



Orange County Government Capital Projects Division Orange County Code Enforcement Office Renovations

2450 West 33rd Street, Orlando, Florida 32839

PROJECT SCOPE

The proposed project scope includes the renovation of the second floor for the Orange County Code Enforcement Offices at the Cassidy Building. The renovation includes the replacement of restrooms, offices, conference room and open areas. The mechanical, plumbing and technology will be updated according to room modification and required to accommodate the new work and new ceiling. The electrical work will include replacement of generator, transformer, transfer switch, gear and electrical panels on the entire building. No other exterior work shall be required for this project.

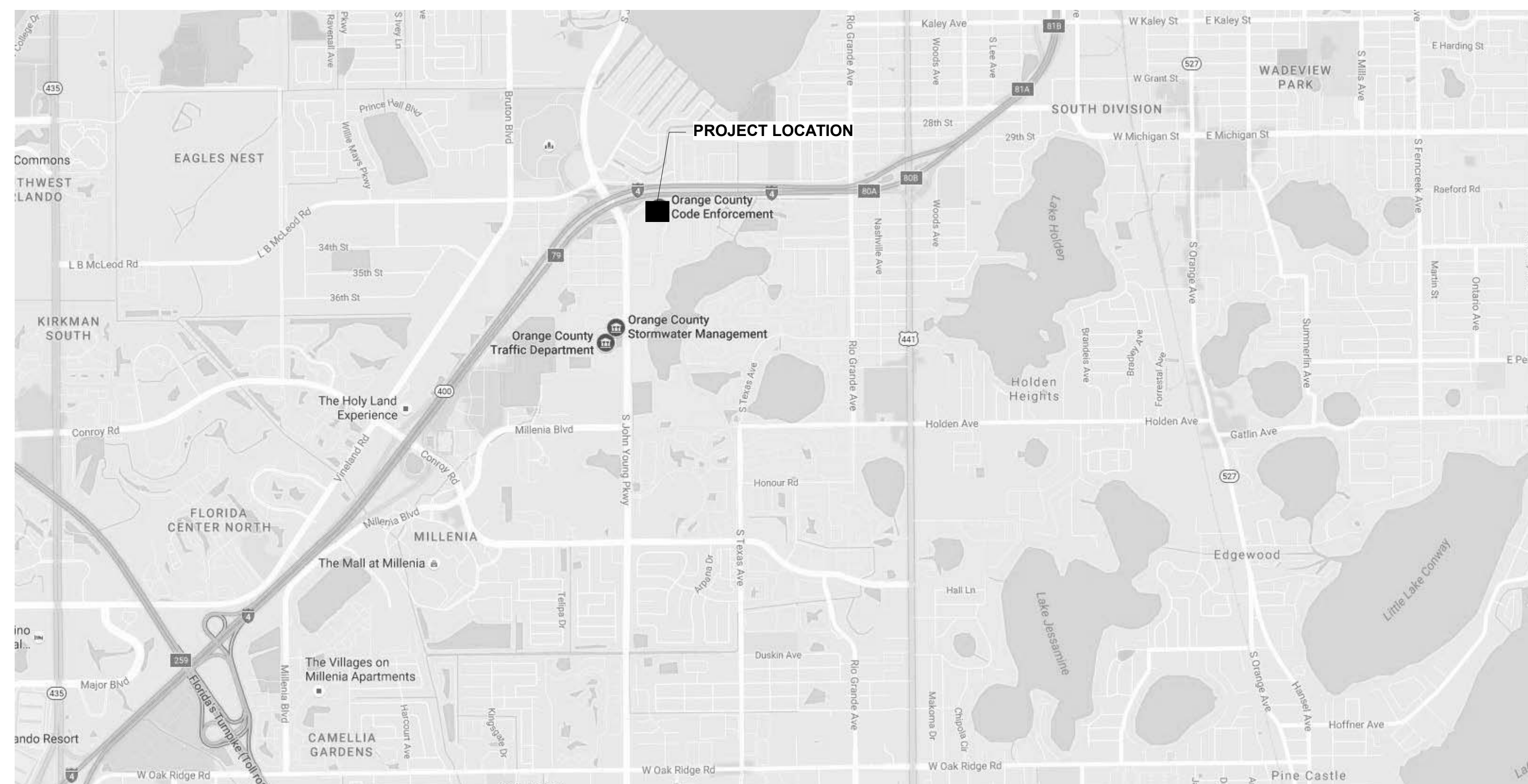
BID DOCUMENTS

May 30, 2018

Orange County Government Capital Projects Division

400 East South Street, Suite 500
Orlando, FL 32801

VICINITY MAP



BOARD OF COUNTY COMMISSIONERS

TERESA JACOBS
COUNTY MAYOR

BETSY VANDERLEY
District 1 Commissioner

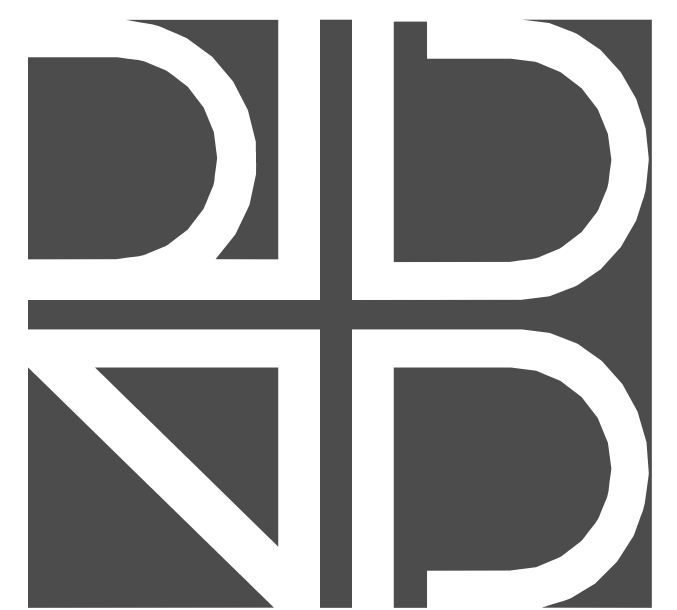
JENNIFER THOMPSON
District 4 Commissioner

BRYAN NELSON
District 2 Commissioner

EMILY BONILLA
District 5 Commissioner

PETE CLARKE
District 3 Commissioner

VICTORIA P. SIPLIN
District 6 Commissioner



rhodes + brito
ARCHITECTS
AA0002809

NOT FOR CONSTRUCTION

PROJECT DESIGN TEAM

DATE SUBMISSION / REVISION NO.

ARCHITECTURE

RHODES+BRITO ARCHITECTS, INC
605 EAST ROBINSON ST, SUITE 750
ORLANDO, FL 32801
PH: (407) 848-7288
CONTACT: AUDREY CAVADAS, ASSOC. AIA

FIRE PROTECTION

C&S COMPANIES
605 EAST ROBINSON ST
ORLANDO, FL 32801
PH: (407) 422.1118
CONTACT: MATTHEW MCQUINN, PE, CEM, LEED AP

PLUMBING

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MECHANICAL

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ELECTRICAL

C&S COMPANIES
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TECHNOLOGY

TECHNOLOGY RESEARCH & CONSULTING
437 GASTON FOSTER ROAD
ORLANDO, FL 32807
PH: (407) 273.6004
CONTACT: LARRY J. TROBROUGH, RCDD

DIMENSIONING

- WHEN A ROOM/BUILDING/OBJECT CENTERLINE IS INDICATED, ONLY ONE SIDE OF ELEMENT MAY BE DIMENSIONED
- DOOR LOCATION
DOORS ARE LOCATED BY ONE OF THE FOLLOWING:
A. ONE JAMB FACE LOCATED BY A PARTITION AT RIGHT ANGLE.
- PARTITION FINISH FACE ON COLUMN OR GRID LINE WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.
- PARTITIONS WITH FINISH FACE FLUSH WITH FINISH FACE OF COLUMN WILL NOT BE DRAWN ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.
- PARTITIONS CENTERED ON COLUMNS OR GRID LINES WILL NOT BE DIMENSIONED ON SMALL SCALE PLANS BUT WILL BE DRAWN ACCORDINGLY ON LARGER SCALE DRAWINGS.
- PARTITIONS ARE DIMENSIONED TO FACE OF STUDS, FACE OF CMU AND FACE OF INDICATED OTHERWISE
- DIMENSIONS ARE INDICATED ON DRAWINGS, DO NOT SCALE DRAWINGS

DRAWING SYMBOL LEGEND

DRAWING SHEET NUMBERS

DISCIPLINE: C - Civil, S - Structural, A - Architectural, M - HVAC, P - Plumbing, E - Electrical, L - Landscape

CATEGORY, SUBCATEGORY, SHEET NUMBER, ITEM

ROOM SPACE IDENTIFICATION NOTATION

ROOM NAME, ROOM NUMBER, BUILDING AREA

ELEVATION REFERENCE, TARGET ELEVATION, FIN FLOOR, TARGET DESCRIPTION

SECTION ORIENTATION, SECTION NUMBER, DRAWING ON WHICH SECTION OCCURS

ELEVATION ORIENTATION, ELEVATION NUMBER, DRAWING ON WHICH ELEVATION OCCURS

REVISION NUMBER, REVISION AREA

DETAIL NUMBER, DETAIL REFERENCE

PROJECT NORTH ARROW, TRUE NORTH ARROW

SPOT ELEVATION REFERENCE, TARGET ELEVATION

ACCESSORY IDENTIFICATION, ACCESSORY TYPE (REFER TO ACCESSORY SCHEDULE)

DOOR NUMBER, DOOR NUMBER (SEE DOOR SCHEDULE)

KEYNOTE REFERENCE, REFERENCE NUMBER

WINDOW TYPE, WINDOW DESIGNATION (REFER TO WINDOW SCHEDULE)

PARTITION TYPE IDENTIFICATION, PARTITION TYPE (REFER TO PARTITION TYPE DETAILS)

REVISION IDENTIFICATION, REVISION NUMBER (REFER TO TITLE BLOCK)

SPACE IDENTIFICATION, SPACE NAME, SPACE NUMBER, NET ROOM AREA (SF)

REVISION SYMBOLS

COLUMN IDENTIFICATION, COLUMN CENTERLINE

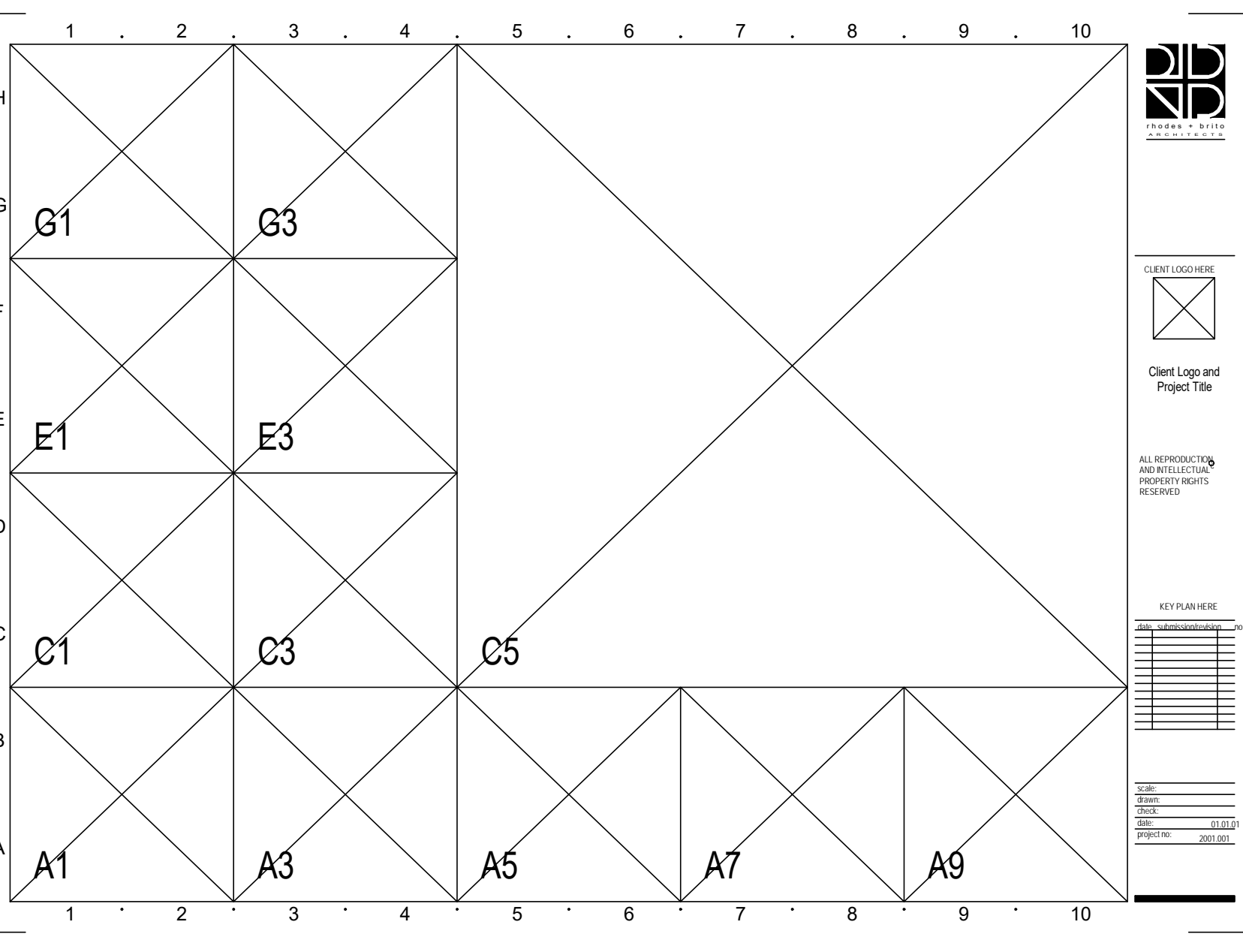
MULTIPLE INTERIOR ELEVATION REFERENCE, ELEVATION ORIENTATION ON PLANS, MULTIPLE ELEVATION NUMBER, DRAWING ON WHICH ELEVATION OCCURS

GRAPHIC SCALE 0 8 20 INDICATES FEET

MATERIALS LEGEND

EARTH, CONCRETE, FINISH LUMBER, PLYWOOD, STEEL, BATT INSULATION, DISCONTINUOUS ROUGH LUMBER, CONTINUOUS ROUGH LUMBER, CONCRETE MASONRY UNITS, RIGID INSULATION, GYPSUM BOARD / GROUT FILL, POROUS FILL

DRAWING FORMAT



EACH SHEET IS DIVIDED INTO A GRID. AN ALPHA-NUMERIC GRID COORDINATE SYSTEM IS USED TO ORGANIZE THE DRAWING TITLES. DRAWING TITLES ARE NUMBERED ACCORDING TO ITS LOCATION ON THE GRID. THE LOWER LEFT HAND CORNER GRID OF THE DRAWING IS USED AS THE IDENTIFICATION NUMBER (SEE DIAGRAM).

DRAWING INDEX

GENERAL

REV. NO.	SHEET NAME
G000	COVER SHEET
G001	GENERAL INFORMATION
G011	EXISTING FLOOR PLAN LEVEL 01
G012	EXISTING FLOOR PLAN LEVEL 02
G015	PHASING PLAN
G040	PARTITION TYPES
G041	CEILING TYPES AND UL DETAILS
G202	LIFE SAFETY PLAN LEVEL 02

Total Sheets: 8

ARCHITECTURAL

AD101	DEMOLITION PLAN AND RCP DEMO PLAN LEVEL 01
AD202	DEMOLITION PLAN LEVEL 02
AD222	REFLECTED CEILING DEMOLITION PLAN LEVEL 02
AD230	DEMOLITION DETAILS
A101	FLOOR AND REFLECTED CEILING PLANS LEVEL 01
A202	FLOOR PLAN LEVEL 02
A222	REFLECTED CEILING PLAN LEVEL 02
A401	RESTROOMS ENLARGED PLANS AND ELEVATIONS
A402	RESTROOMS ELEVATIONS AND DETAILS
A501	WALL AND CEILING DETAILS
A541	WALL, FLOOR AND RESTROOMS DETAILS
A600	FINISH FLOOR PLAN
A601	FINISH SCHEDULE AND DETAILS
A710	DOOR SCHEDULE AND DETAILS
A800	MILLWORK ELEVATIONS AND DETAILS
A900	EQUIPMENT PLAN

Total Sheets: 16

FIRE PROTECTION

XFF-201	SECOND FLOOR SPRINKLER DEMOLITION
FP-201	SECOND FLOOR SPRINKLER LAYOUT

Total Sheets: 2

PLUMBING

P-100	GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
XP-201	SECOND FLOOR PLUMBING DEMOLITION
P-201	SECOND FLOOR PLUMBING
P-401	ENLARGED RESTROOM PLUMBING

Total Sheets: 4

MECHANICAL

M-100	LEGEND, ABBREVIATIONS AND GENERAL NOTES
M-101	FIRST FLOOR HVAC NEW WORK PLAN
M-102	SECOND FLOOR HVAC NEW WORK PLAN
M-103	HVAC WORK PLAN-CHILLER YARD
M-501	DETAIL SHEET
M-601	SCHEDULES
M-701	HVAC CONTROLS
MD-101	FIRST FLOOR HVAC NEW WORK PLAN
MD-102	SECOND FLOOR HVAC DEMO PLAN

Total Sheets: 9

ELECTRICAL

E-100	LEGEND, ABBREVIATIONS, AND GENERAL NOTES
E-201	SECOND FLOOR LIGHTING PLAN
E-221	SECOND FLOOR POWER PLAN - NEW WORK
E-222	FIRST FLOOR POWER PLAN
E-401	PANEL SCHEDULES
E-402	PANEL SCHEDULES
E-501	ONE-LINE DIAGRAM AND DETAILS
ED-100	SECOND FLOOR POWER PLAN - DEMO

Total Sheets: 8

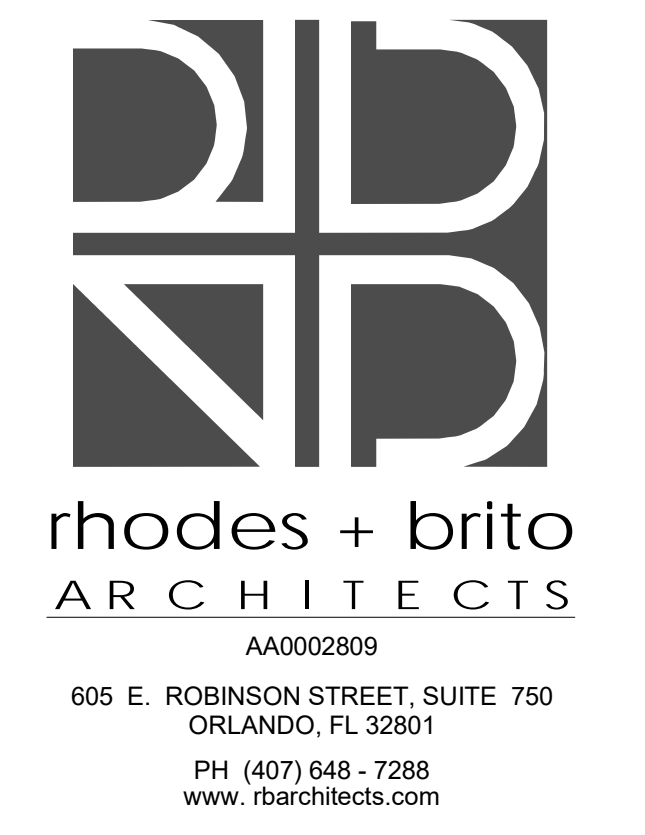
TECHNOLOGY

T001	SYMBOL LEGEND AND SHEET INDEX - SYSTEMS
TD202	DEMOLITION PLAN LEVEL 02 -SYSTEMS
T201	FLOOR PLAN LEVEL 01 -SYSTEMS
T202	FLOOR PLAN LEVEL 02
T601	ENLARGED PLAN SYSTEMS
T801	RISER DIAGRAM - FIRE ALARM
T901	DETAILS
T902	DETAILS

Grand total: 8

LIST OF ABBREVIATIONS

AB	ANCHOR BOLT	CAB	CABINET	DBL	DOUBLE	FAS	FIRE ALARM	HB	HOSE BIBB	LAB	LABORATORY	N	NORTH	QT	QUARRY TILE	S	SOUTH	UC	UNDERCUT
ABV	ABOVE	CAT	CATEGORY	DEMO	DEMOLISH	FASTEN	FASTEN, FASTENER	HBD	HARDBOARD	LAM	LAMINATE	NA	NOT APPLICABLE	QTR	QUARTER	SC	SCHEDULE	UL	UNDERWRITERS LABORATORY
AC	AIR CONDITIONING	CB	CAST BASIN	DEPT	DEPARTMENT	FBO	FURNISHED BY OTHERS	HD	HOLLOW CORE	LAV	LAVATORY	NGVD	NATIONAL GEODETIC	RA	RISER	SCD	SCHEDULE	UNF	UNFINISHED
ACC	ACOUSTICAL	C/C	CENTER TO CENTER	DEPT	DEPARTMENT	FBO	FURNISHED BY OTHERS	HD	HOLLOW CORE	LAV	LAVATORY	NGVD	NATIONAL GEODETIC	RA	RISER	SCD	SCHEDULE	UNF	UNFINISHED
ACPL	ACCESS	CFT	CUBIC FOOT	DF	DEPRESSED	FCO	FLOOR CLEAN OUT	HDR	HEADER	LB	LAG BOLT	NO	NOT IN CONTRACT	R	REF	SECT	SECTION	UR	UNLESS NOTED OTHERWISE
AD	ADDITIONAL	CHAM	CHAMFER	DM	DIAGONAL	FE	FIRE EXTINGUISHER	HM	HOLLOW METAL	LF	LEFT HAND	NOM	NOMINAL	REF	REFERENCE	SFL	SHEET GLASS	VAT	VINYL ASBESTOS TILE
ADD	ADDENDUM	CHT	CEILING HEIGHT	DM	DIAGONAL	FE	FIRE EXTINGUISHER	HM	HOLLOW METAL	LF	LEFT HAND	NOM	NOMINAL	REF	REFERENCE	SFL	SHEET GLASS	VAT	VINYL ASBESTOS TILE
ADD	ADDITIONAL	CHT	CEILING HEIGHT	DM	DIAGONAL	FE	FIRE EXTINGUISHER	HM	HOLLOW METAL	LF	LEFT HAND	NOM	NOMINAL	REF	REFERENCE	SFL	SHEET GLASS	VAT	VINYL ASBESTOS TILE
ADH	ADHESIVE	CIP	CAST-IN-PLACE	DISP	DISPENSER	DISP	DISPENSER	HP	HIGH POINT	LS	LIVE LOAD	LVL	LAMINATED VENEER LUMBER	OC	ON CENTER	OPC	OWNER PROVIDED	OPC	OWNER PROVIDED
ADJ	ADJUSTABLE	CJ	CONTROL JOINT	DIV DR	DIVISION DOOR	DIV DR	DIVISION DOOR	HT	HEAD HEIGHT	LD	LINE LOAD	LVL	LAMINATED VENEER LUMBER	OC	ON CENTER	OPC	OWNER PROVIDED	OPC	OWNER PROVIDED
ADJ	ADJUSTABLE	CJ	CONTROL JOINT	DIV DR	DIVISION DOOR	DIV DR	DIVISION DOOR	HT	HEAD HEIGHT	LD	LINE LOAD	LVL	LAMINATED VENEER LUMBER	OC	ON CENTER	OPC	OWNER PROVIDED	OPC	OWNER PROVIDED
AEE	ARCHITECT/ENGINEER	CK	CAULK	DR	DAMP PROOFING	FIN	FINISH(ED)	HT	HEAD HEIGHT	LD	LINE LOAD	LVL	LAMINATED VENEER LUMBER	OC	ON CENTER	OPC	OWNER PROVIDED	OPC	OWNER PROVIDED
AFF	ABOVE FINISHED FLOOR	CLS	CLOSE	DR	DOOR	DRB	DRAIN BOARD	HTG	HEATING	HDW	HARDWOOD	HWH	HOT WATER	IBC	INSULATED BY CONTRACTOR	INCL	INCLUDE(D)(ING)	INSUL	INSULATION
AHU	AIR HANDLING UNIT	CLOS	CLEARANCE	DS	DOWN SPOUT	DTL	DETAIL	DWG	DRAWING	DWR	DRAWER	E	EAST	EA	EACH	EXP	EXPANDED(EXPANSION)	EXT	EXTERIOR
ALT	ALTERNATE	CLS	CLOSE	DR	DOOR	DRB	DRAIN BOARD	HTG	HEATING	HDW	HARDWOOD	HWH	HOT WATER	IBC	INSULATED BY CONTRACTOR	INCL	INCLUDE(D)(ING)	INSUL	INSULATION
ALUM	ALUMINUM	CMU	CONCRETE MASONRY UNIT	DWL	DRAWING	DWR	DRAWER	E	EAST	EA	EACH	EXP	EXPANDED(EXPANSION)	EXT	EXTERIOR	GA	GALVANIZED	GRAB	GRAB BAR
ANC	ANCHOR(AGE)	CNT	CENTER	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR
ANGD	ANGLED	CNT	CENTER	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR
AP	ACCESS PANEL	CO	CLEAN OUT	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR
APROX	APPROXIMATE	CONC	CONCRETE	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION
ARCH	ARCHITECTURAL	CONC	CONCRETE	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION
ASB	ASBESTOS	CONN	CONNECTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION	CONSTR	CONSTRUCTION
ASPH	ASPHALT	CONNT	CONTINUOUS	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR
AUTO	AUTOMATIC	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR
AV	AUDIO VISUAL	CORR	CORRUGATED	CP	CENTER POINT	CPC	CONTRACTOR PROVIDED	EJ	EXPANSION JOINT	ELEV	ELEVATOR	EMER	EMERGENCY	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR
BD	BOARD	CP	CENTER POINT	CPC	CONTRACTOR PROVIDED	EJ	EXPANSION JOINT	ELEV	ELEVATOR	EMER	EMERGENCY	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR
BEL	BELOW	CR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR	CONTR	CONTRACTOR
BET	BETWEEN	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR
BLDG	BUILDING	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR
BLK(G)	BLOCKING	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR
BM	BENCH MARK	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR
BO	BOTTOM OF	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR
BTM	BOTTOM	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR
BRG	BEARING	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR
BRG PL	BEARING PLATE	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR
BRK	BRICK	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR
BS	BOTH SIDES	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR
BSL	BUILDING SETBACK LINE	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR
BSMT	BASEMENT	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR
BSM	BUILT UP ROOFING	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR
BVL	BEVELED	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR
BWL	BOTHWAYS	CRS	COURSE(S)	ENCL	ENCLOSURE(URE)	ENGR	ENGINEER	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR	ENR



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Orange County Government

Capital Projects Division

Orange County
Code Enforcement
Office Renovations

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Maximiano Brito, RA, AIA
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BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION / REVISION	NO.

GENERAL INFORMATION

SCALE: AS INDICATED

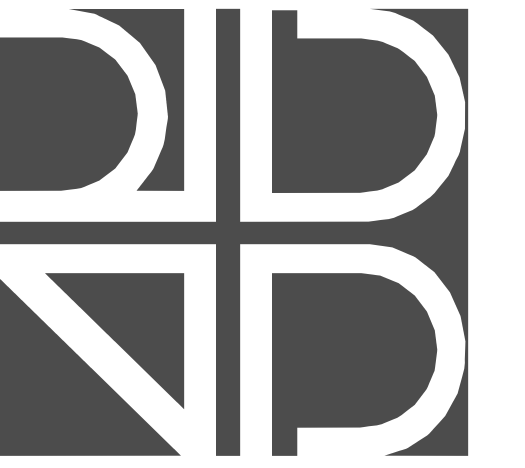
DRAWN BY: MA/AC

CHECK BY: AC/MB

DATE: May 30, 2018

PROJECT NUMBER: 15012-0020

G001



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Consultants



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Capital Projects Division

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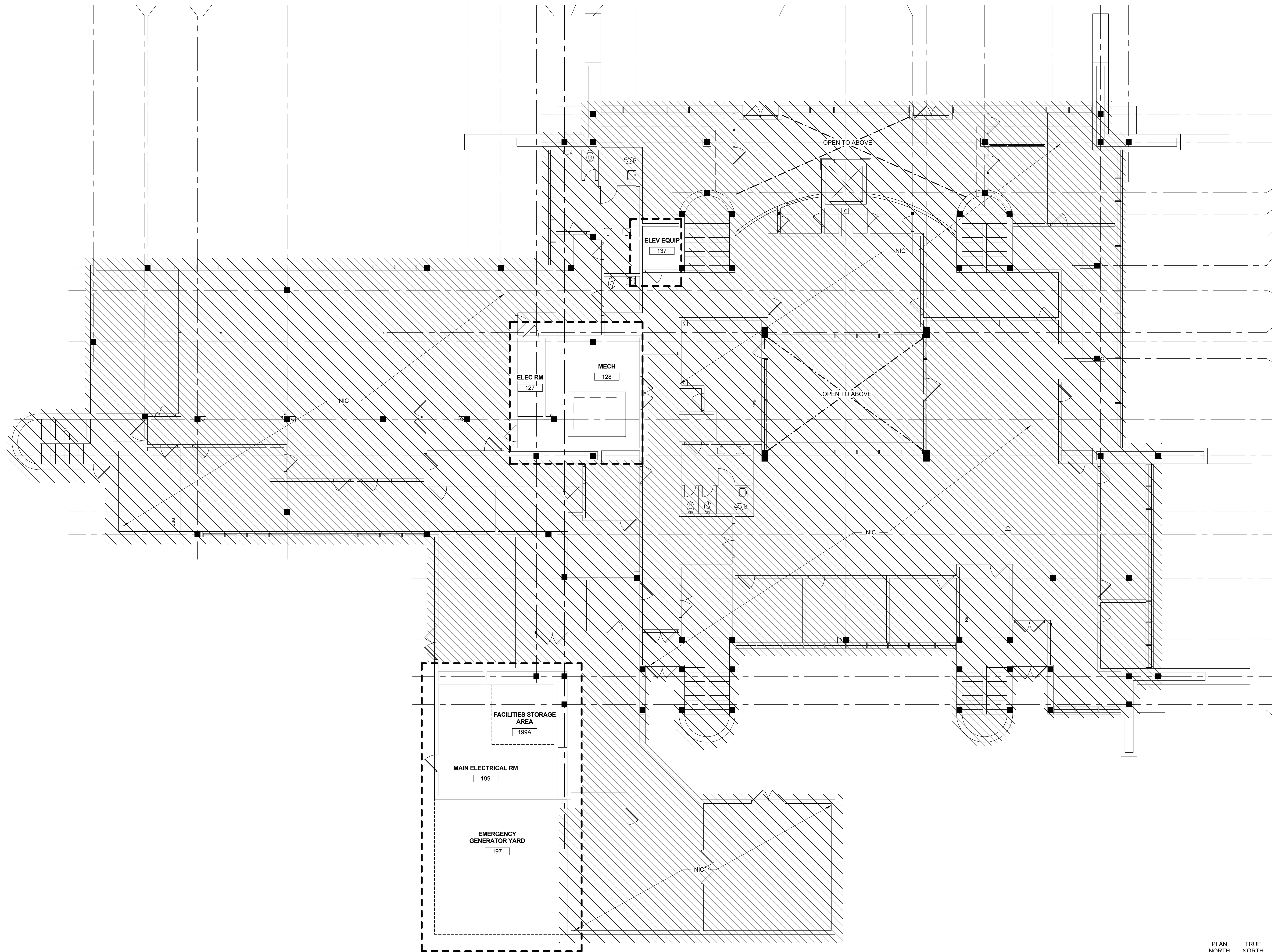
BID DOCUMENTS
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DATE	SUBMISSION / REVISION	NO.

EXISTING FLOOR PLAN
LEVEL 01

SCALE: AS INDICATED
 DRAWN BY: MA/AC
 CHECK BY: AC/MB
 DATE: May 30, 2018
 PROJECT NUMBER: 15012-0020

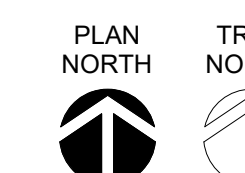
G011



A7
G011

EXISTING FLOOR PLAN LEVEL 01

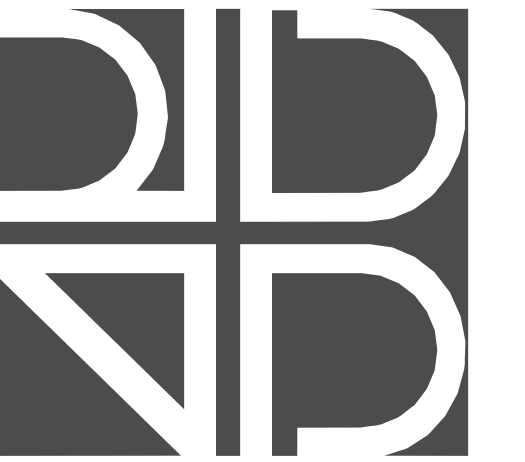
SCALE: 1/8" = 1'-0"



1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

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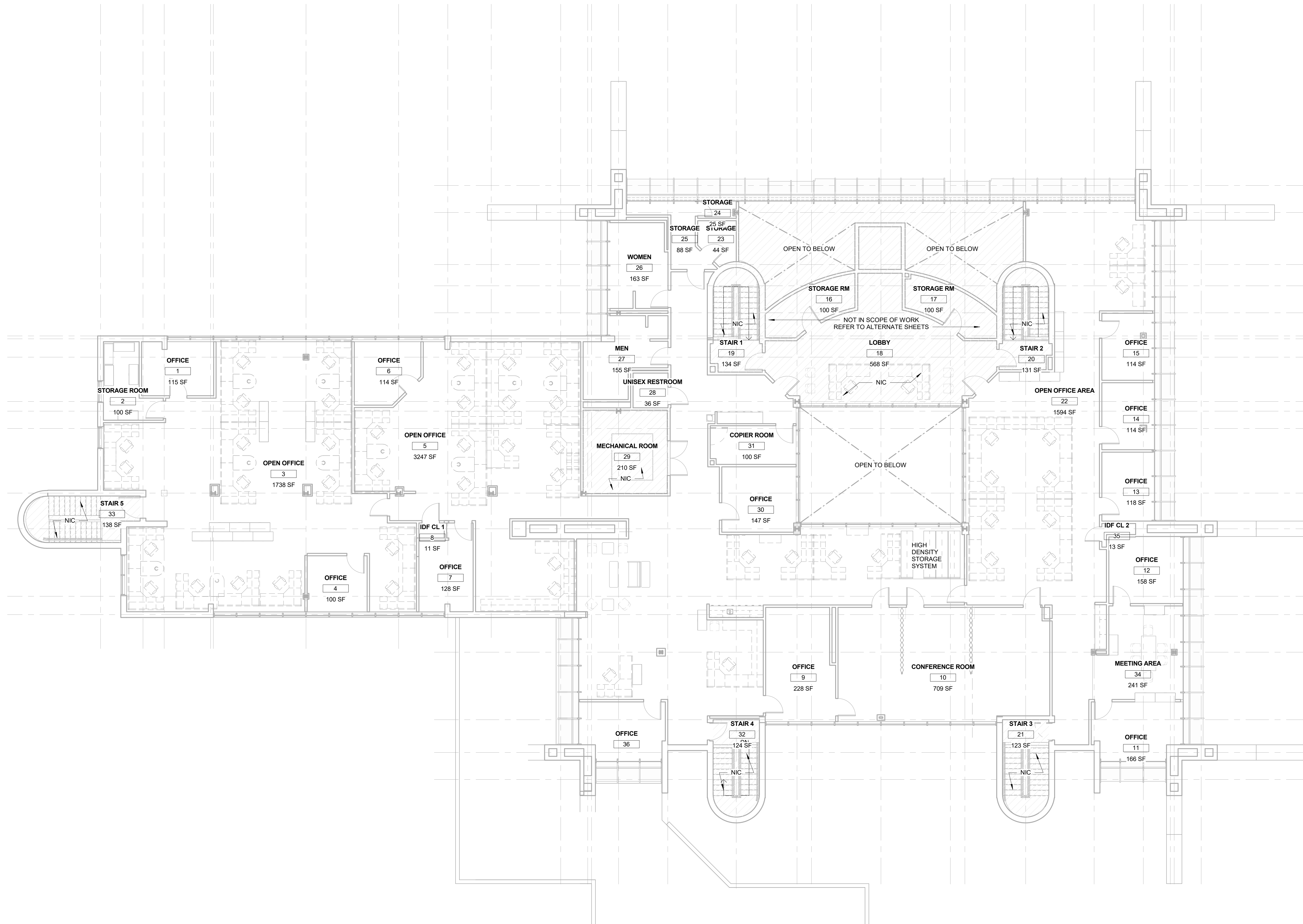
BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION / REVISION	NO.

**EXISTING FLOOR PLAN
LEVEL 02**

SCALE: AS INDICATED
 DRAWN BY: MA/AC
 CHECK BY: AC/MB
 DATE: May 30, 2018
 PROJECT NUMBER: 15012-0020

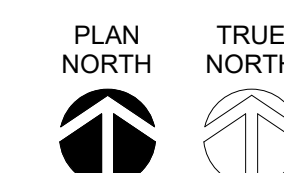
G012

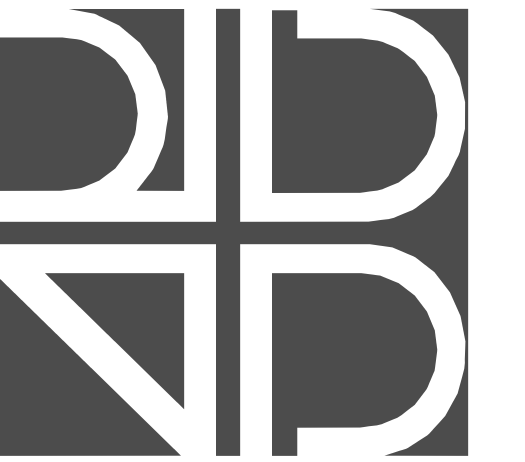


EXISTING FLOOR PLAN LEVEL 02
REFERENCE ONLY

A7
G012

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





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PHASING PLAN

SCALE: AS INDICATED

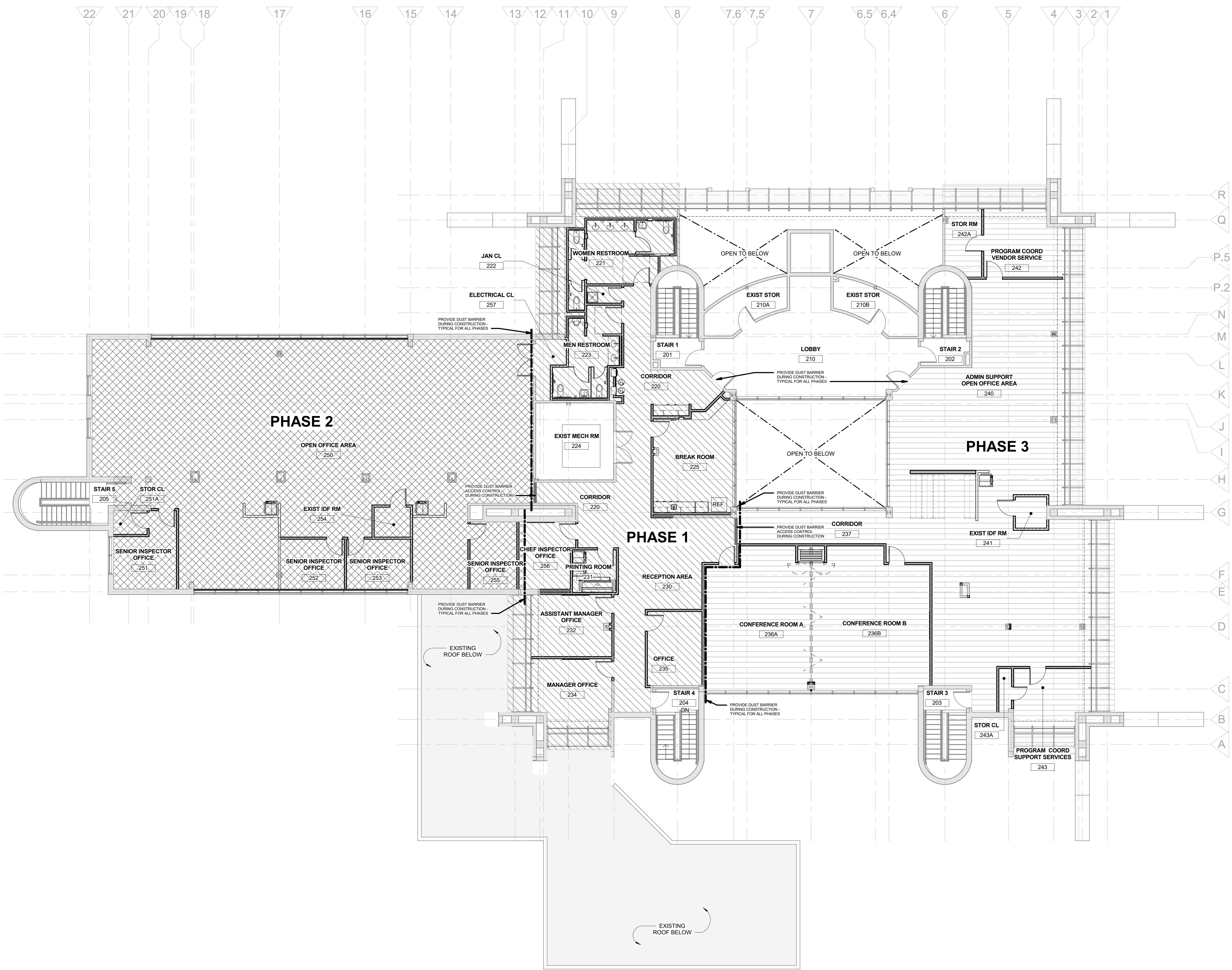
DRAWN BY: AC

CHECK BY: AC/MB

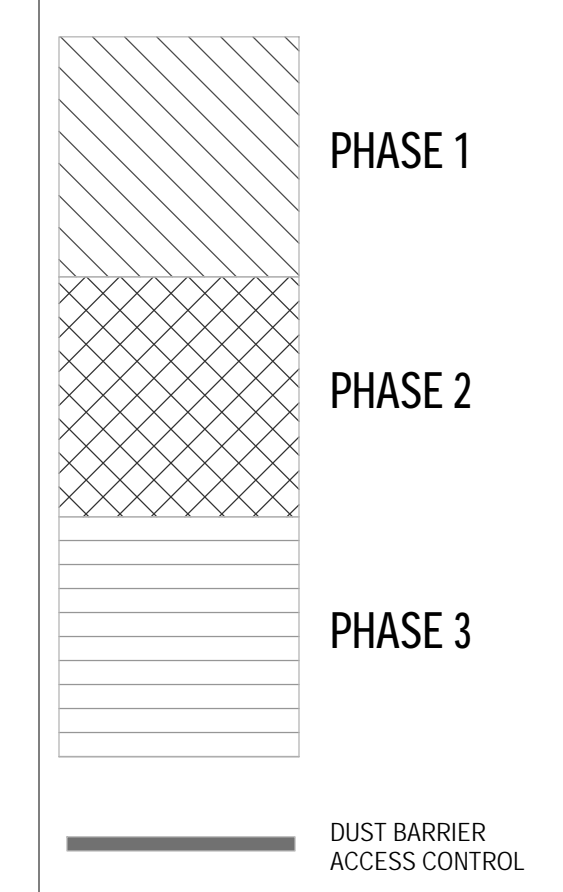
DATE: May 30, 2018

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G015



CONSTRUCTION PHASING PLAN LEGEND



CONSTRUCTION PHASING PLAN GENERAL NOTE

1. ALL CONSTRUCTION PHASES TO BE COORDINATED WITH AND APPROVED BY OWNER PRIOR TO BEGINNING OF DEMOLITION AND CONSTRUCTION.
2. THE BUILDING WILL BE FULLY IN USE AND OPERATIONAL DURING CONSTRUCTION.
3. PROVIDE DUST BARRIER ACCESS CONTROL ON EVERY CONSTRUCTION PHASE OF THE PROJECT.
4. THE DUST BARRIER WILL NEED TO FULLY ISOLATE THE DUST ELEMENTS FROM BUILDING OPERATIONS.

PARTITION TYPES (KEY I + KEY II + KEY III + KEY IV + KEY V) =

KEY IV

KEY V

◆ KI+II+III ◆

ADDITIONAL NOTES

EXAMPLE WALL TYPE (S3U-A-S) =

3-5/8" FULL HEIGHT, NOT RATED, INSULATED METAL STUD WALL

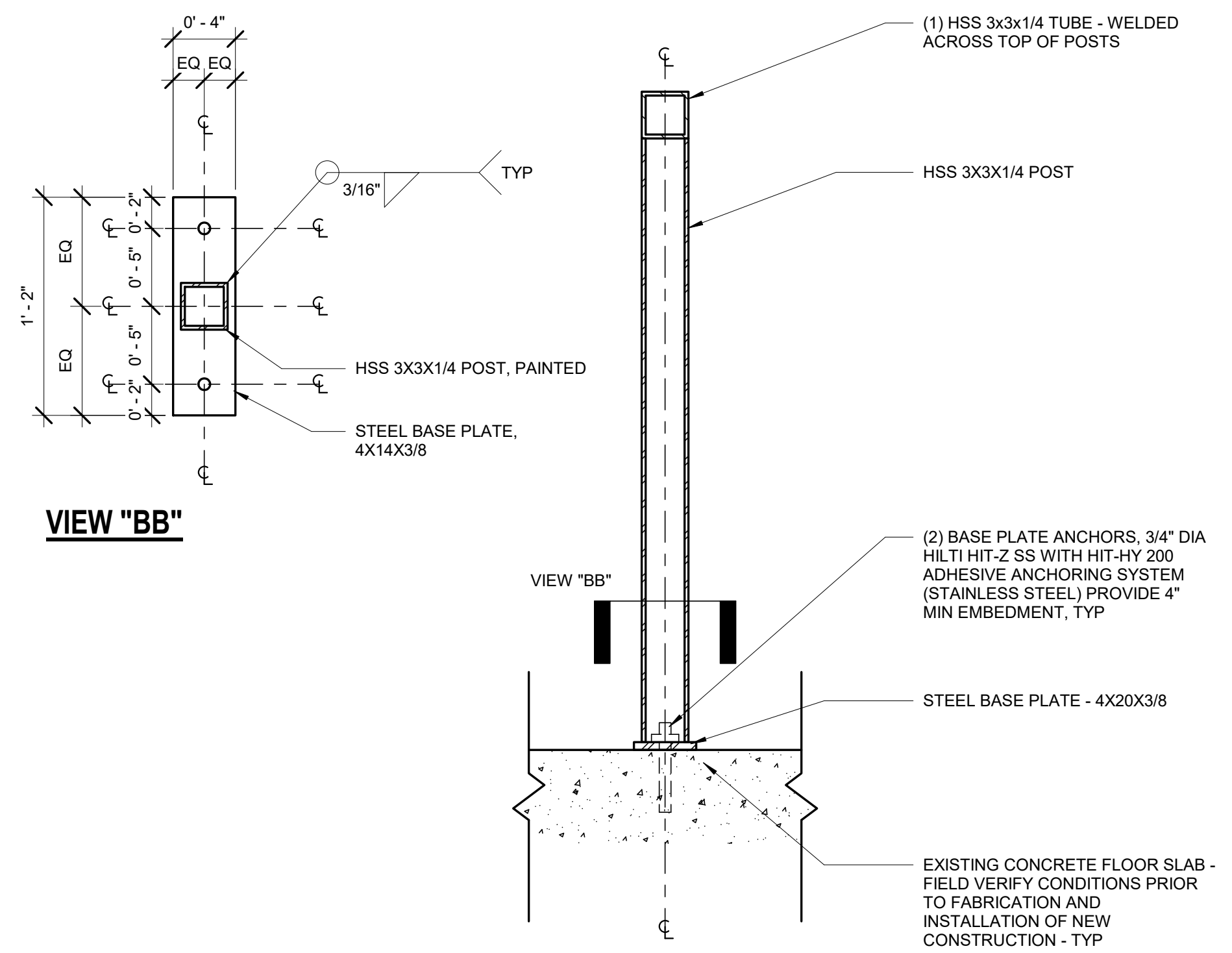
◆ A S ◆

◆ S3U ◆

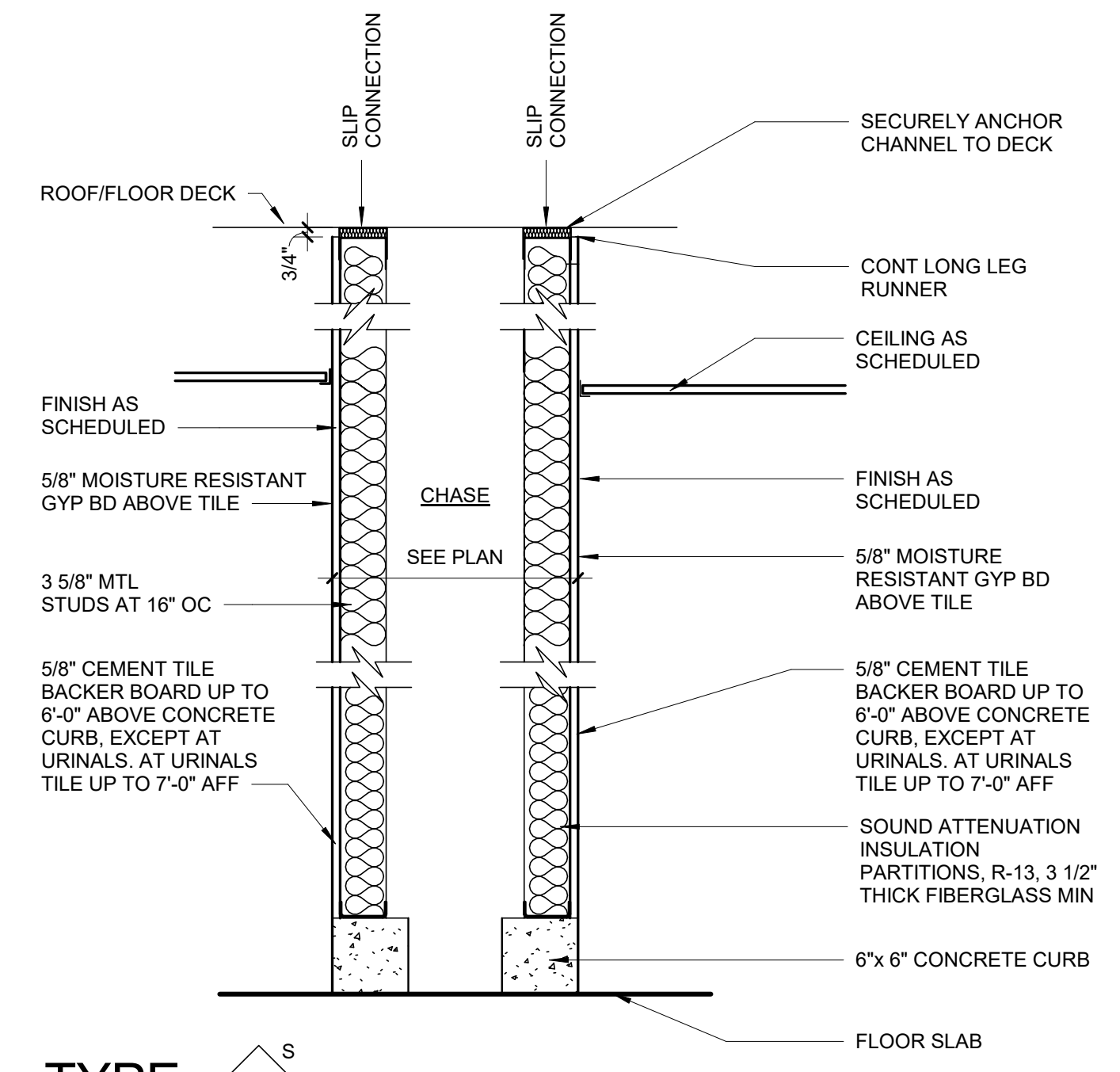
KEY I (DIAMOND) MATERIAL DESCRIPTION	KEY II (DIAMOND) MATERIAL WIDTH	KEY III (DIAMOND) WALL MODIFIER	KEY IV (FIRST QUAD) PRIMARY WALL MODIFIER	KEY V (SECOND QUAD) SECONDARY WALL MODIFIER
<ul style="list-style-type: none"> MS METAL STUDS SH SHAFT WALLS M MASONRY C CONCRETE PK METAL STUD WALL STACKED OVER MASONRY PL PLUMBING CHASE WALL BOTH STUDS TO DECK PB PLUMBING CHASE WALL 1 STUD TO DECK WS WOOD STUDS Z COMBINATION E EXISTING 	<p>FURRING SIZES</p> <ul style="list-style-type: none"> 0.5 1/2" FURRING OR CHANNELS 0.6 5/8" FURRING OR CHANNELS 0.7 3/4" FURRING OR CHANNELS 0.8 7/8" FURRING OR CHANNELS <p>TYPICAL MATERIAL WIDTHS</p> <ul style="list-style-type: none"> 1 1-5/8" STUDS OR CHANNELS 2 2-1/2" STUDS OR 1-5/8" CMU 3 3-5/8" STUDS 4 4" STUDS OR 3-5/8" CMU 6 6" STUDS OR 5-5/8" CMU 8 8" STUDS OR 7-5/8" CMU 10 9-5/8" CMU 12 11-5/8" CMU <p>"C" CONCRETE MATERIAL WIDTHS</p> <p># DIMENSIONAL THICKNESS OF WALL</p>	<ul style="list-style-type: none"> R FIRE RATED R1 1 HR RATED R2 2 HR RATED K SMOKE PARTITION KB1 1 HR RATED SMOKE BARRIER KB2 2 HR RATED SMOKE BARRIER G NOT RATED FURRED WALL U NOT RATED 	<p>WALL HEIGHTS</p> <ul style="list-style-type: none"> A TO UNDERSIDE OF DECK B TO 6" ABOVE CEILING, UNO C TO UNDERSIDE OF CEILING D 4'-0" LOW WALL HEIGHT, SEE DETAIL A1G040 E INFILL EXISTING OPENING F METAL STUD WALL INFILL ABOVE EXISTING WALL AND 6" ABOVE CEILING H INFILL EXISTING EXTERIOR WALL BELOW WINDOW SILL 	<ul style="list-style-type: none"> S SOUND ATTENUATION INSULATION WITH STC 50 N RESILIENT CHANNELS WITH GYP BOARD AND SOUND INSULATION OF STC 55 L LEAD LINED GYP BOARD (W/ SOUND INSULATION) V VAPOR BARRIER M FOAM-IN-PLACE INSULATION H SAND FILLED T CEMENT TILE BACKER BOARD AT TILE LOCATIONS

ADDITIONAL NOTES

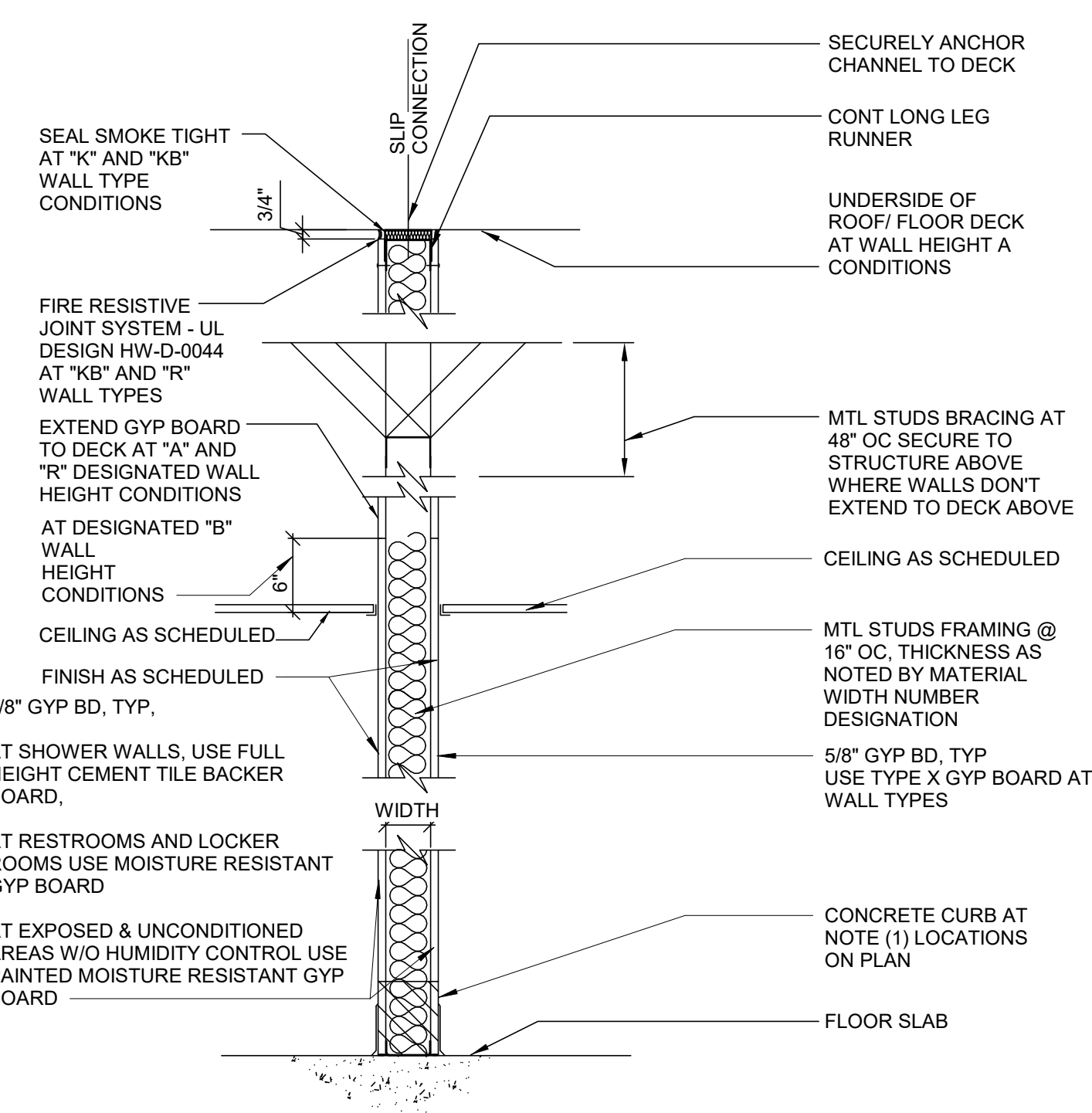
- 4" x 4" CONCRETE CURB AT BOTTOM OF WALL REFER TO DETAIL C5A501



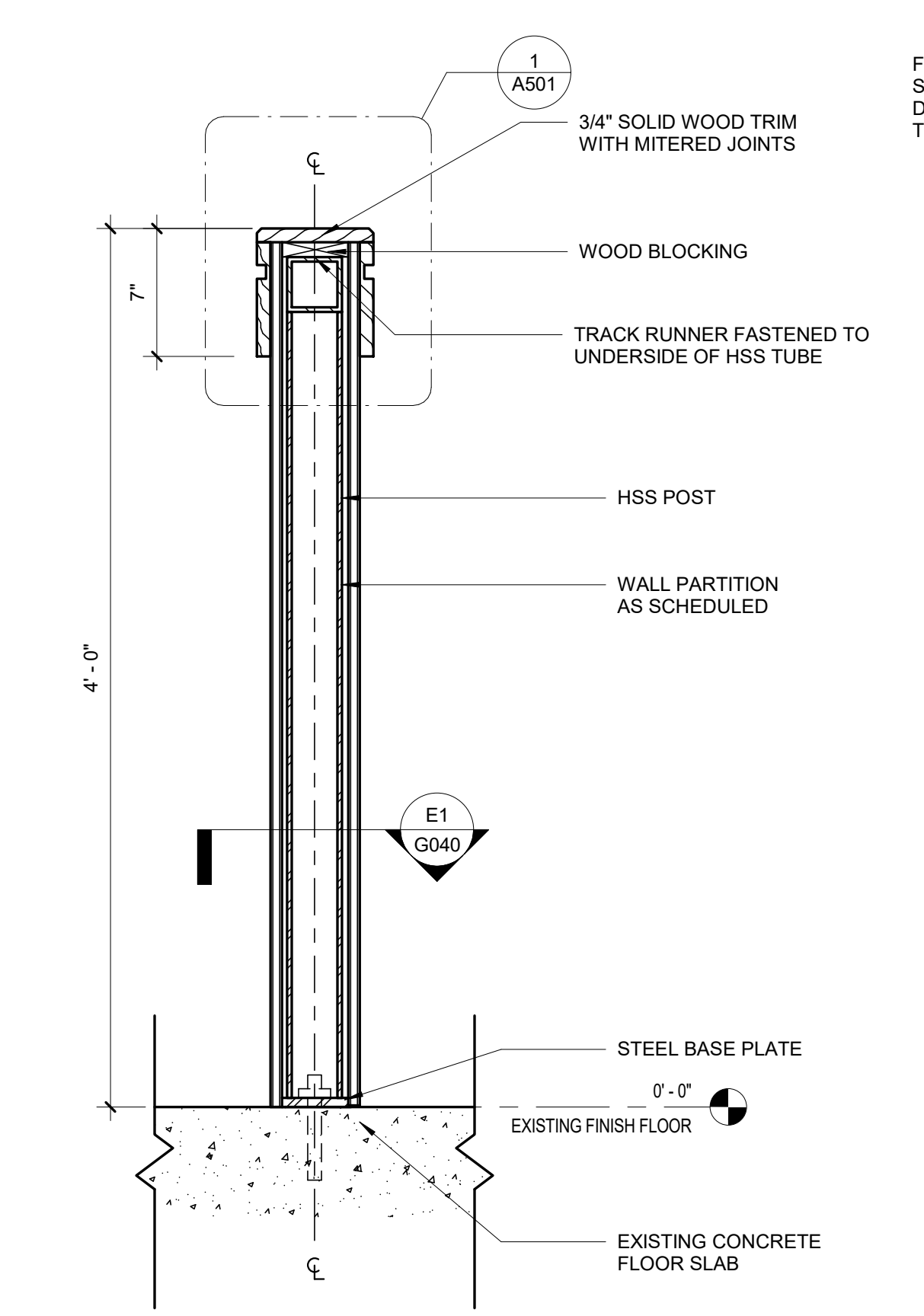
E1 G040 LOW WALL SUPPORT STRUCTURE
SCALE: 1 1/2" = 1'-0"



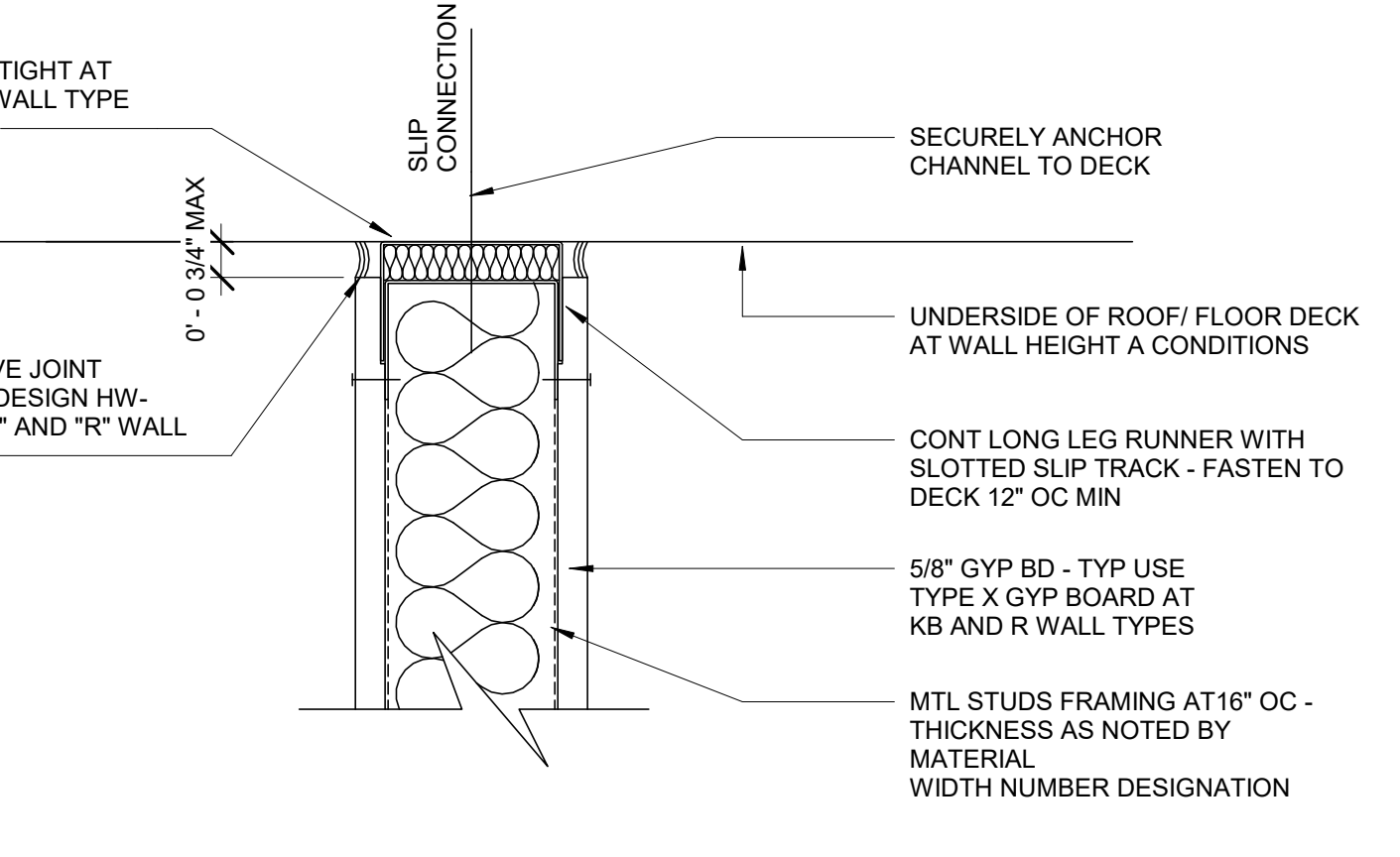
TYPE PA3 S
TYPE DESCRIPTION: PLUMBING PARTITION, BOTH SIDES SECURED, INSULATED
WIDTH: SEE PLAN
REF DESIGN: SEE PLAN



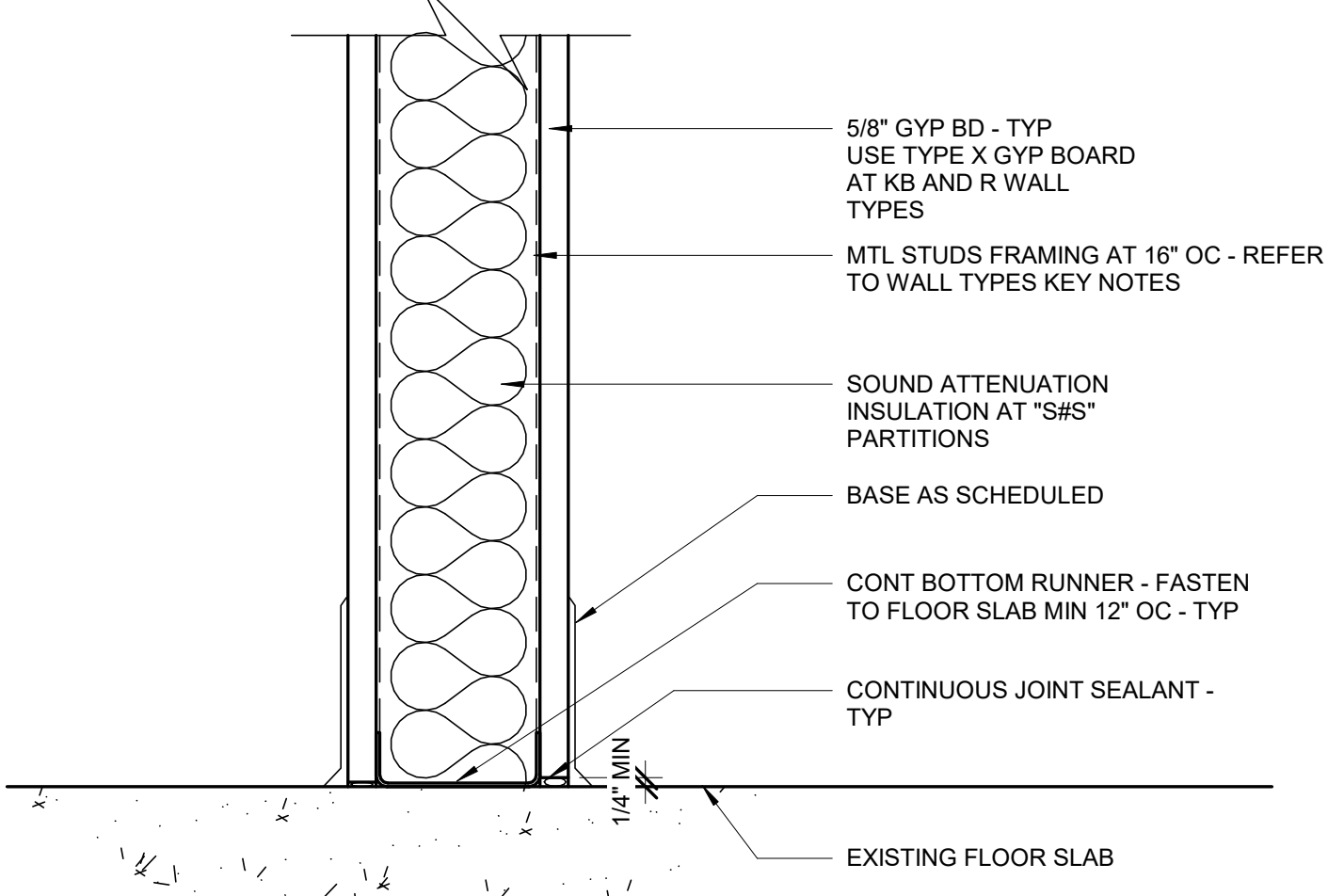
TYPE S3U S
TYPE DESCRIPTION: 3 5/8" MTL STUDS
WIDTH: 4 1/4", 4 7/8"
REF DESIGN: SEE PLAN



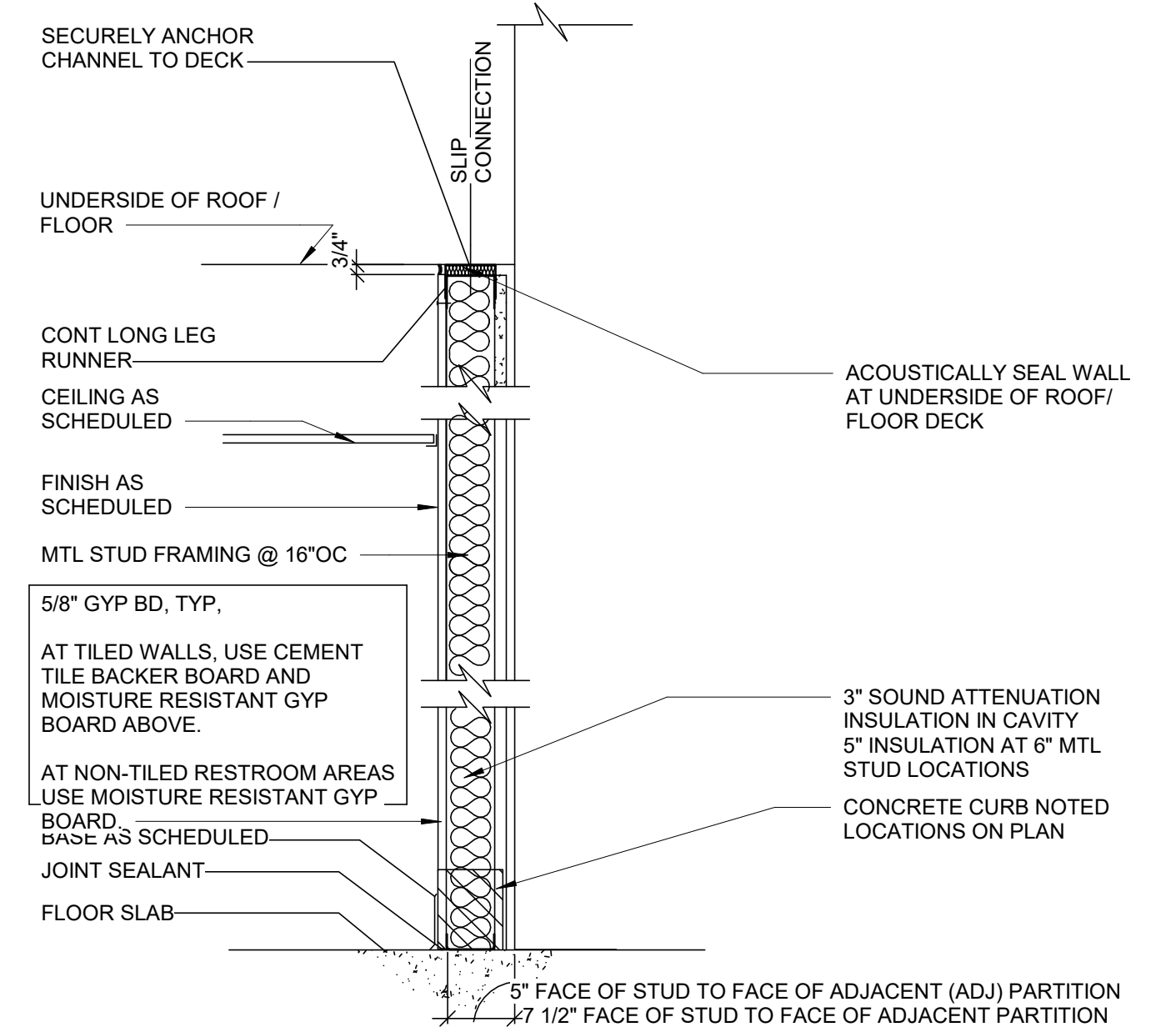
A1 G040 LOW WALL SECTION
SCALE: 1 1/2" = 1'-0"



C3 G040 CONNECTION DETAIL
SCALE: 3" = 1'-0"



A3 G040 CONNECTION DETAIL
SCALE: 3" = 1'-0"

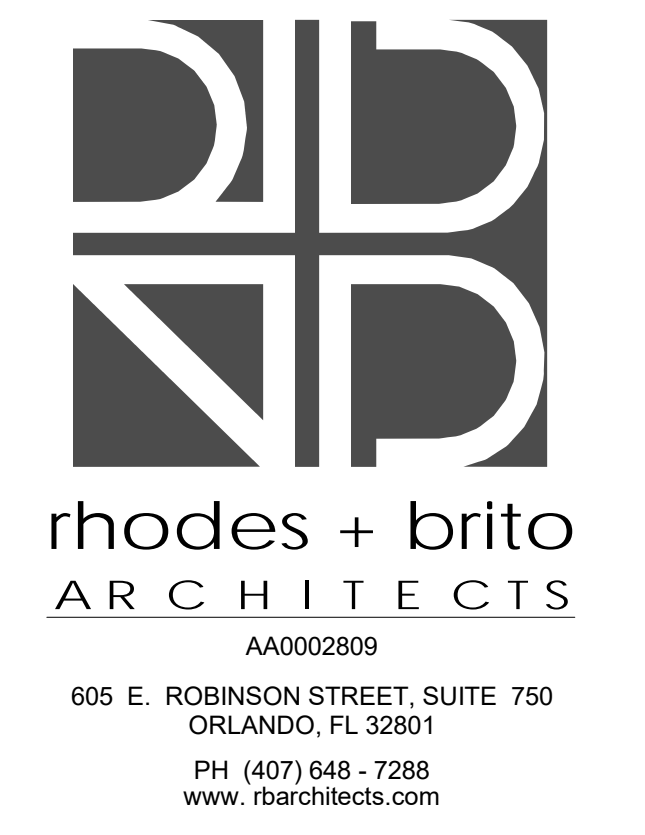


TYPE S3G S
TYPE DESCRIPTION: 3 5/8" MTL STUDS, NOT RATED
WIDTH: 4 1/4"
REF DESIGN: SEE PLAN

TYPE S6G S
TYPE DESCRIPTION: 6" MTL STUDS, NOT RATED
WIDTH: 6 5/8"
REF DESIGN: SEE PLAN

GENERAL PARTITION TYPE NOTE

- REFER TO LIFE SAFETY PLANS FOR LOCATION AND EXTENTS OF RATED WALLS.
- PARTITION FINISH LEVEL: LEVEL 4 FINISH FOR ALL WALLS.
- AT EXISTING WALLS, CONCEAL ALL CONDUIT AND DEVICES ADDED OR REPLACED AT THESE WALLS. REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS.
- PROVIDE THROUGH-PENETRATION FIRESTOP SYSTEMS AND THROUGH-PENETRATION FIRESTOP DEVICES, SEALANTS AND RELATED PRODUCTS FOR FIRE-RATED FLOOR AND WALL PENETRATIONS (AND SEALING TOP OF RATED WALLS TO DECK). THIS WORK ALSO INCLUDES FIRESTOPPING AT PENETRATIONS THROUGH ALL FIRE-RATED WALLS AND FLOORS. ALL RATED WALL PENETRATIONS SHALL MAINTAIN THE INTEGRITY OF THE WALL ASSEMBLY. PROVIDE FIRESTOP SEALANT BETWEEN CMU AND STUD WALL CONSTRUCTION AT ALL FIRE RATED/SMOKE TIGHT RATED WALLS.
- THE FOLLOWING STATEMENT SHALL BE STENCILED ON ALL FIRE WALLS, SMOKE BARRIERS AND PARTITIONS USING 3" HIGH LETTERING - COLOR, RED: "FIRE PARTITION - PROTECT ALL OPENINGS" (AT FIRE RATED WALLS), AND "SMOKE PARTITION - PROTECT ALL OPENINGS" (AT SMOKE PARTITIONS). PLACE STATEMENT WITHIN 15 FEET OF EACH END OF WALL AND AT INTERVALS NOT EXCEEDING 30 FEET MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION - PLACED ABOVE CEILING HEIGHT AND IN CONCEALED LOCATIONS.
- SEE INTERIOR ELEVATIONS AND REFLECTED CEILING PLANS FOR HEIGHTS, QUANTITY AND TYPE OF ALL FINISHES LOCATED ON PARTITIONS AND WALLS.
- GYP BOARD TO BE INSTALLED A MINIMUM OF 1/2" ABOVE THE FLOOR SLAB - TYPICAL.



Orange County Government
Capital Projects Division

Orange County
Code Enforcement
Office Renovations
2450 West 33rd Street,
Orlando, Florida 32839

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Maximiano Brito, RA, AIA
FL Reg. No. AR0015108

BID DOCUMENTS
NOT FOR CONSTRUCTION

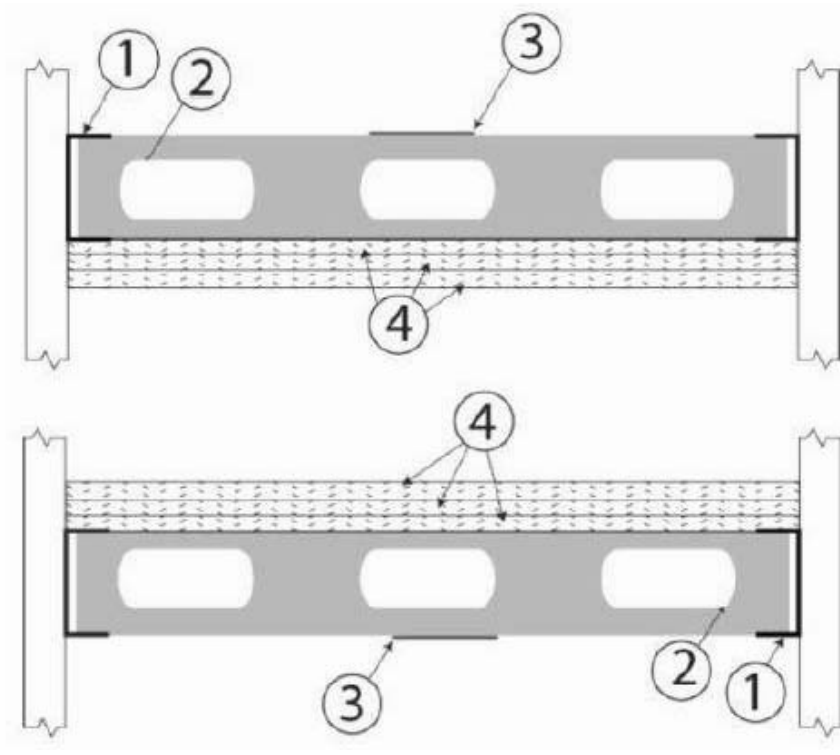
DATE	SUBMISSION / REVISION	NO.

PARTITION TYPES

SCALE: AS INDICATED
DRAWN BY: AC
CHECK BY: AC/MB
DATE: May 30, 2018
PROJECT NUMBER: 15012-0020

G040

UNRESTRAINED ASSEMBLY
RATING - 1 HR
ANSI/UL 263
DESIGN NO. I501



- Perimeter Channels** — Used to support steel studs at both ends of wall structure. Min. 6 in. deep with min. 2 in. legs and formed from min. No. 20 MSG galv. steel (0.0329 in. thick bare metal thickness). Perimeter channels attached to wall structure with fasteners spaced not greater than 24 in. O.C. at both the top and bottom of the vertical leg. Maximum clear span from vertical leg to vertical leg of the perimeter channels is 8 ft., 2-1/4 in.
- Steel Studs** — Min. 6 in. wide with min. 1-5/8 in. legs containing folded back flanges and formed from min. No. 20 MSG galv. steel (0.0329 in. thick bare metal thickness). Studs to be cut 1/2 in. to 3/4 in. less than the clear span between the vertical legs of the perimeter channels. Studs spaced a max. 16 in. O.C. At each end of the stud, the un-faced side shall be secured to the perimeter channel with one 1/2 in. long pan-head steel screw. Studs are used at each end of the horizontal barrier to terminate the assembly at the adjoining wall. These end studs shall be secured to the adjoining wall in the same manner as the perimeter channels (Item 1).
- Steel Strap** — Min 4 in. wide formed from min. No. 20 MSG galv. Steel (0.0329 in. thick bare metal thickness). Secured perpendicular to the studs at the centerline of the span using two 1/2 in. long pan-head steel screws. Strips to overlap one full stud bay at splice locations. As an alternate to the steel strap, Perimeter Channels (Item 1) may be substituted and installed in the same manner as the steel straps. If a continuous piece is not used, the abutted legs are installed on each side of the centerline of the span and overlap one full stud bay.
- Gypsum Board*** — Three layers of nom. 5/8 in. thick, 46 to 54 in. wide, gypsum board installed with long dimension perpendicular to the steel studs. Base layer installed with end joints in adjacent rows staggered min. 32 in. Boards secured to studs and perimeter channels with 1-1/4 in. long Type S steel screws spaced max. 16 in. O.C. Middle layer installed with end joints in adjacent rows staggered min. 32 in. Boards secured to the studs and perimeter channels with 1-5/8 in. long Type S steel screws spaced max. 16 in. O.C. Middle layer joints staggered a min. 16 in. from base layer joints. Face layer installed with end joints in adjacent rows staggered min. 32 in. Boards secured to the studs and perimeter channels with 2-1/4 in. long Type S steel screws spaced max. 12 in. O.C. Face layer joints staggered a min. 16 in. from middle layer joints.

AMERICAN GYPSUM CO — Types AGX-1, AG-C, LightRoc.

- Joint Tape and Compound** — Not Shown - (Optional- Not Required On Joints. Required On Screw Heads), - Vinyl, dry or premixed joint compound, applied in two coats to joints and screw heads; paper tape, nom. 2 in. wide, embedded in first layer of compound over all joints.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

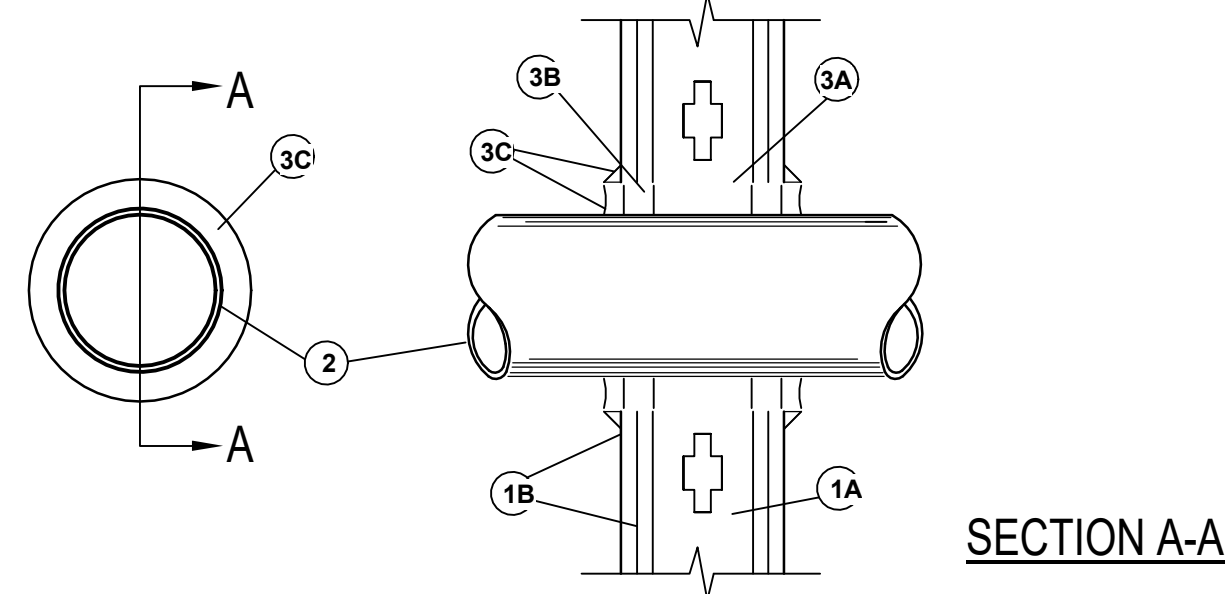
Last Updated on 2017-09-19

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SYSTEM NO. W-L-1003
SEPTEMBER 03, 2004
(FORMERLY SYSTEM NO. 147)
F RATINGS - 1 AND 2 HR (SEE ITEM 1)
T RATING - 0 HR



- Wall Assembly** - The 1 Or 2 Hr Fire-rated Gypsum Wallboard/Steel Stud Wall Assembly Shall Be Constructed Of The Materials And In The Manner Described In The Individual U300 Or U400 Series Wall Or Partition Design In The UL Fire Resistance Directory And Shall Include The Following Construction Features:

- Studs - Wall Framing** May Consist Of Either Wood Studs Or Steel Channel Studs. Wood Studs To Consist Of Nom 2 By 4 In. Lumber Spaced 16 In. Oc With Nom 2 By 4 In. Lumber End Plates And Cross Braces. Steel Studs To Be Min 3-1/2 In. Wide By 1-3/8 In. Deep Channels Spaced Max 24 In. Oc.
- Gypsum Board*** - Nom 5/8 In. Thick, 4 Ft. Wide With Square Or Tapered Edges. The Gypsum Wallboard Type, Thickness, Number Of Layers, Fastener Type And Sheet Orientation Shall Be As Specified In The Individual U300 Or U400 Series Design In The UL Fire Resistance Directory. Max Diam Of Opening Is 15 In. The Hourly F Rating Of The Firestop System Is Equal To The Hourly Fire Rating Of The Wall Assembly In Which It Is Installed.

- Through Penetrant - One Metallic Pipe, Conduit Or Tubing To Be Installed Either Concentrically Or Eccentrically Within The Firestop System. The Space Between Pipes, Conduits Or Tubing And The Steel Sleeve (Item 3a) Shall Be Min Of 0 In. (point Contact) To Max 2-3/8 In. Pipe, Conduit Or Tubing To Be Rigidly Supported On Both Sides Of Wall Assembly. The Following Types And Sizes Of Metallic Pipes, Conduits Or Tubing May Be Used:**

- Steel Pipe** - Nom 12 in. Diam (or Smaller) Schedule 10 (or Heavier) Steel Pipe.
- Iron Pipe** - Nom 12 in. Diam (or Smaller) Service Weight (or Heavier) Cast Iron Soil Pipe, Nom 12 in. Diam (or Smaller) or Class 50 (or Heavier) Ductile Iron Pressure Pipe.
- Conduit** - Nom 6 in. Diam (or Smaller) Steel Conduit Or Nom 4 in. Diam (or Smaller) Steel Electrical Metallic Tubing.
- Copper Tubing** - Nom 6 in. Diam (or Smaller) Type L (or Heavier) Copper Tubing.
- Copper Pipe** - Nom 6 in. Diam (or Smaller) Regular (or Heavier) Copper Pipe.

- Firestop System** - Installed Symmetrically On Both Sides Of Wall Assembly. The Details Of The Firestop System Shall Be As Follows:

- Steel Sleeve** - Cylindrical Sleeve Fabricated From Min 0.019 In. Thick (no. 28 Gauge) Galv Sheet Steel And Having a Min 2 In. Lap Along the Longitudinal Seam. Length Of Steel Sleeve To Be Equal To Thickness Of Wall Plus 1 To 4 In. Such That, When Installed, the Ends Of the Sleeve Will Project Approximately 1/2 To 2 In. Beyond the Surface Of the Wall On Both Sides Of the Wall Assembly. Sleeve Installed By Coiling the Sheet Steel To a Diam Smaller Than the Through Opening, Inserting the Coil Through the Opening And Releasing the Coil To Let It Uncoil Against the Circular Cutouts in the Gypsum.
- Packing Material** - Min 1 in. Thickness Of Mineral Wool Batt Insulation Firmly Packed Into Steel Sleeve On Both Sides Of the Wall Assembly As Permanent Forms. Packing Material To Be Recessed Min 1/2 In. From End Of Steel Sleeve (flush With Or Recessed Into Gypsum Wallboard Surface) On Both Sides Of Wall Assembly.

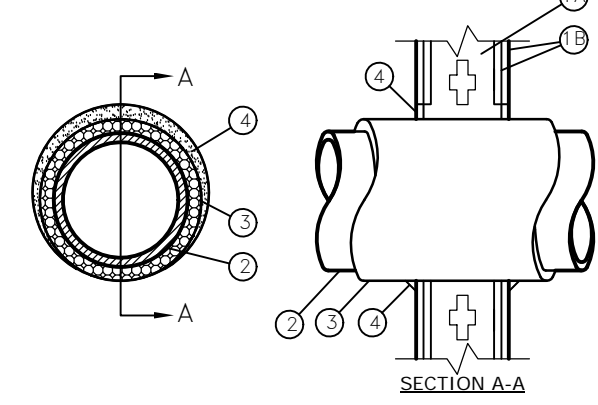
- Packing Material** - (not Shown) - As An Alternate To Item B, Nom 1 in. Thick Polyethylene Backer Rod May Be Used. The Backer Rod Is To Be Recessed Within the Steel Sleeve a Min Of 1 In. From Each Surface Of Wall.

- Fill Void Or Cavity Materials*** - Caulk Or Sealant - When Mineral Wool Batt Insulation Is Used. Applied To Fill the Steel Sleeve To a Min Depth Of 1/2 In. On Both Sides Of Wall Assembly. When Backer Rod Is Used, a Min Thickness Of 1 in. Of Cp-25wb+ Caulk Is Required Flush With Surface Of Wall. A Nom 1/4 In. Diam Continuous Bead Of Caulk Or Sealant Shall Be Applied Around the Circumference Of the Steel Sleeve At Its Egress From the Gypsum Wallboard Layers On Both Sides Of the Wall Assembly.

3m Company - Cp-25wb+ Caulk Or Fb-3000 Wt Sealant or equal

*Bearing the UL Classification Marking

SYSTEM NO. W-L-5039
September 07, 2004
F Ratings - 1 and 2 Hr (See Item 1)
T Ratings - 3/4, 1 and 1-1/2 Hr (See Item 2)



- Wall Assembly** - The 1 Or 2 Hr Fire-rated Gypsum Wallboard/Steel Stud Wall Assembly Shall Be Constructed Of The Materials And In The Manner Specified In The Individual U300 Or U400 Series Wall Or Partition Designs In The UL Fire Resistance Directory And Shall Include The Following Construction Features:

- Studs - Wall Framing** May Consist Of Either Wood Studs Or Steel Channel Studs. Wood Studs To Consist Of Nom 2 By 4 In. Lumber Spaced 16 In. Oc. Steel Studs To Be Min 3-5/8 In. Wide And Spaced Max 24 In. Oc.

