

ARCHITECTURAL ABBREVIATIONS

A	AC AIR CONDITIONING	F	FF FACE TO FACE	P	PBD PARTICLEBOARD
ABV ABOVE	FA FIRE ALARM	FLR FLOOR	FAFP FIRE ALARM ANNUNCIATOR PANEL	PCF POUNDS PER CUBIC FOOT	PCP PORTLAND CEMENT PLASTER
ACST ACOUSTIC, ACOUSTICAL	FACP FIRE ALARM CONTROL PANEL	FLR FLOOR	FACD FIRE ALARM CONTROL PANEL	PLAM PLASTIC LAMINATE	PLCB PLUMBING
ADA AMERICANS WITH DISABILITIES ACT	FCD FLOOR CLEAN OUT	FR FRAME	FD FLOOR DRAIN	PLYWD PLYWOOD	PREFAB PREFABRICATED
ADJ ADJUSTABLE	FDC FIRE DEPARTMENT CONNECTION	FRP FIBERGLASS REINFORCED PLASTIC	FDN FOUNDATION	PREFIN PREFINISHED	PRKG PARKING
ADJT ADJACENT	FE FIRE EXTINGUISHER	FT FOOT	FE FIRE EXTINGUISHER	PSF POUNDS PER SQUARE FOOT	PSI POUNDS PER SQUARE INCH
AFB ABOVE FINISH FLOOR	FEC FIRE EXTINGUISHER CABINET	FUR FURRING	FFC FINISH FACE	PT PAINT	PTD PAPER TOWEL DISPENSER
ALT ALTERNATE	FFH FINISH FLOOR ELEVATION	GALV GALVANIZED	FHC FIRE HOSE CABINET	PTN PARTITION	PVC POLYVINYL CHLORIDE
ALUM ALUMINUM	FIN FINISH	GB GRAB BAR	FT FIXTURE	Q QUANTITY	
ANOD ANODIZED	FIXT FIXTURE	GL GLASS	FLR FLOOR	QT QUARRY TILE	
ARCH ARCHITECT, ARCHITECTURAL	FLR FLOOR	GLU GLUED LAMINATED WOOD	FOF FACE OF FINISH	QTB QUARRY TILE BASE	
ASPH ASPHALT	FOS FACE OF STUD	GLAZ GLAZING	FOS FACE OF STUD	QTY QUANTITY	
ASSY ASSEMBLY	FR FRAME	GYP GYPSUM	FR FIBERGLASS REINFORCED PLASTIC		
AUTO AUTOMATIC	FRP FIBERGLASS REINFORCED PLASTIC		FT FOOT		
	FUR FURRING				
B		G		R	
BATT BATT INSULATION		GA GAGE		R RADIUS, RISER	
BKR BAKER ROD		GALV GALVANIZED		R- THERMAL RESISTANCE	
BD BOARD		GB GRAB BAR		RA RETURN AIR	
BF BOTH FACES		GL GLASS		RB RUBBER BASE	
BLDG BUILDING		GLU GLUED LAMINATED WOOD		RD ROOF DRAIN	
BLKG BLOCKING		GLAZ GLAZING		RDL ROOF DRAIN LEADER	
BLW BELOW		GYP GYPSUM		RE REFER TO	
BM BEAM				REIN REINFORCE	
BN BULLNOSE				REQ REQUIRED	
BOS BOTTOM OF STEEL				REV REVISION	
BOT BOTTOM				RM ROOM	
BRG BEARING				RO ROUGH OPENING	
BS BOTH SIDES				RPM REVOLUTIONS PER MINUTE	
BSMT BASEMENT				RTU ROOF TOP UNIT	
BTWN BETWEEN					
BUR BUILT UP ROOFING					
BW BOTH WAYS					
BYND BEYOND					
C					
CG CORNER GUARD					
CIP CAST IN PLACE					
CJ CONTROL JOINT					
CL CENTER LINE					
CLG CEILING					
CLST CLOSET					
CLR CLEAR					
CLRM CLASSROOM					
CMU CONCRETE MASONRY UNIT					
CO COMPANY					
COL COLUMN					
CONC CONCRETE					
CONT CONTINUE					
CONTR CONTRACTOR					
COORD COORDINATE					
CORR CORRIDOR					
CPT CARPET					
CRS COURSE(S)					
CSWK CASWORK					
CT CERAMIC TILE					
CTR CENTER					
CTV CABLE TELEVISION					
CU CUBIC					
CUH CABINET UNIT HEATER					
CW COLD WATER PIPING					
D					
DBL DOUBLE					
DEF DEFIBRILLATOR					
DEPT DEPARTMENT					
DTL DETAIL					
DF DRINKING FOUNTAIN					
DIA DIAMETER					
DIM DIMENSION					
DISP DISPENSER					
DL DEAD LOAD					
DMFP DAMPROOFING					
DN DOWN					
DR DOOR					
DS DOWNSPOUT					
DW DISHWASHER					
DWG DRAWING					
E					
EA EAST					
EACH EACH					
ED EDUCATION					
EJ EXPANSION JOINT					
EL ELEVATION					
ELEC ELECTRICAL					
ELEV ELEVATOR					
ENCL ENCLOSURE					
ENGR ENGINEER					
EPDM ETHYLENE PROPYLENE DIENE MONOMER					
EQ EQUAL					
EQUIP EQUIPMENT					
EWIC ELECTRIC WATER COOLER					
EWH ELECTRIC WATER HEATER					
EXC EXCAVATE					
EXIST EXISTING					
EF EXHAUST FAN					
EXP EXPANSION					
EXT EXTERIOR					

CROSSROADS BUILDING RENOVATION

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

CONTRACT DOCUMENTS

1.4.2018

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PROJECT:

CROSSROADS BUILDING RENOVATION

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

OWNER:

LARAMIE COUNTY COMMUNITY COLLEGE

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

ISSUE:

1.4.2018 CONTRACT DOCUMENTS

DRAWING INFORMATION:

PROJECT NO: 11738.001

DRAWN BY: Author

CHECKED BY: Checker

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SHEET TITLE:

COVER AND GENERAL INFORMATION

G-001

SHEET OF

PROJECT TEAM

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IT/AV

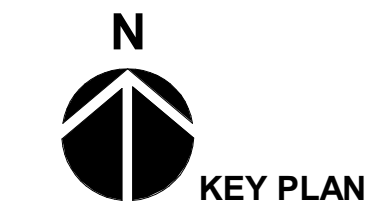
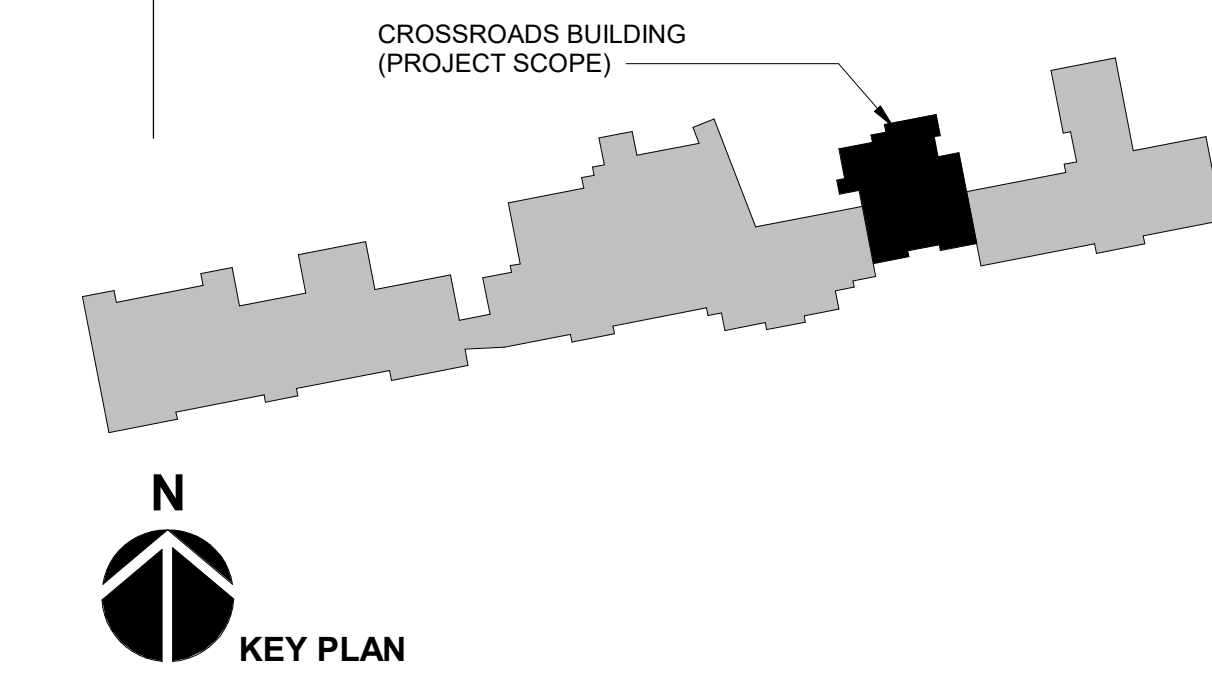
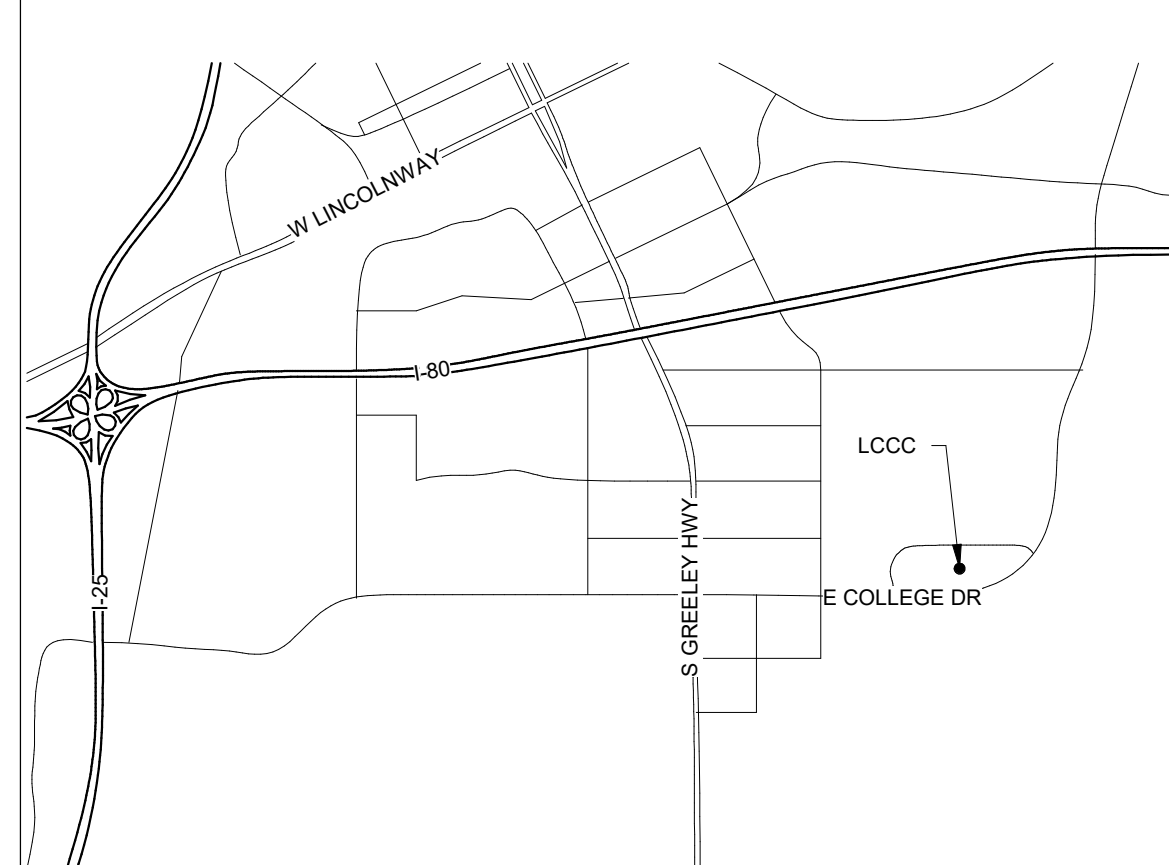
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ARCHITECTURAL LEGEND

	CONCRETE		BRICK
	CMU		ROUGH LUMBER
	PLYWOOD		FINISH LUMBER
	GYPSUM		RIGID INSULATION
	STEEL		BATT INSULATION
	DETAIL NUMBER		WINDOW TAG
	EXTERIOR ELEVATION		DOOR TAG
	BUILDING SECTION		KEYNOTE TAG
	WALL SECTION		PARTITION TAG
	DETAIL NUMBER		REVISION TAG
	DETAIL CALLOUT		DETAIL NUMBER
	INTERIOR ELEVATION		SHEET NUMBER

VICINITY MAP



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CODE SUMMARY

GOVERNING CODES: 2015 INTERNATIONAL BUILDING CODE
 2015 INTERNATIONAL EXISTING BUILDING CODE
 2015 INTERNATIONAL FIRE CODE
 2015 INTERNATIONAL MECHANICAL CODE
 2015 INTERNATIONAL ENERGY CODE
 2015 INTERNATIONAL PLUMBING CODE
 2015 INTERNATIONAL FUEL CODE
 2017 NATIONAL ELECTRICAL CODE
 2009 (CONSISTENT) ACCESSIBILITY CODE
 CHEYENNE CITY CODE

THIS IS A 10,349 SF RENOVATION INSIDE OF THE EXISTING 14,950 GSF CROSSROADS BUILDING. THE EXISTING BUILDING STRUCTURE IS CONCRETE POST AND BEAM WITH PRECAST CONCRETE DOUBLE TEE ROOF SLABS. THE RENOVATION WILL CONSIST OF NEW PARTITION WALLS, INTERIOR FINISH REPLACEMENT, NEW FIRE PROTECTION THROUGHOUT SPACE, AND MECHANICAL AND ELECTRICAL UPGRADES TO THE PROGRAM SPACE.

CONSTRUCTION TYPE: I-B, EXISTING BUILDING PARTIAL SPRINKLERED NEW SCOPE WILL SPRINKLER REMAINING FULLY DETECTED)

NUMBER OF STORIES: 1
 OCCUPANCY: B

EXITING: PER TABLE 1020.1 CORRIDOR FIRE-RESISTANCE RATING FOR BUSINESS SPACES 0 HR WITH SPRINKLERS

AREA SEPARATION: EXISTING 2 HOUR AREA SEPARATION BETWEEN CROSSROADS BUILDING AND ADJACENT BUILDINGS TO THE WEST AND EAST

PER 2015 IBC TABLE 504.3 AND 504.4, AND 506.2, ALLOWABLE AREA, HEIGHT AND NUMBER OF STORIES AS FOLLOWS:

OCCUPANCY GROUP: B TYPE: HEIGHT: 75 FEET STORIES: 4 ALLOWABLE AREA: 108,500 SF

ACTUAL: 14,950 GSF = IN COMPLIANCE

PER SECTION 303.1.1 AND 303.1.2 SMALL ASSEMBLY SPACES SHALL BE CLASSIFIED AS GROUP B OCCUPANCY.

TOTAL BUILDING OCCUPANTS = 198

PLUMBING COUNTS

PLUMBING COUNTS ARE BASED ON BUILDING OCCUPANCY:

** FOR THE PURPOSE OF PLUMBING CALCULATION, WE PROPOSE THE FOLLOWING OCCUPANT LOAD AND FIXTURE COUNTS BASED ON ACTUAL BUILDING USAGE. WE PROPOSE THESE FOLLOWING ASSUMPTIONS:

- NON-OCCUPIED SPACES (VESTIBULES, STAIRS, ELEVATORS, TOILET ROOMS, SHAFTS, CLOSETS) WILL NOT BE COUNTED TOWARDS OCCUPANT LOAD FOR EXISTING OR FIXTURE COUNT, BECAUSE THE SAME OCCUPANTS ARE IN EITHER OR SCENARIO OR THOSE SPACES ARE NON-OCCUPIABLE.
- BECAUSE SOME CIRCULATION SPACES SERVES AS PUBLIC AREAS FOR LOUNGING AND WAITING, THOSE SPECIFIC AREAS HAVE BEEN INCLUDED IN THE OCCUPANT LOAD COUNT FOR PLUMBING AND EXITING.
- DUE TO EXISTING CONDITIONS WE ARE REQUESTING A VARIANCE WITH ONE LAVATORY SHORT FOR EACH MALE & FEMALE AND SHORT ONE DRINKING FOUNTAIN.

WC (MALE)	WC (FEMALE)	LAVS	DF	OTHER
1.25 FOR 50	1.25 FOR 50	1.40 FOR 80	1.100	1 SVC SINK
1.50	1.50	1.80		
WC / URINAL		LAVS	DF	SVC SINK
FIXTURES REQUIRED (MALE)	3	3	-	-
FIXTURES REQUIRED (FEMALE)	3	3	-	-
TOTAL REQUIRED	6	6	2	1
FIXTURE PROVIDED	6	4	1	1

IBC CHAPTER 10: MEANS OF EGRESS:

SECTION 1005: MEANS OF EGRESS SIZING:

- 1005.3.1 STAIRWAYS: CAPACITY SHALL BE DETERMINED BY MULTIPLYING CALCULATED OCCUPANT LOAD PER FLOOR BY 0.3 INCH PER OCCUPANT
- 1005.3.2 OTHER EGRESS COMPONENTS: CAPACITY SHALL BE DETERMINED BY MULTIPLYING CALCULATED OCCUPANT LOAD PER FLOOR BY 0.2 INCH PER OCCUPANT
- 1005.7 ENCROACHMENT (DOORS): WHEN FULLY OPEN SHALL NOT REDUCE REQUIRED WIDTH MORE THAN 7 INCHES IN ANY POSITION, DOOR SHALL NOT REDUCE REQUIRED WIDTH MORE THAN HALF

SECTION 1006: NUMBER OF EXITS AND EXIT ACCESS DOORWAYS:

- 1006.2.1 EGRESS BASED ON OCCUPANT LOAD AND COMMON PATH OF EGRESS TRAVEL DISTANCE (CPET): TWO EXITS OR EXIT ACCESS DOORWAYS FROM ANY SPACE SHALL BE PROVIDED WHERE THE DESIGN OCCUPANT LOAD OR THE COMMON PATH OF EGRESS TRAVEL DISTANCE EXCEEDS THE VALUES LISTED IN TABLE 1006.2.1.
- T1006.2.1 SPACES WITH ONE EXIT OR EXIT ACCESS DOORWAY

OCCUPANCY	MAX CPET DISTANCE
'B'	100' (SPRINKLED)
- T1006.3.1 MINIMUM NUMBER OF EXITS OR ACCESS TO EXITS PER STORY

OCCUPANT LOAD PER STORY	MIN. NUMBER OF EXITS FROM STORY
1-500	2
501-1000	3

SECTION 1009: ACCESSIBLE MEANS OF EGRESS:

- 1009.1 ACCESSIBLE MEANS OF EGRESS REQUIRED: WHERE MORE THAN ONE MEANS OF EGRESS IS REQUIRED FROM AN ACCESSIBLE SPACE, THE ACCESSIBLE SPACE SHALL BE SERVED BY NO LESS THAN TWO ACCESSIBLE MEANS OF...
- 1009.8 TWO-WAY COMMUNICATION SYSTEM COMPLYING WITH SECTIONS 1009.8.1 AND 1009.8.2 SHALL BE PROVIDED AT THE LANDING SERVING EACH ELEVATOR OR BANK OF ELEVATORS ON EACH ACCESSIBLE FLOOR THAT IS ONE OR MORE STORIES ABOVE OR BELOW THE LEVEL OF EXIT DISCHARGE

SECTION 1010: DOORS, GATES AND TURNSTILES:

- 1010.1.1 SIZE OF DOORS: MINIMUM WIDTH OF DOOR OPENING SHALL BE AS REQUIRED FOR OCCUPANT LOAD AND SHALL PROVIDE A MINIMUM 32 INCH CLEAR WIDTH
- 1010.1.8 ACCESS-CONTROLLED EGRESS DOORS: EGRESS DOORS W/ APPROVED ACCESS CONTROL SYSTEMS SHALL DISENGAGE W/ SIGNAL OR LOSS OF POWER, MANUAL UNLOCKING DEVICES, ACTIVATION OF BUILDING FIRE ALARM SYSTEM AND/OR ACTIVATION OF BUILDING AUTOMATIC SPRINKLER SYSTEM

SECTION 1011: STAIRWAYS:

- 1011.3.1.2 FIRE-RESISTANCE RATING: STAIRWAY ENCLOSURES CONNECTING FOUR OR MORE STORIES SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN TWO HOURS.
- 1011.4 WIDTH: REQUIRED WIDTH SHALL BE DETERMINED BY OCCUPANT LOAD BUT SHALL NOT BE LESS THAN 44 INCHES.

SECTION 1013: EXIT SIGNS:

- 1013.1 WHERE REQUIRED: EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR IS MORE THAN 100 FEET FROM EXIT ACCESS OR EXIT SIGN

SECTION 1015: GUARDS:

- 1015.2 WHERE REQUIRED: OPEN-SIDES OF WALKING SURFACES AND BALCONIES THAT ARE LOCATED MORE THAN 30 INCHES VERTICALLY ABOVE GRADE

SECTION 1016: EXIT ACCESS:

- 1016.2 EGRESS THROUGH INTERVENING SPACES: EGRESS THROUGH INTERVENING SPACE IS PERMITTED WHERE SUCH ADJOINING SPACES ARE ACCESSORY AND PROVIDE A DISCERNIBLE PATH OF EGRESS TO AN EXIT

SECTION 1017: EXIT ACCESS TRAVEL DISTANCE:

- T1017.2 EXIT ACCESS TRAVEL DISTANCE:

OCCUPANCY:	MAX TRAVEL DISTANCE:
B	300 FEET (SPRINKLERS)

SECTION 1020: CORRIDORS:

- T1020.1 CORRIDOR FIRE-RESISTANCE RATING:

BUSINESS SPACES:	0 HR (SPRINKLERS)
STORAGE SPACES:	0 HR (SPRINKLERS)
- T1020.2 MINIMUM CORRIDOR WIDTH:

ASSEMBLY, BUSINESS:	44 INCHES CLEAR (MIN)
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- 1020.4 DEAD ENDS, WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS MORE THAN 20 FEET IN LENGTH. EXCEPTION 2: IN OCCUPANCIES IN GROUP B, WHERE THE BUILDING IS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH 903.3.1.1, THE LENGTH OF THE DEAD-END CORRIDORS SHALL NOT EXCEED 50 FEET.

SECTION 1023: INTERIOR EXIT STAIRWAYS AND RAMPS

- 1023.7 EXTERIOR WALLS OF INTERIOR EXITS THAT ARE NOT PROTECTED AND AT AN ANGLE LESS THAN 180 DEGREES SHALL BE PROTECTED 10' HORIZONTALLY BY A 1 HR RATING WITH OPENING PROTECTION OF NOT LESS THAN 45 MIN.

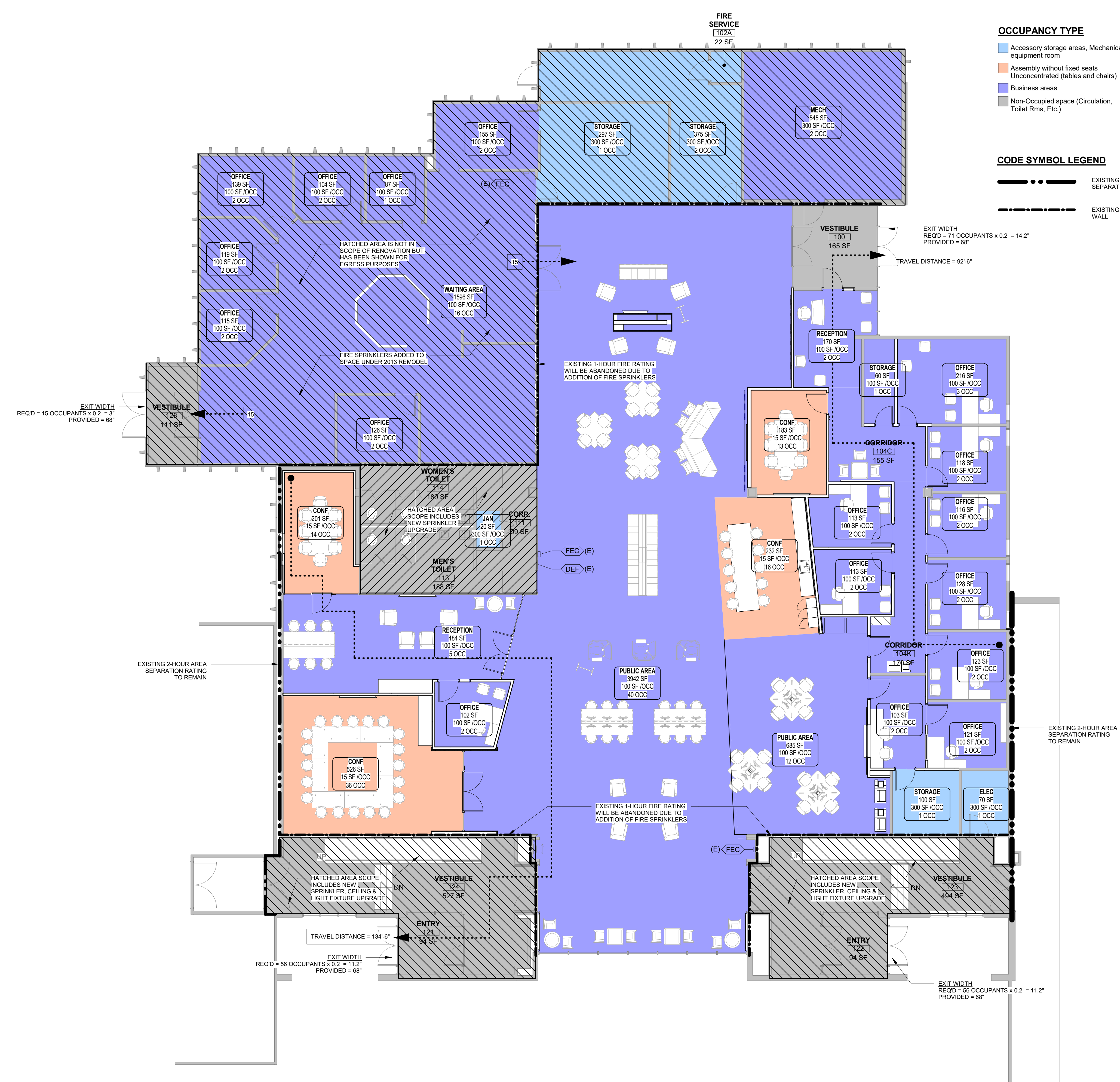
OCCUPANCY SCHEDULE						
Number	Name	Code Plan Name	Area	Area Per Occupant Calculated	Occupancy Classification	Occupancy
101	MECHANICAL	MECH	545 SF	100 SF	Business areas	2
102	FOOD PANTRY	STORAGE	375 SF	300 SF	Accessory storage areas, Mechanical equipment room	2
102A	FIRE SERVICE	MECH	22 SF	300 SF	Accessory storage areas, Mechanical equipment room	1
103	COLLABORATION	PUBLIC AREA	3942 SF	100 SF	Business areas	40
104A	RECEPTION/WAITING	RECEPTION	170 SF	100 SF	Business areas	2
104B	CONFERENCE ROOM	CONF	183 SF	15 SF	Assembly without fixed seats Unconcentrated (tables and chairs)	13
104C	CORRIDOR	CONF	155 SF	100 SF	Business areas	0
104D	STORAGE	STORAGE	60 SF	100 SF	Business areas	1
104E	OFFICE	OFFICE	216 SF	100 SF	Business areas	3
104F	OFFICE	OFFICE	118 SF	100 SF	Business areas	2
104G	OFFICE	OFFICE	116 SF	100 SF	Business areas	2
104H	OFFICE	OFFICE	128 SF	100 SF	Business areas	2
104J	OFFICE	OFFICE	123 SF	100 SF	Business areas	2
104K	CORRIDOR	CIRC	170 SF	100 SF	Business areas	0
104L	OFFICE	OFFICE	113 SF	100 SF	Business areas	2
104M	OFFICE	OFFICE	113 SF	100 SF	Business areas	2
105A	IT/HELP DESK	OFFICE	103 SF	100 SF	Business areas	2
105B	SPECIALIST OFFICE	OFFICE	121 SF	100 SF	Business areas	2
105C	STORAGE	STORAGE	100 SF	300 SF	Accessory storage areas, Mechanical equipment room	1
106	ELEC.	ELEC	70 SF	300 SF	Accessory storage areas, Mechanical equipment room	1
107	COMPUTER STATIONS	PUBLIC AREA	685 SF	100 SF	Business areas	12
108	COMMUNITY CAFE	CONF	232 SF	15 SF	Assembly without fixed seats Unconcentrated (tables and chairs)	16
109	CONF ROOM	CONF	526 SF	15 SF	Assembly without fixed seats Unconcentrated (tables and chairs)	36
110A	STUDENT VETERANS LOUNGE	RECEPTION	484 SF	100 SF	Business areas	5
110B	SVA OFFICE	OFFICE	102 SF	100 SF	Business areas	2
110C	STUDY / COMPUTER	CONF	201 SF	15 SF	Assembly without fixed seats Unconcentrated (tables and chairs)	14
112	JAN.	JAN	20 SF	300 SF	Accessory storage areas, Mechanical equipment room	1
118	WAITING AREA	WAITING AREA	1596 SF	100 SF	Business areas	16
119	OFFICE	OFFICE	87 SF	100 SF	Business areas	1
120	OFFICE	OFFICE	104 SF	100 SF	Business areas	2
125	OFFICE	OFFICE	139 SF	100 SF	Business areas	2
126	OFFICE	OFFICE	119 SF	100 SF	Business areas	2
127	OFFICE	OFFICE	115 SF	100 SF	Business areas	2
129	STORAGE	STORAGE	297 SF	300 SF	Accessory storage areas, Mechanical equipment room	1
130	OFFICE	OFFICE	155 SF	100 SF	Business areas	2
131	OFFICE	OFFICE	126 SF	100 SF	Business areas	2
Grand total			11932 SF			198

OCCUPANCY TYPE

- Accessory storage areas, Mechanical equipment room
- Assembly without fixed seats Unconcentrated (tables and chairs)
- Business areas
- Non-Occupied space (Circulation, Toilet Rms, Etc.)

CODE SYMBOL LEGEND

- EXISTING 2-HOUR AREA SEPARATION RATING
- EXISTING 1-HOUR FIRE RATED WALL

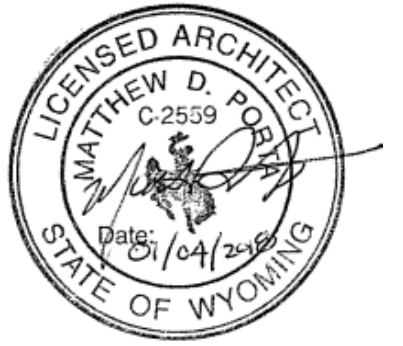


A1 FIRST FLOOR CODE PLAN

1/8" = 1'-0"

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CONSULTANT:



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OWNER:

LARAMIE COUNTY COMMUNITY COLLEGE

1400 EAST COLLEGE DRIVE
 CHEYENNE, WY 82007

ISSUE:

1.4.2018 CONTRACT DOCUMENTS

DRAWING INFORMATION:

PROJECT NO: 11738.001
 DRAWN BY: TW
 CHECKED BY: MP
 APPROVED BY: MP

SHEET TITLE:

FIRST FLOOR CODE PLAN

G-101
 SHEET OF

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SHEET NOTES - DEMOLITION PLANS

NOTE #	NOTE
1	DEMO EXISTING CARPET THRU-OUT
2	DEMO EXISTING DEMOUNTABLE PARTITIONS, DOOR FRAMES, DOORS & HARDWARE
3	DEMO EXISTING CERAMIC TILE
4	DEMO EXISTING WALL AND WINDOW
5	DEMO EXISTING TRANSACTION COUNTER
6	DEMO EXISTING SLIDING SECURITY GRILLE
7	DEMO EXISTING POWER POLE WOOD POST
8	DEMO EXISTING CASEWORK AND COUNTER TOP IN ITS ENTIRETY
10	DEMO EXISTING WALL FOR NEW DOOR
11	DEMO EXISTING GYP. BOARD SOFFIT ABOVE
12	DEMO EXISTING WALL
13	DEMO EXISTING DOOR
14	DEMO EXISTING VAULT DOOR AND CMU WALL AND LINTEL ABOVE DOOR
15	REMOVE EXISTING DEFLIBERATOR AND REINSTALL AS NOTED
16	REMOVE EXISTING FIRE EXTINGUISHER AND CABINET AND REINSTALL AS NOTED

DEMOLITION GENERAL NOTES

- GENERAL CONTRACTOR TO COORDINATE SCHEDULING ALL WORK WITH OWNER.
- WORK LABELED (NC), OR OTHERWISE NOT NOTED IS NOT IN CONTRACT FOR ANY ARCHITECTURAL IMPROVEMENTS.
- THE GENERAL CONTRACTOR & THEIR SUBCONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS WITH CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS AND SHALL REPORT ANY DEVIATIONS, DISCREPANCIES AND/OR CONFLICTS TO ARCHITECT.
- THE GENERAL CONTRACTOR & SUBCONTRACTOR SHALL TAKE EXTREME CARE DURING DEMOLITION NOT TO DAMAGE OR DISTURB ANY EXISTING CONDITIONS THAT ARE TO REMAIN. GENERAL CONTRACTOR OR SUBCONTRACTOR SHALL REPAIR ANY DAMAGE OR DISTURBANCE TO EXISTING CONDITIONS AT NO COST TO THE OWNER.
- PROVIDE PROTECTION FOR FLOORS, WALLS, & CEILING AT ALL EXISTING CONDITIONS TO REMAIN, INCLUDING TRAFFIC AREA FOR DEMOLITION REMOVAL IN COMMON BUILDING AREAS & FREIGHT ELEVATORS. DAMAGED FLOORS WILL BE REPLACED @ NO COST TO OWNER.
- REMOVE ALL WALLS, DOORS (AND OTHER ITEMS) SHOWN DASHED - FIELD VERIFY CONSTRUCTION OF ALL WALLS TO BE REMOVED - PROVIDE SHORING AND BRACING AS REQUIRED.
- ALL ITEMS WITHIN WALLS TO BE REMOVED ARE NOT SHOWN - FIELD VERIFY EXISTING CONDITIONS AND TEMPORARILY OR PERMANENTLY REMOVE ITEMS AS NECESSARY FOR NEW CONSTRUCTION.
- REMOVE ALL EXISTING POWER AND ASSOCIATED CONDUIT (AND OTHER MISCELLANEOUS ITEMS WHERE INDICATED) ON EXISTING WALLS TO BE REMOVED. IF REMOVAL WILL DISRUPT PERFORMANCE OF ANY ITEM NOT INCLUDED IN THIS SCOPE, RELOCATE AND ENSURE PROPER FUNCTION IS RESTORED.
- GENERAL CONTRACTOR TO COORDINATE ABATEMENT CONSULTANT FOR ANY CONTAMINATED MATERIALS TO BE REMOVED BEFORE WORK TO BEGIN IN THIS AREA.
- REFER TO SPECIFICATIONS REGARDING EXISTING CONDITIONS, CUTTING AND PATCHING AND SELECTIVE DEMOLITION REQUIREMENTS THAT APPLY TO ALL WORK KEY NOTES DESCRIBED ON THIS SHEET.
- REFER TO (ELECTRICAL, MECHANICAL, STRUCTURAL, LANDSCAPE, ETC.) DEMOLITION DRAWINGS FOR ADDITIONAL ITEMS.
- COORDINATE WITH BUILDING OWNER DURING DEMOLITION TO DETERMINE WHETHER EXISTING FIRE & SMOKE DETECTION SYSTEMS ARE TO BE BAGGED, PROTECTED & REMAIN IN OPERATION OR TO BE TAKEN OFF LINE.
- AREAS OF DEMOLITION SHALL BE FREE OF (FURNITURE AND MOBILE EQUIPMENT AND ACCESSORIES) PRIOR TO START OF WORK.
- REMOVE (STAPLES, NAILS AND SCREWS) FROM WALLS TO REMAIN. TYPICAL THROUGHOUT.
- REMOVE AND SALVAGE (ALL SIGNAGE, CLOCKS, EMERGENCY KITS, PENCIL SHARPENERS AND PHONES) FROM WALLS. (INSIDE CLASSROOMS AND IN LOBBY AREAS). PATCH AND REPAIR WALLS WHERE DAMAGED BY REMOVAL. (SALVAGE AND RETURN TO OWNER) (OR) (SALVAGE FOR NEW LOCATION)
- REMOVE AND REPLACE ALL EXISTING SWITCH PLATES AND OUTLET COVERS FROM EXISTING WALLS AND REPLACE WITH NEW PLATES PER SPEC.
- REMOVE ALL EXISTING WALL MOUNTED DOOR STOPPERS. PATCH AND REPAIR WALLS WHERE DAMAGED BY REMOVAL.
- REMOVE ALL FLOORING (INCLUDING ADHESIVES, SETTING MATERIALS, TRANSITION MATERIALS, ETC.) AND (RUBBER) WALL BASE. PROTECT WALLS FROM DAMAGE.
- REMOVE ALL WOOD DOORS. SAND DOORS SMOOTH & REFINISH TO ORIGINAL LUSTER.

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1331 Nineteenth Street
Denver, CO. 80202

P. 303.607.0977
www.hcm2.com

CONSULTANT:



PROJECT:

CROSSROADS BUILDING RENOVATION

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

OWNER:

LARAMIE COUNTY COMMUNITY COLLEGE

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

ISSUE:

1.4.2018 CONTRACT DOCUMENTS

DRAWING INFORMATION:

PROJECT NO: 11738.001

DRAWN BY: Author

CHECKED BY: Checker

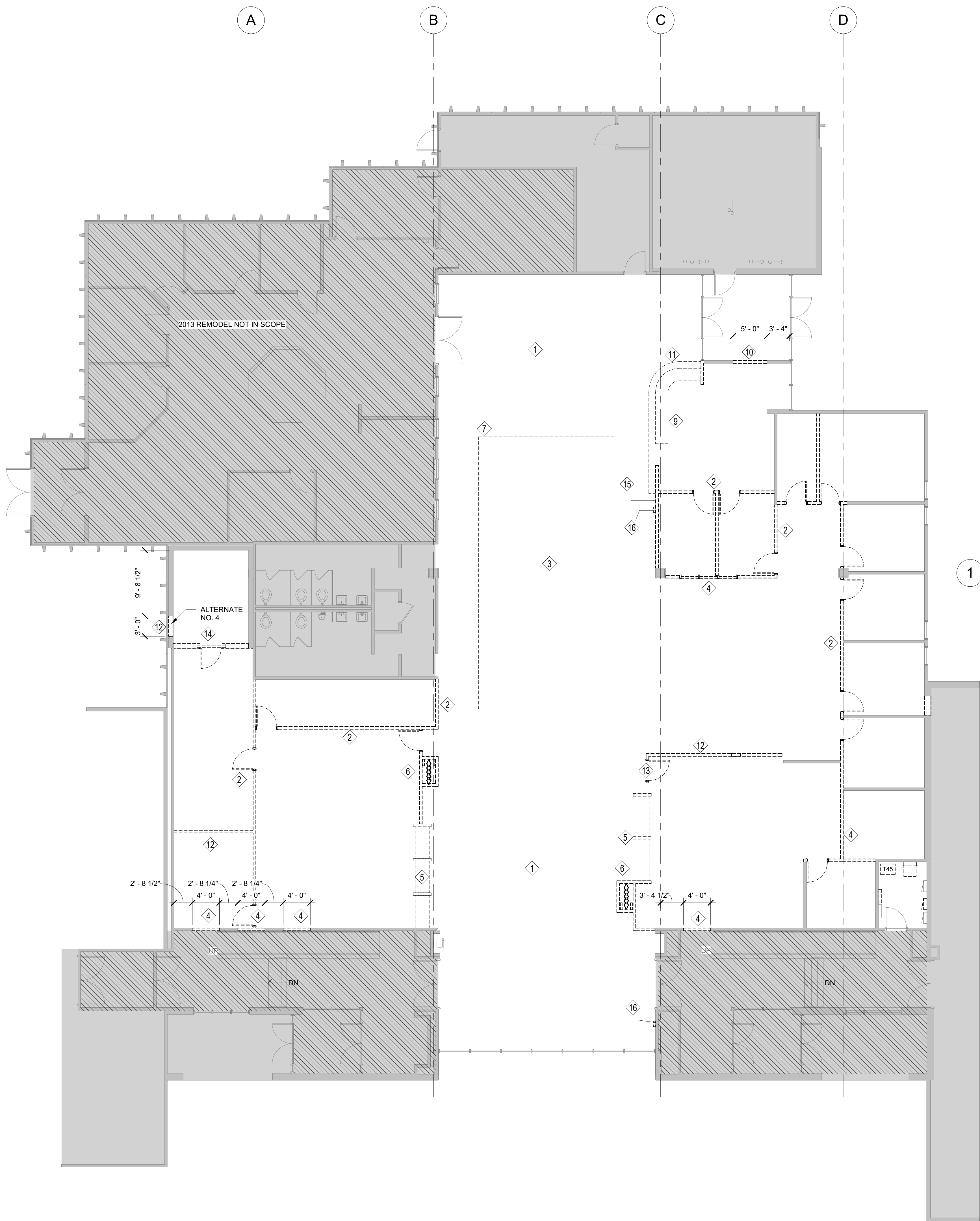
APPROVED BY: Approver

SHEET TITLE:

FIRST FLOOR DEMOLITION PLAN

AD-111

SHEET OF



A1 DEMOLITION FLOOR PLAN

1/8" = 1'-0"

**SHEET NOTES - DEMOLITION
REFLECTED CEILING PLANS**

NOTE #	NOTE
1	DEMO EXISTING CEILING AND GRID
2	DEMO EXISTING BULKHEAD
3	DEMO EXISTING WOOD CEILING
4	DEMO EXISTING OPERABLE PARTITIONS AND HOUSING
5	DEMO EXISTING SOFFIT
6	DEMO PORTION OF EXISTING CONCRETE CEILING. RE: DEMO DETAILS

**DEMOLITION RCP
GENERAL NOTES**

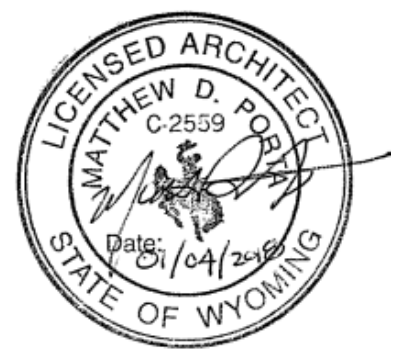
- GENERAL CONTRACTOR TO COORDINATE SCHEDULING ALL WORK WITH OWNER.
- WORK LABELED (N/C), OR OTHERWISE NOT NOTED IS NOT IN CONTRACT FOR ANY ARCHITECTURAL IMPROVEMENTS.
- THE GENERAL CONTRACTOR & THEIR SUBCONTRACTORS SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS WITH CONDITIONS SHOWN IN THE CONTRACT DOCUMENTS AND SHALL REPORT ANY DEVIATIONS, DISCREPANCIES AND/OR CONFLICTS TO ARCHITECT.
- THE GENERAL CONTRACTOR & SUBCONTRACTOR SHALL TAKE EXTREME CARE DURING DEMOLITION NOT TO DAMAGE OR DISTURB ANY EXISTING CONDITIONS THAT ARE TO REMAIN. GENERAL CONTRACTOR OR SUBCONTRACTOR SHALL REPAIR ANY DAMAGE OR DISTURBANCE TO EXISTING CONDITIONS AT NO COST TO THE OWNER.
- PROVIDE PROTECTION FOR FLOORS, WALLS, & CEILING AT ALL EXISTING CONDITIONS TO REMAIN, INCLUDING TRAFFIC AREA FOR DEMOLITION REMOVAL IN COMMON BUILDING AREAS & FREIGHT ELEVATORS. DAMAGED FLOORS WILL BE REPLACED @ NO COST TO OWNER.
- REMOVE ALL WALLS, DOORS (AND OTHER ITEMS) SHOWN DASHED - FIELD VERIFY CONSTRUCTION OF ALL WALLS TO BE REMOVED - PROVIDE SHORING AND BRACING AS REQUIRED.
- ALL ITEMS WITHIN WALLS TO BE REMOVED ARE NOT SHOWN - FIELD VERIFY EXISTING CONDITIONS AND TEMPORARILY OR PERMANENTLY REMOVE ITEMS AS NECESSARY FOR NEW CONSTRUCTION.
- REMOVE ALL EXISTING POWER AND ASSOCIATED CONDUIT (AND OTHER MISCELLANEOUS ITEMS WHERE INDICATED) ON EXISTING WALLS TO BE REUSED. IF REMOVAL WILL DISRUPT PERFORMANCE OF ANY ITEM NOT INCLUDED IN THIS SCOPE, RELOCATE AND ENSURE PROPER FUNCTION IS RESTORED.
- GENERAL CONTRACTOR TO COORDINATE ABATEMENT CONSULTANT FOR ANY CONTAMINATED MATERIALS TO BE REMOVED BEFORE WORK TO BEGIN IN THIS AREA.
- REFER TO SPECIFICATIONS REGARDING: EXISTING CONDITIONS, CUTTING AND PATCHING AND SELECTIVE DEMOLITION REQUIREMENTS THAT APPLY TO ALL WORK KEY NOTES DESCRIBED ON THIS SHEET.
- REFER TO (ELECTRICAL, MECHANICAL, ETC.) DEMOLITION DRAWINGS FOR ADDITIONAL ITEMS.
- COORDINATE W/ BUILDING OWNER DURING DEMOLITION TO DETERMINE WHETHER EXISTING FIRE & SMOKE DETECTION SYSTEMS ARE TO BE BAGGED, PROTECTED & REMAIN IN OPERATION OR TO BE TAKEN OFF LINE.
- AREAS OF DEMOLITION SHALL BE FREE OF (FURNITURE AND MOBILE EQUIPMENT AND ACCESSORIES) PRIOR TO START OF WORK.
- REMOVE (STAPLES, NAILS AND SCREWS) FROM WALLS TO REMAIN, TYPICAL THROUGHOUT.
- REMOVE AND SALVAGE (ALL SIGNAGE, CLOCKS, EMERGENCY KITS, PENCIL SHARPENERS AND PHONES) FROM WALLS. PATCH AND REPAIR WALLS WHERE DAMAGED BY REMOVAL. (SALVAGE AND RETURN TO OWNER, U.O.N.)
- REMOVE AND REPLACE ALL EXISTING SWITCH PLATES AND OUTLET COVERS FROM EXISTING WALLS AND REPLACE WITH NEW PLATES PER SPEC.
- REMOVE ALL EXISTING WALL MOUNTED DOOR STOPPERS. PATCH AND REPAIR WALLS WHERE DAMAGED BY REMOVAL.
- REMOVE ALL FLOORING (INCLUDING ADHESIVES, SETTING MATERIALS, TRANSITION MATERIALS, ETC.) AND (RUBBER) WALL BASE. PROTECT WALLS FROM DAMAGE.

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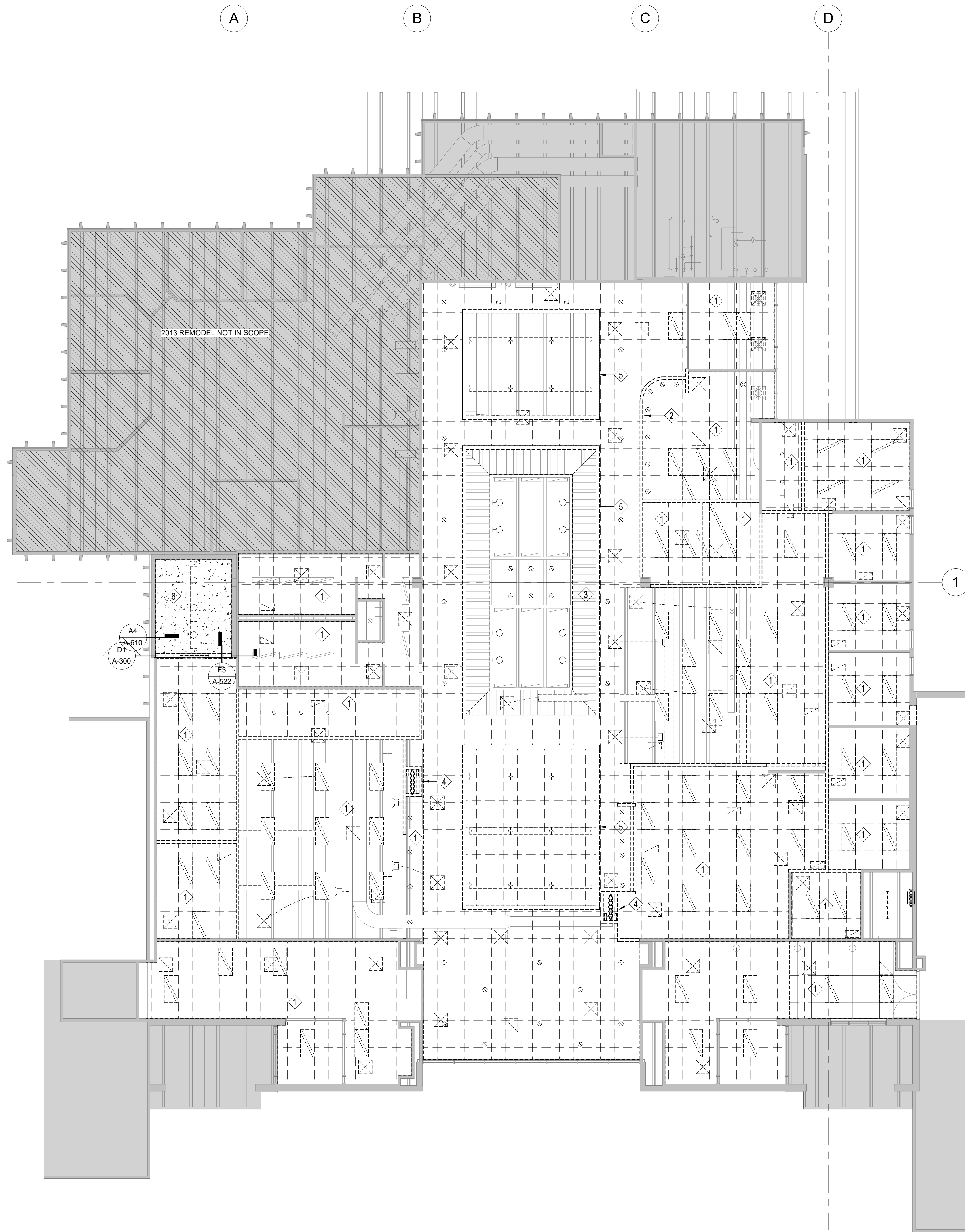
APPROVED BY: Approver

SHEET TITLE:

**FIRST FLOOR
REFLECTED CEILING
DEMOLITION PLAN**

AD-121

SHEET OF



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

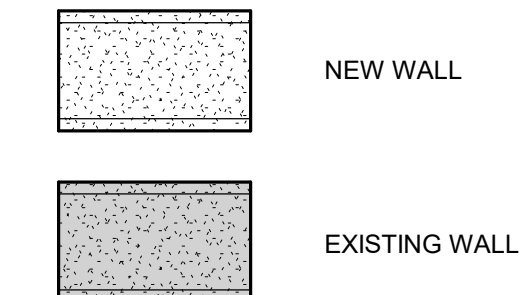


CONSULTANT:

FLOOR PLAN GENERAL NOTES

- DIMENSIONS INDICATED ARE TO FACE OF FINISH MATERIAL OF PARTITION OR WALL AND GRID LINES, UNLESS NOTED OTHERWISE.
- REFER TO FINISH PLANS FOR INTERIOR ELEVATION CALLOUTS, ENLARGED PLAN CALLOUTS AND FLOOR PATTERNS.
- REFER TO FINISH PLANS FOR MARKER/TACKL/C/D SCREEN SIZES AND LOCATIONS.
- PROVIDE BLOCKING AT ALL WALL-MOUNTED ACCESSORIES HARDWARE WHERE REQUIRED AND WALL-HUNG CABINETS.
- VERIFY & COORDINATE ALL REQUIREMENTS FOR OWNER FURNISHED ITEMS PRIOR TO PERFORMANCE OF WORK THAT MAY INTERFACE WITH SUCH ITEMS.
- PROVIDE PAINTED ACCESS PANELS IN WALLS & CEILINGS AT CONCEALED ITEMS, SUCH AS VALVES, CONTROLS, SWITCHES OR ANY OTHER ITEMS THAT REQUIRES ACCESS. GC TO DETERMINE ACCESS PANEL LOCATION W/ ARCHITECT PRIOR TO INSTALLATION.

WALL LEGEND



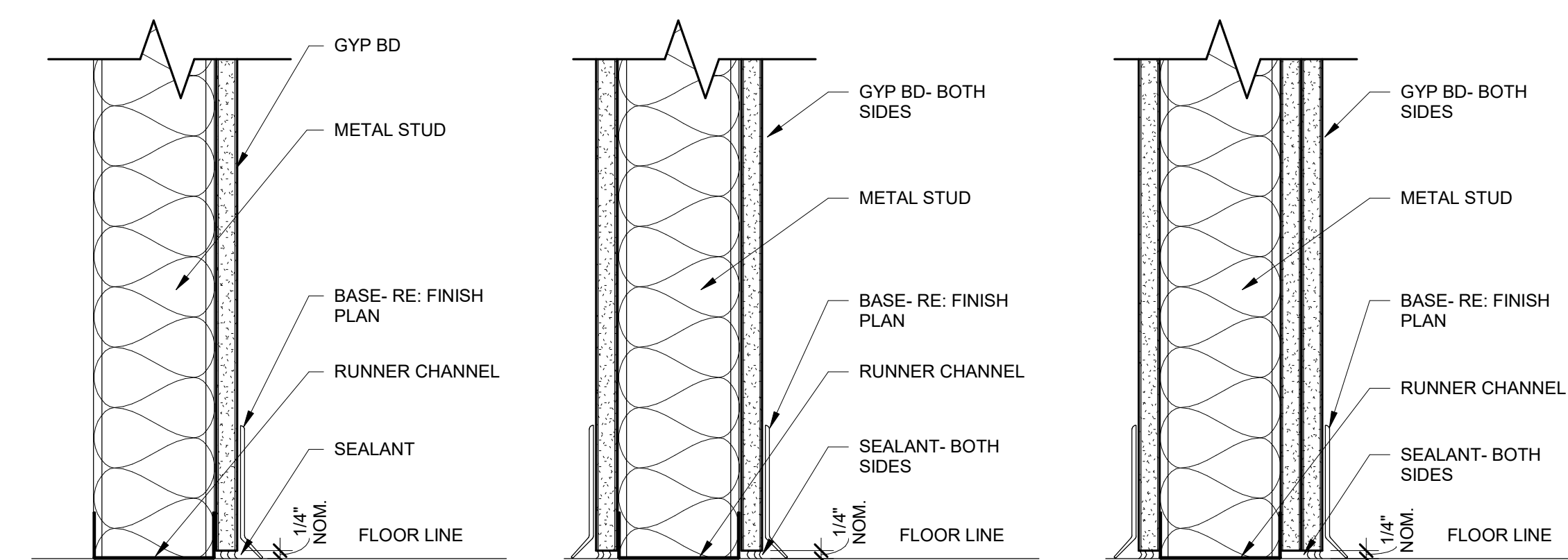
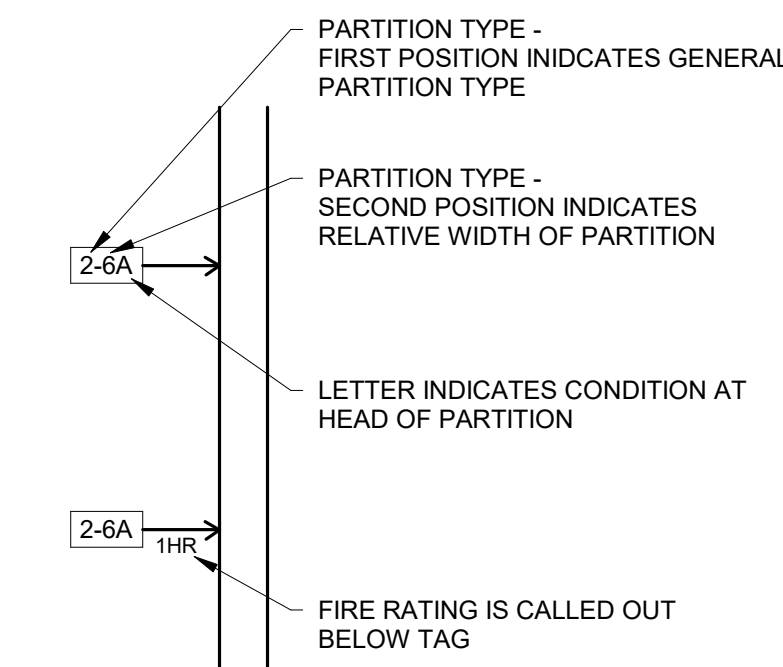
SHEET NOTES - CONSTRUCTION PLANS

NOTE #	NOTE
1	EXISTING UNDERCOUNTER REF TO BE RELOCATED
2	RELOCATED DEFIBRILLATOR, MOUNTED AT EXISTING HEIGHT
3	RELOCATED FIRE EXTINGUISHER AND CABINET, MOUNT AT EXISTING HEIGHT
4	FLOOR BOX, RE. ELEC DWGS

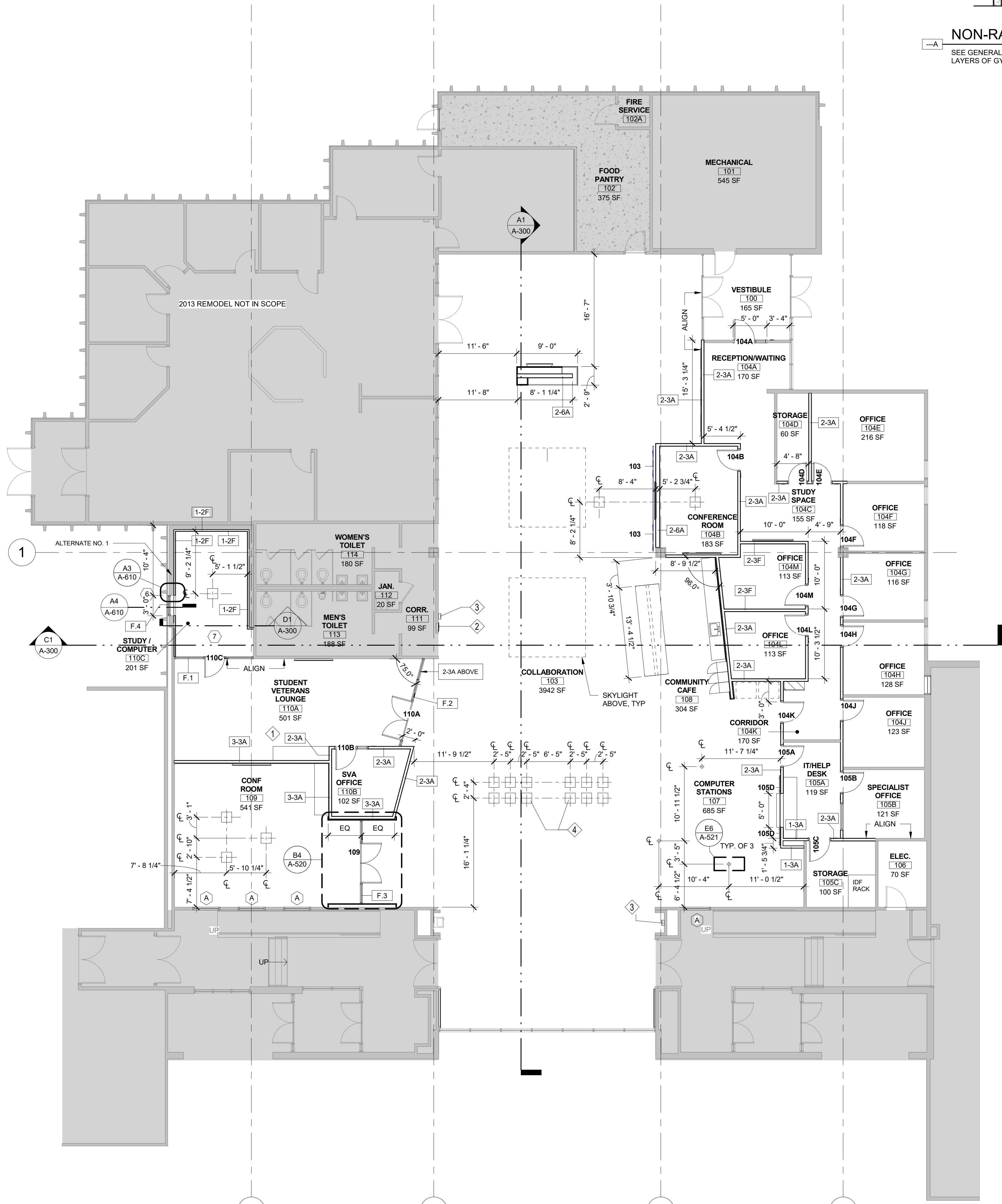
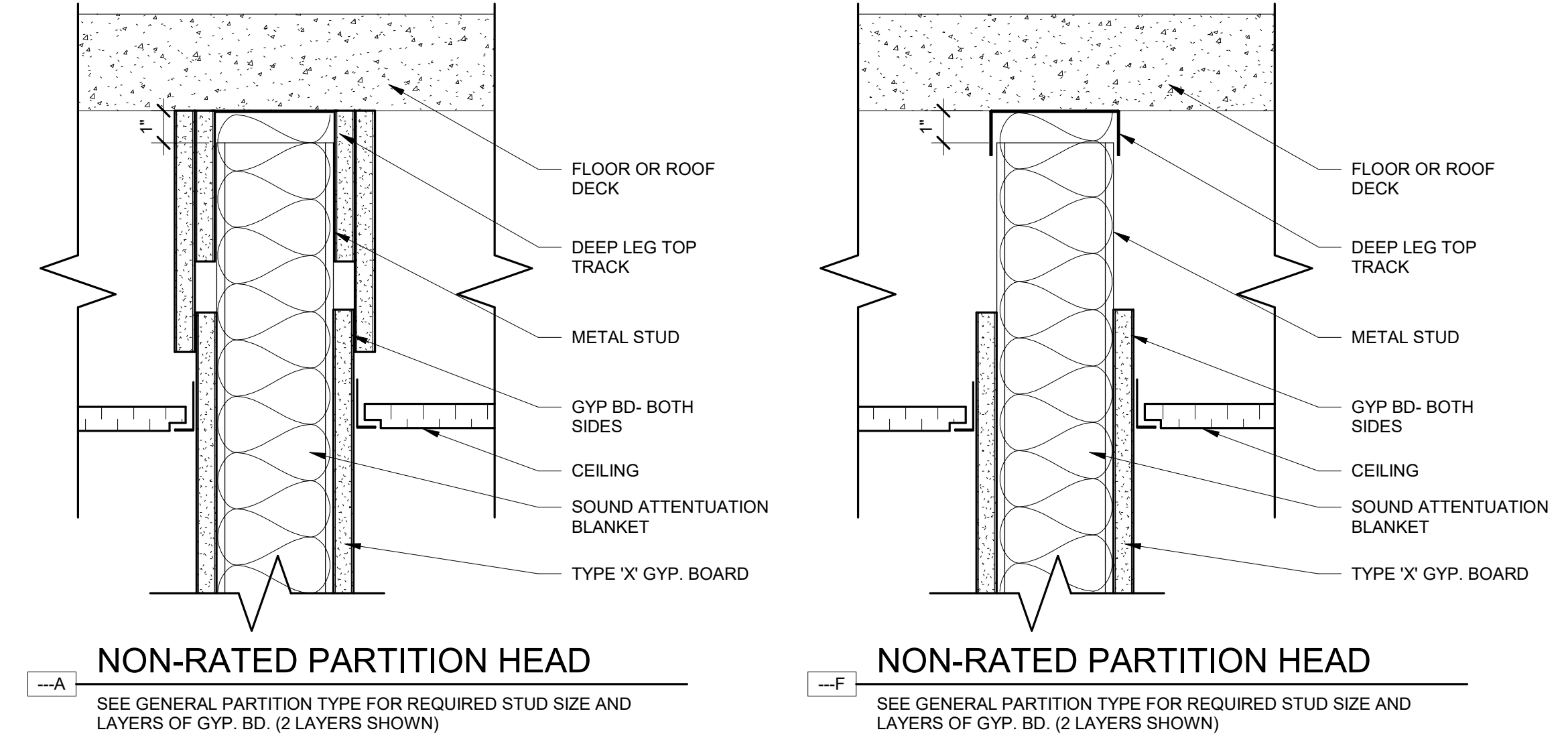
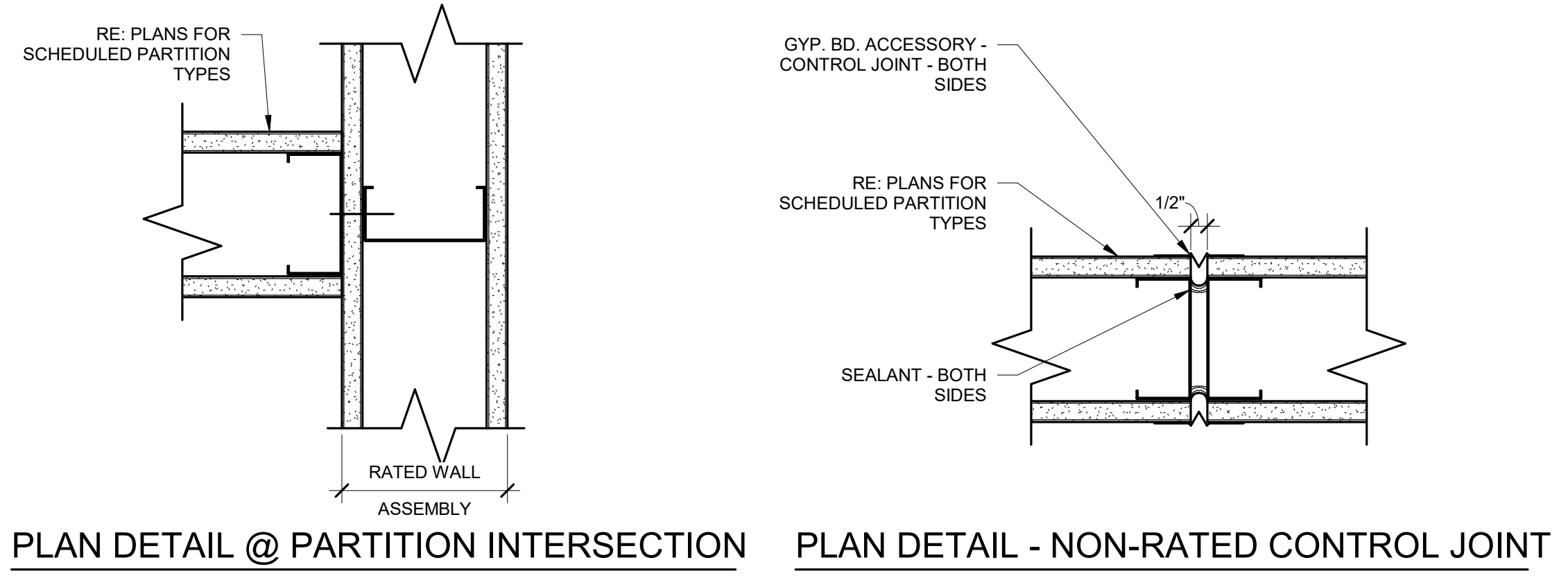
PARTITION TYPES NOTES

- PARTITION TYPES ARE INDICATED ON THE FLOOR PLANS.
- ALL PARTITIONS SHALL EXTEND STRUCTURE TO STRUCTURE UNLESS NOTED OTHERWISE.
- CONSTRUCTION OF FIRE-RATED PARTITIONS, INCLUDING TAPING AND FINISHING OF GYP. BD. FOR FULL HEIGHT TO STRUCTURE ABOVE, SHALL BE IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS TO ACHIEVE THE RATING INDICATED.
- SOUND ISOLATION PARTITIONS SHALL BE SEALED AIRTIGHT FOR FULL HEIGHT TO PREVENT PASSAGE OF AIRBORNE SOUND. TAPE AND FINISH ALL GYP. BD. JOINTS AND FASTENERS, PROVIDE SEALANT AT PERIMETER AND AT ALL PENETRATIONS.
- PROVIDE FIRE-RETARDANT TREATED WOOD BLOCKING FOR PARTITION MOUNTED EQUIPMENT AND CASEWORK.
- PARTITION TYPES DESCRIBE THE PRIMARY MEMBER AND SHEATHING. REFER TO FINISH SCHEDULE FOR ALL PARTITION FINISH DESIGNATIONS.
- PROVIDE TYPE 'WR' WATER RESISTANT GYP. BD. IN ALL WET AREAS SUCH AS TOILET, LOCKER, AND SHOWER ROOMS. PROVIDE 5/8" CONCRETE BACKER BOARD AT ALL CERAMIC TILE FINISHES TO ALIGN WITH 5/8" TYPE 'WR' GYP. BD. ABOVE.
- PROVIDE SLIP JOINT CONNECTIONS AT THE TOPS OF ALL PARTITIONS WHICH INTERSECT THE STRUCTURE ABOVE. PROVIDE FIRE SAFING AT ALL SLIP JOINT CONNECTIONS IN FIRE RATED PARTITIONS.
- ALL PARTITIONS TO BE PARTITION TYPE (3-5/8" METAL STUD WITH SOUND ATTENUATION INSULATION AND (1) LAYER OF 5/8" GYP. BD. ON BOTH SIDES) AND SHALL EXTEND STRUCTURE TO STRUCTURE, UNLESS NOTED OTHERWISE WITH A PARTITION TYPE TAG. THIS DEFAULT PARTITION TYPE IS NON-RATED. THIS SAME PARTITION TYPE IN A RATED CONDITION IS TAGGED ON THE FLOOR PLANS.
- PROVIDE GYP. BD. CONTROL JOINTS WHERE DESIGNATED ON THE INTERIOR ELEVATIONS (A-420 SHEETS) AND ANYWHERE THERE IS A CONTINUOUS RUN OF GYP. BD. THAT IS GREATER THAN 30'-0" IN LENGTH. CONFIRM THE LOCATION OF ADDITIONAL CONTROL JOINTS WITH THE ARCHITECT PRIOR TO INSTALLATION.

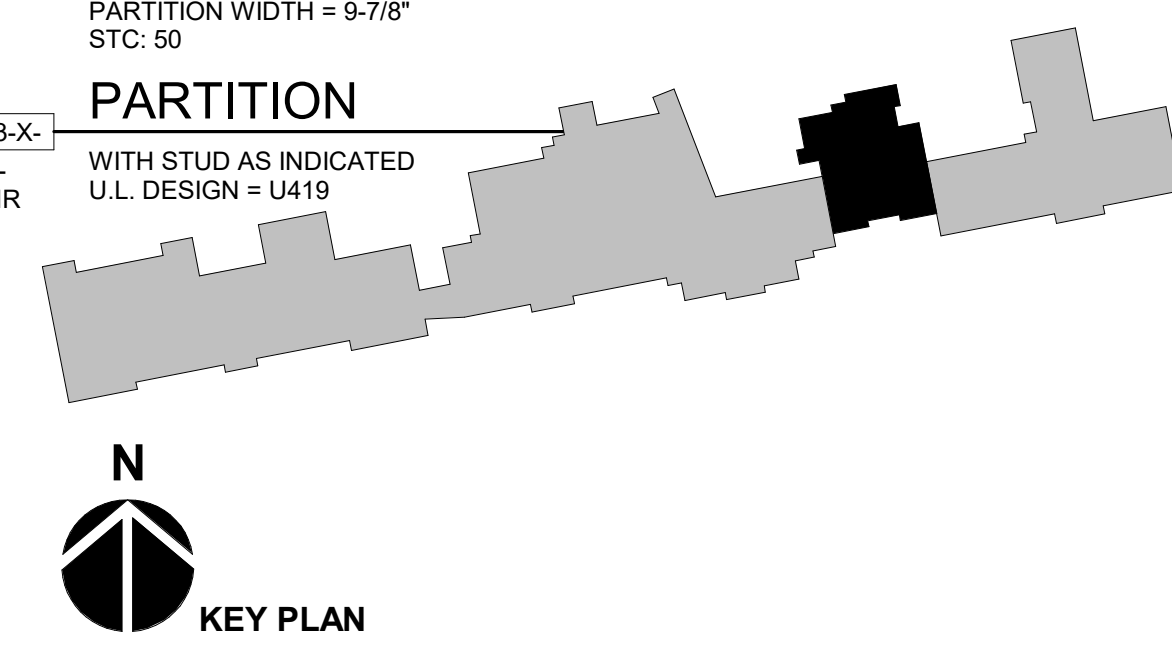
PARTITION TYPES LEGEND



- 1-2** PARTITION WITH 2-1/2" METAL STUD PARTITION WIDTH = 3-1/8"
- 1-3** PARTITION WITH 3-5/8" METAL STUD PARTITION WIDTH = 4-1/4"
- 1-6** PARTITION WITH 6" METAL STUD PARTITION WIDTH = 6-5/8"
- 1-8** PARTITION WITH 8" METAL STUD PARTITION WIDTH = 8-5/8"
- 2-2** PARTITION WITH 2-1/2" METAL STUD PARTITION WIDTH = 3-3/4"
- 2-3** PARTITION WITH 3-5/8" METAL STUD PARTITION WIDTH = 4-7/8" STC: 45
- 2-6** PARTITION WITH 6" METAL STUD PARTITION WIDTH = 7-1/4" STC: 45
- 2-8** PARTITION WITH 8" METAL STUD PARTITION WIDTH = 9-1/4" STC: 45
- 2-X** PARTITION WITH STUD AS INDICATED U.L. DESIGN = U419
- 3-2** PARTITION WITH 2-1/2" METAL STUD PARTITION WIDTH = 4-3/8"
- 3-3** PARTITION WITH 3-5/8" METAL STUD PARTITION WIDTH = 5-1/2" STC: 50
- 3-6** PARTITION WITH 6" METAL STUD PARTITION WIDTH = 7-7/8" STC: 50
- 3-8** PARTITION WITH 8" METAL STUD PARTITION WIDTH = 9-7/8" STC: 50
- 3-X** PARTITION WITH STUD AS INDICATED U.L. DESIGN = U419



A1 FIRST FLOOR
1/8" = 1'-0"



CROSSROADS BUILDING RENOVATION

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PROJECT NO:	11738.001
DRAWN BY:	TM
CHECKED BY:	TW
APPROVED BY:	MP

FIRST FLOOR PLAN

SHEET NOTES - RCP

NOTE #	NOTE
1	NEW GRID, CEILING TILES & LIGHT FIXTURES AS SCHEDULED THROUGHOUT SCOPE OF WORK. RE: ELEC DRAWINGS FOR ADDITIONAL INFORMATION
2	DECORATIVE PENDANT LIGHT FIXTURE, RE: ELEC DRAWINGS
3	NEW GYP & LIGHTING
4	CONTROL JOINT, TYP
5	NEW METAL GRID TILES & LIGHT FIXTURES AS SCHEDULED THROUGHOUT SCOPE OF WORK. RE: ELEC DRAWINGS FOR ADDITIONAL INFORMATION
6	AT C-5, PAINT ALL EXPOSED ELEMENTS (PIPING, DUCTWORK, STRUCTURE) ABOVE GRID P-7

RCP GENERAL NOTES

- ALL CEILING ELEVATIONS DIMENSIONED FROM FINISH FLOOR BELOW.
- CENTER ALL DEVICES, SPRINKLER HEADS, ETC. IN CEILING TILE.
- FIRE SPRINKLER CONTRACTOR TO REFERENCE ALL DRAWINGS & SPECIFICATIONS FOR DETERMING REQUIRED COVERAGE & HEAD LAYOUT/ DESIGN.
- PAINT ALL EXPOSED STRUCTURE, RE: FINISH LEGEND
- ALL GYPSUM BOARD SOFFITS AT 9'-0" AFF U.O.N.
- PAINT ALL SOFFITS P-5 U.O.N.

