERTERS, SEE NOTES 4, 7, 8	A/R
	PATCH CORDS, SEE NOTE 6	A/R
	ADAPTER CABLES, SEE NOTE 9	A/R
	CABLE, SEE AUDIO-VIDEO SYSTEMS CABLE SCHEDULE	A/R
	HDMI CONNECTOR SUPPORT BRACKETS	A/R
	NYLON BRAIDED EXPANDABLE SLEEVING	A/R
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR AT MONITORS	OFP
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR, 20 AMP, RACK MOUNT	OFP
		ODTAILE

	2				
AUDIO AND VIDEO SYSTEM EQUIPMENT LIST					
DESIGN OF TH BE PROVIDED COMPLETE IN NUMBERS DC	DICATED BELOW SHALL NOT BE CONSTRUED AS A "BILL OF MATERI HE ELECTRONIC SYSTEMS INSTALLATION. WHERE THE ITEMS INDIC. UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS H ISTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDEN ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADD	ATED ARE ON ARDWARE AN AND NOTIFY E CE. PROVIDE (E PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL ID SUPPORTS WHICH MAY NOT BE LISTED HERE, FOR A ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO		
SYMBOL	DESCRIPTION	QUANTITY	ACCEPTABLE TYPES		
DPP	DATA PATCH PANEL, CAT6, 24-PORT	1			
DTX DRX	TWISTED PAIR DIGITAL VIDEO TRANSMITTER/ RECEIVER PAIR IN, W/ MOUNTING HARDWARE	OFP	EXTRON HC 404		
UTX URX	TWISTED PAIR USB TRANSMITTER/ RECEIVER PAIR, W/ MOUNTING HARDWARE	OFP	IOGEAR GUCE64		
	POWER AMPLIFIER, 70V, MONO, 60 WATT	OFP	EXTRON MPA 601		
CP#	CONNECTION PANELS #1	OFP	PLATE W/ CUSTOM CONNECTIONS AND ENGRAVING AS DETAILED. SEE DETAILS ON SHEET TA501.		
CP2 CP3	CONNECTION PANELS #2, #3	OFP	EXTRON AAP PLATES, SEE DETAILS B5/TA501 AND A4/TA501		
	FLAT PANEL DISPLAY, 49", LCD, MINIMUM 1080p	OFP	LG 49LV640S, OR AS APPROVED		
M49	FIXED WALL MOUNT, LANDSCAPE	OFP	CHIEF MSTU W/ ALL NECESSARY ACCESSORIES, INCLUDING CAMERA SHELF		
	FLAT PANEL DISPLAY, 55", LCD, MINIMUM 1080p	OFP	LG 55LV640S, OR AS APPROVED		
M55	FIXED WALL MOUNT, LANDSCAPE	OFP	CHIEF MSTU W/ ALL NECESSARY ACCESSORIES, INCLUDING CAMERA SHELF		
M75	FLAT PANEL DISPLAY, 80", LCD, MINIMUM 1080p FIXED WALL MOUNT W/ MONITOR MATING PLATE	OFP OFP	LG 75UH5C, OR AS APPROVED CHIEF LSA1U		
	FLAT PANEL DISPLAY, 55", LCD, MINIMUM 1080p	OFP	LG 55LV640S, OR AS APPROVED		
M55 	CEILING MOUNT, LANDSCAPE	OFP	CHIEF LCM W/ ALL NECESSARY ACCESSORIES		
H	WEB CONFERENCING SOUND BAR WITH INTEGRATED CAMERA	OFP	AMX ACV-5100		
COD CTRL POEI	VIDEO CONFERENCING/ COLLABORATION SYSTEM, INCLUDING TRACKING CAMERA, AND CONTROL TOUCH PANEL	OFP	CISCO WEBEX ROOM KIT PLUS W/ CISCO WALL MOUNT AND PoE INJECTOR		
MIC	VIDEO CONFERENCING MICROPHONE	OFP	CISCO TABLE MICROPHONE 20		
BP	BUTTON CONTROL PANEL	OFP	EXTRON MLC PLUS 100, LABELED PER DETAIL. SEE DETAIL B4/TA501.		
	SMALL FORMAT COMPUTER, OWNER FURNISHED AND INSTALLED	0			
	CONNECTORS, SEE NOTE 5	A/R			
	POWER SUPPLIES, MISC. TRANSFORMERS, SIGNAL SENSORS, PROTOCOL CONVERTERS, SEE NOTES 4, 7, 8	A/R			
	PATCH CORDS, SEE NOTE 6	A/R			
	ADAPTER CABLES, SEE NOTE 9	A/R			
	CABLE, SEE AUDIO-VIDEO SYSTEMS CABLE SCHEDULE	A/R			
	HDMI CONNECTOR SUPPORT BRACKETS	A/R	EXTRON LOCKIT		
	NYLON BRAIDED EXPANDABLE SLEEVING	A/R	TECH FLEX FLEXO PET		
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR AT MONITORS	OFP	SURGEX SA82 OR		
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR, 20 AMP, RACK	OFP	TRIPP LITE ISOBAR6 TRIPP LITE IBAR12-20ULTRA		
	MOUNT A/R = AS REQUIRED, OFP =	 = OBTAIN FRO	M PLANS, OFCI = OWNER FURNISHED CONTRACTOR INSTALLED		