- Gypsum Board*** - Nom 5/8 In. Thick, 4 Ft. Wide With Square Or Tapered Edges. The Gypsum Wallboard Type, Number Of Layers, Fastener Type And Sheet Orientation Shall Be As Specified In The Individual Wall And Partition Design. Max Diam Of Opening In Wallboard Layers Is 8-1/2 In.

- The Hourly F Rating Of The Firestop System Is Equal To The Hourly Fire Rating Of The Wall Assembly.

- Metallic Pipe** - Nom 4 in. Diam (or Smaller) Schedule 10 (or Heavier) Steel Pipe Or Type L (or Heavier) Copper Tube. One Pipe To Be Installed Either Concentrically Or Eccentrically Within the Firestop System. Pipe To Be Rigidly Supported On Both Sides Of Wall Assembly.

- Pipe Covering*** - Nom 1/2 To 2 in. Thick Hollow Cylindrical Heavy Density Glass Fiber Units For 1 Hr Rated Assemblies, Nom 1/2 To 1-1/2 in. Thick Cylindrical Heavy Density Glass Fiber Units For 2 Hr Rated Assemblies, Jacketed On the Outside With An All Service Jacket, Longitudinal Joints Sealed With Metal Fasteners Or Factory-applied Seal Tape, Transverse Joints Secured With Metal Fasteners Or With Butt Tape Supplied With the Product. The Annular Space Between the Insulated Pipe And the Edge Of the Through Opening Shall Be Min Zero In. (continuous Point Contact) To Max 1-1/4 In.

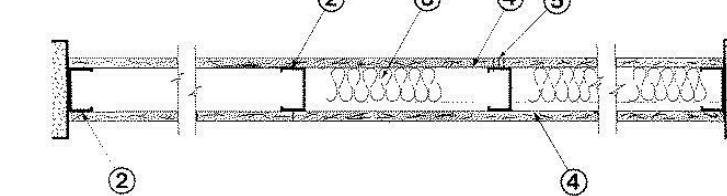
- The Hourly T Rating Is 0 Hr When Pipe Covering Less Than Nom 1-1/2 In. Thick Is Used. When 1-1/2 In. Thick Pipe Covering Is Used, the Hourly T Rating Is 1 Hr When Installed In 1 Hr Rated Walls. When 1-1/2 In. Thick Pipe Covering Is Used In 2 Hr Rated Wall, the T Rating Is 1 Hr When Copper Tube Is Used And 1-1/2 Hr When Steel Pipe Is Used. See Pipe And Equipment Covering - Materials (brgu) Category In the Building Materials Directory For Names Of Manufacturers. Any Pipe Covering Material Meeting the Above Specifications And Bearing the UL Classification Marking With a Flame Spread Index Of 25 Or Less And a Smoke Developed Index Of 50 Or Less May Be Used.

- Fill Void Or Cavity Materials*** - Caulk Or Sealant - Min 5/8 In. Thickness Of Caulk Applied Within Annular Space Flush With Each Surface Of Wall. A Min 1/2 In. Diam Bead Of Caulk Shall Be Applied To the Pipe Insulator's Wallboard Interface At the Point Contact Location On Both Sides Of Wall.

- 3M COMPANY** - CP-25 WB+ caulk or Fb-3000 WT sealant or equal

*Bearing the UL Classification Marking

NONBEARING WALL
RATING - 1 HR
DESIGN NO. U465



- Floor and Ceiling Runners** - (not shown) - Channel shaped runners, 3-5/8 in. wide (min), 1-1/4 in. legs, formed from min No. 25 MSG galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.

- Steel Studs** - Channel shaped, 3-5/8 in. wide (min), 1-1/4 in. legs, 3/8 in. folded back returns, formed from min No. 25 MSG galv steel spaced 24 in. OC max.

- Batts and Blankets*** - (Optional) - Mineral wool or glass fiber batts partially or completely filling stud cavity. See Batts and Blankets (BZJZ) category for names of Classified companies.

- Fiber, Sprayed*** - As an alternate to Batts and Blankets (Item 3) - Spray applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 3.0 lb/ft³. Alternate application method: The fiber is applied with U.S. Greenfiber LLC Type AD100 hot melt adhesive at a nominal ratio of one part adhesive to 6.8 parts fiber to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. Nominal dry density of 2.5 lb/ft³. U.S. GREENFIBER L.L.C. - Cocoon2 Stabilized or Cocoon-FRM (Fire Rated Material) 3B, Fiber, Sprayed* - As an alternate to Batts and Blankets (Item 3) and Item 3A - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft. NU-WOOL CO INC. - Cellulose Insulation

- Gypsum Board*** - 5/8 in. thick, 4 ft wide, attached to steel studs and floor and ceiling track with 1 in. long, Type S steel screws spaced 8 in. OC, along edges of board and 12 in. OC in the field of the board. Joints oriented vertically and staggered on opposite sides of the assembly. When attached to Item 6 (resilient channels) or 6A (furring channels), wallboard is screw attached to furring channels with 1 in. long, Type S steel screws spaced 12 in. OC.

- AMERICAN GYPSUM CO** - Types AG-C, AGX-1, AGX-7, BELJING NEW BUILDING MATERIALS CO LTD - Type DBX-1, BBP AMERICA INC - Types 1, EGRG, ProRoc Type X, ProRoc Type C, BBP CANADA INC - ProRoc Type C, ProRoc Type X or ProRoc Type Abuse-Resistant, CANADIAN GYPSUM COMPANY - Types AR, C, IP-AR, IP-X2, IP-X2, IPC-AR, SCX, SHX, WRC or WRX, GYP GYPSUM CORP, SUBS OF GEORGIA-PACIFIC CORP - Types 5, 9, C, DAP, GD, DA, DGS, DS, GFSB, LAFARGE NORTH AMERICA INC - Types LGC2, LGC2A, LGC6, LGC6A, LGC6-C, LGC6-G/A, NATIONAL GYPSUM CO - Types FSK, FSK-C, FSK-G, FSW-G, FSW, FSW-3, FSW-5, PABCO GYPSUM, DIV OF PACIFIC COAST BUILDING PRODUCTS INC - Type PSC-0 or PSC-9, PANEL REY S A - Type PRX, SHIM GYPSUM INDUSTRY (SARABURI) CO LTD - Type EK-1

- Gypsum Board*** - (As Alternate To Item 4) - Nom 5/8 In. Thick Gypsum Panels With Beveled, Square Or Tapered Edges, Applied Vertically Or Horizontally. Vertical Joints Centered Over Studs And Staggered One Stud Cavity On Opposite Sides Of Studs. Horizontal Edge Joints And Horizontal Butt Joints On Opposite Sides Of Studs. Studs Need Not Be Staggered Or Backed. Panels Attached To Steel Studs And Floor Runner With 1 in. Long Type S Steel Screws Spaced 8 in. Oc When Applied Horizontally, Or 8 in. Oc Along Vertical And Bottom Edges And 12 in. Oc In the Field When Panels Are Applied Vertically. Canadian Gypsum Company - Types Ar, C, Ip-ar, Ip-x1, Ip-x2, Ip-ar, Scx, Shx, Wrc Or Wrx. United States Gypsum Co - T Type Ar, C, Fmg, Ip-ar, Ip-x1, Ip-x2, Ip-ar, Scx, Shx, Wrc Or Wrx. Usig Mexico S A De C V - Type Ar, C, Ip-ar, Ip-x1, Ip-x2, Ip-ar, Scx, Shx, Wrc Or Wrx.

- Gypsum Board*** - (as An Alternate To Items 4 Or 4a) - Nom 3/4 In. Thick, 4 Ft. Wide, Installed As Described In Item 4a With Screw Length Increased To 1-1/4 In. Canadian Gypsum Company - Types Ar, Ip-ar. United States Gypsum Co - Types Ar, Ip-ar. Usig Mexico S A De C V - Types Ar, C, Ip-ar.

- Joint Tape And Compound** - Vinyl, Dry Or Premixed Joint Compound, Applied In Two Coats To Joints And Screw Heads; Paper Tape, 2 in. Wide, Embedded In First Layer Of Compound Over All Joints. As An Alternate, Nominal 932 In. Thick Gypsum Veneer Plaster May Be Applied To the Entire Surface Of Classified Veneer Baseboard. Joints Reinforced.

- Resilient Channel** - (optional-not Shown) - 25 Msg Galv Steel Resilient Channels Spaced Vertically Max 24 In. Oc. Flange Portion Attached To Each Intersecting Stud With 1/2 in. Long Type S-12 Plainhead Steel Screws.

- Steel Framing Members** (not Shown)* - As An Alternate To Item 3, Furring Channels And Resilient Sound Isolation Clip As Described Below:

- Furring Channels** - Formed Of No. 25 Msg Galv Steel, 2-3/8 In. Wide By 7/8 In. Deep, Spaced 24 In. Oc Perpendicular To Studs. Channels Secured To Studs As Described In Item B. Ends Of Adjoining Channels Are Overlapped 6 In. And Tied Together With Double Strand Of No. 18 Swg Galv Steel Wire Near Each End Of Overlap. As An Alternate, Ends Of Adjoining Channels May Be Overlapped 6 In. And Secured Together With Two Self-tapping #6 Framing Screws, Min. 7/16 In. Long At the Midpoint Of the Overlap, With One Screw On Each Flange Of the Channel.

- <

APPLICABLE CODES

1. FLORIDA BUILDING CODE (FBC) 2017 SIXTH EDITION
 2. FLORIDA ACCESSIBILITY CODE, 2017 SIXTH EDITION
 3. FLORIDA FIRE PREVENTION CODE (FFPC) 2017 SIXTH EDITION
 4. FLORIDA EXISTING BUILDING CODE 2017 SIXTH EDITION
- OTHER APPLICABLE CODE CRITERIA, BUT NOT LIMITED TO THE FOLLOWING:
1. NFPA 1, "UNIFORM FIRE CODE," 2018 ED. AS MODIFIED BY FFPC
 2. NFPA 10, "STANDARD FOR PORTABLE FIRE EXTINGUISHERS," 2018 EDITION
 3. NFPA 13, "STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS," 2016 EDITION
 4. NFPA 70, "NATIONAL ELECTRICAL CODE," 2017 EDITION
 5. NFPA 72, "NATIONAL FIRE ALARM CODE," 2016 EDITION
 6. NFPA 80, "STANDARD FOR FIRE DOORS AND FIRE WINDOWS," 2016 EDITION
 7. NFPA 101, "LIFE SAFETY CODE," 2018 ED. AS MODIFIED BY THE FFPC
 8. NFPA 110, "STANDARD ON EMERGENCY AND STANDBY POWER SYSTEMS," 2013 EDITION
 9. CLASSIFICATION OF WORK: ALTERATION LEVEL 2 PER FBC EXISTING BUILDING SIXTH EDITION 2017 EXISTING BUILDING CHAPTER 5 SECTION 504.1.

CONSTRUCTION CLASSIFICATION

1. OCCUPANCY CLASSIFICATION	EXISTING BUILDING
1.1 CONSTRUCTION TYPE	GROUP B / BUSINESS OCCUPANCY
1.2 ALLOWABLE HEIGHT	FULLY SPRINKLER MONITORED FIRE ALARM SYSTEM 55 FEET
1.3 ALLOWABLE AREA	23,000 SF
1.4 ALLOWABLE STORIES	3 STORIES

2. EXISTING BUILDING AREA	
2.1 TOTAL BUILDING AREA (EXISTING)	27,585 SF
2.2 FIRST LEVEL GROSS FLOOR AREA (EXISTING)	16,110 SF
2.3 SECOND LEVEL GROSS FLOOR AREA (EXISTING)	11,475 SF

3. RENOVATION PROJECT - WORK AREA	
3.1 FIRST LEVEL GROSS FLOOR AREA	1,236 SF
3.2 SECOND LEVEL GROSS FLOOR AREA	10,998 SF

4. EXISTING NUMBER OF STORIES	
	2 STORIES

OCCUPANT LOAD

PER TABLE 1004.1.1 / FBC 2014

1. OCCUPANT LOAD - BASEMENT FLOOR	PRIMARY OCCUPANCY CLASSIFICATION	GROUP B - BUSINESS OCCUPANCY
1.1 ASSEMBLY (A-3)		96
1.2 BUSINESS (B)		94
1.3 STORAGE (S-1)		11
1.4 TOTAL OCCUPANT LOAD SECOND LEVEL ONLY		201

MEANS OF EGRESS

- CHAPTER 10 - FBC 2014
1. MAXIMUM TRAVEL DISTANCE TO AN EXIT (PER TABLE 1014.2 FBC 2014 - EXIT ACCESS TRAVEL DISTANCE)

(A) - 200 FEET	SEE LIFE SAFETY PLAN
(B) - 300 FEET	
 2. MAXIMUM COMMON PATH OF TRAVEL (PER TABLE 1014.3 FBC 2014 - COMMON PATH OF EGRESS TRAVEL)

(A) - 75 FEET	SEE LIFE SAFETY PLAN
(B) - 100 FEET	
 3. MAXIMUM DEAD END CORRIDOR (PER SECTION 1014.2 DEAD ENDS)

50 FEET	SEE LIFE SAFETY PLAN
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 4. MINIMUM NUMBER OF EXITS (PER SECTION 1014.2 DEAD ENDS)

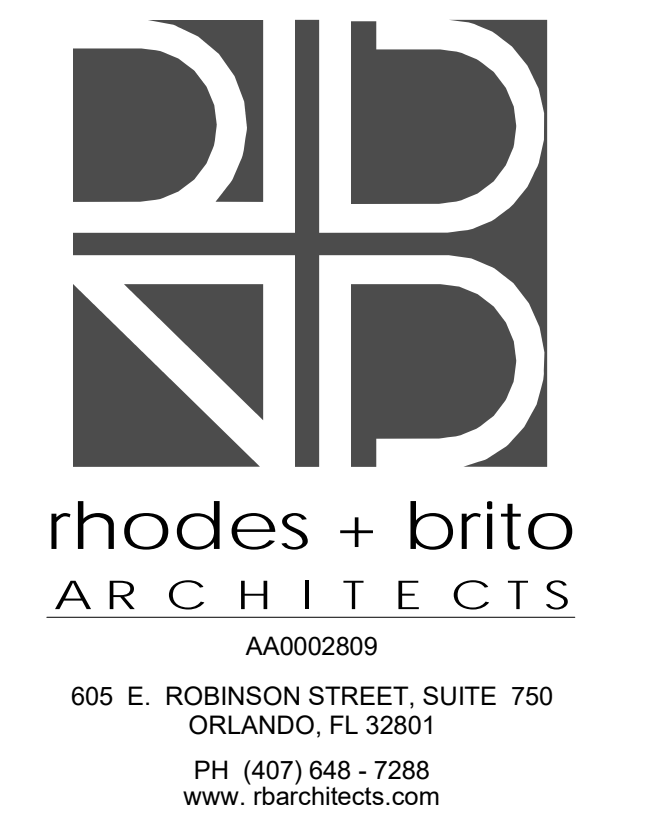
REQUIRED	PROVIDED
2	4
 5. EGRESS EXIT DOORS: MINIMUM 32" CLEAR WIDTH (LSC 7.2.1.3.2)
 6. FORCE TO OPEN: APPLIED AT THE LATCH STILE (FBC 1008.1.3 / LSC 7.2.1.4.5)
 - 6.1. LESS THAN OR EQUAL TO 15 LBF TO OPERATE THE LATCH
 - 6.2. LESS THAN OR EQUAL TO 30 LBF TO SET THE DOOR IN MOTION
 - 6.3. LESS THAN OR EQUAL TO 15 LBF TO FULLY OPEN DOOR TO MINIMUM REQUIRED WIDTH
 - 6.4. LESS THAN OR EQUAL TO 5 LBF FOR INTERIOR SIDE-HINGED OR PIVOTED SWINGING DOORS WITHOUT CLOSERS
 7. EXIT SIGNS: EXIT SIGN PLACEMENT SHALL BE SUCH THAT NO POINT IN AN EXIT ACCESS CORRIDOR OR EXIT PASSAGEWAY IS MORE THAN 100 FT OR THE LISTED VIEWING DISTANCE FOR THE SIGN, WHICHEVER IS LESS, FROM THE NEAREST VISIBLE EXIT SIGN (FBC 1011.1 / LSC 7.10.1.5.2)
 8. ELEVATOR LOBBY TO COMPLY WITH NFPA 101 SECTION 7.2.1.6.3
 9. IN REGARDS TO FIRE EXTINGUISHER CABINET: PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2A:10-B-C WITHIN 50 FOOT TRAVEL DISTANCE TO ALL PORTIONS OF THE BUILDING ON EACH FLOOR. AND ADDITIONAL EXTINGUISHERS AS REQUIRED BY AUTHORITY HAVING JURISDICTION (AHJ).
 10. MEANS OF EGRESS SIZING: OCCUPANTS x (0.2) FOR DOOR CLEAR OPENING WIDTH. OCCUPANTS x (0.3) FOR STAIRWAYS WIDTH CAPACITY IN INCHES PER OCCUPANT. IN BUILDINGS EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH SECTION 903.1.1 OR 903.1.2 AND AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5.2.2. (FBC 1005.3.1)

OCCUPANCY LEGEND

- ASSEMBLY (A-3)
- BUSINESS (B)
- STORAGE (S-1)
- Calculating...

LIFE SAFETY LEGEND

- 1 HOUR FIRE RATED WALL
- MAXIMUM TRAVEL DISTANCE TO AN EXIT
- COMMON PATH OF TRAVEL TO CHOICE OF TWO TRAVEL PATHS
- SEMI-RECESSED AUTOMATED EXTERNAL DEFIBRILLATOR (AED)
- WALL MOUNTED FIRE EXTINGUISHER CLASS: 2A:10B-C (FE)
- SURFACE MOUNTED FIRE EXTINGUISHERHOSE CABINET CLASS: 2A:10B-C (FEC)
- RECESSED FIRE EXTINGUISHERHOSE CABINET CLASS: 2A:10B-C (FEC)
- EXIT SIGN
- EXIT SIGN WITH DIRECTIONAL ARROW
- ROOM AREA (SQUARE FEET) (XXX SF)
- OCCUPANT LOAD FACTOR (XXX)
- OCCUPANT LOAD USING EXIT (XX PERSONS)
- REQUIRED EXIT WIDTH (INCHES) (XX" REQUIRED)
- OCCUPANT LOAD x 0.2" per OCCUPANT PROVIDED EXIT WIDTH (INCHES) (XX" PROVIDED)



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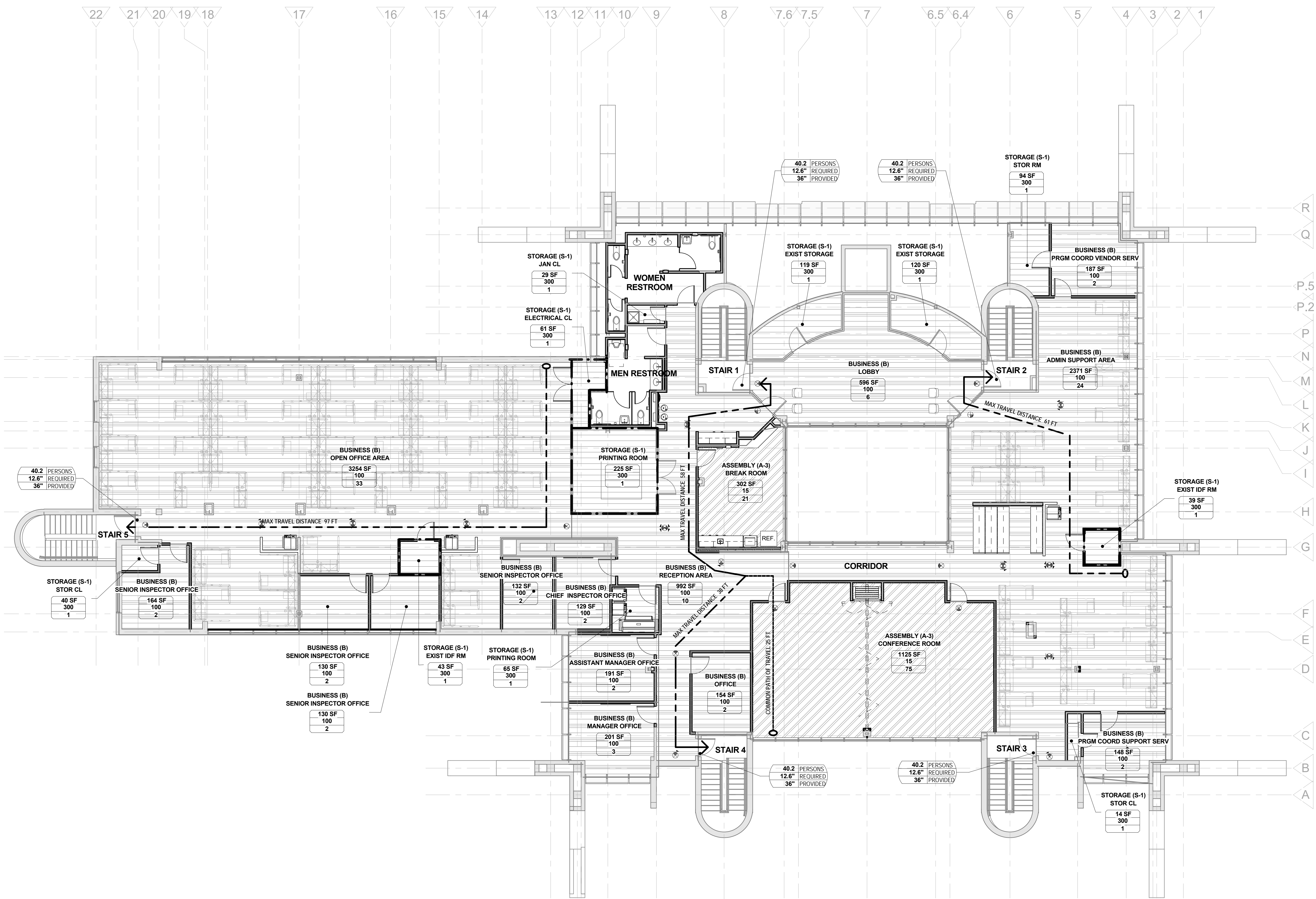
BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION / REVISION	NO.

LIFE SAFETY PLAN
LEVEL 02

SCALE: AS INDICATED
DRAWN BY: AC
CHECK BY: AC/MB
DATE: May 30, 2018
PROJECT NUMBER: 15012-0020

G202



PLUMBING FIXTURES PER TABLE 403.1 / FBC 2017 PLUMBING

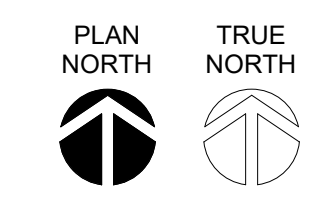
1. FIXTURE PER PERSON - SECOND LEVEL

	PLUMBING FIXTURE EXISTING CONDITIONS			PLUMBING FIXTURE REQUIRED			PLUMBING FIXTURE PROVIDED		
	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX	MALE	FEMALE	UNISEX
1.1 WATER CLOSETS	2	2	1	2	3		2	3	
1.2 URINALS	1	-	-	1	-		1	-	
1.3 LAVATORIES	3	2	1	2	2		3	4	
1.4 DRINKING FOUNTAINS			1		1		1	HILLOWBOTTLE	
1.5 UTILITY SINK, SERVICE SINK			NONE		1 SERVICE SINK			1 SERVICE SINK	

LIFE SAFETY PLAN LEVEL 02

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

A7
G202

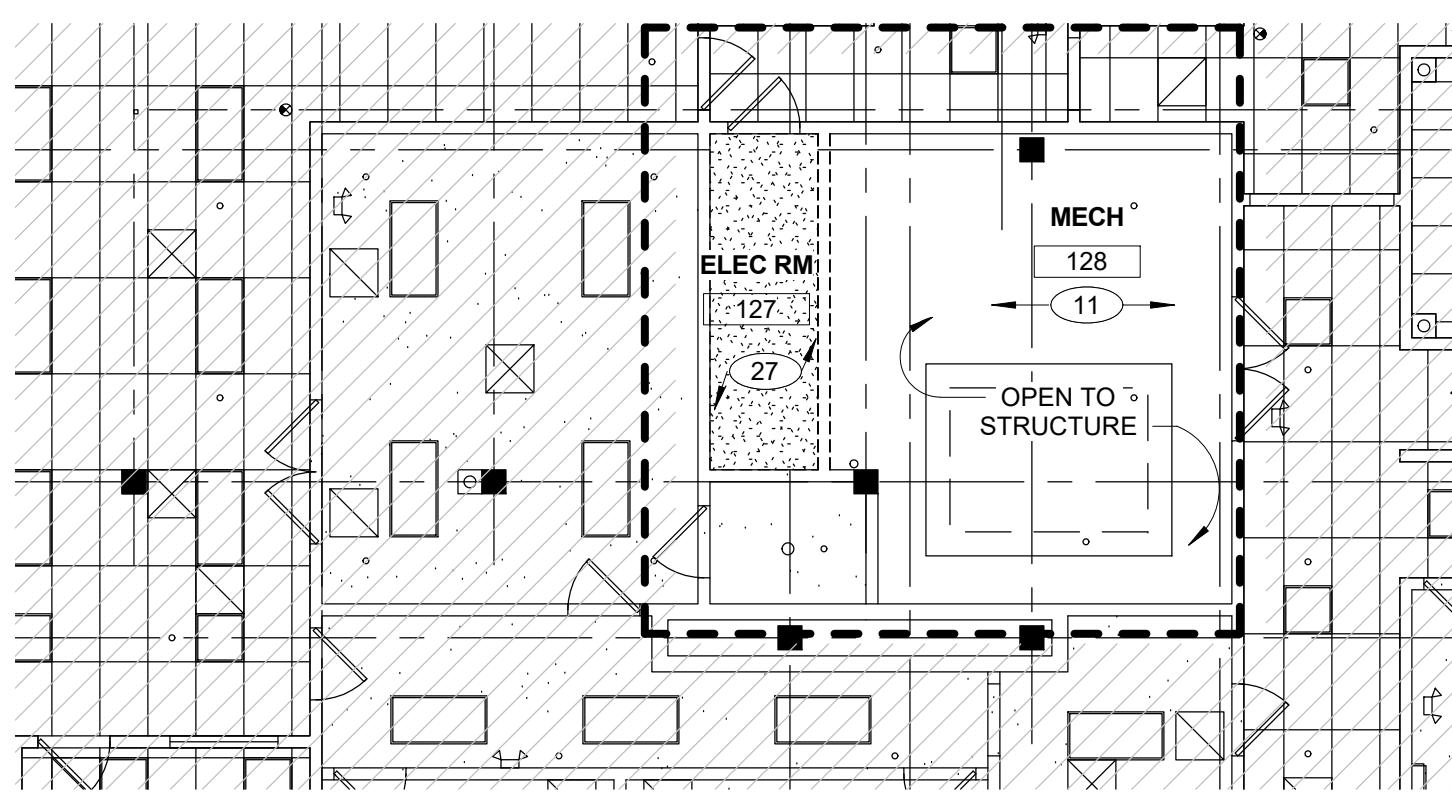




DEMOLITION IMAGE

SCALE: 12" = 1'-0"

1
AD101



RCP DEMO PLAN LEVEL 01

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

G4
AD101

G7
AD101



DEMOLITION IMAGE

SCALE: 12" = 1'-0"

G9
AD101

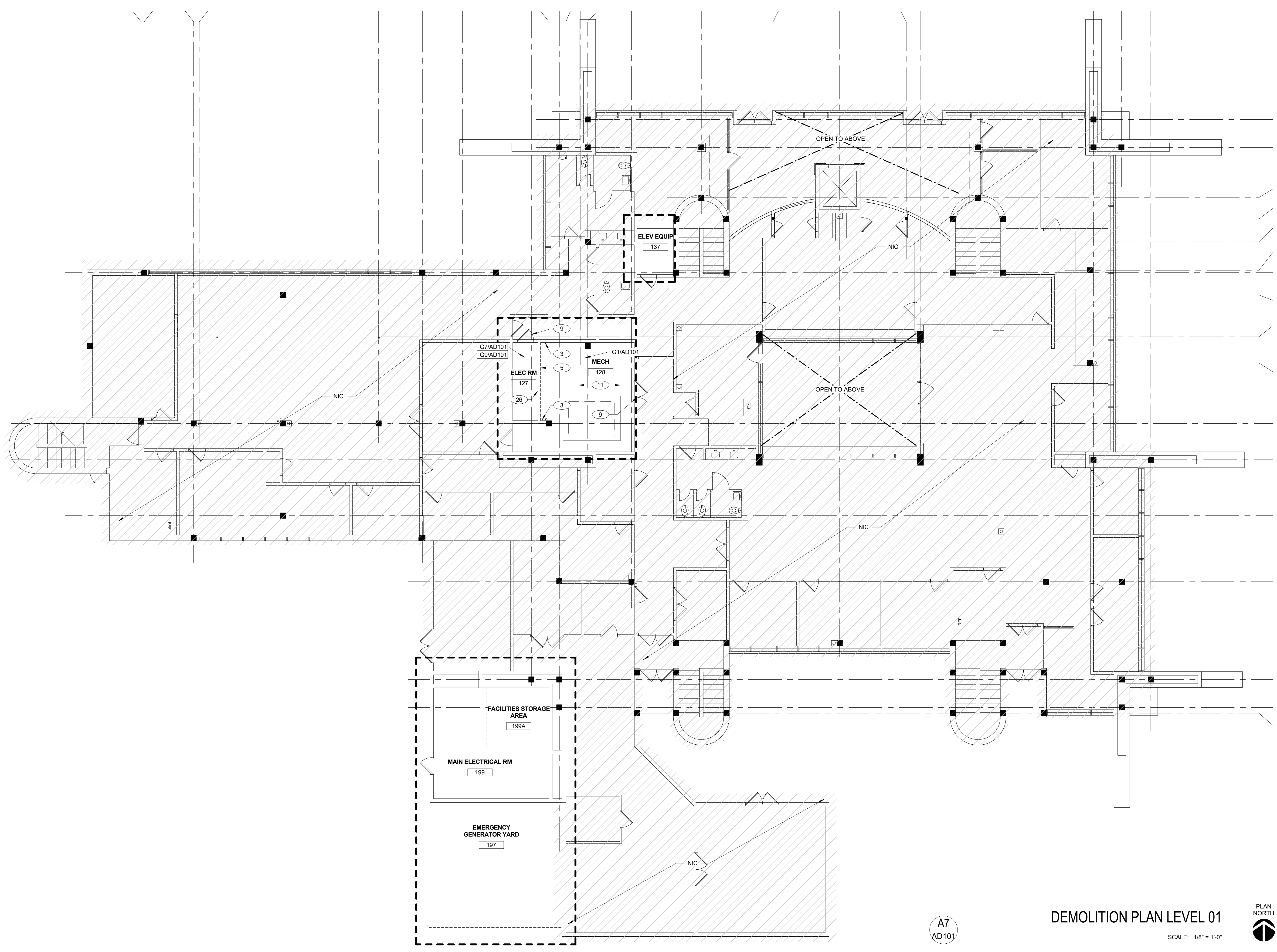


DEMOLITION IMAGE

SCALE: 12" = 1'-0"

DEMOLITION KEYNOTES

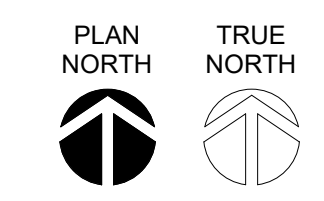
- (NOT ALL NOTES APPLY TO SHEET)
- EXISTING 1HR RATED PARTITION TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION - TYPICAL.
 - THE HATCHED AREA INDICATES AREAS NOT IN SCOPE OF WORK.
 - PREPARE EXISTING SURFACES TO RECEIVE NEW CONSTRUCTION - TYPICAL.
 - REMOVE ALL ACCOUSTICAL CEILING TILES AND GRID - PROTECT WALL FROM DAMAGE DURING DEMOLITION.
 - REMOVE WALLS AS REQUIRED TO RECEIVE NEW WORK - PROTECT ADJACENT WALL FROM DAMAGE - TYPICAL.
 - LIGHT FIXTURES TO BE REMOVED - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - EXISTING DUCTWORK, PIPING AND HVAC UNIT TO BE REMOVED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - REMOVE EXISTING DOORS AND PREPARE SURFACE FOR NEW CONSTRUCTION. REFER TO ARCHITECTURAL FLOOR PLAN.
 - EXISTING DOOR TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. EXISTING EXTERIOR CURTAIN WALL SHALL REMAIN AND EXISTING GLAZING FILM ARE TO BE REMOVED AND REPLACED. EXISTING WINDOW BLINDS ARE TO BE REMOVED AND REPLACED. PREPARE GLAZING SURFACE FOR NEW CONSTRUCTION. PROTECT GLAZING AND CURTAIN WALL FROM DAMAGE DURING CONSTRUCTION. REPAIR ANY CURTAIN WALL DAMAGE AFTER REMOVAL OF ITEMS. REPAIR GLAZING IF DAMAGE DURING CONSTRUCTION.
 - EXISTING MECHANICAL ROOM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. REFER ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - EXISTING EXIT STAIRS TO REMAIN CLEAR OF ANY DEBRIS DURING CONSTRUCTION. CLEAR PATH TO BE MAINTAINED FOR THE OCCUPIED BUILDING.
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 - PREPARE SLAB FOR RELOCATION OF HIGH DENSITY STORAGE SYSTEM IN THIS AREA. REFER TO THE FLOOR AND EQUIPMENT PLAN FOR MORE INFORMATION.



DEMOLITION PLAN LEVEL 01

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

A7
AD101



DEMOLITION LEGEND

- EXISTING WALL TO REMAIN
- EXISTING WALL TO BE DEMOLISHED
- EXISTING MOVABLE WALL PANEL TO BE DEMOLISHED

GENERAL DEMOLITION NOTES

- DRAWINGS REPRESENT EXISTING CONDITIONS BASED ON LIMITED EXISTING AS-BUILT DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATIONS OF ALL ACTUAL CONDITIONS AND DIMENSIONS.
- THE CONTRACTOR WILL BE PRESUMED TO HAVE INSPECTED THE SITE AND TO HAVE READ AND BE THOROUGHLY FAMILIAR WITH THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. THE FAILURE OR OMISSION OF ANY CONTRACTOR TO EXAMINE ANY FORM, INSTRUMENT OR DOCUMENT SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM ANY OBLIGATION IN RESPECT TO THIS PROJECT.
- THIS SHEET INDICATED GENERALLY WHERE DEMOLITION OF EXISTING CONSTRUCTION IS TO OCCUR. THE DEMOLITION SHOWN ON THIS SHEET IS NOT INTENDED TO LIMIT OR FULLY DEFINE THE SCOPE OF ITEMS TO BE REMOVED. NOR IS IT INTENDED TO REPRESENT ALL EXISTING FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE AREA OF DEMOLITION IN ORDER TO BECOME FAMILIAR WITH EXISTING CONSTRUCTION WHERE DEMOLITION IS TO OCCUR. THE CONTRACTOR IS TO NOTIFY THE OWNER IN WRITING OF ANY CONFLICTING CONDITIONS AND DISCREPANCIES PRIOR TO START OF DEMOLITION.
- DEMOLITION DRAWINGS MAY NOT INDICATE ALL ITEMS TO BE REMOVED OR TO REMAIN. COORDINATE DEMOLITION OF WALLS, EQUIPMENT, UTILITIES, ETC., AND ITEMS TO REMAIN WITH OTHER DISCIPLINES.
- CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOW OR NOT SHOWN ON CONSTRUCTION OR CUTTING INTO ANY WALL. PERMANENT PROCEDURES ARE TO BE MADE TO REROUTE OR BYPASS UTILITIES TO AVOID DISRUPTION OR SURVEYING OF UTILITIES CONTRACTOR SHALL NOT REQUEST ADDITIONAL CHARGES FOR SUCH UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION).
- PRIOR TO START OF DEMOLITION THE CONTRACTOR SHALL SURVEY THE AREA OF DEMOLITION IN THE PRESENCE OF THE OWNER REPRESENTATIVES TO IDENTIFY EXISTING ITEMS TO REMAIN, TO BE SALVAGED, TO BE REMOVED AND REINSTALLED DURING CONSTRUCTION, DAMAGE OR OTHERWISE NOT IN "LIKE NEW" CONDITIONS. THOSE TIMES AND THEIR CONDITION ARE TO BE LISTED IN A "DAMAGE SURVEY" ACCEPTED BY BOTH OWNER AND CONTRACTOR. ANY ITEMS IDENTIFIED AS EXISTING TO REMAIN, TO BE SALVAGED, TO BE REMOVED AND REINSTALLED DURING CONSTRUCTION AND SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR, OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.
- WHERE EXISTING WALL MOUNTED DEVICES, FIXTURES, EQUIPMENT, ETC., ARE SCHEDULED TO BE REMOVED, STORED AND REINSTALLED DURING CONSTRUCTION, CONTRACTOR SHALL COORDINATE STORAGE WITH OWNER AND SHALL PROTECT THOSE ITEMS FROM DAMAGE DURING CONSTRUCTION.
- CONTRACTOR IS TO PROVIDE ALL PERMITS AND COMPLY WITH ALL APPLICABLE ORDINANCES, REGULATIONS AND CODES IN THE REMOVAL AND DISPOSAL OF MATERIAL. DISPOSAL OF ALL RUBBISH AND DEBRIS IS TO BE IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND JURISDICTIONS.
- CONTRACTOR SHALL NOT USE THE EXISTING ELEVATOR FOR THE REMOVAL OF CONSTRUCTION TRASH AND FOR CONSTRUCTION ITEMS. PRIOR TO START OF DEMOLITION THE CONTRACTOR SHALL SURVEY THE ELEVATOR IN THE PRESENCE OF THE OWNER REPRESENTATIVES TO IDENTIFY EXISTING CONDITIONS DURING CONSTRUCTION. IF DAMAGE OR OTHERWISE NOT IN "LIKE NEW" CONDITIONS, THOSE TIMES AND THEIR CONDITION ARE TO BE LISTED IN A "DAMAGE SURVEY" ACCEPTED BY BOTH OWNER AND CONTRACTOR. ANY ITEMS IDENTIFIED AS DAMAGED DURING CONSTRUCTION AT THE EXISTING ELEVATOR, SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR, OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.



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DEMOLITION PLAN
AND RCP DEMO PLAN
LEVEL 01

SCALE: AS INDICATED
DRAWN BY: Author
CHECK BY: Checker
DATE: May 30, 2018
PROJECT NUMBER: 15012-0020

AD101



DEMOLITION IMAGE

SCALE: 12" = 1'-0"



DEMOLITION IMAGE

SCALE: 12" = 1'-0"



DEMOLITION IMAGE

SCALE: 12" = 1'-0"



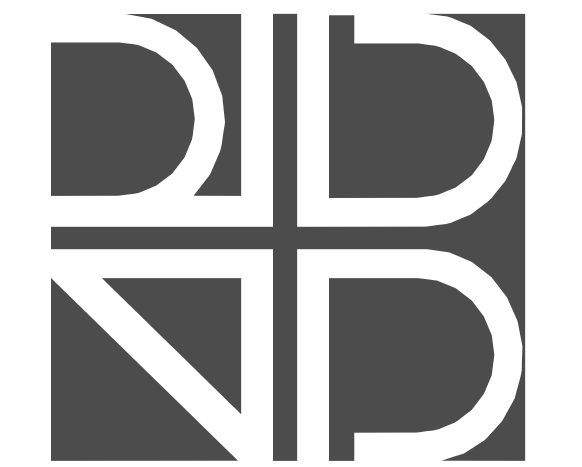
DEMOLITION IMAGE

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Consultants



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DATE	SUBMISSION / REVISION	NO.

DEMOLITION PLAN
LEVEL 02

SCALE: AS INDICATED

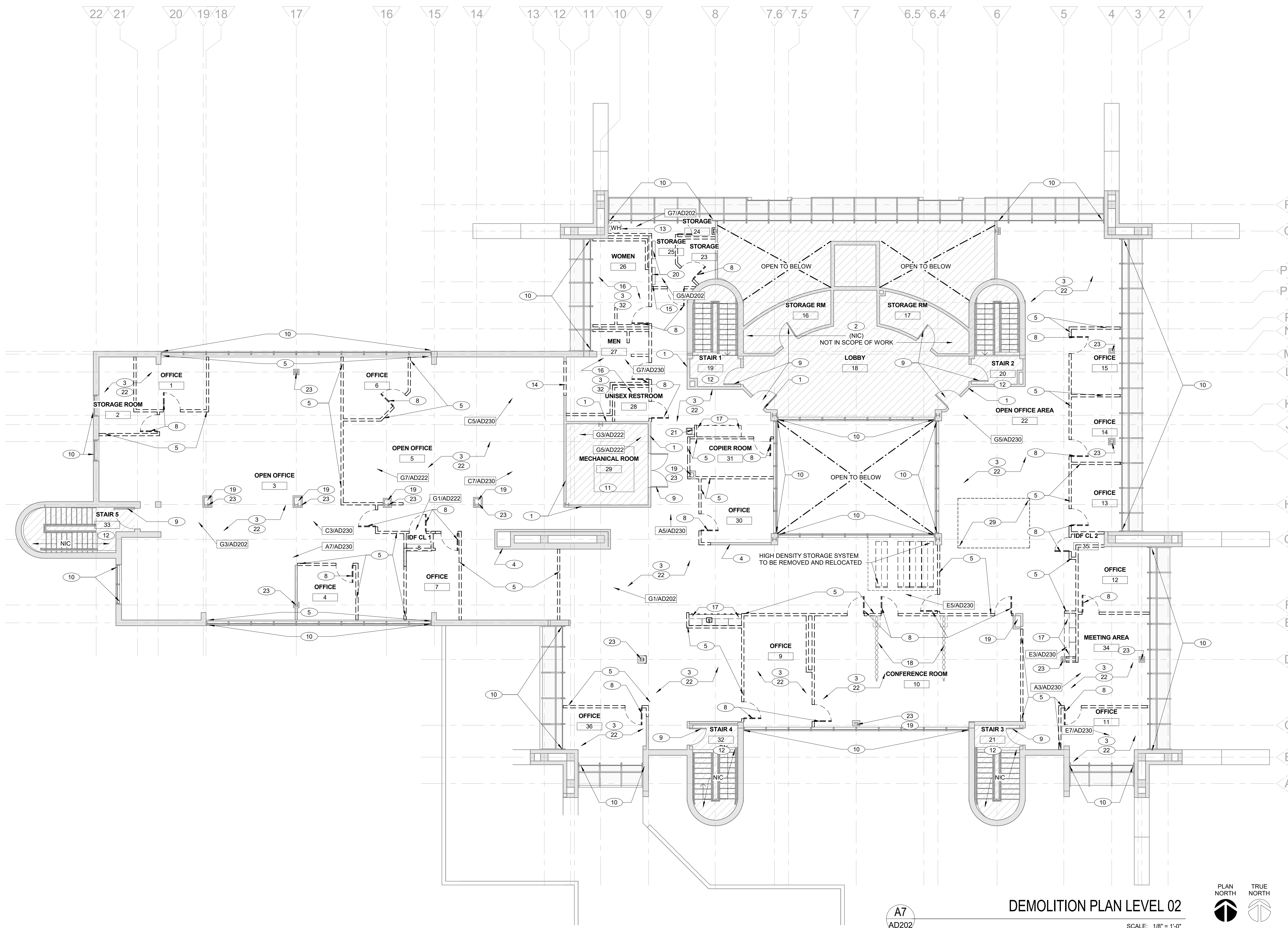
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DATE: May 30, 2018

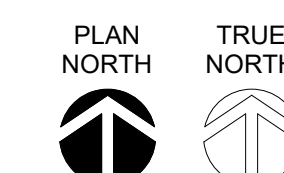
PROJECT NUMBER: 15012-0020

AD202



DEMOLITION PLAN LEVEL 02

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

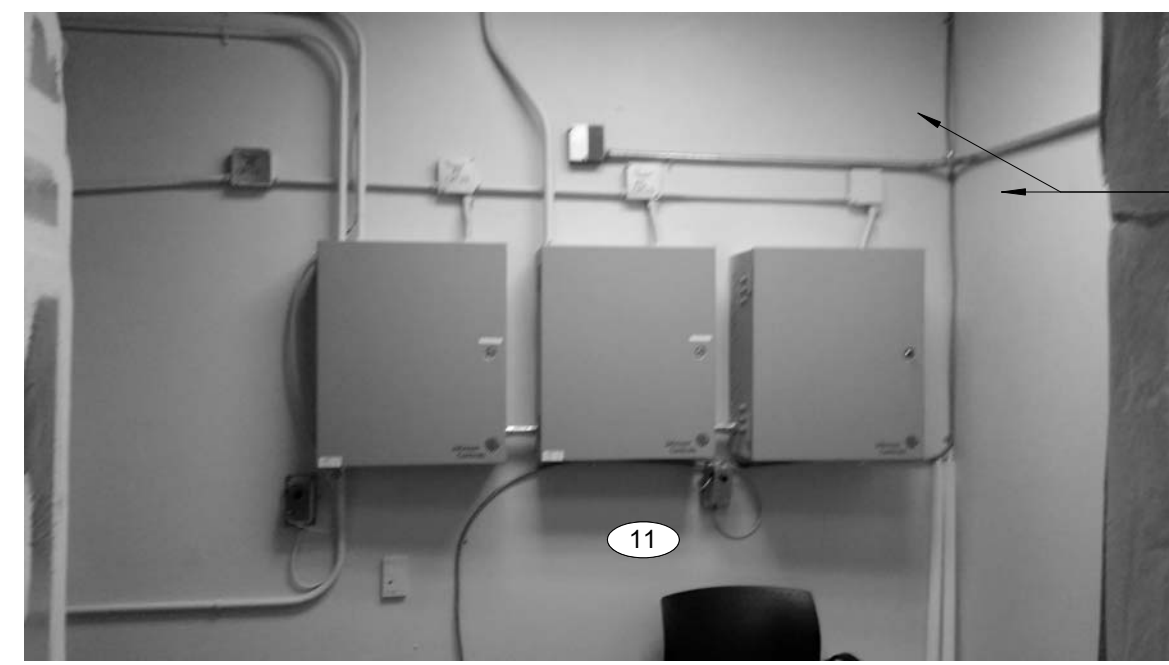


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AD202



DEMOLITION IMAGE

SCALE: 12" = 1'-0"



DEMOLITION IMAGE

SCALE: 12" = 1'-0"



DEMOLITION IMAGE

SCALE: 12" = 1'-0"



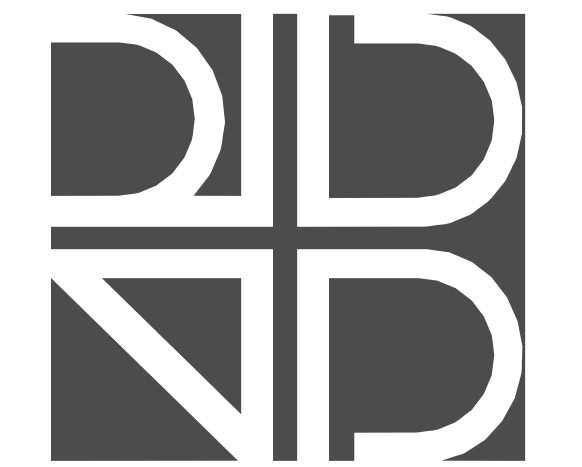
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- 27 EXISTING LIGHTING, SPRINKLER HEAD AND CEILING TO REMAIN IN PLACE AND PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 28 EXISTING DUCTWORK TO BE RELOCATED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 29 PREPARE SLAB FOR RELOCATION OF HIGH DENSITY STORAGE SYSTEM IN THIS AREA. REFER TO THE FLOOR AND EQUIPMENT PLAN FOR MORE INFORMATION.



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FL Reg. No. AR0015108

BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION / REVISION	NO.

REFLECTED CEILING
DEMOLITION PLAN
LEVEL 02

SCALE: AS INDICATED

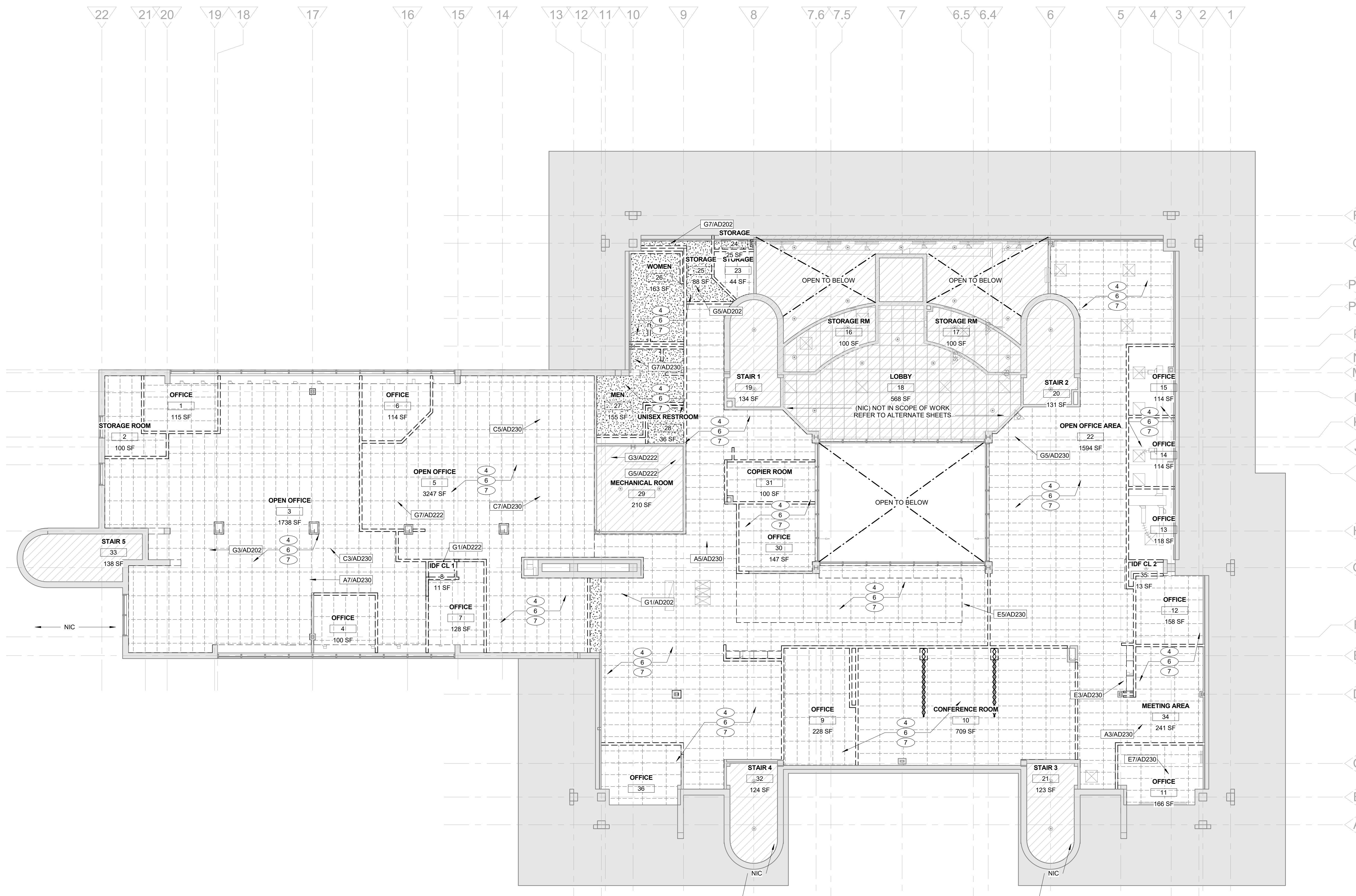
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CHECK BY: AC/MB

DATE: May 30, 2018

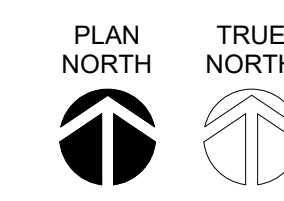
PROJECT NUMBER: 15012-0020

AD222



REFLECTED CEILING DEMOLITION PLAN
LEVEL 02

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



A7
AD222

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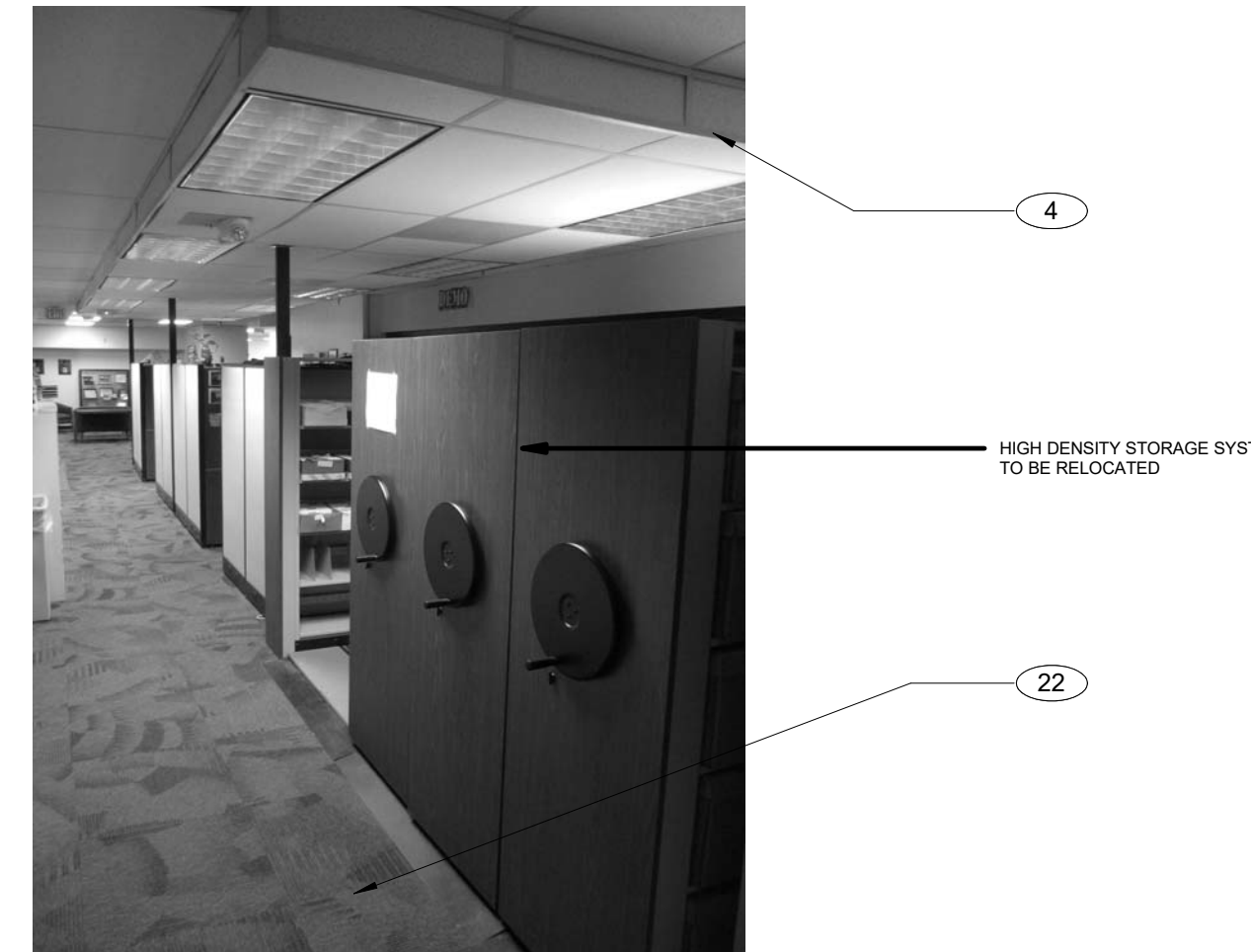
G5
AD230
DEMOLITION IMAGE
SCALE: 12" = 1'-0"



G7
AD230
DEMOLITION IMAGE
SCALE: 12" = 1'-0"



E3
AD230
DEMOLITION IMAGE
SCALE: 12" = 1'-0"



E5
AD230
DEMOLITION IMAGE
SCALE: 12" = 1'-0"



E7
AD230
DEMOLITION IMAGE
SCALE: 12" = 1'-0"



C3
AD230
DEMOLITION IMAGE
SCALE: 12" = 1'-0"



C5
AD230
DEMOLITION IMAGE
SCALE: 12" = 1'-0"



C7
AD230
DEMOLITION IMAGE
SCALE: 12" = 1'-0"



A3
AD230
DEMOLITION IMAGE
SCALE: 12" = 1'-0"



A5
AD230
DEMOLITION IMAGE
SCALE: 12" = 1'-0"



A7
AD230
DEMOLITION IMAGE
SCALE: 12" = 1'-0"

DEMOLITION KEYNOTES

KEYNOTE NUMBER

(NOT ALL NOTES APPLY TO SHEET)

- 1 EXISTING 1HR RATED PARTITION TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION - TYPICAL.
- 2 THE HATCHED AREA INDICATES AREAS NOT IN SCOPE OF WORK.
- 3 PREPARE EXISTING SURFACES TO RECEIVE NEW CONSTRUCTION - TYPICAL.
- 4 REMOVE ALL ACOUSTICAL CEILING TILES AND GRID - PROTECT WALL FROM DAMAGE DURING DEMOLITION.
- 5 REMOVE WALLS AS REQUIRED TO RECEIVE NEW WORK - PROTECT ADJACENT WALL FROM DAMAGE - TYPICAL.
- 6 LIGHT FIXTURES TO BE REMOVED - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 7 EXISTING DUCTWORK, PIPING AND HVAC UNIT TO BE REMOVED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 8 REMOVE EXISTING DOORS AND PREPARE SURFACE FOR NEW CONSTRUCTION. REFER TO ARCHITECTURAL FLOOR PLAN.
- 9 EXISTING DOOR TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. EXISTING EXTERIOR CURTAIN WALL SHALL REMAIN AND EXISTING GLAZING FILM ARE TO BE REMOVED AND REPLACED. EXISTING WINDOW BLINDS ARE TO BE REMOVED AND REPLACED. PREPARE GLAZING SURFACE FOR NEW CONSTRUCTION. PROTECT GLAZING AND CURTAIN WALL FROM DAMAGE DURING CONSTRUCTION. REPAIR ANY CURTAIN WALL DAMAGE AFTER REMOVAL OF ITEMS. REPAIR GLAZING IF DAMAGE DURING CONSTRUCTION.
- 11 EXISTING MECHANICAL ROOM TO REMAIN. PROTECT FROM DAMAGE DURING CONSTRUCTION. REFER ELECTRICAL AND MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 12 EXISTING EXIT STAIRS TO REMAIN CLEAR OF ANY DEBRIS DURING CONSTRUCTION. CLEAR PATH TO BE MAINTAINED FOR THE OCCUPIED BUILDING.
- 13 WATER HEATER TO BE REMOVED. RETURNED TO OWNER IF NOT REUSED. REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
- 14 REMOVE EXISTING WALL FOR NEW DOOR/OPENING. PATCH AND PREPARE SURFACES TO RECEIVE NEW CONSTRUCTION.
- 15 FIRE ALARM STROBE TO BE REMOVED. REFER TO SYSTEMS AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 16 EXISTING RESTROOM FIXTURES AND PARTITIONS TO BE REMOVED IN THEIR ENTIRETY - SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION - TYPICAL.
- 17 MILWORK TO BE REMOVED IN ITS ENTIRETY - PREPARE SURFACES FOR NEW CONSTRUCTION - TYPICAL.
- 18 EXISTING MOVABLE WALL PANEL TO BE REMOVED IN THEIR ENTIRETY - TYPICAL.
- 19 EXISTING RAIN LEADER - PROTECT FROM DAMAGE DURING CONSTRUCTION - TYPICAL.
- 20 EXISTING ELECTRICAL PANEL TO BE RELOCATED. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 21 EXISTING DRINKING FOUNTAIN TO BE REMOVED IN THEIR ENTIRETY.
- 22 REMOVE EXISTING FLOORING DOWN TO STRUCTURAL SLAB. PREPARE SURFACE AREA FOR NEW CONSTRUCTION - TYPICAL.
- 23 EXISTING STRUCTURAL COLUMNS TO REMAIN AND PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 24 EXISTING FLOOR DRAIN TO BE CAP IN. REFER TO PLUMBING FOR ADDITIONAL INFORMATION.
- 25 EXISTING ROOM TO REMAIN IN ITS LOCATION. EXISTING CABLE AND TRAYS TO BE PROTECTED DURING CONSTRUCTION.
- 26 EXISTING FIRE ALARM TO BE REMOVED AND REINSTALLED. REFER TECHNOLOGY DRAWINGS.
- 27 EXISTING LIGHTING, SPRINKLER HEAD AND CEILING TO REMAIN IN PLACE AND PROTECT FROM DAMAGE DURING CONSTRUCTION.
- 28 EXISTING DUCTWORK TO BE RELOCATED. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 29 PREPARE SLAB FOR RELOCATION OF HIGH DENSITY STORAGE SYSTEM IN THIS AREA. REFER TO THE FLOOR AND EQUIPMENT PLAN FOR MORE INFORMATION.

GENERAL DEMOLITION NOTES

- A DRAWINGS REPRESENT EXISTING CONDITIONS BASED ON LIMITED EXISTING AS-BUILT DRAWINGS AND SITE OBSERVATIONS. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATIONS OF ALL ACTUAL CONDITIONS AND DIMENSIONS.
- B THE CONTRACTOR WILL BE PRESUMED TO HAVE INSPECTED THE SITE AND TO HAVE READ AND BE THOROUGHLY FAMILIAR WITH THE CONSTRUCTION DOCUMENTS AND SPECIFICATIONS. THE FAILURE OR OMISSION OF ANY CONTRACTOR TO EXAMINE ANY FORM, INSTRUMENT OR DOCUMENT SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM ANY OBLIGATION IN RESPECT TO THIS PROJECT.
- C THIS SHEET INDICATED GENERALLY WHERE DEMOLITION OF EXISTING CONSTRUCTION IS TO OCCUR. THE DEMOLITION SHOWN ON THIS SHEET IS NOT INTENDED TO LIMIT OR FULLY DEFINE THE SCOPE OF ITEMS TO BE REMOVED. NOR IS IT INTENDED TO REPRESENT ALL EXISTING FEATURES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE AREA OF DEMOLITION IN ORDER TO BECOME FAMILIAR WITH EXISTING CONSTRUCTION WHERE DEMOLITION IS TO OCCUR. THE CONTRACTOR IS TO NOTIFY THE OWNER IN WRITING OF ANY CONFLICTING CONDITIONS AND DISCREPANCIES PRIOR TO START OF DEMOLITION.
- D DEMOLITION DRAWINGS MAY NOT INDICATE ALL ITEMS TO BE REMOVED OR TO REMAIN. COORDINATE DEMOLITION OF WALLS, EQUIPMENT, UTILITIES, ETC., AND ITEMS TO REMAIN WITH OTHER DISCIPLINES.
- E CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON CONSTRUCTION OR CUTTING INTO ANY WALL. PERMANENT PROCEDURES ARE TO BE MADE TO REROUTE OR BYPASS UTILITIES TO AVOID DISRUPTION OR SURVEYING OF UTILITIES CONTRACTOR SHALL NOT REQUEST ADDITIONAL CHARGES FOR SUCH UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION).
- F PRIOR TO START OF DEMOLITION THE CONTRACTOR SHALL SURVEY THE AREA OF DEMOLITION IN THE PRESENCE OF THE OWNER REPRESENTATIVES TO IDENTIFY EXISTING ITEMS TO REMAIN, TO BE SALVAGE, TO BE REMOVED AND REINSTALLED DURING CONSTRUCTION, DAMAGE OR OTHERWISE NOT IN "LIKE NEW" CONDITIONS. THOSE ITEMS AND THEIR CONDITION ARE TO BE LISTED IN A "DAMAGE SURVEY" ACCEPTED BY BOTH OWNER AND CONTRACTOR. ANY ITEMS IDENTIFIED AS EXISTING TO REMAIN, TO BE SALVAGED, TO BE REMOVED AND REINSTALLED DURING CONSTRUCTION AND SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR, OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.
- G WHERE EXISTING WALL MOUNTED DEVICES, FIXTURES, EQUIPMENT, ETC., ARE SCHEDULED TO BE REMOVED, STORED AND REINSTALLED DURING CONSTRUCTION, CONTRACTOR SHALL COORDINATE STORAGE WITH OWNER AND SHALL PROTECT THOSE ITEMS FROM DAMAGE DURING CONSTRUCTION.
- H CONTRACTOR IS TO PROVIDE ALL PERMITS AND COMPLY WITH ALL APPLICABLE ORDINANCES, REGULATIONS AND CODES IN THE REMOVAL AND DISPOSAL OF MATERIAL. DISPOSAL OF ALL RUBBISH AND DEBRIS IS TO BE IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND JURISDICTIONS.
- J CONTRACTOR SHALL NOT USE THE EXISTING ELEVATOR FOR THE REMOVAL OF CONSTRUCTION TRASH AND FOR CONSTRUCTION ITEMS. PRIOR TO START OF DEMOLITION THE CONTRACTOR SHALL SURVEY THE ELEVATOR IN THE PRESENCE OF THE OWNER REPRESENTATIVES TO IDENTIFY EXISTING CONDITIONS DURING CONSTRUCTION. IF DAMAGE OR OTHERWISE NOT IN "LIKE NEW" CONDITIONS, THOSE ITEMS AND THEIR CONDITION ARE TO BE LISTED IN A "DAMAGE SURVEY" ACCEPTED BY BOTH OWNER AND CONTRACTOR. ANY ITEMS IDENTIFIED AS DAMAGED DURING CONSTRUCTION AT THE EXISTING ELEVATOR, SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR, OR REPLACE AT NO ADDITIONAL COST TO THE OWNER.

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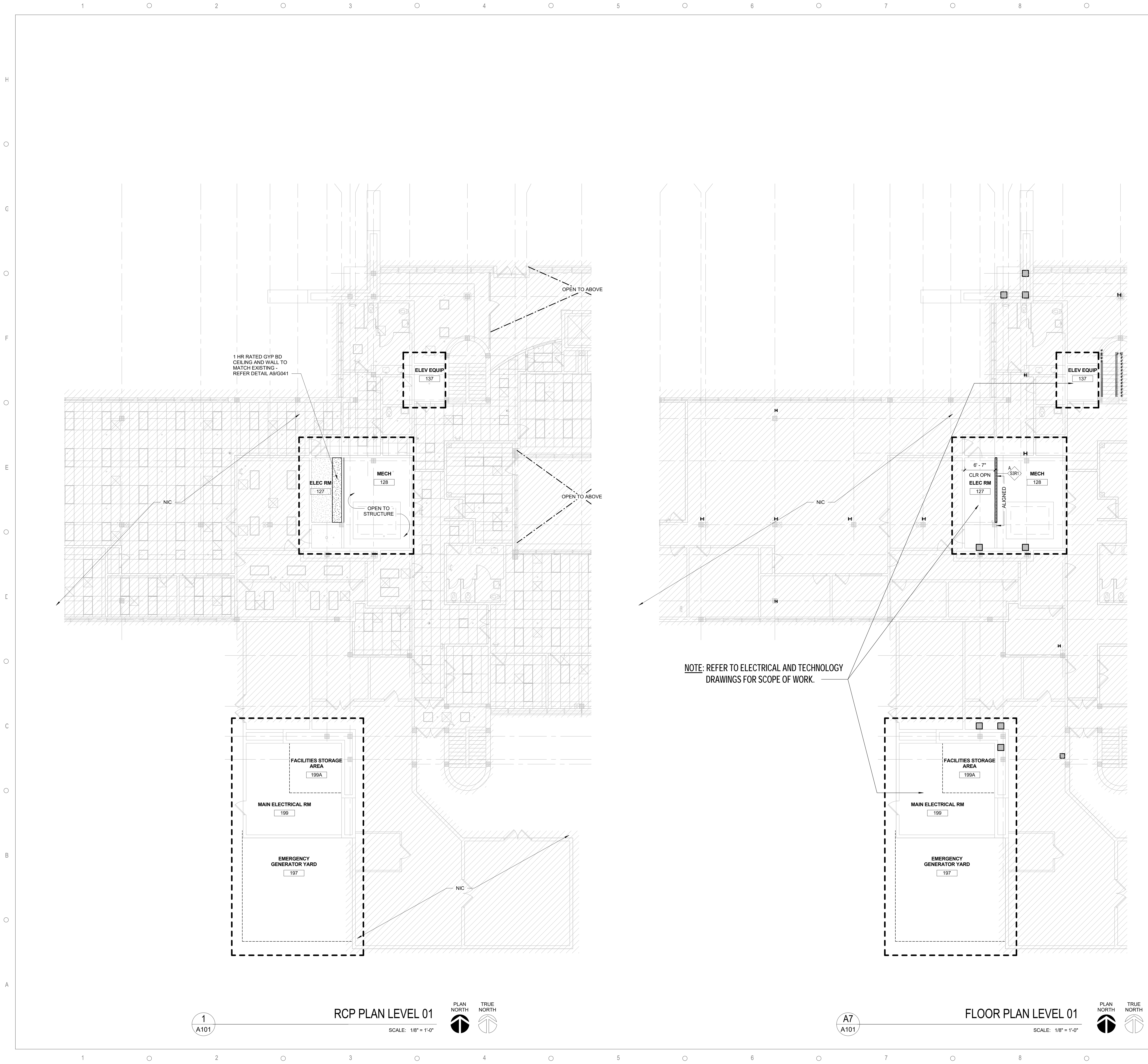
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DATE	SUBMISSION / REVISION	NO.

DEMOLITION DETAILS

SCALE:	AS INDICATED
DRAWN BY:	AC
CHECK BY:	AC/MB
DATE:	May 30, 2018
PROJECT NUMBER:	15012-0020

AD230



FLOOR PLAN KEYNOTES

(NOT ALL NOTES APPLY TO SHEET)

1. PROVIDE GYPSUM WALL BOARD TO EXISTING FURRING EXTERIOR WALLS AND REPAIR ANY WATER DAMAGE FROM WINDOW ABOVE.
2. THE HATCHED AREA INDICATES AREAS NOT IN SCOPE OR WORK, NIC.
3. OPERABLE PARTITION WALL - BASIS OF DESIGN BY HUFOR UNISPAN - FURNISHED AND INSTALLED BY CONTRACTOR.
4. EXISTING HIGH DENSITY STORAGE SYSTEM RELOCATED, WITH FLOOR STORAGE MOVABLE TRACK AND STORAGE. FIELD VERIFICATION MAY BE NECESSARY FOR EXISTING CONDITIONS AND POSSIBLE REPLACEMENT OF MOVABLE TRACKS. PREPARE SLAB FOR INSTALLATION OF THE STORAGE BASE AND TRACKS.
5. SEMI RECESSED FIRE EXTINGUISHER CABINET. REFER TO MOUNTING HEIGHTS ON THIS SHEET.
6. SEMI RECESSED AED CABINET. REFER TO MOUNTING HEIGHTS ON THIS SHEET.
7. PRINTERS BY OWNER. INSTALLED AND COORDINATED INSTALLATION BY GC.
8. ALL EXISTING WALLS TO REMAIN SHOULD BE EXTENDED AND COORDINATED WITH REPLACED REFLECTED CEILING HEIGHTS, TYPICAL.
9. WINDOW FILM TO BE INSTALLED AT THE EXISTING GLAZING AT EXTERIOR CURTAIN WALLS. BASIS OF DESIGN TO BE 3M SCOTCHSHIELD SAFETY AND SECURITY WINDOW FILM ULTRA NIGHT VISION SERIES - ULTRA PRESTIGE 30 - COMMERCIAL GRADE WITH ENERGY EFFICIENCY.
10. CONCRETE CURB AT RESTROOM WALLS. REFER TO WALL TYPES.
11. PROVIDE 2"x2" WALL ACCESS PANELS AS REQUIRED PER OWNER. REFER TO OWNER FOR LOCATIONS.

FLOOR PLAN LEGEND

- DOOR REFER TO DOOR SCHEDULE
- LOUVER TYPE REFER TO DOOR SCHEDULE
- DOOR NUMBER REFER TO DOOR SCHEDULE
- PARTITION TYPE INDICATOR REFER TO G040 FOR PARTITION TYPES

REFLECTED CEILING LEGEND

- 2x2 RECESSED DIRECT / INDIRECT LED TROFFER
- 4' SUSPENDED DIRECT / INDIRECT LED LINEAR PENDANT
- 8' SUSPENDED DIRECT / INDIRECT LED LINEAR PENDANT
- 4' RECESSED LINEAR LED DIRECT WALL WASH FIXTURE
- SPRINKLER HEAD
- WIRELESS ACCESS POINT
- WALL MOUNTED EXIT SIGN LIGHT FIXTURE
- CEILING MOUNTED EXIT SIGN LIGHT
- WALL MOUNTED STROBE LIGHT
- WALL MOUNTED HORN STROBE LIGHT
- HVAC EXHAUST FAN
- HVAC SUPPLY DIFFUSER
- HVAC RETURN AIR DIFFUSER
- 2x2 ACCESS PANEL
- 2x2 CEILING GRID (ACP TYPE)
- GYP. BD CEILING (GB TYPE)

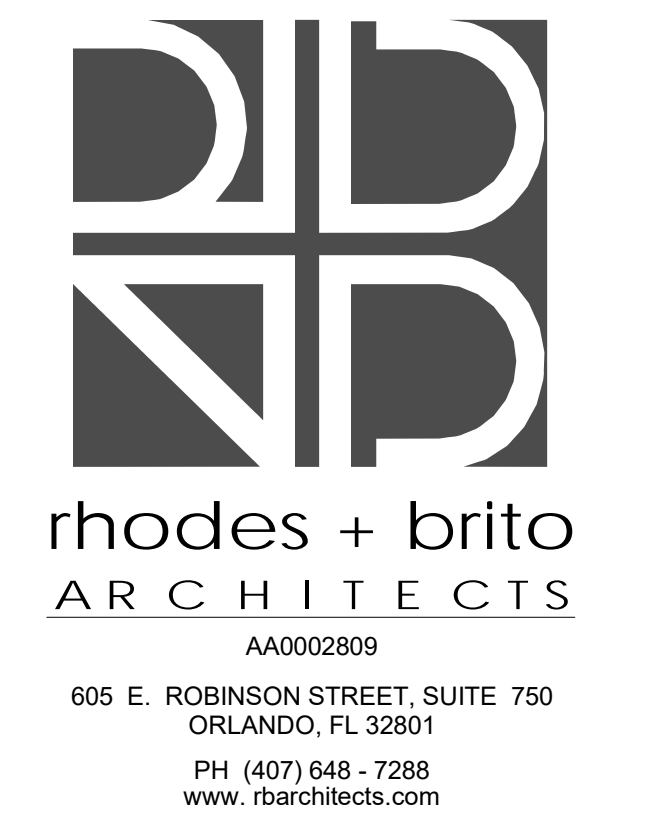
FLOOR PLAN GENERAL NOTES

- A. GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND SCHEDULING CONSTRUCTION. OBTAINING WRITTEN APPROVAL FROM THE OWNER OF DEMOLITION SCHEDULE IS REQUIRED.
- B. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. NOTIFY OWNER IN WRITING OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
- C. PROTECT ALL EXISTING ITEMS TO REMAIN FROM DAMAGE. CONTRACTOR SHALL BEAR ALL COSTS FOR REPAIRING, REPLACING, REFINISHING ITEMS OF EXISTING (INCLUDING FIRE SMOKE RATING) IF DAMAGE DURING CONSTRUCTION.
- D. CONTRACTOR IS TO MAINTAIN EXISTING FIRE AND SMOKE RATING AT ALL TIMES. CONTRACTOR IS TO PATCH AND REPAIR ANY DAMAGES TO EXISTING CONDITIONS. REPAIRS MUST MEET OWNER'S SATISFACTION.
- E. CONTRACTOR IS TO ENSURE THAT DOOR, WINDOW AND/OR RATING INFORMATION, STENCILS AND LABELS ARE NOT PAINTED OVER OR COVERED. CONTRACTOR IS TO REPAIR AND REPLACE DAMAGED OR COVERED LABELS.
- F. PROVIDE, ERECT AND MAINTAIN TEMPORARY PARTITIONS, BARRIERS, GUARD RAILS AND OTHER SAFETY ITEMS AS REQUIRED BY REGULATORY AGENCIES, AS REQUIRED TO PROTECT OCCUPANTS OR AS NECESSARY TO PROTECT MATERIALS, SURFACES AND FINISHES.
- G. WHEN CUTTING INTO EXISTING WALLS, SLAB AND ROOF, CONTRACTOR SHALL TAKE EXTREME CARE AND CAUTION TO AVOID DAMAGING THE STRUCTURAL INTEGRITY OF THESE AREAS. CONTRACTOR SHALL DOCUMENT ALL WALL, ROOF CUTS AND SLAB CUTS WHERE REINFORCING MEMBERS ARE CUT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, RESTORING AND MAINTAINING STRUCTURAL PERFORMANCE WHERE THE STRUCTURAL SYSTEM HAS BEEN COMPROMISED.
- H. CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON CONSTRUCTION DOCUMENTS) THAT ARE TO REMAIN PRIOR TO DEMOLITION OR CUTTING INTO ANY WALL OR SLAB. PERMANENT PROCEDURES ARE TO BE MADE TO REROUTE OR BYPASS UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION).
- J. WHERE SURFACE MOUNTED ITEMS ARE REMOVED FROM WALLS (SIGNAGE, RACKWAYS, EQUIPMENT, ETC) TO PATCH AND REPAIR WALLS AS REQUIRED TO MATCH EXISTING ADJACENT FINISHES.
- K. CONTRACTOR TO COMPLY WITH ALL ADA STANDARDS AND REQUIREMENTS.
- L. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL PERMITS AND COMPLY WITH ALL APPLICABLE ORDINANCES, REGULATIONS AND CODES IN THE REMOVAL AND DISPOSAL OF MATERIALS. DISPOSAL OF ALL RUBBISH AND DEBRIS IS TO BE IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND JURISDICTIONS.
- M. HATCHED AREAS INDICATE AREAS AND ITEMS NOT IN SCOPE OF WORK. NIC COORDINATE WITH ENGINEERING DRAWINGS FOR FULL EXTENT OF SCOPE.

NOTE: REFER TO ELECTRICAL AND TECHNOLOGY DRAWINGS FOR SCOPE OF WORK.

RCP PLAN LEVEL 01
SCALE: 1/8" = 1'-0"

FLOOR PLAN LEVEL 01
SCALE: 1/8" = 1'-0"



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FLOOR AND REFLECTED CEILING PLANS LEVEL 01

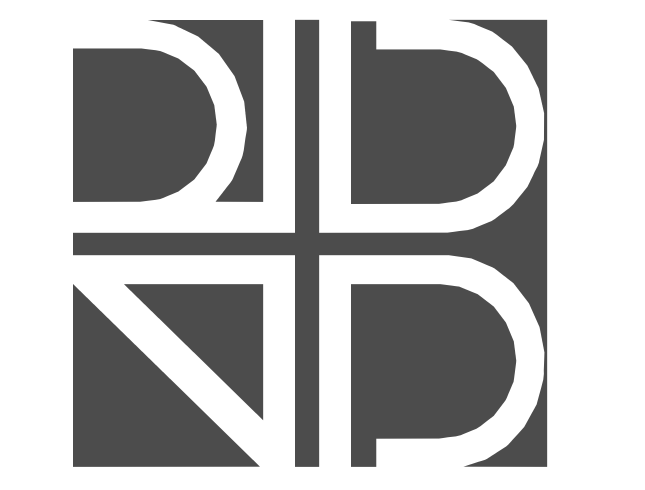
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DRAWN BY: Author
CHECK BY: Checker
DATE: May 30, 2018
PROJECT NUMBER: 15012-0020

A101

FLOOR PLAN KEYNOTES

(NOT ALL NOTES APPLY TO SHEET)

- 1 PROVIDE GYPSUM WALL BOARD TO EXISTING FURRING EXTERIOR WALLS AND REPAIR ANY WATER DAMAGE FROM WINDOW ABOVE.
- 2 THE HATCHED AREA INDICATES AREAS NOT IN SCOPE OR WORK. NIC.
- 3 OPERABLE PARTITION WALL - BASIS OF DESIGN BY HUFOR UNISPAN - FURNISHED AND INSTALLED BY CONTRACTOR.
- 4 EXISTING HIGH DENSITY STORAGE SYSTEM RELOCATED, WITH FLOOR STORAGE MOVABLE TRACK AND STORAGE. FIELD VERIFICATION MAY BE NECESSARY FOR EXISTING CONDITIONS AND POSSIBLE REPLACEMENT OF MOVABLE TRACKS. PREPARE SLAB FOR INSTALLATION OF THE STORAGE BASE AND TRACKS.
- 5 SEMI-RECESSED FIRE EXTINGUISHER CABINET. REFER TO MOUNTING HEIGHTS ON THIS SHEET.
- 6 SEMI-RECESSED AED CABINET. REFER TO MOUNTING HEIGHTS ON THIS SHEET.
- 7 PRINTERS BY OWNER. INSTALLED AND COORDINATED INSTALLATION BY GC.
- 8 ALL EXISTING WALLS TO REMAIN SHOULD BE EXTENDED AND COORDINATED WITH REPLACED REFLECTED CEILING HEIGHTS, TYPICAL.
- 9 WINDOW FILM TO BE INSTALLED AT THE EXISTING GLAZING AT EXTERIOR CURTAIN WALLS. BASIS OF DESIGN TO BE 3M SCOTCHSHIELD SAFETY AND SECURITY WINDOW FILM ULTRA NIGHT VISION SERIES - ULTRA PRESTIGE 30 - COMMERCIAL GRADE WITH ENERGY EFFICIENCY.
- 10 CONCRETE CURB AT RESTROOM WALLS. REFER TO WALL TYPES.
- 11 PROVIDE 2"x2" WALL ACCESS PANELS AS REQUIRED PER OWNER. REFER TO OWNER FOR LOCATIONS.



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FLOOR PLAN LEVEL 02

SCALE: AS INDICATED

DRAWN BY: MA/AC

CHECK BY: AC/MB

DATE: May 30, 2018

PROJECT NUMBER: 15012-0020

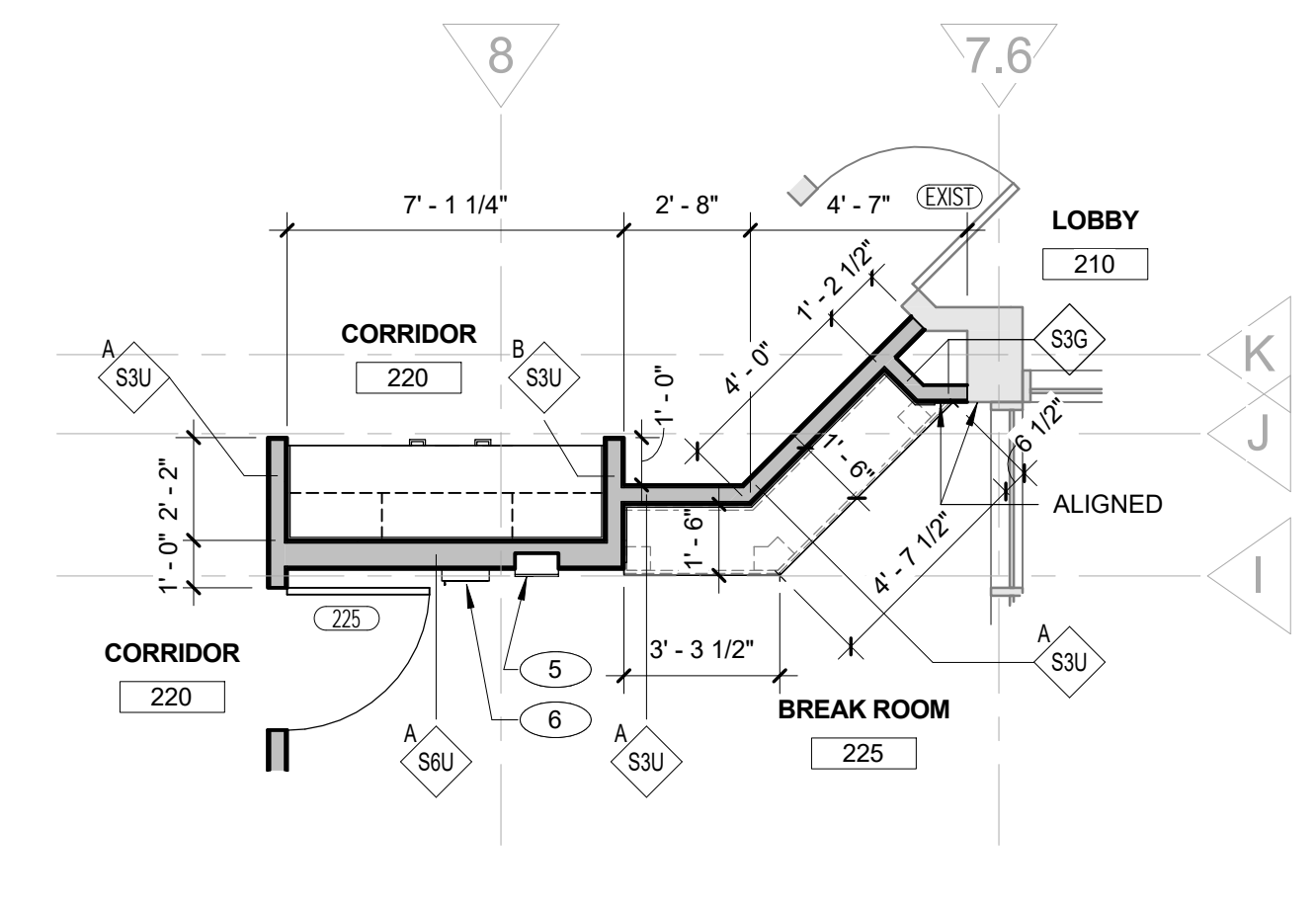
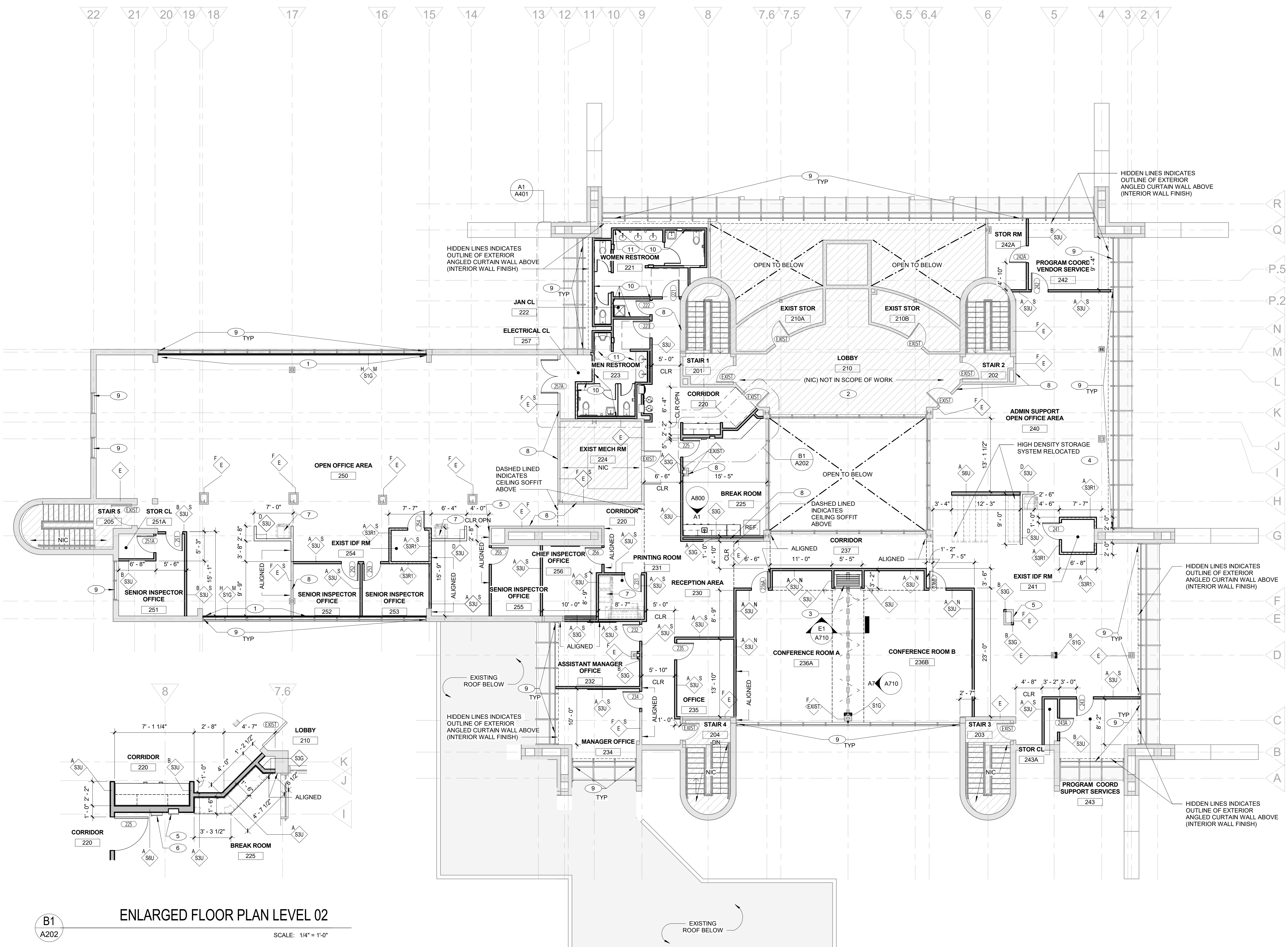
A202

FLOOR PLAN LEGEND

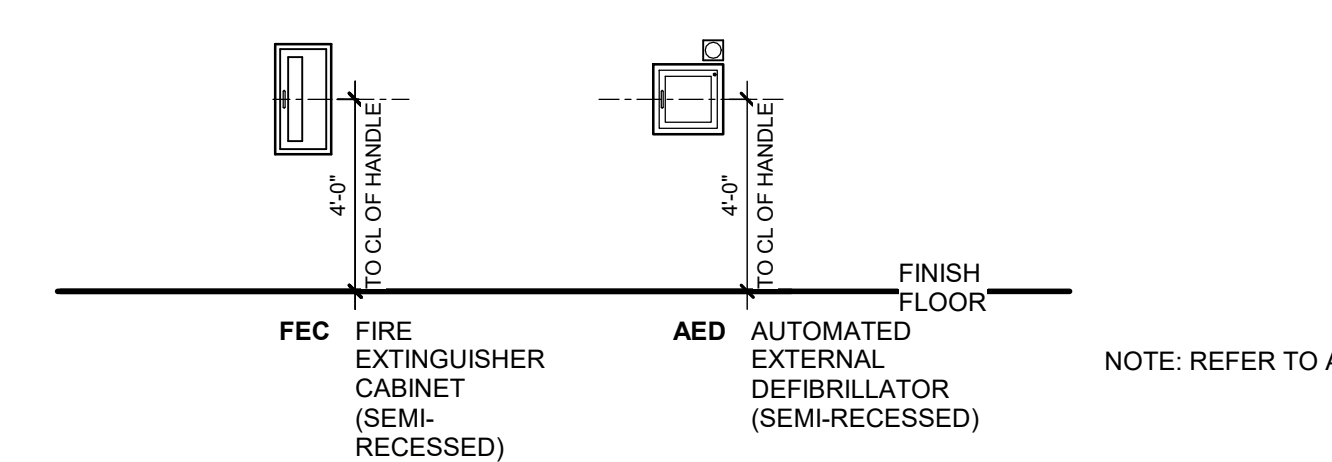
- DOOR REFER TO DOOR SCHEDULE
- LOUVER TYPE REFER TO DOOR SCHEDULE
- DOOR NUMBER REFER TO DOOR SCHEDULE
- PARTITION TYPE INDICATOR REFER TO G040 FOR PARTITION TYPES

FLOOR PLAN GENERAL NOTES

- GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND SCHEDULING CONSTRUCTION. OBTAINING WRITTEN APPROVAL FROM THE OWNER OF DEMOLITION SCHEDULE IS REQUIRED.
- FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO START OF WORK. NOTIFY OWNER IN WRITING OF ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION.
- PROTECT ALL EXISTING ITEMS TO REMAIN FROM DAMAGE. CONTRACTOR SHALL BEAR ALL COSTS FOR REPAIRING, REPLACING, REFINISHING ITEMS OF EXISTING (INCLUDING FIRE SMOKE RATING) IF DAMAGE DURING CONSTRUCTION.
- CONTRACTOR IS TO MAINTAIN EXISTING FIRE AND SMOKE RATING AT ALL TIMES. CONTRACTOR IS TO PATCH AND REPAIR ANY DAMAGES TO EXISTING CONDITIONS. REPAIRS MUST MEET OWNER'S SATISFACTION.
- CONTRACTOR IS TO ENSURE THAT DOOR, WINDOW AND/OR RATING INFORMATION, STENCILS AND LABELS ARE NOT PAINTED OVER OR COVERED. CONTRACTOR IS TO REPAIR AND REPLACE DAMAGED OR COVERED LABELS.
- PROVIDE, ERECT AND MAINTAIN TEMPORARY PARTITIONS, BARRIERS, GUARD RAILS AND OTHER SAFETY ITEMS AS REQUIRED BY REGULATORY AGENCIES, AS REQUIRED TO PROTECT OCCUPANTS OR AS NECESSARY TO PROTECT MATERIALS, SURFACES AND FINISHES.
- WHEN CUTTING INTO EXISTING WALLS, SLAB AND ROOF, CONTRACTOR SHALL TAKE EXTREME CARE AND CAUTION TO AVOID DAMAGING THE STRUCTURAL INTEGRITY OF THESE AREAS. CONTRACTOR SHALL DOCUMENT ALL WALL, ROOF CUTS AND SLAB CUTS WHERE REINFORCING MEMBERS ARE CUT. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, RESTORING AND MAINTAINING STRUCTURAL PERFORMANCE WHERE THE STRUCTURAL SYSTEM HAS BEEN COMPROMISED.
- CONTRACTOR SHALL VERIFY ALL UTILITIES (SHOWN OR NOT SHOWN ON CONSTRUCTION DOCUMENTS) THAT ARE TO REMAIN PRIOR TO DEMOLITION OR CUTTING INTO ANY WALL OR SLAB. PERMANENT PROCEDURES ARE TO BE MADE TO REROUTE OR BYPASS UTILITIES THAT ARE CLEARLY VISIBLE (WITHOUT DEMOLITION).
- WHERE SURFACE MOUNTED ITEMS ARE REMOVED FROM WALLS (SIGNAGE, RACKWAYS, EQUIPMENT, ETC) PATCH AND REPAIR WALLS AS REQUIRED TO MATCH EXISTING ADJACENT FINISHES.
- CONTRACTOR TO COMPLY WITH ALL ADA STANDARDS AND REQUIREMENTS.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ALL PERMITS AND COMPLY WITH ALL APPLICABLE ORDINANCES, REGULATIONS AND CODES IN THE REMOVAL AND DISPOSAL OF MATERIALS. DISPOSAL OF ALL RUBBISH AND DEBRIS IS TO BE IN AN ENVIRONMENTALLY SAFE MANNER IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODES AND JURISDICTIONS.
- HATCHED AREAS INDICATE AREAS AND ITEMS NOT IN SCOPE OF WORK. NIC. COORDINATE WITH ENGINEERING DRAWINGS FOR FULL EXTENT OF SCOPE.