CEILING TYPE LEGEND

- C-1 NEW GYP BD
- C-2 NEW 2X4 ACT, EXISTING GRID
- C-3 EXISTING 1X1 ACT, EXISTING 2X4 GRID
- C-4 EXISTING 2X4 ACT, EXISTING 2X4 GRID
- C-5 OPEN TO STRUCTURE
- C-6 WOOD CEILING
- C-7 PERFORATED METAL CEILING, PAINT STRUCTURE ABOVE P-7

DECORATIVE LIGHT FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP	MANUFACTURER	FINISH	MOUNTING	NOTE
L1	PENDANT ACCENT LIGHT, 277V ELECTRONIC LED DRIVER, 0-10V DIMMING, 1309 LUMENS, 5-YR WARRANTY	LED, 3000, 26.5W, 80 CRI	BEGA	VELVET BLACK W/ MATTE COPPER INTERIOR	CEILING, +8'-6" AFF	GENTS
L2	PENDANT ACCENT LIGHT, ELECTRONIC LED DRIVER, 0-10V DIMMING, WITH SOCKET HOLDER FOR EDISON BASE, 1-YR WARRANTY	LED, 2200K, 2W	BRUCK LIGHTING BY LEDRA BRANDS	BRUSHED NICKEL	CEILING, +7'-0" TO +8'-6" IN VARYING INCREMENTS	MULTI LINE VOLTAGE PENDANT - 5 POINT CANOPY, BRONZE
L3	WALL MOUNTED ACCENT LIGHT WITH INDUSTRIAL PIPING	LED	CUSTOM		WALL MOUNTED	REFER TO ALLOWANCE NO. 1 FOR ADDITIONAL INFORMATION



A1 FIRST FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

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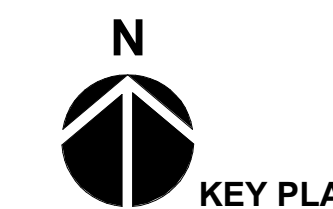
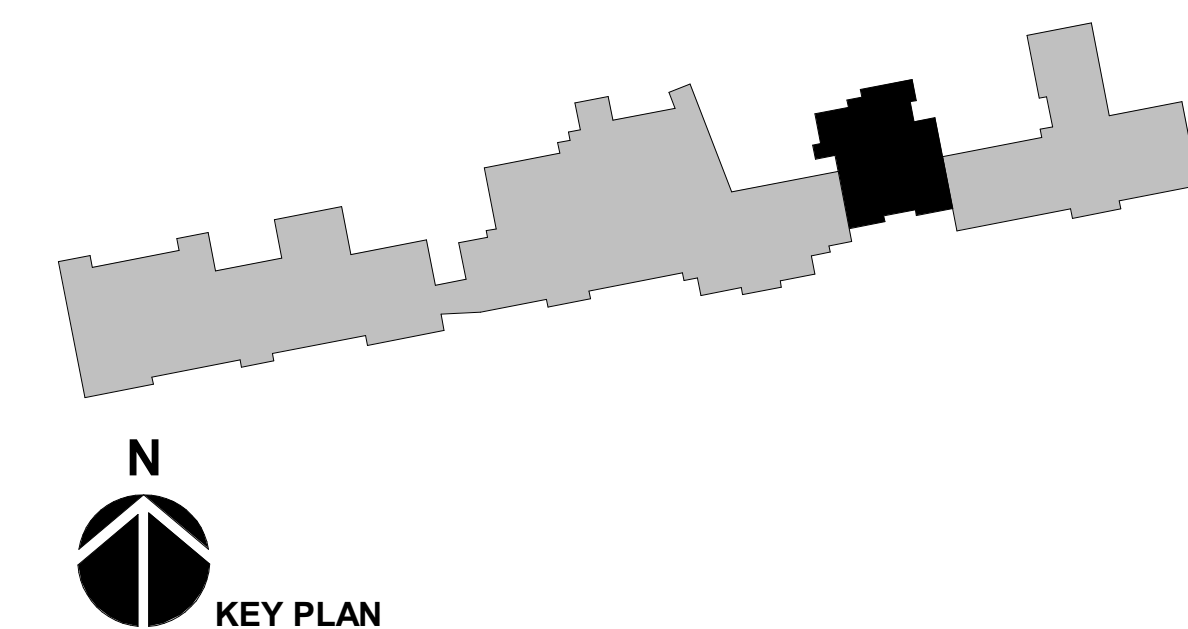
APPROVED BY: MP

SHEET TITLE:

**FIRST FLOOR
REFLECTED CEILING
PLAN**

A-121

SHEET OF



ACCESSORY SCHEDULE-VISUAL DISPLAY UNITS					
CSI DIV #	CSI DIV NAME	Type Mark	DESCRIPTION	DIMENSIONS	REMARKS
10 1100	VISUAL DISPLAY UNITS	VD-1	CLARIDGE PORCELAIN MARKERBOARD	4'-0" X 6'-0"	

FLOOR FINISH LEGEND	
	CPT 1
	CPT 2
	CPT 3
	LVT
	SC-1

SHEET NOTES - FINISH PLANS	
NOTE #	NOTE
1	VENDING MACHINE, OFCI
2	LCD MONITOR
3	(2) UNDERCOUNTER MICROWAVE, OFCI
4	(1) UNDERCOUNTER REF. OFCI
5	SLIDING BARN DOOR

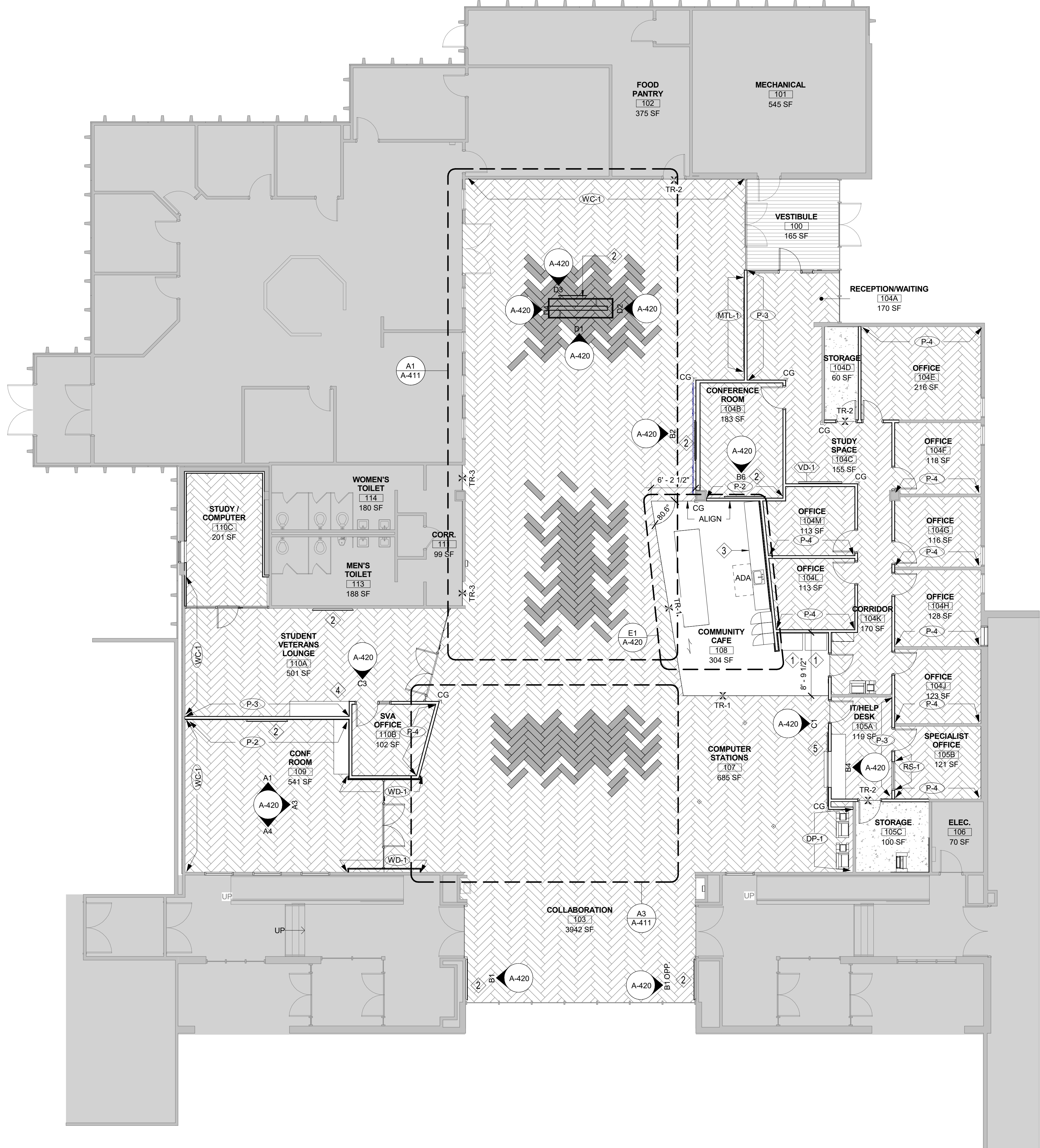
- ### FINISH PLAN GENERAL NOTES
- THE FOLLOWING INTERIOR FINISHES ARE LOCATED THROUGHOUT THE SCOPE OF WORK, UNLESS NOTED OTHERWISE, REFER TO INTERIOR FINISH LEGEND FOR SPECIFICATION:
 - ALL INTERIOR WALLS TO BE PAINTED P-1
 - CARPET THROUGHOUT TO BE CPT-1
 - BASE THROUGHOUT TO BE RB-1
 - ALL WINDOW SILLS TO BE SS-1
 - ALL HM DOOR FRAMES TO BE PAINTED P-6
 - ALL FLOOR MATERIALS TO BE BUTT JOINTED AT TRANSITIONS ON CENTER OF DOOR WHERE APPLICABLE. UNO, PROVIDE EDGE PROTECTION AND TRANSITION PROFILES WHERE FLOOR MATERIAL CHANGES AND/OR STOPS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - PAINT ALL (EXPOSED PIPES, AIR GRILLES, ETC.) TO MATCH ADJACENT WALL COLOR.
 - ALL WALL (MOUNTED CASEWORK, MILLWORK, HARDWARE, EQUIPMENT, ETC.) SHALL BE ANCHORED TO METAL STRAPPING OR 1/2" FRT PLYWOOD BACKING BETWEEN STUDS, U.N.O. COORDINATE ACCORDINGLY.
 - REFER TO A-400 SHEETS AND OTHER DRAWINGS IN ADDITION TO THE FINISH PLANS AND KEYNOTE LEGEND FOR THE FULL EXTENT OF INTERIOR FINISHES.
 - ALL FLOORING MATERIALS CONTINUE UNDER CASEWORK TO TOE KICK OR IF OPEN, TO WALL.
 - REPLACE ALL EXISTING VINYL CORNER GUARDS.

FINISH SYMBOL LEGEND	
	WALL FINISH SYMBOL
	CEILING FINISH SYMBOL
	SHEET NOTE SYMBOL
	CORNER GUARD
	PATTERN DIRECTION
	TRANSITION TAG

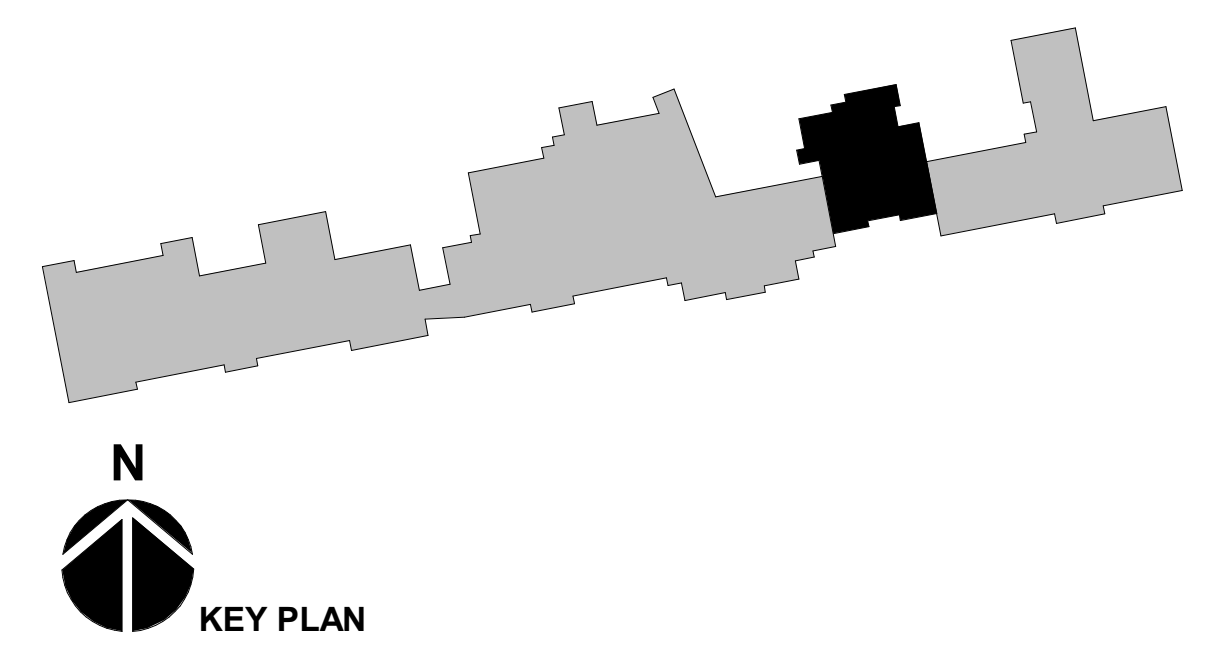
FLOOR TRANSITION LEGEND	
TR-1	CARPET - LVT
TR-2	CARPET - CONCRETE
TR-3	CARPET - PORCELAIN TILE

CSI SECTION NUMBER	CSI SECTION NAME	TYPE	CODE	MANUFACTURER	PRODUCT	SIZE	COLOR	CONTACT	REMARKS
DIVISION 8									
06 2023	INTERIOR FINISH CARPENTRY	DECORATIVE METAL PANELS	DP-1	FORMS & SURFACES	FUSED METAL - DALLAS	48X120 SHEET	GRAPHITE DIAMOND	CHAD SCHAEFER chad.schaefer@forms-surfaces.com	0625" THICK
06 2023	INTERIOR FINISH CARPENTRY	RECLAIMED WYOMING LICENSE MILLWORKER	MTL-1	LOCAL ARTIST OR MILLWORKER	PLATE SIZES OF EQUAL DIMENSIONS WITH A VARIETY OF STYLES AND COLORS	-	-	-	SCREW ATTACHMENT AT PAINTED PLYWOOD BACKER WITH 1/2" SPACING
06 2023	INTERIOR FINISH CARPENTRY	WOOD BOARD PANELING	WD-1	PIONEER MILLWORKS	MIXED HARDWOODS	34X4	SETTLERS' PLANT	-	-
06 4116	PLASTIC LAMINATE FACED ARCHITECTURAL CABINETS	PLASTIC LAMINATE (VERTICAL)	PL-1	WILSONART	HIGH LINE	-	7970K-18	BRYNN BISHOP brynn.bishop@wilsonart.com	-
DIVISION 9									
09 3013	CERAMIC TILING	CERAMIC TILE	CT-1	CROSSVILLE	CRUX BY STILE	12X24	EARTH	JESSICA MAGEE jmagee@crossvillestudios.com	-
09 5113	ACOUSTICAL PANEL CEILINGS	ACOUSTICAL CEILING	ACP-1	ARMSTRONG	895 FISSURED	24X48	-	KELLY HEDLUND khedlund@armstrongceilings.com	-
09 5133	ACOUSTICAL METAL PAN CEILINGS	METAL CEILING	MTL-2	ARMSTRONG	6188 METALWORKS OPEN CELL	24X24 PANEL	RAL 7032 PEBBLE GREY	-	3" CELL SIZE. INSTALLS AS A LOCK-IN SYSTEM OF UNFRAMED OPEN CELL PANELS THAT CONNECT TO MOUNTINGS AND CROSS RAILS FOR A SELF-SUSPENDING SYSTEM. NO OTHER SUSPENSION SYSTEM REQUIRED.
09 6513	RESILIENT BASE AND ACCESSORIES	RESILIENT BASE	RB-1	JOHNSONITE	RUBBER BASE	4" COVE, ROLLED GOODS	63 BURNT UMBER	-	-
09 6519	RESILIENT TILE FLOORING	LUXURY VINYL TILE	LVT-1	ARMSTRONG	NATURAL CREATIONS, MYSTIX SPETTRO	6X36	NA 931 CASPIAN SAND	KRISTIN KNIGHT krknight@armstrongflooring.com	BRICK ASHLAR INSTALLATION
09 6813	TILE CARPETING	CARPET (FIELD)	CPT-1	MILLIKEN	COLOR FIELD	TBD	COL122 PALE GULL	SHANNON WILSON shannon.wilson@milliken.com	HERRINGBONE INSTALLATION
09 6813		CARPET (ACCENT)	CPT-2	MILLIKEN	COLOR FIELD	TBD	COL182-94-48 OIL SLUE	-	HERRINGBONE INSTALLATION
09 6813		CARPET (WALK-OFF)	CPT-3	TANDUS	GEO CARPET #979	24X24	CHARCOAL #00154	PAM HEITMAN pamela.heitman@tarkett.com	-
09 7200	WALL COVERING	VINYL WITH CUSTOM PRINTED GRAPHIC	WC-1	MAHARAM	TEXTURED	54"	TBD	-	CUSTOM GRAPHIC PROVIDED BY ARCHITECT AS A PRINT-READY ELECTRONIC FILE.
09 9123	INTERIOR PAINTING	PAINT (FIELD)	P-1	SHERWIN WILLIAMS	EGGSHELL	-	SW 7005 PURE WHITE	PETER KREMM Peter.Kreem@sherwin.com	-
09 9123		PAINT (ACCENT)	P-2	SHERWIN WILLIAMS	EGGSHELL	-	SW 6244 NAVAL	-	-
09 9123		PAINT (ACCENT)	P-3	SHERWIN WILLIAMS	EGGSHELL	-	SW 6520 GRANITE PEAK	-	-
09 9123		PAINT (ACCENT)	P-4	SHERWIN WILLIAMS	EGGSHELL	-	SW 9026 TARNISHED TRUMPET	-	-
09 9123		PAINT (CEILING)	P-5	SHERWIN WILLIAMS	FLAT	-	SW 7005 PURE WHITE	-	-
09 9123		PAINT (DOOR FRAME)	P-6	SHERWIN WILLIAMS	SEMI-GLOSS	-	SW 6990 CAVIAR	-	-
09 9123		PAINT (STRUCTURE)	P-7	SHERWIN WILLIAMS	FLAT	-	SW 6990 CAVIAR	-	-
09 9123		CHALKBOARD PAINT	P-8	TBD	TBD	-	TBD	-	-
09 9123	INTERIOR PAINTING	SEALED CONCRETE	SC-1	-	-	-	MATTE	-	-
DIVISION 10									
10 1100	VISUAL DISPLAY UNITS	PORCELAIN MARKERBOARD	VD-1	CLARIDGE	TBD	-	TBD	-	-
DIVISION 12									
12 2413	ROLLER WINDOW SHADES	ROLLER SHADES	RS-1	MECCOSHADE	TBD	TBD	TBD	-	-
12 3661.16	SOLID SURFACING	SOLID SURFACE COUNTERTOP	SS-1	DU PONT	CORIAN	1/2" THICK	CLAM SHELL	-	-

ROOM FINISH SCHEDULE						
ROOM NUMBER	ROOM NAME	FLOOR	FINISH		MILLWORK	
			BASE	WALL	HORIZONTAL	VERTICAL
100	VESTIBULE	CPT-3	RB-1	P-1		
103	COLLABORATION	CPT-1, CPT-2	RB-1	P-1, MTL-1, WC-1		FIREPLACE: CT-1, WD-1
104A	RECEPTION/WAITING	CPT-1	RB-1	P-1, P-3		
104B	CONFERENCE ROOM	CPT-1	RB-1	P-1, P-2, WD-1		
104C	STUDY SPACE	CPT-1	RB-1	P-1		
104D	STORAGE	SC-1	RB-1	P-1		
104E	OFFICE	CPT-1	RB-1	P-1, P-4		
104F	OFFICE	CPT-1	RB-1	P-1, P-4		
104G	OFFICE	CPT-1	RB-1	P-1, P-4		
104H	OFFICE	CPT-1	RB-1	P-1, P-4		
104J	OFFICE	CPT-1	RB-1	P-1, P-4		
104K	CORRIDOR	CPT-1	RB-1	P-1		
104L	OFFICE	CPT-1	RB-1	P-1, P-4		
104M	OFFICE	CPT-1	RB-1	P-1, P-4		
105A	IT/HELP DESK	CPT-1	RB-1	P-1, P-3	SS-1	PL-1
105B	SPECIALIST OFFICE	CPT-1	RB-1	P-1, P-4	RS-1	
105C	STORAGE	SC-1	RB-1	P-1		
107	COMPUTER STATIONS	CPT-1	RB-1	P-1		
108	COMMUNITY CAFE	LVT-1	RB-1	WD-1, P-3	SS-1	PL-1
109	CONF ROOM	CPT-1	RB-1	P-1, P-2, WC-1	SS-1	PL-1
110A	STUDENT VETERANS LOUNGE	CPT-1	RB-1	P-1, P-3, WC-1	SS-1	PL-1
110B	SVA OFFICE	CPT-1	RB-1	P-1, P-4		
110C	STUDY/COMPUTER	CPT-1	RB-1	P-1		



A1 FIRST FLOOR FINISH PLAN
1/8" = 1'-0"



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Denver, CO. 80202
P. 303.607.0977
www.hcm2.com

CONSULTANT:

LICENSED ARCHITECT
MATTHEW D. DODD
C-2559
STATE OF WYOMING

PROJECT:
CROSSROADS BUILDING RENOVATION
1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

OWNER:
LARAMIE COUNTY COMMUNITY COLLEGE
1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

ISSUE:
1.4.2018 CONTRACT DOCUMENTS

DRAWING INFORMATION:
PROJECT NO: 11738.001
DRAWN BY: TM
CHECKED BY: TW
APPROVED BY: MP
SHEET TITLE:
FIRST FLOOR FINISH PLAN

A-141
SHEET OF

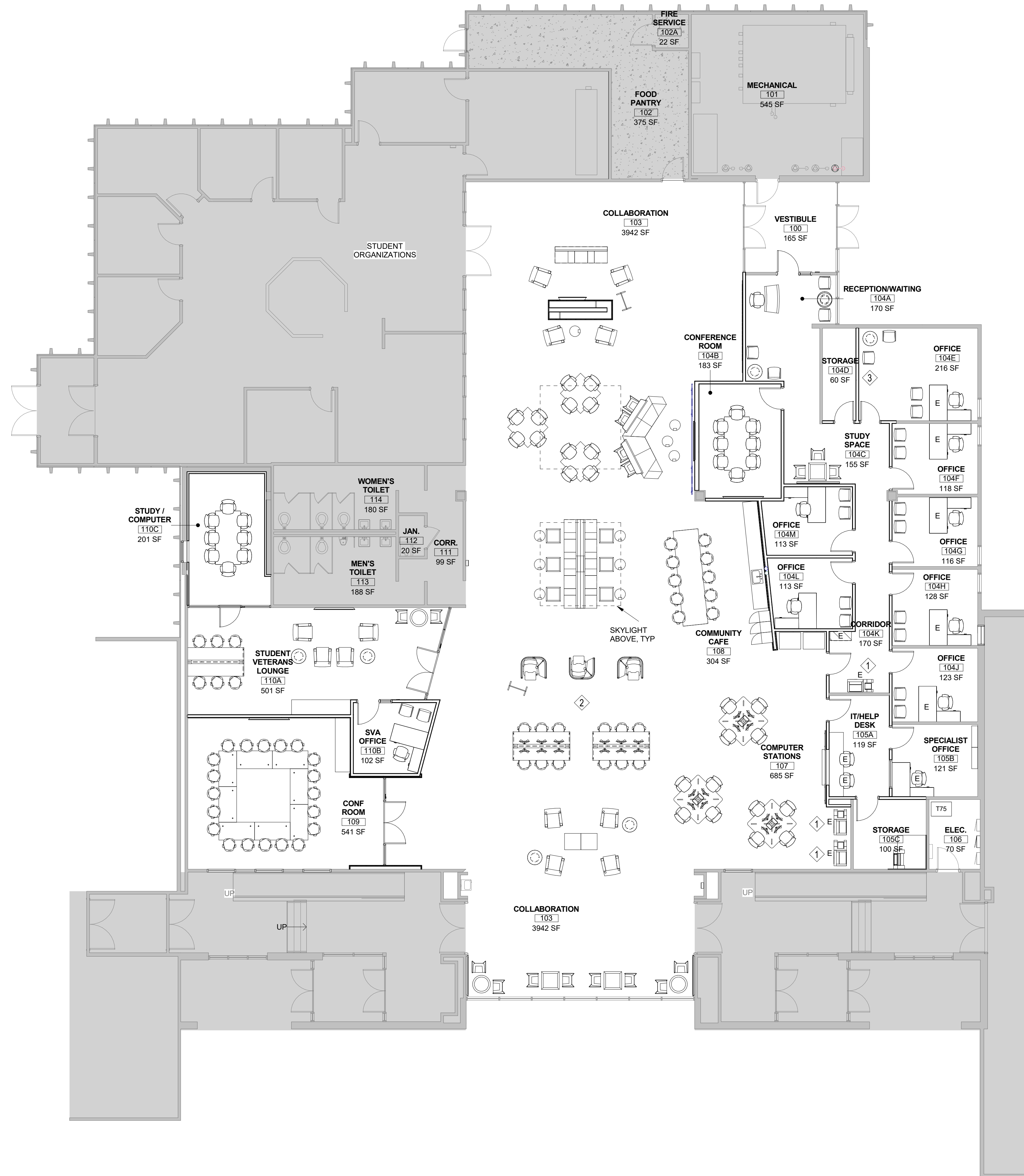
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FURNITURE GENERAL NOTES

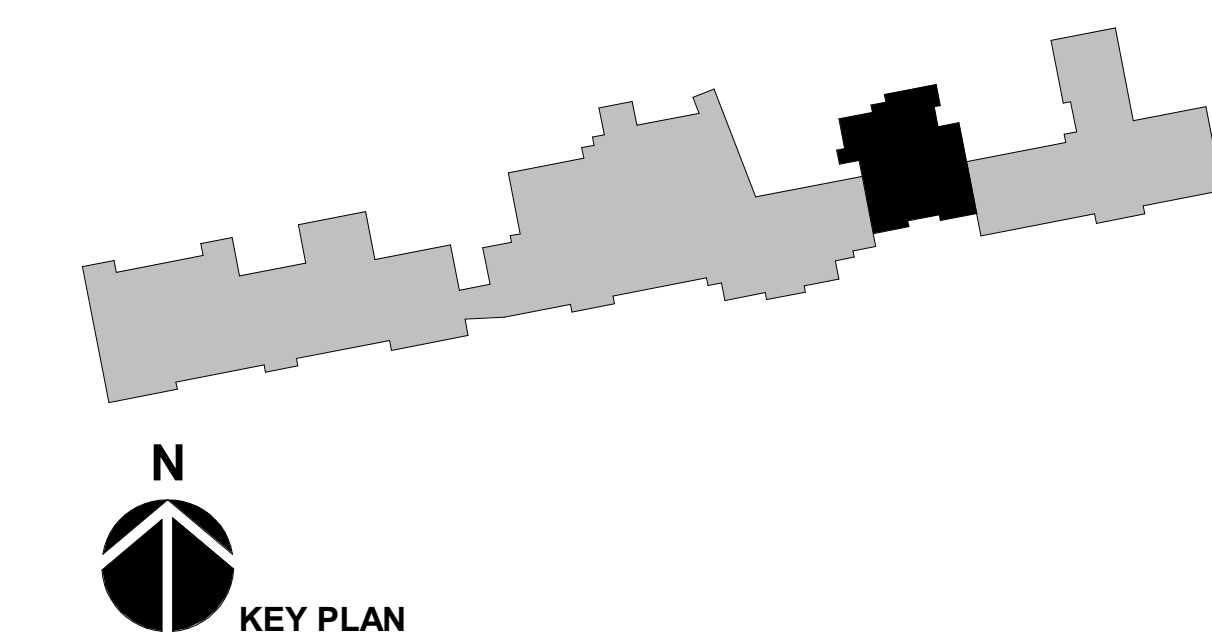
- DO NOT SCALE DRAWINGS. CONTACT ARCHITECT FOR DIMENSIONS.
- FURNITURE AS SHOWN BEST REPRESENTS HOW EACH SPACE IS INTENDED TO BE USED. FINAL SELECTIONS (AS PART OF FF&E) SIZES & LOCATIONS MAY DIFFER FROM DRAWINGS. WHEN COORDINATING ELECTRICAL & SIMILAR ITEMS BASED ON FURNITURE LAYOUT, CONFIRM WITH ARCHITECT & OWNER PRIOR TO PROCEEDING.
- DO NOT INSTALL FIRE STROBES & ALARMS AT (AREAS) WHERE ARTWORK OR WALL HUNG FF&E ITEMS ARE INDICATED. COORDINATE HEIGHTS WITH ARCHITECT.
- ALL FURNITURE SPECIFICATIONS TO BE COORDINATED WITH FURNITURE DEALER AND ARCHITECT.
- ALL FURNITURE PROCUREMENT TO BE COORDINATED WITH FURNITURE DEALER AND ARCHITECT.
- REFER TO ARCHITECTURAL & ELECTRICAL DRAWINGS FOR ALL DECORATIVE LIGHTING, WALL MOUNTED T.V.'s, CONFERENCE TABLES, ETC. REQUIRING HARDWIRING.
- FURNITURE NOTED WITH AN 'E' REPRESENTS PRODUCTS THAT ARE EXISTING.

SHEET NOTES - FURNITURE PLANS

NOTE #	NOTE
1	PRINTER, OFGI
2	ALL FURNITURE IS SHOWN FOR REFERENCE ONLY AND IS NOT PART OF THIS PROJECT SCOPE.
3	BUILT IN SHELVING TO REMAIN



A1 FIRST FLOOR FURNITURE PLAN
1/8" = 1'-0"



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PROJECT:

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1400 EAST COLLEGE DRIVE
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ISSUE:

1.4.2018 CONTRACT DOCUMENTS

DRAWING INFORMATION:

PROJECT NO: 11738.001

DRAWN BY: TM

CHECKED BY: TW

APPROVED BY: MP

SHEET TITLE:

**FIRST FLOOR
FURNITURE PLAN**

A-150

SHEET OF

CONSULTANT:



PROJECT:

**CROSSROADS
BUILDING
RENOVATION**

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

OWNER:

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PROJECT NO: 11738.001

DRAWN BY: CM

CHECKED BY: TW

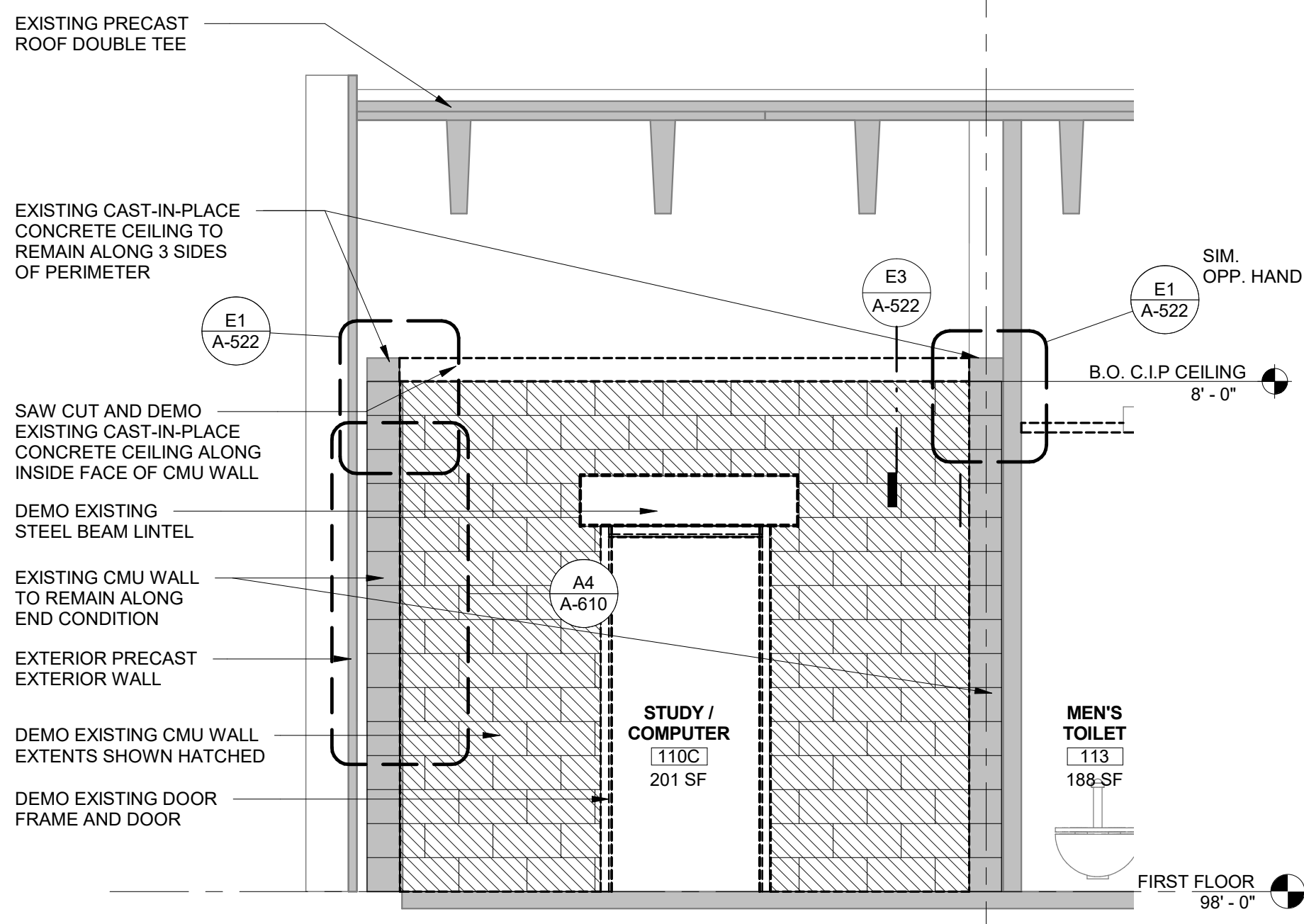
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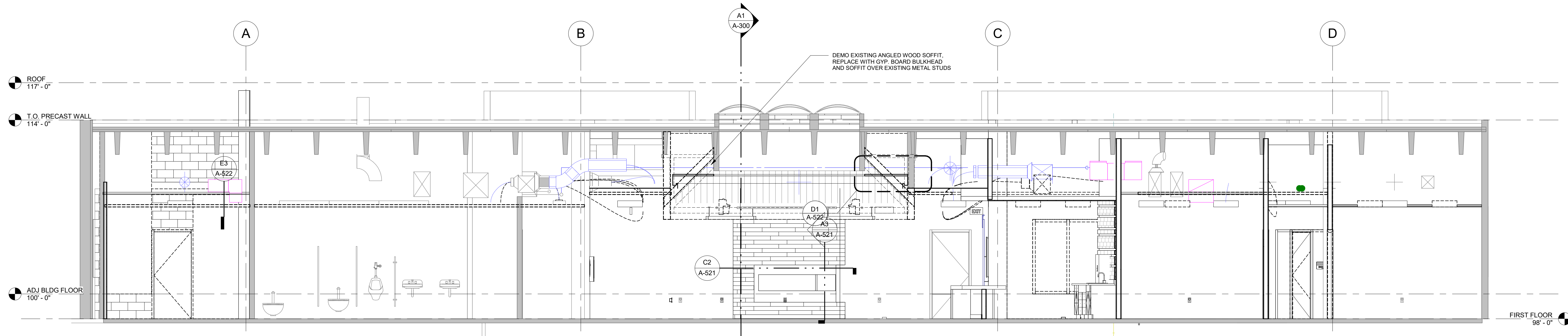
BUILDING SECTIONS

A-300

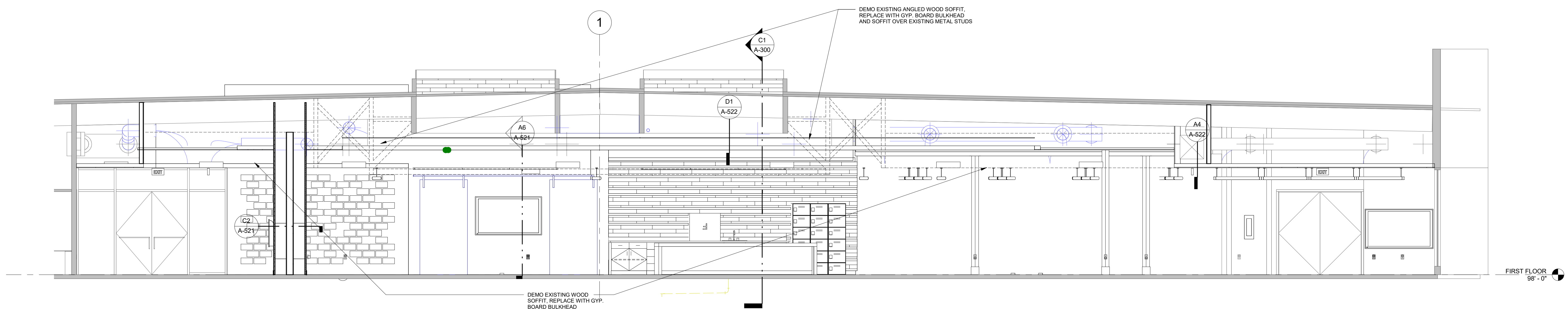
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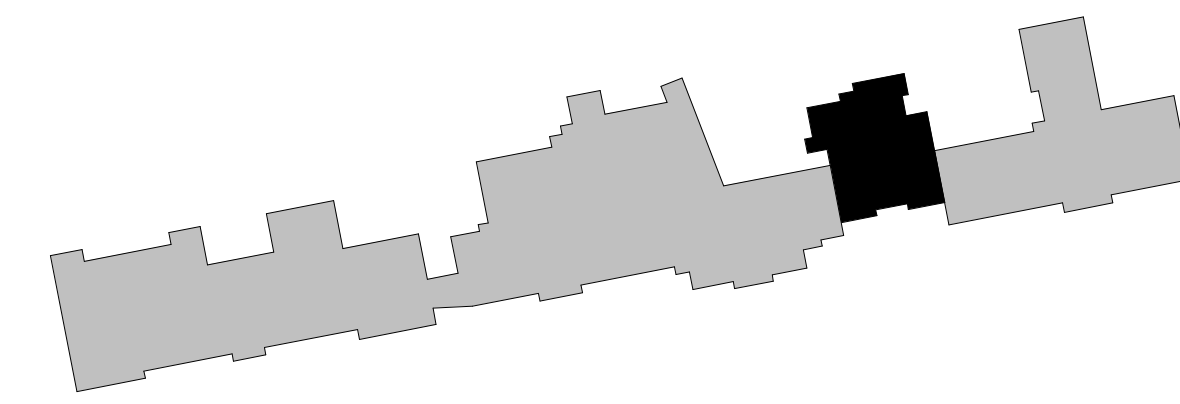
D1 WALL SECTION AT EXISTING VAULT
3/8" = 1'-0"



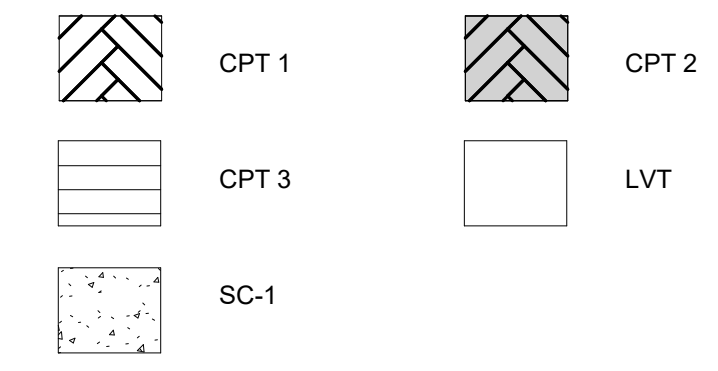
C1 BUILDING SECTION - EAST TO WEST
1/4" = 1'-0"



A1 BUILDING SECTION - NORTH TO SOUTH
1/4" = 1'-0"



FLOOR FINISH LEGEND



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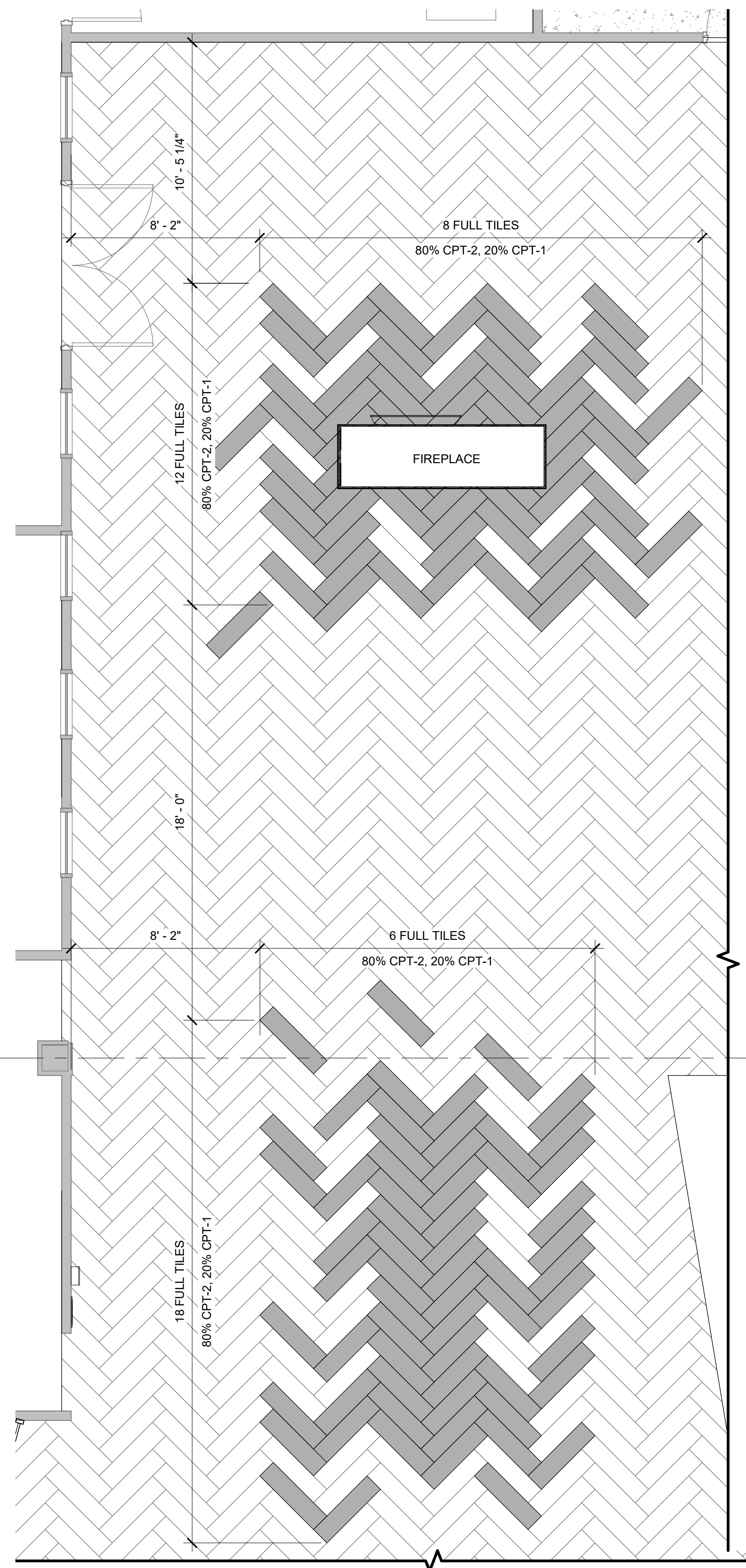
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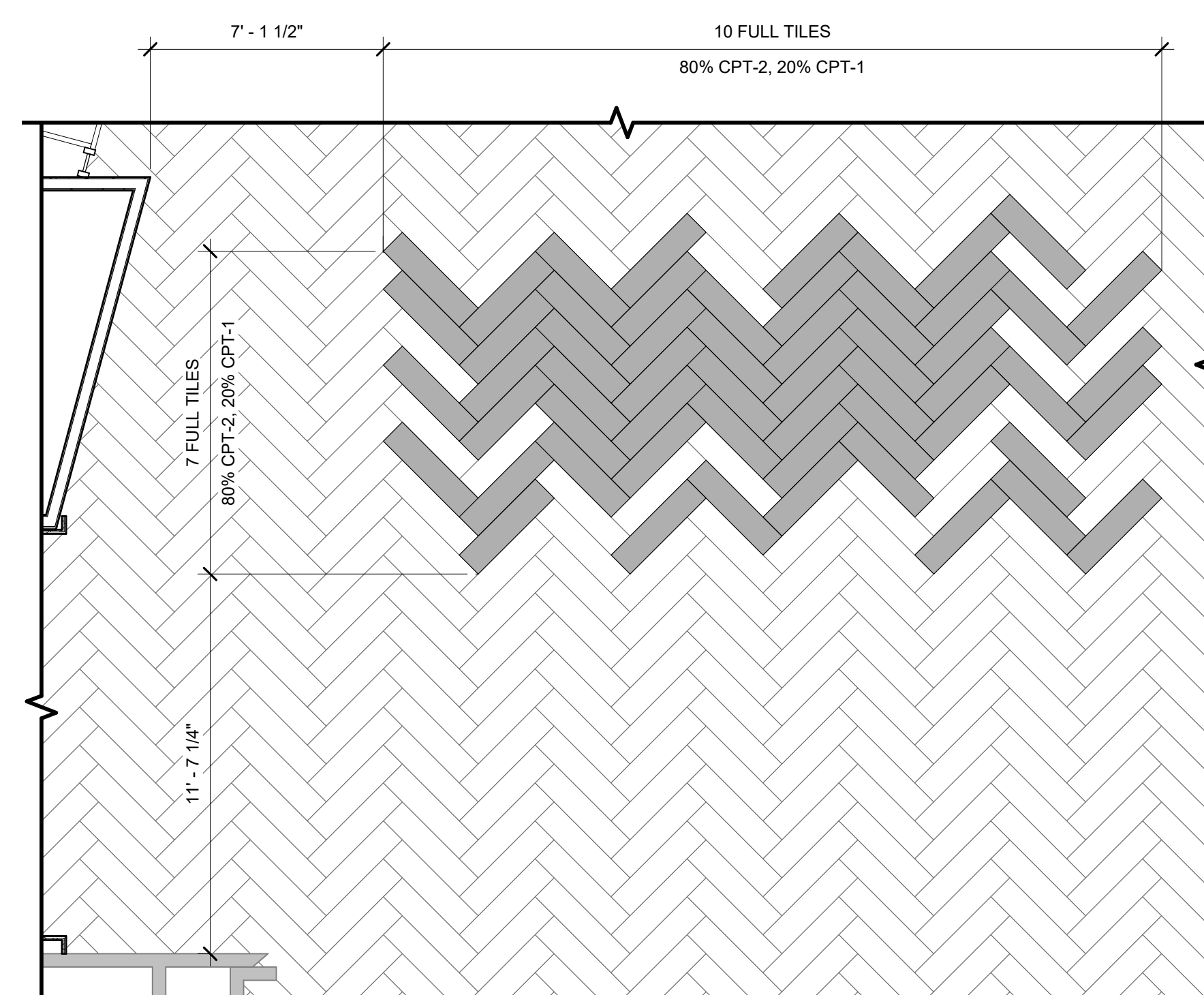
**ENLARGED FINISH
 PLAN AND DETAILS**

A-411

SHEET OF



A1 ENLARGED FINISH PLAN @ FIREPLACE
 1/4" = 1'-0"



**A3 ENLARGED FINISH PLAN @
 COLLABORATION 2**
 1/4" = 1'-0"

CONSULTANT:



PROJECT:

