

CHALLENGE ENTERPRISES

550 KINGSLEY AVENUE

ORANGE PARK, FLORIDA

ARCHITECT OF RECORD
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904.367.0077
CORPORATE LICENSE # AA26000982

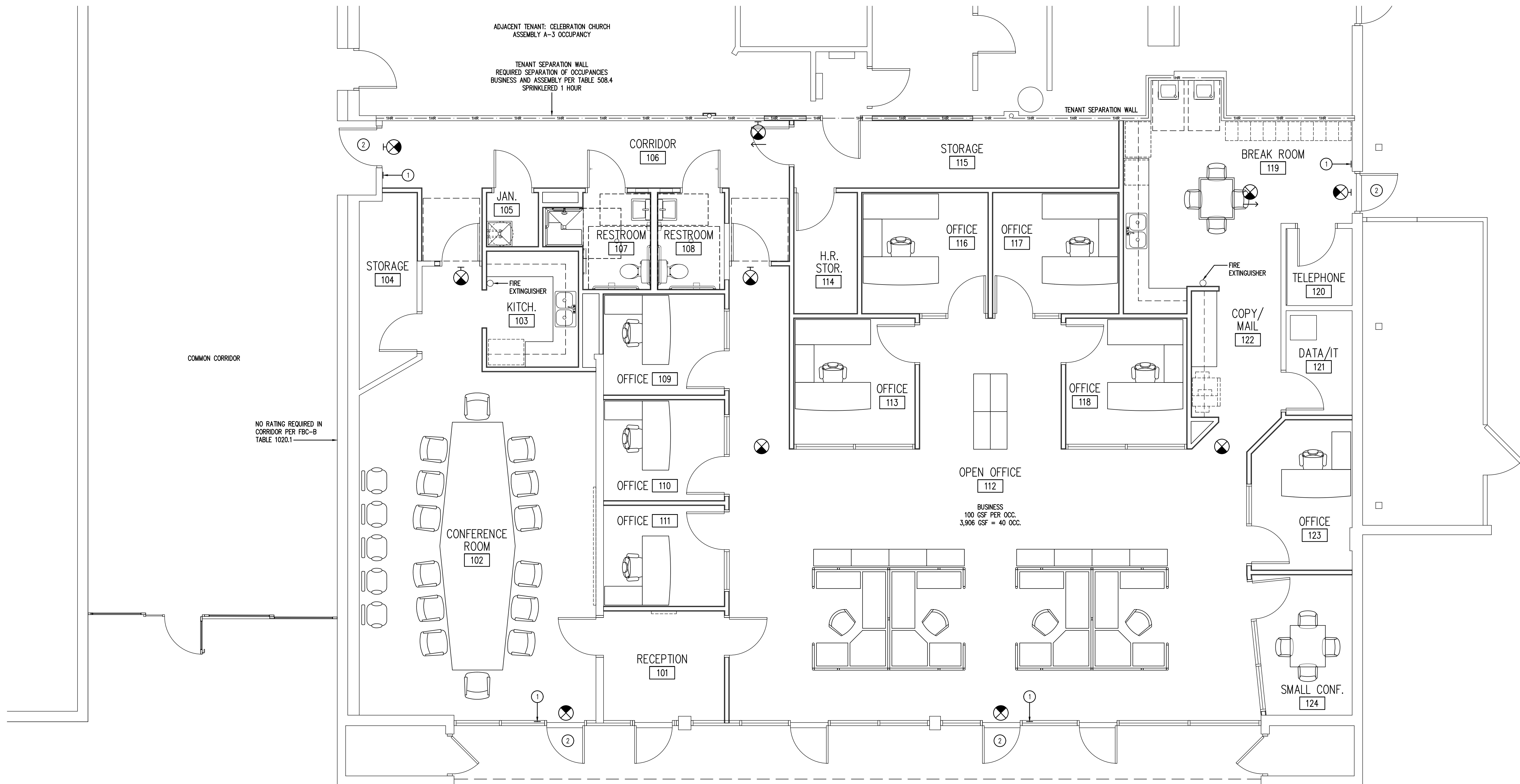
ELECTRICAL, MECHANICAL & PLUMBING ENGINEERING
POWELL & HINKLE ENGINEERING, PA.
904.264.5570
CA # 4577

BID SET
OCTOBER 11, 2019



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Jacksonville, Florida 32256
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Florida License Number IB26000740



COMMON CORRIDOR

NO RATING REQUIRED IN CORRIDOR PER FBC-B TABLE 1020.1

ADJACENT TENANT: CELEBRATION CHURCH ASSEMBLY A-3 OCCUPANCY
TENANT SEPARATION WALL REQUIRED SEPARATION OF OCCUPANCIES BUSINESS AND ASSEMBLY PER TABLE 508.4 SPRINKLERED 1 HOUR

TENANT SEPARATION WALL

CODE COMPLIANCE

PROJECT INVOLVES THE REMODELING OF A TENANT SPACE. THE SPACE WAS FORMERLY USED AS CHURCH CLASSROOMS.

GOVERNING CODES:

LIFE SAFETY CODE: NATIONAL FIRE PROTECTION ASSOCIATION FLORIDA BUILDING CODE 6TH EDITION (2017) - BUILDING
FLORIDA BUILDING CODE 6TH EDITION (2017) - PLUMBING
NFPA 70 - 2014 NATIONAL ELECTRIC CODE
FLORIDA BUILDING CODE 6TH EDITION (2017) - ENERGY CONSERVATION
FLORIDA BUILDING CODE 6TH EDITION (2017) - MECHANICAL
FIRE CODE: 2017 FLORIDA FIRE PREVENTION CODE 6TH EDITION
FLORIDA BUILDING CODE 6TH EDITION (2017) - ACCESSIBILITY

ALTERATION LEVEL PER CH. 5, SECTION 504, OF THE EXISTING BUILDING CODE

ALTERATION LEVEL 2 COMPLYING WITH THE PROVISIONS OF CHAPTERS 7 AND 8

CLASSIFICATION OF OVERALL BUILDING BY OCCUPANCY:

ASSEMBLY OCCUPANCY A-3 PLACE OF RELIGIOUS WORSHIP

CLASSIFICATION OF TENANT SUITE:

B BUSINESS

REQUIRED SEPARATION OF OCCUPANCIES (FBC-B TABLE 508.4)

ASSEMBLY TO BUSINESS, SPRINKLERED: 1 HOUR

CONSTRUCTION: (FBC-B TABLE 601)

TYPE IIB

AREAS:

TOTAL BUILDING AREA = 61,720 GSF

TENANT AREA = 3,906 GSF

FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS: (FBC-B TABLE 601)

PRIMARY STRUCTURAL FRAME	0 HOUR
EXTERIOR BEARING WALLS	0 HOUR
INTERIOR BEARING WALLS	0 HOUR
EXTERIOR NONBEARING WALLS/PARTITIONS	0 HOUR
INTERIOR NONBEARING WALLS/PARTITIONS	0 HOUR
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0 HOUR
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0 HOUR

EGRESS REQUIREMENTS FBC-B CHAPTER 10

1005.3.2	REQUIRED EGRESS WIDTH PER OCCUPANT, LEVEL:	0.2"
1013	ILLUMINATED AND TACTILE EXIT SIGNS: SEE LIFE SAFETY PLAN	
TABLE 1006.2.1	MAXIMUM COMMON PATH OF EGRESS TRAVEL:	100'
TABLE 1017.2	MAXIMUM EXIT ACCESS TRAVEL DISTANCE:	300'
TABLE 1020.2	MINIMUM CORRIDOR WIDTH: 36" OCCUPANT LOAD LESS THAN 50	
TOTAL OCCUPANTS:	40	
TOTAL EXIT CAPACITY:	660 OCCUPANTS	
FIRE PROTECTION SYSTEMS		
FULLY SPRINKLERED		
AUTOMATIC FIRE ALARM AND DETECTION SYSTEM		

FIRE EXTINGUISHERS AS SHOWN ON PLAN. ALL POINTS ARE WITHIN 75' OF AN EXTINGUISHER. EXTINGUISHERS SHALL CONFORM WITH THE FOLLOWING: MULTI-PURPOSE DRY CHEMICAL TYPE, UL 299, CAST STEEL TANK, CLASS 4A:60B:C, 10 POUND NOMINAL CAPACITY OR AHJ REQUIREMENTS, WHICH EVER IS MORE STRINGENT.

LIFE SAFETY ITEMS

ILLUMINATED EXIT SIGNS TACTILE EXIT SIGNS EMERGENCY LIGHTING	
PLUMBING FIXTURE CALCULATIONS FOR BUSINESS B (40 OCCUPANTS)	
WATER CLOSETS 1 PER 25 FOR THE FIRST 50 PROVIDED: 2	ACTUAL NO.
LAVATORIES 1 PER 40 FOR THE FIRST 80 PROVIDED: 2	ACTUAL NO.
DRINKING FOUNTAIN 1 PER 100 PROVIDED: 1 HIGH + 1 LOW	ACTUAL NO.
1 SERVICE SINK PROVIDED: 1	ACTUAL NO.

CODED PLAN NOTES

- TACTILE SIGN STATING 'EXIT' TO COMPLY WITH FBC-B 1011.3 AND ICC/ANSI A117.1 SECTION 703 AMERICAN NATIONAL STANDARD FOR ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES. TOPS OF SIGNS SHALL BE 5'-0" A.F.F. CENTERLINE OF SIGNS SHALL BE 9" FROM VERTICAL EDGE OF DOOR WHERE POSSIBLE. LOCATE SIGNS AS SHOWN OR AS DIRECTED BY CITY INSPECTOR OR CODE OFFICIAL.
- EXIT DISCHARGE. 36" DOOR WITH 33" OF CLEAR EXITING SPACE WHEN DOOR IS OPEN 90°. EXIT CAPACITY IS 33" DIVIDED BY .2" PER OCCUPANT = 165 OCCUPANTS.

LIFE SAFETY PLAN
A0.51 1/4"=1'-0"

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MIKE KOPPENHAFFER, AIA - LICENSE # 0014945

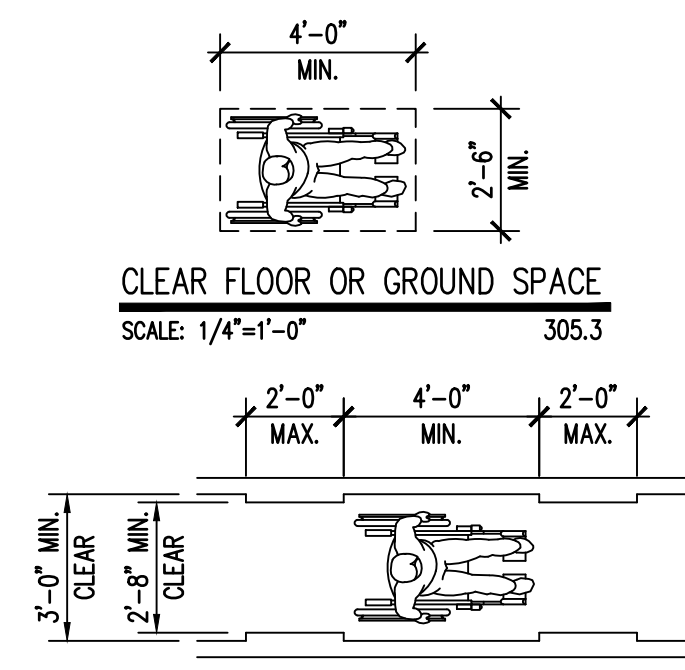
REVISIONS:

DATE: 10/11/19

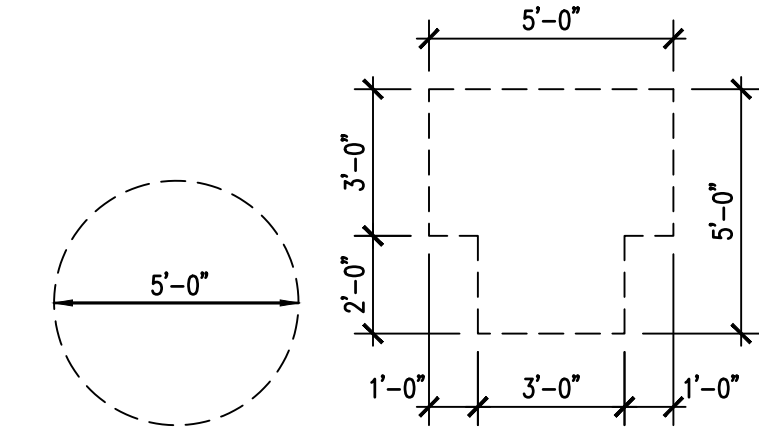
LIFE SAFETY PLAN AND CODE INFORMATION

DRAWN BY: DND
CHECKED BY: MSK
PROJECT NO.: 2019-22

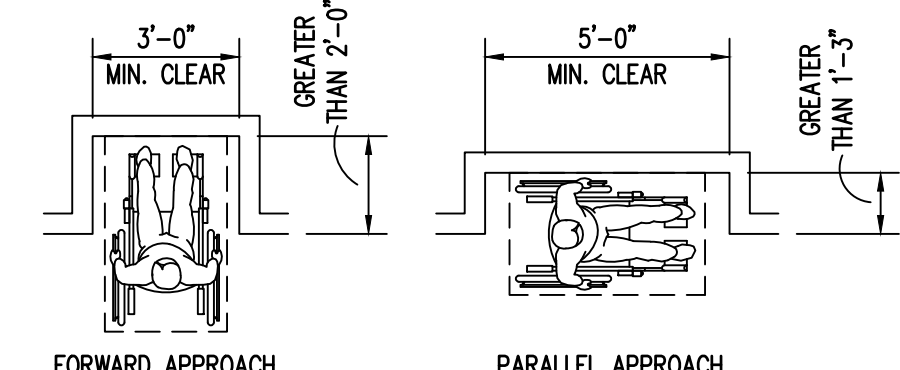
A0.51
BID SET



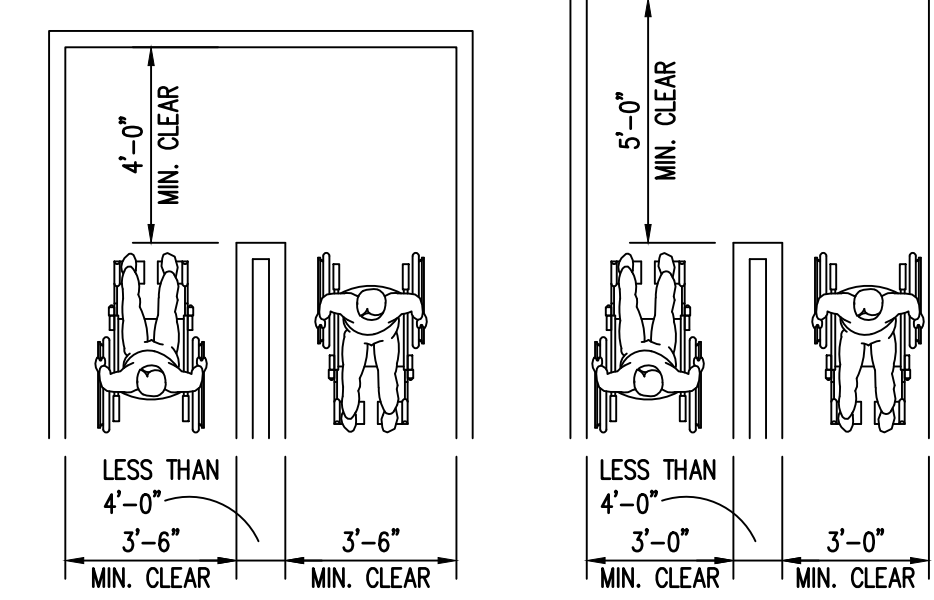
CLEAR FLOOR OR GROUND SPACE
SCALE: 1/4"=1'-0"
305.3



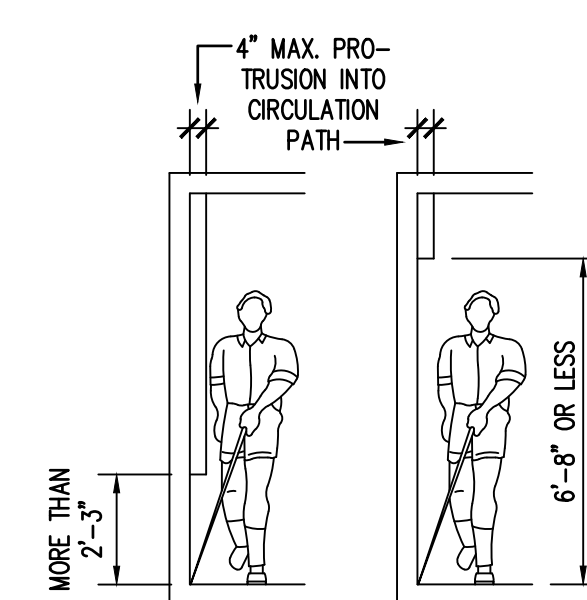
TURNING SPACE
SCALE: 1/4"=1'-0"
304.3.1, 304.3.2



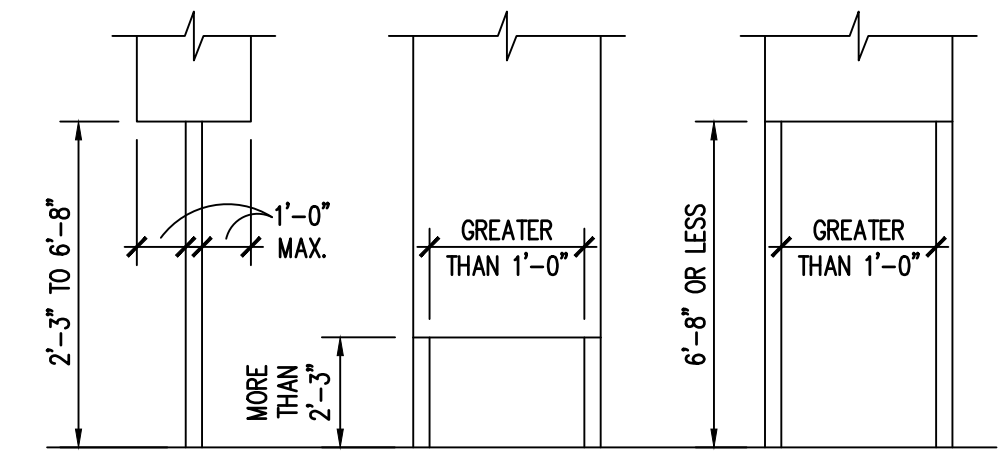
MANEUVERING CLEARANCE IN AN ALCOVE
SCALE: 1/4"=1'-0"
305.7.1, 305.7.2



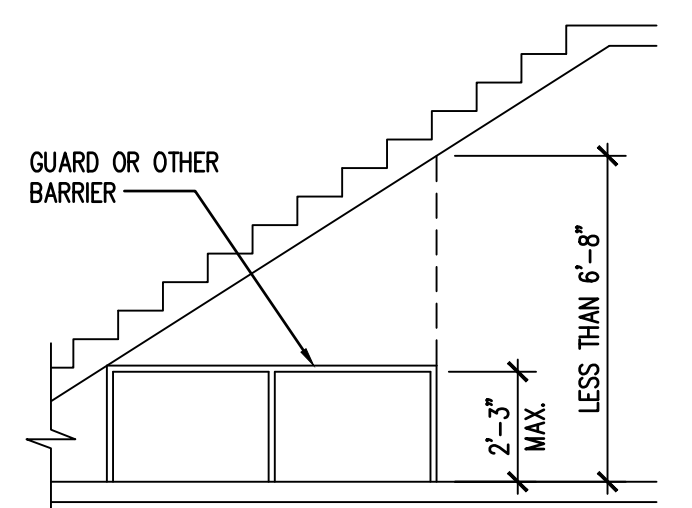
CLEAR WIDTH AT 180° TURN
SCALE: 1/4"=1'-0"
403.5.2



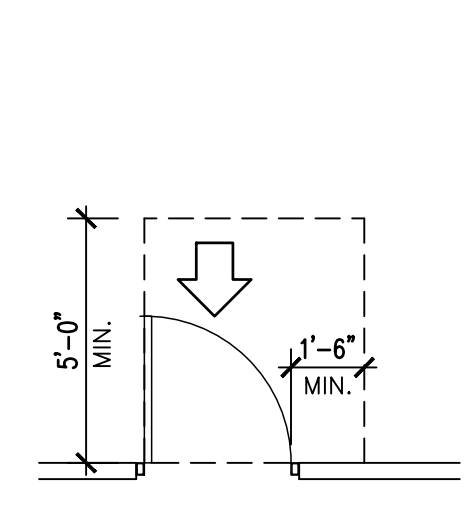
PROTRUDING OBJECTS
SCALE: 1/4"=1'-0"
307.2, 307.3



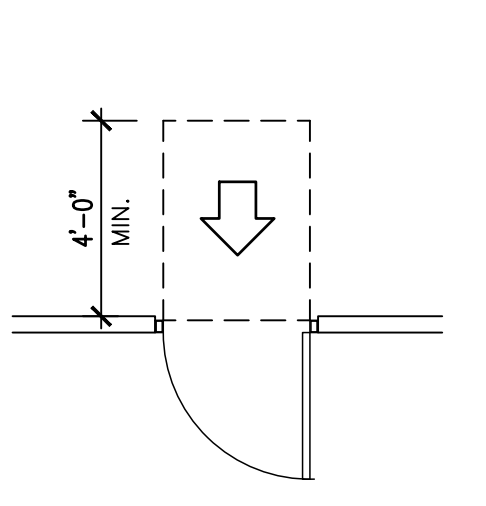
OBJECTS MOUNTED ON POSTS OR PYLONS
307.2, 307.3



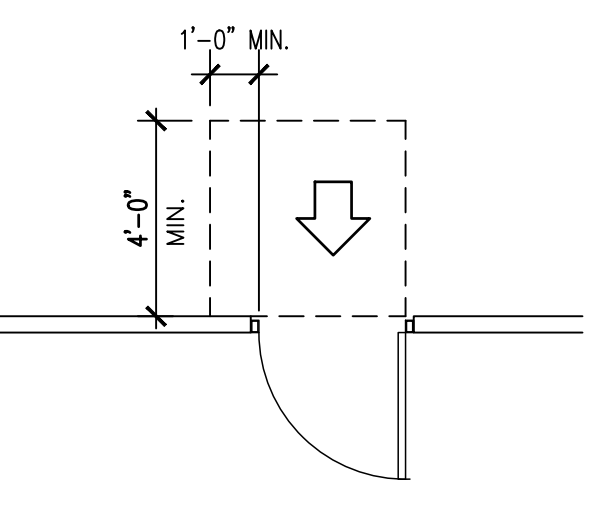
VERTICAL CLEARANCE AT SLOPED OBJECTS
SCALE: 1/4"=1'-0"
307.4



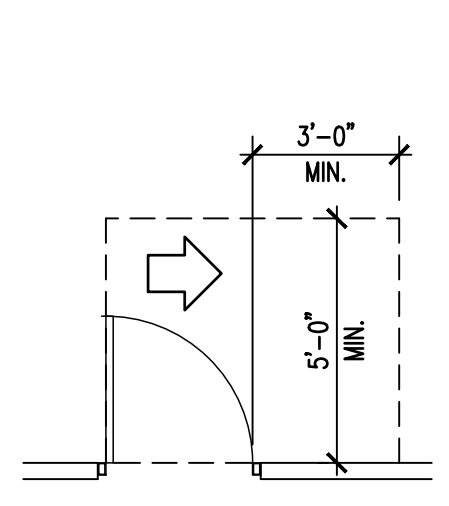
FRONT APPROACH, PULL SIDE



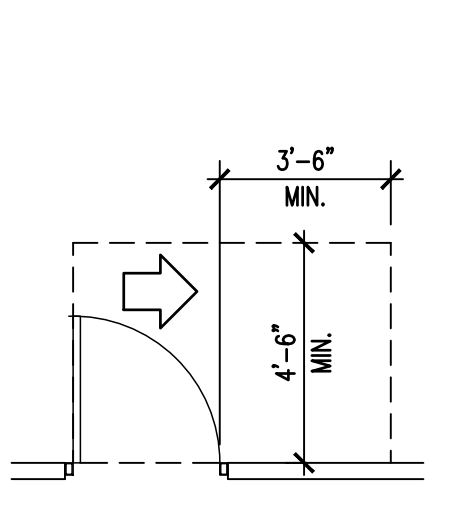
FRONT APPROACH, PUSH SIDE



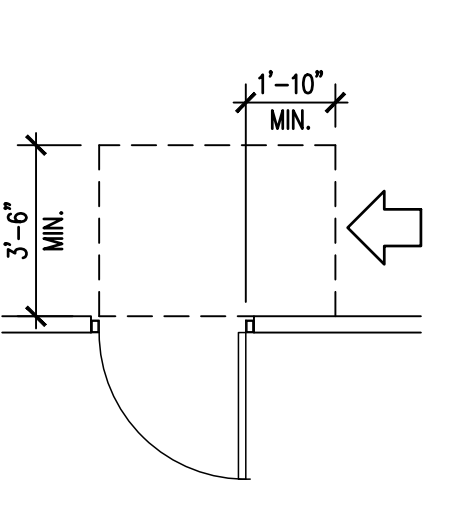
FRONT APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH



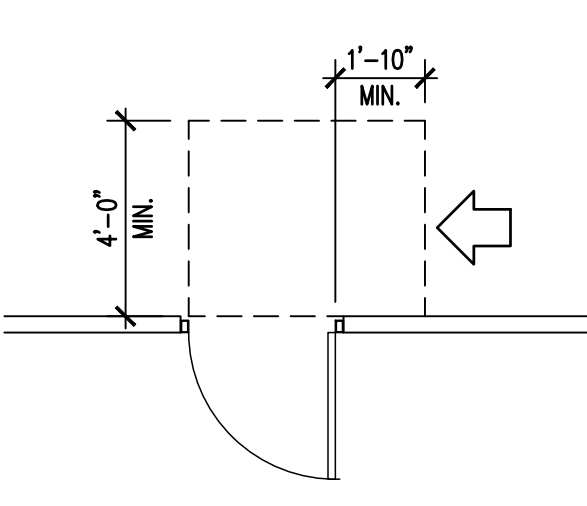
HINGE APPROACH, PULL SIDE



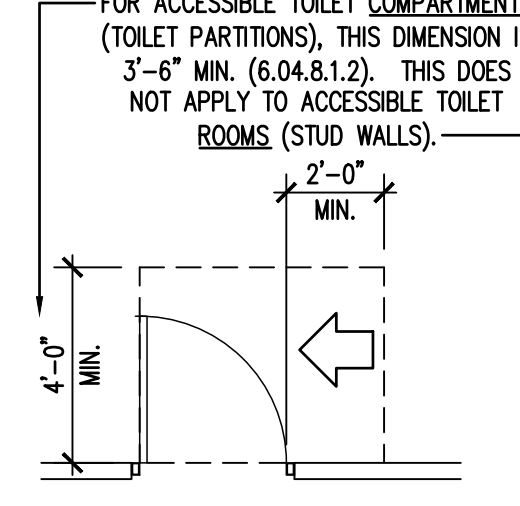
HINGE APPROACH, PULL SIDE



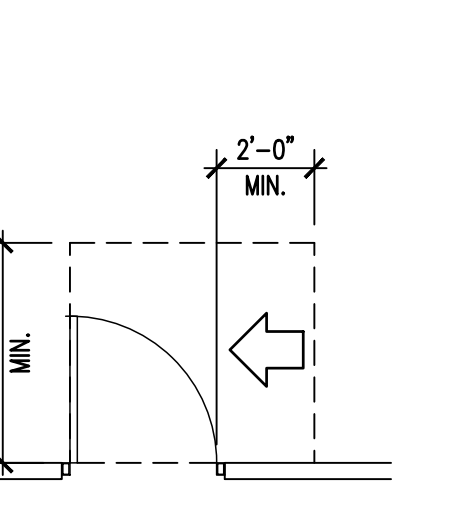
HINGE APPROACH, PUSH SIDE



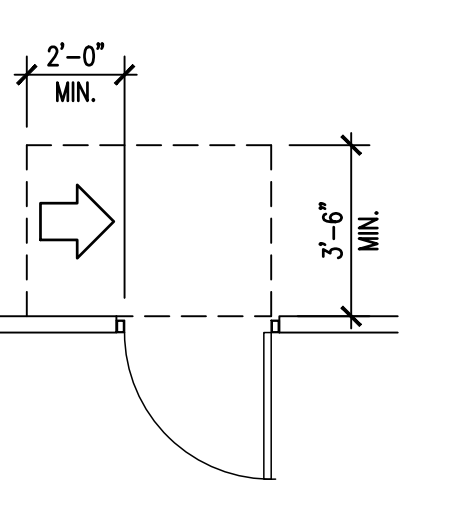
HINGE APPROACH, PUSH SIDE, DOOR PROVIDED WITH BOTH CLOSER AND LATCH



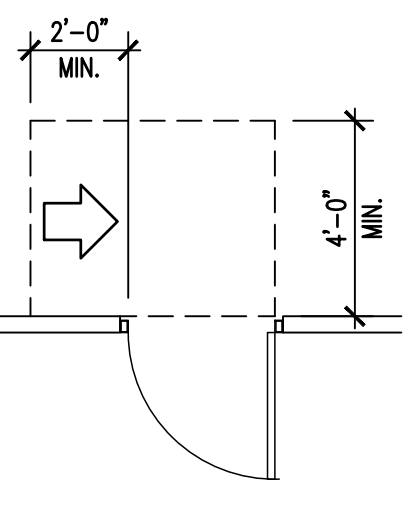
LATCH APPROACH, PULL SIDE



LATCH APPROACH, PULL SIDE, DOOR PROVIDED WITH CLOSER

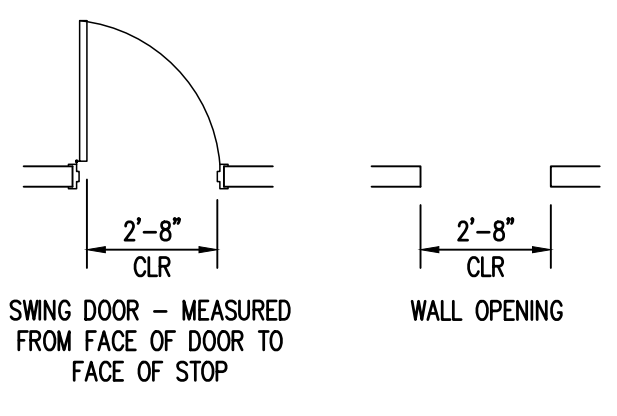


LATCH APPROACH, PUSH SIDE

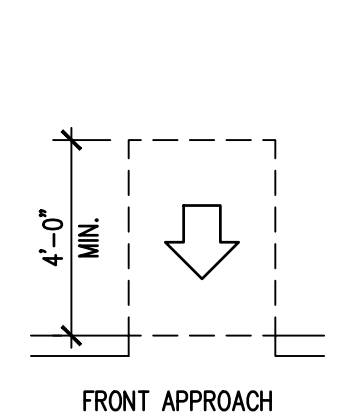


LATCH APPROACH, PUSH SIDE, DOOR PROVIDED WITH CLOSER

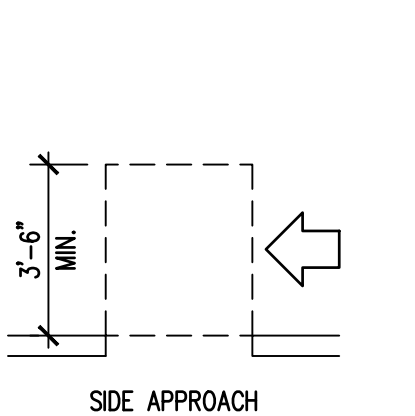
MANEUVERING CLEARANCES AT MANUAL SWING DOORS AND GATES
SCALE: 1/4"=1'-0"
404.2.4.1



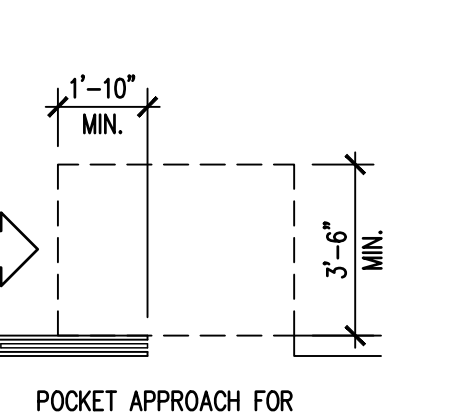
SWING DOOR - MEASURED FROM FACE OF DOOR TO FACE OF STOP



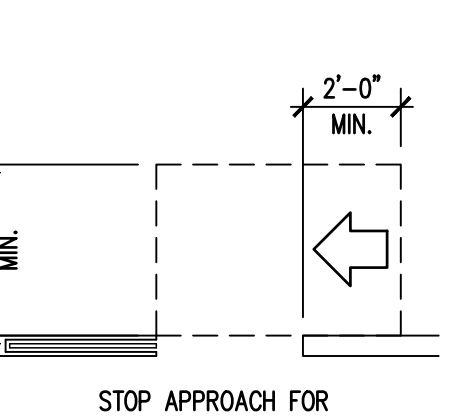
FRONT APPROACH



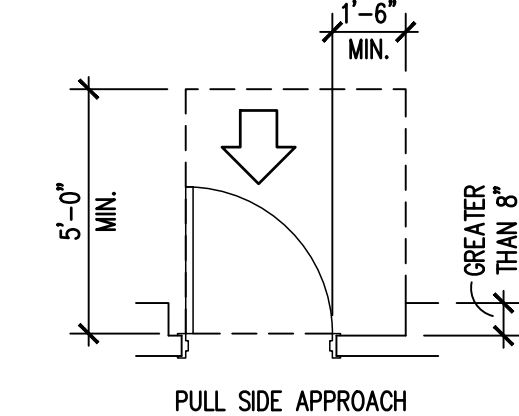
SIDE APPROACH



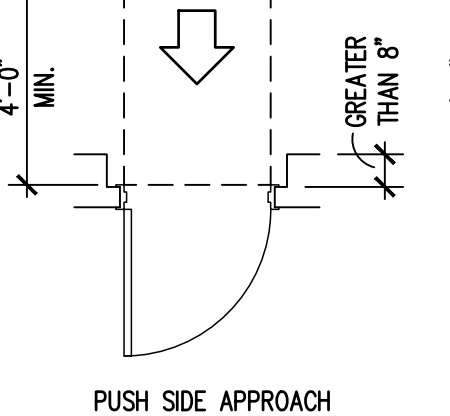
POCKET APPROACH FOR POCKET DOOR



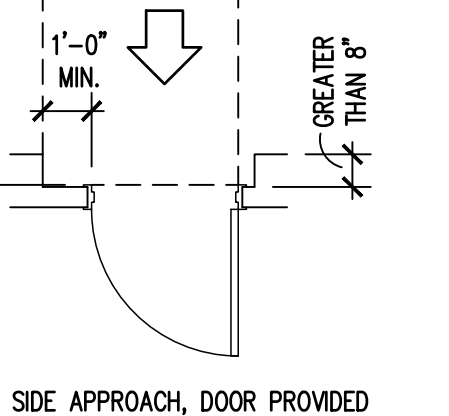
STOP APPROACH FOR POCKET DOOR



PULL SIDE APPROACH

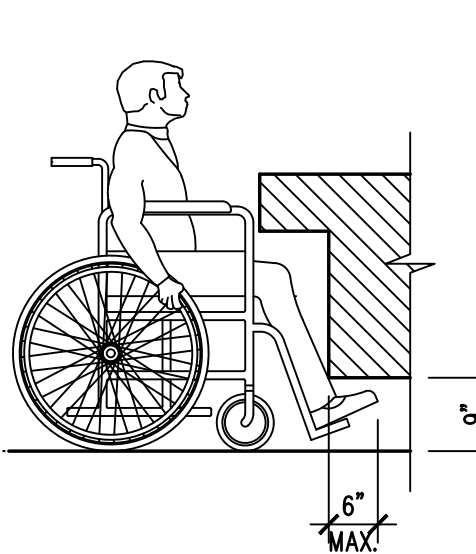


PUSH SIDE APPROACH

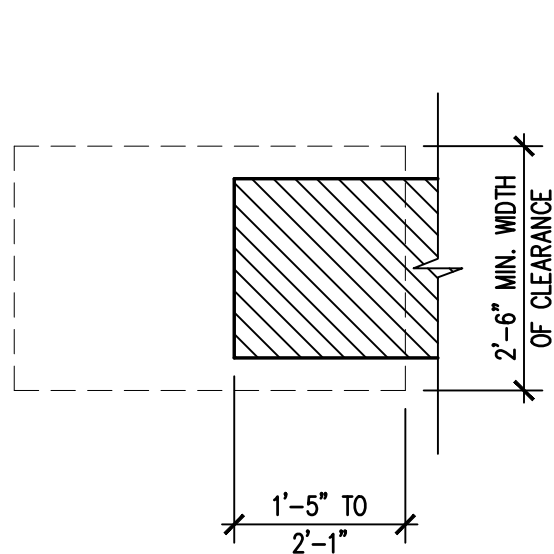


PUSH SIDE APPROACH, DOOR PROVIDED WITH BOTH CLOSER AND LATCH

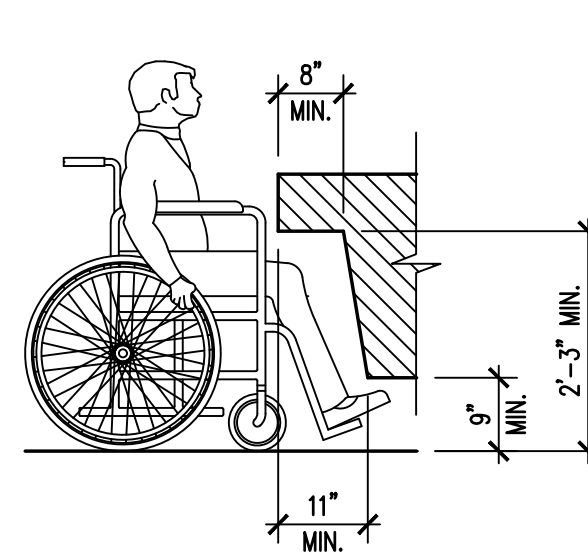
MANEUVERING CLEARANCES AT DOORWAYS WITHOUT DOORS, SLIDING DOORS, GATES AND FOLDING DOORS
SCALE: 1/4"=1'-0"
404.2.4.2



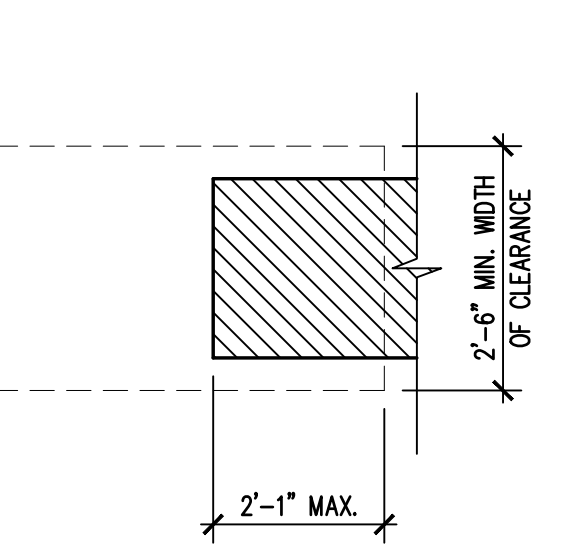
TOE CLEARANCES
SCALE: 1/2"=1'-0"
306.2



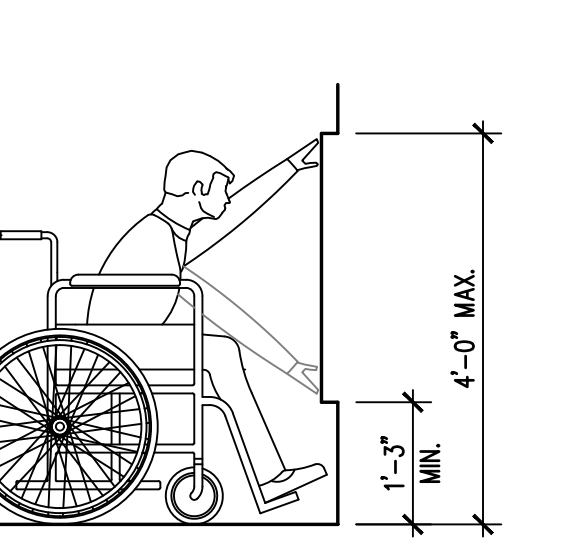
KNEE CLEARANCES
SCALE: 1/2"=1'-0"
306.3



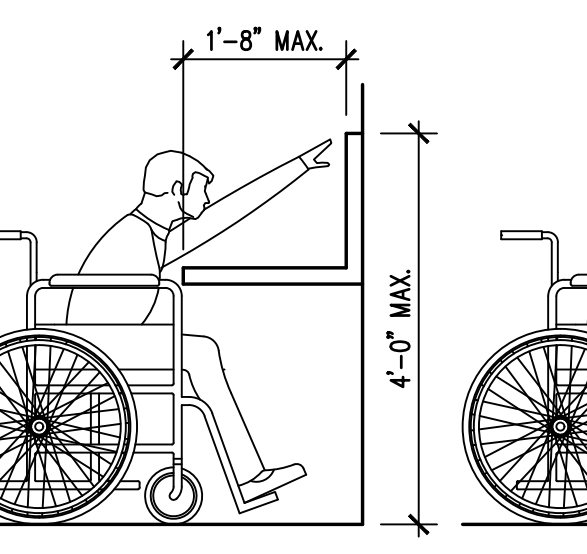
UNOBSTRUCTED FORWARD REACH
SCALE: 1/2"=1'-0"
308.2.1



OBSTRUCTED HIGH FORWARD REACH
SCALE: 1/2"=1'-0"
308.2.2



UNOBSTRUCTED SIDE REACH
SCALE: 1/2"=1'-0"
308.3.1



OBSTRUCTED HIGH SIDE REACH
SCALE: 1/2"=1'-0"
308.3.2

HANDLES, PULLS, LATCHES, LOCKS AND OTHER OPERABLE PARTS ON DOORS AND GATES SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5 POUNDS MAXIMUM.