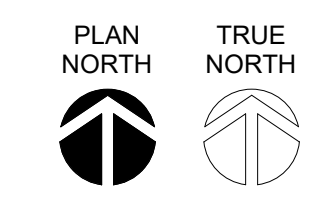


ENLARGED FLOOR PLAN LEVEL 02
SCALE: 1/4" = 1'-0"



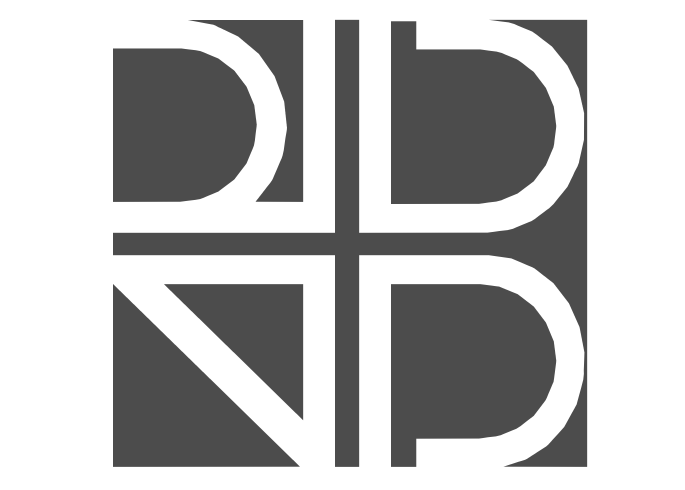
MOUNTING HEIGHTS
SCALE: 1/4" = 1'-0"

FLOOR PLAN LEVEL 02
SCALE: 1/8" = 1'-0"



REFLECTED CEILING KEYNOTES (NOT ALL NOTES APPLY TO SHEET) KEYNOTE NUMBER

- 1 PROVIDE 24"x24" CEILING ACCESS PANELS AS REQUIRED PER OWNER, REFER TO OWNER FOR LOCATIONS
- 2 THE HATCHED AREA INDICATES AREAS NOT IN SCOPE OR WORK, NIC, OR AREA
- 3 OPERABLE PARTITION WALL - BASIS OF DESIGN BY HILFCOR UNISPAN - FURNISHED AND INSTALLED BY CONTRACTOR



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BID DOCUMENTS
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DATE	SUBMISSION / REVISION	NO.

REFLECTED CEILING
PLAN LEVEL 02

SCALE: AS INDICATED
DRAWN BY: MA/AC
CHECK BY: AC/MB
DATE: May 30, 2018
PROJECT NUMBER: 15012-0020

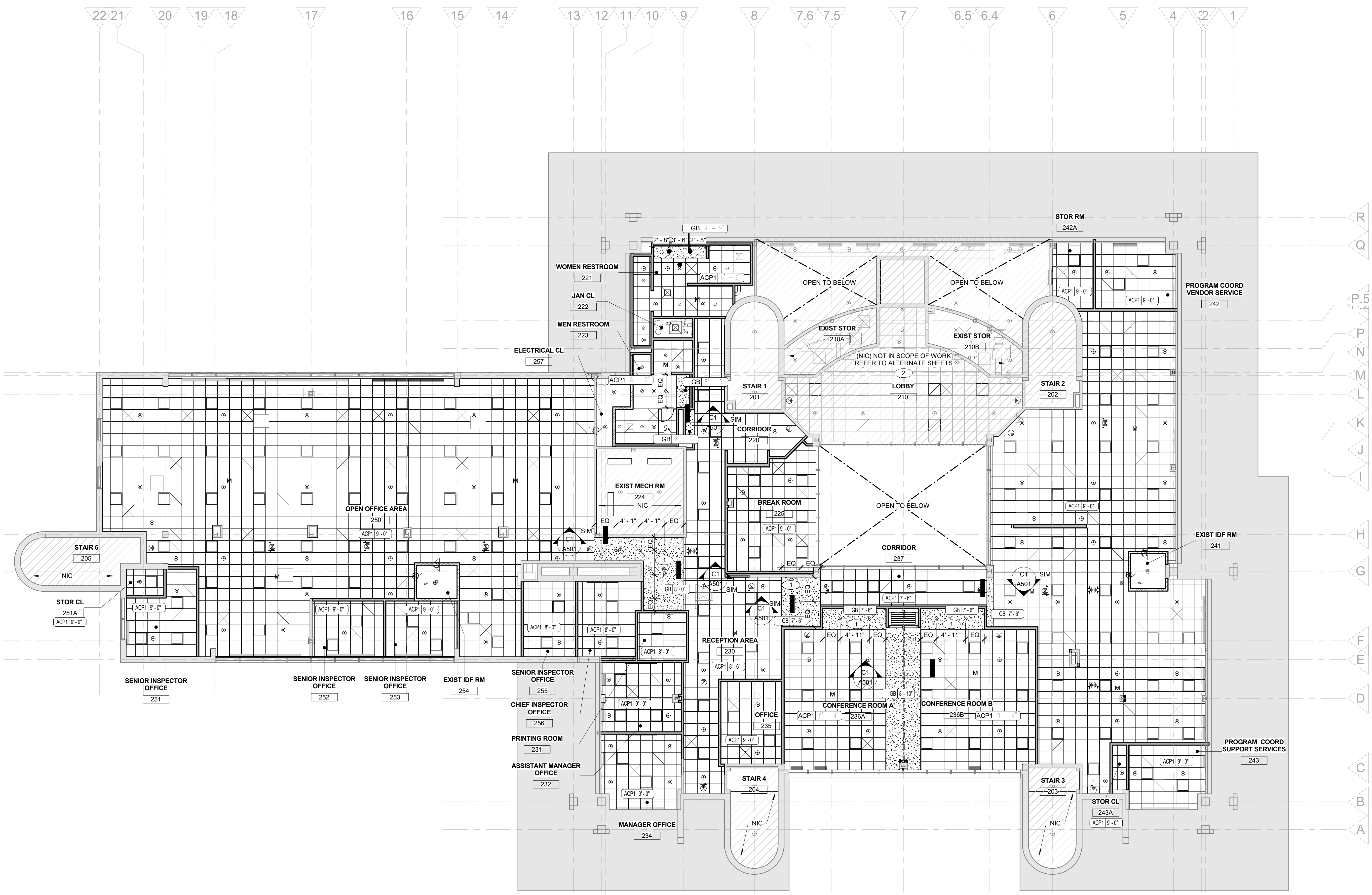
A222

REFLECTED CEILING LEGEND

- 2x2 RECESSED DIRECT / INDIRECT LED TROFFER
- 4 SUSPENDED DIRECT / INDIRECT LED LINEAR PENDANT
- 8 SUSPENDED DIRECT / INDIRECT LED LINEAR PENDANT
- 4 RECESSED LINEAR LED DIRECT WALL WASH FIXTURE
- SPRINKLER HEAD
- WIRELESS ACCESS POINT
- WALL MOUNTED EXIT SIGN LIGHT FIXTURE
- CEILING MOUNTED EXIT SIGN LIGHT
- WALL MOUNTED STROBE LIGHT
- WALL MOUNTED HORN STROBE LIGHT
- HVAC EXHAUST FAN
- HVAC SUPPLY DIFFUSER
- HVAC RETURN AIR DIFFUSER
- 2x2 ACCESS PANEL
- 2x2 CEILING GRID (ACP TYPE)
- GYP: BD CEILING (GB TYPE)

REFLECTED CEILING GENERAL NOTES

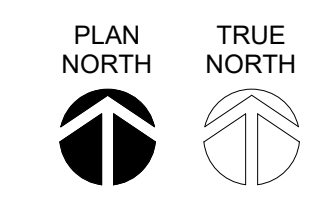
- CONTRACTOR TO PROTECT EXISTING MECHANICAL UNITS AND DUCTWORK TO REMAIN DURING EXTENT OF CONSTRUCTION. COORDINATE WITH ENGINEER DRAWINGS AND SPECIFICATION MANUAL.
- EXISTING CEILING TO REMAIN. GC TO REPLACE CEILING TILES THAT ARE DAMAGED DURING CONSTRUCTION. MATCH EXISTING TILE.
- SPRINKLERS, EXIT SIGNS, AND SPEAKERS SHALL BE LOCATED IN ALIGNMENT W/ LIGHT FIXTURES AND OTHER CEILING ELEMENTS. WHERE THERE ARE NO LIGHT FIXTURES, AND/OR SPRINKLERS SHALL BE CENTERED IN CEILING TILE. SPRINKLERS SHALL BE FULLY CONCEALED WITH WHITE CAPS. CONTRACTOR TO COORDINATE.
- GC TO COORDINATE THE ALIGNMENT OF THE CEILING GRID AND PARTITIONS.
- ACCESS PANELS SHALL BE IDENTIFIED TO ARCHITECT PRIOR TO INSTALLATION.
- COORDINATED WITH MECHANICAL UNITS, FIRE SPRINKLERS, STRUCTURAL BEAMS, AND LIGHT FIXTURES AGAINST EXISTING CONDITIONS. VERIFY THAT DIMENSIONS ARE CONSISTENT WITH REQUIREMENTS INDICATED IN THE DOCUMENTS. REFER ANY DIMENSIONAL INCONSISTENCIES TO THE ARCHITECT FOR RESOLUTION PRIOR TO THE START OF PARTITION CONSTRUCTION.
- GC TO COORDINATE SECURITY ITEMS WITH OWNER.

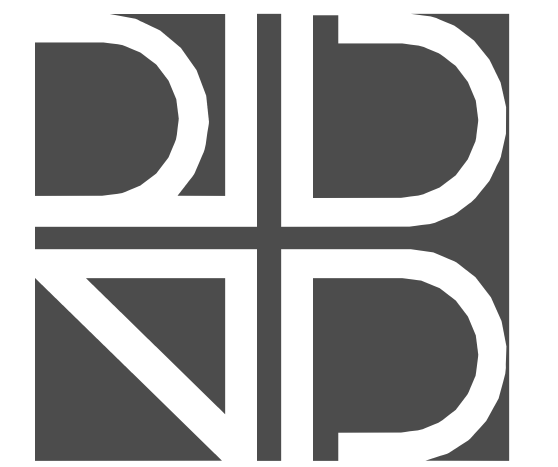


A7
A222

REFLECTED CEILING PLAN LEVEL 02

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





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DATE SUBMISSION / REVISION NO.

RESTROOMS
ENLARGED PLANS
AND ELEVATIONS

SCALE: AS INDICATED

DRAWN BY: MA/AC

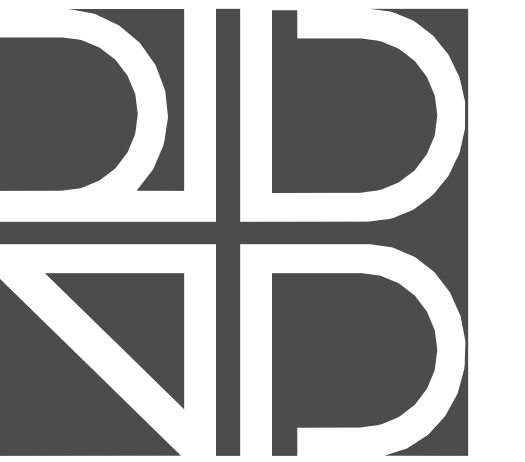
CHECK BY: AC/MB

DATE: May 30, 2018

PROJECT NUMBER: 15012-0020

A401





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BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION / REVISION	NO.

RESTROOMS
ELEVATIONS AND
DETAILS

SCALE: AS INDICATED

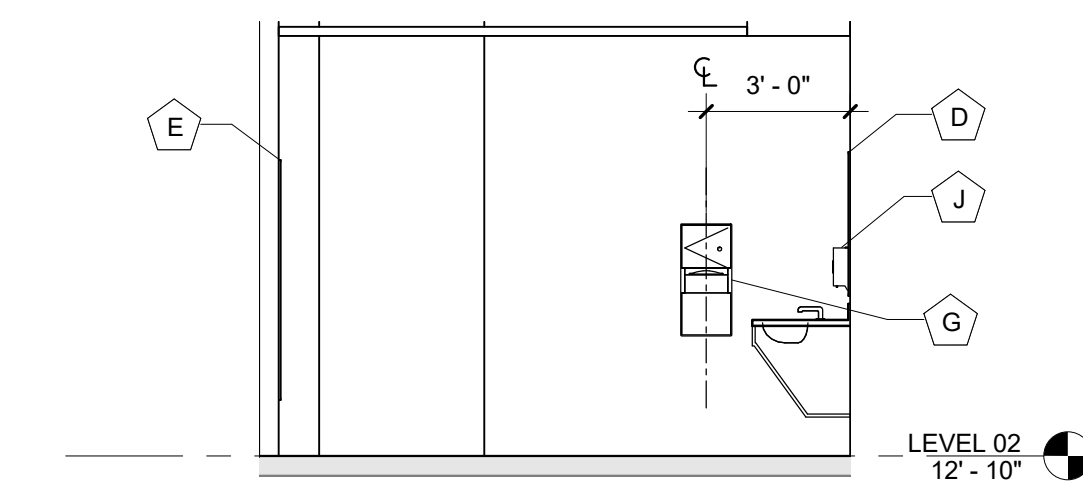
DRAWN BY: MA/AC

CHECK BY: AC/MB

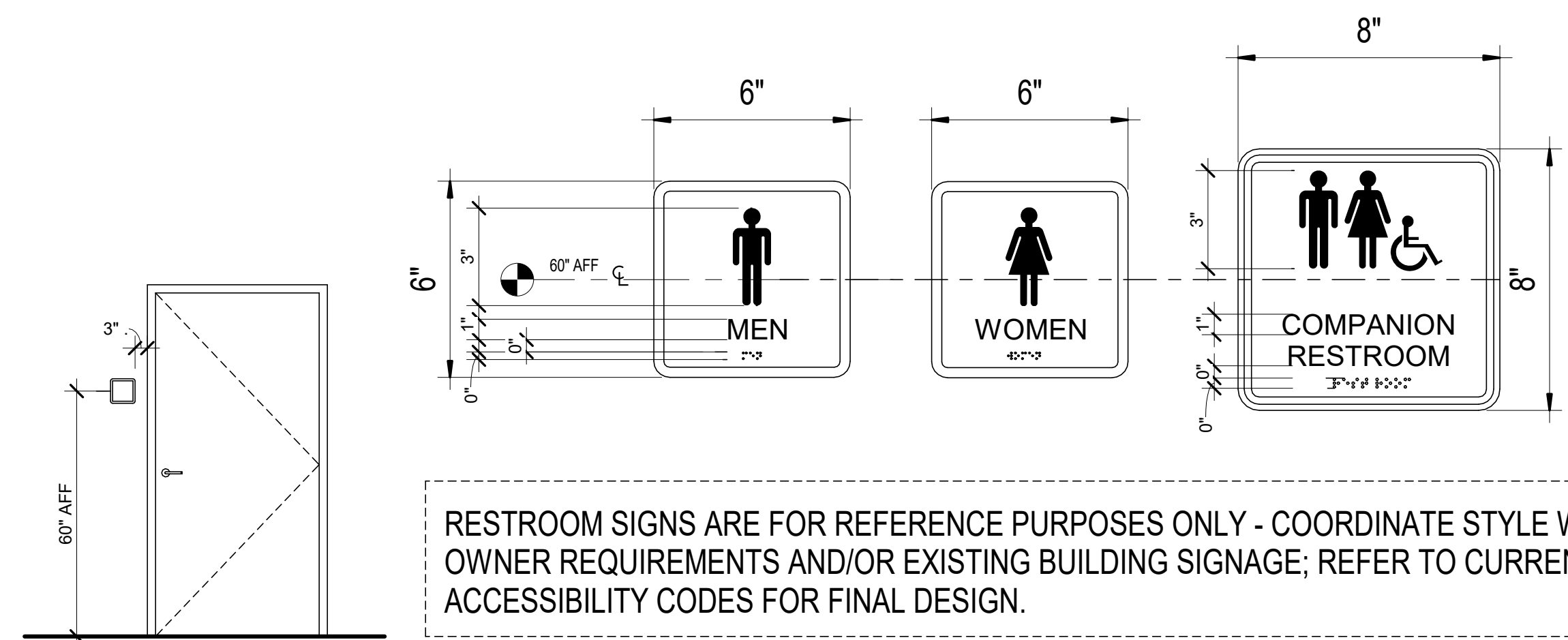
DATE: May 30, 2018

PROJECT NUMBER: 15012-0020

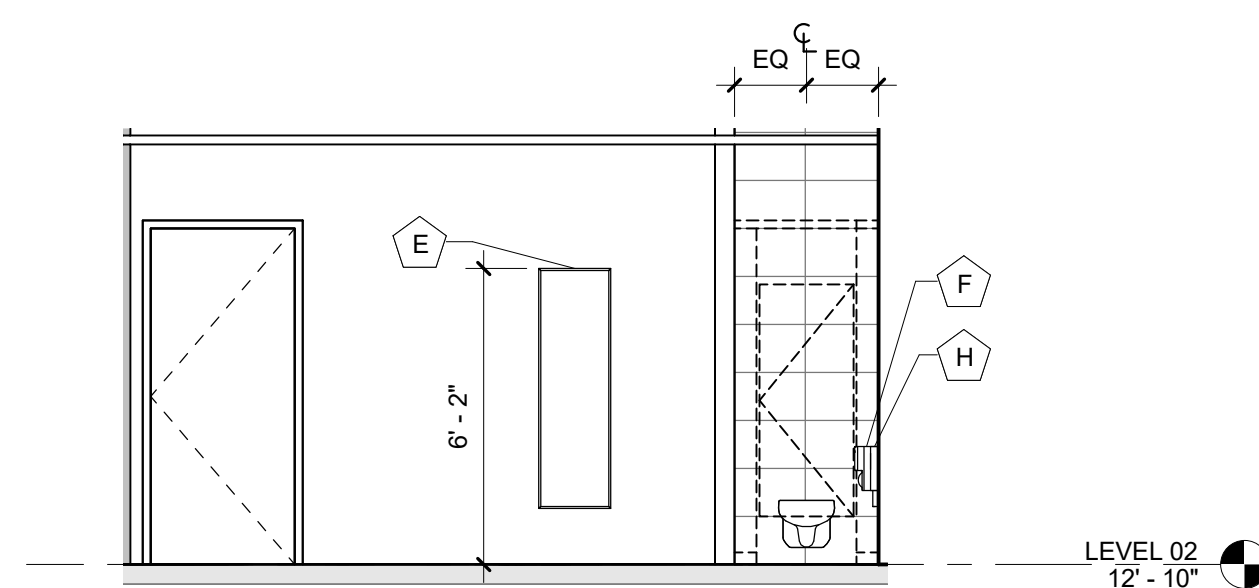
A402



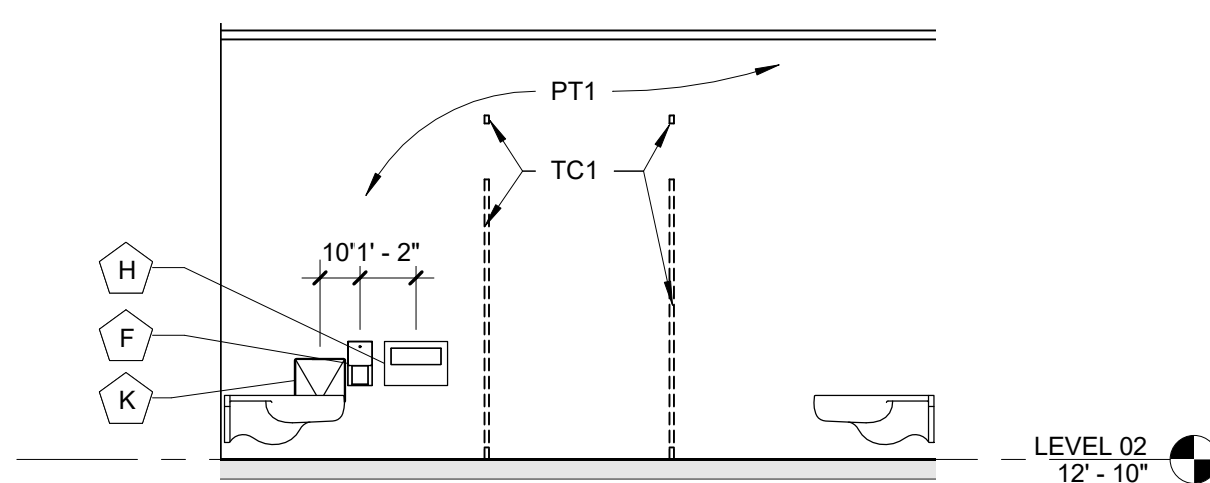
E1
A402
INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



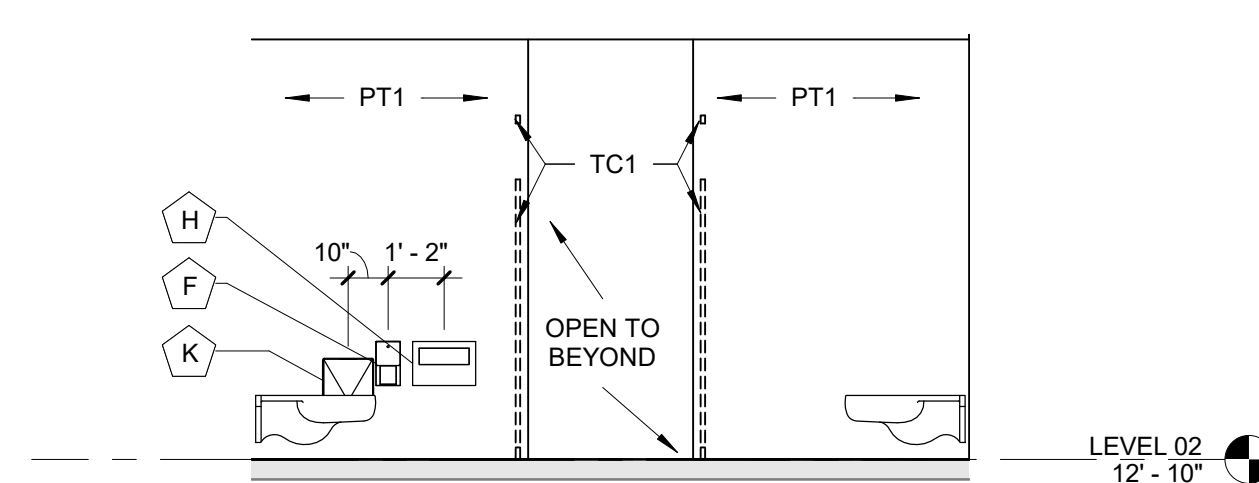
E7
A402
ACCESSIBILITY SIGNAGE
SCALE: 3" = 1'-0"



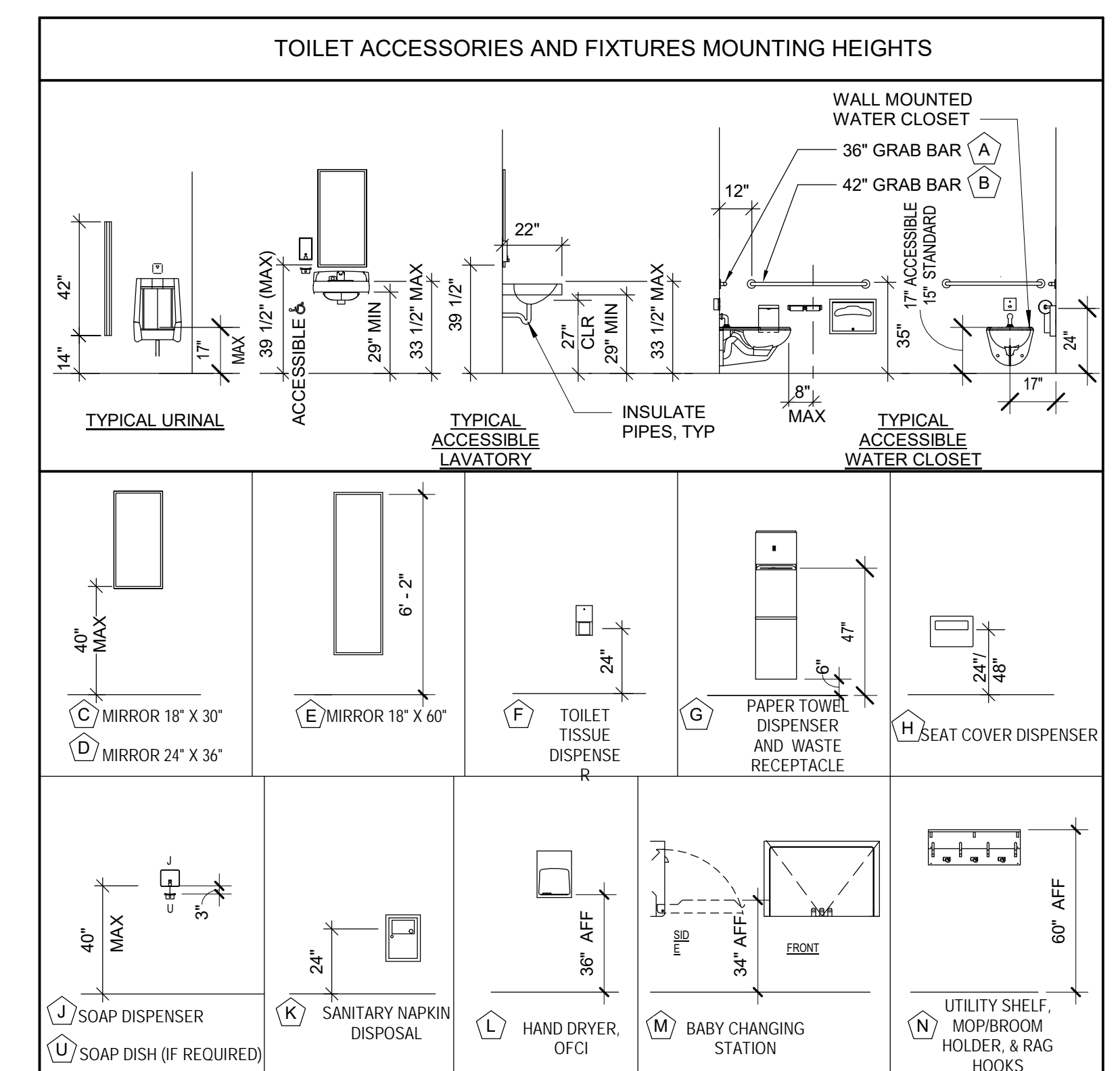
C1
A402
INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



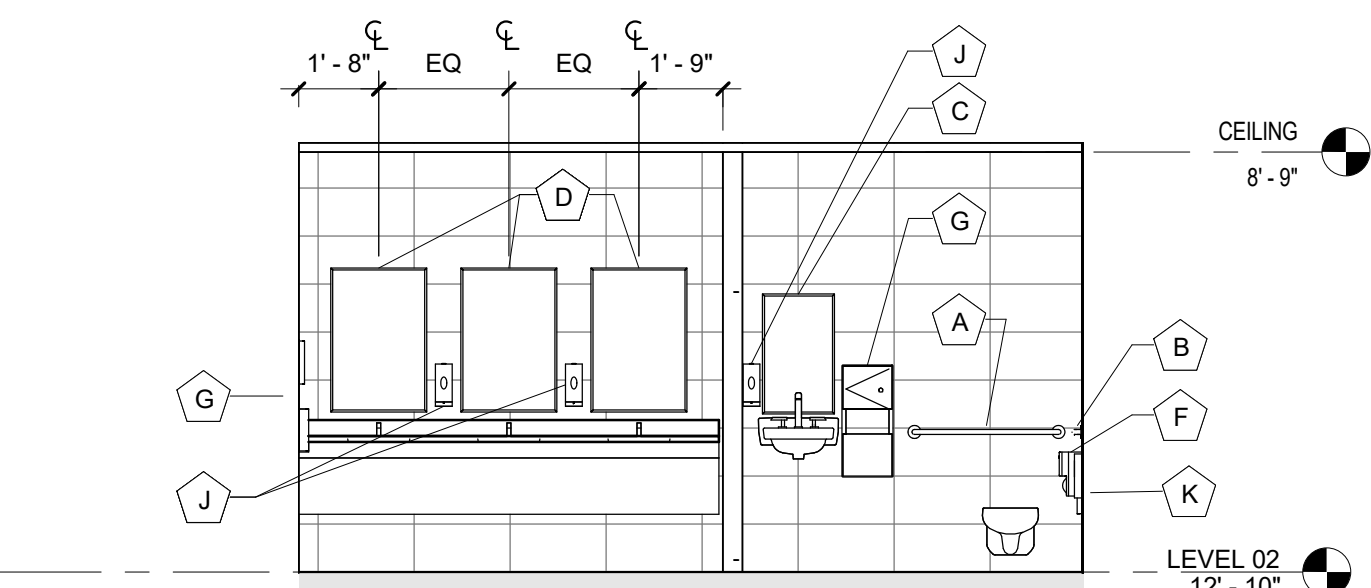
C3
A402
INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



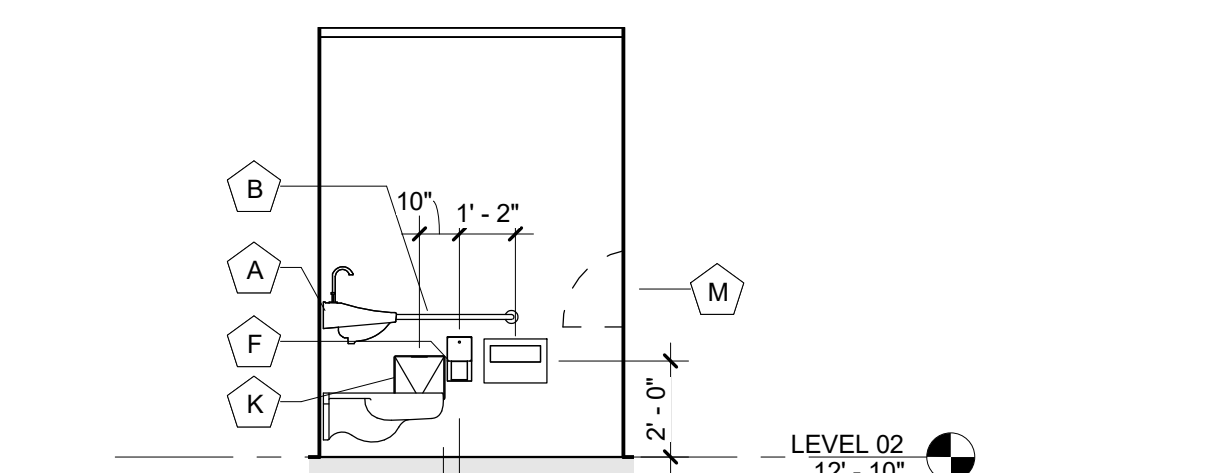
C5
A402
INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



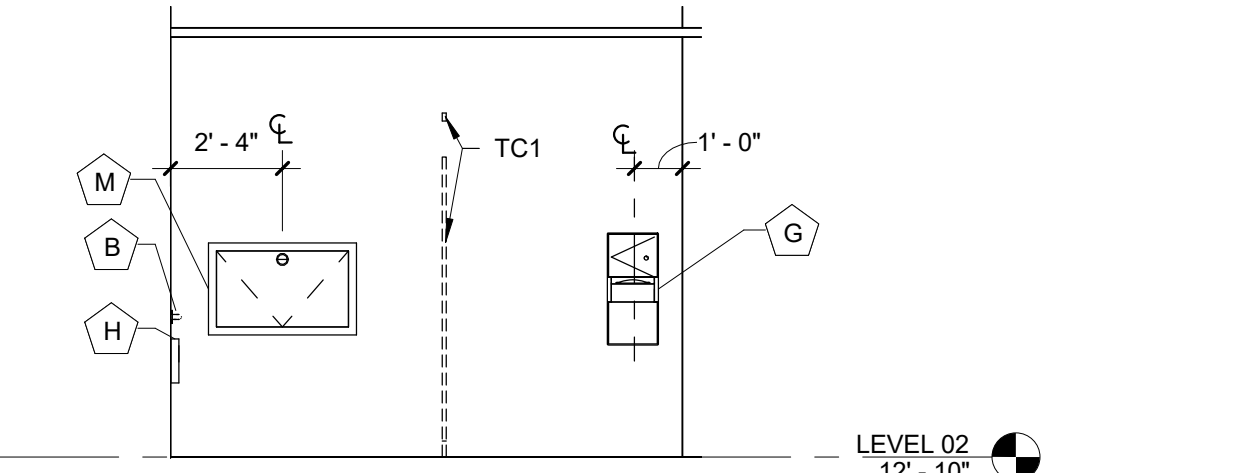
MARK	DESCRIPTION	MODEL	MANUFACTURER
A	36" STRAIGHT GRAB BAR	B-5806-36W	BOBRICK WASHROOM EQUIPMENT, INC.
B	42" STRAIGHT GRAB BAR	B-5806-42W	BOBRICK WASHROOM EQUIPMENT, INC.
C	CHANNEL FRAME MIRROR 18 X 30	B-165 1830	BOBRICK WASHROOM EQUIPMENT, INC.
D	CHANNEL FRAME MIRROR 24 X 36	B-165 2436	BOBRICK WASHROOM EQUIPMENT, INC.
E	CHANNEL FRAME MIRROR 24 X 60	B-165 2460	BOBRICK WASHROOM EQUIPMENT, INC.
F	RECESSED MULTITROLL TOILET TISSUE DISPENSER	B-4388	BOBRICK WASHROOM EQUIPMENT, INC.
G	RECESSED PAPER TOWEL DISPENSER AND WASTE RECEPTACLE	B-4369	BOBRICK WASHROOM EQUIPMENT, INC.
H	SURFACE MOUNTED SEAT COVER DISPENSER	B-4221	BOBRICK WASHROOM EQUIPMENT, INC.
J	SURFACE MOUNTED SOAP DISPENSER	B-2013	BOBRICK WASHROOM EQUIPMENT, INC.
K	RECESSED SANITARY NAPKIN DISPOSAL	B-4353	BOBRICK WASHROOM EQUIPMENT, INC.
M	HORIZONTAL RECESSED BABY CHANGING STATION - GREY INTERIOR	KB110-SSRE	BOBRICK WASHROOM EQUIPMENT, INC.
N	UTILITY SHELF WITH MOPBROOM HOLDERS AND RAG HOOKS	B-239	BOBRICK WASHROOM EQUIPMENT, INC.



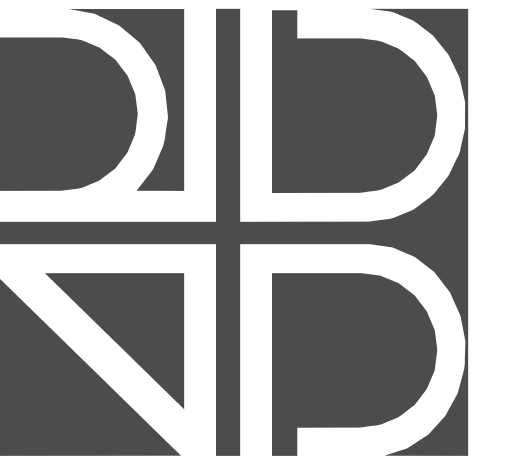
A1
A402
INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



A3
A402
INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



A5
A402
INTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



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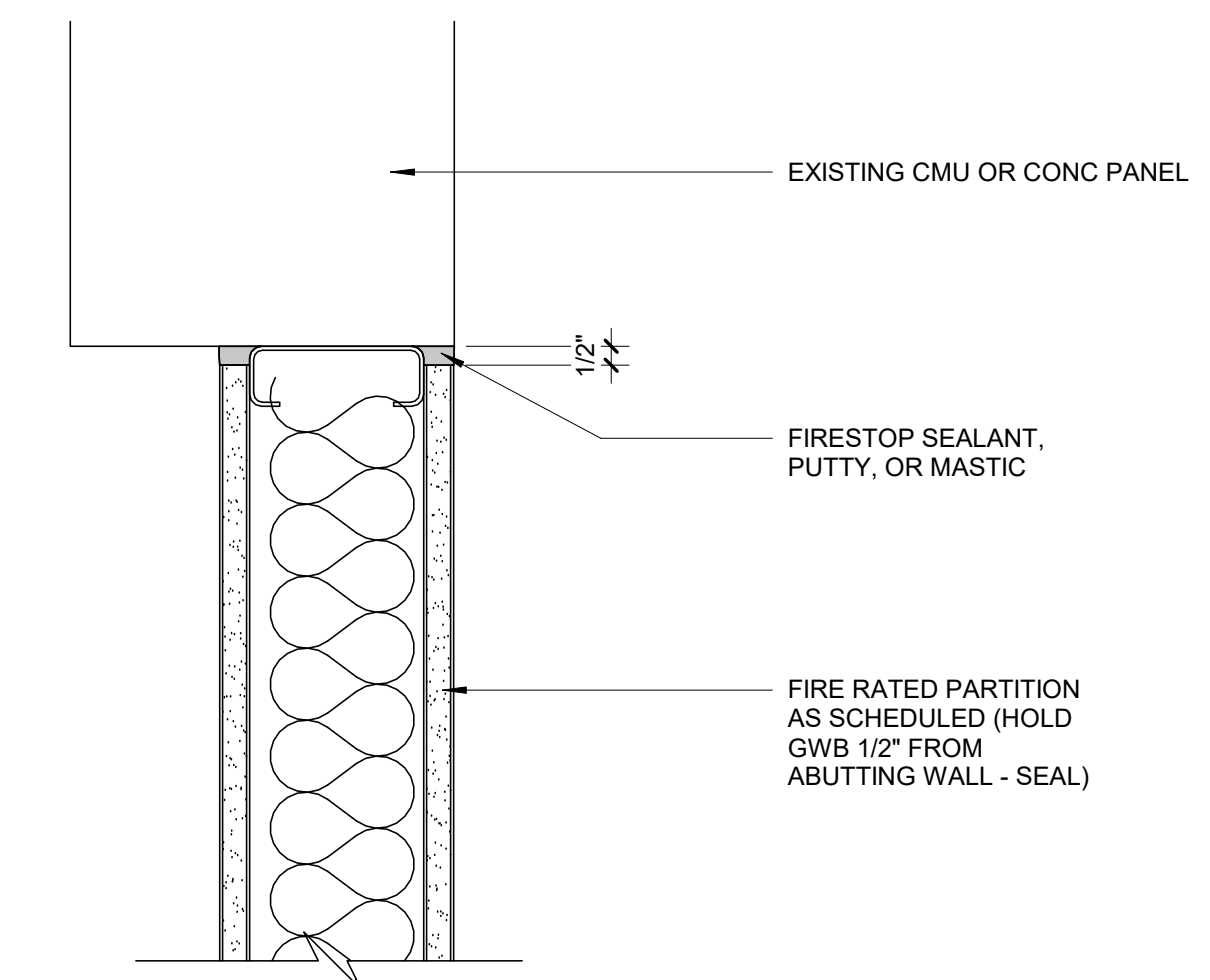
BID DOCUMENTS
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DATE	SUBMISSION / REVISION	NO.

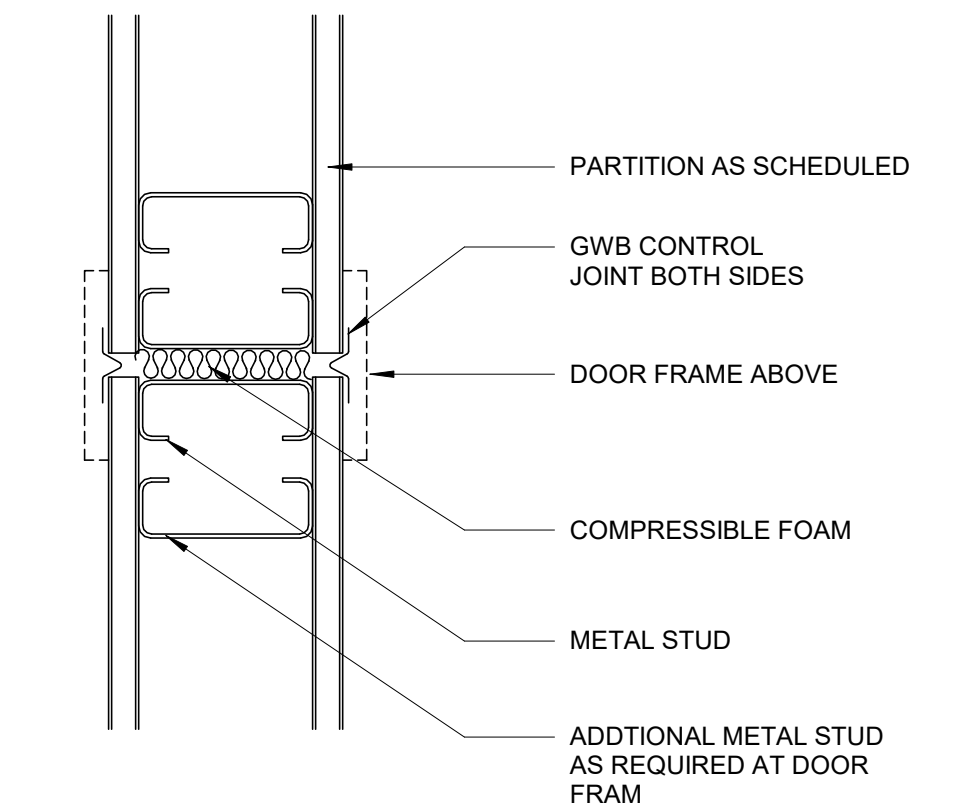
**WALL AND CEILING
DETAILS**

SCALE: AS INDICATED
DRAWN BY: MA/AC
CHECK BY: AC/MB
DATE: May 30, 2018
PROJECT NUMBER: 15012-0020

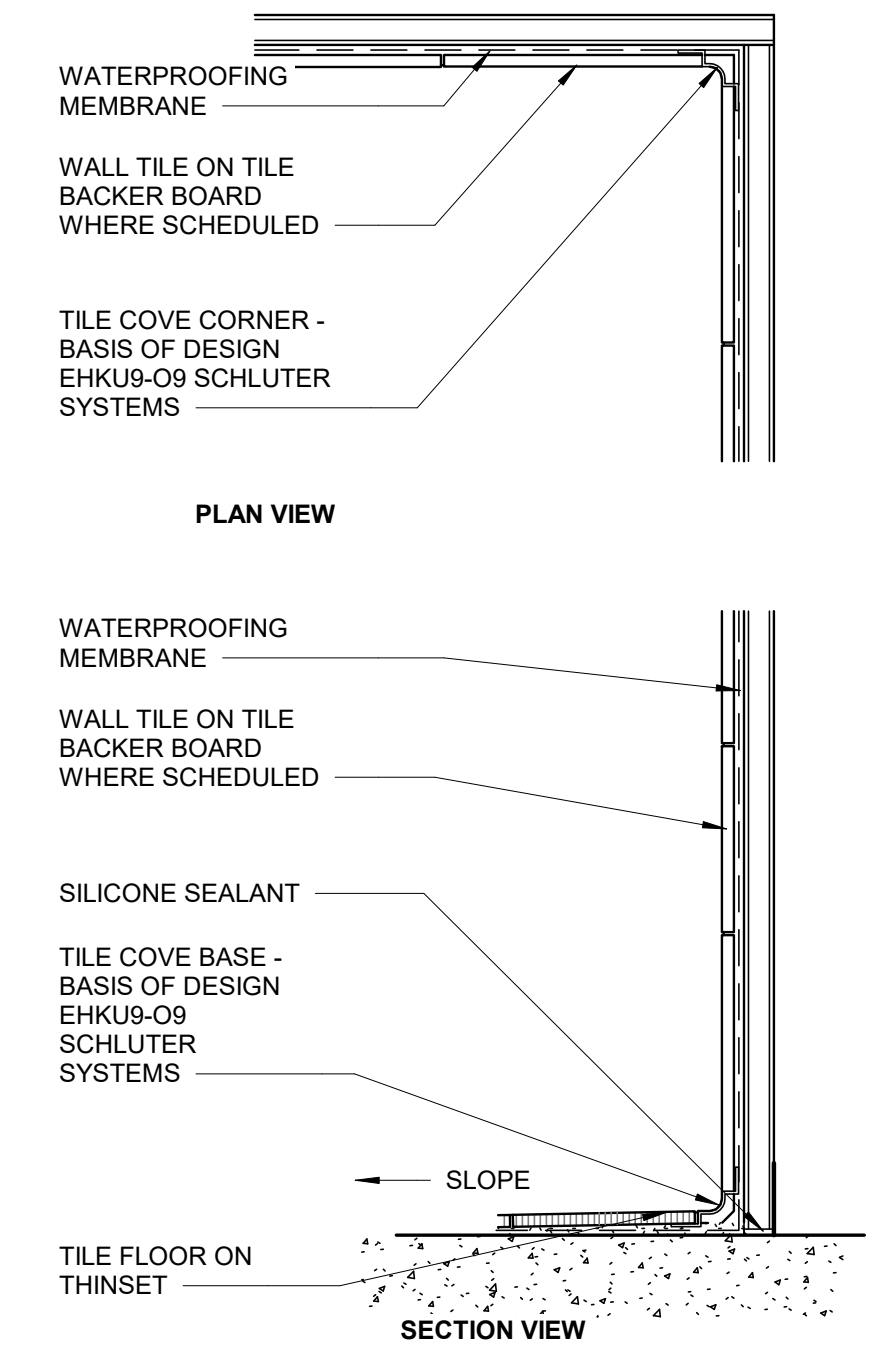
A501



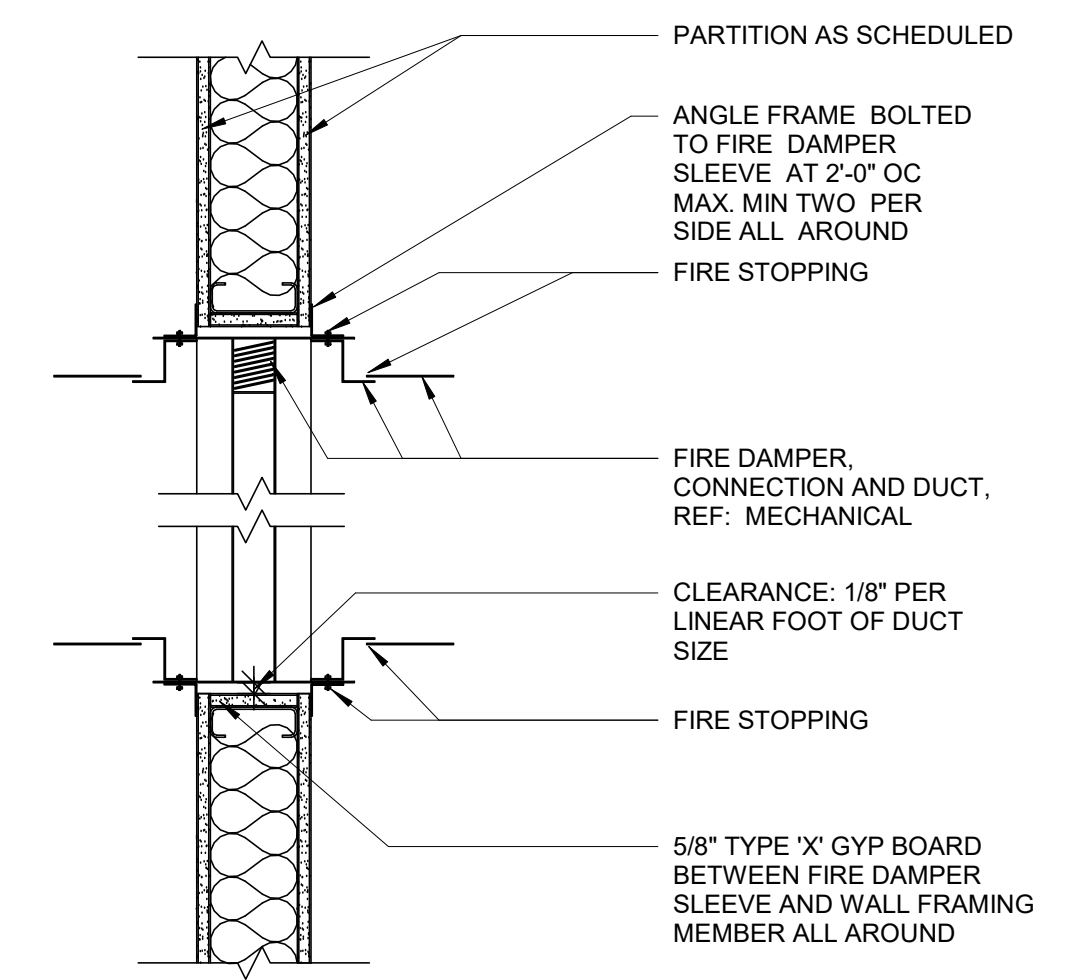
G7
A501
PLAN DETAIL AT FIRE RATED PARTITION
SCALE: 3" = 1'-0"



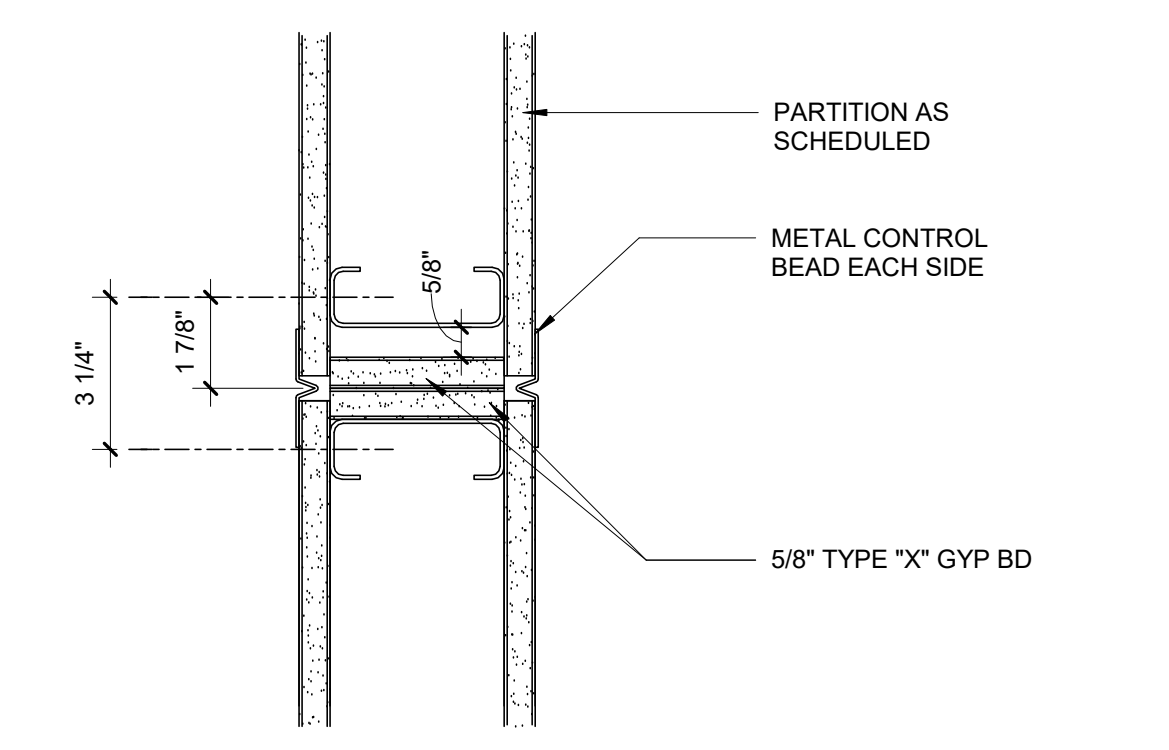
G9
A501
CONTROL JOINT GYP BOARD WALL
SCALE: 3" = 1'-0"



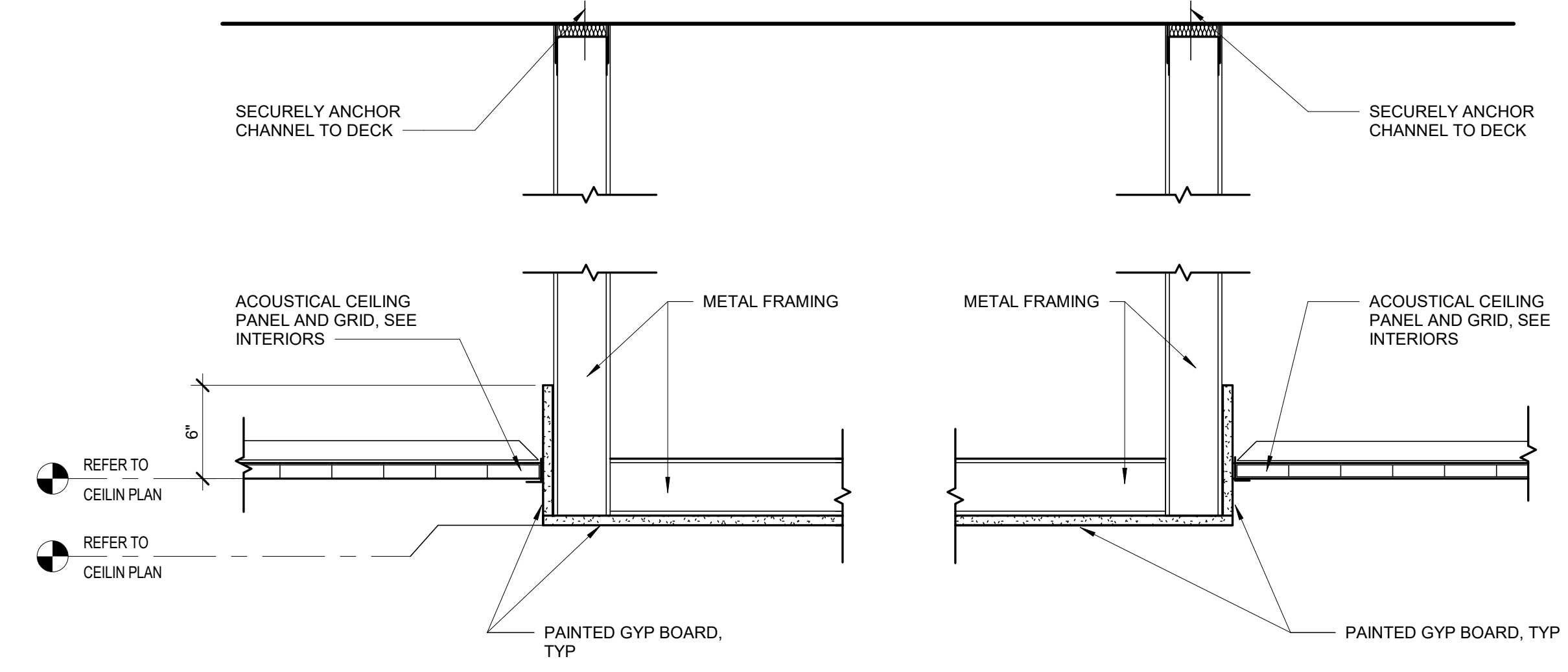
E5
A501
TILE DETAIL AT RESTROOM WALL
SCALE: 3" = 1'-0"



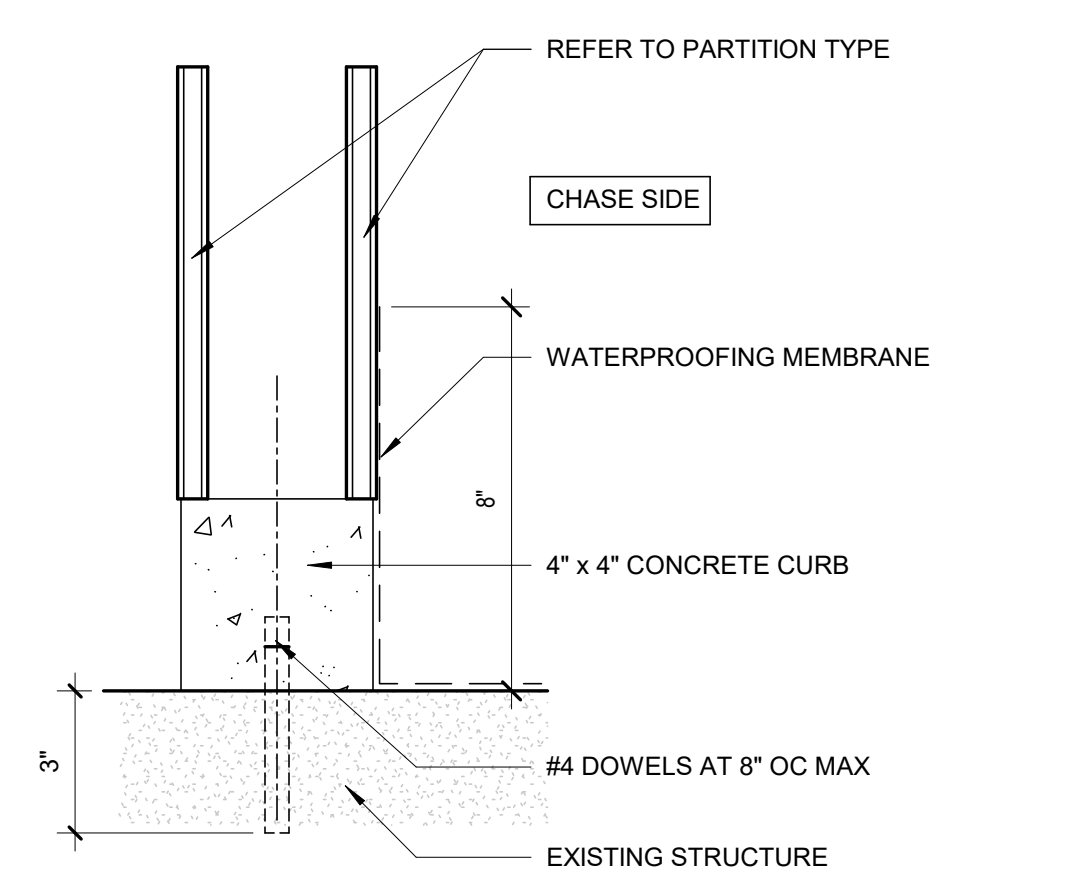
E7
A501
FIRE DAMPER AT MTL STUD WALL
SCALE: 1 1/2" = 1'-0"



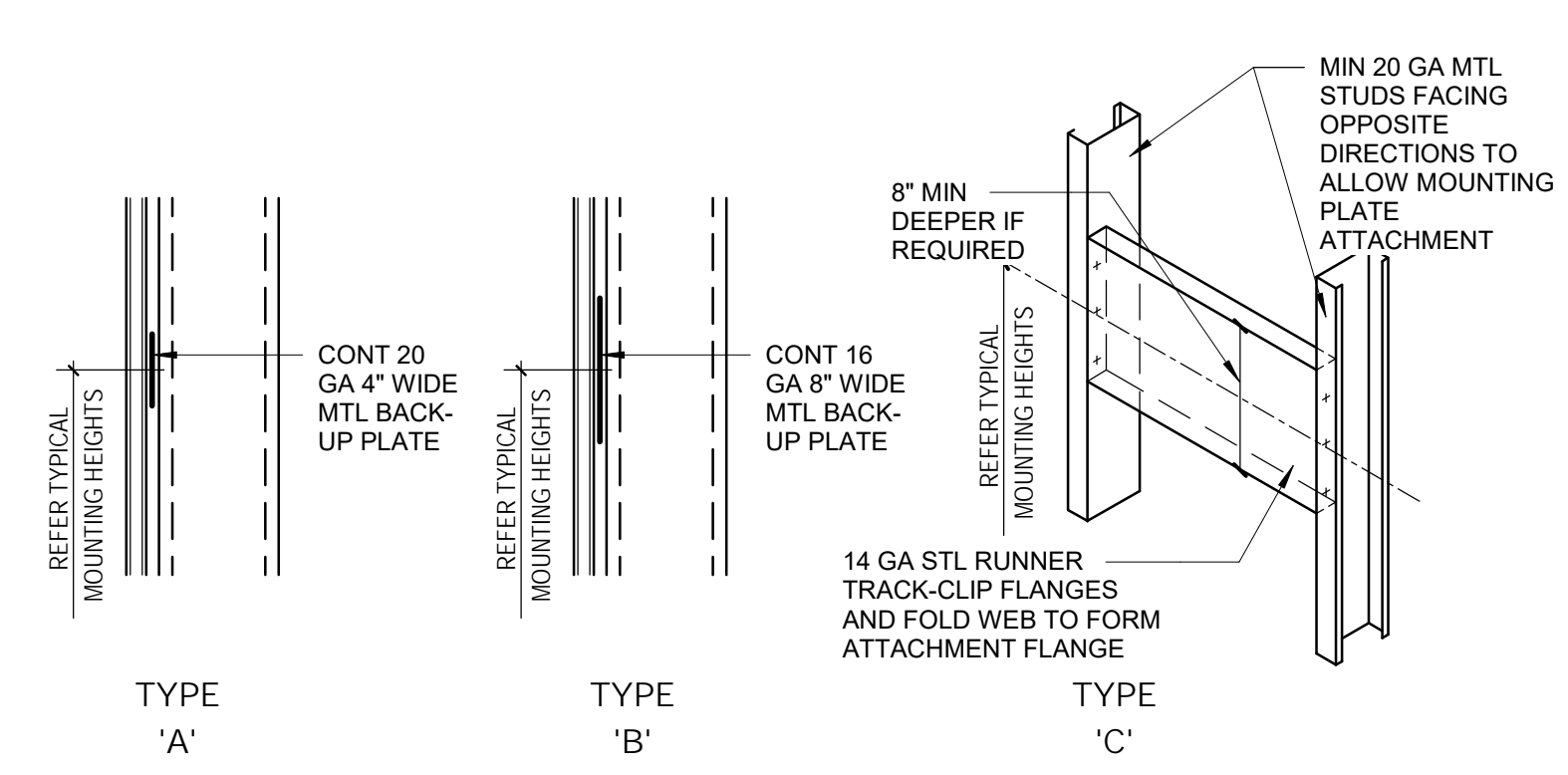
E9
A501
CONTROL JOINT AT FIRE RATED WALL
SCALE: 3" = 1'-0"



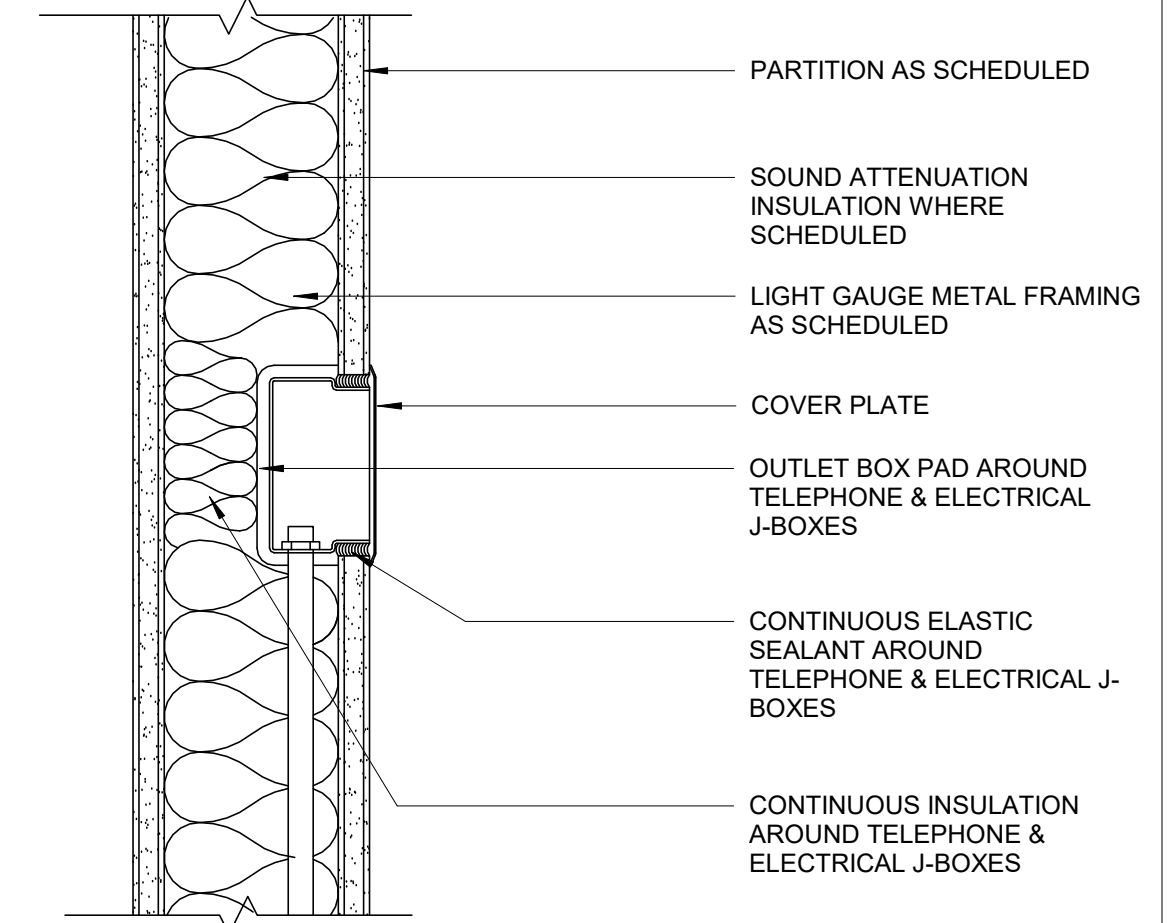
C1
A501
CEILING BULKHEAD DETAIL
SCALE: 1 1/2" = 1'-0"



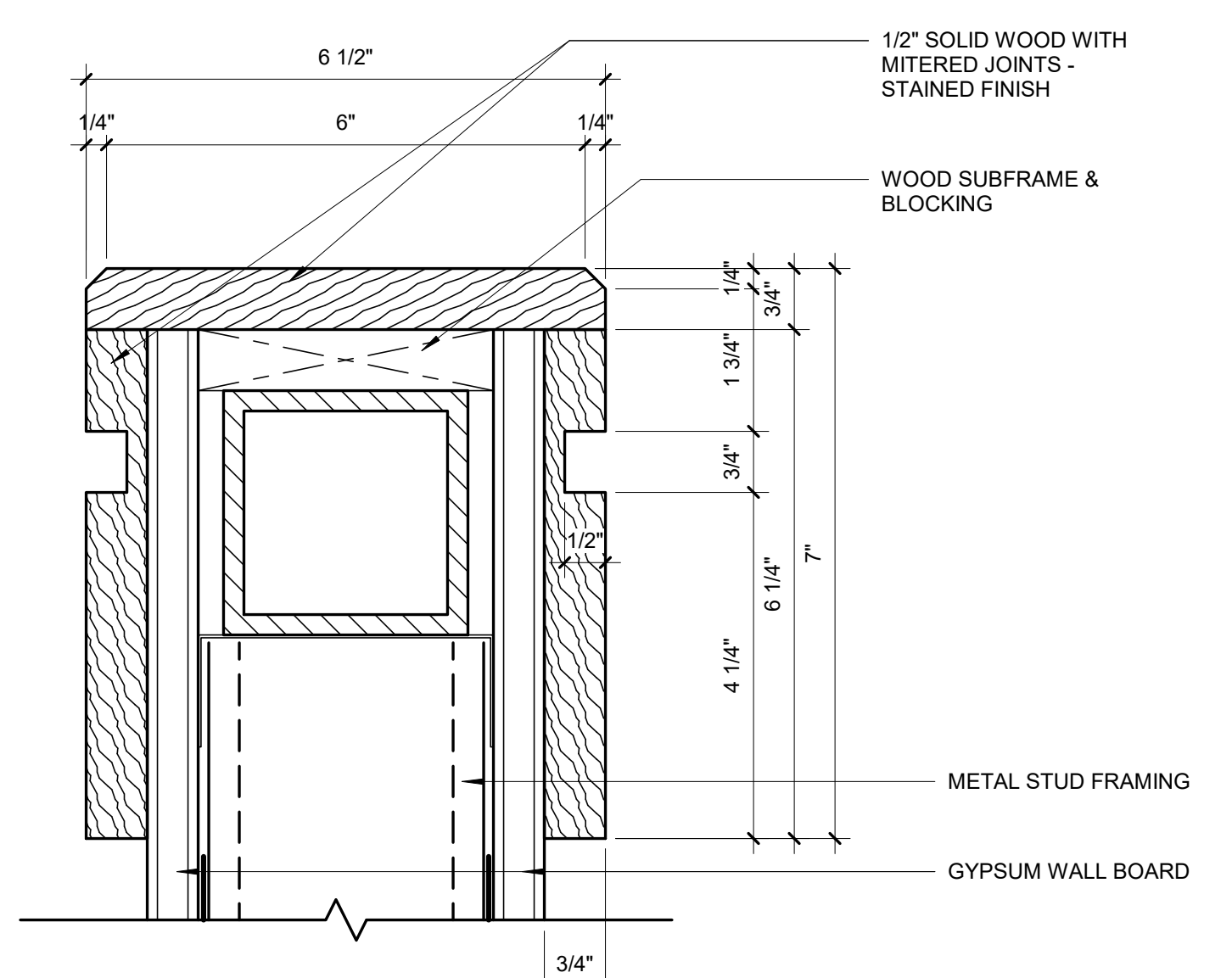
C5
A501
CONCRETE CURB DETAIL
SCALE: 3" = 1'-0"



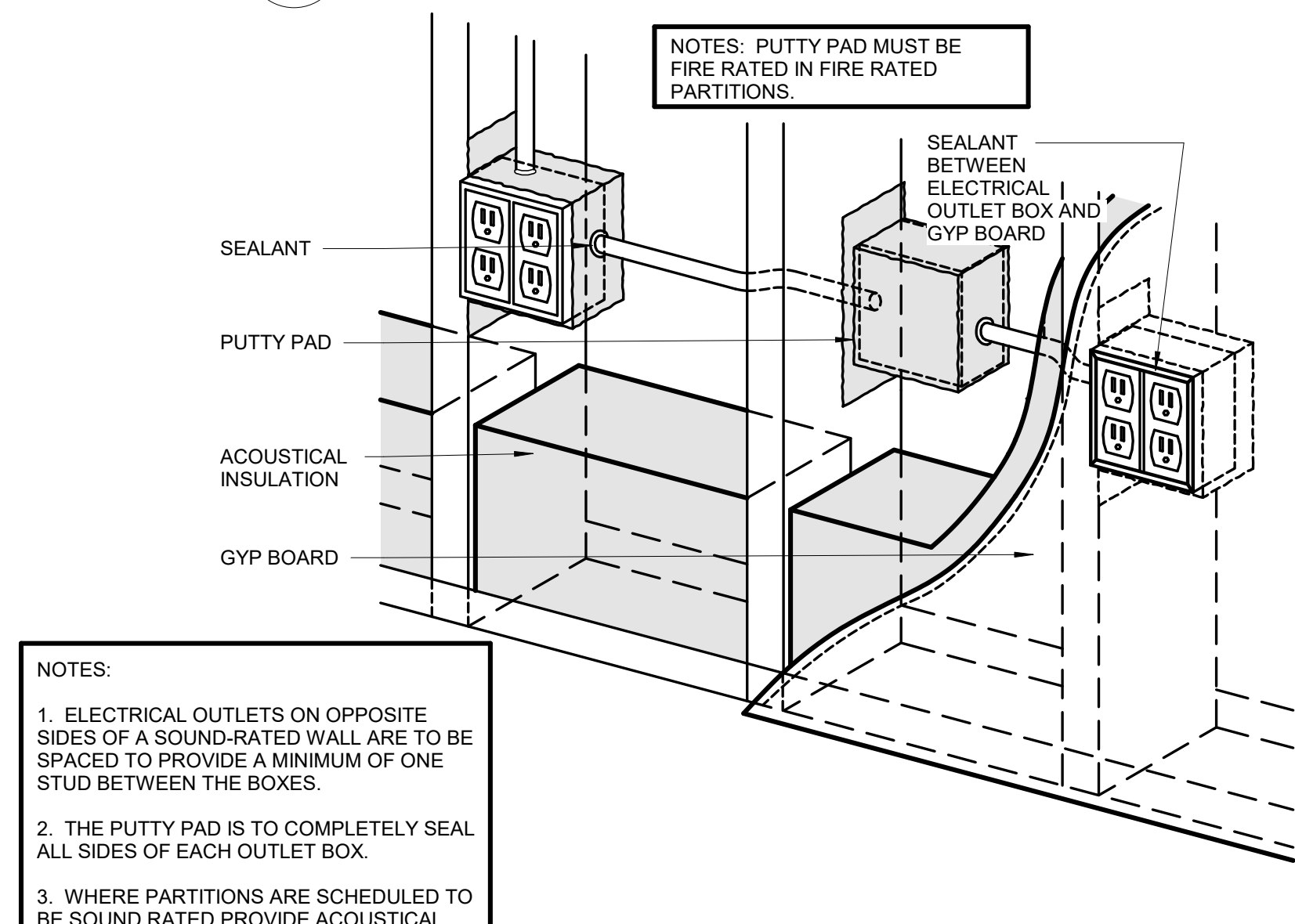
C7
A501
EQUIPMENT MOUNTING DETAILS
SCALE: 1/4" = 1'-0"



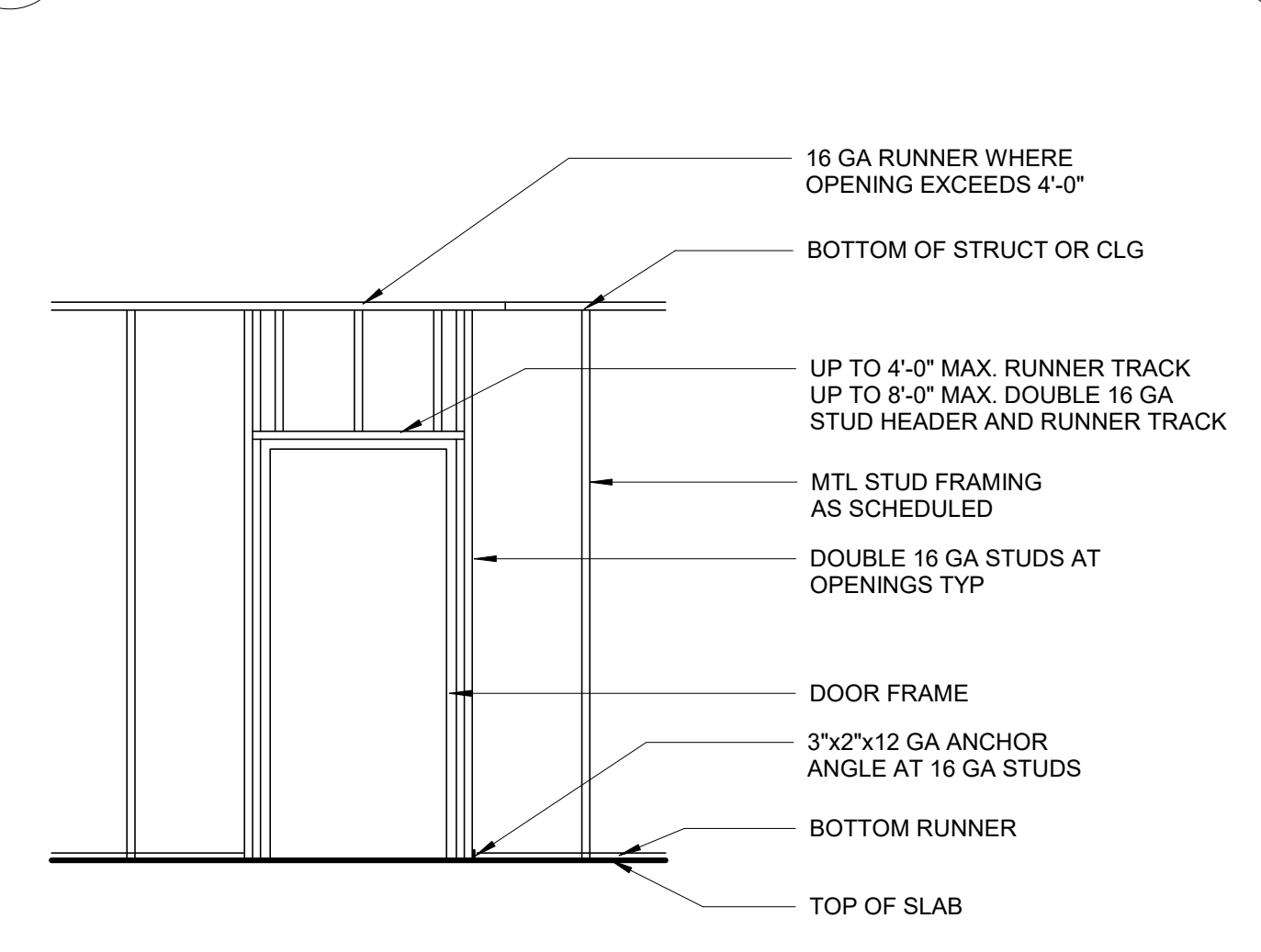
C9
A501
GYP BOARD PARTITION
SCALE: 3" = 1'-0"



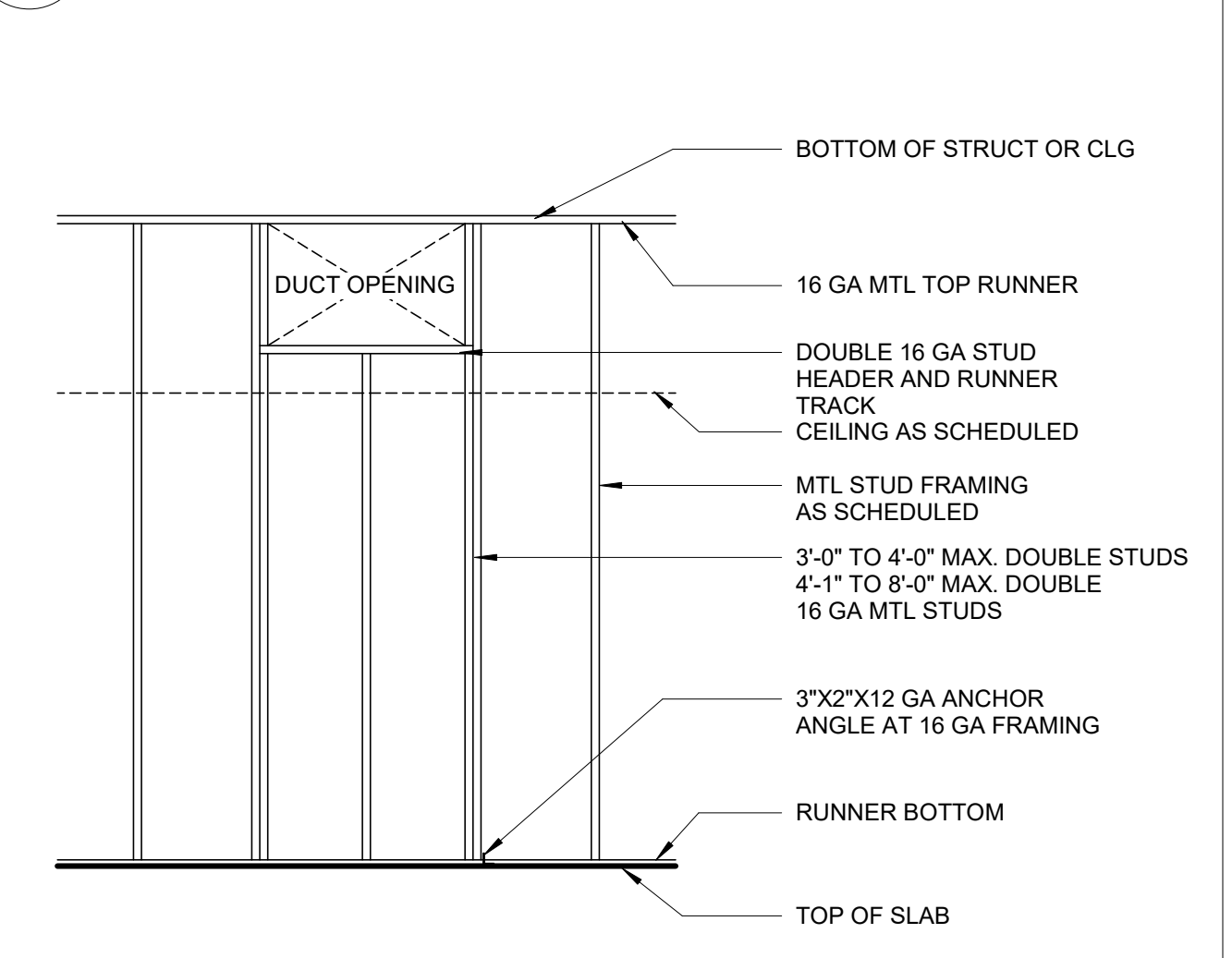
1
A501
WALL CAP DETAIL
SCALE: 6" = 1'-0"



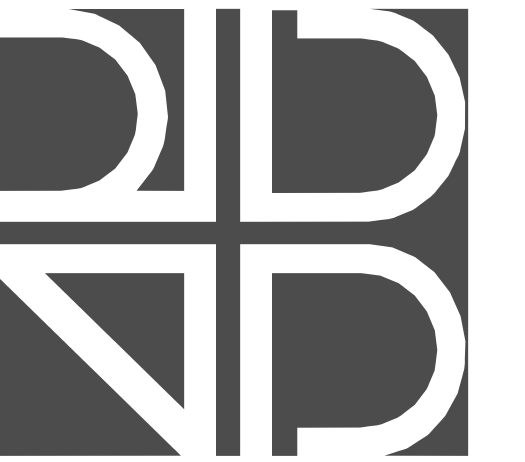
A5
A501
SOUND ATTENUATION DETAIL
SCALE: 1 1/2" = 1'-0"



A7
A501
METAL STUD WALL AT DOOR OPNG
SCALE: 1/2" = 1'-0"



A9
A501
METAL STUD WALL AT DUCT OPNG
SCALE: 1/2" = 1'-0"



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WALL, FLOOR AND
RESTROOMS DETAILS

SCALE: AS INDICATED

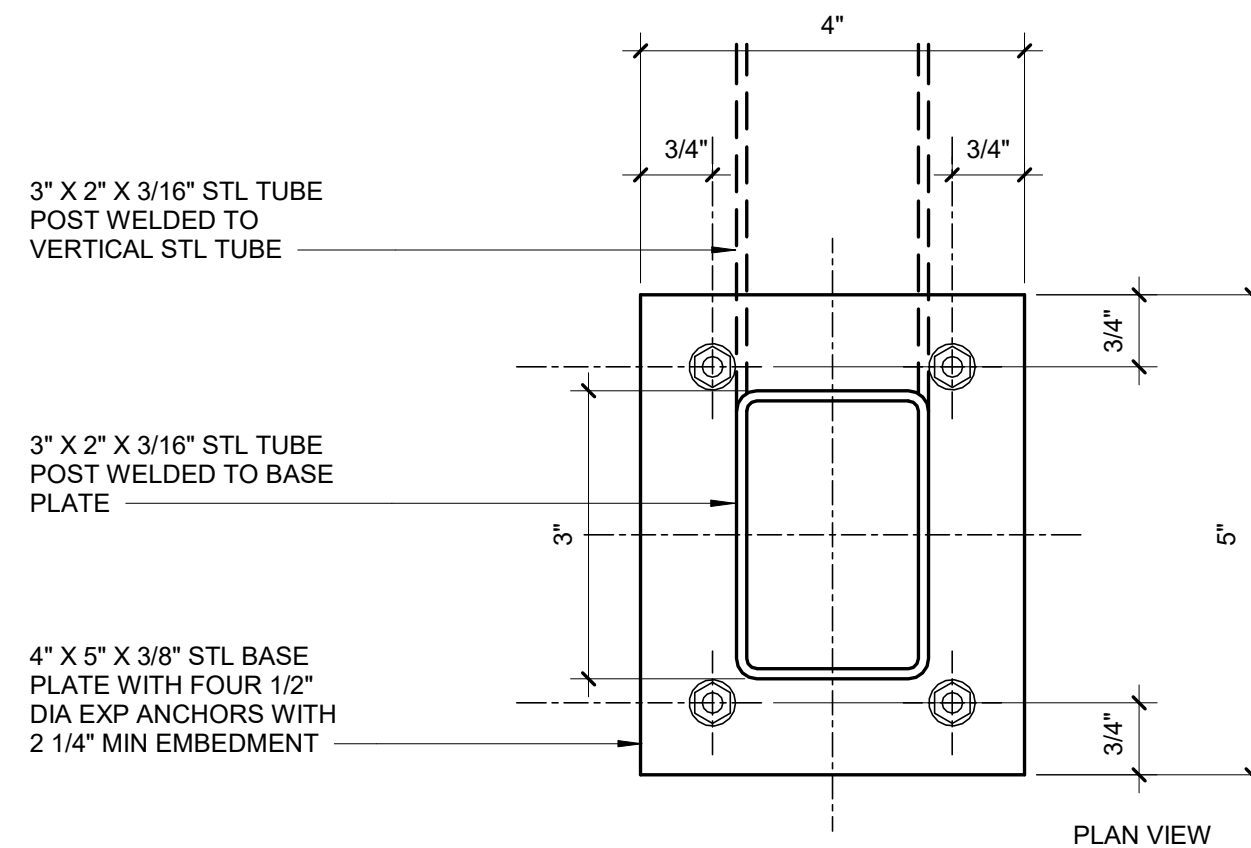
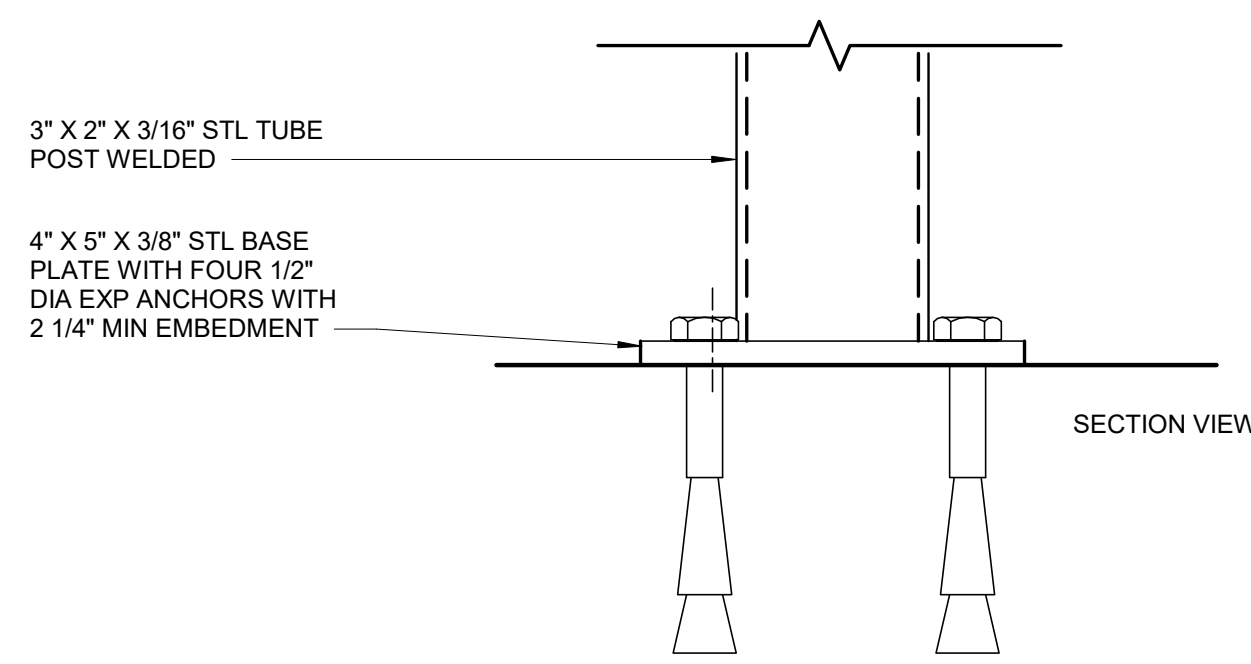
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CHECK BY: AC/MB