A	UDIO-VIDEO SYS	TEMS CABLE	SCHEDULE
CABLE TYPE	DESCRIPTION	ACCEPTABLE TYPES	SPECIAL INSTRUCTION
Μ	MICROPHONE CABLE, 22 AWG, SHIELDED, TWISTED PAIR W/ DRAIN	BELDEN 82761 LIBERTY 22-IP-CMP-EZ-WHY WEST PENN D25454	NOTE 19
L	LINE LEVEL CABLE, 22 AWG, SHIELDED, TWISTED PAIR W/ DRAIN	BELDEN 82761 LIBERTY 22-IP-CMP-EZ-WHY WEST PENN D25454	NOTE 19
S	SPEAKER CABLE, 70 V, 16 AWG, TWISTED PAIR	WEST PENN 25225 LIBERTY 16-2C-TTP	NOTE 19
С	CONTROL CABLE, 24 AWG, 4 PAIR, OVERALL SHIELD	BELDEN 88104 WEST PENN D252404	NOTE 19
D	DATA CABLE, CATEGORY 6	BELDEN 2400 SERIES WEST PENN 254246	NOTE 19
Р	DIGITAL VIDEO CABLE, TWISTED PAIR, SHIELDED	EXTRON XTP DTP 24	NOTE 19
Н	HDMI CABLE	KRAMER CP-AOCH/XL-XX	X=LENGTH NEEDED NOTE 19
Х	RF CABLE, 50 OHM, COAXIAL, RG-59	WEST PENN 25812 BELDEN 89907	

AUDIO-VIDEO SYSTEM CABLE INSTALLATION REQUIREMENTS SCHEDULE

ORIGIN	DESTINATION	CABLE TYPE	QUANTITY	SPECIAL INSTRUCTIONS	
		Н	1		
CP1	ER OR DISPLAY	R	1		
	DIOI LAT	L	2		
CP3	DISPLAY	Р	2		
C+ ER	Р	1			
		S	1	USE 'S' CABLE FOR POWER AS NEEDED	
LARGE		Р	2		
	M75	М	3		
TABLE		D	1		
BP	DATA ROOM	D	1		
	DISPLAY	С	1		
BP		S	1	USE 'S' CABLE FOR POWER AS NEEDED	

CABLE INSTALLATION REQUIREMENTS APPLY TO EVERY DEVICE LOCATION SHOWN IN EVERY ROOM. ER = EQUIPMENT RACK

E	
NS	

AV SYSTEMS SHEET INDEX TA001 SHEET INDEX, ABBREVIATIONS, AND GENERAL NOTES TA601 AUDIO VISUAL SYSTEMS DETAILS AND DIAGRAMS