OPERABLE PARTS OF SUCH HARDWARE SHALL BE 34" MINIMUM AND 48" MAXIMUM ABOVE THE FINISH FLOOR OR GROUND. WHERE SLIDING DOORS ARE IN THE FULLY OPEN POSITION, OPERATING HARDWARE SHALL BE EXPOSED AND USABLE FROM BOTH SIDES.

DOOR HARDWARE THAT CAN BE OPERATED WITH A CLOSED FIST OR A LOOSE GRIP ACCOMMODATES THE GREATEST RANGE OF USERS. HARDWARE THAT REQUIRES SIMULTANEOUS HAND AND FINGER MOVEMENTS REQUIRE GREATER DEXTERITY AND COORDINATION, AND IS NOT RECOMMENDED.

DOOR AND GATE CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR OR GATE TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

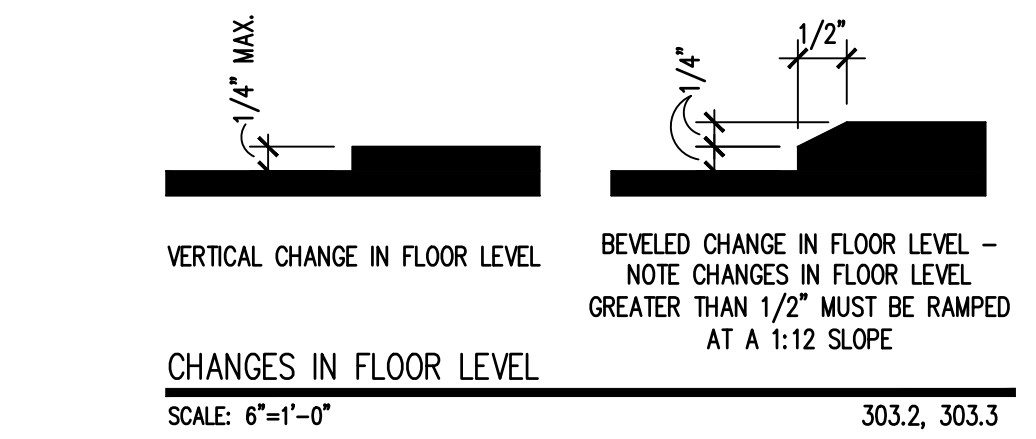
DOOR AND GATE SPRING HINGES SHALL BE ADJUSTED SO THAT FROM THE OPEN POSITION OF 70 DEGREES, THE DOOR OR GATE SHALL MOVE TO THE CLOSED POSITION IN 1.5 SECONDS MINIMUM.

FIRE DOORS SHALL HAVE A MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY. THE FORCE FOR PUSHING OR PULLING OPEN A DOOR OR GATE OTHER THAN FIRE DOORS SHALL BE AS FOLLOWS:

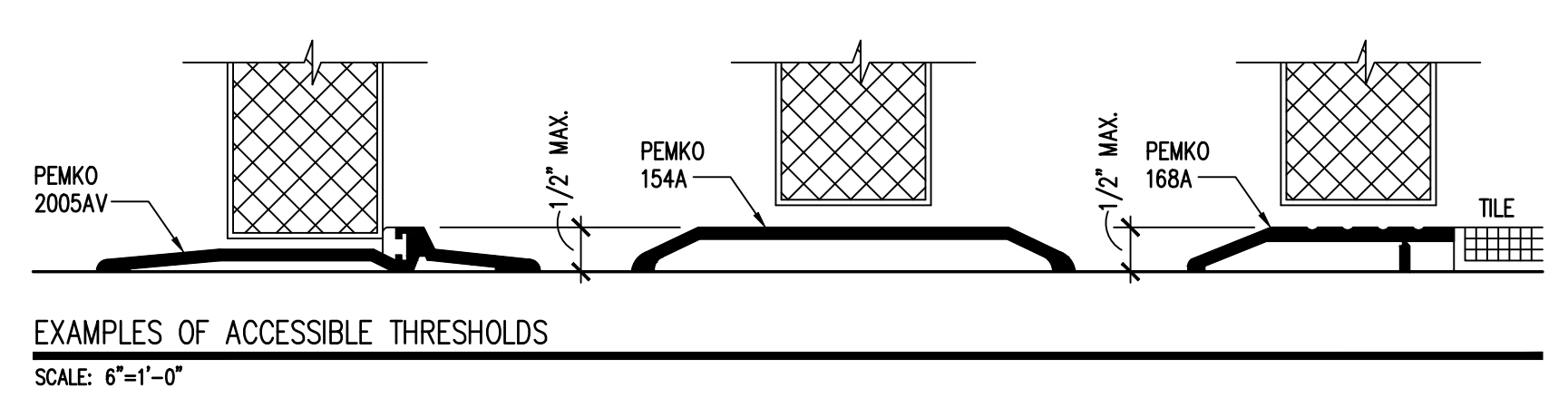
1. INTERIOR HINGED DOORS AND GATES: 5 POUNDS MAXIMUM
2. SLIDING OR FOLDING DOORS: 5 POUNDS MAXIMUM
3. EXTERIOR HINGED DOORS SHALL BE DESIGNED SO THAT SUCH DOORS CAN BE PUSHED OR PULLED OPEN WITH A FORCE NOT EXCEEDING 8.5 POUNDS.

THE MAXIMUM FORCE PERTAINS TO THE CONTINUOUS APPLICATION OF FORCE NECESSARY TO FULLY OPEN A DOOR OR GATE, NOT THE INITIAL FORCE NEEDED TO OVERCOME THE INERTIA OF THE DOOR OR GATE. THESE FORCES DO NOT APPLY TO THE FORCE REQUIRED TO RETRACT LATCH BOLTS OR DISENGAGE OTHER DEVICES THAT HOLD THE DOOR OR GATE IN A CLOSED POSITION.

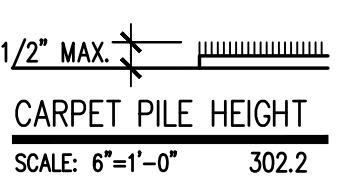
ACCESSIBLE DOOR AND GATE HARDWARE
404.2.7 THROUGH 404.2.9



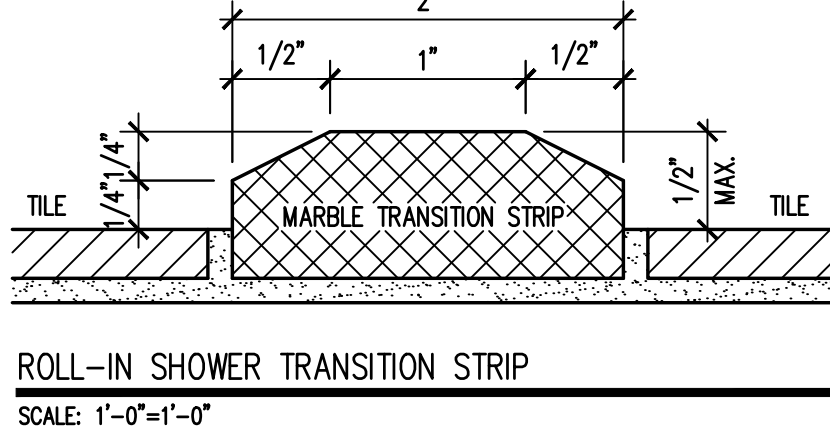
CHANGES IN FLOOR LEVEL
SCALE: 6"=1'-0"
303.2, 303.3



EXAMPLES OF ACCESSIBLE THRESHOLDS
SCALE: 6"=1'-0"



CARPET PILE HEIGHT
SCALE: 6"=1'-0"
302.2



ROLL-IN SHOWER TRANSITION STRIP
SCALE: 1'-0"=1'-0"

THE CONTRACTOR SHALL BE FAMILIAR WITH ALL OF THE ACCESSIBILITY REQUIREMENTS SHOWN ON A0.04 AND A0.05 AND IN THE 2017 FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IF ANYTHING IN THE CONTRACT DOCUMENTS CONTRADICTS THE ACCESSIBILITY REQUIREMENTS OR IF ANYTHING IN THE CONTRACT DOCUMENTS FALLS SHORT OF FULL COMPLIANCE.

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DATE:	10/11/19
PROJECT NO.:	2019-22

REVISIONS:	

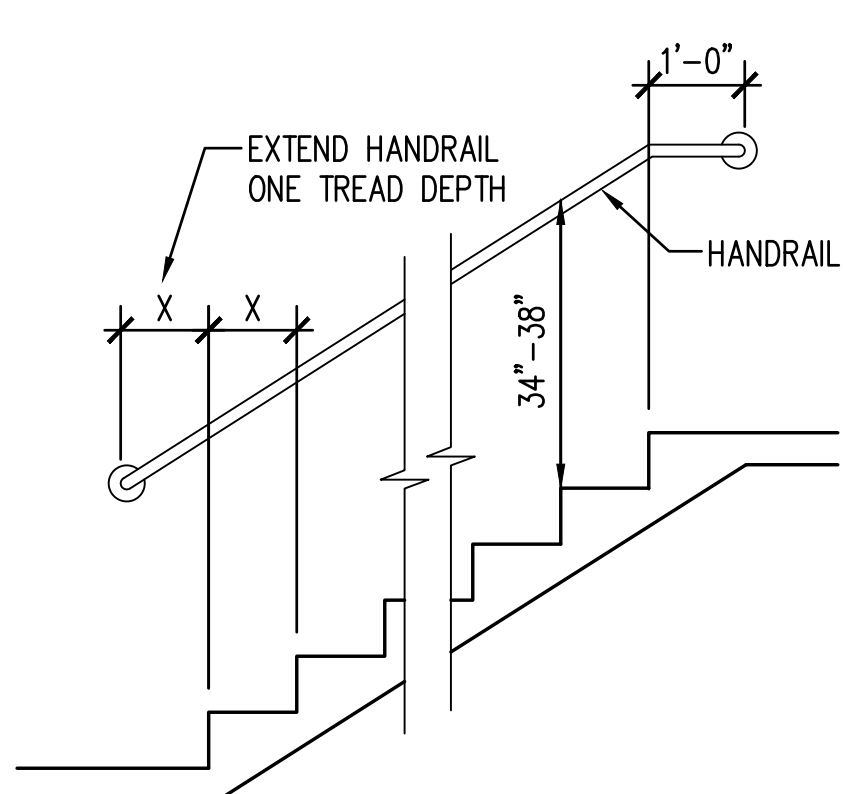
DATE: 10/11/19

ACCESSIBILITY REQUIREMENTS

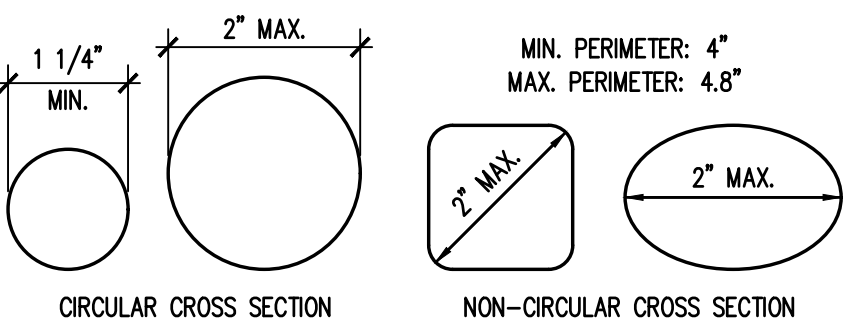
DRAWN BY: XXX
CHECKED BY: SDP/MSK

PROJECT NO.: 2019-22

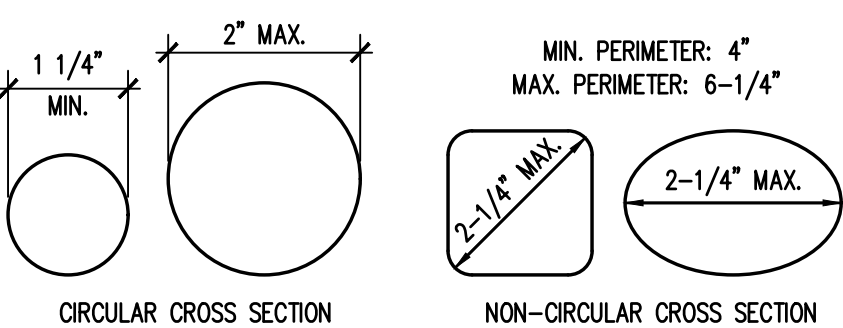
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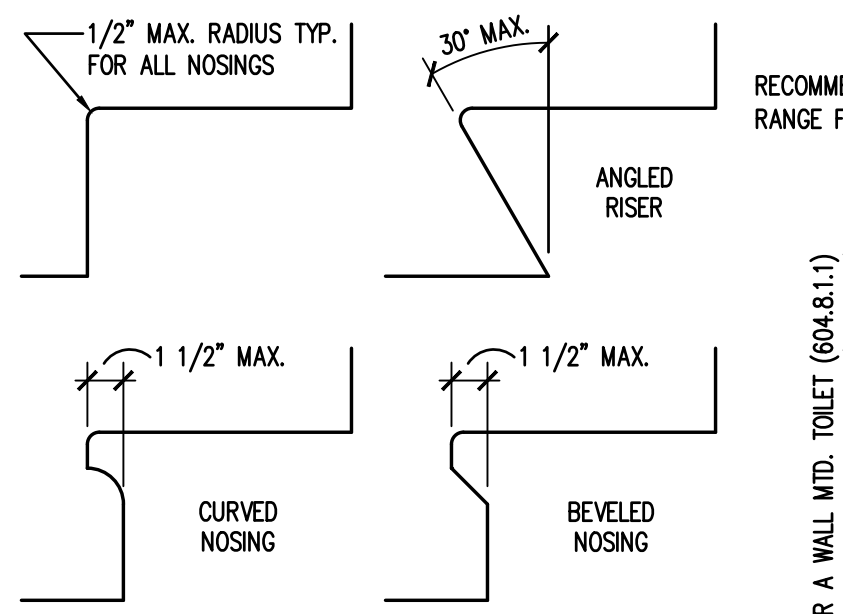
STAIR HANDRAIL HEIGHT AND EXTENSIONS
SCALE: 3/8"=1'-0" 505.4, 505.10.2, 505.10.3



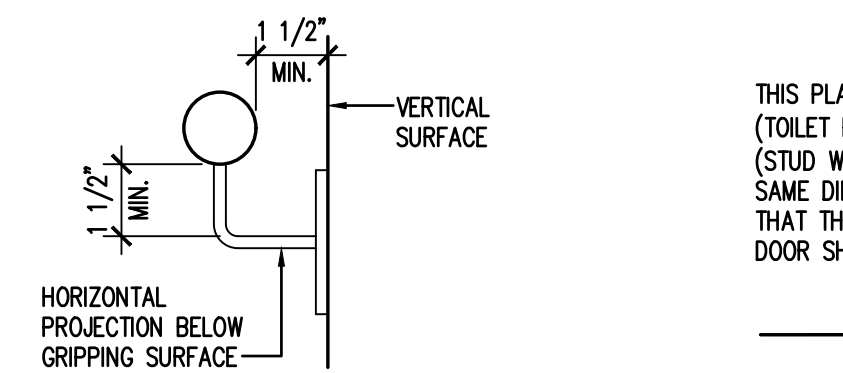
GRAB BAR CROSS SECTIONS
SCALE: 6"=1'-0" 609.2



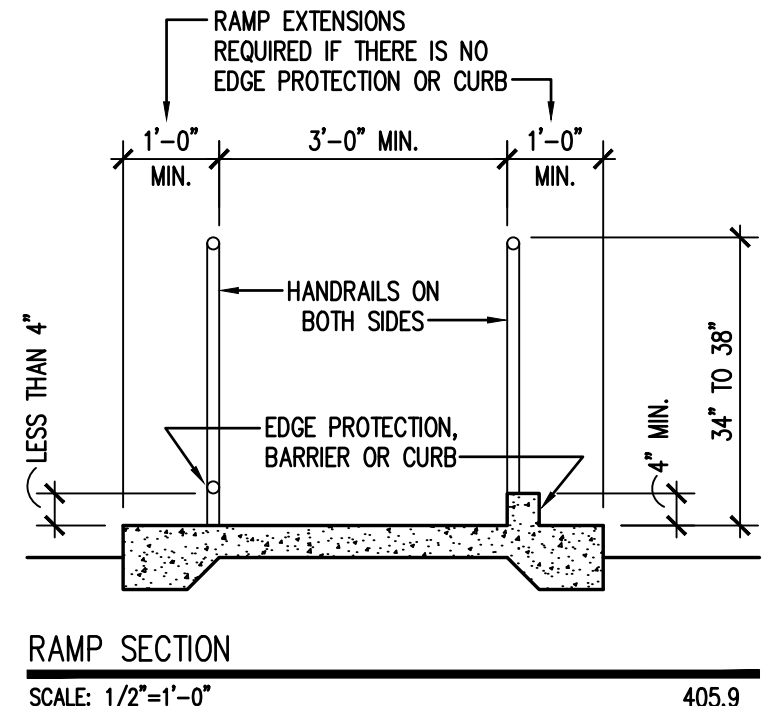
HANDRAIL CROSS SECTIONS
SCALE: 6"=1'-0" 505.7



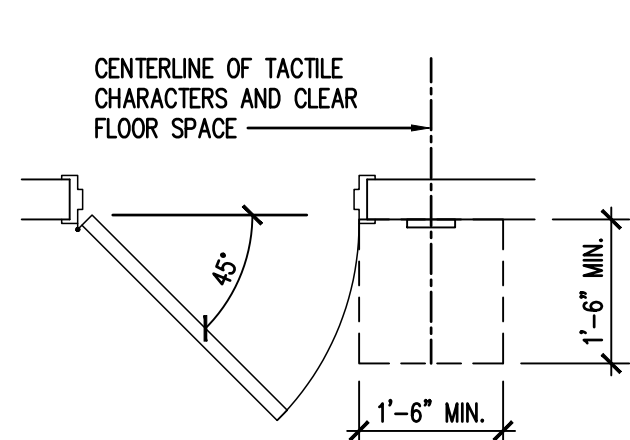
STAIR NOSINGS
SCALE: 1-1/2"=1'-0" 504.5



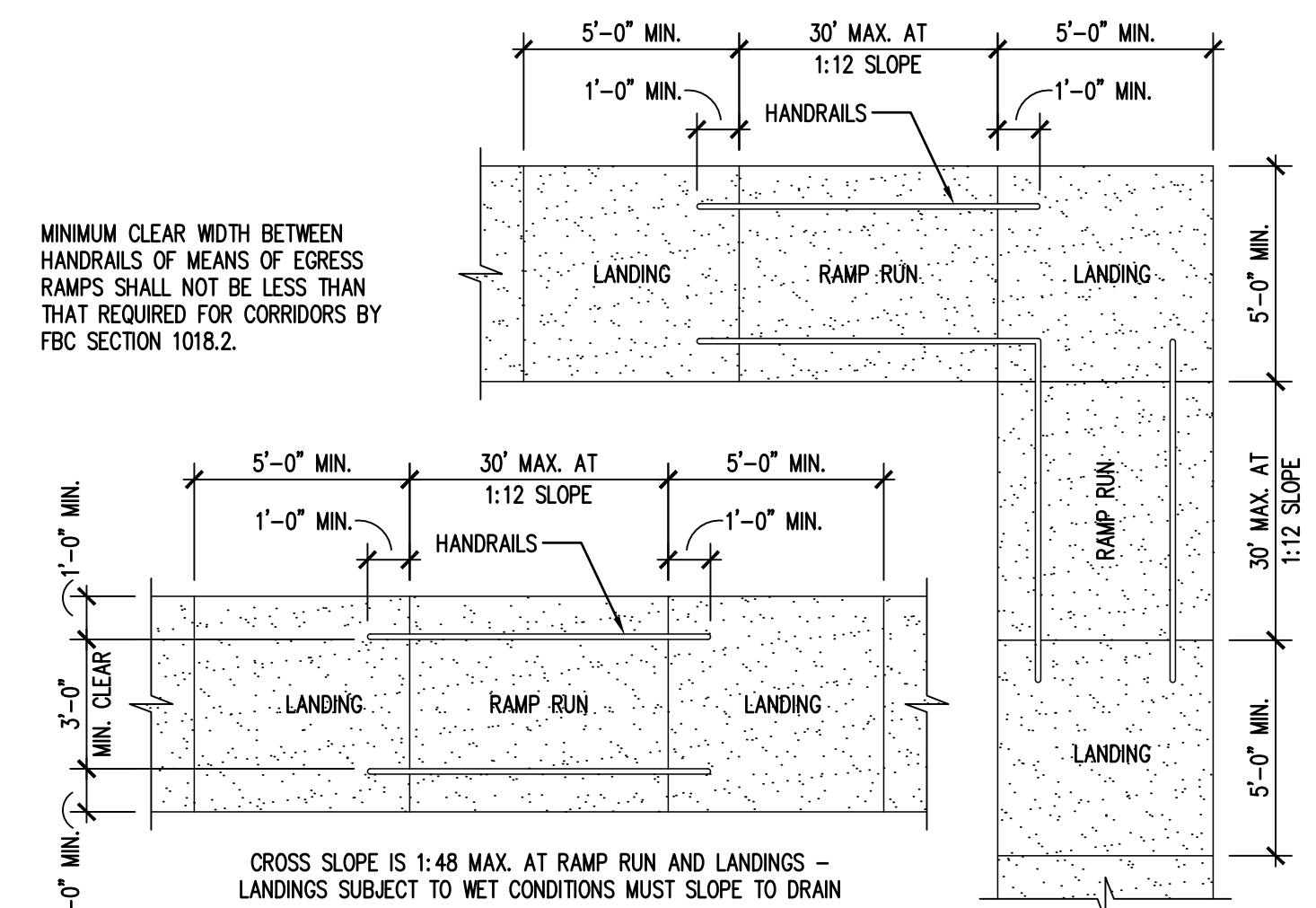
HANDRAIL/GRAB BAR CLEARANCES
SCALE: 3"=1'-0" 505.5, 505.6



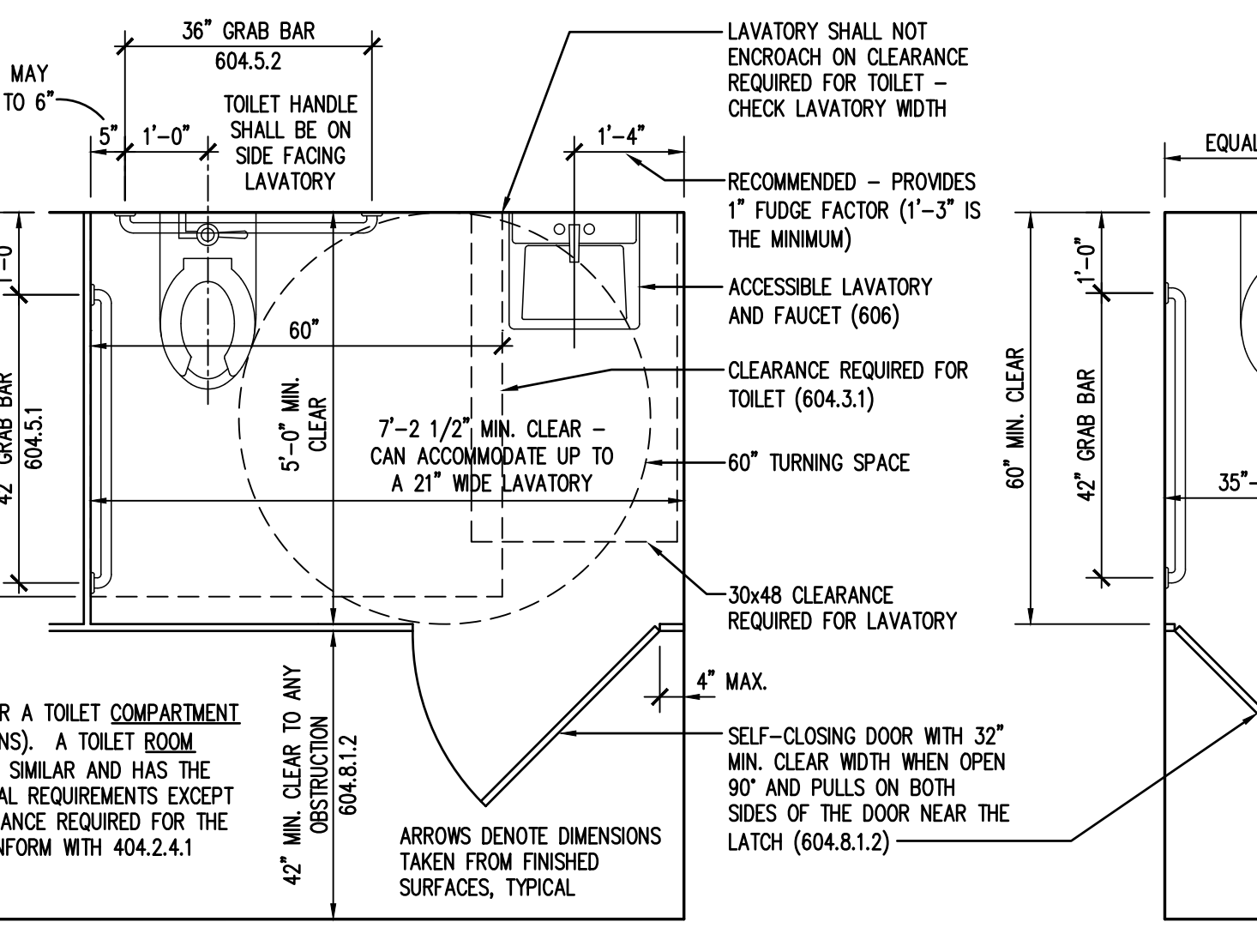
RAMP SECTION
SCALE: 1/2"=1'-0" 405.9



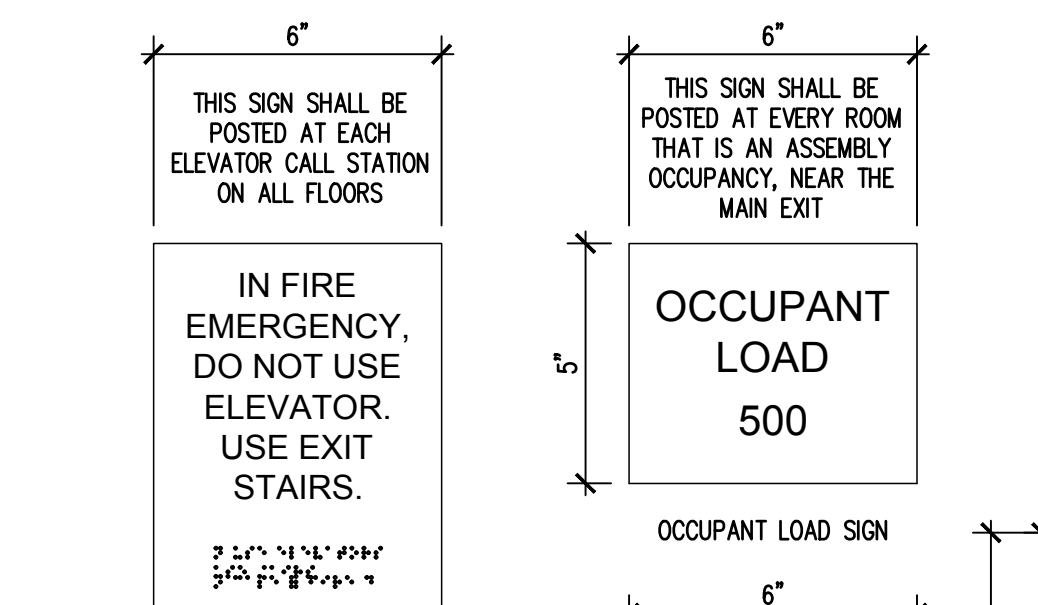
CLEAR FLOOR SPACE AT SIGNS
SCALE: 1/2"=1'-0" 703.4.2



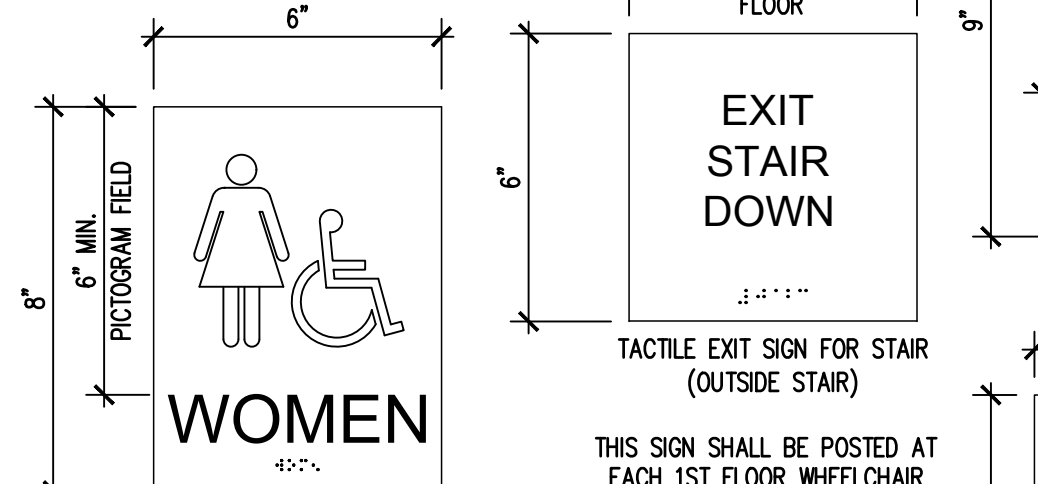
RAMP LANDINGS
SCALE: 1/4"=1'-0" 405.7, 505.10.1



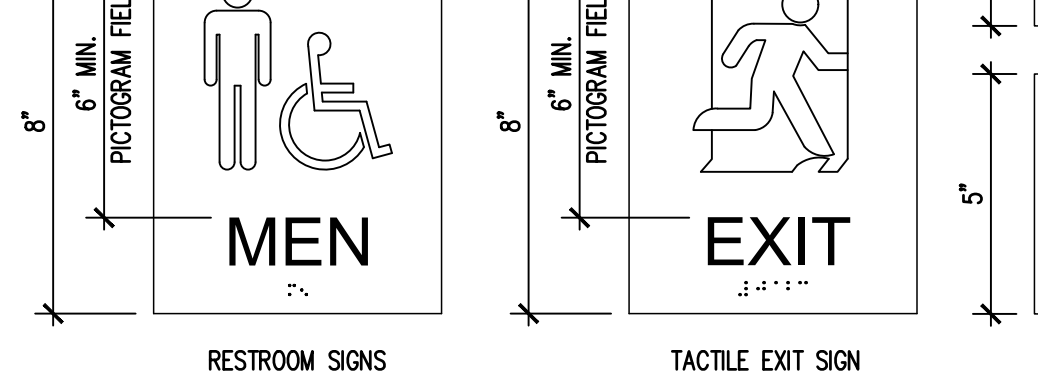
WHEELCHAIR ACCESSIBLE TOILET COMPARTMENT
SCALE: 1/2"=1'-0" 604



ELEVATOR SIGN

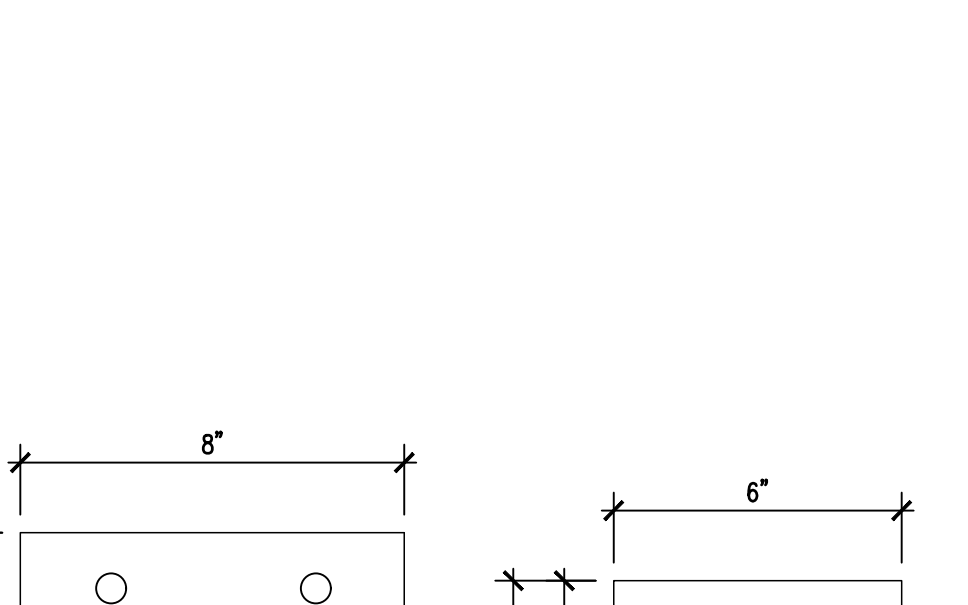


RESTROOM SIGNS

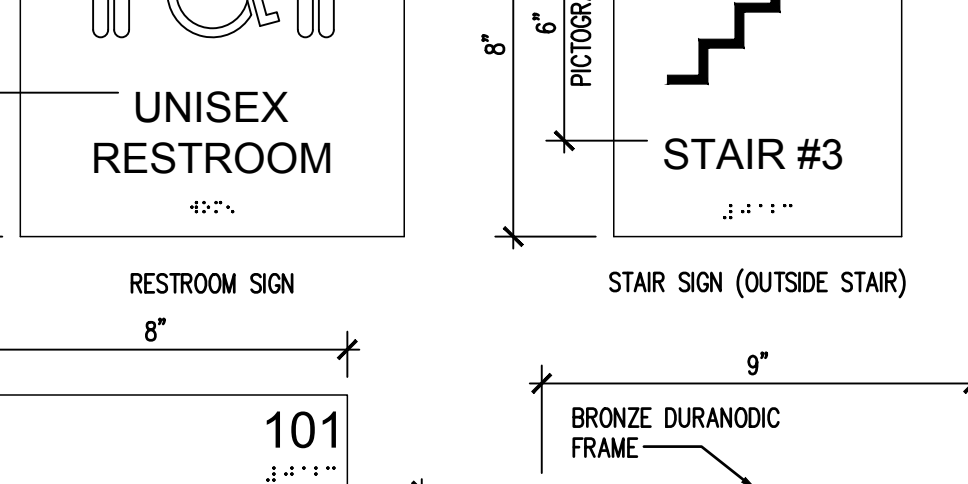


TACTILE EXIT SIGN

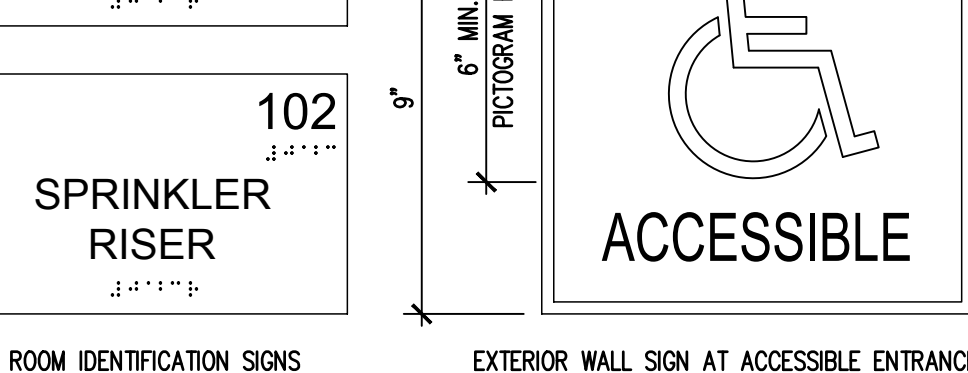
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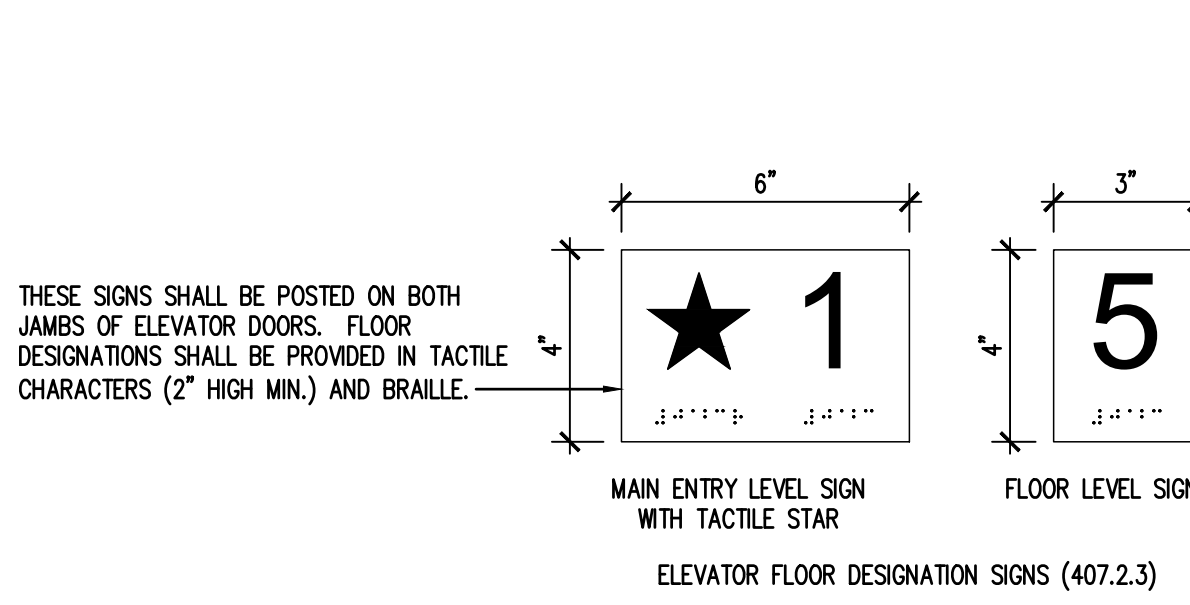
OCCUPANT LOAD SIGN



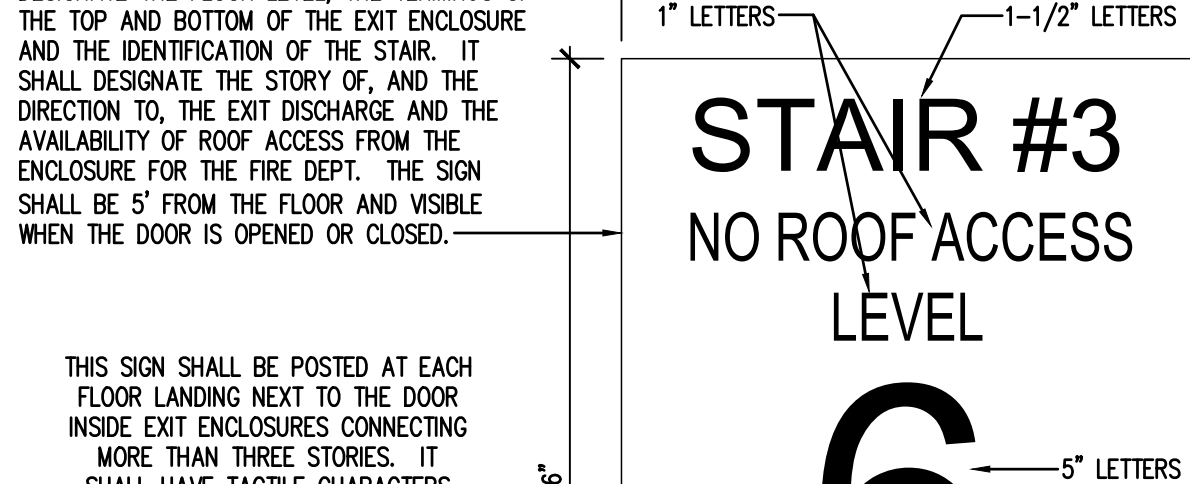
RESTROOM SIGN



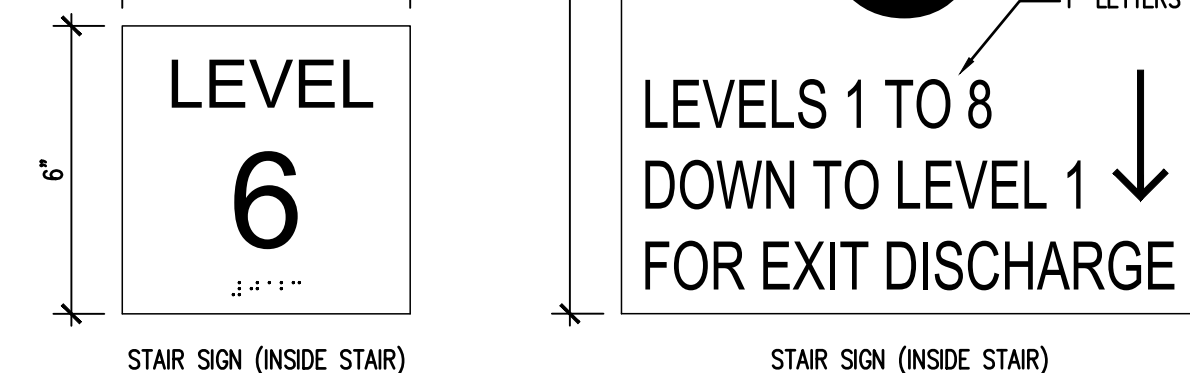
ROOM IDENTIFICATION SIGNS



ELEVATOR FLOOR DESIGNATION SIGNS (407.2.3)