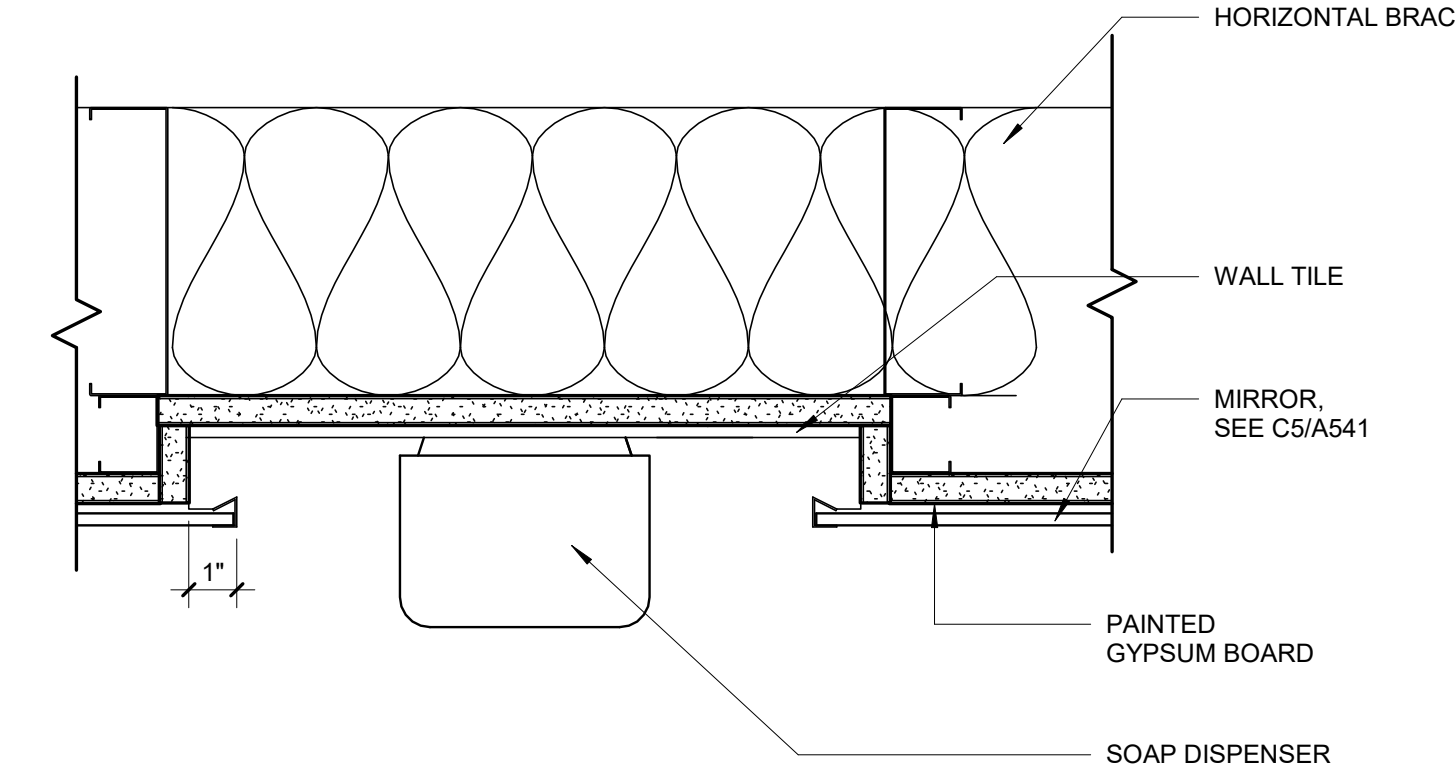
DATE: May 30, 2018

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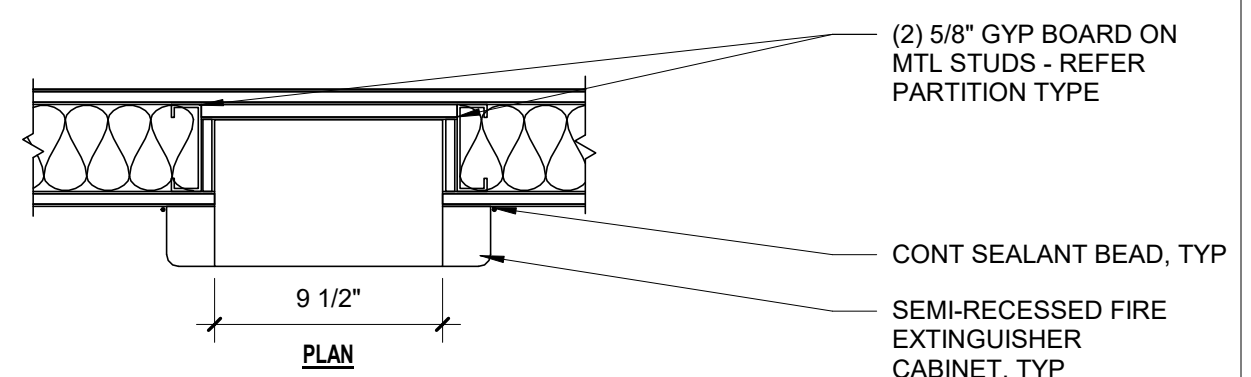
A541



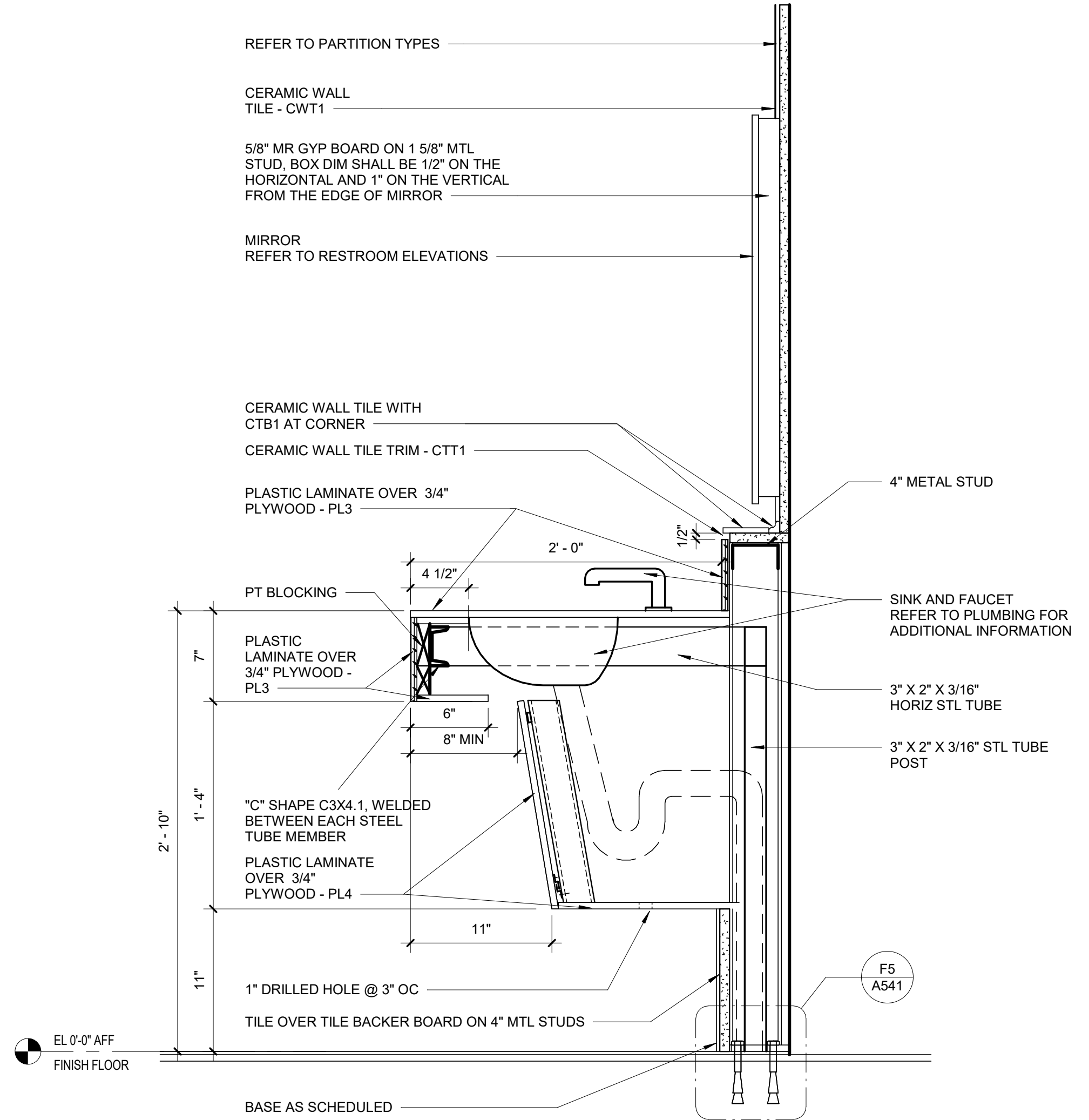
F5 A541 STEEL SUPPORT DETAIL SCALE: 6" = 1'-0"



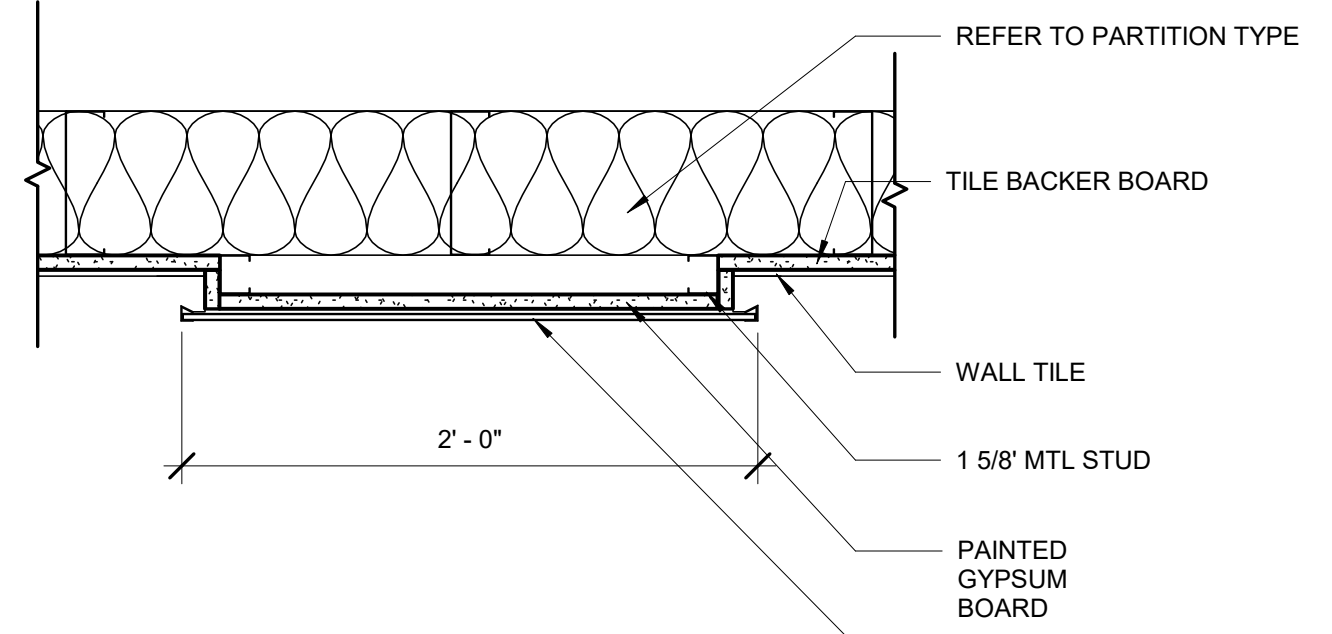
F7 A541 SOAP DISPENSER MOUNTING DETAIL SCALE: 3" = 1'-0"



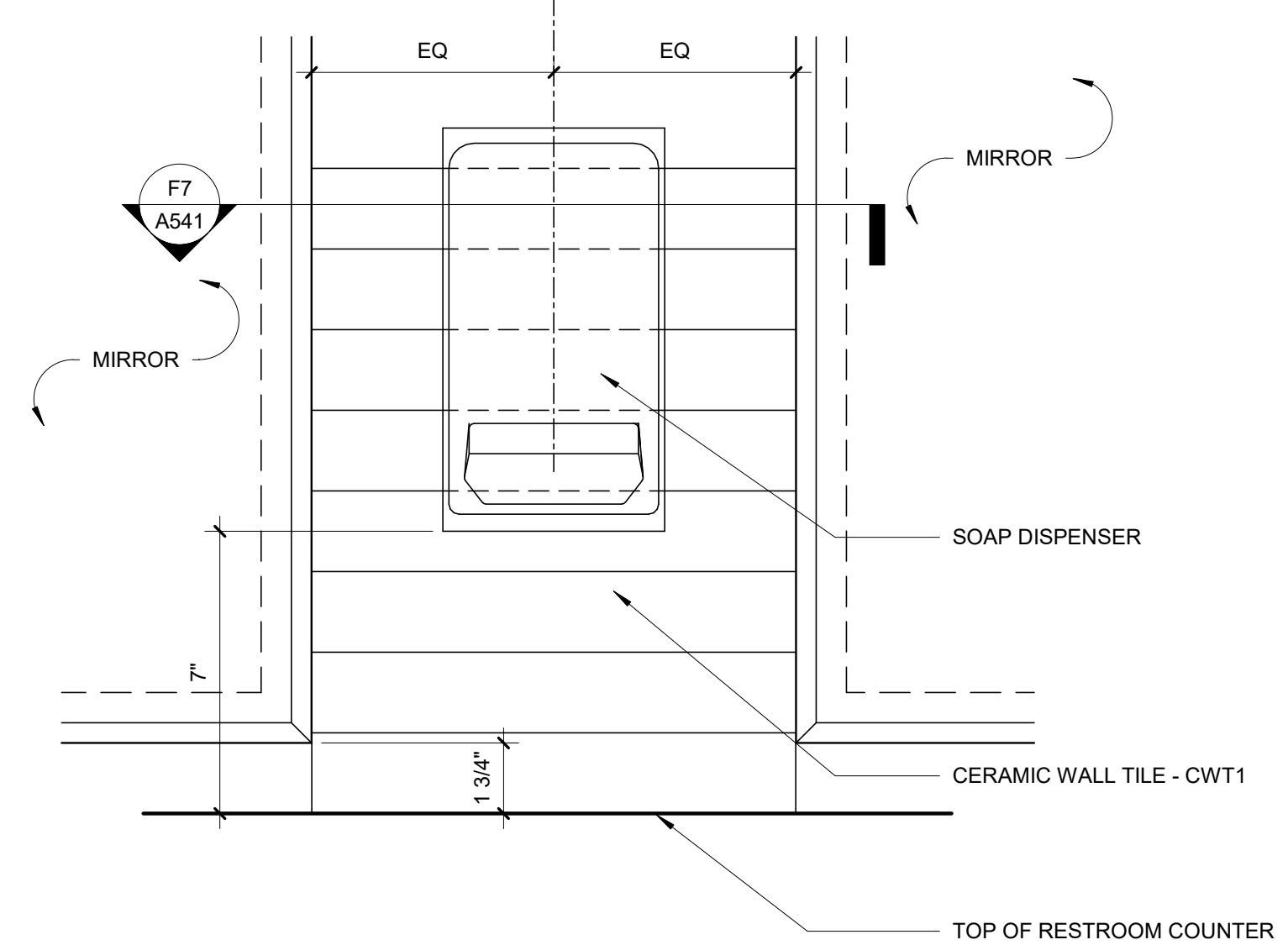
PLAN SCALE: 3" = 1'-0"



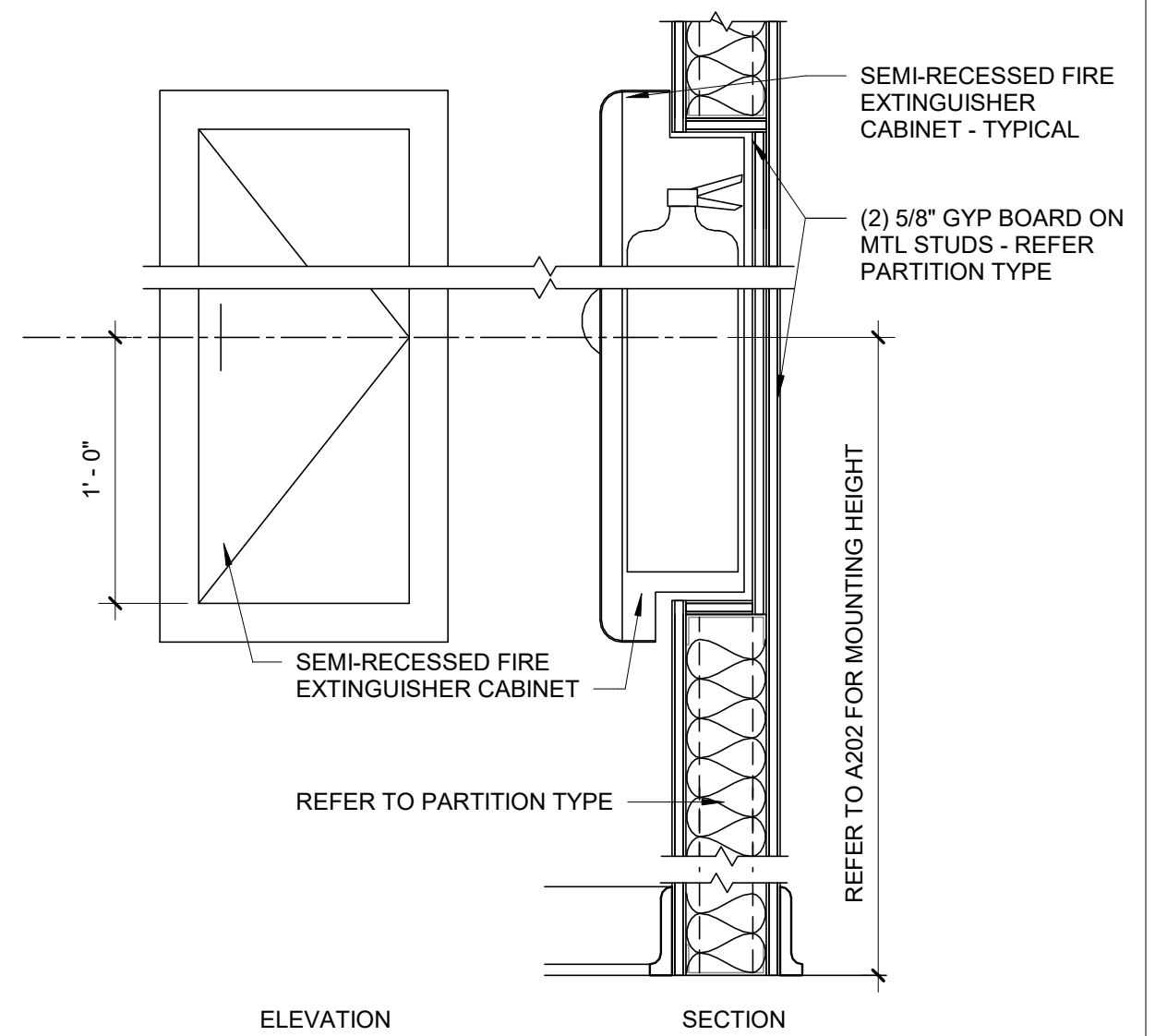
E3 A541 RESTROOM COUNTERTOP SECTION SCALE: 1 1/2" = 1'-0"



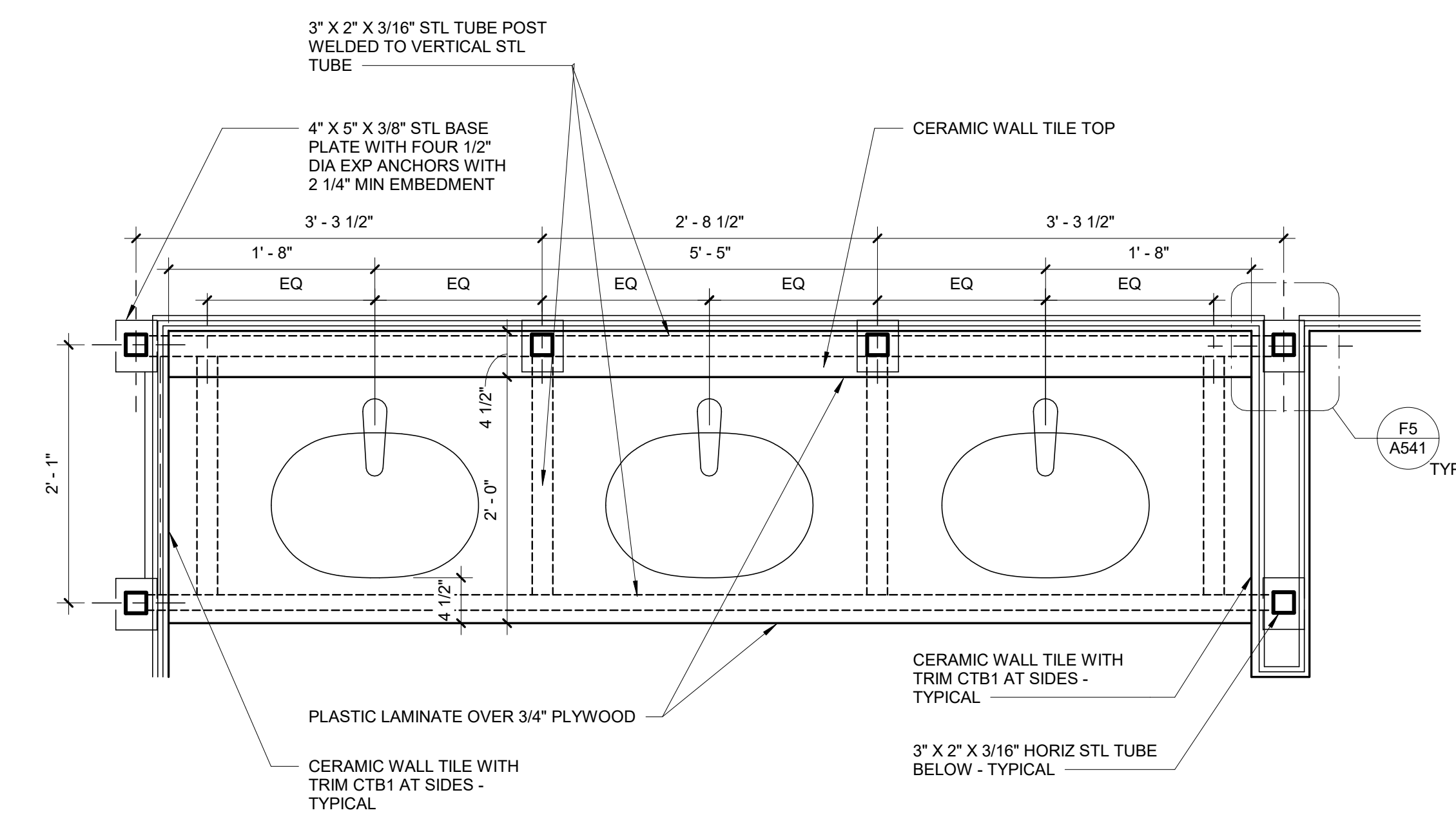
C5 A541 PROJECTING MIRROR - TYPICAL DETAIL SCALE: 1 1/2" = 1'-0"



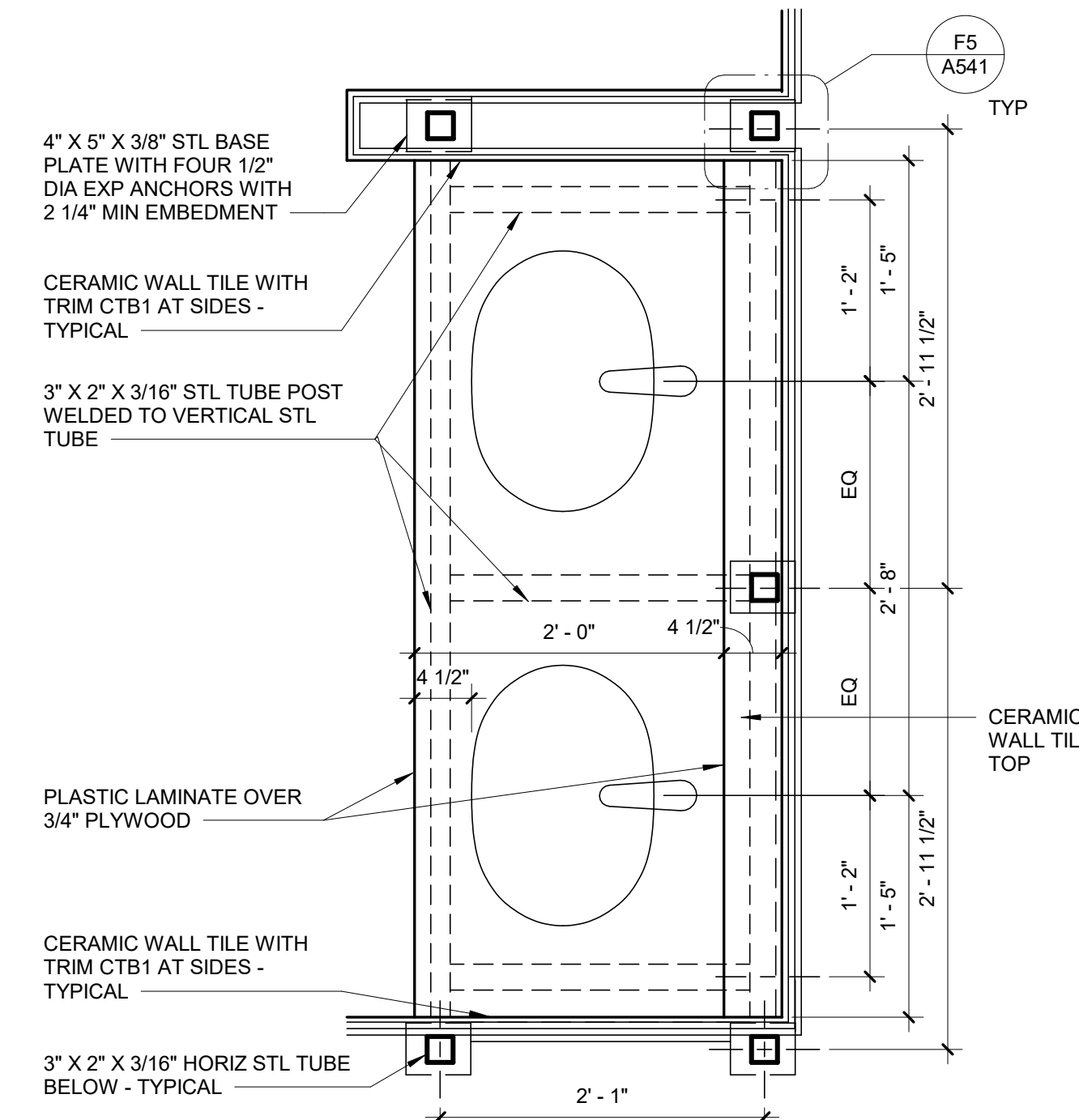
C7 A541 SOAP DISPENSER MOUNTING ELEVATION SCALE: 3" = 1'-0"



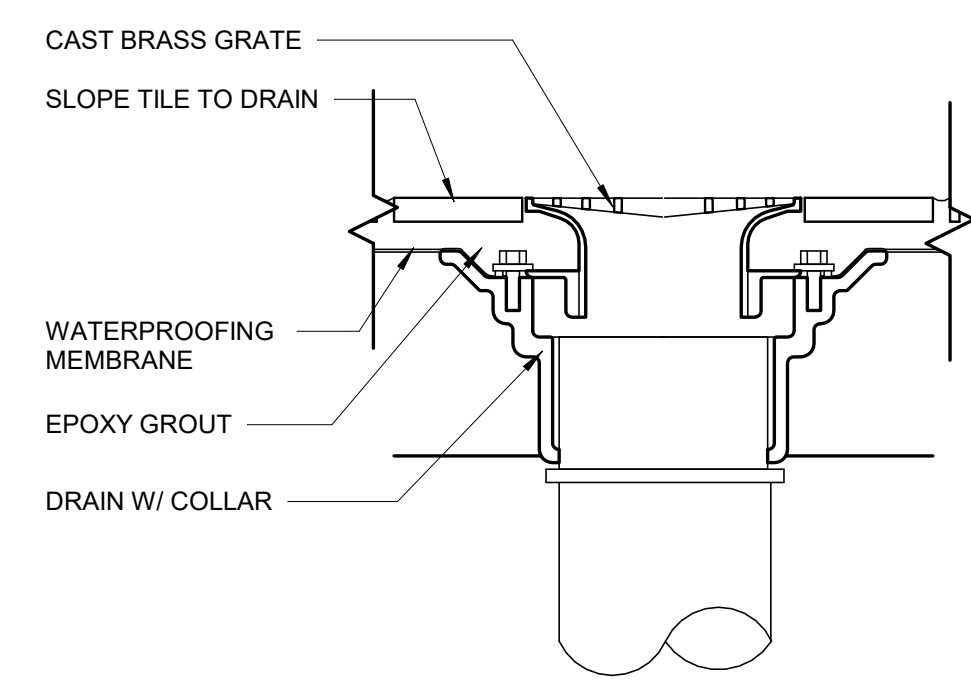
C9 A541 SEMI-RECESSED FIRE EXTINGUISHER CABINET SCALE: 1 1/2" = 1'-0"



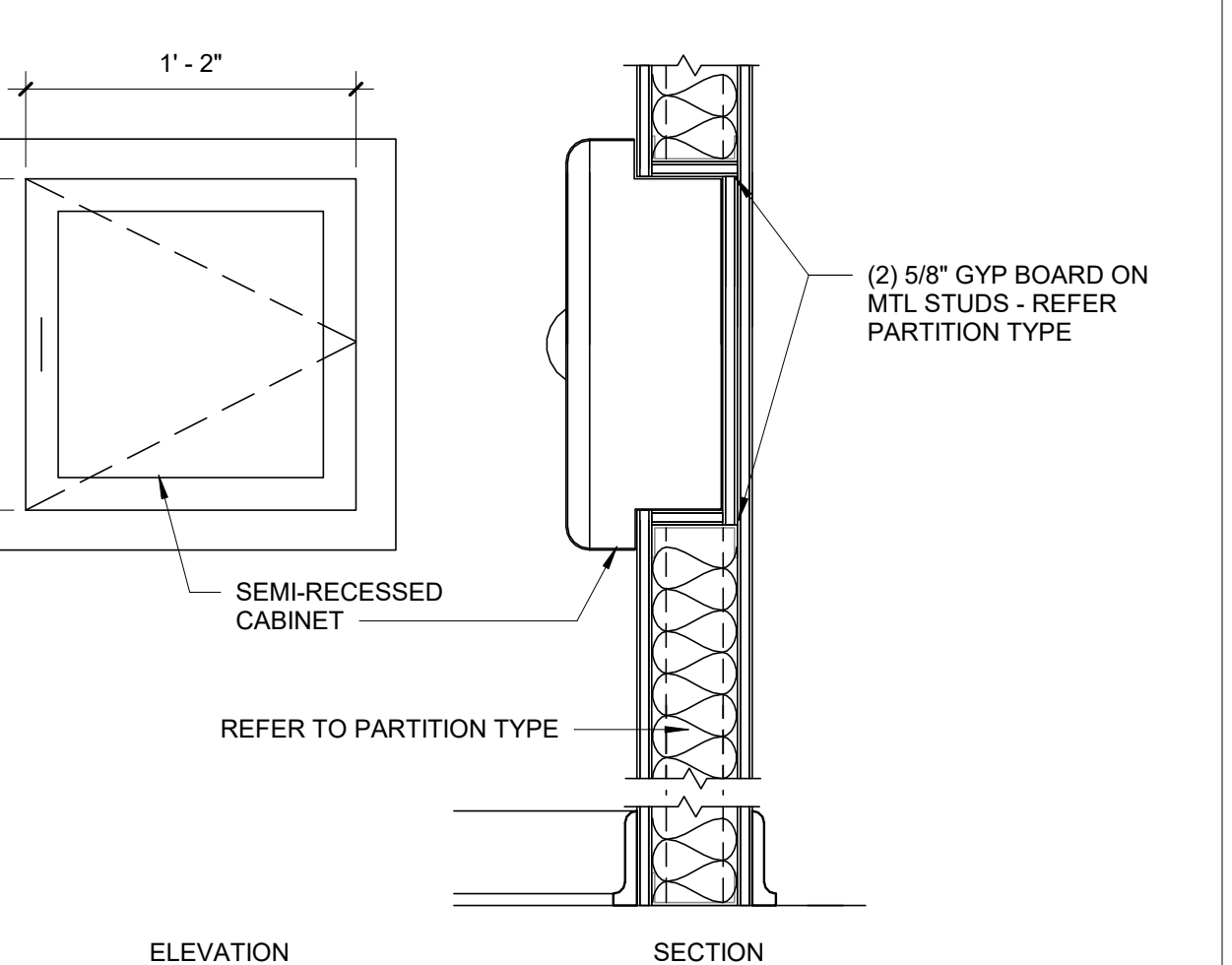
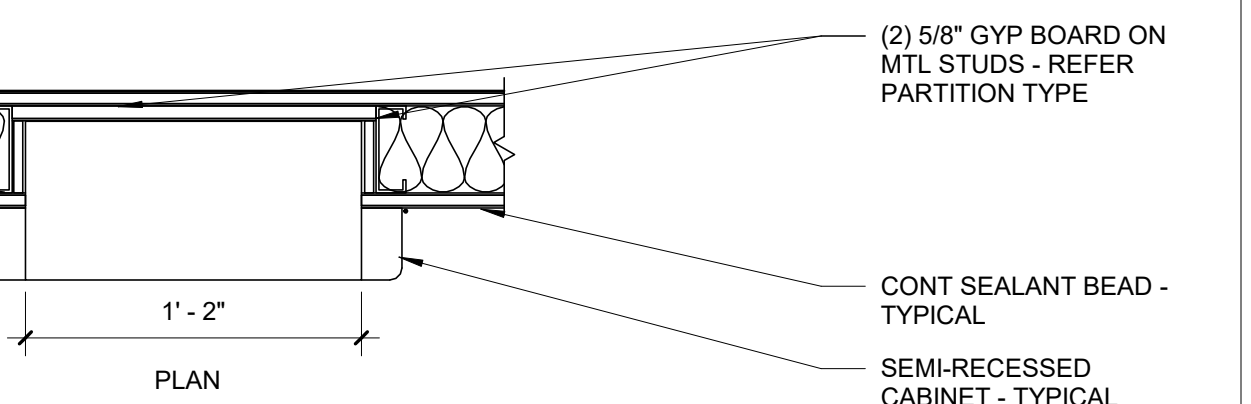
A1 A541 COUNTERTOP FRAMING LAYOUT AT WOMEN RESTROOM SCALE: 1" = 1'-0"



A5 A541 COUNTERTOP FRAMING LAYOUT AT MEN RESTROOM SCALE: 1" = 1'-0"

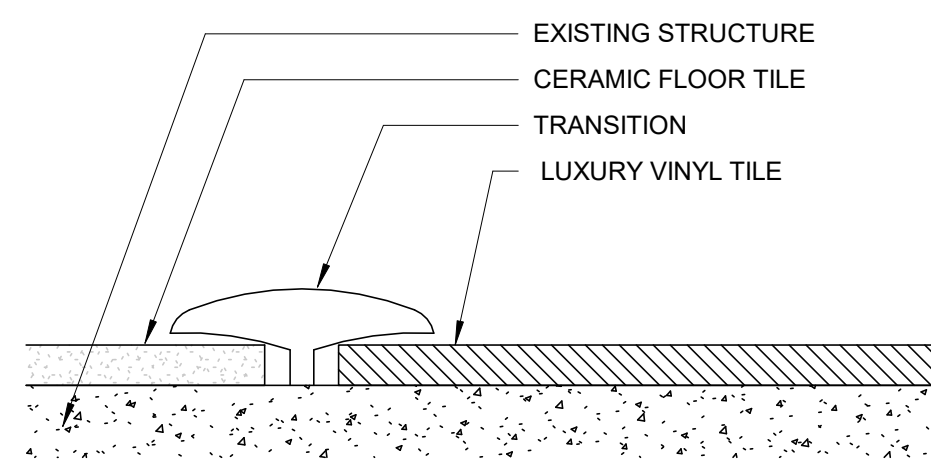


A7 A541 FLOOR DRAIN DETAIL SCALE: 3" = 1'-0"

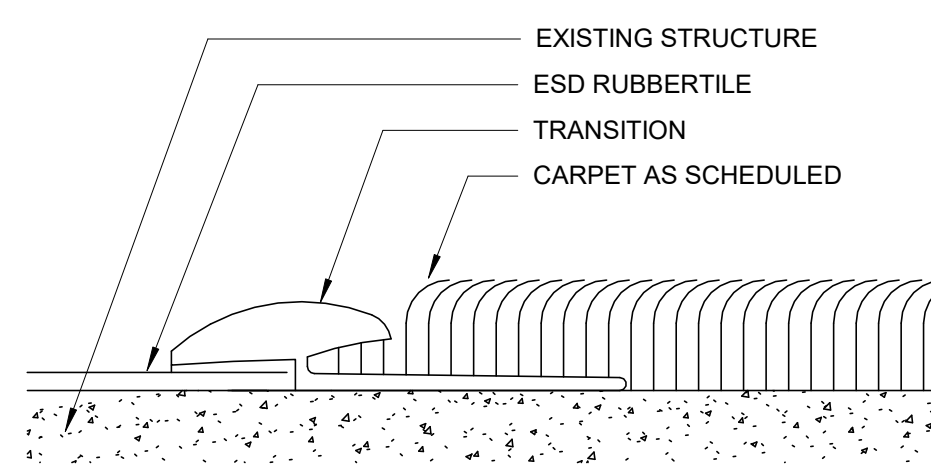


A9 A541 SEMI-RECESSED AED CABINET SCALE: 1 1/2" = 1'-0"

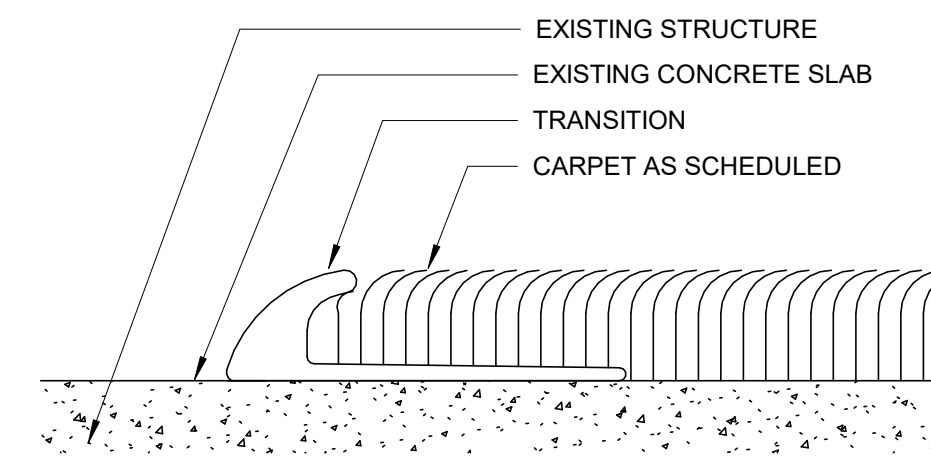
FINISH SCHEDULE									
ROOM NUMBER	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH				CEILING FINISH	REMARKS
				NORTH	SOUTH	EAST	WEST		
LEVEL 02									
210	LOBBY	LVT1	RB2	PT1	PT1	PT1	PT1	ACP1	
210A	EXIST STOR	ERT1	RB3	PT1	PT1	PT1	PT1	ACP1	
210B	EXIST STOR	ERT1	RB3	PT1	PT1	PT1	PT1	ACP1	
220	CORRIDOR	LVT1	RB2	PT1	PT1	PT1	PT1	ACP1	
221	WOMEN RESTROOM	CFT1	CTB1	PT1	PT1	PT1	PT1	ACP1	
222	JAN CL	EXPC	RB3	PT1	PT1	PT1	PT1	EXPOSED	
223	MEN RESTROOM	CFT1	CTB1	PT1	PT1	PT1	PT1	ACP1	
225	BREAK ROOM	LVT1	RB2	PT1	PT1	PT1	PT1	ACP1	
230	RECEPTION AREA	CPT1	RB1	PT1	PT1	PT1	PT1	ACP1	
231	PRINTING ROOM	LVT1	RB2	PT1	PT1	PT1	PT1	ACP1	
232	ASSISTANT MANAGER OFFICE	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	
234	MANAGER OFFICE	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	
235	OFFICE	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	
236A	CONFERENCE ROOM A	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	
236B	CONFERENCE ROOM B	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	
237	CORRIDOR	CPT1	RB1	PT1	PT1	PT1	PT1	ACP1	
240	ADMIN SUPPORT OPEN OFFICE AREA	CPT1	RB1	PT1	PT1	PT1	PT1	ACP1	
241	EXIST IDF RM	ERT1	RB3	PT1	PT1	PT1	PT1	ACP1	
242	PROGRAM COORD VENDOR SERVICE	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	
242A	STOR RM	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	
243	PROGRAM COORD SUPPORT SERVICES	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	
243A	STOR CL	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	
250	OPEN OFFICE AREA	CPT1	RB1	PT1	PT1	PT1	PT1	ACP1	
251	SENIOR INSPECTOR OFFICE	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	
251A	STOR CL	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	
252	SENIOR INSPECTOR OFFICE	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	
253	SENIOR INSPECTOR OFFICE	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	
254	EXIST IDF RM	ERT1	RB2	PT1	PT1	PT1	PT1	ACP1	
255	SENIOR INSPECTOR OFFICE	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	
256	CHIEF INSPECTOR OFFICE	CPT2	RB1	PT1	PT1	PT1	PT1	ACP1	



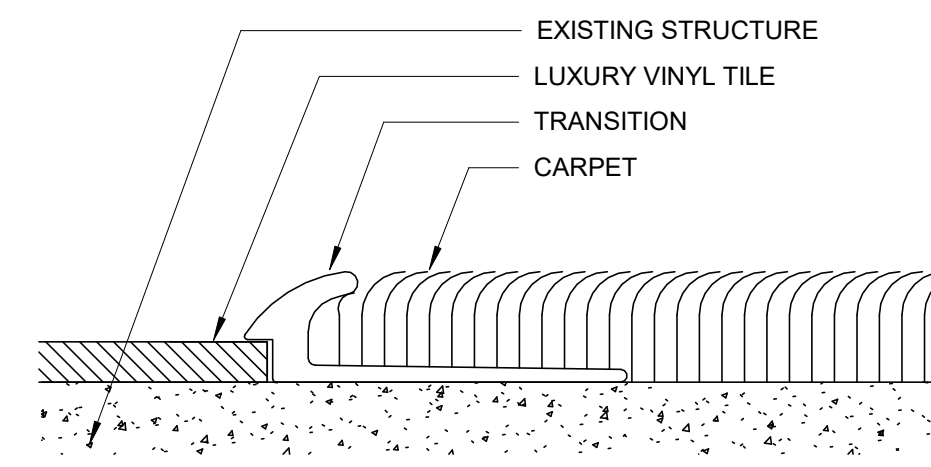
E1
A601
LVT TO CERAMIC FLOOR TILE
SCALE: 3" = 1'-0"



C1
A601
CARPET TO RUBBER
SCALE: 3" = 1'-0"



B1
A601
CARPET TO CONCRETE
SCALE: 3" = 1'-0"



A1
A601
CARPET TO LVT TRANSITION
SCALE: 3" = 1'-0"

FINISH SCHEDULE LIST

FINISHES LISTED BELOW ARE BASIS OF DESIGN. SUBSTITUTIONS MUST MATCH THE SELECTED COLOR WAY AND HAVE A SIMILAR PATTERN. ALL SUBSTITUTIONS MUST BE REVIEWED AND APPROVED BY ORANGE COUNTY CAPITAL PROJECTS AND ORANGE COUNTY PROCUREMENT DIVISION.

CARPET

(CPT1) MNF: INTERFACE
STYLE: #12490AK0H
COLLECTION: HUMAN NATURE
SIZE: 25cm x 1m
SERIES: HW820 IZ
COLOR: 104255 EARTH
LOCATION: GENERAL CARPET
INSTALLATION METHOD: ASHLAR (REFER TO FLOOR PLAN FOR OVERALL DIRECTION)

(CPT2) MNF: INTERFACE
STYLE: #124202500
COLLECTION: THE POND
SIZE: 50cm x 50cm
SERIES: BERLIN IZ
COLOR: 6710 LOAM
LOCATION: CONFERENCE ROOM AND OFFICES
INSTALLATION METHOD: NON DIRECTIONAL

CERAMIC WALL TILE

(CWT1) MNF: CAESAR CONTRACT SOLUTIONS
SERIES: SLAB COLLECTION
COLOR: SLAB KHAKI
SIZE: 12"x24"
LOCATION: RESTROOMS

CERAMIC FLOOR TILE

(CFT1) MNF: CAESAR CONTRACT SOLUTIONS
SERIES: WIDE COLLECTION
COLOR: WIDE STEEL
SIZE: 12"x24"
LOCATION: RESTROOMS

CERAMIC TILE BASE

(CTB1) MNF: SCHLUTER SYSTEMS
SERIES: SCHLUTER-DILEX-EHK
COLOR: STAINLESS STEEL
SIZE: US98
LOCATION: TILE BASE AND WALL CORNERS AT RESTROOMS

CERAMIC TILE TRIM

(CTT1) MNF: SCHLUTER SYSTEMS
SERIES: SCHLUTER-DECO-SG SERIRES
COLOR: STAINLESS STEEL
SIZE: H
LOCATION: COUNTERTOP CORNERS AT RESTROOMS

LUXURY VINYL TILE

(LVT1) MNF: USF CONTRACT
STYLE: 50DLR6007
SIZE: 7' x 50"
SERIES: STRATUM EIRIS COLLECTION
COLOR: MORCHIELLA
LOCATION: PRINTING AND BREAK ROOM

ESD RUBBER TILE

(ERT1) MNF: ROPPE - 06 QUICKSIX
STYLE: ESD RUBBER
SIZE: 24"x24" TILE
COLOR: F407 TIERRA
LOCATION: IDF ROOMS
NOTE: RUBBER WELDING BEAD COLOR-194 BURNT UMBER

PLASTIC LAMINATE

(PL1) MNF: FORMICA
COLOR: HARTH
NUMBER: 5342-SP
LOCATION: BREAK ROOM LOWER AND UPPPER CABINETS

(PL2) MNF: FORMICA
COLOR: COLORADO SLATE SPARKLE
NUMBER: 7014-42
LOCATION: BREAK ROOM COUNTERTOP
NOTES: EDGEBAND TO BE MATCH COLORADO SLATE SPARKLE

(PL3) MNF: FORMICA
COLOR: ELEMENTAL OXIDE
NUMBER: 6471-58
LOCATION: RESTROOM COUNTERTOP
NOTES: EDGEBAND TO MATCH ELEMENTAL OXIDE

(PL4) MNF: FORMICA
COLOR: GRAPHITE
NUMBER: 837-58
LOCATION: RESTROOM COUNTERTOP BOTTOM

BASE

(RB1) MNF: SHAW CONTRACT
STYLE: STRAIGHT
COLOR: 00039 SHADOW
HEIGHT: 6" H
LOCATION: USE WITH CARPET CPT1 AND CPT2

(RB2) MNF: SHAW CONTRACT
STYLE: STRAIGHT
COLOR: 00760 CLAY
HEIGHT: 6" H
LOCATION: USE WITH LVT1

(RB3) MNF: SHAW CONTRACT
STYLE: 148VS
COLOR: 00039 SHADOW
HEIGHT: 4" H
LOCATION: USE WITH ERT1

PAINT

(PT1) MNF: SHERWIN WILLIAMS
COLOR: FIRST STAR
NUMBER: SW7646
FINISH: EGGSHELL
LOCATION: GENERAL LOCATION SEMI-GLOSS - AT RESTROOMS

(PT2) MNF: SHERWIN WILLIAMS
COLOR: MINDRILL GRAY
NUMBER: SW7016
FINISH: SEMI-GLOSS
LOCATION: DOOR & FRAME

(PT3) MNF: SHERWIN WILLIAMS
COLOR: FOLKSTONE
NUMBER: SW9005
FINISH: EGGSHELL
LOCATION: ACCENT

(PT4) MNF: SHERWIN WILLIAMS
COLOR: GRAYS HARBOR
NUMBER: SW9236
FINISH: EGGSHELL
LOCATION: ACCENT

(PT5) MNF: SHERWIN WILLIAMS
COLOR: HIGH REFLECTED WHITE
NUMBER: SW7757
FINISH: EGGSHELL
LOCATION: SOFFITS

ACOUSTICAL CEILING PANEL

(ACP1) MNF: ARMSTRONG
SERIES: FINE FISURED
STYLE: #1728
SIZE: 24" x 24" x 5/8"
EDGE: SQUARE LAY-IN
COLOR: WHITE
GRID: 15/16"
NOTE: GENERAL CEILING USE

WINDOW TREATMENT

(WT1) MNF: DRAPE, INC
TYPE: ROLLER SHADES WITH CABLE GUIDE ASSEMBLY (MANUALLY OPERATED)
STYLE: SINGLE ROLLER, RECESSED MOUNT
COLOR: 00M166 LINEN/SABLE-COCOA
LOCATION: M SCREEN CONVENTIONAL, BY MERMET EXISTING EXTERIOR CURTAIN WALLS

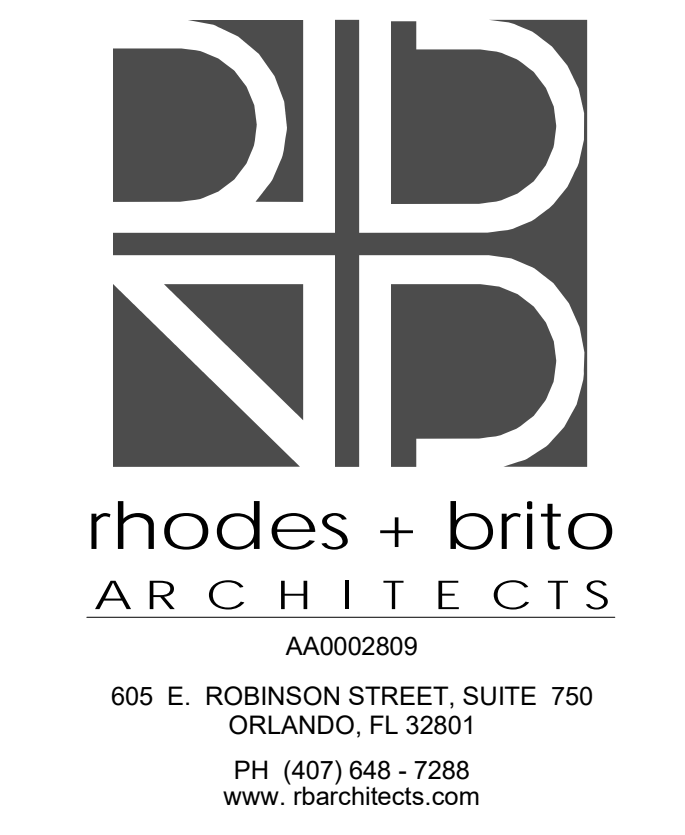
TOILET COMPARTMENTS

(TC1) MNF: ASI ACCURATE PARTITIONS
SERIES: COLOR-THRU PHENOLIC WITH OVERHEAD BRACING IN BRUSHED STAINLESS STEEL
COLOR: GRAY MIST #3450C
LOCATION: WOMEN RESTROOMS

(TC2) MNF: ASI ACCURATE PARTITIONS
SERIES: COLOR-THRU PHENOLIC WITH OVERHEAD BRACING IN BRUSHED STAINLESS STEEL
COLOR: BLACK #2030C
LOCATION: MEN RESTROOMS

OPERABLE PARTITIONS

(OP1) MNF: HUFCOR
SERIES: UNISPAN
COLOR: FABRIC - FUSION PATTERN 44-538
METAL TRIM - LIGHT GREY
POCKET DOOR, TYPE 3
COLOR: GREY
FINISH: SAME AS OPERABLE PARTITION FABRIC
LOCATION: CONFERENCE ROOM



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Capital Projects Division

Orange County Code Enforcement Office Renovations

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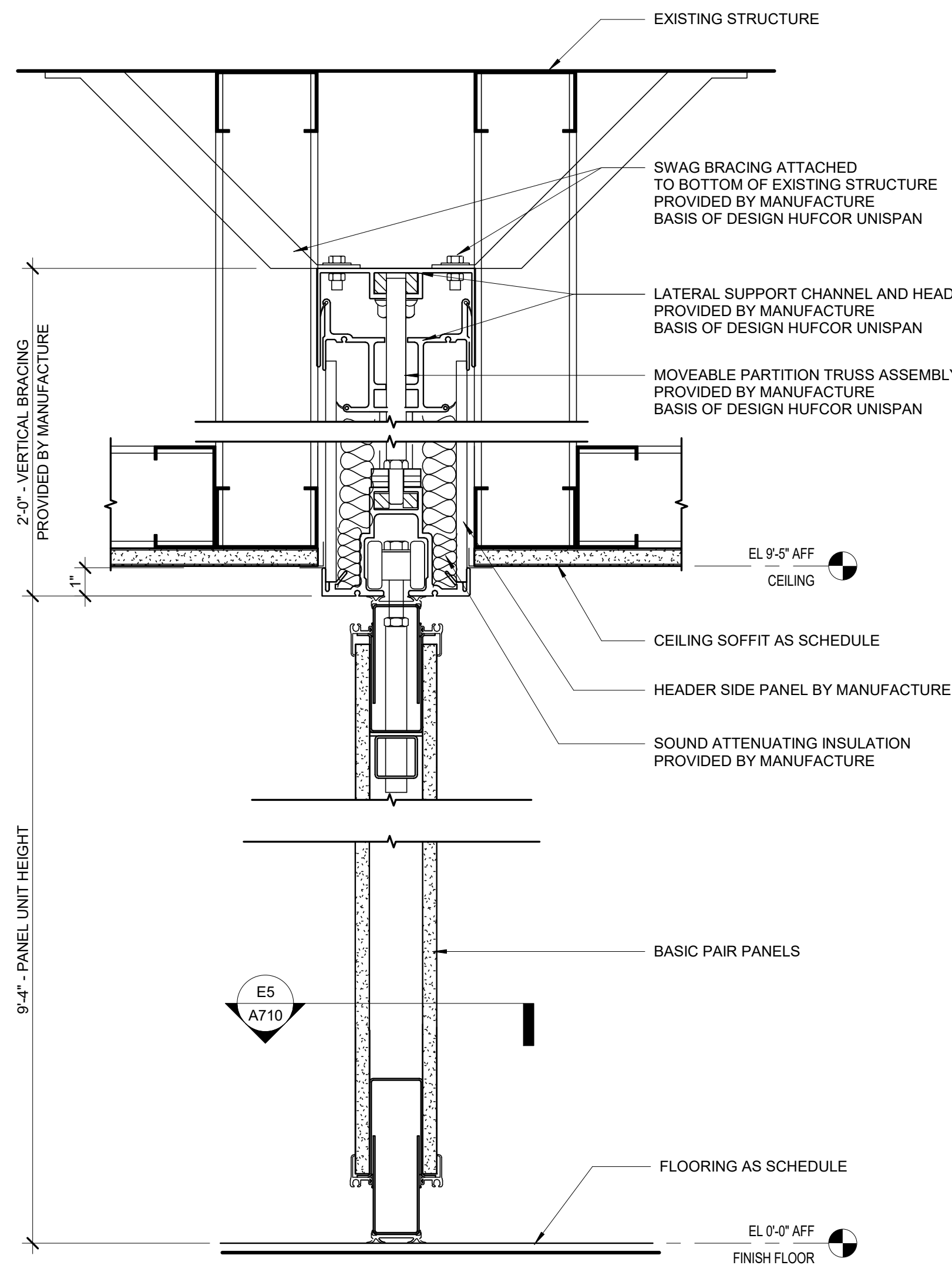
BID DOCUMENTS
NOT FOR CONSTRUCTION

DATE	SUBMISSION / REVISION	NO.

FINISH SCHEDULE AND DETAILS

SCALE: AS INDICATED
DRAWN BY: MA/AC
CHECK BY: AC/MB
DATE: May 30, 2018
PROJECT NUMBER: 15012-0020

A601

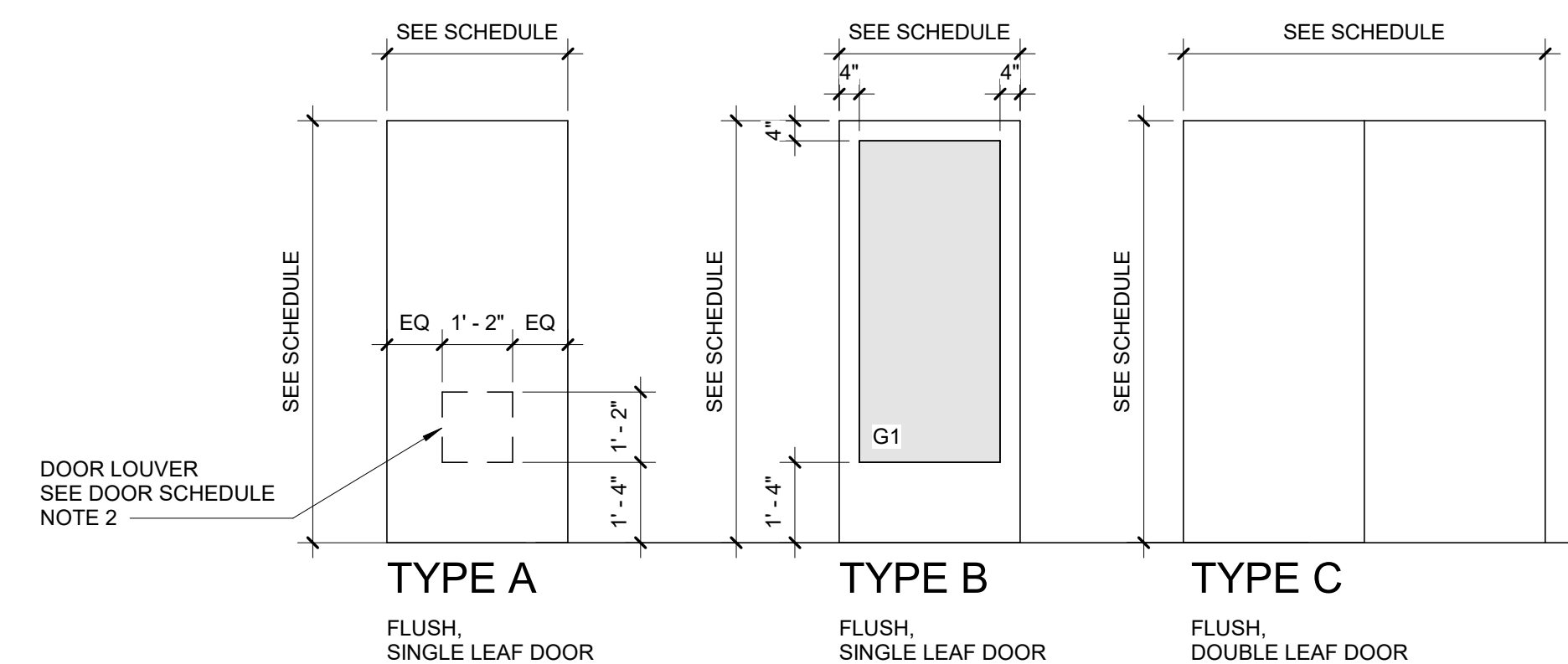
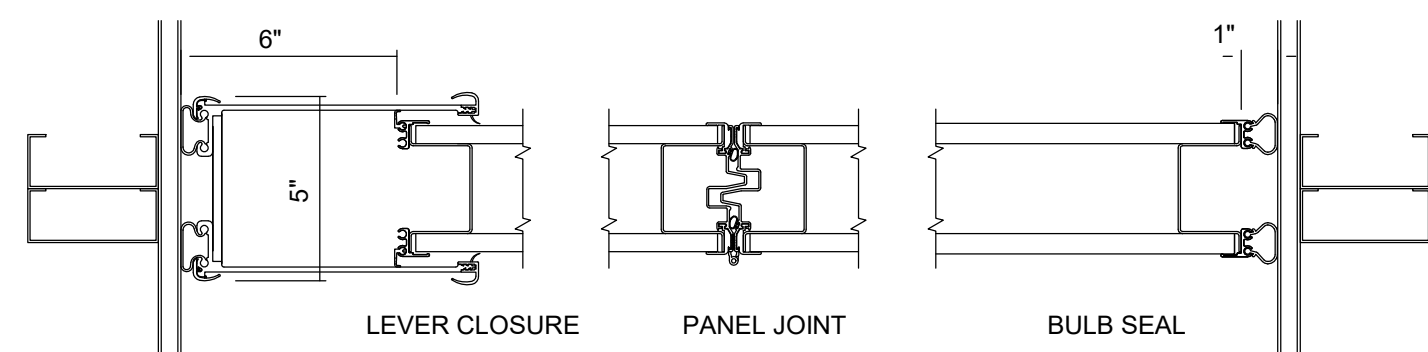


OPERABLE PARTITION WALL SECTION

SCALE: 3/8" = 1'-0"

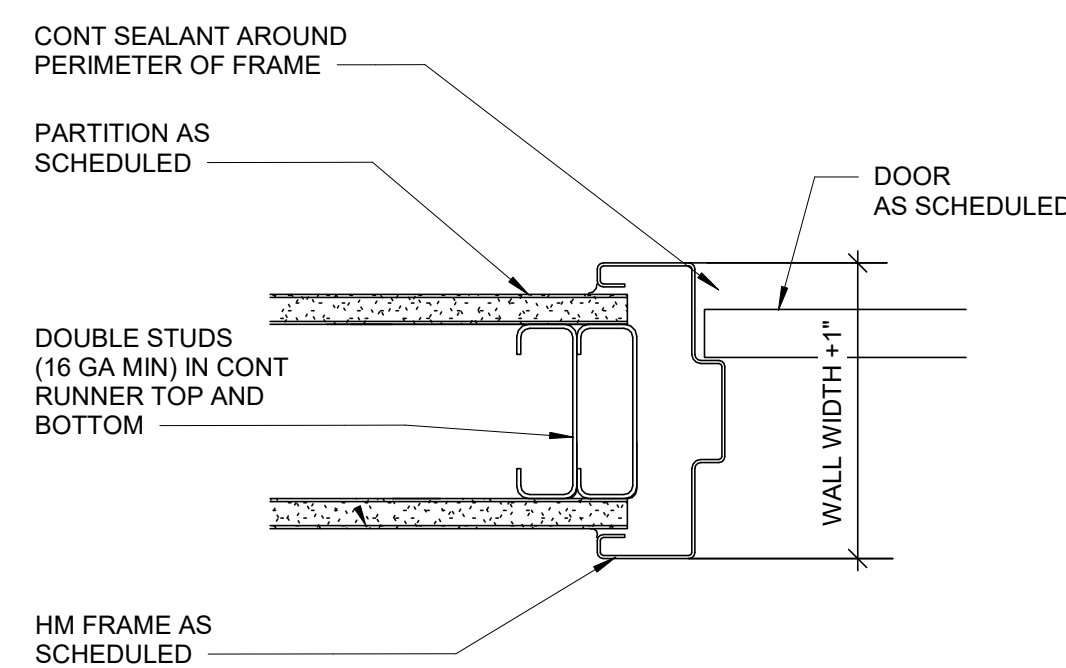
MARK	ROOM NUMBER	ROOM NAME	DOOR										FRAME		HARDWARE	NOTES	
			DOOR SIZE	THICK	MATL	FINISH	RATING	TYPE	GLAZ	MAT'L	TYPE	FINISH					
LEVEL 02																	
221	221	WOMEN RESTROOM	36" x 84"	1 3/4"	SC	PNT	-	A	-	HM	F1	PNT	6				
222	222	JAV CL	30" x 84"	1 3/4"	SC	PNT	-	A	-	HM	F1	PNT	2				
223	223	MEN RESTROOM	36" x 84"	1 3/4"	SC	PNT	-	A	-	HM	F1	PNT	6				
225	225	BREAK ROOM	36" x 84"	1 3/4"	SC	PNT	-	B	G1	HM	F1	PNT	5				
231	231	PRINTING ROOM	36" x 84"	1 3/4"	SC	PNT	-	B	G1	HM	F1	PNT	5				
232	232	ASSISTANT MANAGER OFFICE	36" x 84"	1 3/4"	SC	PNT	-	B	G1	HM	F1	PNT	4				
234	234	MANAGER OFFICE	36" x 84"	1 3/4"	SC	PNT	-	B	G1	HM	F1	PNT	4				
235	235	OFFICE	36" x 84"	1 3/4"	SC	PNT	-	B	G1	HM	F1	PNT	4				
236A	236A	CONFERENCE ROOM A	36" x 84"	1 3/4"	SC	PNT	-	B	G1	HM	F1	PNT	5				
236B	236B	CONFERENCE ROOM B	36" x 84"	1 3/4"	SC	PNT	-	B	G1	HM	F1	PNT	5				
241	241	EXIST IDF RM	36" x 84"	2"	SC	PNT	45 MIN	A	-	HM	F2	PNT	3				DOOR WITH LOUVER, NOTE 2
242	242	PROGRAM COORD VENDOR SERVICE	36" x 84"	1 3/4"	SC	PNT	-	B	G1	HM	F1	PNT	4				
242A	242A	STOR RM	36" x 84"	1 3/4"	SC	PNT	-	A	-	HM	F1	PNT	5				
243	243	PROGRAM COORD SUPPORT SERVICES	36" x 84"	1 3/4"	SC	PNT	-	B	G1	HM	F1	PNT	4				
243A	243A	STOR CL	36" x 84"	1 3/4"	SC	PNT	-	A	-	HM	F1	PNT	5				
251	251	SENIOR INSPECTOR OFFICE	36" x 84"	1 3/4"	SC	PNT	-	B	G1	HM	F1	PNT	4				
251A	251A	STOR CL	36" x 84"	1 3/4"	SC	PNT	-	A	-	HM	F1	PNT	5				
252	252	SENIOR INSPECTOR OFFICE	36" x 84"	1 3/4"	SC	PNT	-	B	G1	HM	F1	PNT	4				
253	253	SENIOR INSPECTOR OFFICE	36" x 84"	1 3/4"	SC	PNT	-	B	G1	HM	F1	PNT	4				
254	254	EXIST IDF RM	36" x 84"	2"	SC	PNT	45 MIN	A	-	HM	F2	PNT	3				DOOR WITH LOUVER, NOTE 2
255	255	SENIOR INSPECTOR OFFICE	36" x 84"	1 3/4"	SC	PNT	-	B	G1	HM	F1	PNT	4				
256	256	CHIEF INSPECTOR OFFICE	36" x 84"	1 3/4"	SC	PNT	-	B	G1	HM	F1	PNT	4				
257A	257	ELECTRICAL CL	2 x 36" x 84"	2"	SC	PNT	45 MIN	C	-	HM	F2	PNT	1				DOOR WITH LOUVER, NOTE 2
LEVEL 02: 23 Grand total: 23																	

HORIZONTAL SECTIONS



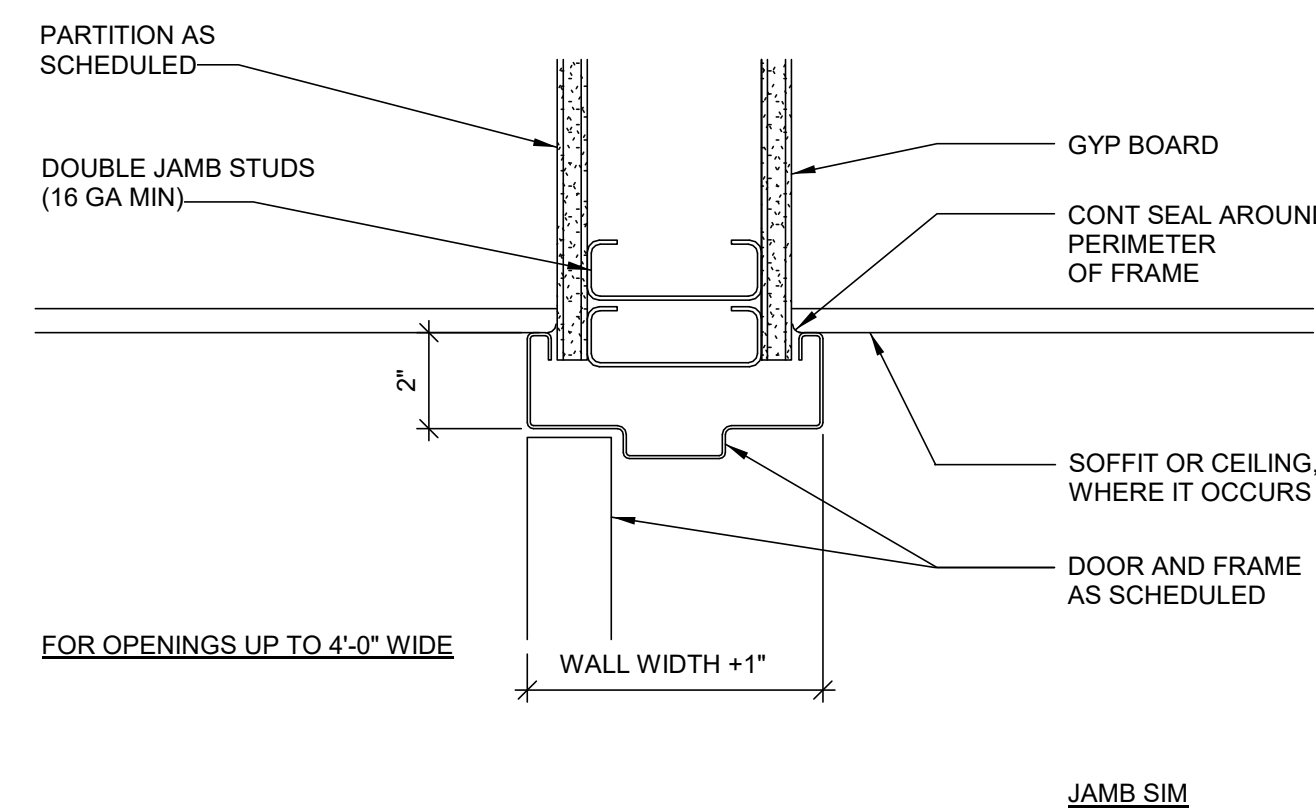
DOOR TYPE ELEVATIONS

SCALE: 3/8" = 1'-0"



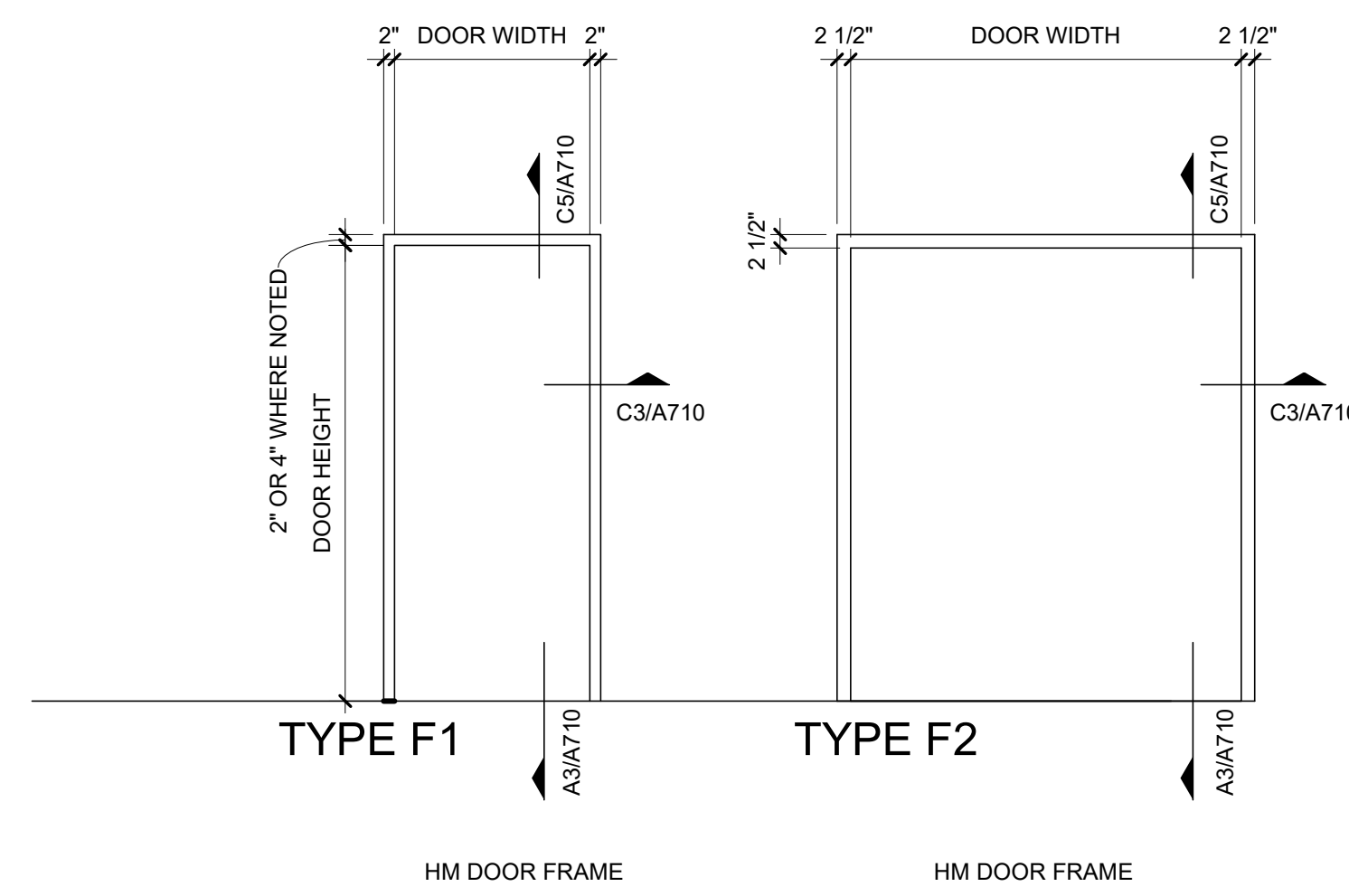
HM JAMB AT MTL STUD FRAMING

SCALE: 3/8" = 1'-0"



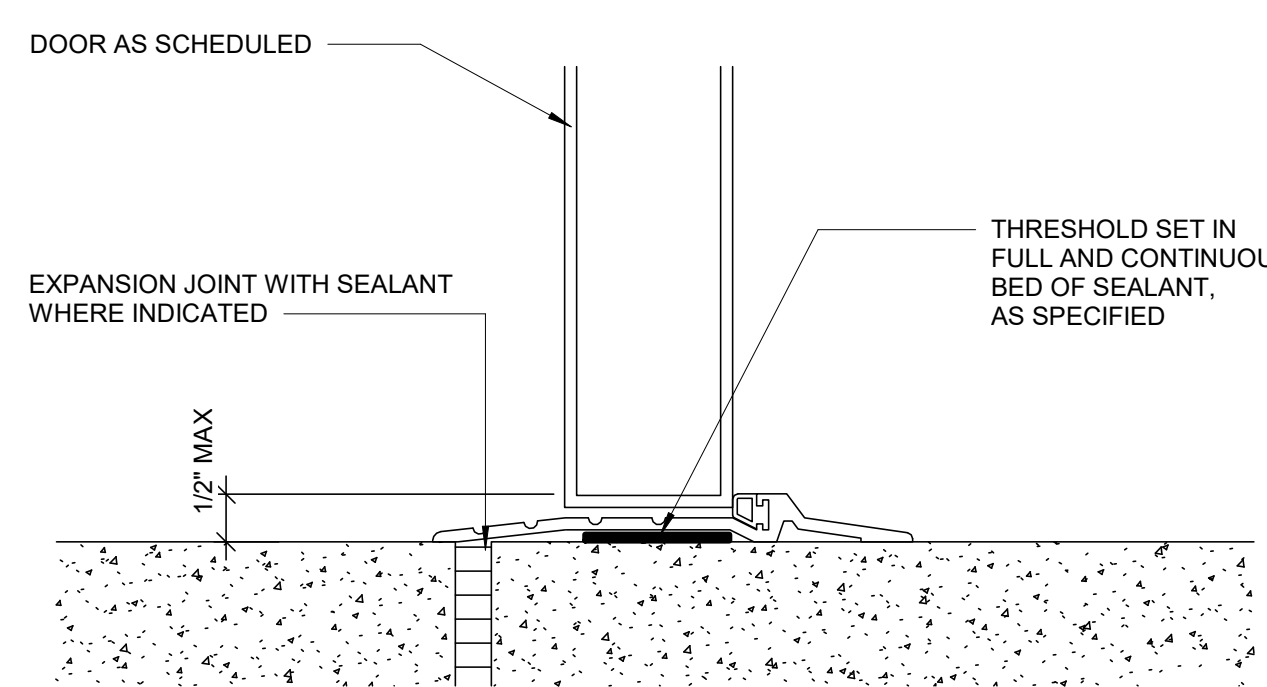
HM HEAD AT MTL STUD FRAMING

SCALE: 3/8" = 1'-0"



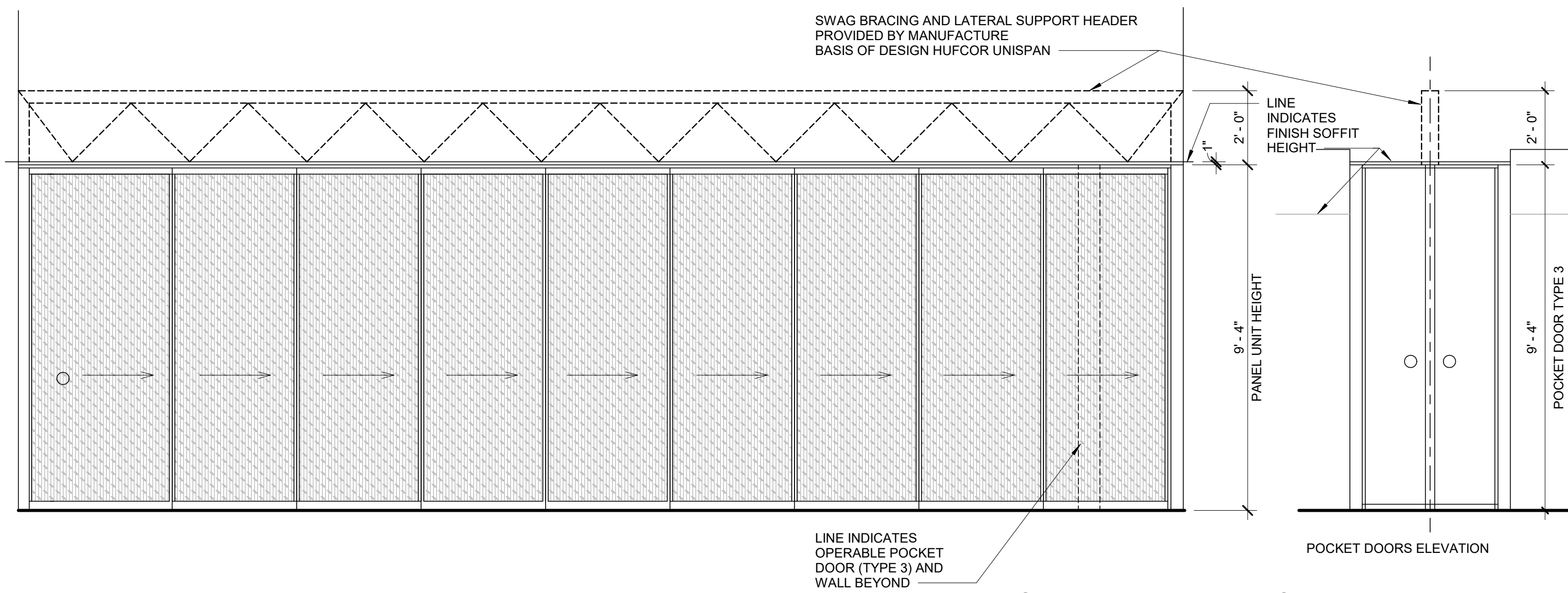
FRAME TYPE ELEVATIONS

SCALE: 3/8" = 1'-0"



TYPICAL THRESHOLD

SCALE: 3/8" = 1'-0"



OPERABLE PARTITION ON RECESSED TRACK SUPPORT

SCALE: 3/8" = 1'-0"

DOOR MATERIAL ABBREVIATIONS

AL	ALUMINUM
DBL	DOUBLE DOORS
HM	HOLLOW METAL DOOR OR FRAME
X	INDICATES LABEL, CLOSER OR ELECT. LOCK IS INCLUDED
N/A	NOT APPLICABLE
STL	STEEL
CR	SOLID CORE WOOD DOOR
CR	ACCESS CONTROL CARD READER
GL	GLAZING
STC	SOUND TRANSMITTING COEFFICIENT
FF	FACTORY FINISH
PNT	PAINTED

GLAZING MATERIAL TYPES

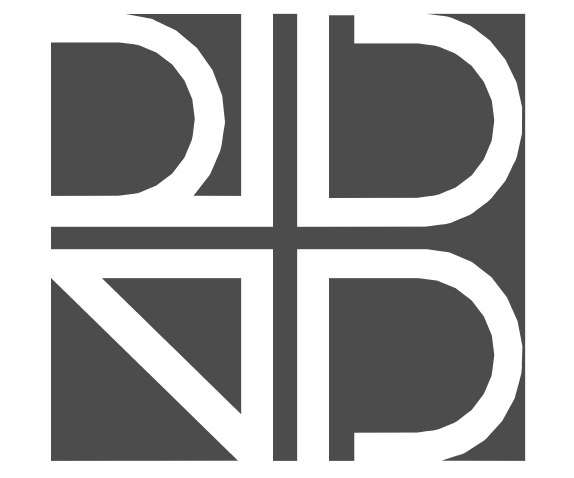
G1 1/2" CLEAR TEMPERED GLASS
EXISTING GLAZING AT EXTERIOR CURTAIN WALLS
NOTE:
WINDOW FILM TO BE INSTALLED AT THE EXISTING GLAZING AT EXTERIOR CURTAIN WALLS
BASIS OF DESIGN TO BE 3M SCOTCHSHIELD SAFETY AND SECURITY WINDOW FILM ULTRA NIGHT VISION SERIES - ULTRA PRESTIGE 50 - COMMERCIAL GRADE WITH ENERGY EFFICIENCY.