AUDIO-VIDEO SIGNAL TYPE ABBREVIATIONS SCHEDULE

ADD	DREVIATIONS SCHEDULE
ABBREVIATION	SIGNAL TYPE
AL	AUDIO, LEFT, (LINE LEVEL)
AR	AUDIO, RIGHT, (LINE LEVEL)
AA	ANALOG AUDIO
F	OPTICAL FIBER
V	VIDEO, COMPOSITE-STANDARD RESOLUTION ANALOG VIDEO
YC	S-VIDEO-STANDARD RESOLUTION ANALOG VIDEO
YUV	COMPONENT VIDEO-STANDARD RESOLUTION ANALOG VIDEO
RGBHV	RED, GREEN, BLUE, HORIZONTAL & VERTICAL SYNC-HIGH RESOLUTION ANALOG VIDEO
XGA/VGA	EXTENDED GRAPHICS ARRAY/VIDEO GRAPHICS ARRAY-HIGH RESOLUTION ANALOG VIDEO
DVI	DIGITAL VIDEO INTERFACE-HIGH RESOLUTION DIGITAL VIDEO
HDMI	HIGH DEFINITION MULTIMEDIA INTERFACE-HIGH RESOLUTION DIGITAL VIDEO
DP	DISPLAY PORT-HIGH RESOLUTION DIGITAL VIDEO
TP	TWISTED PAIR
IP	INTERNET PROTOCOL
SDI	SERIAL DIGITAL INTERFACE