**CROSSROADS
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RENOVATION**

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PROJECT NO: 11738.001

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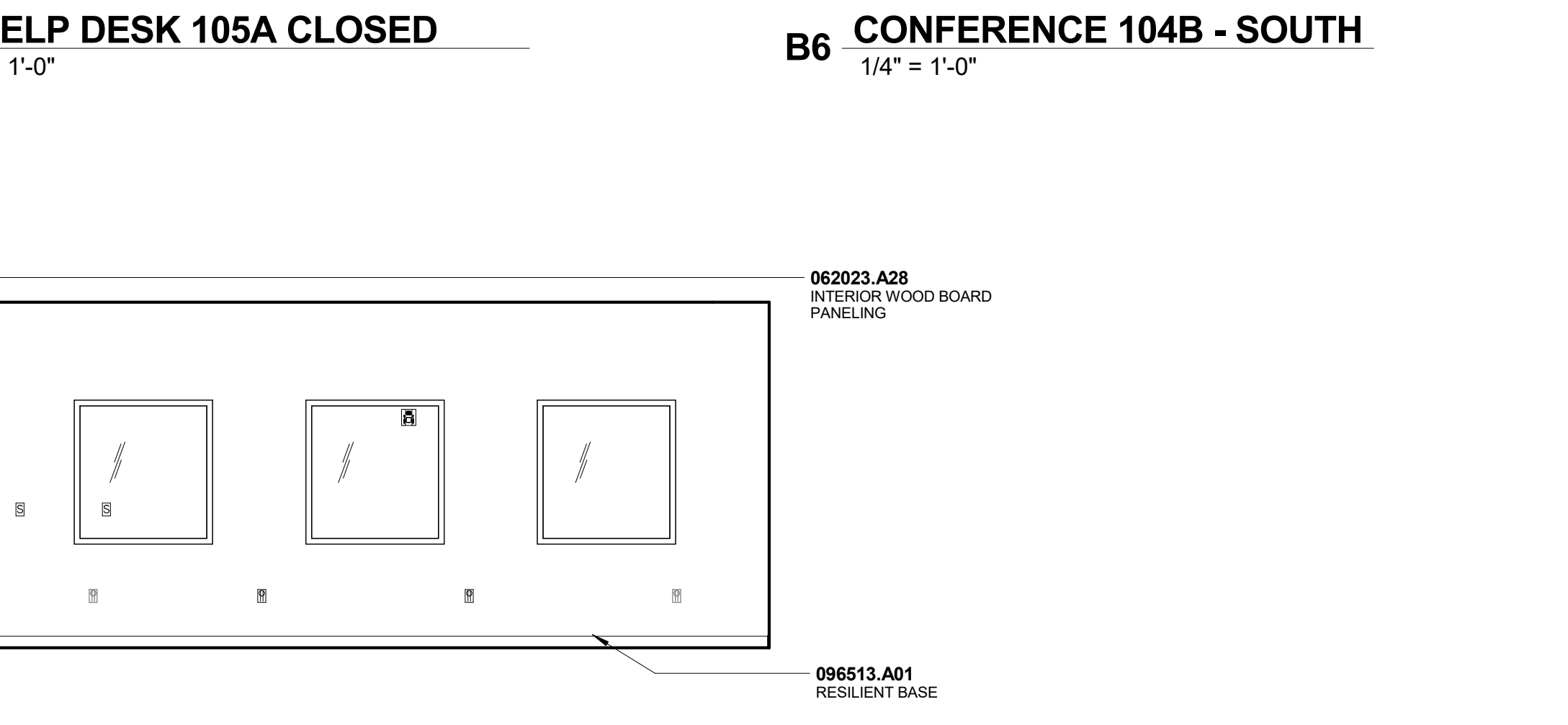
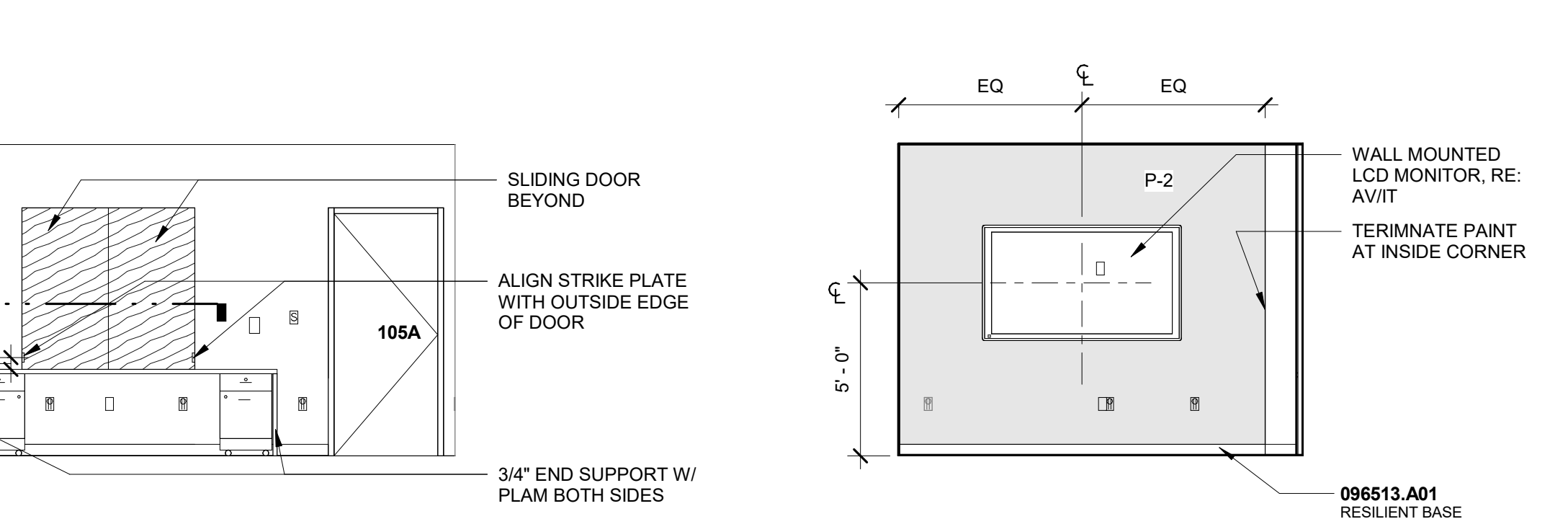
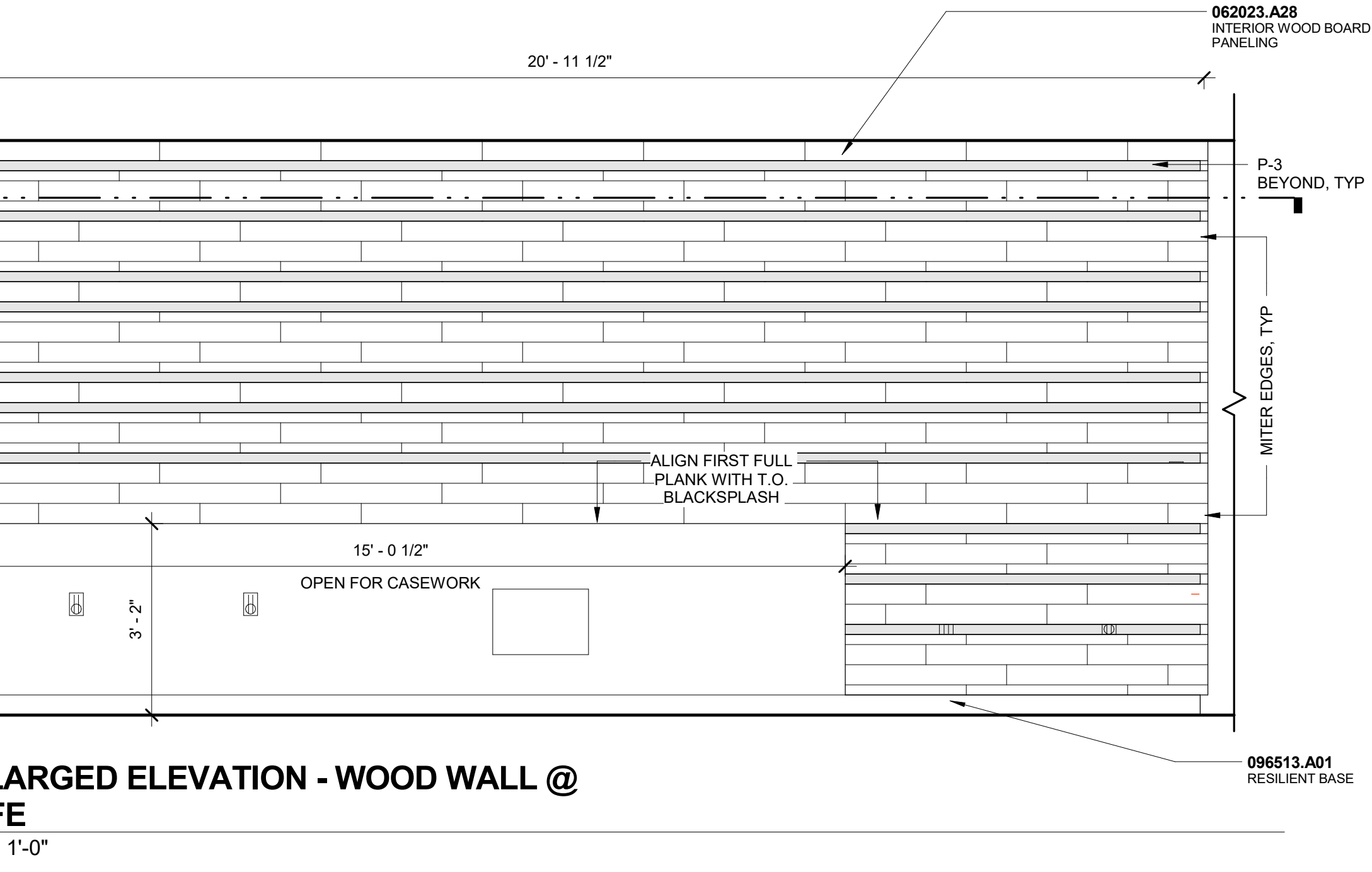
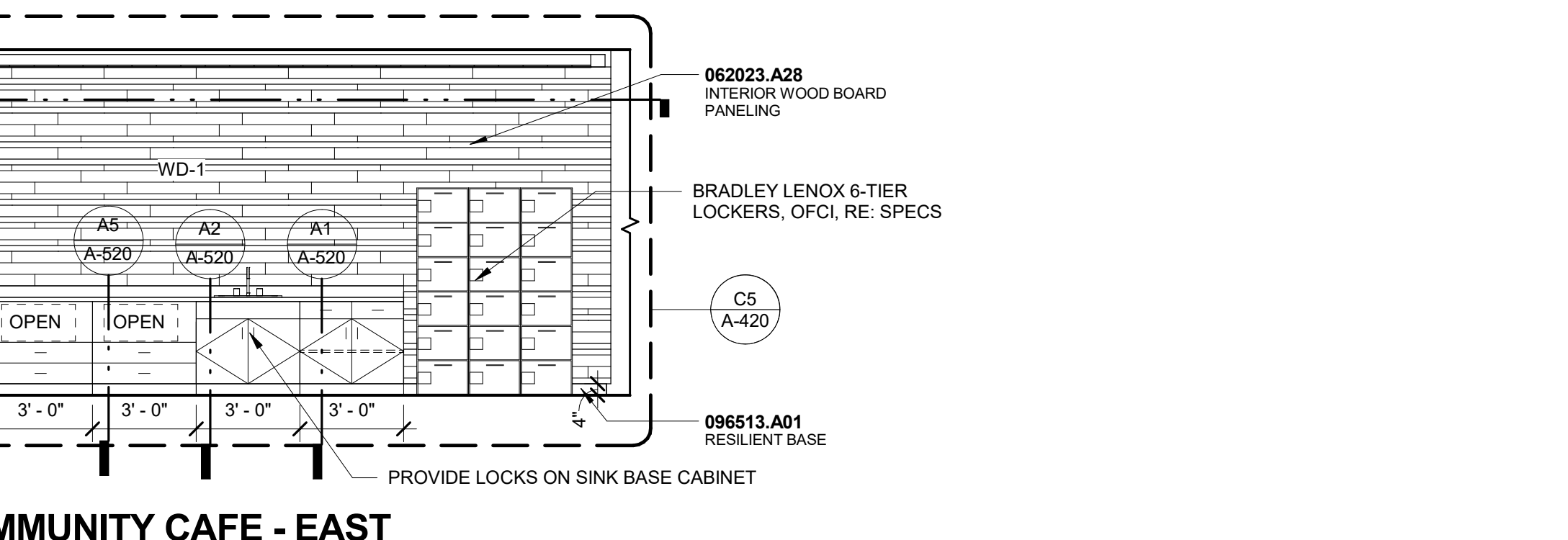
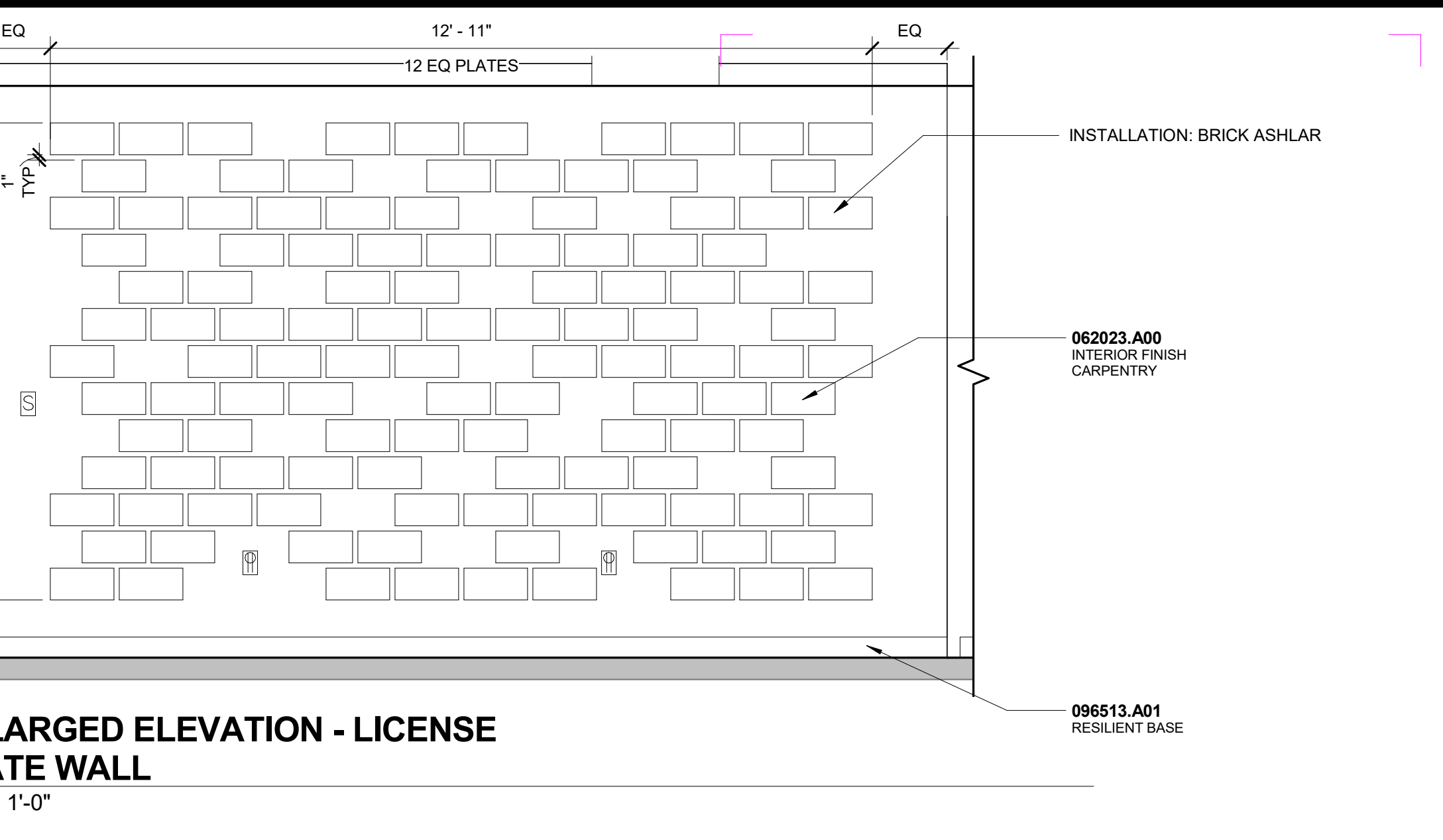
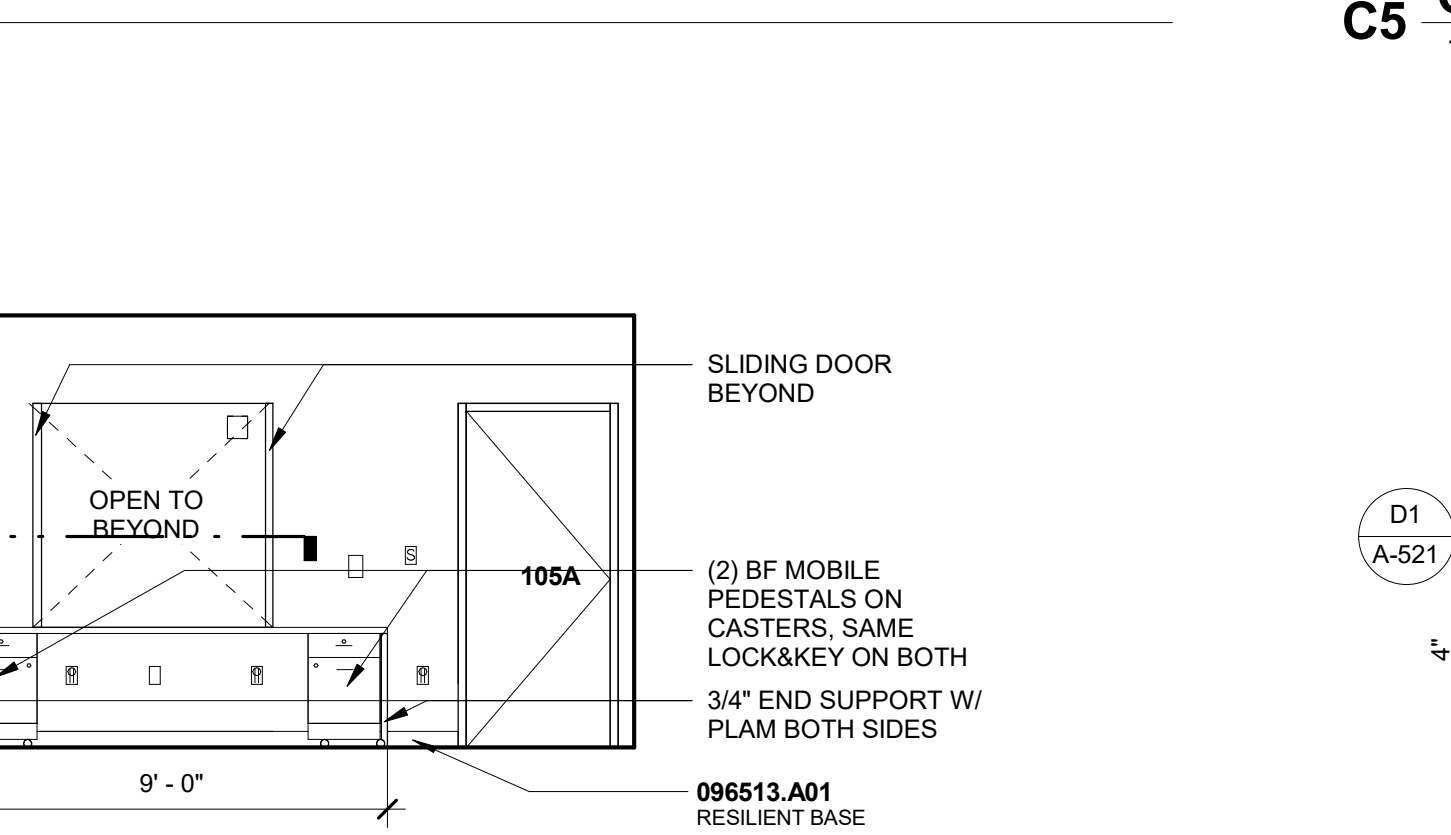
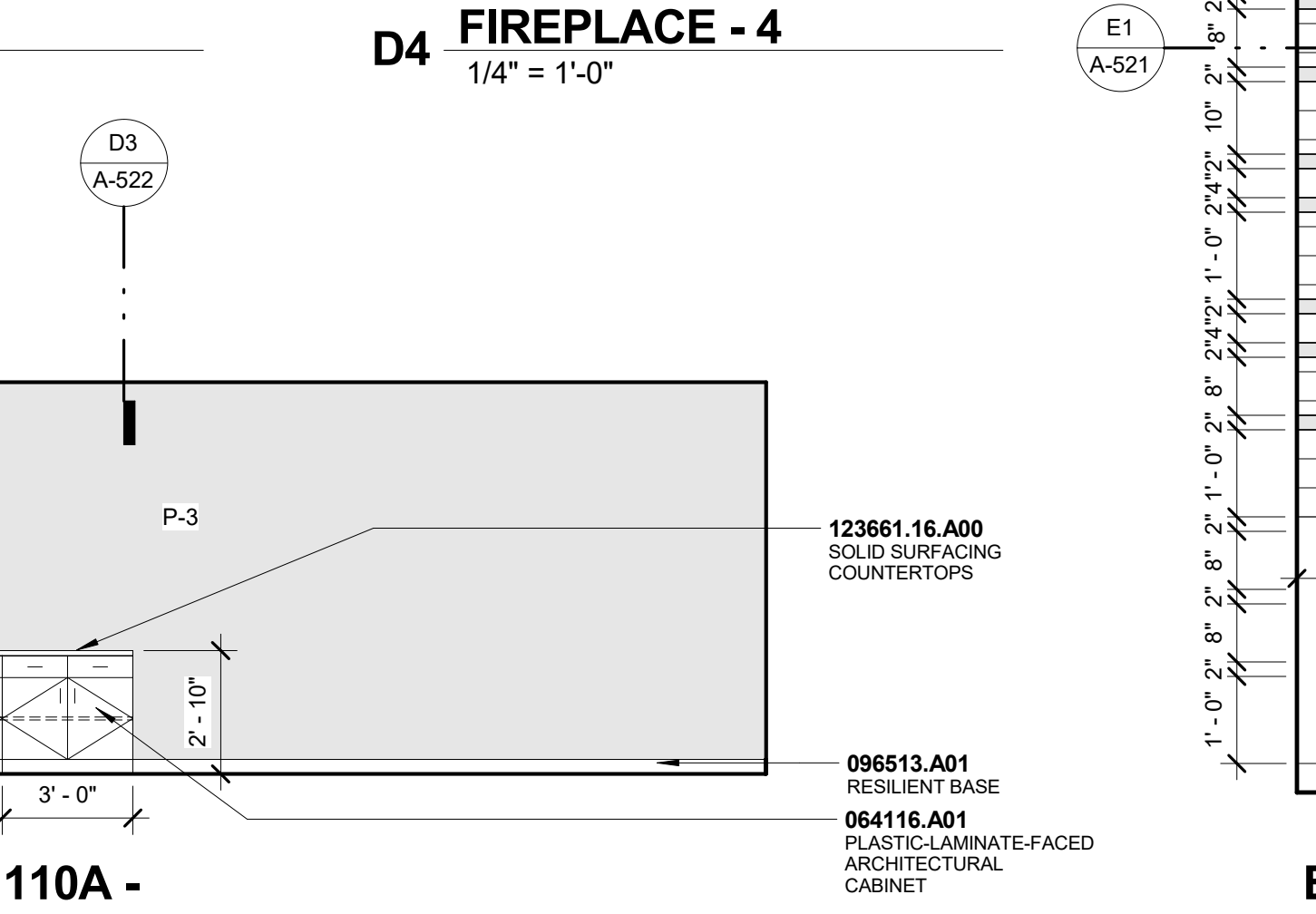
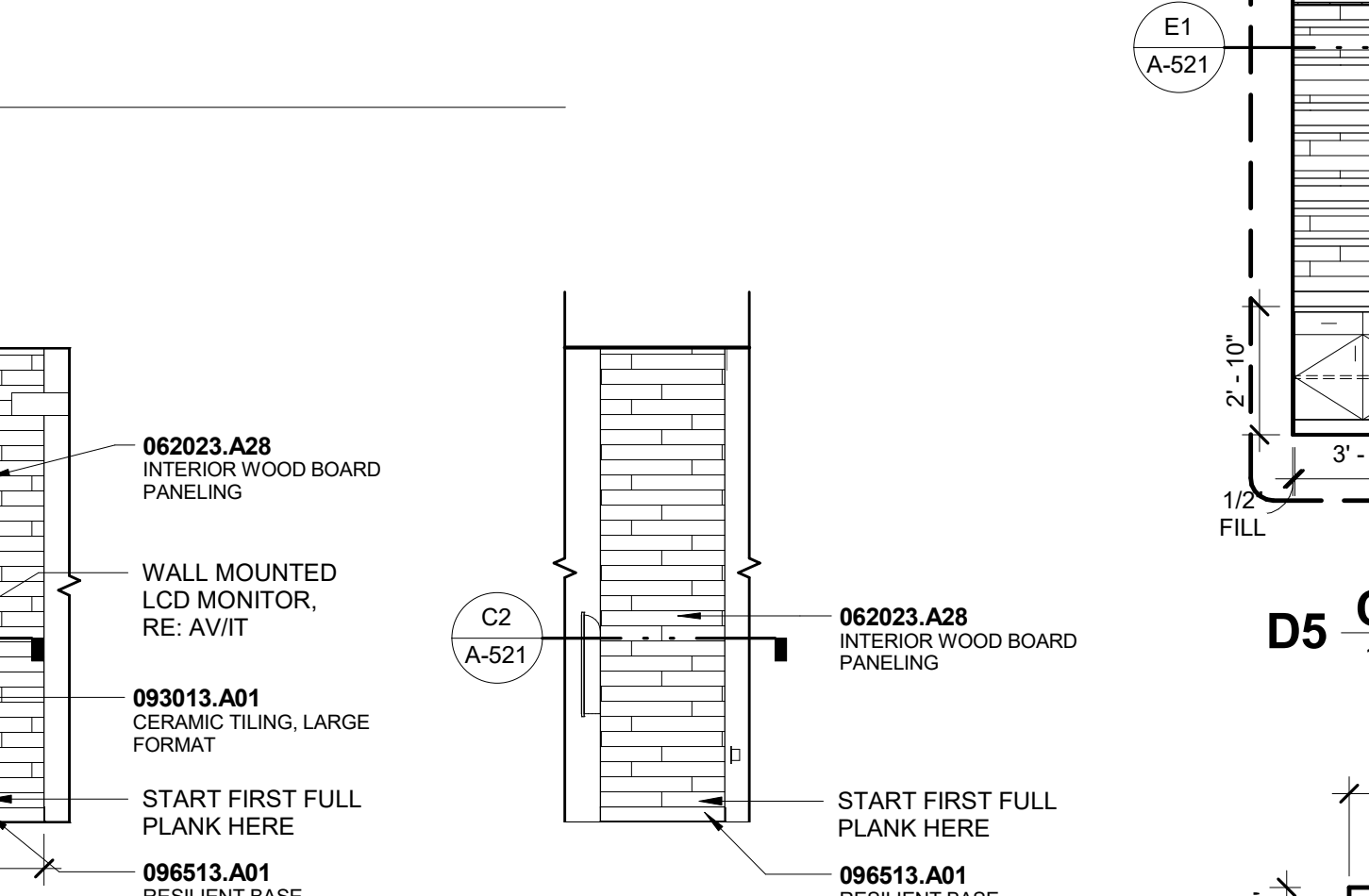
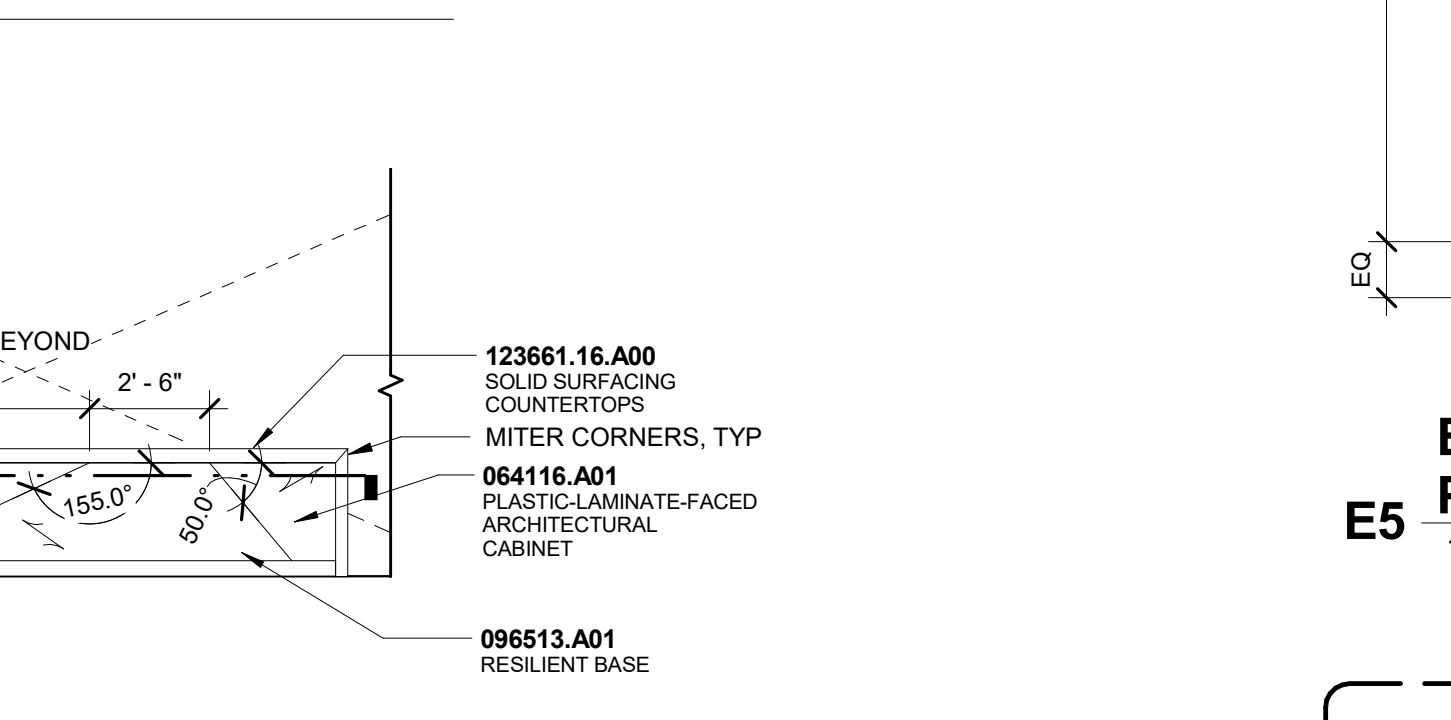
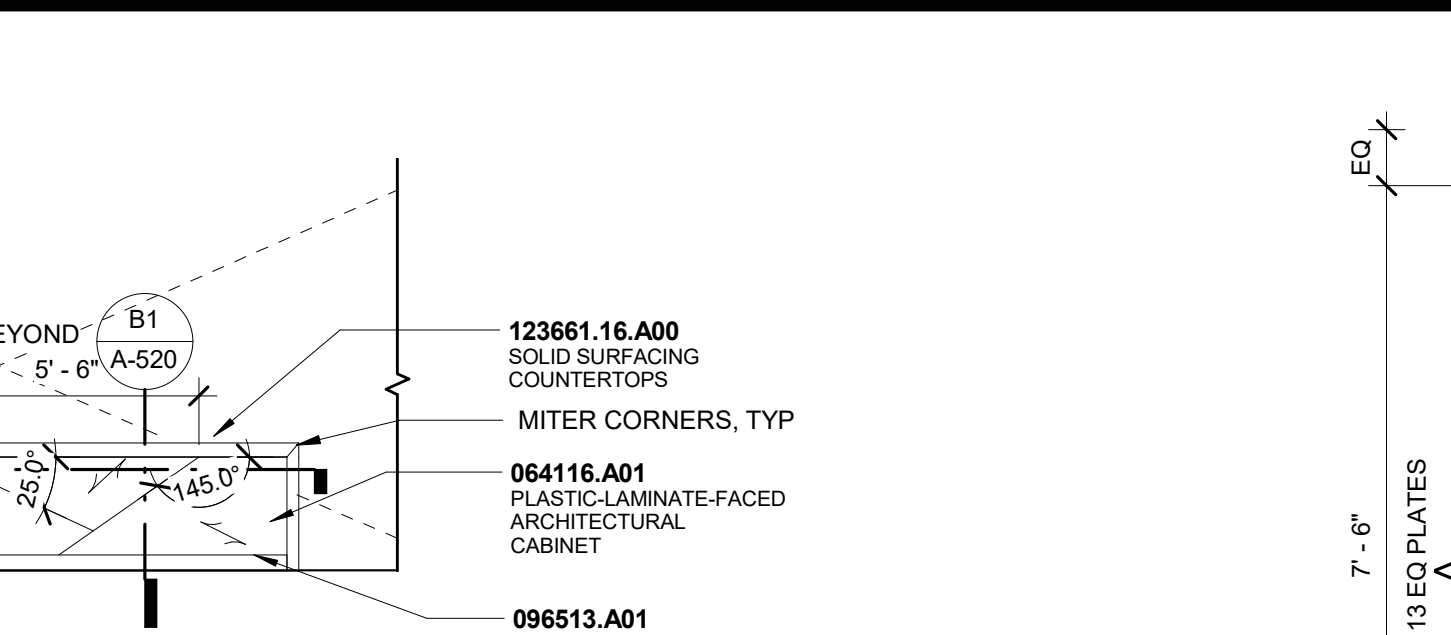
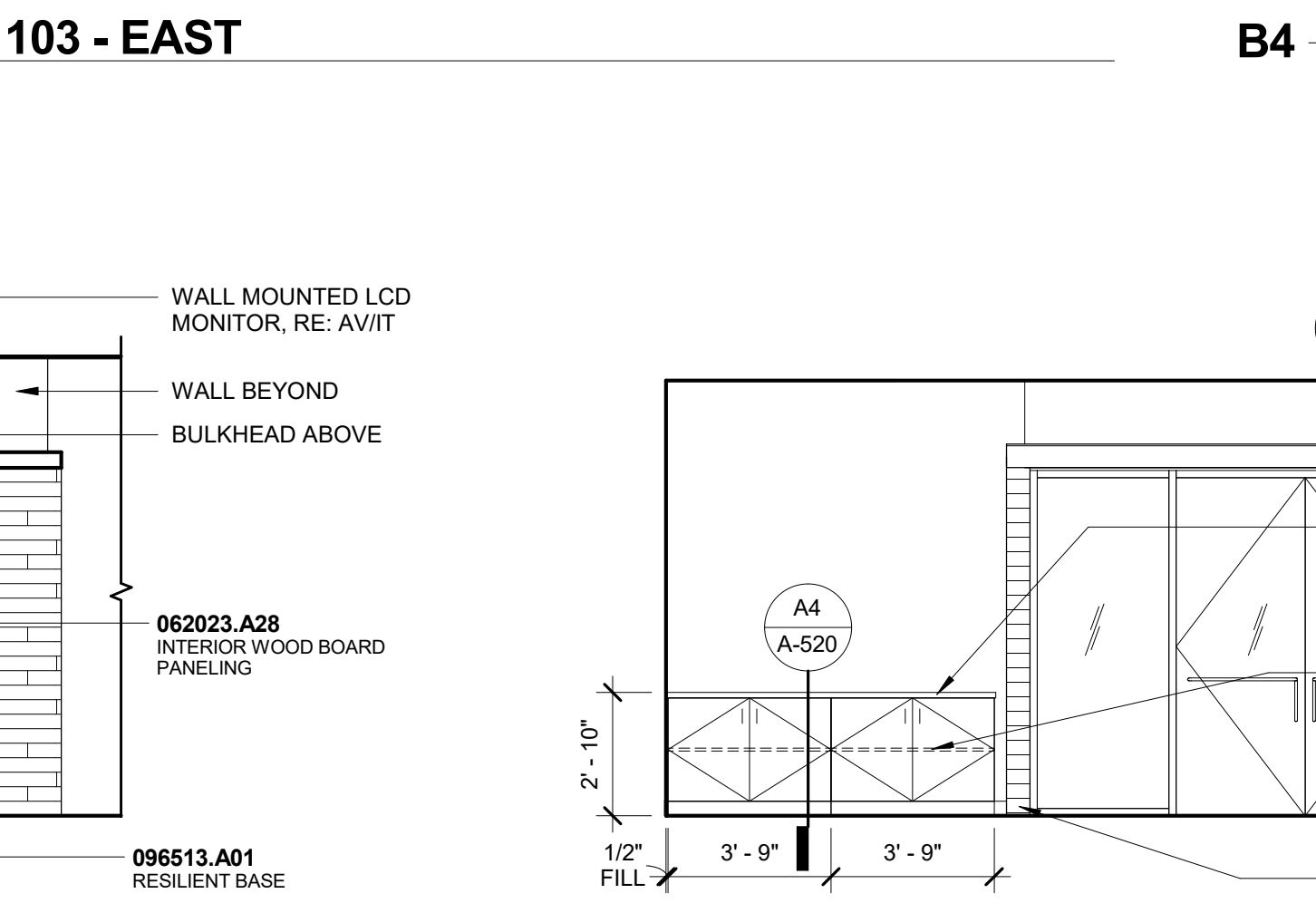
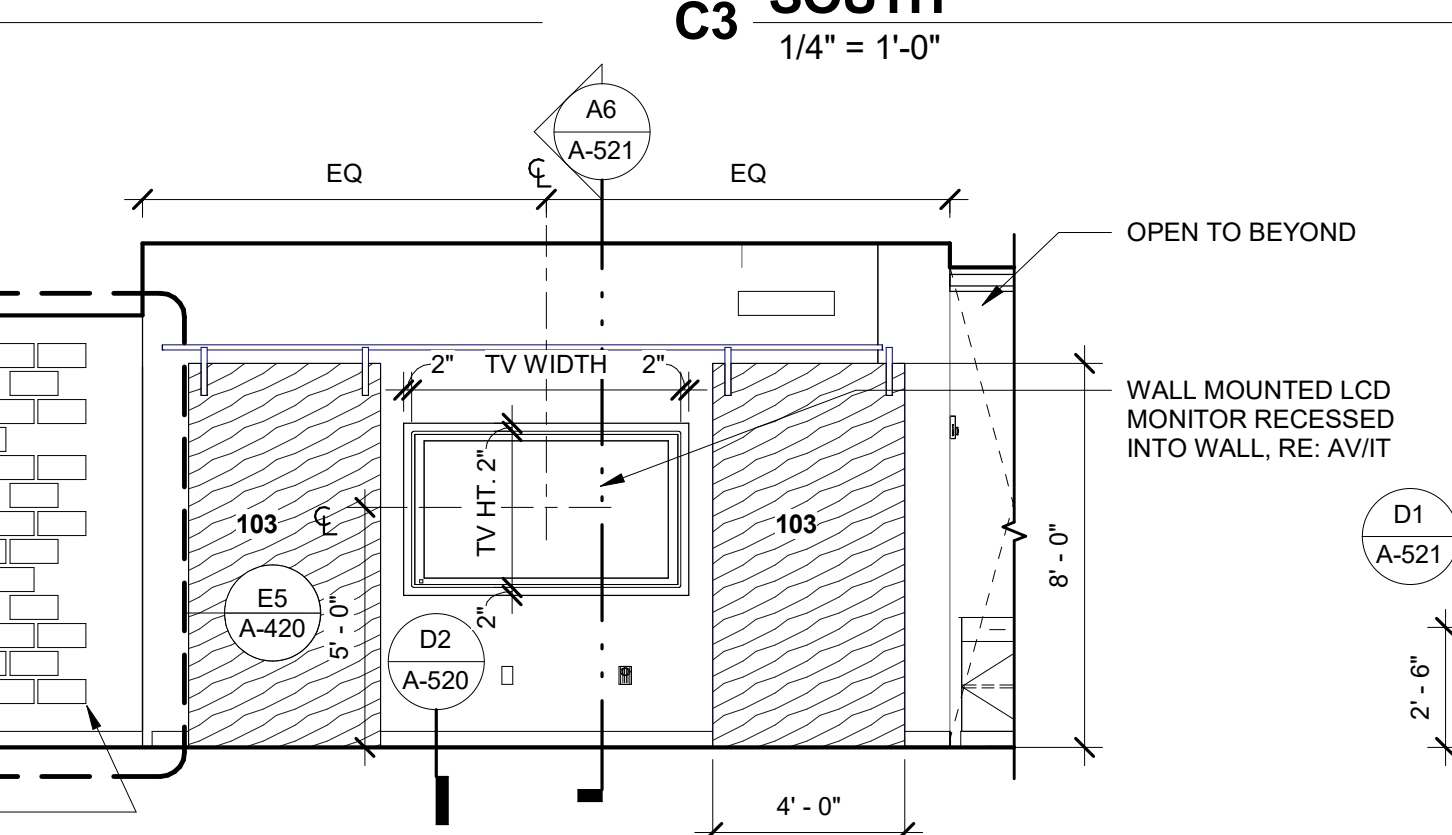
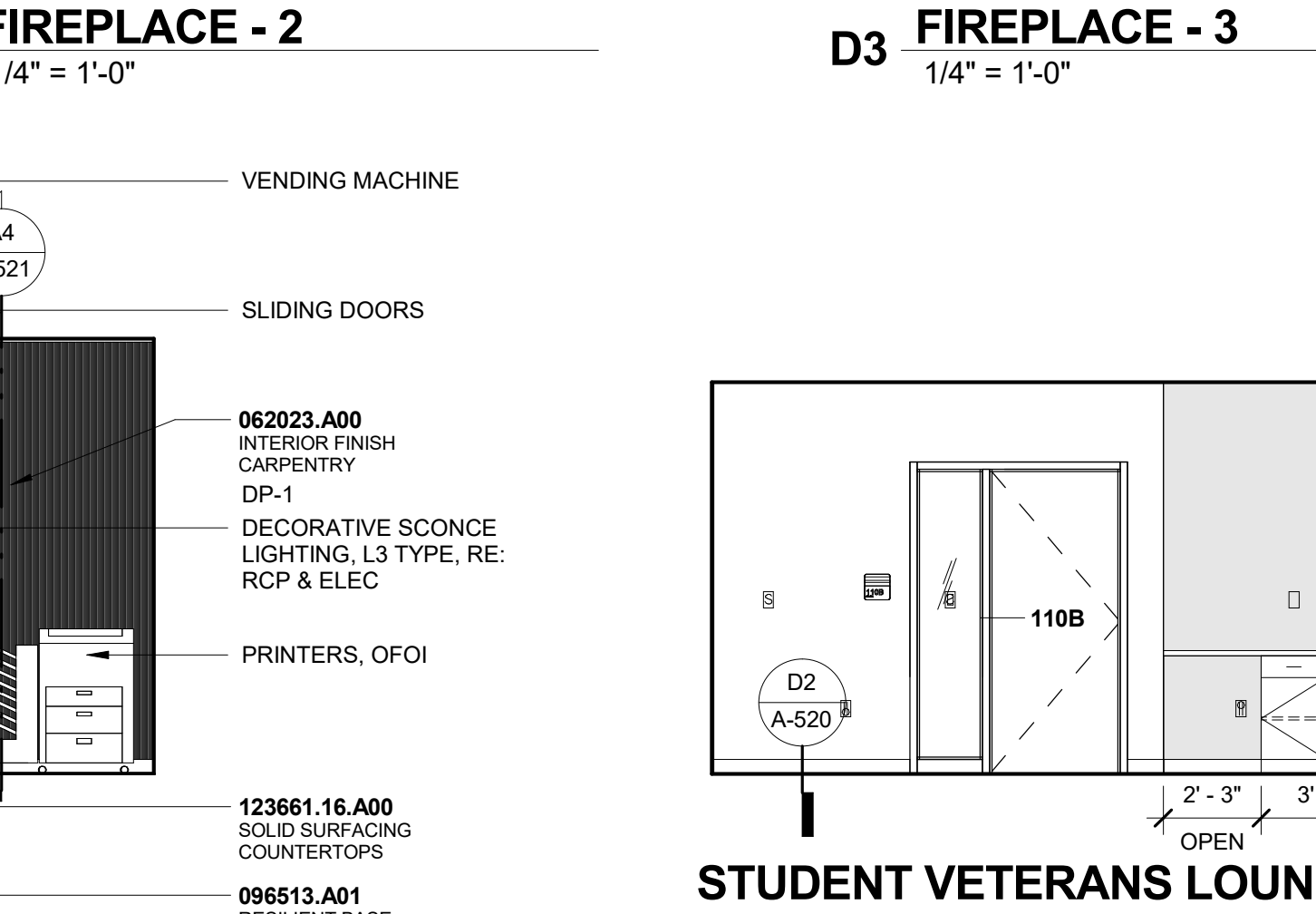
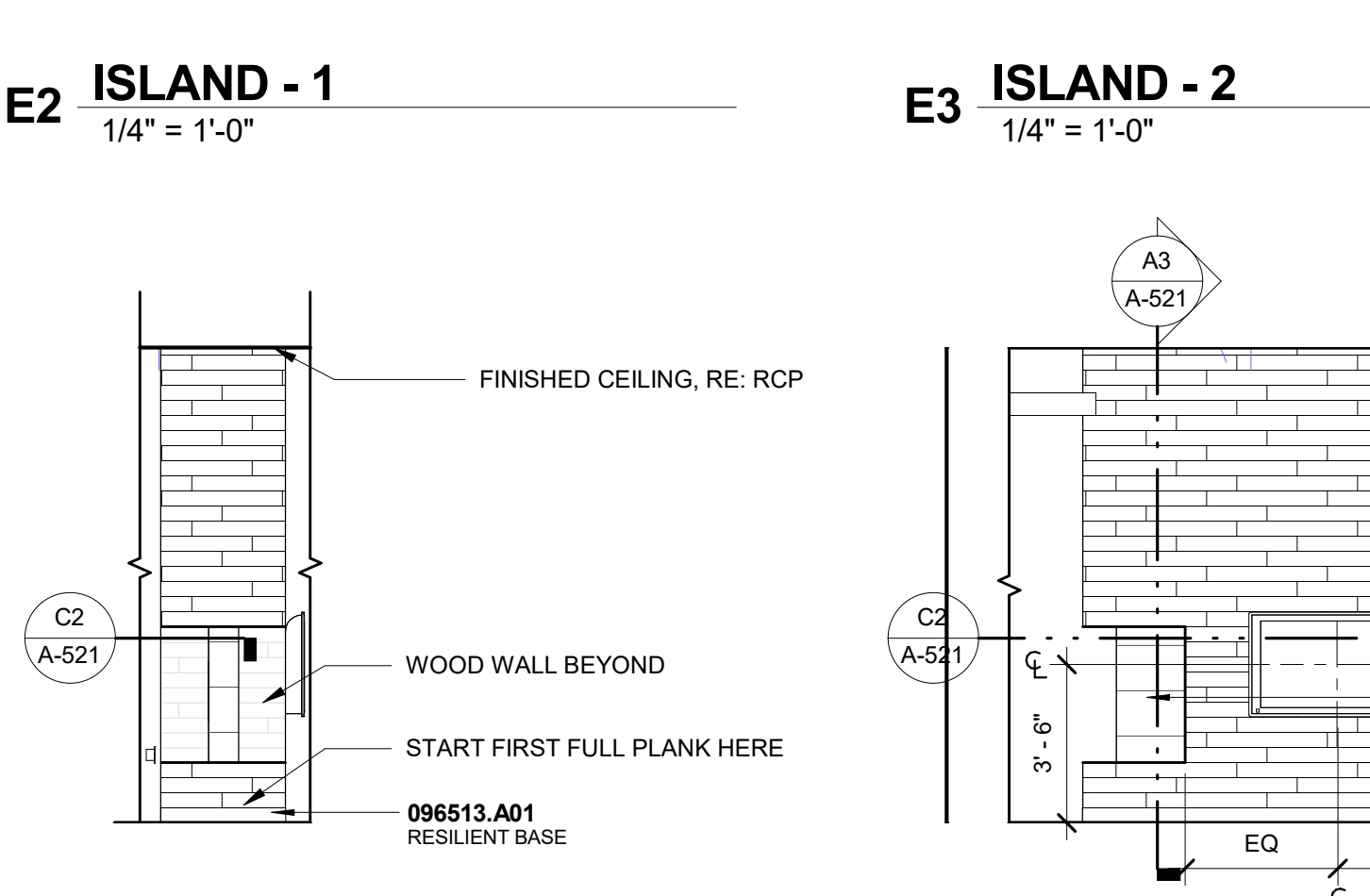
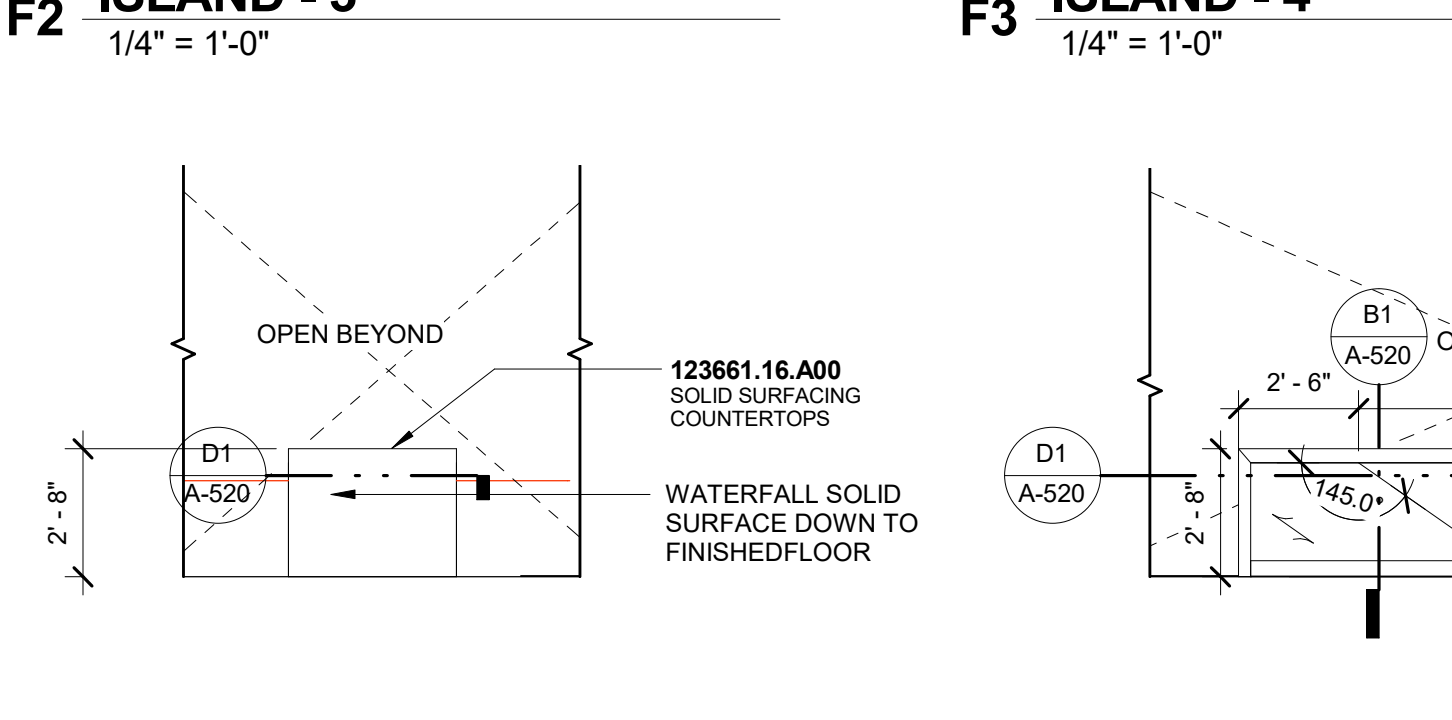
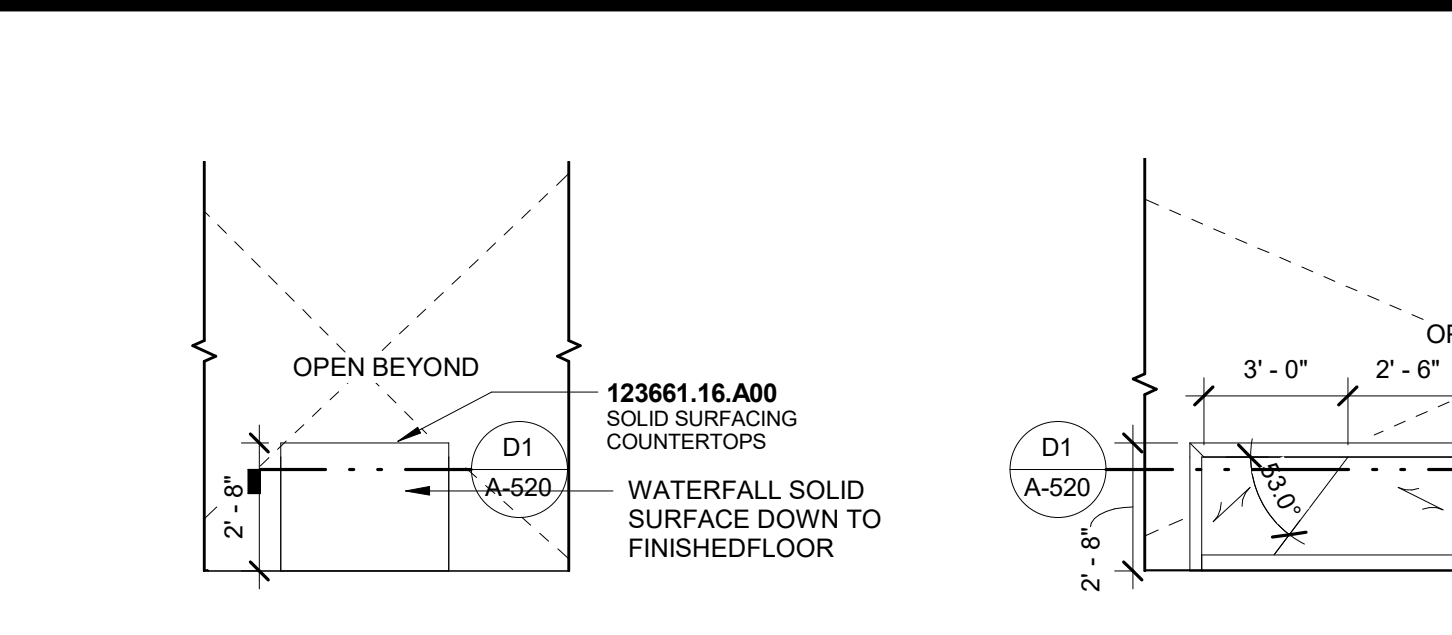
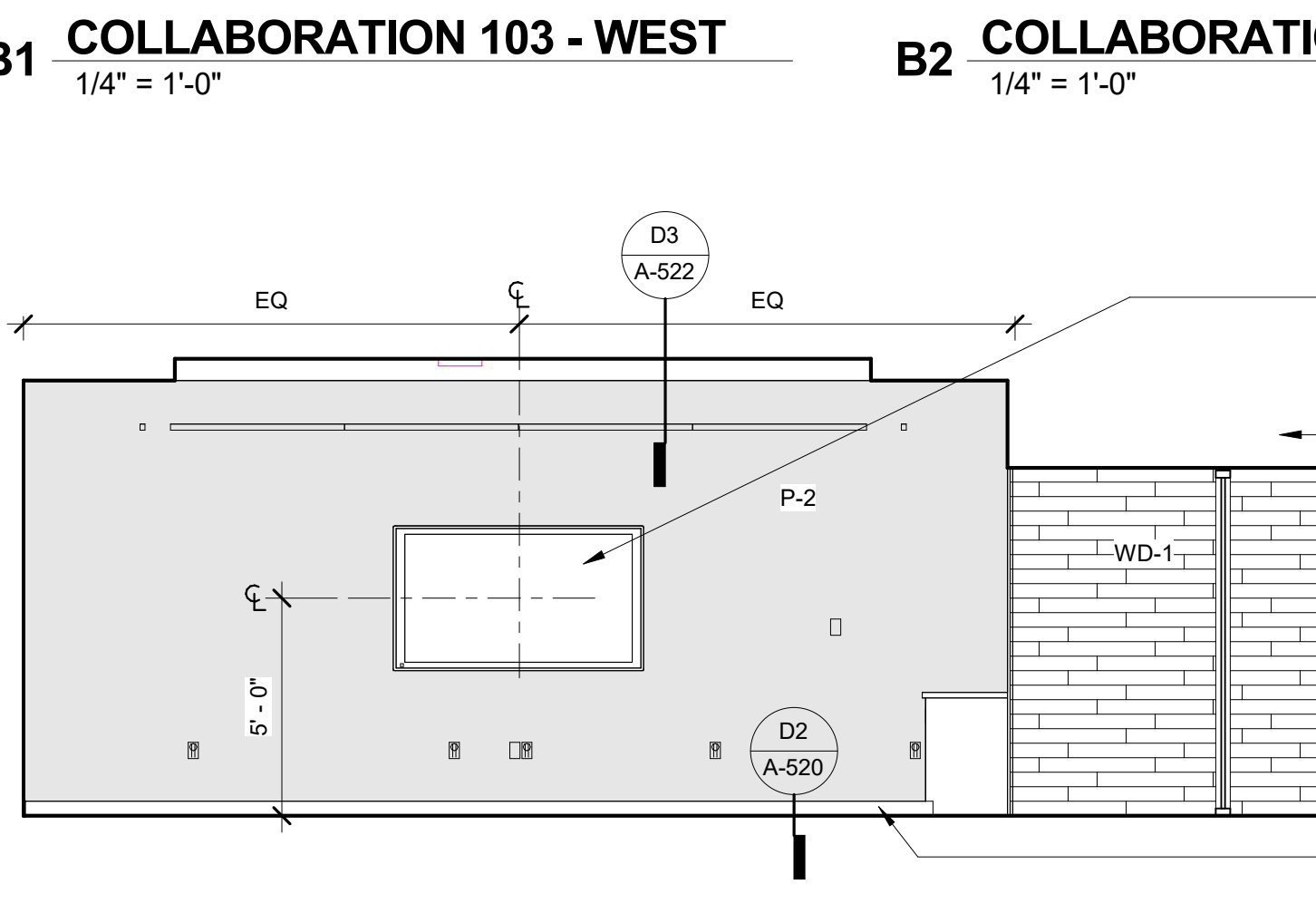
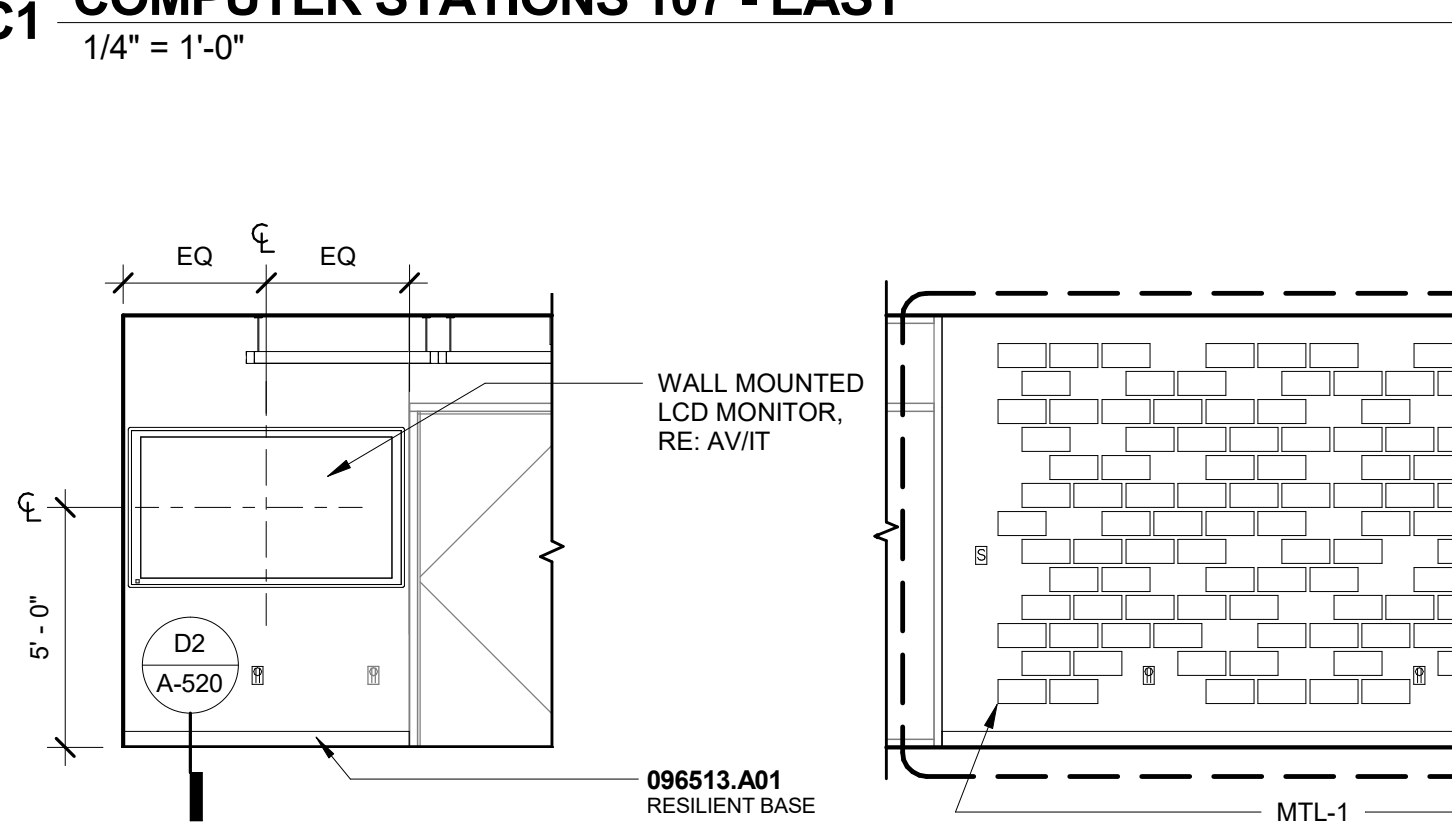
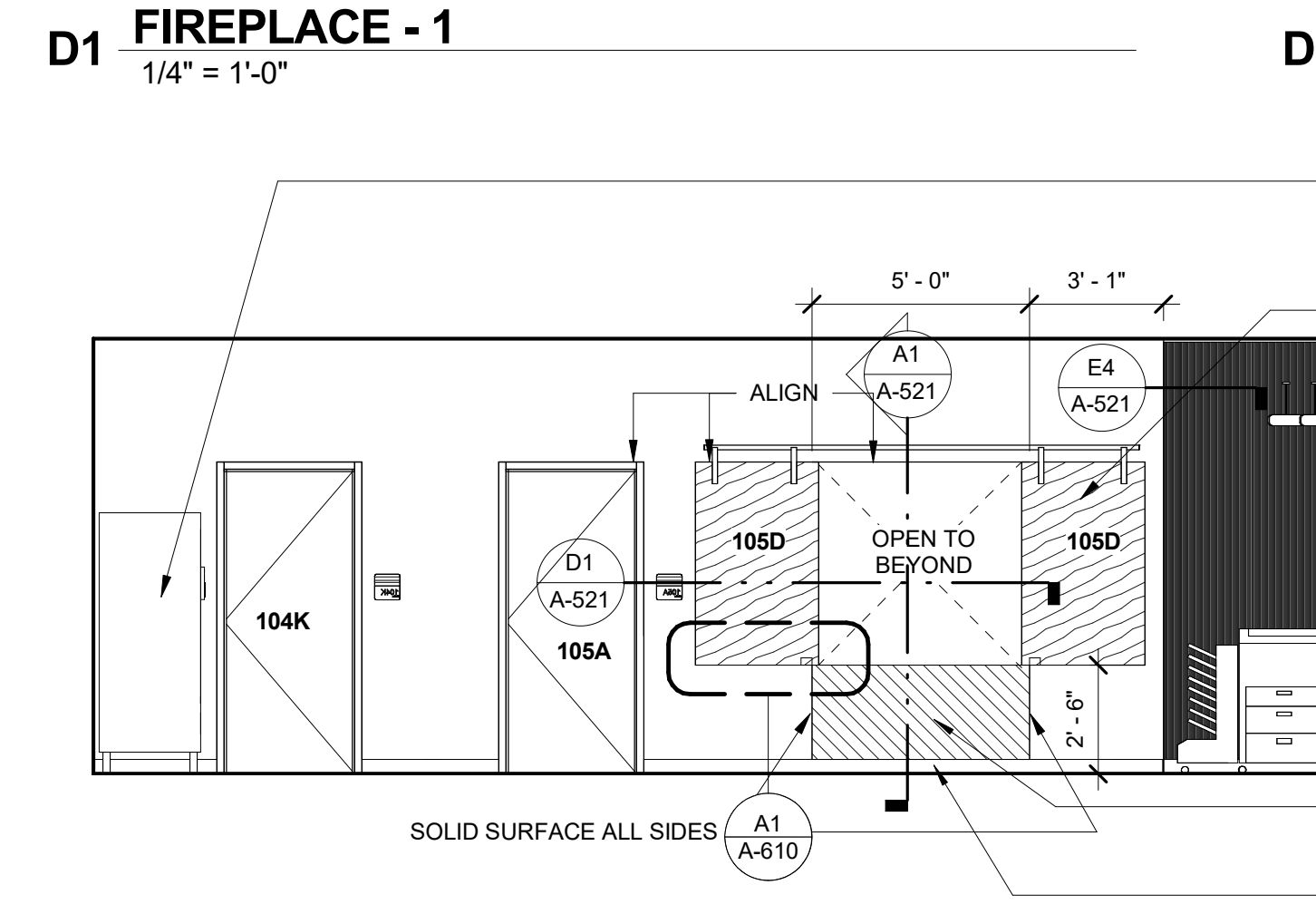
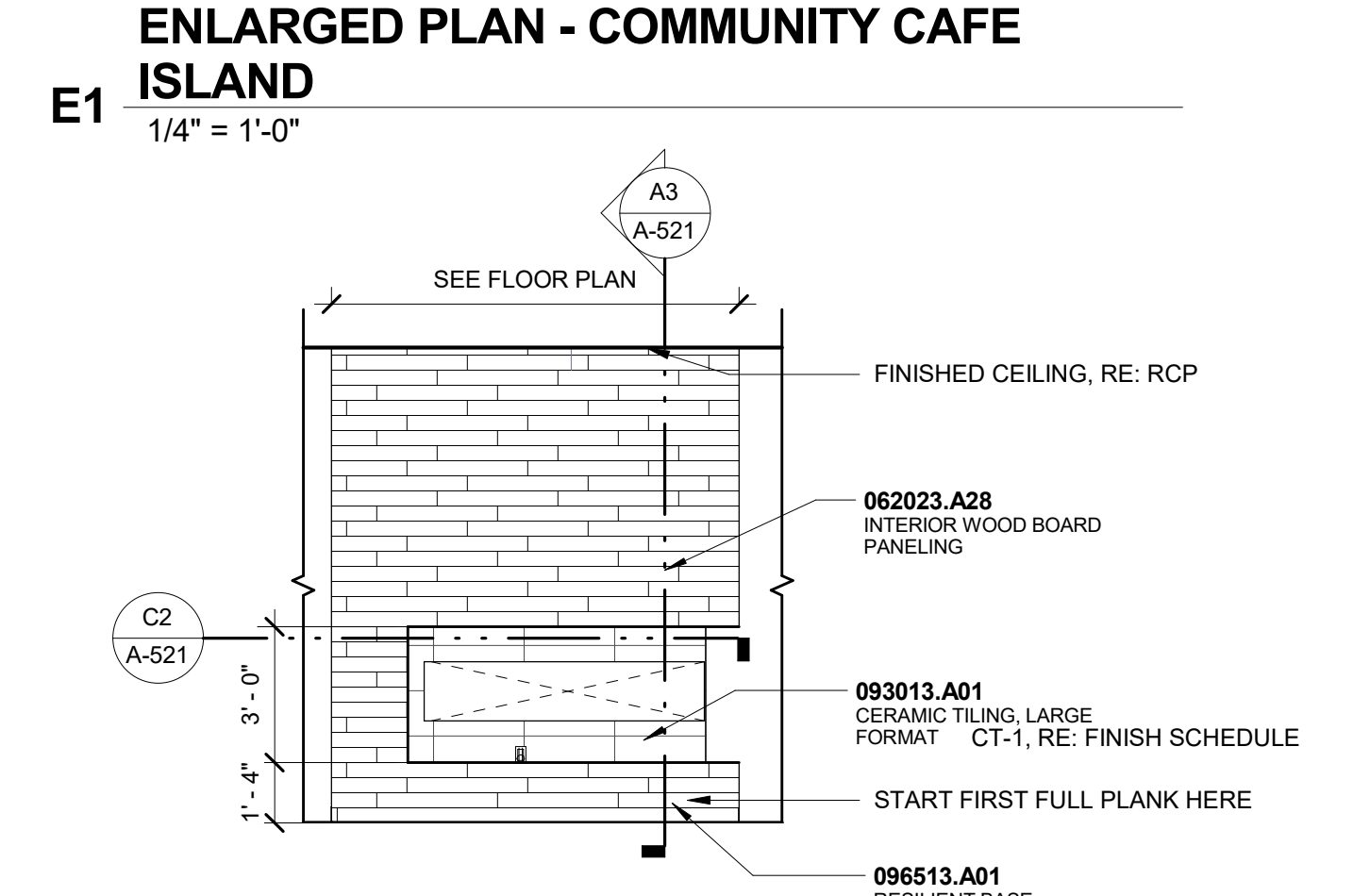
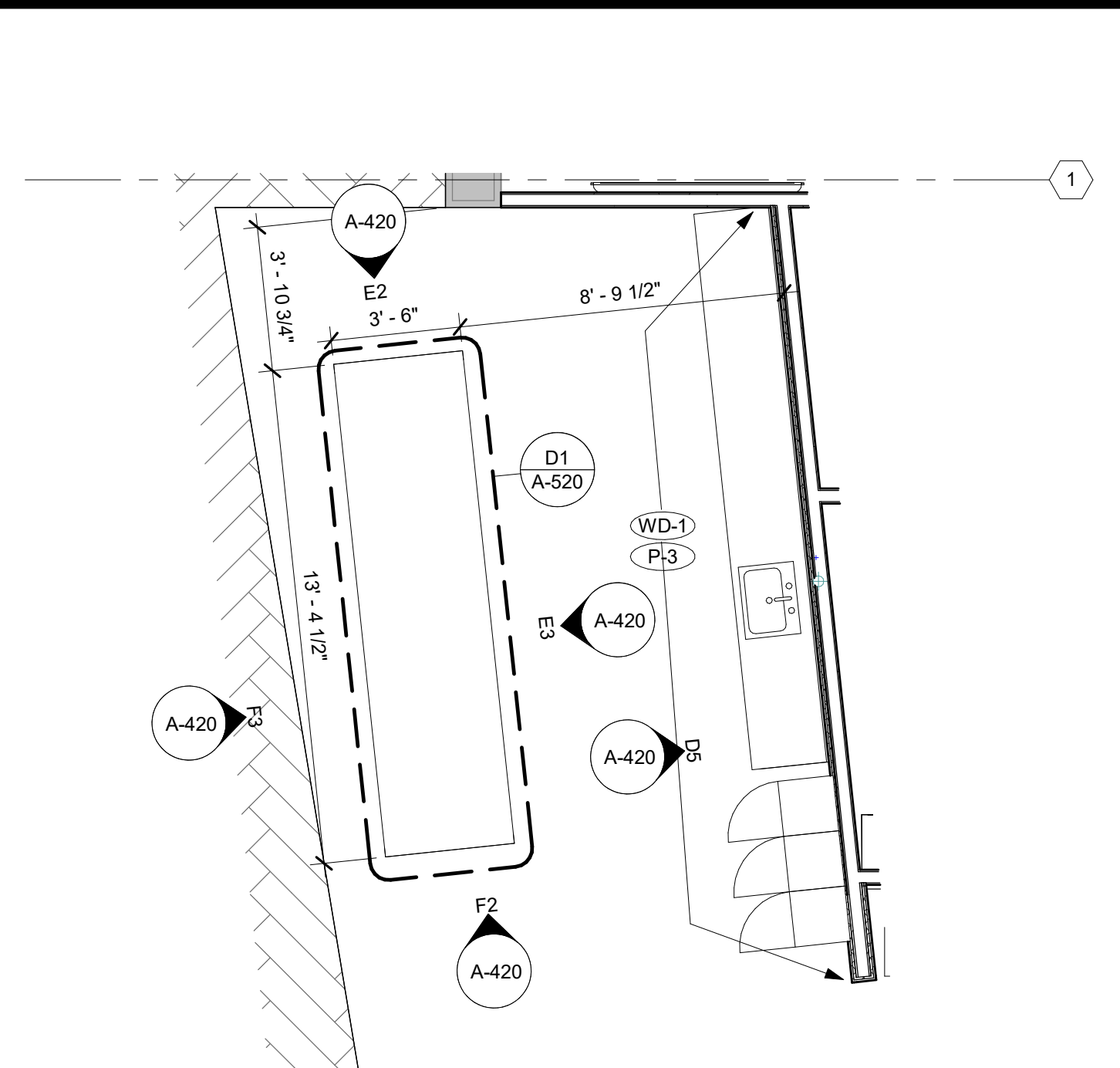
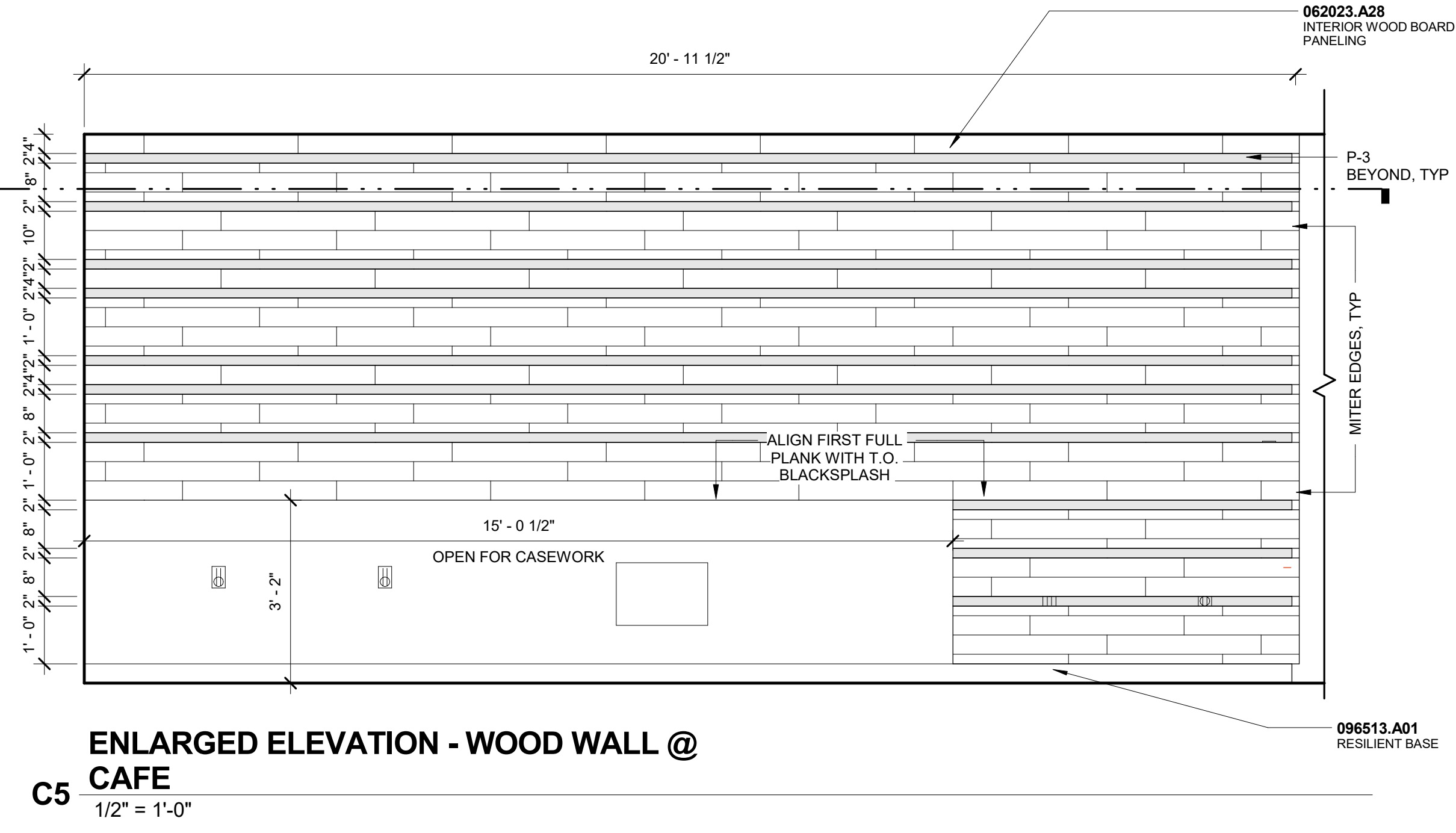
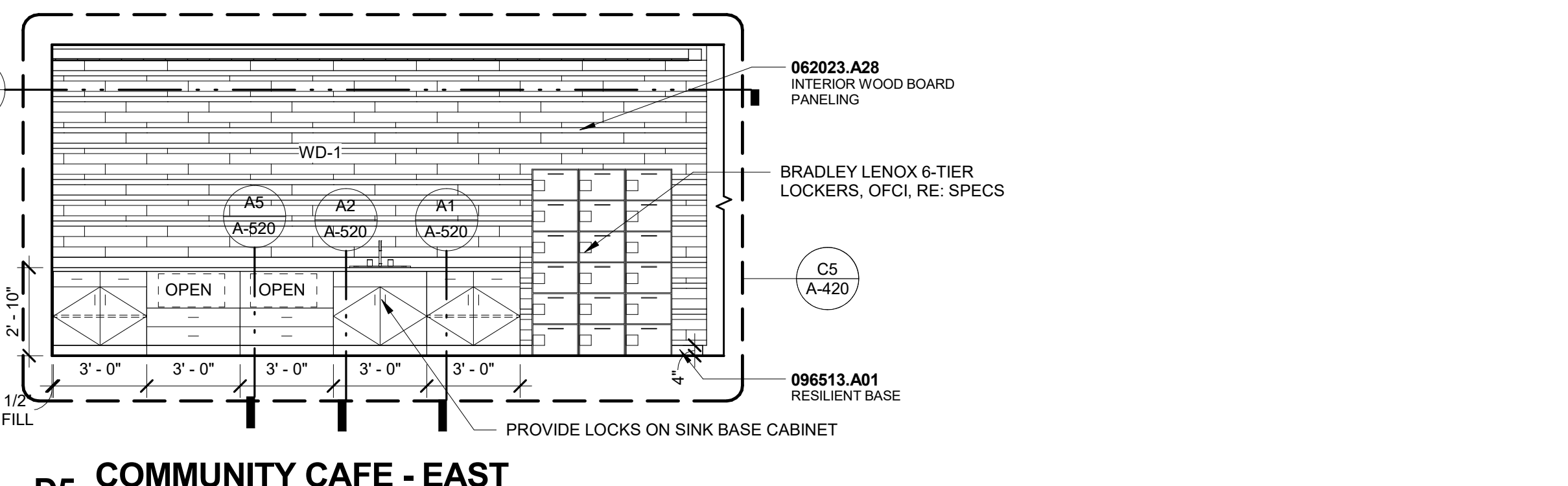
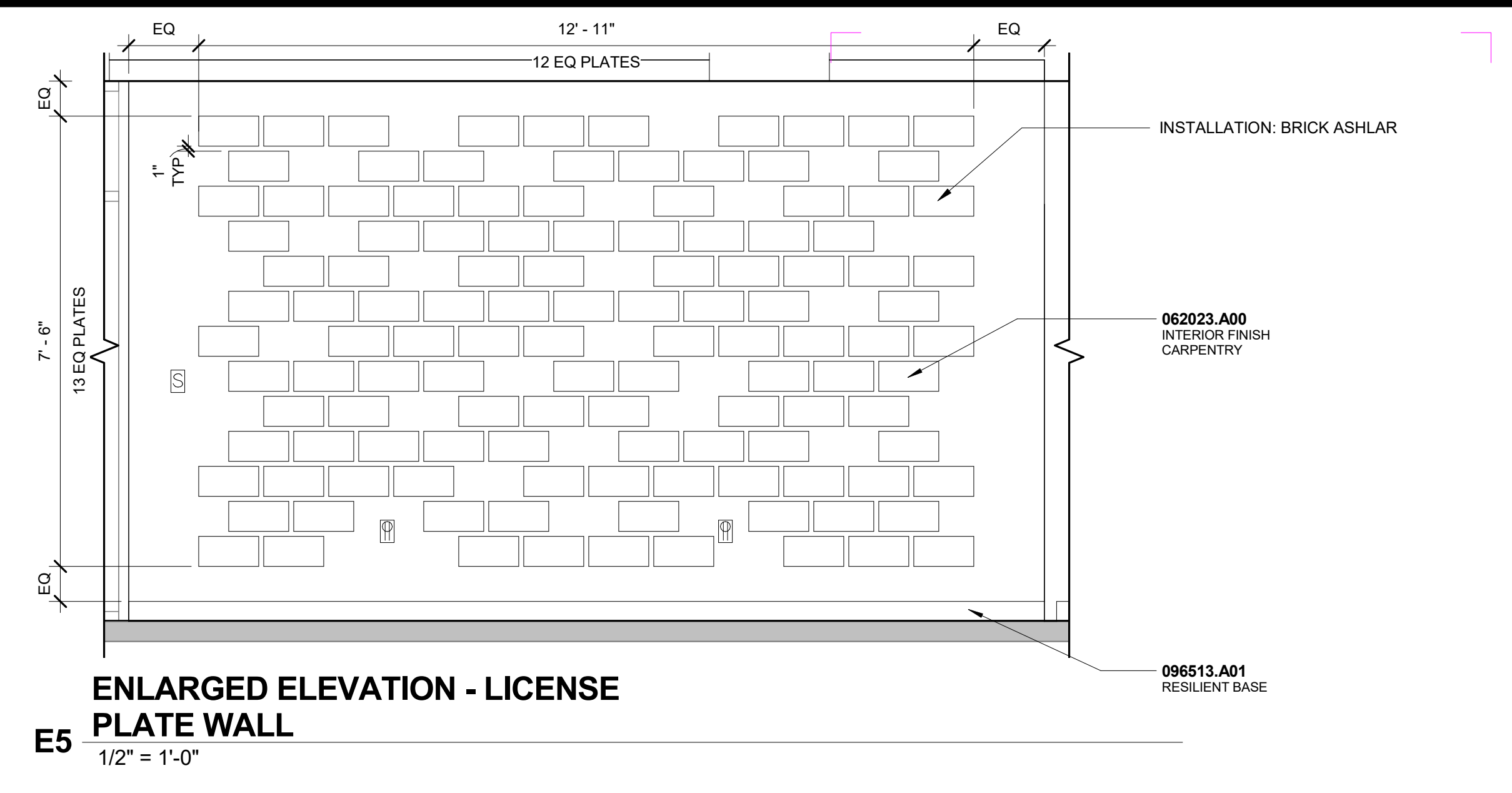
APPROVED BY: MP

SHEET TITLE:

**INTERIOR
ELEVATIONS**

A-420

SHEET OF



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CONSULTANT:



PROJECT:

**CROSSROADS
BUILDING
RENOVATION**

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

OWNER:

**LARAMIE COUNTY
COMMUNITY
COLLEGE**

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

ISSUE:

1.4.2018 CONTRACT DOCUMENTS

DRAWING INFORMATION:

PROJECT NO: 11738.001

DRAWN BY: TM

CHECKED BY: TW

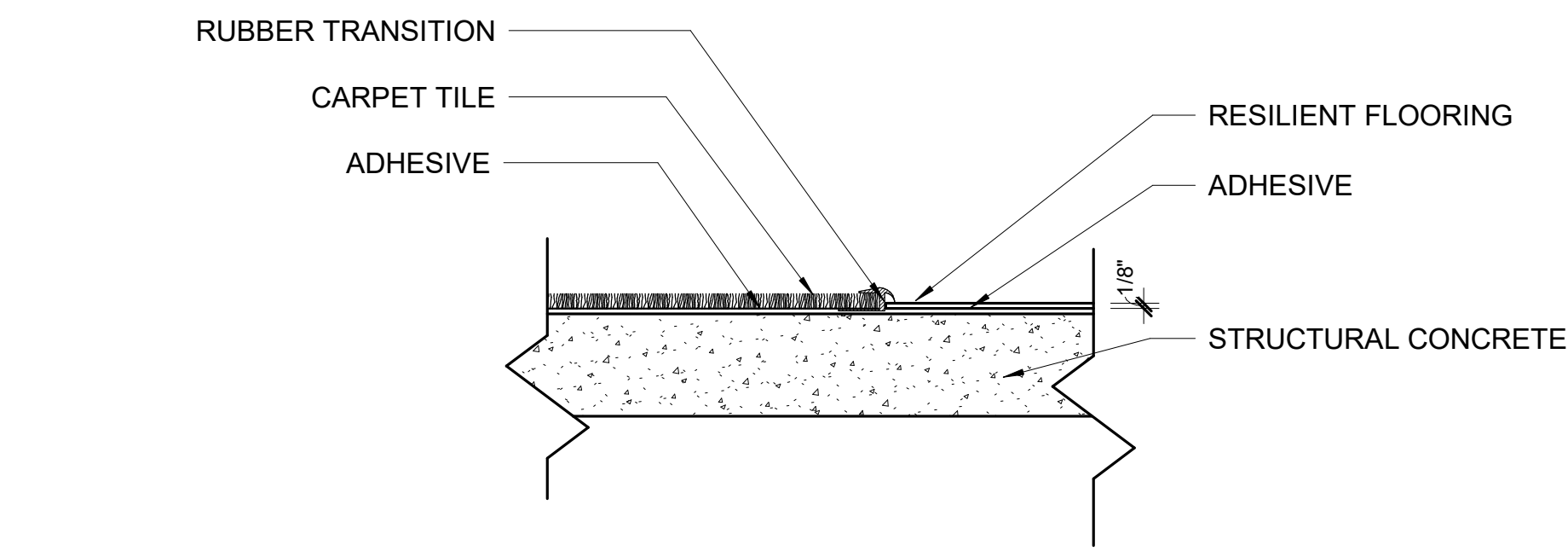
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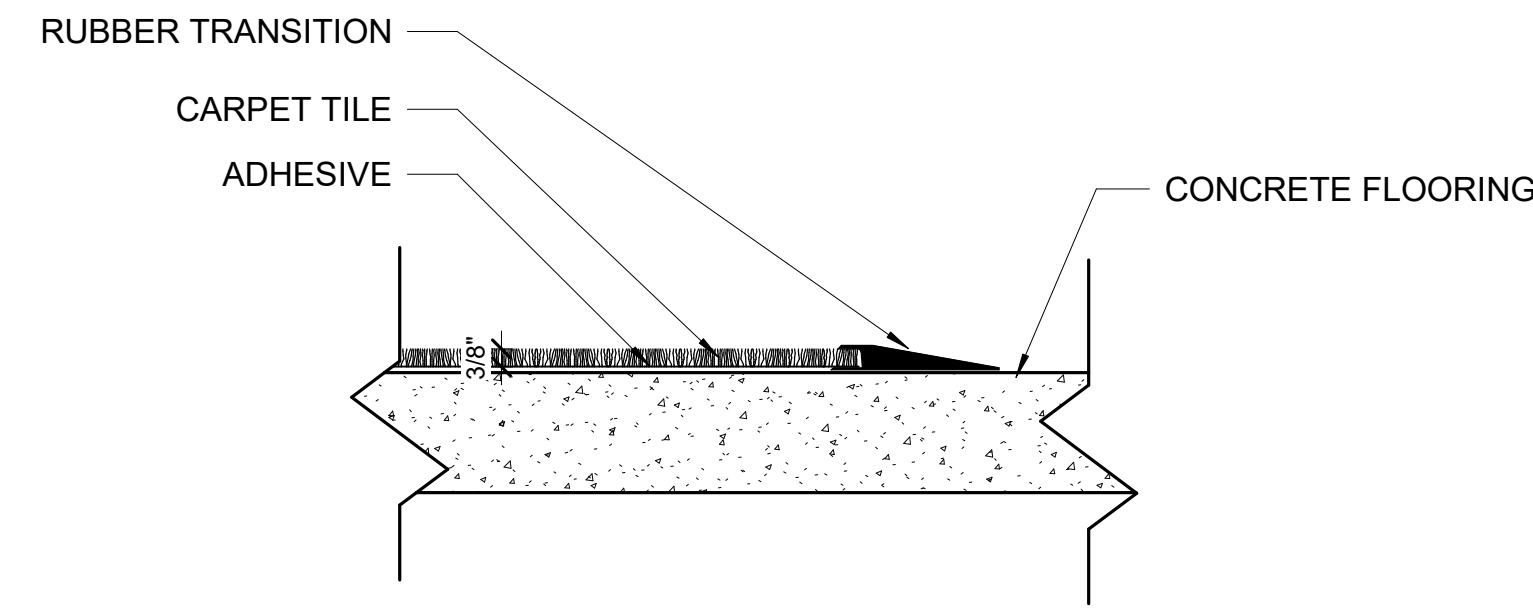
INTERIOR DETAILS

A-520

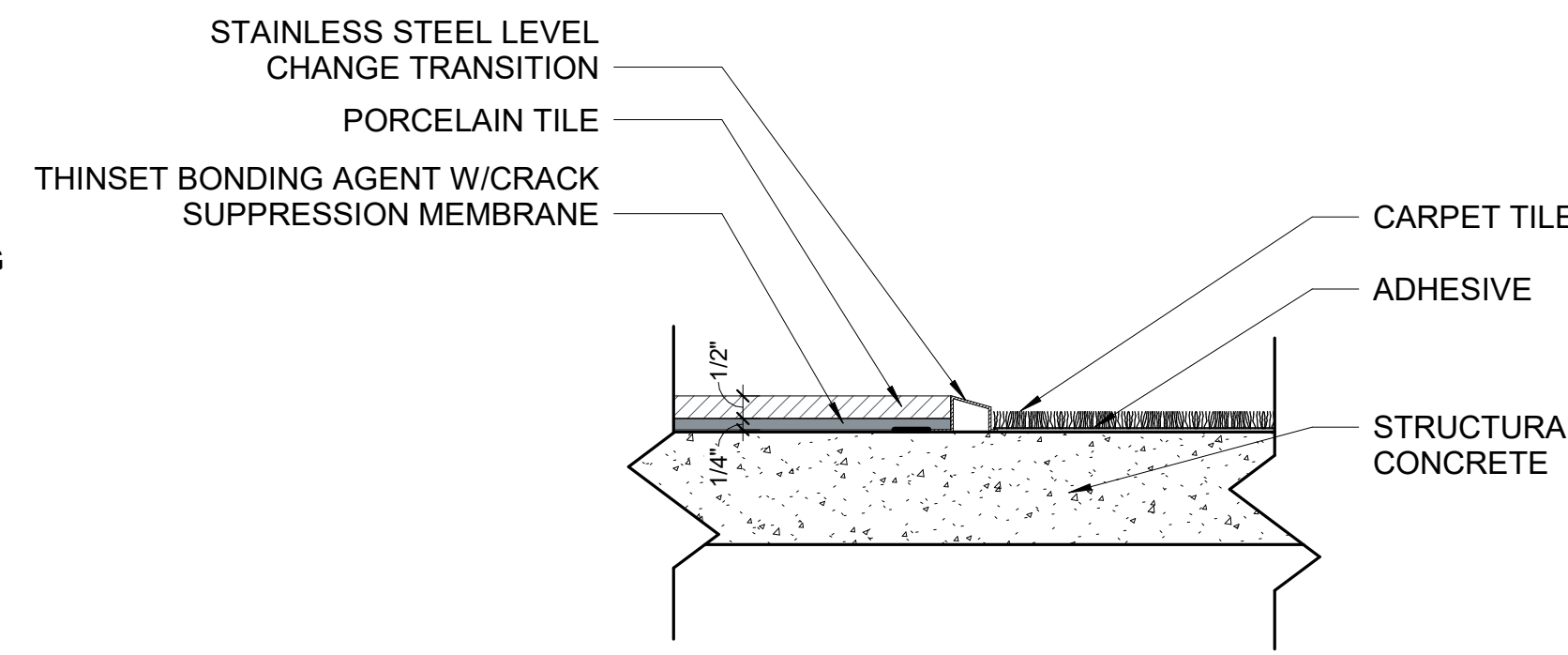
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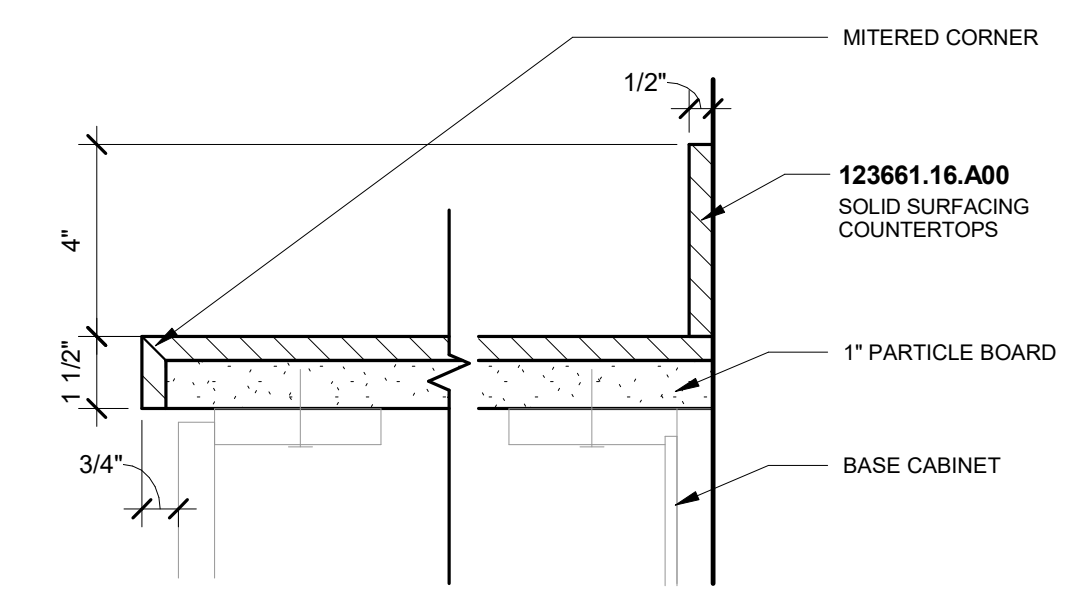
E1 FLOOR TRANSITION DETAIL - CARPET TO RESILIENT FLOORING (TR-1)
3" = 1'-0"



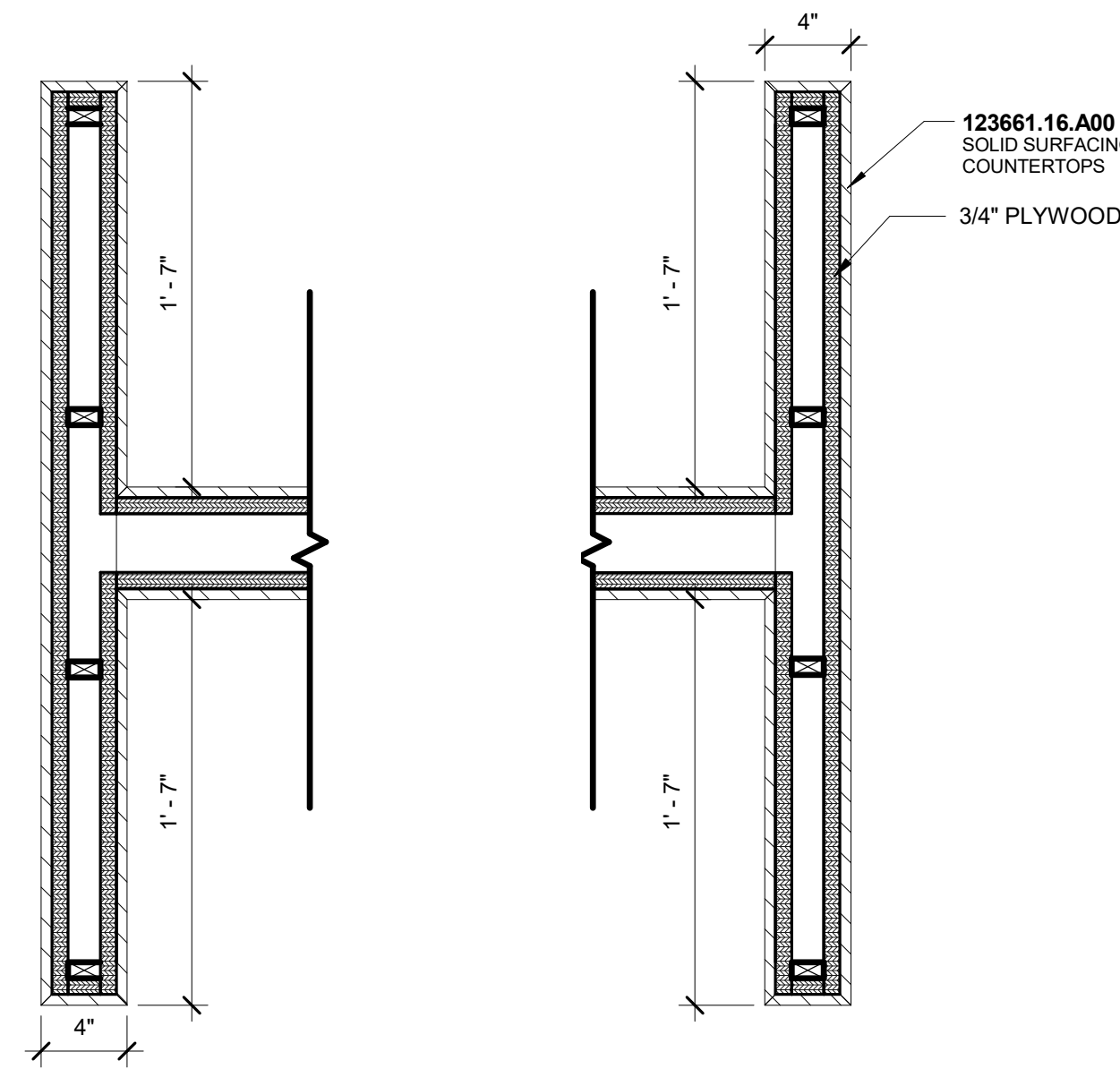
E3 FLOOR TRANSITION DETAIL - CARPET TO CONCRETE (TR-2)
3" = 1'-0"



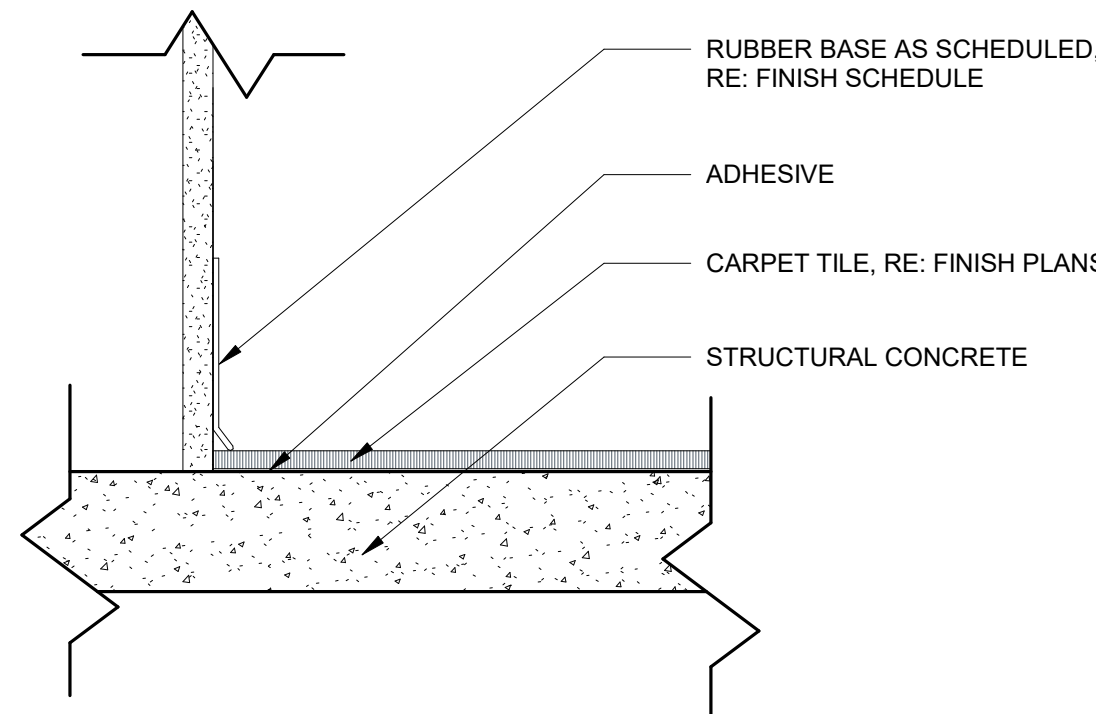
E4 FLOOR TRANSITION - CARPET TO TILE (TR-3)
3" = 1'-0"



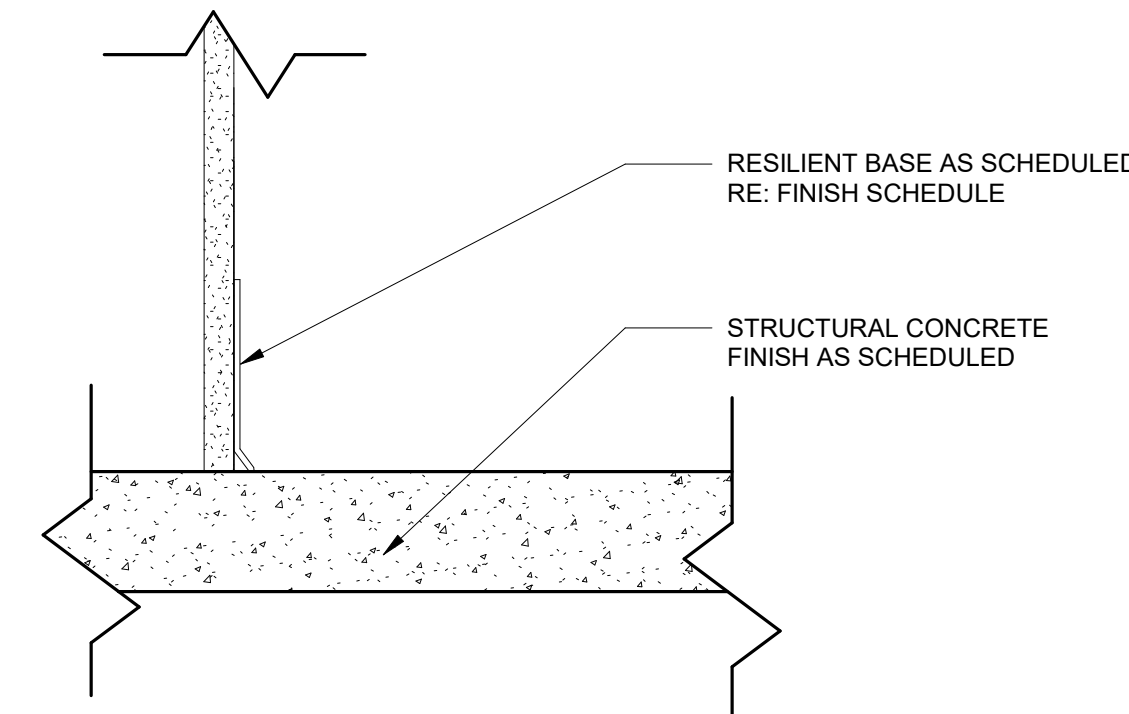
E6 COUNTERTOP SECTION - SOLID SURFACE
3" = 1'-0"



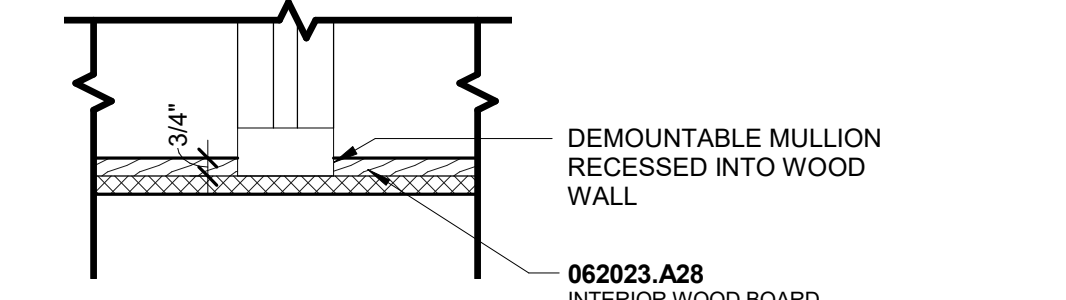
D1 PLAN DETAIL - ISLAND COUNTERTOP SUPPORTS
1 1/2" = 1'-0"