DOOR SCHEDULE NOTES

- ACCESS-CONTROLLED CARD READER AT THIS LOCATION. REFER TO ELECTRICAL / TECHNOLOGY DRAWINGS FOR ADDITIONAL INFORMATION
- FIRE-RATED DOOR LOUVER WITH ADJUSTABLE Z-BLADE - COLOR BRONZE

DOOR / HARDWARE GENERAL NOTES:

- ALL DOORS SHALL COMPLY WITH THE CLEARANCES FOR APPROACHES PER ADA REQUIREMENTS
- ALL HARDWARE SHALL BE UNLOCKED IN THE DIRECTION OF EGRESS, REGARDLESS OF OTHER LOCK FUNCTIONS
- ALL GLAZING SHALL BE SAFETY IMPACT GLASS TO COMPLY WITH FBC SECTION 2406.2
- CAULK DOOR JAMB AND HEADS WHERE GAPS EXCEEDS 1/16" TYPICAL
- DOORS SHALL OPERATE FREELY WITHOUT BINDING
- DOOR FRAMES SHALL BE SECURED RIGIDLY IN PLACE AND BRACED TO FLOOR AND STRUCTURE ABOVE TO PREVENT BREAK OUT TO PARTITIONS
- DOOR UNDERCUTS SHALL BE KEPT TO A MINIMAL DIMENSION AND SHALL BE UNIFORM THROUGHOUT PROJECT. U/I/O
- INSTALLATION OF ALL DOORS AND HARDWARE SHALL MEET MIN. ADA REQUIREMENTS. IF ANY CONFLICTS ARISE, THE ITEM MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO CONSTRUCTION
- PROVIDE THREE JAMB ANCHORS AND ONE BASE ANCHOR PER JAMB AT GYPSUM WALLBOARD PARTITIONS, TYP.
- PROVIDE FRAME ROUGH OPENINGS AS RECOMMENDED BY FRAME MANUFACTURER
- PROVIDE STANDARD DOOR FRAME PROFILES AS REQUIRED TO MEET ADJACENT CONDITIONS
- PROVIDE ANCHORS AND ACCESSORIES AS REQUIRED (REQD.) FOR CONDITIONS AS RECOMMENDED BY THE MANUFACTURER (MFR)
- ERECT ALL DOOR FRAMES AND ADJACENT WALLS TO CONFORM TO THE APPLICABLE PLAN CONFIGURATIONS. NOTIFY ARCHITECT OF ANY CONFLICTS PRIOR TO INSTALLATION OF DOOR FRAMES AND ADJACENT WALLS
- REFER TO FINISH SCHEDULE FOR ALL FINISH MATERIALS AND FINISH LOCATIONS
- ALL SURFACES EXPOSED TO VIEW ARE TO BE PAINTED PER SPECIFICATIONS
- ALL DOORS TO BE 1 3/4" THICK UNLESS NOTED OTHERWISE
- REFER TO SPECIFICATIONS FOR DOOR AND FRAME MATERIALS AND REQUIREMENTS
- FIELD VERIFY ALL OPENING DIMENSIONS PRIOR TO WORK



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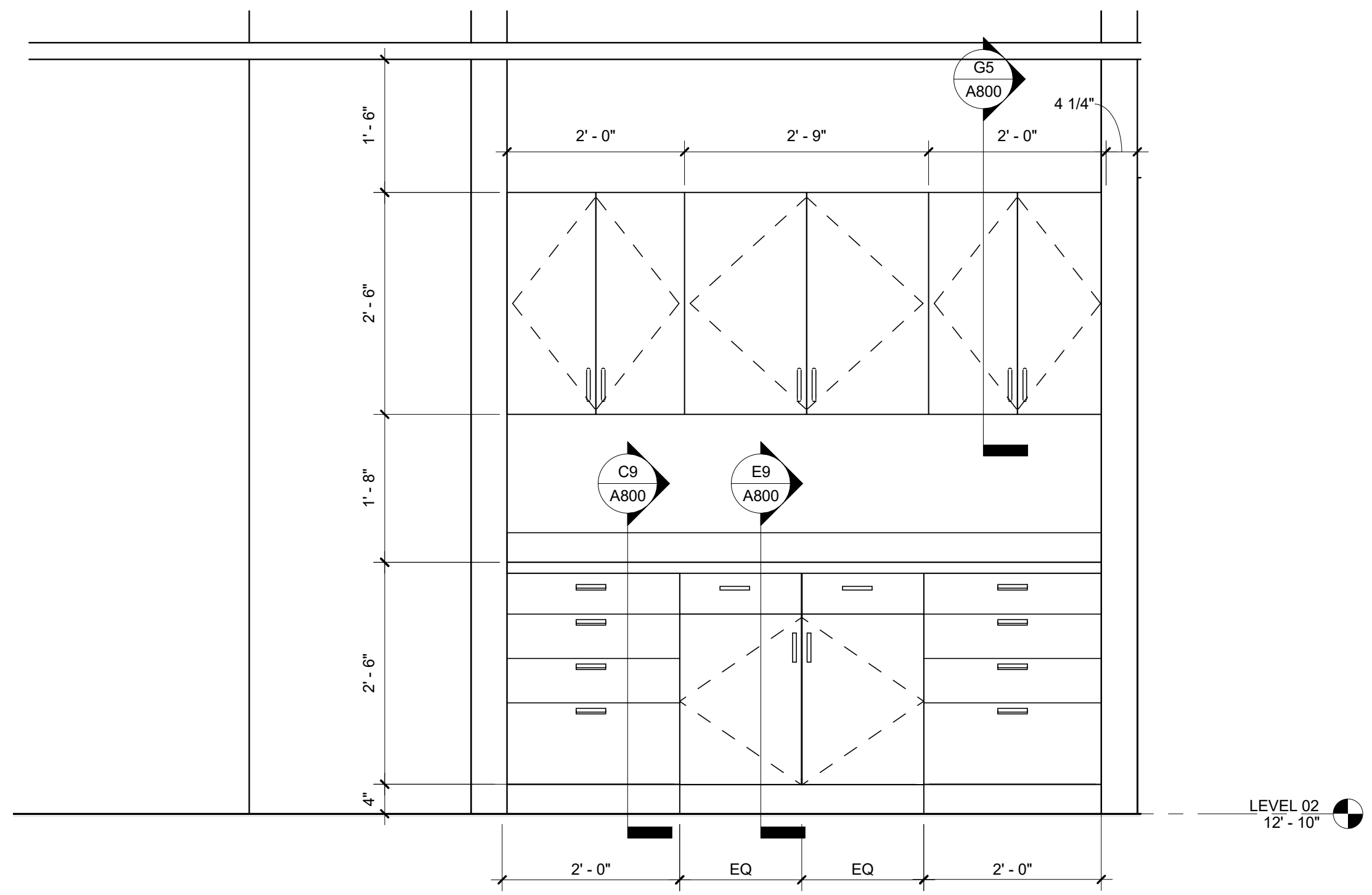
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DOOR SCHEDULE AND DETAILS

SCALE: AS INDICATED
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CHECK BY: AC/MB
DATE: May 30, 2018
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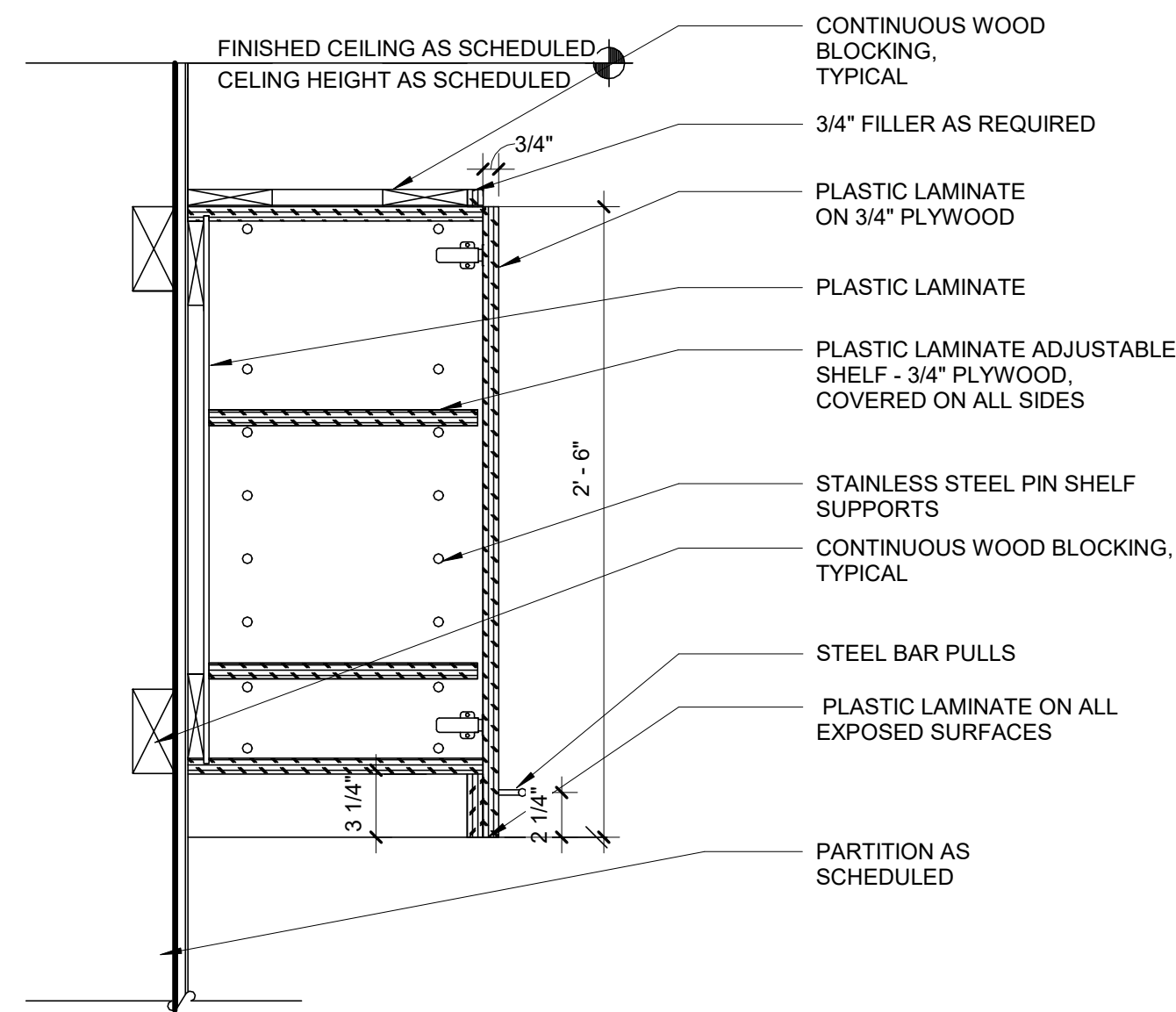
A710



MILLWORK ELEVATION

E1
A800

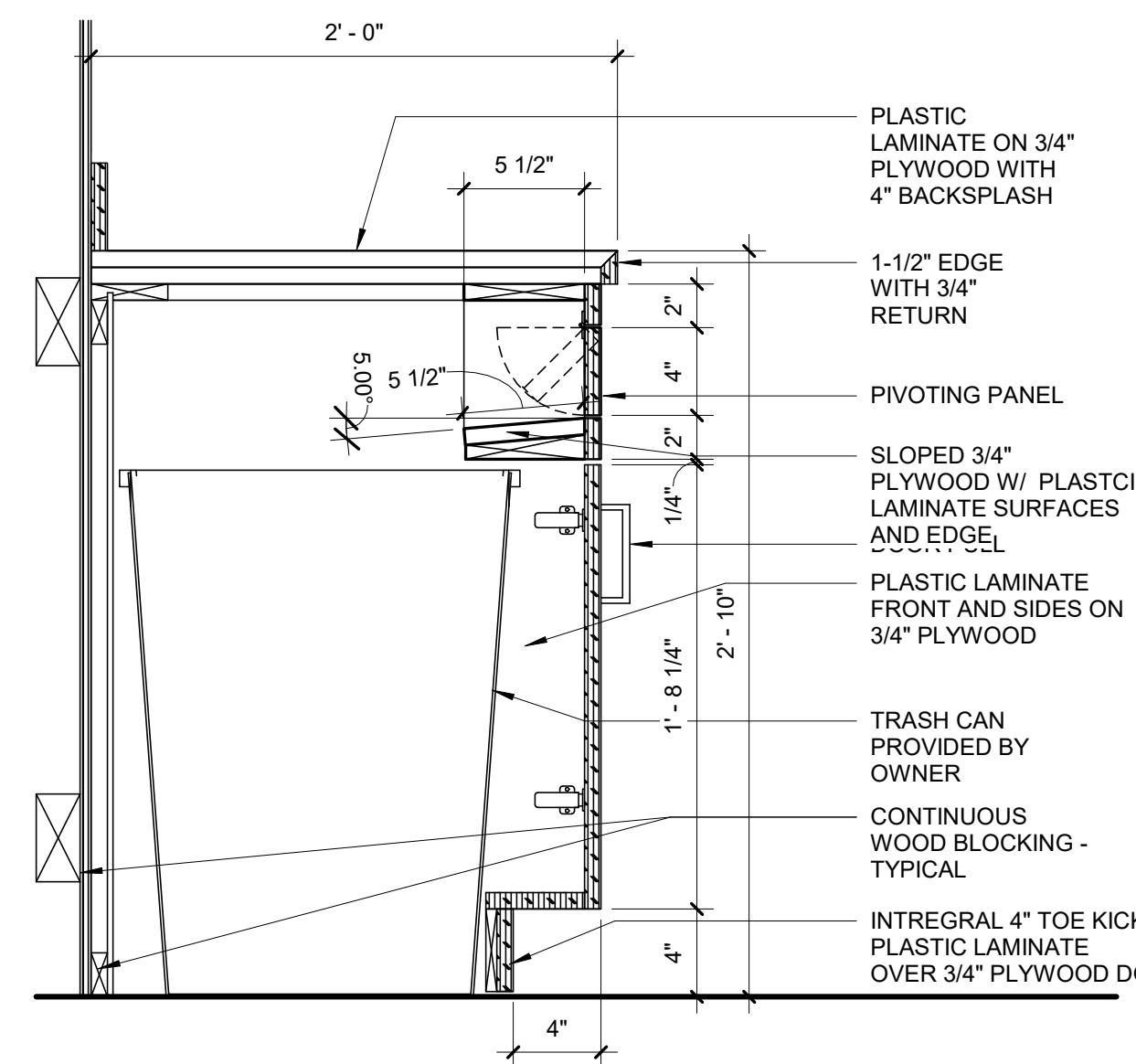
SCALE: 3/4" = 1'-0"



MILLWORK SECTION

G5
A800

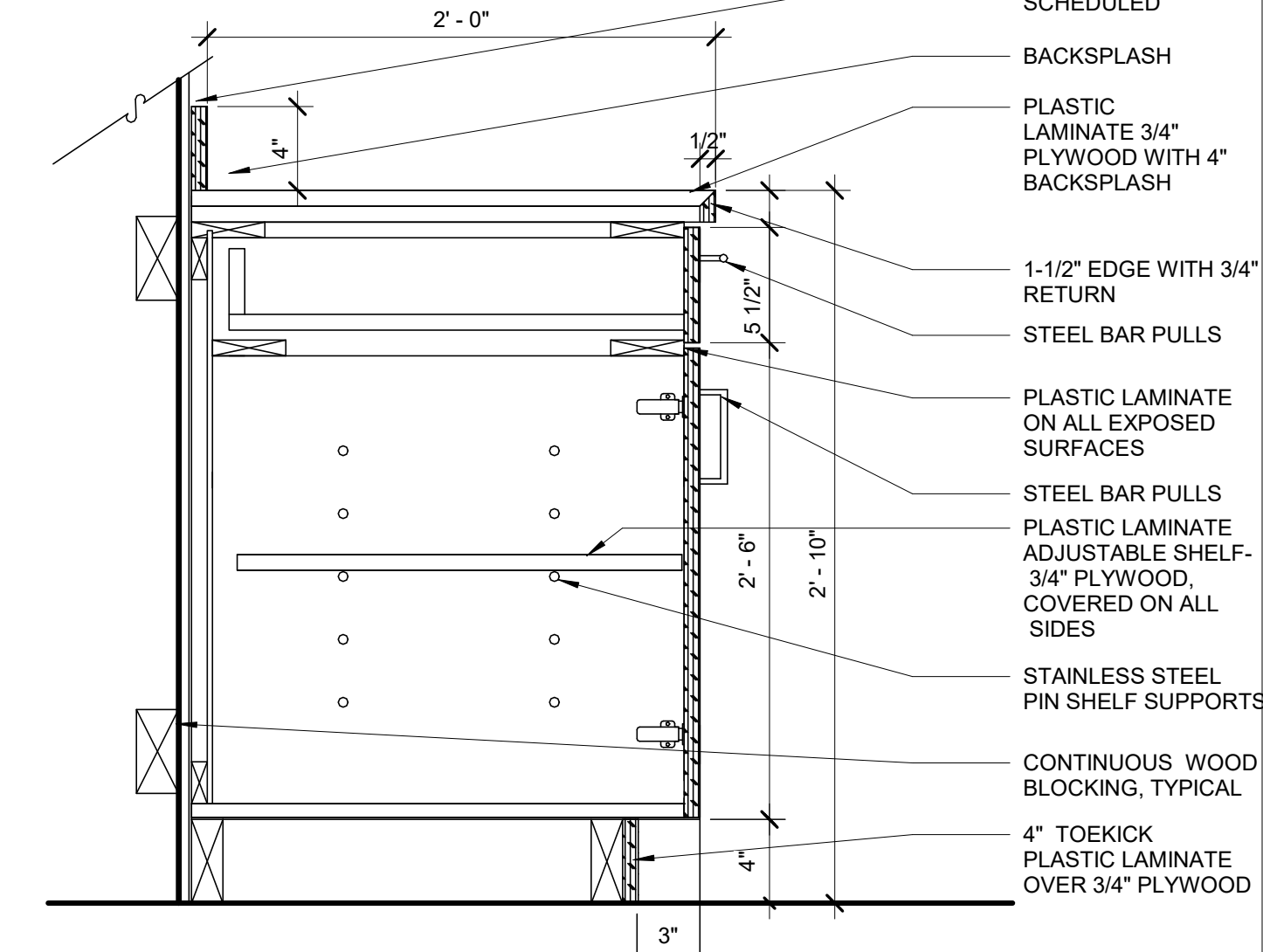
SCALE: 1 1/2" = 1'-0"



MILLWORK SECTION

E7
A800

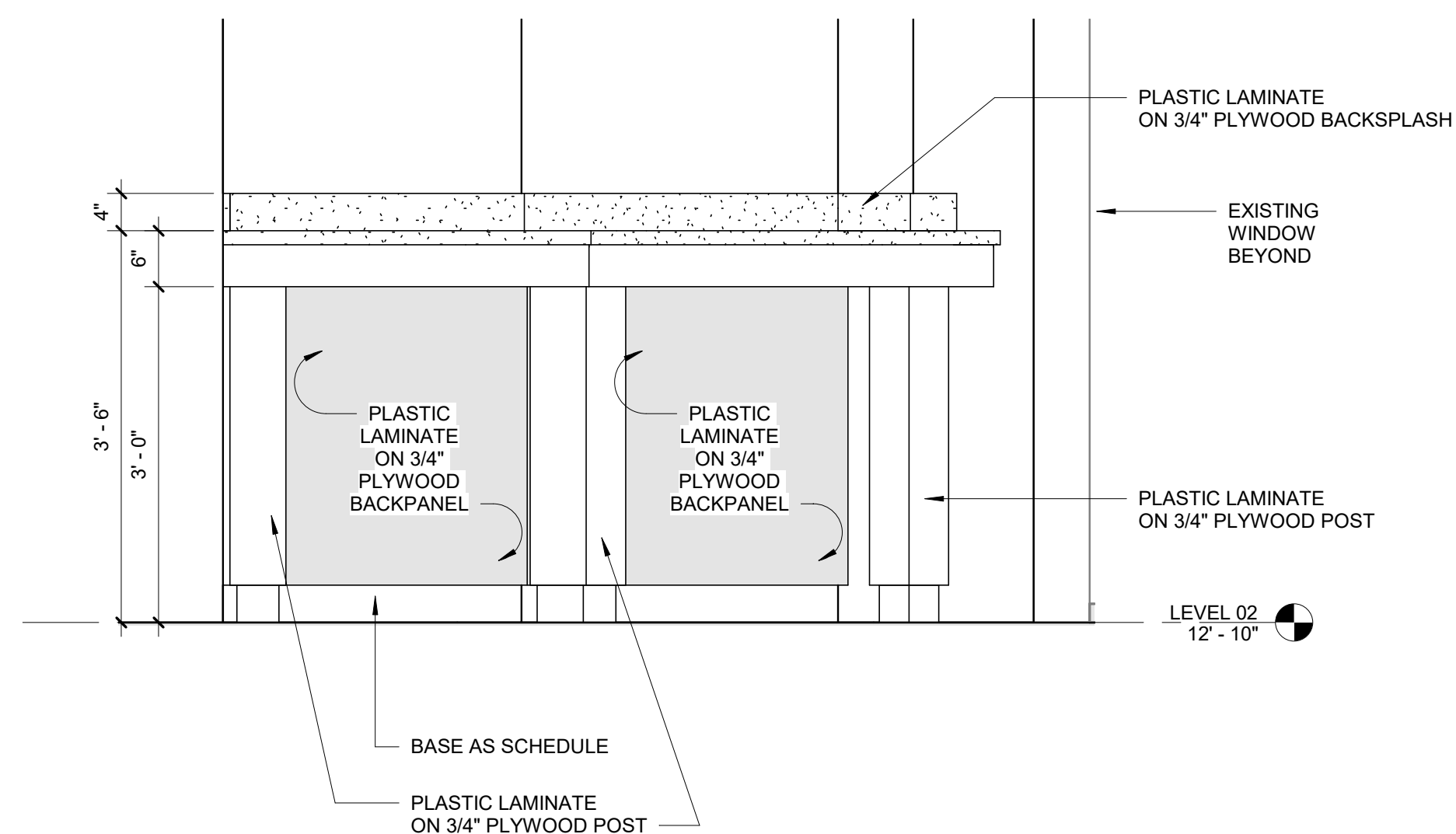
SCALE: 1 1/2" = 1'-0"



MILLWORK SECTION

E9
A800

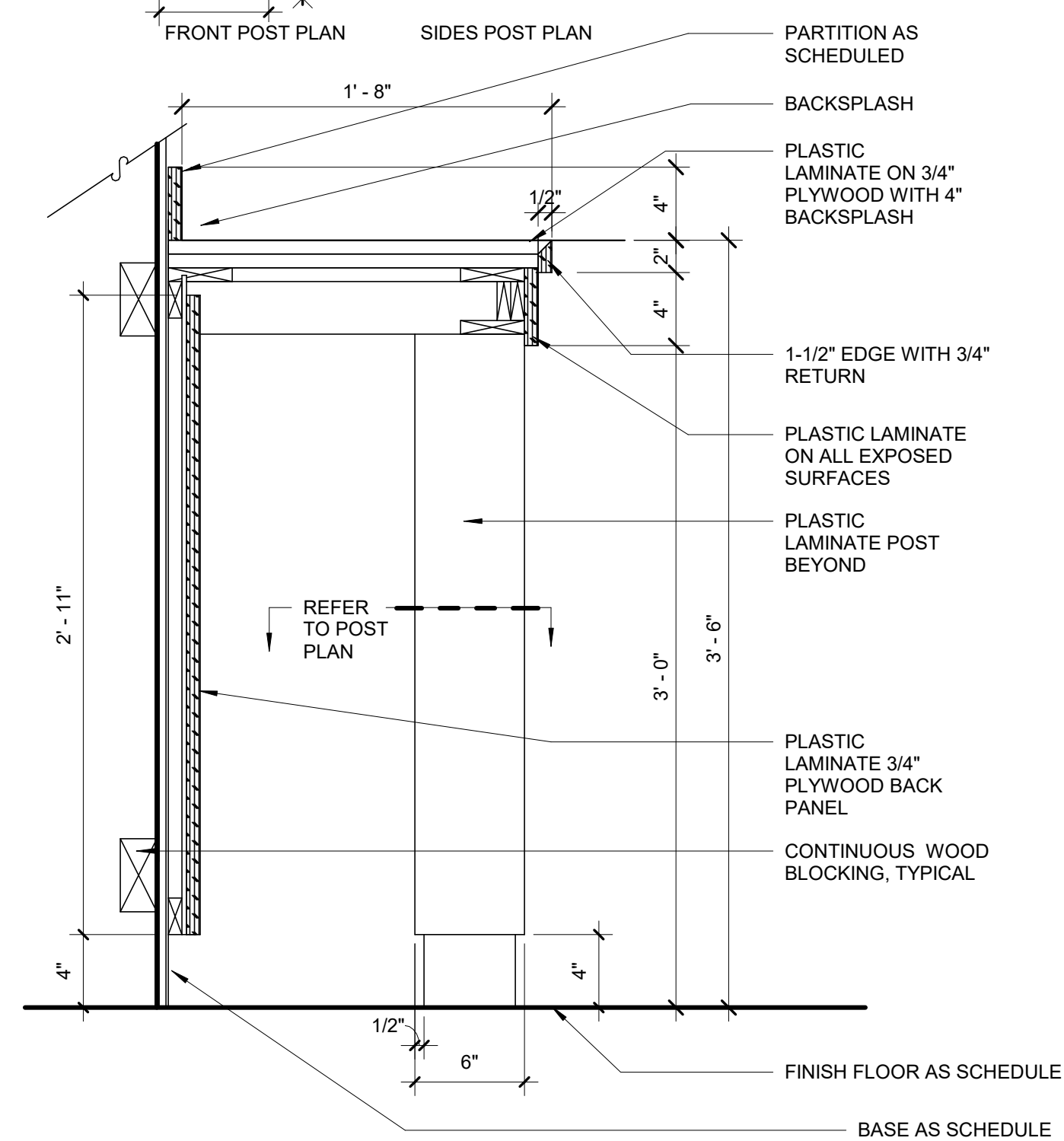
SCALE: 1 1/2" = 1'-0"



MILLWORK ELEVATION

C1
A800

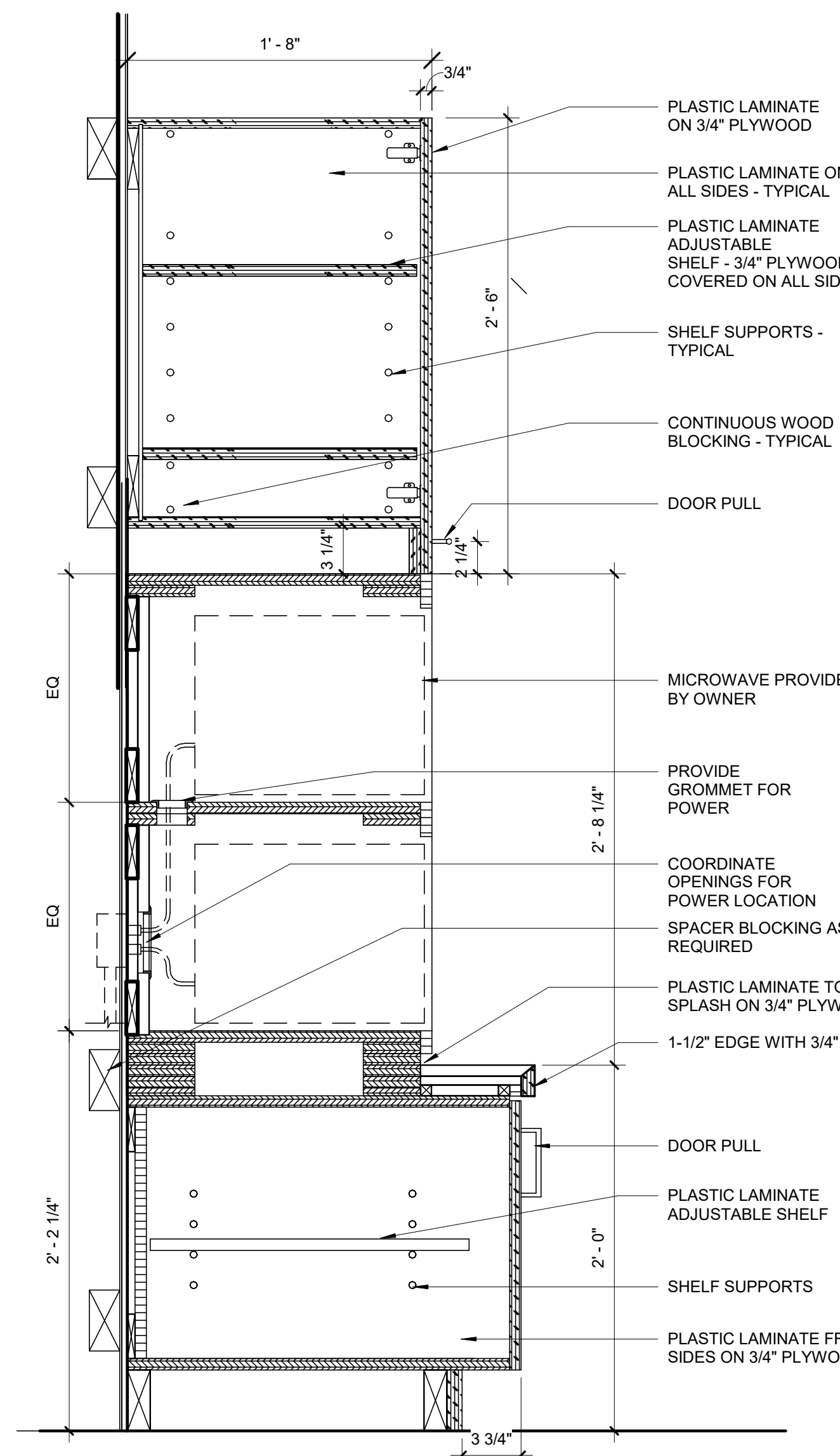
SCALE: 3/4" = 1'-0"



MILLWORK SECTION

C5
A800

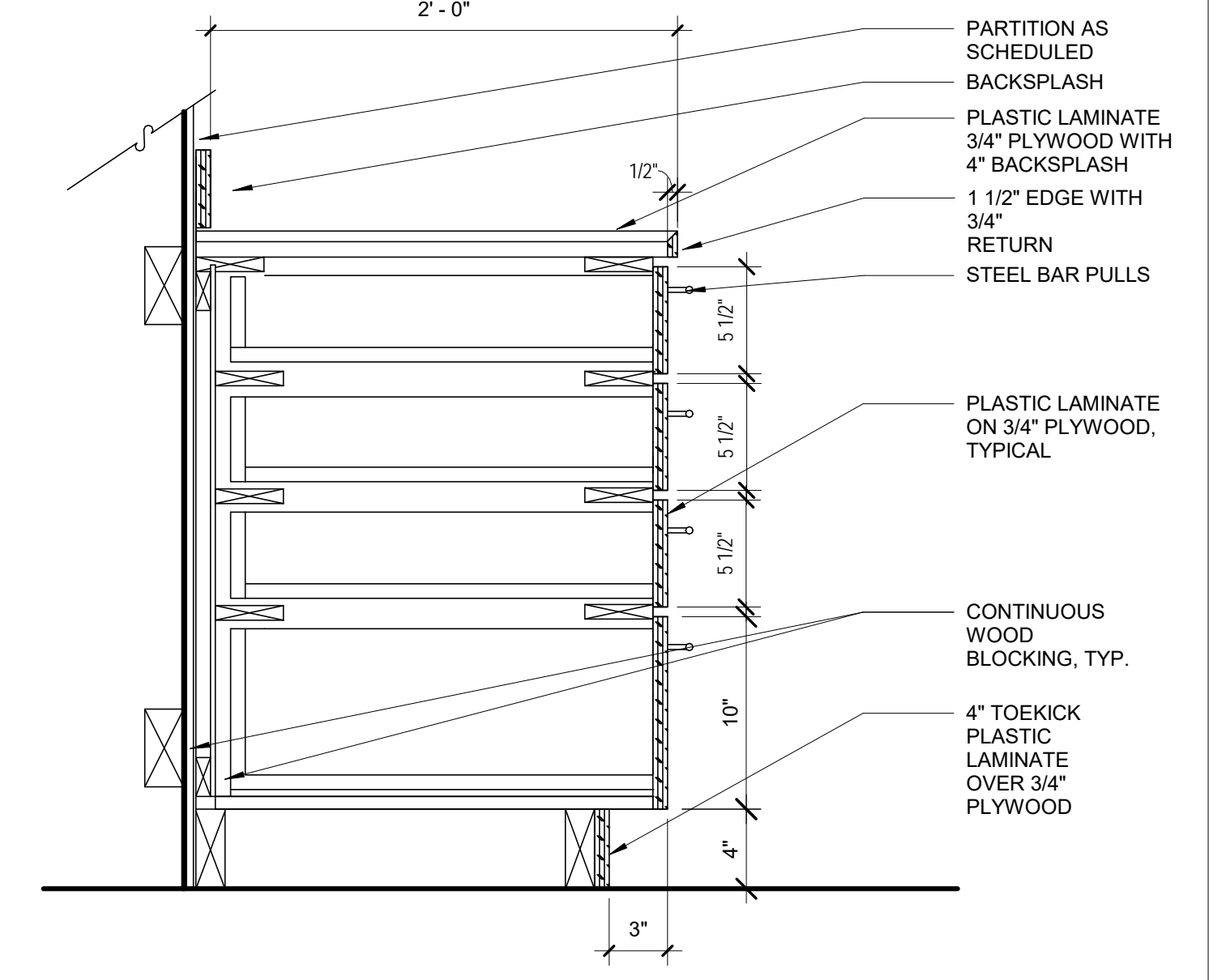
SCALE: 1 1/2" = 1'-0"



MILLWORK SECTION

A7
A800

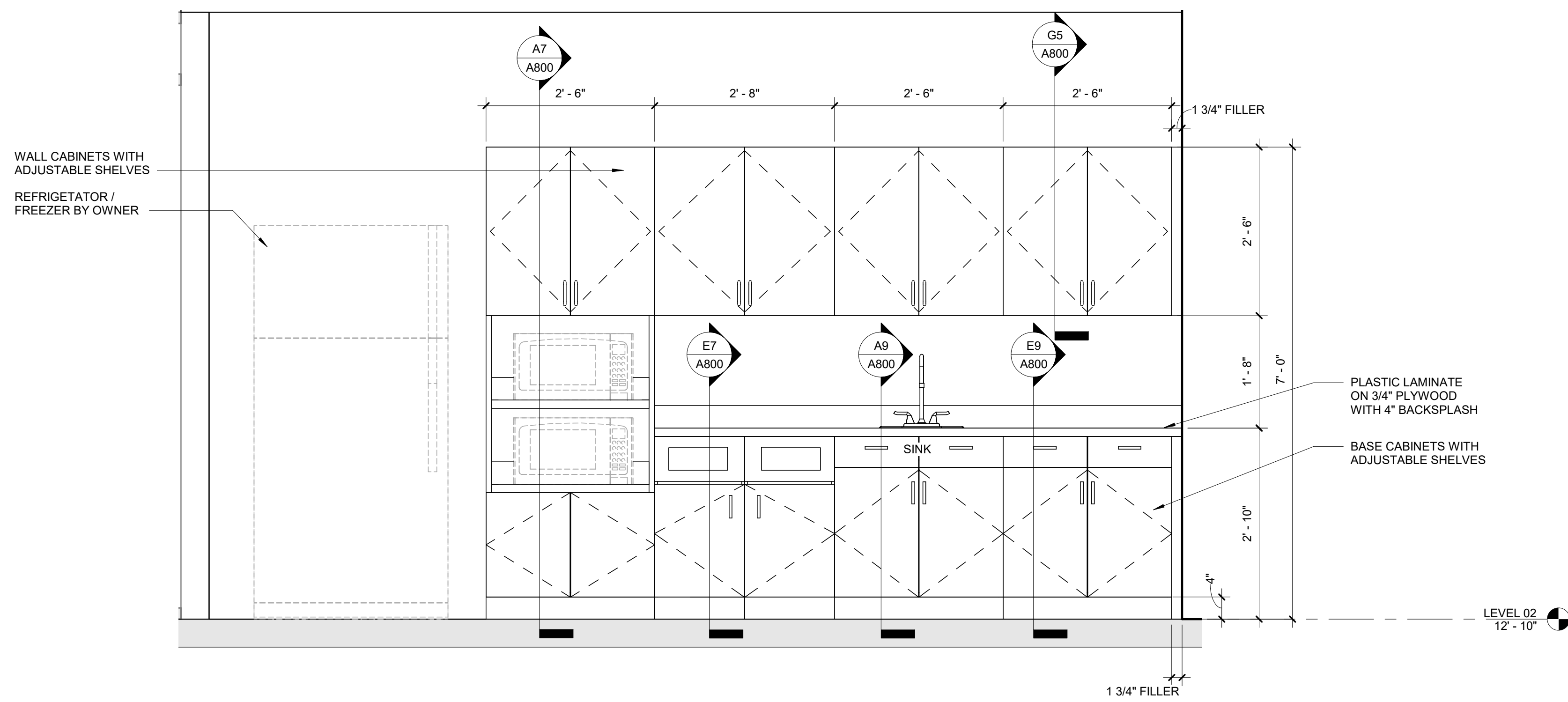
SCALE: 1 1/2" = 1'-0"



MILLWORK SECTION

C9
A800

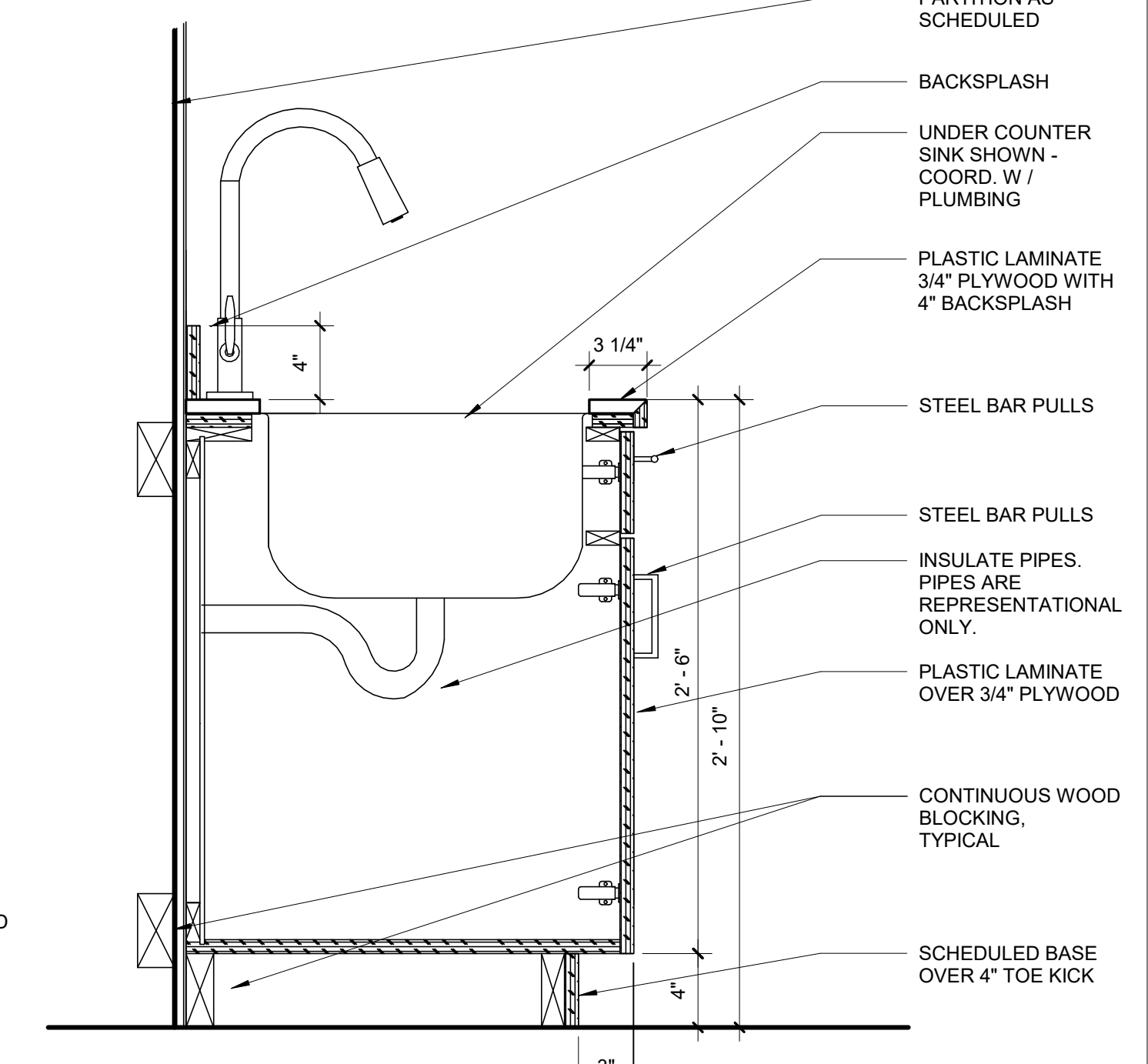
SCALE: 1 1/2" = 1'-0"



MILLWORK ELEVATION

A1
A800

SCALE: 3/4" = 1'-0"



MILLWORK SECTION

A9
A800

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

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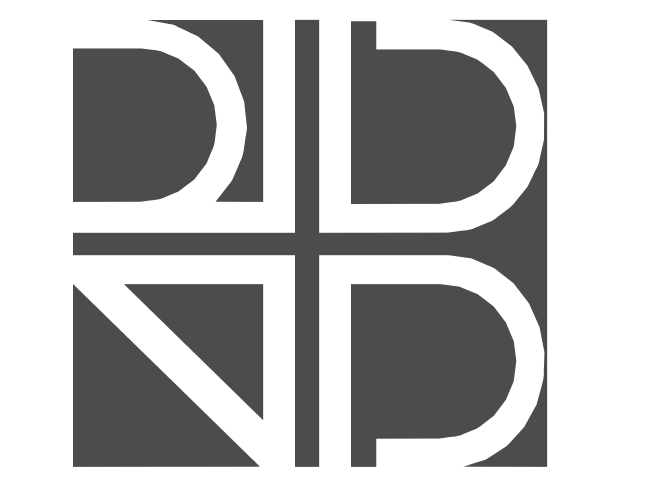
**MILLWORK
ELEVATIONS AND
DETAILS**

SCALE: AS INDICATED
DRAWN BY: MA/AC
CHECK BY: AC/MB
DATE: May 30, 2018
PROJECT NUMBER: 15012-0020

A800

EQUIPMENT PLAN KEYNOTES

- 1 PROVIDE REQUIRED BLOCKING FOR INSTALLATION OF BRACKET FOR TV MOUNTED EQUIPMENT. TV EQUIPMENT TO BE PROVIDED BY OWNER AND INSTALLED BY CONTRACTOR.
- 2 COORDINATE REQUIRED BLOCKING FOR WALL MOUNTED PROJECTORS SCREENS PROVIDED BY OWNER, REFER TO SYSTEMS PACKAGE FOR ADDITIONAL INFORMATION.
- 3 FURNITURE SYSTEMS ARE TO BE PROVIDED BY OWNER AND INSTALL BY FURNITURE SYSTEMS VENDOR. THE ELECTRICAL AND SYSTEMS REQUIREMENTS NECESSARY SHALL BE PREPARED AND COORDINATED PRIOR TO INSTALLATION.
- 4 ROLLER SHADES TO PROVIDED AND INSTALLED BY GENERAL CONTRACTOR.
- 5 PROVIDE IN-CARPET WIREWAY CONNECTOR PRIOR TO INSTALLATION OF CARPET AND FURNITURE. CONTRACTOR TO COORDINATE REQUIRED LOCATION WITH OWNER AND FURNITURE SYSTEMS VENDOR.
- 6 HIGH DENSITY STORAGE SYSTEM TO BE RELOCATED BY OWNER AND FURNITURE SYSTEMS VENDOR.



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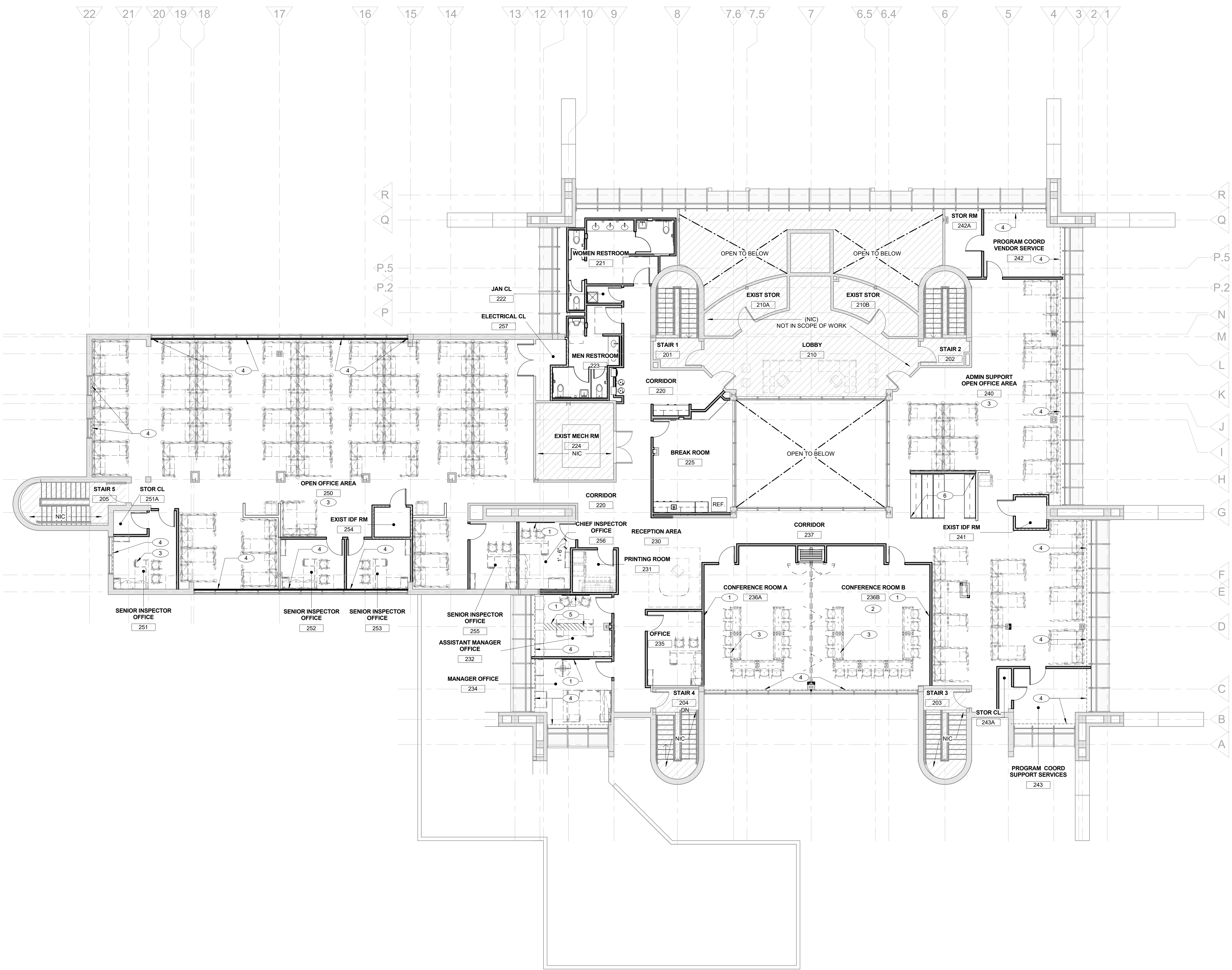
DATE	SUBMISSION / REVISION	NO.

EQUIPMENT PLAN

SCALE: AS INDICATED
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CHECK BY: AC/MB
DATE: May 30, 2018
PROJECT NUMBER: 15012-0020

EQUIPMENT PLAN GENERAL NOTES

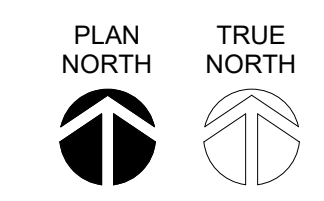
- A FURNITURE IS UNDER SEPARATE CONTRACT AND IS SHOWN FOR REFERENCE ONLY.
- B COORDINATE FINAL LAYOUT WITH ORANGE COUNTY CODE ENFORCEMENT REPRESENTATIVE.
- C HATCHED AREAS INDICATE AREAS NOT IN SCOPE OF WORK.
- D GC TO COORDINATE GROMMETS WITH TECHNOLOGY AND MANUFACTURERS.
- E MECOSHADOWS BY OWNER AND INSTALLED BY CONTRACTOR.



A7
A900

EQUIPMENT PLAN LEVEL 02

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

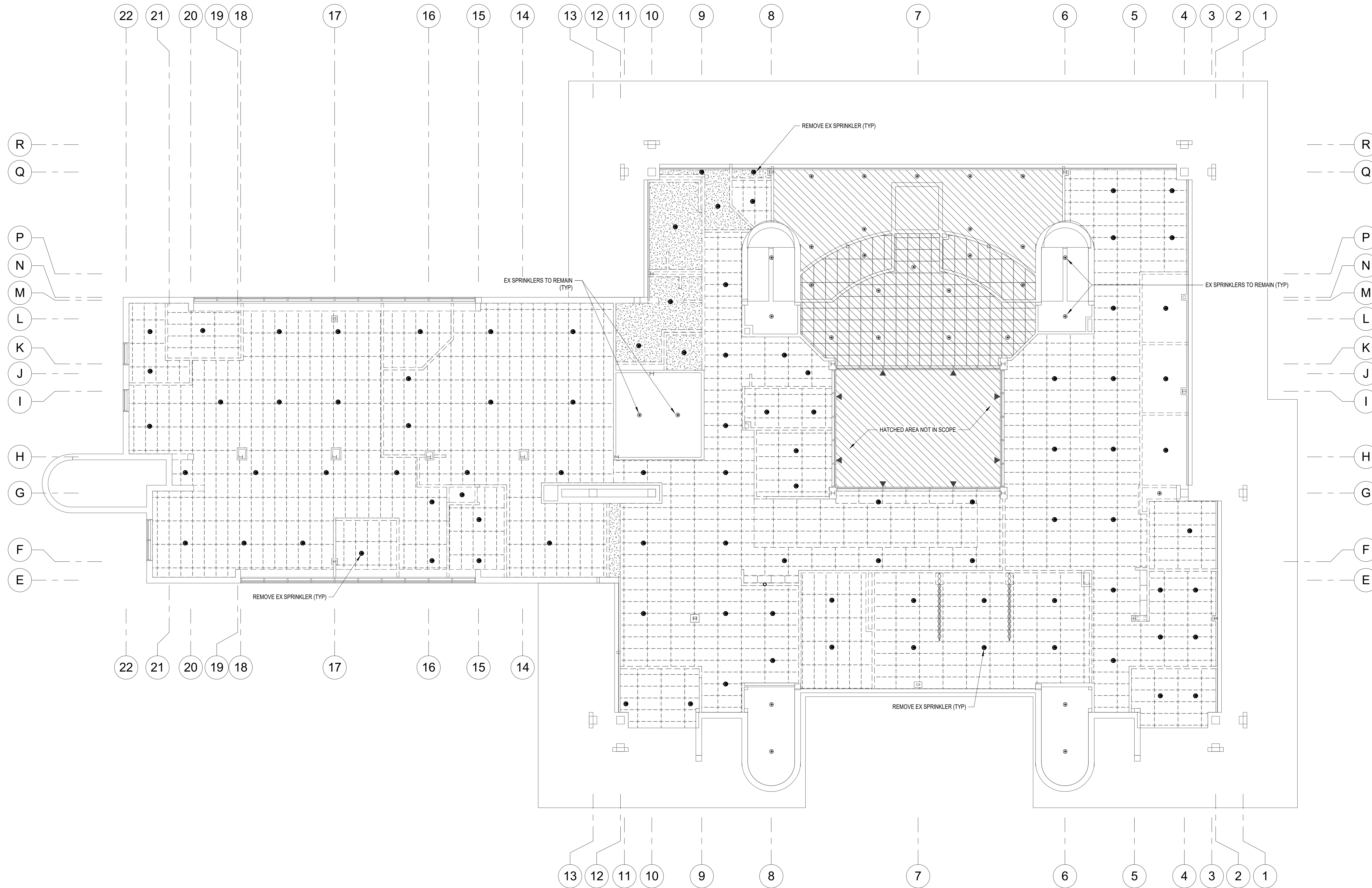


A900

SPRINKLER SYSTEM IMPAIRMENT NOTES

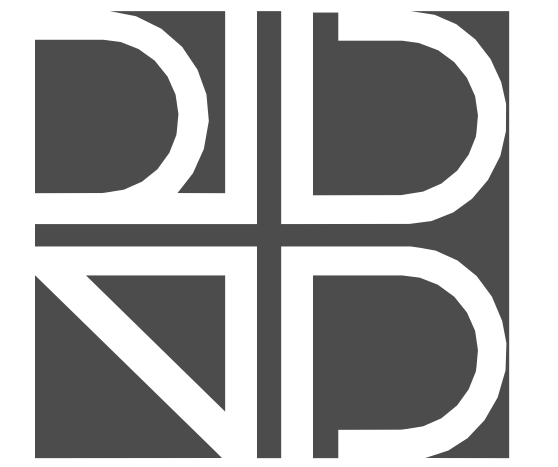
SPRINKLER SYSTEM IMPAIRMENT NOTES:

1. PRIOR TO REMOVING ANY FIRE PROTECTION SYSTEM FROM SERVICE THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE OWNER, LOCAL FIRE DEPARTMENT AND CODE ENFORCEMENT OFFICIAL IN WRITING A MINIMUM OF 48 HOURS BEFORE HAND THAT THE SYSTEM IS TO BE REMOVED FROM SERVICE. THE NOTIFICATION SHALL INCLUDE THE DATE AND TIME THE SYSTEM WILL BE REMOVED FROM SERVICE AND THE PROJECTED DATE AND TIME THE SYSTEM WILL BE RESTORED.
2. DURING ANY FIRE PROTECTION SYSTEM OUTAGES THE BUILDING SHALL BE PROVIDED WITH A FIRE WATCH AS REQUIRED BY THE FIRE CODE OF FLORIDA. THE SOLE RESPONSIBILITY OF THE INDIVIDUAL ASSIGNED TO THE WATCH SHALL BE TO PERFORM CONSTANT PATROLS OF THE IMPAIRED AREA TO KEEP WATCH FOR FIRES. THE FIRE WATCH SHALL BE PROVIDED WITH AN APPROVED MEANS OF NOTIFICATION FOR THE FIRE DEPARTMENT.
3. THE FIRE DEPARTMENT CONNECTION SHALL BE AFFIXED WITH A OUT OF SERVICE SIGN WHENEVER THE SPRINKLER SYSTEM MAIN CONTROL VALVE IS CLOSED. THE SIGN SHALL BE PROVIDED, INSTALLED AND POLICED BY THE FIRE PROTECTION CONTRACTOR.
4. ALL FIRE PROTECTION SYSTEM IMPAIRMENTS SHALL OCCUR IN ACCORDANCE WITH THE FLORIDA FIRE PREVENTION CODE, 5TH EDITION.
5. THE SYSTEM IMPAIRMENT FOR THE RENOVATION SHALL BE CONDUCTED AS A PRE-PLANNED IMPAIRMENT. TO MINIMIZE THE IMPAIRMENT TIME ALL NECESSARY TOOLS AND MATERIALS SHALL BE ASSEMBLED ONSITE PRIOR TO REMOVING THE SYSTEM FROM SERVICE.
6. WITHIN 24 HOURS OF RESTORING ANY FIRE PROTECTION SYSTEM TO SERVICE THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE IN WRITING TO THE OWNER, LOCAL FIRE DEPARTMENT AND CODE ENFORCEMENT OFFICIAL CERTIFICATION THAT THE FOLLOWING HAS BEEN IMPLEMENTED:
 - A. ALL INSPECTIONS AND TEST HAVE BEEN COMPLETED TO INSURE THE AFFECTED SYSTEM IS OPERATIONAL.
 - B. THE IMPAIRMENT TAG HAS BEEN REMOVED.
 - C. THE OWNER AND/OR OCCUPANT HAVE BEEN INSTRUCTED ON THE OPERATION OF THE SYSTEM.
 - D. THE THIRD PARTY MONITORING COMPANY HAS BEEN ADVISED THAT THE SYSTEM IS IN SERVICE.



1 SECOND FLOOR SPRINKLER DEMOLITION

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



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82715

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**SECOND FLOOR
SPRINKLER
DEMOLITION**

SCALE: AS INDICATED

DRAWN BY: B. CURRIE

CHECK BY: M. McQUINN

DATE: 05/30/2018

PROJECT NUMBER: 1502-0020

XFP-201

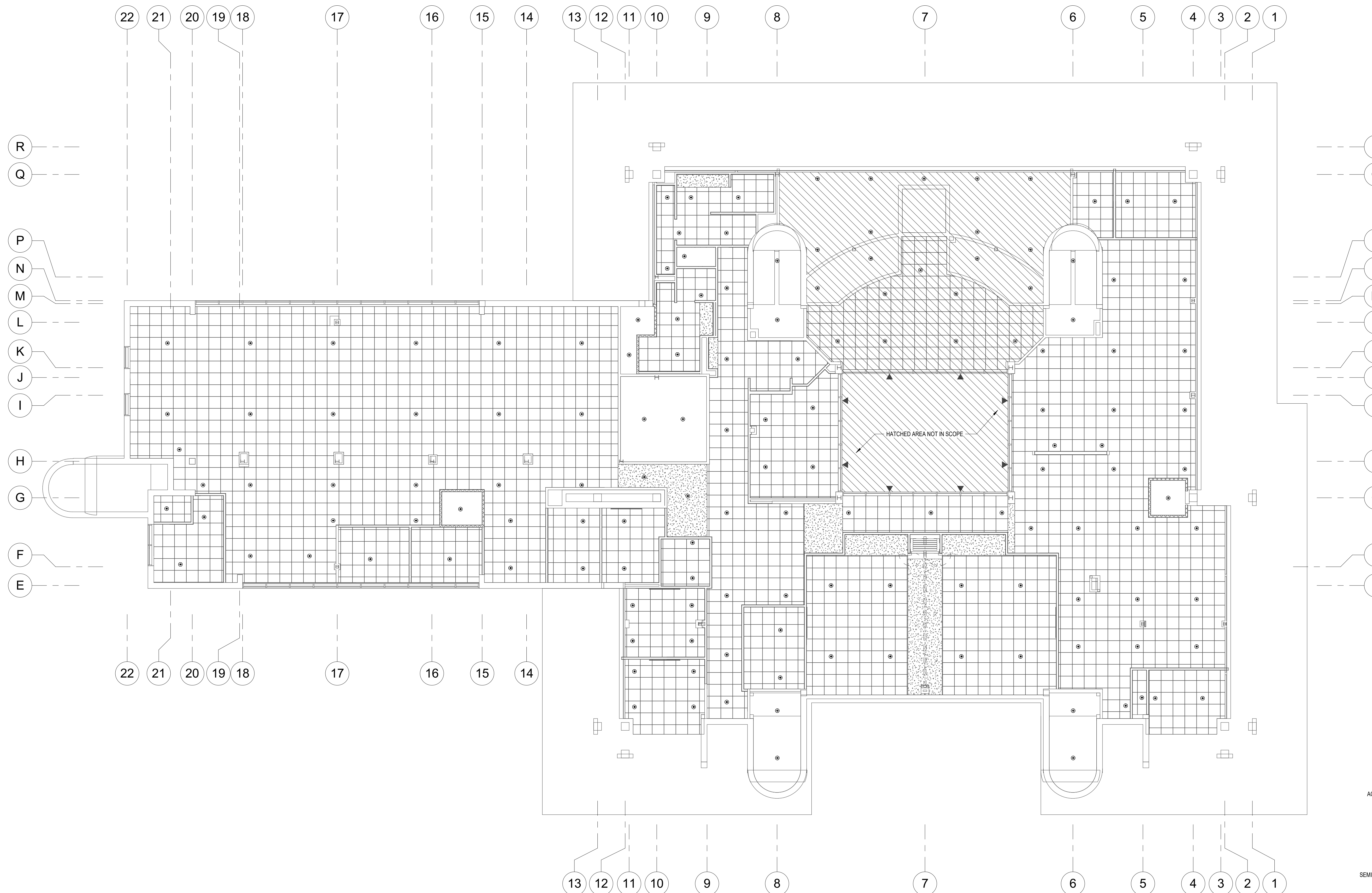
GENERAL NOTES

SPRINKLER SYSTEM GENERAL NOTES:

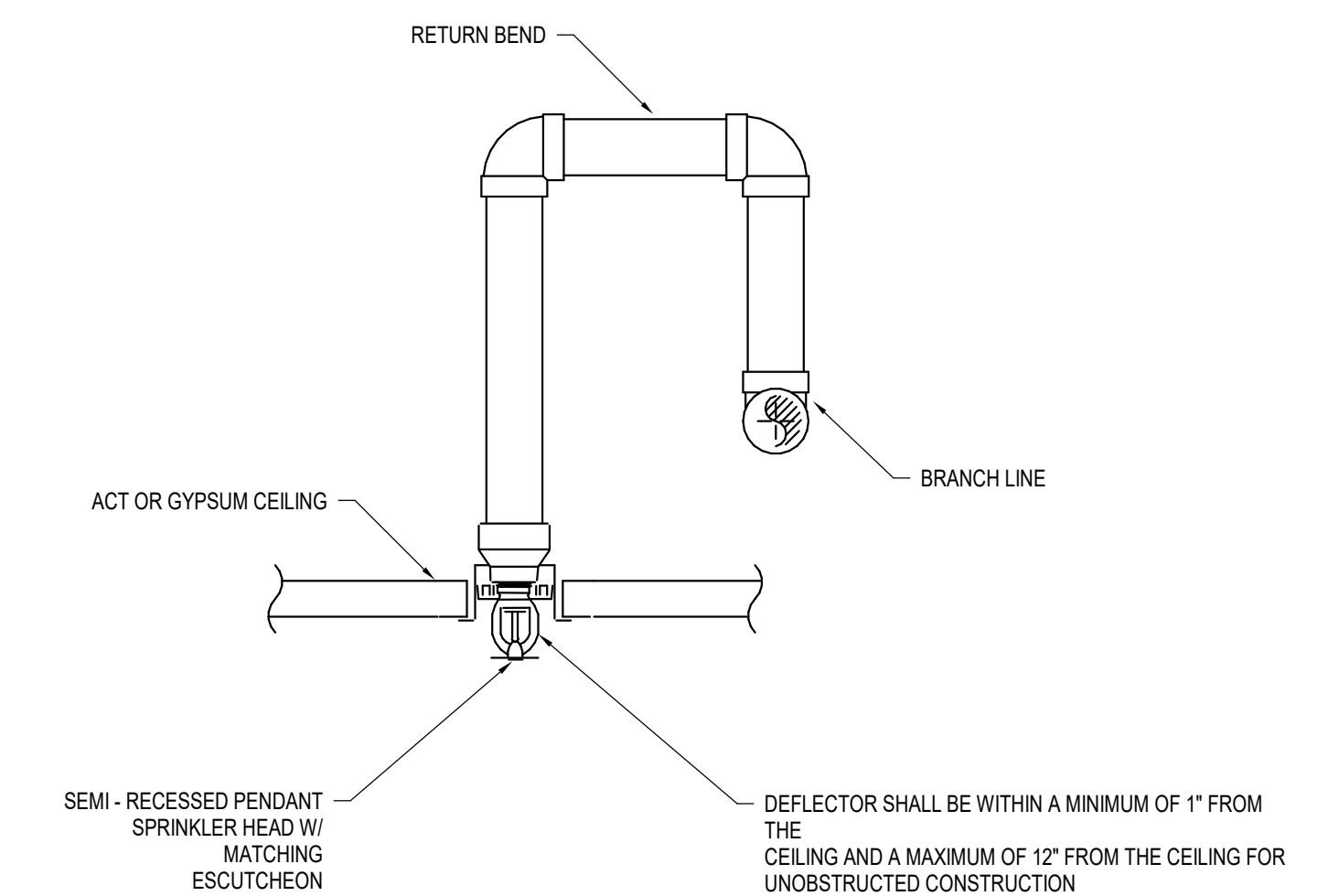
1. SPRINKLER SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13 AND THE FIRE CODE OF FLORIDA. CONTRACTOR IS RESPONSIBLE FOR FINAL SPRINKLER SYSTEM LAYOUT. CONTRACTOR SHALL PROVIDE ALL MATERIALS REQUIRED FOR A FULLY OPERATIONAL SPRINKLER SYSTEM.
2. DRAWINGS HEREIN REPRESENT A COORDINATED SPRINKLER LAYOUT. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH OTHER BUILDING SYSTEMS & DEVICES WHETHER SHOWN OR NOT.
3. CONTRACTOR SHALL ENSURE EXISTING SYSTEM HYDRAULIC CALCULATIONS REMAIN UNALTERED BY WORK OF THIS SCOPE.
4. SPRINKLER SYSTEM HYDRAULIC CALCULATIONS SHALL INCORPORATE A MINIMUM 10% SAFETY FACTOR.
5. ALL SPRINKLERS IN AREAS WITH ACT SHALL BE MOUNTED CENTER OF TILE IN 2' x 2' GRIDS, AND CENTERED IN 1/2 OF TILE IN 2' x 4' GRIDS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR CEILING FINISHES/TYPES.
6. SPRINKLERS SHALL BE QUICK RESPONSE TYPE UNLESS OTHERWISE NOTED.
7. ALL PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE APPROPRIATELY FIRE STOPPED.

SYMBOL LEGEND

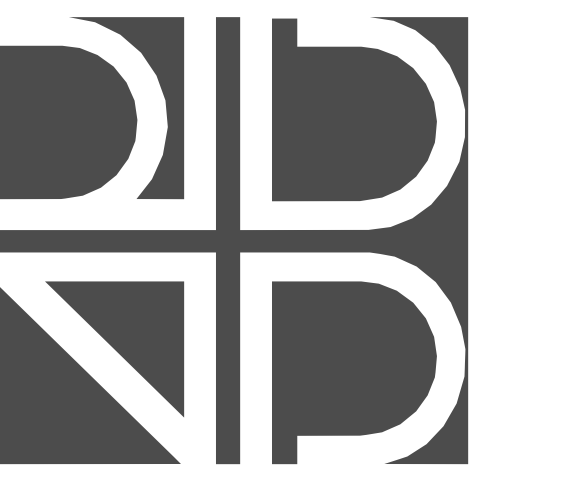
- ⊙ PENDENT SPRINKLER
- ◀ SIDEWALL SPRINKLER



1 SECOND FLOOR SPRINKLER LAYOUT
SCALE: 1/8" = 1'-0"



2 SEMI-RECESSED PENDENT SPRINKLER HEAD DETAIL
SCALE: NOT TO SCALE



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SECOND FLOOR SPRINKLER LAYOUT

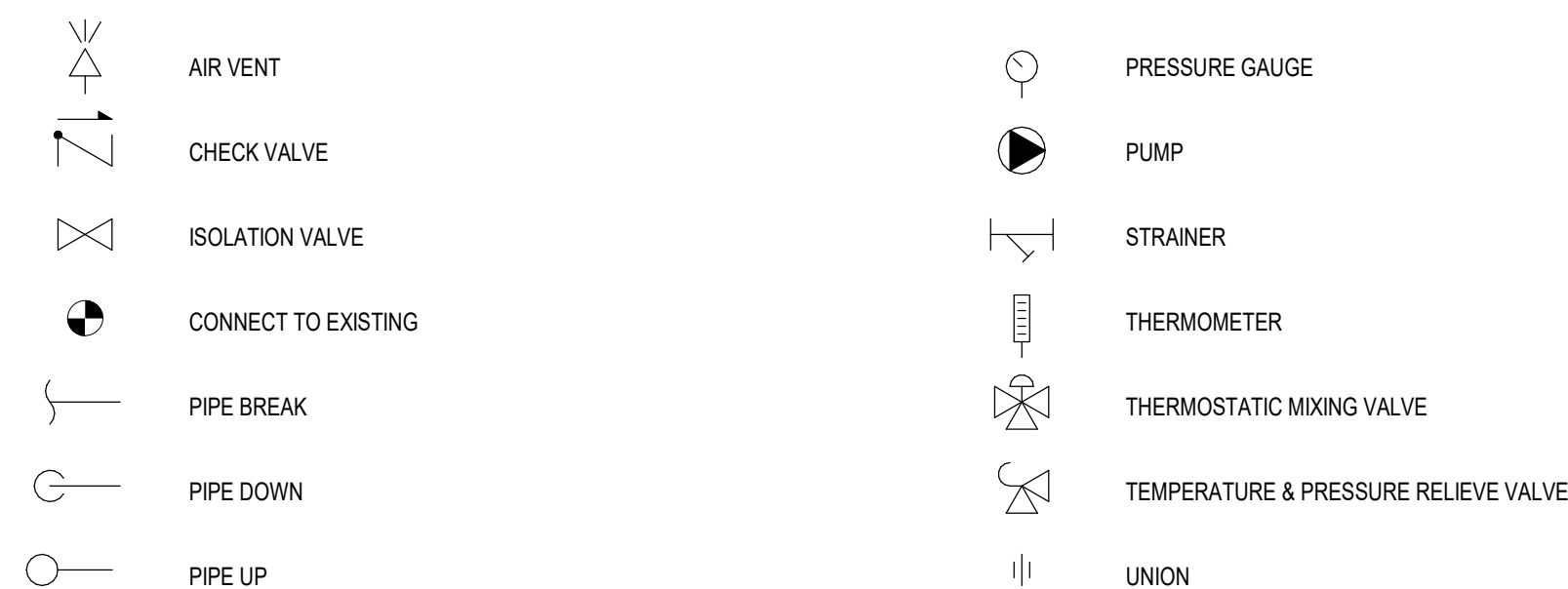
SCALE: AS INDICATED
DRAWN BY: B. CURRIE
CHECK BY: M. McQUINN
DATE: 05/30/2018
PROJECT NUMBER: 1502-0020

FP-201

GENERAL NOTES

- ALL PIPE DIMENSIONS ARE NOMINAL.
- ALL WORK SHALL CONFORM TO ALL APPLICABLE RULES, REGULATIONS, AND LOCAL CODES.
- CONTRACTOR SHALL FIELD VERIFY ALL PIPE LOCATIONS AND DIMENSIONS INDICATED ON PLANS.
- CONTRACTOR SHALL PERFORM NECESSARY CUTTING AND PATCHING REQUIRED TO INCORPORATE WORK, UNLESS NOTED OR SHOWN OTHERWISE ON PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL PENETRATIONS RELATED TO PLUMBING SCOPE.
- ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PRINTED INSTRUCTIONS AND/OR MANUFACTURERS REPRESENTATIVE'S DIRECTIONS.
- CONTRACTOR TO INSTALL ALL NECESSARY SUPPORTS, HANGERS, BRACES, STRUTS, ETC., WHETHER SHOWN OR NOT, TO PROVIDE A COMPLETE, SAFE AND DURABLE SYSTEM.
- COORDINATE WORK OF THIS CONTRACT WITH OTHER CONTRACTORS AND EXISTING CONDITIONS.
- PROVIDE FITTINGS, ELEVATION CHANGES, TRANSITIONS AND OFFSETS REQUIRED, WHETHER SHOWN OR NOT, TO AVOID CONFLICTS WITH WORK OF OTHER TRADES AND EXISTING CONDITIONS.

SYMBOL LEGEND



ABBREVIATIONS

- AFF ABOVE FINISHED FLOOR
 BOP BOTTOM OF PIPE
 DCW DOMESTIC COLD WATER
 DHW DOMESTIC HOT WATER
 EX EXISTING
 SAN SANITARY
 V VENT
 W WASTE

PLUMBING SCHEDULES

PLUMBING FIXTURE SCHEDULE									
MARK	QTY	DESCRIPTION	BASIS OF DESIGN (OR APPROVED EQUAL)			CW CONN (IN)	HW CONN (IN)	WASTE CONN (IN)	VENT CONN (IN)
			MANUFACTURER	MODEL					
EW-1	1	ELECTRIC WATER COOLER	ELKAY	ERF22FK	1/2	-	1-1/2	1-1/2	
FO-1	1	FLOOR CLEANOUT	WATTS	CO-1204-R	-	-	4	-	
FD-1	8	3" FLOOR DRAIN WITH STRAINER	ZURN INDUSTRIES	Z415-3IC-6B	-	-	3	-	
LAV-1	5	COUNTER-MOUNTED LAVATORY	SLOAN	SS-3002	1/2	1/2	2	2	
LAV-2	2	WALL-MOUNTED LAVATORY	AMERICAN STANDARD	ISECORUM	1/2	1/2	2	2	
MB-1	1	MOP BASIN	FLORESTONE	MODEL 96	1/2	1/2	3	-	
SK-1	1	COUNTER-MOUNTED SINK	ELKAY	LR2522	1/2	1/2	2	2	
UR-1	1	0.5/1.0 GPF URINAL	AMERICAN STANDARD	WASHBROOK FLOWISE	3/4	-	2	2	
WC-1	3	1.6 GPF WATER CLOSET	AMERICAN STANDARD	MILLENNIUM FLOWISE	1-1/4	-	-	-	
WC-2	2	1.6 GPF ADA WATER CLOSET	AMERICAN STANDARD	MILLENNIUM FLOWISE	1-1/4	-	-	-	

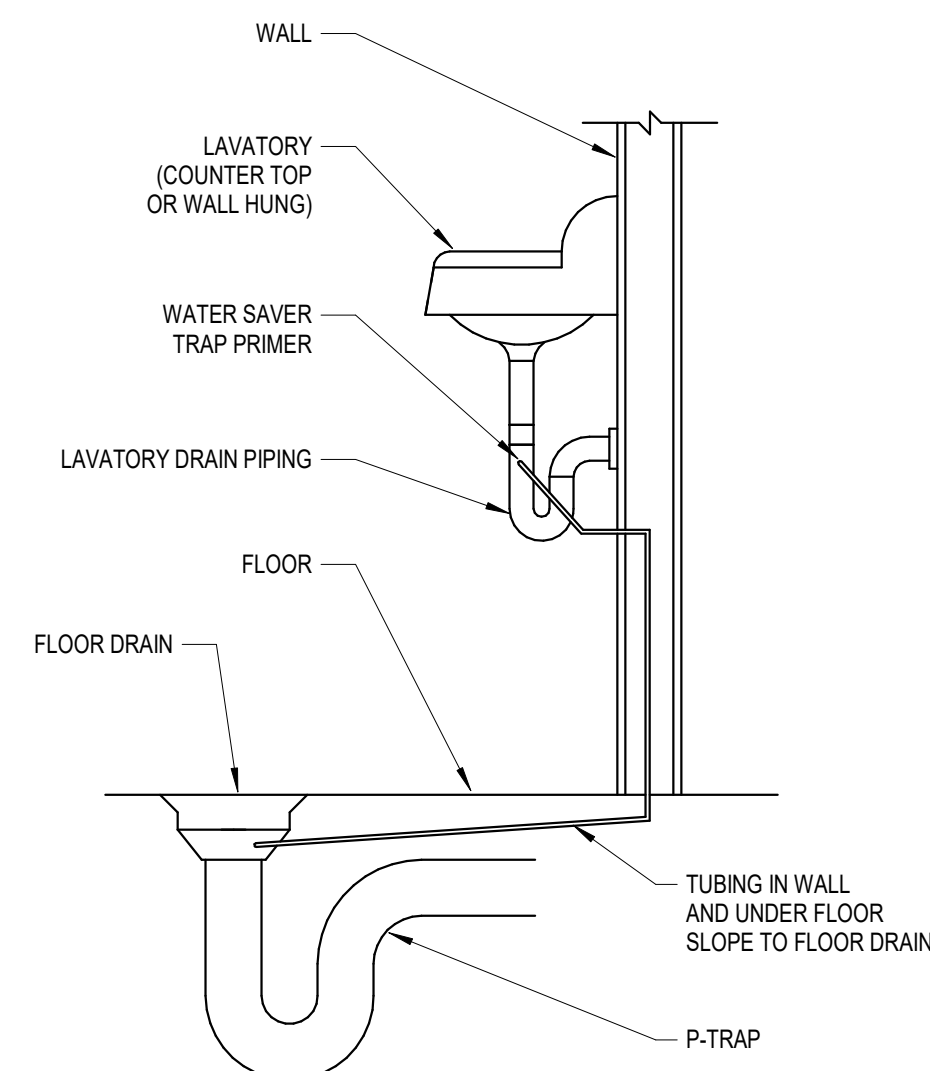
NOTE: CONTRACTOR SHALL REFER TO SPECIFICATIONS FOR COMPLETE FIXTURE AND MATERIAL SPECIFICATIONS

ELECTRIC WATER HEATER SCHEDULE					
MARK	MANUFACTURER	DESCRIPTION	CAPACITY (GAL)	VOLTAGE	POWER (W)
EW-1	RHEEM	TANK WATER HEATER	10	277	2000

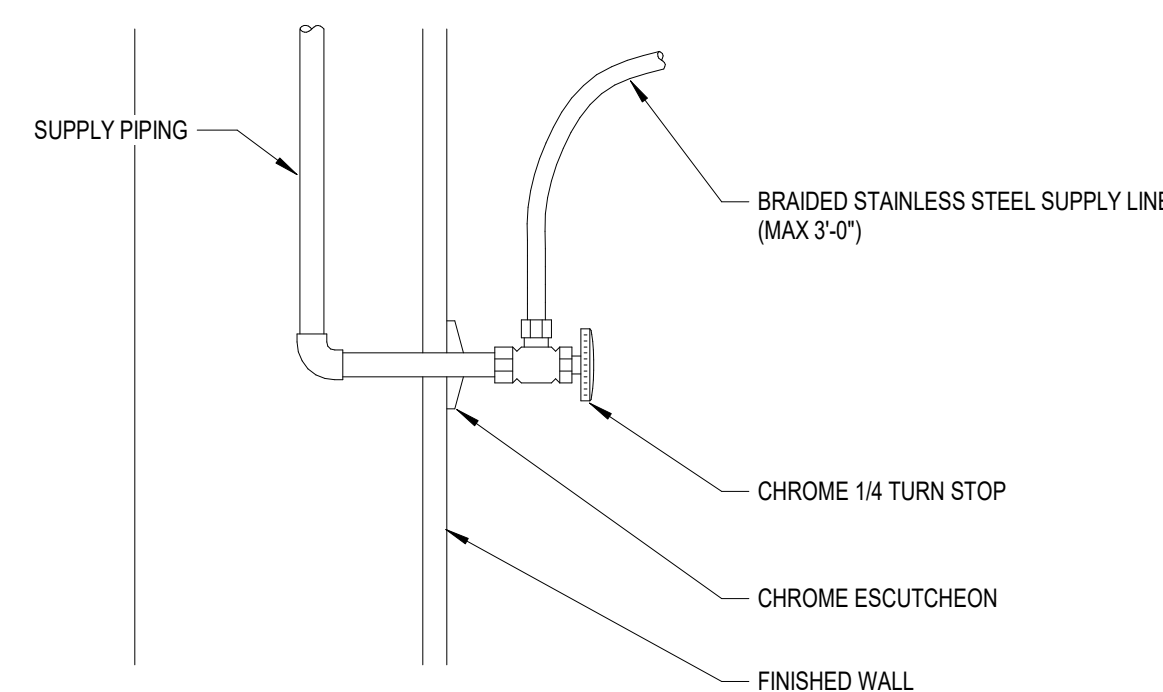
EXPANSION TANK SCHEDULE					
MARK	DESCRIPTION	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MANUFACTURER	MODEL
EXP-1	4.4 GAL EXPANSION TANK	4.4	3.2	AMTRON	THERM-X-TROL ST-12

PUMP SCHEDULE					
MARK	MANUFACTURER	DESCRIPTION	MODEL	FLOW (GPM)	HEAD (FT)
DHWP-1	TACO	INLINE CIRCULATOR	IL-006	4	6

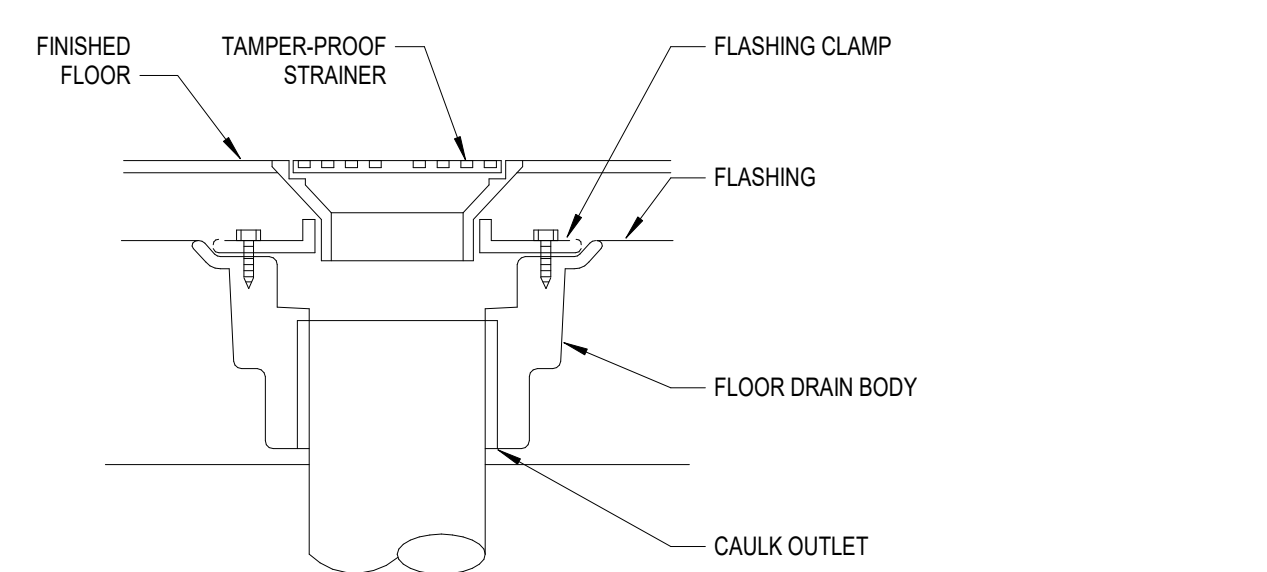
- CONTRACTOR SHALL PROVIDE BALANCING VALVE WITH PUMP TO ACHIEVE PRESSURE HEAD



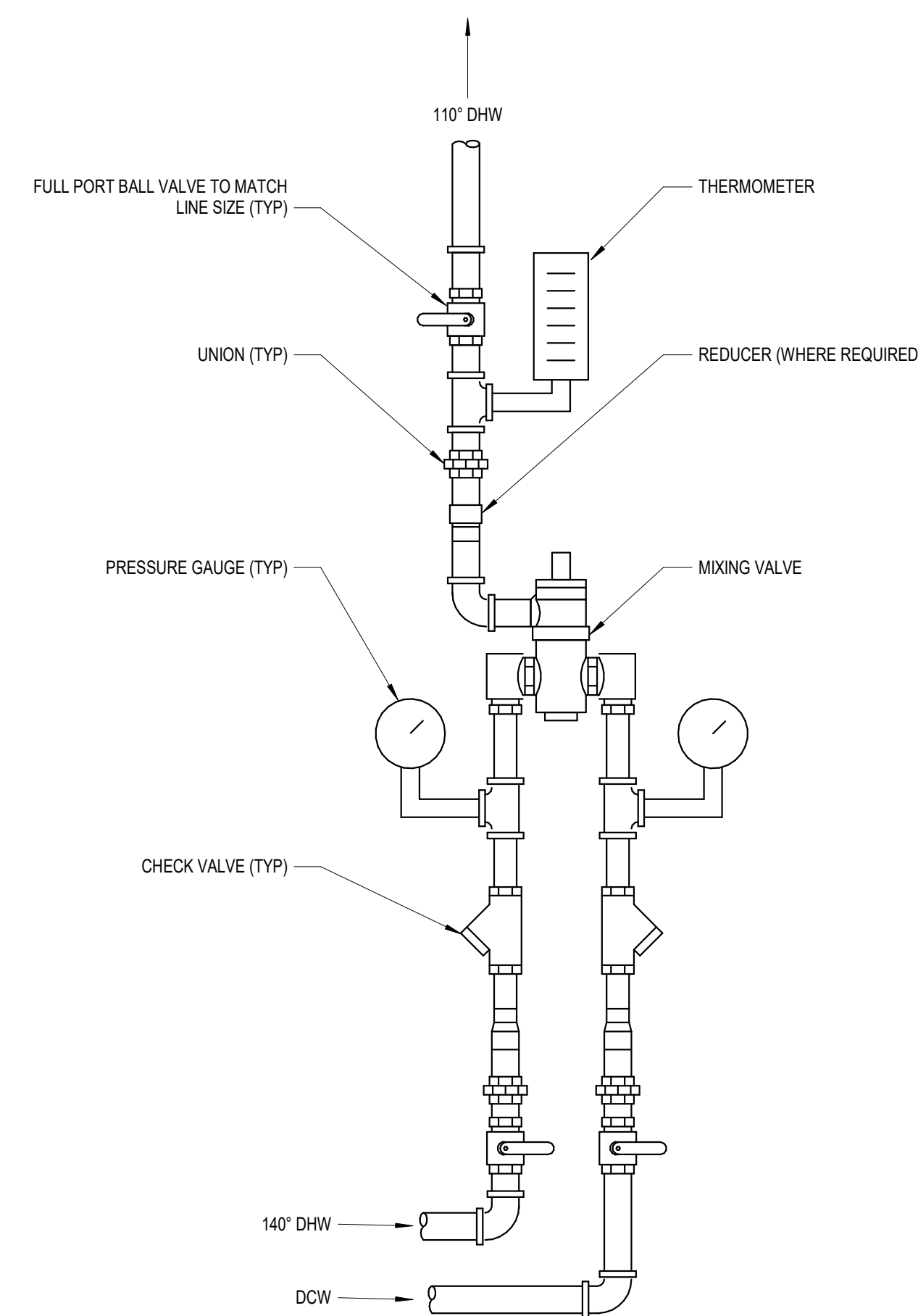
4 WATER SAVER TRAP PRIMER DETAIL
SCALE: NOT TO SCALE



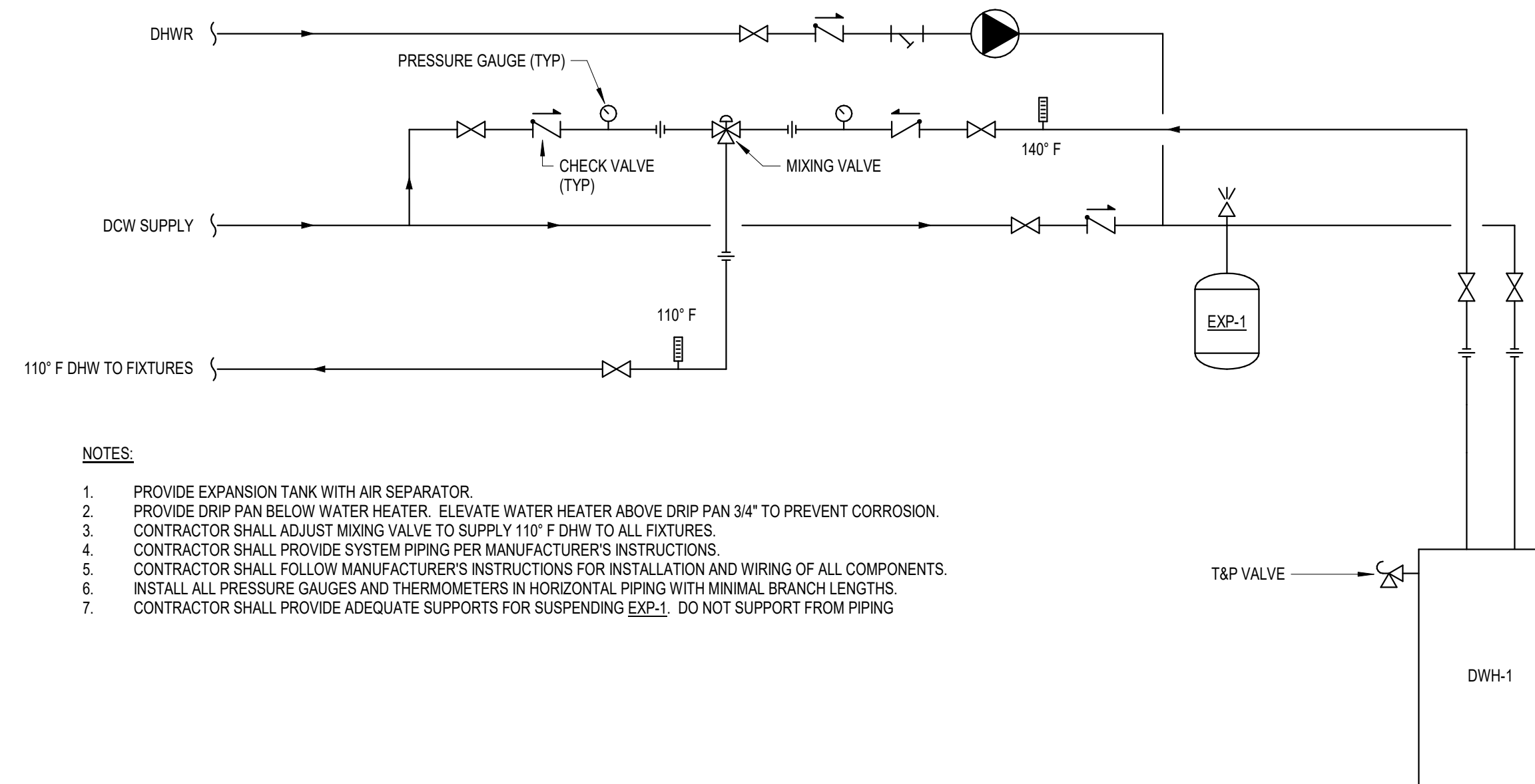
3 TYPICAL FIXTURE ROUGH IN
SCALE: NOT TO SCALE



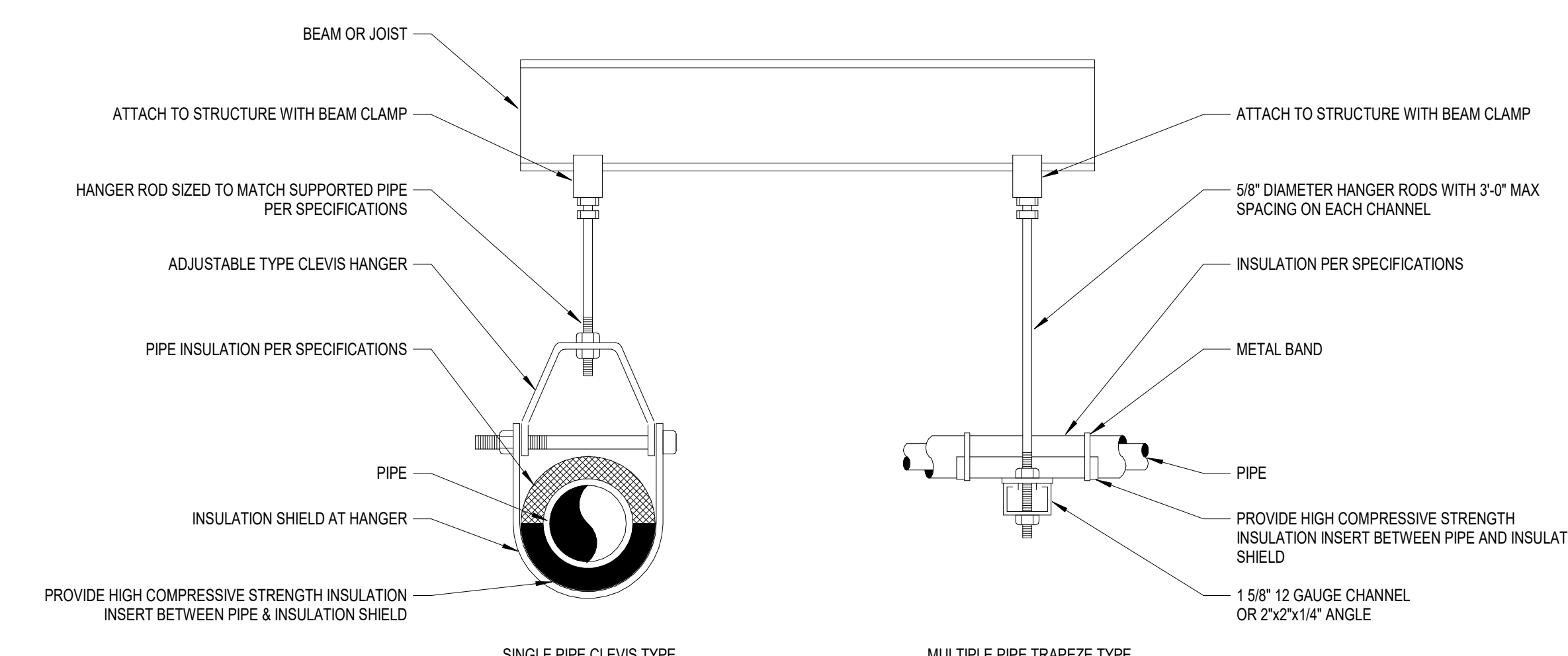
2 FLOOR DRAIN DETAIL
SCALE: NOT TO SCALE



1 DOMESTIC MIXING VALVE DETAIL
SCALE: NOT TO SCALE



6 DOMESTIC WATER HEATER DETAIL
SCALE: NOT TO SCALE



5 PIPE HANGER DETAIL
SCALE: NOT TO SCALE

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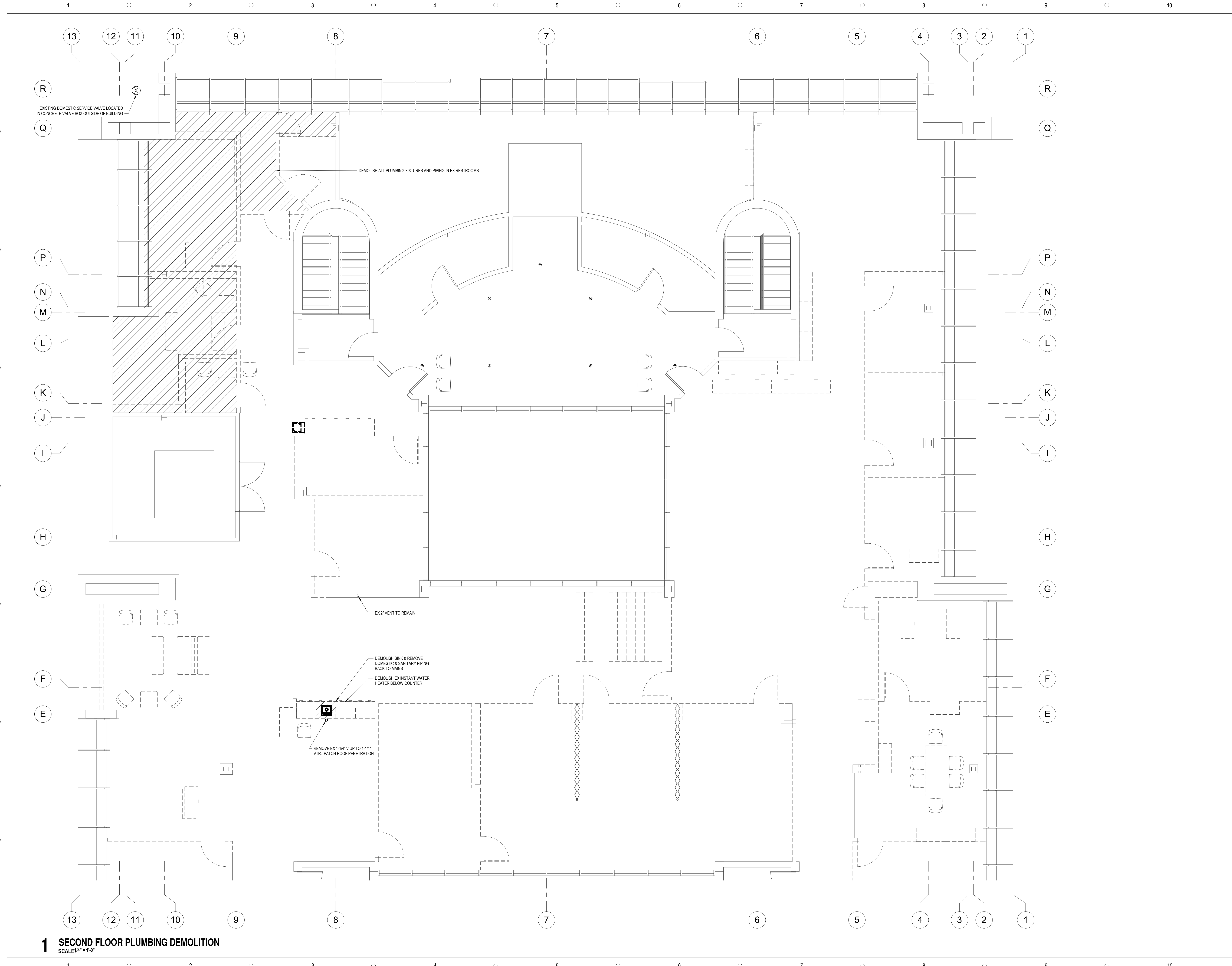
BID DOCUMENTS

DATE	SUBMISSION / REVISION	NO.
06/05/2018	OWNER COMMENTS	1

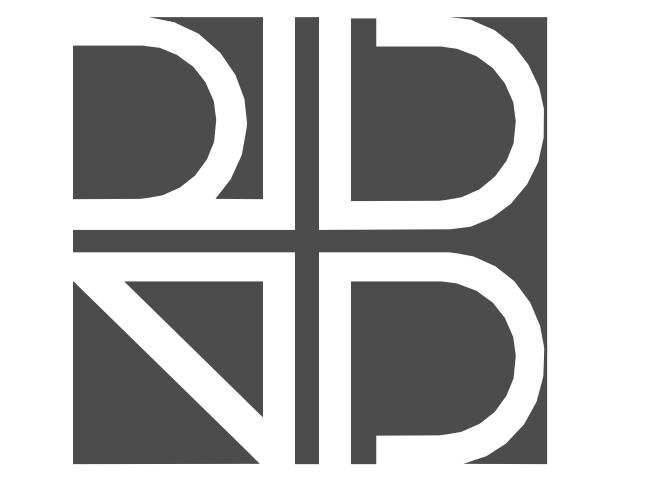
GENERAL NOTES,
SYMBOLS &
ABBREVIATIONS

SCALE: AS INDICATED
 DRAWN BY: B. CURRIE
 CHECK BY: M. McQUINN
 DATE: 05/30/2018
 PROJECT NUMBER: 1502-0020

P-100



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



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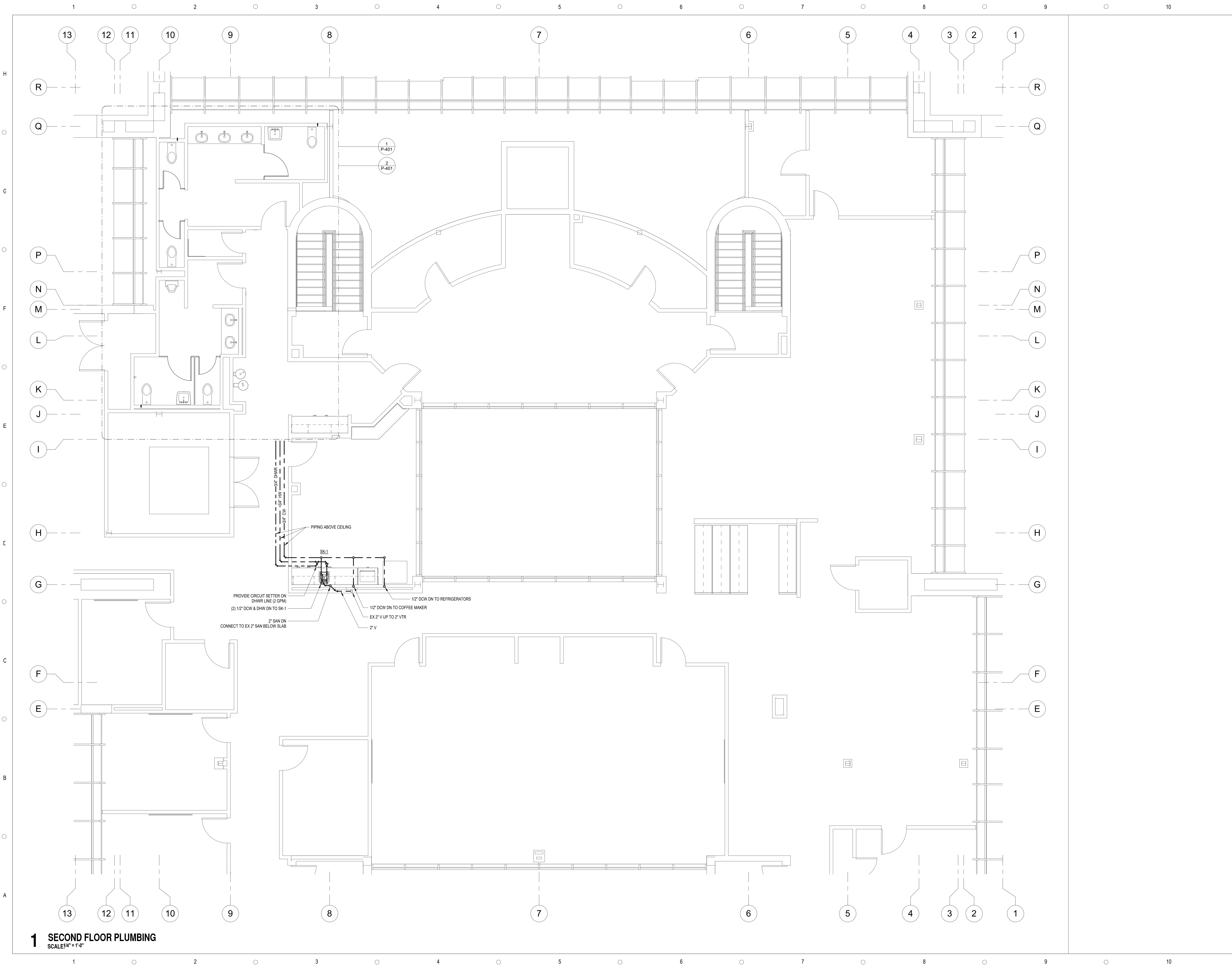
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DATE	SUBMISSION / REVISION	NO.