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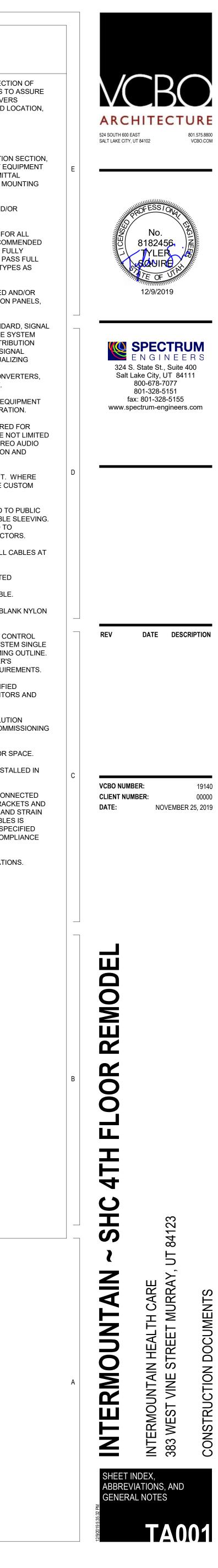
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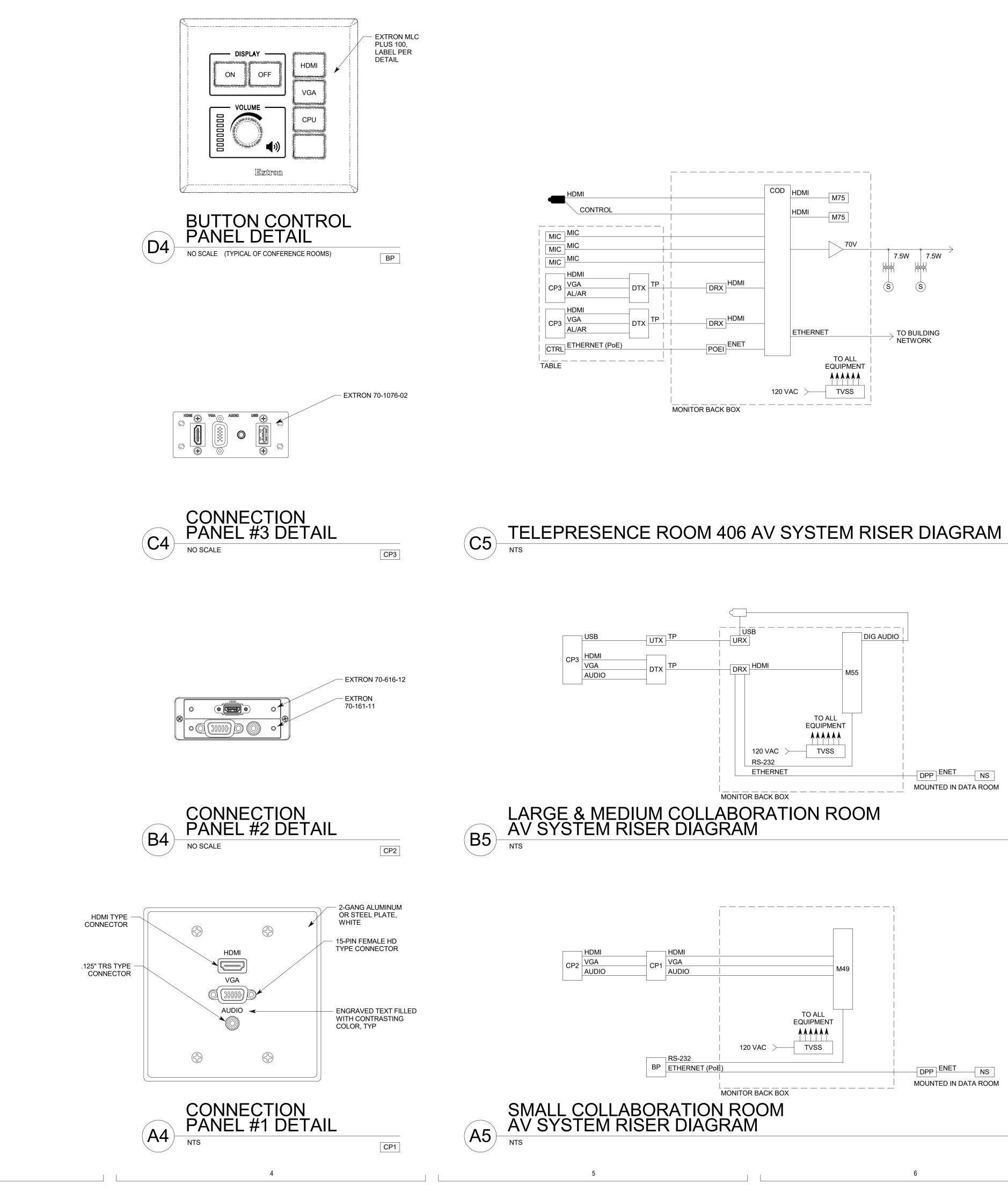
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.				
"A"	AMP OR AMPS	"IG"	INSULATED GROUND	
"ADJ"	ADJACENT	"IMC"	INTERMEDIATE METAL CND	
"AFF"	ABOVE FINISHED FLOOR	"IN/IS"	INSULATED/ISOLATED	
"AL"	ALUMINUM	"KVA"	KILO VOLT AMPERES	
"C"	CONDUIT	"KW"	KILOWATTS	
"CB","C/B"	CIRCUIT BREAKER	"LFMC"	LIQUID TIGHT FLEXIBLE	
"CKT"	CIRCUIT		METAL CONDUIT	
"CO"	CONVENIENCE OUTLET	"LFNC"	LIQUID TIGHT FLEXIBLE	
"C.O.R."	CONTRACTING OFFICER'S		NONMETALLIC CONDUIT	
	REPRESENTATIVE	"MCA"	MINIMUM CIRCUIT AMPS	
"CU"	COPPER	"MLO"	MAIN LUGS ONLY	
"EA"	EACH	"N.C."	NORMALLY CLOSED	
"ELEC"	ELECTRICAL	"N.I.C."	NOT IN CONTRACT	
"EM"	EMERGENCY	"N.O."	NORMALLY OPEN	
"EMT"	ELECTRICAL METALLIC TUBING	"O.C."	ON CENTER	
"ENT"	ELECTRICAL NONMETALLIC TUBING	"OCP"	OVER CURRENT PROTECTION	
"EQUIP"	EQUIPMENT	"QTY"	QUANTITY	
"EX"	EXISTING	"R"	REMOVE	
"FA"	FIRE ALARM	"RMC"	RIGID METAL CONDUIT	
"FACP"	FIRE ALARM CONTROL PANEL	"RNC"	RIGID NONMETALLIC CONDUIT	
"FLA"	FULL LOAD AMPS	"RR"	REMOVE AND RELOCATE	
"FMC"	FLEXIBLE METAL CONDUIT	"TYP"	TYPICAL	
"F.O.B."	FREIGHT ON BOARD	"UF"	UNDER FLOOR	
"GFI"	GROUND FAULT INTERRUPTER	"UG"	UNDER GROUND	
"GR"	GROUND	"W/"	WITH	
"HOA"	HAND-OFF-AUTO	"WP"	WEATHER PROOF	
"HP"	HORSE POWER	"XFMR"	TRANSFORMER	