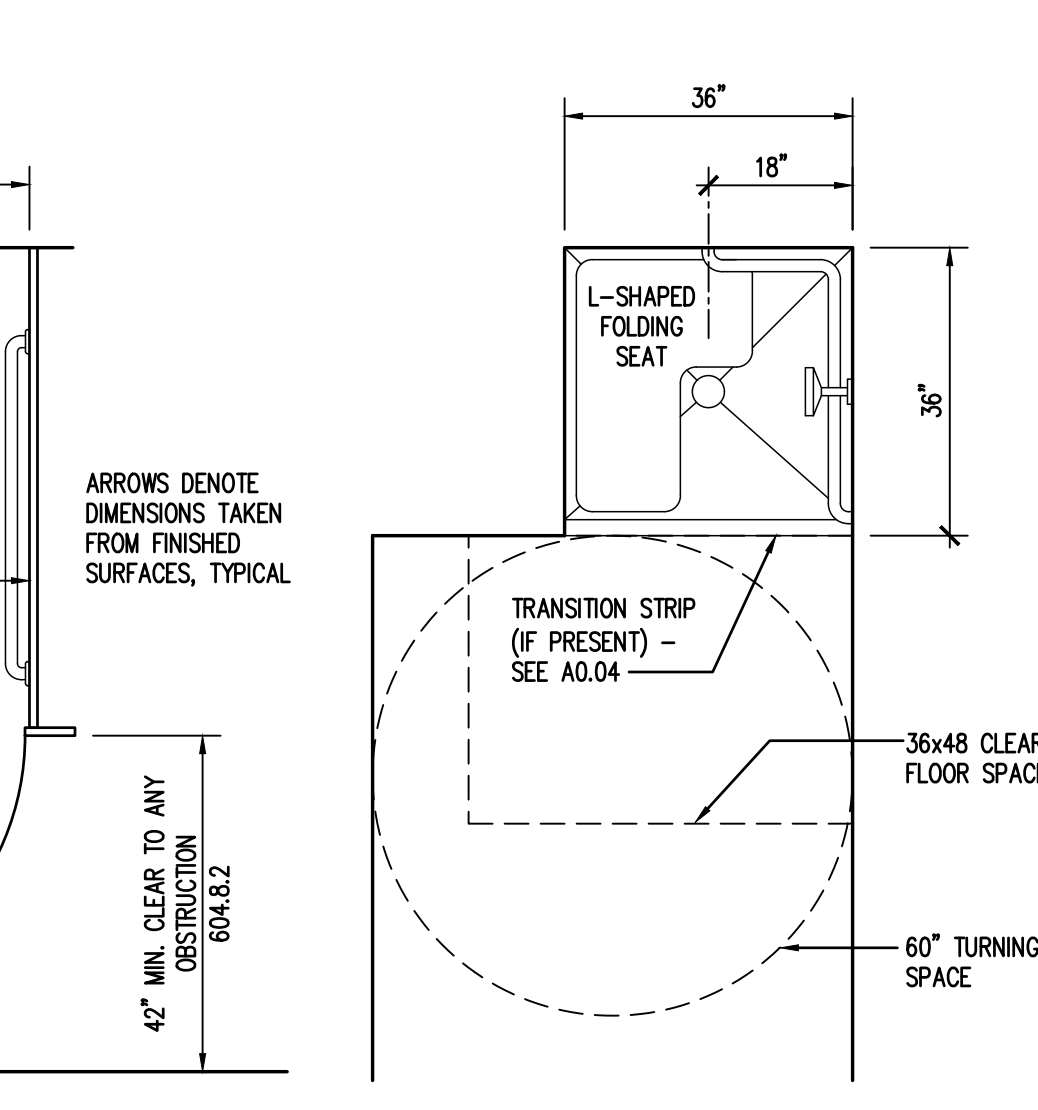


STAIR SIGN (OUTSIDE STAIR)

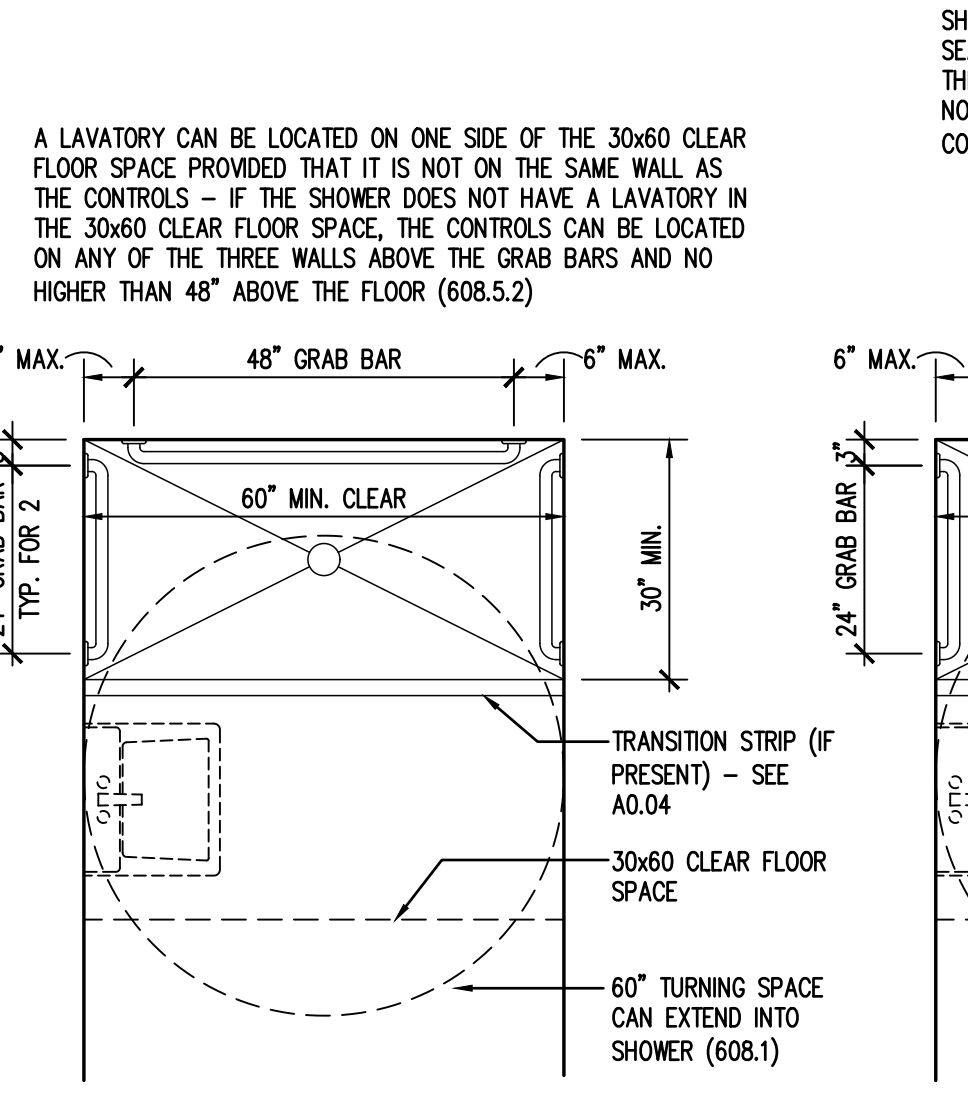


STAIR SIGN (INSIDE STAIR)

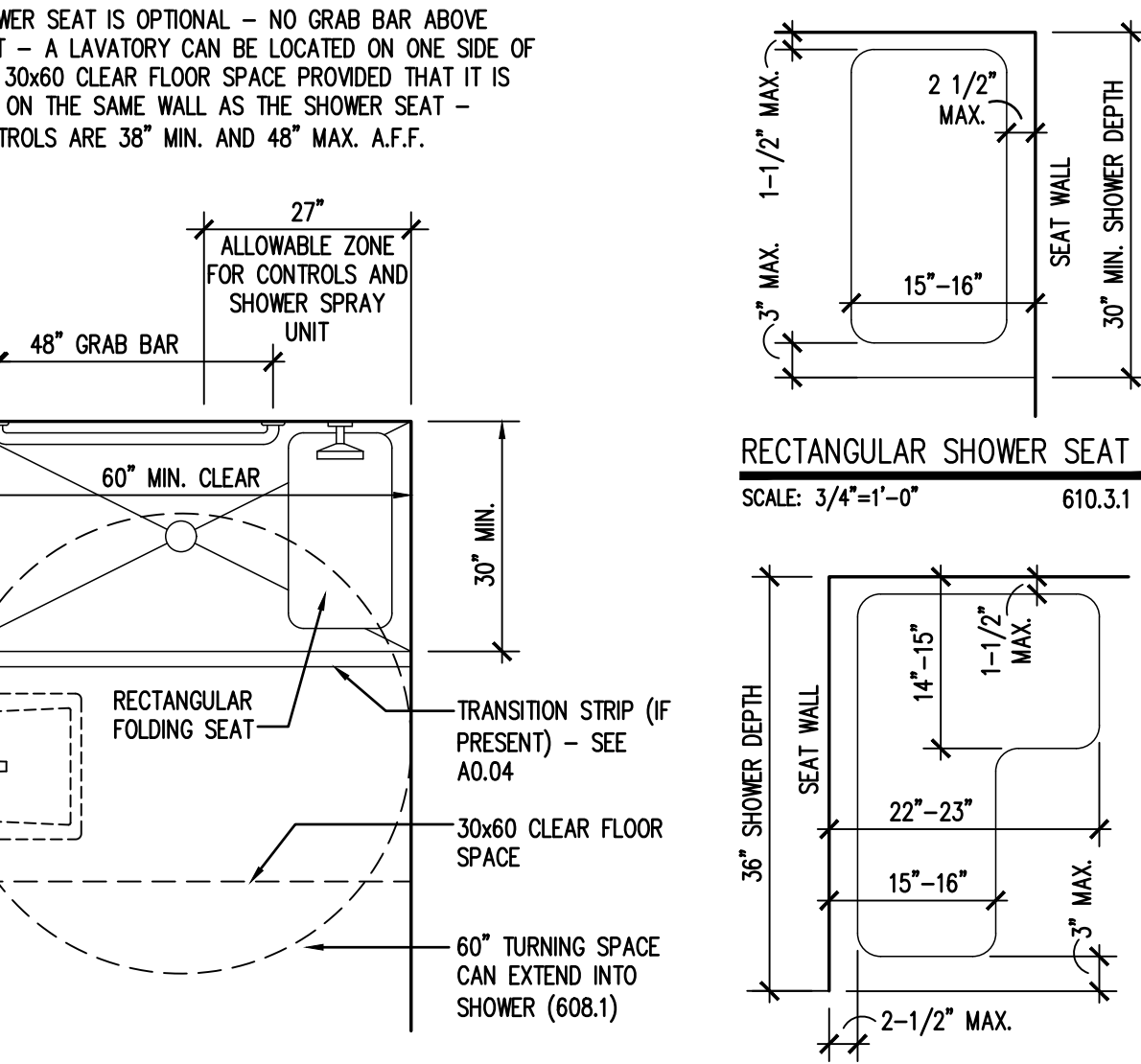
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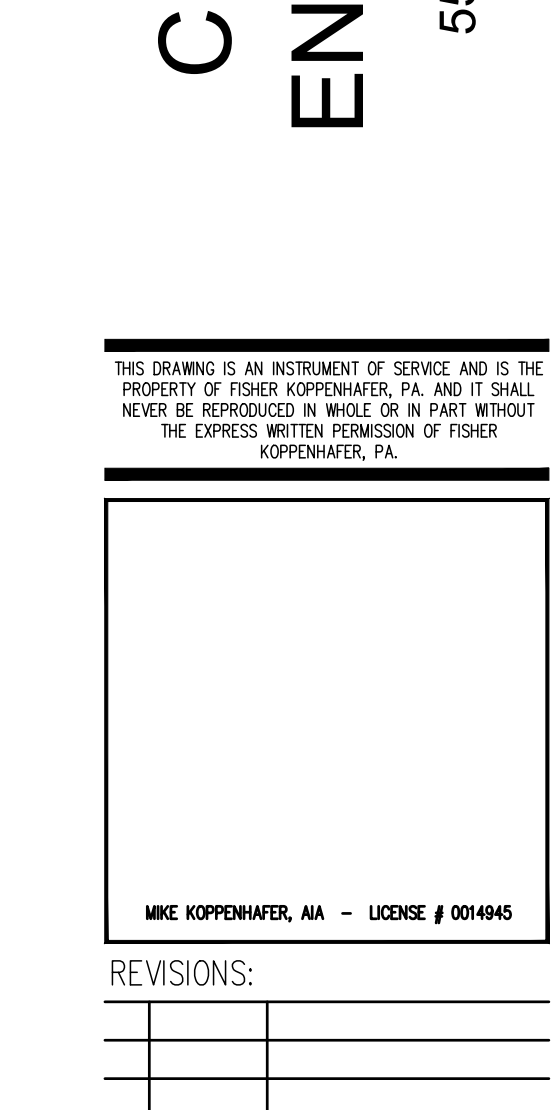
ACCESSIBLE TRANSFER TYPE SHOWER
SCALE: 1/2"=1'-0" 608.2.1



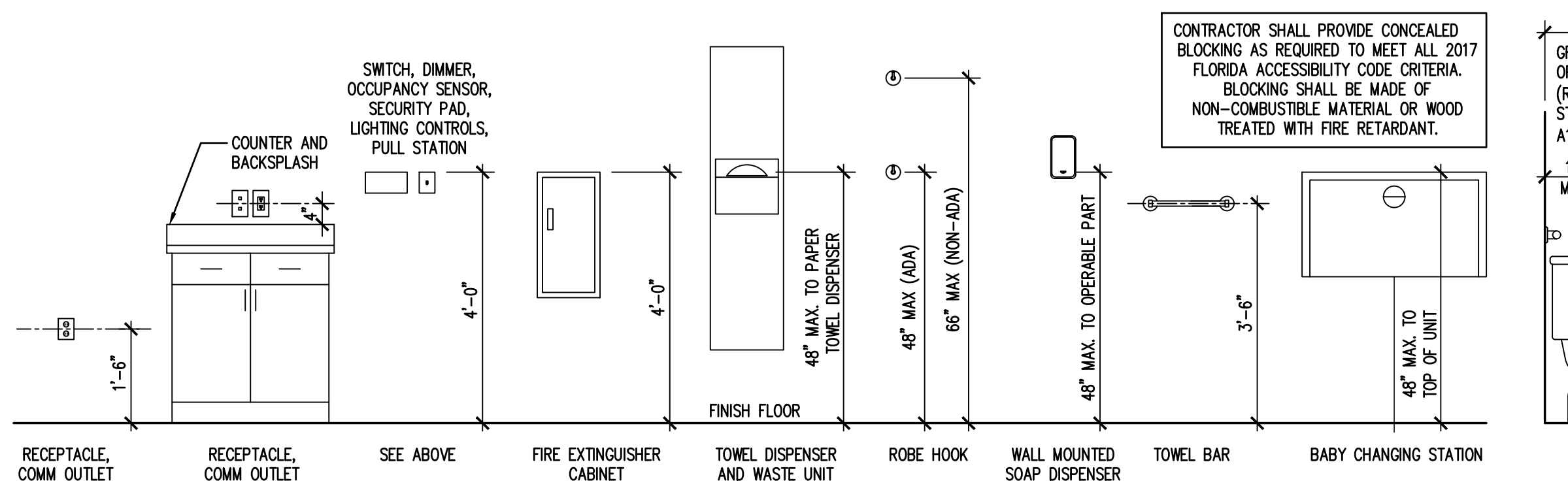
ACCESSIBLE ROLL-IN TYPE SHOWER WITHOUT SEAT
SCALE: 1/2"=1'-0" 608.2.2, 608.3(2)c



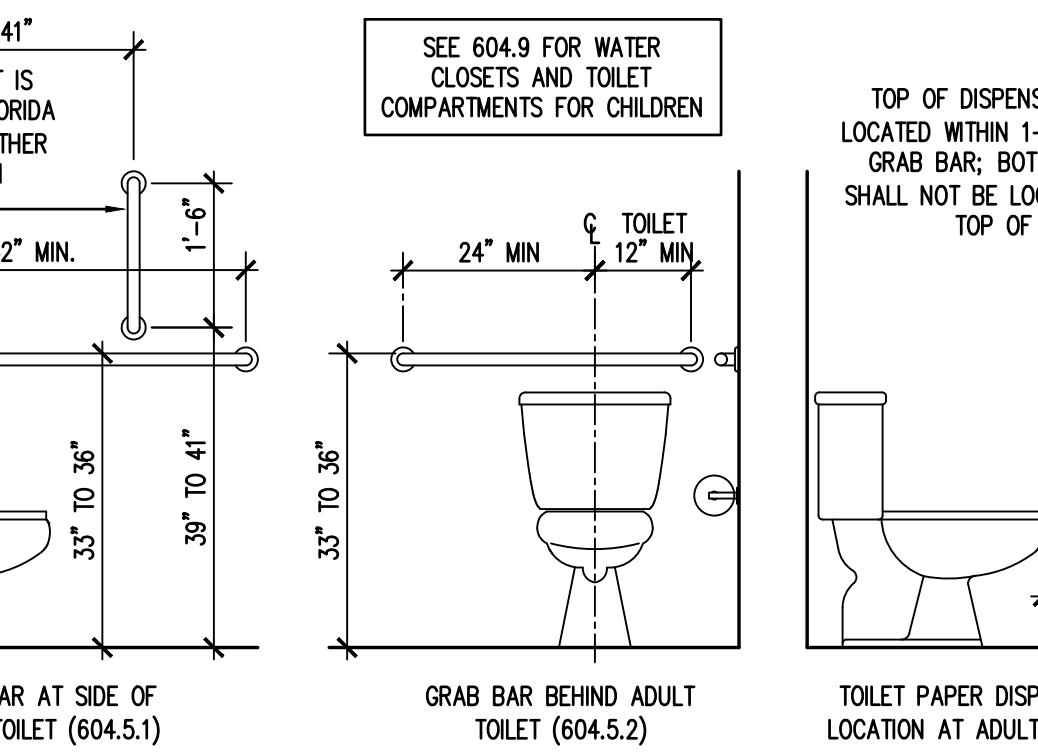
ACCESSIBLE ROLL-IN TYPE SHOWER WITH SEAT
SCALE: 1/2"=1'-0" 608.2.2, 608.3(2)b



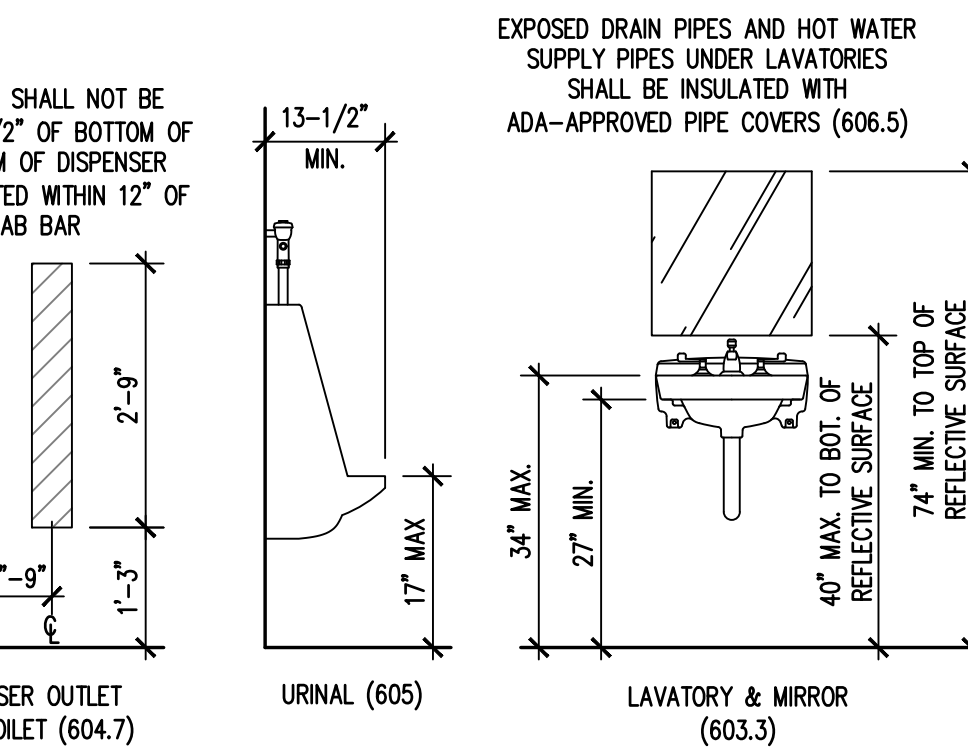
L-SHAPED SHOWER SEAT
SCALE: 3/4"=1'-0" 610.3.2



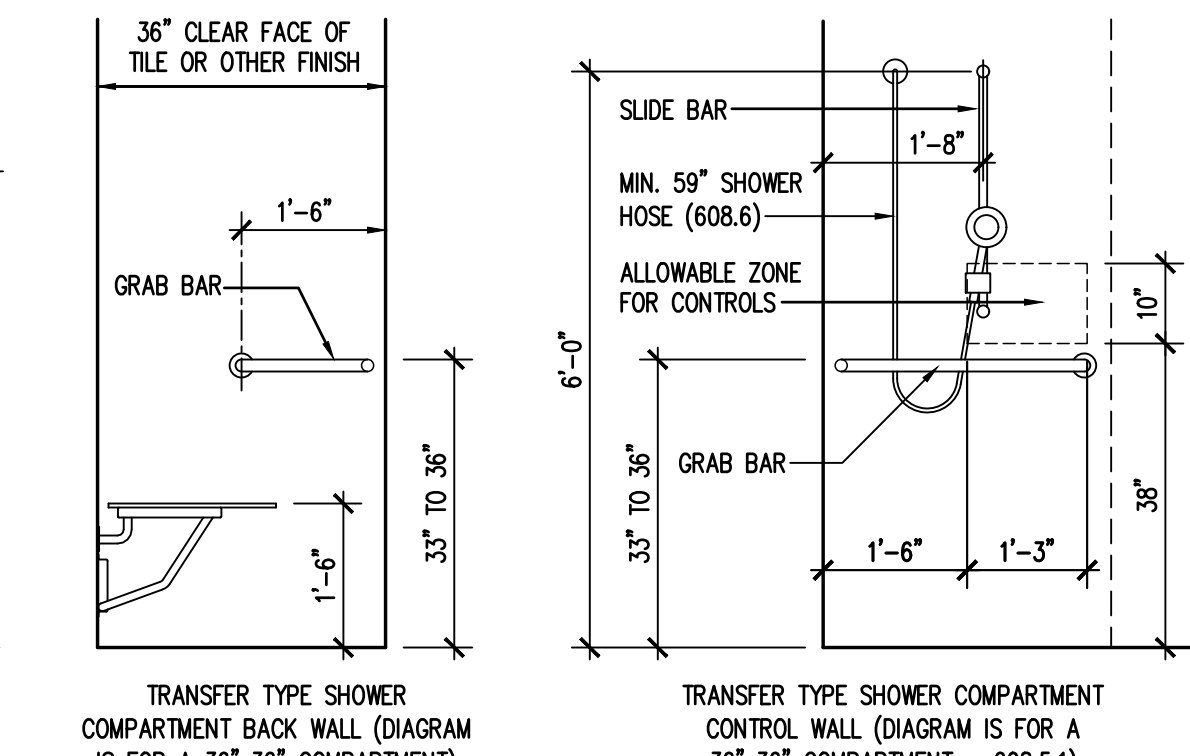
MOUNTING LOCATIONS
SCALE: 1/2"=1'-0"



GRAB BAR AT SIDE OF ADULT TOILET (604.5.1)



GRAB BAR BEHIND ADULT TOILET (604.5.2)



TOILET PAPER DISPENSER OUTLET LOCATION AT ADULT TOILET (604.7)

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ACCESSIBILITY REQUIREMENTS

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A0.53

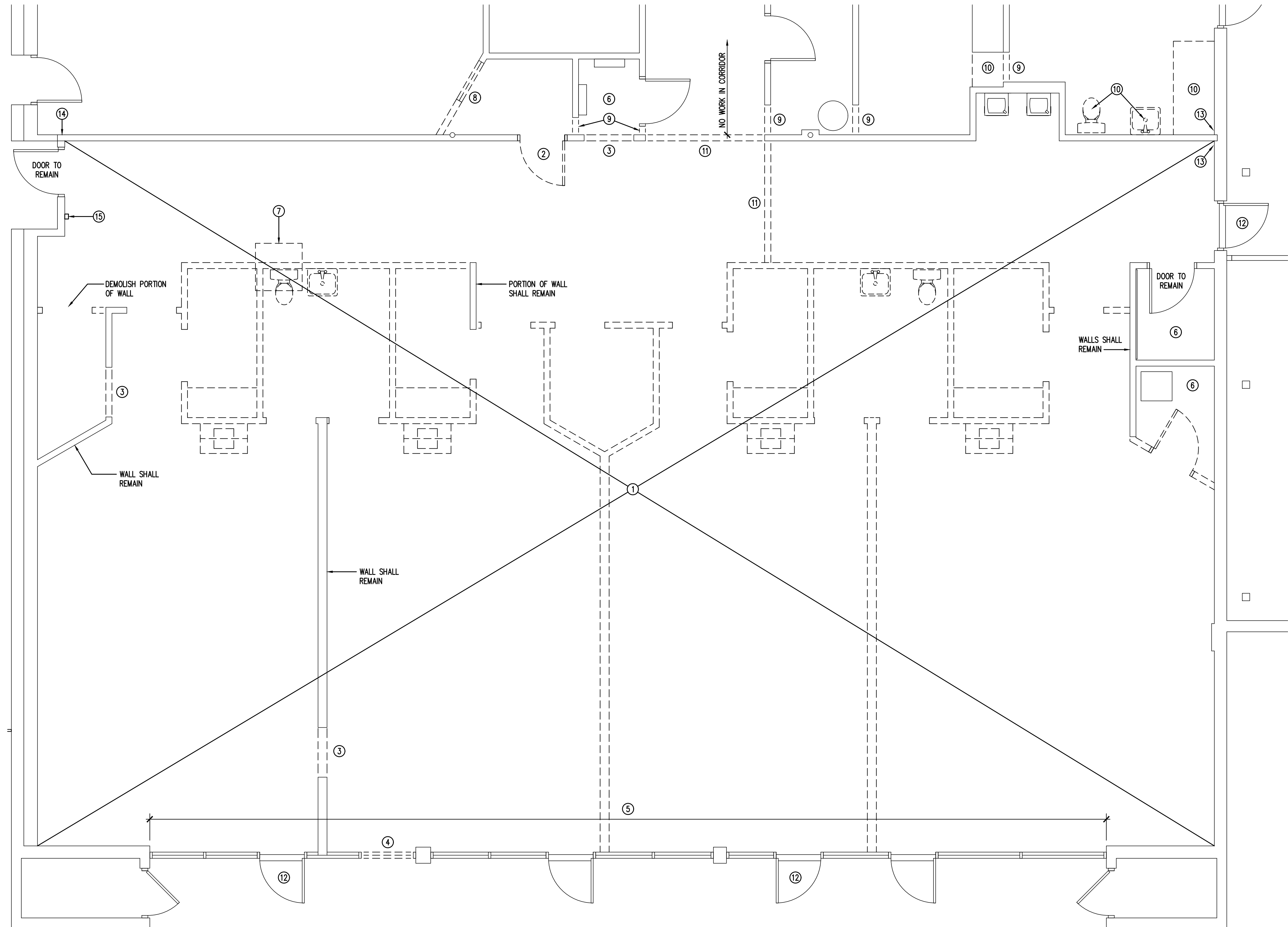
BID SET

GENERAL DEMOLITION NOTES

- A. THE INTENT OF THE DEMOLITION PLANS IS TO SHOW WHAT BUILDING COMPONENTS ARE TO BE DEMOLISHED. THE TERM "DEMOLISH" REFERS TO THE REMOVAL OF AN ITEM OR MATERIAL AND THE DISPOSAL OF THE ITEM OR MATERIAL OFF SITE. THE CONTRACTOR SHALL EXPLORE THE BUILDING AND SHALL BE FAMILIAR WITH MATERIALS AND PROCEDURES. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY POSSIBLE PROBLEMS OR DRAWING EXCLUSIONS PRIOR TO FINALIZING PRICING OR COMMENCING WORK. ITEMS AND DIMENSIONS SHOWN IN PLANS REFLECT FIELD VISITS BY ARCHITECT AND ENGINEERS AND MAY NOT ACCURATELY REPRESENT THE FIELD CONDITION. ELECTRONIC DOCUMENTATION OF THE BUILDINGS HAS BEEN RECREATED, IN PART, FROM FIELD MEASUREMENTS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH NEW CONSTRUCTION. PRIOR TO CONTINUATION OF WORK, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES WHICH ARISE AS CONSTRUCTION PROGRESSES.
- B. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING PRIOR TO COMMENCING CONSTRUCTION WITH THE ARCHITECT AND OWNER TO EXPLAIN HOW THE SCOPE OF WORK WAS ASCERTAINED FROM THESE DRAWINGS. THE CONTRACTOR SHALL ADDRESS ALL QUESTIONS PERTAINING TO DEMOLITION IN WRITING TO THE ARCHITECT IN RFI FORMAT. THE CONTRACTOR SHALL PROVIDE A SCHEDULE OF DEMOLITION. THE CONTRACTOR SHALL COORDINATE HOURS OF OPERATION WITH THE OWNER. THE CONTRACTOR SHALL COORDINATE DEMOLITION DUMPSTER LOCATION AND OTHER RELATED DEMOLITION LOGISTICS WITH THE OWNER PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR SHALL REMOVE DEMOLITION MATERIALS AT REGULAR INTERVALS, PREFERABLY DAILY, AND SHALL NOT ALLOW MATERIALS TO BUILD UP ON SITE.
- C. THE ARCHITECT AND ARCHITECT'S CONSULTANTS HAVE NO CONTROL OR RESPONSIBILITY OVER DEMOLITION MEANS, METHODS, TECHNIQUES, PROCEDURES AND SAFETY PRECAUTIONS IN CONNECTION WITH THE WORK PERFORMED BY THE CONTRACTOR.
- D. THE CONTRACTOR SHALL PROVIDE A THREE DAY NOTICE TO THE OWNER PRIOR TO COMPROMISING POWER, WATER OR OTHER BUILDING UTILITIES DURING THE DEMOLITION PROCESS.
- E. THE CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS FOR ANY ADDITIONAL DEMOLITION REQUIRED FOR COMPLETE INSTALLATION OF EACH SYSTEM. CONTRACTOR SHALL PROTECT CRITICAL BUILDING SYSTEMS INTENDED TO BE REUSED.
- F. CONTRACTOR SHALL NOT CUT OR MODIFY STRUCTURAL MEMBERS UNLESS INDICATED ON THE DRAWINGS OR BY PERMISSION OF THE ARCHITECT. CONTRACTOR SHALL VERIFY THAT WALLS AND PORTIONS OF WALLS TO BE DEMOLISHED ARE OR ARE NOT LOAD-BEARING.
- G. THE CONTRACTOR SHALL DEMOLISH AREAS DENOTED ON THE DRAWINGS AS EXISTING TO BE DEMOLISHED, INCLUDING, BUT NOT LIMITED TO: DEMOLITION OF INTERIOR STUD PARTITIONS, DOOR FRAMES, DOORS, CONDUIT/CABLING/WIRING, DUCTWORK, INSULATION, HANGERS, STRAPS AND OTHER ACCESSORY OBJECTS CONNECTED WITH THE ITEMS BEING REMOVED. THE CONTRACTOR SHALL PREPARE THE ITEM, SURFACE, OR SURROUNDING AREA TO RECEIVE NEW FINISH OR ITEMS.
- H. THE CONTRACTOR SHALL TERMINATE AND CAP PLUMBING LINES THAT ARE ABANDONED DURING DEMOLITION. THE CONTRACTOR SHALL REPAIR DAMAGED PLUMBING LINES THAT ARE REUSED IN COMPLIANCE WITH ALL STATE, LOCAL AND FEDERAL CODE STANDARDS.
- I. THE CONTRACTOR SHALL DISCONNECT ALL DEMOLISHED ELECTRICAL DEVICES AT THE SERVICE PANEL. THE CONTRACTOR SHALL REMOVE ALL ABANDONED CONDUIT AND WIRE, TYPICAL.
- J. THE CONTRACTOR SHALL PERFORM THE CUTTING OF MATERIALS IN A NEAT MANNER SO THAT THE PATCHING WILL SEAMLESSLY BLEND THE EXISTING AND NEW MATERIALS. THE CONTRACTOR SHALL USE PATCHING MATERIALS THAT ARE MOST SIMILAR TO THE EXISTING MATERIALS, AND THE WORK SHALL CONFORM TO THE ACCEPTED STANDARD OF WORKMANSHIP IN THE AREA.
- K. DEMOLISH ALL UNUSED ELECTRICAL DEVICE PLATES ON WALLS OF ALL 20 UNITS. PATCH GYPSUM BOARD TO MATCH EXISTING. THE BLANK DEVICE PLATES LOCATED IN THE LOW SOFFITS NEAR THE BEDROOM SMOKE DETECTOR SHALL REMAIN.

SPECIFIC DEMOLITION NOTES ①

- 1. DEMOLISH FLOORING (VCT AND CARPET), VINYL WALL BASE, MILLWORK, PLUMBING FIXTURES, CEILINGS (ACOUSTICAL AND GWB), BATT INSULATION ABOVE CEILING, LIGHT FIXTURES AND MECHANICAL DEVICES. DEMOLISH ALL CEILING AND WALL MOUNTED ELECTRICAL DEVICES EXCEPT IN THE ELECTRICAL CLOSETS (SEE NOTE 6) AND AS NOTED ON THE PLAN. DEMOLISH WALLS THAT ARE SHOWN DASHED.
- 2. REMOVE DOOR, FRAME AND HARDWARE (DISCARD PASSAGE SET) AND SAVE FOR REUSE AT DOOR NO. 115B.
- 3. DEMOLISH PORTION OF STUD WALL FOR NEW DOOR OPENING.
- 4. DEMOLISH PORTION OF ALUMINUM STOREFRONT SYSTEM BELOW TOP MULLION AT CEILING FOR NEW DOOR.
- 5. REMOVE WINDOW FILM FROM INTERIOR SIDE OF WINDOWS AND DOORS. REMOVE TAPE RESIDUE FROM SPANDREL PANELS AND CLEAN PANELS IN PREPARATION FOR PAINTING.
- 6. SEE ELECTRICAL SHEETS FOR SCOPE OF WORK IN THIS SPACE.
- 7. SAW CUT AND DEMOLISH PORTION OF CONCRETE SLAB FOR NEW SHOWER UNIT. COORDINATE WITH SHOWER UNIT PROVIDED.
- 8. DEMOLISH WALL TO PROVIDE CLEARANCE TO INSTALL TO COLUMN PROTECTION. SEE 7/A6.01. PATCH GWB AT FIRE RATED TENANT SEPARATION WALL.
- 9. DEMOLISH PORTION OF WALL AND PATCH GWB AT FIRE RATED TENANT SEPARATION WALL.
- 10. DEMOLISH PLUMBING FIXTURES AND MILLWORK.
- 11. DEMOLISH GWB HEADERS.
- 12. REMOVE EXTERIOR DOOR PULL AND PATCH FRAME.
- 13. DEMOLISH PORTION OF GWB ON BOTH SIDES OF WALL TO ALLOW ACCESS TO WALL INTERSECTION. SEE 14/A6.01.
- 14. DEMOLISH PORTION OF GWB ON BOTH SIDES OF WALL TO ALLOW ACCESS TO WALL INTERSECTION. SEE 1/A4.01.
- 15. EMERGENCY RELEASE PUSH BUTTON TO BE RELOCATED LOWER ON THE WALL. SEE 18/A5.01.



1 DEMOLITION PLAN
D2.01 1/4"=1'-0"

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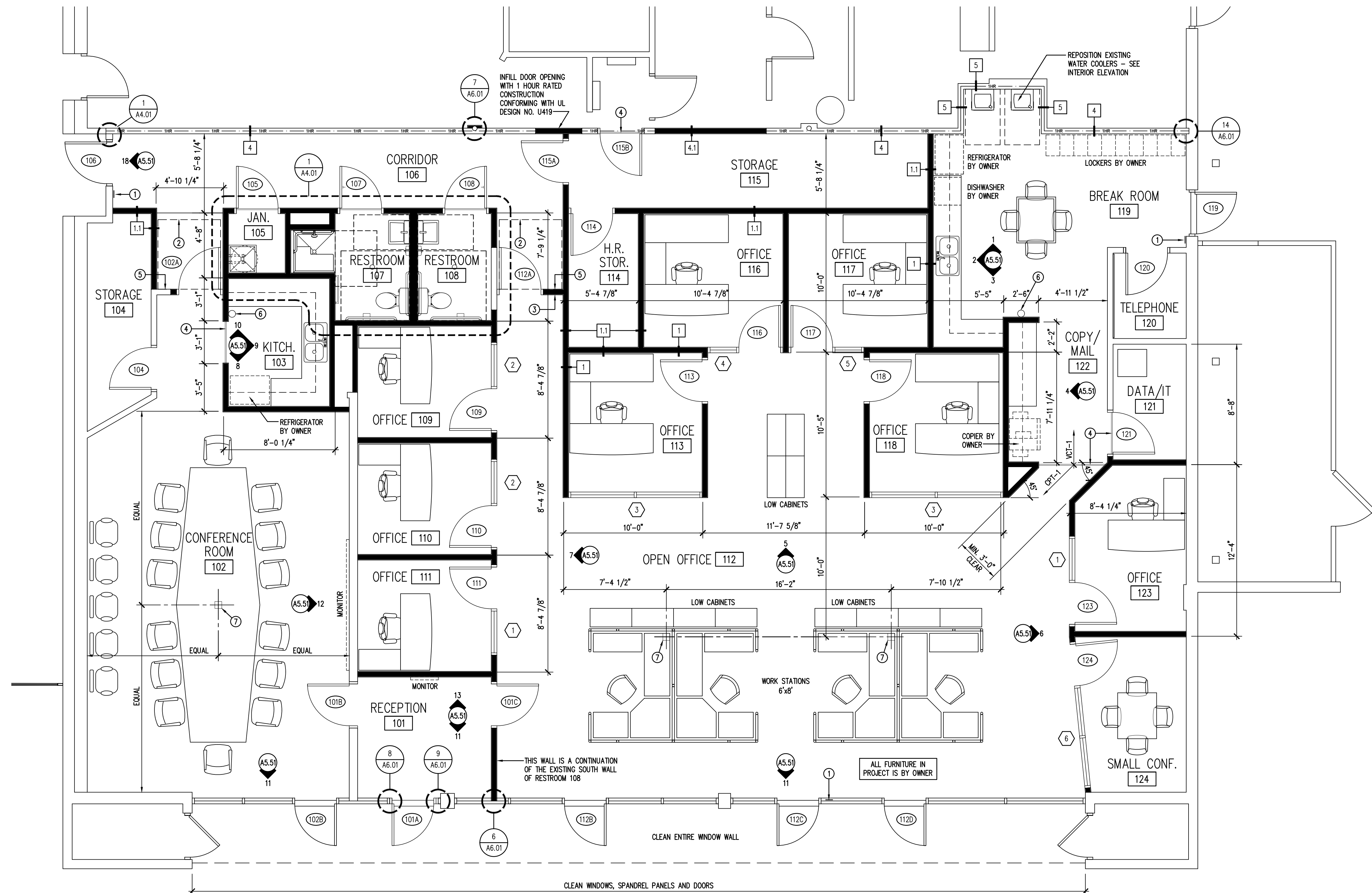
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DATE: 10/11/19

DEMOLITION PLAN

DRAWN BY: DND
CHECKED BY: MSK
PROJECT NO.: 2019-22

D2.01
BID SET



1 FLOOR PLAN
A2.01 1/4"=1'-0"

- GENERAL PLAN NOTES
- A. ALL NEW PARTITIONS ARE TYPE '1' UNLESS TAGGED OTHERWISE ON PLAN.
- PLAN NOTES ①
- TACTILE EXIT SIGN - SEE A4.01
 - CLEARANCE REQUIRED FOR A FRONT APPROACH, PULL SIDE
 - THE WALL AT DOOR 112A SHALL ALIGN WITH THE WALL AT DOOR 102A.
 - TRANSITION STRIP
 - 1'-6" MINIMUM CLEAR FROM EDGE OF DOOR TO FACE OF G.W.B.
 - FIRE EXTINGUISHER MOUNTED 48" TO TOP.
 - POWER/DATA BOX RECESSED IN SLAB - CONTRACTOR SHALL CONFIRM LOCATION WITH OWNER

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REVISIONS:

NO.	DESCRIPTION

DATE: 10/11/19

FLOOR PLAN

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A2.01

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REFLECTED CEILING PLAN

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A3.01
 BID SET

REFLECTED CEILING PLAN KEY

	2x2' CEILING SUSPENSION SYSTEM WITH ACOUSTICAL LAY-IN PANELS
	SAG-RESISTANT GYPSUM BOARD CEILING, HARDFRAMED
	2x2 OR 2x4 RECESSED LED TROFFER
	RECESSED LED DOWNLIGHT
	OCCUPANCY SENSOR
	EXIT SIGN - WALL MOUNTED
	EXIT SIGN - CEILING MOUNTED
	MECHANICAL DEVICES

GENERAL RCP NOTES

- REFER TO ELECTRICAL DRAWINGS FOR FIXTURE DESIGNATIONS AND SPECIFICATIONS. REFER TO ELECTRICAL DRAWINGS FOR DEVICES NOT SHOWN ON ARCHITECTURAL PLANS SUCH AS HEAT AND SMOKE DETECTORS.
- CONTRACTOR SHALL COORDINATE ALL FIXTURE TYPES AND LOCATIONS WITH ARCHITECTURAL AND ENGINEERING DRAWINGS. ANY DISCREPANCIES SHALL BE CLARIFIED WITH ARCHITECT PRIOR TO FINAL PRICING.
- CONTRACTOR SHALL COORDINATE CEILING PENETRATIONS WITH ALL TRADES AND SHALL NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO INSTALLATION. IF FIXTURES OR DEVICES ARE NOT SHOWN ON THE PLANS, NOTIFY ARCHITECT AND COORDINATE PROPER LOCATION(S). ANY PENETRATION OF A FIRE RATED ASSEMBLY SHALL BE FIRE CAULKED PER CODE.
- ALL DOWN LIGHTS AND OTHER SMALL DEVICES SHALL BE CENTERED ON ACOUSTICAL TILES. EXISTING SPRINKLER HEADS SHALL BE REPOSITIONED TO BE CENTERED ON ACOUSTICAL TILES.