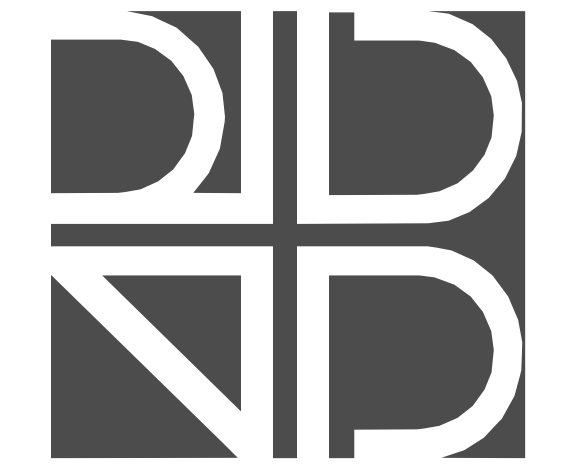
**SECOND FLOOR
PLUMBING
DEMOLITION**

SCALE: AS INDICATED
DRAWN BY: B. CURRIE
CHECK BY: M. McQUINN
DATE: 05/30/2018
PROJECT NUMBER: 1502-0020

XP-201



1 SECOND FLOOR PLUMBING
SCALE: 1/4" = 1'-0"



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**SECOND FLOOR
PLUMBING**

SCALE: AS INDICATED

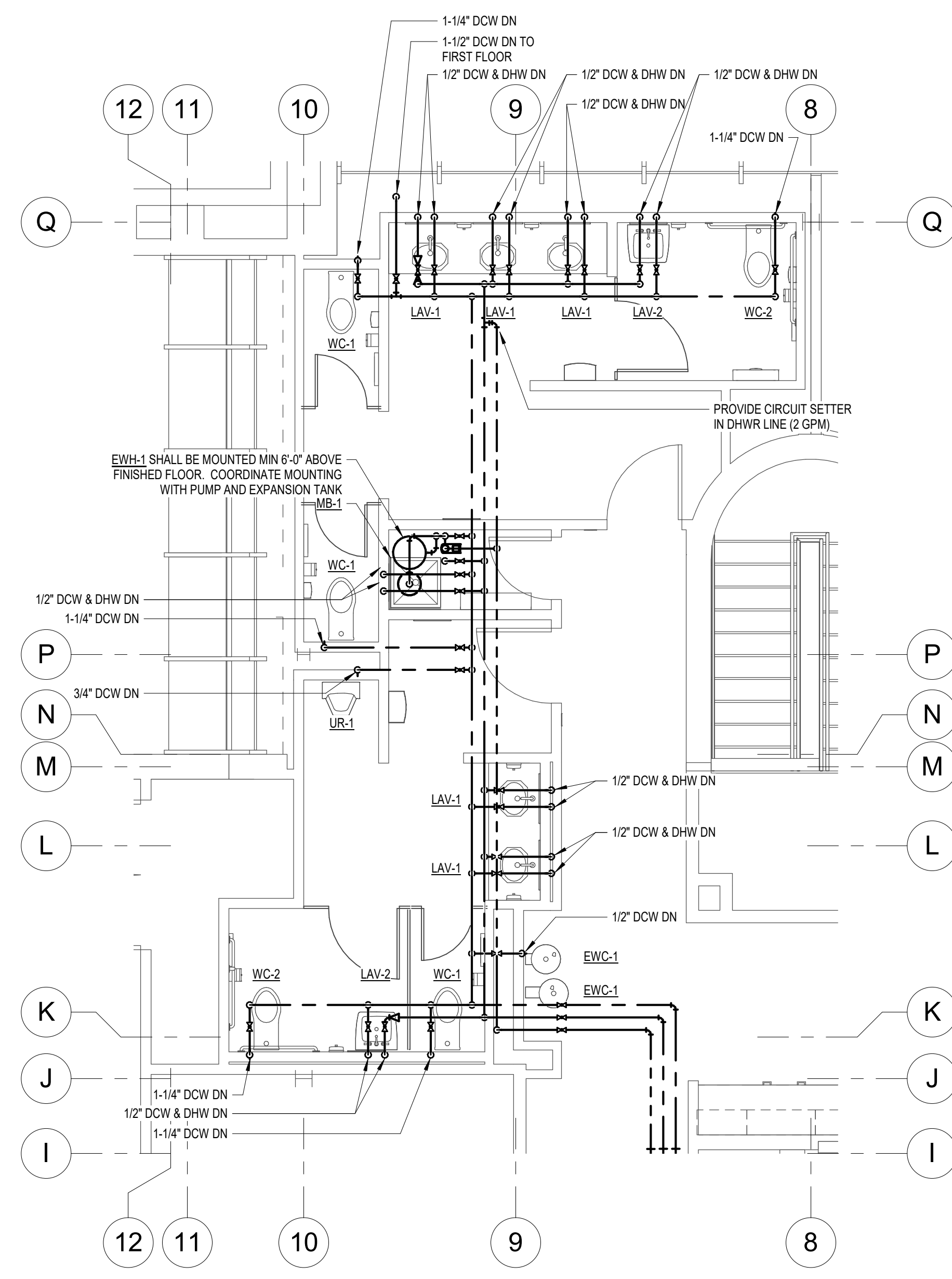
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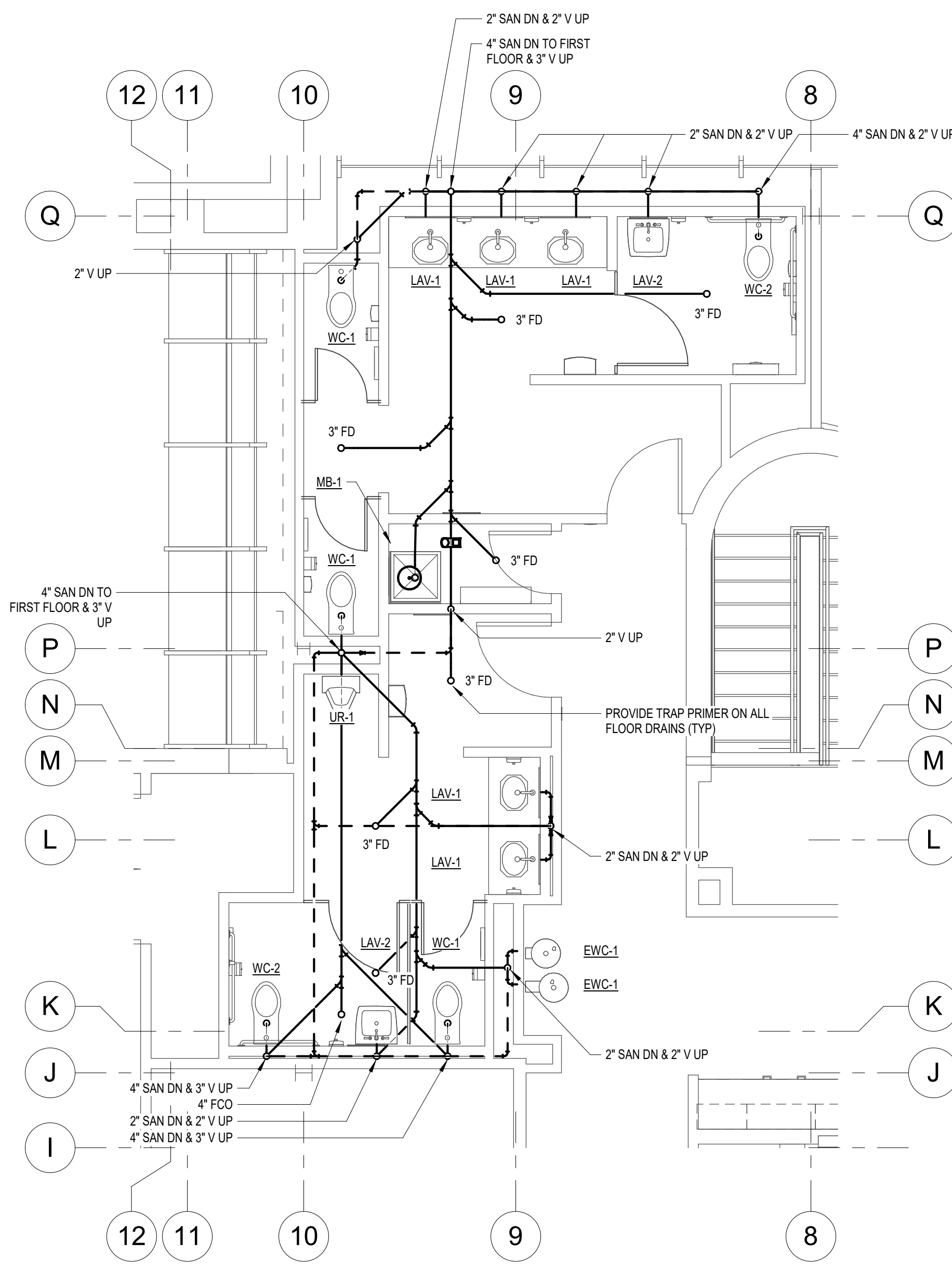
DATE: 05/30/2018

PROJECT NUMBER: 1502-0020

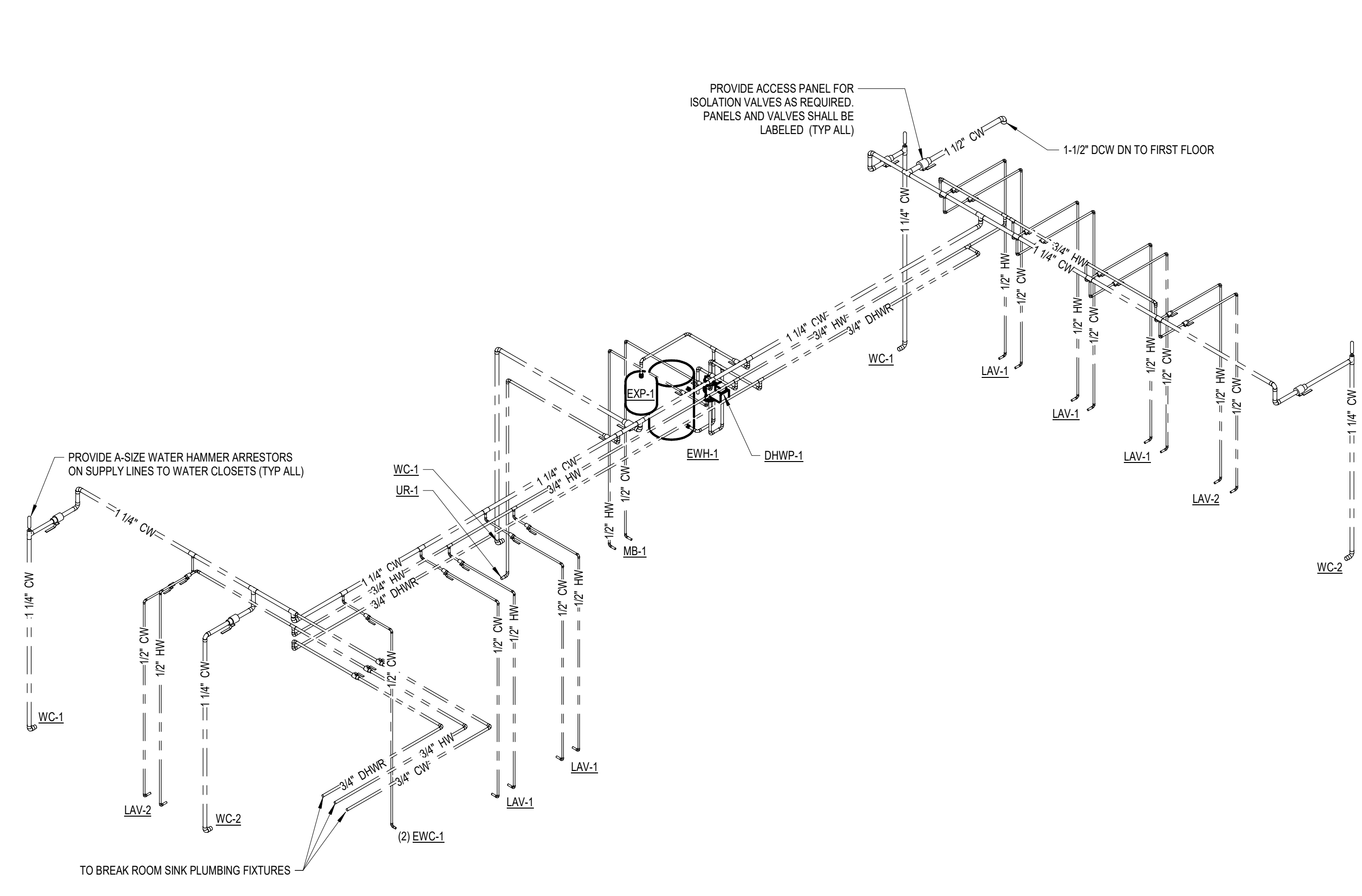
P-201



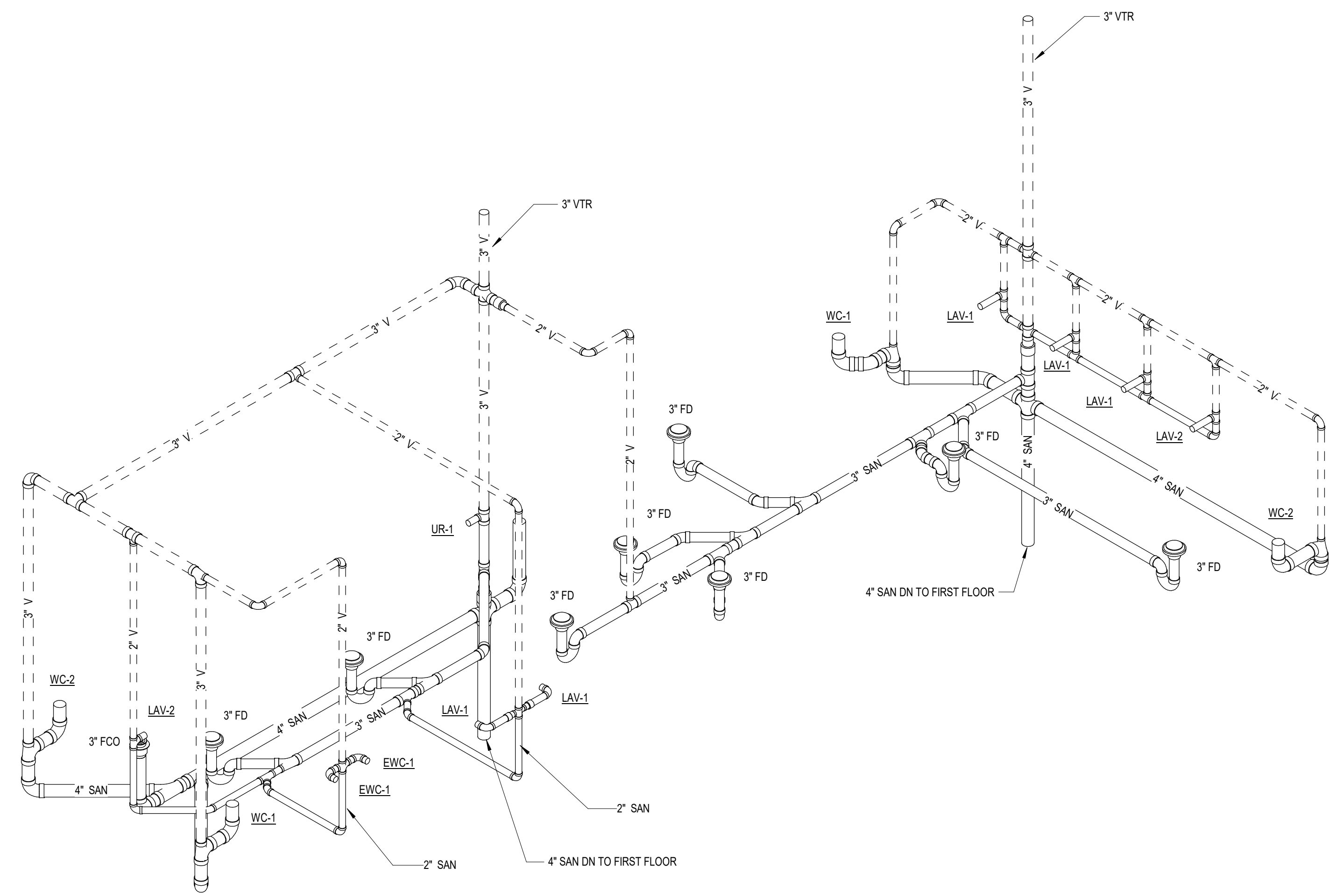
2 ENLARGED DOMESTIC PLUMBING PLAN
SCALE: 1/4" = 1'-0"



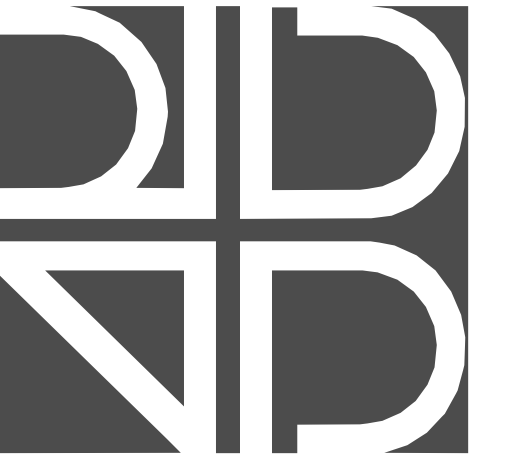
1 ENLARGED SANITARY PLUMBING PLAN
SCALE: 1/4" = 1'-0"



4 DOMESTIC PLUMBING RISER
SCALE: NOT TO SCALE



3 SANITARY PLUMBING RISER
SCALE: NOT TO SCALE



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ENLARGED RESTROOM PLUMBING

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CHECK BY:	M. McQUINN
DATE:	05/30/2018
PROJECT NUMBER:	1502-0020

P-401

ABBREVIATIONS

AMP	AMPERES	CUH	CABINET UNIT HEATER	FIL	FILTER	LDB	LEAVING DRY BULB TEMPERATURE	SA	SUPPLY AIR
AAD	AUTOMATIC AIR DAMPER	dB	DECIBELS	FSD	COMBINATION FIRE/SMOKE DAMPER	LPC	LOW PRESSURE CONDENSATE	SF	SUPPLY FAN
ACCU	AIR COOLED CONDENSING UNIT	DB	DRY BULB TEMPERATURE	FMS	FLOW MEASURING STATION	LPS	LOW PRESSURE STEAM	SS	SOLIDS SEPARATOR
ACU	AIR CONDITIONING UNIT	DC	DUST COLLECTOR	PPM	FEET PER MINUTE	LV	LOUVER	SD	SMOKE DAMPER
ACV	AIR CONTROL VALVE	DIA	DIAMETER	FT	FEET	LWB	LEAVING WET BULB	SHC	SENSIBLE HEAT CAPACITY
AFF	ABOVE FINISHED FLOOR	DN	DOWN	GAL	GALLONS	LWT	LEAVING WATER TEMPERATURE	SP	STATIC PRESSURE
AHU	AIR HANDLING UNIT	DP	DEWPOINT TEMPERATURE	GC	GENERAL CONTRACTOR	MAX	MAXIMUM	SQ	SQUARE
APD	AIR PRESSURE DROP	DSD	DUCT SMOKE DETECTOR	GPM	GALLONS PER MINUTE	MAU	MAKEUP AIR UNIT	SRV	STATIONARY ROOF VENT
AS	AIR SEPARATOR	DWH	DOMESTIC WATER HEATER	GR	GRAINS	MBH	1000 BTUH	TD	TRIPLE DUTY VALVE
B	BOILER	DX	DIRECT EXPANSION	HD	HEAD	MCA	MINIMUM CIRCUIT AMPACITY	TDH	TOTAL DYNAMIC HEAD
BD	BYPASS DAMPER	EAT	ENTERING AIR TEMPERATURE	HP	HORSEPOWER	MIN	MINIMUM	TG	TRANSFER GRILLE
BDD	BACK DRAFT DAMPER	EC	EXPANSION COMPENSATOR	HPC	HIGH PRESSURE CONDENSATE	MOP	MAXIMUM OVERCURRENT PROTECTION	THC	TOTAL HEAT CAPACITY
BHP	BRAKE HORSE POWER	EDB	ENTERING DRY BULB TEMPERATURE	HPS	HIGH PRESSURE STEAM	MV	MANUAL VENT	TSP	TOTAL STATIC PRESSURE
BOD	BOTTOM OF DUCT	EDH	ELECTRIC DUCT HEATER	HR	HUMIDITY RATIO, HOUR	NC	NORMALLY CLOSED	TYP	TYPICAL
BT	BUFFER TANK	EF	EXHAUST FAN	HRU	HEAT RECOVERY UNIT	NIC	NOT IN CONTRACT	UV	UNIT VENTILATOR
BTU	BRITISH THERMAL UNIT	EFF	EFFICIENCY	HUM	HUMIDIFIER	NO	NORMALLY OPEN, NUMBER	V	VOLT
BTUH	BRITISH THERMAL UNIT PER HOUR	ENC	ENCLOSURE	HWC	HOT WATER COIL	OA	OUTSIDE AIR	VAV	VARIABLE AIR VOLUME
C	COMMON	ERU	ENERGY RECOVERY UNIT	HWS	HOT WATER SUPPLY	P	PUMP	VD	VOLUME DAMPER
CCU	CEILING CASSETTE UNIT	ESP	EXTERNAL STATIC PRESSURE	HWR	HOT WATER RETURN	PD	PRESSURE DROP	VIF	VERIFY IN FIELD
CD	COLD CONDENSATE DRAIN	ET	EXPANSION TANK	HX	HEAT EXCHANGER	PG	PROPYLENE GLYCOL	VP	VACUUM PUMP
CFM	CUBIC FEET PER MINUTE	EWB	ENTERING WET BULB TEMPERATURE	HZ	HERTZ	PH	PHASE	VSD	VARIABLE SPEED DRIVE
CH	CHILLER	EWT	ENTERING WATER TEMPERATURE	IN	INCH	PSI	POUNDS PER SQUARE INCH	UH	UNIT HEATER
CHW	CHILLED WATER	EXH	EXHAUST AIR	IND	INDUCTION UNIT	RA	RETURN AIR	WB	WET BULB TEMPERATURE
CGR	CHILLED GLYCOL RETURN	EXIST	EXISTING	KW	KILOWATT	RH	RELATIVE HUMIDITY	WCU	WALL CASSETTE UNIT
CGS	CHILLED GLYCOL SUPPLY	F	FAN	LAT	LEAVING AIR TEMPERATURE	RHC	REHEAT COIL	WFS	WATER FLOW SWITCH
CWS	CHILLED WATER SUPPLY	°F	FAHRENHEIT	LB	POUND	RPM	REVOLUTION PER MINUTE	WG	WATER GAUGE
CWR	CHILLED WATER RETURN	F&T	FLOAT AND THERMOSTATIC TRAP			RTU	ROOF TOP UNIT	WH	WALL HEATER
CO	CLEANOUT	FC	FLEXIBLE CONNECTION					WPD	WATER PRESSURE DROP
CONV	CONVECTOR	FCU	FAN COIL UNIT					WWM	WELDED WIRE MESH
CP	CONDENSATE PUMP	FD	FIRE DAMPER					ZD	ZONE DAMPER
CT	COOLING TOWER								

SYMBOLS

GENERAL

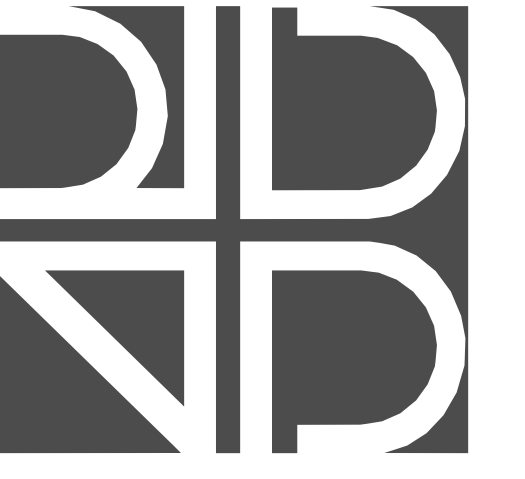
- RETURN WATER
- RETURN WATER
- REMOVALS
- DISCONNECT FROM EXISTING
- CONNECT TO EXISTING
- TEMPERATURE SENSOR WITH LOCKING GUARD
- PRESSURE SENSOR
- DAMPER MOTOR
- DIRECTION OF AIRFLOW

DUCTWORK

- RETURN DIFFUSER
- SUPPLY DIFFUSER
- LINEAR DIFFUSER
- SQUARE TO ROUND DUCT TRANSITION
- SQUARE MAIN TO ROUND BRANCH TAKE-OFF
- FLEXIBLE DUCT CONNECTOR
- POSITIVELY PRESSURIZED DUCT OUT OF THE PLANE
- POSITIVELY PRESSURIZED DUCT INTO THE PLANE
- NEGATIVELY PRESSURIZED DUCT OUT OF THE PLANE
- NEGATIVELY PRESSURIZED DUCT INTO THE PLANE
- SQUARE ELBOW WITH TURNING VANES
- MANUAL VOLUME DAMPER
- AUTOMATIC AIR DAMPER
- TYPE NECK SIZE (TYPICAL OF) DIFFUSER DESIGNATION (SEE DIFFUSER SCHEDULE)
- UNIT WITH HEATING AND COOLING
- UNIT WITH AIR FLOW
- UNIT WITH HEATING OR COOLING
- GENERAL EQUIPMENT DESIGNATION
- KEYNOTE
- FIRE DAMPER
- ENLARGED PLAN & DETAIL CALL OUT

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO ALL APPLICABLE RULES, REGULATIONS AND CODES, INCLUDING, BUT NOT LIMITED TO FLORIDA ENERGY CODE, 2017 ED., FLORIDA BUILDING CODE, 2017 ED. AND OSHA.
2. FIELD VERIFY ALL DIMENSIONS PRIOR TO DUCTWORK FABRICATION OR ANY OTHER MECHANICAL WORK. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION OF EQUIPMENT, PIPING, DUCTWORK, AND PADS WITH OTHER CONTRACTORS. PROVIDE FITTINGS, ELEVATION CHANGES, TRANSITIONS, AND OFFSETS REQUIRED, WHETHER SHOWN OR NOT, TO AVOID CONFLICTS WITH WORK OF OTHER CONTRACTS.
3. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL HVAC PENETRATIONS (PIPING, DUCTWORK, ETC.) IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE AND WHERE SHOWN OR SPECIFIED.
4. ITEMS OF SPECIFIC MANUFACTURER'S SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE PRINTED INSTRUCTIONS AND/OR MANUFACTURER'S REPRESENTATIVE'S DIRECTIONS.
5. MECHANICAL CONTRACTOR TO INSTALL ALL NECESSARY STIFFENERS, BRACES, STRUTS, ETC., WHETHER SHOWN OR NOT, TO PROVIDE A COMPLETE, SAFE, AND DURABLE SYSTEM.
6. DIMENSIONS SHOWN "AFF" INDICATE THE ACTUAL CLEAR DIMENSIONS FROM THE BOTTOM OF THE UNIT TO THE FINISHED FLOOR ELEVATION UNLESS INDICATED OTHERWISE.
7. SUPPORT AND EQUIPMENT DETAILS MAY VARY TO SUIT EQUIPMENT AND PARTS SUPPLIED.
8. WELD ALL STEEL ANGLE JOINTS UNLESS OTHERWISE SHOWN.
9. PROVIDE NECESSARY BY-PASSES AND BALANCING MEANS AS REQUIRED TO ASSURE PROPER SYSTEM OPERATION.
10. ALL DUCT DIMENSIONS SHOWN ARE "SIDE SEEN" BY "SIDE NOT SEEN" AND ARE THE CLEAR INSIDE DIMENSIONS UNLESS OTHERWISE NOTED.
11. PROVIDE ACCESS DOORS AND CLEARANCES FOR EASY ACCESS TO ALL FIRE DAMPERS, SMOKE DAMPERS, CONTROL DAMPERS, LOUVERS, FILTERS, COILS, AND FANS.
12. BRANCH DUCTS TO REGISTER SHALL BE THE SAME SIZE AS REGISTER UNLESS INDICATED OTHERWISE.
13. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, FOR PRECISE LOCATION OF DIFFUSERS AND REGISTERS.
14. PROVIDE MANUAL VOLUME DAMPERS IN ALL BRANCH TAKE-OFFS AND WHERE SHOWN, WHERE DIFFUSER BALANCING DAMPER IS INACCESSIBLE, PROVIDE A CONCEALED REMOTE OPERATOR SIMILAR TO YOUNG REGULATOR 270-301 BESIDE DIFFUSER/GRILLE.
15. PROVIDE ALL CONTROL AND INTERLOCK WIRING REQUIRED OR SPECIFIED THAT IS NOT PROVIDED BY THE ELECTRICAL CONTRACTOR.
16. COORDINATE WITH ELECTRICAL CONTRACTOR AND FIRE PROTECTION CONTRACTOR REGARDING THE RESPONSIBILITIES FOR SUPPLYING, INSTALLING AND WIRING OF HVAC RELATED DISCONNECT SWITCHES, STARTERS, SAFETY INTERLOCKS, EMERGENCY SHUTDOWN AND WIRING.
17. WORK ON M-SERIES DRAWINGS IS BY THE MECHANICAL CONTRACTOR (MC) UNLESS OTHERWISE NOTED.
18. VERIFY ALL LOCATIONS, DIMENSIONS, EQUIPMENT ARRANGEMENTS, CLEARANCES AND ELECTRICAL CHARACTERISTICS IN THE FIELD PRIOR TO BID. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES.
19. PRIOR TO CUTTING THROUGH FLOORS AND WALLS THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL STRUCTURAL MEMBERS, JOISTS, AND OR COLUMNS. PROMPTLY NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. DO NOT CUT ANY STRUCTURAL MEMBERS UNLESS SPECIFICALLY DIRECTED TO DO SO.
20. THE MECHANICAL CONTRACTOR SHALL REMOVE DUCTWORK BACK TO A POINT WHICH WILL ALLOW THE INSTALLATION OF SUPPORT STEEL THAT IS REQUIRED / RELATED TO THE HVAC EQUIPMENT (IE RTU INSTALLATION). THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR IN THE LOCATIONS WHICH WILL REQUIRE MECHANICAL SUPPORT STEEL.
21. ALL EXISTING TO REMAIN DIFFUSERS AND DUCT SYSTEMS TO BE REBALANCED TO CFM INDICATED
22. PATCH AND SEAL DUCT WHERE BRANCHES / TAKEOFFS HAVE BEEN REMOVED AND NO NEW CONNECTION IS NEEDED.
23. CAP AND SEAL PIPING WHERE BRANCHES / TAKEOFFS HAVE BEEN REMOVED AND NO NEW CONNECTION IS NEEDED.
24. EXISTING BUILDING BAS (BUILDING AUTOMATED SYSTEM) CONTROLS ARE OPERATIONAL AND ACTIVE. CONTRACTOR TO MAIN WORKING CONDITION AND RETURN AT EXISTING OR BETTER OPERATIONAL STATE. CONTRACTOR IS RESPONSIBLE FOR THE OPERATION OF THE SYSTEM AND ANY DAMAGE TO THE EQUIPMENT DURING CONSTRUCTION, INCLUDING ALL EXISTING LOW/HIGH VOLTAGE WIRING. ALL NEW BAS CONTROLS SHALL ADHERE TO LOCAL COUNTIES STANDARDS & SPECIFICATIONS.
25. TEST, ADJUST, AND BALANCE ALL NEW/AFFECTED HVAC EQUIPMENT. NOTE: CONTRACTOR SHALL PROVIDE A COMPLETE TEST AND BALANCE FOR ALL UNITS BEING REPLACED OR MODIFIED TO DETERMINE AIR FLOW RATES.



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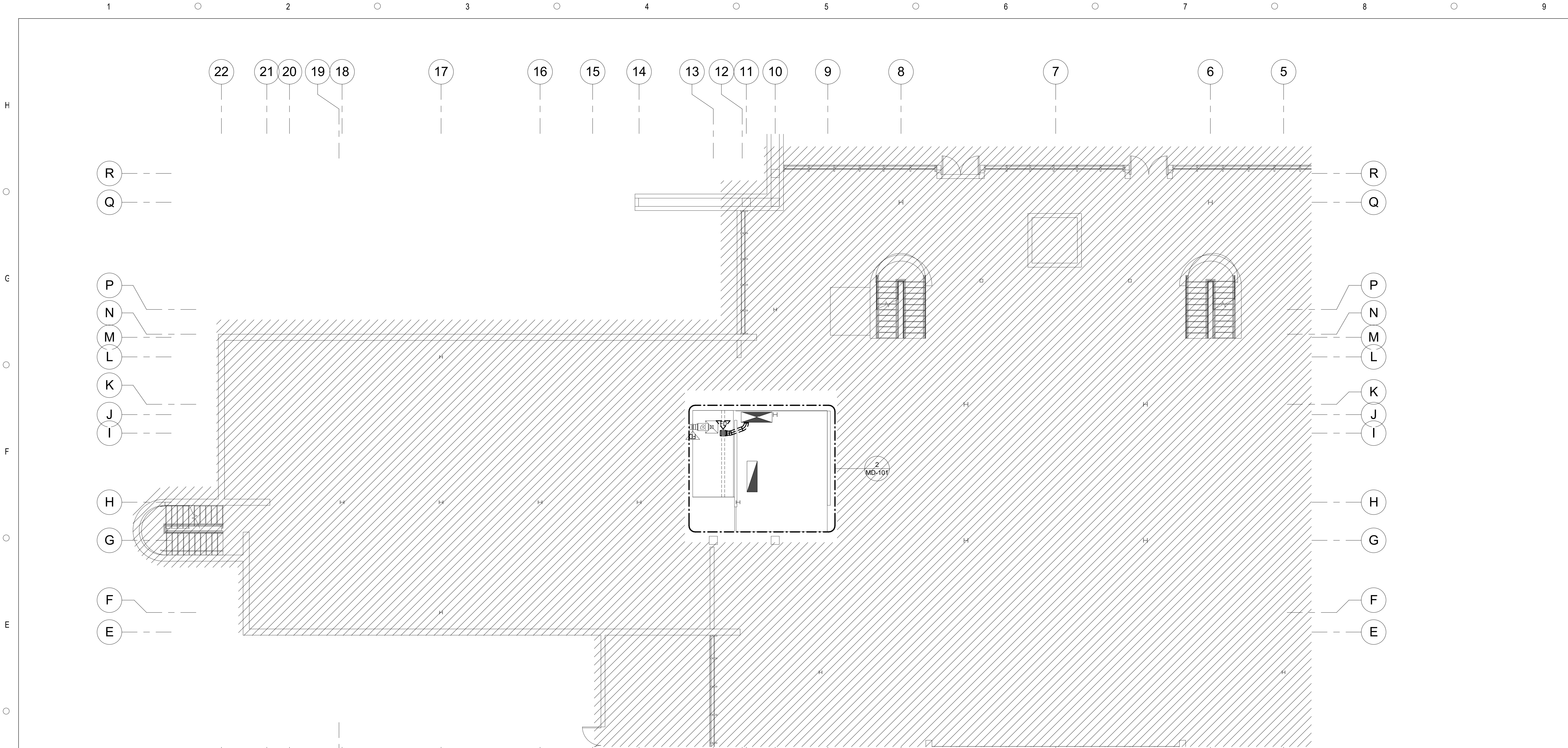
BID DOCUMENTS

DATE	SUBMISSION / REVISION	NO.
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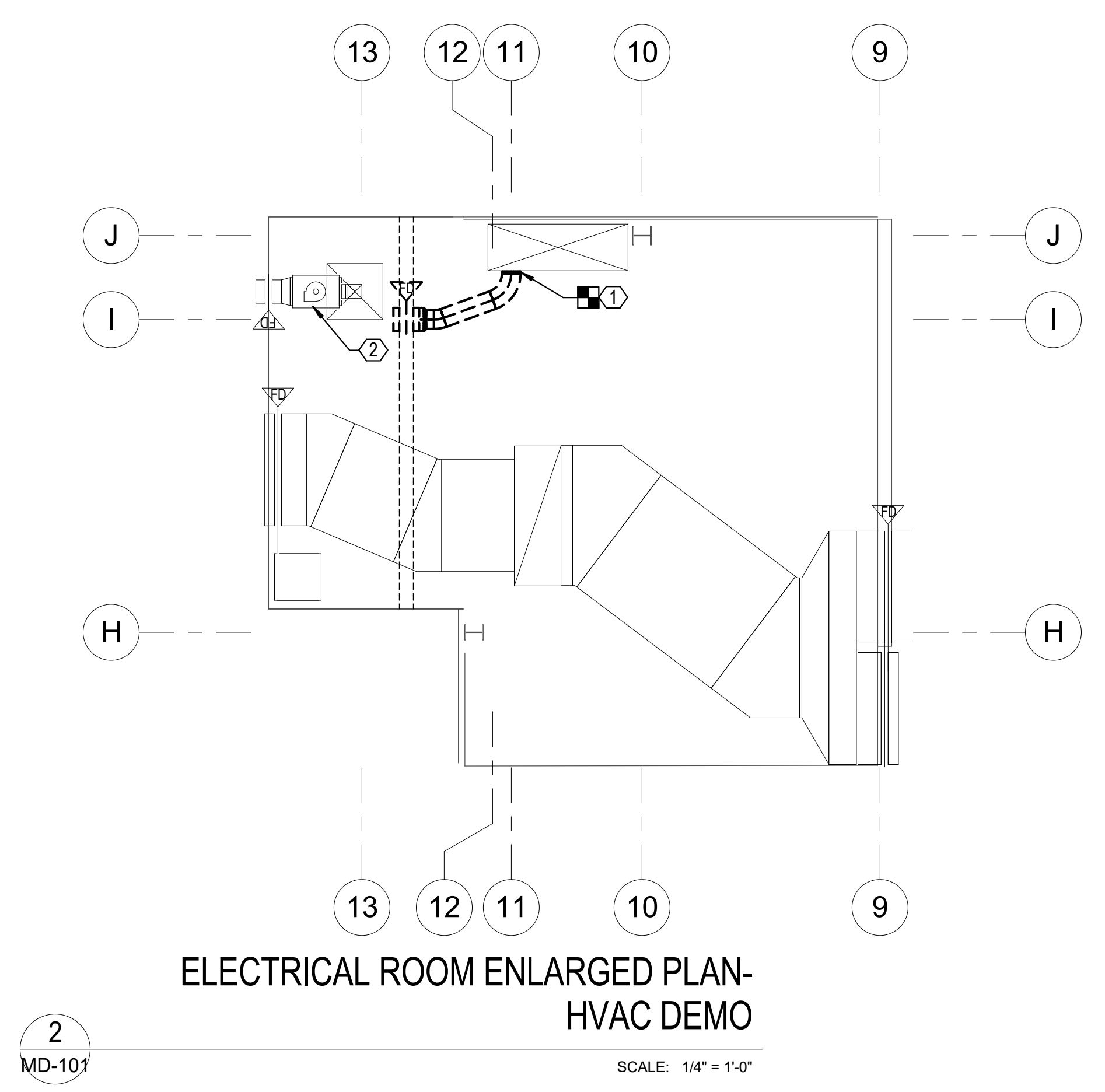
**LEGEND,
ABBREVIATIONS AND
GENERAL NOTES**

SCALE: AS INDICATED
DRAWN BY: P. ROWAN
CHECK BY: M. MCQUINN
DATE: 05/30/2018
PROJECT NUMBER: 15012-0011

M-100



1
MD-101
FIRST FLOOR HVAC DEMO PLAN
SCALE: 1/8" = 1'-0"



2
MD-101
ELECTRICAL ROOM ENLARGED PLAN-HVAC DEMO
SCALE: 1/4" = 1'-0"



3
MD-101
REFERENCE PHOTO 1- EX. DUCTWORK
SCALE: 1 1/2" = 1'-0"



5
MD-101
REFERENCE PHOTO 3- EX. EXHAUST FAN
SCALE: 1 1/2" = 1'-0"



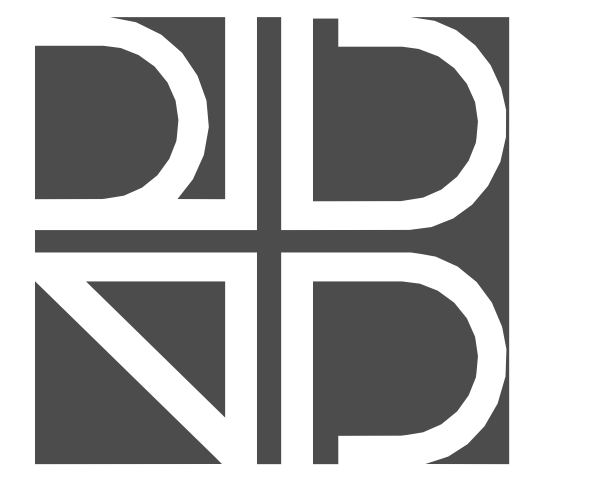
4
MD-101
REFERENCE PHOTO 2- EX. FIRE DAMPER
SCALE: 1 1/2" = 1'-0"

GENERAL DEMOLITION NOTES:

1. COORDINATE DEMOLITION WITH OTHER CONTRACTORS.
2. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH OCCUPIED BUILDING AREAS. SERVICE TO OTHER PARTS OF BUILDING SHALL REMAIN ACTIVE.
3. DISCONNECT, CAP, AND IDENTIFY DESIGNATED UTILITIES WITHIN DEMOLITION AREAS.
4. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER. PROTECT EXISTING SUPPORTING STRUCTURAL MEMBERS AND PARTITIONS TO REMAIN.
5. EXCEPT WHERE NOTED OTHERWISE, REMOVE DEMOLISHED MATERIALS FROM SITE. DO NOT DISPOSE OF ANY MATERIAL ON SITE.
6. REMOVE DEMOLISHED MATERIAL FROM SITE AS WORK PROGRESSES. UPON COMPLETION OF WORK, LEAVE AREAS IN CLEAN CONDITION.
7. COMPLETELY REMOVE ALL PIPING, DUCTWORK, HANGERS, ETC.
8. PROVIDE REINSULATION TO EXISTING DISTRIBUTION AND SERVICES SCHEDULED TO REMAIN IN USE.
9. DEMOLITION SHALL INCLUDE REMOVAL OF ALL STRAPS, HANGERS, CLAMPS, CHANNEL, AND OTHER DEVICES USED FOR SUPPORTING EQUIPMENT.
10. DRAIN, VENT, OR DISCHARGE MECHANICAL SYSTEMS PRIOR TO DISASSEMBLY.
11. IN MECHANICAL SYSTEMS BEING REMOVED, BLANK OFF, PLUG, OR CAP ALL BRANCH LINES (DUCTWORK OR PIPING) SCHEDULED FOR DEMOLITION WHERE THEY TIE INTO MAIN LINES TO REMAIN.
12. DEMOLITION INCLUDES REMOVAL OF EQUIPMENT, SELECTED DUCTWORK, PIPING, ECT. THE DEMOLITION DRAWINGS SHOW THE GENERAL SCOPE OF ITEMS TO BE REMOVED. IT IS THE MECHANICAL CONTRACTORS RESPONSIBILITY TO REMOVE ALL ASSOCIATED EQUIPMENT AND MATERIALS THAT ARE NOT SPECIFICALLY IDENTIFIED TO BE REUSED, TO PRODUCE A CLEAN AND WORKABLE SYSTEM.
13. REMOVE ALL OBSOLETE, FREE HANGING AND OPEN OR DEAD ENDED AIR, GLYCOL, PIPING OR DUCT.
14. THE MECHANICAL DRAWINGS ARE DIAGRAMMATICAL. IT IS NOT POSSIBLE OR THE INTENT TO SHOW ALL PIECES OF THE SYSTEMS BEING REMOVED AND/OR INSTALLED UNDER THE CONTRACT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE A COMPLETE, RELIABLE AND WORKING SYSTEM. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO DEMOLISH ALL MATERIALS ASSOCIATED TO REMOVALS TO PROVIDE A "LIKE NEW" APPEARANCE WITHIN THE SPACES (IE NO HANGARS, TUBING ETC. ABANDONED IN PLACE UNLESS DIRECTED TO DO SO).
15. ALL BUILDING AUTOMATED SYSTEM COMMUNICATIONS/CONTROL WIRES TO BE REMOVED BY JOHNSON CONTROLS INC. COORDINATE WITH OWNER DURING DEMOLITION.

KEY NOTES:

- ① EXISTING DUCTWORK AND FIRE DAMPER SERVING ELECTRICAL ROOM TO BE DEMOLISHED. SEE REFERENCE PHOTOS 1&2. THIS SHEET FOR REFERENCE.
- ② EXISTING EXHAUST FAN "EF-23", EXHAUST GRILLE, THERMOSTAT, DUCTWORK AND FIRE DAMPER TO REMAIN.



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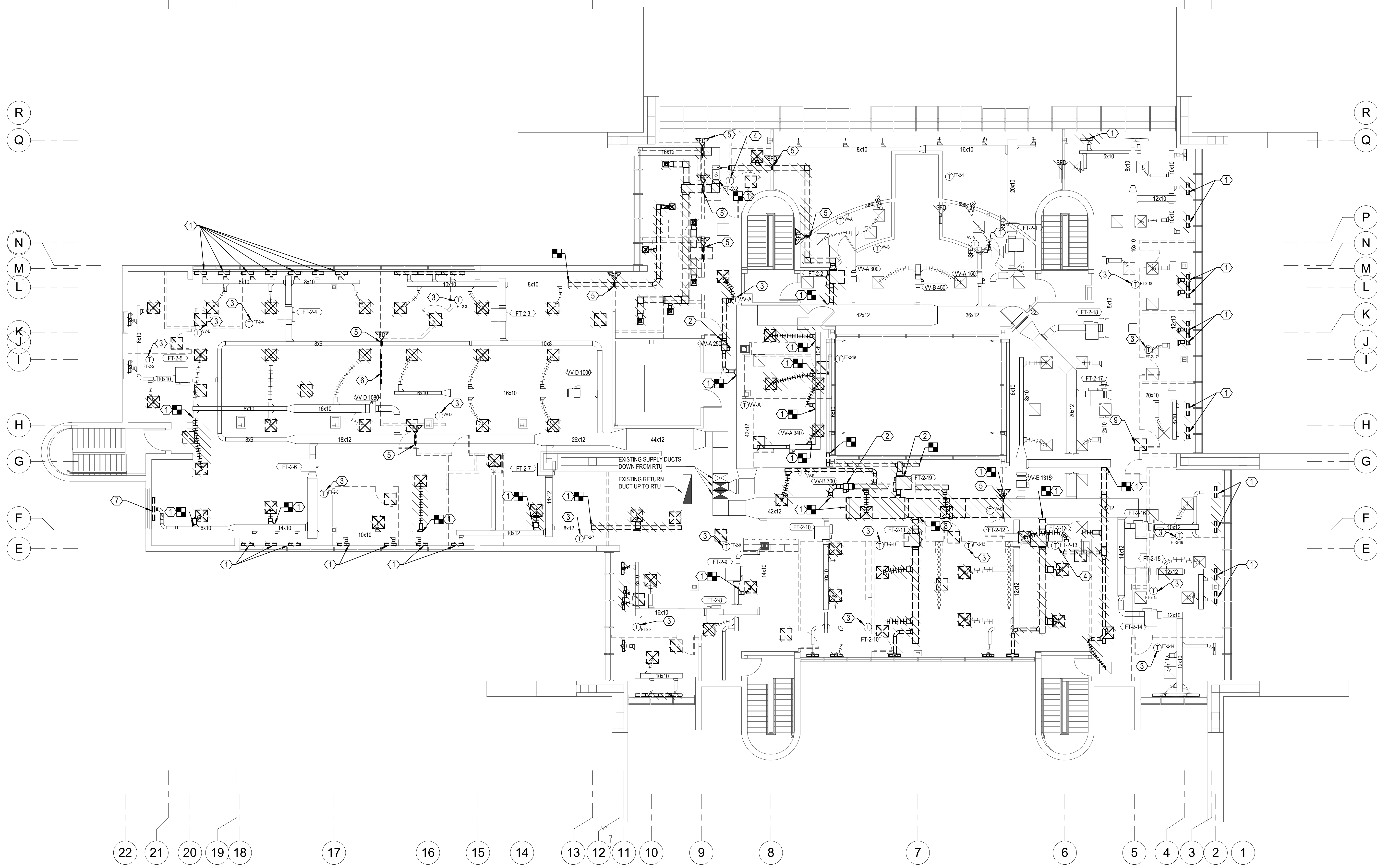
BID DOCUMENTS

DATE	SUBMISSION / REVISION	NO.

FIRST FLOOR HVAC
NEW WORK PLAN

SCALE: AS INDICATED
DRAWN BY: P. ROWAN
CHECK BY: M. MCQUINN
DATE: 05/30/2018
PROJECT NUMBER: 15012-0011

MD-101



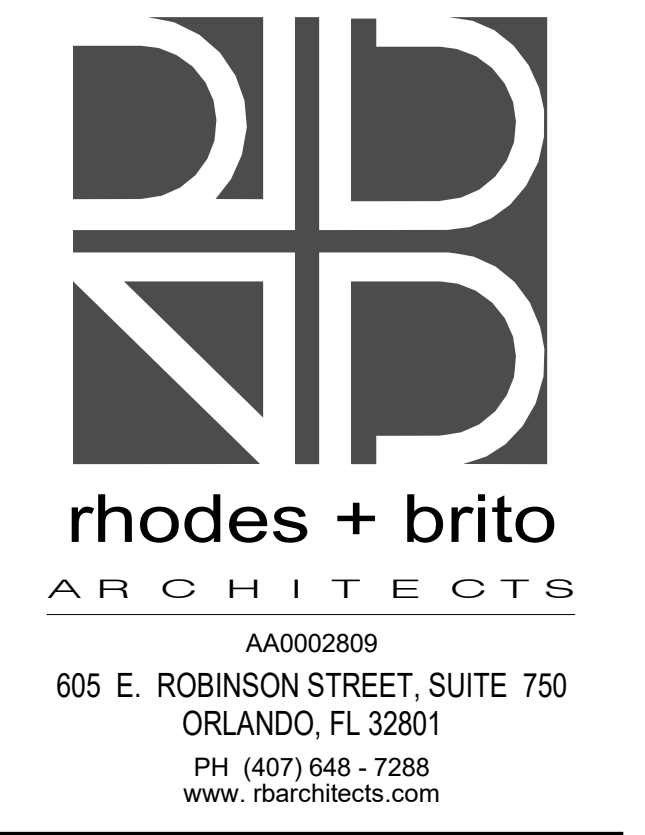
GENERAL DEMOLITION NOTES:

1. COORDINATE DEMOLITION WITH OTHER CONTRACTORS.
2. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH OCCUPIED BUILDING AREAS. SERVICE TO OTHER PARTS OF BUILDING SHALL REMAIN ACTIVE.
3. DISCONNECT, CAP, AND IDENTIFY DESIGNATED UTILITIES WITHIN DEMOLITION AREAS.
4. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER. PROTECT EXISTING SUPPORTING STRUCTURAL MEMBERS AND PARTITIONS TO REMAIN.
5. EXCEPT WHERE NOTED OTHERWISE, REMOVE DEMOLISHED MATERIALS FROM SITE. DO NOT DISPOSE OF ANY MATERIAL ON SITE.
6. REMOVE DEMOLISHED MATERIAL FROM SITE AS WORK PROGRESSES. UPON COMPLETION OF WORK LEAVE AREAS IN CLEAN CONDITION.
7. COMPLETELY REMOVE ALL PIPING, DUCTWORK, HANGERS, ETC.
8. PROVIDE REINSULATION TO EXISTING DISTRIBUTION AND SERVICES SCHEDULED TO REMAIN IN USE.
9. DEMOLITION SHALL INCLUDE REMOVAL OF ALL STRAPS, HANGERS, CLAMPS, CHANNEL, AND OTHER DEVICES USED FOR SUPPORTING EQUIPMENT.
10. DRAIN, VENT, OR DISCHARGE MECHANICAL SYSTEMS PRIOR TO DISASSEMBLY.
11. IN MECHANICAL SYSTEMS BEING REMOVED, BLANK OFF, PLUG, OR CAP ALL BRANCH LINES (DUCTWORK OR PIPING) SCHEDULED FOR DEMOLITION WHERE THEY TIE INTO MAIN LINES TO REMAIN.
12. DEMOLITION INCLUDES REMOVAL OF EQUIPMENT, SELECTED DUCTWORK, PIPING, ECT., THE DEMOLITION DRAWINGS SHOW THE GENERAL SCOPE OF ITEMS TO BE REMOVED. IT IS THE MECHANICAL CONTRACTORS RESPONSIBILITY TO REMOVE ALL ASSOCIATED EQUIPMENT AND MATERIALS THAT ARE NOT SPECIFICALLY IDENTIFIED TO BE REUSED, TO PRODUCE A CLEAN AND WORKABLE SYSTEM.
13. REMOVE ALL OBSOLETE, FREE HANGING AND OPEN OR DEAD ENDED AIR, GLYCOL PIPING OR DUCT.
14. THE MECHANICAL DRAWINGS ARE DIAGRAMMATICAL. IT IS NOT POSSIBLE OR THE INTENT TO SHOW ALL PIECES OF THE SYSTEMS BEING REMOVED AND/OR INSTALLED UNDER THE CONTRACT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE A COMPLETE, RELIABLE AND WORKING SYSTEM. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO DEMOLISH ALL MATERIALS ASSOCIATED TO REMOVALS TO PROVIDE A "LIKE NEW" APPEARANCE WITHIN THE SPACES (IE NO HANGARS, TUBING ETC. ABANDONED IN PLACE UNLESS DIRECTED TO DO SO).
15. ALL BUILDING AUTOMATED SYSTEM COMMUNICATIONS/CONTROL WIRES TO BE REMOVED BY JOHNSON CONTROLS INC. COORDINATE WITH OWNER DURING DEMOLITION.

KEY NOTES:

- ① DEMOLISH EXISTING DUCTWORK, AIR TERMINALS AND MECHANICAL EQUIPMENT TO EXTENTS SHOWN UNLESS OTHERWISE NOTED.
- ② EXISTING VAV UNIT TO BE RELOCATED.
- ③ EXISTING THERMOSTAT TO BE RELOCATED.
- ④ EXISTING THERMOSTAT TO BE REMOVED.
- ⑤ EXISTING FIRE DAMPER/ FIRE-SMOKE DAMPER TO BE REMOVED.
- ⑥ REMOVE EXISTING TRANSFER GRILLE AT LOCATION SHOWN.
- ⑦ EXISTING LINEAR DIFFUSER TO BE RELOCATED.
- ⑧ EXISTING DUCTWORK AND MECHANICAL EQUIPMENT TO BE RELOCATED.
- ⑨ EXISTING RETURN GRILLE TO BE RELOCATED.

1 MD-102 HVAC DEMO PLAN SCALE: 1/8" = 1'-0"



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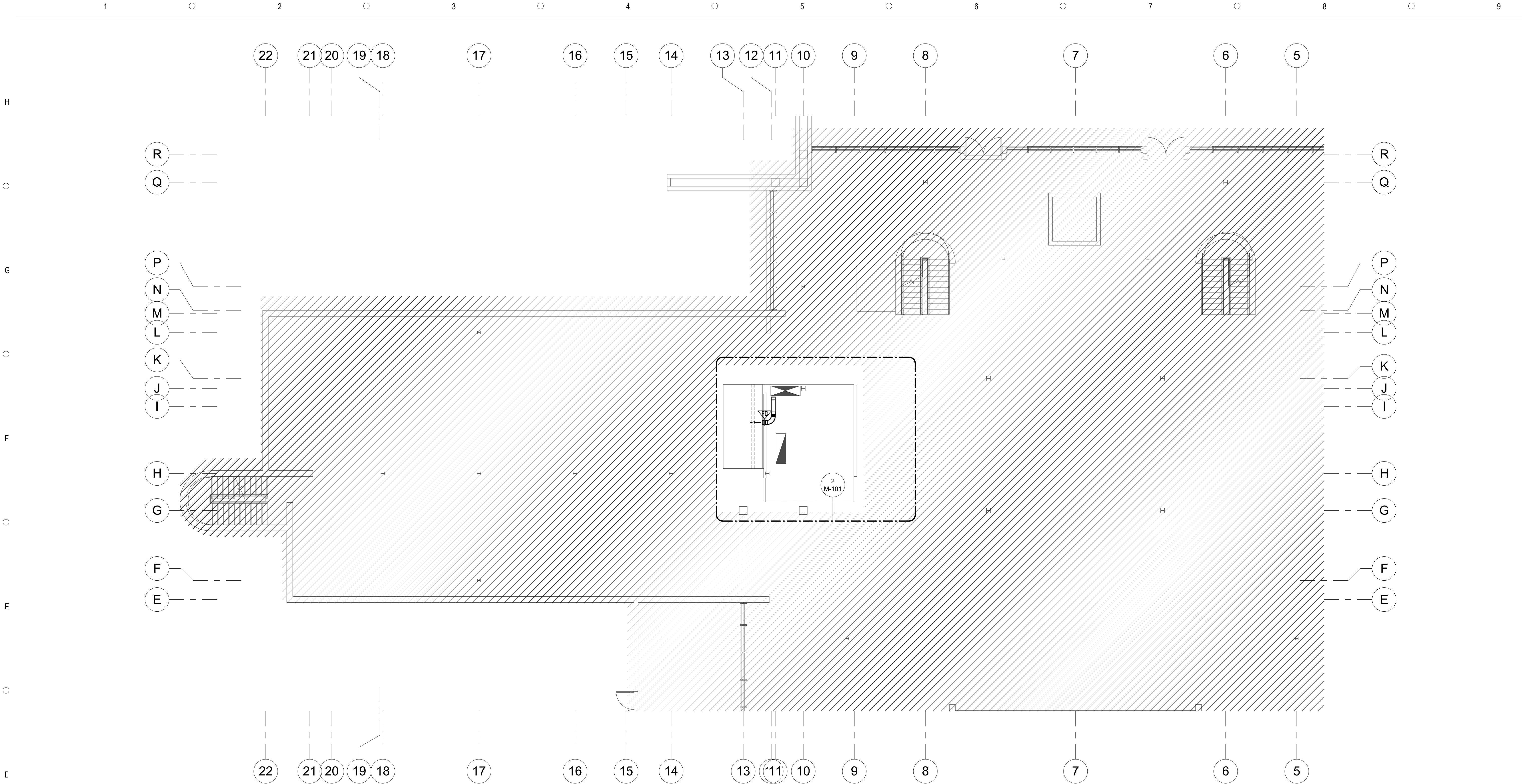
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DATE	SUBMISSION / REVISION	NO.

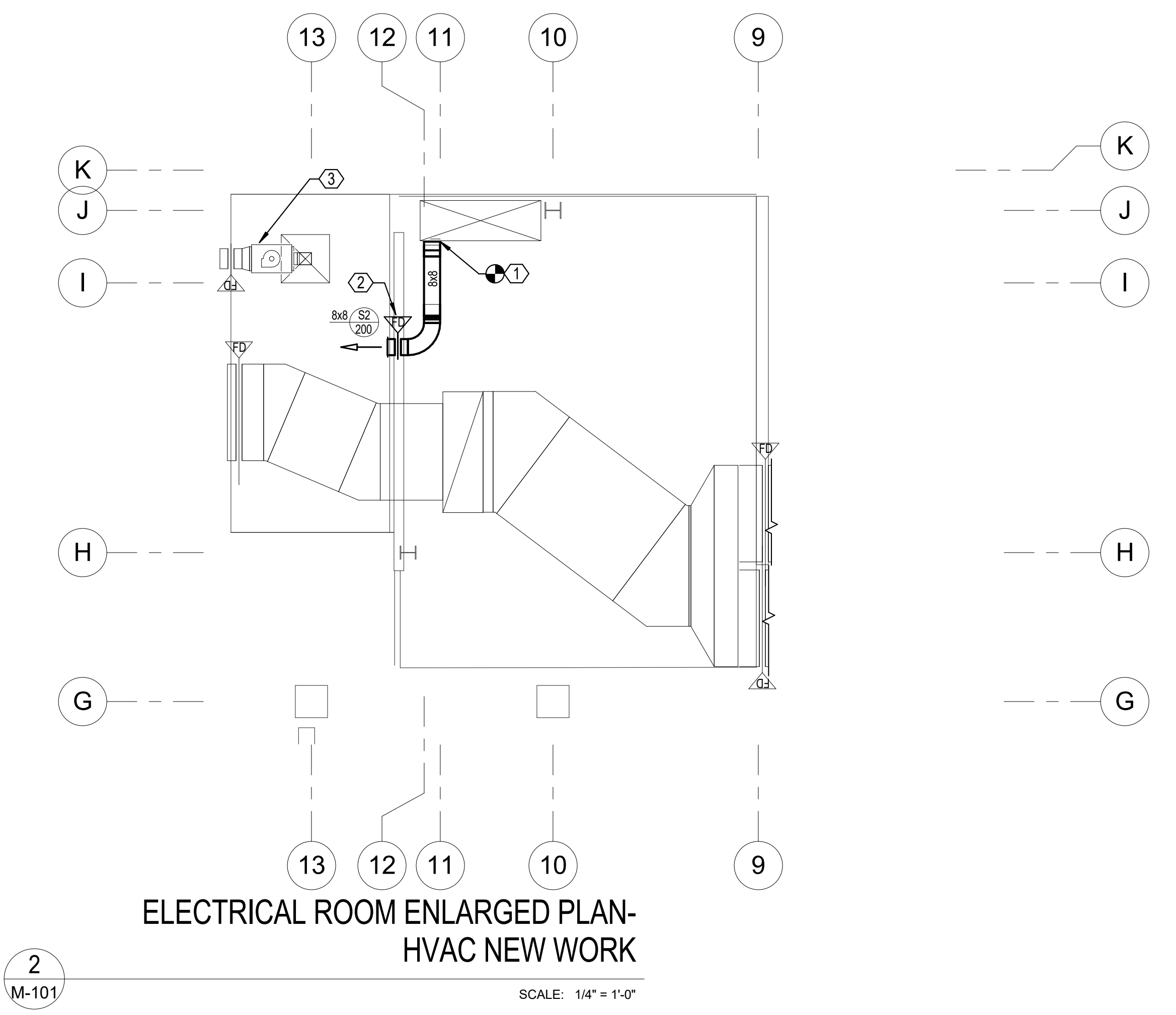
SECOND FLOOR HVAC DEMO PLAN

SCALE: AS INDICATED
 DRAWN BY: P. ROWAN
 CHECK BY: M. MCQUINN
 DATE: 05/30/2018
 PROJECT NUMBER: 15012-0011

MD-102



1
M-101
FIRST FLOOR HVAC NEW WORK PLAN
SCALE: 1/8" = 1'-0"



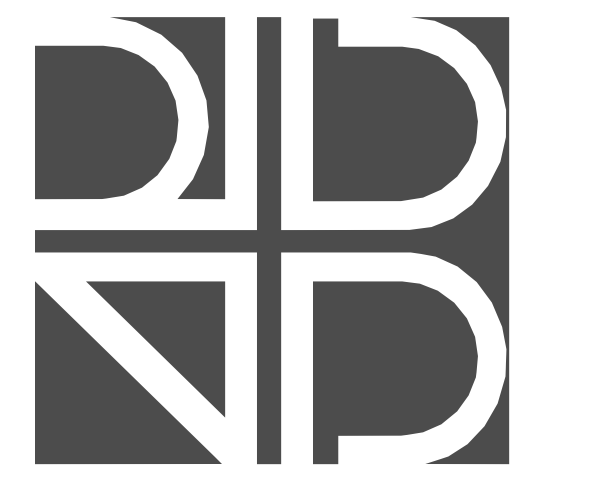
2
M-101
ELECTRICAL ROOM ENLARGED PLAN-HVAC NEW WORK
SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO M-100 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. CONTRACTOR SHALL COORDINATE DUCT ROUTING WITH STRUCTURAL MEMBERS.
3. COORDINATE DESTRUCTIVE DEMOLITION, IF REQUIRED, WITH OWNER.
4. FOR ALL DUCTWORK TURNS, PROVIDE RADIUS ELBOWS. IF IMPEDED BY SPACE CONSTRAINTS, MITERED ELBOWS WITH TURNING VANES MAY BE USED.
5. CONTRACTOR SHALL OPERATE EXISTING FIRE DAMPERS SHOWN AND REPLACE FUSIBLE LINKS.
6. CONTRACTOR SHALL REBALANCE ALL EXISTING SUPPLY DIFFUSERS TO CFM VALUES INDICATED.
7. CONTRACTOR SHALL REBALANCE EXISTING VAV BOXES TO VALUES INDICATED. SEE M-601 FOR EXISTING VAV SCHEDULES.

KEY NOTES:

- ① NEW 8X8 SUPPLY DUCTWORK OFF EXISTING SUPPLY DUCTWORK. COORDINATE WALL PENETRATION WITH NEW ELECTRICAL EQUIPMENT LOCATIONS.
- ② NEW FIRE DAMPER SIMILAR TO RUSKIN "DFD35" OR EQUAL FIRE DAMPER TO BE MAINTAINED THROUGH SIDEWALL GRILLE.
- ③ BALANCE EXHAUST FAN "EF-23" TO ORIGINAL AIRFLOW OF 375 CFM.



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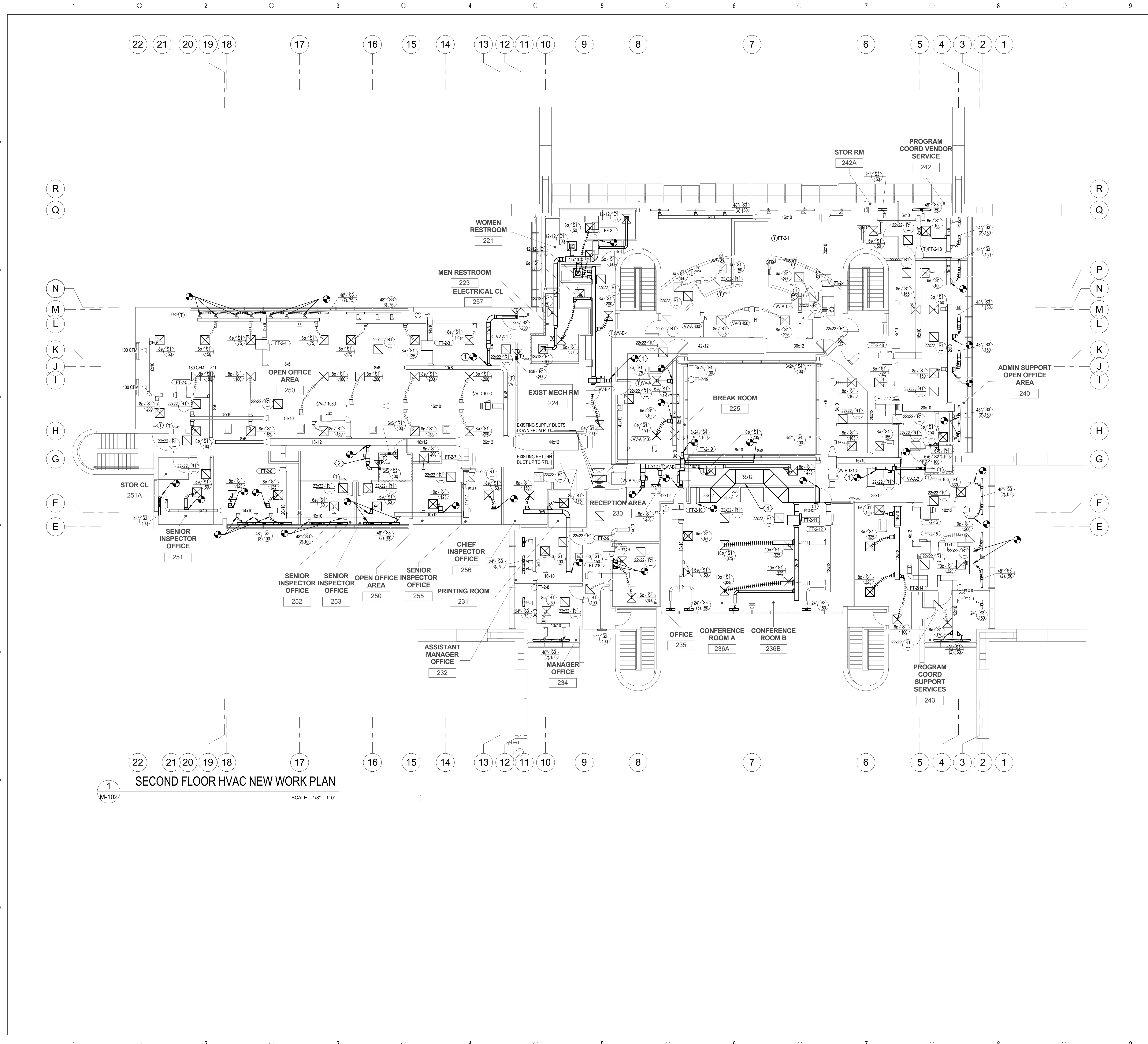
BID DOCUMENTS

DATE	SUBMISSION / REVISION	NO.

**FIRST FLOOR HVAC
NEW WORK PLAN**

SCALE: AS INDICATED
DRAWN BY: P. ROWAN
CHECK BY: M. MCQUINN
DATE: 05/30/2018
PROJECT NUMBER: 15012-0011

M-101

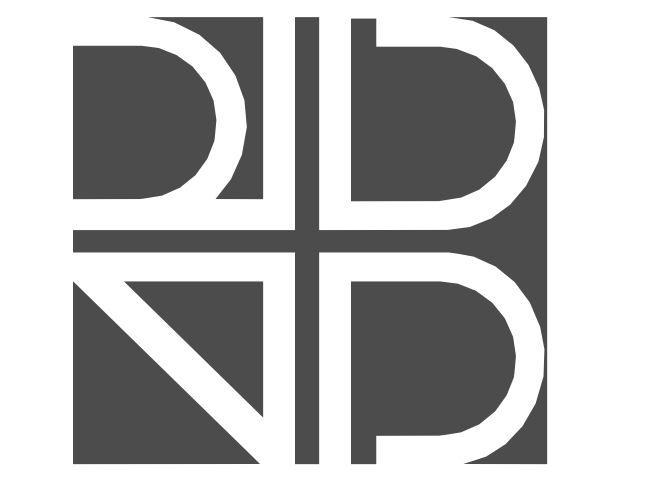


GENERAL NOTES:

1. REFER TO M-100 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. CONTRACTOR SHALL COORDINATE DUCT ROUTING WITH STRUCTURAL MEMBERS.
3. COORDINATE DESTRUCTIVE DEMOLITION, IF REQUIRED, WITH OWNER.
4. FOR ALL DUCTWORK TURNS, PROVIDE RADIUS ELBOWS. IF IMPEDED BY SPACE CONSTRAINTS, MITERED ELBOWS WITH TURNING VANES MAY BE USED.
5. CONTRACTOR SHALL OPERATE EXISTING FIRE DAMPERS SHOWN AND REPLACE FUSIBLE LINKS.
6. CONTRACTOR SHALL REBALANCE ALL EXISTING SUPPLY DIFFUSERS TO CFM VALUES INDICATED.
7. CONTRACTOR SHALL REBALANCE EXISTING VAV BOXES TO VALUES INDICATED. SEE M-601 FOR EXISTING VAV SCHEDULES.

KEY NOTES:

- ① PROVIDE AND INSTALL NEW VAV TERMINAL UNIT AT LOCATION SHOWN. CONTRACTOR SHALL MAINTAIN MANUFACTURER AND N.E.C. REQUIRED CLEARANCES.
- ② RELOCATE EXISTING VAV TERMINAL UNIT TO LOCATION SHOWN. CONTRACTOR SHALL MAINTAIN MANUFACTURER AND N.E.C. REQUIRED CLEARANCES. CONTRACTOR TO ENSURE VAV IS IN GOOD WORKING ORDER.
- ③ EXISTING MECHANICAL EQUIPMENT AND DUCTWORK TO BE RELOCATED AT LOCATION SHOWN. REBALANCE AIR TERMINALS TO CFM VALUES INDICATED.
- ④ OFFSET SUPPLY DUCTWORK AT LOCATION SHOWN TO AVOID CLASHES WITH NEW ROOM PARTITION COMPONENTS AND STRUCTURAL MEMBERS.



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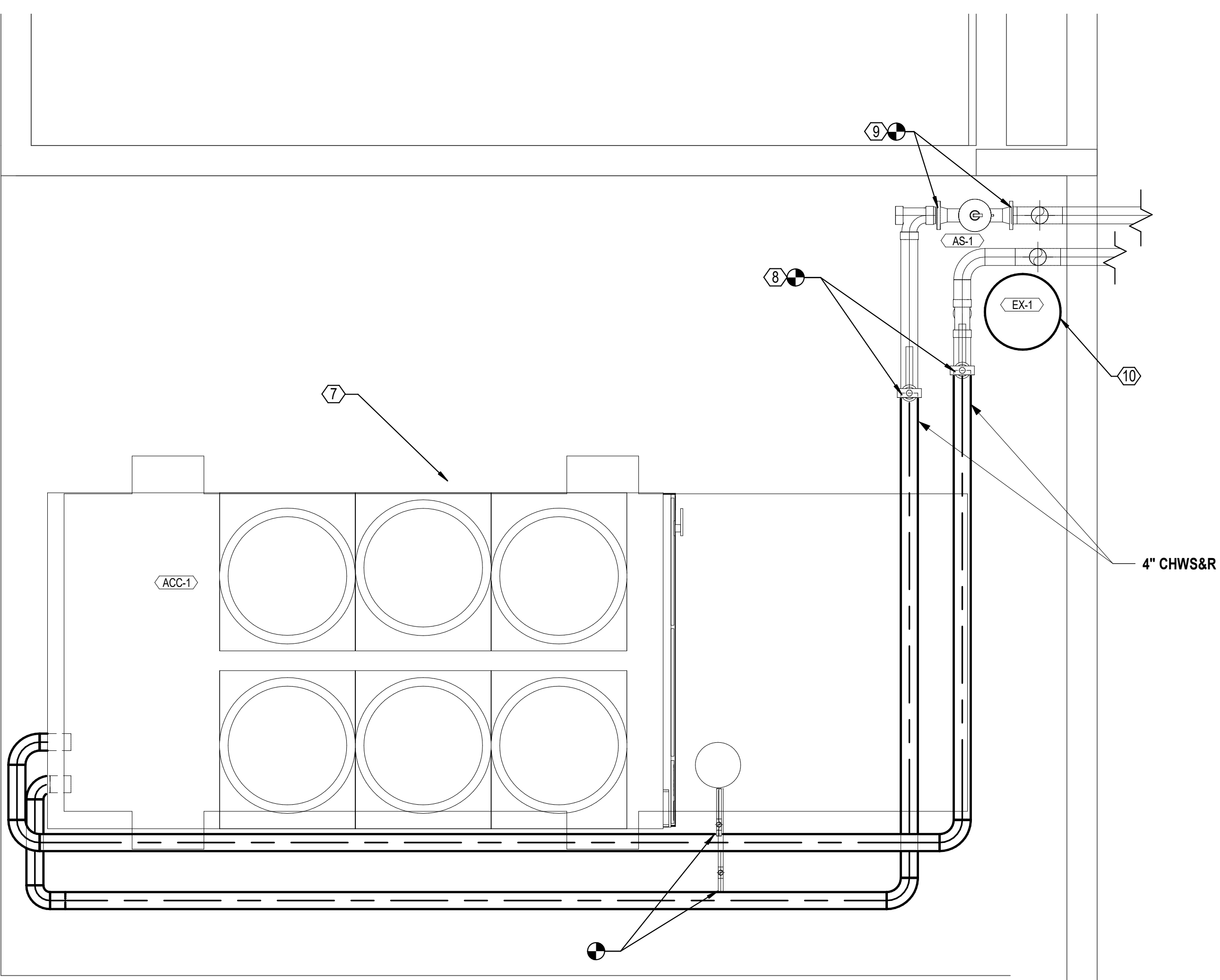
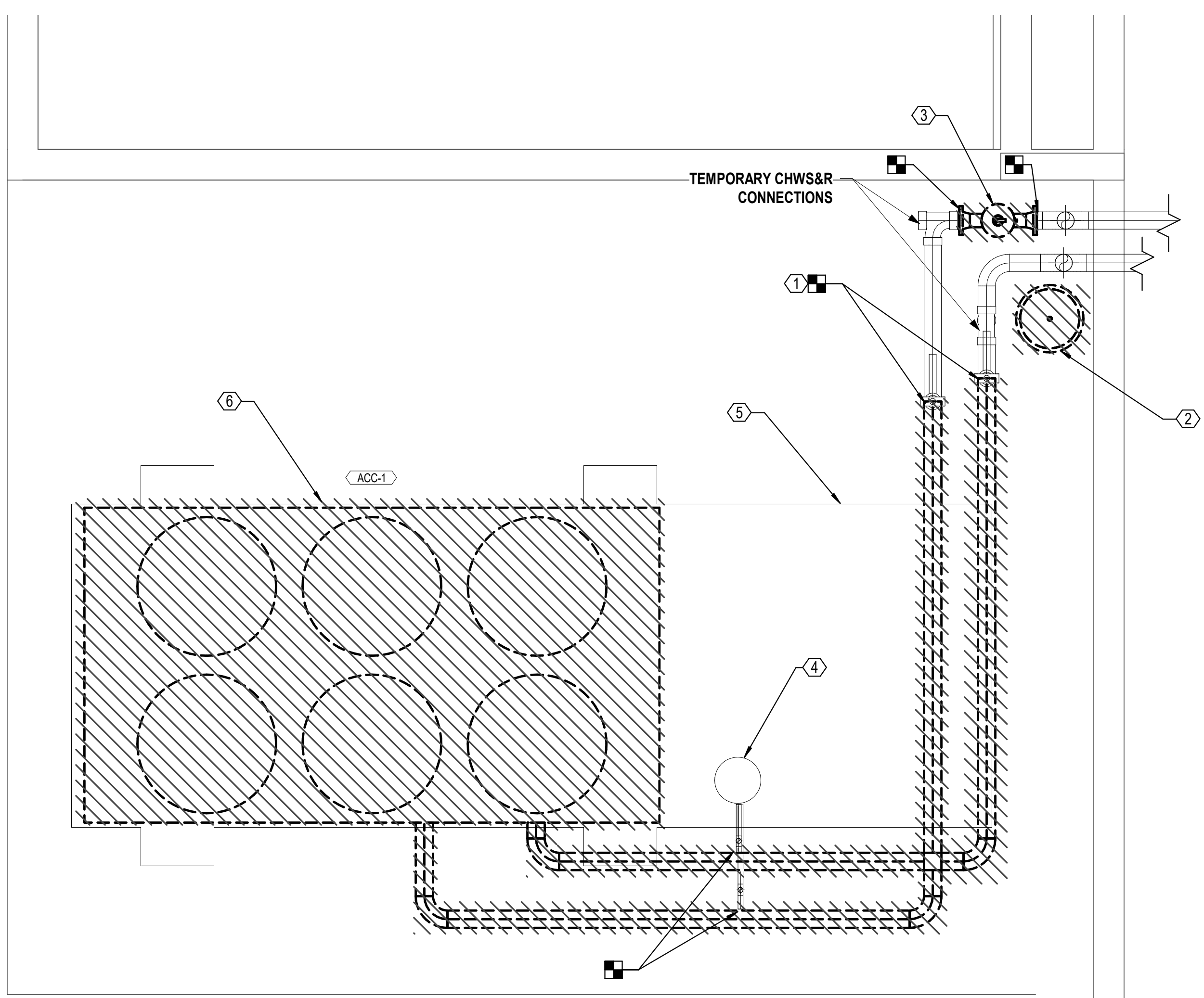
BID DOCUMENTS

DATE	SUBMISSION / REVISION	NO.

**SECOND FLOOR HVAC
 NEW WORK PLAN**

SCALE: AS INDICATED
 DRAWN BY: P. ROWAN
 CHECK BY: M. MCQUINN
 DATE: 05/30/2018
 PROJECT NUMBER: 15012-0011

M-102

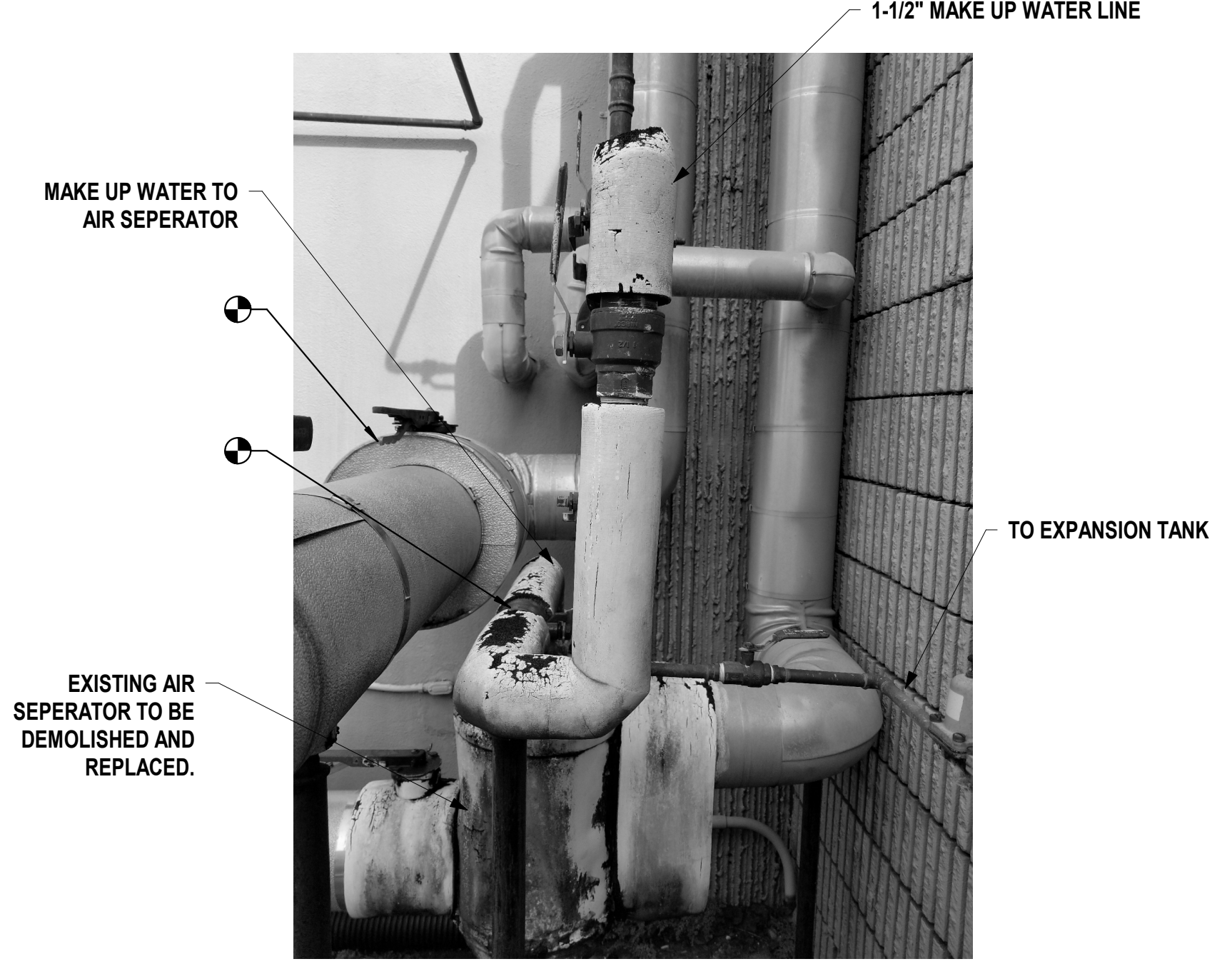


1 M-103 HVAC DEMO PLAN-CHILLER YARD SCALE: 1/2" = 1'-0"

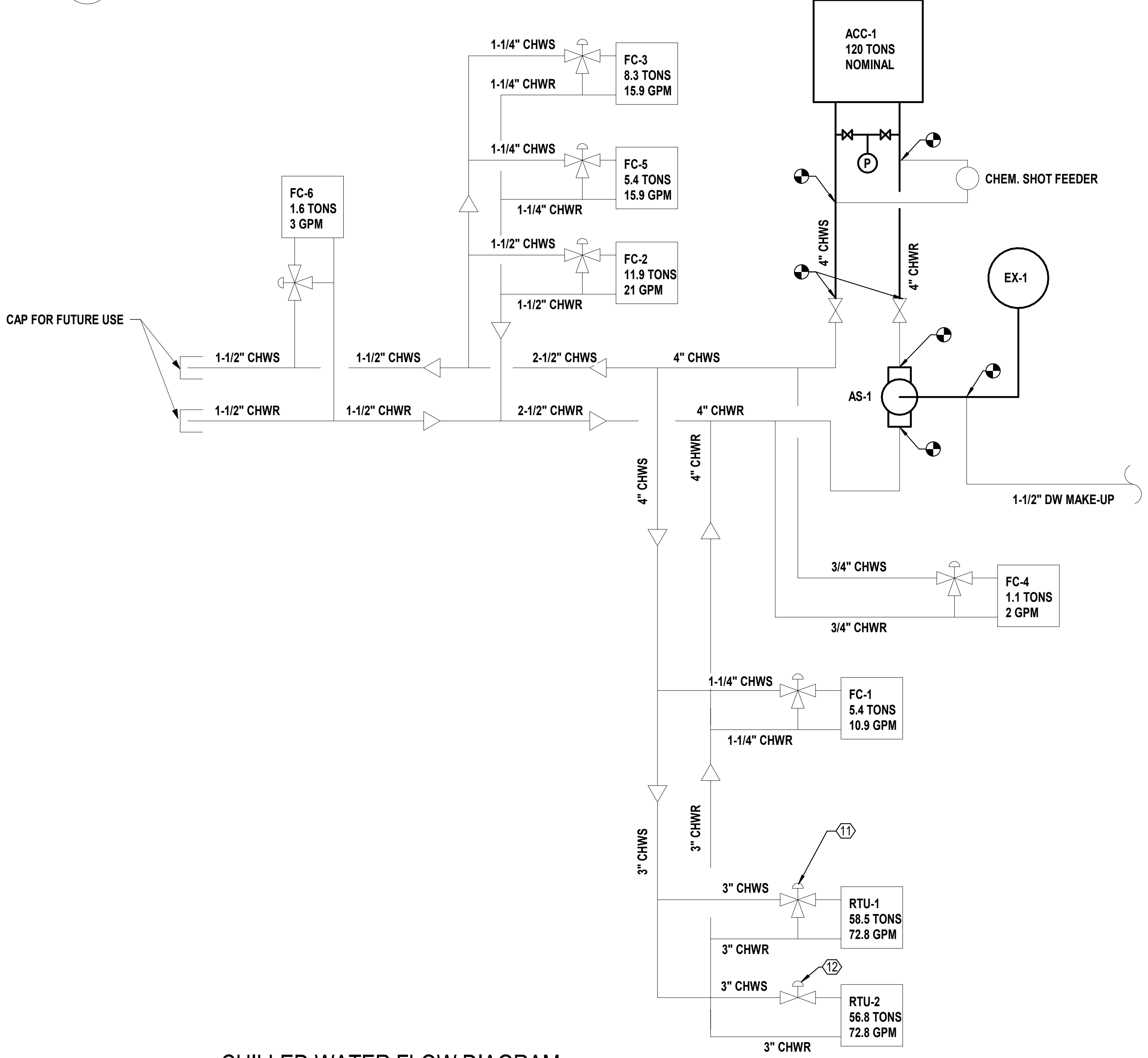
2 M-103 HVAC NEW WORK PLAN-CHILLER YARD SCALE: 1/2" = 1'-0"



4 M-103 REFERENCE PHOTO 1 SCALE: 1 1/2" = 1'-0"



5 M-103 REFERENCE PHOTO 2 SCALE: 1 1/2" = 1'-0"



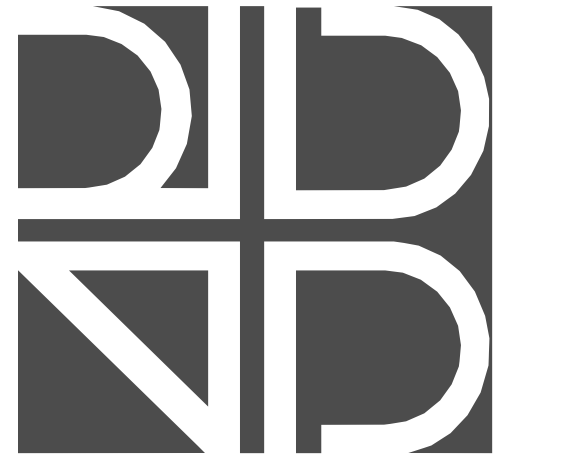
3 M-103 CHILLED WATER FLOW DIAGRAM SCALE: 1/2" = 1'-0"

GENERAL NOTES:

1. REFER TO M-100 FOR LEGEND, ABBREVIATIONS AND GENERAL NOTES.
2. COORDINATE DEMOLITION WITH OTHER CONTRACTORS.
5. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH OCCUPIED BUILDING AREAS. SERVICE TO OTHER PARTS OF BUILDING SHALL REMAIN ACTIVE.
4. DISCONNECT, CAP, AND IDENTIFY DESIGNATED UTILITIES WITHIN DEMOLITION AREAS.
5. DEMOLISH IN AN ORDERLY AND CAREFUL MANNER. PROTECT EXISTING SUPPORTING STRUCTURAL MEMBERS AND PARTITIONS TO REMAIN.
6. EXCEPT WHERE NOTED OTHERWISE, REMOVE DEMOLISHED MATERIALS FROM SITE. DO NOT DISPOSE OF ANY MATERIAL ON SITE.
7. REMOVE DEMOLISHED MATERIAL FROM SITE AS WORK PROGRESSES. UPON COMPLETION OF WORK LEAVE AREAS IN CLEAN CONDITION.
8. COMPLETELY REMOVE ALL PIPING, DUCTWORK, HANGERS, ETC.
9. PROVIDE REINSULATION TO EXISTING DISTRIBUTION AND SERVICES SCHEDULED TO REMAIN IN USE.
10. DEMOLITION SHALL INCLUDE REMOVAL OF ALL STRAPS, HANGERS, CLAMPS, CHANNEL, AND OTHER DEVICES USED FOR SUPPORTING EQUIPMENT.
11. DRAIN, VENT, OR DISCHARGE MECHANICAL SYSTEMS PRIOR TO DISASSEMBLY.
12. IN MECHANICAL SYSTEMS BEING REMOVED, BLANK OFF, PLUG, OR CAP ALL BRANCH LINES (DUCTWORK OR PIPING) SCHEDULED FOR DEMOLITION WHERE THEY TIE INTO MAIN LINES TO REMAIN.
13. DEMOLITION INCLUDES REMOVAL OF EQUIPMENT, SELECTED DUCTWORK, PIPING, ETC. THE DEMOLITION DRAWINGS SHOW THE GENERAL SCOPE OF ITEMS TO BE REMOVED. IT IS THE MECHANICAL CONTRACTORS RESPONSIBILITY TO REMOVE ALL ASSOCIATED EQUIPMENT AND MATERIALS THAT ARE NOT SPECIFICALLY IDENTIFIED TO BE REUSED, TO PRODUCE A CLEAN AND WORKABLE SYSTEM.
14. REMOVE ALL OBSOLETE, FREE HANGING AND OPEN OR DEAD ENDED AIR, GLYCOL PIPING OR DUCT.
15. THE MECHANICAL DRAWINGS ARE DIAGRAMMATICAL. IT IS NOT POSSIBLE OR THE INTENT TO SHOW ALL PIECES OF THE SYSTEMS BEING REMOVED AND/OR INSTALLED UNDER THE CONTRACT. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE A COMPLETE, RELIABLE AND WORKING SYSTEM. IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO DEMOLISH ALL MATERIALS ASSOCIATED TO REMOVALS TO PROVIDE A "LIKE NEW" APPEARANCE WITHIN THE SPACES (IE NO HANGERS, TUBING ETC. ABANDONED IN PLACE UNLESS DIRECTED TO DO SO).
16. ALL BUILDING AUTOMATED SYSTEM COMMUNICATIONS/CONTROL WIRES TO BE REMOVED BY JOHNSON CONTROLS INC. COORDINATE WITH OWNER DURING DEMOLITION.

KEY NOTES:

- ① DISCONNECT EXISTING 4" CHWS&R LINES AT EXISTING SHUT-OFF VALVES.
- ② EXISTING EXPANSION TANK TO BE DEMOLISHED.
- ③ EXISTING AIR SEPARATOR TO BE DEMOLISHED.
- ④ EXISTING CHEMICAL FEED TO ASSEMBLY REMAIN. DISCONNECT PIPING AT EXISTING SHUT-OFF VALVES.
- ⑤ EXISTING CONCRETE HOUSEKEEPING TO REMAIN.
- ⑥ EXISTING CHILLER TO BE DEMOLISHED.
- ⑦ NEW AIR COOLED CHILLER. REFER TO M-801 FOR SCHEDULE.
- ⑧ ROUTE NEW 4" CHWS&R LINES FROM CHILLER TO EXISTING CHWS&R CONNECTIONS. SEE DETAIL 7, SHEET M-501 FOR HYDRONIC ACCESSORIES. PROVIDE WITH 2" FOAMGLAS INSULATION WITH ALL PURPOSE JACKET AND 0.032" EMBOSSED ALUMINUM JACKET WITH STAINLESS STEEL STRAPS. SEAL JACKET SEAM AND LOCATE AT BOTTOM OF PIPE TO LOWER CHANCE OF RAIN PENETRATION THROUGH JACKET.
- ⑨ PROVIDE AND INSTALL NEW AIR SEPARATOR. REFER TO AIR SEPARATOR SCHEDULE ON SHEET M801.
- ⑩ PROVIDE AND INSTALL NEW CHILLED WATER EXPANSION TANK. REFER TO EXPANSION TANK SCHEDULE ON SHEET M801. MOUNTAIN EXPANSION TANK ON EXISTING CONCRETE HOUSEKEEPING PAD.
- ⑪ PROVIDE AND INSTALL NEW 3-WAY CONTROL VALVE IN PLACE OF EXISTING 3-WAY CONTROL VALVE. SEE M801 FOR CONTROL VALVE SCHEDULE.
- ⑫ PROVIDE AND INSTALL NEW 2-WAY CONTROL VALVE IN PLACE OF EXISTING 3-WAY CONTROL VALVE. SEE M801 FOR CONTROL VALVE SCHEDULE.