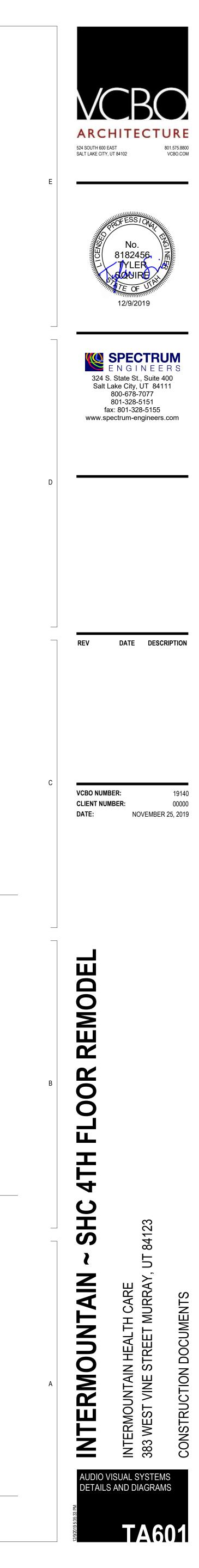
GENERAL AUDIO-VIDEO SYSTEMS NOTES

- CONDUCT AN RF FREQUENCY AUDIT OF THE SITE PRIOR TO SELECTION OF WIRELESS RF OPERATING FREQUENCIES. SELECT FREQUENCIES TO ASSURE INTERFERENCE FREE OPERATION. INSTALL ANTENNAS/TRANCEIVERS OUTSIDE OF THE EQUIPMENT RACK, AT AN ARCHITECT APPROVED LOCATION, WHERE THE BEST SYSTEM PERFORMANCE IS ACHIEVED.
- 2. FILL ALL UNUSED RACK SPACE WITH BLANK/VENT PANELS.
- 3. INSTALL/SUSPEND ALL EQUIPMENT IN COMPLIANCE WITH THE MANUFACTURERS WRITTEN INSTRUCTIONS, SEISMIC SPECIFICATION SECTION, AND INDUSTRY WIDE ACCEPTED RIGGING PRACTICES. SUPPORT EQUIPMENT WEIGHT FROM STRUCTURE ABOVE CEILINGS. DURING THE SUBMITTAL PROCESS, PROVIDE SHOP DRAWINGS WHICH DETAIL PROPOSED MOUNTING FOR ALL SUCH EQUIPMENT.
- 4. PROVIDE MANUFACTURER RECOMMENDED POWER SUPPLIES AND/OR TRANSFORMERS FOR ALL SPECIFIED EQUIPMENT.
- 5. FURNISH AND INSTALL ALL CABLE AND CONNECTORS REQUIRED FOR ALL AUDIO AND VIDEO SYSTEMS TO COMPLETE MANUFACTURER RECOMMENDED CABLE TO EQUIPMENT TERMINATION TO FORM A COMPLETE AND FULLY FUNCTIONAL SYSTEM AS SHOWN. SELECT CONNECTORS WHICH PASS FULL BANDWIDTH CAPABILITY OF SPECIFIED CABLE. PROVIDE CABLE TYPES AS IDENTIFIED IN THE AUDIO/VIDEO CABLE SCHEDULE.
- 6. PROVIDE PATCH CABLES TO FULLY INTERCONNECT ALL SPECIFIED AND/OR OWNER FURNISHED EQUIPMENT WITH THE SPECIFIED CONNECTION PANELS. SYSTEM INTERFACES, AND MISCELLANEOUS EQUIPMENT.
- PROVIDE MANUFACTURER RECOMMENDED, AND INDUSTRY STANDARD, SIGNAL LEVELS AND COMMUNICATION PROTOCOLS THROUGHOUT ENTIRE SYSTEM REGARDLESS OF CABLE LENGTHS. PROVIDE ALL REQUIRED DISTRIBUTION AND PROCESSING EQUIPMENT, INCLUDING BUT NOT LIMITED TO SIGNAL DISTRIBUTION AMPLIFIERS, LINE AMPLIFIERS, LINE DRIVERS, EQUALIZING AMPLIFIERS, GROUND/HUM ISOLATORS, MATCHING/ISOLATION TRANSFORMERS, CONTROL BUS DEVICES, COMMUNICATIONS CONVERTERS, ETC..., WHETHER SHOWN IN THE SINGLE LINE DIAGRAMS OR NOT.
- 8. PROVIDE POWER, CURRENT, AND/OR SIGNAL SENSORS FOR ALL EQUIPMENT WHERE IT IS NECESSARY FOR CORRECT CONTROL SYSTEM OPERATION.
- 9. PROVIDE PRE-MANUFACTURED ADAPTER CABLES WHERE REQUIRED FOR MATING CABLE TO CONNECTORS. THESE WILL INCLUDE, BUT ARE NOT LIMITED TO, ADAPTERS WHICH MATE DVI OR DISPLAY PORT TO HDMI, STEREO AUDIO TO MONO AUDIO, CONNECTORS, AND OTHER SIMILAR TERMINATION AND MATING REQUIREMENTS.