SPECIFIC RCP NOTES ①

- NEW 5" FIRE RETARDANT R-30 CLOSED CELL SPRAY FOAM INSULATION AT UNDERSIDE OF ROOF THROUGHOUT THE ENTIRE SUITE (3,769 SF) - INSULATION SHALL CONFORM WITH FBC CH. 26 - ROOF IS FLAT - STRUCTURE IS STEEL BAR JOISTS WITH A BOARD TYPE DECK (NOT CORRUGATED METAL)
- HEADER AT 7'-0"



1 REFLECTED CEILING PLAN
 A3.01 1/4"=1'-0"

DOOR HARDWARE GROUPS

SET #1 DOOR 101A

NEW EXTERIOR ALUMINUM STOREFRONT DOOR. PROVIDE CYLINDER AS REQUIRED. BALANCE OF HARDWARE PROVIDED BY DOOR MANUFACTURER INCLUDING ACCESSIBLE THRESHOLD. DOOR PUSH AND PULL SHALL MATCH EXISTING DOORS.

SET #2 DOOR 120

EXISTING HARDWARE TO REMAIN.

SET #3 DOORS 102A, 109, 110, 111, 112A, 113, 116, 117, 118, 123, 124

3 HINGES
OFFICE TYPE LEVER LOCKSET
1 CLOSER
1 WALL BUMPER

SET #4 DOORS 102B, 112C, 119

EXISTING ALUMINUM STOREFRONT. REMOVE EXTERIOR PULL AND PATCH FRAME. INSTALL NEW STOREFRONT LEVER TYPE LOCKSET. LATCHBOLT RETRACTED BY KEY OUTSIDE OR BY LEVER INSIDE. OUTSIDE LEVER IS ALWAYS INOPERATIVE. INSIDE LEVER IS ALWAYS FREE FOR IMMEDIATE EGRESS. EXISTING THUMBTURN DEADBOLT MAY BE LEFT IN PLACE BUT MUST ALWAYS BE UNLOCKED DURING BUSINESS HOURS.

SET #5 DOORS 101B, 101C, 104, 105, 114, 115A, 121

3 HINGES
STOREFRONT LEVER TYPE LOCKSET. LATCHBOLT RETRACTED BY KEY OUTSIDE OR BY LEVER INSIDE. OUTSIDE LEVER IS ALWAYS INOPERATIVE. INSIDE LEVER IS ALWAYS FREE FOR IMMEDIATE EGRESS.
1 WALL BUMPER (EXCEPT FOR DOOR 105)

SET #6 DOOR 106

EXISTING HARDWARE TO REMAIN. NOTE THAT DOOR HAS AN EMERGENCY RELEASE PUSH BUTTON LOCATED 61.5" ABOVE THE FLOOR. THE BUTTON SHALL BE MOVED SUCH THAT IT IS NO MORE THAN 48" ABOVE THE FLOOR.

SET #7 DOOR 107, 108

3 HINGES
1 LEVER TYPE PRIVACY SET
1 WALL BUMPER FOR DOOR 107 ONLY

SET #8 DOORS 112B, 112D

EXISTING HARDWARE TO REMAIN.

SET #9 DOOR 115B

REUSE EXISTING HARDWARE FROM ADJACENT DOOR EXCEPT DISCARD PASSAGE SET AND PROVIDE A NEW STOREFRONT LOCK.

TOILET ACCESSORY SCHEDULE			
NO SUBSTITUTIONS			
MK.	ITEM	MANUFACTURER	MODEL
A	TOWEL DISPENSER/WASTE RECEPTACLE - RECESSED	BOBRICK	B-369
B	TOILET TISSUE DISPENSER - SURFACE MTD.	BOBRICK	B-2888
C	SOAP DISPENSER - SURFACE MOUNTED	BOBRICK	B-2112
D	MIRROR - HANDICAP	BOBRICK	B-293 1836
E	GRAB BAR - CONCEALED MOUNTING	BOBRICK	B-6806x36 B-6806x42
F	COAT HOOK	BOBRICK	B-211
G	TOWEL DISPENSER - SURFACE MOUNTED	BOBRICK	B-2620
H	TOWEL BAR	BOBRICK	B-6737x24

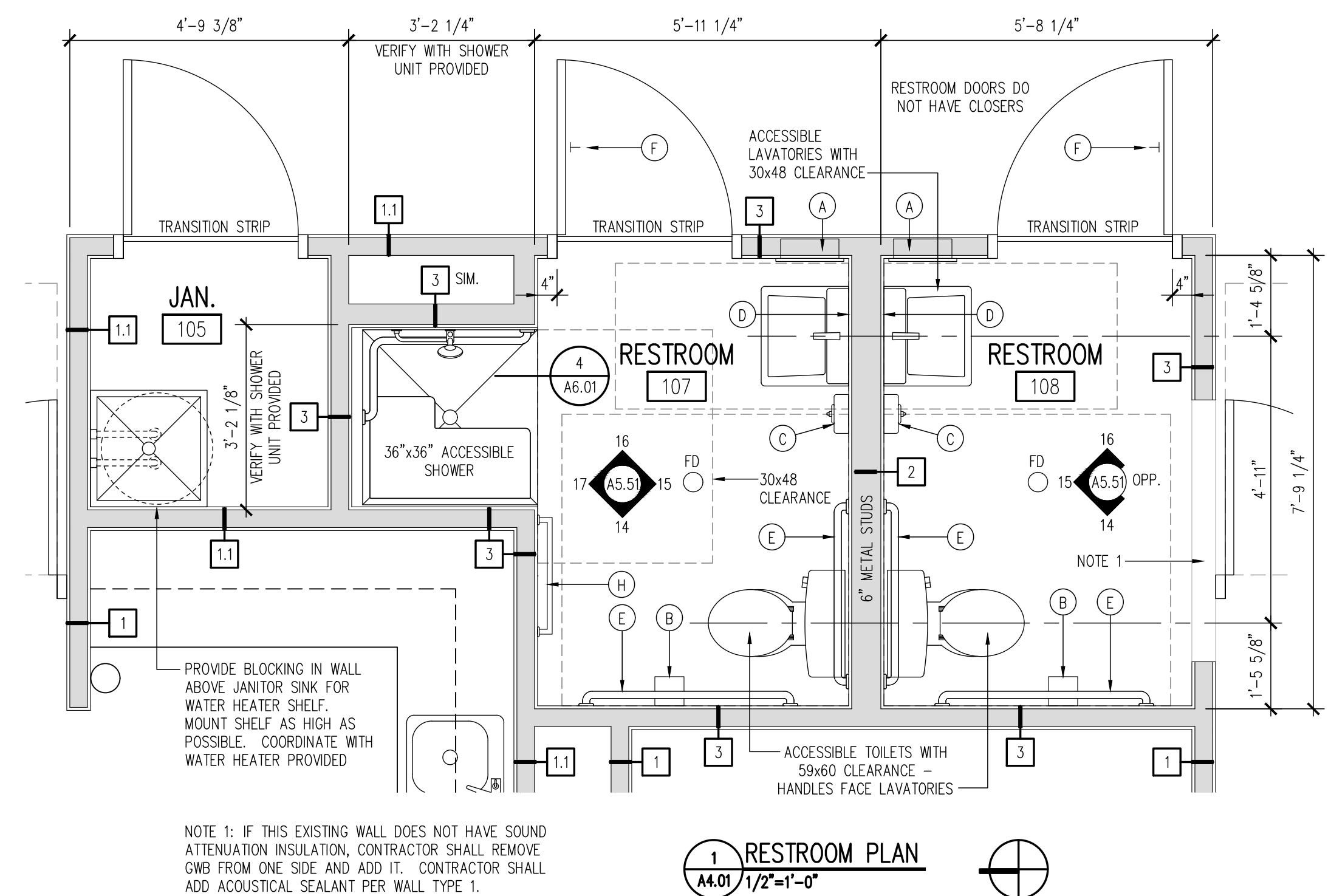
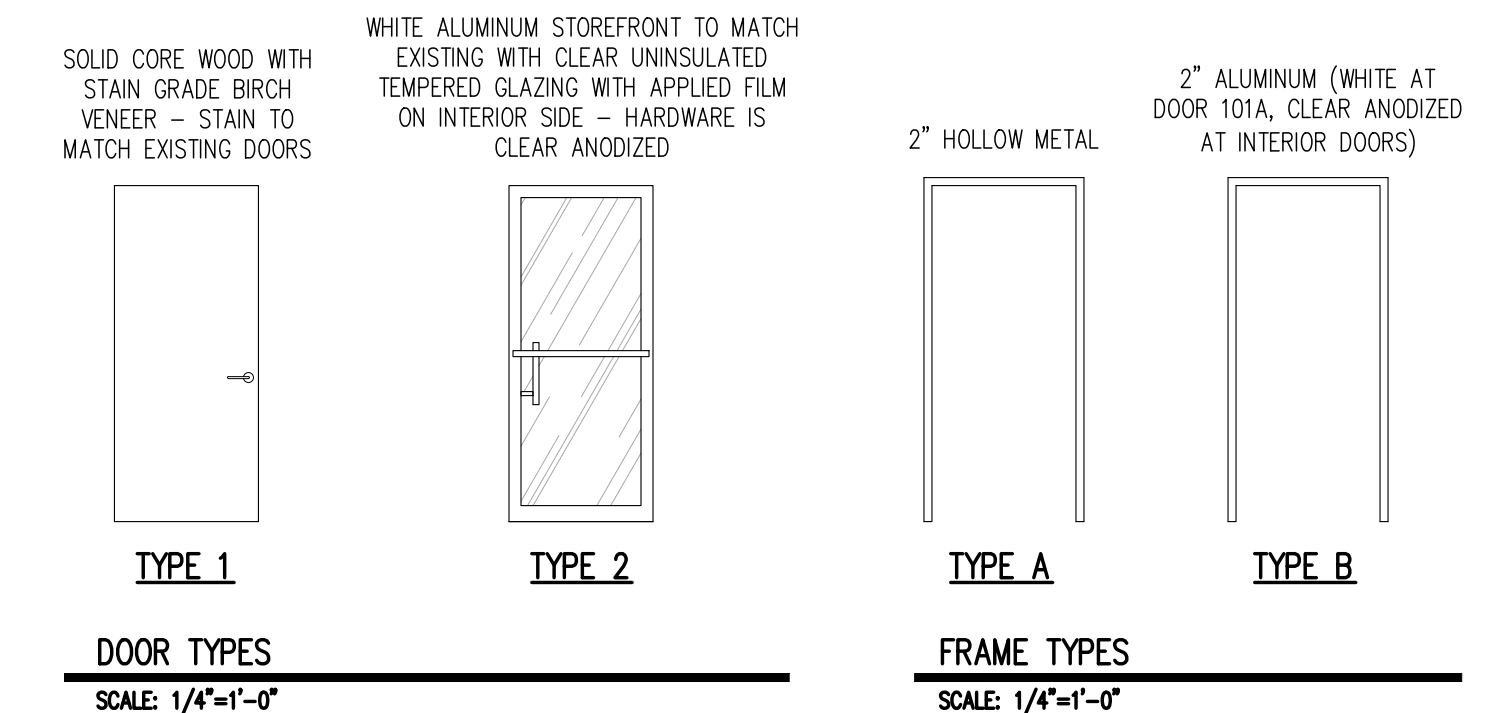
DOOR SCHEDULE												
MARK	DOOR SIZE		DOOR			FRAME			HARDWARE GROUP	REMARKS	FIRE RATING	
	WIDTH	HEIGHT	# OF LEAVES	TYPE	MATERIAL	TYPE	MATERIAL	HEAD				JAMB
101A	3'-0"	7'-0"	1	2	ALUM/GLASS			10/A6.01	8,9/A6.01		1	
101B	3'-0"	7'-0"	1	1	WOOD	B	ALUM	12/A6.01	12/A6.01		5	
101C	3'-0"	7'-0"	1	1	WOOD	B	ALUM	12/A6.01	12/A6.01		5	
102A	3'-0"	7'-0"	1	1	WOOD	A	HM	13/A6.01	13/A6.01		3	
102B											4	EXISTING ALUMINUM STOREFRONT - NOTE 1
104	3'-0"	7'-0"	1	1	WOOD	A	HM	13/A6.01	13/A6.01		5	UNDERCUT 3/4"
105	3'-0"	7'-0"	1	1	WOOD	A	HM	13/A6.01	13/A6.01		5	
106											6	EXISTING WOOD DOOR
107	3'-0"	7'-0"	1	1	WOOD	A	HM	13/A6.01	13/A6.01		7	
108	3'-0"	7'-0"	1	1	WOOD	A	HM	13/A6.01	13/A6.01		7	
109	3'-0"	7'-0"	1	1	WOOD	B	ALUM	12/A6.01	12/A6.01		3	
110	3'-0"	7'-0"	1	1	WOOD	B	ALUM	12/A6.01	12/A6.01		3	
111	3'-0"	7'-0"	1	1	WOOD	B	ALUM	12/A6.01	12/A6.01		3	
112A	3'-0"	7'-0"	1	1	WOOD	A	HM	13/A6.01	13/A6.01		3	UNDERCUT 3/4"
112B											8	EXISTING ALUMINUM STOREFRONT - NOTE 1
112C											4	EXISTING ALUMINUM STOREFRONT - NOTE 1
112D											8	EXISTING ALUMINUM STOREFRONT - NOTE 1
113	3'-0"	7'-0"	1	1	WOOD	B	ALUM	12/A6.01	12/A6.01		3	
114	3'-0"	7'-0"	1	1	WOOD	A	HM	13/A6.01	13/A6.01		5	UNDERCUT 3/4"
115A	3'-0"	7'-0"	1	1	WOOD	A	HM	13/A6.01	13/A6.01		5	UNDERCUT 3/4"
115B	3'-0"	7'-0"	1	1	WOOD	A	HM	13/A6.01	13/A6.01		9	45 MIN.
116	3'-0"	7'-0"	1	1	WOOD	B	ALUM	12/A6.01	12/A6.01		3	
117	3'-0"	7'-0"	1	1	WOOD	B	ALUM	12/A6.01	12/A6.01		3	
118	3'-0"	7'-0"	1	1	WOOD	B	ALUM	12/A6.01	12/A6.01		3	
119											4	EXISTING ALUMINUM STOREFRONT
120											2	EXISTING WOOD DOOR
121	3'-0"	7'-0"	1	1	WOOD	A	HM	13/A6.01	13/A6.01		5	
123	3'-0"	7'-0"	1	1	WOOD	B	ALUM	12/A6.01	12/A6.01		3	
124	3'-0"	7'-0"	1	1	WOOD	B	ALUM	12/A6.01	12/A6.01		3	

GENERAL DOOR SCHEDULE NOTES

- PROVIDE SILENCERS AT ALL SWING DOOR FRAMES.
- EXISTING ALUMINUM STOREFRONT DOORS: CLEAN DOORS AND FRAMES. REMOVE TAPE RESIDUE AND PAINT IF PRESENT.

SPECIFIC DOOR SCHEDULE NOTES

- REMOVE WINDOW FILM FROM INTERIOR FACE AND APPLY NEW FILM.



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DOOR SCHEDULE AND ENLARGED RESTROOM PLAN

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A4.02
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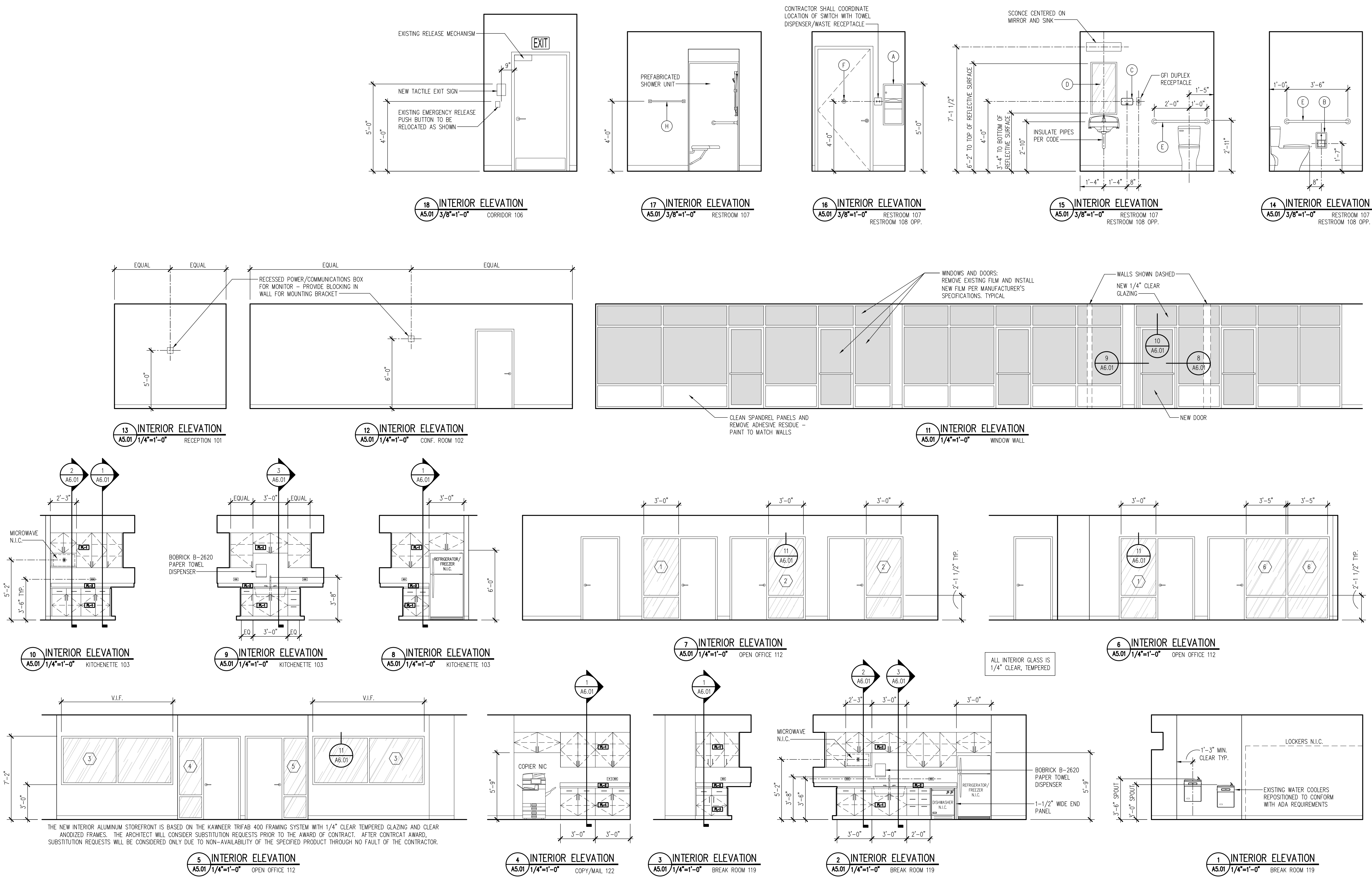
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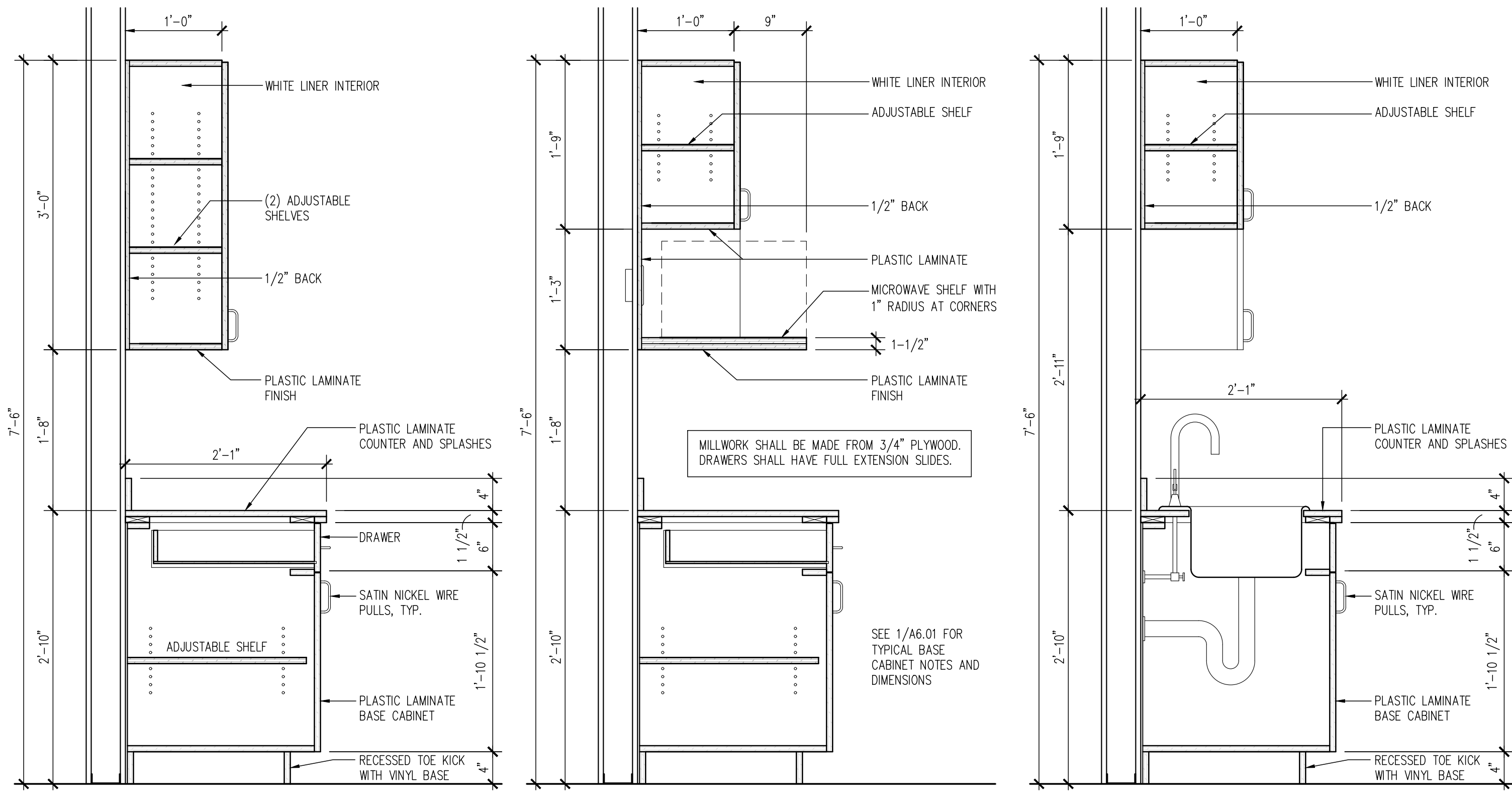
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 CHECKED BY: MSK
 PROJECT NO.: 2019-22

A5.01
 BID SET



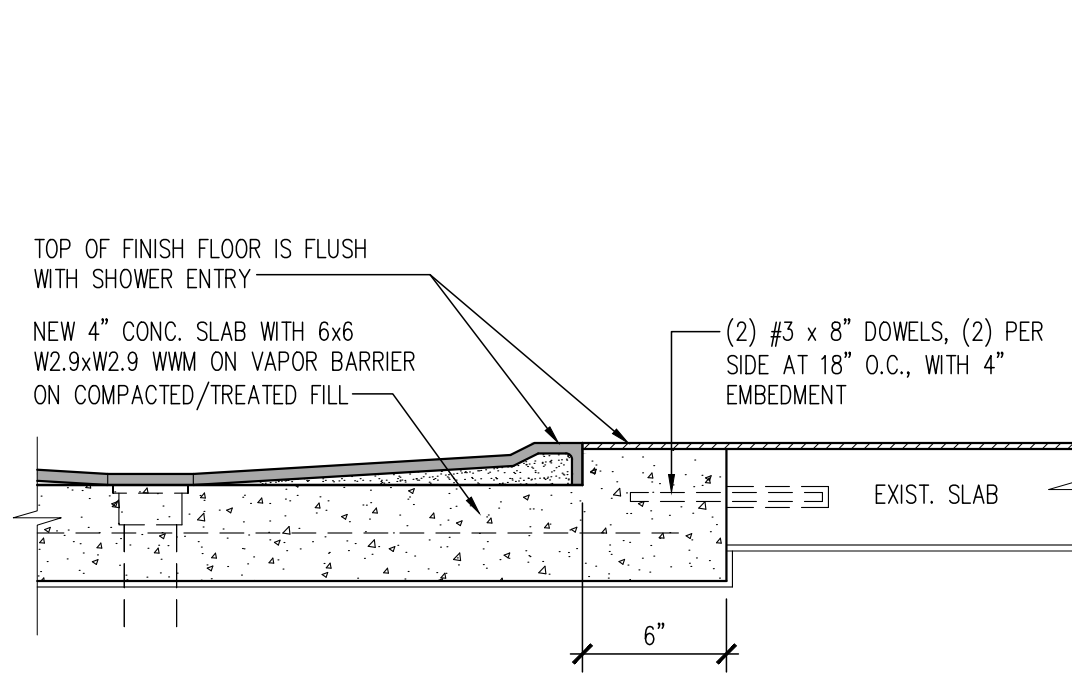
THE NEW INTERIOR ALUMINUM STOREFRONT IS BASED ON THE KAWNEER TRIFAB 400 FRAMING SYSTEM WITH 1/4" CLEAR TEMPERED GLAZING AND CLEAR ANODIZED FRAMES. THE ARCHITECT WILL CONSIDER SUBSTITUTION REQUESTS PRIOR TO THE AWARD OF CONTRACT. AFTER CONTRACT AWARD, SUBSTITUTION REQUESTS WILL BE CONSIDERED ONLY DUE TO NON-AVAILABILITY OF THE SPECIFIED PRODUCT THROUGH NO FAULT OF THE CONTRACTOR.



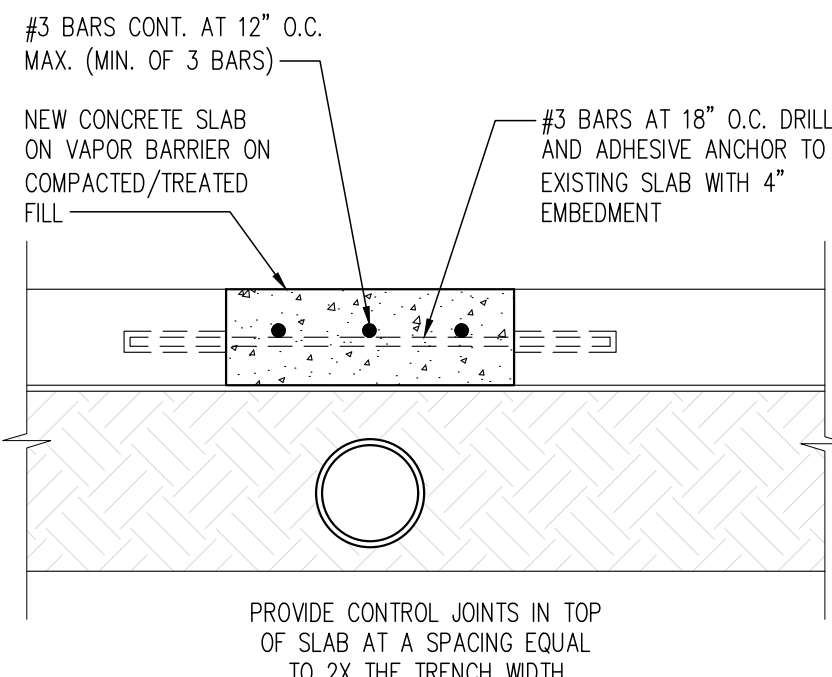
1 TYPICAL MILLWORK
A8.01 1'-1'-0"

2 MILLWORK AT MICROWAVE
A8.01 1'-1'-0"

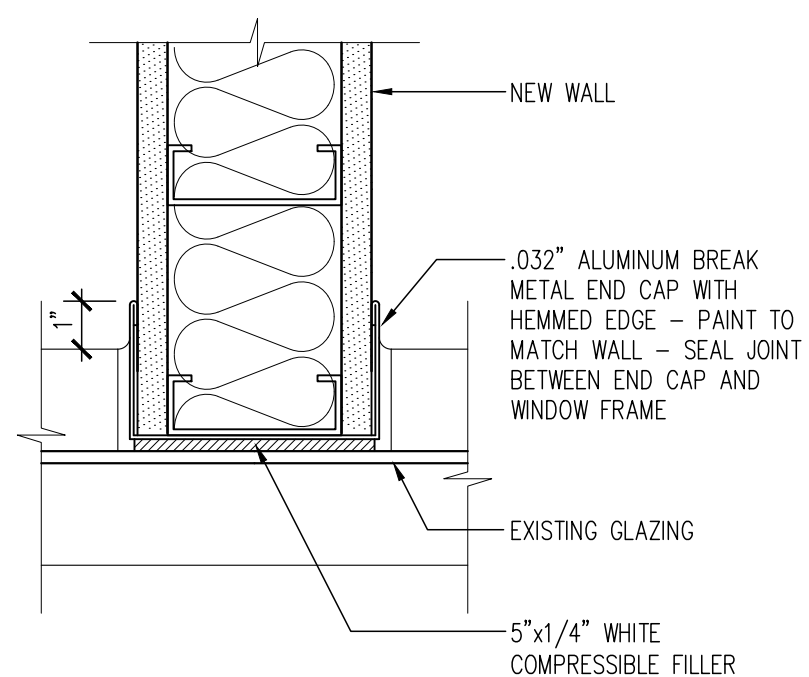
3 MILLWORK AT SINK
A8.01 1'-1'-0"



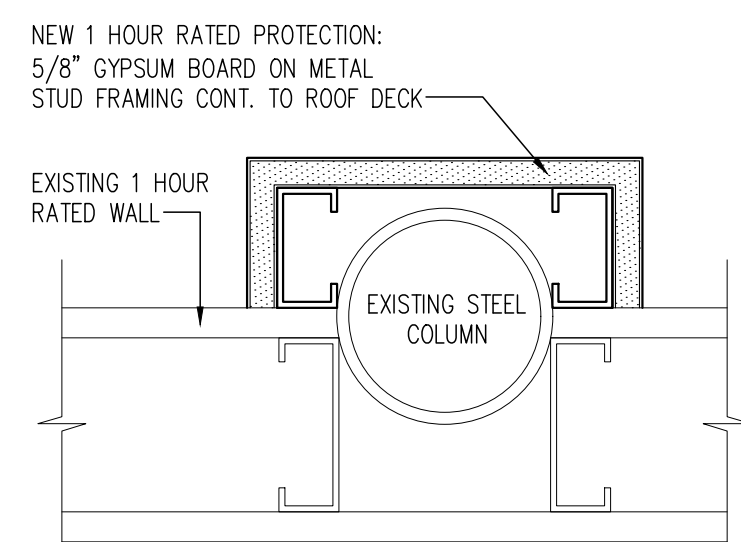
4 RECESSED SLAB AT SHOWER
A8.01 1'-1'-0"



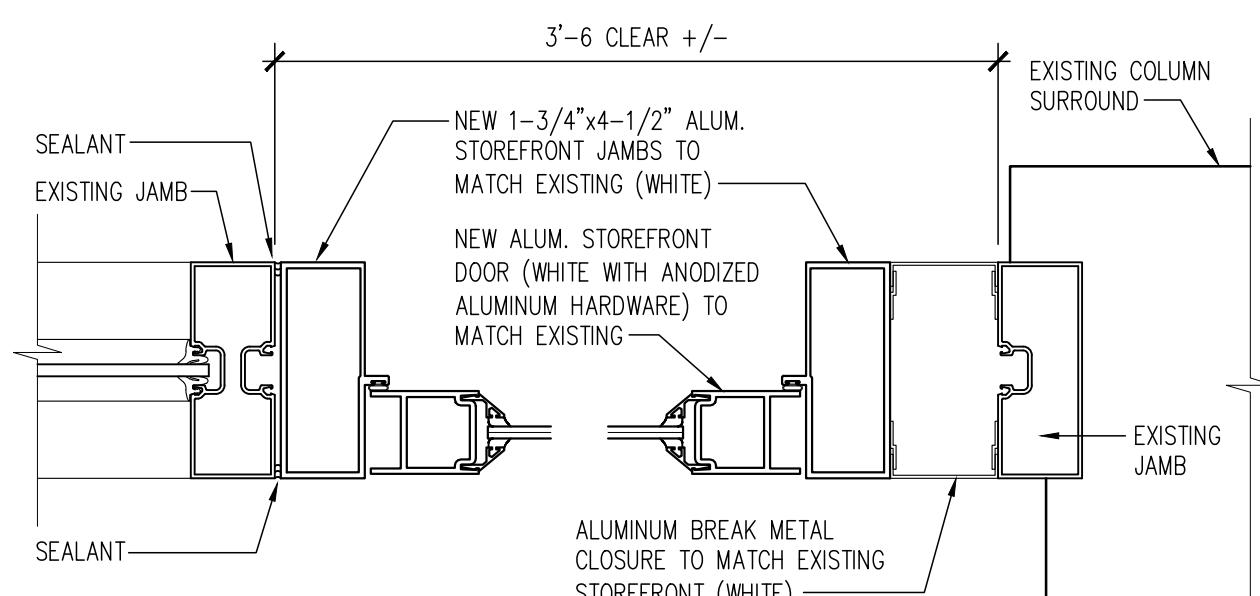
5 SLAB REPAIR DETAIL AT PLUMBING TRENCH
A8.01 1'-1'-0"



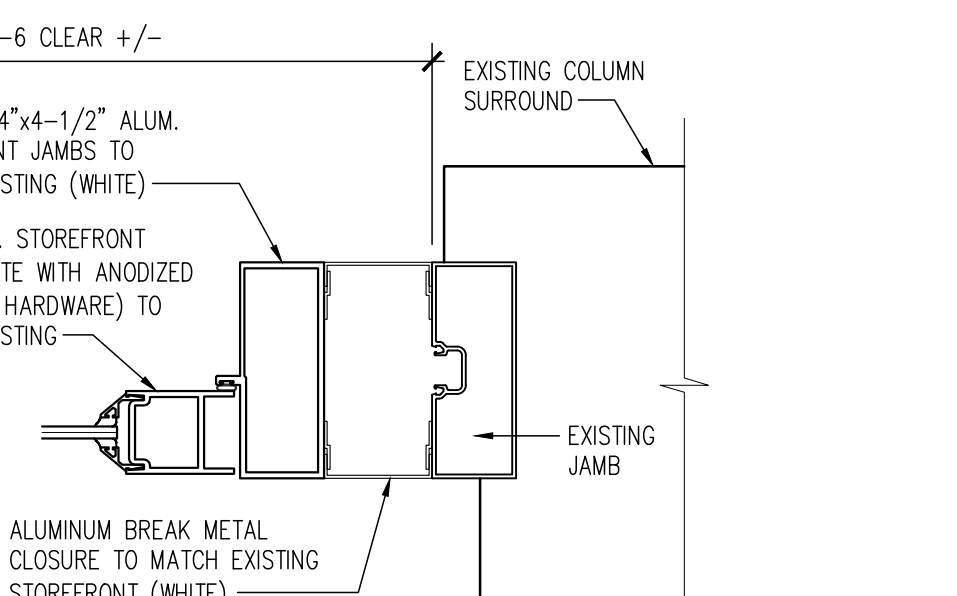
6 WALL END CAP
A8.01 3'-1'-0"



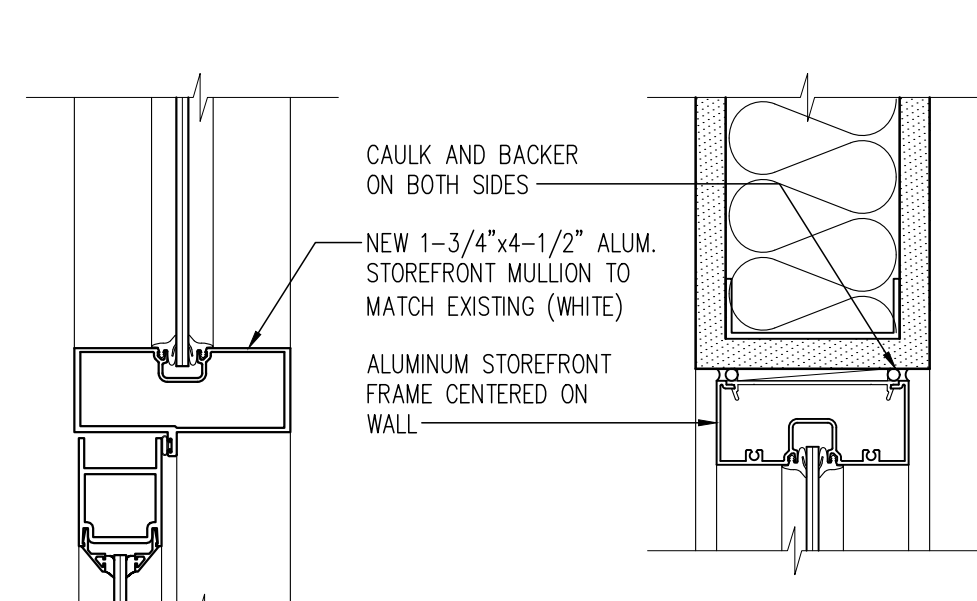
7 COLUMN PROTECTION
A8.01 3'-1'-0"



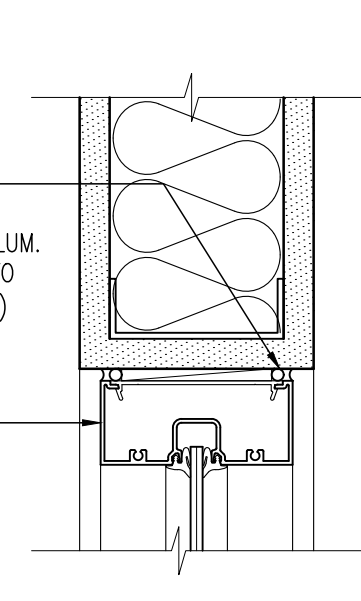
8 DOOR JAMB
A8.01 3'-1'-0"