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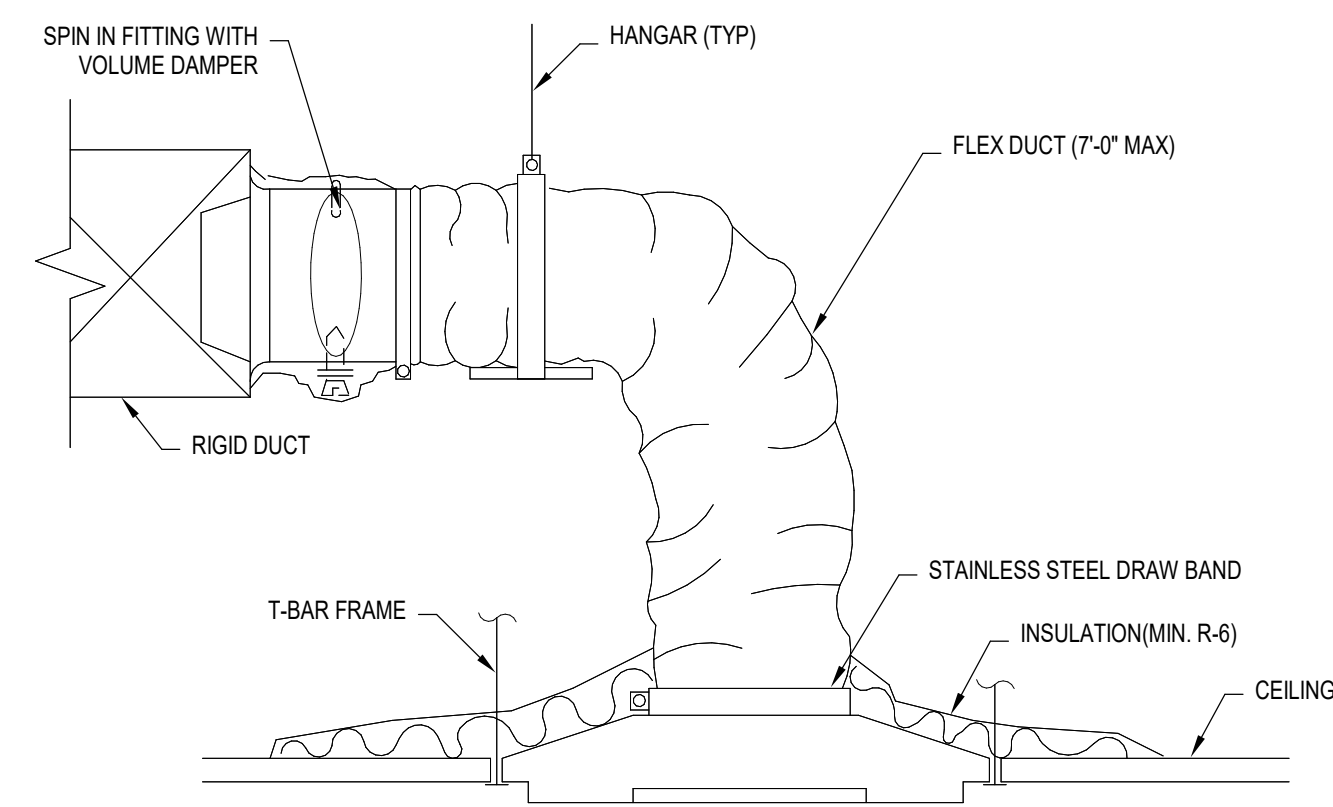
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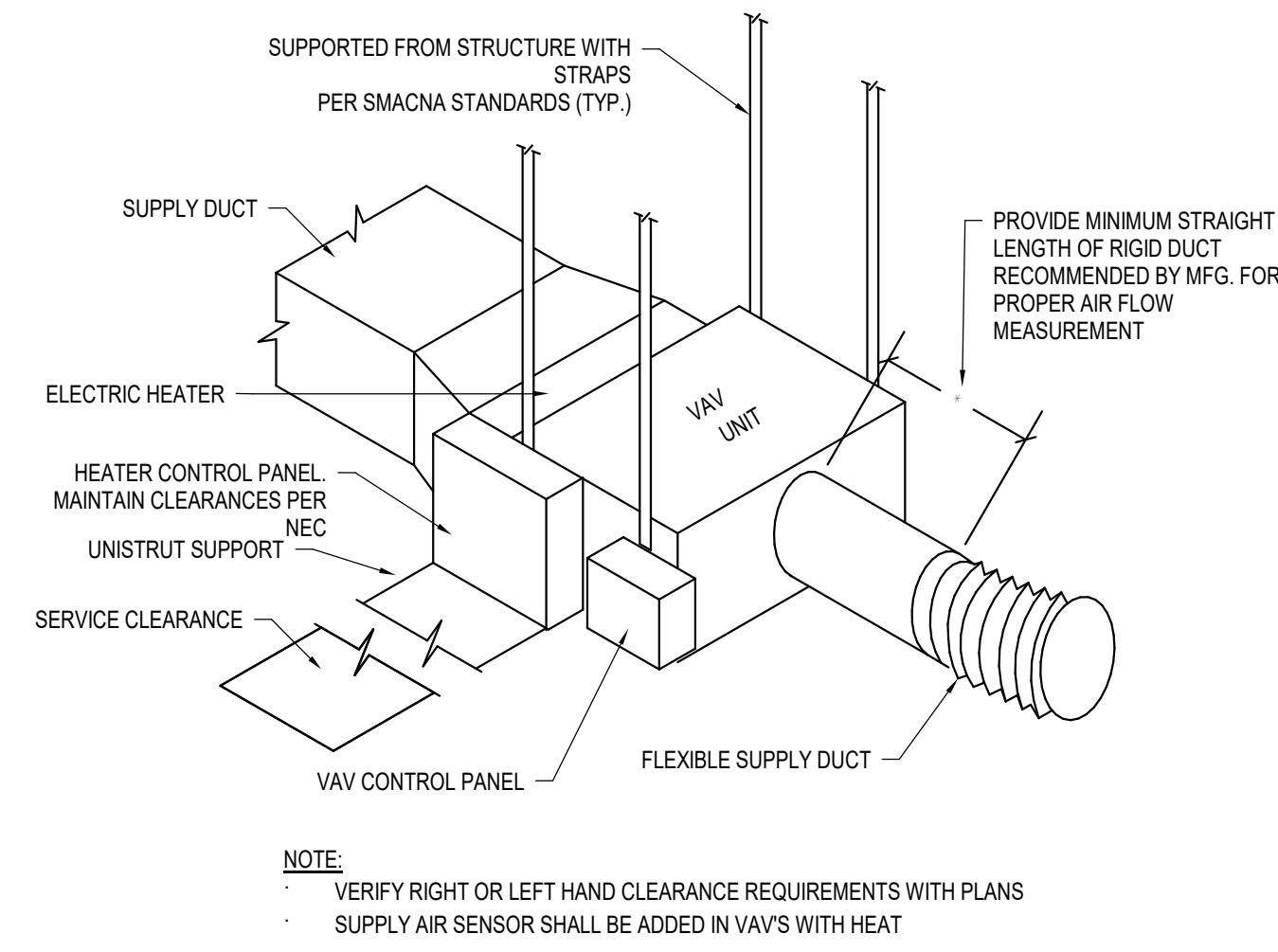
HVAC WORK PLAN-
CHILLER YARD

SCALE: AS INDICATED
DRAWN BY: P. ROWAN
CHECK BY: M. MCQUINN
DATE: 05/30/2018
PROJECT NUMBER: 15012-0011

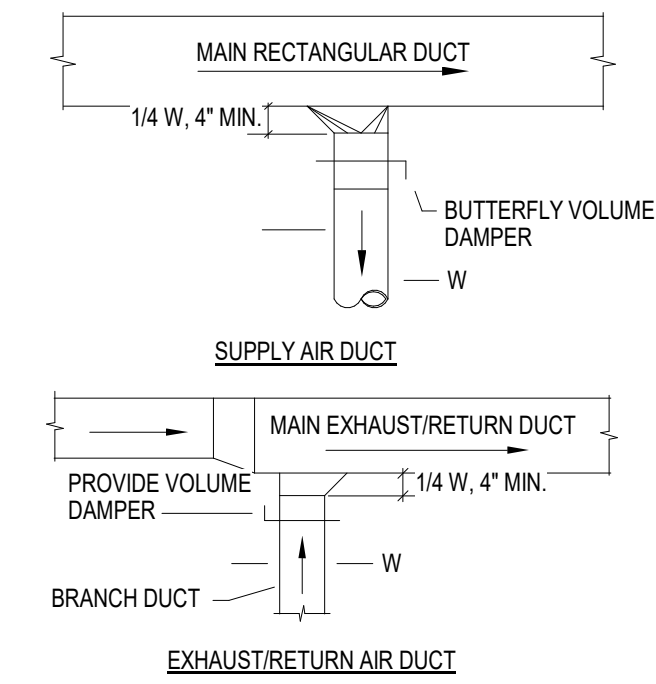
M-103



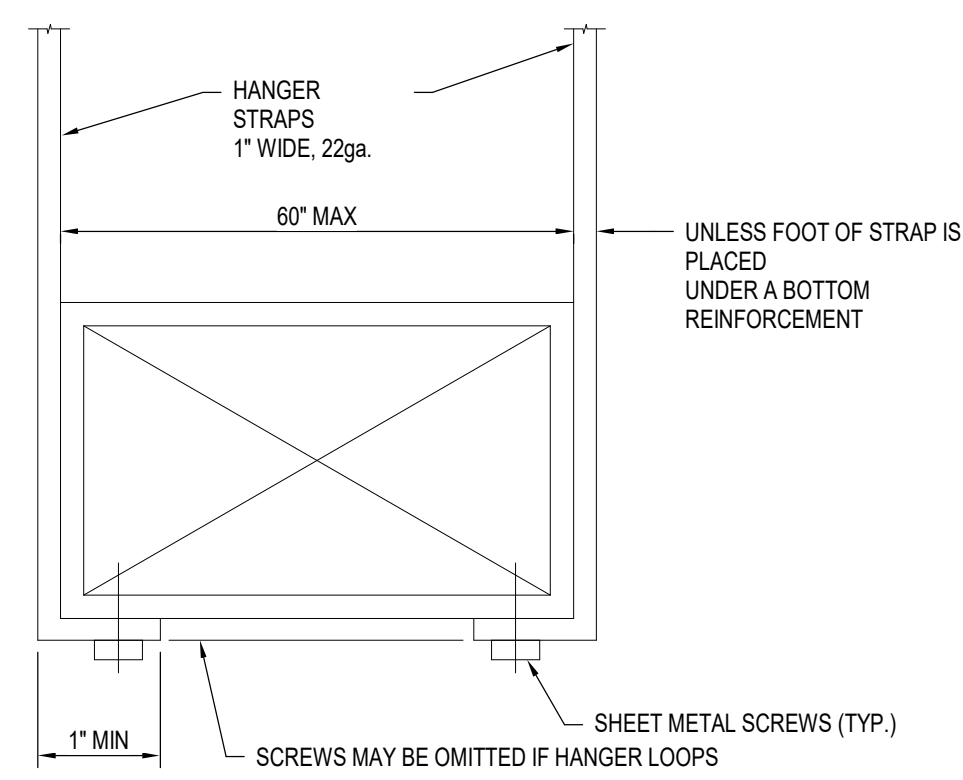
1 FLEXIBLE DUCT TO DIFFUSER DETAIL
SCALE: 12" = 1'-0"



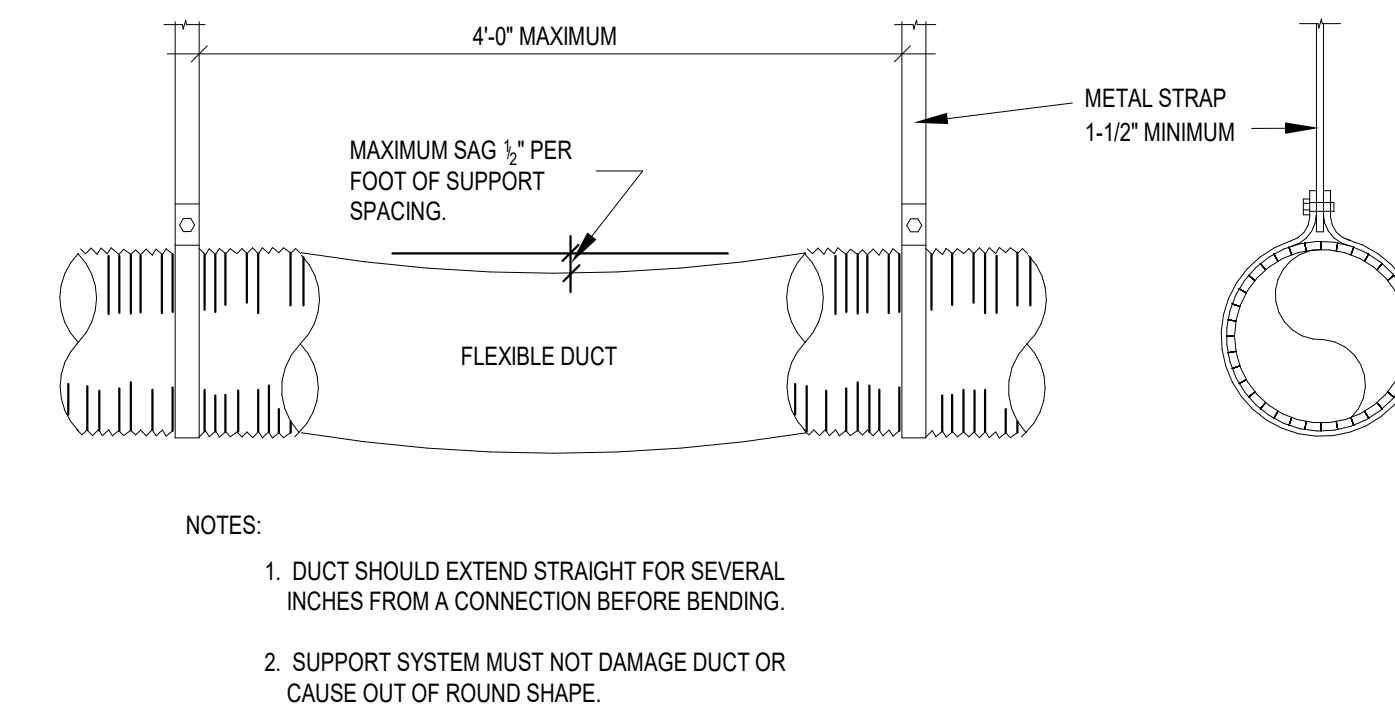
2 VAV INSTALLATION DETAIL
SCALE: 12" = 1'-0"



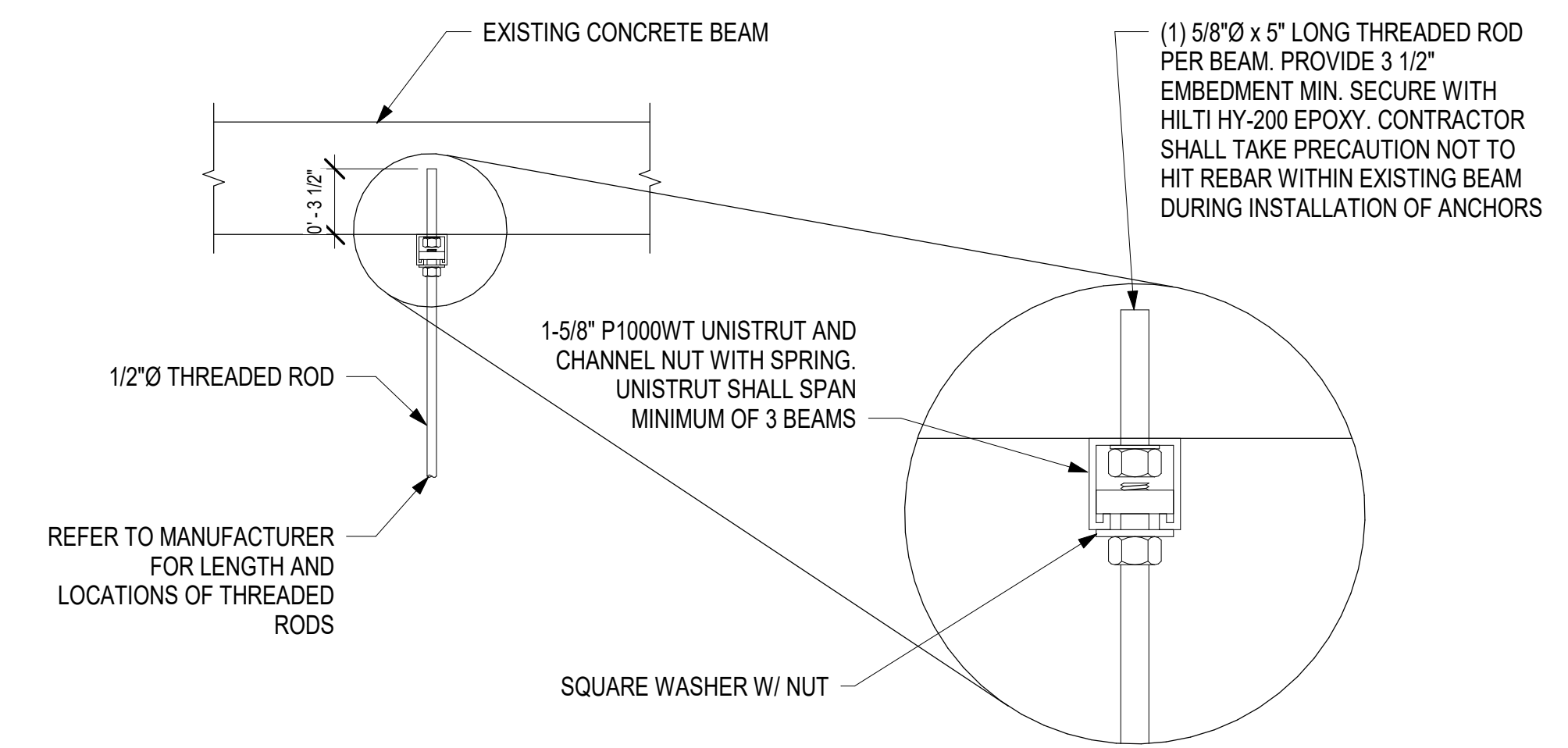
3 BRANCH CONNECTION DETAIL
SCALE: 12" = 1'-0"



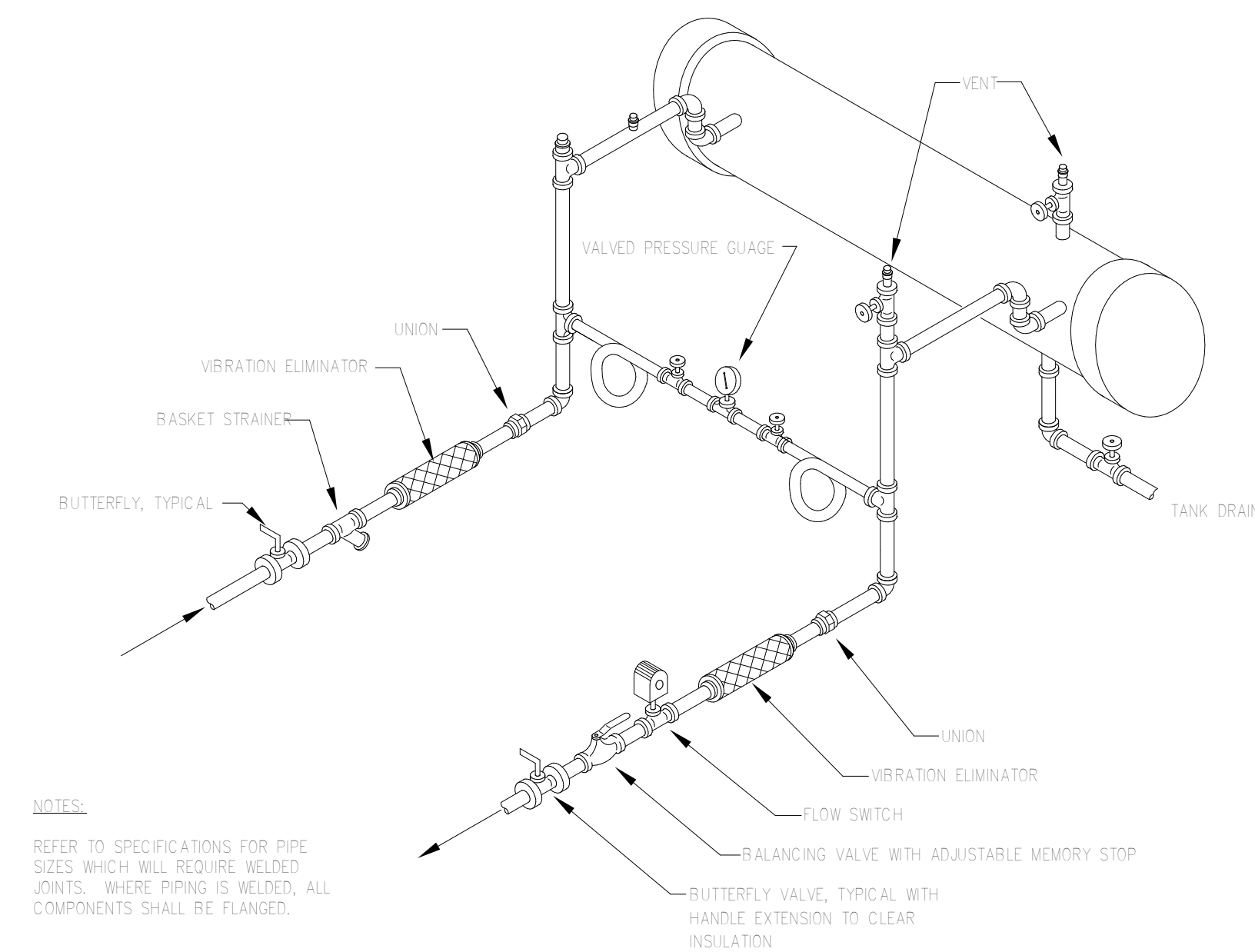
4 RIGID DUCT SUPPORT DETAIL
SCALE: 12" = 1'-0"



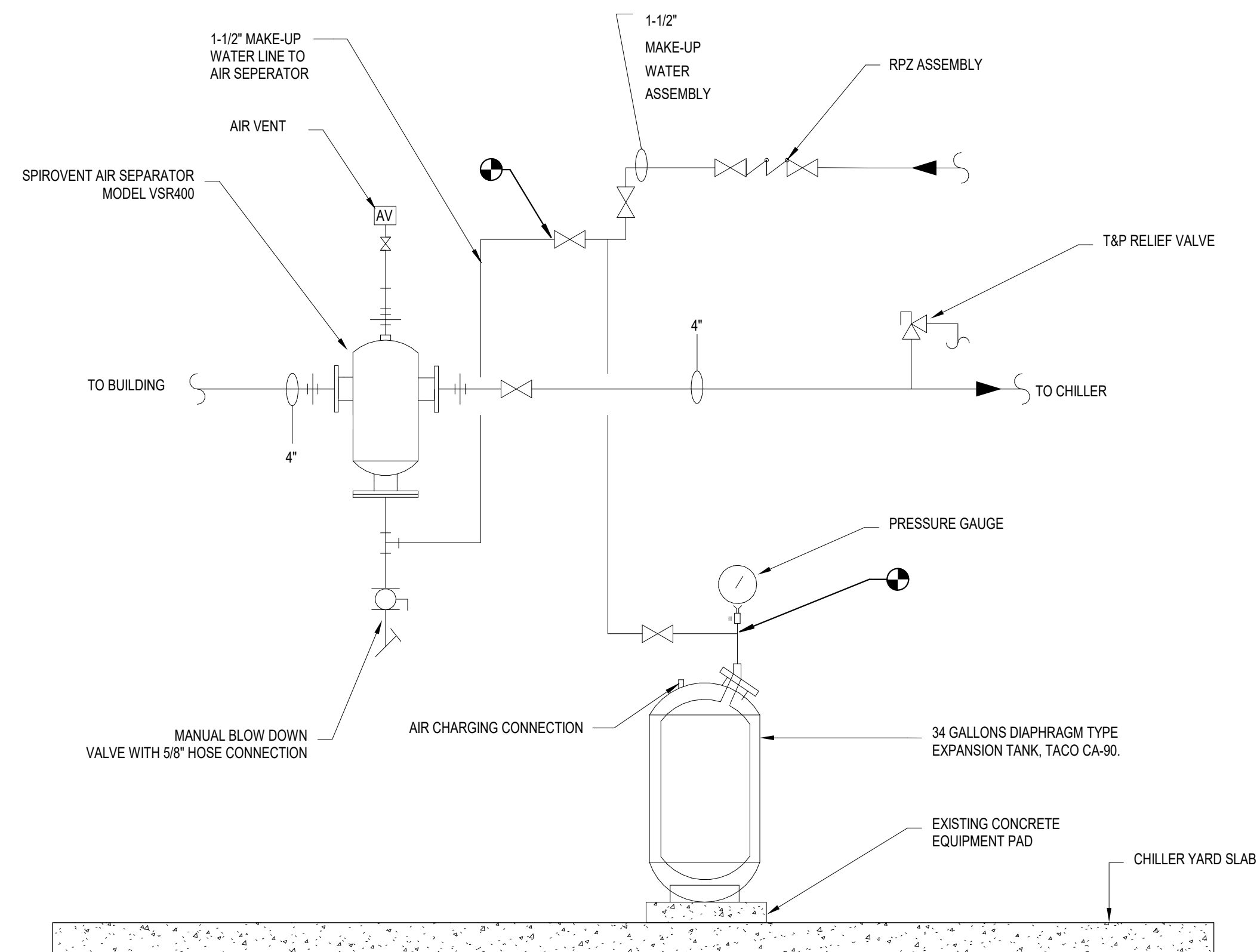
5 FLEXIBLE DUCT SUPPORT DETAIL
SCALE: 12" = 1'-0"



6 THREADED ROD ATTACHMENT
SCALE: 1 1/2" = 1'-0"



7 AIR COOLED CHILLER PIPING CONNECTION
SCALE: 1/8" = 1'-0"



8 MAKE-UP WATER & EXPANSION TANK CONN. DETAIL
SCALE: 12" = 1'-0"



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DETAIL SHEET

SCALE: AS INDICATED
DRAWN BY: P. ROWAN
CHECK BY: M. MCQUINN
DATE: 05/30/2018
PROJECT NUMBER: 15012-0011

M-501

EXISTING VAV TERMINAL UNIT SCHEDULE						
MARK	MAXIMUM CFM	MANUFACTURER	MODEL NO.	SIZE	ESP (in. wc.)	ELECTRICAL DATA (V/PH/W)
VV-A 150	250 CFM	TITUS	AESV3000	6	0.4	120/1/60
VV-A 250	250 CFM	TITUS	AESV3000	6	0.4	120/1/60
VV-A 300	300 CFM	TITUS	AESV3000	6	0.4	120/1/60
VV-A 340	400 CFM	TITUS	AESV3000	6	0.4	120/1/60
VV-B 450	800 CFM	TITUS	AESV3000	8	0.4	120/1/60
VV-B 700	700 CFM	TITUS	AESV3000	8	0.4	120/1/60
VV-D 1000	1000 CFM	TITUS	AESV3000	12	0.4	120/1/60
VV-D 1080	1500 CFM	TITUS	AESV3000	12	0.4	120/1/60
VV-E 1315	2000 CFM	TITUS	AESV3000	14	0.4	120/1/60

EXISTING FAN TERMINAL UNIT SCHEDULE													
MARK	SUPPLY CFM	AREA SERVED	MANUFACTURER	MODEL NO.	SIZE	ELECTRIC HEATING COIL			FAN SECTION				
						PRIMARY AIR CFM	KW	V/PH/W	NO. OF STEPS	FAN CFM	STATIC PRESSURE	MOTOR HP	VOLTAGE
FT-2-1	1200 CFM	atrium- open to below	TITUS	MFV3000	12	1200	6	480/3/60	2	400	0.5	1/4	277
FT-2-3	825 CFM	women's restroom/ men's restroom/ stor 33	TITUS	MFV3000	12	825	4	480/3/60	2	400	0.5	1/4	277
FT-2-4	1260 CFM	stor 33 west	TITUS	MFV3000	12	825	6	480/3/60	2	400	0.5	1/4	277
FT-2-5	550 CFM	stor 33 west	TITUS	MFV3000	6	550	3	480/3/60	1	400	0.5	1/4	277
FT-2-6	1260 CFM	stor 33/ senior inspector 46/ senior inspector 45	TITUS	MFV3000	12	1260	6	480/3/60	2	500	0.5	1/4	277
FT-2-7	575 CFM	stor 33/ senior inspector 43/ printing 35	TITUS	MFV3000	12	940	2	480/3/60	1	400	0.5	1/4	277
FT-2-8	950 CFM	manager 8	TITUS	MFV3000	12	950	2	480/3/60	1	400	0.5	1/4	277
FT-2-9	300 CFM	stor 33 corridor/ office 31	TITUS	MFV3000	8	300	2	480/3/60	1	400	0.5	1/10	277
FT-2-10	600 CFM	conference rooms 7	TITUS	MFV3000	10	600	2	480/3/60	1	400	0.5	1/4	277
FT-2-11	800 CFM	conference rooms 7	TITUS	MFV3000	12	800	2	480/3/60	1	400	0.5	1/4	277
FT-2-12	800 CFM	conference rooms 7	TITUS	MFV3000	12	800	2	480/3/60	1	400	0.5	1/4	277
FT-2-14	620 CFM	stor 33 southeast	TITUS	MFV3000	10	620	2	480/3/60	1	400	0.5	1/4	277
FT-2-15	885 CFM	stor 33 southeast	TITUS	MFV3000	12	885	4	480/3/60	2	400	0.5	1/4	277
FT-2-16	630 CFM	stor 33 southeast	TITUS	MFV3000	10	630	4	480/3/60	2	400	0.5	1/4	277
FT-2-17	1350 CFM	stor 33 east	TITUS	MFV3000	12	1350	4	480/3/60	2	400	0.5	1/4	277
FT-2-18	1000 CFM	program coord./ vendor service 42	TITUS	MFV3000	12	1015	4	480/3/60	2	400	0.5	1/4	277
FT-2-19	400 CFM	atrium- open to below	TITUS	MFV3000	8	400	4	480/3/60	2	300	0.5	1/10	277

DIFFUSER/RETURN GRILLE SCHEDULE				
MARK / LEGEND	TYPE	MFG.	MODEL	NOTES
NECK SIZE → 100 S1 → MARK QUANTITY TYP → (2) 200 → CFM	ROUND NECK, SQUARE CEILING SUPPLY DIFFUSER	PRICE	ASCD	2,3,4,5,6,7
NECK SIZE → 18x12 S2 → MARK QUANTITY TYP → (2) 200 → CFM	SIDEWALL RECTANGULAR SUPPLY GRILLE	PRICE	520	1,5,7
LENGTH → 48" S3 → MARK QUANTITY TYP → (2) 200 → CFM	JET-SLOT TYPE 21, SINGLE SLOT LINEAR SUPPLY GRILLE	PRICE	JS215	4,5,6,7
NECK SIZE → 22x22 R1 → MARK QUANTITY TYP → (2) 200 → CFM	CEILING OR SIDEWALL RETURN AIR GRILLE	PRICE	635	1,2,4,5
NECK SIZE → 22x22 E1 → MARK QUANTITY TYP → (2) 200 → CFM	CEILING OR SIDEWALL EXHAUST AIR GRILLE	PRICE	635	1,2,4,5

NOTES:

- PROVIDE WITH OPPOSED BLADE VOLUME DAMPER.
- PROVIDE 24x24 FULLY LOUVERED FACE LAYIN MODULE WHERE LOCATED IN LAYIN CEILING OR SUSPENDE FROM DUCTWORK.
- FACTORY INSULATED BACKS ON ALL CEILING DIFFUSERS MUST BE PROVIDED.
- COORDINATE BORDER TYPES WITH ARCHITECTURAL FLOOR PLAN AND REFLECTED CEILING PLAN.
- COORDINATE FINISH WITH ARCHITECTURAL.
- WHERE DIFFUSER BALANCING DAMPER IS INACCESSIBLE, PROVIDE A CONCEALED REMOTE OPERATOR SIMILAR TO YOUNG REGULATOR 270-301 BESIDE DIFFUSER/GRILLE.
- PROVIDE WITH FACTORY INSULATED SUPPLY PLENUM

PACKAGED AIR COOLED CHILLER SCHEDULE																						
UNIT NO.	LOCATION	REFRIGERANT TYPE	DESIGN AMBIENT (°F)	CAPACITY (TONS)		EVAPORATOR					COMPRESSOR			EER (SEER)	ELECTRICAL				SOUND (DB)	WEIGHT (LBS)	BASIS OF DESIGN [MANUFACTURER]	REMARKS
				ACTUAL	NOMINAL	FLUID	EWT (°F)	LWT (°F)	GPM	WPD (FT HD)	TYPE	QTY	# OF CIRCUITS		VOLTS	PHASE	MCA	MOCP				
ACC-1	CHILLER YARD	R410A	95	118.4	120	WATER	44	56	231.5	10.2	SCROLL	4	2	10.32	480	3	273	300	95	10700	TRANE CGAM120	ALL

NOTES:

- PROVIDE WITH ULTRA LOW SOUND COMPRESSOR SOUND ENCLOSURES.
- PROVIDE WITH LOW SOUND CONDENSER FANS WITH VARIABLE SPEED DRIVE.
- PROVIDE WITH MICROCHANNEL CONDENSER COIL, ALUMINUM FINS/COPPER TUBES.
- PROVIDE WITH LOUVERED CONDENSER HAIL GUARDS.
- PROVIDE WITH INTEGRAL DUAL 7.5 HP, 80 FT. WG. EXTERNAL PUMP PACKAGE.
- THE CHILLER INTO EXISTING BAS CONTROL SYSTEM. WORK TO BE PERFORMED BY JOHNSON CONTROLS INC. COORDINATE WITH OWNER DURING CONSTRUCTION.
- CHILLER SHALL BE MOUNTED ON EXISTING CONCRETE HOUSEKEEPING PAD. PROVIDE NEOPRENE PADS AT CHILLER CONNECTION POINTS.
- APPROVED MANUFACTURERS: TRANE, MCQUAY, DAIKIN.
- CHILLER TO BE PROVIDED WITH BACNET CARD FOR BUILDING CONTROL COMPATIBILITY. CARD TO BE INSTALLED BY MANUFACTURER PRIOR TO DELIVERY.

AIR SEPARATOR SCHEDULE								
UNIT NO.	LOCATION	SYSTEM SERVED	GPM	CONNECTION SIZE (IN)	COALESCING MEDIUM	BODY CONST. MAT'L	BASIS OF DESIGN [MANUFACTURER]	REMARKS
AS-1	CHILLER YARD	CHILLED WATER	231.5	4	COPPER	STEEL	SPIROTHERM VSR-400	---

EXPANSION TANK SCHEDULE										
UNIT NO.	ORIENTATION	TANK VOLUME (GAL)	ACCEPT VOLUME (GAL)	DIMENSIONS		FLUID	PIPE MATERIAL	ASME PRESSURE RATING	BASIS OF DESIGN [MANUFACTURER]	REMARKS
				HEIGHT	DIA					
EX-1	CHILLER YARD	34	23	29.1	20	WATER	STEEL	125	TACO CA-90	(1)

REMARKS:

- BLADDER TYPE

CONTROL VALVE SCHEDULE						
EQUIP TAG.	MFR.	GPM	QTY.	MODEL	DESCRIPTION	Cv
RTU-1	BELIMO	72.8	1	B340-AFR24-MFT	1-1/2" 3-WAY MODULATING CHARACTERIZED CONTROL VALVE, NORMALLY OPEN, FAIL OPEN	37
RTU-2	BELIMO	72.8	1	B240-AFR24-MFT	1-1/2" 2-WAY MODULATING CHARACTERIZED CONTROL VALVE, NORMALLY OPEN, FAIL OPEN	37

VAV UNIT SCHEDULE										
MARK	MANUFACTURER	MODEL NO.	TYPE- SEE NOTE 1	SIZE	MAX.	MIN.	HEATING	KW	V/PH/W	NO. OF STEPS
VV-A-1	PRICE	SDV	V	6	200	50	100	1.0	120/1	2
VV-A-2	PRICE	SDV	V	6	100	50	50	1.0	120/1	2
VV-B-1	PRICE	SDV	V	8	600	125	300	1.0	120/1	2

GENERAL NOTES (APPLIES TO ALL UNITS):

- VAV TYPE: "V"- SINGLE DUCT VARIABLE VOLUME TERMINAL UNIT, "P"- FAN-POWERED PARALELL TERMINAL UNIT.
- PROVIDE A MINIMUM OF (2) STAGES OF ELECTRIC HEAT.
- TIE VAV INTO EXISTING BAS CONTROL SYSTEM. WORK TO BE PERFORMED BY JOHNSON CONTROLS INC. COORDINATE WITH OWNER DURING CONSTRUCTION.
- NEW CONTROLLERS SHALL MATCH EXISTING OR BE COMPATIBLE WITH EXISTING SYSTEM.
- NEW VAVS TO FOLLOW MATCH EXISTING VAV SEQUENCE OF OPERATION.

DUCT CONSTRUCTION SCHEDULE						
SERVICE	SMACNA PRESSURE CLASS	MATERIAL	ALLOWABLE SEAMS	SEALING REQUIREMENTS	INSULATION	REMARKS
SUPPLY AIR DUCTS						
FROM AHU CONNECTION TO 20 FEET DOWNSTREAM ON SUPPLY SIDE FOR VAV SYSTEMS	+3"	DOUBLEWALL ROUND / FLAT OVAL OR RECTANGULAR COMPLETE WITH PERFORATED INNER LINER AND MYLAR FILM SEPARATING INSULATION FROM AIR STREAM	GROOVED, STANDING, SINGLE-CORNER, DOUBLE-CORNER AND PITTSBURGH-LOCK AND ALL OTHER ROLLED MECHANICAL SEAMS	MASTIC WITH EMBEDDED FABRIC OR GASKETS	1" THICK INTERNALLY LINED	
FROM 20 FEET DOWNSTREAM OF AHU TO TERMINAL UNIT FOR VAV SYSTEMS	+3"	SINGLE WALL SHEET METAL ROUND / FLAT OVAL OR RECTANGULAR	GROOVED, STANDING, SINGLE-CORNER, DOUBLE-CORNER AND PITTSBURGH-LOCK AND ALL OTHER ROLLED MECHANICAL SEAMS	MASTIC WITH EMBEDDED FABRIC OR GASKETS	CONCEALED - 2" THICK EXTERNAL WRAP EXPOSED - 1-1/2" RIGID BOARD	
DOWNSTREAM OF VAV TERMINALS						
	+1"	SINGLE WALL SHEET METAL	GROOVED, STANDING, SINGLE-CORNER, DOUBLE-CORNER AND PITTSBURGH-LOCK AND ALL OTHER ROLLED MECHANICAL SEAMS	MASTIC WITH EMBEDDED FABRIC OR GASKETS	CONCEALED - 2" THICK EXTERNAL WRAP EXPOSED - 1-1/2" RIGID BOARD	
RETURN AIR DUCTS						
ALL RETURN AIR DUCTWORK	-2"	SINGLE WALL SHEET METAL	GROOVED, STANDING, SINGLE-CORNER, DOUBLE-CORNER AND PITTSBURGH-LOCK AND ALL OTHER ROLLED MECHANICAL SEAMS	MASTIC WITH EMBEDDED FABRIC OR GASKETS	CONCEALED - 2" THICK EXTERNAL WRAP EXPOSED - 1-1/2" RIGID BOARD	
EXHAUST AIR DUCTS						
GENERAL BATHROOM EXHAUST DUCTS	-1"	SINGLE WALL SHEET METAL	GROOVED, STANDING, SINGLE-CORNER, DOUBLE-CORNER AND PITTSBURGH-LOCK AND ALL OTHER ROLLED MECHANICAL SEAMS	MASTIC WITH EMBEDDED FABRIC OR GASKETS	NONE	

GENERAL NOTES:

- ALL DUCTWORK IS TO BE FABRICATED, SUPPORTED AND INSTALLED PER SMACNA STANDARDS AND FLORIDA MECHANICAL CODE REQUIREMENTS.
- DUCTWORK TO BE G90 GALVANIZED SHEET METAL, UNLESS OTHERWISE NOTED.
- REFER TO DUCTWORK SPECIFICATION SECTION FOR FURTHER INFORMATION REGARDING PRESSURE CLASS, MATERIAL, AND INSULATION, IF PROVIDED.

REMARKS:

NONE



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SCHEDULES

SCALE: AS INDICATED

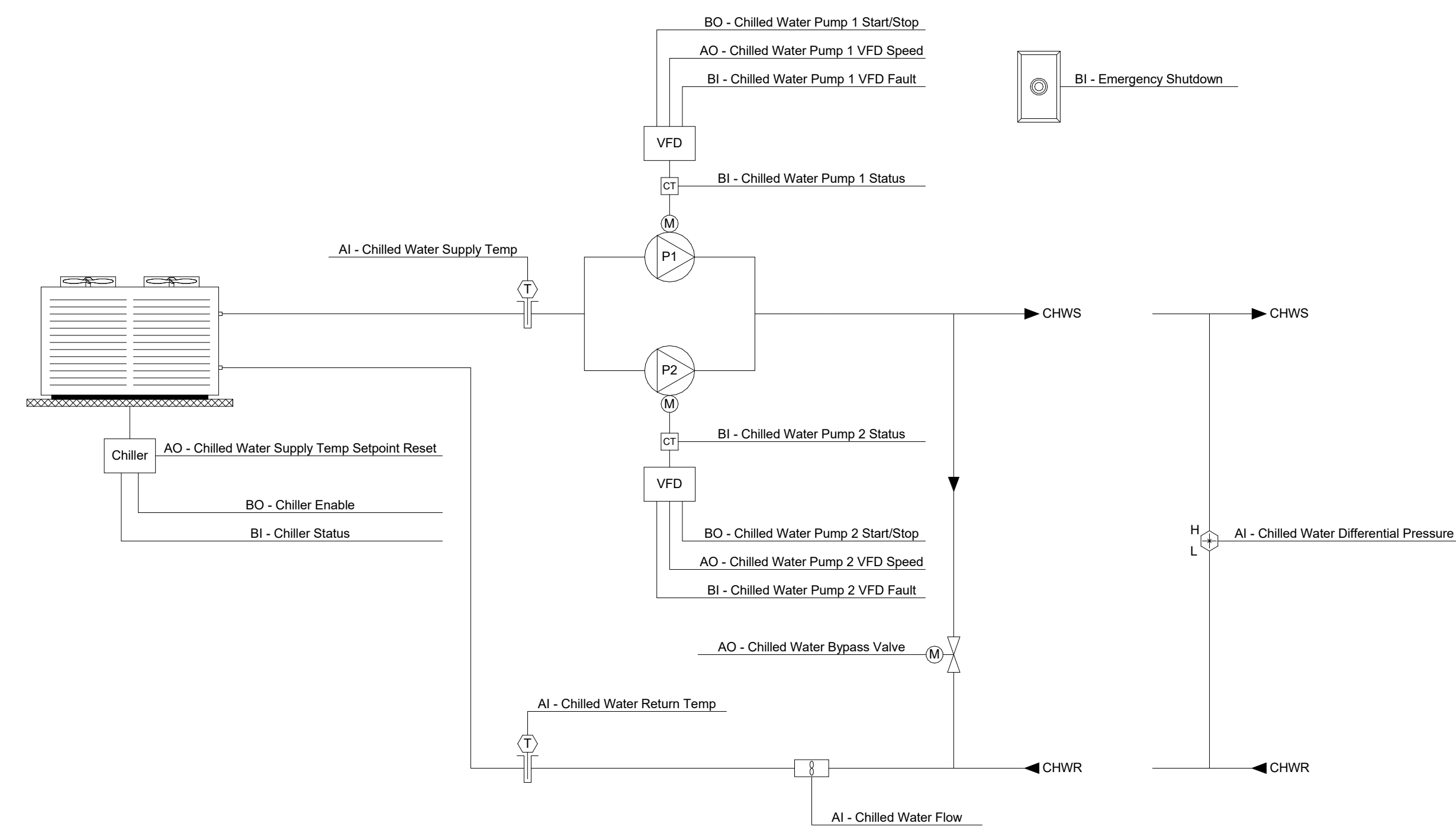
DRAWN BY: P. ROWAN

CHECK BY: M. MCQUINN

DATE: 05/30/2018

PROJECT NUMBER: 15012-0011

M-601



Single Air Cooled Chiller

Chiller - Run Conditions:
The chiller shall be enabled to run whenever it is commanded to be enabled by the chiller manager program. The chiller shall run subject to its own internal safeties and controls.

Emergency Shutdown:
The chiller shall shut down and an alarm generated upon receiving an emergency shutdown signal status.

Chilled Water Pump Lead/Standby Operation:
The two chilled water pumps shall run anytime the chiller is called to run. The chilled water pump shall also run for freeze protection whenever the outside air temperature is less than a user definable setpoint (adj.).

The lead pump shall start prior to the chiller being enabled and shall stop only after the chiller is disabled. The pump(s) shall therefore have:

- A user adjustable delay on start.
- AND a user adjustable delay on stop.

The delay times shall be set appropriately to allow for orderly chilled water system start-up, shutdown and sequencing.

The two pumps shall operate in a lead/standby fashion.

- The lead pump shall run first.
- On failure of the lead pump, the standby pump shall run and the lead pump shall turn off.

The designated lead pump shall rotate upon one of the following conditions (user selectable):

- manually through a software switch
- if pump runtime (adj.) is exceeded
- daily
- weekly
- monthly

Alarms shall be provided as follows:

- Chilled Water Pump 1
 - Failure: Commanded on, but the status is off.
 - Running in Hand: Commanded off, but the status is on.
 - Runtime Exceeded: Status runtime exceeds a user definable limit.
 - VFD Fault.
- Chilled Water Pump 2
 - Failure: Commanded on, but the status is off.
 - Running in Hand: Commanded off, but the status is on.
 - Runtime Exceeded: Status runtime exceeds a user definable limit.
 - VFD Fault.

Chilled Water Differential Pressure Control:

The controller shall measure chilled water differential pressure and modulate the lead chilled water pump VFD to maintain its chilled water differential pressure setpoint. The following setpoints are recommended values. All setpoints shall be field adjusted during the commissioning period to meet the requirements of actual field conditions.

The controller shall modulate chilled water pump speed to maintain a chilled water differential pressure of 12lb/in2 (adj.). The VFD minimum speed shall not drop below 30% (adj.).

Alarms shall be provided as follows:

- High Chilled Water Differential Pressure: If the chilled water differential pressure is 25% (adj.) greater than setpoint.
- Low Chilled Water Differential Pressure: If the chilled water differential pressure is 25% (adj.) less than setpoint.

Chilled Water Minimum Flow Control:

Last air handling unit has three-way valve intended to flow minimum gpm through chiller.

Chiller:

The chiller shall be enabled a user adjustable time after pump statuses are proven on. The chiller shall therefore have a user adjustable delay on start.

The delay time shall be set appropriately to allow for orderly chilled water system start-up, shutdown and sequencing.

The chiller shall run subject to its own internal safeties and controls.

Alarms shall be provided as follows:

- Chiller Failure: Commanded on, but the status is off.
- Chiller Running in Hand: Commanded off, but the status is on.
- Chiller Runtime Exceeded: Status runtime exceeds a user definable limit.

Chilled Water Supply Temperature - Setpoint Reset:

The chilled water supply temperature setpoint shall reset using a trim and respond algorithm based on cooling requirements.

The chilled water supply temperature setpoint shall reset to a lower value as the facility's chilled water valves open beyond a user definable threshold (90% open, typ.). Once the chilled water coils are satisfied (valves closing) then the chilled water supply temperature setpoint shall gradually rise over time to reduce cooling energy use.

Chilled Water Temperature Monitoring:

The following temperatures shall be monitored:

- Chilled water supply.
- Chilled water return.

Alarms shall be provided as follows:

- High Chilled Water Supply Temp: If the chilled water supply temperature is greater than 55°F (adj.).
- Low Chilled Water Supply Temp: If the chilled water supply temperature is less than 38°F (adj.).

2. Variable Air Volume - Terminal Unit

Run Conditions - Scheduled:

The unit shall run according to a user definable time schedule in the following modes:

- Occupied Mode: The unit shall maintain
 - A 74°F (adj.) cooling setpoint
 - A 70°F (adj.) heating setpoint.
- Unoccupied Mode (night setback): The unit shall maintain
 - A 65°F (adj.) cooling setpoint.
 - A 55°F (adj.) heating setpoint.

Alarms shall be provided as follows:

- High Zone Temp: If the zone temperature is greater than the cooling setpoint by a user definable amount (adj.).
- Low Zone Temp: If the zone temperature is less than the heating setpoint by a user definable amount (adj.).

Zone Setpoint Adjust:

The occupant shall be able to adjust the zone temperature heating and cooling setpoints at the zone sensor.

Zone Optimal Start:

The unit shall use an optimal start algorithm for morning start-up. This algorithm shall minimize the unoccupied warm-up or cool-down period while still achieving comfort conditions by the start of scheduled occupied period.

Zone Unoccupied Override:

A timed local override control shall allow an occupant to override the schedule and place the unit into an occupied mode for an adjustable period of time. At the expiration of this time, control of the unit shall automatically return to the schedule.

Reversing Variable Volume Terminal Unit - Flow Control:

The unit shall maintain zone setpoints by controlling the airflow through one of the following:

Occupied:

- When zone temperature is greater than its cooling setpoint the zone damper shall modulate between the minimum unoccupied airflow (adj.) and the maximum cooling airflow (adj.) until the zone is satisfied.
- When the zone temperature is between the cooling setpoint and the heating setpoint, the zone damper shall maintain the minimum required zone ventilation (adj.).
- When zone temperature is less than its heating setpoint, the controller shall enable heating to maintain the zone temperature at its heating setpoint. Additionally, if warm air is available from the AHU, the zone damper shall modulate between the minimum occupied airflow (adj.) and the maximum heating airflow (adj.) until the zone is satisfied.

Unoccupied:

- When the zone is unoccupied the zone damper shall control to its minimum unoccupied airflow (adj.).
- When the zone temperature is greater than its cooling setpoint, the zone damper shall modulate between the minimum unoccupied airflow (adj.) and the maximum cooling airflow (adj.) until the zone is satisfied.
- When zone temperature is less than its unoccupied heating setpoint the controller shall enable heating to maintain the zone temperature at the setpoint. Additionally, if warm air is available from the AHU, the zone damper shall modulate between the minimum unoccupied airflow (adj.) and the auxiliary heating airflow (adj.) until the zone is satisfied.

Electric Reheating Stages:

The controller shall measure the zone temperature and stage the reheating to maintain its setpoint. To prevent short cycling, there shall be a user definable (adj.) delay between stages, and each stage shall have a user definable (adj.) minimum runtime.

The reheating shall be enabled whenever:

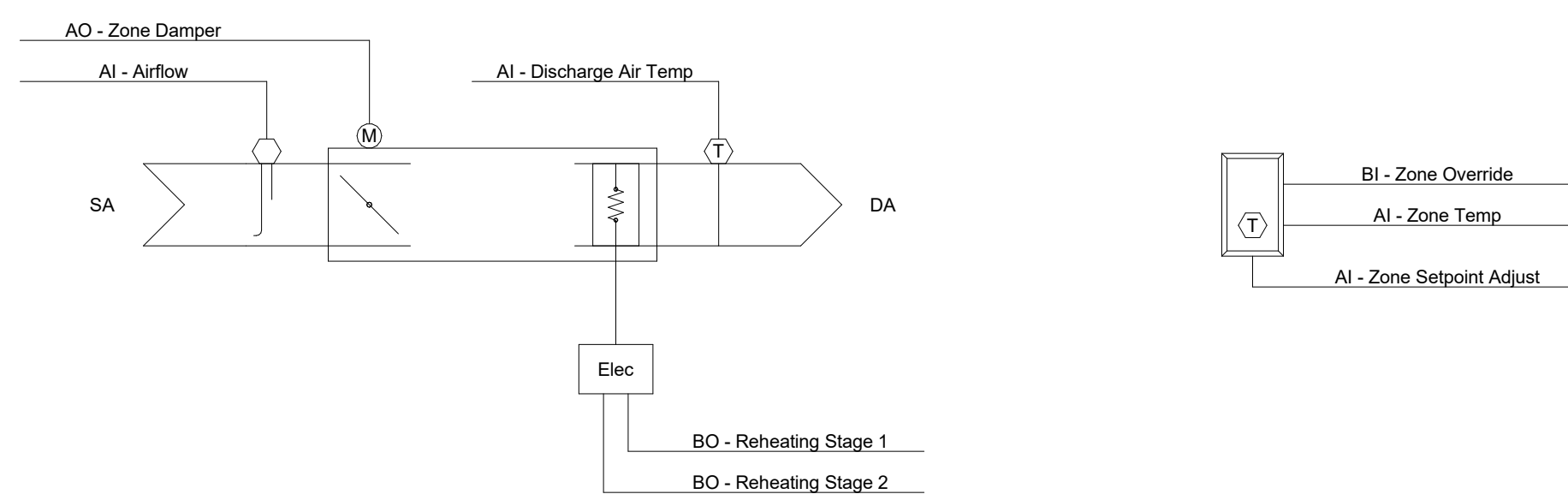
- Outside air temperature is less than 65°F (adj.).
- AND the zone temperature is below setpoint.
- AND sufficient airflow is provided.

Discharge Air Temperature:

The controller shall monitor the discharge air temperature.

Alarms shall be provided as follows:

- High Discharge Air Temp: If the discharge air temperature is greater than 120°F (adj.).
- Low Discharge Air Temp: If the discharge air temperature is less than 40°F (adj.).



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Orange County Government

**Orange County
Government Capital
Project Division**

**Orange County Code
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Seal 07/07/17

MATTHEW P. MCQUINN
72488

BID DOCUMENTS

DATE	SUBMISSION / REVISION	NO.
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HVAC CONTROLS

SCALE: AS INDICATED

DRAWN BY: P. ROWAN

CHECK BY: M. MCQUINN

DATE: 05/30/2018

PROJECT NUMBER: 15012-0011

M-701

LEGEND

	DUPLEX RECEPTACLE, MOUNT 18" AFF UNLESS OTHERWISE NOTED
	QUAD RECEPTACLE, MOUNT 18" AFF UNLESS OTHERWISE NOTED
	GROUND FAULT CIRCUIT INTERRUPTER TYPE, MOUNT 48" AFF UNLESS OTHERWISE NOTED
	SINGLE POLE TOGGLE SWITCH
	SINGLE POLE TOGGLE SWITCH WITH DUAL TECHNOLOGY OCCUPANCY SENSOR
	THREE-WAY TOGGLE SWITCH
	COMBINATION MOTOR STARTER/CIRCUIT BREAKER DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	NON FUSED DISCONNECT SWITCH
	SURFACE MOUNTED PANEL
	BRANCH CIRCUIT HOME RUN WITH CIRCUIT NUMBER SEE PANEL SCHEDULES FOR DETAILS
	WALL MOUNTED LUMINAIRE, LETTER DENOTES TYPE, SEE LUMINAIRE SCHEDULE
	2'x4' LUMINAIRE, LETTER DENOTES TYPE, SEE LUMINAIRE SCHEDULE
	2'x2' LUMINAIRE, LETTER DENOTES TYPE, SEE LUMINAIRE SCHEDULE
	2'x4' EMERGENCY FIXTURE, PROVIDE EMERGENCY BALLAST AND CIRCUIT AHEAD OF ASSOCIATED SWITCHING
	1'x4' EMERGENCY FIXTURE, PROVIDE EMERGENCY BALLAST AND CIRCUIT AHEAD OF ASSOCIATED SWITCHING
	2'x2' LUMINAIRE, LETTER DENOTES TYPE, SEE LUMINAIRE SCHEDULE CONNECTED TO EMERGENCY POWER SUPPLY, SEE PANEL SCHEDULE

CODE AUTHORITY

ELECTRICAL
2014 NATIONAL ELECTRIC CODE
FLORIDA BUILDING CODE, 6TH ED. (2017)

ABBREVIATIONS

AC	ABOVE COUNTER	JB	JUNCTION BOX
ACCJ	AIR COOLED CONDENSING UNIT	KA	KILO AMP
AFF	ABOVE FINISHED FLOOR	KV	KILO VOLT
AFG	ABOVE FINISHED GRADE	KVA	KILO VOLT AMP
AJ	AT UNIT	KVHD	KILOWATT-HOUR DEMAND METER
BFG	BELOW FINISHED GRADE	LP	LIGHTING PANEL
CDP	CLOCK DISTRIBUTION PANEL	NC	NORMALLY CLOSED
CH	CHILLER	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
CLL	CONTRACT LIMIT LINE	NO	NORMALLY OPEN
CT	CURRENT TRANSFORMER	PB	PULL BOX
CTB	CLOCK TERMINAL BOX	PF	POWER FEEDER
DP	DISTRIBUTION PANEL	PT	POTENTIAL TRANSFORMER
DFM	DISTRIBUTION PANEL MAIN	PV	PANEL UNIT VENTILATOR
EF	EXHAUST FAN	REM	REMARKS
EMT	ELECTRIC METALLIC TUBING	RGS	RIGID GALVANIZED STEEL CONDUIT
EP	EXPLOSION PROOF	UV	UNIT VENTILATOR
FACP	FIRE ALARM CONTROL PANEL	VFD	VARIABLE FREQUENCY DRIVE
FC	FAN COIL	WP	WATER PROOF
FDSD	FIRE DAMPER/SMOKE DAMPER		
GF	GROUND FAULT INTERRUPTER TYPE		
GND	GROUND		

DEMOLITION NOTES

1. THE CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSAL, SO AS TO BECOME FAMILIAR WITH EXISTING WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COORDINATION WITH OTHER TRADES IN EQUIPMENT ROUTING AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER MAY BE NECESSARY AND ALL REQUIRED COORDINATION BETWEEN TRADES SHALL BE CONSIDERED AS PART OF THIS CONTRACT. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. FIELD VERIFY DIMENSIONS OF ALL EXISTING CONDITIONS, PRIOR TO BID AND INCLUDE ANY DEVIATIONS IN THE CONTRACT.
2. ALL DEVICES AND EQUIPMENT NOT SHOWN AND IN AREAS OUTSIDE OF THE SCOPE OF WORK SHALL REMAIN ACTIVE UNLESS OTHERWISE NOTED. INSTALL TEMPORARY SERVICES AS REQUIRED TO MAINTAIN CONTINUITY TO EXISTING DEVICES AND EQUIPMENT THAT REMAIN.
3. ALL EQUIPMENT AND MATERIAL REMOVED AND NOT REUSED SHALL BE TURNED OVER TO THE OWNER OR AT THE OWNERS REQUEST DISPOSED OF BY THE CONTRACTOR.
4. ALL ELECTRICAL DEVICES THAT ARE REMOVED SHALL BE REMOVED AS DIRECTED BY THE OWNER, AND CEILING OR WALL SHALL BE PATCHED OR PAINTED AS DIRECTED BY ARCHITECT.
5. ALL EXISTING ELECTRICAL EQUIPMENT IS NOT SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO BID, AND INCLUDE IN HIS BID THE REMOVAL OF ALL EQUIPMENT, CONDUIT, WIRE, ETC. THAT IS NOT BEING REUSED BACK TO ITS SOURCE.
6. ALL CONCRETE, WALL PATCHING, CEILING REPAIR, AND OTHER GENERAL WORK REQUIRED FOR INSTALLING THE ELECTRICAL SYSTEMS AND TO REPAIR TO "LIKE NEW CONDITION" TO BE PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR. (COORDINATE WITH GENERAL CONTRACTOR).
7. PROVIDE AND INSTALL ANY ADDITIONAL HANGERS/SUPPORTS REQUIRED TO ACCOMMODATE ANY EQUIPMENT RELOCATION.
8. COORDINATE ALL CEILING MOUNTED DEVICES WITH ARCHITECTURAL REFLECTED CEILING AND WORK OF ALL OTHER TRADES.
9. REUSE EXISTING RACEWAY AND OUTLETS WITHIN EXISTING WALL PARTITIONS WHERE POSSIBLE. WHERE EXISTING RACEWAY CANNOT BE REUSED, CONTRACTOR TO PROVIDE NEW RACEWAYS EQUIVALENT TO THE DESIGN INTENT. FINAL APPROVAL TO BE MADE BY THE ARCHITECT, ENGINEER, OR OWNERS REPRESENTATIVE PRIOR TO INSTALLATION.

GENERAL NOTES

1. ALL ELECTRICAL WORK SHALL CONFORM TO APPLICABLE STATE, LOCAL, AND NATIONAL ELECTRICAL CODES.
2. ELECTRICAL CHARACTERISTICS SHALL BE VERIFIED WITH EQUIPMENT MANUFACTURER.
3. ITEMS OF SPECIFIC MANUFACTURERS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS PRINTED INSTRUCTIONS AND/OR MANUFACTURERS REPRESENTATIVE'S DIRECTIONS.
4. THE CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS AND DIMENSIONS SHOWN ON DRAWINGS.
5. ALL AREAS DISTURBED BY WORK SHALL BE RESTORED TO A CONDITION EQUAL TO ORIGINAL OR AS DETERMINED BY THE OWNER.
6. NEW FLUORESCENT LAMPS SHALL MATCH EXISTING IN COLOR AND TYPE.
7. EXIT SIGNS TO BE WIRED TO NEAREST EMERGENCY LIGHTING CIRCUIT, WITH AN UNSWITCHED PHASE CONDUCTOR.
8. EMERGENCY LIGHTING TO BE WIRED TO SEPARATE SWITCH LEG WITH WATTSTOPPER RELAY TO SENSE POWER LOSS.
9. COORDINATE WITH OWNER FOR METERS OF CIRCUITS TO TENANT SPACE.
10. THE ELECTRICAL CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL EQUIPMENT WITH OTHER CONTRACTORS.
11. THE CONTRACTOR SHALL PROVIDE RACEWAYS, WIRING, AND CONNECTIONS FOR ALL CONTROL CIRCUITS AND INTERLOCK.
12. ALL ELECTRICAL CONDUIT AND CONDUCTORS DISCONNECTED AND NOT TO BE REUSED SHALL BE REMOVED.
13. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS BEFORE STARTING WORK. IF ONLY A PORTION OF AN EXISTING CIRCUIT IS BEING REMOVED FOR DEMOLITION, CONTINUITY SHALL BE MAINTAINED TO THE REST OF THE REMAINING CIRCUIT.
14. ALL BRANCH CIRCUITS SHALL CONSIST OF 2 #12 AWG CONDUCTORS PLUS 1 #12 AWG GROUND, UNLESS OTHERWISE SHOWN.
15. ALL RACEWAYS SHALL BE RUN IN NEAT AND WORKMANLIKE MANNER AND SHALL BE PROPERLY SUPPORTED.
16. ALL RACEWAY RUNS, PRIOR TO TERMINATION AT BRANCH PANEL, SHALL BE CAPPED DURING THE COURSE OF CONSTRUCTION BUT NOT UNTIL WIRES ARE PULLED IN AND COVERS ARE IN PLACE. NO CONDUCTORS SHALL BE PULLED INTO RACEWAYS UNTIL CONSTRUCTION WORK, WHICH MIGHT DAMAGE THE RACEWAYS, HAS BEEN COMPLETED.
17. CONTRACTOR TO PROVIDE NYLON PULL CORD IN ALL EMPTY RACEWAYS.
18. ALL CUTTING AND PATCHING AS A RESULT OF NEW CONSTRUCTION OR DEMOLITION SHALL BE PERFORMED IN A WORKMANLIKE MANNER, AND SHALL MATCH IN COLOR, SHAPE, SIZE AND TEXTURE ADJACENT TO AND/OR CONTIGUOUS WITH FINISHED SURFACES.
19. THE ELECTRICAL DRAWINGS ARE SCHEMATIC ONLY. COORDINATE EXACT LOCATIONS AND DETAILS OF ELECTRICAL EQUIPMENT, CONDUITS, ETC. WITH THE OWNER.
20. CONSTRUCTION DOCUMENTS REPRESENT THE CONSULTANTS DESIGN INTENT. IT IS NOT THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO IDENTIFY EACH AND EVERY DETAIL OF THE ELECTRICAL CONSTRUCTION. PROVIDE ALL NECESSARY EQUIPMENT AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL ELECTRICAL SYSTEM.
21. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, LOCATIONS, AND DIMENSIONS SHOWN ON DRAWINGS AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE START OF WORK.
22. THE ENGINEER HAS MADE EVERY EFFORT TO PROPERLY ADDRESS ALL RELATED TRADES AND IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL CONTRACTOR AS PART OF THEIR BASE BID TO THOROUGHLY REVIEW ALL DESIGN DOCUMENTS BEFORE WORK IS TO BEGIN. IN CASE OF A CONFLICT, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY TO COORDINATE ANY DISCREPANCY.
23. ALL ELEVATIONS NOTED ON THE CONTRACT DRAWING ARE RELATIVE TO THE FINISHED FLOOR UNLESS NOTED OTHERWISE.
24. CONTRACTOR SHALL REPAIR AND REFINISH ALL CONTRACTOR RELATED DAMAGES AND RELATED AREAS AFFECTED BY RENOVATION WORK BACK TO THEIR ORIGINAL CONDITION AS NEW AND IN AN ACCEPTABLE MANNER TO OWNER/ ARCHITECT, WITH NO ADDITIONAL COST TO OWNER.
25. IF ASBESTOS IS ENCOUNTERED DURING CONTRACTED WORK, STOP WORK IN THAT AREA AND IMMEDIATELY CONTACT THE OWNER.
26. ALL PROJECT SUBMITTALS SHALL BE SUBMITTED AND RETURNED MARKED REVIEWED OR REVIEWED AS NOTED PRIOR TO ORDERING/ INSTALLATION OF ANY PRODUCT / SERVICE.
27. CONTRACTOR SHALL ASSUME THAT ALL ELECTRICAL EQUIPMENT, RACEWAYS, CONDUITORS, ETC. SHOWN ON THE DRAWINGS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS SPECIFICALLY NOTED AS EXISTING.
28. CONTRACTOR SHALL REVIEW AND COORDINATE THE ELECTRICAL CONSTRUCTION WITH OTHER TRADES, EQUIPMENT SUPPLIERS AND THE OWNER.
29. ALL WIRE SHALL BE STRANDED COPPER CONDUCTORS, 600V RATED, TYPE THINWALL, UNLESS OTHERWISE NOTED. ALL INTERIOR CONDUITS SHALL BE ELECTRICAL METALLIC TUBING (EMT), RIGID METAL CONDUIT (RMC) OR FLEXIBLE METAL CONDUIT (FMC), UNLESS OTHERWISE NOTED.
30. CONTRACTOR SHALL PERMANENTLY IDENTIFY ALL WIRING WITH THE SOURCE AND CIRCUIT AT ALL ELECTRICAL EQUIPMENT, PULL AND JUNCTION BOXES AND ELECTRICAL TERMINATIONS PROVIDED OR ASSOCIATED WITH THIS CONSTRUCTION.
31. WHERE CONDUITS PENETRATE FIRE RATED WALLS OR FLOORS, FURNISH AND INSTALL FIRE STOPPING THAT IS AN UNDERWRITERS LABORATORIES LISTED SYSTEM OR A DESIGN AND INSTALLATION THAT CONFORMS TO THE FLORIDA BUILDING CODE.
32. CONTRACTOR SHALL PATCH AND REPAIR ALL DAMAGED SURFACES AND AREAS WHERE EQUIPMENT WAS REMOVED OR MODIFIED, TO MATCH EXISTING CONDITIONS.
33. ALL NEW CONDUITS TO BE CONCEALED IN WALL WHERE POSSIBLE. ALL CONDUITS IN CEILING TO BE PAINTED TO MATCH SURROUNDING MATERIAL.
34. ALL BRANCH CIRCUIT SHALL BE CONCEALED UNLESS OTHERWISE NOTED.
35. REFER TO ARCHITECTURAL RCP FOR REFERENCE AS TO WHICH FIXTURES ARE NEW, EXISTING, OR TO BE RELOCATED.
36. REFER TO E-601 SHEET FOR SECTION VIEWS OF STACKED RECEPTACLE LOCATIONS.

EXISTING CONDITIONS GENERAL NOTES

1. VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
2. UTILITIES AND SERVICES INDICATED ARE TAKEN FROM FIELD INVESTIGATION. IT IS TO BE UNDERSTOOD THAT UNFORESEEN CONDITIONS EXIST AND NEW WORK MAY NOT BE FIELD LOCATED EXACTLY AS SHOWN ON THE DRAWINGS. COOPERATION WITH OTHER TRADES IN ROUTING AND/OR BURIAL DEPTHS, AS DETERMINED DURING CONSTRUCTION AND AS DIRECTED BY THE ARCHITECT/ENGINEER, MAY BE NECESSARY. IT IS ALSO UNDERSTOOD THAT THE PLANS ARE NOT COMPLETELY TO SCALE. THIS CONTRACTOR IS TO FIELD VERIFY DIMENSION OF ALL SITE UTILITIES, ETC. PRIOR TO BID.
3. ELECTRICAL CONTRACTOR SHALL TRACE LIGHTING AND POWER BRANCH CIRCUITS TO IDENTIFY CIRCUITS SERVING AREA WITHIN SCOPE OF WORK. PROVIDE UPDATED TYPEWRITTEN PANEL SCHEDULES AT COMPLETION OF WORK.
4. REMOVE EXISTING POWER, LIGHTING, SYSTEMS, MATERIAL, AND EQUIPMENT WHICH ARE MADE OBSOLETE OR WHICH INTERFERE WITH THE CONSTRUCTION OF THE PROJECT.
5. REINSTALL ANY SUCH POWER, LIGHTING, SYSTEMS, MATERIALS AND EQUIPMENT WHICH ARE REQUIRED TO REMAIN ACTIVE FOR THE FACILITY TO BE FULLY FUNCTIONAL.
6. EXISTING OUTLET BOXES AND CONDUIT WHICH ARE LOCATED PROPERLY FOR NEW WORK MAY BE REUSED FOR NEW DEVICES AND WIRE.
7. ALL CONDUIT AND WIRE REMOVED SHALL BE TAKEN BACK TO THE SOURCE OF SUPPLY UNLESS OTHERWISE NOTED.
8. INSTALL A BLANK COVER PLATE WHERE REQUIRED.
9. ALL UNUSED RACEWAYS WITHIN ACCESSIBLE SPACES SHALL BE COMPLETELY REMOVED. REMOVE ALSO ASSOCIATED CONDUCTORS, JUNCTION BOXES, FASTENERS AND SUPPORTS.

ELECTRICAL SPECIFICATIONS - DIVISION 26

SECTION 26000 - GENERAL PROVISIONS

- A. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM. INCLUDE NECESSARY FEES AND PERMITS WITHIN BASE BID.
- B. CODES AND STANDARDS: ALL ELECTRICAL WORK SHALL BE IN STRICT COMPLIANCE WITH THE PROVISIONS OF THE LOCAL GOVERNMENT AUTHORITY AND THE NATIONAL ELECTRIC CODE, 2011 EDITION. ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS, AND SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL, OR BE LABELED OR LISTED WITH AN APPROVED NATIONALLY RECOGNIZED ELECTRICAL TESTING AGENCY.
- C. CONTRACTOR SHALL THOROUGHLY INVESTIGATE SITE BEFORE BIDDING. NO CHANGES WILL BE ALLOWED IN CONTRACT PRICE FOR WORK REQUIRED TO COMPLY WITH EXISTING CONDITIONS.
- D. ALL ELECTRICAL WORK SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.
- E. CONTRACTOR SHALL SCHEDULE ALL DOWN-TIME WITH THE OWNER PRIOR TO BEGINNING THE WORK. PREMIUM/OVERTIME RATES MAY BE REQUIRED AND MUST BE INCLUDED IN BASE BID.
- F. CONTRACTOR SHALL THOROUGHLY REVIEW CONSTRUCTION DOCUMENTS WHEN CONFLICTS ARISE WITHIN CONSTRUCTION DOCUMENTS. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO SUBMITTING A BID. SUBMISSION OF A BID SHALL INDICATE THAT CONTRACTOR THOROUGHLY REVIEWED CONSTRUCTION DOCUMENTS. WHEN ENGINEER IS NOT AVAILABLE, OR TIME DOES NOT PERMIT, CONTRACTOR SHALL INCLUDE THE MOST STRINGENT (COSTLY) REQUIREMENTS WITHIN BASE BID.
- G. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING MANUFACTURERS, SUB-CONTRACTORS, VENDORS, AND SUPPLIERS WITH A COPY OF THESE SPECIFICATIONS.
- H. GUARANTEE ALL ELECTRICAL SYSTEM MATERIALS AND WORKMANSHIP TO BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE AND PROPERLY CORRECT LATENT DEFECTS ARISING WITHIN THIS PERIOD UPON NOTIFICATION BY THE OWNER'S REPRESENTATIVE WITHOUT ADDITIONAL COMPENSATION.
- I. DAILY REMOVE REFUSE AND DEBRIS ACCUMULATING FROM ELECTRICAL CONSTRUCTION AND PRIOR TO ACCEPTANCE OF THIS WORK, LEAVE THE PREMISES "BROOM CLEAN" INsofar AS AFFECTED BY ELECTRICAL WORK.
- J. EQUIPMENT AND DESIGN OF SYSTEMS INDICATED ON THE DESIGN DRAWINGS AND WITHIN THESE SPECIFICATIONS SHALL BE CONSIDERED AS SPECIFIED STANDARD OF QUALITY. NO SUBSTITUTIONS SHALL BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AT LEAST 10 DAYS PRIOR TO BID DATE.
- K. ANY DEVIATION FROM SPECIFIED EQUIPMENT THAT AFFECT THE INSTALLATION, OPERATION, PERFORMANCE, QUALITY OR LONGEVITY OF THE ELECTRICAL SYSTEMS AS DEFINED HEREIN, SHALL BE REPLACED BY THE ELECTRICAL CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER. IN ADDITION, ELECTRICAL CONTRACTOR SHALL PROVIDE THE ENGINEER WITH FLOOR PLANS SHOWING PHOTOMETRIC CALCULATIONS FOR ANY ELECTRICAL CONTRACTOR FURNISHED LIGHTING FIXTURE CHANGES FOR APPROVAL AT LEAST 10 DAYS PRIOR TO BID DATE.

SECTION 26050 - BASIC MATERIALS AND METHODS

- A. RACEWAYS AND FITTINGS: ALL RACEWAYS AND FITTINGS SHALL BE GALVANIZED RIGID STEEL OR INTERMEDIATE METAL CONDUIT WITH LOCKNUTS AND BUSHINGS, WITH THE EXCEPTION THAT WHERE SPECIFICALLY ALLOWED BY THE NATIONAL ELECTRICAL CODE AND APPLICABLE LOCAL CODES, ELECTRICAL METALLIC TUBING (E.M.T.) MAY BE USED FOR ALL INTERIOR EXPOSED AND CONCEALED WORK WHERE IT IS NOT SUBJECT TO PHYSICAL DAMAGE OR CORROSION. FITTINGS SHALL BE STEEL COMPRESSION TYPE. INSTALL EXPANSION FITTINGS IN RACEWAYS A MAXIMUM OF 200 FEET APART OR WHEREVER STRUCTURAL EXPANSION JOINTS ARE CROSSED.
- B. CONDUCTORS: FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE THIN COPPER, MINIMUM SIZE #12 UNLESS OTHERWISE NOTED. NO ALUMINUM SHALL BE PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE. INSTALL ALL WIRING IN CONDUIT OR APPROVED RACEWAYS UNLESS OTHERWISE INDICATED. PROVIDE RUNING FOR BRANCH CIRCUITS OVER 100 FEET IN LENGTH TO ACCOUNT FOR VOLTAGE DROP. PROVIDE #10 AWG GROUND TO CORRESPOND. ALL BRANCH CIRCUITS SHALL CARRY EQUIPMENT CONDUCTOR, AND BE WIRED WITH COLOR-CODED WIRE WITH THE SAME COLOR USED FOR A PHASE THROUGHOUT. COLOR-CODE SHALL BE AS FOLLOWS:
120/208 VOLT, PHASE A - BLACK, PHASE B - RED, PHASE C - BLUE;
NEUTRAL - WHITE, GROUND - GREEN.
- C. FINAL CONNECTIONS TO MOTORS OR EQUIPMENT SUBJECT TO VIBRATION SHALL BE MADE UP WITH GREAT CARE IN DRY LOCATIONS AND WITH JACKETED, LIQUID-TIGHT, FLEXIBLE, GALVANIZED STEEL CONDUIT IN WET OR DAMP LOCATIONS. LOCATE ALL DEVICES AND EQUIPMENT WIRE SHOWN ON DRAWINGS. ALL DIMENSIONS SHOWN ON THE DRAWINGS ARE FROM FINISHED FLOOR TO THE CENTER OF THE DEVICE UNLESS OTHERWISE INDICATED. STANDARD MOUNTING HEIGHTS ARE AS FOLLOWS:

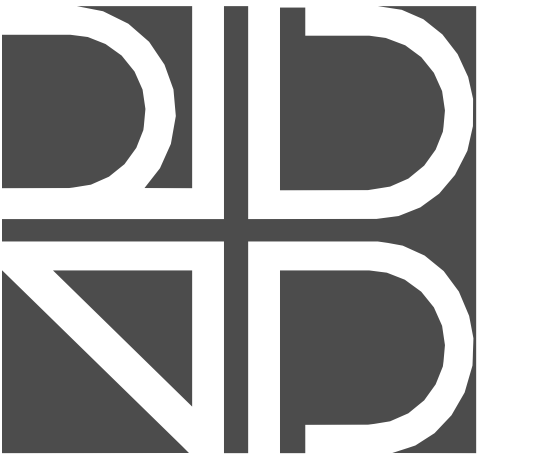
DEVICES	HEIGHT AFF AT DEVICE CENTER
1. ELECTRICAL OUTLETS	18"
2. ELECTRICAL OUTLETS ABOVE COUNTER	42"
3. COMMUNICATION OUTLETS	18"
4. LIGHT SWITCHES	42"
5. THERMOSTATS	SEE MECHANICAL SPECIFICATIONS

- D. MATERIALS SHALL BE NEW AND UNUSED AND THE CATALOGUED PRODUCTS OF MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH MATERIALS. THE MATERIALS SHALL BE OF THE MANUFACTURERS LATEST STANDARD DESIGN THAT COMPLIES WITH THE SPECIFICATION REQUIREMENTS.
- E. LIGHTING FIXTURES SHALL BE AS SHOWN ON THE DRAWING AND SHALL BE FURNISHED WITH LAMPS INSTALLED.
- F. ALL GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NEC, THE DRAWINGS, AND THE LOCAL CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION.
- G. FIREPROOF ALL OPENINGS IN FIRE RATED WALLS BY AN UL APPROVED SYSTEM.
- H. PROVIDE FOR REVIEW AND APPROVAL FIVE (5) COPIES OF CUT SHEETS AND SCHEDULES FOR ALL ELECTRICAL EQUIPMENT FURNISHED BY THE ELECTRICAL CONTRACTOR IN A SINGE BINDER WITH A FRONT PAGE FOR EACH CATEGORY WITH SPACE FOR ENGINEER'S STAMP AND COMMENTS. LOOSE CUTSHEETS WILL BE REJECTED.
- I. CONDUIT PENETRATIONS THROUGH FIRE RATED PARTITIONS SHALL BE SEALED USING APPROVED FIRE STOPPING COMPOUND. REFER TO ARCHITECTURAL FLOOR PLAN FOR LOCATION OF FIRE RATED PARTITIONS.

- J. ELECTRICAL CONTRACTOR MAY COMBINE CIRCUITS IN A COMMON RACEWAY AS LONG AS CONDUCTORS ARE DERATED AS PER NEC TABLE 310-15. SHARED NEUTRAL SHALL NOT BE ALLOWED.
- K. ELECTRICAL CONTRACTOR SHALL INCLUDE CUTTING AND PATCHING FOR THE INSTALLATION OF HISHER WORK WITHIN BASE BID.
- L. CLEAN ALL LIGHT FIXTURES, LAMPS AND LENSES AND PANELEBOARD INTERIORS PRIOR TO FINAL ACCEPTANCE.
- M. PROVIDE DISK FILE ON CAD 2000 RELEASE WITH "AS BUILT" ELECTRICAL DRAWINGS AT THE COMPLETION OF THE PROJECT.
- N. CONTRACTOR REPRESENTS THAT HIS BID IS BASED UPON THE MANUFACTURERS MATERIALS AND EQUIPMENT DESCRIBED IN THE CONTRACT DOCUMENTS.

BID ALTERNATE:

1. PROVIDE COST ADD TO PERFORM ARC FLASH CALCULATION OF NEW PANELS.



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Seal 09/20/16

XIANG CAO
74060

BID DOCUMENTS

DATE	SUBMISSION / REVISION	NO.
03/13/2018	Permit Review Responses Revision 1	1

LEGEND,
ABBREVIATIONS, AND
GENERAL NOTES

SCALE: AS INDICATED

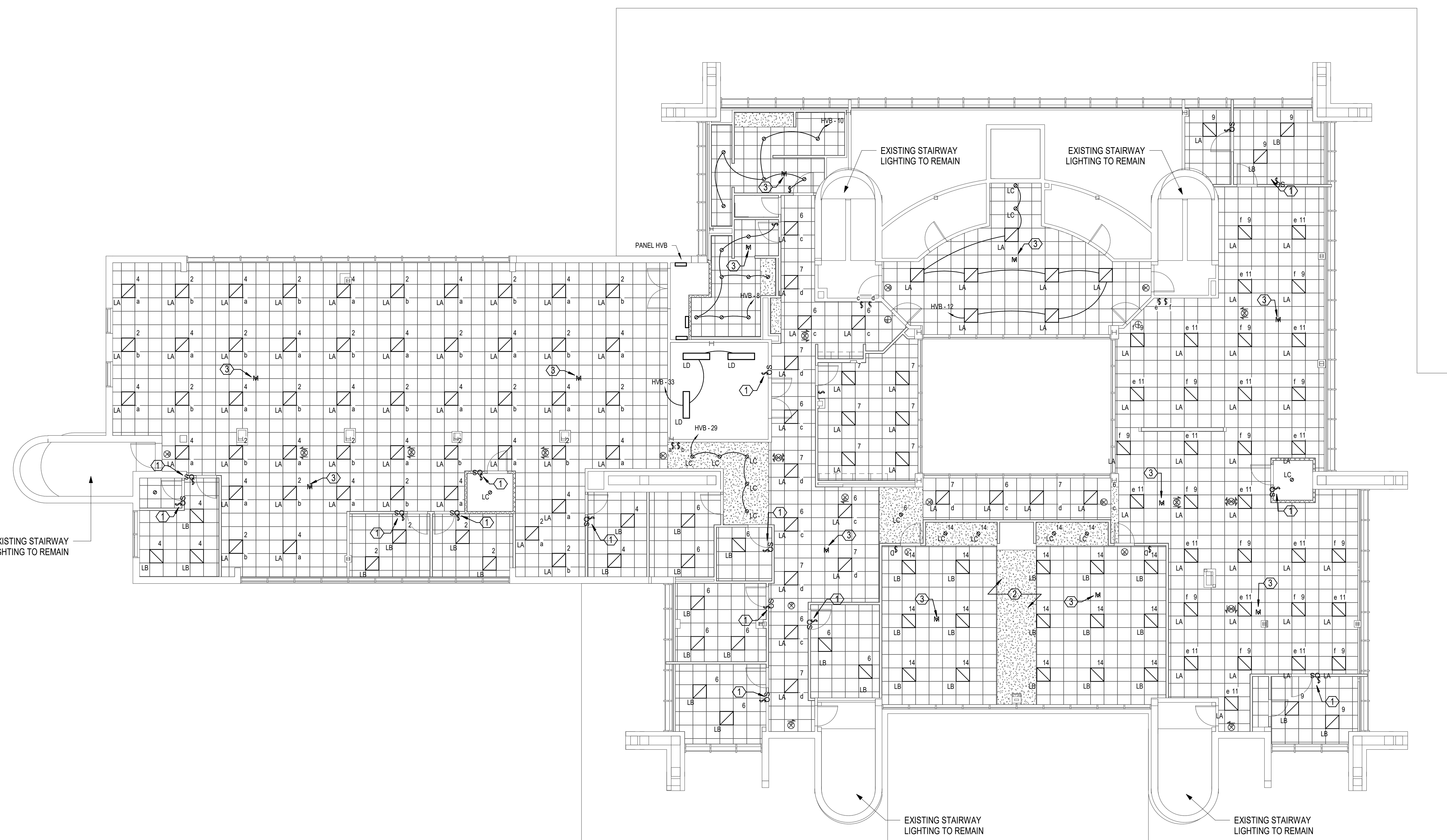
DRAWN BY: M. LARUE

CHECK BY: T. COMER

DATE: 05/30/2018

PROJECT NUMBER: 15012-0011

E-100

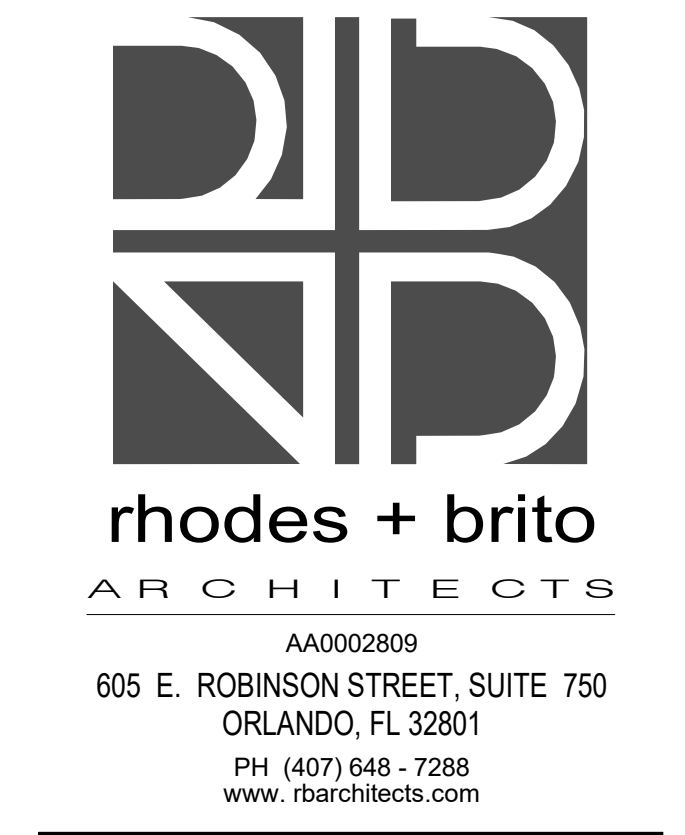


- REFERENCED NOTES**
- ① PROVIDE NEW 0-10V DIMMER OCCUPANCY SWITCH FOR NEW LIGHTING SWITCH LEGS. DESIGN SPEC TO BE LUTRON 2101, OR APPROVED EQUAL.
 - ② PROVIDE LIGHTING CONTROL PANEL FOR OVERALL CONFERENCE ROOM DIMMING CONTROL.
 - ③ PROVIDE NEW CEILING MOUNTED OCCUPANCY SENSORS. DESIGN SPEC TO BE LEVITON OCC19, MDW, OR APPROVED EQUAL.

1
E-201
SECOND FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

Lighting Fixture Schedule					
Type Mark	Manufacturer	Model	Count	Volts	Description
LA	Cree Inc.	CR22-32L-35K-EB14	112	277	2X2 LED INDIRECT TROFFER WITH FIXED OUTPUT
LB	Cree Inc.	CR22-32L-35K-S-EB14	38	277	2X2 LED INDIRECT TROFFER WITH STEP DIMMING
LC	Lithonia Lighting	LDN4-30/30-L04AR-LSS-277-EZ10	29	277	4" DOWNLIGHT
LD	Lithonia Lighting	SBL4-3000LM-80CRI-35K-NODIM-MVOLT	3	277	1X4 LED WRAPAROUND

NOTE: ALL FIXTURE MODELS SHOWN ARE BASIS OF DESIGN ONLY. CONTRACTOR TO COORDINATE FIXTURE SPECIFICATION OR APPROVED EQUALS WITH OWNER.



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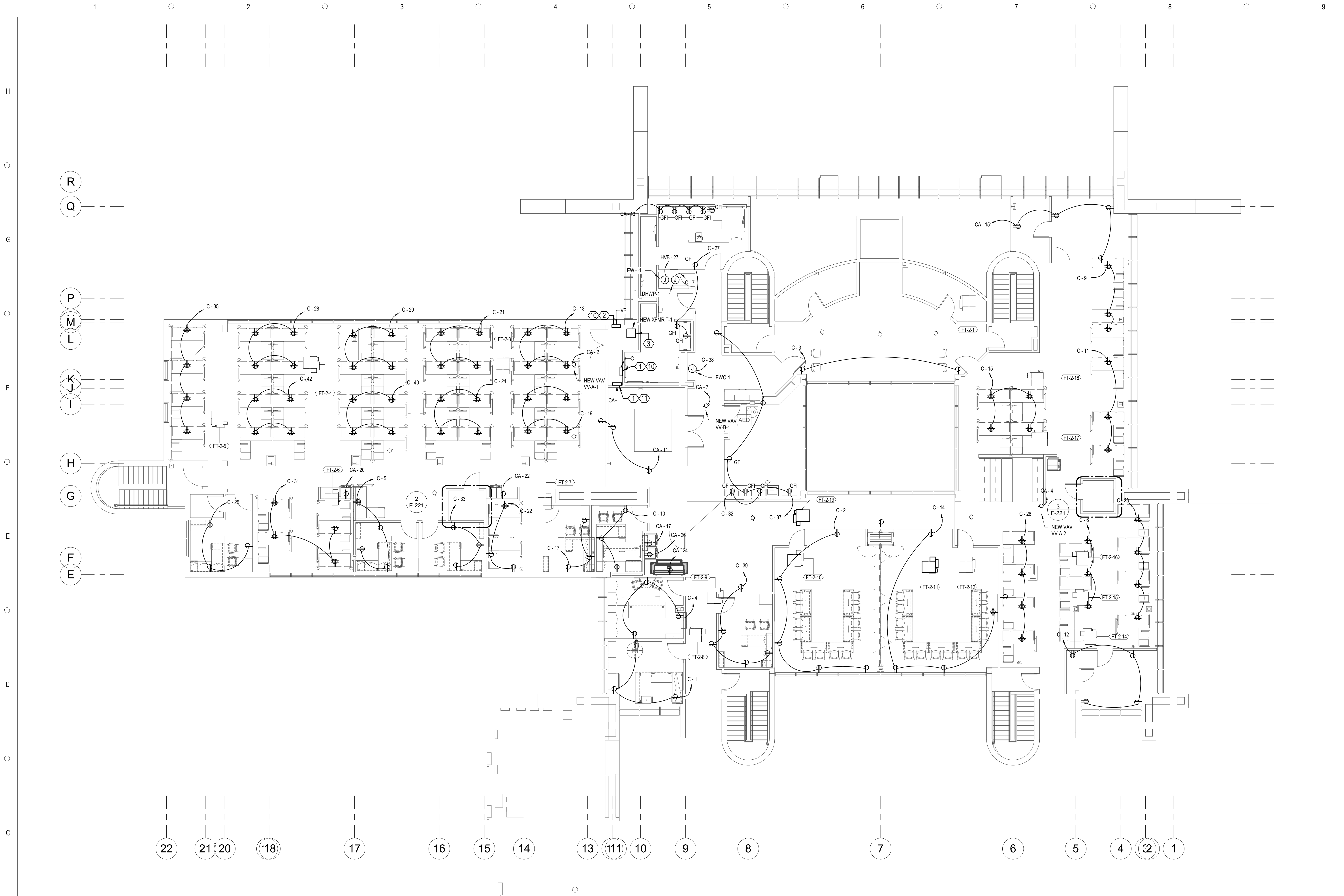
BID DOCUMENTS

DATE	SUBMISSION / REVISION	NO.