- 10. PROVIDE RACK MOUNT KITS FOR ALL RACK MOUNTED EQUIPMENT. WHERE MANUFACTURERS DO NOT PROVIDE RACK MOUNT KITS, PROVIDE CUSTOM RACK MOUNT KITS AS SPECIFIED.
- 11. WHERE ANY CABLE IS INSTALLED IN A FASHION WHERE EXPOSED TO PUBLIC VIEW, INSTALL CABLE INSIDE THE SPECIFIED BRAIDED EXPANDABLE SLEEVING. EXAMPLES OF SUCH LOCATIONS INCLUDE, BUT ARE NOT LIMITED TO EQUIPMENT ITEMS ON LECTERNS AND CEILING MOUNTED PROJECTORS.
- 12. PROVIDE PERMANENT, MECHANICALLY PRODUCED LABELS ON ALL CABLES AT CONNECTORS AND TERMINATION POINTS.
- 13. CONTROL SPECIFIED DEVICES UTILIZING THE MOST SOPHISTICATED COMMUNICATIONS PROTOCOL AVAILABLE ON THE DEVICE TO BE CONTROLLED. ALWAYS USE RS-232 OR ETHERNET WHEN AVAILABLE.
- 14. COVER JUNCTION BOXES WITH NO SPECIFIED AV DEVICES WITH BLANK NYLON COVER PLATE. COLOR TO MATCH ELECTRICAL DEVICES.
- 15. PROVIDE THE SPECIFIED ETHERNET NETWORK SWITCHES IN ALL CONTROL SYSTEMS WHERE REQUIRED TO COMPLY WITH THE CONTROL SYSTEM SINGL LINE DIAGRAMS SHOWN IN THE DRAWINGS, AND THE PROGRAMMING OUTLINE. CONNECT EVERY CONTROL SYSTEM PROCESSOR, TO THE OWNER'S ETHERNET NETWORK AND COMPLY WITH ALL PROGRAMING REQUIREMENTS.
- 16. CONNECT ALL SPECIFIED AV EQUIPMENT TO 120 VAC VIA A SPECIFIED TRANSIENT VOLTAGE SURGE SUPPRESSOR INCLUDING ALL MONITORS AND PROJECTORS.
- 17. SET EDID MINDERS FOR ALL EDID CAPABLE DEVICES TO A RESOLUTION DESIGNATED BY THE OWNER/DESIGNER DURING THE SYSTEM COMMISSIONING PROCESS.
- 18. SET ALL PLAYBACK DEVICES (DVD, TUNERS, ETC ...) TO RGB COLOR SPACE. 19. PROVIDE THE PLENUM RATED EQUIVALENT CABLE IF CABLE IS INSTALLED IN AN AIR PLENUM.
- 20. VERY CAREFULLY SUPPORT THE WEIGHT OF ALL HDMI CABLES CONNECTED TO RACK MOUNTED EQUIPMENT USING LOCKIT CABLE LACING BRACKETS AND RACK MOUNTED LACING BARS. PROFESSIONALLY DRESS, LACE, AND STRAIN RELIEF CABLES SO THAT NO WEIGHT FROM INDIVIDUAL HDMI CABLES IS TRANSFERRED TO INDIVIDUAL HDMI CONNECTORS.INSTALL THE SPECIFIED HDMI CABLE LACING BRACKETS ON ALL HDMI CONNECTORS IN COMPLIANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
- 21. SEE "EJ" SHEETS FOR AUDIO-VIDEO ROUGH-IN AND DEVICE LOCATIONS.