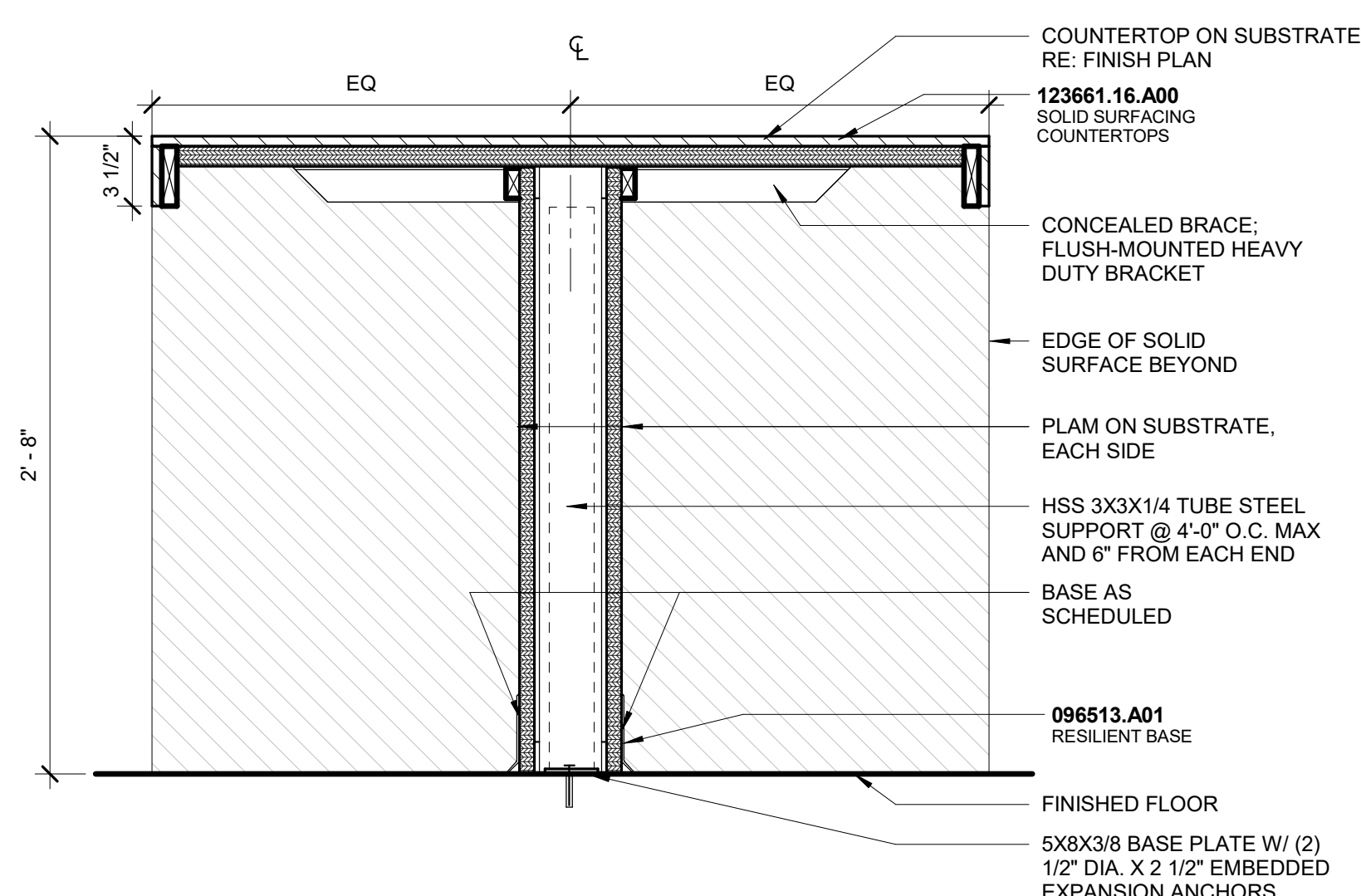
D2 MATERIAL TRANSITION - RUBBER BASE TO CARPET
3" = 1'-0"



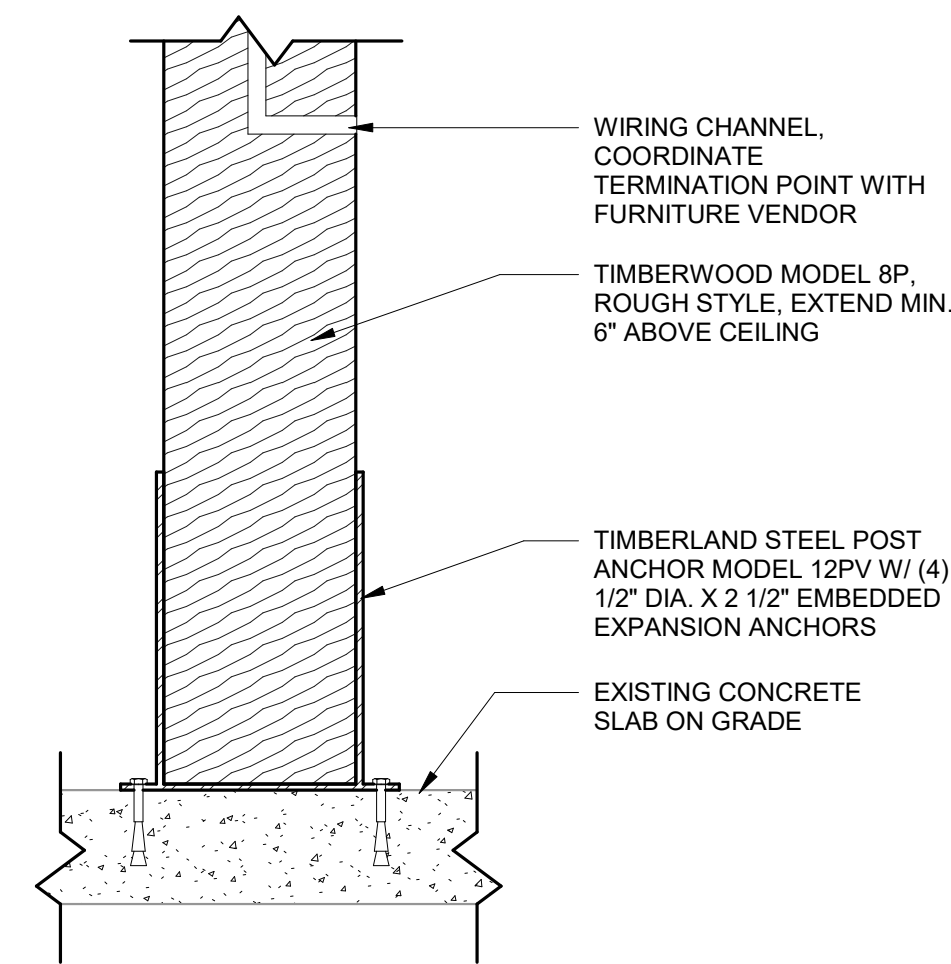
D4 MATERIAL TRANSITION - RUBBER BASE TO CONCRETE
3" = 1'-0"



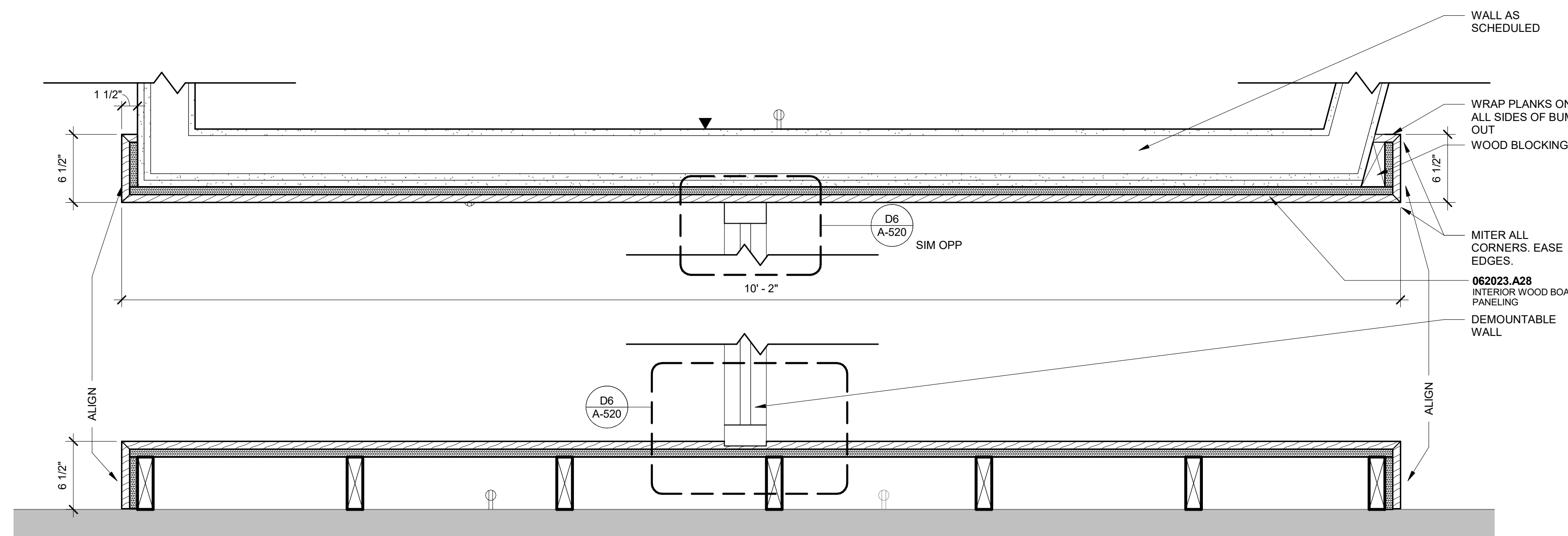
D6 PLAN DETAIL - STOREFRONT @ WOOD WALL
1 1/2" = 1'-0"



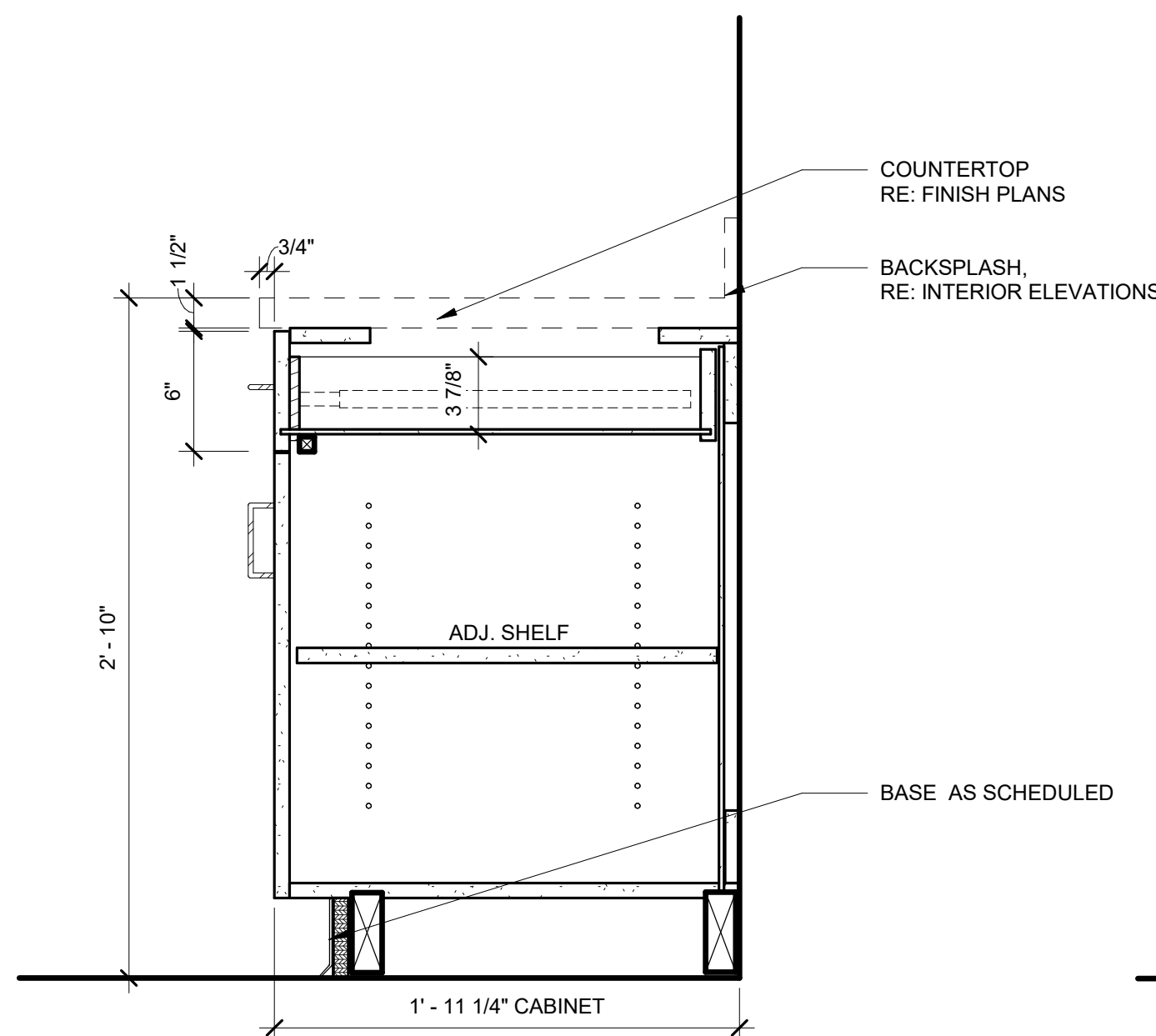
B1 CASEWORK SECTION - TYP. COUNTERTOP DETAIL AT NEW WALL
1 1/2" = 1'-0"



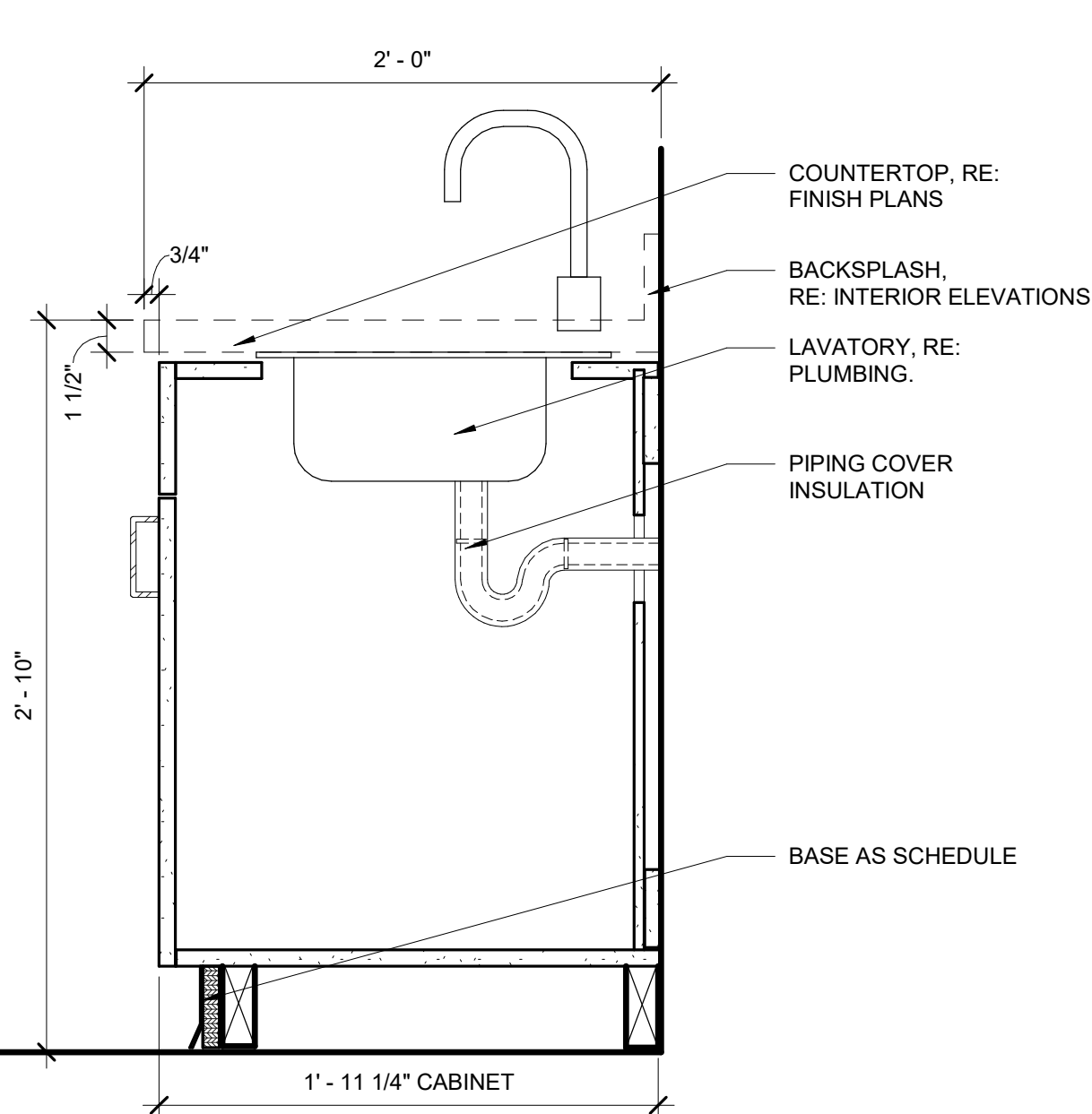
B2 WOOD POST ANCHOR DETAIL
1 1/2" = 1'-0"



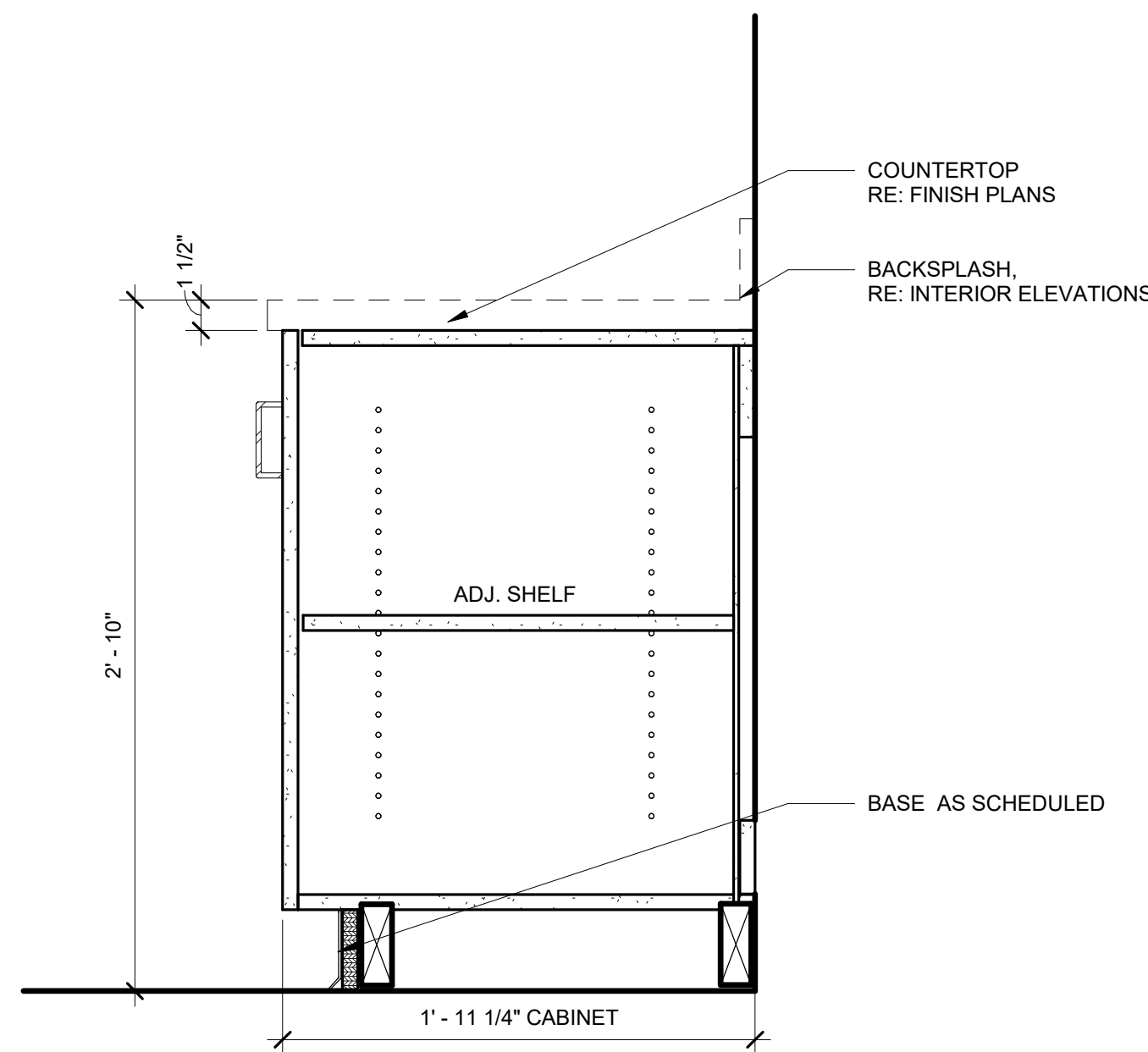
B4 PLAN DETAIL - CONF ROOM ENTRY
1 1/2" = 1'-0"



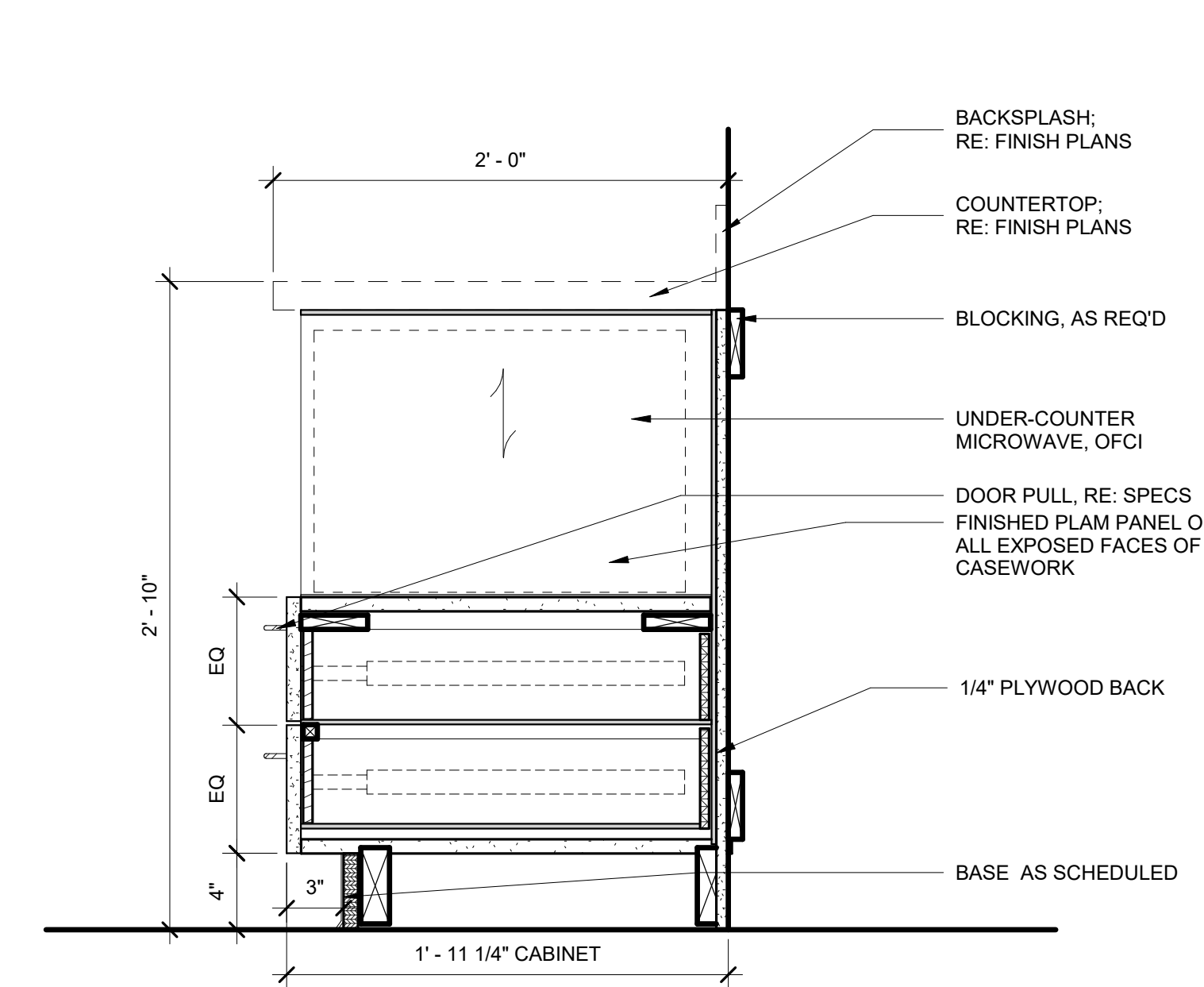
A1 CASEWORK SECTION - BASE CABINET - DRAWER(S) AND DOOR
1 1/2" = 1'-0"



A2 CASEWORK SECTION - BASE CABINET - TYP. SIDE APPROACH SINK
1 1/2" = 1'-0"



A4 CASEWORK SECTION - BASE CABINET - ADJ. SHELF AND DOOR(S)
1 1/2" = 1'-0"



A5 CASEWORK SECTION - ISLAND BASE CABINET W/ DRAWERS & MICROWAVE SHELF
1 1/2" = 1'-0"

CONSULTANT:



PROJECT:

**CROSSROADS
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RENOVATION**

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1.4.2018 CONTRACT DOCUMENTS

DRAWING INFORMATION:

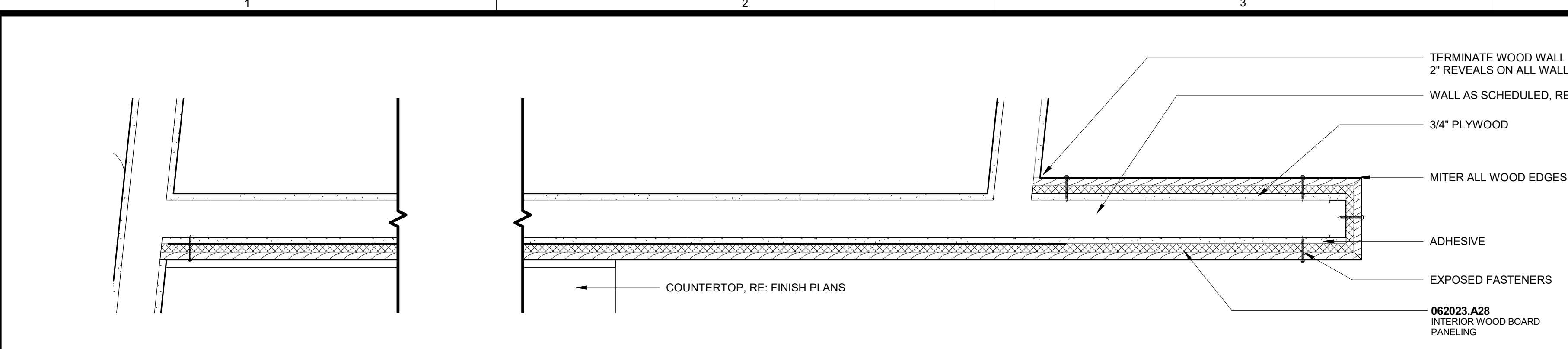
PROJECT NO:	11738.001
DRAWN BY:	TM
CHECKED BY:	TW
APPROVED BY:	MP
SHEET TITLE:	

INTERIOR DETAILS

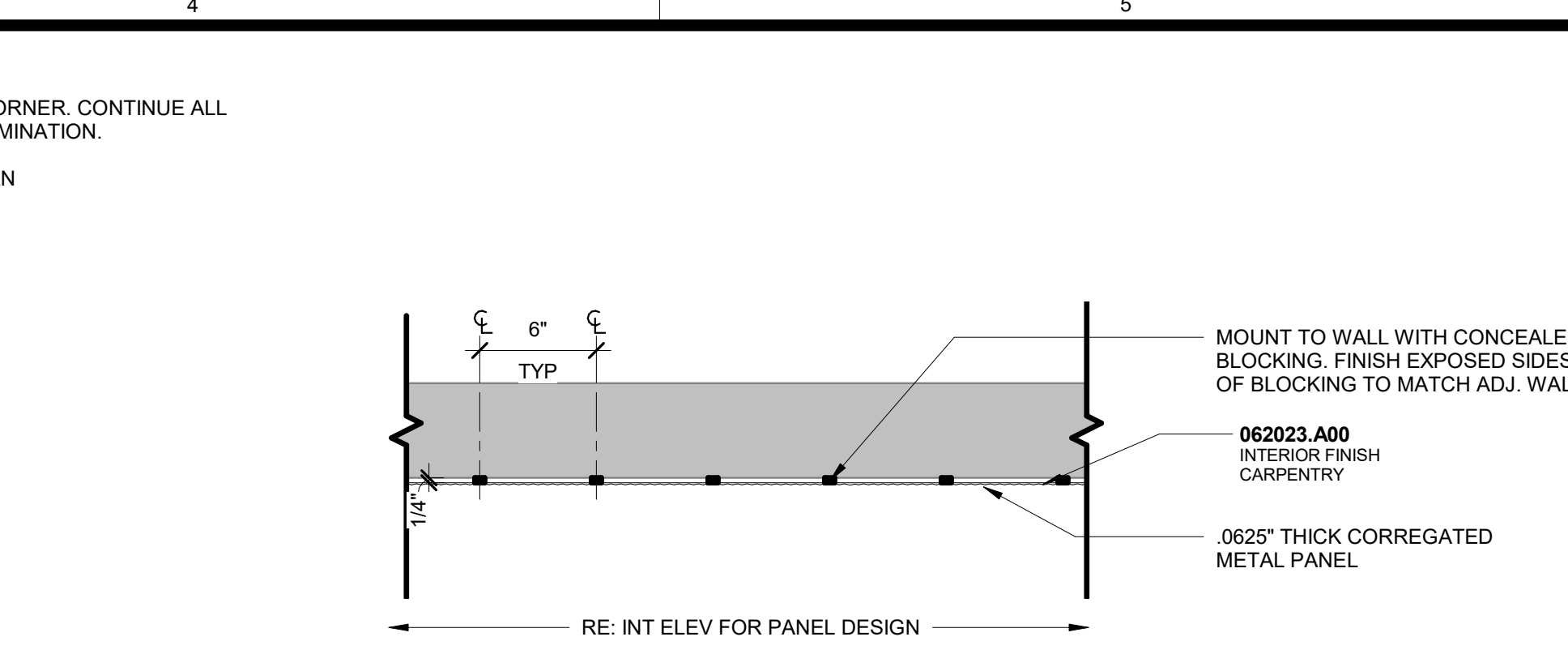
A-521

SHEET OF

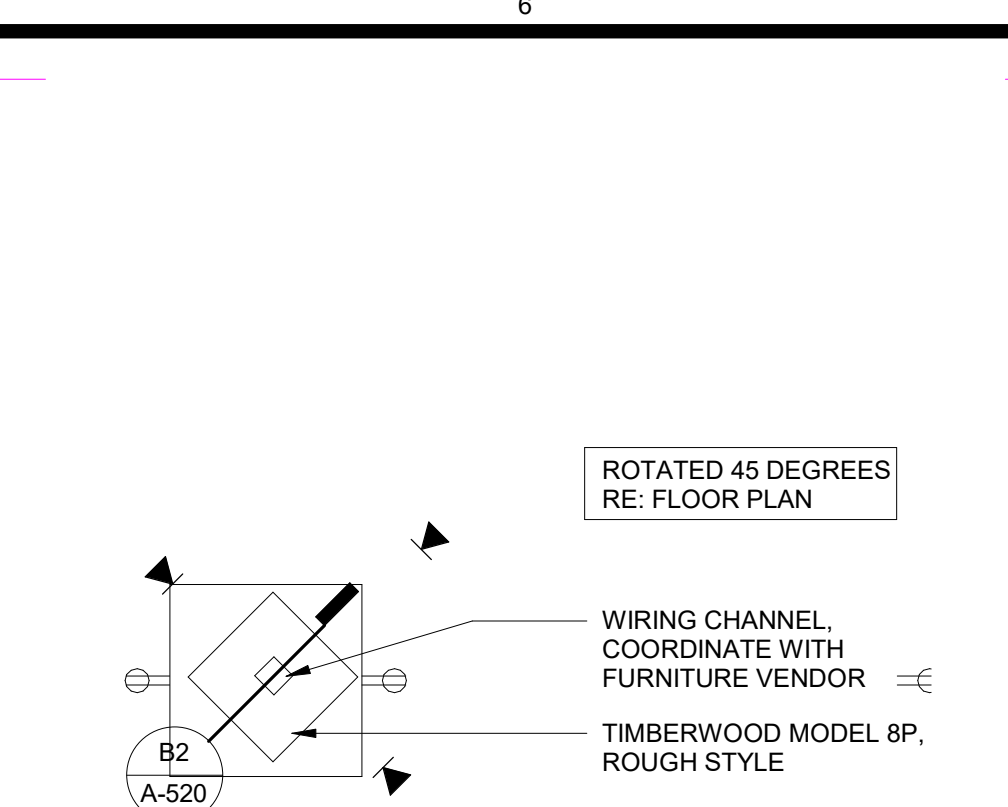
**E1 PLAN DETAIL - WOOD WALL @
COMMUNITY CAFE**
1 1/2" = 1'-0"



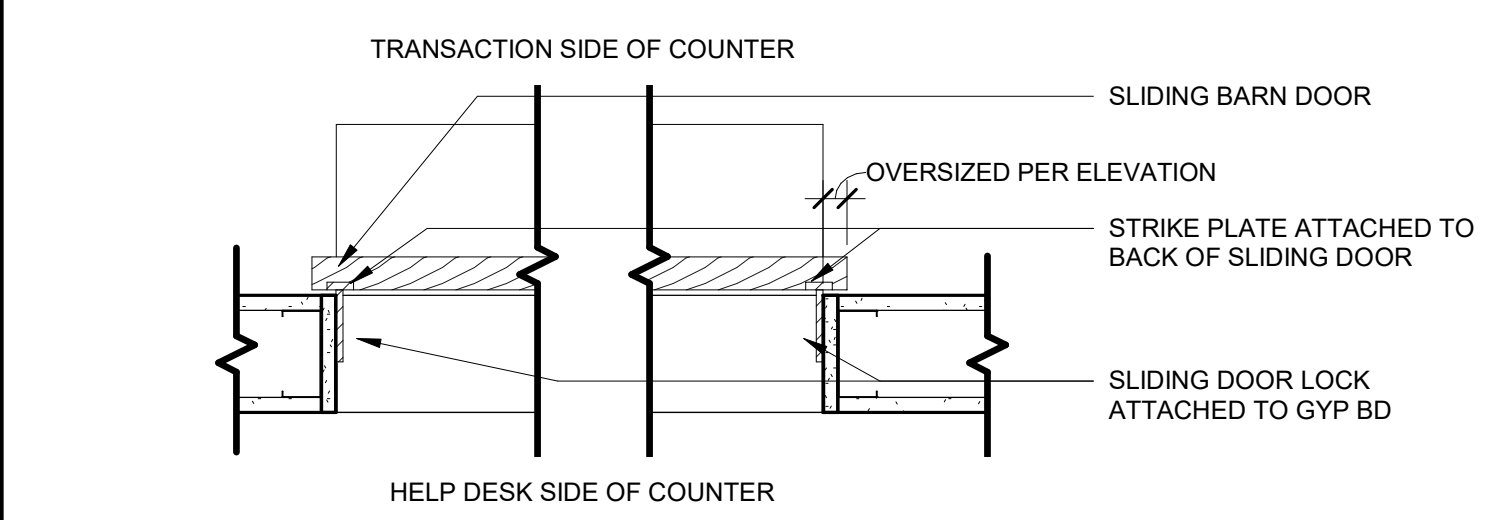
**E4 PLAN DETAIL - DECORATIVE METAL
PANELS @ COMPUTER STATIONS**
1 1/2" = 1'-0"



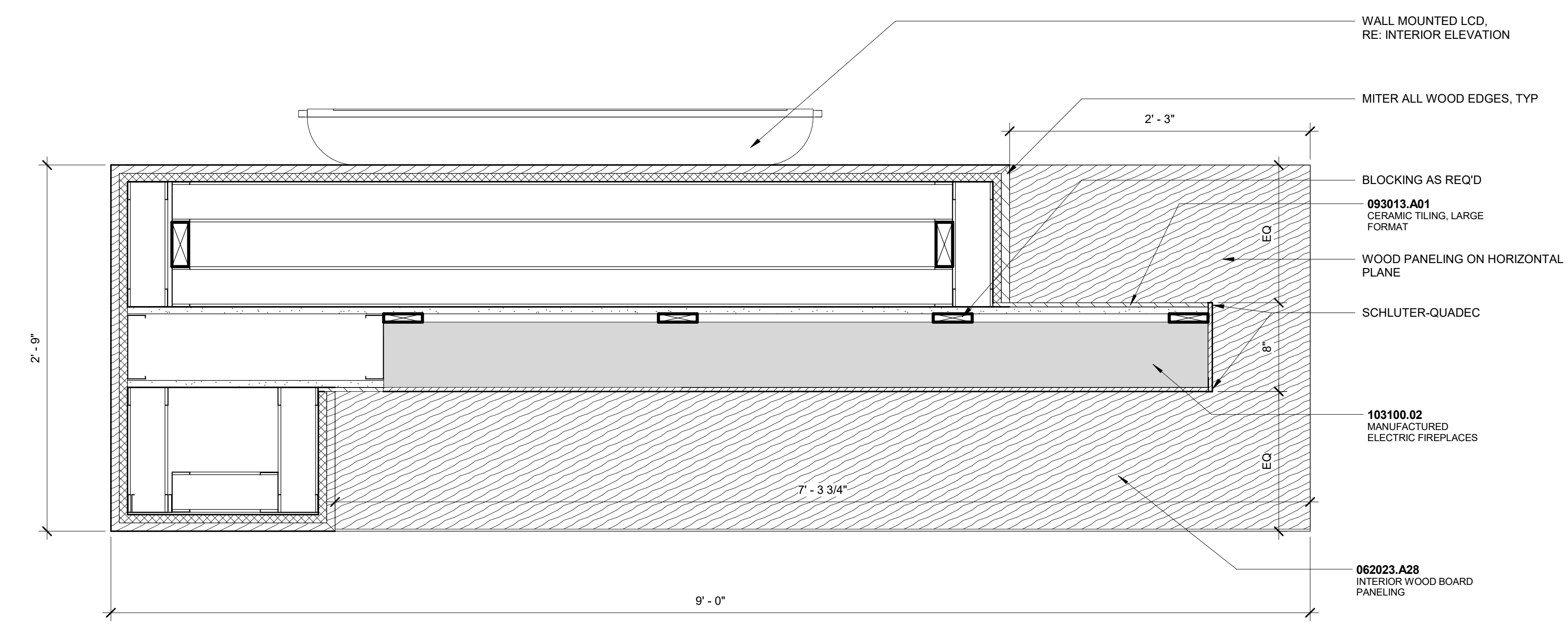
E6 PLAN DETAIL - TYP POWER PULL
1 1/2" = 1'-0"



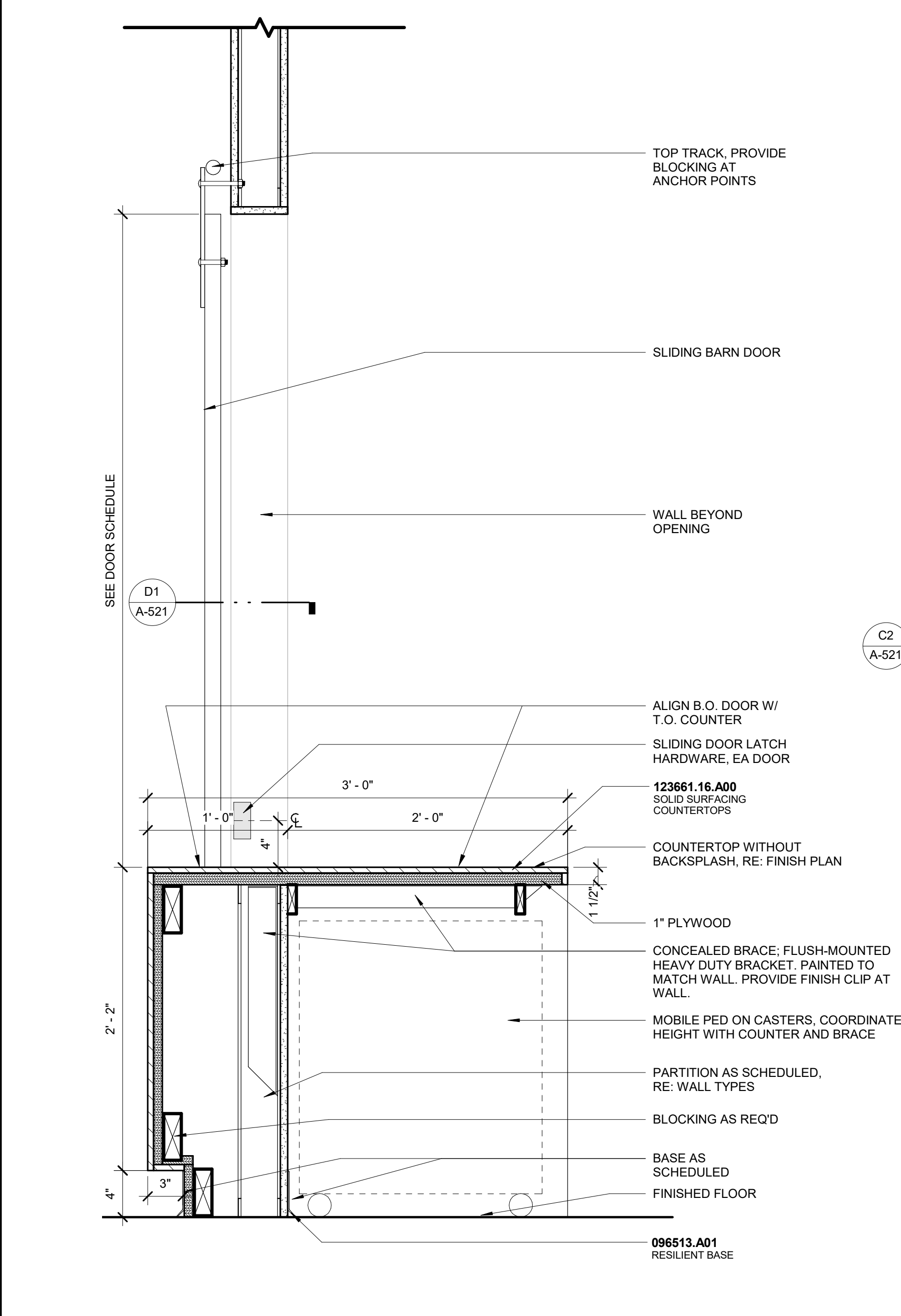
**D1 PLAN DETAIL - LOCK ON HELP DESK
SLIDING DOOR**
1 1/2" = 1'-0"



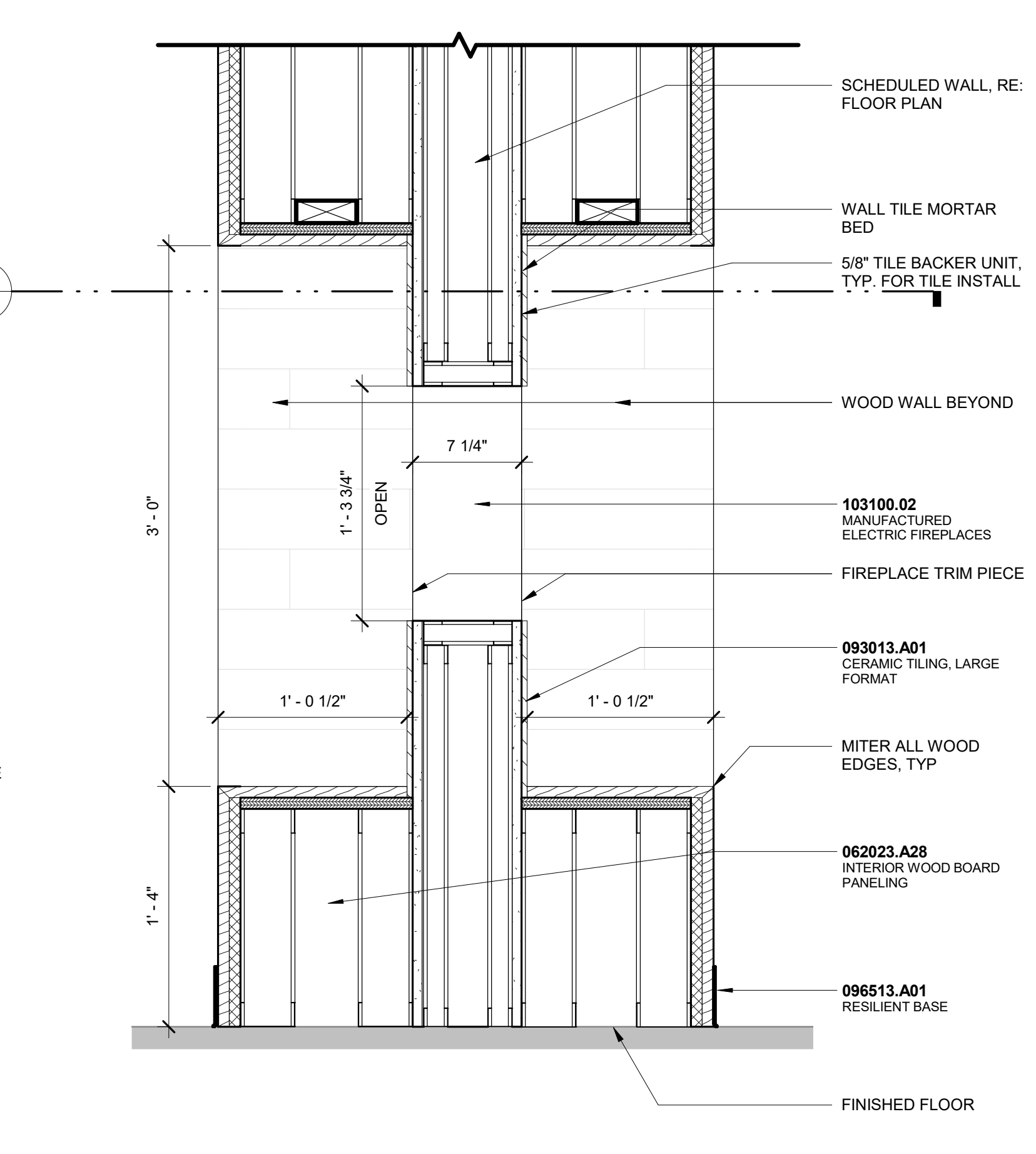
C2 PLAN DETAIL - INSET ELEC FIREPLACE
1 1/2" = 1'-0"



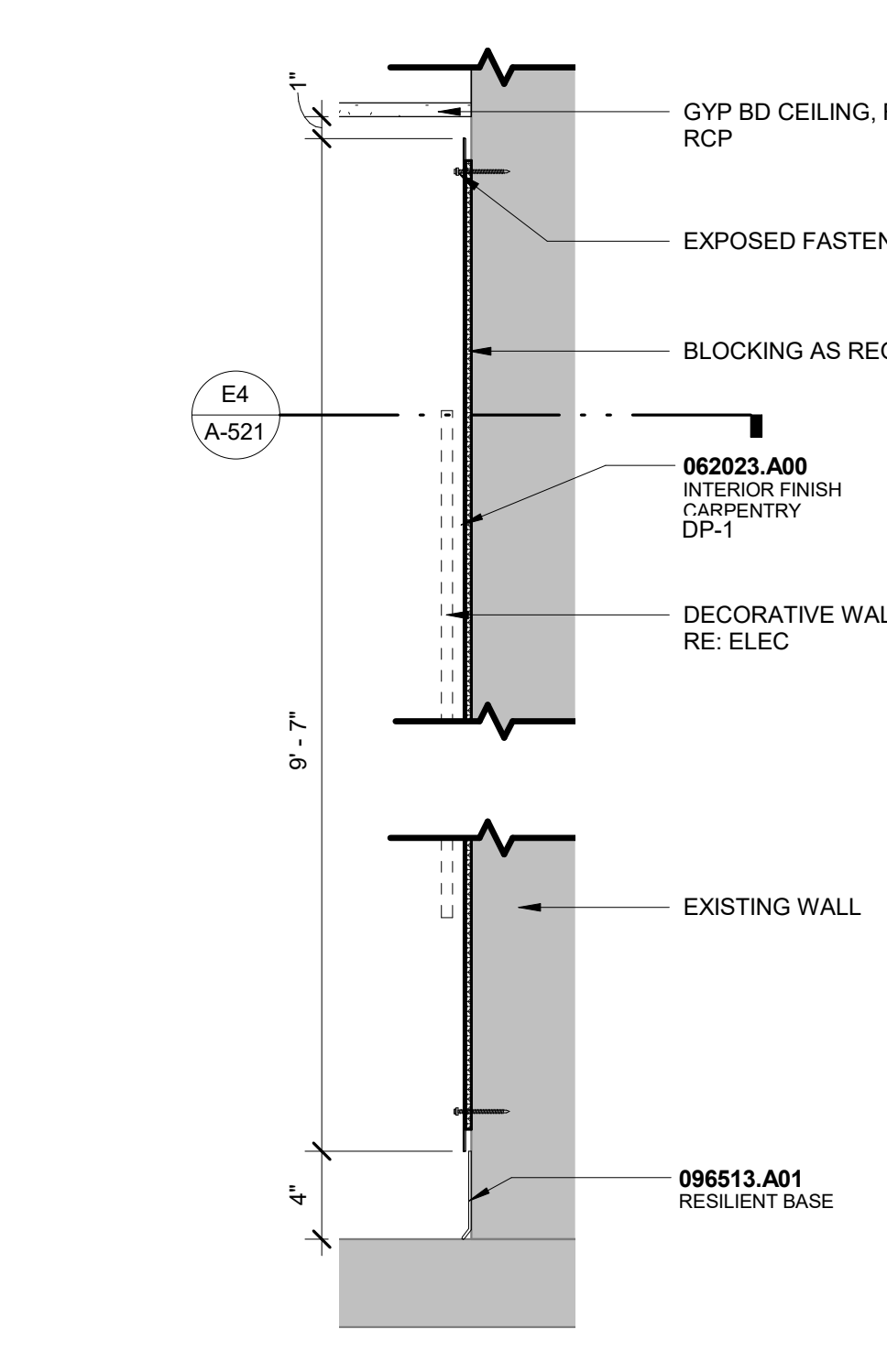
**A1 SECTION DETAIL - COUNTER AT NEW
HELP DESK WALL**
1 1/2" = 1'-0"



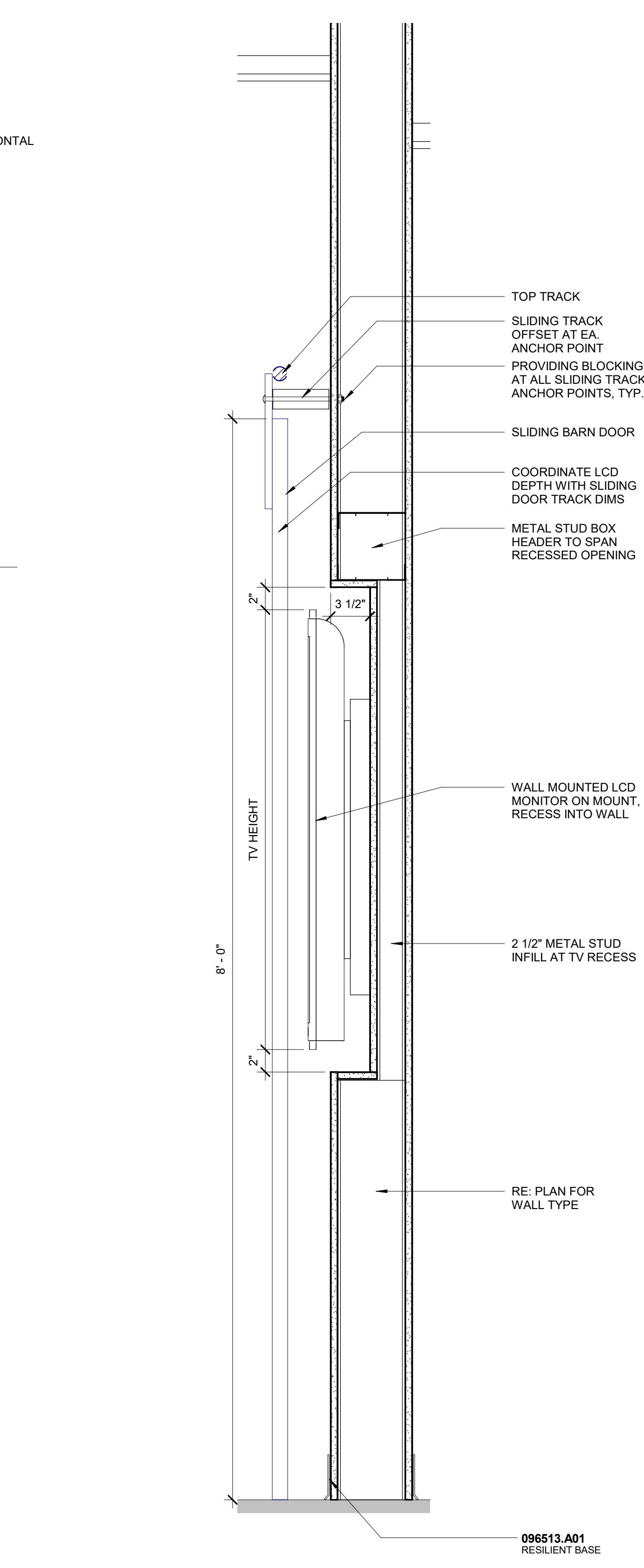
**A3 SECTION DETAIL - INSET ELEC
FIREPLACE**
1 1/2" = 1'-0"



**A4 SECTION DETAIL - DECORATIVE
METAL PANELS @ COMPUTER
STATIONS**
1 1/2" = 1'-0"



**A6 SECTION DETAIL - SLIDING BARN DOOR
@ COLLABORATION**
1 1/2" = 1'-0"



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CONSULTANT:



PROJECT:

**CROSSROADS
BUILDING
RENOVATION**

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

OWNER:

**LARAMIE COUNTY
COMMUNITY
COLLEGE**

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

ISSUE:

1.4.2018 CONTRACT DOCUMENTS

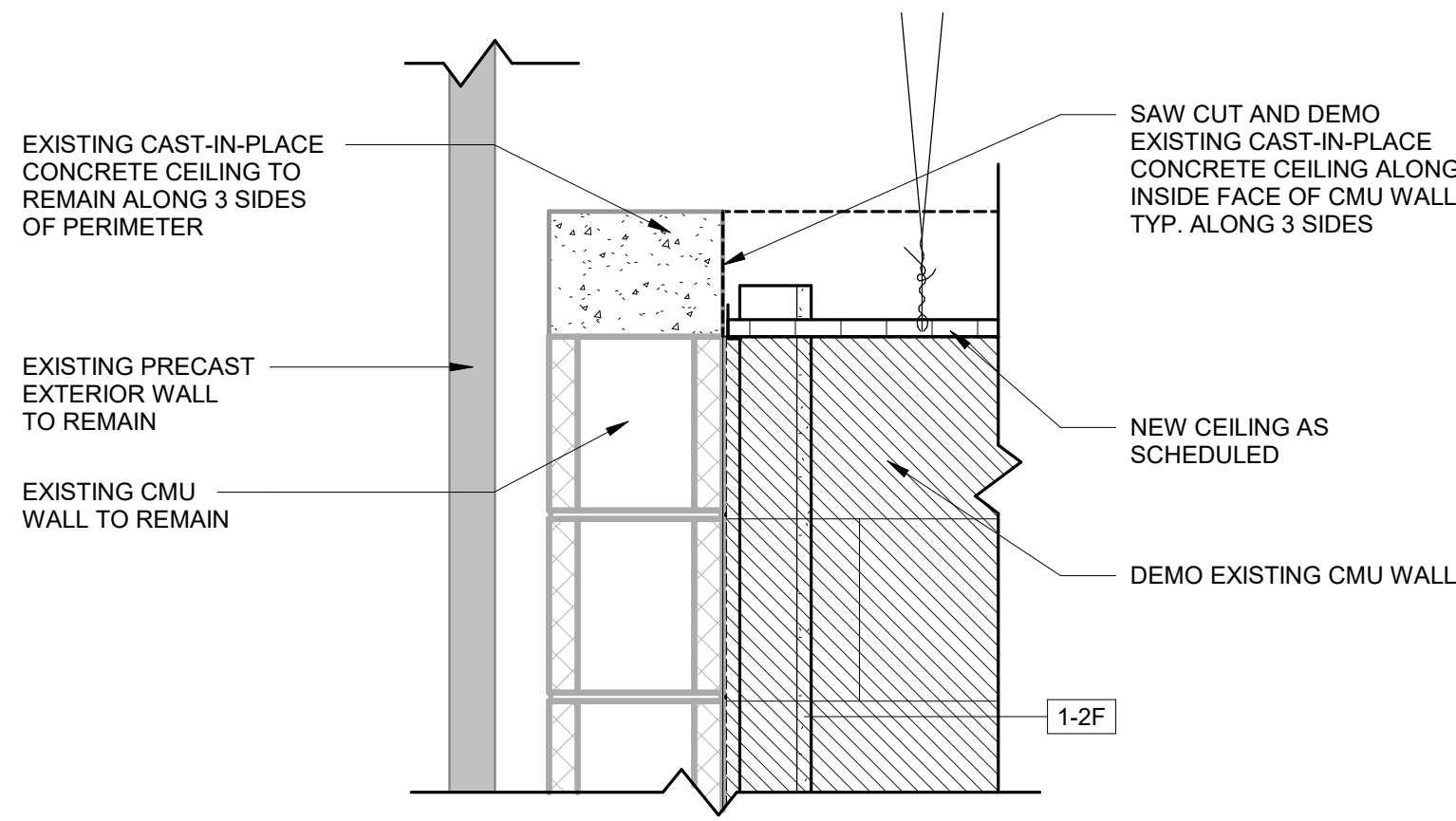
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PROJECT NO:	11738.001
DRAWN BY:	CM
CHECKED BY:	TW
APPROVED BY:	MP
SHEET TITLE:	

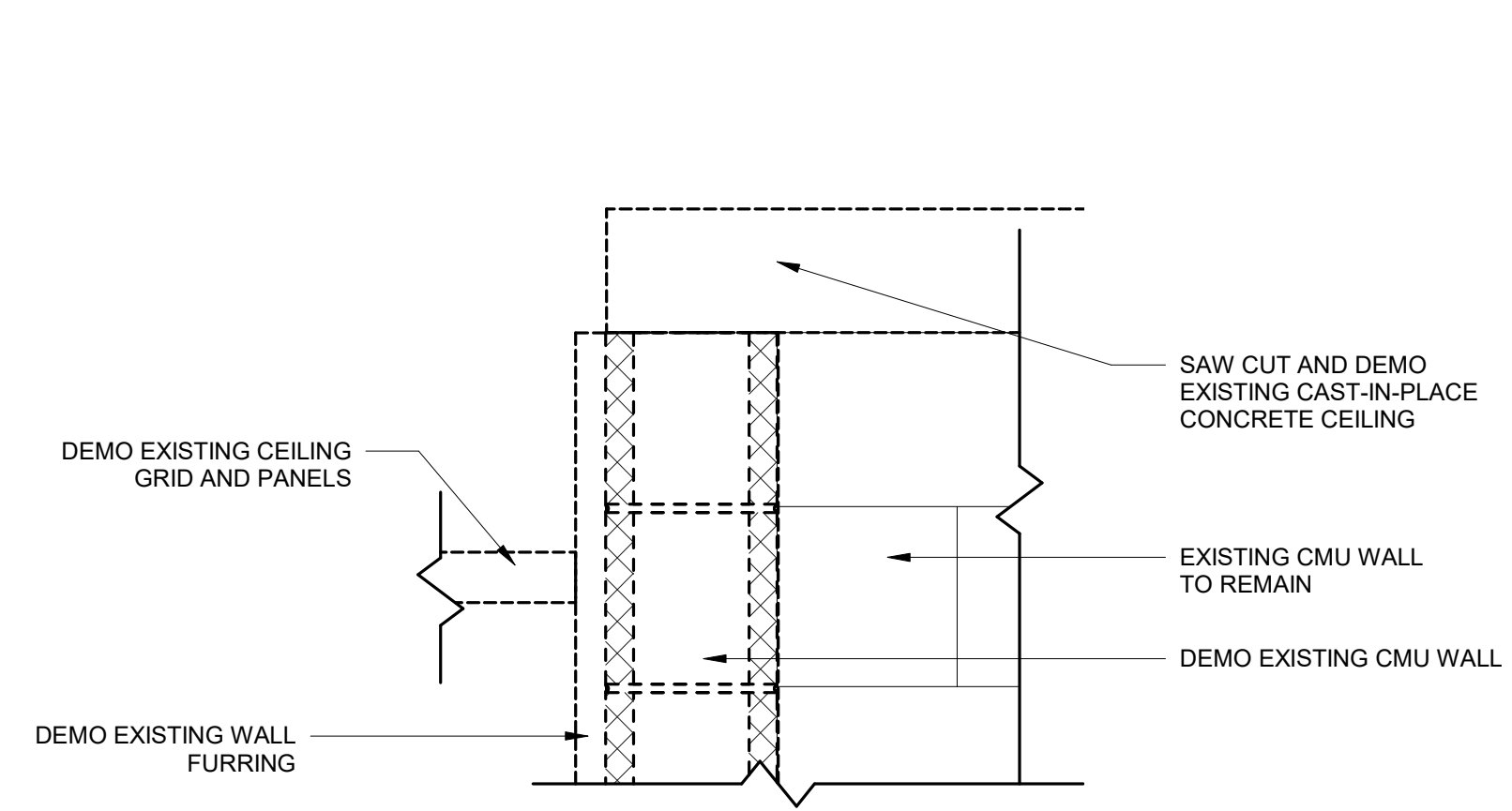
CEILING DETAILS

A-522

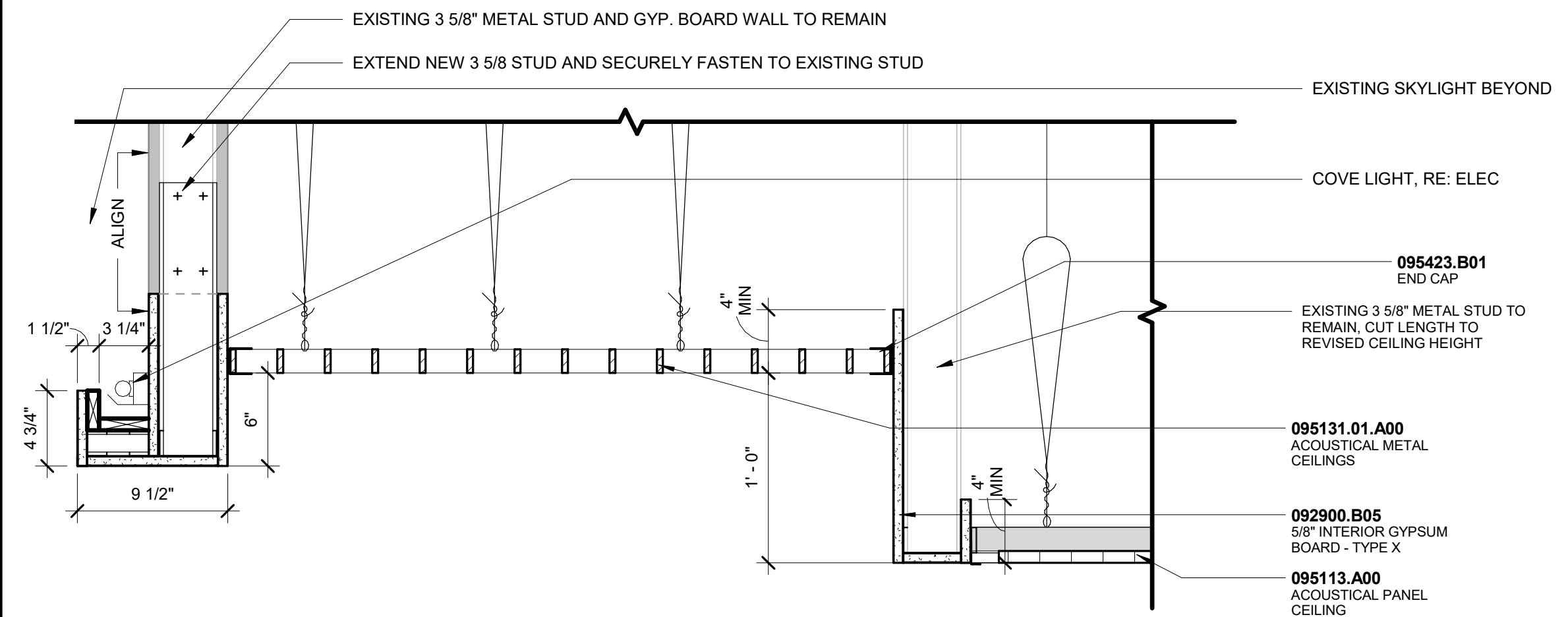
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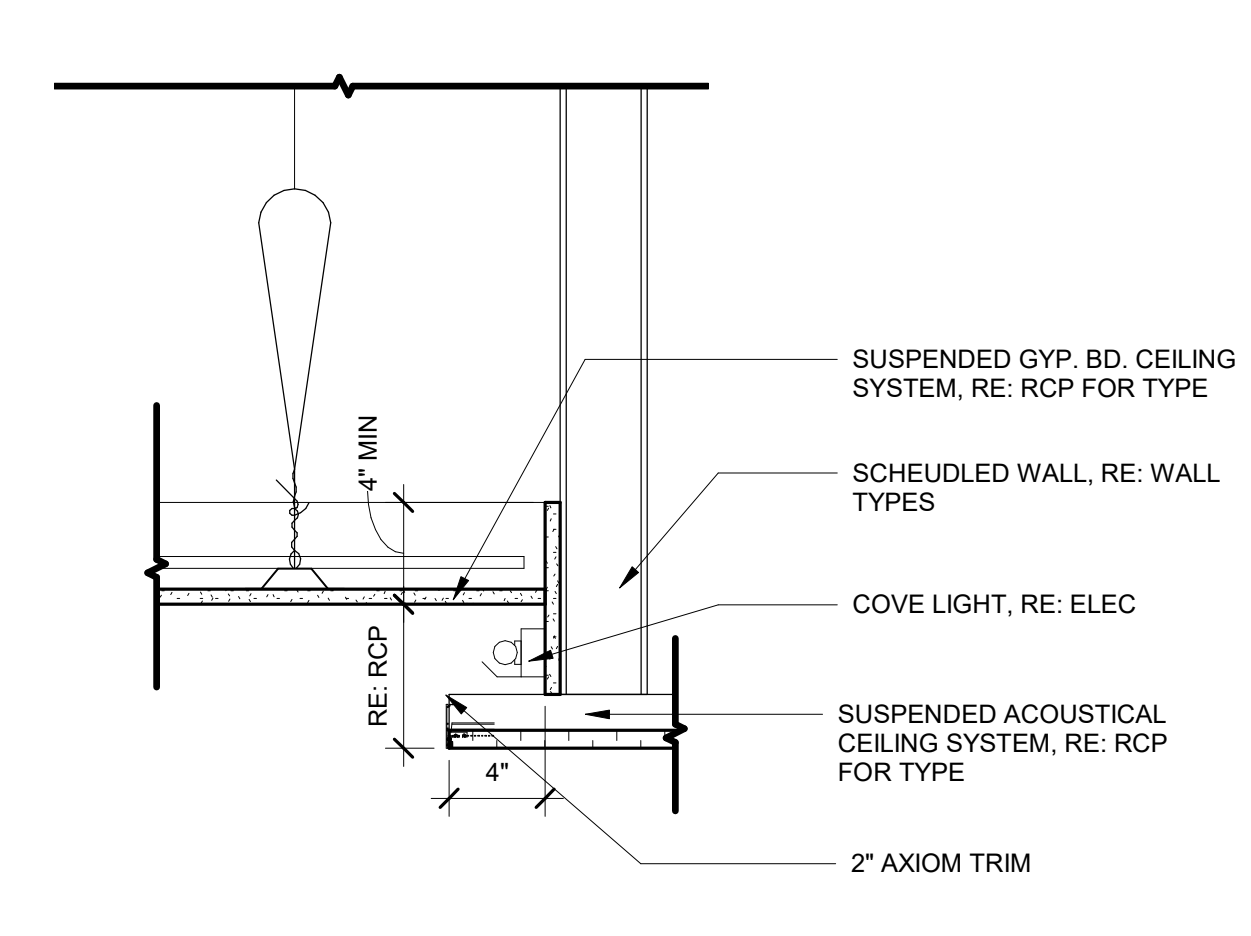
E1 DEMO CEILING DETAIL
1 1/2" = 1'-0"



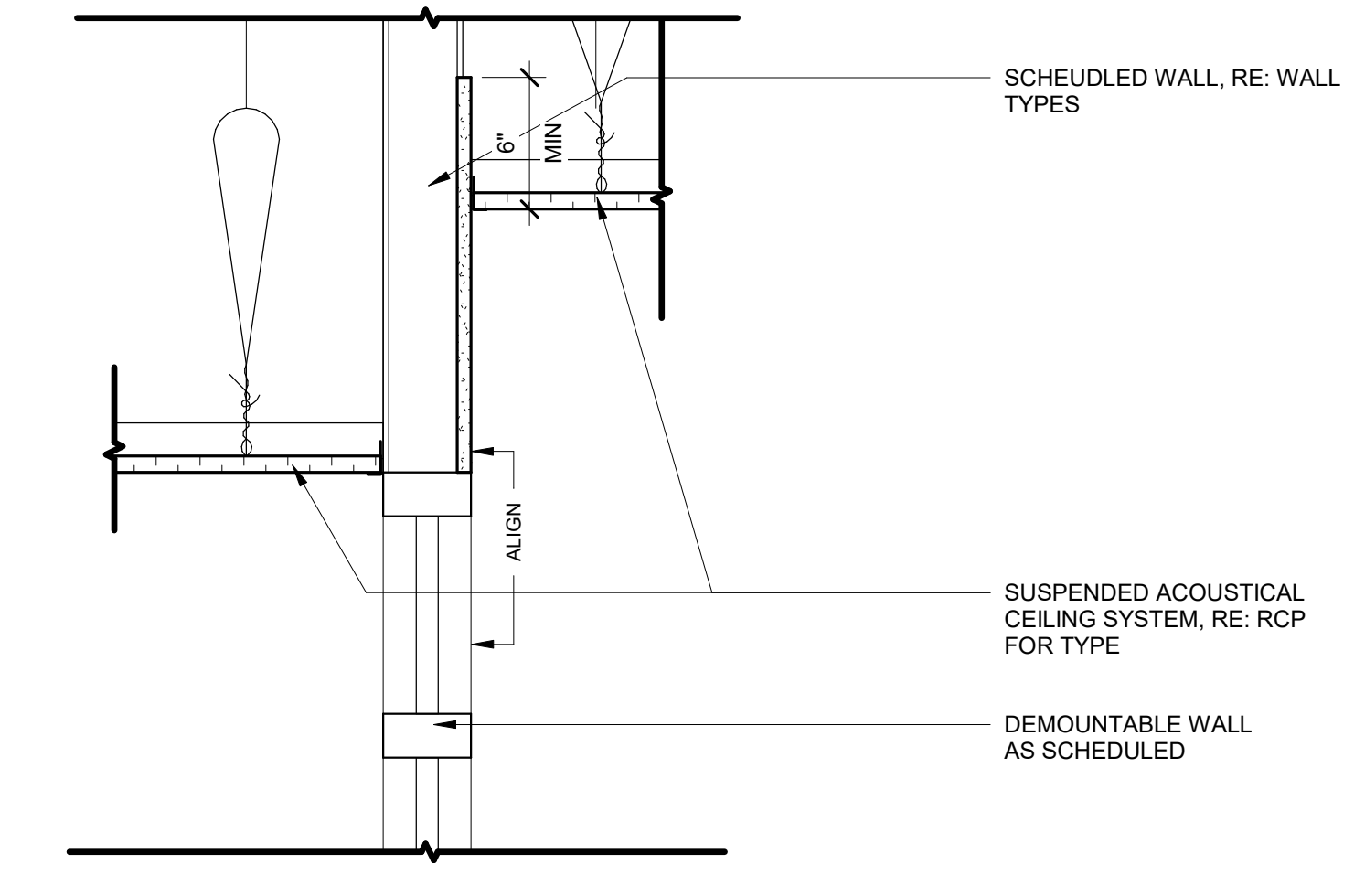
E3 DEMO CEILING DETAIL
1 1/2" = 1'-0"



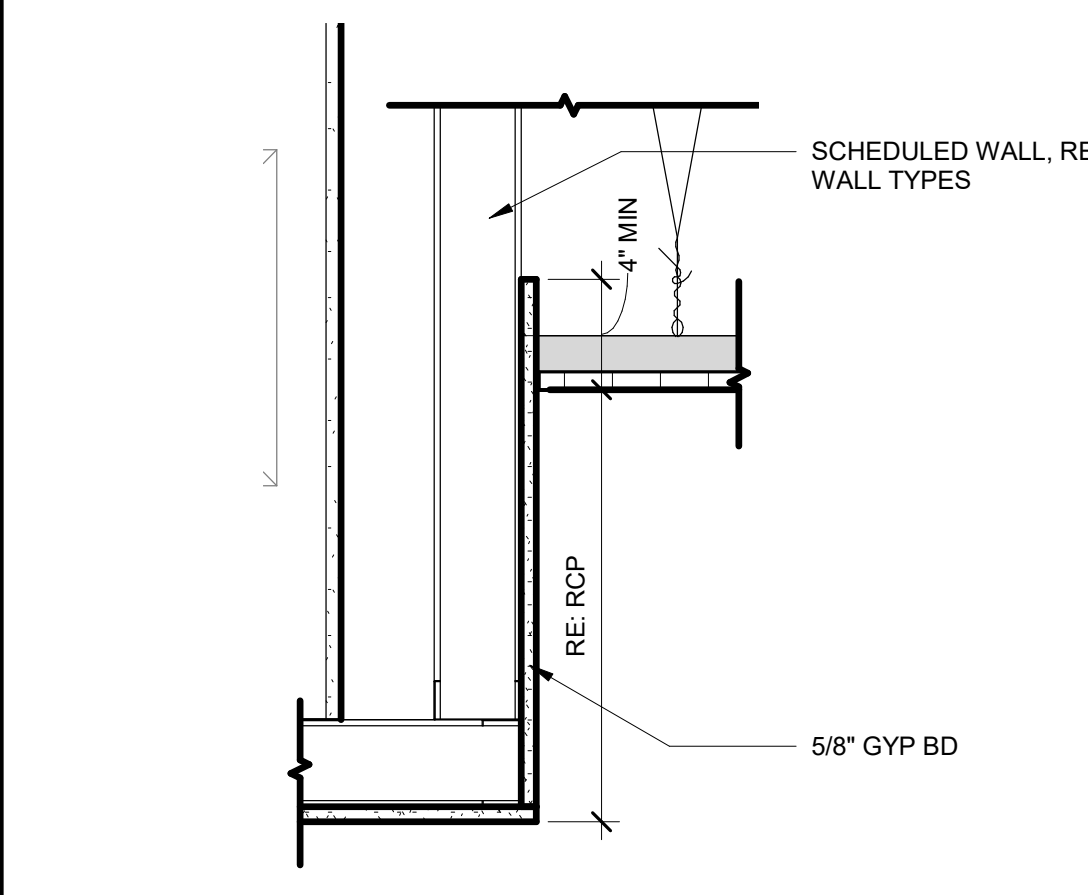
**D1 CEILING DETAIL - MTL TO ACT
TRANSITION @ SKYLIGHT**
1 1/2" = 1'-0"



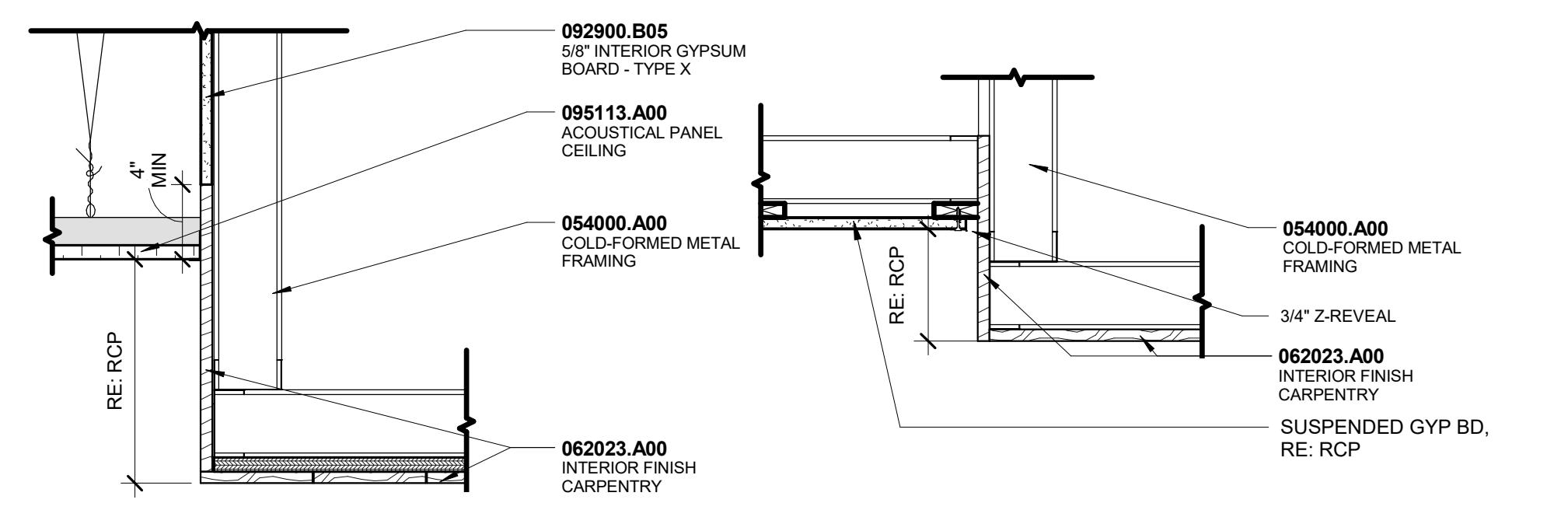
**D3 CEILING DETAIL - COVE LIGHT @
CONFERENCE ROOM**
1 1/2" = 1'-0"