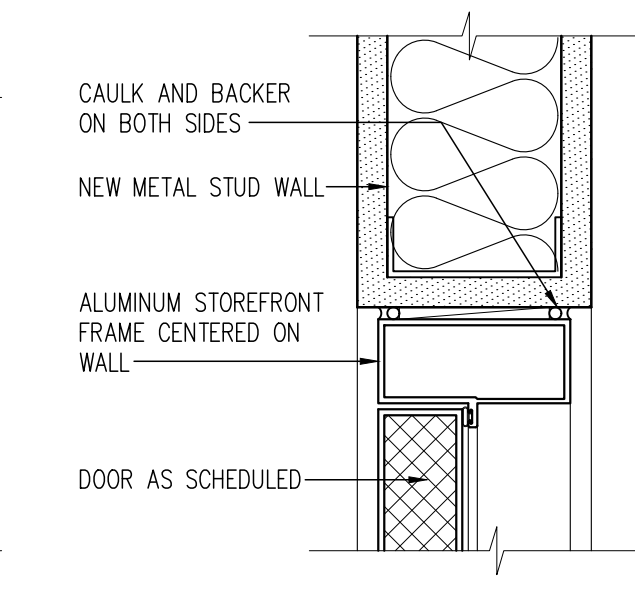
9 DOOR JAMB
A8.01 3'-1'-0"



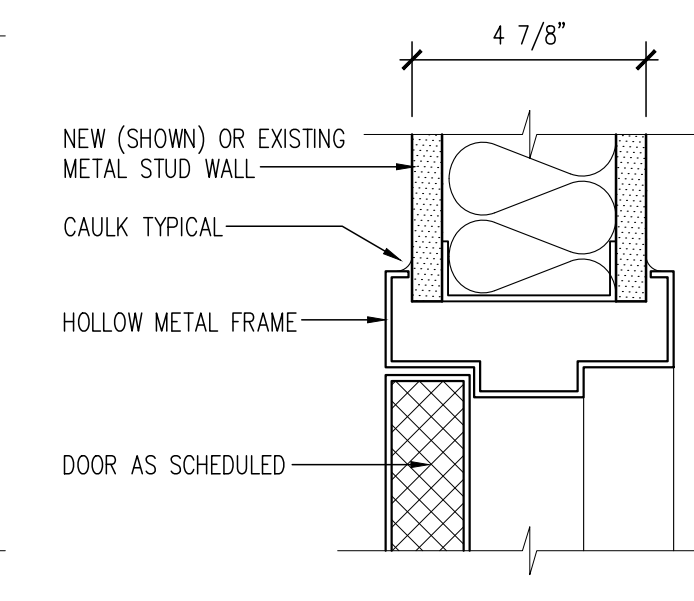
10 DOOR HEAD
A8.01 3'-1'-0"



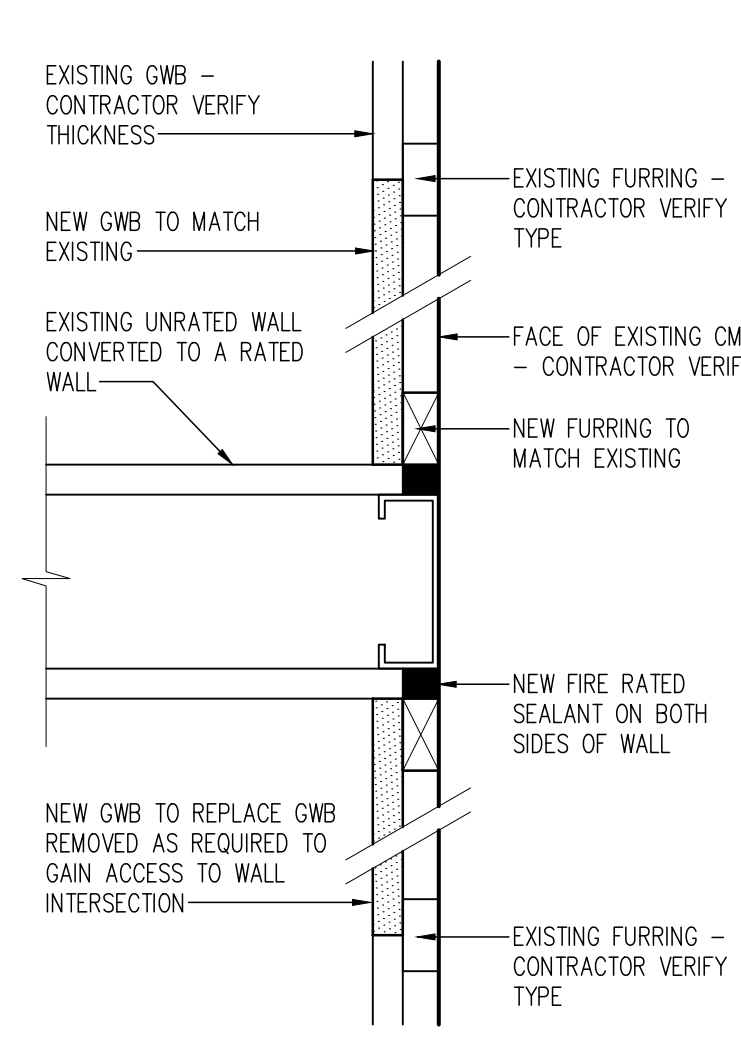
11 WINDOW HEAD
A8.01 3'-1'-0"



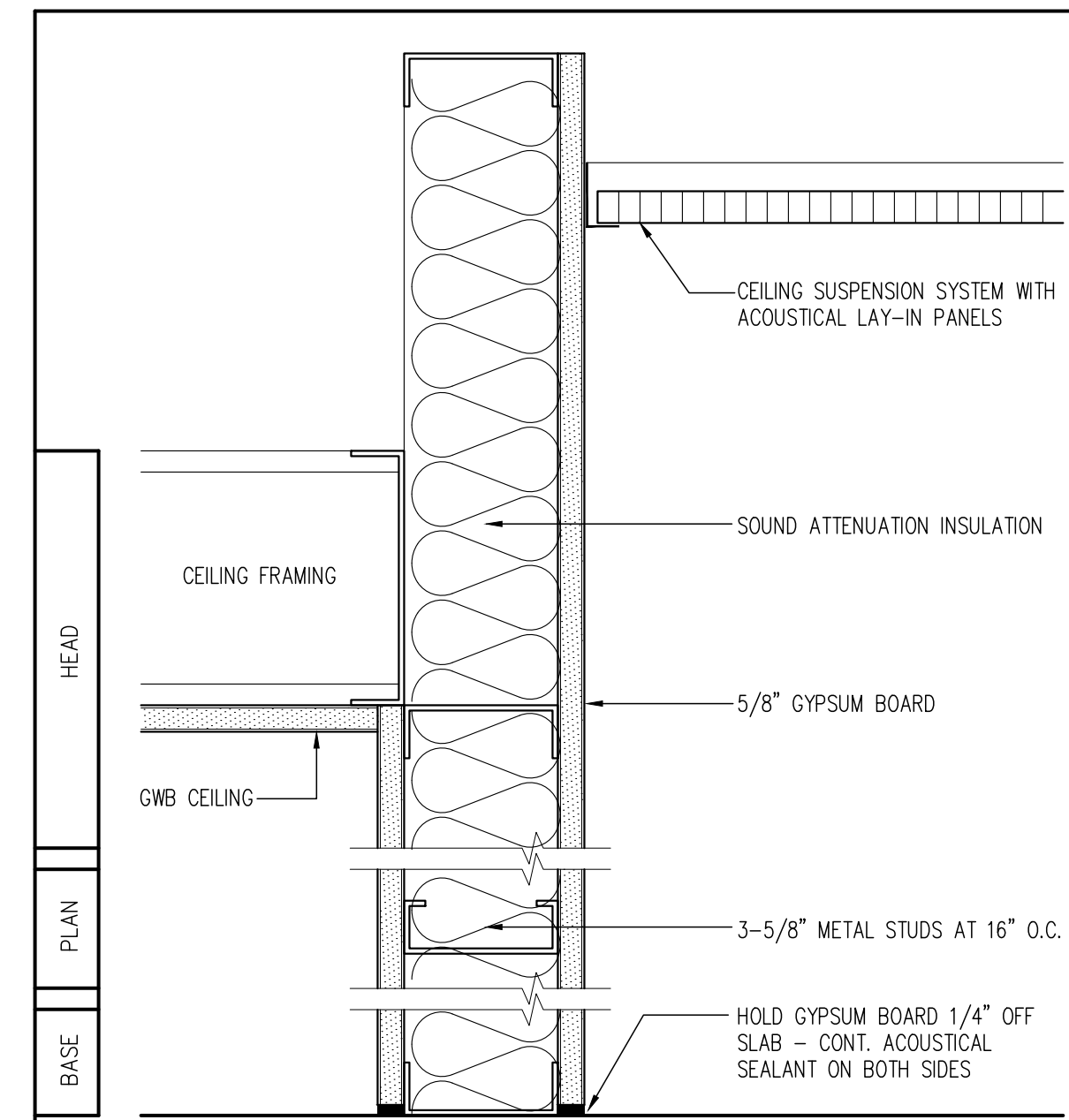
12 DOOR HEAD
A8.01 3'-1'-0"



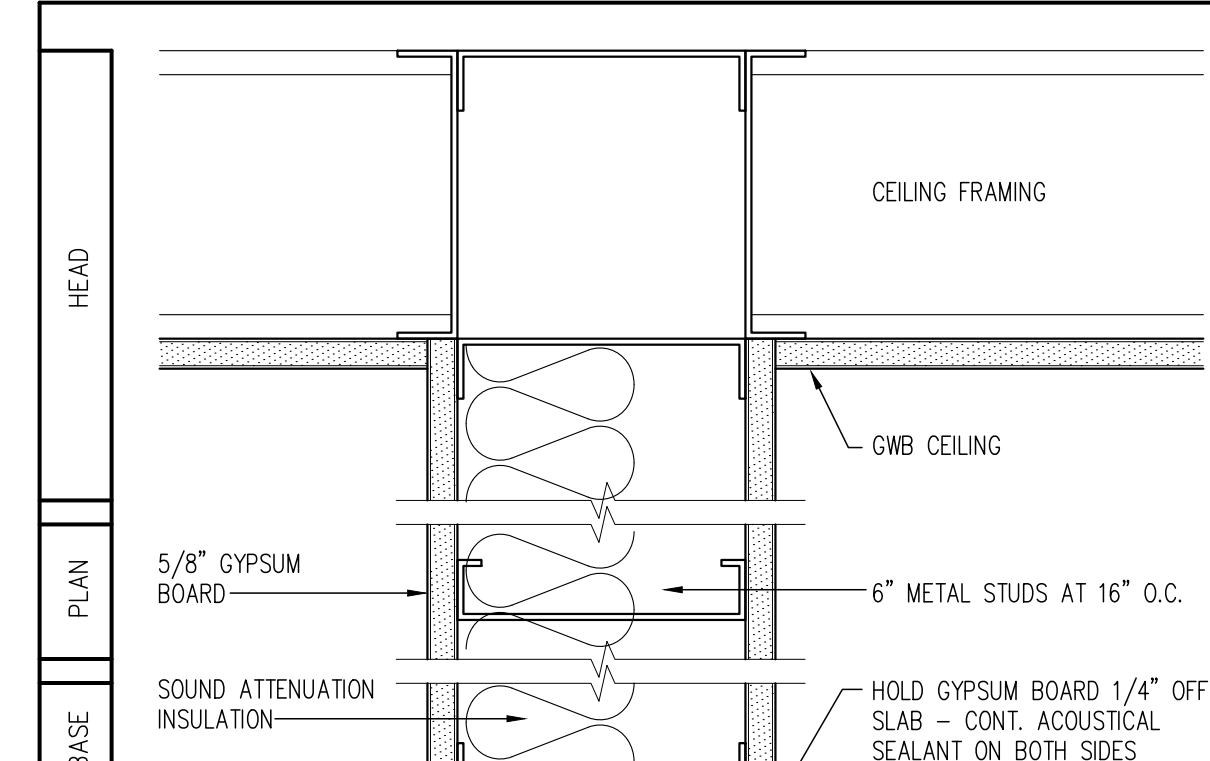
13 DOOR HEAD
A8.01 3'-1'-0"



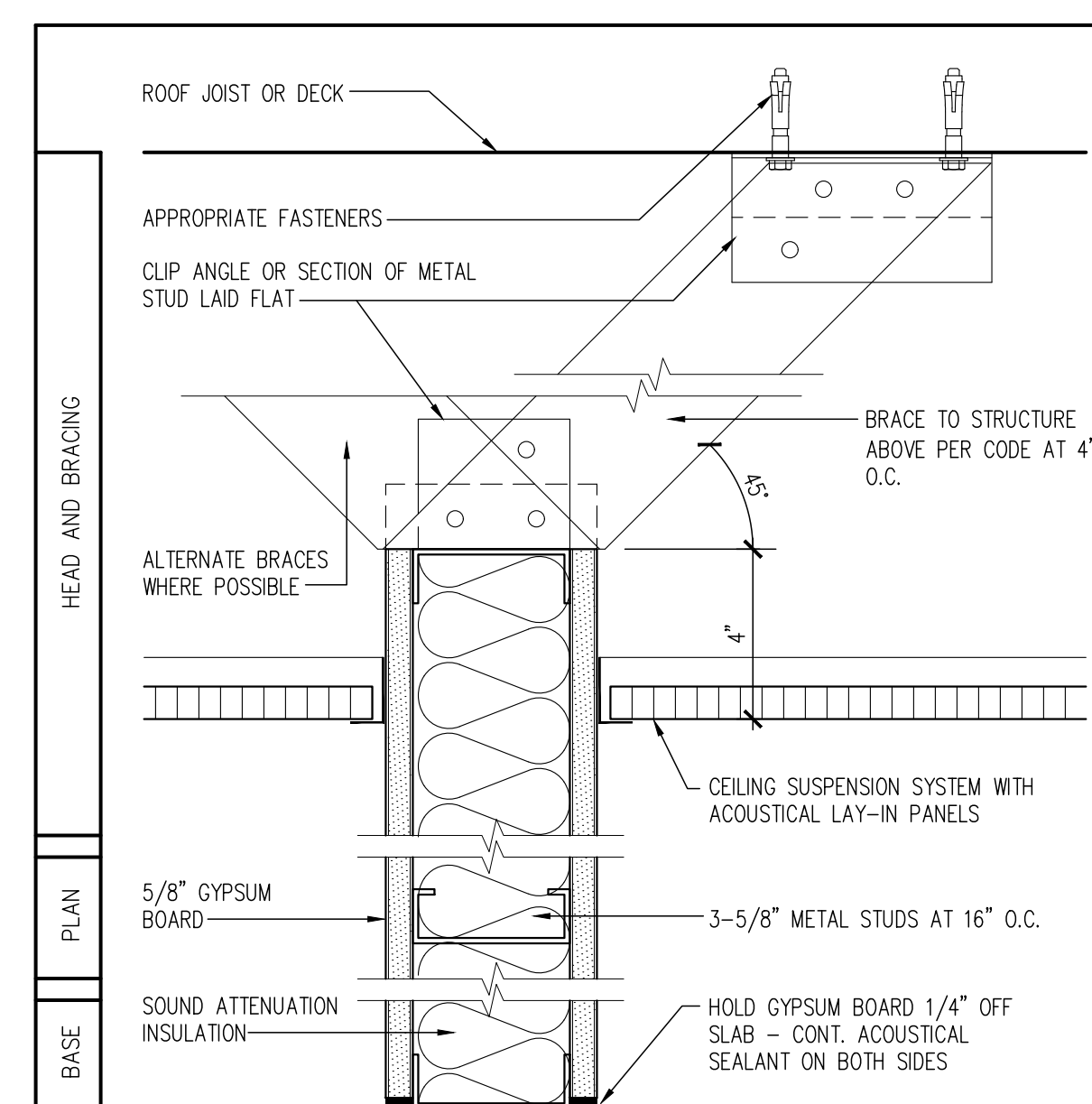
14 RATED WALL TERMINATION AT EXTERIOR WALL
A8.01 3'-1'-0"



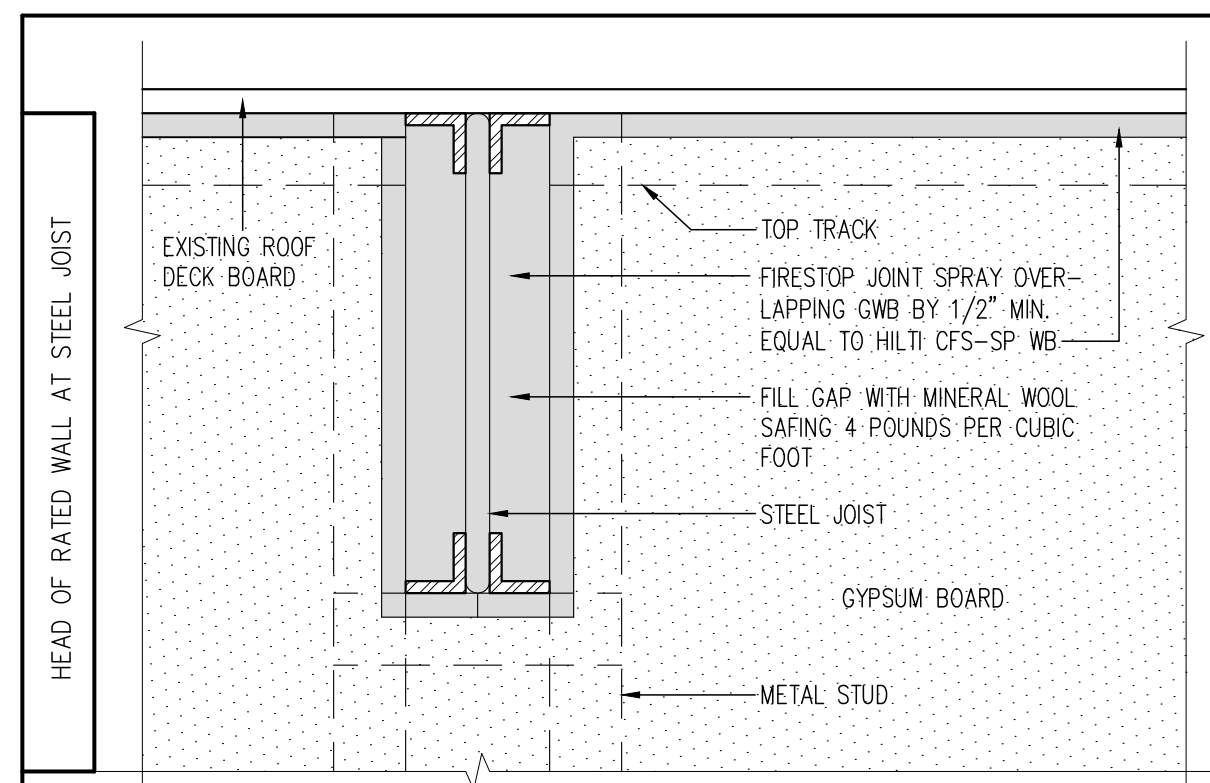
3 NOT RATED, NON-BEARING



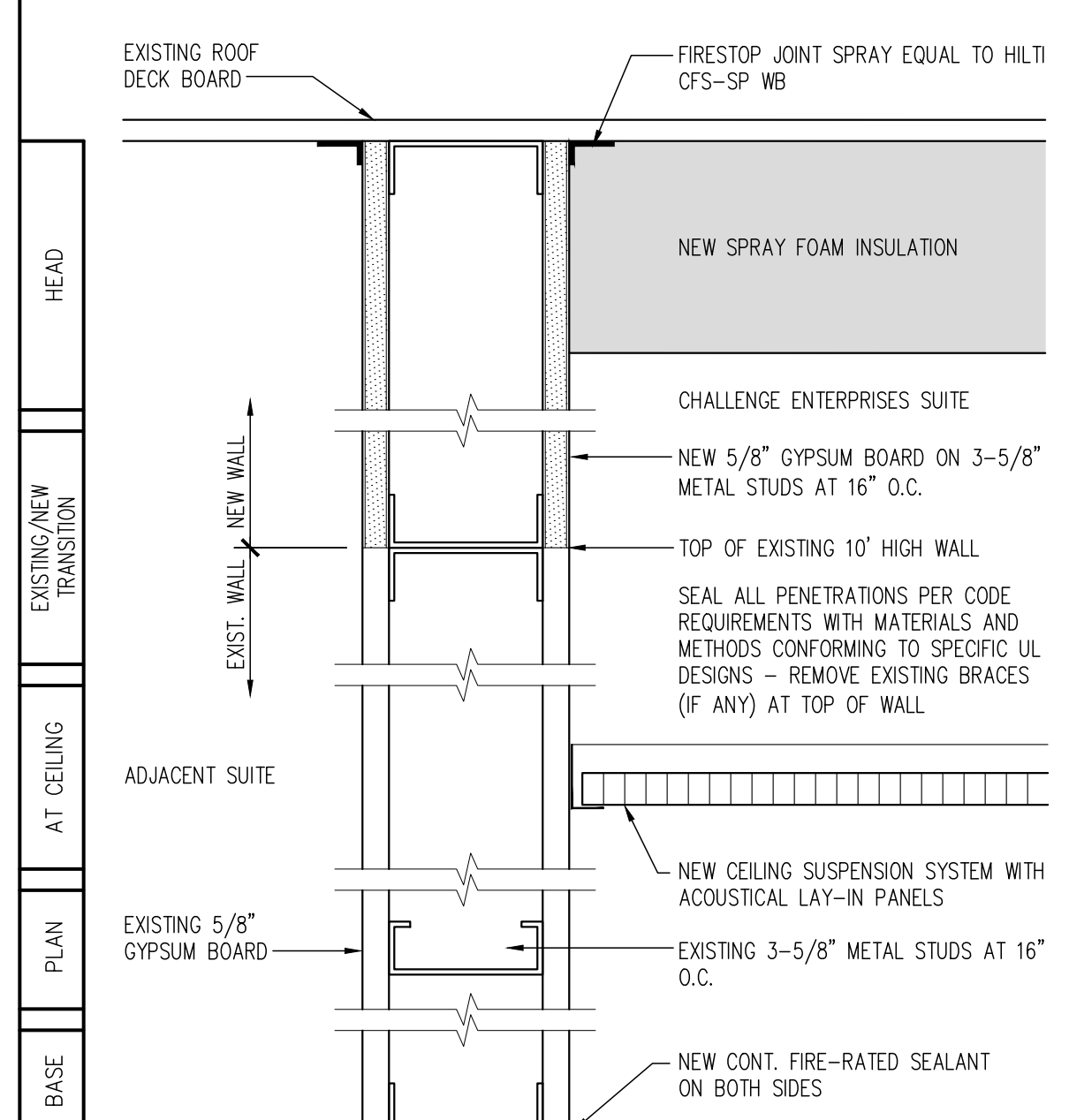
2 NOT RATED, NON-BEARING



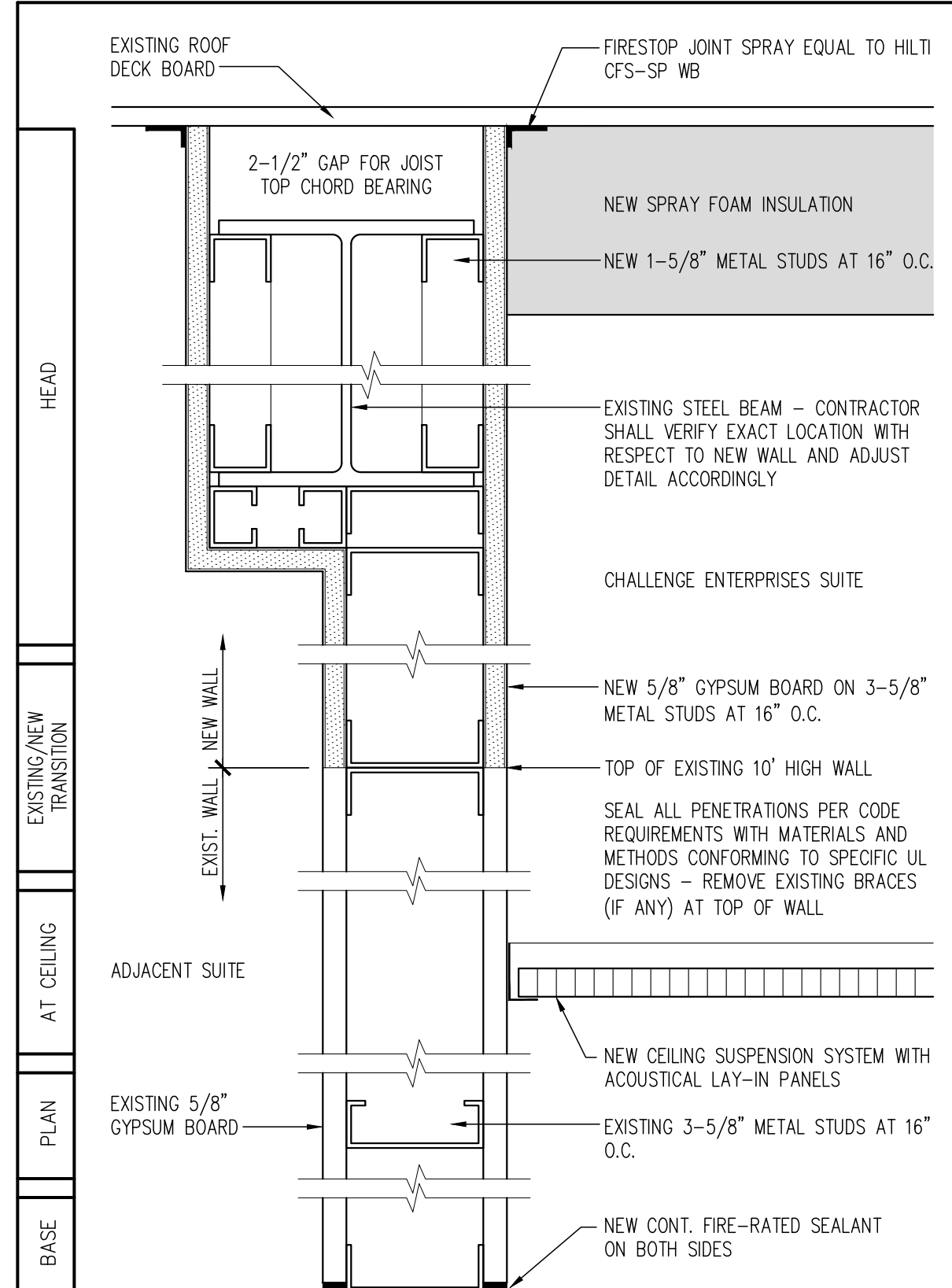
1 NOT RATED, NON-BEARING
1.1 SAME AS 1 BUT WITHOUT SOUND ATTENUATION INSULATION AND ACOUSTICAL SEALANT



4 1 HOUR RATED, NON-BEARING - CONFORM WITH UL DESIGN NO. U419



5 1 HOUR RATED, NON-BEARING - CONFORM WITH UL DESIGN NO. U419



4.1 SAME AS 4 EXCEPT ENTIRE WALL IS NEW FROM SLAB TO ROOF

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LIC# 91457

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MIKE KOPPENHAFFER, AIA - LICENSE # 0014045

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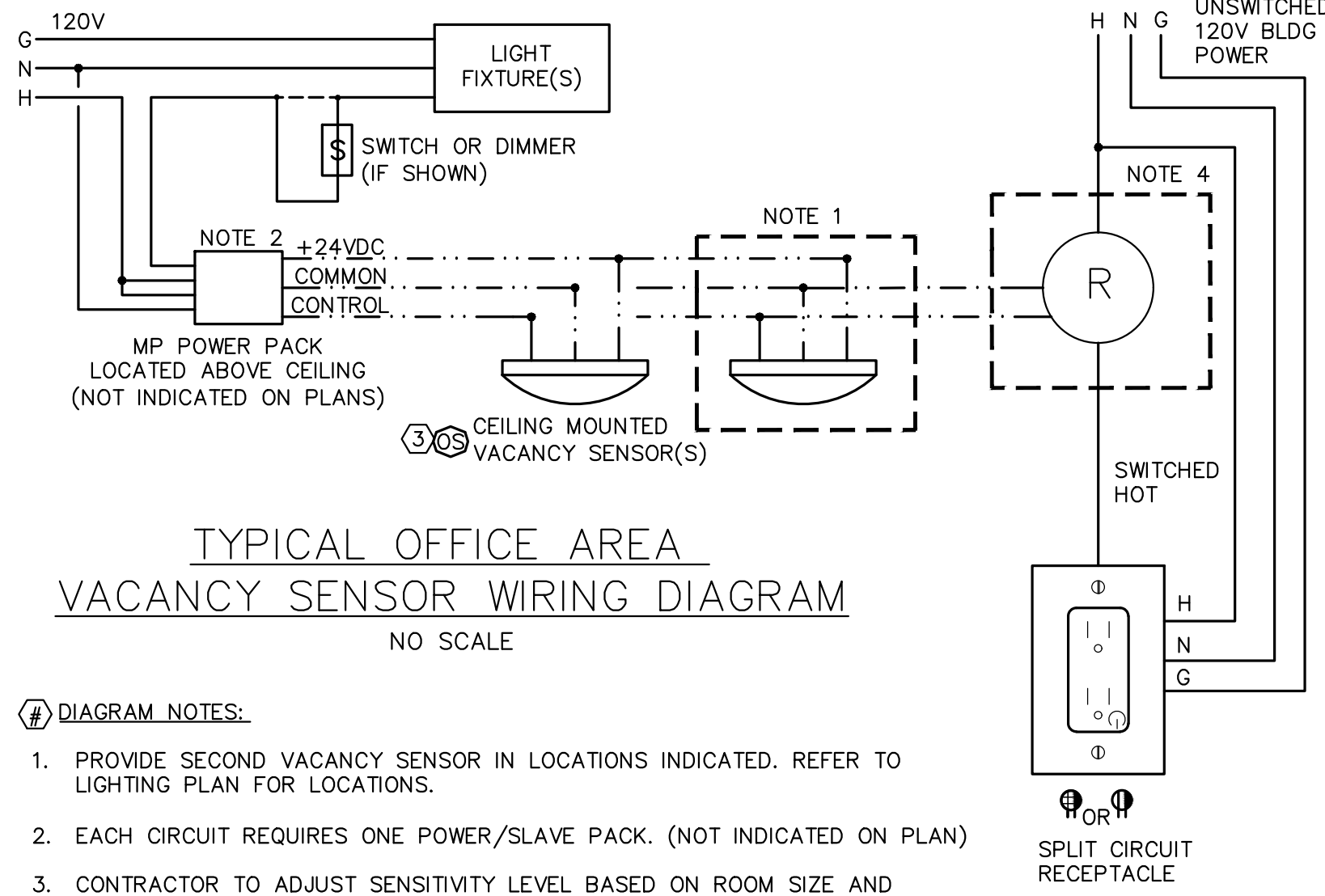
DATE: 10/11/19

MISCELLANEOUS DETAILS

DRAWN BY: DND
CHECKED BY: MSK
PROJECT NO.: 2019-22

A6.01

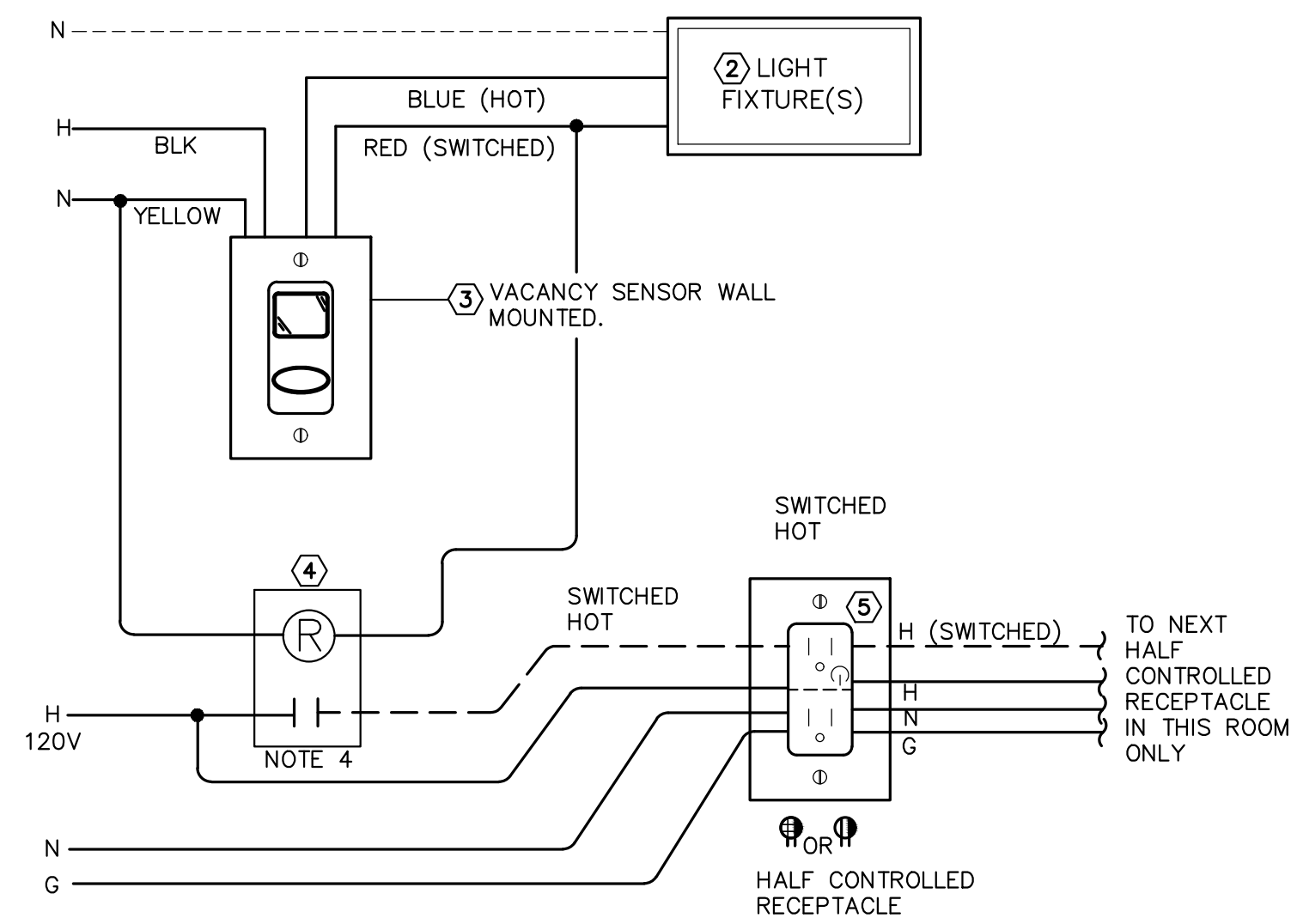
BID SET



TYPICAL OFFICE AREA
VACANCY SENSOR WIRING DIAGRAM
NO SCALE

DIAGRAM NOTES:

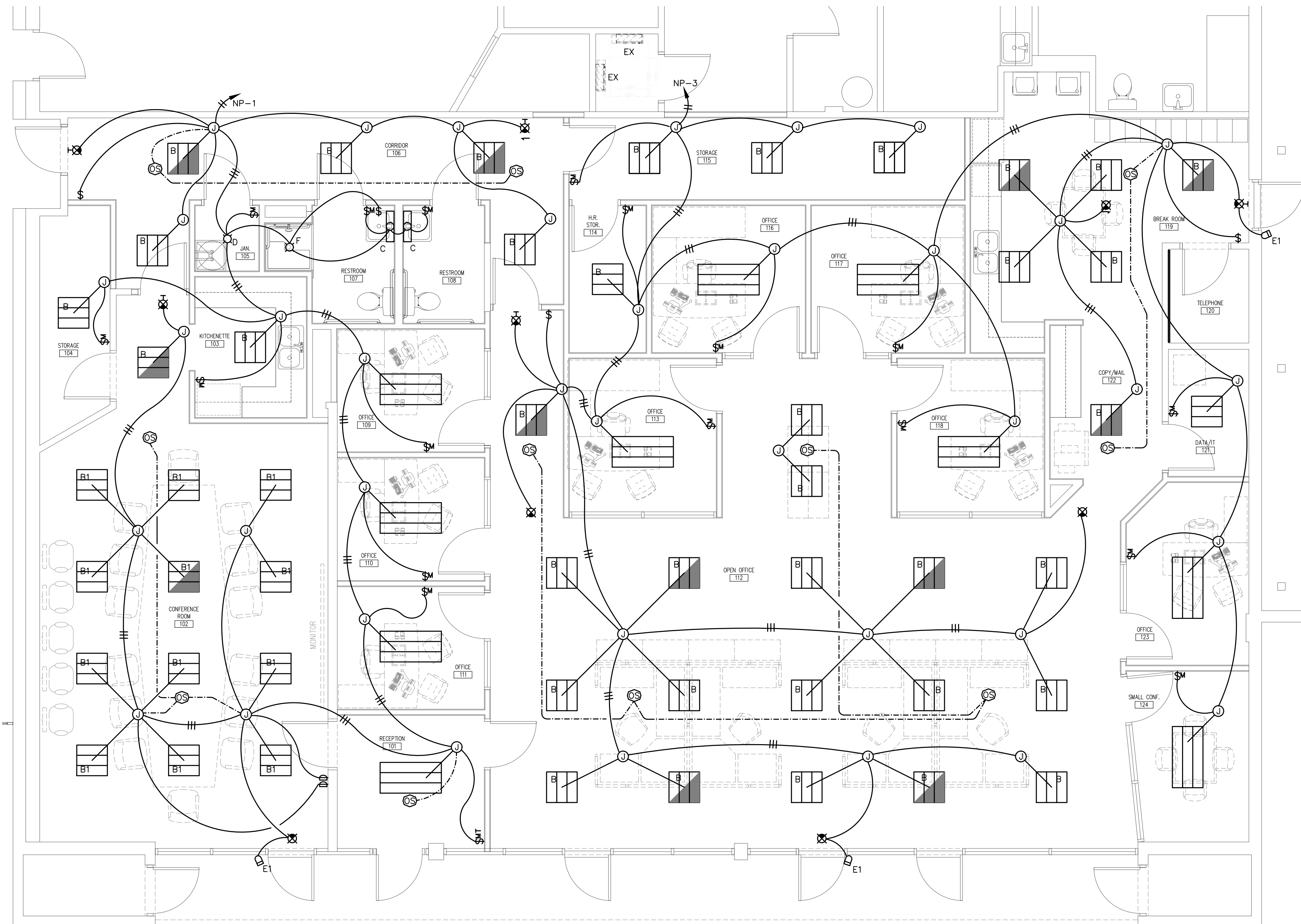
1. PROVIDE SECOND VACANCY SENSOR IN LOCATIONS INDICATED. REFER TO LIGHTING PLAN FOR LOCATIONS.
2. EACH CIRCUIT REQUIRES ONE POWER/SLAVE PACK. (NOT INDICATED ON PLAN)
3. CONTRACTOR TO ADJUST SENSITIVITY LEVEL BASED ON ROOM SIZE AND FURNITURE LAYOUT, SET TIME OUT ON SENSOR TO 12 MIN. (ALL SENSORS MUST BE FIELD ADJUSTED, DON'T INSTALL WITH FACTORY SETTING) PROVIDE SENSOR MASKING KIT AS REQUIRED.
4. PROVIDE 24 VOLT RELAY IN AREAS INDICATED TO AUTOMATICALLY DISCONNECT 120 VOLT RECEPTACLE POWER WHEN NO OCCUPANCY IS DETECTED. RELAY AND SHALL BE MANUFACTURED BY SAME MANUFACTURER AS THE POWER PACK TO INSURE COMPATIBLE VOLTAGE AND POWER RATING REQUIRED TO CONTROL RECEPTACLE AS INDICATED.
5. PROVIDE DUPLEX RECEPTACLES IN AREAS INDICATED WITH HALF-SWITCHED OUTLET. OUTLET SHALL HAVE A PERMANENT LABEL INDICATING WHICH PLUG LOAD IS CONTROLLED. LEGRAND CATALOG #5262CH, OR APPROVED EQUAL.



TYPICAL OFFICE VACANCY SENSOR DETAIL
NO SCALE

DIAGRAM NOTES:

1. UTILIZE VACANCY SENSOR FOR CONTROL OF POWER/SLAVE PACK (POWER PACKS NOT INDICATED ON PLAN)
2. SEE 'LTG FIXTURE SCHEDULE' FOR PART NUMBERS.
3. CONTRACTOR TO ADJUST SENSITIVITY LEVEL BASED ON ROOM SIZE AND FURNITURE LAYOUT, SET TIME OUT ON SENSOR TO 12 MIN. (ALL SENSORS MUST BE FIELD ADJUSTED, DON'T INSTALL WITH FACTORY SETTING) PROVIDE SENSOR MASKING KIT AS REQUIRED TO AVOID NUANCE TRIPPING.
4. PROVIDE 277/120 VOLT RELAY TO AUTOMATICALLY DISCONNECT 120 VOLT RECEPTACLE POWER WHEN NO OCCUPANCY IS DETECTED.
5. PROVIDE DUPLEX RECEPTACLES IN AREAS INDICATED WITH HALF-SWITCHED OUTLETS. OUTLETS SHALL EACH HAVE A PERMANENT LABEL INDICATING WHICH PLUG IS CONTROLLED. LEGRAND CATALOG #5362, OR APPROVED EQUAL.



LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION	MANUFACTURER (NO SUBSTITUTIONS)	VOLT	QTY	LAMPS TYPE	INPUT WATTS	MTG/INSTALLATION (UNLESS INDICATED OTHERWISE)	NOTES
A	2X4 LED SHALLOW BASKET, ACRYLIC LENS	WILLIAMS# PT 24 L49 835 RA DRV UNV	120	1	LED, 35K	37.2	FLUSH IN GRID	
B	2X2 LED SHALLOW BASKET, ACRYLIC LENS	WILLIAMS# PT 22 L43 835 RA DRV UNV		1	LED, 35K	34.7	FLUSH IN GRID	
B1	2X2 LED BASKET, ACRYLIC LENS, DIMMABLE	WILLIAMS# PT 22 L43 835 RA DRV DIM UNV		1	LED, 35K	34.7	FLUSH IN GRID	
C	LED STRIP FIXTURE, ACRYLIC LENS	WILLIAMS# WMA 2 L30 835 AF DRV UNV		1	LED, 35K	40	WALL 6" ABOVE MIRROR	
D	6" LED DOWNLIGHT, CLEAR REFLECTOR	WILLIAMS# 6DR L15 835 DIM UNV O W OF SG N F1		1	LED, 35K	13.8	FLUSH IN GYP BD.	
E	EXIT SIGN, RED LT, 90MIN BATTERY	BEGHELLI# VA4 R SA AT		1	LED	05	WALL/CLG	
E1	REMOTE EGRESS HEAD, DAMP LOCATION	BEGHELLI# LRP 1 WP		1	LED	05	WALL/CLG	
F	6" LED DOWNLIGHT, SHOWER REFLECTOR	LIGHTOLIER# S7R 835 10 120V		1	LED, 35K	14.2	FLUSH IN GYP BD.	

NOTES:

1. EMERGENCY LIGHTING REQUIREMENTS:
WHERE 'SYMBOL HALF SHADED' OR 'NL' IS INDICATED, PROVIDE FIXTURE WITH BUILT-IN EMERGENCY BATTERY UNIT FOR EMERGENCY LIGHTING (1100 LUMEN MIN. FOR 4FT LAMPS). FOR FIXTURES WHICH DO NOT HAVE AN INTEGRAL BATTERY BACKUP, PROVIDE INVERTER TO OPERATE INDIVIDUAL FIXTURE AT FULL LUMEN OUTPUT. INVERTER SHALL BE SIMILAR TO BODINE BELI SERIES AND SHALL BE SIZED AS REQUIRED FOR FIXTURE INPUT WATTAGE(S). BATTERY OPERATED FIXTURES SHALL BE PROVIDED WITH FACTORY INSTALLED INTEGRAL TEST PUSH BUTTON MOUNTED IN TOP OF FIXTURE REFLECTOR. CONNECT TO OPERATE AS FOLLOWS:
'HALF SHADED'- CONNECT FIXTURE TO OPERATE WITH SWITCH AND BATTERY/INVERTER TO OPERATE FIXTURE UPON BRANCH CIRCUIT FAILURE.
2. THE FIXTURE CATALOG NUMBERS GIVEN MAY NOT CONTAIN ALL PARTS & PIECES REQUIRED. CONTRACTOR TO INCLUDE ALL PARTS REQUIRED FOR A FULLY FUNCTIONING FIXTURE INCLUDING (BUT NOT LIMITED TO) HOUSINGS, TRIMS, REFLECTORS, BALLAST, TRANSFORMER(S), DRIVERS, LAMPS etc... IN-ADDITION DIMMER SWITCHES SHALL BE COMPATIBLE WITH FIXTURE PROVIDED.

PARTIAL FLOOR PLAN- LIGHTING

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

LIGHTING PLAN NOTES:

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF ALL CEILING LIGHT FIXTURES.
2. ALL LIGHT FIXTURES ARE TYPE 'A' UNLESS OTHERWISE INDICATED.
3. ALL EXIT SIGNS ARE TYPE 'E' UNLESS OTHERWISE INDICATED.
4. TYPICAL CEILING MOUNTED OCCUPANCY SENSOR CONNECTIONS (VIA LOW VOLT CABLES NOT SHOWN); SEE 'TYPICAL OFFICE AREA OCCUPANCY SENSOR WIRING DIAGRAM'. PROVIDE ADDITIONAL CONNECTION TO SENSOR CONTROLLED CONTACTOR. SEE SENSOR WIRING DIAGRAM(S) FOR ADDITIONAL REQUIREMENTS.
5. ALL SENSORS LOCATED IN AREAS SUCH AS OFFICES, BREAK ROOMS & MECHANICAL ROOMS SHALL BE PROGRAMMED AS VACANCY TYPE SENSORS. ALL SENSORS LOCATED IN AREAS SUCH AS OPEN AREAS, CORRIDORS & RESTROOMS SHALL BE PROGRAMMED AS OCCUPANCY TYPE SENSORS.

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REVISIONS:

DATE: 09/6/19

PART FLOOR
PLAN-LIGHTING
AND NOTES

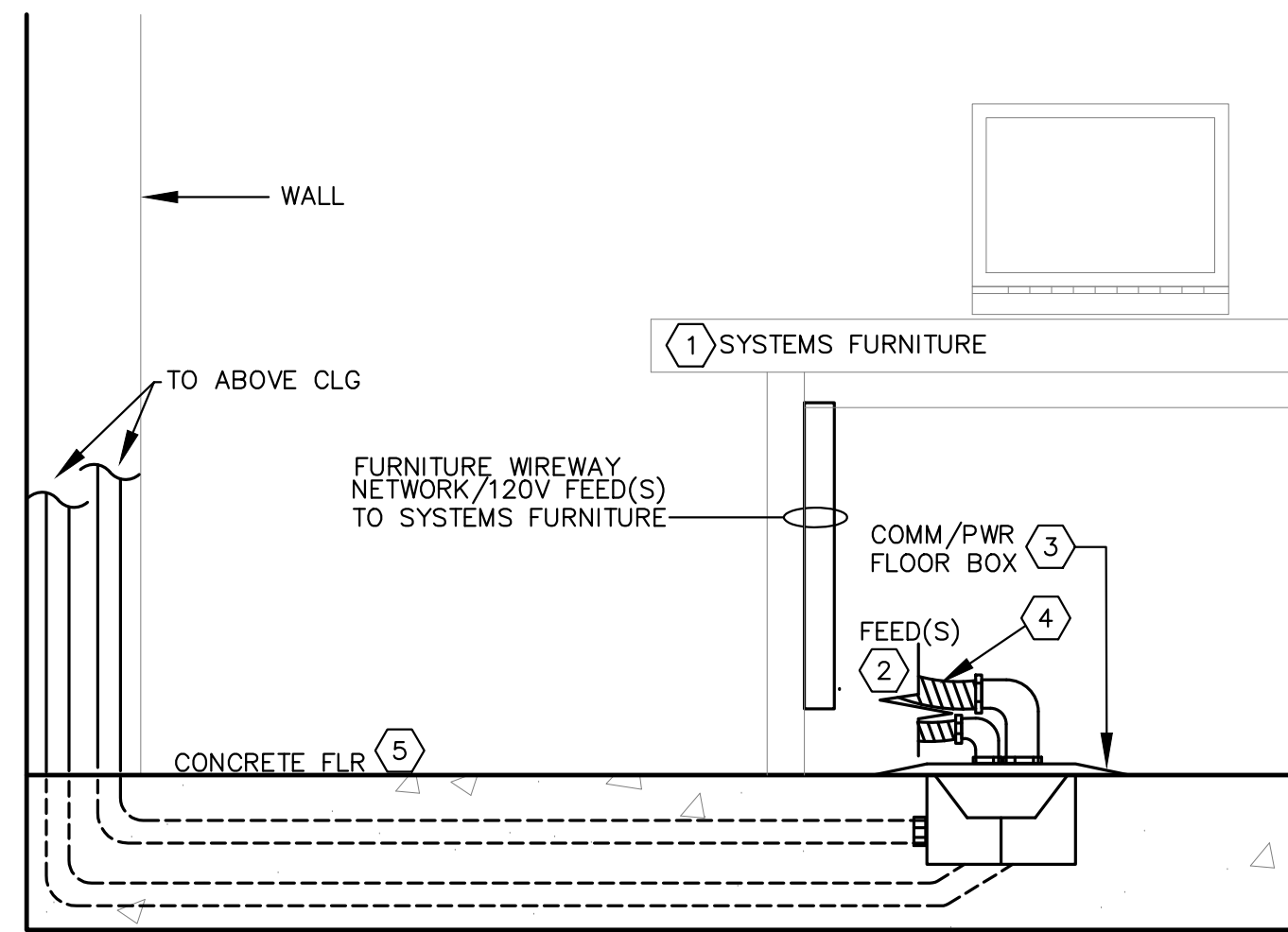
DRAWN BY: MHP
CHECKED BY: TME
PROJECT NO.: 2019-22

E1.01
PERMIT SET

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RICHARD A. MATHEWS PE 59418
DAVID R. SPELL JR. PE 54729
JAMES L. HENNESSEY PE 83241

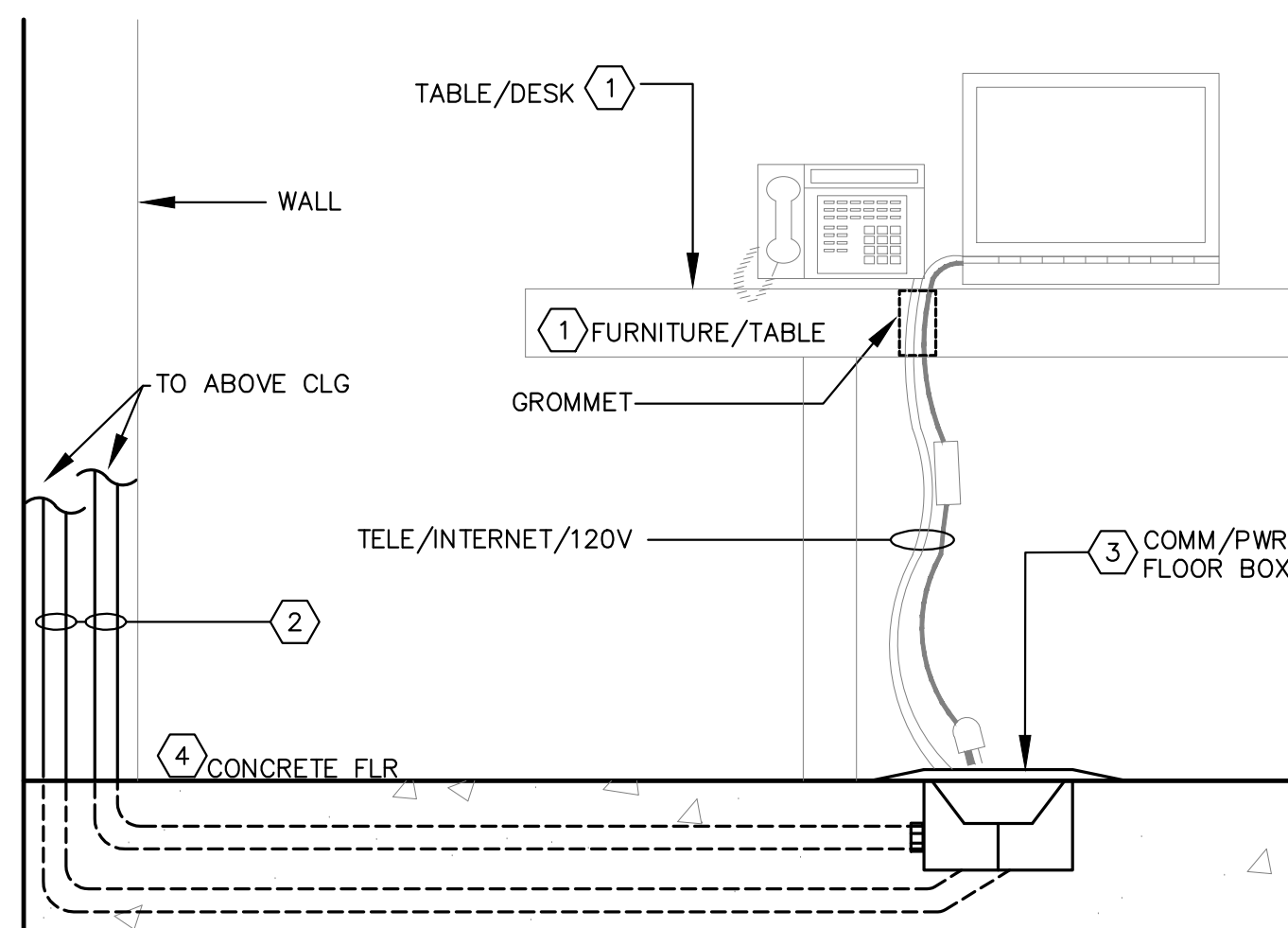
9/11/19
3169ELEC



SYSTEMS FURNITURE FEED DETAIL
NO SCALE

DETAIL NOTES:

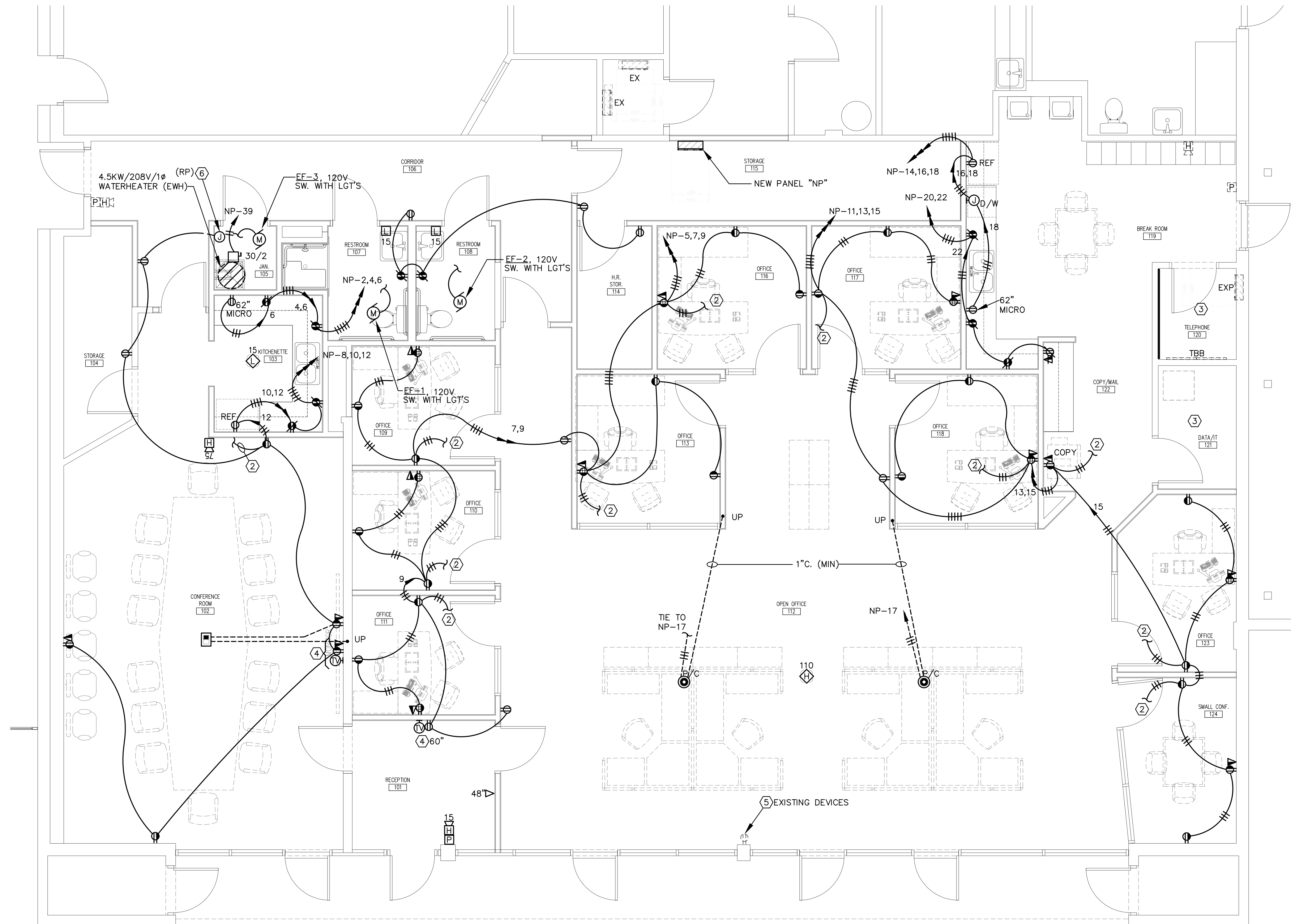
1. VERIFY EXACT LOCATIONS OF ALL FLOOR BOX ASSEMBLIES WITH ARCHITECTURAL PLANS & FURNITURE LAYOUT PRIOR TO ROUGH-IN.
2. COMBINATION FLOOR FEED PROVIDES 2" FOR COMMUNICATIONS CABLES AND 1" FOR 120V OUTLETS IN SYSTEM FURNITURE TO ABOVE CEILING.
3. COMBINATION COMM/PWR TYPE WIREMOLD #RFB4 SERIES WITH FLANGED TILE/CARPET COVER PLATE & FLOOR PORT PARTITION FEED WIREMOLD #RFBKIT.
4. SECURE WITH SPLIT SLEEVE CORRUGATED TUBING.
5. SAW CUT ALL TRENCHES FOR FLOOR BOX & CONDUIT. FIELD VERIFY EXACT LOCATION(S) WITH FURNITURE VENDOR PRIOR TO ROUGH-IN.



COMBINATION FLOOR OUTLET DETAIL
NO SCALE

DETAIL NOTES:

1. VERIFY EXACT LOCATIONS OF ALL FLOOR BOX ASSEMBLIES WITH ARCHITECTURAL PLANS & FURNITURE LAYOUT PRIOR TO ROUGH-IN.
2. COMBINATION FLOOR BOX WITH 1" FOR COMMUNICATIONS CABLES AND 3/4" FOR 120V OUTLETS TO ABOVE CEILING.
3. COMBINATION COMM/PWR TYPE WIREMOLD #RFB4-4DB SERIES WITH FLANGED TILE/CARPET COVER PLATE & INTERNAL BRACKETS FOR (2) DUPLEX AND (2) COMMUNICATION OUTLETS.
4. SAW CUT ALL TRENCHES FOR FLOOR BOX & CONDUIT. FIELD VERIFY EXACT LOCATION(S) WITH FURNITURE VENDOR PRIOR TO ROUGH-IN.



PARTIAL FLOOR PLAN- POWER & SYSTEMS

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

POWER PLAN NOTES:

1. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS AND REQUIREMENTS OF ALL HVAC EQUIPMENT. IF CONDENSATE PUMP(S) ARE REQUIRED, TIE TO NEAREST 120V OUTLET.
2. PROVIDE SWITCHED CONNECTION FROM OCCUPANCY SENSOR CONTROLLED RELAY FOR 50% SWITCHING OF OUTLETS AS REQUIRED BY CODE. SEE 'TYPICAL OFFICE AREA VACANCY SENSOR WIRING DIAGRAM' FOR ADDITIONAL REQUIREMENTS.
3. EXISTING ROOM/PANEL TO REMAIN OPERATIONAL.
4. DEVICES MOUNTED AT 6" AFF BEHIND FLAT SCREEN MONITOR, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION PRIOR TO ROUGH-IN.
5. EXISTING DEVICES THROUGHOUT SPACE SHALL BE REMOVED ALONG WITH CONDUIT AND CONDUCTORS, LABEL CIRCUIT BREAKERS "SPARE" AND TURN TO THE OFF POSITION. CONTRACTOR SHALL ALSO REMOVE ALL LOW VOLTAGE CABLING IN CEILING SPACE.
6. FROM J-BOX PROVIDE 120V. CONNECTION TO RECIRCULATION PUMP (RP) VERIFY EXACT LOCATION WITH PUMP SUPPLIER PRIOR TO ROUGH-IN.

9/9/19
3169ELEC

	POWELL & HINKLE ENGINEERING, P.A. 1409 KINGSLEY AVENUE, BLDG 12A ORANGE PARK, FLORIDA 32073 (904) 264-5570 FAX: (904) 278-2646 LICENSE NUMBER CA-4577	ROBERT L. HINKLE PE 29302 GALTON C. MOK PE 33192 LANE R. HINKLE PE 48076 THOMAS M. ELDER PE 56121 RICHARD A. MATHEWS PE 59418 DAVID R. SPELL JR. PE 54729 JAMES L. HENNESSEY PE 83241
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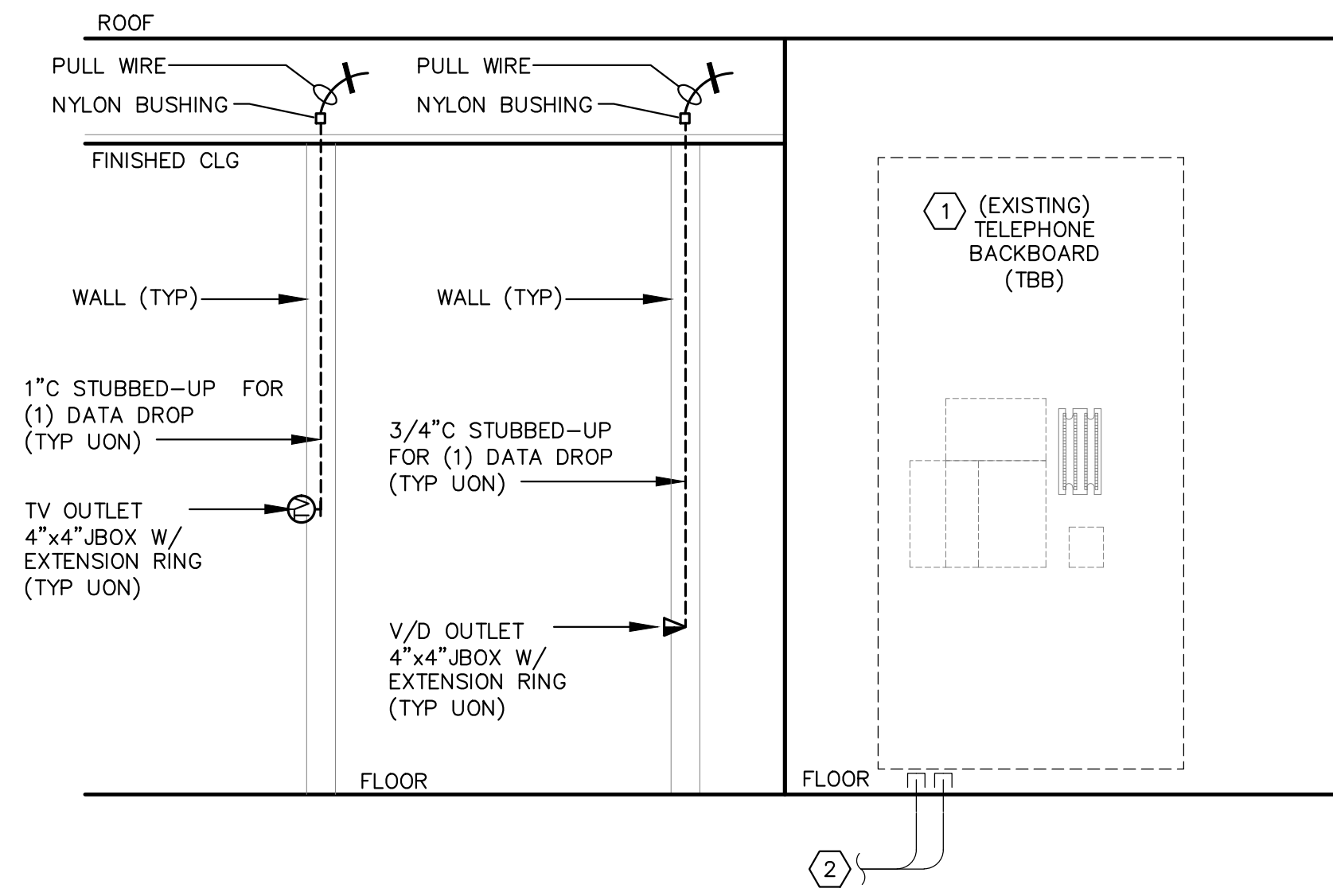
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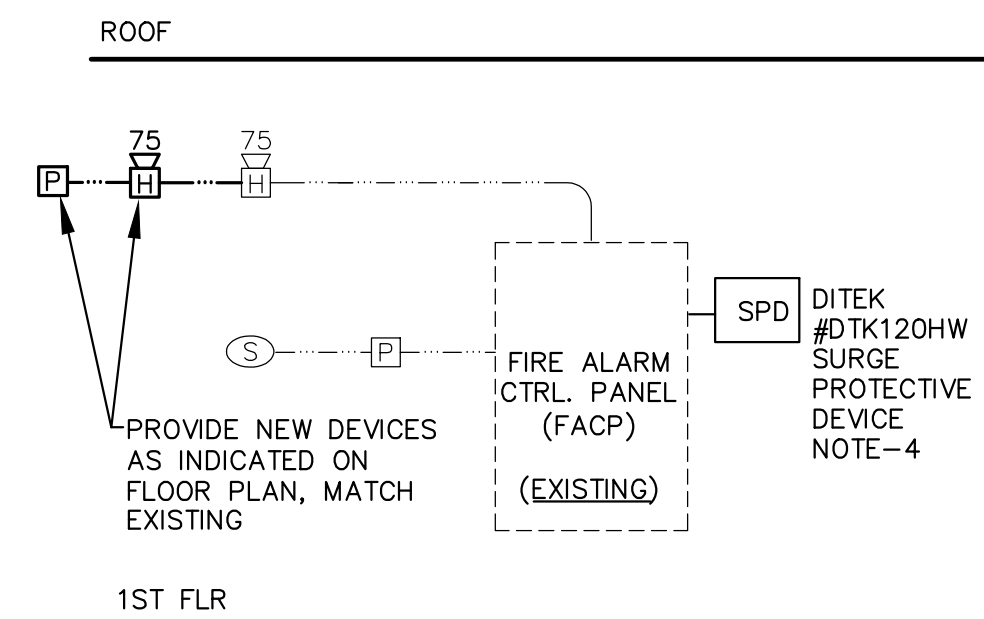
E1.02
PART FLOOR PLAN-POWER AND SYSTEMS
DRAWN BY: MH
CHECKED BY: TME
PROJECT NO.: 2019-22
PERMIT SET



TBB (EXISTING) BACKBOARD RISER
NO SCALE

(EXISTING) RISER NOTES:

1. 'EXISTING' TELEPHONE BACKBOARD (TBB) PLYWOOD 4'x8'x3/4" W/FIRE RETARDANT PAINT ON ALL 6 SIDES.
2. 'EXISTING' COMMUNICATIONS CO SERVICE ENTRANCE CONDUITS.



(EXISTING) FIRE ALARM SYSTEM RISER
NO SCALE

FIRE ALARM RISER NOTES:

1. FIRE ALARM RISER IS DIAGRAMMATICAL ONLY. FA DEVICES SHOWN ON DRAWINGS ARE A MINIMUM REQUIREMENT. FIRE MARSHALL HAVING JURISDICTION SHALL DICTATE FINAL QUANTITIES AND LOCATIONS OF ALL FA DEVICES. MAKE A PROVISION FOR ADDITIONAL DEVICES.
2. ALL NEW HORNS SHALL HAVE DISTINCTIVE TEMPORAL (FA 3 BEEP) TONE. ALL NEW STROBE LIGHTS SHALL BE SYNCHRONIZED. ANY EXISTING STROBES THAT ARE IN SIGHT OF A NEW STROBE SHALL BE ABLE TO BE SYNCHRONIZED WITH NEW STROBE OR SHALL BE REPLACED.
3. INSTALL NEW OR REPLACE EXISTING DEVICES TO MEET CURRENT FIRE CODES. SPECIFY EXISTING MANUFACTURER FOR NEW DEVICES TO INSURE COMPATIBILITY WITH EXISTING FA SYSTEM.
4. VERIFY EXISTING FACP HAS A DEDICATED SURGE PROTECTION DEVICE OR PROVIDE NEW AS REQUIRED BY CODE.

SERVING		AWG SIZE	KVA LOAD	AMP	CKT	PHASE A	PHASE B	PHASE C	CKT	AMP	KVA LOAD	AWG SIZE	SERVING
AHU-2	EX	10.0	60	1					2	60	10.0	EX	AHU-4
CU-2	EX	8.0	50	5					4	50	8.0	EX	CU-4
AHU-3	EX	10.0	60	9					8	60	10.0	EX	AHU-5
CU-3	EX	10.0	60	13					12	60	10.0	EX	CU-5
SPARE				17					16	20	-	-	SPARE
RANGE	EX	8.0	50	23					22	100	19.7	3	NEW PANEL "NP"
SPACE ONLY				25					24				SPACE ONLY
				27					26				
				29					28				
				31					30				
				33					32				
				35					34				
				37					36				
				39					38				
				41					40				
									42				

KVA LOAD-101.7

SERVING		AWG SIZE	KVA LOAD	AMP	CKT	PHASE A	PHASE B	PHASE C	CKT	AMP	KVA LOAD	AWG SIZE	SERVING
LGT - CONF/OFF/RR		12	0.8	20	1				2	20	0.2	12	REC-KITCHEN GFI
- OPEN OFFICE/OFF		12	1.1	20	3				4	20	0.2	12	- GFI
REC- OFFICES		12	1.6	20	5				6	20	0.5	12	- MIRCO
		12	1.4	20	7				8	20	0.4	12	REC-KITCHEN GFI'S
		12	1.1	20	9				10	20	0.2	12	- REF
REC- OFFICES		12	1.6	20	11				12	20	1.8	12	-CONF RM
- COPIER		12	0.5	20	13				14	20	0.2	12	REC-BRK RM- REF
- SM. CONF		12	1.3	20	15				16	20	0.4	12	- DISHWASHER
REC- OPEN OFF FB		12	0.7	20	17				18	20	0.5	12	- MICRO
SPARE				19					20	20	0.2	12	REC-BRK RM- COFFEE
				21					22	20	0.5	12	- GFI/WORK RM
				23					24	20	-	-	SPARE
				25					26	20	-	-	
				27					28	20	-	-	
				29					30	20	-	-	
				31					32	20	-	-	
				33					34	20	-	-	
				35					36	20	-	-	
				37					38	20	-	-	
				39					40	20	-	-	
				41					42	20	-	-	

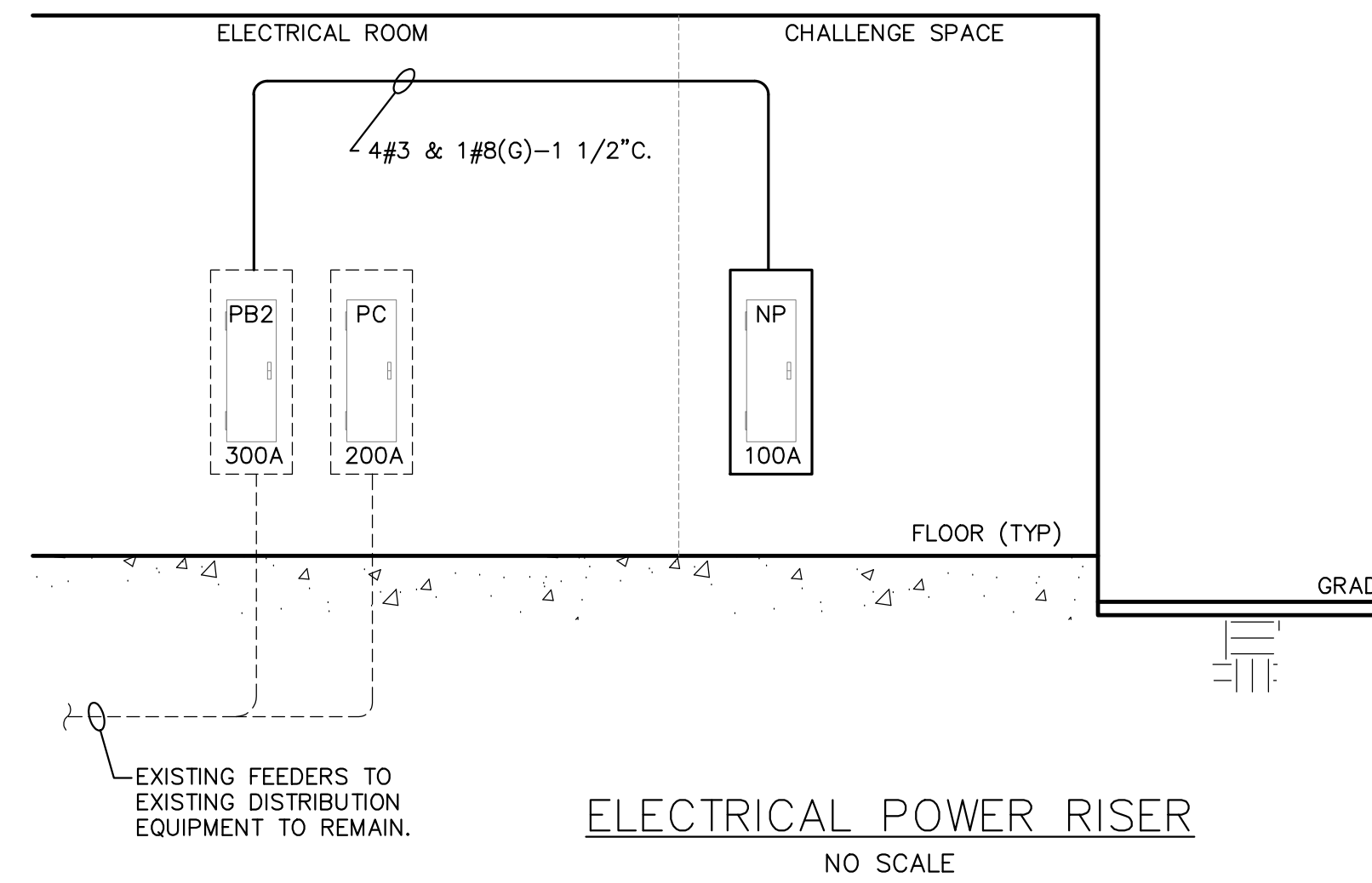
KVA LOAD- 19.7

PANEL SCHEDULE(S) NOTES:

1. WIRE/BREAKER SIZES ARE FOR REFERENCE ONLY. PRIOR TO ROUGH-IN FIELD VERIFY EXACT EQUIPMENT SELECTION AND PROVIDE WIRE AND BREAKER SIZE & TYPE TO MATCH MECHANICAL EQUIPMENT REQUIREMENTS.
2. HANDLE TIES SHALL BE USED FOR ALL BRANCH BREAKERS WHICH SHARE A NEUTRAL CONDUCTOR. MULTI-POLE BREAKERS SHALL BE PROVIDED FOR ALL 208 OR 480 LOADS HANDLE TIES NOT PERMITTED UNLESS USED FOR COMPLIANCE WITH NEC.

GENERAL NOTES:

- A. ANY NEW CIRCUIT BREAKERS REQUIRED SHALL MATCH EXISTING MANUFACTURER. PRIOR TO BIDDING PROJECT FIELD VERIFY EXISTING CONDITIONS AND REPORT TO ENGINEER IF ANY ELECTRICAL PANELS WILL REQUIRE THE ADDITION OF BREAKERS (AND/OR) HAVE NO AVAILABLE SPACE.
- B. SPACE RENOVATIONS ARE LIMITED TO MODIFICATIONS OF INTERIOR WALLS/ PARTITIONS AND DOES NOT CHANGE OCCUPANCY LOADS OR SPACE FUNCTION. 'TOTAL CONNECTED ELECTRICAL POWER LOAD IS UNCHANGED'.
- C. SCOPE OF WORK INDICATED REPLACES LOW EFFICIENCY LIGHTING FIXTURES WITH NEW LED AND FLUORESCENT LIGHTING FIXTURES. AS A RESULT 'TOTAL CONNECTED LIGHTING LOAD IS EFFECTIVELY REDUCED'. EXISTING LIGHTING BRANCH CIRCUIT AMPACITY IS THEREFORE REDUCED.