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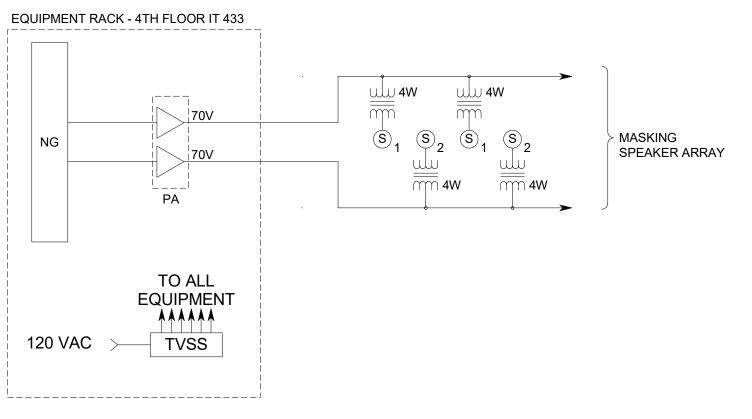
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SOUND MASKING SYSTEM EQUIPMENT LIST

DURING THE DESIGN OF THE ELECTRONIC SYSTEMS INSTALLATION. WHERE THE ITEMS INDICATED ARE ONE PORTION OF AN ASSEMBLY, THE ENTIRE ASSEMBLY SHALL BE PROVIDED UNLESS SPECIFIED OTHERWISE. PROVIDE ALL MISCELLANEOUS HARDWARE AND SUPPORTS WHICH MAY NOT BE LISTED HERE, FOR A COMPLETE INSTALLATION. COMPARE CATALOG NUMBERS WITH DESCRIPTIONS AND NOTIFY ENGINEER OF DISCREPANCIES PRIOR TO BID. IF CATALOG NUMBERS DO NOT MATCH DESCRIPTIONS, THE DESCRIPTIONS TAKE PRECEDENCE. PROVIDE COMPLETE SUBMITTAL FOR APPROVAL PRIOR TO PURCHASING ANY EQUIPMENT OR CABLE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.					
SYMBOL	DESCRIPTION	QUANTITY	ACCEPTABLE TYPES		
NG	MASKING NOISE GENERATOR, MULTI-CHANNEL W/ EQUALIZATION	OFP	ATLAS SOUND ASP-MG24 TDB		
(S) _{1,2}	MASKING SPEAKER ASSEMBLY, UPWARD RADIATING W/ 8" SPEAKER, SUSPENSION CHAIN, AND ROTARY TAP SELECTION	OFP	ATLAS SOUND M1000, SEE DETAIL B1/TM001		
PA	POWER AMPLIFIER, 2-CHANNEL, 70V, MINIMUM 200 WATTS PER CHANNEL	OFP	CROWN DCi 2-300 QSC-CX302V		
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR, 20 AMP	OFP	TRIPP LITE IBAR12-20ULTRA		
	J-HOOKS, SEE DETAIL D1/TM001	A/R	CADDY HILTI		
	SPEAKER CABLE, PLENUM RATED, 16AWG, TWISTED PAIR	A/R	BELDEN 6200UE WEST PENN 25226B		

4



4

3

SOUND MASKING SYSTEM RISER DIAGRAM

(A3)

A/R = AS REQUIRED OFP = OBTAIN FROM PLANS RMK = RACK MOUNT KIT

- OTHER BUILDING SYSTEM SUPPORT WIRES OR CABLES.