D5 CEILING DETAIL - ACP @ TRANSOM
1 1/2" = 1'-0"

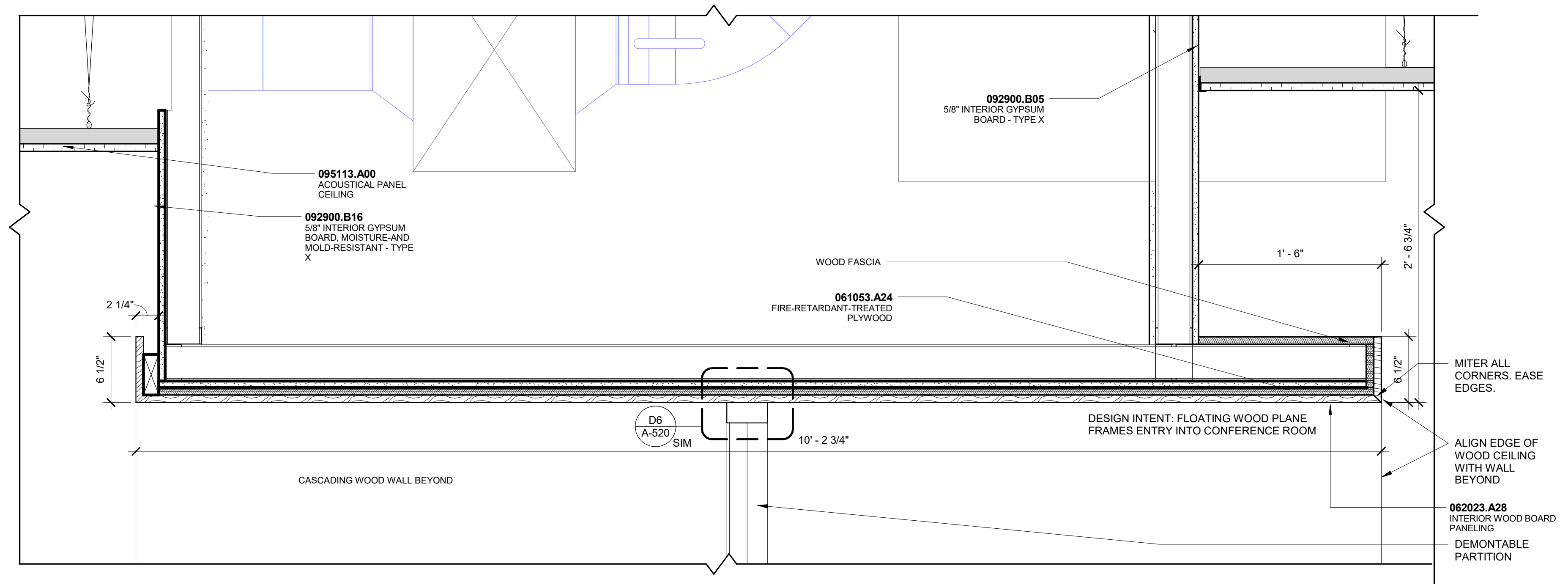


C1 CEILING DETAIL - TYP GYP TO ACT
1 1/2" = 1'-0"

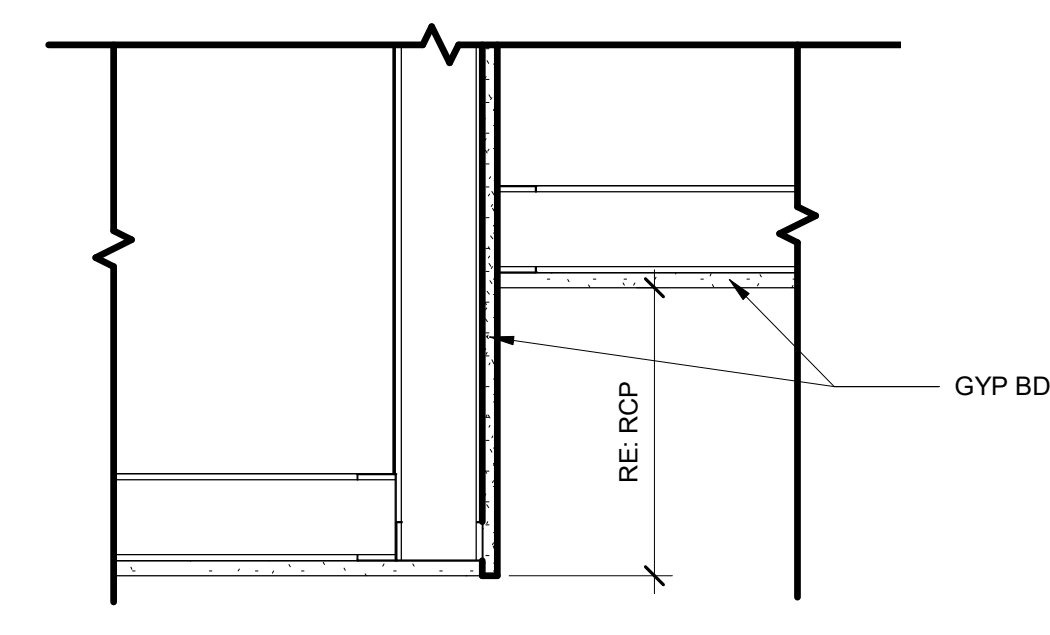


C2 CEILING DETAIL - TYP WD TO ACT
1 1/2" = 1'-0"

C3 CEILING DETAIL - WD TO GYP REVEAL
1 1/2" = 1'-0"



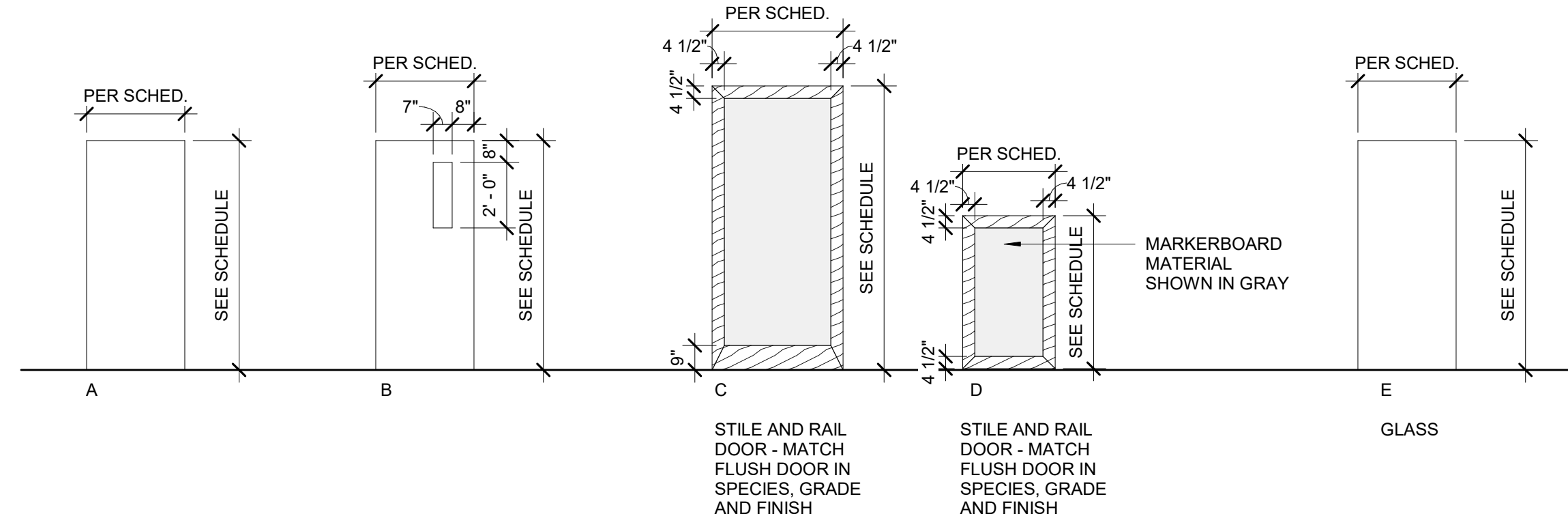
**A1 CEILING DETAIL - CONFERENCE RM
WOOD ENTRY**
1 1/2" = 1'-0"



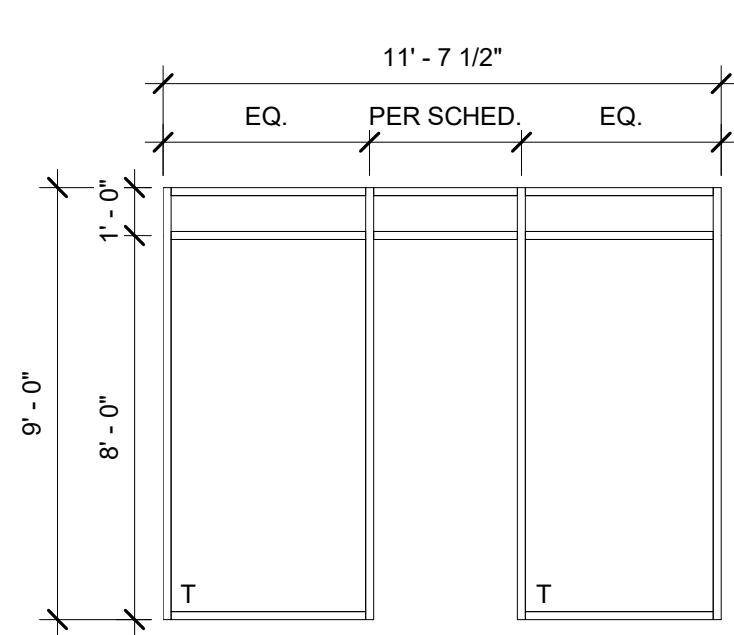
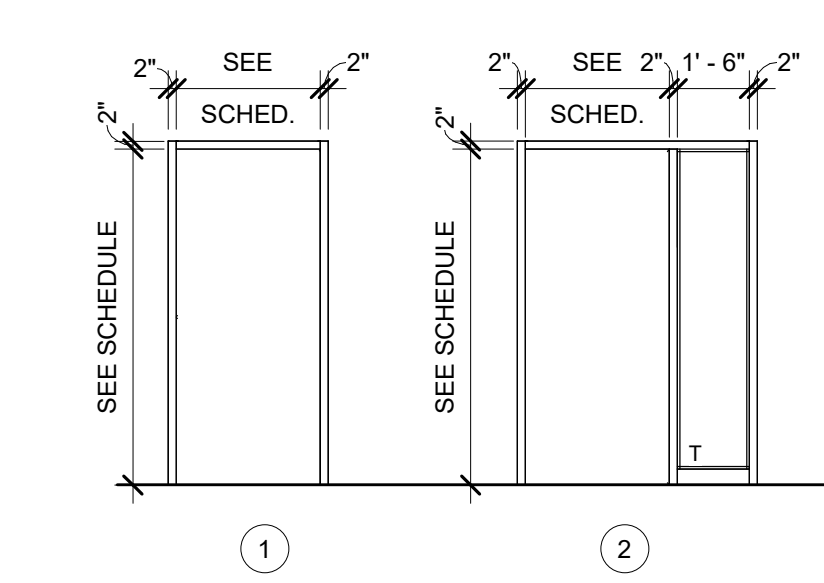
A4 CEILING DETAIL - TYP BULKHEAD
1 1/2" = 1'-0"

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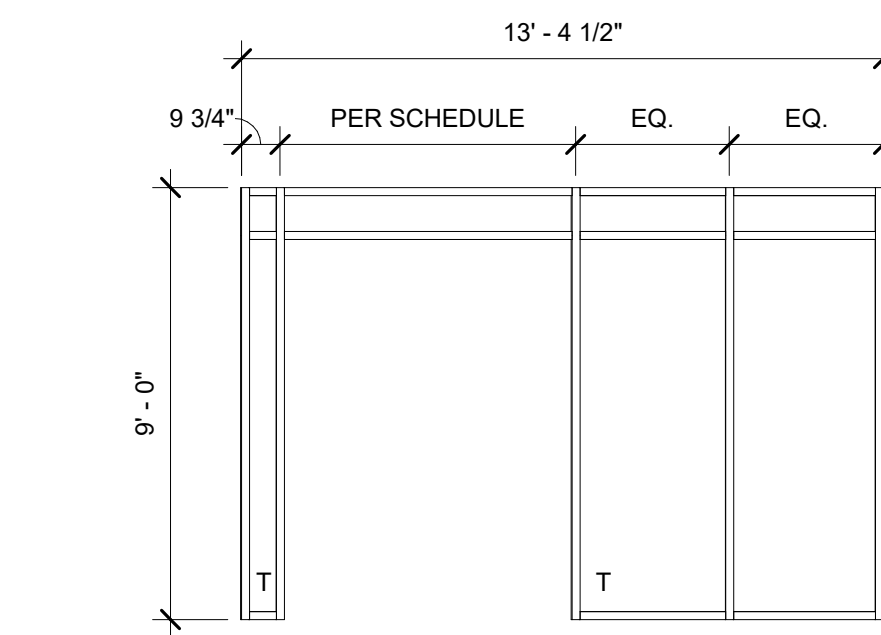
DOOR TYPES



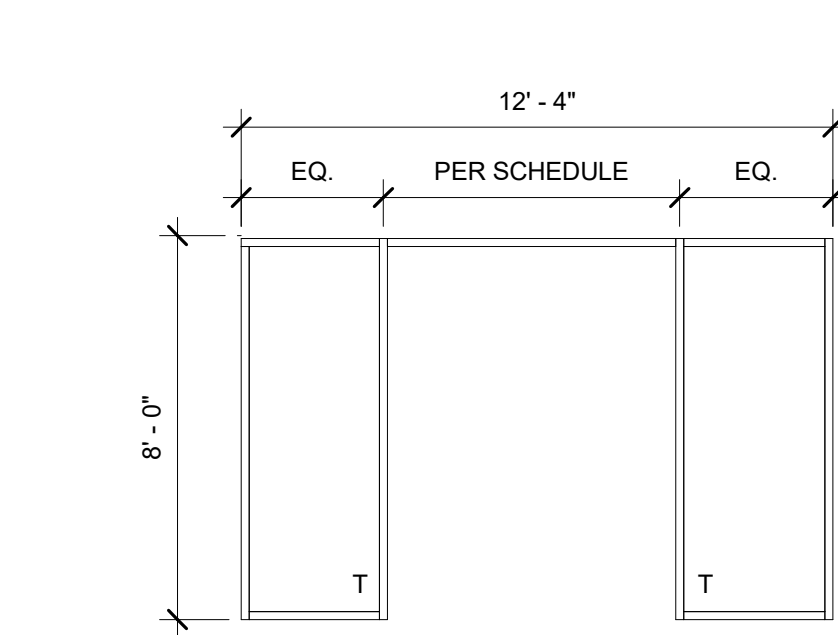
HM FRAME TYPES



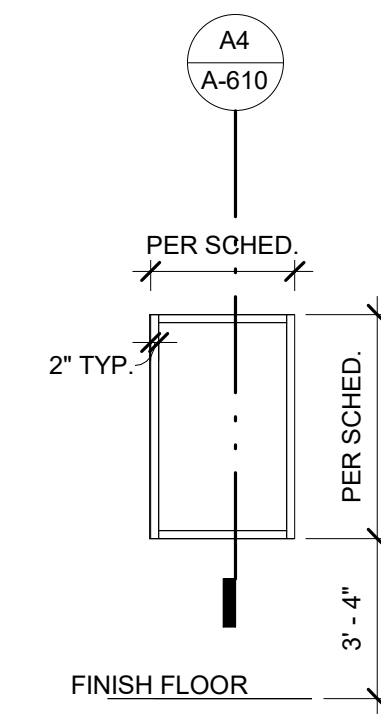
SVA STUDY STOREFRONT - F.1
1/4" = 1'-0"



SVA LOUNGE STOREFRONT - F.2
1/4" = 1'-0"



CONFERENCE ROOM STOREFRONT - F.3
1/4" = 1'-0"



EXTERIOR FRAME - F.4
1/4" = 1'-0"

DOOR SCHEDULE											
DOOR #	ROOM	DOOR				HARDWARE SET	FRAME		DETAILS		
		WIDTH	HEIGHT	TYPE	MATERIAL		TYPE	MATERIAL	HEAD	JAMB	SILL
103	SLIDING BARN DOOR	4'-0"	8'-0"	C	WD	100B			A6/A-521		A6/A-521
104A	RECEPTION/WAITING	3'-0"	7'-0"	B	WD	101	B	HM	B1/A-610	B1/A-610	
104B	CONFERENCE ROOM	3'-0"	7'-0"	B	WD	103	A	HM	B2/A-610	B2/A-610	
104D	STORAGE	2'-8"	7'-0"	A	WD	503	A	HM	B2/A-610	B2/A-610	
104E	OFFICE	2'-8"	7'-0"	B	WD	103	A	HM	B2/A-610	B2/A-610	
104F	OFFICE	3'-0"	7'-0"	B	WD	103	A	HM	B2/A-610	B2/A-610	
104G	OFFICE	3'-0"	7'-0"	B	WD	103	A	HM	B2/A-610	B2/A-610	
104H	OFFICE	3'-0"	7'-0"	B	WD	103	A	HM	B2/A-610	B2/A-610	
104I	OFFICE	3'-0"	7'-0"	B	WD	103	A	HM	B2/A-610	B2/A-610	
104K	CORRIDOR	3'-0"	7'-0"	A	WD	101	A	HM	B2/A-610	B2/A-610	
104L	OFFICE	3'-0"	7'-0"	B	WD	103	A	HM	B2/A-610	B2/A-610	
104M	OFFICE	3'-0"	7'-0"	B	WD	103	A	HM	B2/A-610	B2/A-610	
105A	IT/HELP DESK	3'-0"	7'-0"	A	WD	101	A	HM	B2/A-610	B2/A-610	
105B	SPECIALIST OFFICE	3'-0"	7'-0"	B	WD	103	A	HM	B2/A-610	B2/A-610	
105C	STORAGE	3'-0"	7'-0"	A	WD	503	A	HM	B2/A-610	B2/A-610	
105D	SLIDING BARN DOOR - IT/HELP DESK	2'-10"	4'-8"	D	WD	100B			A1/A-521	D1/A-521	A1/A-521
109	CONF ROOM	6'-0"	7'-9 1/4"	E	GLASS	100	F.3	Aluminum	-	-	
110A	STUDENT VETERANS LOUNGE	6'-0"	7'-11"	E	GLASS	100A	F.2	Aluminum	-	-	
110B	SVA OFFICE	3'-0"	7'-0"	B	WD	103	B	HM	B2/A-610	B2/A-610	
110C	STUDY/COMPUTER	3'-0"	7'-11"	E	GLASS	503A	F.1	Aluminum	-	-	

STOREFRONT SCHEDULE											
TYPE MARK	R.O.		FRAME			DETAILS			GLAZING		COMMENTS
	LENGTH	HEIGHT	MATERIAL	FINISH	HEAD	JAMB	SILL	THICKNESS	TYPE		
F.1	11'-10"	9'-0"	Aluminum	CLEAR	D5/A-522	C2/A-610	-	3/8" TEMP		DEMOUNTABLE PARTITION	
F.2	13'-7 1/4"	9'-2"	Aluminum	CLEAR	D5/A-522 SIM	-	-	3/8" TEMP		DEMOUNTABLE PARTITION	
F.3	12'-5"	8'-0"	Aluminum	CLEAR	D6/A-520	D6/A-520	D6/A-520	3/8" TEMP		DEMOUNTABLE PARTITION	
F.4	3'-0"	4'-8"	Aluminum	CLEAR	A4/A-610	A3/A-610	A4/A-610	1" INSULATED		ALTERNATE NO. 4	

WINDOW SCHEDULE										
Type Mark	R.O.		Finish	Glazing		HEAD DETAIL	JAMB DETAIL	SILL DETAIL	Comments	
	Width	Height		Thickness	Type					
A	4'-0"	4'-2"	HM-PAINT	1/4"	CLEAR	B1/A-610	B1/A-610	B1/A-610		

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CONSULTANT:



PROJECT:
CROSSROADS BUILDING RENOVATION

1400 EAST COLLEGE DRIVE
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OWNER:
LARAMIE COUNTY COMMUNITY COLLEGE

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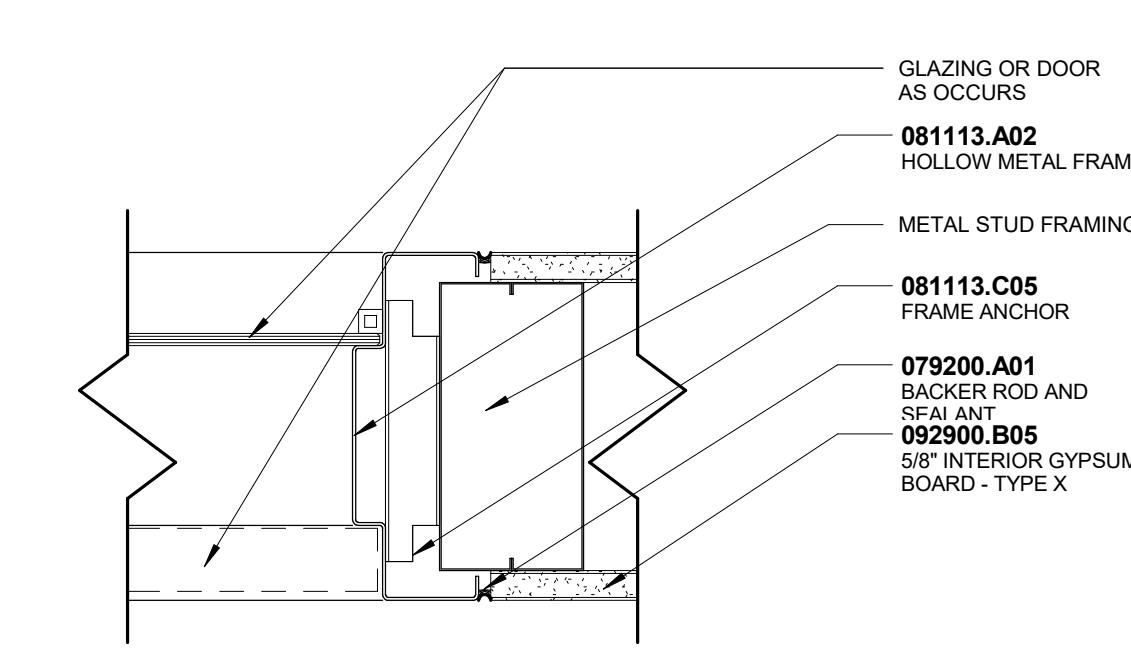
ISSUE:
1.4.2018 CONTRACT DOCUMENTS

DRAWING INFORMATION:	
PROJECT NO:	11738.001
DRAWN BY:	Author
CHECKED BY:	Checker
APPROVED BY:	Approver
SHEET TITLE:	

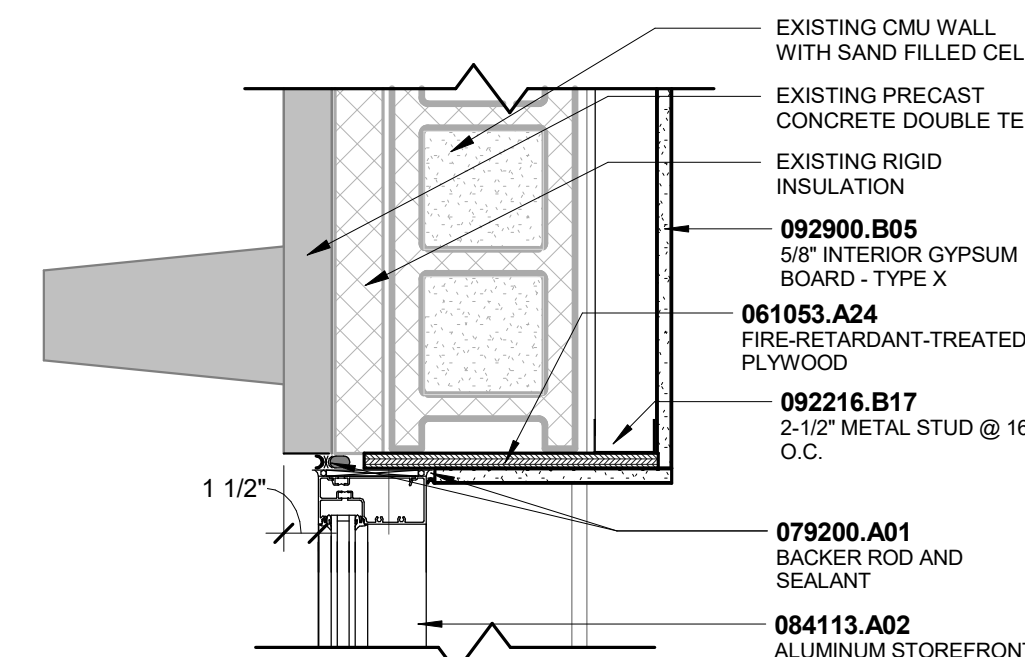
DOOR, WINDOW & STOREFRONT SCHEDULE & TYPES

A-610
SHEET OF

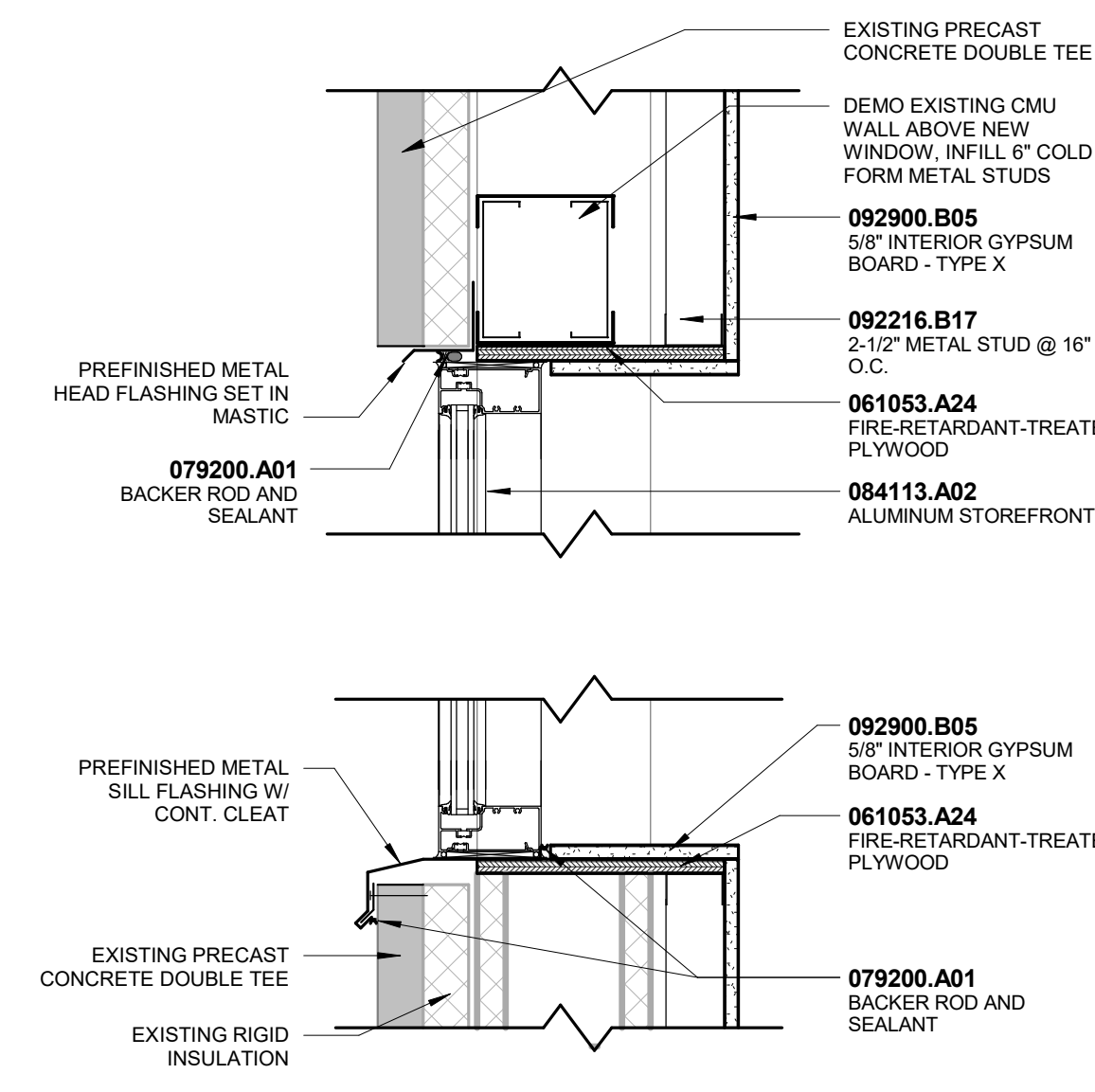
C2 JAMB DETAIL
1 1/2" = 1'-0"



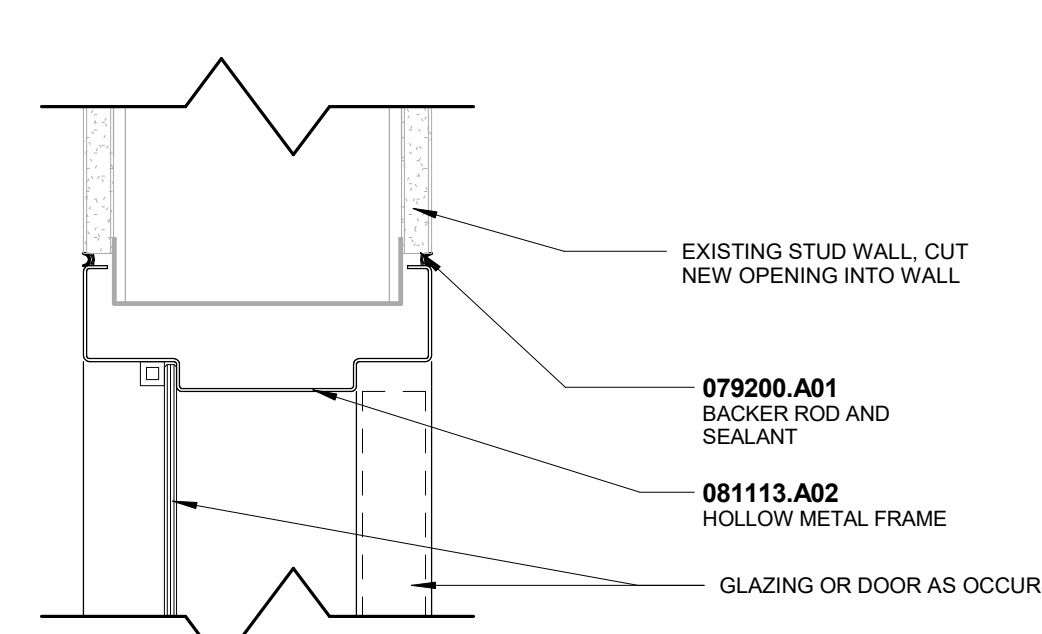
B3 TYP. HM HEAD DETAIL
3" = 1'-0"



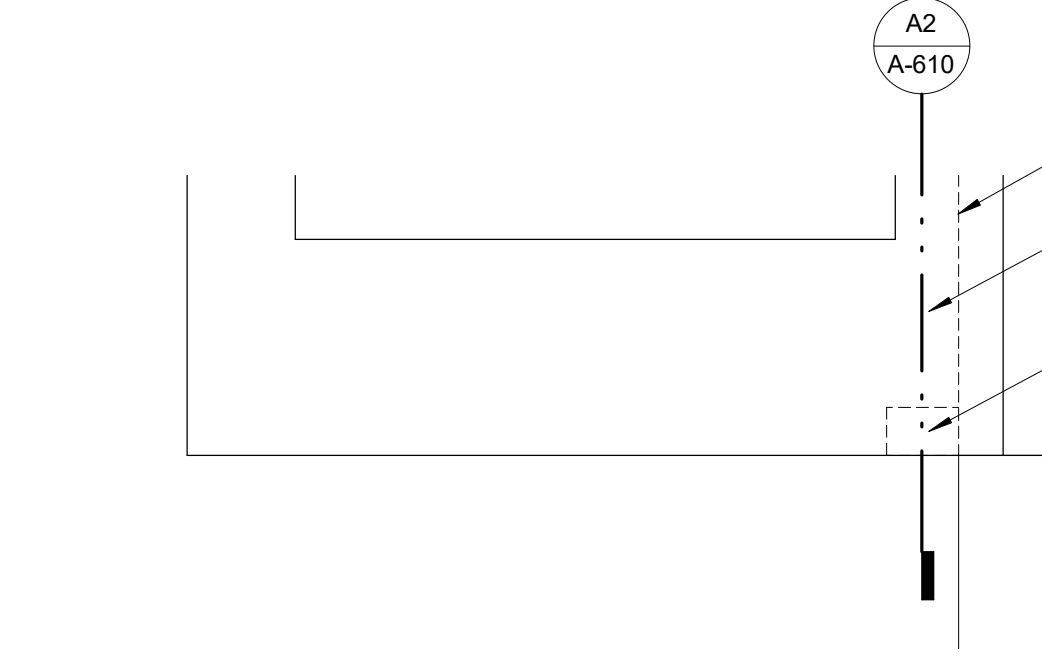
A4 STOREFRONT HEAD & SILL DETAIL
1 1/2" = 1'-0"



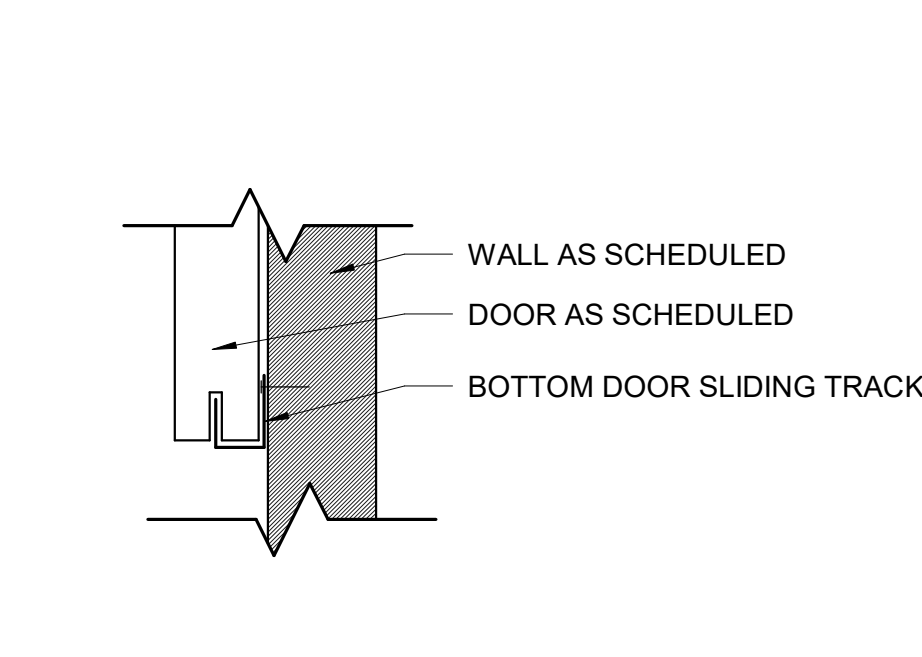
B1 HM WINDOW DETAIL IN EXISTING WALL
3" = 1'-0"



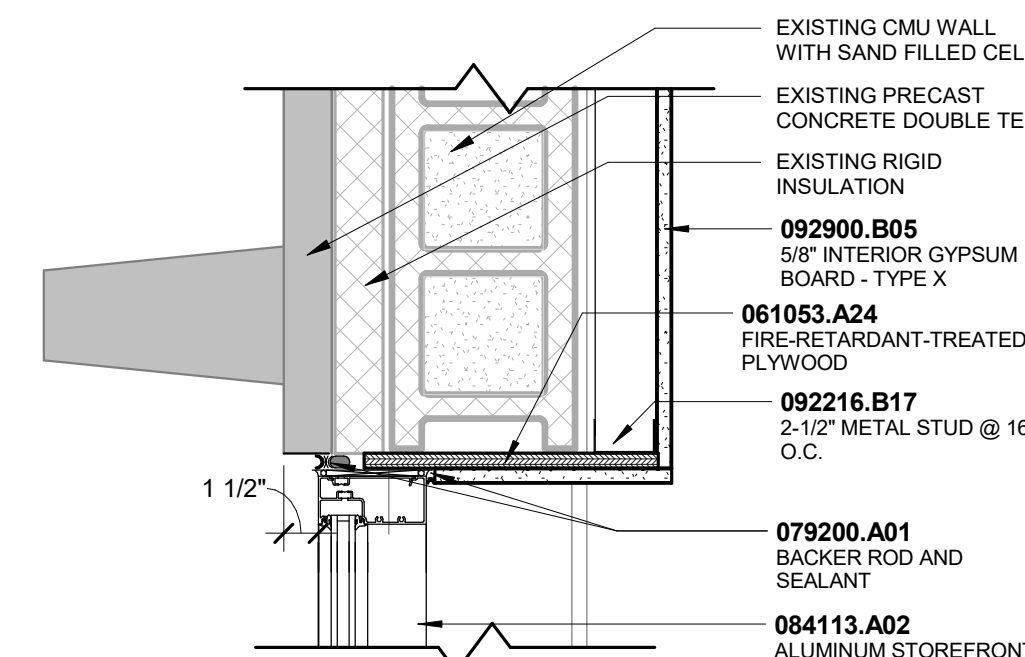
A1 SLIDING DOOR DETAIL
1 1/2" = 1'-0"



A2 SLIDING DOOR DETAIL
3" = 1'-0"

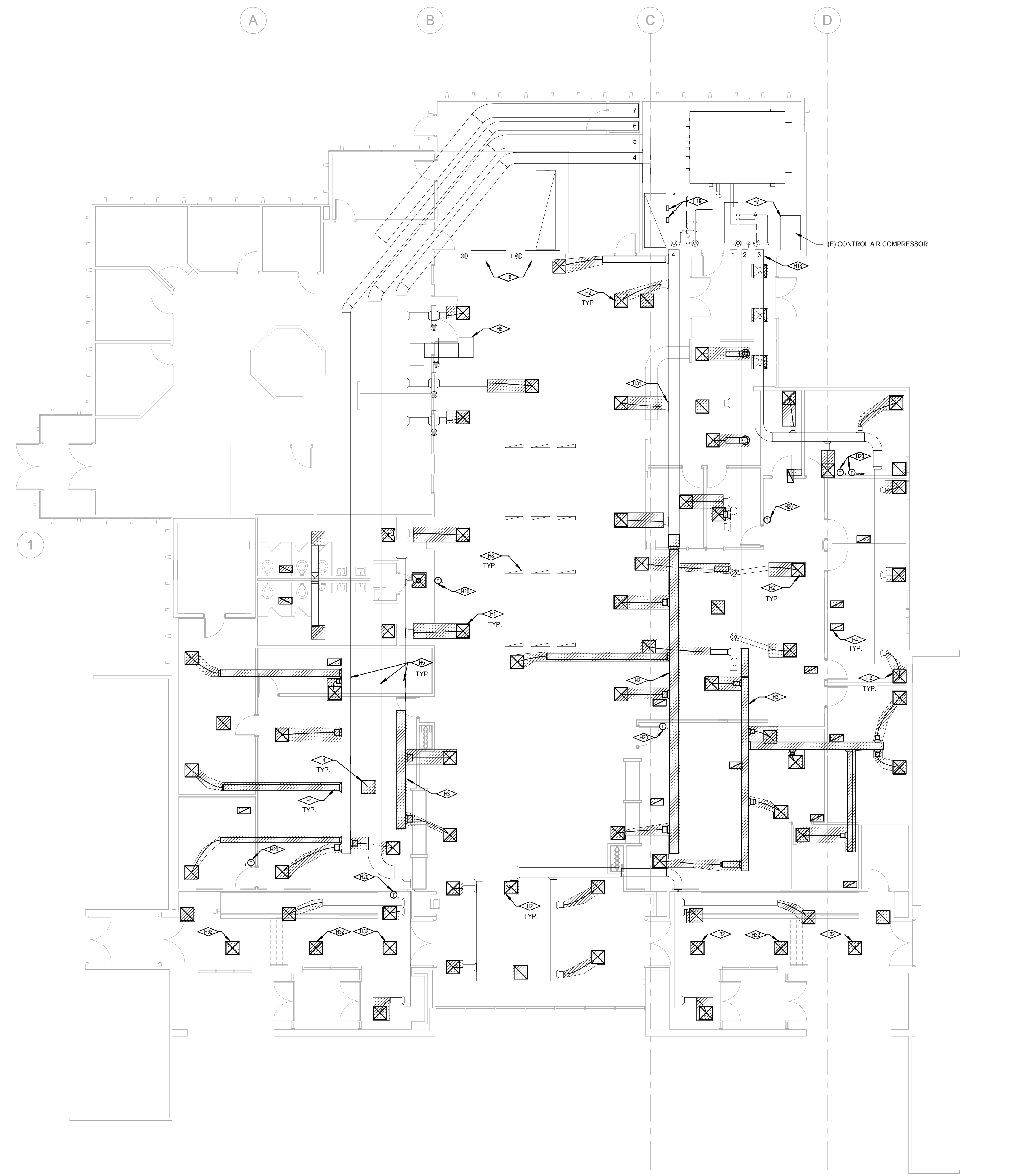


A3 STOREFRONT JAMB DETAIL
1 1/2" = 1'-0"

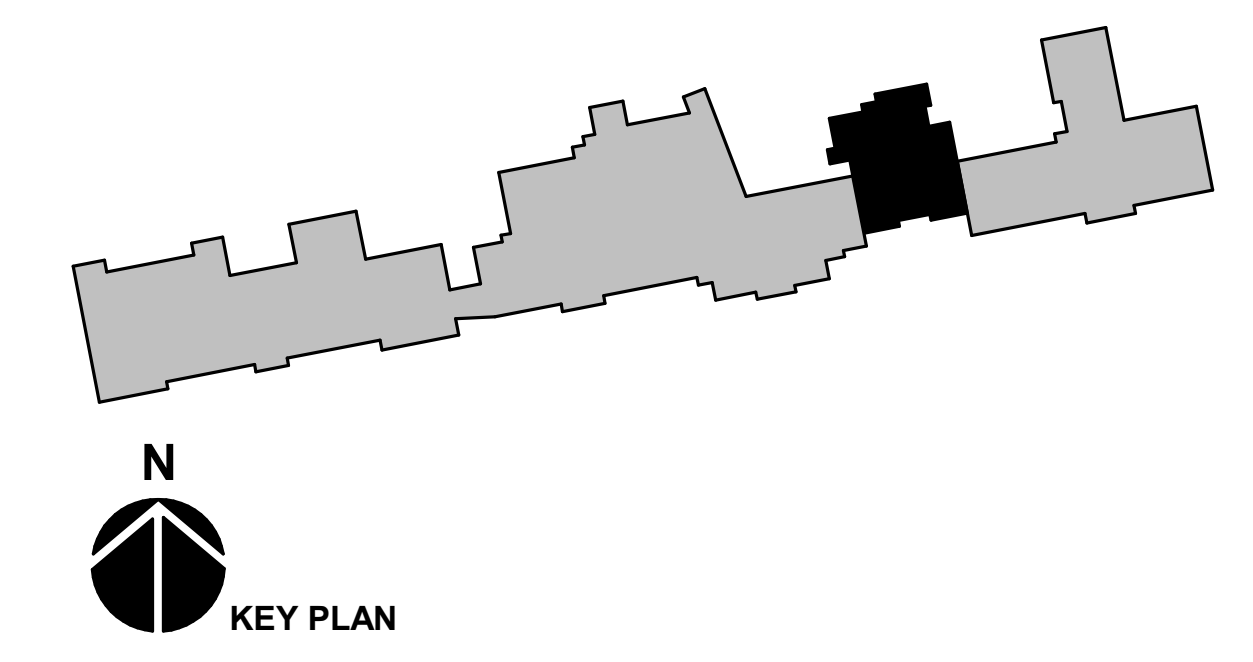


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KEYNOTES	
H1	DEMOLISH AND DISPOSE OF EXISTING DIFFUSER, FLEX AND DISTRIBUTION DUCT. RE-USE DUCT TAP WHERE POSSIBLE FOR REVISED DISTRIBUTION. OTHERWISE CAP AT MAIN.
H2	DEMOLISH AND DISPOSE OF EXISTING DIFFUSER AND FLEX DUCT.
H3	DEMOLISH AND DISPOSE OF EXISTING DUCT MAIN AND ASSOCIATED DISTRIBUTION AND DIFFUSERS.
H4	DISPOSE OF EXISTING RETURN AIR GRILLES AND ANY ASSOCIATED RETURN BOOTS. TYP.
H5	EXISTING DUCT BOARD MAINS AND DISTRIBUTION DUCTWORK NOT SHOWN HATCHED ARE TO REMAIN. TYP.
H6	EXISTING RETURNS ARE TO REMAIN.
H7	(E) CONTROL AIR COMPRESSOR TO BE DEMOLISHED IF CONTROLS ARE UPGRADED TO DDC (MECHANICAL ADD ALTERNATE 2).
H8	EXISTING RETURN AIR GRILLES IN SKYLIGHT SOFFITS TO REMAIN.
H18	NUMBER DENOTES ZONE COORDINATING WITH THERMOSTAT ZONE NUMBER. TYP.
H19	REMOVE (E) DAMPER ACTUATORS AND LOCK DAMPERS IN "OPEN" POSITION. (MECHANICAL ADD ALTERNATE 2).
H20	REMOVE (E) THERMOSTAT. (MECHANICAL ADD ALTERNATE 2).
H31	EXISTING SPRINGS HAVE MANUAL VOLUME DAMPERS. TYP.
H32	DISCONNECT AND REMOVE (E) DIFFUSERS SERVING ABANDONED IN PLACE FAN COIL UNIT IN PLENUM.



↑ FIRST FLOOR HVAC DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



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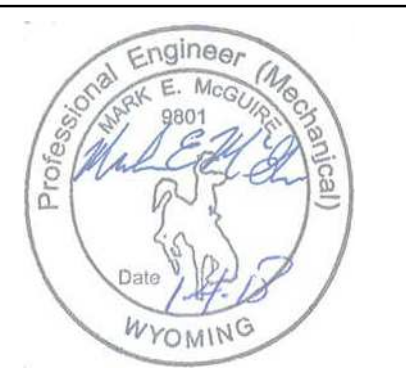
CONSULTANT:

CATOR | RUMA
& ASSOCIATES, CO.

896 Tabor Street
Lakewood, CO 80401
303.232.6200 (P)
303.233.3701 (F)

420 W. Lincolnway
Cheyenne, WY 82001
307.274.3830 (P)
303.233.3701 (F)

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PROJECT:

**CROSSROADS
BUILDING
RENOVATION**

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

OWNER:

**LARAMIE COUNTY
COMMUNITY
COLLEGE**

1400 EAST COLLEGE DRIVE
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ISSUE:

01.04.2018 CONTRACT DOCUMENTS

DRAWING INFORMATION:

PROJECT NO: 11738.001

DRAWN BY: ELC

CHECKED BY: MEM

APPROVED BY: MEM

SHEET TITLE:

**FIRST FLOOR HVAC
DEMOLITION PLAN**

MD-111

SHEET OF

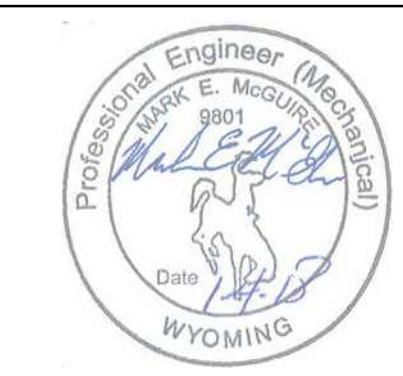
CONSULTANT:



896 Tabor Street
Lakewood, CO 80401
303.232.6200 (P)
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420 W. Lincolnway
Cheyenne, WY 82001
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303.233.3701 (F)

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**LARAMIE COUNTY
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DRAWING INFORMATION:

PROJECT NO:	11738.001
DRAWN BY:	ELC
CHECKED BY:	MEM
APPROVED BY:	MEM
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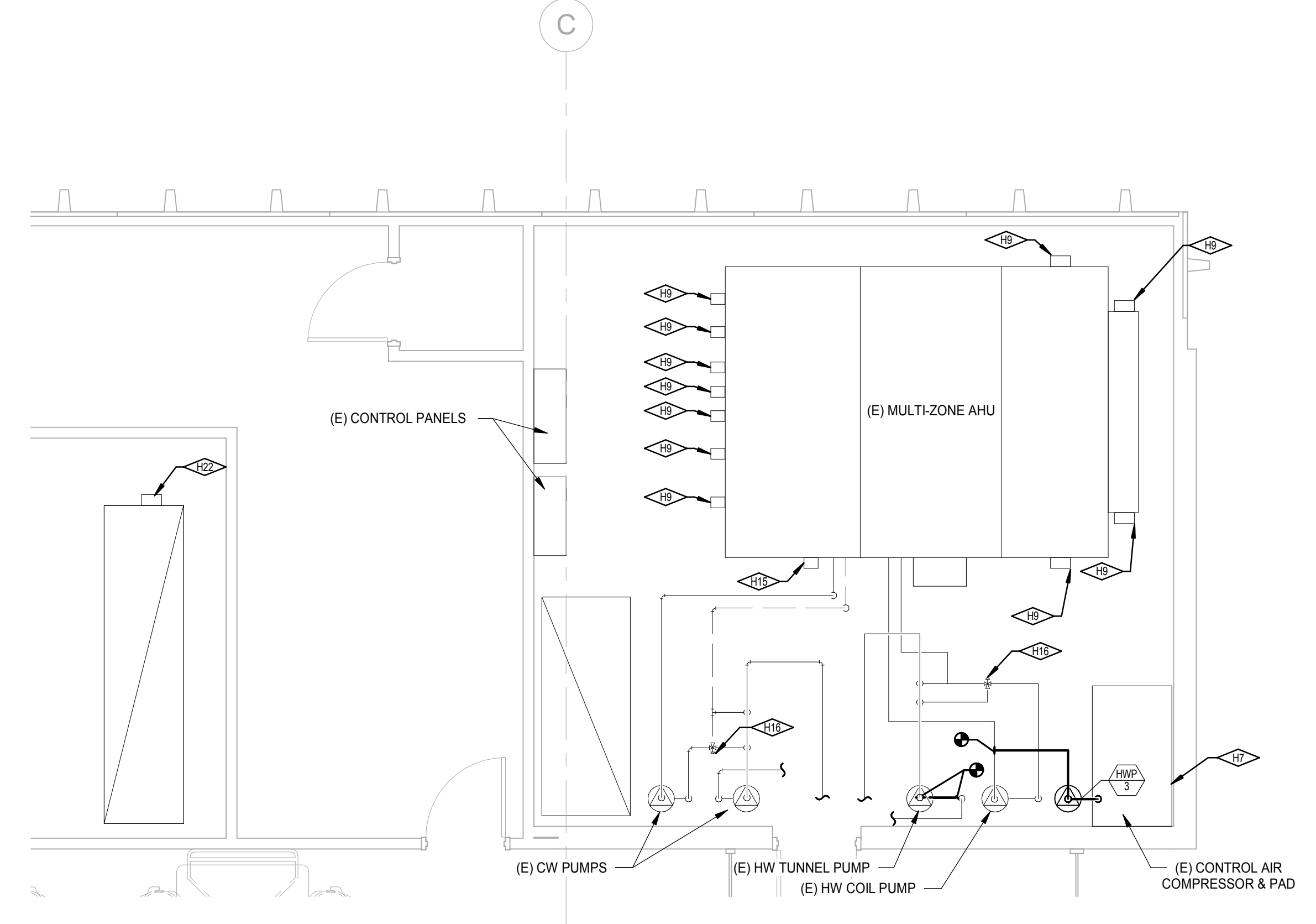
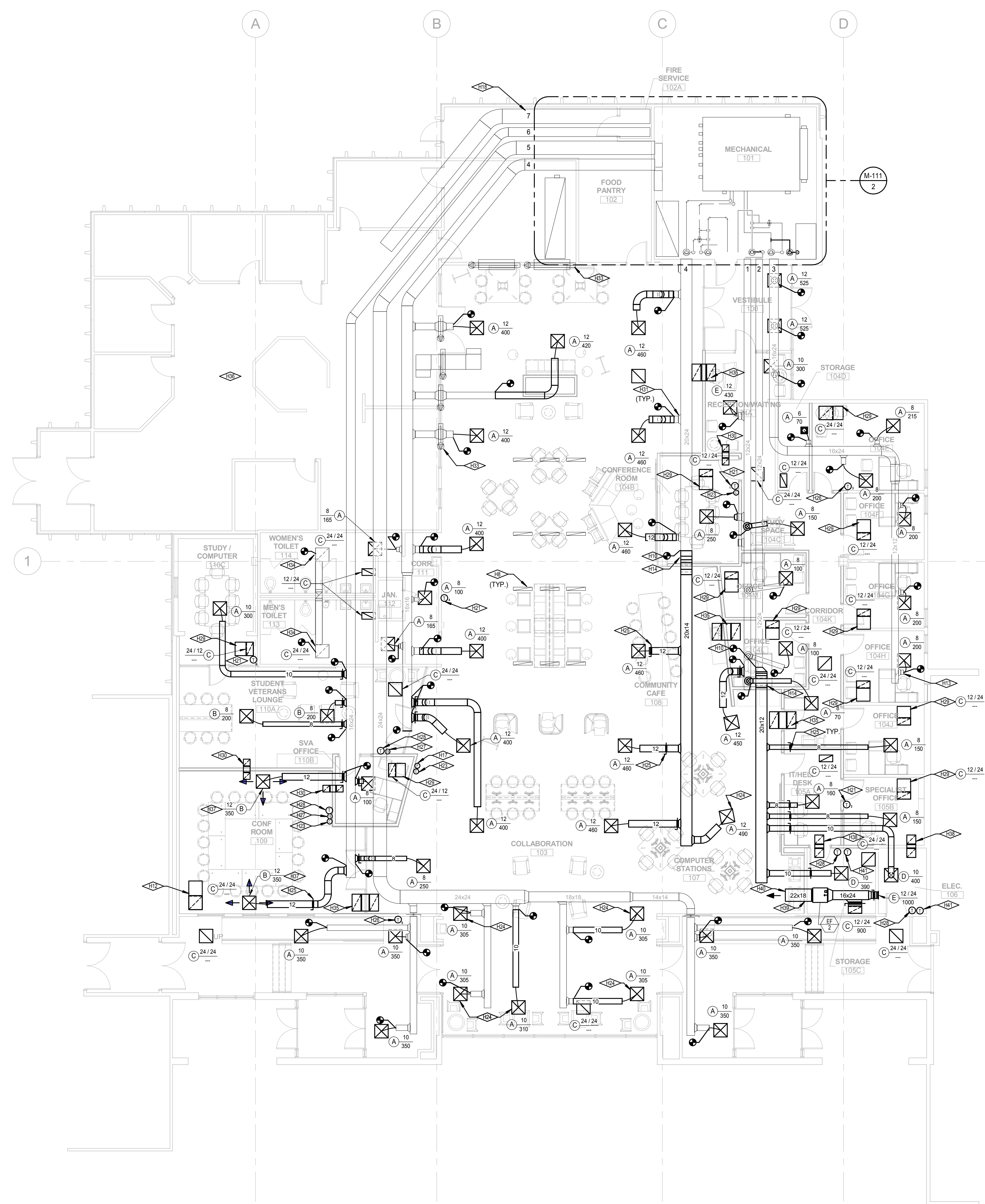
**FIRST FLOOR HVAC
PLAN**

M-111

SHEET OF

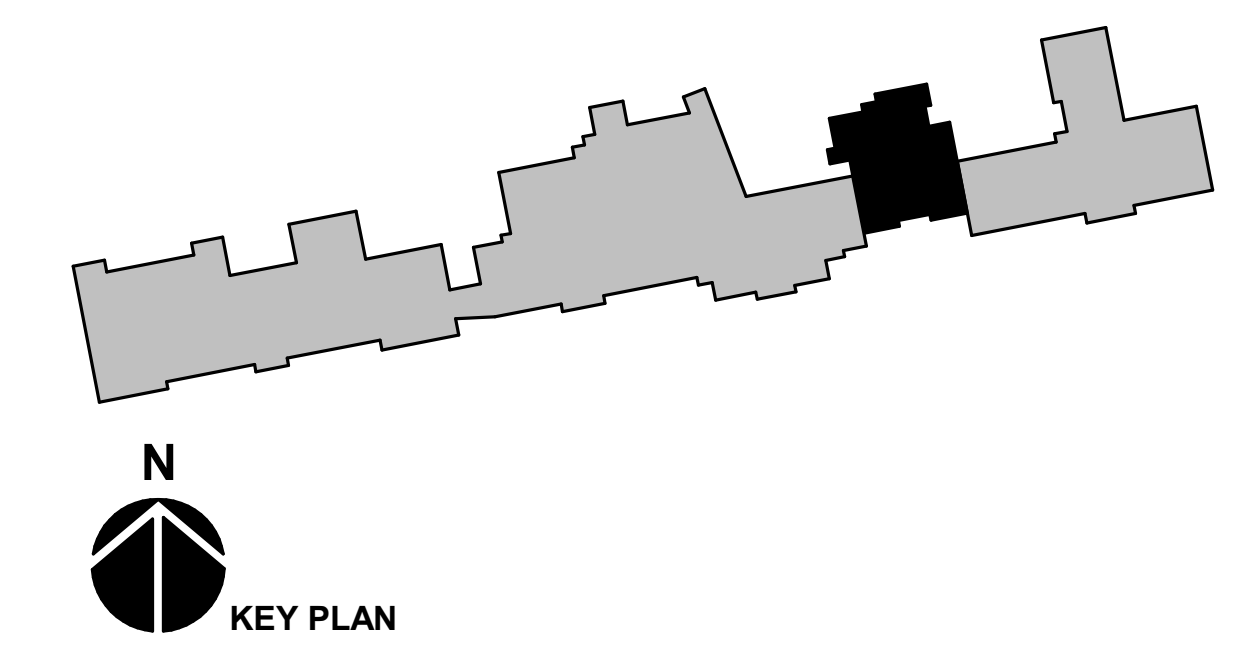
KEYNOTES

- H7 (E) CONTROL AIR COMPRESSOR TO BE DEMOLISHED IF CONTROLS ARE UPGRADED TO DDC (MECHANICAL ADD ALTERNATE 2).
- H8 EXISTING RETURN AIR GRILLES IN SKYLIGHT SOFFITS TO REMAIN.
- H9 (E) PNEUMATIC DAMPER ACTUATOR TO BE REPLACED WITH DDC ACTUATOR FOR CONTROLS UPGRADE (MECHANICAL ADD ALTERNATE 2).
- H10 CONNECT TO EXISTING DUCT BOARD IN THIS APPROXIMATE LOCATION.
- H12 INSTALL 1" LINED RETURN BOOT BEHIND GRILLE. RE: SOUND ELBOW DETAIL.
- H13 CONNECT NEW FLEX DUCT TO EXISTING TAP/DISTRIBUTION. TYP.
- H14 ALIGN TOP OF DUCTS AT TRANSITION. OFFSET DUCTWORK UP TO ACCOMMODATE RAISED CEILING IN THIS AREA.
- H15 (E) PNEUMATIC DUCT SMOKE DETECTOR. REPLACE SMOKE DETECTOR AND ASSOCIATED SENSORS FOR DDC UPGRADE (MECHANICAL ADD ALTERNATE 2).
- H16 (E) PNEUMATIC ACTUATOR ON EXISTING CONTROL VALVE. REPLACE ACTUATOR ON VALVE FOR DDC UPGRADE (MECHANICAL ADD ALTERNATE 2).
- H17 LOCATION OF BUILDING STATIC PRESSURE SENSOR. (MECHANICAL ADD ALTERNATE 2).
- H18 NUMBER DENOTES ZONE COORDINATING WITH THERMOSTAT ZONE NUMBER. TYP.
- H21 INSTALL NEW DDC THERMOSTAT IN THIS APPROXIMATE LOCATION. FIELD COORDINATE. (MECHANICAL ADD ALTERNATE 2). IF ALTERNATE IS NOT ACCEPTED, RELOCATE EXISTING ZONE THERMOSTAT TO THIS APPROXIMATE LOCATION.
- H22 LOCATION OF (E) PNEUMATIC RELIEF AIR DAMPER ACTUATOR TO BE FIELD VERIFIED AND REPLACED FOR DDC UPGRADE (MECHANICAL ADD ALTERNATE 2).
- H23 CO2 SENSOR. (MECHANICAL ADD ALTERNATE 2).
- H24 PROVIDE DIFFUSER WITH OPTIONAL DAMPER FOR BALANCING IN HARD LID CEILING.
- H25 PROVIDE MANUAL BALANCING DAMPER OVER ACCESSIBLE CEILING. TYP.
- H26 INSTALL NEW DDC THERMOSTAT IN THIS APPROXIMATE LOCATION. FIELD COORDINATE. (MECHANICAL ADD ALTERNATE 2). IF ALTERNATE IS NOT ACCEPTED, EXISTING ZONE THERMOSTAT TO REMAIN IN THIS LOCATION.
- H27 REMOTE TEMPERATURE SENSOR FOR ZONE THERMOSTAT T6 (MECHANICAL ADD ALTERNATE 2). REFER TO SPECIFICATIONS FOR SEQUENCE.
- H28 THERMA-FUSER THERMOSTAT FOR DIFFUSER(S) IN ASSOCIATED ROOM.
- H29 PROVIDE LINED ELBOW BEHIND RETURN GRILLE. RE: SOUND ELBOW DETAIL.
- H30 PROVIDE 12"x12" (1" LINED) TRANSFER AIR "U" BOOT ABOVE THE CEILING IN THIS APPROXIMATE LOCATION.
- H31 EXISTING SPIN-INS HAVE MANUAL VOLUME DAMPERS. TYP.
- H33 EXISTING FIRE/SMOKE DAMPERS TO REMAIN. SEPARATION IS NO LONGER REQUIRED SINCE ALL AREAS WILL NOW BE SPRINKLED.
- H34 TRANSITION AS NEEDED FROM NEW GRILLE TO (E) EXHAUST DUCTWORK TO ACCOMMODATE NEW CEILING GRID.
- H35 PROVIDE 30"x16" (1" LINED) TRANSFER AIR "U" BOOT ABOVE THE CEILING IN THIS APPROXIMATE LOCATION. COORDINATE BLOCKING THROUGH FRAMING WITH G.C.
- H36 NO SCOPE IN AREA NOTED.
- H37 PROVIDE ACUTHERM DIRECTIONAL BAFFLES FOR 3-WAY FLOW PATTERN.
- H38 PROVIDE 16"x16" (1" LINED) TRANSFER AIR "U" BOOT ABOVE THE CEILING IN THIS APPROXIMATE LOCATION. COORDINATE FINAL LOCATION IN FIELD WITH STRUCTURE. COORDINATE BLOCKING THROUGH FRAMING WITH G.C.
- H39 COORDINATE BLOCKING FOR DUCT THROUGH FULL HEIGHT WALL FRAMING WITH G.C.
- H40 TERMINATE DUCT OPEN ENDED WITH 1/4" MESH SCREEN IN PLENUM.
- H41 LINE VOLTAGE HIGH-LIMIT THERMOSTAT TO TURN EF-2 "ON" AT 70 DEG. (ADJ.). RE: ELEC. PLANS.



2 ENLARGED MECHANICAL ROOM
1/4" = 1'-0"

FIRST FLOOR HVAC PLAN
SCALE: 1/8" = 1'-0"



PLUMBING LEGEND (Not all symbols listed below are used on these drawings)					
ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
CW	---	DOMESTIC COLD WATER PIPING	SCO	⊙	SURFACE CLEANOUT
HW	---	DOMESTIC HOT WATER PIPING	FCO	⊙	FLOOR CLEANOUT
HWC	---	DOMESTIC HOT WATER CIRC. PIPING	WCO	⊙-H	WALL CLEANOUT
C-SW	---	SOFTENED DOMESTIC COLD WATER PIPING	COT	⊙-H	CLEANOUT TEE
H-SW	---	SOFTENED DOMESTIC HOT WATER PIPING	LCO	⊙-H	LINE CLEANOUT
140° HW	---	DOMESTIC HOT WATER PIPING @ TEMPERATURE SHOWN	CC	⊙-H	FIXTURE OR DRAIN P-TRAP
V	---	VENT PIPING	AD	⊙	AREA DRAIN
AV	---	ACID RESISTANT VENT PIPING	FD	⊙	FLOOR DRAIN (ROUND GRATE)
W	---	WASTE PIPING (ABOVE FLOOR IN BUILDING)	FS	⊙	FLOOR SINK (SQUARE GRATE)
W	---	WASTE PIPING (BELOW FLOOR IN BUILDING)	RD / OD	⊙	ROOF DRAIN OR OVERFLOW DRAIN
AW	---	ACID RESISTANT WASTE PIPING (ABOVE FLOOR IN BLDG)	VB	⊙	GAS PRESSURE REDUCING VALVE
AW	---	ACID RESISTANT WASTE PIPING (BELOW FLOOR IN BLDG)	VB	⊙	ATMOSPHERIC VACUUM BREAKER
GD	---	GREASE DRAIN (WASTE LINE TO GREASE INTERCEPTOR)	BFP	⊙	DOUBLE CHECK BACKFLOW PREVENTER
IW	---	INDIRECT WASTE PIPING	SA	⊙	SHOCK ARRESTOR W / ISOLATION VALVE
S	---	SANITARY SEWER PIPING (OUTSIDE BUILDING)	GC	⊙	GAS SHUT OFF VALVE
ST	---	STORM SEWER PIPING (BELOW GRADE OUTSIDE BUILDING)	SD	⊙	STOP AND DRAIN VALVE
SSD	---	SUB-SURFACE DRAIN PIPING	FC	⊙	HWC BALANCING VALVE
SD	---	STORM DRAIN PIPING (ABOVE FLOOR IN BUILDING)	WH	⊙	WALL HYDRANT
SD	---	STORM DRAIN PIPING (BELOW FLOOR IN BUILDING)	HB	⊙	HOSE BIBB
OD	---	OVERFLOW DRAIN PIPING (ABOVE FLOOR IN BUILDING)	YH	⊙	YARD HYDRANT
OD	---	OVERFLOW DRAIN PIPING (BELOW FLOOR IN BUILDING)	MH	⊙	MANHOLE
A	---	COMPRESSED AIR	CI	⊙	CAST IRON
G	---	NATURAL GAS PIPING	VCP	⊙	VITRIFIED CLAY PIPE
			CB	⊙	CATCH BASIN
			VTR	⊙	VENT THRU ROOF
			IE	⊙	INVERT ELEVATION
			PVC	⊙	POLYVINYL CHLORIDE

GENERAL LEGEND (Not all symbols listed below are used on these drawings)					
ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
	VIEW NUMBER			DETAIL SHEETS	
	SHEET VIEW IS DRAWN ON			PLAN SHEETS	
	EQUIPMENT UNIT IDENTIFICATION			XX	CAP END OF PIPE
	EQUIPMENT UNIT NUMBER			XX	PITCH DOWN IN DIRECTION OF ARROW
	DIFFUSER IDENTIFICATION			---	UNION OR FLANGE
	DIFFUSER NECK DIAMETER			---	FLUG VALVE
	DIFFUSER CFM			---	GATE VALVE
(E)	EXISTING			---	VERTICAL PIPE VALVE
(N)	NEW			---	GLOBE VALVE
(R)	RELOCATED			---	BUTTERFLY VALVE
	POINT OF CONNECTION, NEW TO EXISTING			---	BALL VALVE
DIA	DIAMETER			---	CHECK VALVE
NIC	NOT IN CONTRACT			---	SOLENOID VALVE
AFP	ABOVE FINISHED FLOOR			---	BUTTERFLY SOLENOID VALVE
GC	GENERAL CONTRACTOR			---	HOSE END DRAIN VALVE
MC	MECHANICAL CONTRACTOR			---	PRESSURE / TEMPERATURE TAP
EC	ELECTRICAL CONTRACTOR			---	STRAINER
				---	STRAINER W/ BLOWDOWN
				---	FLEXIBLE PIPE CONNECTOR
				---	THERMOMETER
				---	PRESSURE GAUGE
				---	SIGHT GLASS
				---	CEILING ACCESS PANEL
				---	PUMP

FIRE PROTECTION LEGEND (Not all symbols listed below are used on these drawings)					
ABBR.	SYMBOL	DESCRIPTION	ABBR.	SYMBOL	DESCRIPTION
F	---	FIRE SERVICE PIPING		⊙	NEW SPRINKLER HEAD
FS	---	FIRE SPRINKLER PIPING		⊙	EXISTING SPRINKLER HEAD
WSP	---	WET STANDPIPE		⊙	RELOCATED SPRINKLER HEAD
	---	O.S.&Y. VALVE W/ TAMPER SWITCH		⊙	SI sidewall SPRINKLER HEAD
FS	---	FLOW SWITCH		D24	DRY SPRINKLER HEAD (SHAFT)
PV	---	POST INDICATOR VALVE	FHC	---	FIRE HOSE CABINET
FH	---	FIRE HYDRANT	FVC	---	FIRE HOSE CABINET
FDC	---	FIRE DEPARTMENT CONNECTION	AIS	---	AUTOMATIC FIRE SPRINKLER

PLUMBING NOTES:

- CONTRACTOR SHALL NOT SHUT-OFF/PUT OUT OF SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING WITH OWNER.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY WORK AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES FOR RESOLUTIONS.
- THIS CONTRACTOR SHALL COORDINATE LOCATIONS OF PIPING WITH OTHER TRADES AND ADVISE ARCHITECT/ENGINEER OF ANY POSSIBLE CONFLICTS. VERIFY EXACT LOCATIONS, ELEVATIONS AND DIMENSIONS OF STRUCTURAL MEMBERS AND OPENINGS.
- SEE PLUMBING FIXTURE SCHEDULE FOR PIPE SIZING TO INDIVIDUAL PLUMBING FIXTURES.
- REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE ELEVATIONS AND LOCATIONS.
- INVERT ELEVATIONS SHOWN ARE BASED ON A GROUND FLOOR FINISH ELEVATION OF 100'-0".
- SEE ARCHITECTURAL CONSTRUCTION DOCUMENTS FOR DIMENSIONED LOCATION OF PLUMBING FIXTURES AND WALLS.
- PROVIDE CLEANOUTS IN ACCESSIBLE LOCATIONS PER THE PROJECT SPECIFICATIONS AND LOCAL PLUMBING CODES.

FIRE PROTECTION PLAN NOTES:

- FURNISH ALL LABOR, MATERIALS, EQUIPMENT AND SERVICES NECESSARY FOR THE INSTALLATION OF A COMPLETE AND PROPERLY FUNCTIONING FIRE PROTECTION SYSTEM.
- THE FIRE PROTECTION WORK INVOLVES ENGINEERING AND DESIGN BY THE CONTRACTOR TO DETERMINE THE EXTENT OF NEW WORK AND THE MODIFICATION AND EXTENSION OF EXISTING SYSTEMS TO PROVIDE FULL COVERAGE TO THE PROJECT AREA SHOWN ON THESE AND THE ARCHITECTURAL PLANS.
- THE INFORMATION PRESENTED ON THESE DRAWINGS IS DIAGRAMMATIC. IT DOES NOT NECESSARILY REPRESENT ALL ELBOWS, OFFSETS, HANGERS, ETC., REQUIRED FOR A COMPLETE WORKING SYSTEM.
- ALL FIRE PROTECTION SYSTEMS INSTALLED SHALL BE IN ACCORDANCE WITH NFPA-13, 14, 20, ETC. AND LOCAL BUILDING CODES AND ORDINANCES.
- FIRE PROTECTION CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL NEW FIRE PROTECTION EQUIPMENT AND PIPING WITH ALL OTHER TRADES PRIOR TO SUBMITTAL OF SHOP DRAWINGS AND SYSTEM INSTALLATION, SO AS NOT TO INTERFERE WITH THE ROUTING OF NEW DUCTWORK, PLUMBING PIPING, ETC.
- PROVIDE ALL FITTINGS, RISER NIPPLES, ARM-OVERS, HANGERS, ETC. TO MAINTAIN CONFORMANCE WITH APPLICABLE STANDARDS AND TO POSITION THE SPRINKLERS IN THE PROPER LOCATIONS.
- SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS WITH FIRE STOPPING MATERIALS AS REQUIRED.
- FOR REMODEL AREAS NEW SPRINKLERS SHALL MATCH EXISTING SPRINKLERS.
- PROVIDE WORKING DRAWINGS AND HYDRAULICALLY CALCULATE THIS FIRE SPRINKLER SYSTEM PER NFPA-13 WHERE REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- PROVIDE FIELD COORDINATION OF PIPING AND SPRINKLER INSTALLATIONS WITH DUCTWORK, LIGHTS, SMOKE DETECTORS, DIFFUSERS, ETC.

PLUMBING SPECIALTY SCHEDULE					
PLAN CODE	FIXTURE TYPE	LOCATION	MANUFACTURER	MODEL	REMARKS
WCO-1	WALL CLEANOUT	INTERIOR FINISHED AREAS	J.R.SMITH	4422C	
AAV-1	AIR ADMITTANCE VALVE	CAFÉ SINK	STUDOR	MINI-VENT	INSTALL AIR ADMITTANCE VALVE A MINIMUM OF 18" ABOVE FINISHED FLOOR.

ELECTRIC WATER HEATER (POINT OF USE)																		
DESIG.	MFR.	MODEL	SERVICE	LOCATION	EFFICIENCY RATING	ELECTRIC HEAT				EWT (°F)	LWT (°F)	L	W	H	OPER WT (LBS)	REMARKS		
						NUMBER OF ELEMENTS	KW PER ELEMENT	KW TOTAL	TURN-ON GPM									
EWH-1	EEMAX	ED020480T2T	CAFÉ SINK	CABINET UNDER SINK	99%	1	20	20	0.7	2	68	40	108	19	6	13	15	1

PLUMBING FIXTURE SCHEDULE																					
SYMBOL	FIXTURE							TRIM			ELECTRICAL ACCESSORY REQUIREMENTS		LEED				CONNECTIONS				REMARKS
	FIXTURE NAME	FIXTURE DESCRIPTION	MANUFACTURER	MODEL	TYPE	SIZE	MANUFACTURER	MODEL	SUPPLY	LR / BATTERY / HP	GFP	WASTE	VENT	CW	HW						
S-1	1 COMPT. SINK	SINGLE BOWL UNDERMOUNT 18 GAUGE STAINLESS STEEL SINK, ADA COMPLIANT MANUAL OPERATED GOODNECK FAUCET WITH VANDEL-RESISTANT 2.2 GPM LAMINAR FLOW OUTLET AND 4" WIDESPREAD WRISTBLADES	ELKAY	ELUH211510	UNDERMOUNT STAINLESS STEEL	23.0" X 18.25" X 10"	ZURN	ZB3184-XL-1CT-4F	RE: SPEC	MANUAL	2.2 GPM	2"	1 1/2"	1/2"	1/2"	PROVIDE WATTS LF1170 WATER TEMPERING VALVE WITH FAUCET. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION AND MOUNTING HEIGHT.					