ELECTRICAL POWER RISER
NO SCALE

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REVISIONS:

DATE: 09/6/19

POWER RISER
PNL SCH
AND DETAILS

DRAWN BY: MH
CHECKED BY: TME

PROJECT NO.: 2019-22

E2.01

PERMIT SET

9/9/19
3169ELEC

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ELECTRICAL SPECIFICATION

- SCOPE: PROVIDE A COMPLETE ELECTRICAL SYSTEM AS SHOWN AND MEET THE REQUIREMENTS OF APPLICABLE STATE AND LOCAL CODES INCLUDING BUT NOT LIMITED TO CURRENT VERSIONS OF THE FLORIDA BUILDING CODE, AND THE NATIONAL ELECTRICAL CODE (NEC). OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS AND CONNECTIONS NECESSARY FOR THIS WORK.
- SITE INSPECTION: VISIT AND THOROUGHLY INSPECT SITE BEFORE SUBMITTING BID. ASSUME RESPONSIBILITY FOR MEETING ALL EXISTING SITE CONDITIONS AFFECTING THE WORK
- GUARANTEE: PROVIDE ALL NEW MATERIALS AND EQUIPMENT, AND GUARANTEE SAME FOR ONE YEAR FROM DATE OF ACCEPTANCE.
- SUBMITTALS: SUBMIT SHOP DRAWINGS, CATALOG SHEETS, OR OTHER DESCRIPTIVE DATA WITH SUFFICIENT INFORMATION TO ESTABLISH DESIGN, QUALITY AND PERFORMANCE. MANUFACTURER CATALOG SHEETS SUBMITTED WITHOUT SPECIFIC MODEL NUMBERS INDICATED WILL BE REJECTED. DATA SHALL DESCRIBE APPARATUS, EQUIPMENT, PANELS, FIXTURES, AND OTHER ITEMS REQUIRING DESCRIPTIVE LITERATURE. SUBMITTALS SHALL INCLUDE THE FOLLOWING:
 - A. LIGHT FIXTURES
 - B. PANELBOARDS
 - C. WIRING DEVICES
 - D. OCCUPANCY SENSORS
 - E. FLOOR OUTLET BOXES
 - F. FIRE ALARM SYSTEM
- PANELBOARDS SHALL BE MOLDED CASE CIRCUIT BREAKER TYPE WITH COMPLETELY DEAD FRONTS ENCLOSED IN CODE GAUGE, GALVANIZED SHEET STEEL CABINETS WITH ADEQUATE WIRING GUTTERS TOP, BOTTOM AND SIDES. NEUTRAL BUS BARS SHALL BE 100% RATED, INSULATED FOR PANELBOARDS SHOWN WITH NEUTRAL. RATED NEUTRAL BUSING SHALL BE SUPPLIED FOR PANELS DESIGNATED ON DRAWINGS WITH OVERSIZED NEUTRAL CONDUCTORS. FRONT TRIM SHALL CONTAIN HINGED DOOR WITH KEYPED LOCK AND CATCH. DOOR SHALL BE PROVIDED WITH PLASTIC ENCLOSED CIRCUIT DIRECTORY. UPON COMPLETION OF INSTALLATION, CIRCUIT DIRECTORY SHALL BE TYPEWRITTEN INDICATING USAGE AND LOCATION OF CIRCUITS AS INDICATED ON DRAWINGS.
- CIRCUIT BREAKERS SHALL BE MOLDED CASE, WITH QUICK-MAKE AND QUICK-BREAK ACTION FOR BOTH MANUAL AND AUTOMATIC OPERATION, WITH THERMAL MAGNETIC TRIP ELEMENTS. SAFETY SWITCHES SHALL BE QUICK-MAKE, QUICK-BREAK TYPE, IN GENERAL PURPOSE OR WEATHER PROOF ENCLOSURE. PROVIDE PROPERLY SIZED FUSES WHERE INDICATED ON THE DRAWINGS.
- WIRING DEVICES: WALL SWITCHES SHALL BE QUIET AC TYPE, 120/277V, 20A, COLOR AS DIRECTED BY ARCHITECT. RECEPTACLES SHALL BE DUPLEX, 120V, 20A, 3 WIRE GROUNDING TYPE, COLOR AS DIRECTED BY ARCHITECT. WALL PLATES FOR SWITCHES, RECEPTACLES, AND TELEPHONE/DATA OUTLETS SHALL BE PLASTIC, COLOR AS DIRECTED BY ARCHITECT. DUPLEX RECEPTACLE TO BE INSTALL WITH THE GROUND ON BOTTOM. SPECIAL RECEPTACLES SHALL BE AS SHOWN. DIMMER SWITCHES SHALL BE SOLID-STATE TYPE WITH TWIST ON-OFF SWITCH AND WATTAGE AS REQUIRED OR INDICATED. DAYLIGHT HARVESTING SENSORS SHALL HAVE AUTOMATIC DIMMING AND BE COMPATIBLE WITH SPECIFIED FIXTURES. MANUFACTURER SHALL BE WATTSTOPPER MODEL #LS-301, OR APPROVED EQUAL. WALL SWITCH OCCUPANCY SENSORS SHALL BE WALL MOUNTED COMBINATION ULTRASONIC AND PASSIVE INFRARED TYPE, WITH INTEGRAL ON/OFF MANUAL SWITCH. OCCUPANCY SENSOR SHALL BE LINE VOLTAGE AND INTRINSICALLY GROUNDING TYPE. MANUFACTURER SHALL BE WATTSTOPPER MODEL #DW-100, COLOR PER OWNER/ARCH, OR APPROVED EQUAL. #PROVIDE VANDAL RESISTANT TYPE IN LOCATIONS INDICATED ON DRAWINGS. HIGH WALL MOUNTED AREA OCCUPANCY SENSORS SHALL BE WALL MOUNTED 1FT BELOW CEILING. COMBINATION ULTRASONIC AND PASSIVE INFRARED TYPE. MANUFACTURER SHALL BE WATTSTOPPER MODEL #DT-200 WITH SWIVEL BRACKET, OR APPROVED EQUAL. OPEN AREA AND CORRIDOR OCCUPANCY SENSORS SHALL BE CEILING MOUNTED COMBINATION ULTRASONIC AND PASSIVE INFRARED TYPE. MANUFACTURER SHALL BE WATTSTOPPER MODEL #DT-300 WITH BZ-50 POWER PACK, OR APPROVED EQUAL BY HUBBELL OR SENSOR SWITCH. ALL SENSORS SHALL BE EQUIPPED WITH AUTOMATIC GAIN CONTROL THEREBY ALLOWING SELF CALIBRATION. CONNECT FOR USE VIA WALL SWITCH GENERALLY AS INDICATED ON DRAWINGS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND COORDINATE LOCATION(S) IN FIELD TO MAINTAIN 5" CLEAR BETWEEN CEILING MOUNTED SENSOR AND HVAC SUPPLY GRILLES. CONTRACTOR TO ADJUST SENSITIVITY LEVEL BASED ON ROOM SIZE AND FURNITURE LAYOUT. SET TIME OUT ON SENSOR TO 12 MINUTES (ALL SENSORS MUST BE FIELD ADJUSTED, DON'T INSTALL WITH FACTORY SETTING).
- MOTOR STARTERS SHALL BE FULL VOLTAGE, MAGNETIC TYPE, WITH NEMA SIZE CORRESPONDING TO MOTOR HORSEPOWER SHOWN ON DRAWINGS AND SHALL BE TOTALLY ENCLOSED IN NEMA-1 TYPE CABINET. STARTER OVERLOAD HEATER ELEMENT SIZE SHALL BE SELECTED IN ACCORDANCE WITH NEC FOR ACTUAL FULL LOAD CURRENT OF CONNECTED MOTOR.
- CONTROL DEVICES SHALL BE , HAND-OFF-AUTO SELECTOR SWITCH, RUN PILOT LIGHT AND RESET BUTTON MOUNTED IN STARTER DOOR. CONTROL VOLTAGE SHALL BE 120V, FROM A BUILT-IN CONTROL TRANSFORMER.
- LIGHT FIXTURES: LIGHT FIXTURES SHALL BE FURNISHED AS SCHEDULED AND SHALL BE FACTORY WIRED, ASSEMBLED AND COMPLETE WITH NEW LAMPS. ALL FLUORESCENT FIXTURES SHALL BE EQUIPPED WITH CBM CERTIFIED BALLASTS TYPE P.
- ELECTRICAL CONDUIT: INSTALL ALL WIRING IN MINIMUM SIZE 1/2" CONDUIT. EMT SHALL BE USED GENERALLY FOR INTERIOR WIRING, M/C CABLE MAY BE USED AS PERMITTED BY CODE, HOWEVER IN ALL CASES WHERE MC IS USED IT SHALL BE PROVIDED WITH ONE (1) ADDITIONAL CONDUCTOR (CAPPED AT BOTH ENDS) FOR USE AS A SPARE. FLEXIBLE STEEL CONDUIT SHALL BE USED FOR FINAL CONNECTION TO ALL MOTORIZED EQUIPMENT. UNDERGROUND CONDUIT SHALL BE PVC.
- OUTLET BOXES: OUTLET BOXES FOR SWITCHES, RECEPTACLES AND TELEPHONE/DATA OUTLETS IN FINISHED WALLS SHALL BE STANDARD GANG TYPE (1-1/2" DEEP) WITH COVERS SIZED FOR BOX. WALL SWITCH OUTLETS SHALL BE FLUSH MOUNTED 48 INCHES ABOVE FLOOR TO TOP. RECEPTACLE AND TELEPHONE/DATA OUTLET BOXES SHALL BE FLUSH MOUNTED 15 INCHES ABOVE FLOOR TO BOTTOM, UNLESS OTHERWISE NOTED.
- WIRE AND CABLE: ALL WIRING SHALL BE COPPER WITH THHN OR XHHW INSULATION. WIRING SUBJECTED TO ELEVATED TEMPERATURES SHALL BE DERATED AS REQUIRED BY THE NEC. WIRE SIZES NO. 6 AND LARGER SHALL BE STRANDED.
- BRANCH CIRCUITS: INSTALL ALL WIRING IN CONDUIT AS SHOWN. NO SMALLER THAN NO. 12 SHALL BE USED FOR ANY BRANCH CIRCUIT. WIRING FOR MOTORS, HEATING AND OTHER MISCELLANEOUS EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE DRAWINGS. ALTHOUGH NOT SHOWN AND NOT REQUIRED BY CODE, ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR.
- TELEPHONE/DATA CONDUIT SYSTEM: PROVIDE EMPTY CONDUITS, OUTLETS AND BACKBOARDS AS SHOWN. INSTALL PULL WIRE IN EACH CONDUIT. PROVIDE EACH OUTLET WITH BLANK COVER PLATE.
- TESTING AND MARKING: COMPLETELY TEST AND MARK ALL WIRING AND EQUIPMENT INSTALLED AND LEAVE THE INSTALLATION IN PERFECT WORKING ORDER.
- ELECTRICAL/MECHANICAL COORDINATION: UNLESS SPECIFICALLY REQUIRED OTHERWISE, PROVIDE ALL DISCONNECT DEVICES FOR A/C EQUIPMENT AND PROVIDE ALL POWER WIRING. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL A/C CONTROL DEVICES AND WIRING.
- THE FIRE ALARM SYSTEM IS EXISTING. ALL NEW DEVICES SHALL MATCH EXITING MANUFACTURER'S TYPES AND FINISHES. THE ENTIRE SYSTEM ARRANGEMENT, WIRING, AND COMPONENTS SHALL BE RE-CERTIFIED AND CONFORM TO CURRENT NFPA 70, 72, 90A, 101, AND ALL LOCAL CODES.

DEMOLITION SPECIFICATION

- DEMOLITION SHALL INCLUDE ALL EXISTING BUILDING AREAS TO BE RENOVATED AND AS WELL AS OTHER DEMOLITION WORK AS INDICATED OR REQUIRED. REFER TO BOTH THE DEMOLITION DRAWINGS AND CONSTRUCTION PLANS. DEMOLITION WORK SHALL INCLUDE DISCONNECTION AND REMOVAL OF ALL EXISTING LIGHT FIXTURES, DEVICES, OUTLETS, BOXES, CONDUIT/WIRING, APPARATUS AND EQUIPMENT AS INDICATED OR REQUIRED.
- REMOVE ALL WIRING/CABLES, CONDUITS AND BOXES THAT ARE REPLACED WITH NEW WORK AND/OR WILL NOT BE REUSED.
- EXISTING PANELS SHALL BE REUSED FOR NEW CIRCUITS WHERE INDICATED. PROVIDE ADDITIONAL CIRCUIT BREAKERS AS REQUIRED FOR NEW CIRCUITS. EXISTING CONCEALED HOMERUN CONDUITS INTO EXISTING FLUSH MOUNTED PANELS SHALL BE REUSED WITH NEW WIRING PROVIDED.
- IN EXISTING ROOMS AND AREAS NOT INDICATED FOR RENOVATION, ALL FIXTURES, DEVICES, CONTROLS, SYSTEMS AND CIRCUITS SHALL REMAIN IN OPERATION. INCIDENTAL DAMAGE OR DISRUPTION OF THESE ITEMS SHALL BE CORRECTED AUTOMATICALLY.
- EXISTING CONCEALED CONDUITS, JUNCTION BOXES AND RECESSED OUTLET/SWITCH BOXES SHALL BE REUSED WITH NEW WIRING WHEREVER PRACTICAL.
- SALVAGE MATERIALS: MATERIALS AND ITEMS OF EQUIPMENT THAT IS TO BE REMOVED AND NOT REUSED SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER FOR INSPECTION AND DETERMINATION OF DISPOSITION.

ELECTRICAL LEGEND

(1/2 SHADED LT FIXTURES ON DWGS INDICATE NIGHT LIGHTS)

- REMOTE EGRESS HEAD
- EXIT SIGN
- 2X4 INDIRECT FLUORESCENT FIXTURE
- 2X2 INDIRECT FLUORESCENT FIXTURE
- STRIP LIGHT
- FLUORESCENT OR LED DOWNLIGHT
- WALL MOUNTED FIXTURE
- LOW VOLTAGE CIRCUIT/CONDUIT
- CIRCUIT/CONDUIT UNDERFLOOR/GRADE
- CIRCUIT/ CONDUIT
- BRANCH CIRCUIT HOMERUN
- SWITCH SINGLE POLE
- DIMMER SWITCH
- MOTOR RATED SWITCH
- MOTION SENSOR SWITCH
- CEILING MOUNTED OCCUPANCY SENSOR
- DUPLEX RECEPTACLE
- DUPLEX RECEPTACLE- HORIZ. 2" ABOVE BACKSPLASH
- DUPLEX GFI TYPE RECEPTACLE
- DUPLEX GFI RECEPTACLE- HORIZ. 2" ABOVE BACKSPLASH
- QUADRAPLEX RECEPTACLE
- QUADRAPLEX RECEPTACLE- HALF-SWITCHED
- REC QUADRAPLEX- HORIZ. 2" ABOVE BACKSPLASH
- DUPLEX RECEPTACLE- HALF-SWITCHED
- COMBINATION FLOOR OUTLET SEE DETAIL
- SYSTEM FURNITURE FLOOR OUTLET- SEE DETAIL
- EXISTING PANELBOARD (PNL)
- PANELBOARD (PNL)
- JUNCTION BOX
- DISCONNECT (ENCL SIZE/POLES/FUSE/NEMA)
- MOTOR
- COMM OUTLET- SEE DETAIL
- TV OUTLET- SEE DETAIL
- EXISTING TELEPHONE BACKBOARD (TBB)
- FA FIRE ALARM
- FA- PULL STATION WALL MTD
- FA- PULL STATION WALL MTD EXISTING
- FA- HORN/STROBE WALL MTD
- FA- HORN/STROBE WALL MTD EXISTING
- FA- HORN/STROBE CLG MTD
- FA- STROBE WALL MTD

ABBREVIATIONS

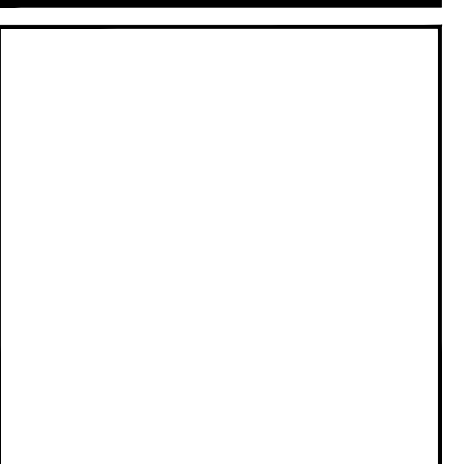
- AFF ABOVE FINISHED FLOOR/GRADE
- COMM COMMUNICATIONS
- EF EXHAUST FAN
- EWC ELECTRIC WATER COOLER
- FA FIRE ALARM
- FACP FIRE ALARM CONTROL PANEL
- GFI GROUND FAULT INTERRUPT
- GND GROUND
- MDP MAIN DISTRIBUTION PANEL
- NL NIGHT LIGHT
- TBB TELEPHONE BACKBOARD
- T/S TIMESWITCH
- SPD SURGE PROTECTION DEVICE
- WH WATER HEATER
- WP WEATHERPROOF
- XFMR TRANSFORMER

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REVISIONS:

DATE: 09/6/19

SPECIFICATIONS LEGEND AND NOTES

DRAWN BY: MH
 CHECKED BY: TMC

PROJECT NO.: 2019-22

E2.02

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9/9/19
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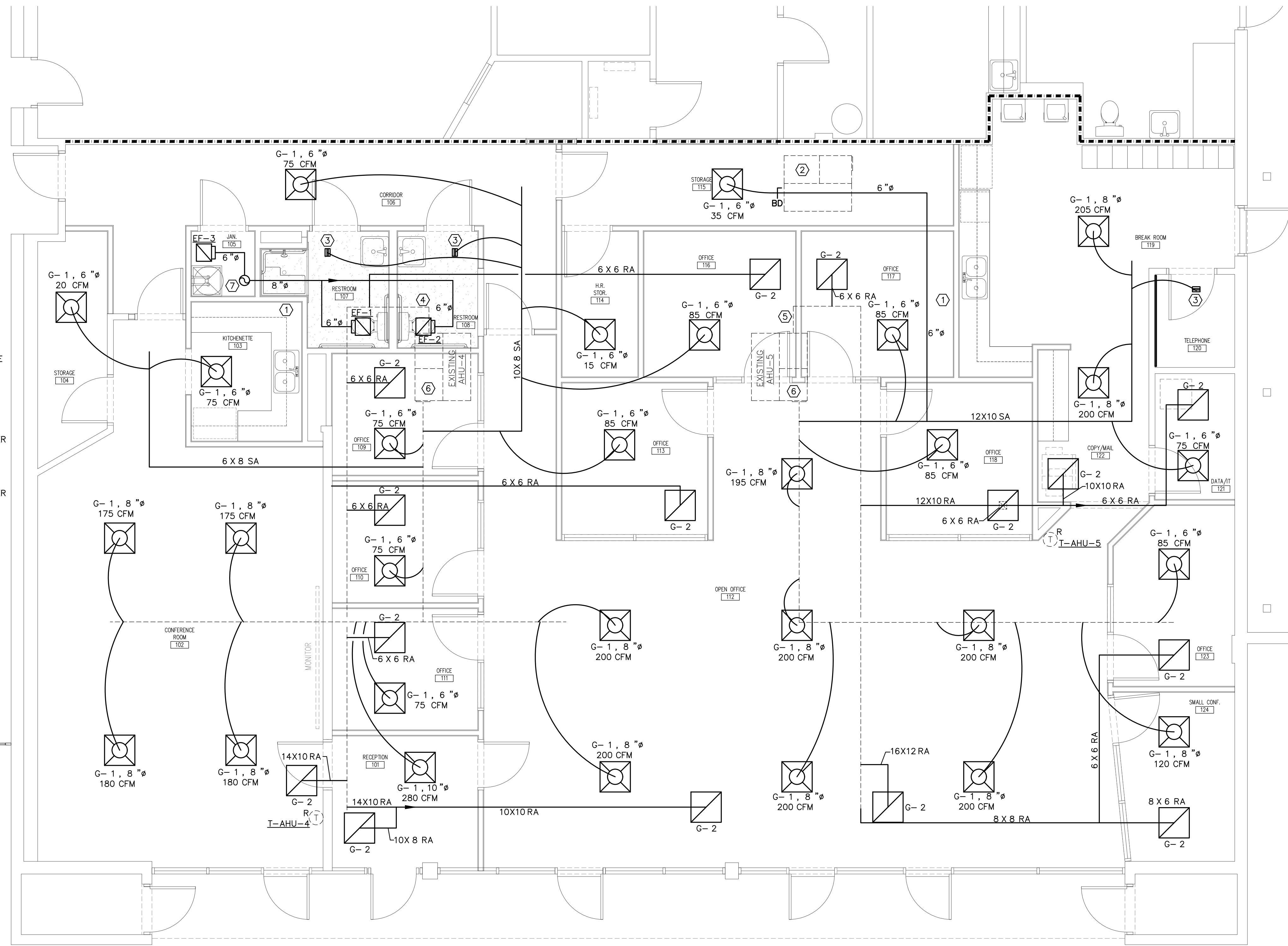
REVISIONS:

DATE: 09/6/19

HVAC FLOOR PLAN

DRAWN BY: KDW
 CHECKED BY: LRH
 PROJECT NO.: 2019-22

M1.01
 PERMIT SET



HVAC FLOOR PLAN
 SCALE: 1/4" = 1'-0"

- FLAG NOTES:**
- EXISTING RESTROOM EXHAUST FAN AND ASSOCIATED DUCT TO BE REMOVED.
 - EXISTING AIR HANDLER LOCATED ABOVE CORRIDOR TO BE RELOCATED TO OTHER SIDE OF DEMISING WALL FOR FUTURE BUILD-OUT. ALL ASSOCIATED SUPPLY AND RETURN DUCT LOCATED IN SCOPE OF WORK TO BE REMOVED.
 - 4" FLEX DUCT TO G-3, 6X4 N 15 CFM SUPPLY REGISTER.
 - PROVIDE 8" OUTSIDE AIR DUCT FROM GOOSENECK ON ROOF. PROVIDE MOTORIZED DAMPER SET AT 200 CFM. DAMPER TO BE INTERLOCKED WITH EXISTING AHU-4. PROVIDE MANUAL BALANCE DAMPER IN RETURN DUCT AFTER OUTSIDE AIR INTAKE AND BEFORE FIRST RETURN TAP.
 - PROVIDE 8" OUTSIDE AIR DUCT FROM GOOSENECK ON ROOF. PROVIDE MOTORIZED DAMPER SET AT 200 CFM. DAMPER TO BE INTERLOCKED WITH EXISTING AHU-5. PROVIDE MANUAL BALANCE DAMPER IN RETURN DUCT AFTER OUTSIDE AIR INTAKE AND BEFORE FIRST RETURN TAP.
 - EXISTING 5 TON AIR HANDLER TO REMAIN. SET SUPPLY TO 1950 CFM.
 - 8" EA DUCT UP TO GOOSENECK ON ROOF. MAINTAIN MINIMUM 10'-0" FROM OUTSIDE AIR INTAKES.

WALL TYPE LEGEND

NON RATED:	---
1 HR. RATED:	----
2 HR. RATED:	-----

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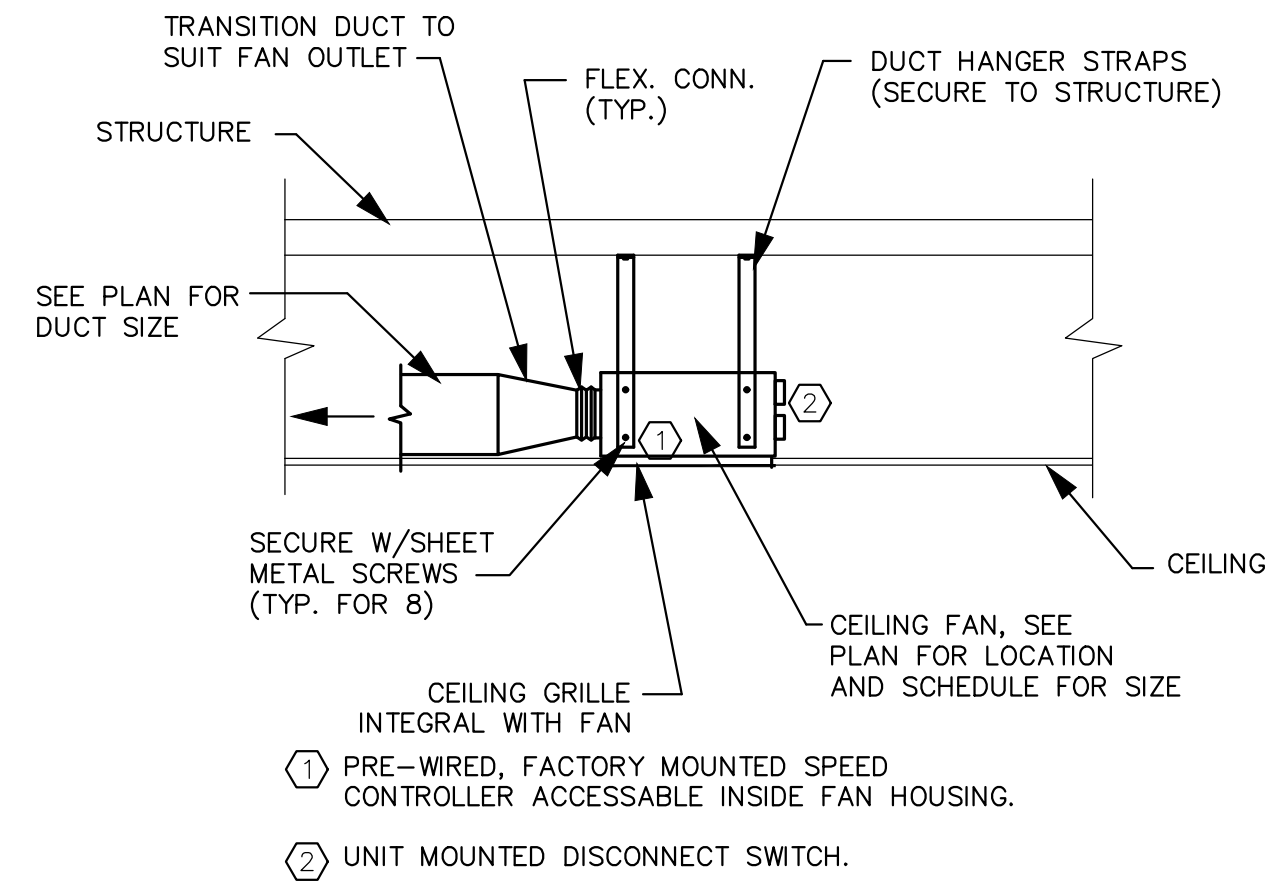
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HEATING, VENTILATING, AND AIR CONDITIONING SPECIFICATIONS

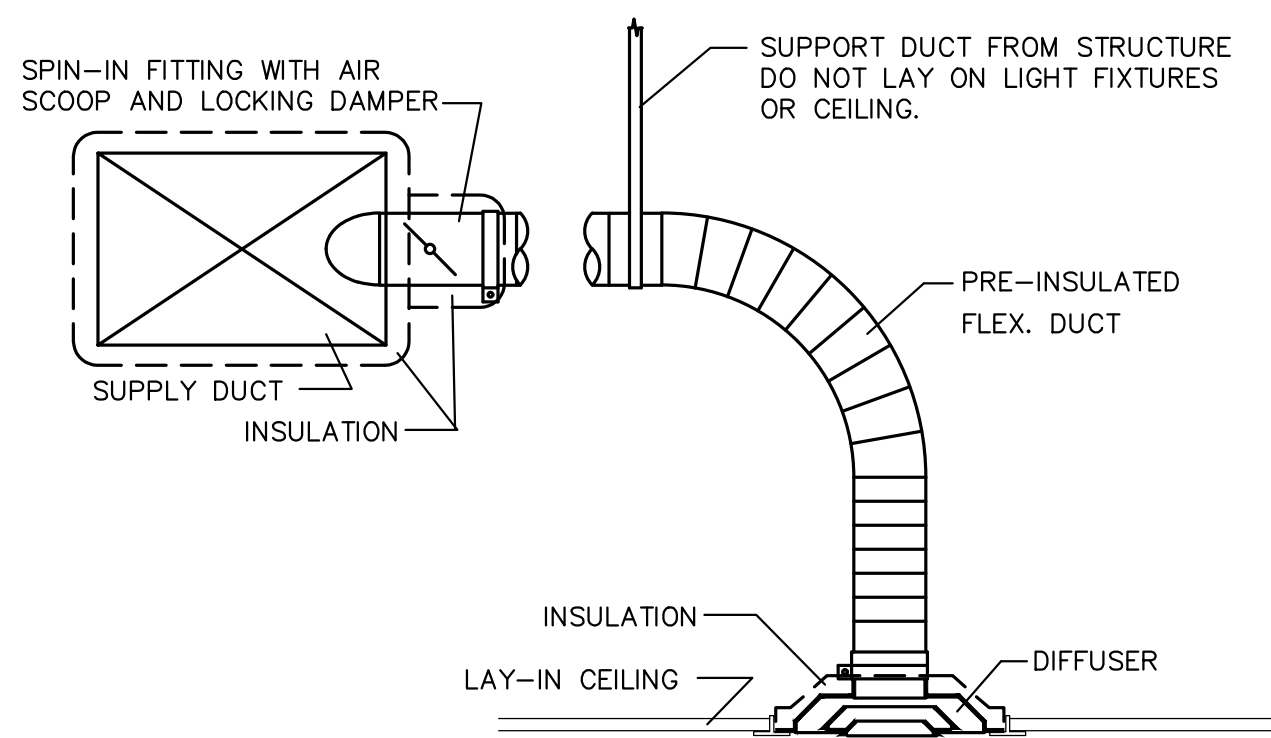
- SCOPE: PROVIDE A COMPLETE HEATING, AND AIR CONDITIONING SYSTEM AS SHOWN ON DRAWINGS AND MEETING THE REQUIREMENTS OF APPLICABLE STATE AND LOCAL CODES. OBTAIN ALL PERMITS AND NECESSARY CERTIFICATES. PROVIDE AIR TEST AND BALANCE FOR ALL HVAC SYSTEMS AND CONTROL SYSTEM SUPPORT DURING TAB WORK.
- GUARANTEE: PROVIDE ALL NEW MATERIALS AND EQUIPMENT, AND GUARANTEE SAME AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE.
- VISIT THE SITE AND THOROUGHLY INSPECT CONDITIONS AFFECTING THE WORK BEFORE SUBMITTING BID. ASSUME RESPONSIBILITY FOR MEETING ALL EXISTING CONDITIONS INCLUDING ACCESS AND WORK SPACE LIMITATIONS.
- SUBMIT SHOP DRAWINGS OR CATALOG DATA FOR THE ARCHITECT'S APPROVAL BEFORE PURCHASING OR INSTALLING THE FOLLOWING: GRILLES, DIFFUSERS AND REGISTERS, DUCT SHOP DRAWING (WHERE DIFFERENT FROM DESIGN DRAWING), EXHAUST FANS AND INSULATION.
- PROVIDE FOUR (4) COMPLETE SETS OF A COMPILATION OF CATALOG DATA OF EACH MANUFACTURED ITEM OF EQUIPMENT USED IN THE MECHANICAL WORK. IN ADDITION TO THE CATALOG DATA, INSTALLATION, OPERATING AND MAINTENANCE DATA AND BILL OF MATERIALS FOR ALL OPERATING EQUIPMENT SHALL BE SUBMITTED. EACH OF THE FOUR SETS OF DATA SHALL BE BOUND IN LOOSE LEAF BINDERS AND SUBMITTED TO THE ARCHITECT BEFORE FINAL PAYMENT IS MADE.
- MECHANICAL/ELECTRICAL COORDINATION: UNLESS SPECIFICALLY REQUIRED OTHERWISE, ELECTRICAL CONTRACTOR SHALL FURNISH, SET AND WIRE DISCONNECT DEVICES FOR AHU AND AC UNITS, AND SHALL PROVIDE ALL POWER WIRING. MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL A/C CONTROL DEVICES AND CONTROL WIRING. FURNISH DETAILED INFORMATION TO THE ELECTRICAL CONTRACTOR ON POWER WIRING REQUIREMENTS FOR ALL MECHANICAL EQUIPMENT ACTUALLY PURCHASED AS SOON AS PRACTICAL. THIS SHALL INCLUDE ALL DIAGRAMS AND INSTRUCTIONS NECESSARY FOR THE ELECTRICAL CONTRACTOR TO MAKE CONNECTIONS PROPERLY. IF EQUIPMENT ACTUALLY PURCHASED REQUIRES LARGER ELECTRICAL SERVICE THAN EQUIPMENT SCHEDULED, ARRANGE AND PAY FOR REQUIRED ELECTRICAL SERVICE CHANGE. PROVIDE ALL AIR CONDITIONING CONTROL DEVICES, INCLUDING THERMOSTATS, AND COMPLETE ALL CONTROL WIRING, INCLUDING FINAL CONNECTIONS. COORDINATE LOCATION OF EQUIPMENT, PIPING, AND DUCTWORK WITH ELECTRICAL CONTRACTOR, FIRE PROTECTION CONTRACTOR, AND PLUMBING CONTRACTOR TO MAINTAIN CLEARANCE FOR EQUIPMENT MAINTENANCE, PREVENT INTERFERENCE WITH DUCT AND PIPING RUNS, AND TO PREVENT DUCTS AND PIPING FROM BEING INSTALLED OVER ELECTRICAL PANELS. IF INTERFERENCE DEVELOPS, THE ARCHITECT WILL DECIDE WHICH EQUIPMENT, CONDUIT, DUCT, PIPING, ETC., MUST BE RELOCATED REGARDLESS OF INSTALLATION ORDER. TAKE RESPONSIBILITY FOR RELOCATING MECHANICAL WORK, IF SO ORDERED, INCLUDING ALL ASSOCIATED COSTS. WITHIN 30 DAYS FOLLOWING AWARD OF THE CONTRACT, REPORT TO THE ARCHITECT IN WRITING, ALL REAL OR POTENTIAL ERRORS, AMBIGUITIES AND/OR CONFLICTS ON THE MECHANICAL WORK OR BETWEEN THE TRADES AND OBTAIN AN AGREEMENT WITH THE ARCHITECT ON A SOLUTION. THOSE REPORTED AFTER 30 DAYS, EXCEPT AS A RESULT OF UNFORESEEN CIRCUMSTANCES, SHALL BE RESOLVED AT THE DISCRETION OF THE ARCHITECT. REPORT CONFLICTS RESULTING FROM THE PROGRESS OF WORK TO THE ARCHITECT IMMEDIATELY OR ACCEPT THE EXPENSE FOR CORRECTIVE WORK CAUSED BY FAILURE TO REPORT SUCH A CONFLICT.
- FLEXIBLE DUCT SHALL BE PRE-INSULATED TYPE, LISTED BY UNDERWRITERS' LABORATORIES, INC., CLASS 1 DUCTS, AND SHALL CONFORM TO NFPA BULLETIN 90--A. INSULATION SHALL BE THE REQUIRED THICKNESS AND MATERIAL TO PROVIDE A MINIMUM THERMAL RESISTANCE "R" OF 5.0 WHEN DUCT IS LOCATED IN ATTIC SPACES ABOVE THE BUILDING INSULATION AND 3.3 WHEN LOCATED BELOW THE BUILDING INSULATION UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- AIR DISTRIBUTION EQUIPMENT: AIR DISTRIBUTION DEVICES SHALL BE SELECTED TO DELIVER INDICATED VOLUME OF SUPPLY AIR WITHOUT EXCEEDING THE AVAILABLE THROW AND WITH AN NC RATING NOT EXCEEDING 30, INCLUDING HALF OPEN DAMPER. SUBMITTAL DATA SHALL INDICATE PERFORMANCE OF SELECTED DEVICES INCLUDING AIR QUANTITY, PATTERN, THROW, PRESSURE DROP, SOUND LEVEL, FINISH, DIMENSIONS AND CONSTRUCTION. SUPPLY DIFFUSERS AND RETURN GRILLS SHALL BE AS SCHEDULED ON DRAWINGS AND SHALL HAVE BAKED ENAMEL FINISH WITH COLOR SELECTED BY ARCHITECT.
- EXHAUST FAN SHALL BE OF SIZE, TYPE AND CAPACITY INDICATED ON THE DRAWINGS. POWER SUPPLY SHALL BE AS SCHEDULED. THE COMPLETE UNITS SHALL BE APPROVED BY THE UNDERWRITERS' LABORATORIES AND BE IN FULL ACCORDANCE WITH ALL PROVISIONS OF THE NATIONAL ELECTRIC CODE.
- TEST, BALANCE AND OPERATION: PROVIDE TEMPORARY FILTERS PRIOR TO OPERATING EQUIPMENT. TEST AND BALANCE ALL AIR SYSTEMS IN ACCORDANCE WITH AABC NATIONAL STANDARDS. PROVIDE TAB AGENCY WITH TECHNICAL SUPPORT TO OPERATE ALL CONTROL FUNCTIONS DURING TAB WORK. PROVIDE 24-HOUR OPERATIONAL TESTS TO SATISFACTION OF OWNER, INSTRUCT OWNER, AND PROVIDE OPERATING, PARTS LIST, AND MAINTENANCE MANUAL. AFTER CONSTRUCTION DUST HAS BEEN REMOVED FROM BUILDING BY TEMPORARY FILTERS, INSTALL NEW FILTERS.
- LEAVE ALL SYSTEMS COMPLETELY OPERATIVE IN ALL DETAILS AND IN SATISFACTORY WORKING CONDITION, AS DETERMINED BY THE ARCHITECT. FURNISH AND INSTALL AS PART OF THIS CONTRACT ALL APPARATUS AND MATERIAL OBVIOUSLY A PART OF THE SYSTEMS AND NECESSARY FOR THEIR OPERATION.
- EQUIPMENT IDENTIFICATION: PROVIDE IDENTIFICATION NAMEPLATES ON ALL MECHANICAL RELATED EQUIPMENT INCLUDING CONTROL DEVICES, GIVING THE NAME AND NUMBER OF THE ITEM OF EQUIPMENT TO WHICH IT IS CONNECTED.

HVAC GENERAL NOTES

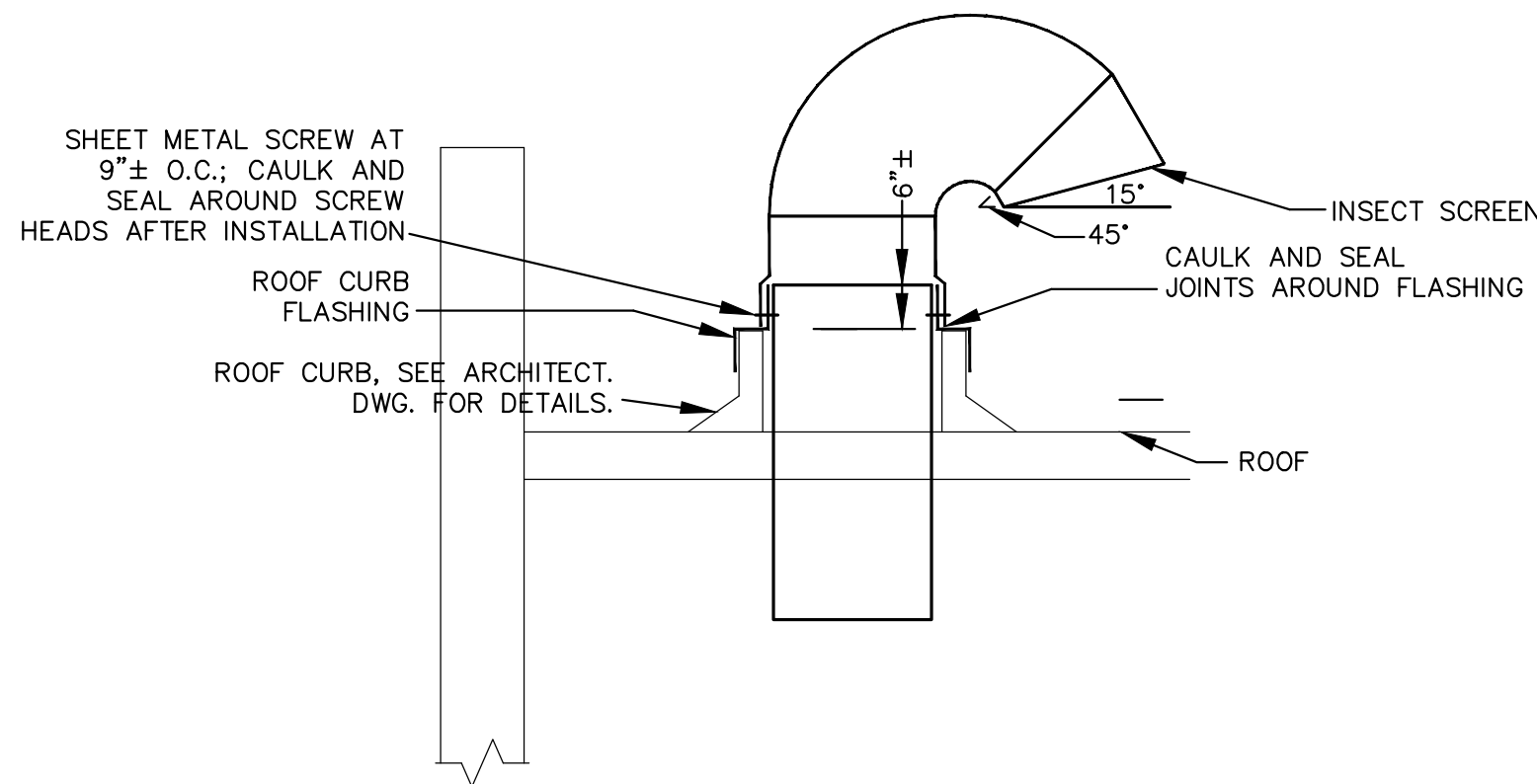
- MECHANICAL CONTRACTOR TO INSPECT EXISTING DUCTWORK SERVING THIS TENANT AREA FOR POSSIBLE DAMAGE AND PROVIDE ADDITIONAL BRACING AND SUPPORT AS REQUIRED AND RECOMMENDED BY SMACNA, AS PART OF THIS CONTRACT.
- COORDINATE EXISTING MECHANICAL EQUIPMENT & DUCTWORK WITH ANY NEW FULL HEIGHT WALLS. RELOCATE EQUIPMENT AND/OR MODIFY DUCTWORK AS NECESSARY.
- PROVIDE GASKETED SHEET METAL PATCH OVER ALL UN-USED OPENINGS IN EXISTING DUCTWORK.
- ALL NEW DUCT WORK SHALL MATCH EXISTING. ALL NEW INSULATION SHALL MATCH EXISTING. REPAIR OR REPLACE DISTURBED EXISTING INSULATION.
- REPLACE ALL FILTERS IN AIR HANDLING UNITS SERVING THIS AREA UPON COMPLETION OF CONSTRUCTION AND PRIOR TO TEST AND BALANCE WORK BEGINNING.
- PROVIDE INSULATED SUB-BASE ON TEMPERATURE SENSORS MOUNTED ON PERIMETER COLUMNS OR WALLS.
- RETAIN AN INDEPENDENT TEST AND BALANCE CONTRACTOR TO TEST, ADJUST, AND BALANCE ALL AIR SYSTEMS WITHIN THE BOUNDARIES OF THIS TENANT WORK INCLUDING AIR HANDLING UNITS. VERIFY OPERATION OF CONTROLS ON ALL TERMINAL UNITS, FAN COIL UNITS AND AIR HANDLING UNITS.
- TEST AND BALANCE ALL SUPPLY AIR DIFFUSERS TO NEW AIR QUANTITIES SHOWN NEXT TO EACH SUPPLY DIFFUSER.



TYPICAL CEILING FAN MOUNTING DETAIL
N.T.S.



DIFFUSER INSTALLATION DETAIL
N.T.S.



GOOSENECK DETAIL
N.T.S.

EQUIPMENT SCHEDULE - FAN			
APPROVED MANUFACTURER		LOREN COOK CO.	
EQUIPMENT NUMBER	EF-1	EF-2	EF-3
MOUNTING TYPE	CEILING	CEILING	CEILING
FAN	TYPE	CENTRIFUGAL	CENTRIFUGAL
	DRIVE	DIRECT	DIRECT
	RPM	833	833
	CFM	70	70
	S.P.	.25	.25
MOTOR	HP	56 WATTS	56 WATTS
	VOLTS/PHASE	120V/1Ø	120V/1Ø
MODEL NUMBER	GC-124	GC-124	GC-124
ACCESSORIES/REMARK	(1)(2)(3)(4)	(1)(2)(3)(4)	(1)(2)(3)(4)

NOTE:
(1): BACK DRAFT DAMPER
(2): SPEED CONTROLLER
(3): UNIT MOUNTED DISCONNECT
(4): LIGHT SWITCH CONTROLLED.

AIR BALANCE SCHEDULE					
MARK	SUPPLY AIR CFM	RETURN AIR CFM	OUTSIDE AIR CFM	EXHAUST AIR CFM	DIFFERENTIAL CFM
AHU-4	1950	1750	200	0	+200
AHU-5	1950	1750	200	0	+200
EF-1	0	0	0	70	-70
EF-2	0	0	0	70	-70
EF-3	0	0	0	70	-70
TOTAL	3900	3500	400	210	+190

EQUIPMENT SCHEDULE - DIFFUSERS, GRILLES & REGISTERS			
NOTES: SEE ARCH. REFLECTED CEILING PLAN FOR EXACT LOCATION OF CEILING DIFFUSERS. ALL FLEXIBLE DUCT CONNECTIONS TO RECTANGULAR DUCT TO BE SPIN-INS WITH AIR SCOOP AND BALANCE DAMPER. NECK SIZE AS SHOWN ON THE DRAWINGS.			
APPROVED MANUFACTURER:		TITUS (EXCEPT AS NOTED *)	
EQUIP. NO.	MOUNTING TYPE	MODEL NUMBER	ACCESSORIES/REMARKS
G-1	LAY-IN CEILING(SUPPLY)	TDC	
G-2	LAY-IN CEILING (RETURN)	50F-NT (24X24)	
G-3	SURFACE (SUPPLY)	250	AG-15 DAMPER, (1)

(1). PROVIDE RECTANGLE TO ROUND TRANSITION.