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PROJECT:

CROSSROADS BUILDING RENOVATION

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

OWNER:

LARAMIE COUNTY COMMUNITY COLLEGE

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

ISSUE:

01.04.2018 CONTRACT DOCUMENTS

DRAWING INFORMATION:

PROJECT NO: 11738.001
DRAWN BY: ELC
CHECKED BY: MEM
APPROVED BY: MEM

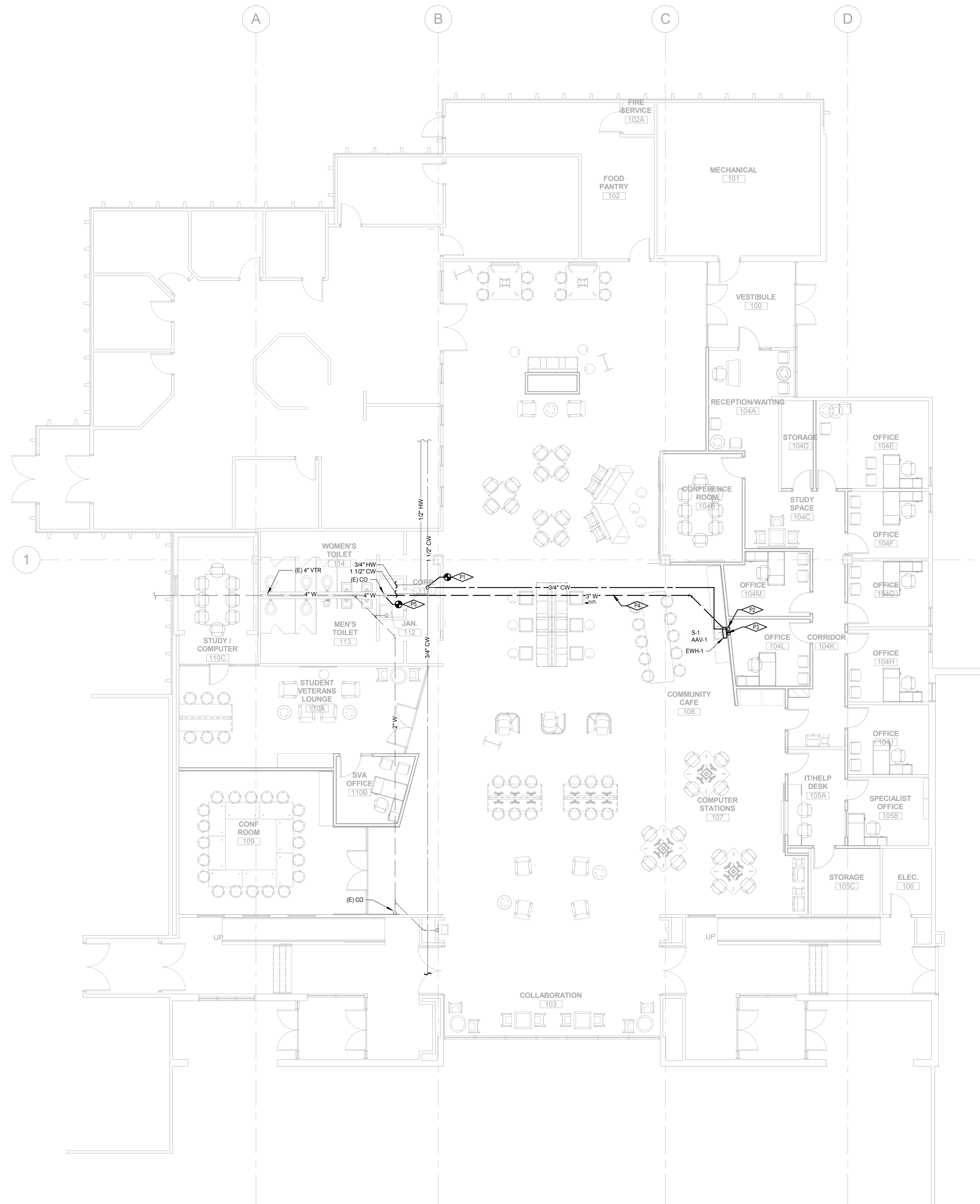
SHEET TITLE:

PLUMBING & FIRE PROTECTION LEGENDS, NOTES & SCHEDULES

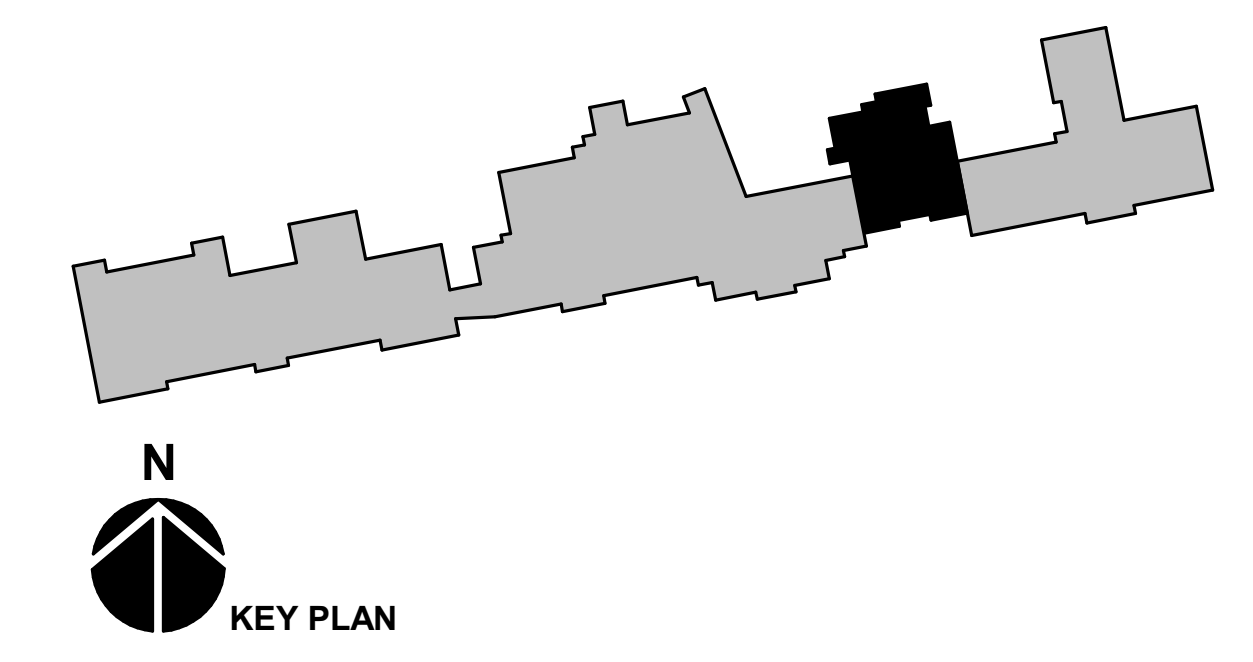
P-001

SHEET OF

KEYNOTES	
P1	CONNECT TO EXISTING 1 1/2" CW MAIN IN THIS APPROXIMATE LOCATION.
P2	PROVIDE 1/2" CW TO EWH-1 LOCATED IN CABINET UNDER SINK. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
P3	PROVIDE 1/2" HW FROM EWH-1 AND 1/2" CW TO SINK. PROVIDE 2" W FROM SINK W/ WCO AND STUDOR AIR ADMITTANCE VALVE. INSTALL STUDOR VALVE PER MANUFACTURER'S INSTRUCTIONS. UPSIZE WASTE PIPE TO 3" BEFORE DROPPING BELOW FLOOR.
P4	CONTRACTOR TO COORDINATE SAW CUTTING AND PATCHING OF FLOOR AS NEEDED TO INSTALL SANITARY PIPING. SLOPE UNDERGROUND PIPING AT 1/8"12".
P5	CONNECT TO EXISTING 4" SANITARY IN THIS APPROXIMATE LOCATION. CONTRACTOR TO VERIFY LOCATION OF SANITARY MAIN AND ENSURE INVERT CAN BE HIT.



↑ N
FIRST FLOOR PLUMBING PLAN
 SCALE: 1/8" = 1'-0"



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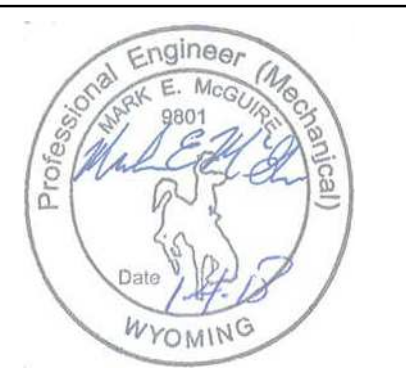
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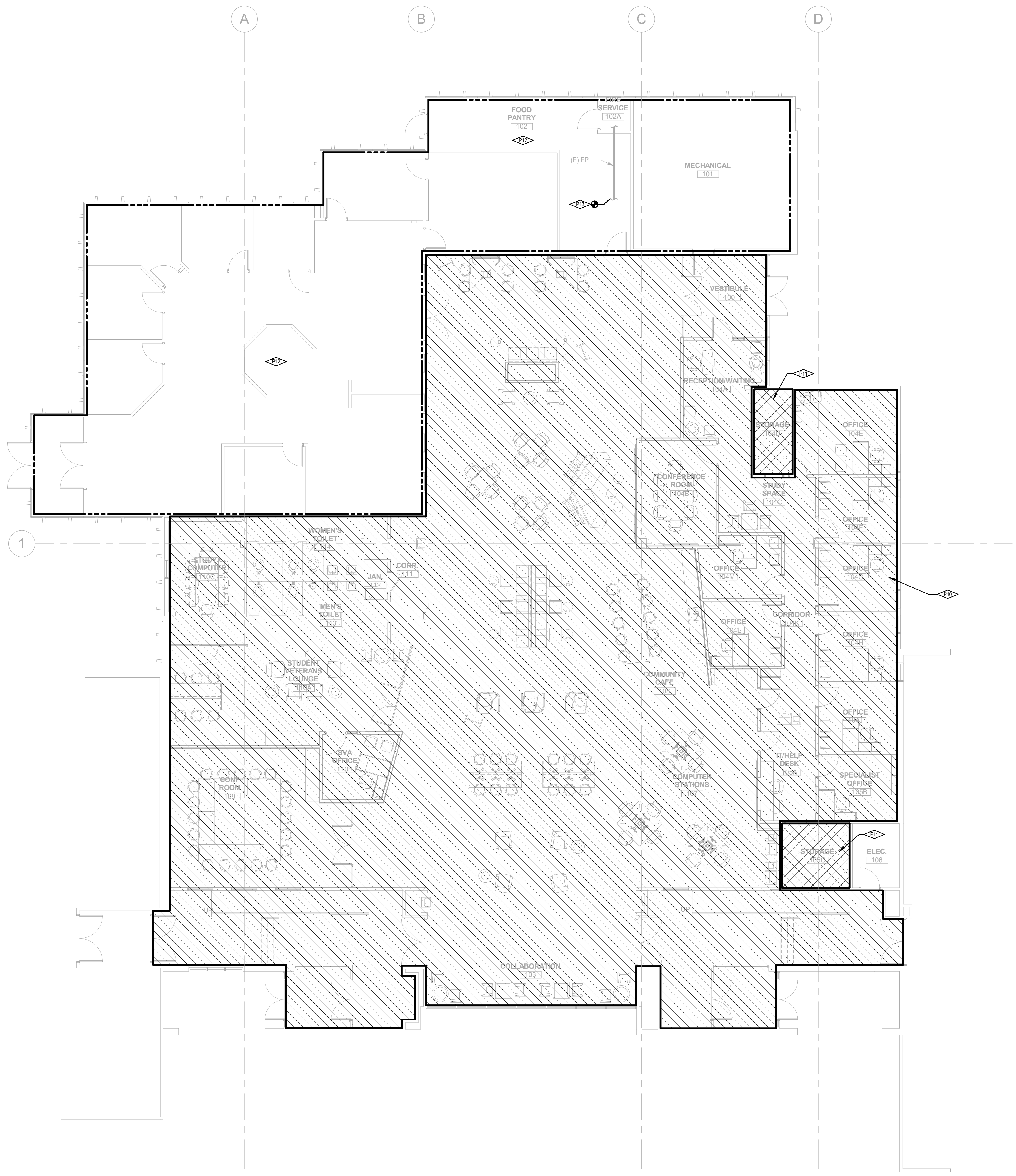
01.04.2018 CONTRACT DOCUMENTS

DRAWING INFORMATION:	
PROJECT NO:	11738.001
DRAWN BY:	ELC
CHECKED BY:	MEM
APPROVED BY:	MEM
SHEET TITLE:	

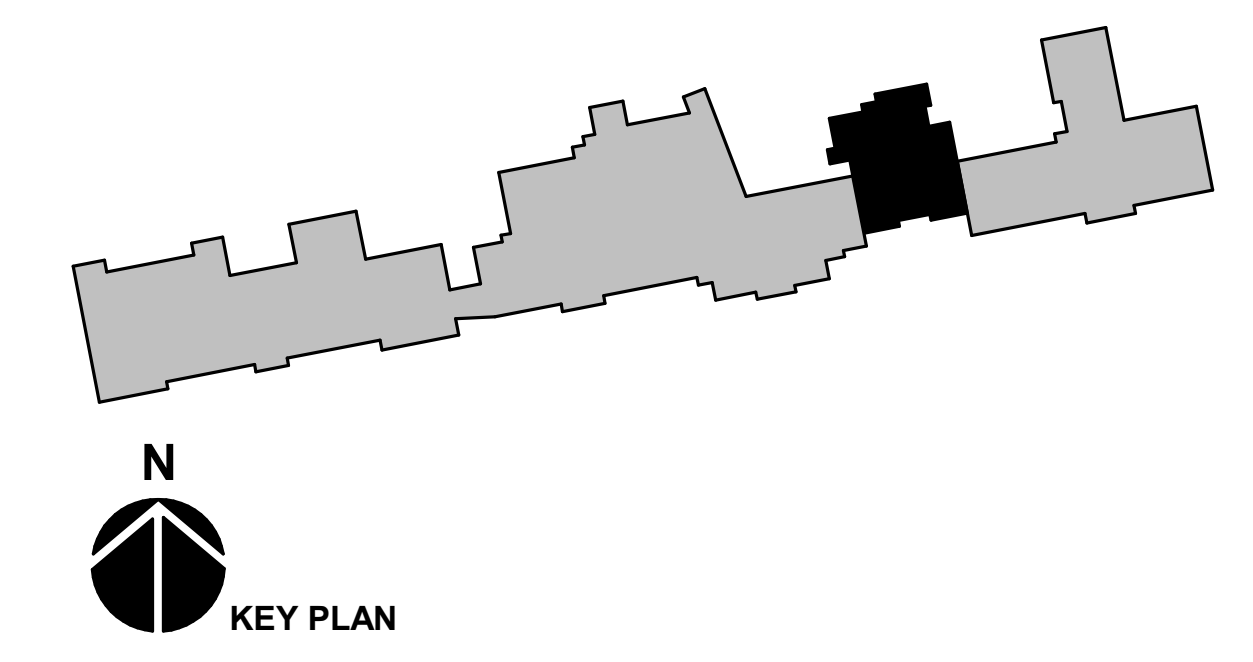
**FIRST FLOOR
 PLUMBING PLAN**

P-111
 SHEET OF

KEYNOTES	
P10	PROTECT THESE AREAS WITH AN AUTOMATIC WET SPRINKLER SYSTEM. DESIGN THE SYSTEM BASED ON LIGHT HAZARD PER THE REQUIREMENTS OUTLINED IN THE SPECIFICATIONS.
P11	PROTECT THESE AREAS WITH AN AUTOMATIC WET SPRINKLER SYSTEM. DESIGN THE SYSTEM BASED ON ORDINARY HAZARD PER THE REQUIREMENTS OUTLINED IN THE SPECIFICATIONS.
P12	AREA IS ALREADY PROTECTED BY A SPRINKLER SYSTEM FROM A PREVIOUS RENOVATION.
P13	CONNECT TO EXISTING FIRE PROTECTION MAIN IN THIS APPROXIMATE LOCATION. FIELD COORDINATE.



FIRE SPRINKLER ZONES
SCALE: 1/8" = 1'-0"



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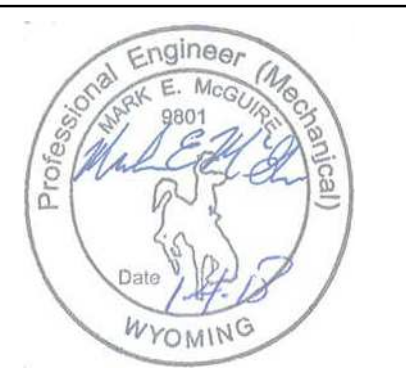
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APPROVED BY:	MEM
SHEET TITLE:	

**FIRE SPRINKLER
ZONES**

FP-111
SHEET OF

POWER LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊕	SINGLE RECEPTACLE	—PM—	PLUG MOLD (MULTI-OUTLET ASSEMBLY)
⊕	DUPLX RECEPTACLE	—WM—	WIREMOLD (SURFACE RACEWAY)
⊕	DOUBLE DUPLX RECEPTACLE	—	CONDUIT CONCEALED
⊕	DUPLX RECEPTACLE, HALF SWITCHED	—	CONDUIT EXPOSED
⊕	DUPLX RECEPTACLE, CEILING MOUNTED	---	CONDUIT, UNDERGROUND OR CONCEALED IN FLOOR AS ALLOWED PER SPECIFICATIONS
⊕	DUPLX RECEPTACLE, FLOOR MOUNTED	→	CONDUIT TURNING DOWN
⊕	DOUBLE DUPLX RECEPTACLE, FLOOR MOUNTED	↻	CONDUIT TURNING UP
⊕	SPECIAL RECEPTACLE	—	CONDUIT CAPPED
⊕	SPECIAL RECEPTACLE, FLOOR MOUNTED	→	BRANCH CIRCUIT HOME RUN, NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS, SUBSCRIPTS INDICATE PANEL & CIRCUITS
⊕	JUNCTION BOX, WALL OR CEILING MOUNTED	—TT—	GROUND BAR
⊕	JUNCTION BOX, FLOOR MOUNTED	—	MAIN SWITCHBOARD/DISTRIBUTION CENTER
⊕	MOTOR	—T—	TRANSFORMER
⊕	DISCONNECT SWITCH (NON-FUSED)	—CT—	CURRENT TRANSFORMER
⊕	DISCONNECT SWITCH (FUSED)	—	THERMOSTAT
⊕	VARIABLE SPEED DRIVE WITH DISCONNECT	—GANN—	GENERATOR ANNUNCIATOR PANEL
⊕	UTILITY METER	—A1—	SHADING INDICATES EMERGENCY SYSTEM TEXT INDICATES PANEL AND CIRCUIT DESIGNATION
⊕	ELECTRICAL PANELBOARD, CONTROL PANEL, OR OTHER CABINET AS NOTED		

LIGHTING LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊕	SHADING INDICATES EM SYSTEM, LOWER CASE SUBSCRIPT INDICATES SWITCHING, UPPER CASE SUBSCRIPT INDICATES LUMINAIRE TYPE (LTY)	⊕	DECORATIVE ADJUSTABLE ACCENT DOWNLIGHT
⊕	SURFACE OR PENDANT MOUNTED LUMINAIRE	⊕	SQUARE DOWNLIGHT
⊕	LENSED TROFFER	⊕	SQUARE WALL WASH DOWNLIGHT
⊕	DIRECT/INDIRECT TROFFER	⊕	SQUARE ADJUSTABLE ACCENT DOWNLIGHT
⊕	PATENT OVERBED LIGHT	⊕	SQUARE WALL WASH DOWNLIGHT
⊕	DIRECT/INDIRECT DISTRIBUTION, SUSPENDED LINEAR PENDANT	⊕	SQUARE ADJUSTABLE ACCENT DOWNLIGHT
⊕	INDIRECT DISTRIBUTION, SUSPENDED LINEAR PENDANT	⊕	DECORATIVE PENDANT
⊕	DIRECT DISTRIBUTION, SUSPENDED LINEAR PENDANT	⊕	PENDANT
⊕	DIRECT/INDIRECT DISTRIBUTION, WALL MOUNT LINEAR	⊕	RECESS MOUNTED WALL LUMINAIRE
⊕	INDIRECT DISTRIBUTION, WALL MOUNT LINEAR	⊕	WALL PACK OR EXTERIOR NON-DECORATIVE WALL SIGNAGE
⊕	DIRECT DISTRIBUTION, WALL MOUNT LINEAR	⊕	DECORATIVE SCIENCE
⊕	DECORATIVE LINEAR WALLMOUNT	⊕	DECORATIVE POLE
⊕	STRIP LINEAR WALLMOUNT	⊕	POLE
⊕	SURFACE OR PENDANT MOUNTED STRIP OR INDUSTRIAL LUMINAIRE	⊕	BOLLARD
⊕	THEATRICAL PIPE OR TRACK LIGHTING	⊕	PORCELAIN KEYLESS LAMPHOLDER, BRYANT #2228 W/ 100W A19 1/2" LAMP, 120V INDICATES PUSHDOWN
⊕	TRACK HEAD	⊕	EMERGENCY LIGHTING UNIT
⊕	SURFACE DOWNLIGHT	⊕	EXTERIOR STAKE MOUNTED
⊕	DOWNLIGHT	⊕	DOCK LIGHT
⊕	WALL WASH DOWNLIGHT	⊕	BARNDROOR SAFE LIGHT (TWO COMPARTMENT SHOWN)
⊕	ADJUSTABLE ACCENT DOWNLIGHT	⊕	UNDERCABINET LIGHT
⊕	DECORATIVE DOWNLIGHT	⊕	EXIT LIGHT, ARROWS AS INDICATED, FACES INDICATED BY SHADING
⊕	DECORATIVE WALL WASH DOWNLIGHT		

CONTROLS LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
S ₁	SINGLE POLE SWITCH (SUBSCRIPT DENOTES SWITCHING)	S _{VS}	VARIABLE SPEEDSPEED CONTROLLER SWITCH
S ₂	TWO POLE SWITCH	S _{EP}	EXPLOSION PROOF SWITCH
S ₃	THREE-WAY SWITCH	S _{TO}	THERMAL OVERLOAD SWITCH
S ₄	FOUR-WAY SWITCH	S _{MC}	MOMENTARY CONTACT SWITCH
S ₅	KEY OPERATED SWITCH	S _{MC}	COMBINATION CONTACT AND DUPLX RECEPTACLE
S ₆	MANUAL SWITCH, HORSEPOWER RATE	S _{PC}	PHOTOCELL
S ₇	DIMMER SWITCH	S _P	PUSH BUTTON
S ₈	SWITCH WITH PILOT LIGHT	S _{TC}	TIME CLOCK
S ₉	PILOT LIGHT IS ON WHEN SWITCH IS ON	S _{OC}	OCCUPANCY SENSOR - WALL MOUNTED
S ₁₀	SWITCH WITH PILOT LIGHT LOCAL OR CONTINUOUSLY LIGHTED HANDLE	S _{US}	ULTRASONIC, DT-SIGNAL TECHNOLOGY
S ₁₁	LOW VOLTAGE SWITCH		

REFERENCE SYMBOLS LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
⊕	KEY NOTE REFERENCE	⊕	KITCHEN/OWNER/MEDICAL EQUIPMENT REFERENCE
⊕	TYPICAL CIRCUIT NUMBER	⊕	EXISTING TO REMAIN
⊕	TYPICAL LUMINAIRE TYPE	⊕	EXISTING TO BE REMOVED
⊕	TYPICAL ROOM REFERENCE (TOP = RM #, BOTTOM = FLR)	⊕	EXISTING TO BE RELOCATED
⊕	MECHANICAL EQUIPMENT REFERENCE	⊕	EXISTING TO REMAIN - REPLACE DEVICE
⊕	LIGHTING CONTROL, EQUIPMENT REFERENCE	⊕	EXISTING TO BE REMOVED AND REPLACED

ABBREVIATIONS LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	AMPERES	MCP	MOTOR CIRCUIT PROTECTOR
AC	ABOVE COUNTER, MOUNT HORIZONTALLY TO CENTERLINE OF DEVICE, 1/2" ABOVE COUNTER OR BACK SPLASH	MEC	SEE MECHANICAL EQUIPMENT SCHEDULE
AF	ABOVE FINISHED FLOOR	MIN	MINIMUM
AFG	ABOVE FINISHED GRADE	MLO	MAIN LUGS ONLY
ANN	ANNUNCIATOR	MIS	MANUAL TRANSFER SWITCH
ARF	ABOVE RAISED FLOOR	NC	NORMALLY CLOSED
ASD	AIR SAMPLING SMOKE DETECTION	NIC	NOT IN CONTRACT
ATS	AUTOMATIC TRANSFER SWITCH	NL	NIGHT LIGHT
BFG	BELOW FINISHED GRADE	NO	NORMALLY OPEN
C	CONDUIT	NTS	NOT TO SCALE
CATV	CABLE TELEVISION	OC	ON CENTER
CB	CIRCUIT BREAKER	OFC	OWNER FURNISHED, CONTRACTOR INSTALLED
CCTV	CLOSED CIRCUIT TELEVISION	OFOI	OWNER FURNISHED, OWNER INSTALLED
(E)	EXISTING	OSWF	ON SITE WORK FORCE
EM	EMERGENCY	PB	PULL BOX
EMDC	EMERGENCY MAIN DISTRIBUTION CENTER	SB	STAND-BY
EP	EXPLOSION PROOF	SDC	SUB-DISTRIBUTION CENTER
EPO	EMERGENCY POWER OFF	SPO	SURGE PROTECTIVE DEVICE
EVO	EMERGENCY VENTILATION ON/OFF	TP	TAMPER PROOF
EW	ELECTRIC WATER COOLER	TYP	TYPICAL
FA	FIRE ALARM	UF	UNDER FLOOR
G	GROUND	UG	UNDER GROUND
GCP	GENERATOR CONTROL PANEL	UN	UNLESS OTHERWISE NOTED
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
HOA	HAND OFF AUTOMATIC	V	VOLTS
IG	ISOLATED GROUND	VFD	VARIABLE FREQUENCY DRIVE
MAX	MAXIMUM	W	WITH
MCB	MAIN CIRCUIT BREAKER	WO	WITHOUT
MCC	MOTOR CONTROL CENTER	WP	WEATHER PROOF
MDC	MAIN DISTRIBUTION CENTER	XFR	TRANSFORMER

FIRE ALARM SYSTEM LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[FACP]	FIRE ALARM CONTROL PANEL	⊕	MANUAL PULL STATION
[FAPS]	FIRE ALARM (NAC) POWER SUPPLY	⊕	ADDRESSABLE INPUT MODULE
[FAS]	FIRE ALARM SYSTEM ANNUNCIATOR PANEL (GRAPHICLED)	⊕	ADDRESSABLE OUTPUT MODULE
[FAA]	REMOTE ANNUNCIATOR PANEL	⊕	AUDIO/ALARM DEVICE (HORN/HORN/STROBE COMBINATION)
[GZM]	GRAPHIC ZONE MAP	⊕	AUDIO/ALARM DEVICE (HORN, S-SPEAKER, C-CHIME)
[RACP]	RESCUE ASSISTANCE SYSTEM HEAD END UNIT	⊕	FIRE ALARM STROBE (cph CANDELA RATING 15, 30, 75, 150)
[FSC]	FIRE FIGHTER SMOKE CONTROL PANEL	⊕	EMERGENCY TELEPHONE STATION (J-JACK, H-HANDSET)
[FAD]	FIRE ALARM DIRECTORY ANNUNCIATOR	⊕	RESCUE ASSISTANCE TELEPHONE STATION
⊕	SMOKE DETECTOR (P-PHOTOELECTRIC, SB-WITH SOUNDER BASE, BR-BEAM RECEIVER, BT-BEAM TRANSMITTER)	⊕	MAGNETIC DOOR HOLD
⊕	THERMAL DETECTOR (F-FIXED TEMPERATURE, R-RATE OF RISE (TEMP. RATING))	⊕	TAMPER SWITCH
⊕	FLAME DETECTOR (V-VISUAL TRAVEL, I-IR-INFRARED)	⊕	FLOW DETECTOR SWITCH
⊕	DUCT SMOKE DETECTOR S-SUPPLY, R-RETURN	⊕	PRESSURE SWITCH
⊕	DUCT DETECTOR REMOTE INDICATOR ALARM AND TEST	⊕	FIRE/SMOKE DAMPER
X	REMOTE INDICATOR LIGHT	⊕	CARBON MONOXIDE ALARM/DETECTOR

ONE-LINE DIAGRAM LEGEND (Not all symbols listed below are used on these drawings)			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—	DISCONNECT SWITCH	A	PANELBOARD "A"
—	DISCONNECT SWITCH, FUSED	EM	EM-ENERGY METER, PM-POWER METER, CM-CIRCUIT MONITOR
—	CIRCUIT BREAKER	—	VOLTMETER TEST SWITCH
—	FUSE	—	AMMETER TEST SWITCH
—	GROUND	⊕	VOLTMETER
—	STEP DOWN TRANSFORMER, # INDICATES KVA	⊕	AMMETER
—	K RATED STEP DOWN TRANSFORMER	⊕	SEE FEEDER/MEC/TRANSFORMER SCHEDULES FOR FEEDER SIZE
—	# INDICATES KVA, # INDICATES K RATING	⊕	ENGINE GENERATOR
—	CURRENT TRANSFORMER	—	CONTACTOR/RELAY/CAPACITOR (AS NOTED)
—	POTENTIAL TRANSFORMER	—	TRANSFER SWITCH - ATS-AUTOMATIC, MTS-MANUAL
—	SERVICE ENTRANCE TRANSFORMER	—	GROUND FAULT INTERRUPTER
—	METER	—	SURGE PROTECTIVE DEVICE
—	EQUIPMENT ENCLOSURE	—	SHUNT TRIP
—	SERVICE WEATHERHEAD	—	TERMINATIONS LB-LOAD BREAK, NLB-HO LOAD BREAK
—	SHORT CIRCUIT CURRENT AVAILABLE	—	DRAW-OUT DEVICE
—	KIRK KEY INTERLOCK, SUBSCRIPT INDICATES INTERLOCKED GROUP	—	PLUG-IN DEVICE
—	ELECTRICAL INTERLOCK, SUBSCRIPT INDICATES INTERLOCKED GROUP	—	ELECTRICALLY OPERATED
—	MECHANICAL INTERLOCK		

GENERAL NOTES:

- FOR REMODELING, WORK INCLUDED IS DENOTED IN BOLD. EXISTING CONDITIONS TO REMAIN ARE DENOTED LIGHTLY.
- PROTECT STRUCTURE AND OWNER EQUIPMENT FROM DAMAGE. IMMEDIATELY REPLACE OR REPAIR, TO ORIGINAL CONDITION, DAMAGE CAUSED BY THE CONTRACTOR WHETHER EQUIPMENT APPEARS TO BE CURRENTLY IN USE OR NOT, UNLESS WRITTEN AUTHORIZATION FROM THE OWNER INDICATED OTHERWISE. PREPARE LISTING OF ALL EXISTING DAMAGED ITEMS AND SUBMIT TO OWNER PRIOR TO BEGINNING WORK.
- INSTALL CONDUIT CONCEALED IN FINISHED AREAS UNLESS OTHERWISE NOTED. PAINT EXPOSED CONDUIT TO MATCH EXISTING FINISHES WITHIN THE SURROUNDING AREA.
- ALL PENETRATIONS FOR RACEWAY AND CABLE THAT ARE BY THE CONTRACTOR, WHICH PENETRATE FLOORS, FIRE AND/OR SMOKE BARRIERS AND SEPARATIONS SHALL BE SEALED WITH A SYSTEM SPECIFICALLY U.L. APPROVED FOR THE APPLICATION. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE ASSEMBLIES AND RATINGS.
- COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN AND ORDERING MATERIALS OR EQUIPMENT.
- COORDINATE OUTAGES WITH OWNER TWO WEEKS IN ADVANCE. PROVIDE WRITTEN METHOD OF PROCEDURES WHEN OUTAGE AFFECTS LIFE SAFETY OR BUILDING SECURITY SYSTEMS.
- EXISTING INFORMATION SHOWN ON THE DRAWINGS HAS BEEN TAKEN FROM OWNER FURNISHED DRAWINGS AND/OR LIMITED FIELD OBSERVATIONS. CATOR, RUMA & ASSOCIATES IS NOT RESPONSIBLE FOR THE ACCURACY OF ANY INFORMATION OR THE ADEQUACY, SAFETY AND CONFORMANCE TO CURRENT PREVAILING CODES OF ANY WORK SHOWN AS EXISTING ON THESE DRAWINGS.
- PROVIDE SEPARATE INSULATED GROUNDING CONDUCTOR IN ALL FEEDER, HOMERUN AND BRANCH CIRCUITS.

LIGHTING PLAN NOTES:

- REFER TO ARCHITECTURAL ELEVATIONS AND REFLECTED CEILING PLANS FOR EXACT MOUNTING LOCATIONS OF DEVICES AND LUMINAIRES.
- COORDINATE LUMINAIRE LOCATIONS WITH MECHANICAL PIPING, DUCTWORK, ETC., TO AVOID CONFLICTS. SEE SPECIFICATIONS FOR COORDINATION REQUIREMENTS.
- PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V AND 277V CIRCUIT.
- CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX (6) CURRENT CARRYING CONDUCTORS, INCLUDING NEUTRALS, UNLESS OTHERWISE INDICATED. WHERE CIRCUITS ARE COMBINED WITHIN A SINGLE CONDUIT, PROVIDE STRIPING FOR FULL LENGTH OF NEUTRAL CONDUCTOR. INSULATION TO MATCH THE COLOR CODE OF THE ASSOCIATED PHASE CONDUCTOR. SEE SPECIFICATION FOR COLOR CODES.
- FIELD COORDINATE EXACT LOCATION OF CEILING MOUNTED OCCUPANCY SENSORS PER MANUFACTURER'S INSTRUCTIONS. OCCUPANCY/VACANCY SENSING DEVICES ARE SHOWN FOR GENERAL DESIGN INTENT ONLY. CONTRACTOR SHALL PROVIDE THE TYPE AND QUANTITY OF OCCUPANCY/VACANCY SENSING DEVICES AS NECESSARY FOR PROPER COVERAGE AND CONTROL OF LUMINAIRES WHERE INDICATED ON THE LIGHTING PLANS. FIELD ADJUSTMENT TO DEVICE LOCATIONS SHALL BE MADE AS REQUIRED TO CAPTURE ALL OCCUPANTS, WHETHER SITTING AT A DESK OR MOVING AROUND THE SPACE. ADDITIONAL DEVICES SHALL BE PROVIDED AND FIELD ADJUSTMENTS SHALL BE MADE AS NECESSARY, AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- ALL EXIT SIGNS AND EMERGENCY LIGHTING TO BE CONNECTED TO PANEL EM IN ADJACENT STUDENT SERVICES BUILDING TO THE EAST. CIRCUIT SHOWN ON LIGHTING PLANS MUST BE FIELD VERIFIED BY CONTRACTOR.

POWER PLAN NOTES:

- MAKE ALL FINAL ELECTRICAL CONNECTIONS TO EQUIPMENT REQUIRING ELECTRICAL CONNECTION. THIS SHALL INCLUDE BUT NOT BE LIMITED TO ALL MECHANICAL AND OTHER EQUIPMENT INCLUDED IN THIS PROJECT.
- COORDINATE EXACT REQUIREMENTS AND LOCATIONS OF MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
- PROVIDE FUSES SIZED PER EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- DISCONNECT SWITCH LOCATIONS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS TO SUIT EQUIPMENT AND SPACE. DISCONNECT SWITCHES SHALL BE WITHIN SIGHT OF THE EQUIPMENT THEY SERVE AND MOUNTED AT 6'3" MAXIMUM, TO TOP OF CABINET. MAINTAIN NEC WORK SPACE REQUIREMENTS.
- RECEPTACLES INDICATED TO BE MOUNTED ABOVE COUNTER ARE TO BE MOUNTED HORIZONTALLY 6" ABOVE COUNTER UNLESS OTHERWISE NOTED.
- PROVIDE 4-SQUARE ELECTRICAL BOX, SINGLE GANG MUD RING AND BLANK SINGLE GANG COVER PLATE FOR ALL THERMOSTAT LOCATIONS. ROUTE 1" CONDUIT WITH PULL WIRE TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE INSULATED THROUGH CONNECTOR ON CONDUIT END.
- COORDINATE AND VERIFY EXACT MOUNTING LOCATIONS OF WALL AND FLOOR DEVICES WITH ARCHITECTURAL ELEVATIONS, AND ANY FURNITURE OR SPECIALTY EQUIPMENT SUPPLIER DRAWINGS PRIOR TO ROUGH-IN.
- NO RECEPTACLES SHALL BE MOUNTED BELOW +18" AFF.
- PROVIDE ISOLATED GROUND FOR EACH CIRCUIT TO FURNITURE PARTITION AND POWER POLE LOCATIONS.
- PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR EACH 120V CIRCUIT.
- CIRCUITS MAY BE COMBINED INTO HOMERUNS OF UP TO SIX (6) CURRENT CARRYING CONDUCTORS, INCLUDING NEUTRALS, UNLESS OTHERWISE INDICATED. WHERE CIRCUITS ARE COMBINED WITHIN A SINGLE CONDUIT, PROVIDE STRIPING FOR FULL LENGTH OF NEUTRAL CONDUCTOR. INSULATION TO MATCH THE COLOR CODE OF THE ASSOCIATED PHASE CONDUCTOR. SEE SPECIFICATION FOR COLOR CODES.
- GFCI RECEPTACLES ARE NOT GENERALLY SHOWN ON DRAWINGS. ALL RECEPTACLE OUTLETS LOCATED IN TOILET ROOMS, OUTDOOR LOCATIONS, MECHANICAL ROOMS, WITHIN 6 FEET OF A SINK, OR OTHER WET LOCATIONS SHALL BE PROVIDED WITH GFI DEVICE AT PANEL BREAKER.

FIRE ALARM PLAN NOTES:

- FIRE ALARM EQUIPMENT AND DEVICES SHOWN ON THESE DRAWING INDICATE THE INTENT, PERFORMANCE, AND SCOPE OF THE SYSTEM. THE FULL DESIGN OF THE FIRE ALARM SYSTEM SHALL BE PROVIDED AS A DEFERRED SUBMITTAL BY THIS CONTRACTOR. THE CONTRACTOR SHALL PROVIDE APPROPRIATE SHOP DRAWINGS AND DESIGN SUBMITTALS FOR APPROVAL BY THE LOCAL FIRE DEPARTMENT AND/OR THE AUTHORITY HAVING JURISDICTION. THE ELECTRICAL ENGINEER OF RECORD AT CATOR, RUMA & ASSOCIATES, CO. WILL NOT BE RESPONSIBLE FOR SEALING AND SIGNING THE FIRE ALARM SYSTEM SHOP DRAWING SUBMITTALS PROVIDED BY THE CONTRACTOR. CONTRACTOR SHALL MAKE NECESSARY ARRANGEMENTS IN JURISDICTIONS WHERE THIS IS REQUIRED AND INCLUDE COSTS IN BID.
- LOCATE SMOKE DETECTORS PER NFPA 72 AND MANUFACTURERS REQUIREMENTS. THE LOCATIONS OF SMOKE DETECTORS ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. DETECTORS SHALL NOT BE PLACED WITHIN 3'-0" OF ANY CEILING MOUNTED HVAC SUPPLY AIR DEVICE.
- NEW FIRE ALARM DEVICES SHALL MATCH EXISTING, UNLESS NOTED OTHERWISE. PROVIDE RE-PROGRAMMING OF SYSTEM AS REQUIRED TO ACCOMMODATE NEW DEVICES. REVISE EXISTING ANNUNCIATOR(S) AND GRAPHIC ZONE MAP(S) TO REFLECT PROJECT FIRE ALARM AND ARCHITECTURAL MODIFICATIONS. UPDATE GRAPHIC ZONE MAPS AS REQUIRED. SUBMIT TO ENGINEER AND BUILDING/FIRE DEPARTMENTS FOR REVIEW PRIOR TO INSTALLATION.

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PROJECT:

CROSSROADS BUILDING RENOVATION

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

OWNER:

LARAMIE COUNTY COMMUNITY COLLEGE

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

ISSUE:

01.04.2018 CONTRACT DOCUMENTS

DRAWING INFORMATION:	
PROJECT NO:	11738.001
DRAWN BY:	BJK
CHECKED BY:	CMJ
APPROVED BY:	CMJ
SHEET TITLE:	

ELECTRICAL LEGENDS & NOTES

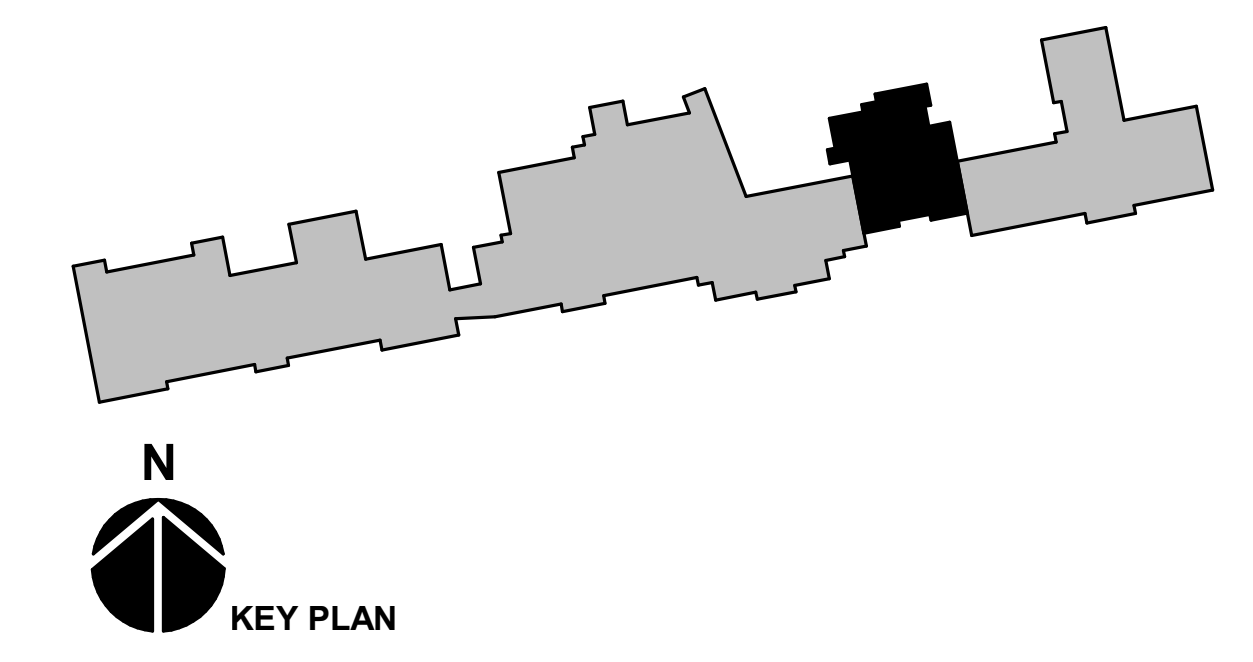
E-001

SHEET OF

KEYNOTES
LD1 AREA OUTSIDE OF PROJECT SCOPE.



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



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PROJECT NO: 11738.001
DRAWN BY: BJK
CHECKED BY: CMI
APPROVED BY: CMI

SHEET TITLE:
**FIRST FLOOR
LIGHTING
DEMOLITION PLAN**

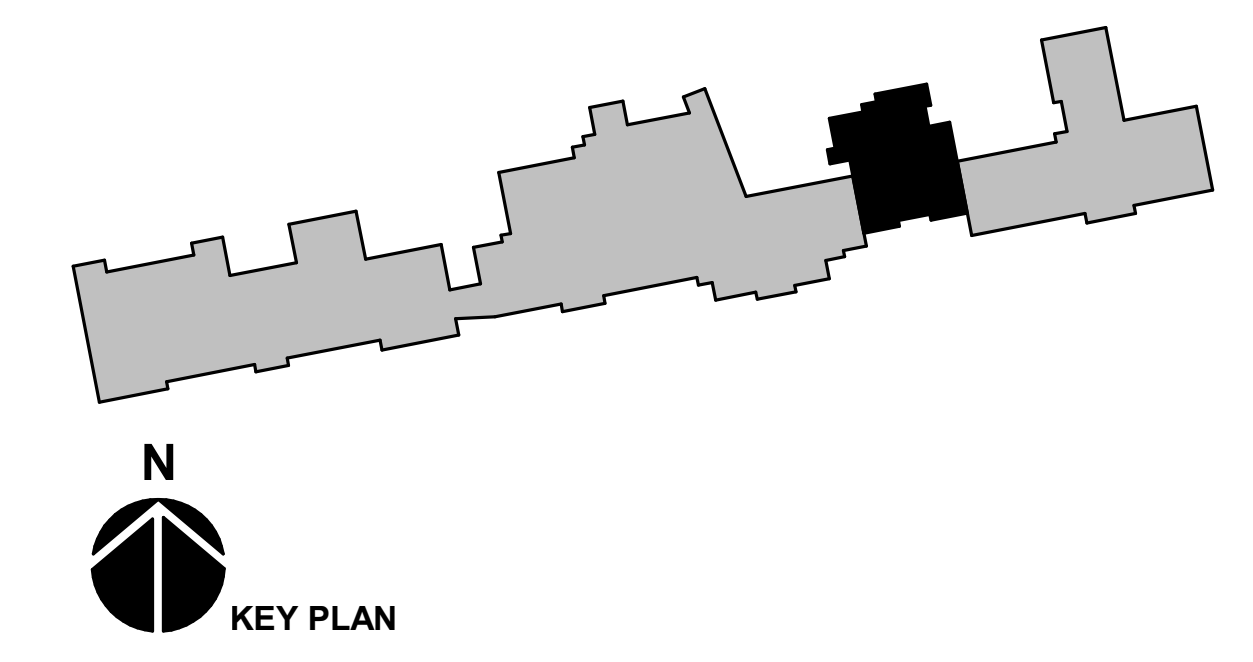
ED-111
SHEET OF

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KEYNOTES	
ED1	PANEL LA TO BE REPLACED. PULL BACK CIRCUITS AS NEEDED TO REMOVE PANEL AND INSTALL NEW EQUIPMENT.
ED2	NO POWER SCOPE IN AREA NOTED.
ED3	REMOVE ALL EXISTING FIRE ALARM DEVICES IN SCOPE AREA. RACEWAY AND CABLE MAY BE REUSED AS AVAILABLE.
ED4	TRANSFORMER TO BE REPLACED.



↑ FIRST FLOOR POWER/FA DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



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APPROVED BY:	CMJ

SHEET TITLE:
**FIRST FLOOR POWER
DEMOLITION PLAN**

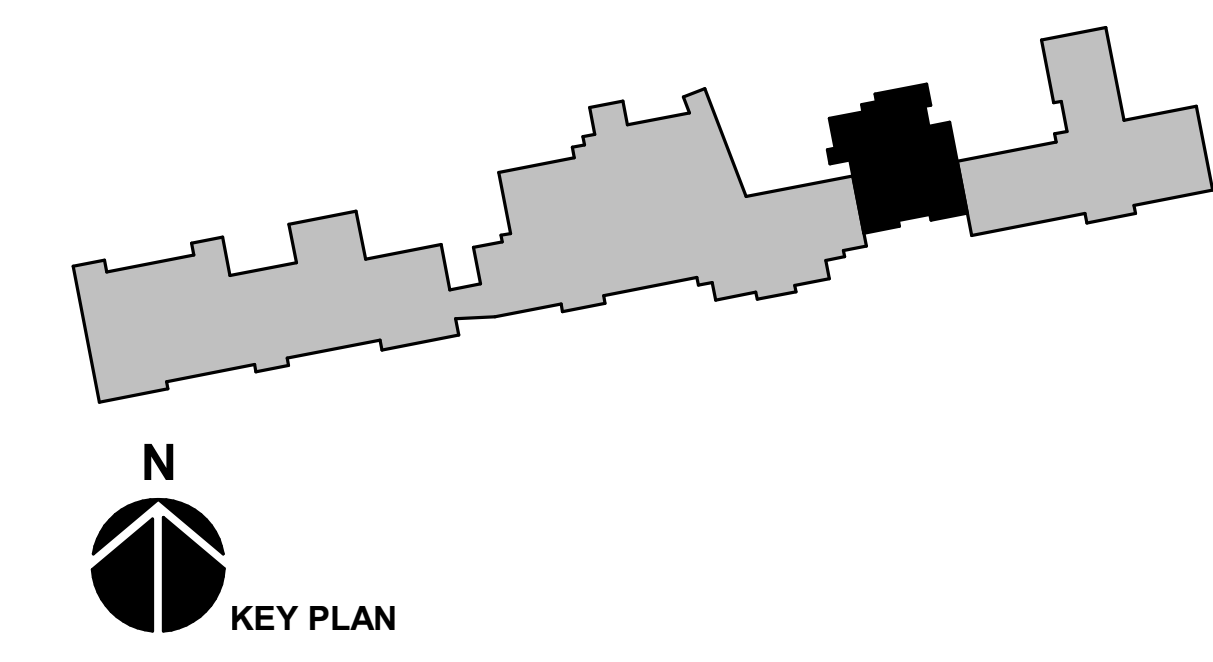
ED-121
SHEET OF

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KEYNOTES	
L1	OCCUPANCY SENSORS AND TIMELOCK SWITCHING SHALL BE PRICED AS ADD ALTERNATE #3.
L2	IF ADD ALTERNATE #3 IS NOT SELECTED, CONTRACTOR SHALL PROVIDE LOCAL DIMMERS/SWITCHES AS SHOWN WITH A MINIMUM OF ONE CONTROL LOCATION PER SPACE.
L3	FIXTURE TO REMAIN ON AS A SECURITY LIGHT. BYPASS LOCAL SWITCHES AND CONTACTORS.
L4	AREA OUTSIDE OF PROJECT SCOPE.
L5	SPECIALTY LIGHTING. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS. PROVIDE A SEPARATE SWITCH AT A LOCATION DICTATED BY OWNER/ARCHITECT.
L6	FIXTURE TO BE INSTALLED ABOVE CEILING. ADJUST PENDANT LENGTH SO FIXTURE IS JUST ABOVE OPEN GRATING.



↑ FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"



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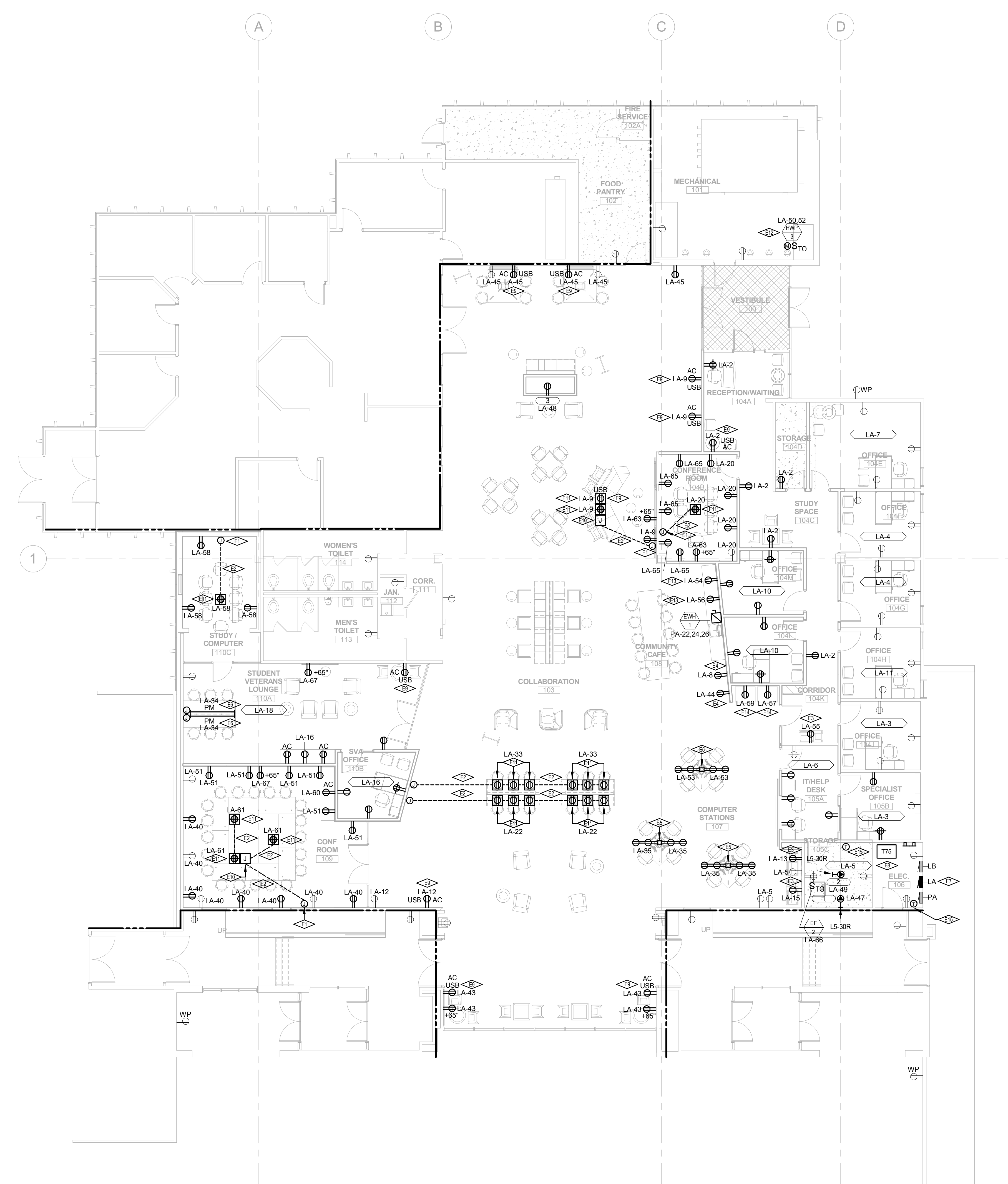
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**FIRST FLOOR
LIGHTING PLAN**

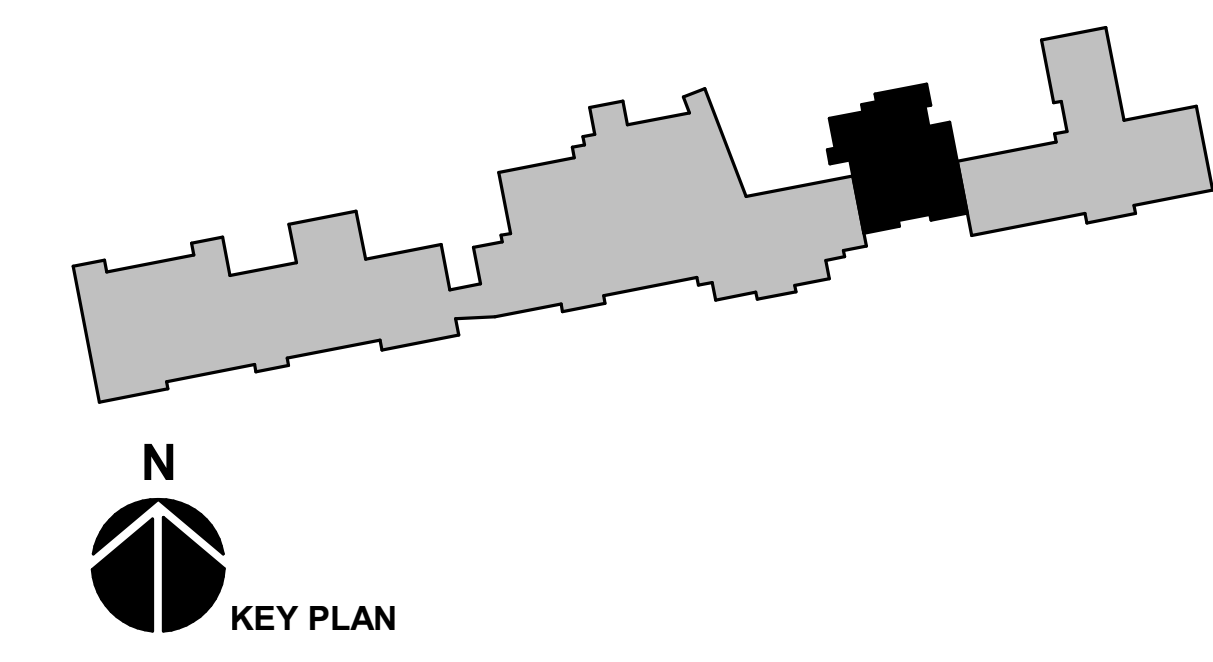
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SHEET OF

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1/3/2018 11:52:55 AM

KEYNOTES	
E1	RE-USE EXISTING RECEPTACLE BOX LOCATION TO TRANSITION TO NEW SURFACE RACEWAY.
E2	LOW PROFILE SURFACE RACEWAY TO BE MOUNTED OVER FLOOR COVERING. SECURE PER MANUFACTURERS REQUIREMENTS. PROVIDE CONCEALED TRANSITIONS AT WALL. LEGRAND OFR SERIES OR EQUAL.
E3	DEDICATED RECEPTACLE FOR PRINTER. COORDINATE ROUGH IN WITH CASEWORK AND EQUIPMENT CONNECTION POINT.
E4	DEDICATED RECEPTACLE FOR FUTURE USE.
E5	TIMBER POLE WITH WIRING CHANNEL. REFER TO ARCHITECTURAL PLANS FOR FURTHER DETAILS.
E6	HORIZONTAL PLUGMOLD INSTALLED ALONG CASEWORK. PROVIDE DUPLEX RECEPTACLE AT EACH COMPUTER STATION. RACEWAY SHALL HAVE SEPARATE CHANNEL FOR DATA CABLING.
E7	RECONNECT EXISTING CIRCUITS TO NEW PANELBOARD. REFER TO PANEL SCHEDULE FOR ADDITIONAL INFORMATION.
E8	PROVIDE NEW K-RATED TRANSFORMER. INSTALL ON DOUBLE DEFLECTION NEOPRENE ISOLATORS.
E9	PROVIDE DEVICE WITH INTEGRAL USB CHARGER. LEGRAND #TM8 OR EQUAL.
E10	PROVIDE FLOOR BOX FOR AV CONNECTIONS. REFER TO TECHNOLOGY PLANS FOR DETAILS.
E11	DOUBLE SIDED FLOOR BOX TO HAVE PLATES FOR DUPLEX RECEPTACLE ON FRONT AND SINGLE DATA JACK ON BACK.
E12	PRICE EQUIPMENT AND CONNECTIONS WITH ADD ALTERNATE #1.
E13	DEDICATED RECEPTACLE FOR MICROWAVE. COORDINATE ROUGH IN WITH CASEWORK AND EQUIPMENT CONNECTION POINT.
E14	DEDICATED RECEPTACLE FOR VENDING MACHINE. COORDINATE ROUGH IN WITH CASEWORK AND EQUIPMENT CONNECTION POINT.
E15	LINE VOLTAGE THERMOSTAT PROVIDED WITH EF-2. CONNECT IN PARALLEL WITH OTHER STAT NOTED TO ENERGIZE FAN WHEN ROOM TEMPERATURE EXCEEDS SET POINT. REFER TO MECHANICAL PLANS FOR FURTHER DETAILS.



FIRST FLOOR POWER PLAN
SCALE: 1/8" = 1'-0"



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PROJECT:

CROSSROADS BUILDING RENOVATION

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OWNER:

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FIRST FLOOR POWER PLAN	

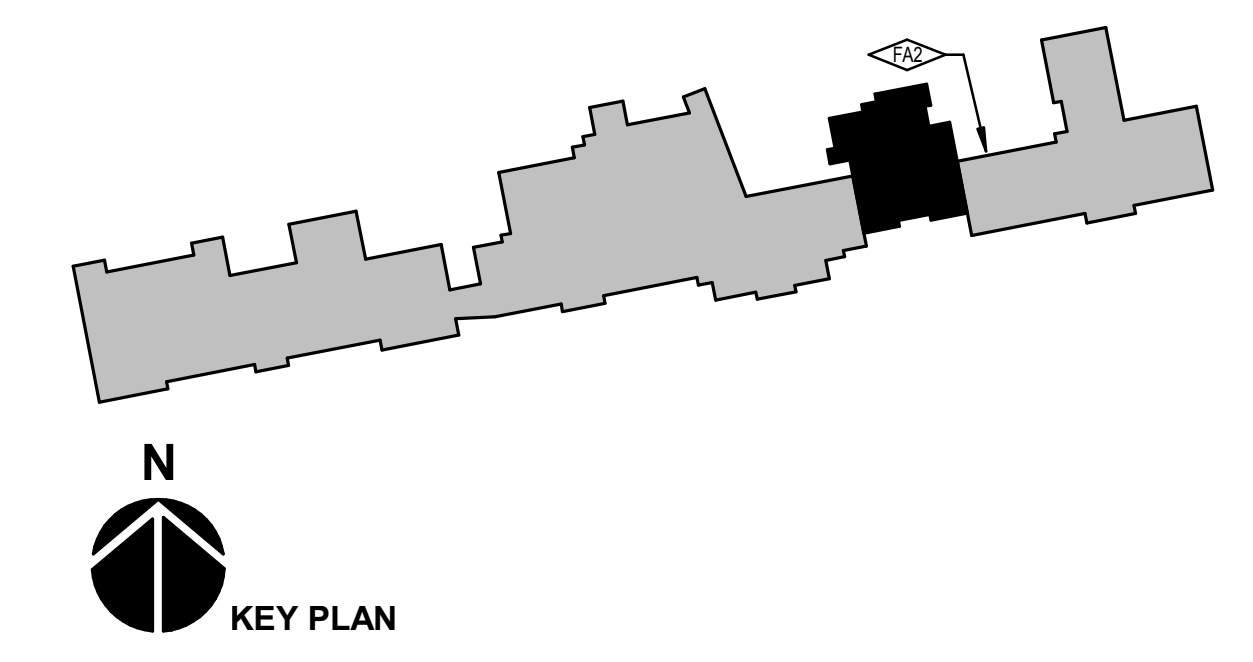
E-121

SHEET OF

KEYNOTES	
FA1	AREA IS UNDERSTOOD TO HAVE ADEQUATE VISUAL AND AUDIBLE COVERAGE AND IS OUTSIDE THE SCOPE OF THIS PROJECT.
FA2	PROVIDE/EXTEND CIRCUITS FROM EXISTING FIRE CONTROL PANEL. FIELD VERIFY DISTANCES AND POSSIBLE ROUTING PRIOR TO SUBMITTING BID.
FA3	EXISTING COMBINATION FIRE/SMOKE DAMPERS TO REMAIN. RECONNECT AND RECERTIFY AS REQUIRED.
FA4	ANTICIPATED LOCATION OF FIRE ALARM CIRCUITS GOING BACK TO FACP. FIELD VERIFY PRIOR TO BID.
FA5	PROVIDE SMOKE DETECTORS AS NEEDED FOR CONTROL OF FIRE SMOKE DAMPERS.



FIRST FLOOR FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"



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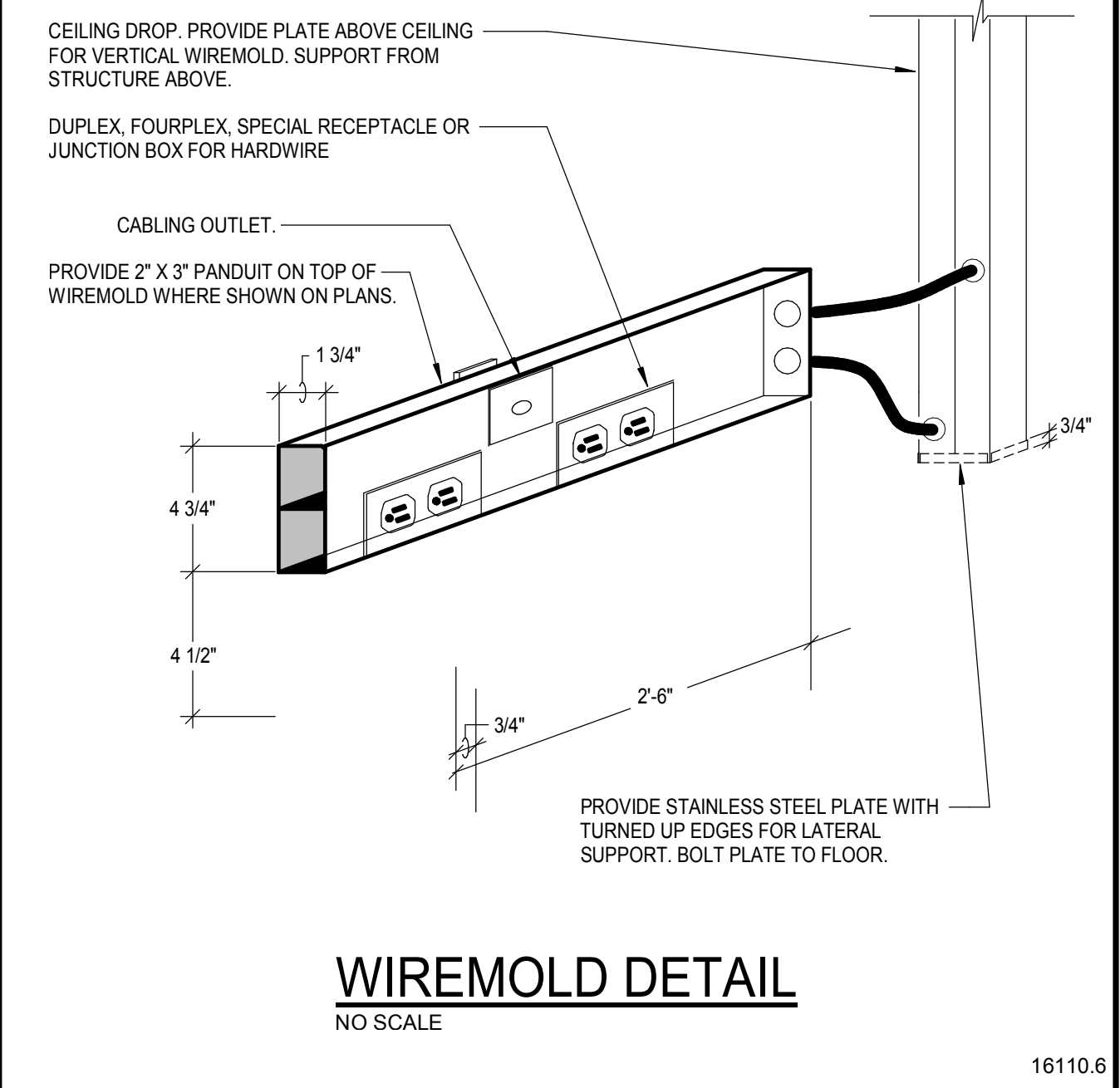
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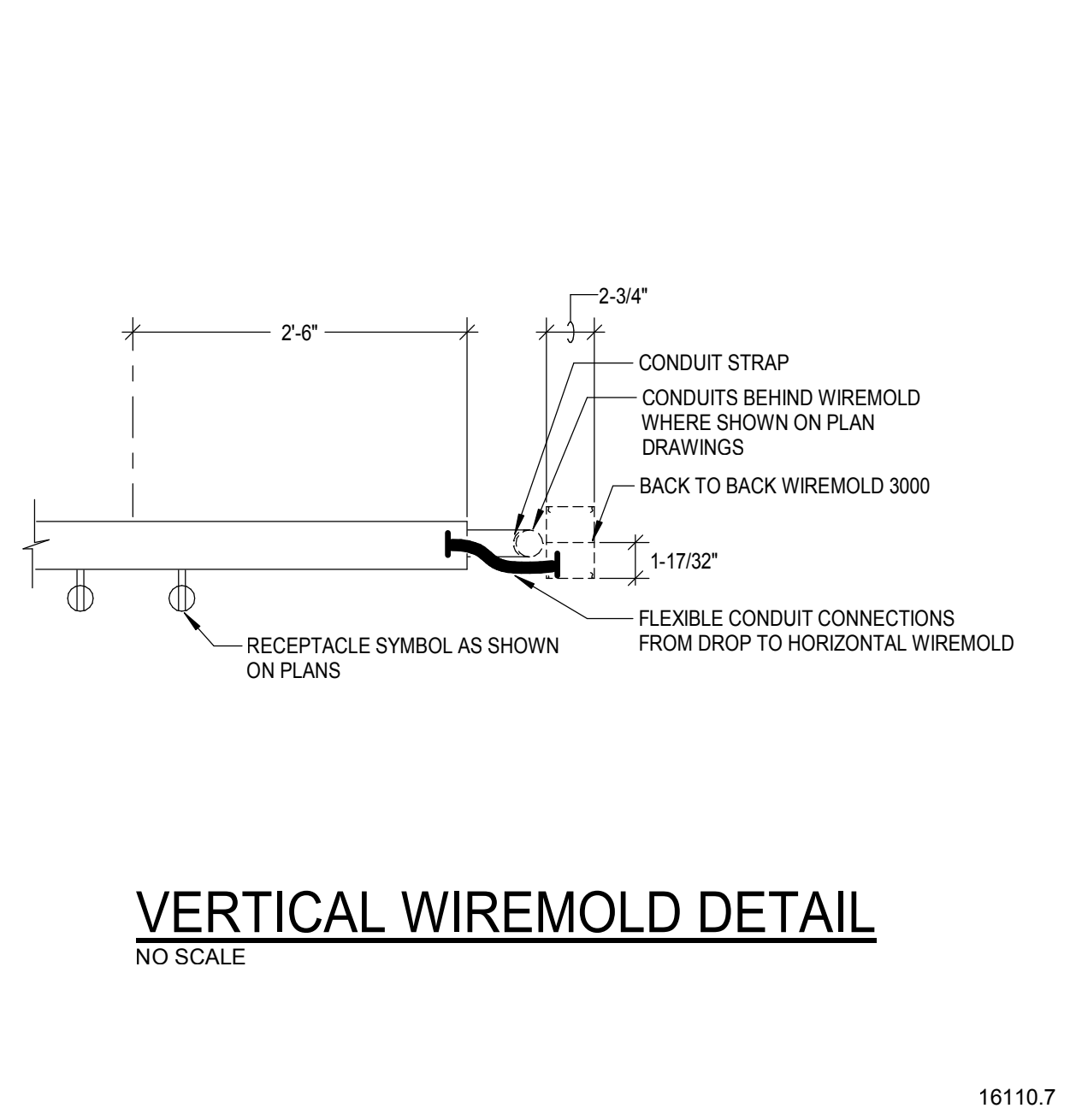
**FIRST FLOOR FIRE
ALARM PLAN**

E-131
SHEET OF



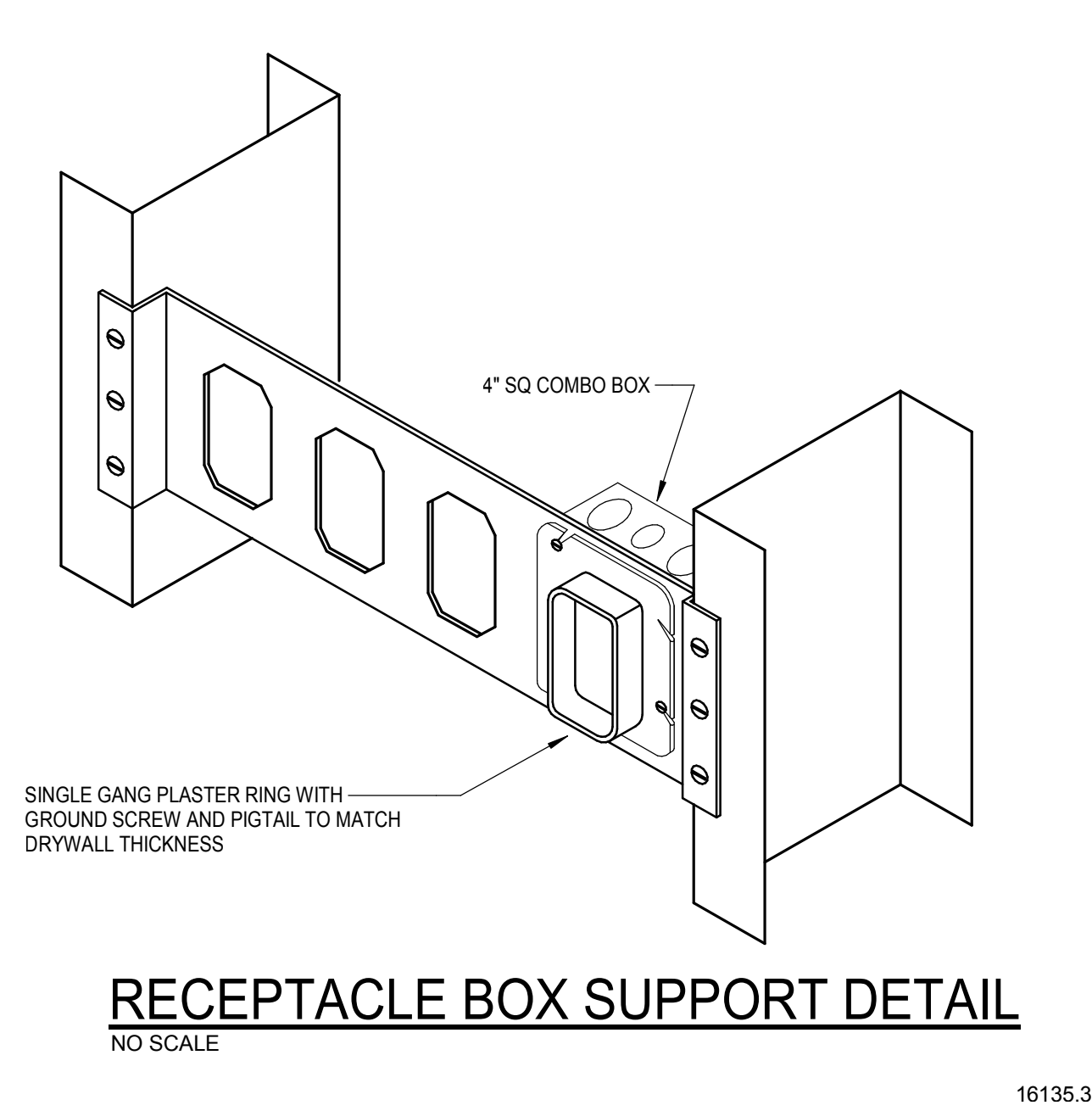
WIREMOLD DETAIL
NO SCALE

16110.6



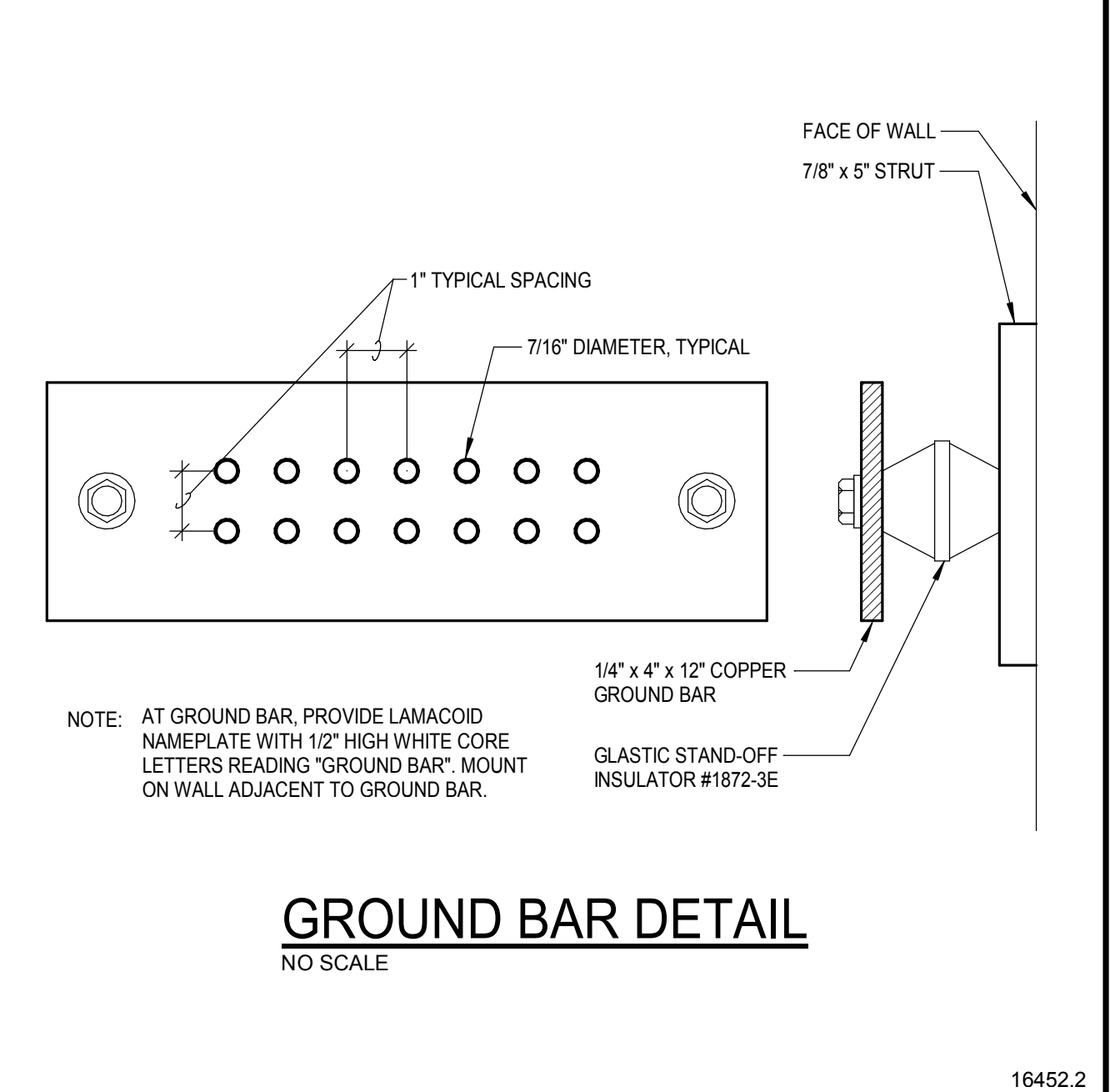
VERTICAL WIREMOLD DETAIL
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16110.7



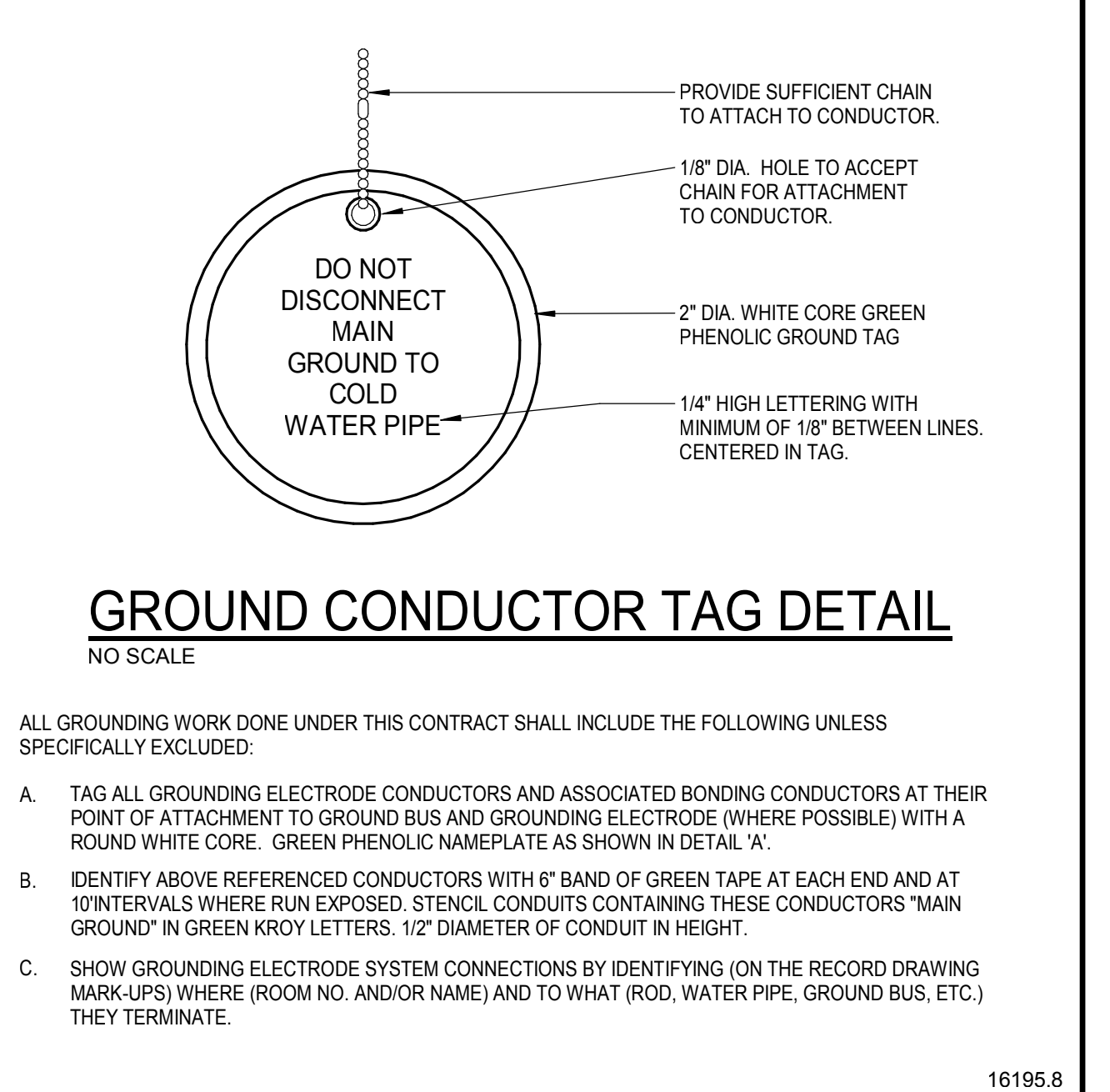
RECEPTACLE BOX SUPPORT DETAIL
NO SCALE

16135.3



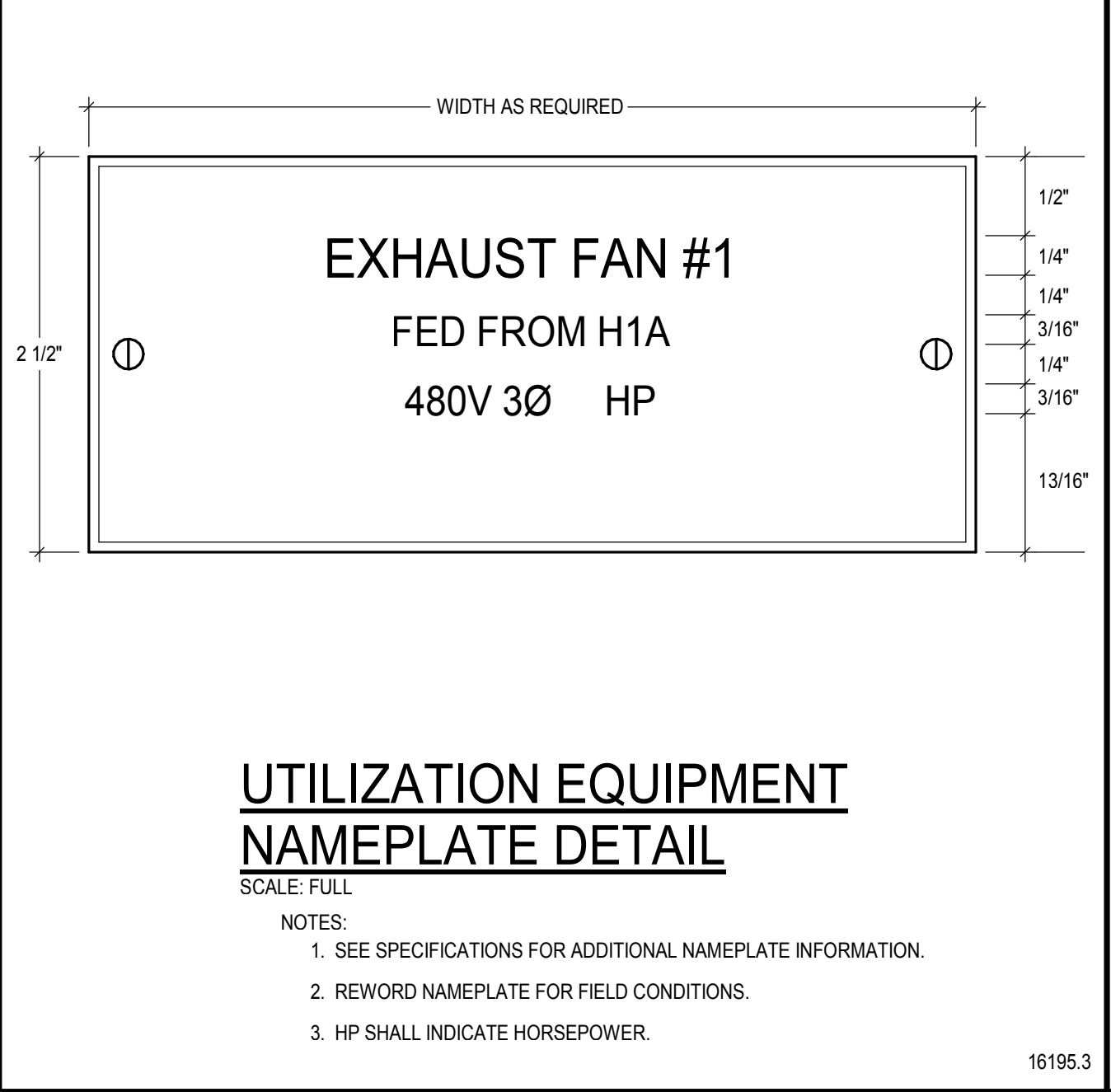
GROUND BAR DETAIL
NO SCALE

16452.2



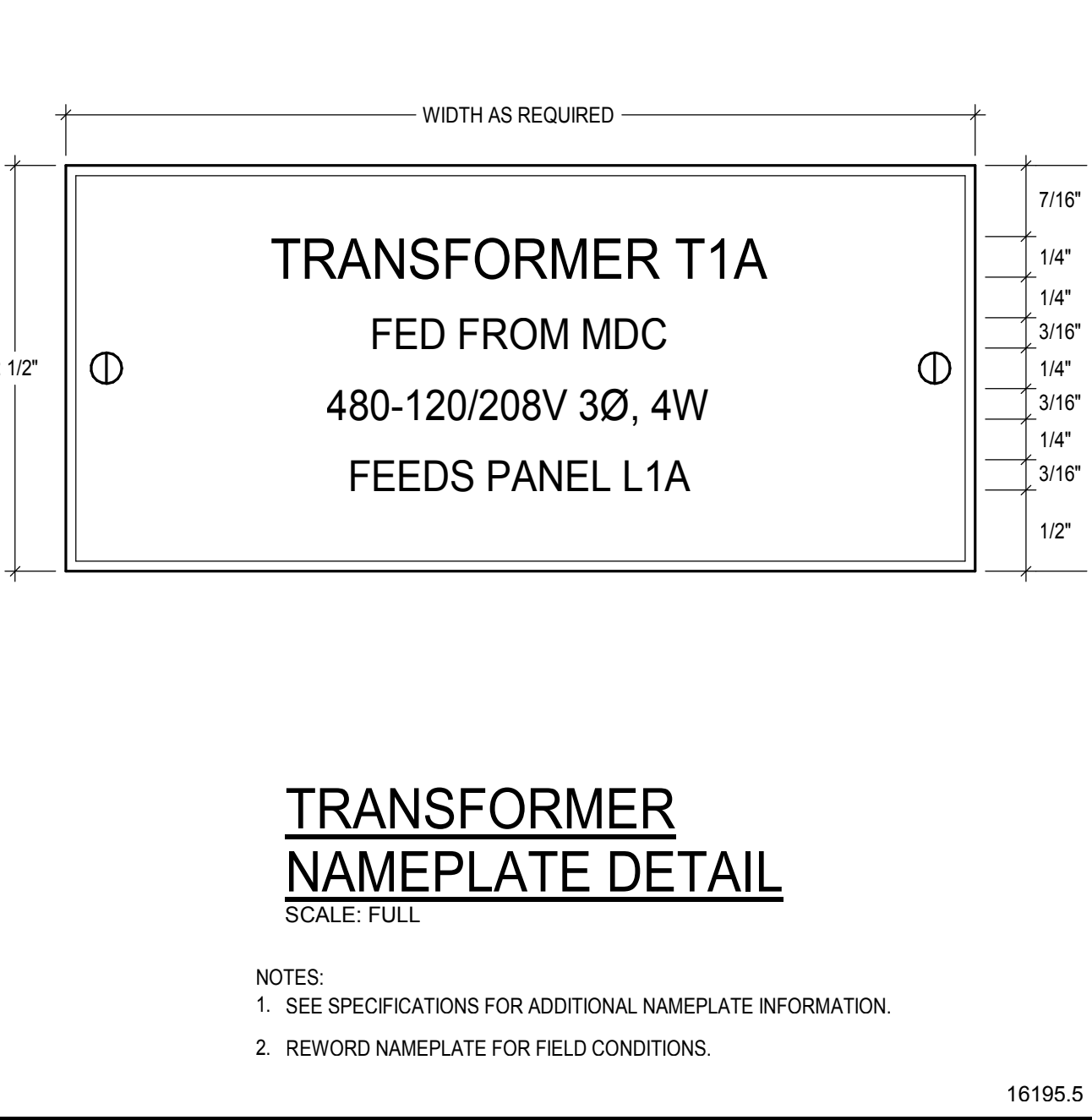
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16195.8



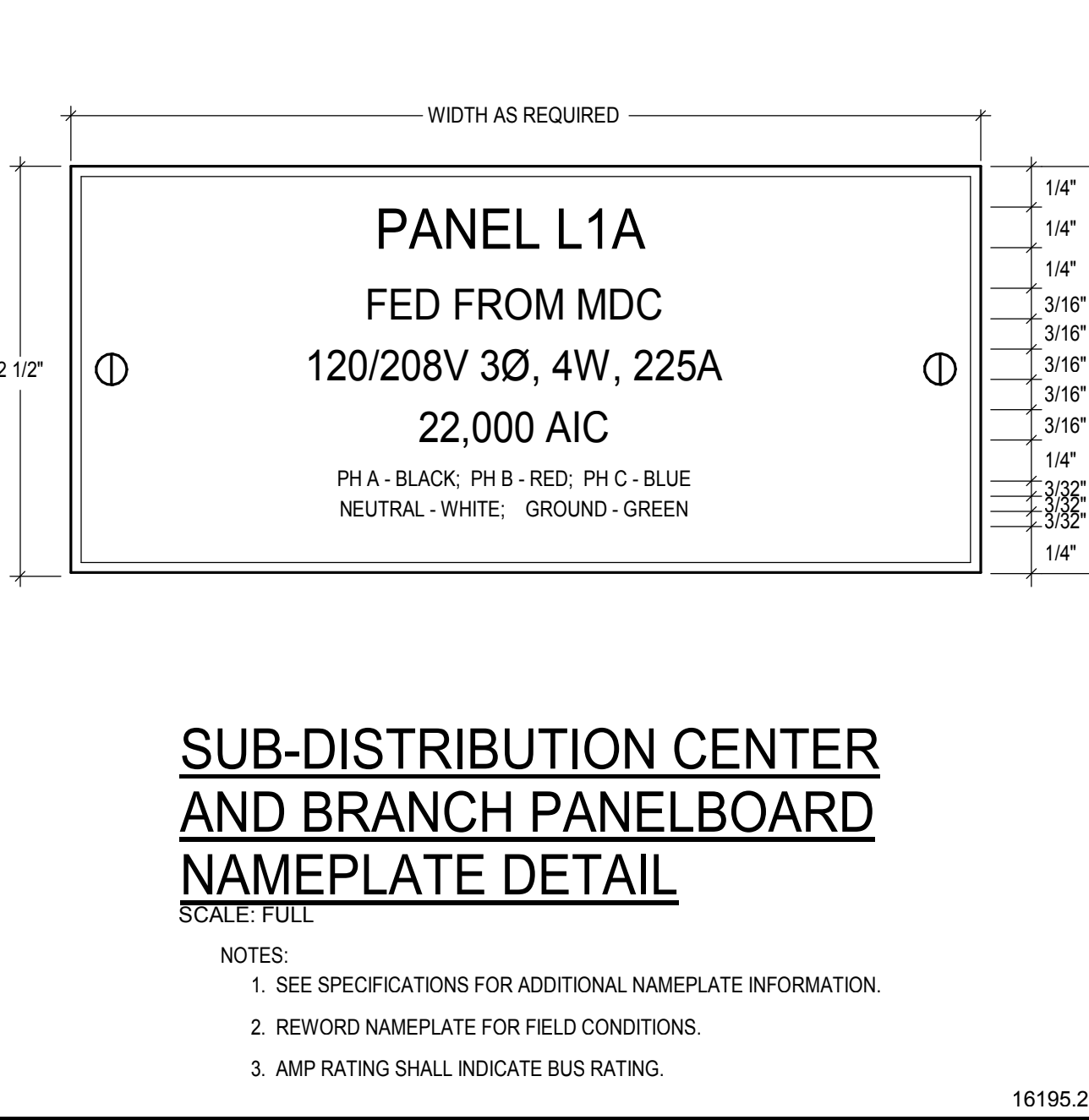
UTILIZATION EQUIPMENT NAMEPLATE DETAIL
SCALE: FULL

16195.3



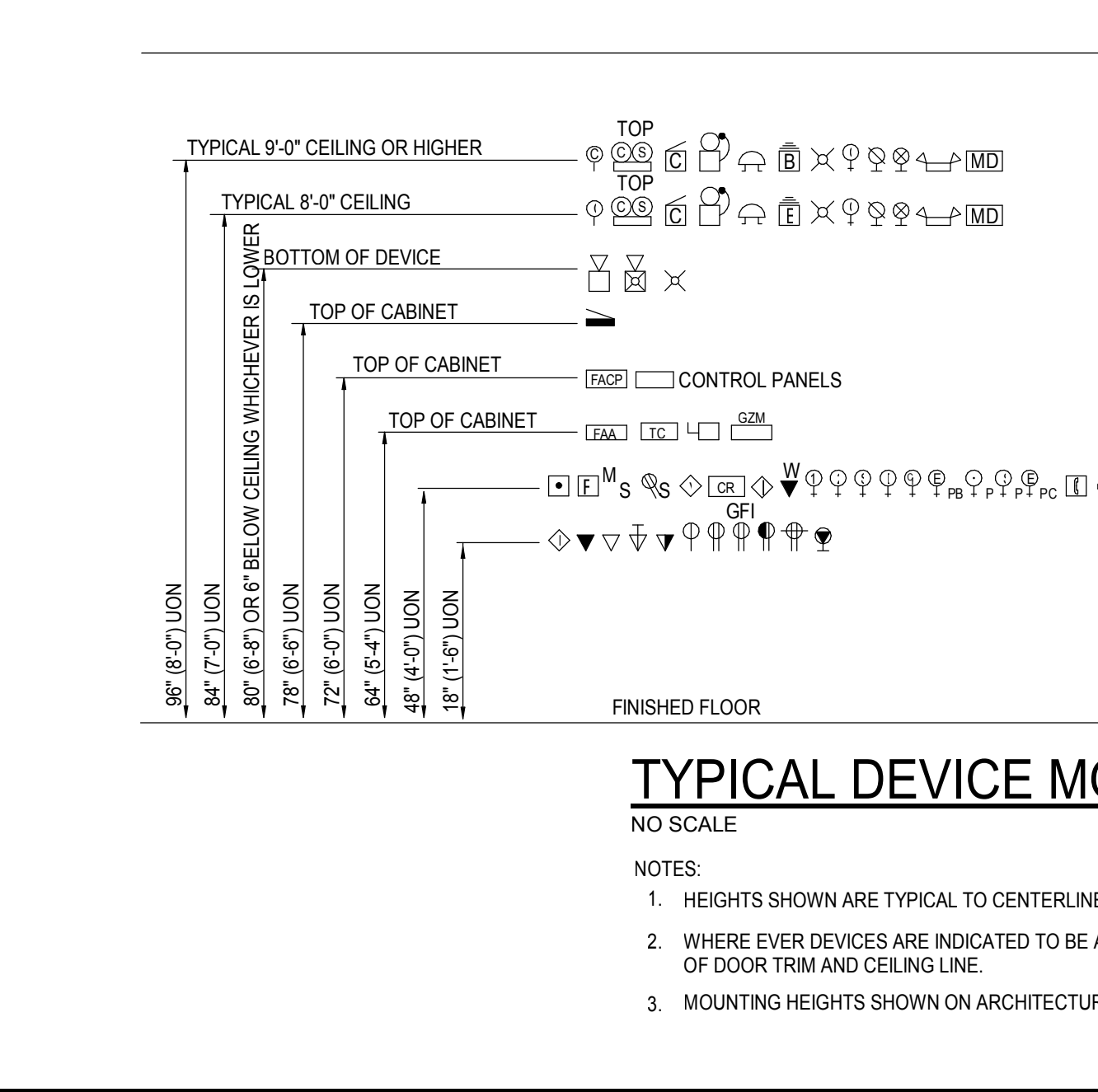
TRANSFORMER NAMEPLATE DETAIL
SCALE: FULL

16195.5



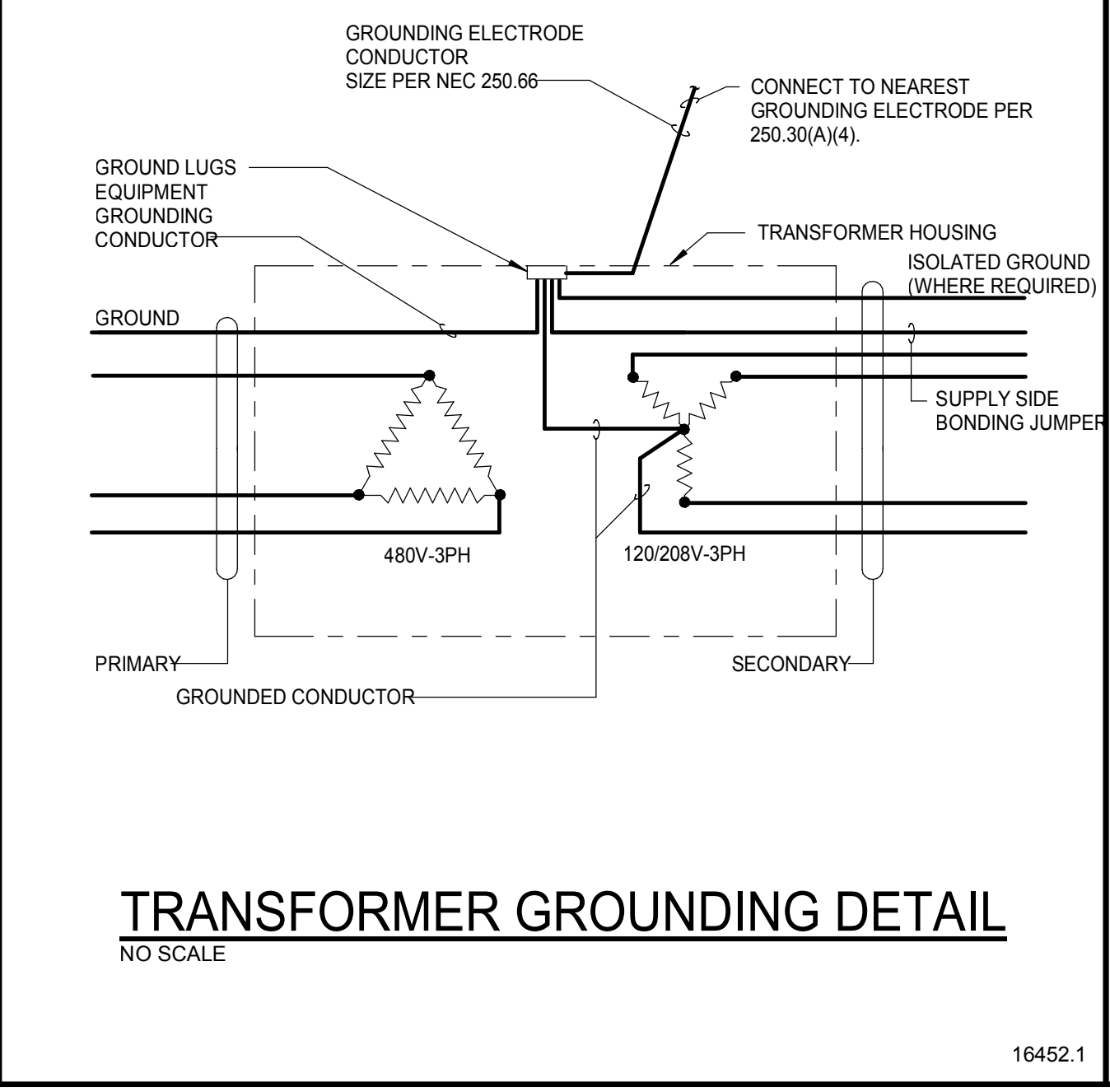
SUB-DISTRIBUTION CENTER AND BRANCH PANELBOARD NAMEPLATE DETAIL
SCALE: FULL

16195.2



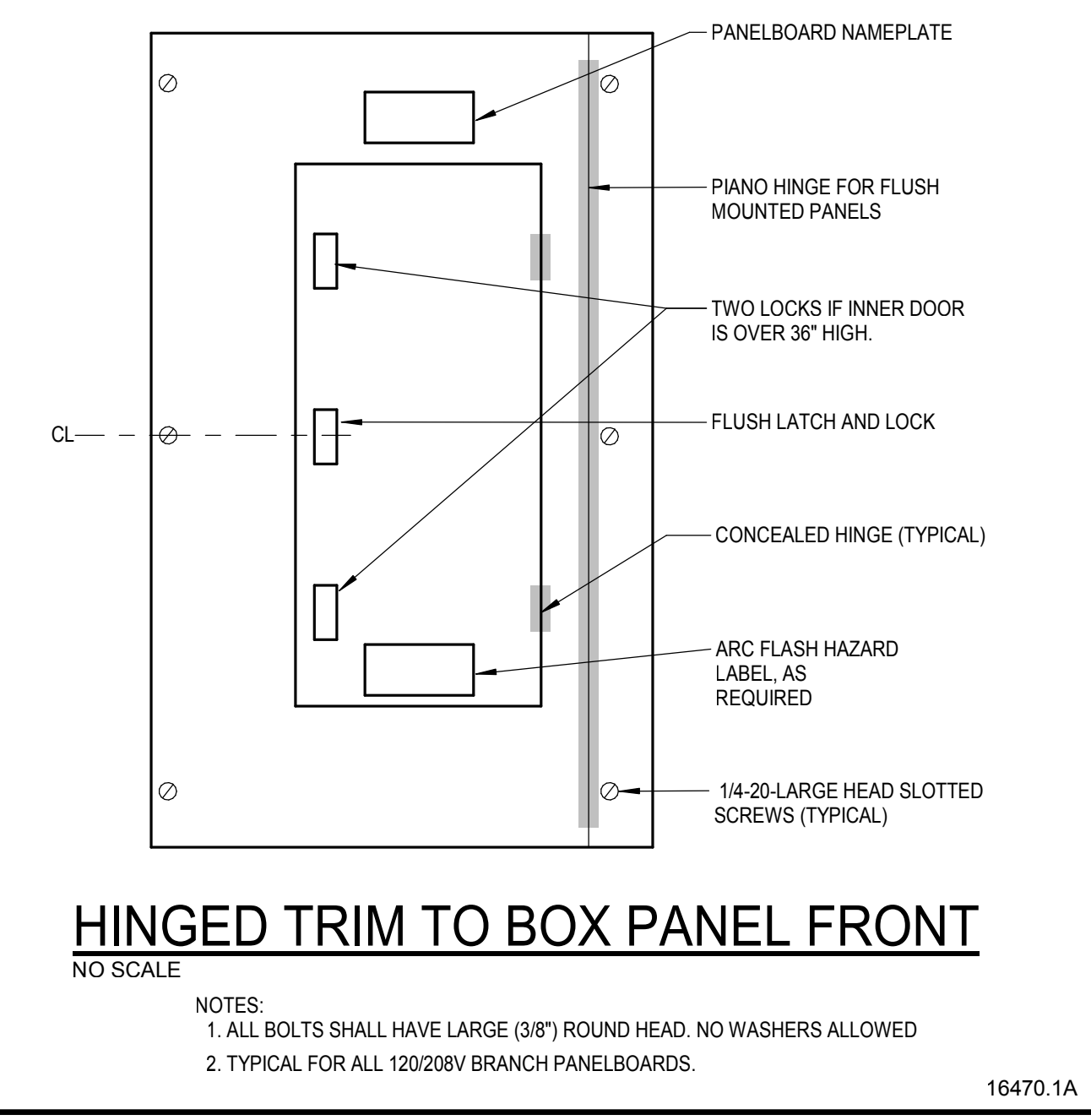
TYPICAL DEVICE MOUNTING HEIGHTS
NO SCALE

16141.1



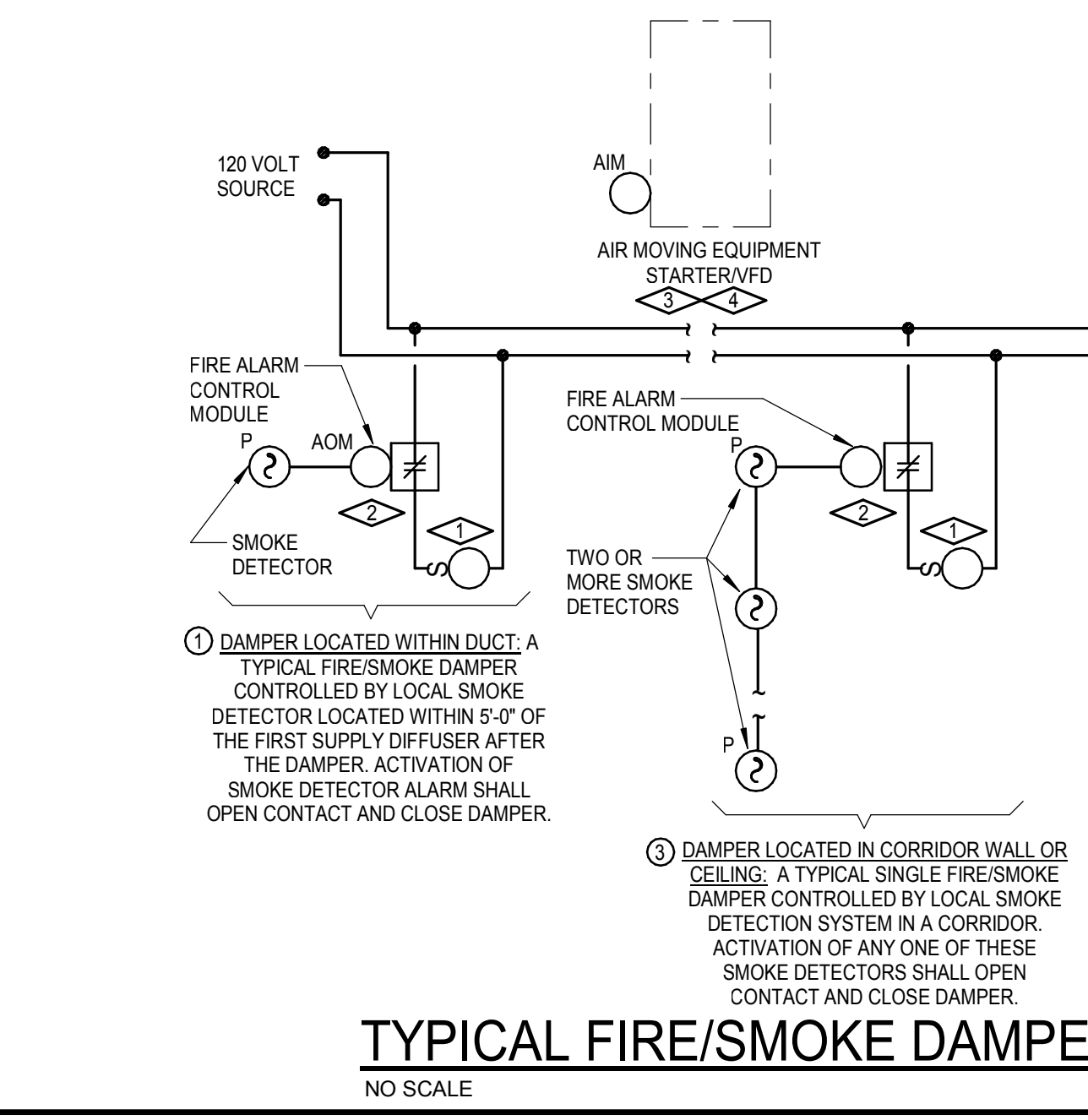
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16452.1



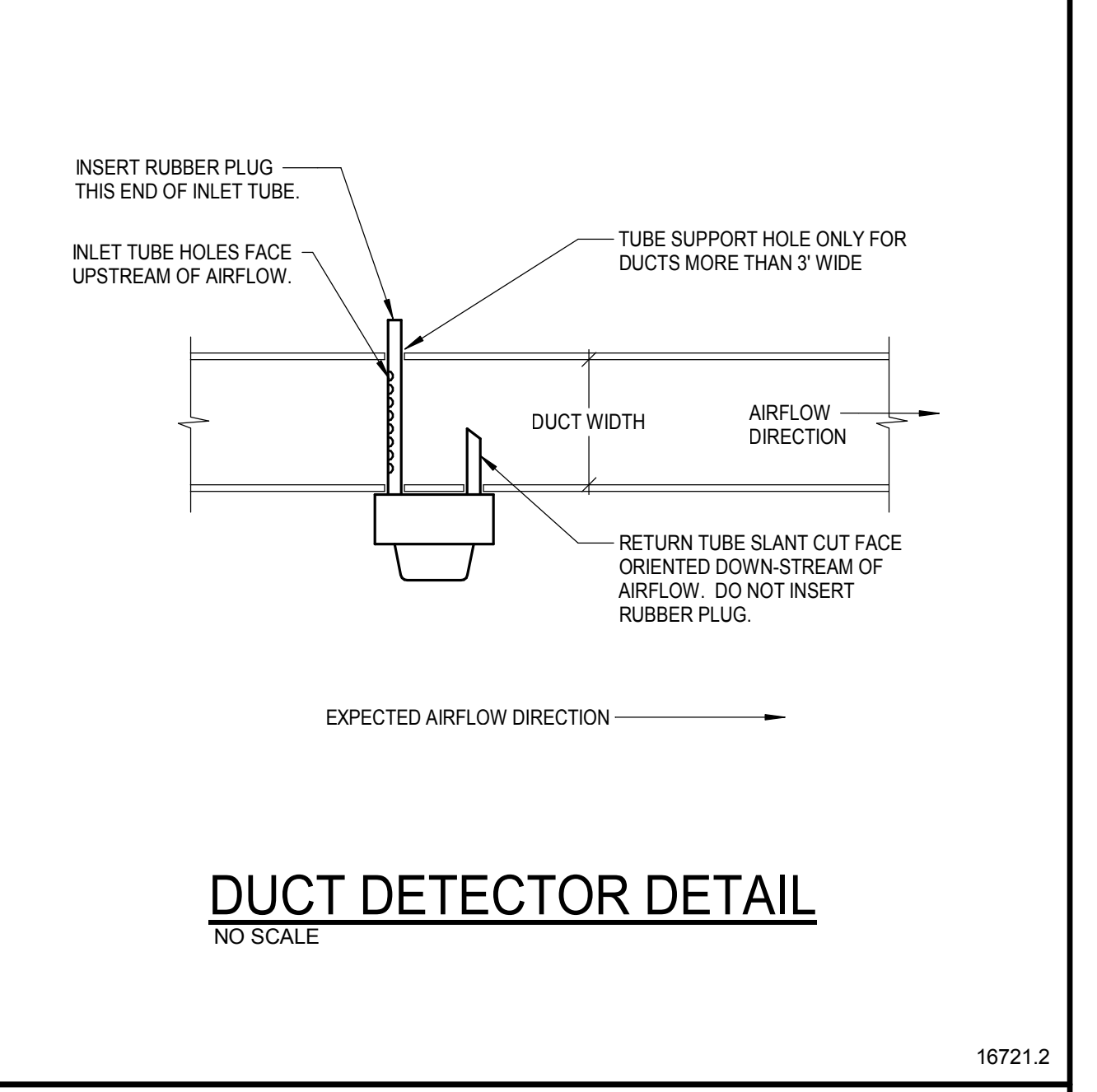
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NO SCALE

16470.1A



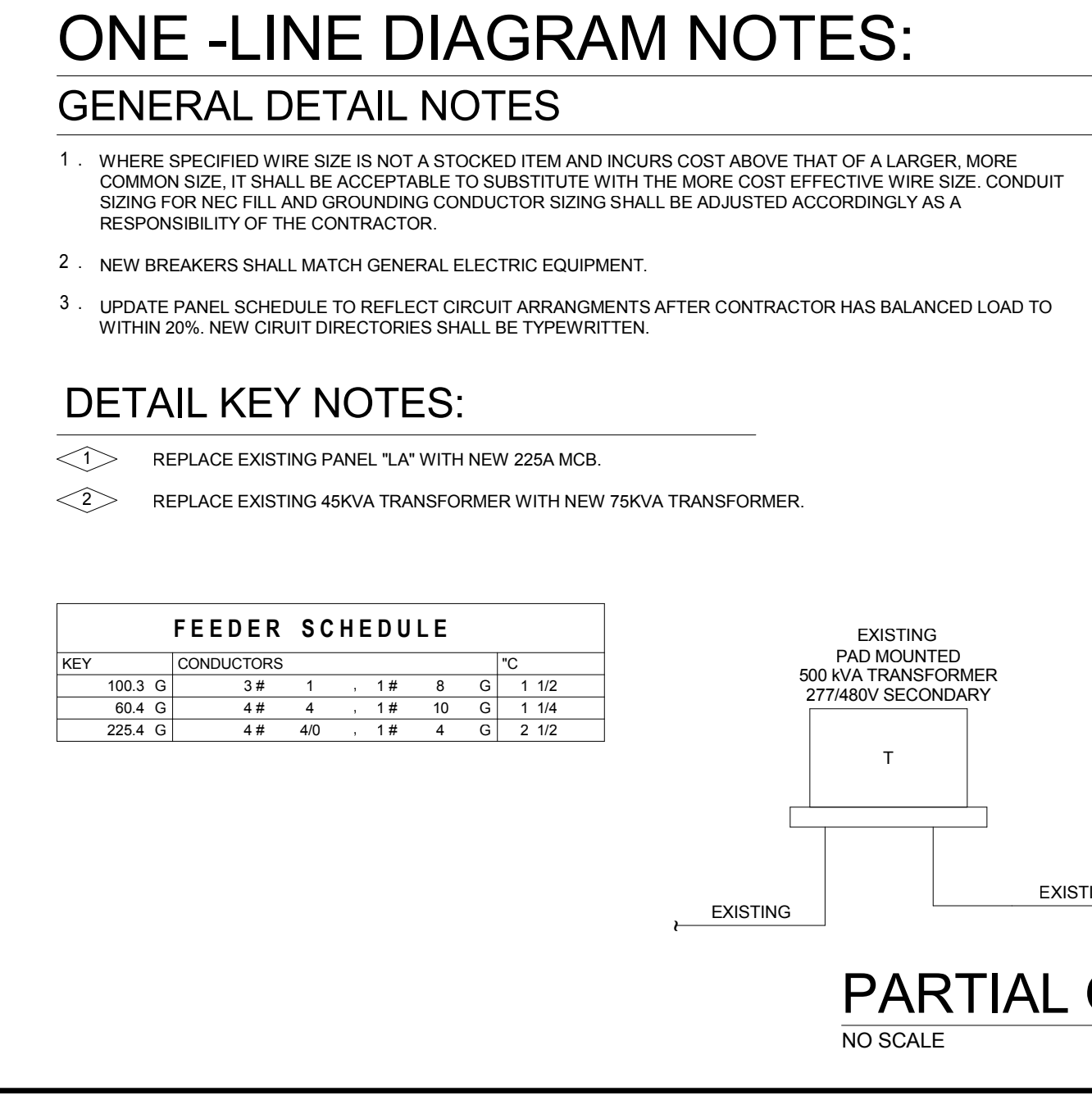
TYPICAL FIRE/SMOKE DAMPER CONTROL WIRING DIAGRAM
NO SCALE

16721.1



DUCT DETECTOR DETAIL
NO SCALE

16721.2



ONE-LINE DIAGRAM NOTES:
GENERAL DETAIL NOTES

DETAIL KEY NOTES:

FEEDER SCHEDULE

PARTIAL ONE LINE DIAGRAM
NO SCALE

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DRAWING INFORMATION:

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APPROVED BY: CMI

SHEET TITLE:

ELECTRICAL DETAILS & ONE-LINE DIAGRAM


E-201

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OWNER EQUIPMENT SCHEDULE													
GENERAL NOTES:													
A. Prior to work, verify electrical requirements (voltage, amperage, recommended OCPD, conductors, and disconnect) for each piece of equipment.													
B. Prior to work, verify exact location for each piece of equipment with Architect and/or owner.													
SPECIFIC NOTES:													
1. Connect equipment to emergency power.													
2. Provide twist lock receptacle. Refer to plans for configuration.													
3. Equipment furnished with integral disconnect switch.													
Key	Item	HP	FLA	Load	Eq Load (VA)	Voltage	Feeders			Protection	Notes		
							Wire	Ground	Conduit	Breaker	Disconnec t	Fuse	
1	TELE TERM BOARD (TTB)	0	12 A	0 VA	1440 VA	120V 1ph	2#10	#10G	3/4"	30 A			2
2	RACK	0	0 A	2880 VA	2880 VA	120V 1ph	2#10	#10G	3/4"	30 A			2
3	FIREPLACE	0	13 A	0 VA	1608 VA	120V 1ph	2#12	#12G	3/4"	20 A			3

TRANSFORMER SCHEDULE																					
GENERAL NOTES:																					
1. OVERCURRENT PROTECTION IS BASED PER NEC 450.3.																					
2. ALL CONDUCTORS ARE COPPER. SEE PLANS FOR INCREASED CONDUCTOR SIZES DUE TO VOLTAGE DROP, ETC.																					
3. SECONDARY BONDING AND GROUNDING CONDUCTORS ARE SIZED PER NEC 250.68 AND 250.102.																					
4. DIMENSIONS, WEIGHTS & BTUH OUTPUT SHOWN ARE FOR REFERENCE ONLY. ACTUAL DIMENSIONS MAY VARY FROM MANUFACTURER TO MANUFACTURER.																					
5. FOR K-RATED TRANSFORMERS, PROVIDE PARALLEL NEUTRAL CONDUCTORS UNDER TRANSFORMERS, LOW VOLTAGE PANELBOARD, DISCONNECTS AND/OR LOAD.																					
6. CONDUIT 40% FILL RATIO IS BASED ON EMT.																					
KEY	PR	FLA	SEC	FLA	PRIMARY	SECONDARY	SEC	DIMENSIONS	WEIGHT	BTUH	NOTE										
					CB	CONDUCTORS	°C	CB	CONDUCTORS	°C	CNDRS	°C	HIGH	WIDE	DEEP						
					255 A 3 P	1 # 3	1 # 5	1 # 5	1 # 5	1 # 5	1 # 5	1 # 5	1 # 5	1 # 5	1 # 5	1 # 5	665	9696			



COMcheck Software Version COMcheck-Web
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: LCCC-Student Engagement
 Project Type: New Construction

Construction Site: Owner/Agent: LCCC; Designer/Contractor: Cator Ruma and Associates

Additional Efficiency Package
 Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Allowed Interior Lighting Power

Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Collaboration Center (School/University)	8595	0.78	6730
Total Allowed Watts =			6730

Proposed Interior Lighting Power

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	A	B	C	D	E
	Lamps / Fixture	# of Fixture	Fixture Watt.	(C X D)	(C X D)
1-Collaboration Center (School/University)					
LED: C1-LED COVE; Other:	1	34	20	680	
LED: D1-LED 6" CAN; Other:	1	5	11	55	
LED: D2-LED 4" CAN; Other:	1	14	11	154	
LED: D3-LED 8" CAN SURFACE; Other:	1	8	12	96	
LED: P2-LED PENDANT; Other:	1	30	31	930	
LED: S1-LED STRIP; Other:	1	5	22	110	
LED: T1-LED TROFFER; Other:	1	67	33	2211	
LED: T2-LED TROFFER; Other:	1	22	21	462	
Total Proposed Watts =					4698

Interior Lighting PASSES: Design 30% better than code
Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version COMcheck-Web and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

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

Project Title: LCCC-Student Engagement
 Data filename: Report date: 12/21/17
 Page 1 of 5

ENERGY CODE COMPLIANCE
SCALE: NONE

LUMINAIRE SCHEDULE										
GENERAL NOTES:										
A. Catalog number refers to first name listed under manufacturer per luminaire type. Remaining manufacturers listed are considered to be equivalent products for this project and shall meet all criteria listed including that called for by the specific luminaire catalog number. Catalog numbers do not necessarily represent complete catalog numbers. All items listed in the description shall be provided.										
B. Refer to lighting specifications for additional requirements.										
C. Provide unit pricing for all luminaires by type and submit with bid form.										
SPECIFIC NOTES:										
1. Verify exact mounting height with architect and provide appropriate suspension length.										
2. No equals will be considered. Contractor shall provide unit pricing for the quantity as shown on these plans.										
Type	Description	Lamp	Apparent Load	Ballast Voltage	Manufacturer	Catalog Series	Finish	Mounting	Recess	Note
C1	LINEAR COVE LIGHT; 4" ALUMINUM HOUSING; 2,200 LUMEN PACKAGE AT 110 LPW EFFICACY; 50,000 HR LIFE AT L70 DEPRECIATION; ELECTRONIC DRIVER; 0-10V DIMMING (TO 10% OUTPUT); UNIVERSAL INPUT; DAMP LOCATION LISTED; 5-YR WARRANTY.	LED, 4000K, 85CRI	20 VA	277 V	SELF	CREST SERIES FP14 SERIES	SILVER	SURFACE MOUNT IN COVE	-	
D1	RECESSED DOWNLIGHT; 4" APERTURE STEEL HOUSING, SELF-FLANGED TRIM RING; 1,000 LUMEN PACKAGE AT 97 LPW EFFICACY; 50,000 HR LIFE AT L70 DEPRECIATION; LOW IRRIDESCENT, SPECULAR REFLECTOR W/ MEDIUM BEAM DISTRIBUTION; ELECTRONIC DRIVER; 0-10V DIMMING (TO 10% OUTPUT); UNIVERSAL INPUT; 26" C-CHANNEL BAR HANGERS; 5-YR WARRANTY.	LED, 4000K, 80CRI	11 VA	277 V	PORTFOLIO CREE PRESCOLITE	LD68 SERIES S-DL6 SERIES LF6SL SERIES	WHITE TRIM RING	RECESSED IN GYP/ACCT CEILING	0'-6"	
D2	RECESSED DOWNLIGHT; 4" APERTURE STEEL HOUSING, SELF-FLANGED TRIM RING; 1,000 LUMEN PACKAGE AT 97 LPW EFFICACY; 50,000 HR LIFE AT L70 DEPRECIATION; LOW IRRIDESCENT, SPECULAR REFLECTOR W/ MEDIUM BEAM DISTRIBUTION; ELECTRONIC DRIVER; 0-10V DIMMING (TO 10% OUTPUT); UNIVERSAL INPUT; 26" C-CHANNEL BAR HANGERS; 5-YR WARRANTY.	LED, 4000K, 80CRI	11 VA	277 V	PORTFOLIO CREE PRESCOLITE	LD48 SERIES S-DL4 SERIES LF4SL SERIES	WHITE TRIM RING	RECESSED IN GYP/ACCT CEILING	0'-4"	
D3	SURFACE DOWNLIGHT; ALUMINUM HOUSING WITH POLYCARBONATE LENS; 800 LUMEN PACKAGE AT 66 LPW EFFICACY; 50,000 HR LIFE AT L70 DEPRECIATION; ELECTRONIC DRIVER; 0-10V DIMMING (TO 10% OUTPUT); DAMP LOCATION LISTED; WET LOCATION LISTED; 5-YR WARRANTY.	LED, 4000K, 80CRI	12 VA	277 V	HALO	SLD 600 SERIES	WHITE TRIM RING	SURFACE MOUNT	-	
ED	EXIT DISCHARGE LIGHT; WEATHERPROOF; REMOTE LAMP HEAD; GASKETED FOR OUTDOOR USE; THERMOPLASTIC MOUNTING PLATE; WET LOCATION RATED; POWERED BY X3; 1-YR WARRANTY.	LED INCLUDED	5 VA	7 V	CHLORIDE	CA-51400 SERIES	WHITE	WALL MOUNT +8'-0" A.F.F.	-	
P2	LINEAR PENDANT; EXTRUDED ALUMINUM HOUSING; 4,000 (2,000 DIRECT, 2,000 INDIRECT) LUMEN PACKAGE AT 123 LPW EFFICACY; 50,000 HR LIFE AT L80 DEPRECIATION; ELECTRONIC DRIVER; 0-10V DIMMING (TO 1% OUTPUT); UNIVERSAL INPUT; 5-YR WARRANTY.	LED, 4000K, 80CRI	31 VA	277 V	LUMENVERX AXIS	VIA 4 SERIES BEAM 4 SERIES	WHITE	SOLID PENDANT MOUNT FROM STRUCTURE +8'-0" A.F.F.	-	1
S1	INDUSTRIAL STRIP; 4" STEEL HOUSING; 3,371 LUMEN PACKAGE AT 193 LPW EFFICACY; 170,000 HR LIFE AT L70 DEPRECIATION; ELECTRONIC DRIVER; UNIVERSAL INPUT; 0-10V DIMMING (TO 10% OUTPUT); DAMP LOCATION LISTED; 5-YR WARRANTY.	LED, 4000K, 85CRI	22 VA	277 V	METALUX	SNLED SERIES	WHITE	SURFACE, PENDANT, OR CHAIN	-	
T1	RECESSED TROFFER; 2X2' STEEL HOUSING; CURVED FROSTED ACRYLIC DIFFUSER; 3,900 LUMEN PACKAGE AT 118 LPW EFFICACY; 50,000 HR LIFE AT L70 DEPRECIATION; ELECTRONIC DRIVER; UNIVERSAL INPUT; 0-10V DIMMING (TO 10% OUTPUT); DAMP LOCATION LISTED; 5-YR WARRANTY.	LED, 4000K, 85CRI	33 VA	277 V	H.E. WILLIAMS	LT SERIES	WHITE	RECESSED IN GYP/ACCT CEILING	0'-4"	2
T2	RECESSED TROFFER; 2X2' STEEL HOUSING; CURVED FROSTED ACRYLIC DIFFUSER; 2,700 LUMEN PACKAGE AT 123 LPW EFFICACY; 50,000 HR LIFE AT L70 DEPRECIATION; ELECTRONIC DRIVER; UNIVERSAL INPUT; 0-10V DIMMING (TO 10% OUTPUT); DAMP LOCATION LISTED; 5-YR WARRANTY.	LED, 4000K, 85CRI	21 VA	277 V	H.E. WILLIAMS	LT SERIES	WHITE	RECESSED IN GYP/ACCT CEILING	0'-4"	2
X1	EXIT SIGN; SINGLE FACE; SIX INCH LETTERS ON THERMOPLASTIC FACE; HIGH INTENSITY LED LIGHT SOURCE; SOLID STATE CHARGING CIRCUIT; SEALED NICKEL CADMIUM BATTERIES; ORIENT CHEVRONS TO COINCIDE WITH ARCHITECT'S EGRESS PLAN; 1-YR WARRANTY.	LED INCLUDED	5 VA	277 V	SURE-LITES EMERGLITE DUAL-LITE	LPX SERIES PREMIER SERIES EVE SERIES	WHITE WITH RED LETTERS	CEILING OR WALL +8'-0" A.F.F., U.O.N.	-	
X2	EXIT SIGN; DOUBLE FACE; SIX INCH LETTERS ON THERMOPLASTIC FACE; HIGH INTENSITY LED LIGHT SOURCE; SOLID STATE CHARGING CIRCUIT; SEALED NICKEL CADMIUM BATTERIES; ORIENT CHEVRONS TO COINCIDE WITH ARCHITECT'S EGRESS PLAN; 1-YR WARRANTY.	LED INCLUDED	5 VA	277 V	SURE-LITES EMERGLITE DUAL-LITE	LPX SERIES PREMIER SERIES EVE SERIES	WHITE WITH RED LETTERS	CEILING OR WALL +8'-0" A.F.F., U.O.N.	-	
X3	EXIT SIGN; SINGLE FACE; SIX INCH LETTERS ON THERMOPLASTIC FACE; HIGH INTENSITY LED LIGHT SOURCE; SOLID STATE CHARGING CIRCUIT; SEALED NICKEL CADMIUM BATTERIES; ORIENT CHEVRONS TO COINCIDE WITH ARCHITECT'S EGRESS PLAN; BATTERY CAPACITY FOR 90-MINUTE OPERATION OF REMOTE HEAD; 1-YR WARRANTY.	LED INCLUDED	5 VA	277 V	SURE-LITES	LPXH SERIES	WHITE WITH RED LETTERS	CEILING OR WALL +8'-0" A.F.F., U.O.N.	-	

LIGHTING CONTROL MATRIX										
GENERAL NOTES:										
A. Not all space names are listed for each lighting control type. Refer to plans for all spaces to be controlled.										
B. Spaces may contain multiple zones of control. Refer to plans for quantity of zones, switches, etc.										
C. Provide the quantity of sensors as required for full coverage of the space. Devices shown on plan are for design intent only and do not necessarily reflect the exact quantity required for full coverage.										
D. Where a single switch/dimmer is denoted with multiple switch legs, design intent is a single-gang device with multiple-mode control.										
E. All spaces with sensors shall be provided with manual 'off' means. All spaces with time schedule controls shall have means for manual 'on/off'.										
SPECIFIC NOTES:										
1. Utilize 'lock warning' prior to timed lighting shutoff.										
KEY:										
On / Off: M = Manual (switch), A = Automatic (sensor), T = Time schedule, P = Photocell, #% = Control to #% light level										
Dimming: 0-10V, ELV, DMX, DALI, 2L = Dual-level step-dim, 3L = Tri-level step-dim										
Sensor: C = Ceiling-mounted, W = Wall corner-mounted, S = Sensor integral to wall switch, PIR = PIR sensor, DT = Dual Technology sensor										
Daylight: INT = interior dimming protocol, EXT = exterior photocell input, LUM = Photocell integral to luminaire(s)										
Emergency: ALCR = Provide automatic load control relays for luminaires on emergency circuit, provide test switch if not integral to relay										
Interface: N = Tie zone to central control network, BAS = Send sensor status to BAS, AV = Enable scene control through AV system (re: Sec. 26 09 23)										
Type	Space	On	Off	Dimming	Sensor	Timing	Daylight	Emergency	Interface	Notes
LC2	Office - Private	M	A	0-10V	S PIR	10 min				
LC3	Utility	M	M							
LC4	Meeting - Conference Room	A	A	0-10V	C DT	20 min				
LC5	Circulation - Corridor	T	T			30 min				1
LC6	Workspace	A	A	0-10V	C DT	30 min				
LC7	Utility - Small Storage	M	A		S PIR	5 min				


MECHANICAL EQUIPMENT SCHEDULE													
GENERAL NOTES:													
A. Prior to work, verify electrical requirements (voltage, amperage, recommended OCPD, conductors, and disconnect) for each piece of equipment.													
B. Prior to work, verify exact location for each piece of equipment.													
C. Coordinate and provide all field connections as required.													
D. Coordinate 120V power connections to dampers and other control circuits. Group equipment control circuits such that failure of one control circuit does not affect operation of other equipment. For example, do not connect a damper associated with one air handling unit to the same branch circuit as dampers associated with a different air handling unit.													
E. Feeders, breakers, disconnects, and fusing applies to field-installed and/or factory-installed equipment.													
SPECIFIC NOTES:													
1. Provide equipment with integral disconnect switch and fusing as indicated.													
Key	#	Item	HP	FLA	Load	Eq Load (VA)	Voltage	Feeders			Protection	Notes	
								Wire	Ground	Conduit	Breaker	Disconnec t	Fuse
EF	2	EXHAUST FAN	0.25	0 A	0 VA	696 VA	120V 1ph	2#12	#12G	3/4"	20 A	S	
EWH	1	ELECTRIC WATER HEATER	0	0 A	20000 VA	20000 VA	480V 3ph	3#8	#10G	3/4"	35 A	60 A	35 A
HWP	3	PUMP	0.5	0 A	0 VA	1123 VA	208V 1ph	2#12	#12G	3/4"	20 A	S	

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Professional Engineer (Electrical)
CATOR RUMA
14861
Date
WYOMING

PROJECT:

CROSSROADS BUILDING RENOVATION

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

OWNER:

LARAMIE COUNTY COMMUNITY COLLEGE

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

ISSUE:

01.04.2018 CONTRACT DOCUMENTS

DRAWING INFORMATION:

PROJECT NO: 11738.001

DRAWN BY: BJK

CHECKED BY: CMI

APPROVED BY: CMI

SHEET TITLE:

ELECTRICAL SCHEDULES

E-301

SHEET OF

Panel LA

Location: ELEC. 106
Supply From: T75
Mounting: Surface
Enclosure: Type 1

Voltage: 120/208 Wye
Phase: 3
Wire: 4

A.I.C. Rating: 10,000
Mains Type: MCB
Bus Rating: 225 A
MCB Rating: 225 A

- Circuit Notes:
1. NEW LOAD ON EXISTING CIRCUIT BREAKER.
2. PROVIDE GFCI CIRCUIT BREAKER.
3. REPLACE EXISTING CIRCUIT BREAKER WITH NEW CIRCUIT BREAKER.

Table with columns: Note, Circ., Load, Type, Trip, Po., A, B, C, Po., Trip, Type, Load, Circ., Note. Contains circuit details for Panel LA including telephone, bookstores, and kitchen equipment.

Table with columns: Load Type, Connected Load, Demand Factor, Demand Load, Panel Totals. Summarizes total connected load (27332 VA) and demand load (23704 VA) for Panel LA.

General Notes:
NEW PANELBOARD

Panel LB

Location: ELEC. 106
Supply From: LA
Mounting: Surface
Enclosure: Type 1

Voltage: 120/208 Wye
Phase: 3
Wire: 4

A.I.C. Rating: 10,000
Mains Type: MLO
Bus Rating: 100 A

Circuit Notes:

Table with columns: Note, Circ., Load, Type, Trip, Po., A, B, C, Po., Trip, Type, Load, Circ., Note. Contains circuit details for Panel LB including lobby, seat area, and fan room.

Table with columns: Load Type, Connected Load, Demand Factor, Demand Load, Panel Totals. Summarizes total connected load (4960 VA) and demand load (5863 VA) for Panel LB.

General Notes:
EXISTING PANELBOARD

Panel PA

Location: ELEC. 106
Supply From: Surface
Mounting: Surface
Enclosure: Type 1

Voltage: 480/277 Wye
Phase: 3
Wire: 4

A.I.C. Rating: 14,000
Mains Type: MLO
Bus Rating: 225 A

- Circuit Notes:
1. NEW LOAD ON EXISTING CIRCUIT BREAKER.
2. REPLACE EXISTING CIRCUIT BREAKER WITH NEW CIRCUIT BREAKER.

Table with columns: Note, Circ., Load, Type, Trip, Po., A, B, C, Po., Trip, Type, Load, Circ., Note. Contains circuit details for Panel PA including various storage rooms and HVAC units.

Table with columns: Load Type, Connected Load, Demand Factor, Demand Load, Panel Totals. Summarizes total connected load (43038 VA) and demand load (45742 VA) for Panel PA.

General Notes:
EXISTING PANELBOARD

LOAD REVISION SUMMARY

Table with columns: DESCRIPTION, CONNECTED LOAD, NEC DEMAND, DEMAND KVA. Shows summary of load revisions including demulsified lights, new lighting, and mechanical loads.

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PROJECT:

CROSSROADS
BUILDING
RENOVATION

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

OWNER:

LARAMIE COUNTY
COMMUNITY
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1400 EAST COLLEGE DRIVE
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ISSUE:

01.04.2018 CONTRACT DOCUMENTS

DRAWING INFORMATION:

PROJECT NO: 11738.001
DRAWN BY: BJK
CHECKED BY: CMI
APPROVED BY: CMI
SHEET TITLE:

ELECTRICAL PANEL
SCHEDULES

E-302

SHEET OF

STRUCTURED CABLING LEGEND

BY CABLING CONTRACTOR										ROUGH-IN AND SUPPORT BY ELECTRICAL CONTRACTOR						
SYMBOL	DESCRIPTION	DETAIL	MOUNTING HEIGHT ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE ON PLANS	# OF UTP CABLES	# OF UTP JACKS	# OF FACEPLATE OPENINGS	NOTES	PROVIDE 1-GANG BACKBOX	PROVIDE 2-GANG BACKBOX	PROVIDE 3-GANG BACKBOX	PROVIDE 1-GANG PLASTER RING	PROVIDE 2-GANG PLASTER RING	PROVIDE 3-GANG PLASTER RING	PROVIDE CONDUIT	NOTES	
WALL MOUNTED DEVICES																
◀	DATA OUTLET - TYPICAL	1/T-810	+18"	(2)	(2)	(4)	# NEXT TO SYMBOL INDICATES QUANTITY OF CABLES OTHER THAN TYPICAL.	--	✓	--	✓	--	--	(1) 1"	PROVIDE CONDUIT FROM BOX UP INTO CLOSEST ACCESSIBLE CEILING SPACE AND CAP WITH NYLON BUSHING. PROVIDE PULL STRING.	
◀AC	DATA OUTLET ABOVE COUNTER	1/T-810	ABOVE COUNTER	(2)	(2)	(4)	# NEXT TO SYMBOL INDICATES QUANTITY OF CABLES OTHER THAN TYPICAL.	--	✓	--	✓	--	--	(1) 1"	PROVIDE CONDUIT FROM BOX UP INTO CLOSEST ACCESSIBLE CEILING SPACE AND CAP WITH NYLON BUSHING. PROVIDE PULL STRING.	
◀TV	TELEVISION OUTLET	2/T-810	+65"	(1) COAX, (1) UTP	(1) COAX, (1) UTP	(4)	--	--	✓	--	✓	--	--	(1) 1"	PROVIDE CONDUIT FROM BOX UP INTO CLOSEST ACCESSIBLE CEILING SPACE AND CAP WITH NYLON BUSHING. PROVIDE PULL STRING.	
◀PP	DATA OUTLET POWER POLE	--	--	(2)	(2)	(4)	MOUNT DATA OUTLETS IN POWER POLE. # NEXT TO SYMBOL INDICATES QUANTITY OF CABLES OTHER THAN TYPICAL.	--	✓	--	✓	--	--	(1) 1"	PROVIDE CONDUIT FROM BOX UP INTO CLOSEST ACCESSIBLE CEILING SPACE AND CAP WITH NYLON BUSHING. PROVIDE PULL STRING.	
◀W	WALL PHONE OUTLET	3/T-810	+46"	(1)	(1)	(1)	--	--	✓	--	✓	--	--	(1) 1"	LEAVE 6" CLEARANCE ON WALL FROM CENTER OF FINISHED BACKBOX. PROVIDE CONDUIT FROM BOX UP INTO CLOSEST ACCESSIBLE CEILING SPACE AND CAP WITH NYLON BUSHING. PROVIDE PULL STRING.	
◀WM	WIRELESS ACCESS POINT OUTLET WALL MOUNTED	--	AS NOTED ON PLANS	(2)	(2)	(4)	PROVIDE TYPICAL FACEPLATE FOR ACCESS POINT.	--	✓	--	✓	--	--	(1) 1"	PROVIDE CONDUIT FROM BOX UP INTO CLOSEST ACCESSIBLE CEILING SPACE AND CAP WITH NYLON BUSHING. PROVIDE PULL STRING.	
◀BP	AV BUTTON PANEL CONTROLLER	--	AS NOTED ON PLANS	(1)	(1)	(1)	PROVIDE SURFACE MOUNT 'BISCUIT' JACK IN BOX.	--	--	--	--	--	--	--	REFER TO THE AUDIO VISUAL LEGEND FOR ROUGH-IN REQUIREMENTS.	
UNDERFLOOR / IN FLOOR DEVICES																
◀	DATA/POWER FLOOR BOX WITH OUTLETS	--	IN FLOOR	(2)	(2)	(4)	PROVIDE OUTLET IN DATA SECTION OF FLOOR BOX. # NEXT TO SYMBOL INDICATES QUANTITY OF CABLES OTHER THAN TYPICAL.	--	--	--	--	--	--	✓	PROVIDE FLOOR BOX DEVICE AND CONDUIT TO ACCESSIBLE CEILING OF THE ROOM IT SERVES PER THE DETAIL.	
◀AV	AV/DATA/POWER FLOOR BOX WITH OUTLETS	--	IN FLOOR	(2)	(2)	(4)	PROVIDE OUTLET IN DATA SECTION OF FLOOR BOX. # NEXT TO SYMBOL INDICATES QUANTITY OF CABLES OTHER THAN TYPICAL.	--	--	--	--	--	--	✓	PROVIDE FLOOR BOX DEVICE AND CONDUIT TO ACCESSIBLE CEILING OF THE ROOM IT SERVES PER THE DETAIL.	
○	CONDUIT PENETRATING SLAB	4/T-810	IN FLOOR	--	--	--	ROUTE CABLING NEATLY THROUGH CORE. PROVIDE TEMP FIRESTOPPING DURING CONSTRUCTION AND FINAL FIRESTOPPING AFTER ALL CABLING IS PULLED.	--	--	--	--	--	--	4" U.N.O.	PROVIDE FLOOR CORE AND CONDUIT PER DRAWINGS AND CONDUIT RISER DIAGRAM. PROVIDE INNERDUCT PER NOTES BELOW.	
CEILING/ABOVE CEILING MOUNTED DEVICES																
◀	DATA OUTLET ABOVE CEILING	7/T-810	ABOVE CEILING	(1)	(1)	(1)	PROVIDE SURFACE MOUNT 'BISCUIT' JACKS ABOVE ACCESSIBLE CEILING. "CAM" INDICATES THE OUTLET IS FOR A SECURITY CAMERA.	--	--	--	--	--	--	--	--	
◀	WIRELESS ACCESS POINT OUTLET	8/T-810	ABOVE ACCESSIBLE CEILING	(2)	(2)	(2)	PROVIDE SURFACE MOUNT 'BISCUIT' JACKS ABOVE ACCESSIBLE CEILING.	--	--	--	--	--	--	--	--	
—	HORIZONTAL CONDUIT SLEEVE FOR CABLE ROUTING	5/T-810	ABOVE CEILING	--	--	--	--	--	--	--	--	--	--	✓	PROVIDE QUANTITY AND SIZE AS SHOWN ON PLANS. CONDUITS SHALL NOT PROJECT MORE THAN 3" BEYOND WALL. PROVIDE NYLON BUSHINGS ON EACH END. INSTALL AS LOW AS POSSIBLE ABOVE ACCESSIBLE CEILING TILE FOR EASY ACCESS TO EACH END.	
---	CABLE SUPPORT PATHWAY	10/T-810	ABOVE ACCESSIBLE CEILING	--	--	--	PROVIDE J-HOOKS AS NECESSARY FOR PROPER ROUTING OF CABLES FROM EACH DEVICE TO THE MAIN RUNS.	--	--	--	--	--	--	--	--	

AUDIO VISUAL LEGEND

BY AUDIO VISUAL CONTRACTOR										ROUGH-IN AND SUPPORT BY ELECTRICAL CONTRACTOR						
SYMBOL	DESCRIPTION	DETAIL	MOUNTING HEIGHT ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE ON PLANS	NOTES	PROVIDE 1-GANG BACKBOX	PROVIDE 2-GANG BACKBOX	PROVIDE 3-GANG BACKBOX	PROVIDE 1-GANG PLASTER RING	PROVIDE 2-GANG PLASTER RING	PROVIDE 3-GANG PLASTER RING	PROVIDE CONDUIT	NOTES				
WALL MOUNTED DEVICES																
◀AV ¹	2-GANG AUDIO VISUAL ROUGH-IN BOX	--	AS NOTED ON PLANS	PROVIDE FACEPLATE, CABLING AND INSTALLATION PER WIRING DIAGRAMS AND DESCRIPTIONS ON DRAWINGS.	--	✓	--	✓	--	--	(1) 1-1/4"	PROVIDE CONDUIT FROM BOX UP INTO CLOSEST ACCESSIBLE CEILING SPACE AND CAP WITH NYLON BUSHING. PROVIDE PULL STRING.				
◀AV ²	2-GANG AUDIO VISUAL ROUGH-IN BOX	--	AS NOTED ON PLANS	PROVIDE FACEPLATE, CABLING AND INSTALLATION PER WIRING DIAGRAMS AND DESCRIPTIONS ON DRAWINGS.	--	✓	--	✓	--	--	(1) 1-1/4"	PROVIDE CONDUIT FROM BOX UP INTO CLOSEST ACCESSIBLE CEILING SPACE AND CAP WITH NYLON BUSHING. PROVIDE PULL STRING.				
◀AV ³	3-GANG AUDIO VISUAL ROUGH-IN BOX	--	AS NOTED ON PLANS	PROVIDE FACEPLATE, CABLING AND INSTALLATION PER WIRING DIAGRAMS AND DESCRIPTIONS ON DRAWINGS.	--	--	✓	--	--	✓	(2) 1-1/4"	PROVIDE CONDUIT FROM BOX UP INTO CLOSEST ACCESSIBLE CEILING SPACE AND CAP WITH NYLON BUSHING. PROVIDE PULL STRING.				
◀BP ¹	AV BUTTON PANEL CONTROLLER (1-GANG)	--	AS NOTED ON PLANS	PROVIDE SURFACE MOUNT 'BISCUIT' JACK IN BOX.	--	✓	--	✓	--	--	(2) 1"	PROVIDE CONDUIT FROM BOX UP INTO CLOSEST ACCESSIBLE CEILING SPACE AND CAP WITH NYLON BUSHING. PROVIDE PULL STRING.				
◀BP ²	AV BUTTON PANEL CONTROLLER (2-GANG)	--	AS NOTED ON PLANS	PROVIDE SURFACE MOUNT 'BISCUIT' JACK IN BOX.	--	✓	--	✓	--	--	(2) 1"	PROVIDE CONDUIT FROM BOX UP INTO CLOSEST ACCESSIBLE CEILING SPACE AND CAP WITH NYLON BUSHING. PROVIDE PULL STRING.				
◀D	WALL MOUNTED FLAT PANEL DISPLAY. #D = DISPLAY SIZE. #H = MOUNTING HEIGHT TO CENTER OF DISPLAY.	1/T-830	#H AS INDICATED WITH SYMBOL	PROVIDE DISPLAY, MOUNT AND INSTALLATION.	--	--	--	--	--	--	--	PROVIDE ROUGH-IN FOR AV, DATA AND POWER AS SHOWN ON DRAWING AND DETAIL. PROVIDE WALL BACKING.				
UNDERFLOOR / IN FLOOR DEVICES																
◀AV	AV/DATA/POWER FLOOR BOX WITH OUTLETS	--	IN FLOOR	PROVIDE FACEPLATES, CABLING AND TERMINATIONS FOR AV IN FLOOR BOX.	--	--	--	--	--	--	(1) 1-1/2"	PROVIDE FLOOR BOX DEVICE AND CONDUIT PER THE DETAIL. CONDUIT SHALL RUN TO CLOSEST ACCESSIBLE CEILING SPACE AND CAP WITH NYLON BUSHING.				