HVAC LEGEND

- AHU AIR HANDLING UNIT
- CU CONDENSING UNIT
- EF EXHAUST FAN
- - - - - EXISTING FLEXIBLE DUCT
- - - - - EXISTING DUCT AND EQUIPMENT TO REMAIN
- - - - - EXISTING DUCT AND EQUIPMENT TO BE REMOVED
- — — — — NEW FLEXIBLE DUCT
- — — — — NEW DUCT
- — — — — DUCT TRANSITION
- SA SUPPLY AIR
- RA RETURN AIR
- EA EXHAUST AIR
- BD BALANCING DAMPER
- ☒ NEW SUPPLY DIFFUSER
- ☐ NEW RETURN GRILLE
- R (1) RELOCATED EXISTING THERMOSTAT

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ELECTRICAL, MECHANICAL & PLUMBING
POWELL & HINKLE ENGINEERING
LICENSE # 4577

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NO.	REVISIONS

DATE	BY

DATE: 09/6/19

HVAC SCHEDULES AND DETAILS

DRAWN BY: KDW
CHECKED BY: LRH

PROJECT NO.: 2019-22

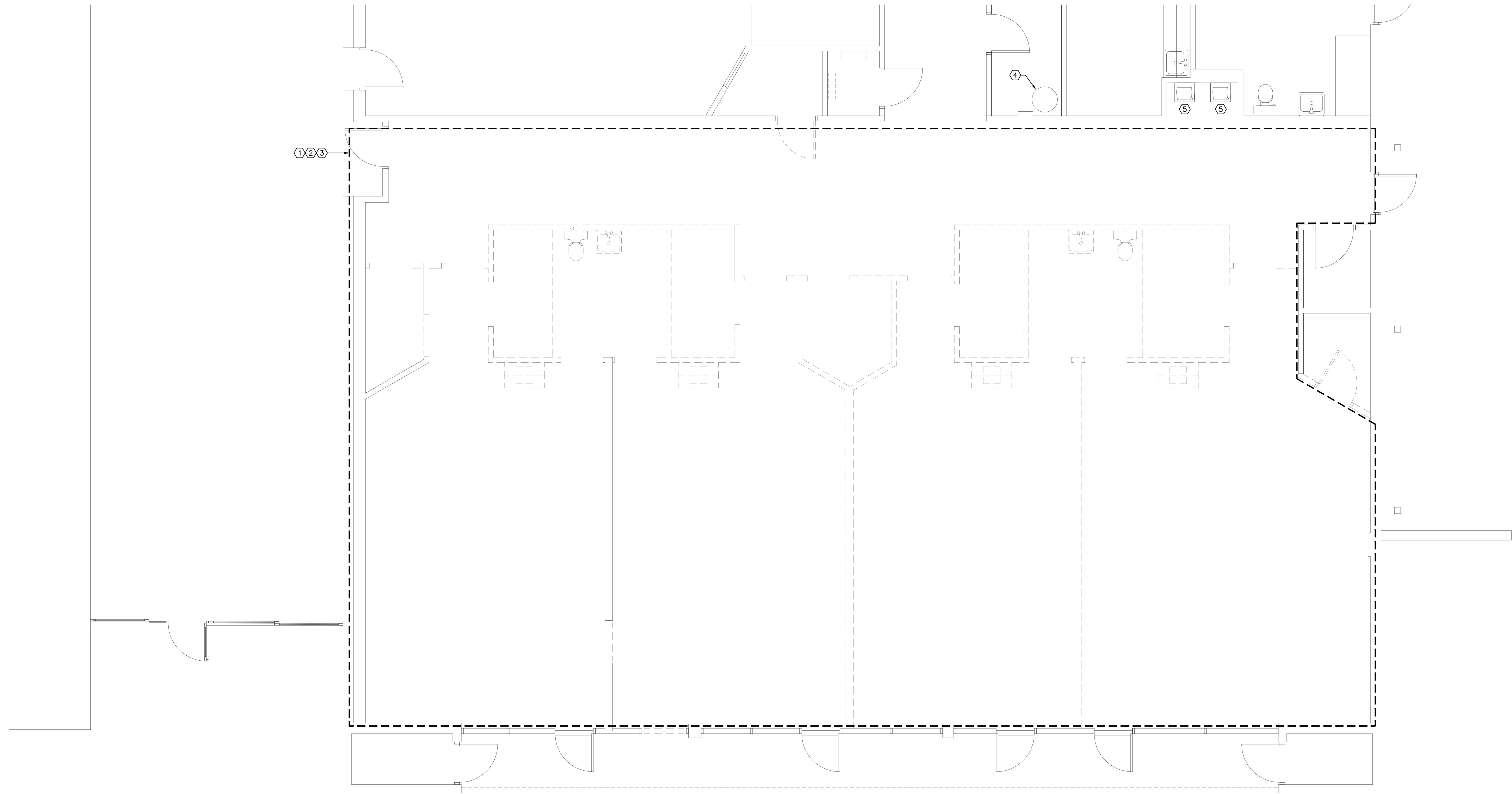
M2.01

PERMIT SET

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DAVID R. SPELL JR. PE 54729
JAMES L. HENNESSEY PE 83241

8/27/19
3169M2.01



- PLUMBING PLAN KEYNOTES**
- ① ALL PLUMBING FIXTURES LOCATED WITHIN THIS AREA SHALL BE REMOVED. ALL EXISTING EXTERIOR WALL HYDRANTS SHALL REMAIN CONNECTED AND ACTIVE. FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF WORK.
 - ② CAP EXISTING WASTE PIPING SERVING FIXTURES BEING REMOVED BELOW FLOOR AND REMOVE ALL UNUSED PIPING. CAP EXISTING VENT PIPING SERVING FIXTURES BEING REMOVED ABOVE CEILING AND REMOVE ALL UNUSED PIPING.
 - ③ CAP EXISTING DOMESTIC COLD WATER SUPPLY PIPING SERVING FIXTURES BEING REMOVED ABOVE CEILING AND BACK AT NEAREST ACTIVE MAIN. REMOVE ALL UNUSED PIPING. CAP EXISTING DOMESTIC HOT WATER SUPPLY PIPING SERVING FIXTURES BEING REMOVED ABOVE CEILING BACK AT THE EXISTING CENTRAL WATER HEATER ROOM AND REMOVE ALL UNUSED PIPING.
 - ④ EXISTING CENTRAL WATER HEATER ROOM. DOMESTIC HOT WATER PIPING SERVING SPACE BEING RENOVATED SHALL BE CAPPED BACK AT THIS LOCATION, AND ALL UNUSED PIPING SHALL BE REMOVED. A NEW WATER HEATER IS SCHEDULED TO BE INSTALLED WITHIN THE RENOVATED SPACE TO FEED THAT SPECIFIC AREA ONLY. SEE SHEET P2.01 FOR ADDITIONAL INFORMATION.
 - ⑤ EXISTING HI/LOW ELECTRIC WATER COOLERS SHALL REMAIN CONNECTED AND ACTIVE. INSPECT, CLEAN AND REFURBISH AS REQUIRED TO ENSURE PROPER WORKING ORDER.

PLUMBING DEMOLITION PLAN
 SCALE: 1/4" = 1'-0"

8/26/19
 3169P1.01

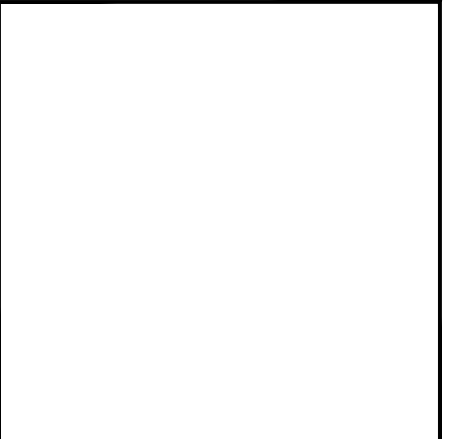
	POWELL & HINKLE ENGINEERING, P.A. 1409 KINGSLEY AVENUE, BLDG 12A ORANGE PARK, FLORIDA 32073 (904) 264-5570 FAX:(904) 278-2646 LICENSE NUMBER CA-4577	ROBERT L. HINKLE PE 29302 GALTON C. MOK PE 33192 LANE R. HINKLE PE 48076 THOMAS M. ELDER PE 56121 RICHARD A. MATHEWS PE 59418 DAVID R. SPELL JR. PE 54729 JAMES L. HENNESSEY PE 83241
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PLUMBING DEMOLITION PLAN

DRAWN BY: SDB
 CHECKED BY: LRH
 PROJECT NO.: 2019-22

P1.01
 PERMIT SET

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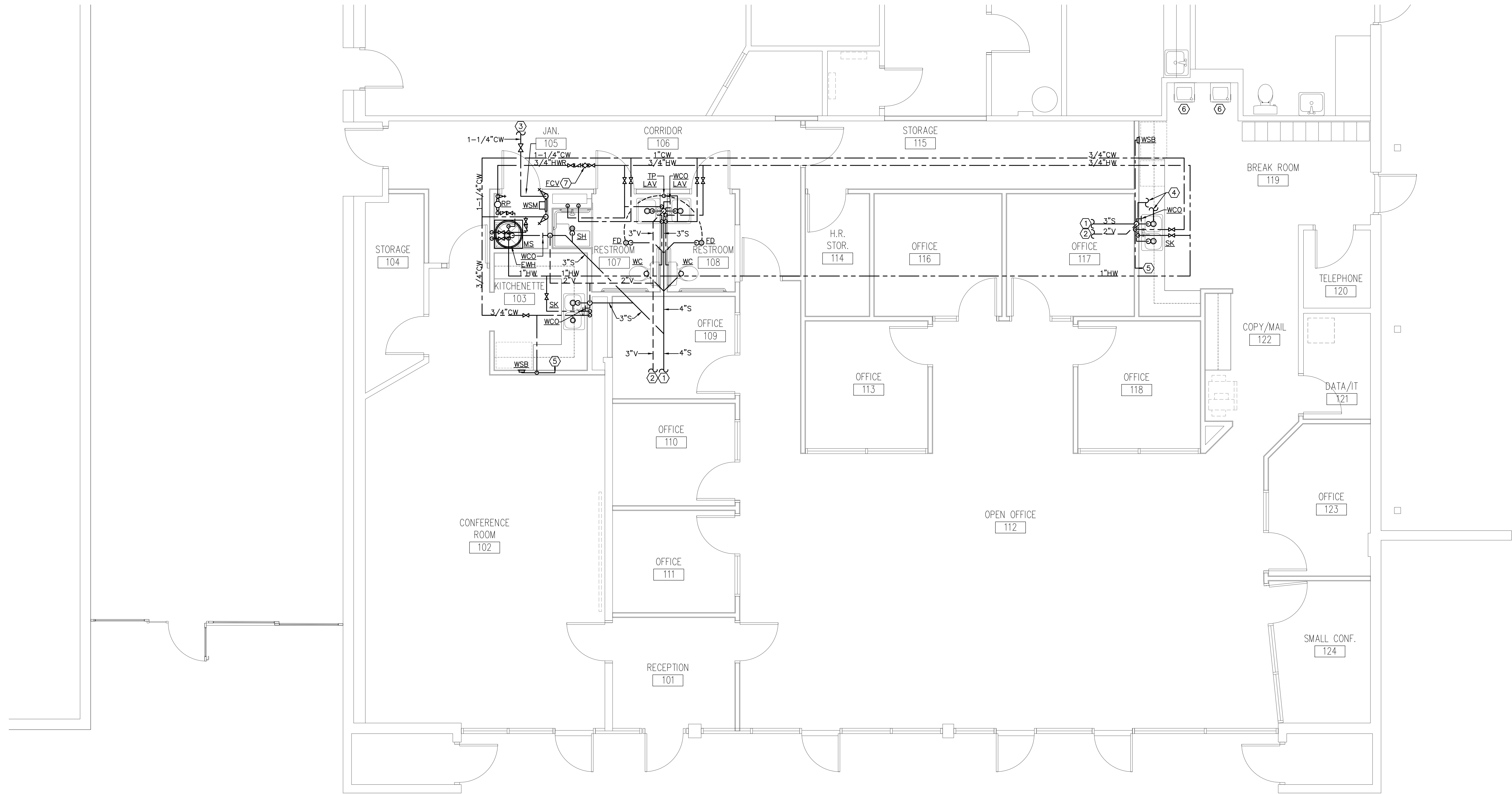
DATE: 09/6/19

PLUMBING RENOVATION PLAN

DRAWN BY: SDB
 CHECKED BY: LRH
 PROJECT NO.: 2019-22

P2.01

PERMIT SET



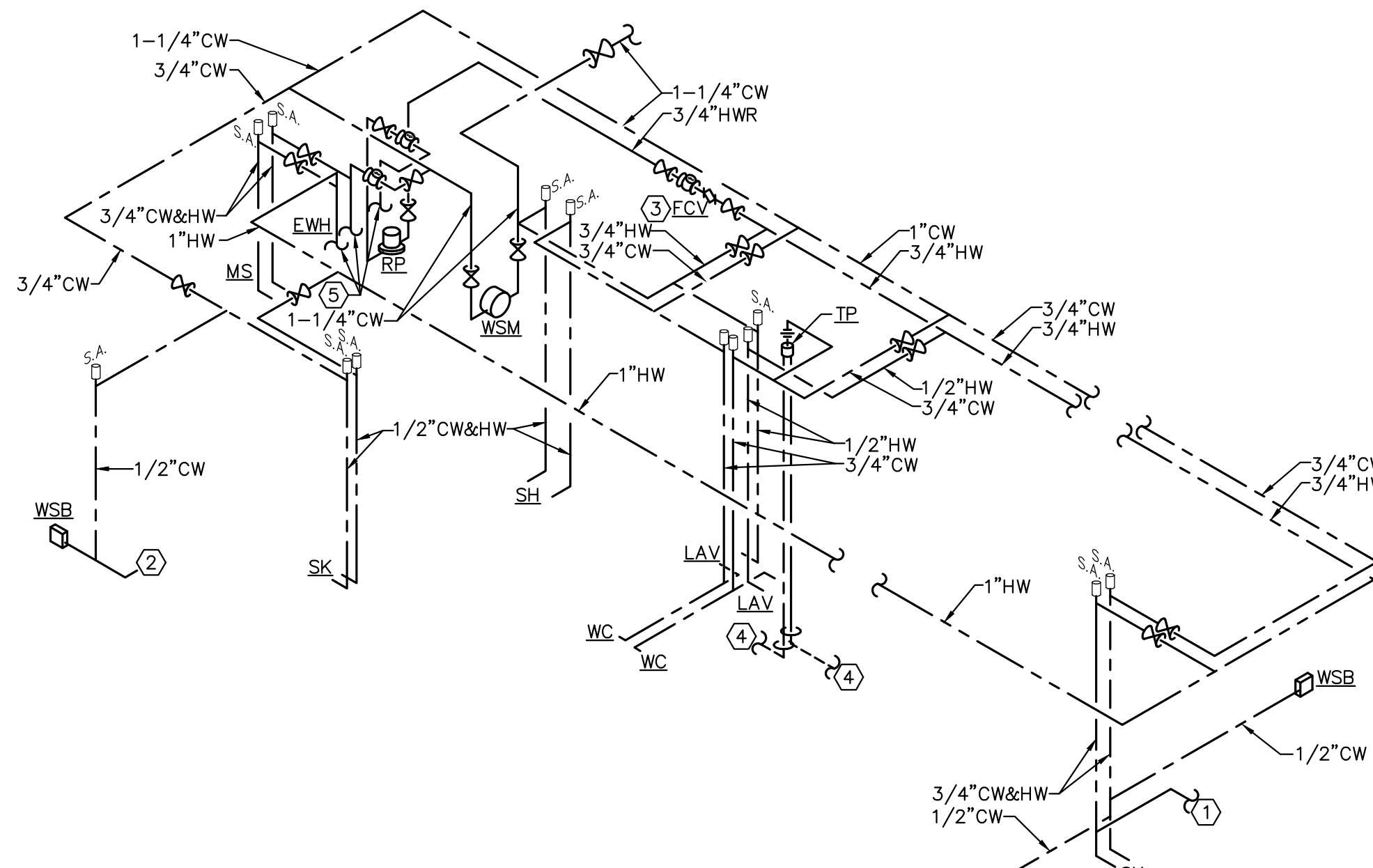
- FIRE PROTECTION NOTES**
1. THIS AREA IS PROTECTED BY AN EXISTING FIRE PROTECTION SYSTEM. CONTRACTOR SHALL RELOCATE EXISTING SPRINKLER HEADS AND PROVIDE NEW SPRINKLER HEADS AS REQUIRED TO ACCOMMODATE NEW EQUIPMENT AND CEILING LAYOUT IN STRICT ACCORDANCE WITH NFPA 13.
 2. SPRINKLER HEADS IN AREAS WITH FINISHED CEILINGS SHALL BE PENDANT TYPE. UPRIGHT HEADS SHALL BE USED IN ALL OTHER AREAS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.
 3. INSTALL NEW PENDANT SPRINKLER HEADS CENTERED IN THE CEILING TILES AS MEASURED FROM THE CEILING GRID "T" BARS IN BOTH DIRECTIONS WITH A MAXIMUM TOLERANCE OF 2" IN EITHER DIRECTION. SPRINKLER HEADS AT DRYWALL CEILINGS SHALL BE CONCEALED HEADS CENTERED WITH LIGHTS. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION.
 4. PROVIDE ADDITIONAL SPRINKLER HEADS AND PIPING AS REQUIRED TO COORDINATE WITH THE WORK OF OTHER TRADES IN THE FIELD. SPRINKLER HEADS AND PIPING SHALL MATCH EXISTING MATERIALS SPECIFIED IN THE SHELL BUILDING PROJECT MANUAL AND IN ACCORDANCE WITH NFPA 13.
 5. TAKE FULL RESPONSIBILITY FOR COORDINATING THE SPRINKLER SYSTEM WITH LIGHTS, DUCT WORK, HVAC EQUIPMENT, STRUCTURAL SYSTEM, WALLS, CABINETS, ETC., TO ENSURE NO INTERFERENCES SHALL OCCUR. MAKE NECESSARY OFFSETS AS REQUIRED TO ENSURE SPECIFIED TOLERANCES FOR CLEARANCE FROM ADJACENT WORK. AVOID INTERFERENCE WITH DUCT AND PIPING RUNS AND TO PREVENT PIPING FROM BEING INSTALLED OVER ELECTRICAL PANELS.

- PLUMBING PLAN KEYNOTES**
1. CONNECT NEW SANITARY PIPING TO EXISTING UNDERGROUND SANITARY PIPING OF EQUAL OR GREATER SIZE. BACKFILL, COMPACT AND REINSTALL VAPOR BARRIER. FIELD VERIFY EXACT LOCATION, SIZE AND INVERT ELEVATION OF EXISTING PIPING PRIOR TO COMMENCEMENT OF WORK.
 2. CONNECT NEW VENT PIPING TO EXISTING VENT PIPING OF EQUAL OR GREATER SIZE LOCATED ABOVE CEILING. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING PIPING PRIOR TO COMMENCEMENT OF WORK.
 3. CONNECT NEW DOMESTIC COLD WATER PIPING TO EXISTING DOMESTIC COLD WATER PIPING OF EQUAL OR GREATER SIZE LOCATED ABOVE CEILING. FIELD VERIFY EXACT LOCATION AND SIZE OF EXISTING PIPING PRIOR TO COMMENCEMENT OF WORK.
 4. CONNECT TO DISHWASHER IN ACCORDANCE WITH THE 2017 FLORIDA PLUMBING CODE.
 5. 1/2" CW SUPPLY WITH LEAD-FREE CHROME PLATED BRASS QUARTER TURN WALL STOP FOR COFFEE MACHINE. LOCATE WALL STOP BELOW COUNTERTOP IN AN AREA THAT WILL NOT INTERFERE WITH DRAWER OPERATION. COORDINATE WITH THE MILLWORK CONTRACTOR.
 6. EXISTING HI/LOW ELECTRIC WATER COOLERS SHALL REMAIN CONNECTED AND ACTIVE. INSPECT, CLEAN AND REFURBISH AS REQUIRED TO ENSURE PROPER WORKING ORDER.
 7. BALANCING VALVE, SET TO DELIVER 0.5 GPM.

PLUMBING RENOVATION PLAN
 SCALE: 1/4" = 1'-0"

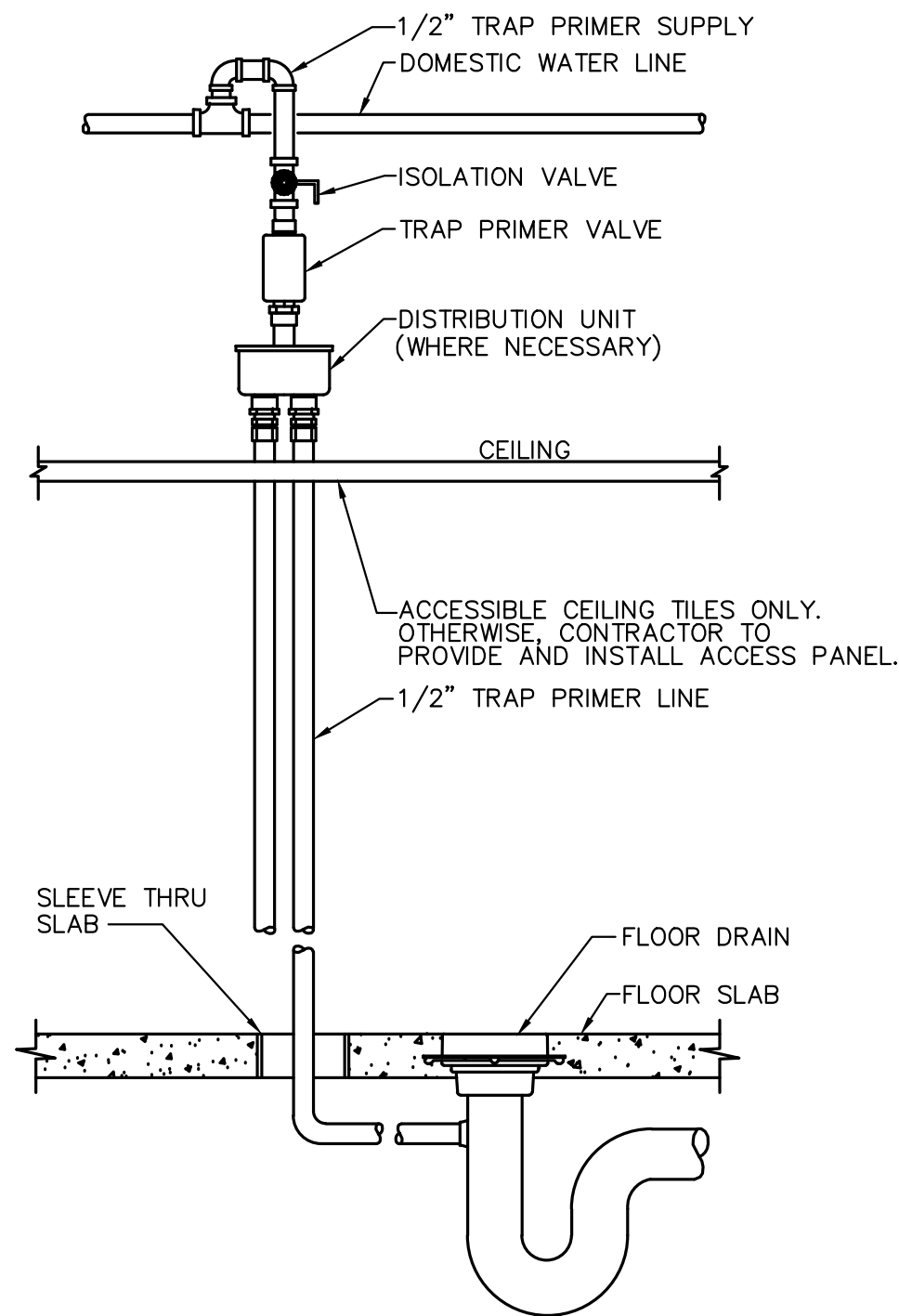
9/6/19
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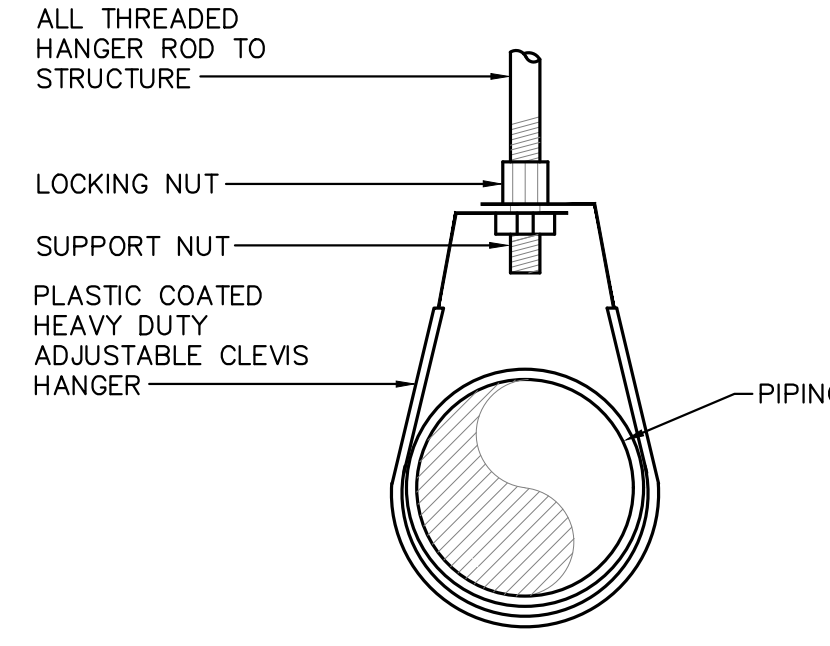


- PLUMBING KEYNOTES**
- CONNECT TO DISHWASHER IN ACCORDANCE WITH THE 2017 FLORIDA PLUMBING CODE.
 - 1/2\"/>

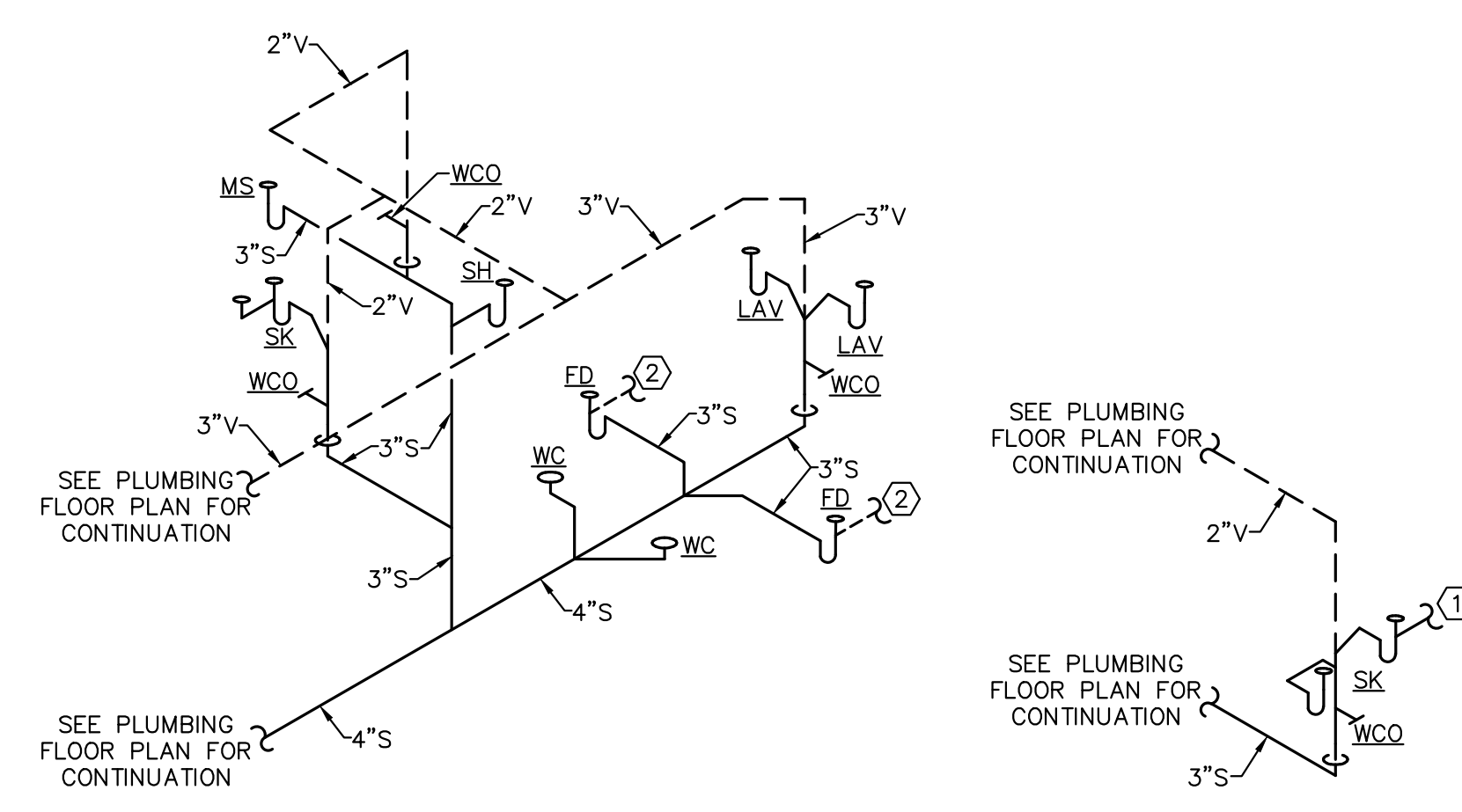
DOMESTIC WATER RISER DIAGRAM
NOT TO SCALE



DETAIL - TRAP PRIMER
NOT TO SCALE

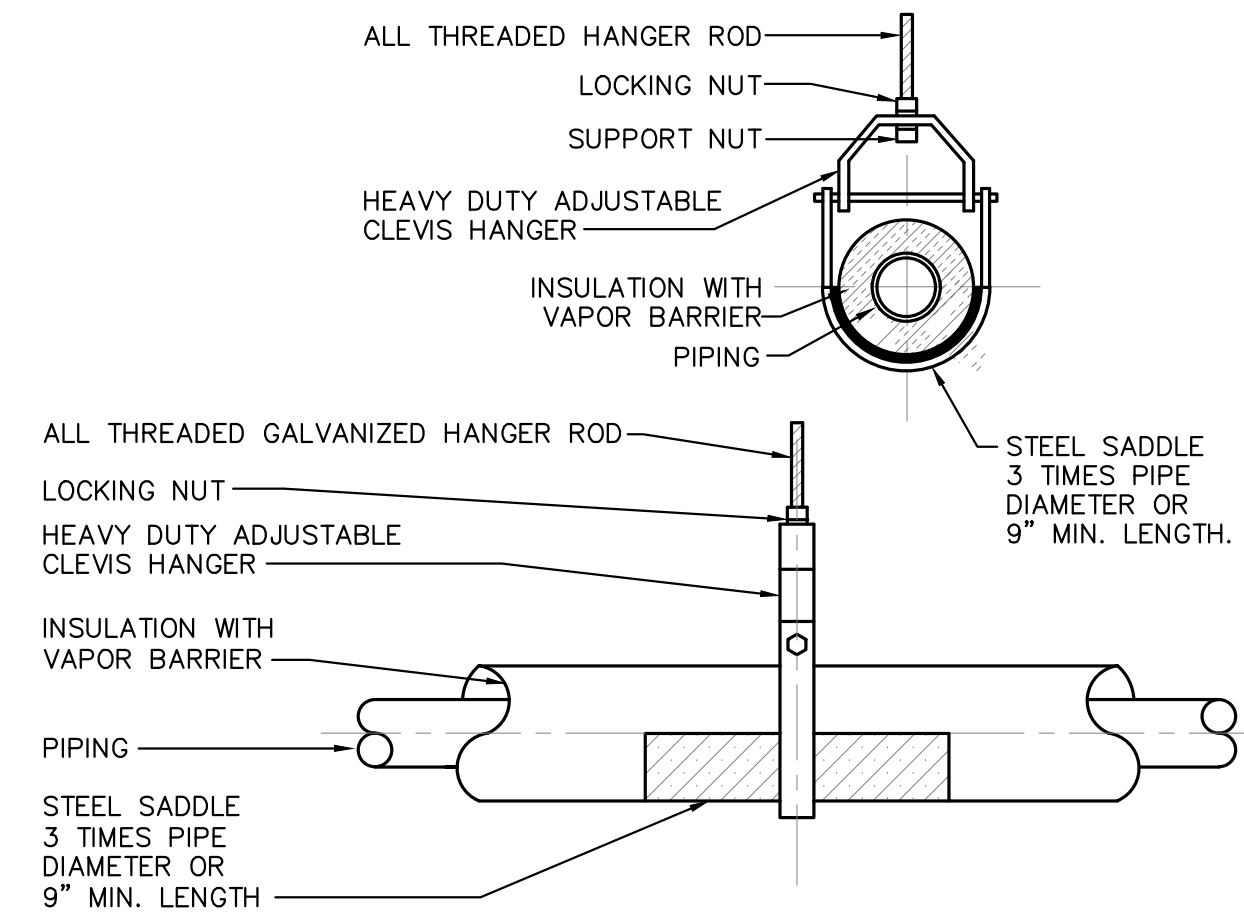


DETAIL - PIPE HANGER FOR NON-INSULATED PIPE
NOT TO SCALE

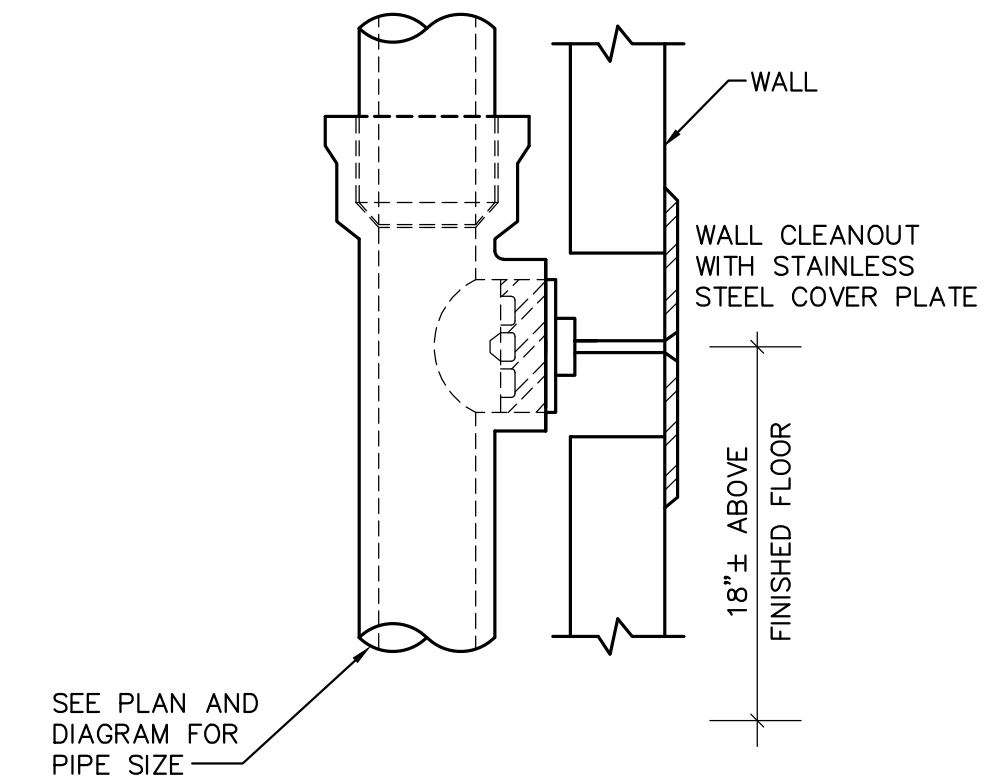


- PLUMBING KEYNOTES**
- CONNECT TO DISHWASHER IN ACCORDANCE WITH THE 2017 FLORIDA PLUMBING CODE.
 - FROM TRAP PRIMER.

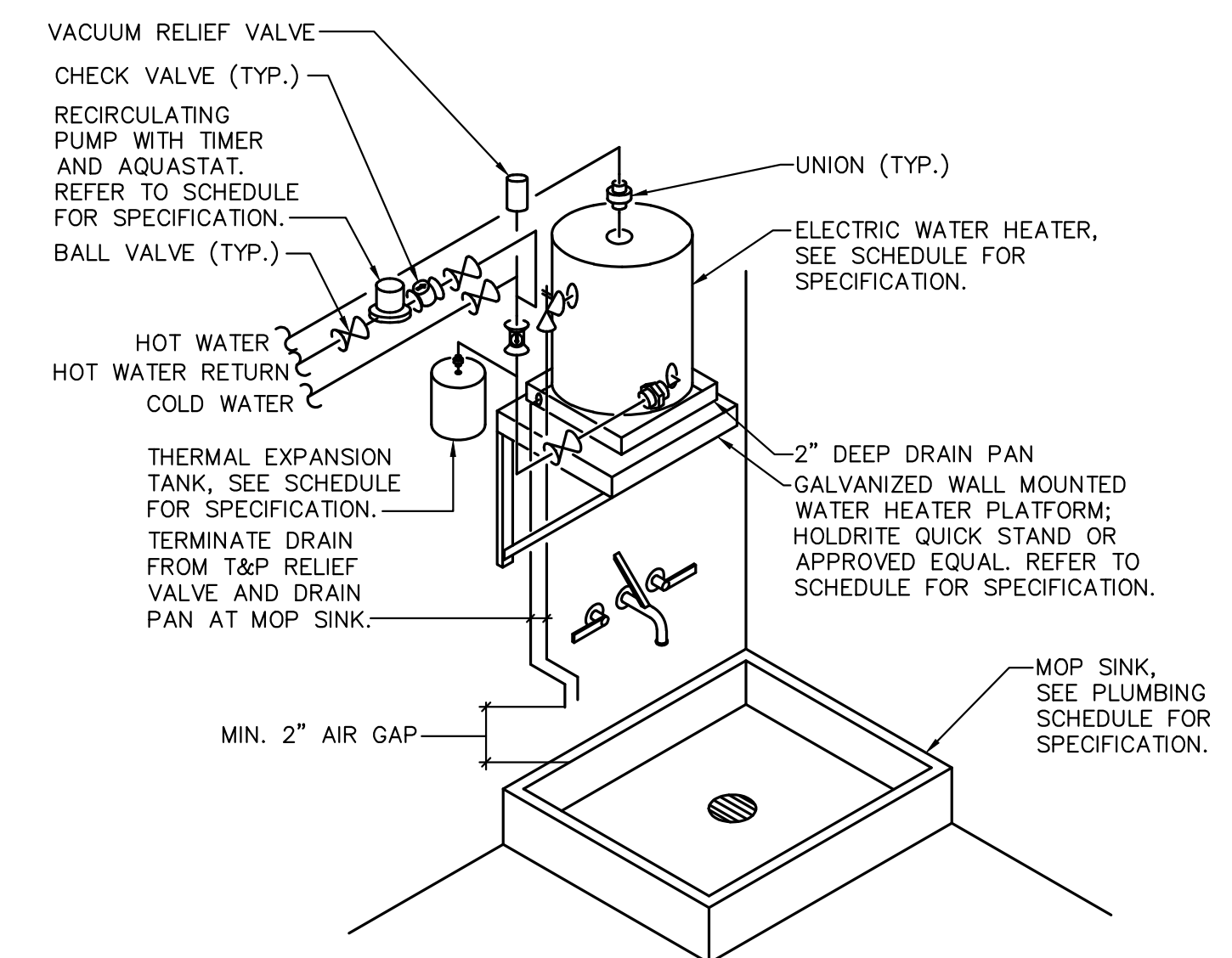
WASTE & VENT RISER DIAGRAM
NOT TO SCALE



DETAIL - PIPE HANGER FOR INSULATED PIPE
NOT TO SCALE



DETAIL - WALL CLEANOUT
NOT TO SCALE



- NOTES:**
- LOCATION AND ARRANGEMENT OF EQUIPMENT SHOWN IS DIAGRAMMATIC ONLY. REFER TO PLUMBING PLANS FOR EQUIPMENT LOCATIONS. INSTALL WATER HEATER IN STRICT ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS.
 - TERMINATE T&P RELIEF VALVE DRAIN AND DRAIN PAN DRAIN OVER MOP SINK WITH AIR GAP PER CODE.
 - SEE PLUMBING DRAWINGS FOR CONTINUATION OF ALL PIPING. SEE PLUMBING SCHEDULES FOR SPECIFICATIONS OF ALL EQUIPMENT SHOWN ON THIS DETAIL.
 - MAINTAIN MINIMUM 30\"/>

DETAIL - ELECTRIC WATER HEATER
NOT TO SCALE

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DATE: 09/6/19

PLUMBING DETAILS AND RISER DIAGRAMS

DRAWN BY: SDB
CHECKED BY: LRH
PROJECT NO.: 2019-22

P3.01

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