ABBREVIATIONS

A.F.F. - ABOVE FINISHED FLOOR
 U.N.O. - UNLESS NOTED OTHERWISE
 AC - ABOVE COUNTER
 CLG - ABOVE CEILING
 OFOI - OWNER FURNISHED, OWNER INSTALLED
 OFCI - OWNER FURNISHED, CONTRACTOR INSTALLED
 CFCI - CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

hord | coplan | macht

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 8821 E. Hampden Ave, Suite 212
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PROJECT:

**CROSSROADS
 BUILDING
 RENOVATION**

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OWNER:

**LARAMIE COUNTY
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 COLLEGE**

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ISSUE:

12.22.2017 CONTRACT DOCUMENTS

DRAWING INFORMATION:

PROJECT NO: 11738.001

DRAWN BY: SMA

CHECKED BY: ADP

APPROVED BY: ADP

SHEET TITLE:

**TECHNOLOGY
 SYSTEMS LEGEND**

T-010

SHEET OF

CONSULTANT:

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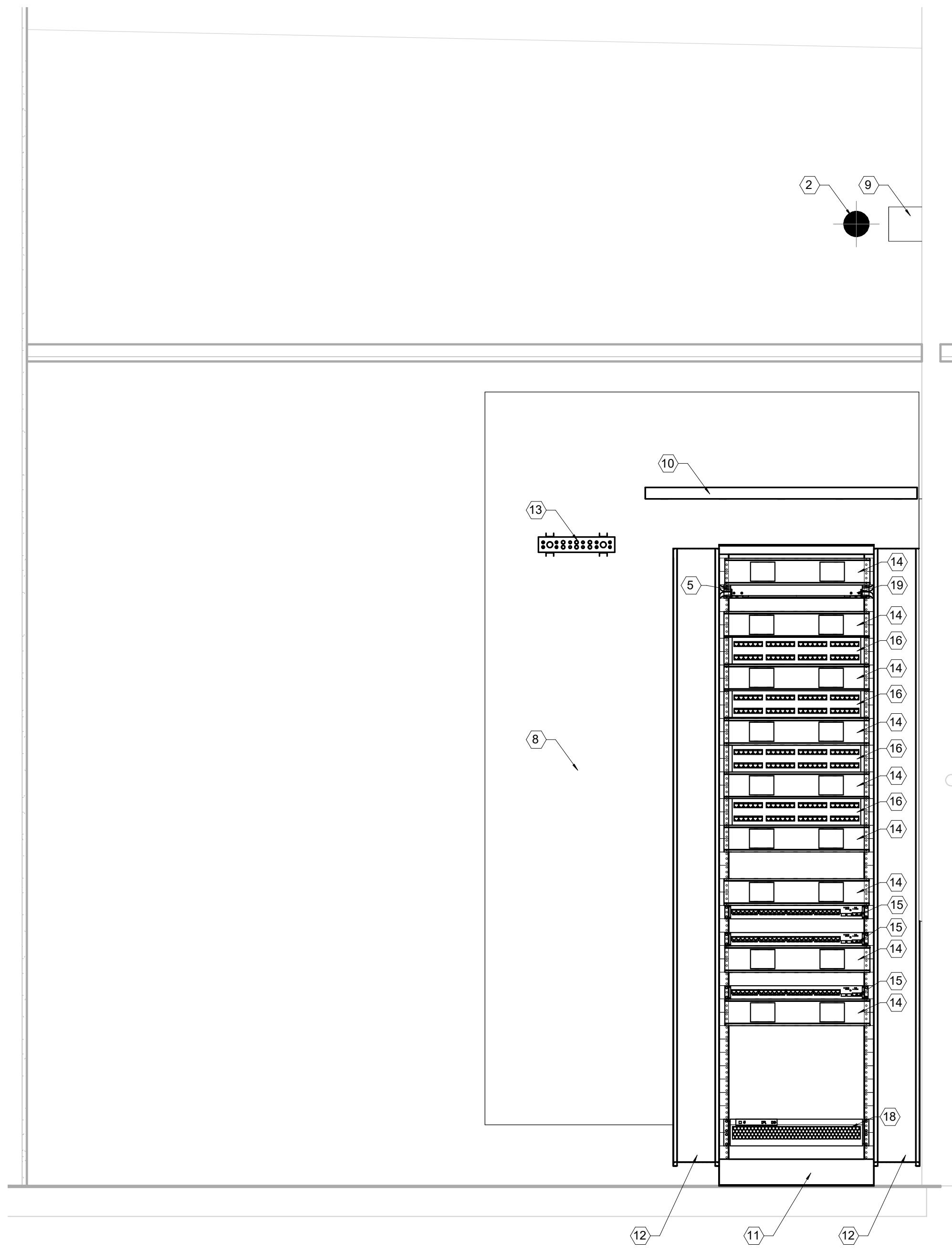
DRAWING INFORMATION:

PROJECT NO:	11738.001
DRAWN BY:	SMA
CHECKED BY:	ADP
APPROVED BY:	ADP
SHEET TITLE:	

**ENLARGED IDF
FLOOR PLAN**

T-401

SHEET OF



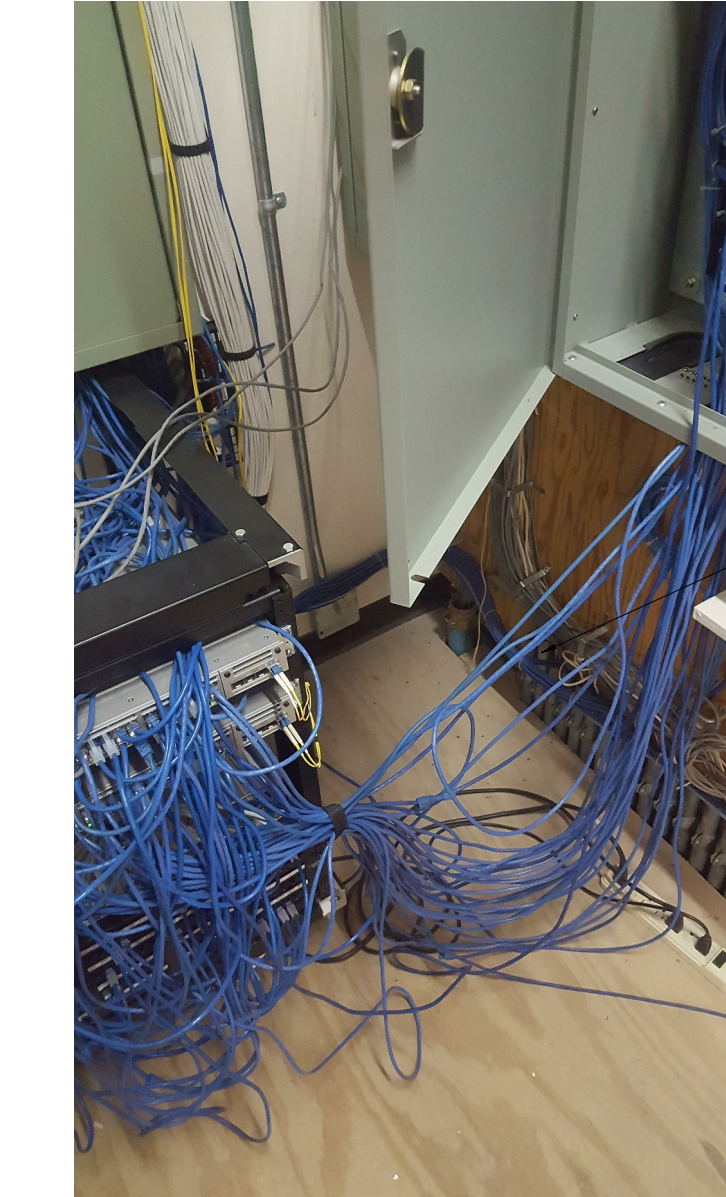
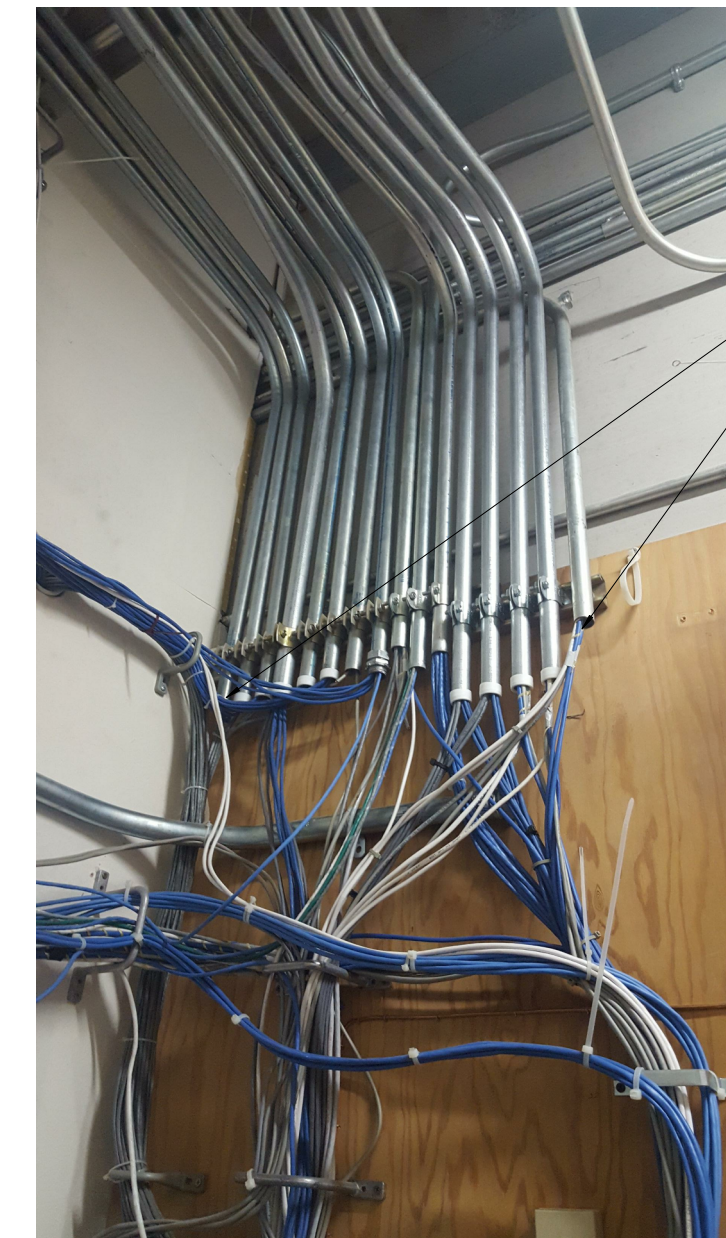
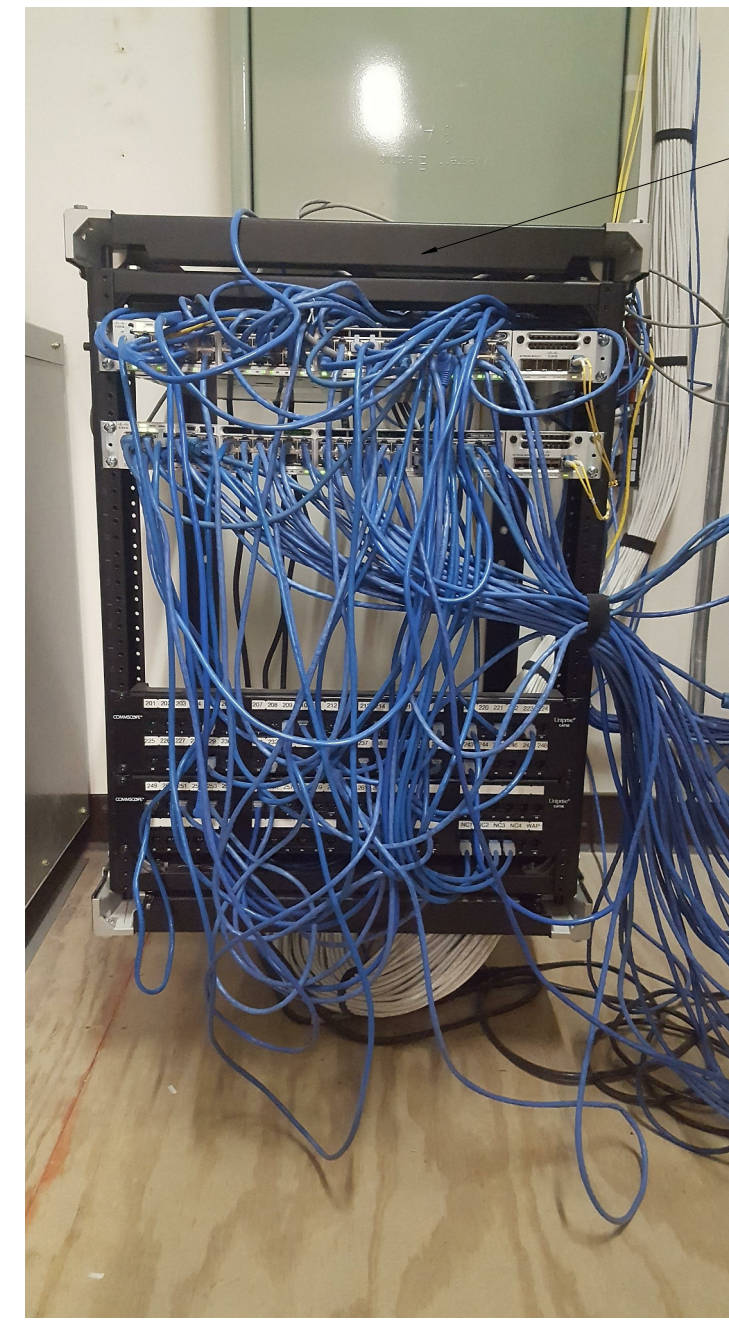
6 NEW IDF RACK ELEVATION - STORAGE 105C
1" = 1'-0"



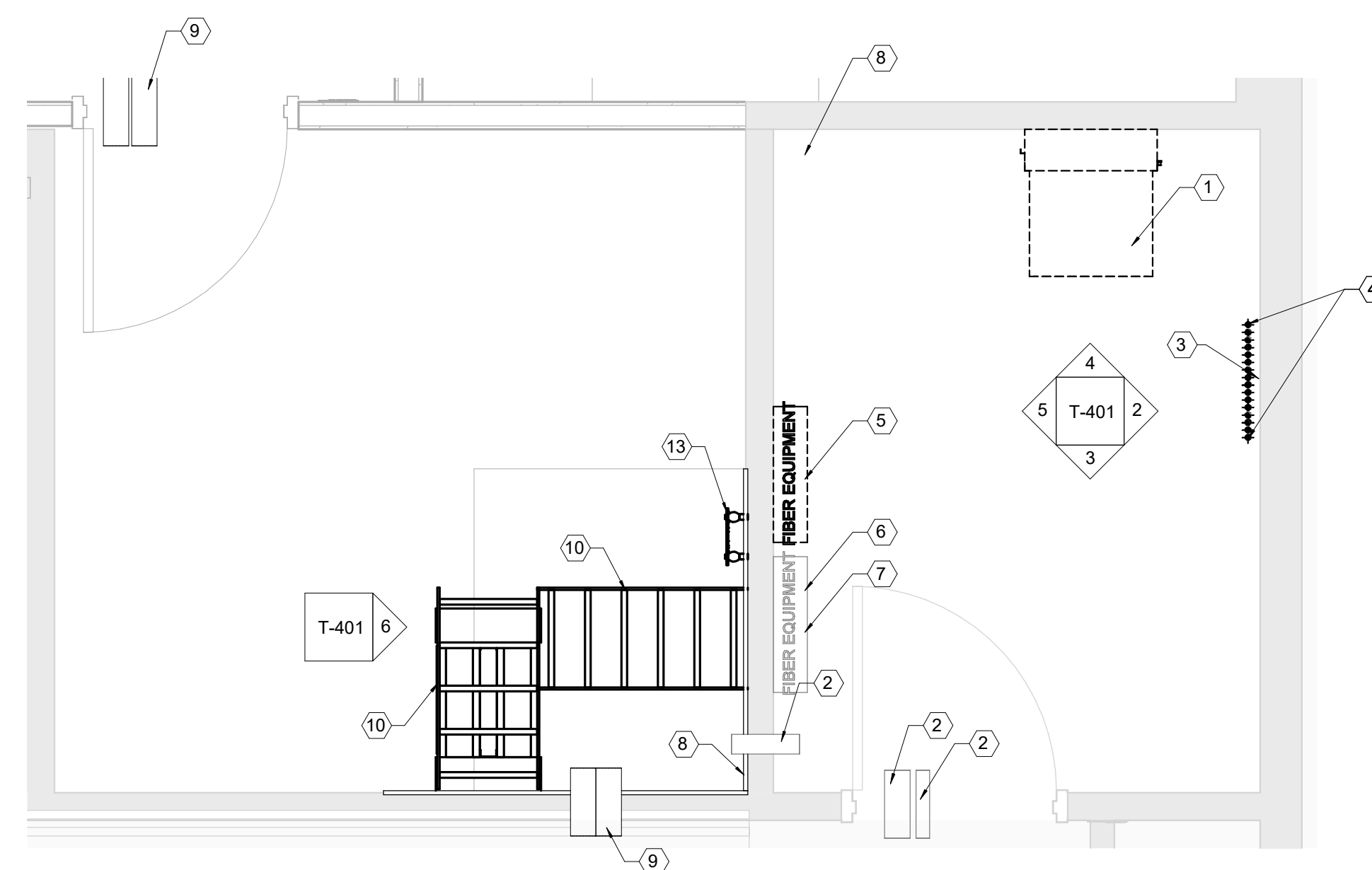
5 EXISTING IDF - WEST WALL
1/2" = 1'-0"



4 EXISTING IDF - NORTH WALL RACK
1/2" = 1'-0"



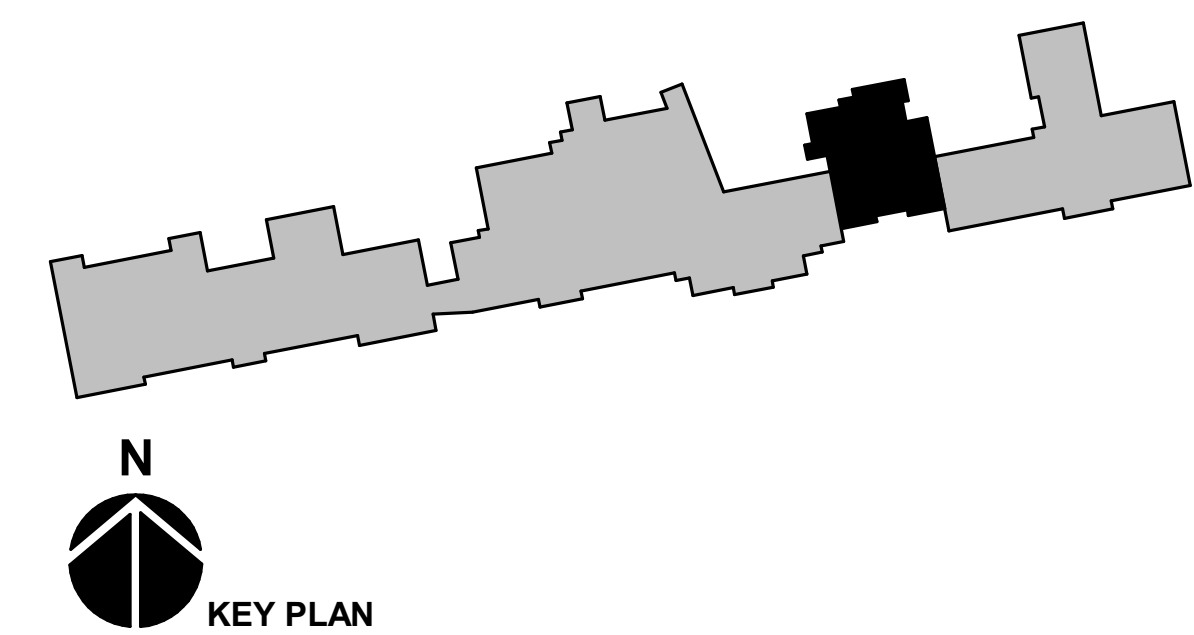
2 EXISTING IDF - EAST WALL
1/2" = 1'-0"



1 IDF ENLARGED FLOOR PLAN
1/2" = 1'-0"



3 EXISTING IDF - SOUTH WALL
1/2" = 1'-0"



N
KEY PLAN

GENERAL NOTES:

1. PROVIDE 3/4" FIRE RATED PLYWOOD AS SHOWN ON DRAWINGS. MOUNT THE 8' FLYWOOD SHEET AT 8" ABOVE FINISHED FLOOR TO ALLOW FOR BASE COVERING. PAINT FLYWOOD AND WALLS ABOVE FLYWOOD WHITE. DO NOT PAINT OVER THE FIRE RATING STAMP ON THE PLYWOOD SHEETS.

KEYED NOTES:

- 1 EXISTING RACK LOCATION. REMOVE EXISTING CABLES FROM EXISTING PATCH PANELS. EXISTING WHITE COLORED CABLING SHALL BE PULLED BACK AND RETERMINATED IN NEW RACK LOCATED IN STORAGE 105C ON RELOCATED PATCH PANELS. EXISTING BLUE COLORED CABLING IS ASSUMED TO BE DEMOLISHED AND SHOULD BE FIELD VERIFIED DURING RENOVATION. REFER TO KEYED NOTES ON THIS SHEET FOR MORE INFORMATION. PROVIDE TESTING AND RELABELING AS NECESSARY. PROVIDE ADDITIONAL PATCH PANELS AS NECESSARY. RELOCATE EXISTING FIBER JUMPER CONNECTIONS TO THE NEW ROOM. OWNER TO RELOCATE EXISTING NETWORK SWITCHES TO NEW RACK LOCATION.
- 2 EXISTING CONDUIT SLEEVE.
- 3 EXISTING BLUE COLORED CABLING SHOWN IN DETAIL 2, EAST WALL PHOTOS TO BE REMOVED DURING RENOVATION. CABLING SHOWN IN WALL MOUNTED ENCLOSURE WITH PATCH PANELS AND PUNCH BLOCKS IS TO BE DEMOLISHED DURING RENOVATION. ENCLOSURE AND EQUIPMENT TO BE ABANDONED.
- 4 EXISTING FLOOR AND CEILING CONDUITS SHOWN IN DETAIL 2, EAST WALL PHOTOS TO BE ABANDONED ONCE ALL CABLING HAS BEEN REMOVED OR RELOCATED TO NEW IDF RACK LOCATED IN STORAGE 105C.
- 5 EXISTING WALL MOUNTED FIBER EQUIPMENT. RELOCATE FIBER TO NEW 1RU FIBER OPTIC PATCH PANEL IN NEW IDF RACK LOCATED IN STORAGE 105C. RETERMINATE AND PROVIDE FIBER JUMPER CONNECTIONS AS NECESSARY TO WALL MOUNTED FIBER EQUIPMENT TO REMAIN IN ELEC ROOM.
- 6 EXISTING WALL MOUNTED FIBER EQUIPMENT TO REMAIN.
- 7 EXISTING WALL MOUNTED FIBER EQUIPMENT FOR BAS EQUIPMENT TO REMAIN.
- 8 EXISTING COAX COILED IN CORNER OF ELEC ROOM SHALL BE PULLED BACK AND RELOCATED TO STORAGE 105C FOR CATV EQUIPMENT.
- 9 PROVIDE (2) NEW 4" CONDUIT SLEEVES FOR CABLING ENTERING ROOM.
- 10 18" WIDE LADDER TRAY MOUNTED HORIZONTALLY AT 7'-6" A.F.F.
- 11 19" X 7" NEW 2-POST EQUIPMENT RACK. SECURE TO FLOOR.
- 12 6" X 7" FRONT AND REAR VERTICAL CABLE MANAGEMENT UNIT.
- 13 GROUNDING BUSBAR MOUNTED AT 7' A.F.F.
- 14 2RU HORIZONTAL CABLE MANAGEMENT UNIT.
- 15 NETWORK SWITCH. PROVIDED BY OWNER.
- 16 2RU 48 PORT FLAT PATCH PANEL FOR DATA CABLE TERMINATION.
- 17 1RU HORIZONTAL OUTLET PLUGGING STRIP. MOUNT IN RACK SO PLUGS FACE REAR OF RACK.
- 18 2RU UPS. PROVIDED BY OWNER.
- 19 1RU FIBER OPTIC PATCH PANEL.

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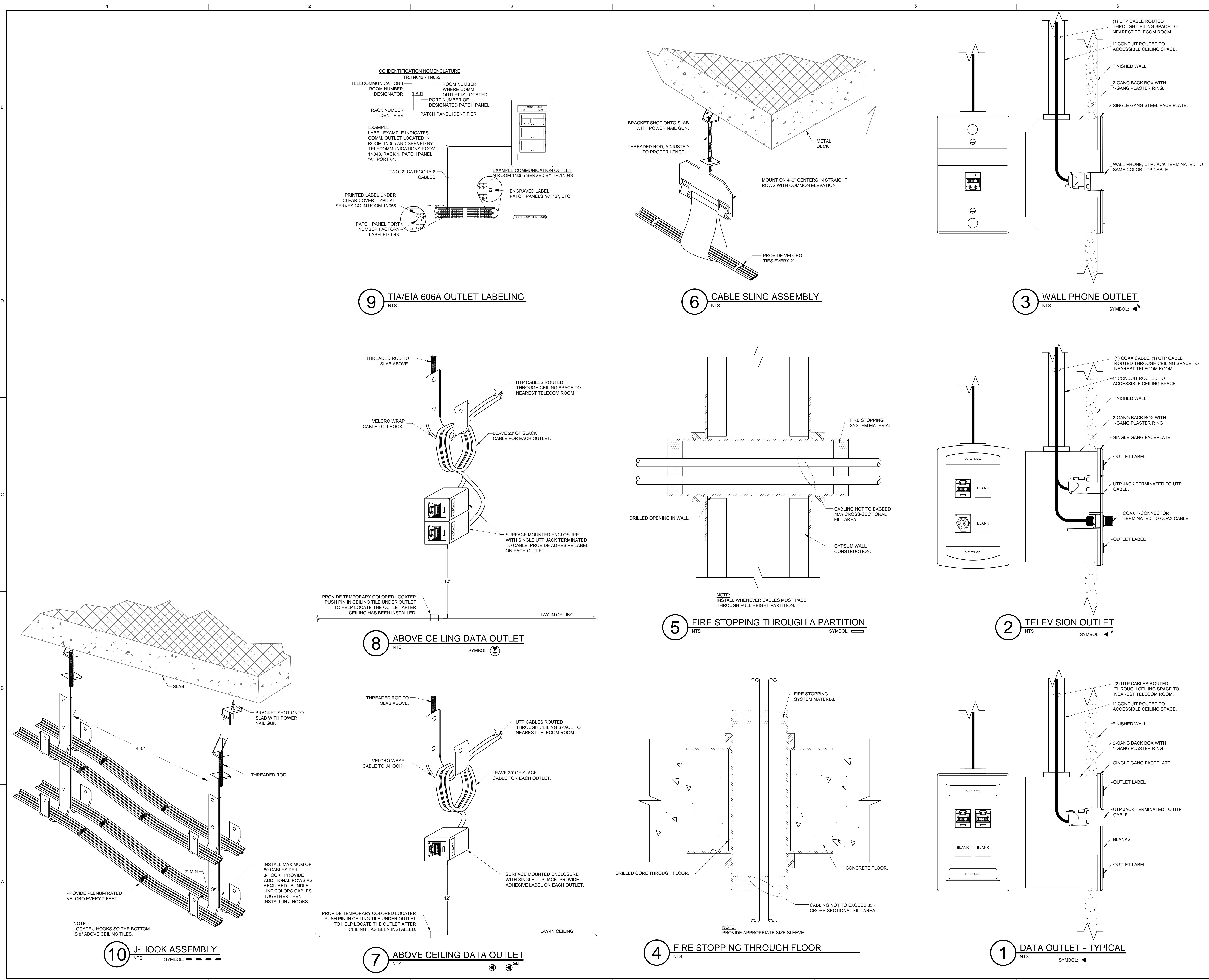
APPROVED BY: ADP

SHEET TITLE:

STRUCTURED
CABLING DETAILS

T-810

SHEET OF



CONSULTANT:

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CHECKED BY: ADP

APPROVED BY: ADP

SHEET TITLE:

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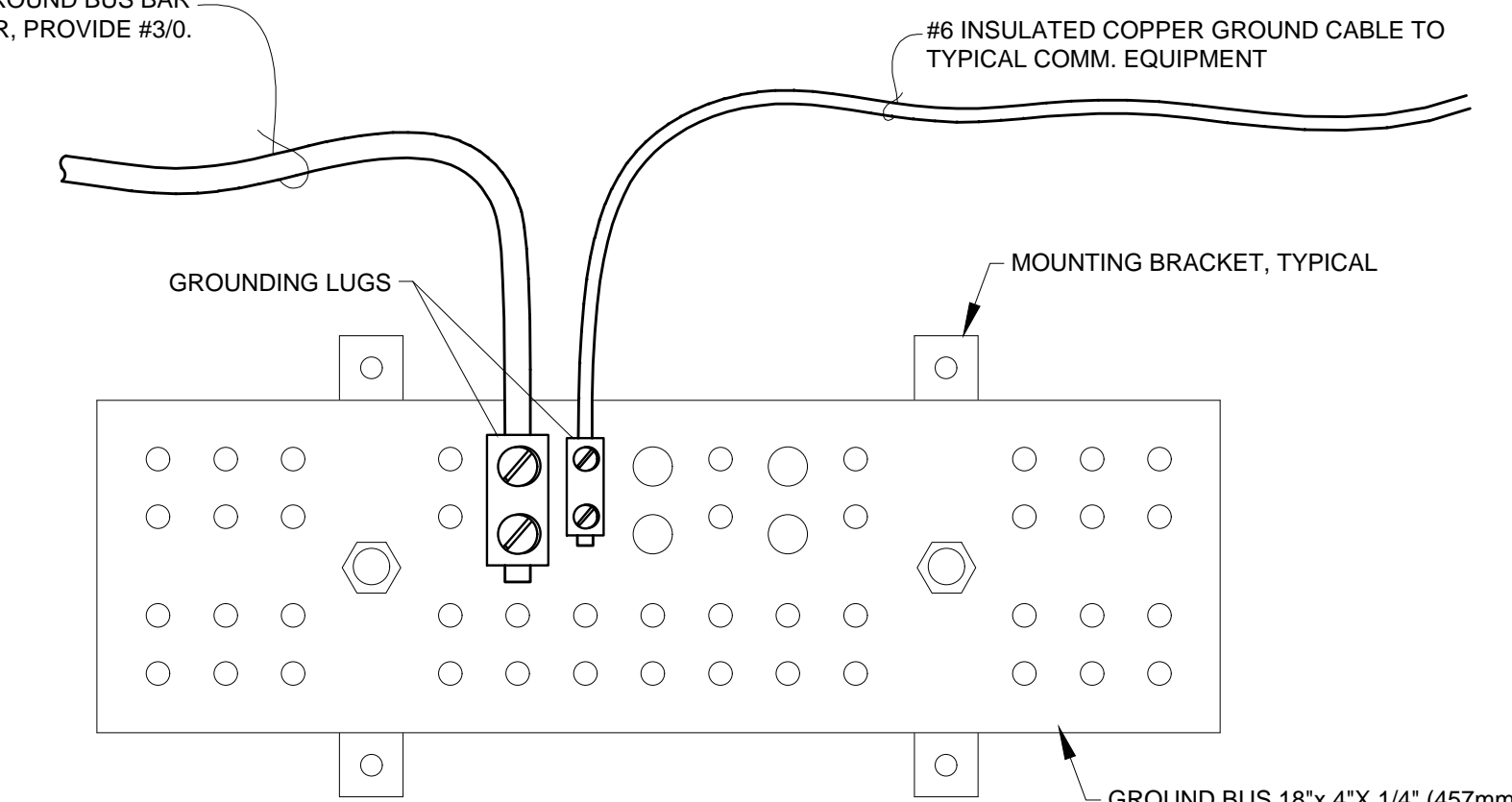
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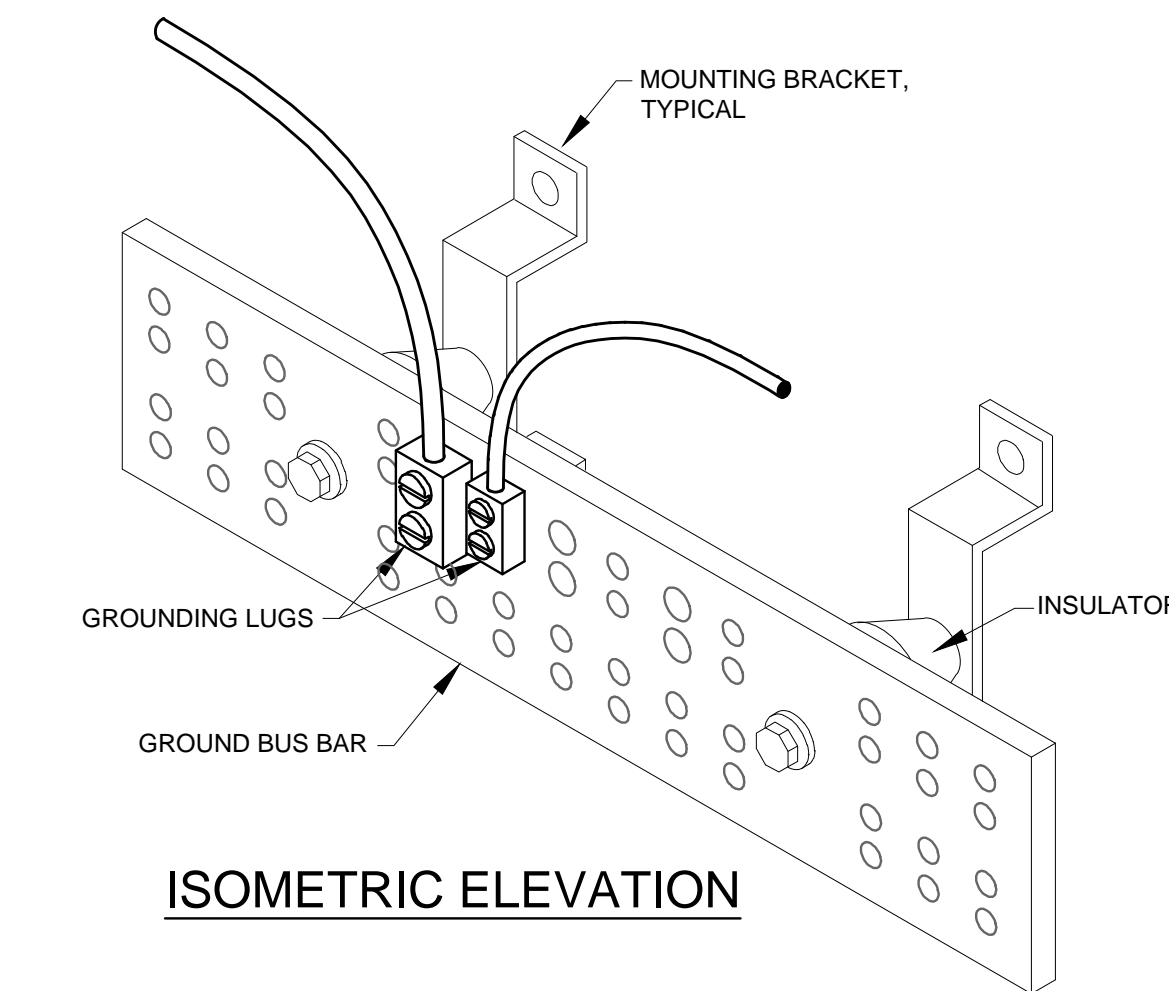
GROUNDING NOTE:

1. ALL GROUND CONNECTIONS SHALL BE MADE WITH HEAVY DUTY 2-HOLE COMPRESSION LUGS WITH STAINLESS STEEL HEX HEAD CAP SCREWS WITH SS LOCKING NUTS (TWO SCREWS AND NUTS PER 2-HOLE LUG).
2. PROVIDE GROUNDING BUSBARS IN ALL COMMUNICATION CLOSETS. GROUND MAIN BUSBAR TO BUILDING MAIN ELECTRICAL SERVICE GROUND WITH #6 AWG INSULATED STRANDED COPPER GROUNDING CONDUCTOR AND #10 BETWEEN BUSBARS. RUN CONDUCTOR FROM BUSBAR LOCATION TO BUILDING SERVICE GROUND IN EMT CONDUIT. PROVIDE INSULATED GROUNDING BUSHING - MALLEABLE IRON, STEEL CITY #6G-807 AT CONDUIT ENDS AND GROUND PER NEC. GROUNDING TO BUILDING STRUCTURE, CONDUITS, UTILITY PIPING, OR ELECTRICAL SUBPANELS IN LIEU OF BONDING TO BUILDING MAIN ELECTRICAL SERVICE GROUND IS NOT ACCEPTABLE.
3. GROUND ALL COMMUNICATION RACKS WITH #6 AWG INSULATED STRANDED COPPER GROUNDING CONDUCTOR TO MAIN GROUNDING BUSBAR. GROUND RACKS INDIVIDUALLY TO BUSBAR (DO NOT LOOP GROUNDS). ROUTE CONDUCTOR ALONG RACK REAR AND IN CABLE RUNWAY TO GROUNDING BUSBAR.
4. GROUND EACH CONDUIT AND CONDUIT SUPPORTS STRUTS IN ALL COMMUNICATIONS ROOMS WITH #6 AWG INSULATED STRANDED COPPER GROUNDING CONDUCTOR TO GROUNDING BUSBAR. ROUTE CONDUCTOR IN CABLE RUNWAY TO GROUNDING BUSBAR.
5. GROUND CABLE RUNWAY WITH #6 AWG INSULATED STRANDED COPPER GROUNDING CONDUCTOR TO GROUNDING BUSBAR. ROUTE CONDUCTOR IN CABLE RUNWAY TO GROUNDING BUSBAR.
6. MARK CONDUCTORS 6" FROM TERMINATION WITH GREEN TAPE.

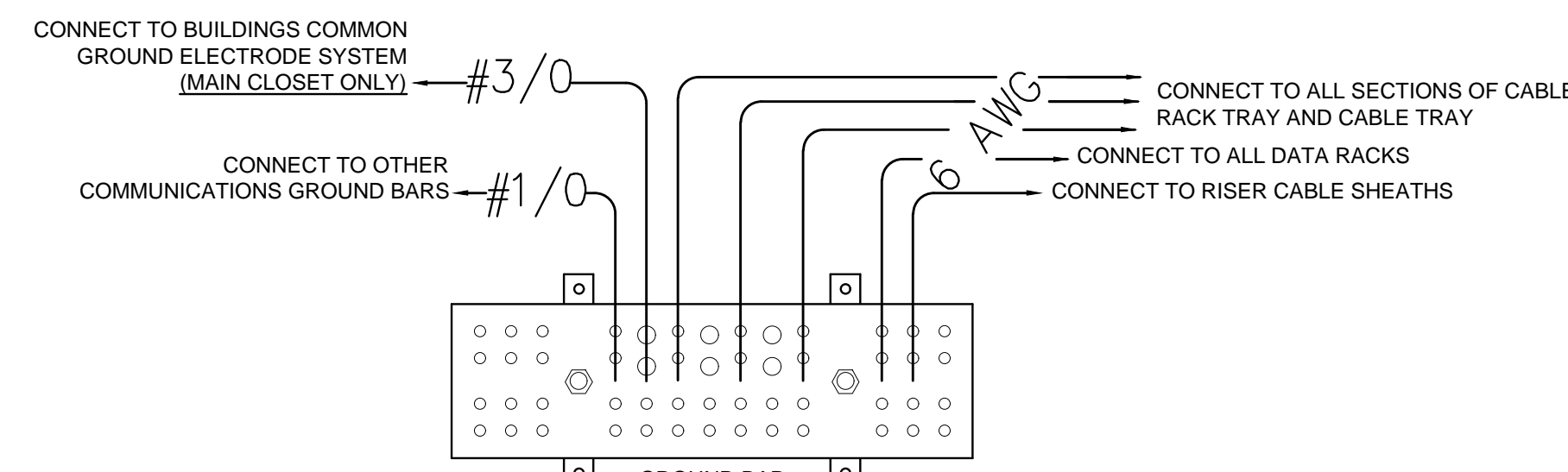
WHEN GROUNDING MAIN GROUND BUS BAR FROM CER, PROVIDE #30.



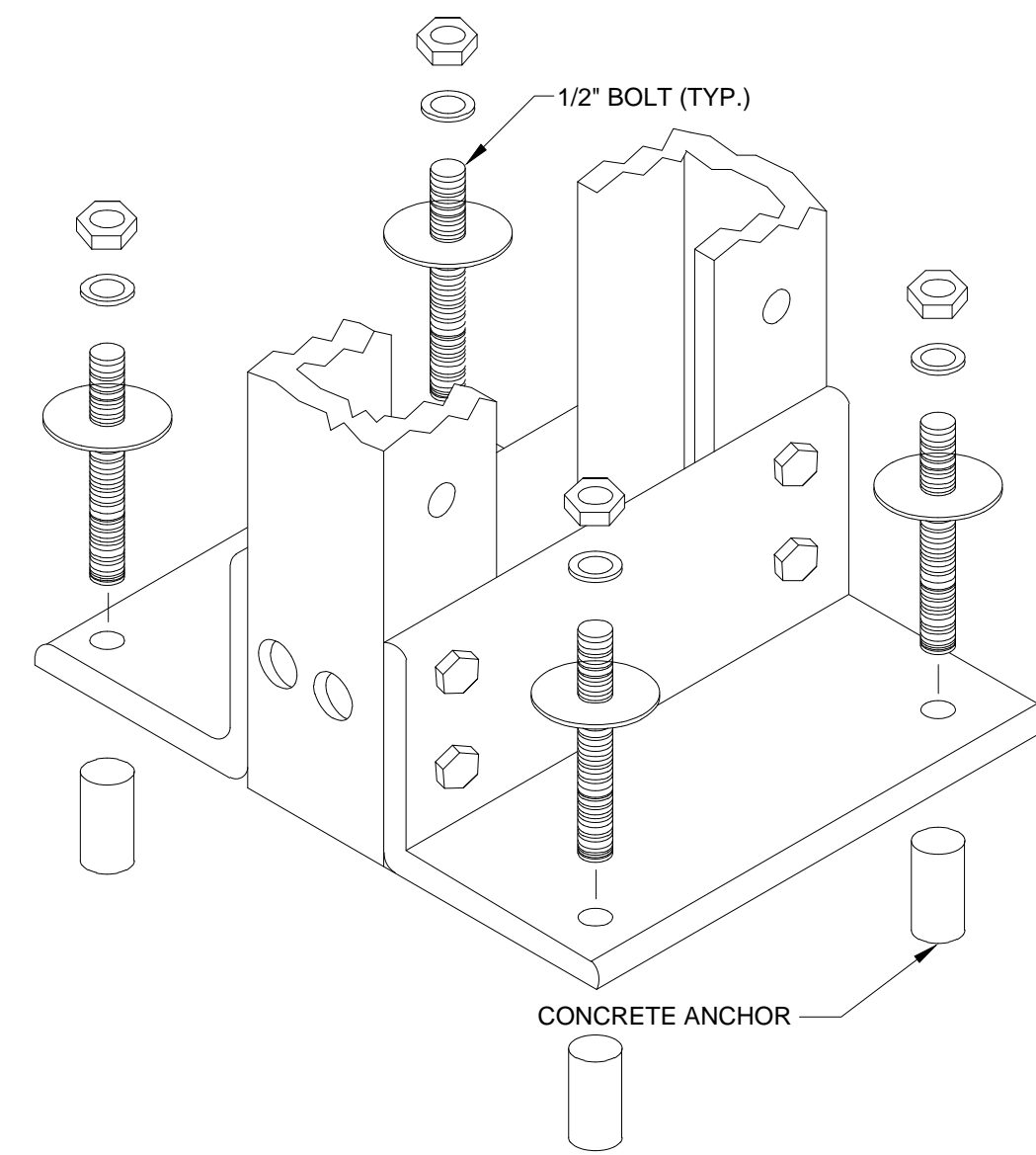
FRONT ELEVATION



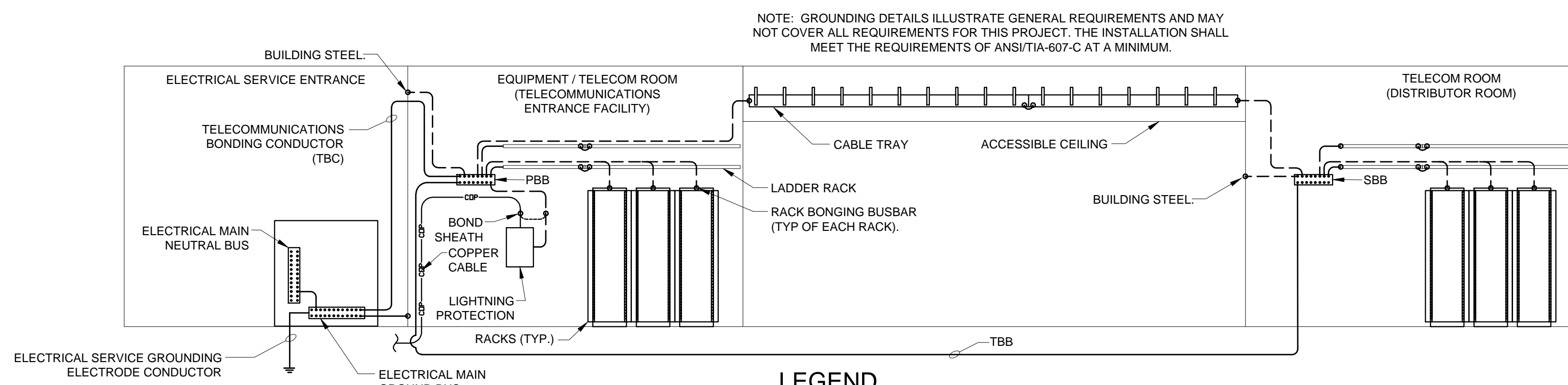
ISOMETRIC ELEVATION



2 GROUND BAR DETAIL
NTS



4 TYPICAL RACK TO FLOOR ATTACHMENT
NTS



LEGEND

--- 6 AWG STRANDED, GREEN INSULATED GROUND WIRE
--- COP --- OSP COPPER CABLE

TBB - MUST BE CONTINUOUS WITH EXOTHERMIC WELD TABS OR INDIVIDUAL HOME RUNS. NOT DASHY CHAINED SIZING BASED ON LENGTH. SEE ANS/TIA-607-C.

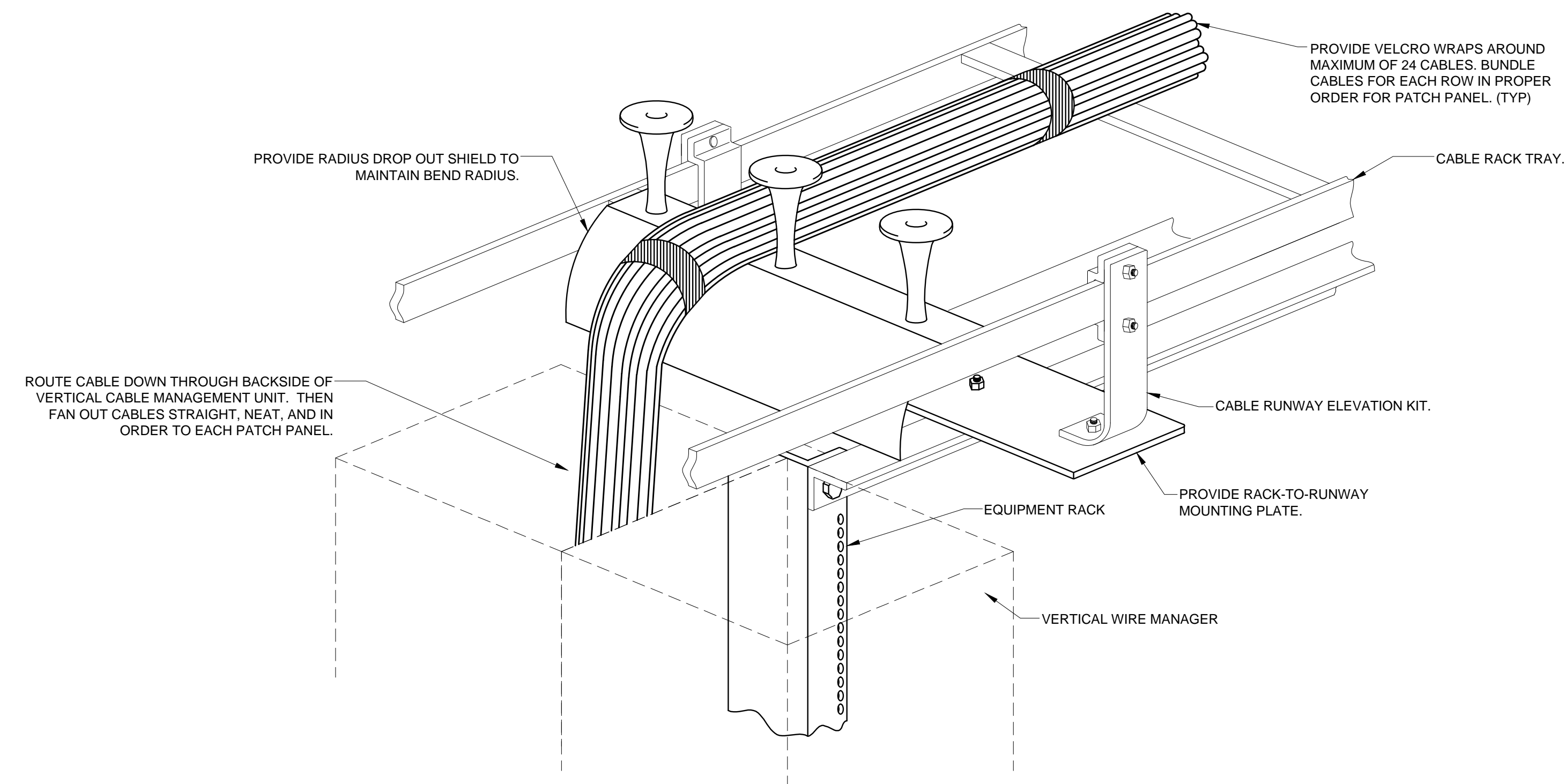
PBB - PRIMARY BONDING BUSBAR.

SBB - SECONDARY BONDING BUSBAR.

TBC - TELECOMMUNICATIONS BONDING CONDUCTOR - SAME SIZE AS LARGEST.

BBC - BACKBONE BONDING CONDUCTOR - SAME SIZE AS LARGEST SBB.

3 SAMPLE GROUNDING SYSTEM
NTS



1 TYPICAL CABLE RACK TRAY OVER RACK ELEVATION ASSEMBLY
NTS

SYMBOL: [Symbol]

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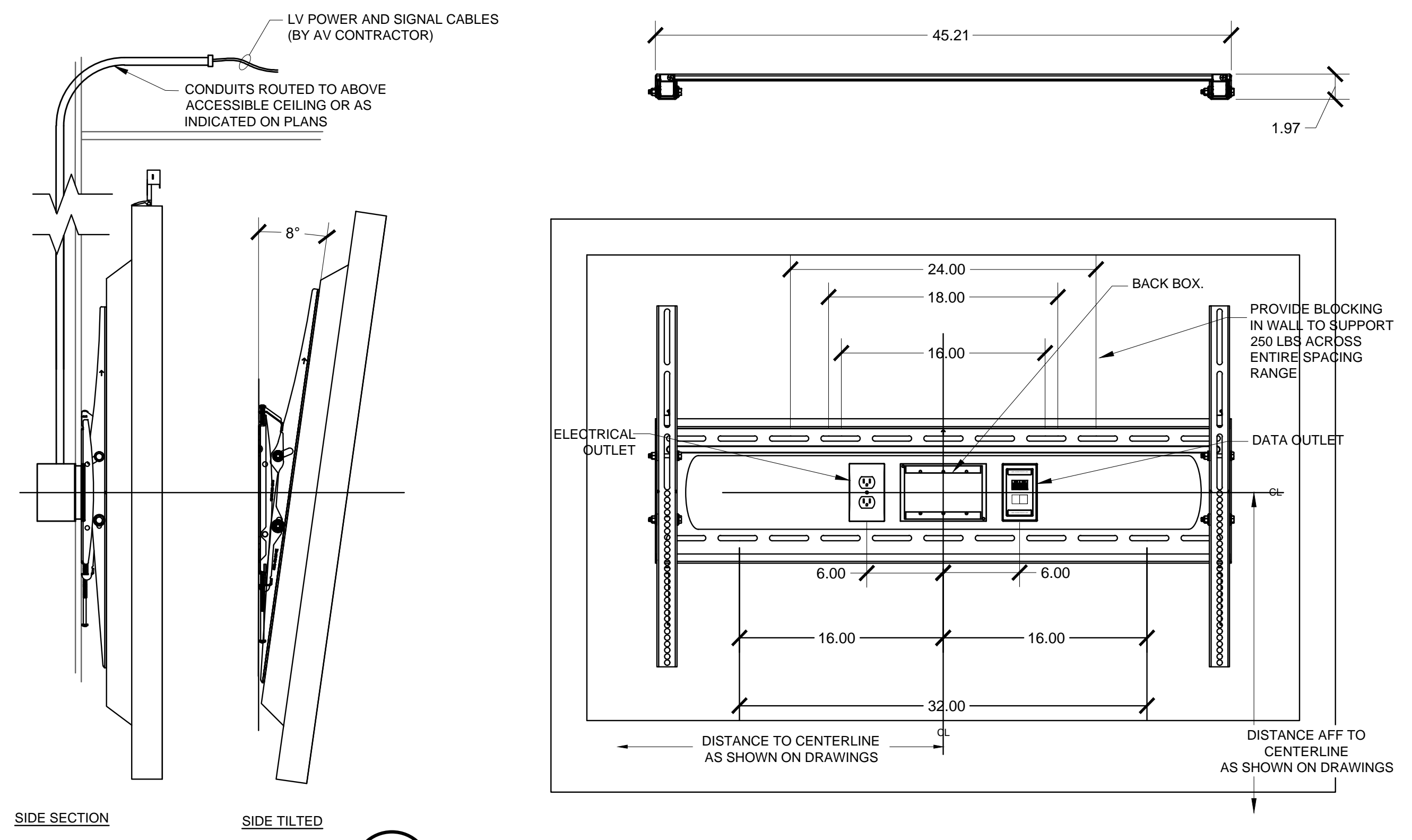
DRAWING INFORMATION:

PROJECT NO:	11738.001
DRAWN BY:	SMA
CHECKED BY:	ADP
APPROVED BY:	ADP
SHEET TITLE:	

**AUDIO-VISUAL
DETAILS**

T-830

SHEET OF

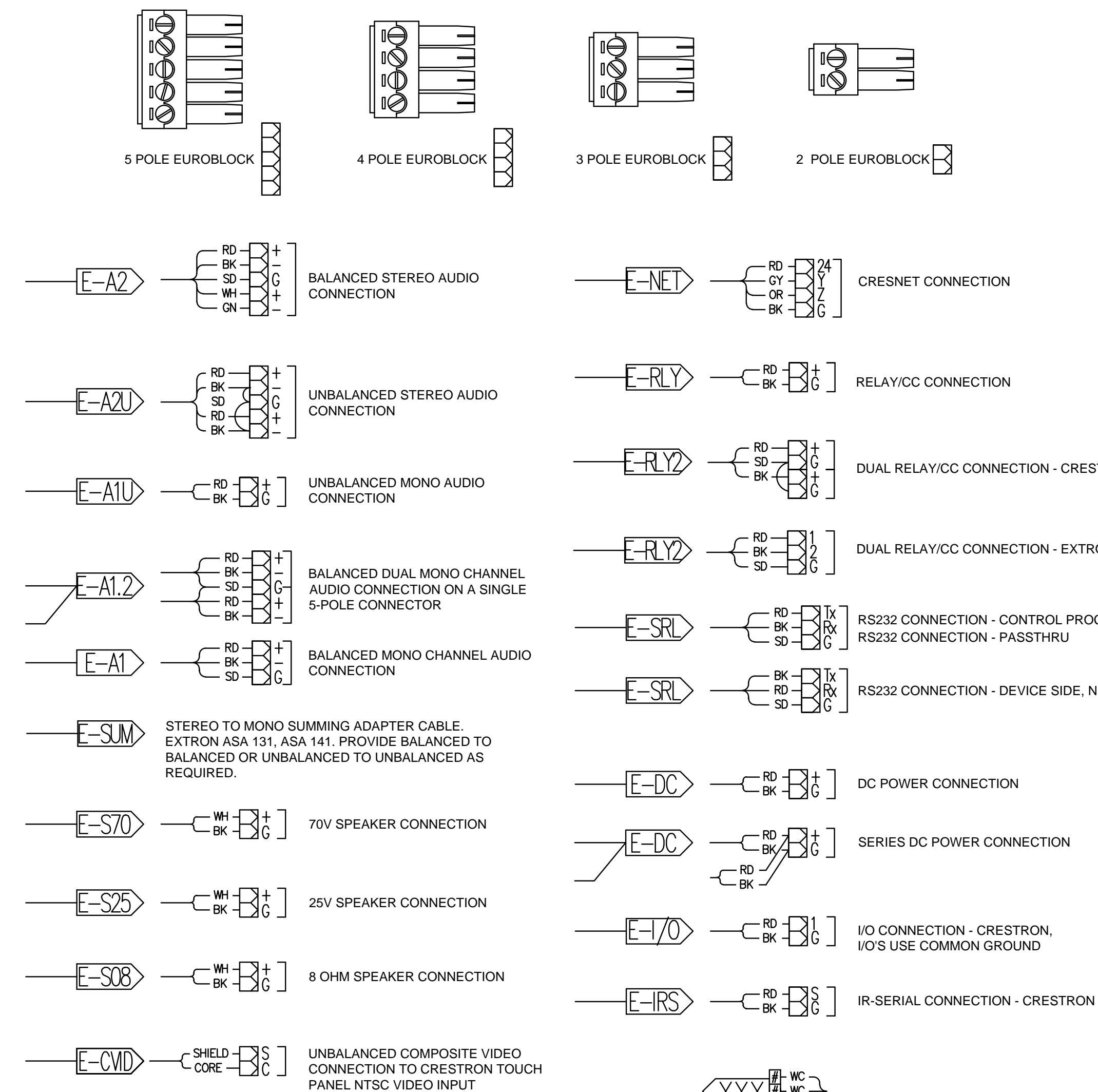


1 FLAT PANEL DISPLAY ASSEMBLY
NTS
SYMBOL:

ROOM NAME	ROOM NUMBER	FLOOR PLAN	SCHEMATIC DIAGRAM	ROOM TYPE
COLLABORATION - EAST WALL	103C	1/T-101	1/T-851	TYPICAL RELOCATED DIGITAL SIGNAGE LOCATION
COLLABORATION - WEST WALL	103C	1/T-101	1/T-851	TYPICAL RELOCATED DIGITAL SIGNAGE LOCATION
CONF ROOM	109	1/T-101	2/T-851	CONFERENCE ROOM 109
STUDENT VETERANS LOUNGE	110A	1/T-101	3/T-851	STUDENT VETERANS LOUNGE
CONFERENCE ROOM	104B	1/T-101	4/T-852	CONFERENCE ROOM 104B
COLLABORATION	103	1/T-101	5/T-852	AV COLLABORATION

GENERAL NOTES FOR AV SCHEMATICS SHEETS:

- MODELS SHOWN ARE BASED UPON MANUFACTURER'S PUBLISHED DATA AT TIME OF DRAWING. ACTUAL MODELS AVAILABLE MAY VARY. FOR ANY DEVIATIONS FROM THE SPECIFIED MANUFACTURER AND/OR MODEL, THE CONTRACTOR SHALL SECURE APPROVAL FROM THE APPROPRIATE PARTY.
- COORDINATE ALL GROMMET HOLE AND TABLE BOX CUT-OUTS DIRECTLY WITH FURNITURE AND MILLWORK INSTALLERS. PROVIDE CUT-OUT DIMENSIONS, TEMPLATES AND OTHER REQUIREMENTS AS REQUESTED.
- FOR RX/TX DEVICES: CONFIGURE FOR P&E OR REMOTE POWERING FROM OPPOSITE DEVICE (AS APPLICABLE) WHERE DIRECT POWERING IS NOT SHOWN.
- DO NOT EXCEED MANUFACTURER'S PUBLISHED MAXIMUM DISTANCES FOR ALL CABLE BETWEEN TX/RX DEVICES. USE ONLY CABLE AND CONNECTORS APPROVED BY THE DEVICE MANUFACTURER.
- CONNECTOR AND WIRING REQUIREMENTS ARE BASED UPON MANUFACTURER'S PUBLISHED DATA AT TIME OF DRAWING. ACTUAL REQUIREMENTS MAY VARY. CONTRACTOR IS RESPONSIBLE TO PROVIDE APPROPRIATE CONNECTORS, ADAPTERS AND WIRING FOR INTERFACING DEVICES.
- "MFG" INDICATES CONNECTOR AND/OR WIRING CONFIGURATION AND ASSOCIATED CABLE PROVIDED BY OR AS DIRECTED BY MANUFACTURER.
- SIGNAL FLOW IS GENERALLY FROM LEFT TO RIGHT UNLESS OTHERWISE INDICATED. BI-DIRECTIONAL SIGNAL CONNECTIONS AND POWER CONNECTIONS MAY APPEAR ON EITHER THE LEFT OR RIGHT SIDE OF DEVICES AND PLATES.
- COORDINATE ALL LAN REQUIREMENTS (IP ADDRESS ASSIGNMENT, NETWORK ACCESS, VLAN SET-UP) DIRECTLY WITH THE OWNER'S IT PERSONNEL.
- PROVIDE ALL ACCESSORIES AND MISCELLANEOUS EQUIPMENT REQUIRED TO FORM A COMPLETE AND OPERATIONAL SYSTEM.
- LABELING OF INPUTS, OUTPUTS AND OTHER CONNECTIONS ON DEVICES IS INTENDED TO CONVEY DESIGN INTENT, AND MAY NOT REFLECT ACTUAL DEVICE LABELING.
- PROVIDE ALL CONTROL SYSTEM PROGRAMMING REQUIRED TO PROVIDE FUNCTIONAL REQUIREMENTS DESCRIBED ON SHEETS AND AS NOTED IN SPECIFICATIONS.
- ALL CABLE NOT INSTALLED INSIDE RATED CEILING ENCLOSURES, BACK BOXES OR CONDUIT SHALL BE CM PLENUM RATED.
- ALL CABLE RUN IN WET LOCATIONS, INCLUDING BUT NOT LIMITED TO CONDUIT UNDER SLAB, SHALL BE INDOOR/OUTDOOR RATED. PROVIDE INDOOR/OUTDOOR CM RATED CABLE FOR ANY INSTANCES WHERE CABLE TRANSITIONS FROM WET LOCATIONS TO PLENUM SPACES.
- PROVIDE SECURE MOUNTINGS OF ALL DEVICES NOTED BEHIND DISPLAYS. DOUBLE BACK TAPE OR VELCRO TAPE IS NOT ACCEPTABLE.
- CONNECTORS AND WIRING SHOWN ON DRAWINGS AND DETAILS ARE BASED UPON INDUSTRY STANDARD PRACTICES AND MANUFACTURER'S PUBLISHED DATA AT TIME OF DRAWING. ACTUAL CONNECTORS AND WIRING MAY VARY FROM WHAT IS SHOWN ON THESE DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR COORDINATING FINAL CONNECTOR AND WIRING REQUIREMENTS WITH INSTALLED DEVICE AND CABLING.
- PIN-OUTS: REFER TO CONNECTING DEVICE MANUFACTURER'S LITERATURE FOR ACTUAL PIN-OUT WIRING.
- ALL POWER CONNECTIONS TO DEVICES ARE TO BE USING EQUIPMENT MANUFACTURER'S POWER CORDS AND CONNECTORS. LICENSED ELECTRICAL CONTRACTOR TO PROVIDE SERVICE TO ALL POWER OUTLETS SHOWN ON DRAWINGS THAT ARE NOT POWERED BY A WHIP OR CORD.



1 "E"-TYPE CONNECTOR DETAILS
NO SCALE

CUSTOM EUROBLOCK CONNECTION. WIRE AS SHOWN ON DRAWINGS OR AS DIRECTED BY MANUFACTURER. "WC" = WIRE COLOR

CABLE SCHEDULE			
CABLE	DESCRIPTION	MANUFACTURER	MODEL OR SERIES
HDMI	PRE-TERMINATED HDMI HIGH SPEED CABLE FOR PATCHING	CRESTRON	AS REQUIRED BY PATCHING DISTANCE
VGA-A	PRE-TERMINATED VGA CABLE WITH STEREO AUDIO	EXTRON	VGA-A M-M MD SERIES
RGBHV	MINI HIGH RESOLUTION MULTI-CORE CABLE FOR RGBHV	EXTRON	MHR-5
VID	SINGLE CORE COAXIAL CABLE FOR COMPOSITE VIDEO	SHEERWIRE	SVCC59R/SVCC59P
AUDIO	CABLE FOR BALANCED AND UNBALANCED AUDIO CONNECTIONS	WEST PENN	77291/D25291
AUDIO#	MULTI-PAIR CABLE FOR BALANCED AUDIO CONNECTIONS. # = NUMBER OF INDIVIDUALLY SHIELDED PAIRS	WEST PENN	D43-SERIES / D2543-SERIES
SPEAKER	SPEAKER CABLE FOR CONSTANT VOLTAGE (70V, 25V) DISTRIBUTED SPEAKERS SYSTEMS	WEST PENN	224/5224B
CAT5E/6A	CATEGORY 5E, 6 OR 6A RATED CABLE	MATCH STRUCTURED CABLING PATCH CABLE SPEC WHEN USED FOR DATA. BY CRESTRON WHEN USED FOR DIGITAL SIGNAL TRANSMISSION.	
CAT5E/6-S	CATEGORY 5E OR 6A RATED CABLE, SHIELDED	CRESTRON	
CTL1	CONTROL CABLE FOR CRESNET AND RELAY CONNECTIONS	CRESTRON	CRESNET SERIES
RS232	RS232 SERIAL CONTROL CABLE	WEST PENN	232 / 25232B
LV PWR	LV POWER CABLE	AS PROVIDED BY OR SPECIFIED BY EQUIPMENT MANUFACTURER	
PWR	POWER CABLE		
AUDIO-E	CABLE FOR EXPOSED AUDIO CABLE CONNECTIONS	CANARE	L-466S
DM8G	CRESTRON DM8G CABLE	CRESTRON	DM 8G CABLE
USB	PRE-TERMINATED USB 3.0 CABLE FOR PATCHING. PROVIDE WITH CONNECTORS AS REQUIRED.	EXTRON	USB CFG
HDMI/DVI	PRE-TERMINATED HDMI TO DVI INTERFACE CABLE	CRESTRON	CBL-HD-DVI SERIES. LENGTH AS REQUIRED
DVI	PRE-TERMINATED DVI INTERFACE CABLE	CRESTRON	CBL-DVI SERIES. LENGTH AS REQUIRED
IR	CABLE FOR IR RECEIVER AND EMITTER CONNECTIONS	WEST PENN	230 / 252231B

CONNECTOR SCHEDULE			
CONNECTOR	DESCRIPTION	MANUFACTURER	MODEL OR SERIES
HDMI	PRE-TERMINATED HDMI	SEE CABLE SCHEDULE	
HDMI THRU	HDMI PASS-THRU	RCI	BTXCD-HDMIFFP
RJ45	RJ45 8P8C CRIMP-STYLE CONNECTOR. PROVIDE SHIELDED CONNECTOR WHERE CONNECTING CABLE IS SHIELDED	MATCH STRUCTURED CABLING PATCH CABLE SPEC WHEN USED FOR DATA BY CRESTRON WHEN USED FOR DIGITAL SIGNAL TRANSMISSION	
E-XX	EUROBLOCK. SEE CONNECTOR DETAILS FOR SPECIFIC TYPES AND CONFIGURATIONS	EXTRON/CRESTRON	3.5MM CAPTIVE SCREW
BNC	BNC CONNECTORS. TERMINATE AS INDICATED BY CONNECTOR DETAILS	EXTRON/CRESTRON	BNC MALE MHR CRIMP OR COMPRESSION CONNECTORS
MINI	3.5MM MINI-TRS	CANARE	F12
RCA	RCA CONNECTOR. (X) IS # OF CONNECTORS	EXTRON	3.5MM MINI-STEREO-HQ COMPRESSION RCA CONNECTOR
BD15	15 PIN VGA-HD15	EXTRON	15HD
DB9	DB-9 (RS232)	EXTRON	9D
DC	DC POWER CONNECTOR	PROVIDED BY OR AS SPECIFIED BY EQUIPMENT MANUFACTURER	
XLR	#-PIN XLR	NEUTRIK	MALE - NC1MXX FEMALE PLATE - NC4FD-LX
TR	0.25" TRS	NEUTRIK	MALE - NP3X FEMALE PLATE - NJ3FP6C
USB	PRE-TERMINATED USB	SEE CABLE SCHEDULE	
SCREW	SCREW TERMINAL	TERMINATE PER DEVICE MFR INSTRUCTIONS	
SP4	4-POLE SPEAKER CONNECTOR	NEUTRIK	NEUTRIK SPEAKER
DVI	PRE-TERMINATED DVI-I/DVI-D	SEE CABLE SCHEDULE	
IR	RJ45 TO DB9 INTERFACE CONNECTOR	TRIPP LITE	B090-A9M DB9M-RJ45
IRP	STICK-ON IR PROBE WITH COVER		
SB2	SPEAKER TERMINAL-DUAL BINDING POST TYPE	NEUTRIK	NY508
SVID	(1) SVID CONNECTOR	EXTRON	SVID MALE
DISP	DISPLAY PORT	EXTRON	DISPLAY PORT MALE
PHOENIX	PHOENIX CONNECTOR	EXTRON/CRESTRON	CAPTIVE SCREW
F	F CONNECTOR	ANY	COMPRESSION TYPE

AUDIO-VISUAL DRAWING LEGEND		
SYMBOL	DESCRIPTION	NOTES
#	AUDIO-VISUAL SYSTEM KEYNOTE TAG. INSTRUCTIONS FOR AUDIOVISUAL CONTRACTOR	SEE SINGLE LINE DRAWINGS
DEVICE NAME XXX	AUDIO-VISUAL SYSTEM DEVICE. XXX INDICATE DEVICE CONNECTIONS	SEE SINGLE LINE DRAWINGS
DEVICE NAME XXX XXX	AUDIO-VISUAL SYSTEM DEVICE. XXX INDICATE DEVICE CONNECTIONS. DASHED FRAME INDICATES DEVICE FURNISHED BY OWNER/OTHER	SEE SINGLE LINE DRAWINGS
WALL PLATE	AUDIO-VISUAL SYSTEM WALL PLATE. PLATES MAY INCORPORATE DEVICES AND/OR PLATE CONNECTORS AS INDICATED ON SINGLE LINE DRAWINGS	SEE SINGLE LINE DRAWINGS
XX	CABLE CONNECTOR, MALE	SEE SINGLE LINE DRAWING AND CABLE/CONNECTOR SCHEDULES
XXI	CABLE CONNECTOR, FEMALE	SEE SINGLE LINE DRAWING AND CABLE/CONNECTOR SCHEDULES
DATA OUTLET SEE DATA/VOICE DRAWINGS	LAN OUTLET	-
POWER OUTLET SEE ELECTRICAL DRAWINGS	AC POWER OUTLET (INSIDE ANOTHER DEVICE SUCH AS A TABLE TOP BOX)	-
LOCATION	DEMARCATION LINES IDENTIFYING RELATIVE LOCATION OF ROOMS, FURNITURE, WALLS, CEILING SPACE, CONDUIT AND BACK BOXES FOR THE PURPOSES OF DEVICE LOCATION AND CABLE ROUTING	SEE PLAN LEGEND AND APPLICABLE DETAILS

hord | coplan | macht

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Denver, CO 80231
(888)334-5831

PROJECT:

CROSSROADS BUILDING RENOVATION

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

OWNER:

LARAMIE COUNTY COMMUNITY COLLEGE

1400 EAST COLLEGE DRIVE
CHEYENNE, WY 82007

ISSUE:

12.22.2017 CONTRACT DOCUMENTS

DRAWING INFORMATION:

PROJECT NO: 11738.001

DRAWN BY: SMA

CHECKED BY: ADP

APPROVED BY: ADP

SHEET TITLE:

AUDIO VISUAL SCHEMATIC DIAGRAMS

T-850

SHEET OF

CONSULTANT:

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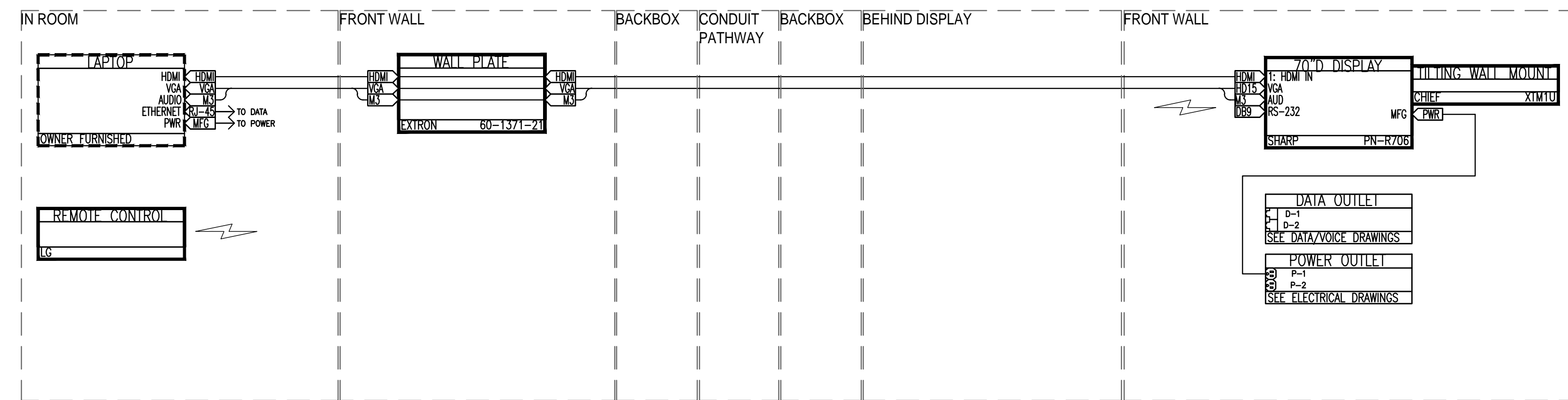
APPROVED BY: ADP

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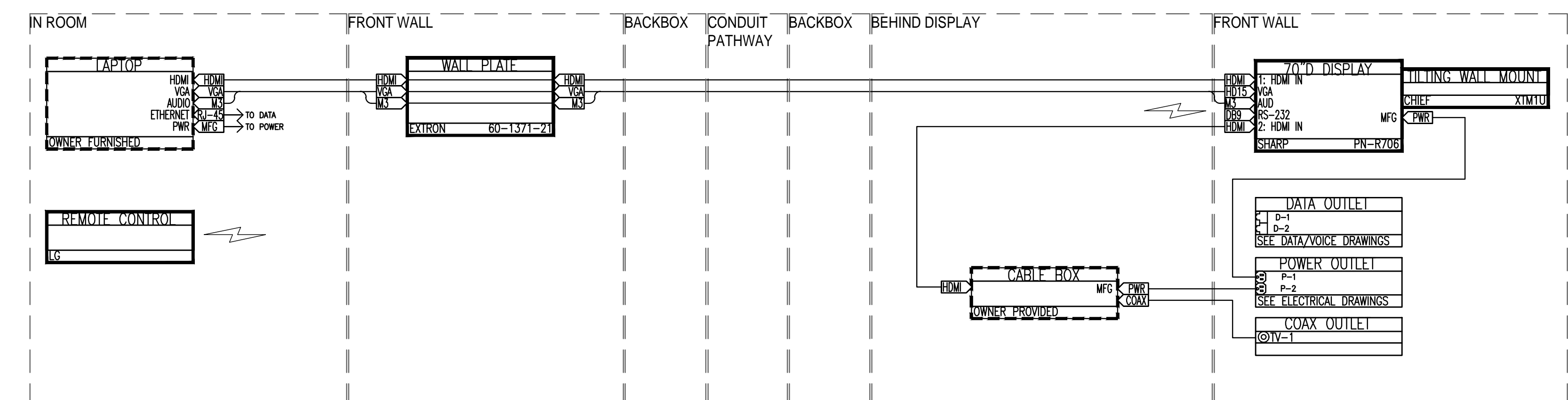
AUDIO VISUAL
SCHEMATIC
DIAGRAMS

T-851

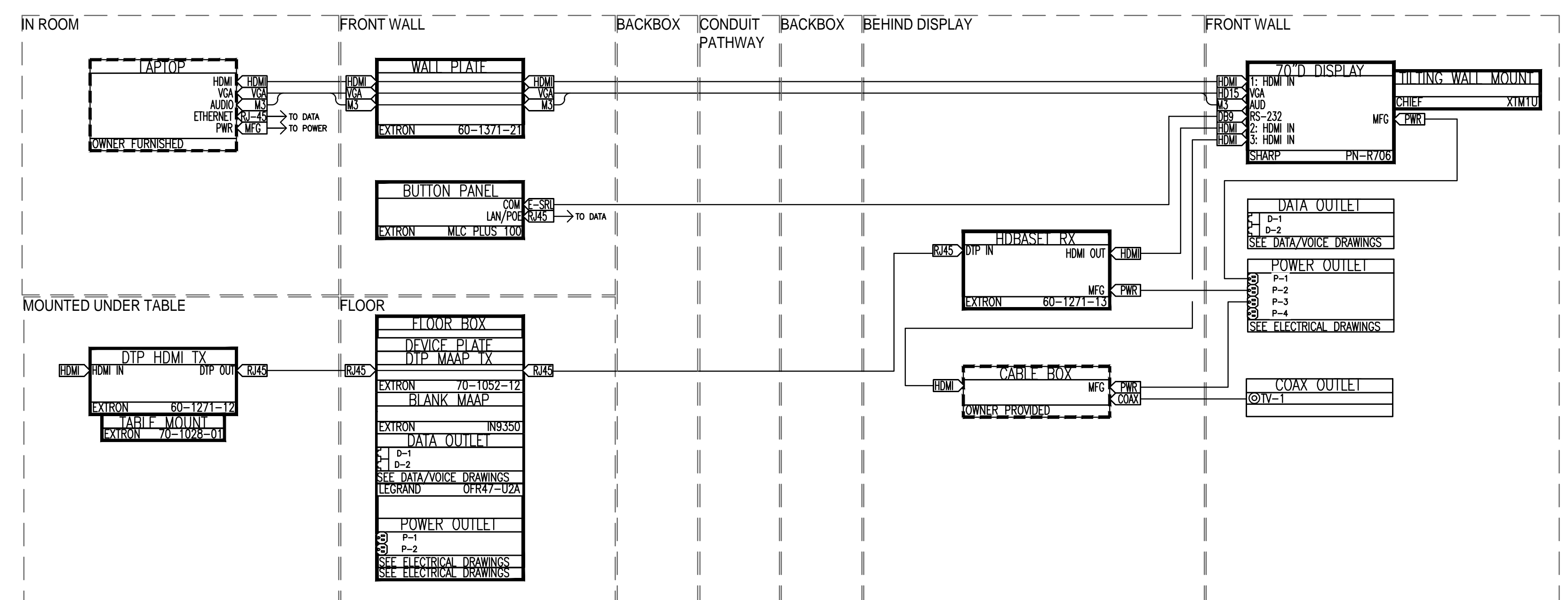
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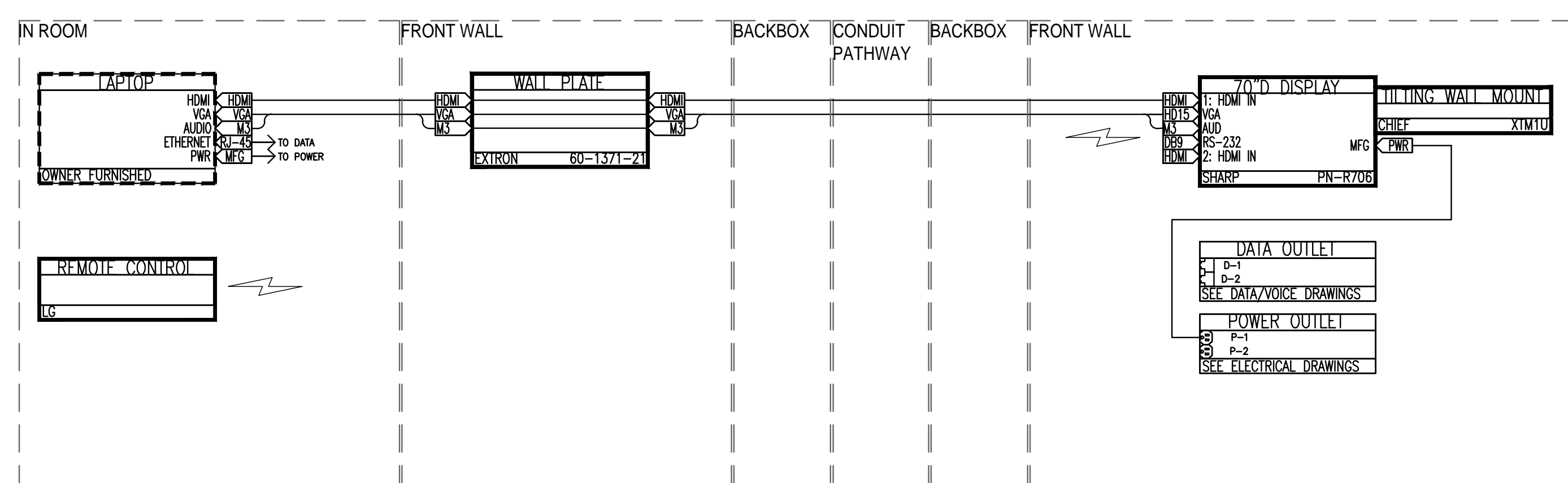
4 CONFERENCE ROOM 104B SCHEMATIC DIAGRAM



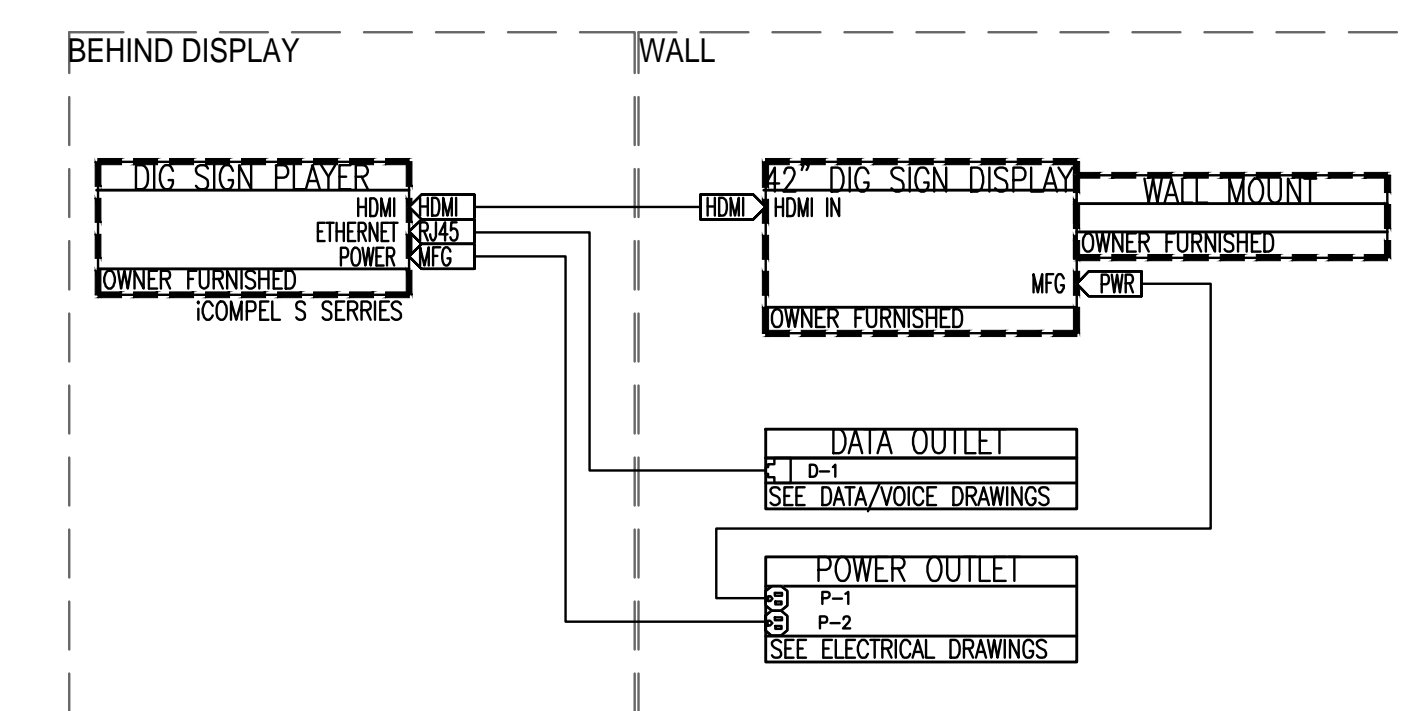
3 STUDENT VETERANS LOUNGE SCHEMATIC DIAGRAM



2 CONFERENCE ROOM 109 SCHEMATIC DIAGRAM



5 AV COLLABORATION SCHEMATIC DIAGRAM



1 TYPICAL RELOCATED DIGITAL SIGNAGE LOCATION SCHEMATIC DIAGRAM