SECOND FLOOR
LIGHTING PLAN

SCALE: AS INDICATED
DRAWN BY: M. LARUE
CHECK BY: T. COMER
DATE: 05/30/2018
PROJECT NUMBER: 15012-0011

E-201

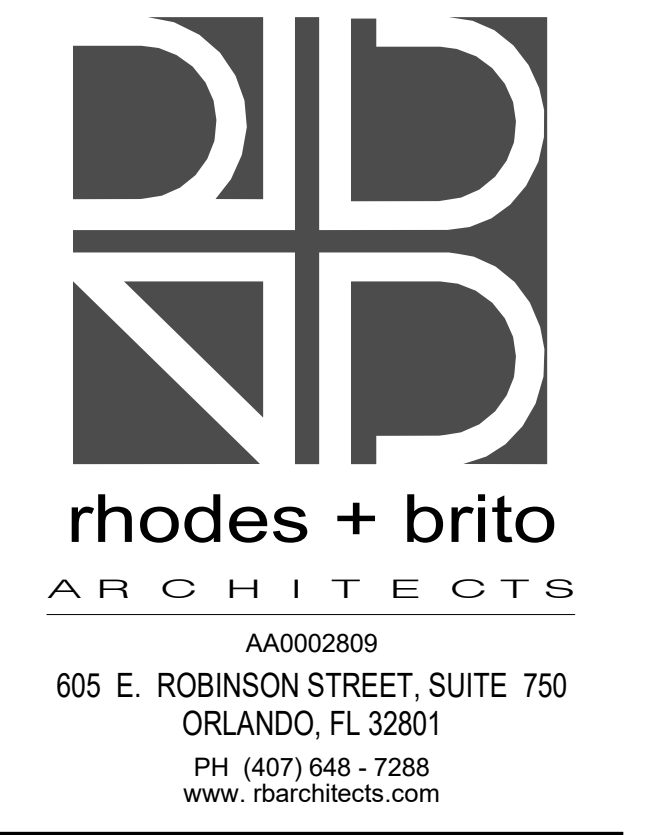


GENERAL NOTES

1. U.O.M. ALL MECHANICAL EQUIPMENT IS EXISTING TO REMAIN. REFER TO PANEL SCHEDULES FOR EXISTING EQUIPMENT CIRCUITING. REFER TO SHEET M-601 FOR NEW EQUIPMENT SPECIFICATIONS.
2. ALL NEW ELECTRICAL EQUIPMENT SHALL INCLUDE AN ARC FLASH HAZARD SIGN PER NEC 110.16.
3. ALL OFFICE AND CUBICLE STATION RECEPTACLE CIRCUITS SHALL EACH BE CONTROLLED BY DEDICATED LOCAL CEILING MOUNTED OCCUPANCY SENSOR. PROVIDE NEW HALF-CONTROLLED PLUG LOAD RECEPTACLES TO MEET STANDARDS FOR ASHRAE ENERGY CONSERVATION. RECEPTACLE DESIGN SPEC TO BE HUBBELL B15C1WHI WITH CUS00D CONTROL UNIT. REFER TO MANUFACTURER WIRING DIAGRAM TO TIE-IN TO OCCUPANCY SENSOR FOR QUAD RECEPTACLES SHOWN. SUPPLY (2) OF SPECIFIED RECEPTACLE.

REFERENCED NOTES

1. PROVIDE NEW 100A PER PHASE SURGE PROTECTOR FOR NEW 12000V PANEL. DESIGN SPEC TO BE LEA SP100, OR APPROVED EQUAL.
2. PROVIDE NEW 200A PER PHASE SURGE PROTECTOR FOR NEW 277480V PANEL. DESIGN SPEC TO BE LEA SP200, OR APPROVED EQUAL.
3. PROVIDE NEW 75 KVA TRANSFORMER 480V PRIMARY, 208/120V SECONDARY. DESIGN SPEC TO BE SQUARE D EET3TH OR APPROVED EQUAL.
4. COORDINATE DIMENSIONS OF NEW DISTRIBUTION PANEL TO ALLOW FOR OVERNIGHT CROSSOVER OF EXISTING CIRCUITS TO NEW DISTRIBUTION PANEL IN ORDER TO AVOID DOWNTIME FOR THE EXISTING BUILDING.
5. PROVIDE WIREWAY IN EXISTING ELECTRICAL ROOM TO INTERCEPT EXISTING FEEDER CIRCUITS AND RE-ROUTE TO NEW DISTRIBUTION PANEL.
6. EXISTING SWITCHGEAR TO BE REPLACED. CONTRACTOR TO COORDINATE NEW SWITCH GEAR DIMENSIONS OF INTERIOR CONDUIT STUBUPS WITH NEW SWITCH GEAR TO ALLOW OVERNIGHT REPLACEMENT AND CONNECTION OF NEW GEAR.
7. PROVIDE NEW 800A AUTOMATIC TRANSFER SWITCH TO REPLACE EXISTING AUTOMATIC TRANSFER SWITCH. EXISTING CONDUIT TO BE REUSED WHERE POSSIBLE FROM EXISTING GENERATOR SITE INTO ELECTRICAL ROOM.
8. PROVIDE NEW 500KVA GENERATOR TO MATCH INCOMING ELECTRICAL SERVICE TO THE STRUCTURE. EXISTING CONDUIT AND MANUAL TRANSFER SWITCH TO ELECTRICAL ROOM TO BE REUSED WHERE POSSIBLE.
9. PROVIDE NEW 54 SPACE, 800A RATED POWER DISTRIBUTION PANELBOARD WITH 800A MAIN CIRCUIT BREAKER AND COPPER BUSSING IN A NEMA 3R ENCLOSURE FOR PANEL. NOD* REPLACEMENT.
10. PROVIDE NEW 42 SPACE, 225A RATED LIGHTING AND APPLIANCE PANELBOARD WITH 225A MAIN CIRCUIT BREAKER AND COPPER BUSSING IN NEMA 1 ENCLOSURE WITH HINGED FRONT.
11. PROVIDE NEW 42 SPACE, 225A RATED LIGHTING AND APPLIANCE PANELBOARD WITH MAIN LUGS ONLY AND COPPER BUSSING IN NEMA 1 ENCLOSURE WITH HINGED FRONT.
12. COORDINATE EXACT POWER REQUIREMENTS WITH EQUIPMENT RACK.



Orange County Government

Orange County
Government Capital
Project Division

Orange County Code
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BID DOCUMENTS

DATE	SUBMISSION / REVISION	NO.
03/13/2018	Permit Review Responses Revision 1	1

SECOND FLOOR
POWER PLAN - NEW
WORK

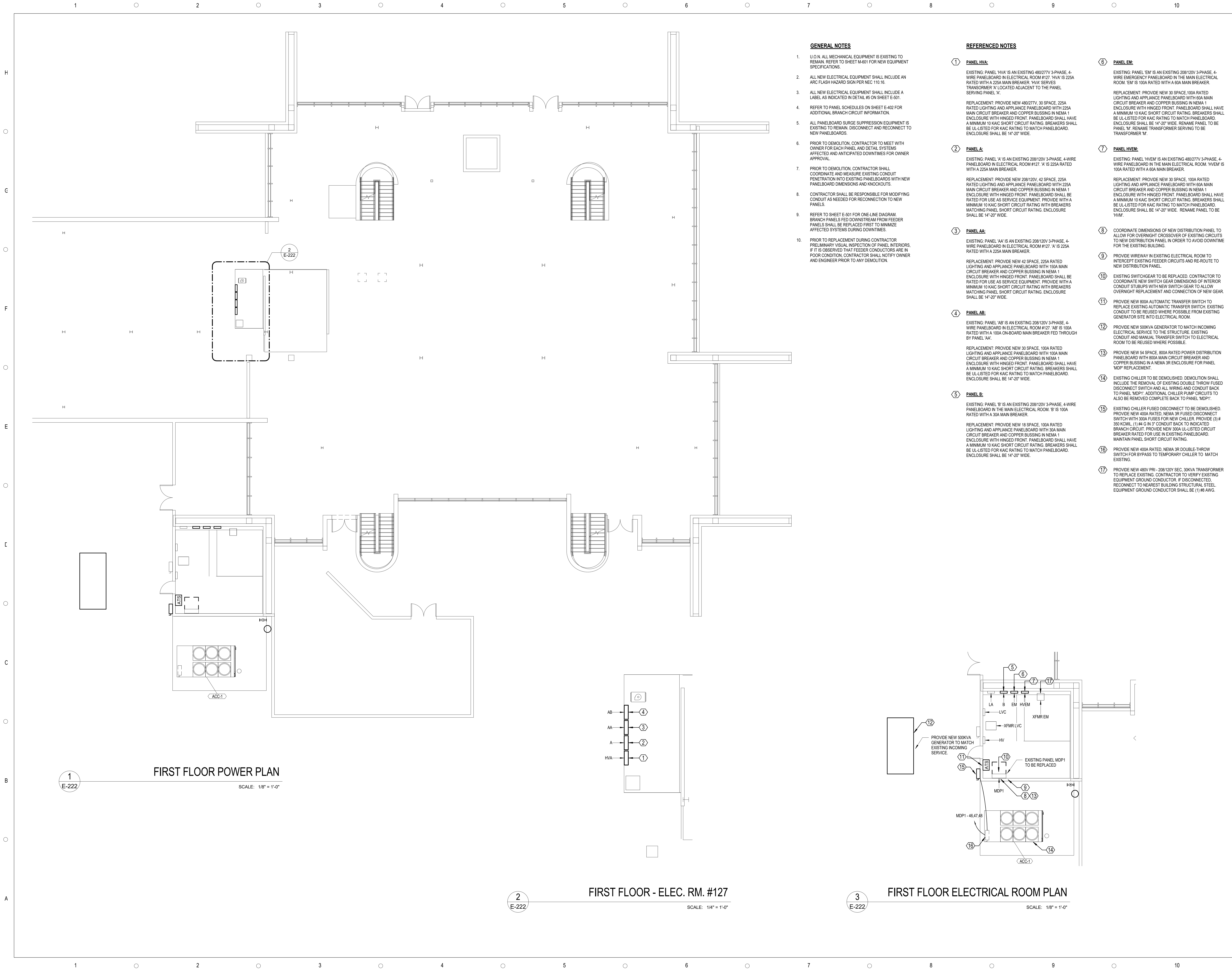
SCALE: AS INDICATED
DRAWN BY: M. LARUE
CHECK BY: T. COMER
DATE: 05/30/2018
PROJECT NUMBER: 15012-0011

E-221

1 SECOND FLOOR POWER - NEW WORK
E-221 SCALE: 1/8" = 1'-0"

2 IDF RM 254 POWER - NEW WORK
E-221 SCALE: 1/2" = 1'-0"

3 IDF RM 241 POWER - NEW WORK
E-221 SCALE: 1/2" = 1'-0"



GENERAL NOTES

- U.O.N. ALL MECHANICAL EQUIPMENT IS EXISTING TO REMAIN. REFER TO SHEET M-601 FOR NEW EQUIPMENT SPECIFICATIONS.
- ALL NEW ELECTRICAL EQUIPMENT SHALL INCLUDE AN ARC FLASH HAZARD SIGN PER NEC 110.16.
- ALL NEW ELECTRICAL EQUIPMENT SHALL INCLUDE A LABEL AS INDICATED IN DETAIL #5 ON SHEET E-501.
- REFER TO PANEL SCHEDULES ON SHEET E-402 FOR ADDITIONAL BRANCH CIRCUIT INFORMATION.
- ALL PANELBOARD SURGE SUPPRESSION EQUIPMENT IS EXISTING TO REMAIN. DISCONNECT AND RECONNECT TO NEW PANELBOARDS.
- PRIOR TO DEMOLITION, CONTRACTOR TO MEET WITH OWNER FOR EACH PANEL AND DETAIL SYSTEMS AFFECTED AND ANTICIPATED DOWNTIMES FOR OWNER APPROVAL.
- PRIOR TO DEMOLITION, CONTRACTOR SHALL COORDINATE AND MEASURE EXISTING CONDUIT PENETRATION INTO EXISTING PANELBOARDS WITH NEW PANELBOARD DIMENSIONS AND KNOCKOUTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING CONDUIT AS NEEDED FOR RECONNECTION TO NEW PANELS.
- REFER TO SHEET E-501 FOR ONE-LINE DIAGRAM. BRANCH PANELS FED DOWNSTREAM FROM FEEDER PANELS SHALL BE REPLACED FIRST TO MINIMIZE AFFECTED SYSTEMS DURING DOWNTIMES.
- PRIOR TO REPLACEMENT DURING CONTRACTOR PRELIMINARY VISUAL INSPECTION OF PANEL INTERIORS, IF IT IS OBSERVED THAT FEEDER CONDUCTORS ARE IN POOR CONDITION, CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO ANY DEMOLITION.

REFERENCED NOTES

- PANEL HVA:**
EXISTING: PANEL HVA IS AN EXISTING 480/277V 3-PHASE, 4-WIRE PANELBOARD IN ELECTRICAL ROOM #127. HVA IS 225A RATED WITH A 225A MAIN BREAKER. HVA SERVES TRANSFORMER 'A' LOCATED ADJACENT TO THE PANEL SERVING PANEL 'A'.
REPLACEMENT: PROVIDE NEW 480/277V, 30 SPACE, 225A RATED LIGHTING AND APPLIANCE PANELBOARD WITH 225A MAIN CIRCUIT BREAKER AND COPPER BUSSING IN NEMA 1 ENCLOSURE WITH HINGED FRONT. PANELBOARD SHALL HAVE A MINIMUM 10 KAIC SHORT CIRCUIT RATING. BREAKERS SHALL BE UL-LISTED FOR KAIC RATING TO MATCH PANELBOARD. ENCLOSURE SHALL BE 14" 20" WIDE.
- PANEL A:**
EXISTING: PANEL 'A' IS AN EXISTING 208/120V 3-PHASE, 4-WIRE PANELBOARD IN ELECTRICAL ROOM #127. 'A' IS 225A RATED WITH A 225A MAIN BREAKER.
REPLACEMENT: PROVIDE NEW 208/120V, 42 SPACE, 225A RATED LIGHTING AND APPLIANCE PANELBOARD WITH 225A MAIN CIRCUIT BREAKER AND COPPER BUSSING IN NEMA 1 ENCLOSURE WITH HINGED FRONT. PANELBOARD SHALL BE RATED FOR USE AS SERVICE EQUIPMENT. PROVIDE WITH A MINIMUM 10 KAIC SHORT CIRCUIT RATING. BREAKERS SHALL BE UL-LISTED FOR KAIC RATING TO MATCH PANELBOARD. ENCLOSURE SHALL BE 14" 20" WIDE.
- PANEL AA:**
EXISTING: PANEL 'AA' IS AN EXISTING 208/120V 3-PHASE, 4-WIRE PANELBOARD IN ELECTRICAL ROOM #127. 'AA' IS 225A RATED WITH A 225A MAIN BREAKER.
REPLACEMENT: PROVIDE NEW 42 SPACE, 225A RATED LIGHTING AND APPLIANCE PANELBOARD WITH 150A MAIN CIRCUIT BREAKER AND COPPER BUSSING IN NEMA 1 ENCLOSURE WITH HINGED FRONT. PANELBOARD SHALL BE RATED FOR USE AS SERVICE EQUIPMENT. PROVIDE WITH A MINIMUM 10 KAIC SHORT CIRCUIT RATING. BREAKERS SHALL BE UL-LISTED FOR KAIC RATING TO MATCH PANELBOARD. ENCLOSURE SHALL BE 14" 20" WIDE.
- PANEL AB:**
EXISTING: PANEL 'AB' IS AN EXISTING 208/120V 3-PHASE, 4-WIRE PANELBOARD IN ELECTRICAL ROOM #127. 'AB' IS 100A RATED WITH A 100A ON-BOARD MAIN BREAKER FED THROUGH BY PANEL 'AA'.
REPLACEMENT: PROVIDE NEW 30 SPACE, 100A RATED LIGHTING AND APPLIANCE PANELBOARD WITH 100A MAIN CIRCUIT BREAKER AND COPPER BUSSING IN NEMA 1 ENCLOSURE WITH HINGED FRONT. PANELBOARD SHALL HAVE A MINIMUM 10 KAIC SHORT CIRCUIT RATING. BREAKERS SHALL BE UL-LISTED FOR KAIC RATING TO MATCH PANELBOARD. ENCLOSURE SHALL BE 14" 20" WIDE.
- PANEL B:**
EXISTING: PANEL 'B' IS AN EXISTING 208/120V 3-PHASE, 4-WIRE PANELBOARD IN THE MAIN ELECTRICAL ROOM. 'B' IS 100A RATED WITH A 30A MAIN BREAKER.
REPLACEMENT: PROVIDE NEW 18 SPACE, 100A RATED LIGHTING AND APPLIANCE PANELBOARD WITH 30A MAIN CIRCUIT BREAKER AND COPPER BUSSING IN NEMA 1 ENCLOSURE WITH HINGED FRONT. PANELBOARD SHALL HAVE A MINIMUM 10 KAIC SHORT CIRCUIT RATING. BREAKERS SHALL BE UL-LISTED FOR KAIC RATING TO MATCH PANELBOARD. ENCLOSURE SHALL BE 14" 20" WIDE.
- PANEL EM:**
EXISTING: PANEL 'EM' IS AN EXISTING 208/120V 3-PHASE, 4-WIRE EMERGENCY PANELBOARD IN THE MAIN ELECTRICAL ROOM. 'EM' IS 100A RATED WITH A 60A MAIN BREAKER.
REPLACEMENT: PROVIDE NEW 30 SPACE, 100A RATED LIGHTING AND APPLIANCE PANELBOARD WITH 60A MAIN CIRCUIT BREAKER AND COPPER BUSSING IN NEMA 1 ENCLOSURE WITH HINGED FRONT. PANELBOARD SHALL HAVE A MINIMUM 10 KAIC SHORT CIRCUIT RATING. BREAKERS SHALL BE UL-LISTED FOR KAIC RATING TO MATCH PANELBOARD. ENCLOSURE SHALL BE 14" 20" WIDE. RENAME PANEL TO BE PANEL 'M'. RENAME TRANSFORMER SERVING TO BE TRANSFORMER 'M'.
- PANEL HVEM:**
EXISTING: PANEL 'HVEM' IS AN EXISTING 480/277V 3-PHASE, 4-WIRE PANELBOARD IN THE MAIN ELECTRICAL ROOM. 'HVEM' IS 100A RATED WITH A 60A MAIN BREAKER.
REPLACEMENT: PROVIDE NEW 30 SPACE, 100A RATED LIGHTING AND APPLIANCE PANELBOARD WITH 60A MAIN CIRCUIT BREAKER AND COPPER BUSSING IN NEMA 1 ENCLOSURE WITH HINGED FRONT. PANELBOARD SHALL HAVE A MINIMUM 10 KAIC SHORT CIRCUIT RATING. BREAKERS SHALL BE UL-LISTED FOR KAIC RATING TO MATCH PANELBOARD. ENCLOSURE SHALL BE 14" 20" WIDE. RENAME PANEL TO BE 'HVEM'.
- COORDINATE DIMENSIONS OF NEW DISTRIBUTION PANEL TO ALLOW FOR OVERNIGHT CROSSOVER OF EXISTING CIRCUITS TO NEW DISTRIBUTION PANEL IN ORDER TO AVOID DOWNTIME FOR THE EXISTING BUILDING.
- PROVIDE WIREWAY IN EXISTING ELECTRICAL ROOM TO INTERCEPT EXISTING FEEDER CIRCUITS AND RE-ROUTE TO NEW DISTRIBUTION PANEL.
- EXISTING SWITCHGEAR TO BE REPLACED. CONTRACTOR TO COORDINATE NEW SWITCH GEAR DIMENSIONS OF INTERIOR CONDUIT STUBUPS WITH NEW SWITCH GEAR TO ALLOW OVERNIGHT REPLACEMENT AND CONNECTION OF NEW GEAR.
- PROVIDE NEW 800A AUTOMATIC TRANSFER SWITCH TO REPLACE EXISTING AUTOMATIC TRANSFER SWITCH. EXISTING CONDUIT TO BE REUSED WHERE POSSIBLE FROM EXISTING GENERATOR SITE INTO ELECTRICAL ROOM.
- PROVIDE NEW 500KVA GENERATOR TO MATCH INCOMING ELECTRICAL SERVICE TO THE STRUCTURE. EXISTING CONDUIT AND MANUAL TRANSFER SWITCH TO ELECTRICAL ROOM TO BE REUSED WHERE POSSIBLE.
- PROVIDE NEW 54 SPACE, 800A RATED POWER DISTRIBUTION PANELBOARD WITH 800A MAIN CIRCUIT BREAKER AND COPPER BUSSING IN A NEMA 3R ENCLOSURE FOR PANEL 'MDP' REPLACEMENT.
- EXISTING CHILLER TO BE DEMOLISHED. DEMOLITION SHALL INCLUDE THE REMOVAL OF EXISTING DOUBLE THROW FUSE DISCONNECT SWITCH AND ALL WIRING AND CONDUIT BACK TO PANEL 'MDP1'. ADDITIONAL CHILLER PUMP CIRCUITS TO ALSO BE REMOVED COMPLETE BACK TO PANEL 'MDP1'.
- EXISTING CHILLER FUSED DISCONNECT TO BE DEMOLISHED. PROVIDE NEW 400A RATED, NEMA 3R FUSED DISCONNECT SWITCH WITH 300A FUSES FOR NEW CHILLER. PROVIDE (3) # 350 KCMIL (1) #4 G IN 2" CONDUIT BACK TO INDICATED BRANCH CIRCUIT. PROVIDE NEW 300A UL-LISTED CIRCUIT BREAKER RATED FOR USE IN EXISTING PANELBOARD. MAINTAIN PANEL SHORT CIRCUIT RATING.
- PROVIDE NEW 400A RATED, NEMA 3R DOUBLE-THROW SWITCH FOR BYPASS TO TEMPORARY CHILLER TO MATCH EXISTING.
- PROVIDE NEW 480V PRI - 208/120V SEC. 30KVA TRANSFORMER TO REPLACE EXISTING. CONTRACTOR TO VERIFY EXISTING EQUIPMENT GROUND CONDUCTOR. IF DISCONNECTED, RECONNECT TO NEAREST BUILDING STRUCTURAL STEEL EQUIPMENT GROUND CONDUCTOR SHALL BE (1) #8 AWG.

FIRST FLOOR POWER PLAN

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

FIRST FLOOR - ELEC. RM. #127

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

FIRST FLOOR ELECTRICAL ROOM PLAN

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

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ORANGE COUNTY GOVERNMENT
FLORIDA

Orange County Government

Orange County Government Capital Project Division

Orange County Code Enforcement Office Renovations

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BID DOCUMENTS

DATE	SUBMISSION / REVISION	NO.

FIRST FLOOR POWER PLAN

SCALE: AS INDICATED

DRAWN BY: Author

CHECK BY: Checker

DATE: 05/30/2018

PROJECT NUMBER: 15012-0011

E-222

PANEL 'C' SCHEDULE														
225 AMPS 120/208 Wye VOLTS 3 PHASE 4 WIRE 42 POLE SPACES				MAIN BREAKER 225 A LUGS GND. BAR SC RATING ENCLOSURE Type 1				INSTALLATION C LOCATION ELECTRICAL CL 257 PANEL FEEDER T-1 NOTES						
CIRCUIT DESCRIPTION	WIRE SIZE	CONDUIT	CB. AMPS	Poles	CKT	A	B	C	CKT	Poles	CB. AMPS	CONDUIT	WIRE SIZE	CIRCUIT DESCRIPTION
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	1	540 VA	900 VA		2	1	20 A	3/4"	1-#10, 1-#10, 1-#10	RECEPTACLE
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	3		360 VA	540 VA	4	1	20 A	3/4"	1-#12, 1-#12, 1-#12	RECEPTACLE
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	5			900 VA	6	1	20 A	3/4"	1-#10, 1-#10, 1-#10	RECEPTACLE
DHWP-1	1-#12, 1-#12, 1-#12	3/4"	20 A	1	7	60 VA	720 VA		8	1	20 A	3/4"	1-#12, 1-#12, 1-#12	RECEPTACLE
RECEPTACLE	1-#10, 1-#10, 1-#10	3/4"	20 A	1	9		1080 VA	540 VA	10	1	20 A	3/4"	1-#12, 1-#12, 1-#12	RECEPTACLE
RECEPTACLE	1-#10, 1-#10, 1-#10	3/4"	20 A	1	11			1080 VA	12	1	20 A	3/4"	1-#10, 1-#10, 1-#10	RECEPTACLE
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	13	1440 VA	900 VA		14	1	20 A	3/4"	1-#10, 1-#10, 1-#10	RECEPTACLE
RECEPTACLE	1-#10, 1-#10, 1-#10	3/4"	20 A	1	15		1440 VA	0 VA	16					
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	17			540 VA	18	3	30 A	--	--	SURGE PROTECTOR
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	19	1440 VA	0 VA		20					
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	21		1440 VA	720 VA	22	1	20 A	3/4"	1-#12, 1-#12, 1-#12	RECEPTACLE
RECEPTACLE	1-#8, 1-#8, 1-#8	3/4"	20 A	1	23			1440 VA	24	1	20 A	3/4"	1-#12, 1-#12, 1-#12	RECEPTACLE
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	25	540 VA	1440 VA		26	1	20 A	3/4"	1-#8, 1-#8, 1-#8	RECEPTACLE
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	27		540 VA	1440 VA	28	1	20 A	3/4"	1-#10, 1-#10, 1-#10	RECEPTACLE
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	29			1440 VA	30	1	20 A	3/4"	1-#12, 1-#12, 1-#12	RECEPTACLE
RECEPTACLE	1-#10, 1-#10, 1-#10	3/4"	20 A	1	31	1440 VA	360 VA		32	1	20 A	3/4"	1-#12, 1-#12, 1-#12	RECEPTACLE
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	33		540 VA	0 VA	34	1	20 A	--	--	EXISTING VAV UNITS - 2ND FLOOR
RECEPTACLE	1-#10, 1-#10, 1-#10	3/4"	20 A	1	35			1440 VA	36	1	20 A	--	--	RECEPTACLE
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	37	900 VA	480 VA		38	1	20 A	3/4"	1-#12, 1-#12, 1-#12	EW-C1
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	39		900 VA	1440 VA	40	1	20 A	3/4"	1-#12, 1-#12, 1-#12	RECEPTACLE
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	41			720 VA	42	1	20 A	3/4"	1-#10, 1-#10, 1-#10	RECEPTACLE
Total Load:						11160 VA	10980 VA	13680 VA						
Total Amps:						93 A	92 A	114 A						

PANEL HVB SCHEDULE														
225 AMPS 480/277 Wye VOLTS 3 PHASE 4 WIRE 40 POLE SPACES				MAIN BREAKER 100 A LUGS GND. BAR SC RATING ENCLOSURE Type 1				INSTALLATION HVB LOCATION ELECTRICAL CL 257 PANEL FEEDER NOTES						
CIRCUIT DESCRIPTION	WIRE SIZE	CONDUIT	CB. AMPS	Poles	CKT	A	B	C	CKT	Poles	CB. AMPS	CONDUIT	WIRE SIZE	CIRCUIT DESCRIPTION
XFMR T-1	3-#6, 1-#6, 1-#10	1"	50 A	3	3	11160 VA	980 VA		2	1	20 A	3/4"	1-#12, 1-#12, 1-#12	Lighting
Lighting	1-#12, 1-#12, 1-#12	3/4"	20 A	1	7	420 VA	144 VA		4	1	20 A	3/4"	1-#12, 1-#12, 1-#12	Lighting
Lighting	1-#12, 1-#12, 1-#12	3/4"	20 A	1	9		700 VA	108 VA	6	1	20 A	3/4"	1-#12, 1-#12, 1-#12	Lighting
Lighting	1-#12, 1-#12, 1-#12	3/4"	20 A	1	11			595 VA	12	1	20 A	3/4"	1-#12, 1-#12, 1-#12	Lighting
FTU-2-1, FTU-2-16, FTU-2-17, FTU-2-18	--	--	40 A	3	13	0 VA	0 VA		14					FTU-2-3, FTU-2-4, FTU-2-5, FTU-2-6, FTU-2-7
SPACE	--	--	--	--	15	0 VA	0 VA		16					SPACE
SPACE	--	--	--	--	17	0 VA	0 VA		18					SPACE
SPACE	--	--	--	--	19	0 VA	0 VA		20					SPACE
FTU-2-12, FTU-2-14, FTU-2-15	--	--	30 A	3	21		0 VA	0 VA	22					FTU-2-8, FTU-2-9, FTU-2-10, FTU-2-11, FTU-2-19
SPACE	--	--	--	--	23	0 VA	0 VA		24	3	30 A	--	--	SPACE
SPACE	--	--	--	--	25	0 VA	0 VA		26					SPACE
Lighting	1-#12, 1-#12, 1-#12	3/4"	20 A	1	27		2000 VA	0 VA	28					SPACE
Lighting	1-#12, 1-#12, 1-#12	3/4"	20 A	1	29			90 VA	30					SPACE
Lighting	1-#12, 1-#12, 1-#12	3/4"	20 A	1	31	597 VA	0 VA		32	3	20 A	--	--	Surge Suppressor
Lighting - Dwelling Unit	1-#12, 1-#12, 1-#12	3/4"	20 A	1	33		120 VA	0 VA	34					SPACE
SPARE	--	--	20 A	1	35			0 VA	36	1	20 A	--	--	SPARE
SPARE	--	--	20 A	1	37	0 VA	0 VA		38	1	20 A	--	--	SPARE
SPARE	--	--	20 A	1	39		0 VA	0 VA	40	1	20 A	--	--	SPARE
SPARE	--	--	20 A	1	41			0 VA	42	1	20 A	--	--	SPARE
Total Load:						13211 VA	14872 VA	15121 VA						
Total Amps:						48 A	55 A	56 A						

PANEL 'CA' SCHEDULE														
225 AMPS 120/208 Wye VOLTS 3 PHASE 4 WIRE 42 POLE SPACES				MAIN BREAKER 100 A LUGS GND. BAR SC RATING ENCLOSURE Type 1				INSTALLATION CA LOCATION ELECTRICAL CL 257 PANEL FEEDER NOTES						
CIRCUIT DESCRIPTION	WIRE SIZE	CONDUIT	CB. AMPS	Poles	CKT	A	B	C	CKT	Poles	CB. AMPS	CONDUIT	WIRE SIZE	CIRCUIT DESCRIPTION
EXISTING VAV	1-#12, 1-#12, 1-#12	3/4"	20 A	1	1	0 VA	1000 VA		2	1	20 A	3/4"	1-#12, 1-#12, 1-#12	VAV VV-A-1
EXISTING EAST SIDE UPS	--	--	30 A	2	3		0 VA	1000 VA	4	1	20 A	3/4"	1-#10, 1-#10, 1-#10	VAV VV-A-2
VAV VV-B-1	1-#12, 1-#12, 1-#12	3/4"	20 A	1	7	1000 VA	0 VA		6	1	20 A	3/4"	1-#12, 1-#12, 1-#12	EXISTING FDV
EXISTING VAV	1-#12, 1-#12, 1-#12	3/4"	20 A	1	9		0 VA	0 VA	8	2	30 A	--	--	EXISTING WEST SIDE UPS
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	11			540 VA	10					
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	13	900 VA	0 VA		12	2	20 A	--	--	EXISTING HOT WATER HEATER
RECEPTACLE	1-#12, 1-#12, 1-#12	3/4"	20 A	1	15		720 VA	0 VA	14					
PRINTER/COPIER (RM. 231)	1-#12, 1-#12, 1-#12	3/4"	20 A	1	17			180 VA	16	2	20 A	--	--	EXISTING HOT WATER HEATER
SURGE PROTECTOR	--	--	30 A	3	19	0 VA	180 VA		18					
SPARE	--	--	20 A	1	21		0 VA	180 VA	20	1	20 A	3/4"	1-#12, 1-#12, 1-#12	PRINTER/COPIER (OPEN OFFICE)
SPARE	--	--	20 A	1	23		180 VA		22	1	20 A	3/4"	1-#12, 1-#12, 1-#12	PRINTER/COPIER (OPEN OFFICE)
SPARE	--	--	20 A	1	25	0 VA	180 VA		24	1	20 A	3/4"	1-#12, 1-#12, 1-#12	PLOTTER (RM. 231)
SPARE	--	--	20 A	1	27		0 VA	0 VA	26	1	20 A	3/4"	1-#12, 1-#12, 1-#12	PRINTER/COPIER (RM. 231)
SPARE	--	--	20 A	1	29			0 VA	28	1	20 A	--	--	SPARE
SPARE	--	--	20 A	1	31	0 VA	0 VA		30	1	20 A	--	--	SPARE
SPARE	--	--	20 A	1	33		0 VA	0 VA	32	1	20 A	--	--	SPARE
SPARE	--	--	20 A	1	35			0 VA	34	1	20 A	--	--	SPARE
SPARE	--	--	20 A	1	37	0 VA	0 VA		36	1	20 A	--	--	SPARE
SPARE	--	--	20 A	1	39		0 VA	0 VA	38	1	20 A	--	--	SPARE
SPARE	--	--	20 A	1	41			0 VA	40	1	20 A	--	--	SPARE
SPARE	--	--	20 A	1	43			0 VA	42	1	20 A	--	--	SPARE
Total Load:						3280 VA	1900 VA	900 VA						
Total Amps:						28 A	17 A	8 A						

Branch Panel: MDP1				Location:	Volts: 480/277 Wye	A.I.C. Rating:
				Supply From: ATS	Phases: 3	Mains Type:
				Mounting:	Wires: 4	Mains Rating: 800 A
				Enclosure: NEMA 3R		MCB Rating:
Notes:						
CKT		Circuit Description	Trip	Poles		
1						
2	PANEL 'HVA'		225 A	3		
3						
4						
5	PANEL 'HVB'		225 A	3		
6						
7						
8	RTU-2		60 A	3		
9						
10						
11	DISC. TRANSFER SWITCH		60 A	3		
12						
13						
14	SPARE		40 A	3		
15						
16						
17	XFMR B		20 A	3		
18						
19						
20	RTU-1		50 A	3		
21						
22						
23	XFMR PANEL F		40 A	3		
24						
25						
26	ELEVATOR		70 A	3		
27						
28						
29	FAN COIL 2		50 A	3		
30						
31						
32	FAN COILS 1 & 4		40 A	3		
33						
34						
35	FAN COILS 3, 5, 6		70 A	3		
36						
37						
38	SURGE		50 A	3		
39						
40						
41	SPARE		60 A	3		
42						
43						
44	PANEL 'HVC'		400 A	3		
45						
46						
47	Power		300 A	3		
48						
Legend:						
Notes: EXISTING CIRCUIT 40/41/42 FOR EXISTING CHILLER PUMPS TO BE REMOVED UPON DEMOLITION OF PUMPS AND MARKED AS 'SPARE' (AS SHOWN).						



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PANEL SCHEDULES

SCALE: AS INDICATED
DRAWN BY: M. LARUE
CHECK BY: T. COMER
DATE: 05/30/2018
PROJECT NUMBER: 15012-0011

E-401

PANEL 'HVA' SCHEDULE														
225 AMPS 480/277 Wye VOLTS 3 PHASE 4 WIRE 30 POLE SPACES				MAIN BREAKER 225 A LUGS GND. BAR SC RATING ENCLOSURE Type 1				INSTALLATION HVA LOCATION PANEL FEEDER NOTES						
CIRCUIT DESCRIPTION	WIRE SIZE	CONDUIT	CB. AMPS	Poles	CKT	A	B	C	CKT	Poles	CB. AMPS	CONDUIT	WIRE SIZE	CIRCUIT DESCRIPTION
LIGHT WEST WING	--	--	20 A	1	1	0 VA	0 VA		2	1	20 A	--	--	LIGHT WEST WING
LIGHT WEST WING	--	--	20 A	1	3		0 VA		4	1	20 A	--	--	LIGHT EAST WING
LIGHT LAB	--	--	20 A	1	5		0 VA		6	1	20 A	--	--	LIGHT NORTH WING
LIGHT CORRIDOR MECH ROOM	--	--	20 A	1	7	0 VA	0 VA		8	1	20 A	--	--	LIGHT HALLWAY
FAN TERMINAL NORTH EAST 4 UNITS	--	--	40 A	3	9		0 VA		10	1	20 A	--	--	LIGHT LOBBY
					11				12	1	20 A	--	--	LIGHT SOUTH WING
					13	0 VA	0 VA		14					
FAN TERMINAL NORTH EAST 5 UNITS	--	--	40 A	3	17		0 VA		16	3	110 A	--	--	75KVA TRANSFORMER
					19	0 VA	0 VA		18					
SPACE	--	--	--	--	21		0 VA	0 VA	22	3	20 A	--	--	VAV BOTH CONFERENCE ROOMS
SPACE	--	--	--	--	23				24					
FAN TERMINAL NORTH EAST 8 UNITS	--	--	40 A	3	27		0 VA	0 VA	28	3	30 A	--	--	SURGE SUPPRESSOR
					29				30					
Total Load:						0 VA	0 VA	0 VA						
Total Amps:						0 A	0 A	0 A						

PANEL 'HVEM' SCHEDULE														
100 AMPS 480/277 Wye VOLTS 3 PHASE 4 WIRE 30 POLE SPACES				MAIN BREAKER 60 A LUGS GND. BAR SC RATING ENCLOSURE Type 1				INSTALLATION HVEM LOCATION PANEL FEEDER NOTES						
CIRCUIT DESCRIPTION	WIRE SIZE	CONDUIT	CB. AMPS	Poles	CKT	A	B	C	CKT	Poles	CB. AMPS	CONDUIT	WIRE SIZE	CIRCUIT DESCRIPTION
MAIN	--	--	60 A	3	3	0 VA	0 VA		4	1	20 A	--	--	SPACE
					5				6	1	20 A	--	--	PARKING LOT LIGHTS
					7	0 VA	0 VA		8	1	20 A	--	--	SPACE
TRANSFORMER EM - 30 KVA	--	--	40 A	3	9		0 VA		10	1	20 A	--	--	A/C - 1
EMER. LIGHTING 1ST FLOOR	--	--	20 A	1	13	0 VA	0 VA		12	1	20 A	--	--	A/C - 1
EMER. LIGHTING 2ND FLOOR	--	--	20 A	1	15		0 VA		14	--	--	--	--	SPACE
					17				16	--	--	--	--	SPACE
SURGE SUPPRESSOR	--	--	30 A	3	19	0 VA	0 VA		18	--	--	--	--	SPACE
					21		0 VA	0 VA	22	--	--	--	--	SPACE
SPACE	--	--	--	--	23		0 VA	0 VA	24	--	--	--	--	SPACE
SPACE	--	--	--	--	25	0 VA	0 VA		26	--	--	--	--	SPACE
SPACE	--	--	--	--	27		0 VA	0 VA	28	--	--	--	--	SPACE
SPACE	--	--	--	--	29				30	--	--	--	--	SPACE
Total Load:						0 VA	0 VA	0 VA						
Total Amps:						0 A	0 A	0 A						

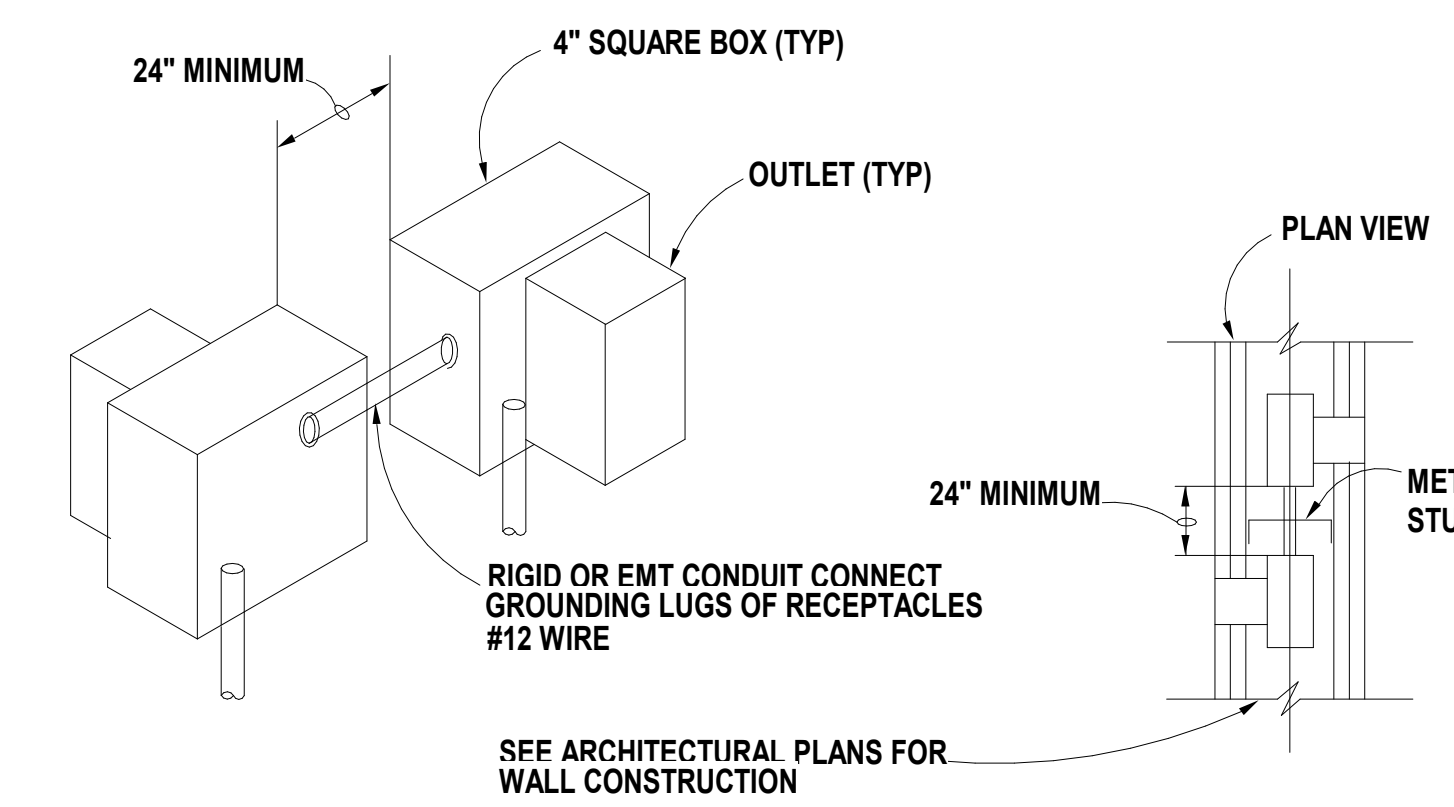
PANEL 'A' SCHEDULE														
225 AMPS 120/208 Wye VOLTS 3 PHASE 4 WIRE 42 POLE SPACES				MAIN BREAKER 225 A LUGS GND. BAR SC RATING ENCLOSURE Type 1				INSTALLATION A LOCATION PANEL FEEDER NOTES						
CIRCUIT DESCRIPTION	WIRE SIZE	CONDUIT	CB. AMPS	Poles	CKT	A	B	C	CKT	Poles	CB. AMPS	CONDUIT	WIRE SIZE	CIRCUIT DESCRIPTION
AUTOMATIC DOOR OPENER	--	--	20 A	1	1	0 VA	0 VA		2	1	20 A	--	--	RECEPTACLE ROOM
SPACE	--	--	--	--	3		0 VA	0 VA	4	2	40 A	--	--	EXISTING
RECEPTACLE ROOM	--	--	20 A	1	5				6	1	20 A	--	--	EXISTING
RECEPTACLE BREAK ROOM	--	--	25 A	1	7	0 VA	0 VA		8	1	20 A	--	--	EXISTING
UPS	--	--	30 A	2	9		0 VA		10	1	20 A	--	--	EXISTING
					11				12	1	20 A	--	--	EXISTING
SPARE	--	--	20 A	1	13	0 VA	0 VA		14					
RECEPTACLE ROOM #	--	--	20 A	1	15		0 VA	0 VA	16	3	30 A	--	--	SURGE SUPPRESSOR
RECEPTACLE ROOM #	--	--	20 A	1	17				18					
RECEPTACLE BREAK ROOM	--	--	20 A	1	19	0 VA	0 VA		20	1	20 A	--	--	RECEPTACLE RECEPTION 105 & 2ND FLOOR
RECEPTACLE BREAK ROOM	--	--	20 A	1	21		0 VA	0 VA	22	1	20 A	--	--	RECEPTACLE RECEPTION 105 & 2ND FLOOR
RECEPTACLE BREAK ROOM	--	--	20 A	1	23				24	1	20 A	--	--	RECEPTACLE ROOM 109, 132
RECEPTACLE BREAK ROOM	--	--	20 A	1	25	0 VA	0 VA		26	1	20 A	--	--	CUBICLE ROOM 105
RECEPTACLE RECEPTION	--	--	20 A	1	27		0 VA	0 VA	28	1	20 A	--	--	CUBICLE ROOM 105
RECEPTACLE CAFETERIA	--	--	20 A	1	29				30	1	20 A	--	--	CUBICLE ROOM 105
RECEPTACLE CAFETERIA	--	--	20 A	1	31	0 VA	0 VA		32	1	20 A	--	--	RECEPTACLE BREAKROOM
RECEPTACLE CAFETERIA	--	--	20 A	1	33		0 VA	0 VA	34	1	20 A	--	--	RECEPTACLE BREAKROOM
RECEPTACLE CAFETERIA	--	--	20 A	1	35				36					
					37				38					
					39				40					
					41				42					
Total Load:						0 VA	0 VA	0 VA						
Total Amps:						0 A	0 A	0 A						

PANEL 'EM' SCHEDULE														
100 AMPS 120/208 Wye VOLTS 3 PHASE 4 WIRE 30 POLE SPACES				MAIN BREAKER 60 A LUGS GND. BAR SC RATING ENCLOSURE Type 1				INSTALLATION EM LOCATION PANEL FEEDER NOTES						
CIRCUIT DESCRIPTION	WIRE SIZE	CONDUIT	CB. AMPS	Poles	CKT	A	B	C	CKT	Poles	CB. AMPS	CONDUIT	WIRE SIZE	CIRCUIT DESCRIPTION
MAIN	--	--	60 A	3	3		0 VA		4	2	40 A	--	--	EXHAUST FAN 20
					5				6	1	20 A	--	--	HVC CONTROL
EXHAUST FAN 16	--	--	20 A	1	7	0 VA	0 VA		8	1	20 A	--	--	EXHAUST FAN 22
EXHAUST FAN 18	--	--	20 A	1	9		0 VA		10	1	20 A	--	--	RECEPTACLE
RECEPTACLE	--	--	20 A	1	11				12	1	20 A	--	--	RECEPTACLE
RECEPTACLE	--	--	20 A	1	13	0 VA	0 VA		14					
RECEPTACLE	--	--	20 A	1	15		0 VA	0 VA	16	3	30 A	--	--	SURGE SUPPRESSOR
CHILLER CONTROL	--	--	20 A	1	17				18					
EMS	--	--	20 A	1	19	0 VA	0 VA		20	1	20 A	--	--	RECEPTACLE
ELEVATOR CAB LIGHTS	--	--	20 A	1	21		0 VA	0 VA	22	1	20 A	--	--	PHONE ROOM RECEPTACLE
ELEVATOR CAB LIGHTS	--	--	30 A	1	23				24	1	20 A	--	--	PHONE ROOM RECEPTACLE
FORENSIC RECEPTACLE	--	--	30 A	1	25	0 VA	0 VA		26	2	20 A	--	--	GARAGE
GENERATOR CRANK HEATER	--	--	20 A	1	27		0 VA	0 VA	28	2	20 A	--	--	
CHARGERS	--	--	20 A	1	29				30	1	20 A	--	--	PHONE ROOM RECEPTACLE
Total Load:						0 VA	0 VA	0 VA						
Total Amps:						0 A	0 A	0 A						

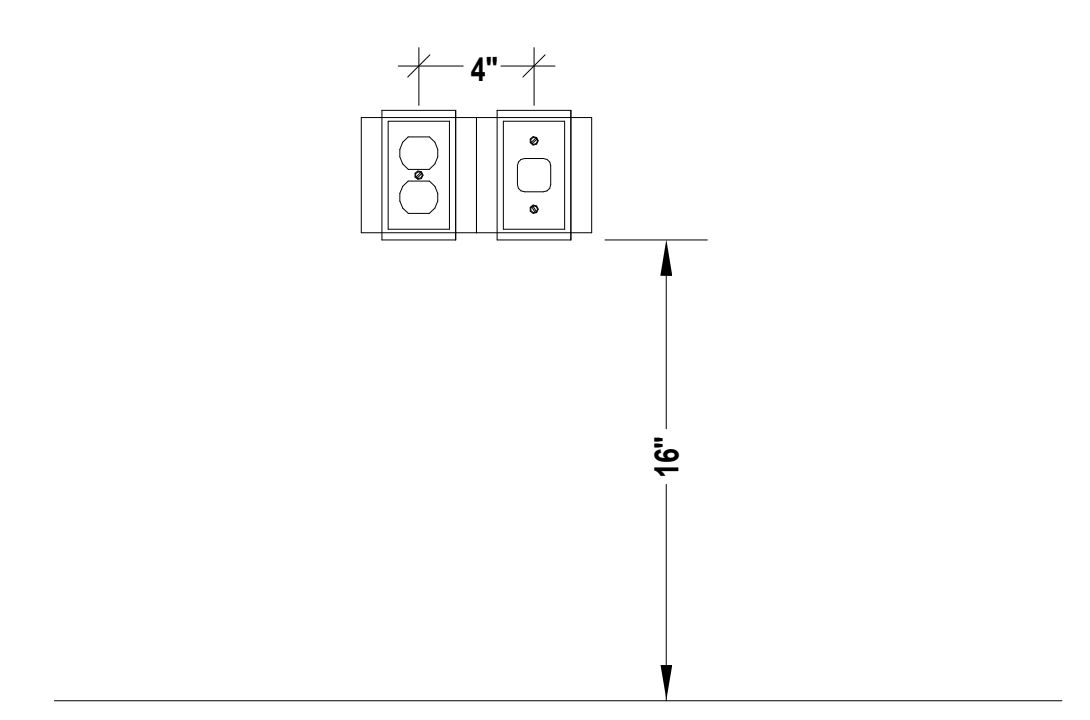
PANEL 'AA' SCHEDULE														
225 AMPS 120/208 Wye VOLTS 3 PHASE 4 WIRE 36 POLE SPACES				MAIN BREAKER 150 A LUGS GND. BAR SC RATING ENCLOSURE Type 1				INSTALLATION AA LOCATION PANEL FEEDER NOTES						
CIRCUIT DESCRIPTION	WIRE SIZE	CONDUIT	CB. AMPS	Poles	CKT	A	B	C	CKT	Poles	CB. AMPS	CONDUIT	WIRE SIZE	CIRCUIT DESCRIPTION
RECEPTACLE TRAINING ROOM #131	--	--	20 A	1	1	0 VA	0 VA		2	1	20 A	--	--	SPARE
RECEPTACLE TRAINING ROOM #131	--	--	20 A	1	3		0 VA	0 VA	4	1	20 A	--	--	TRAINING ROOM #131
RECEPTACLE	--	--	20 A	1	5				6	1	20 A	--	--	RECEPTACLE ROOM #105
RECEPTACLE ROOM #126	--	--	20 A	1	7	0 VA	0 VA		8	1	20 A	--	--	EXISTING
RECEPTACLE LOBBY	--	--	20 A	1	9		0 VA	0 VA	10	1	20 A	--	--	EXISTING
RECEPTACLE LOBBY	--	--	20 A	1	11				12	2	30 A	--	--	COPIER HALL #117
RECEPTACLE ROOM #126	--	--	20 A	1	13	0 VA	0 VA		14					
FLOOR RECEPTACLE ROOM #126	--	--	20 A	1	15		0 VA	0 VA	16	1	20 A	--	--	SPARE
RECEPTACLE ROOM #119	--	--	20 A	1	17				18	1	20 A	--	--	RECEPTACLE ROOM #116, #118
SPARE	--	--	20 A	1	19	0 VA	0 VA		20	1	20 A	--	--	RECEPTACLE HALL 117
SPARE	--	--	20 A	1	21		0 VA	0 VA	22					
AH# CONTROL	--	--	20 A	1	23				24	3	50 A	--	--	A/C UNIT
PANEL 'D'	--	--	100 A	2	25	0 VA	0 VA		26					
SPARE	--	--	20 A	1	27		0 VA	0 VA	28	1	20 A	--	--	SPARE
SPARE	--	--	20 A	1	29		0 VA	0 VA	30	1	20 A	--	--	RECEPTACLE
SPARE	--	--	20 A	1	31	0 VA	0 VA		32					
COPIER ROOM #105	--	--	30 A	2	35		0 VA	0 VA	34	3	50 A	--	--	SURGE SUPPRESSOR
					36				36					
Total Load:						0 VA	0 VA	0 VA						
Total Amps:						0 A	0 A	0 A						

PANEL 'B' SCHEDULE														
100 AMPS 120/208 Wye VOLTS 3 PHASE 4 WIRE 18 POLE SPACES				MAIN BREAKER 30 A LUGS GND. BAR SC RATING ENCLOSURE Type 1				INSTALLATION B LOCATION PANEL FEEDER NOTES						
CIRCUIT DESCRIPTION	WIRE SIZE	CONDUIT	CB. AMPS	Poles	CKT	A	B	C	CKT	Poles	CB. AMPS	CONDUIT	WIRE SIZE	CIRCUIT DESCRIPTION
POLE LIGHT	--	--	20 A	1	1	0 VA	0 VA		2					
POLE LIGHT	--	--	20 A	1	3				4	3	30 A	--	--	SURGE SUPPRESSOR
WALLPACK	--	--	20 A	1	5				6					
EXTERIOR LIGHT	--	--	20 A	1	7	0 VA	0 VA		8	1	20 A	--	--	TIMER
EXTERIOR LIGHT	--	--	20 A	1	9		0 VA	0 VA	10	1	20 A	--	--	SPARE
EXTERIOR LIGHT	--	--	20 A	1	11				12	1	20 A	--	--	SPARE
EXTERIOR LIGHT	--	--	20 A	1	13	0 VA	0 VA		14	1	20 A	--	--	SPARE
SPACE	--	--	--	--	15		0 VA	0 VA	16	1	20 A	--	--	SPARE
SPACE	--	--	--	--	17				18	--	--	--	--	SPACE
Total Load:						0 VA	0 VA	0 VA						
Total Amps:						0 A	0 A	0 A						

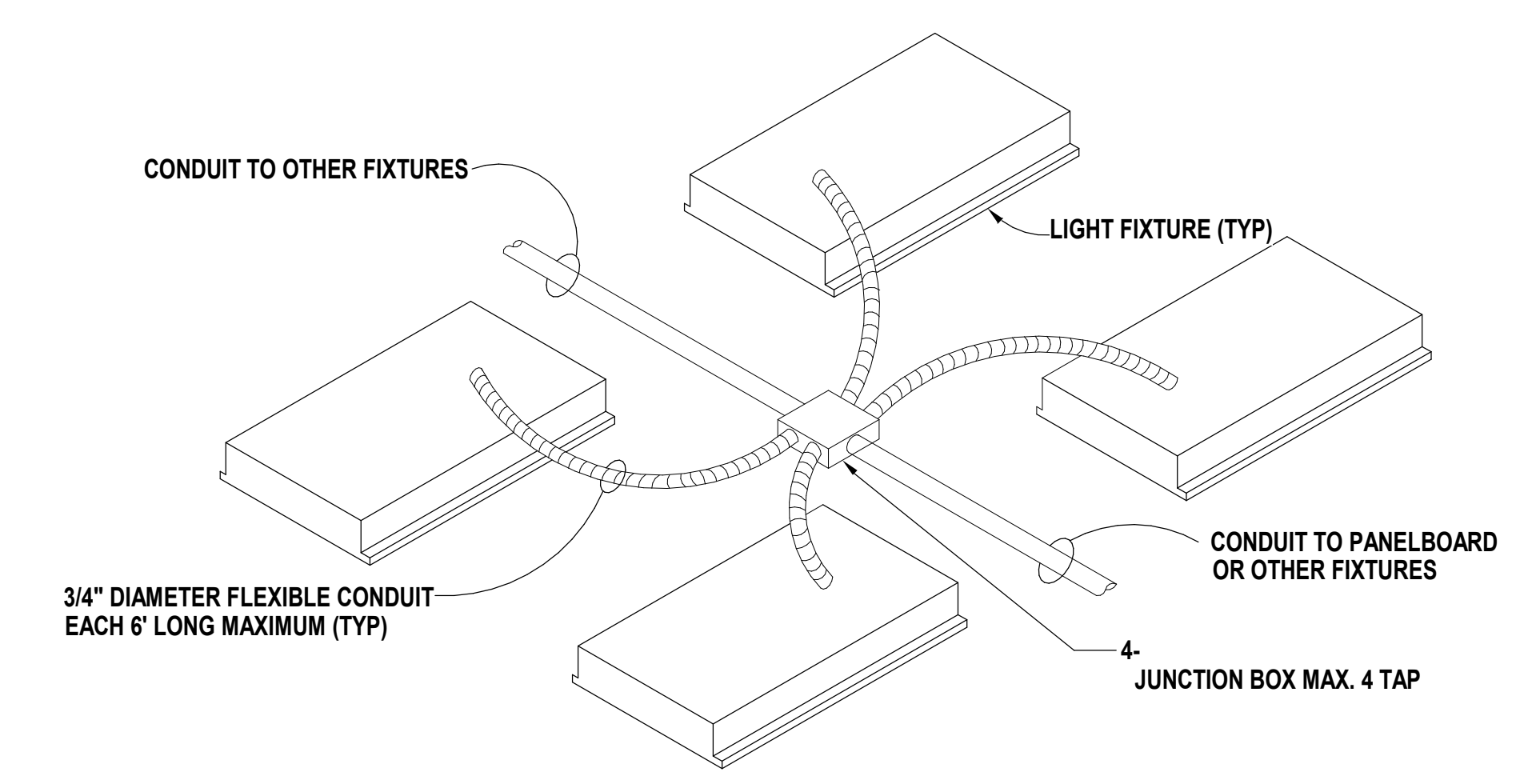
PANEL 'AB' SCHEDULE														
100 AMPS 120/208 Wye VOLTS 3 PHASE 4 WIRE 30 POLE SPACES				MAIN BREAKER 100 A LUGS GND. BAR SC RATING ENCLOSURE Type 1				INSTALLATION AB LOCATION PANEL FEEDER NOTES						
CIRCUIT DESCRIPTION	WIRE SIZE	CONDUIT	CB. AMPS	Poles	CKT	A	B	C	CKT	Poles	CB. AMPS	CONDUIT	WIRE SIZE	CIRCUIT DESCRIPTION
GFI RECEPTACLE MAIN BATH.	--	--	20 A	1	1	0 VA	0 VA		2	2	30 A	--	--	RECEPTACLE TRAINING ROOM
AH CONTROL	--	--	20 A	1	3		0 VA	0 VA	4	2	30 A	--	--	RECEPTACLE TRAINING ROOM
TRAINING	--	--	20 A	2	5				6	2	30 A	--	--	RECEPTACLE TRAINING ROOM
RECEPTACLE	--	--	20 A	1	9	0 VA	0 VA		10	1	20 A	--	--	RECEPTACLE
SPARE	--	--	20 A	1	11				12	2	30 A	--	--	RECEPTACLE TRAINING ROOM
MECHANICAL ROOM RECEPTACLE	--	--	30 A	2	13	0 VA	0 VA		14					
					15		0 VA	0 VA	16					
RECEPTACLE	--	--	20 A	1	17				18	3	30 A	--	--	SURGE SUPPRESSOR
RECEPTACLE	--	--	20 A	1	19	0 VA	0 VA		20					
RECEPTACLE KITCHEN	--	--	20 A	1	21		0 VA	0 VA	22					
RECEPTACLE	--	--	20 A	1	23				24	2	20 A	--	--	RECEPTACLE
RECEPTACLE	--	--	20 A	1	25	0 VA	0 VA		26					
RECEPTACLE	--	--	20 A	1	27		0 VA	0 VA	28	3				



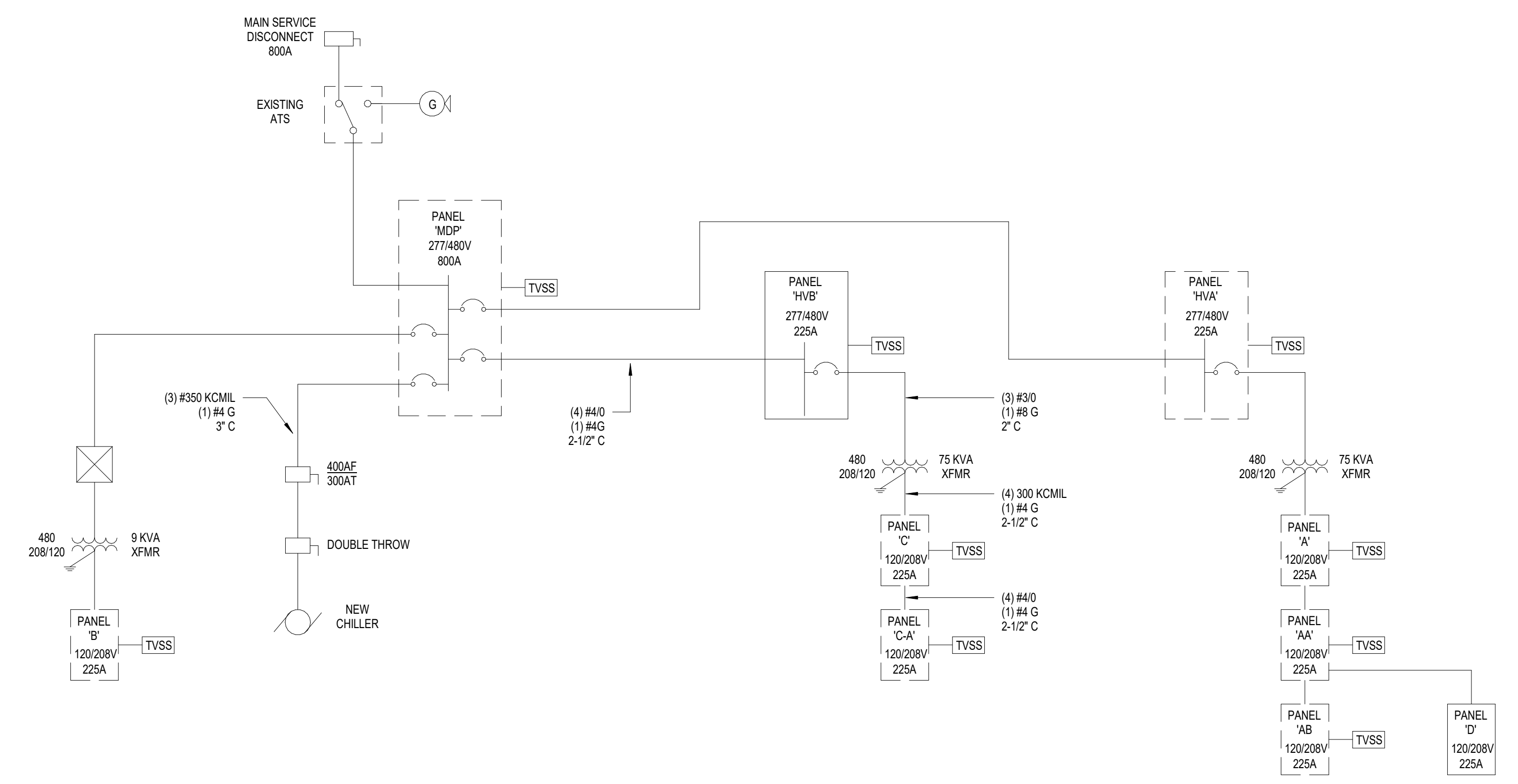
1
E-501 **BACK-TO-BACK RECEPTACLES DETAIL**
SCALE: 12" = 1'-0"



2
E-501 **OUTLET ALIGNMENT DETAIL**
SCALE: 1 1/2" = 1'-0"

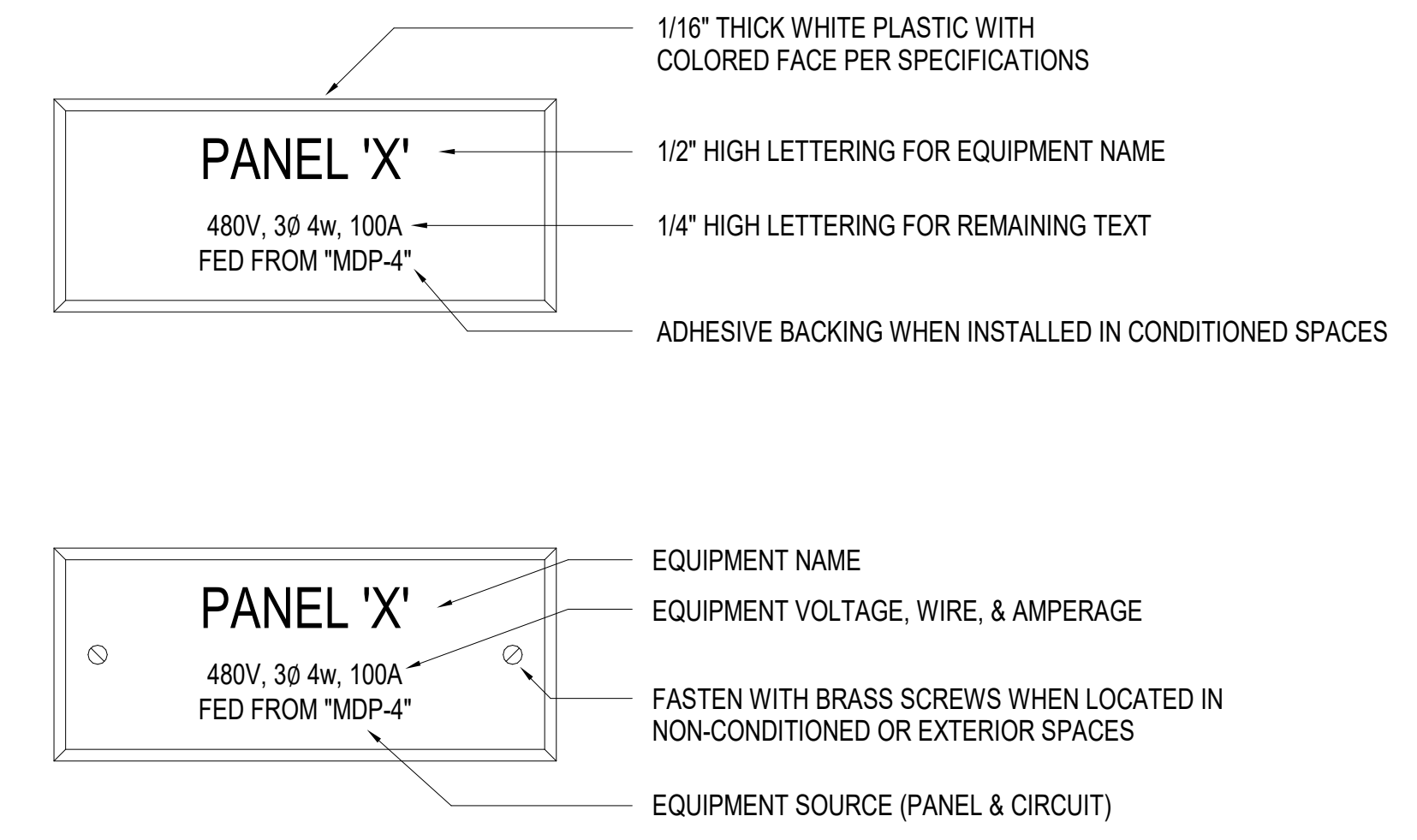


3
E-501 **RECESSED LIGHT FIXTURE WIRING TAP DETAIL**
SCALE: 12" = 1'-0"

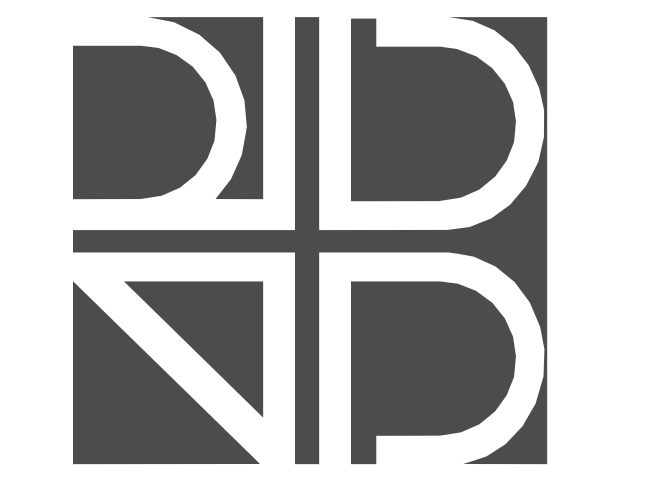


NOTE: UNLESS OTHERWISE NOTED IN THE AREA DENORED "PROJECT SCOPE OF WORK", ALL PANELS/DISCONNECTS AND OTHER ELECTRICAL EQUIPMENT IS SHOWN FOR REFERENCE ONLY. PANELS SHOWN IN A DASHED LINE FORMAT ARE PLANNED TO BE REPLACED.

4
E-501 **ONE-LINE DIAGRAM**
SCALE: 12" = 1'-0"



5
E-501 **TYPICAL PANEL LABEL DETAIL**
SCALE: 12" = 1'-0"



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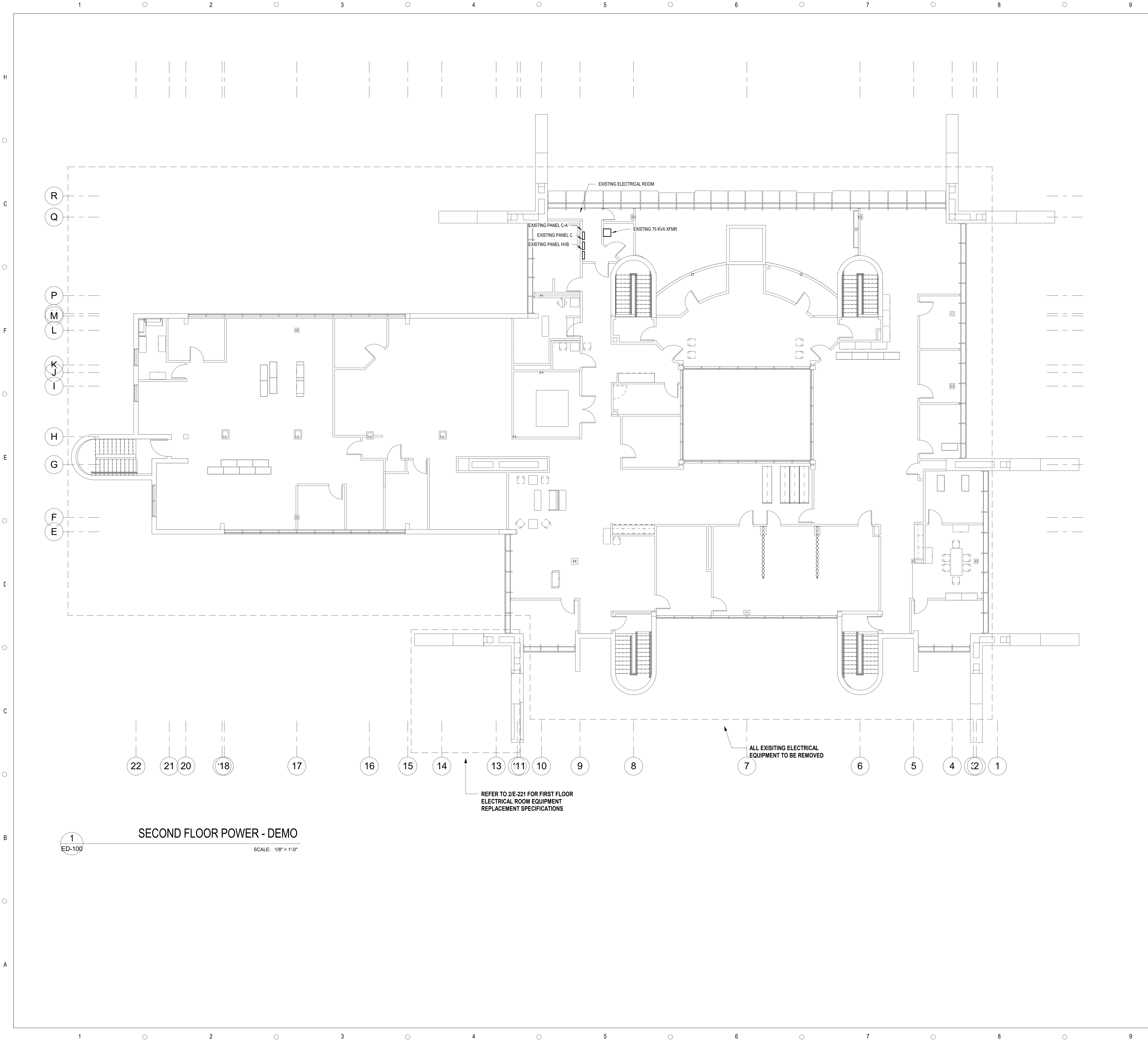
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DATE	SUBMISSION / REVISION	NO.

ONE-LINE DIAGRAM
AND DETAILS

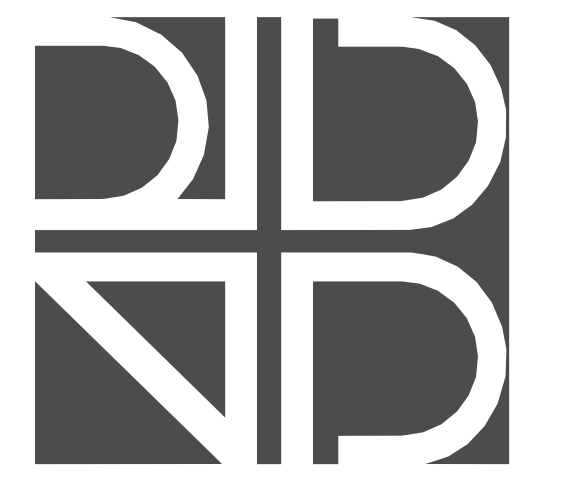
SCALE:	AS INDICATED
DRAWN BY:	M. LARUE
CHECK BY:	T. COMER
DATE:	05/30/2018
PROJECT NUMBER:	15012-0011

E-501



GENERAL NOTES

- EXISTING ELECTRICAL EQUIPMENT, PANELS 'C', 'C-A', AND 'HVB' AND 75 KVA TRANSFORMER, TO BE REPLACED AND MOVED TO NEW ELECTRICAL ROOM. REFER TO 1/E-221 FOR NEW ELECTRICAL ROOM LOCATION.



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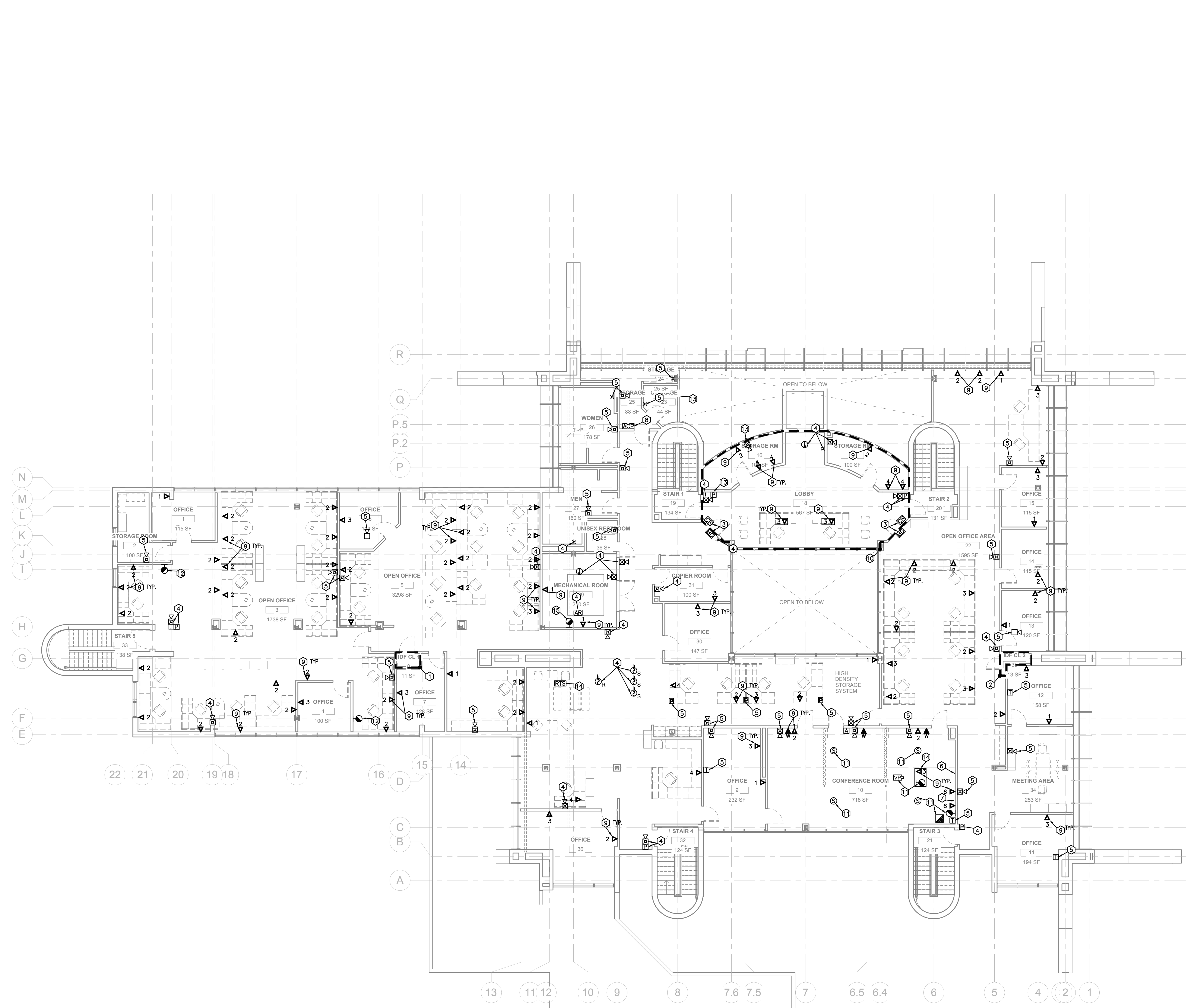
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DATE	SUBMISSION / REVISION	NO.

**SECOND FLOOR
POWER PLAN - DEMO**

SCALE: AS INDICATED
DRAWN BY: M. LARUE
CHECK BY: T. COMER
DATE: 05/30/2018
PROJECT NUMBER: 15012-0011

ED-100



DRAFT - NOT FOR CONSTRUCTION

NOTES

GENERAL NOTES

- REFER TO TELECOMMUNICATIONS GENERAL NOTES ON SHEET T001.
- INFORMATION RELATED TO EXISTING SYSTEMS IS BASED ON THE OWNER'S AS-BUILT DRAWINGS AND VARIOUS WALK-THROUGH INVESTIGATIONS OF THE BUILDING DURING THE DESIGN PHASE. NOT EVERY DEVICE OR LOCATION HAS BEEN VERIFIED. CONTRACTOR SHALL FIELD VERIFY DEVICE LOCATIONS AS NECESSARY TO ACCOMPLISH THE WORK OF THIS PROJECT.
- CONTRACTOR MAY USE EXISTING RACEWAY WHERE IN LIKE NEW CONDITION AND CODE COMPLIANT. WHERE DEVICE OUTLET BOXES ARE TO BE REUSED CONTRACTOR SHALL FIELD VERIFY THE DEVICE MOUNTING HEIGHT IS IN COMPLIANCE WITH CODE AND CONTRACT DOCUMENT REQUIREMENTS. IF NOT, CONTRACTOR SHALL ADJUST THE OUTLET BOX HEIGHT OR INSTALL NEW, PATCH AND REPAIR WALLS TO MATCH THE SURROUNDING AREA.
- CONTRACTOR SHALL PROVIDE AND INSTALL NEW PATHWAYS (E.G. OUTLET BOXES, RACEWAYS, PULL BOXES, ETC.) WHERE NEW DEVICE LOCATIONS ARE IDENTIFIED ON THE RENOVATION DRAWINGS.
- CONTRACTOR SHALL DEMOLISH AND REMOVE COMPLETE ANY MATERIALS (I.E. RACEWAYS, CABLING, ETC.) ABANDONED ABOVE CEILINGS. DEMOLITION SHALL BE COMPLETE TO SOURCE.
- DEVICES SHOWN ON DEMOLITION DRAWINGS ARE EXISTING TO REMAIN UNLESS SPECIFICALLY NOTED OTHERWISE. EXISTING TO REMAIN DEVICES ARE NOT SHOWN ON RENOVATION DRAWINGS. CONTRACTOR SHALL FIELD VERIFY AND PROTECT THROUGHOUT CONSTRUCTION.

HEX NOTES

- EXISTING COMM. ROOM 220. CONTRACTOR TO PROTECT ALL EQUIPMENT IN THIS SPACE AND MODIFY AS NECESSARY FOR EXPANSION OF COMM. ROOM. REFER TO ENLARGED PLANS.
- EXISTING COMM. ROOM 206. CONTRACTOR TO PROTECT ALL EQUIPMENT IN THIS SPACE AND MODIFY AS NECESSARY FOR EXPANSION OF COMM. ROOM. REFER TO ENLARGED PLANS.
- REMOVE AND REINSTALL ACCESS CONTROL DEVICES AS NECESSARY IN CONJUNCTION WITH RELOCATING ACCESS CONTROL HEAD END.
- DEMOLISH EXISTING FIRE ALARM DEVICE AND REPLACE WITH NEW, AND REWORK FIRE ALARM CIRCUITS AS NECESSARY FOR NEW DEVICES. REFER TO RENOVATION DRAWINGS, TYPICAL.
- DEMOLISH DEVICE COMPLETE TO SOURCE.
- EXISTING SMART BOARD AT THIS LOCATION. OWNER'S VENDOR TO REMOVE AND REINSTALL. REFER TO RENOVATION DRAWINGS.
- EXISTING CONFERENCE WEB CAM AT THIS LOCATION. OWNER'S VENDOR TO REMOVE AND REINSTALL. REFER TO RENOVATION DRAWINGS.
- EXISTING ACCESS CONTROL EQUIPMENT PANEL TO BE RELOCATED TO ACCESSIBLE ABOVE CEILING AREA.
- CONTRACTOR TO DEMOLISH OUTLETS, CONDUIT, AND CABLING COMPLETE TO SOURCE AND REPLACE WITH NEW. REFER TO RENOVATION DRAWINGS, TYPICAL.
- DEVICES ARE EXISTING TO REMAIN IN THIS AREA UNLESS OTHERWISE NOTED.
- OWNER'S VENDOR TO REMOVE AND REINSTALL AUDIO/VIDEO EQUIPMENT NECESSARY FOR EXPANSION OF CONFERENCE ROOM. REFER TO RENOVATION DRAWINGS.
- OUTLET BOX FEEDING EXISTING SYSTEMS FURNITURE. CONTRACTOR TO DEMOLISH AFTER OWNER'S VENDOR REMOVES CABLING.
- DEMOLISH FIRE ALARM DEVICES AND CIRCUITS AND REWORK AS NECESSARY IN CONJUNCTION WITH MECHANICAL DAMPER DEMOLITION. REFER TO MECHANICAL DRAWINGS.
- DEMOLISH FLOOR BOX COMPLETE TO SOURCE. PATCH FLOOR AS NECESSARY.
- FIRE ALARM SYSTEM PULL BOX. CONTRACTOR SHALL REWORK AS NECESSARY.

1 DEMO FLOOR PLAN - LEVEL 02 - SYSTEMS
SCALE: 1/8" = 1'-0"

TD202

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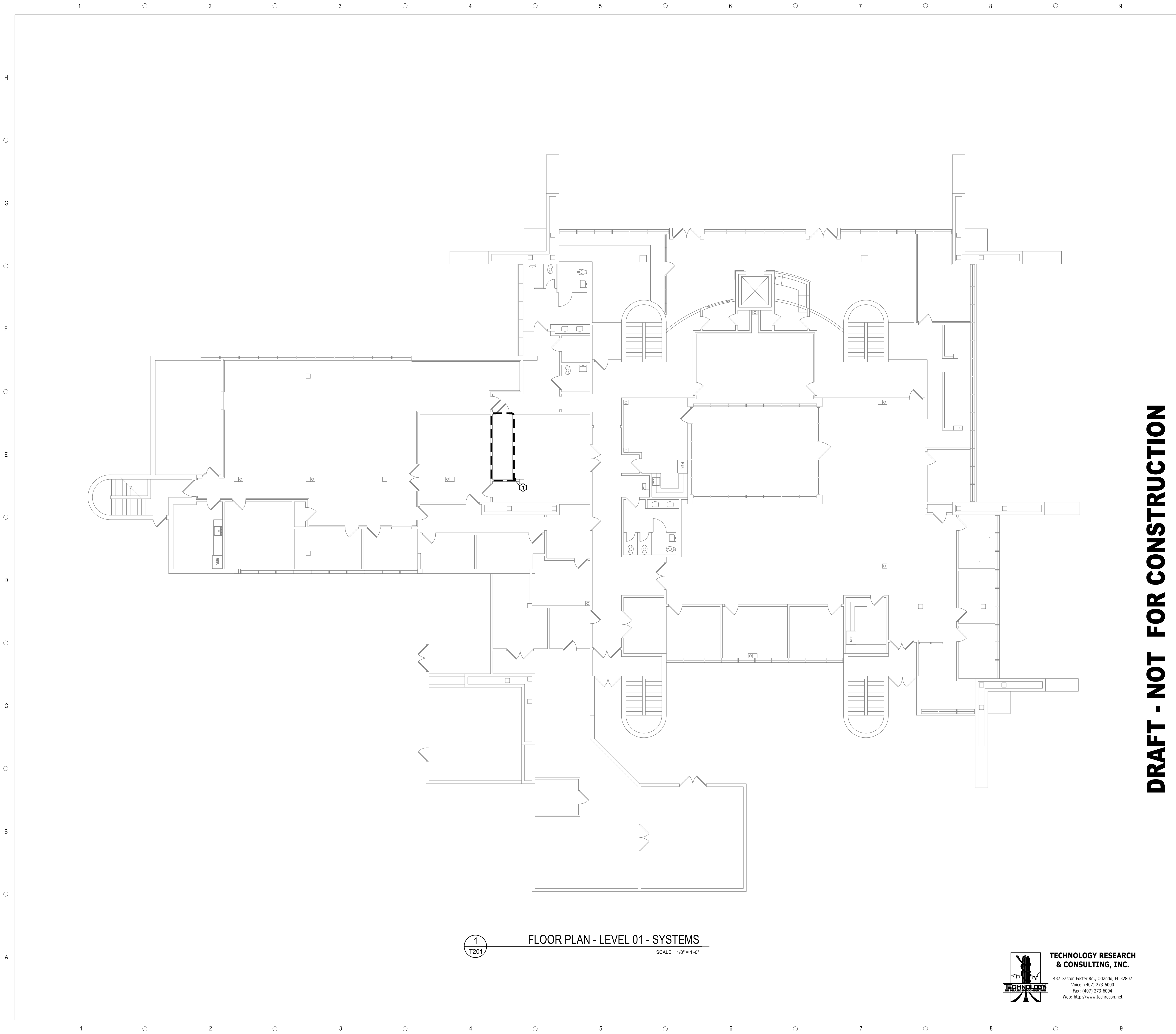
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**DEMO FLOOR PLAN
LEVEL 02 - SYSTEMS**

SCALE: AS INDICATED
DRAWN BY: DW
CHECK BY: LJT
DATE: 05/31/2017
PROJECT NUMBER: 15012-0020

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NOTES

- GENERAL NOTES**
- REFER TO TELECOMMUNICATIONS GENERAL NOTES ON SHEET T0.1.
- HEX NOTES**
- LOCATION OF FIRST FLOOR ELECTRIC ROOM. FACT AND FIRE ALARM POWER SUPPLIES ARE LOCATED WITHIN THIS ROOM. CONTRACTOR SHALL REWORK CIRCUITS AS NECESSARY FOR QUANTITY OF NEW DEVICES SHOWN ON THE RENO PLANS.

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**FLOOR PLAN LEVEL 01
SYSTEMS**

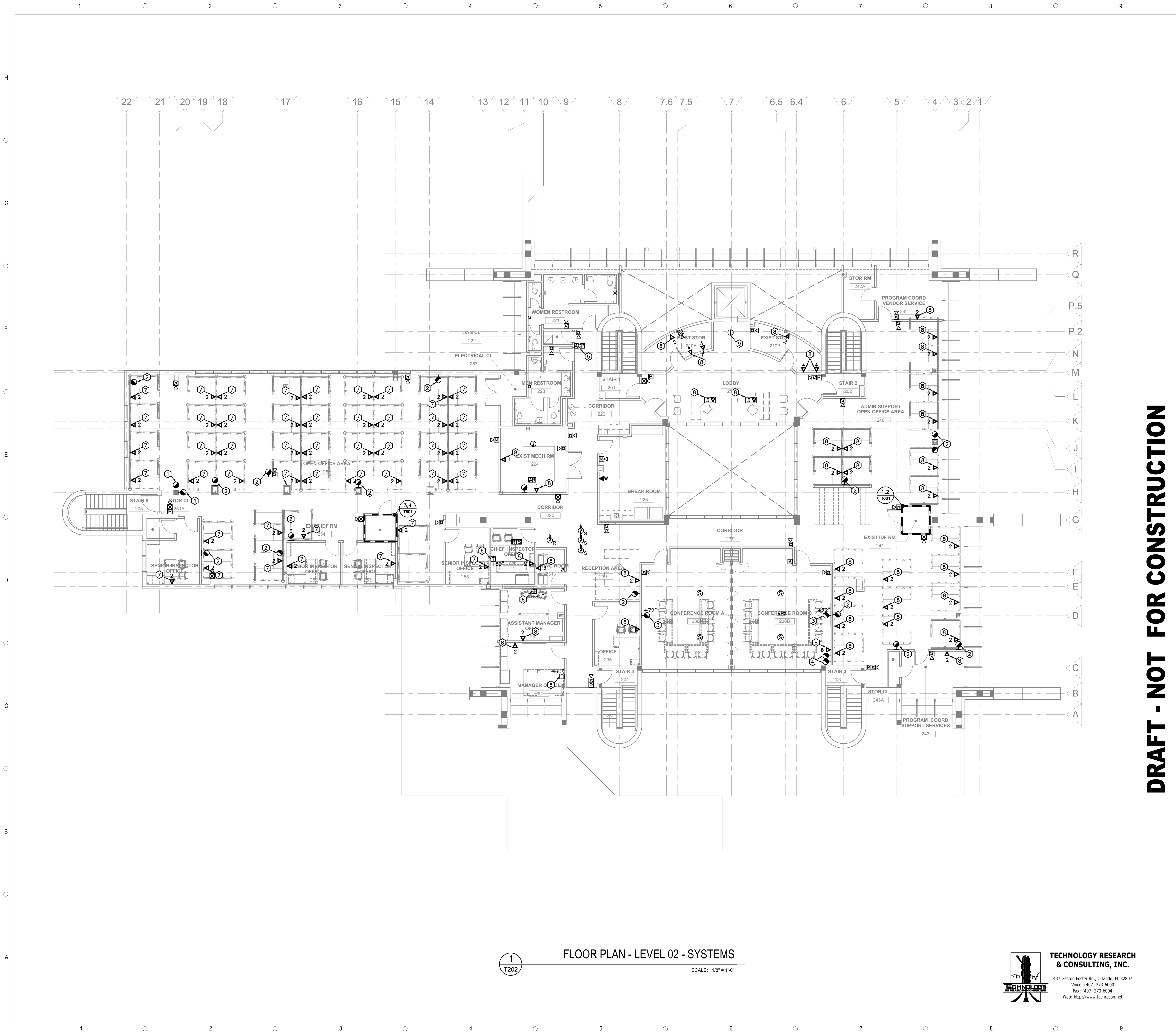
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PROJECT NUMBER: 15012-0020

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T201

FLOOR PLAN - LEVEL 01 - SYSTEMS
SCALE: 1/8" = 1'-0"

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T201



NOTES

- GENERAL NOTES**
- REFER TO TELECOMMUNICATIONS GENERAL NOTES ON SHEET T001.
- HEX NOTES**
- EXISTING OUTLET BOX PROVIDE AND INSTALL NEW BLANK PLATE FOR DEMOLISHED DEVICE. REFER TO DEMOLITION PLANS.
 - PROVIDE 1-1/4" CONDUIT TO FEED OUTLET BOX FOR ROUTING OF SYSTEMS CATEGORY 6 CABLES TO NEW DATA OUTLET LOCATIONS IN SYSTEMS FURNITURE.
 - OUTLET BOX WITH TWO (2) 1-1/4" CONDUIT EXTENDED INTO CEILING FOR VIDEO CONNECTION TO WALL MOUNTED VIDEO MONITOR. MONITOR AND MONITOR WALL BRACKET OFOI EQUIPMENT.
 - PROVIDE TWO 1-1/4" CONDUITS TO FEED OUTLET BOXES FOR AUDIO/VIDEO CIRCUITS AT THIS LOCATION.
 - EXISTING ACCESS CONTROL PANEL RELOCATED TO ABOVE ACCESSIBLE CEILING AREA. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AS NECESSARY TO MAINTAIN EXISTING CONNECTIONS TO SYSTEM DEVICES.
 - FIELD VERIFY LOCATION AND ROUGH-IN WITH OWNER AND ARCHITECT PRIOR TO ROUGH-IN.
 - HOMERUN TO VOICE/DATA TERMINATION AREA IN IDF (254).
 - HOMERUN TO VOICE/DATA TERMINATION AREA IN IDF (241).
 - HEAT DETECTOR FOR ELEVATOR RECALL RECONNECT TO EXISTING CIRCUIT.

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1
FLOOR PLAN - LEVEL 02 - SYSTEMS
SCALE: 1/8" = 1'-0"

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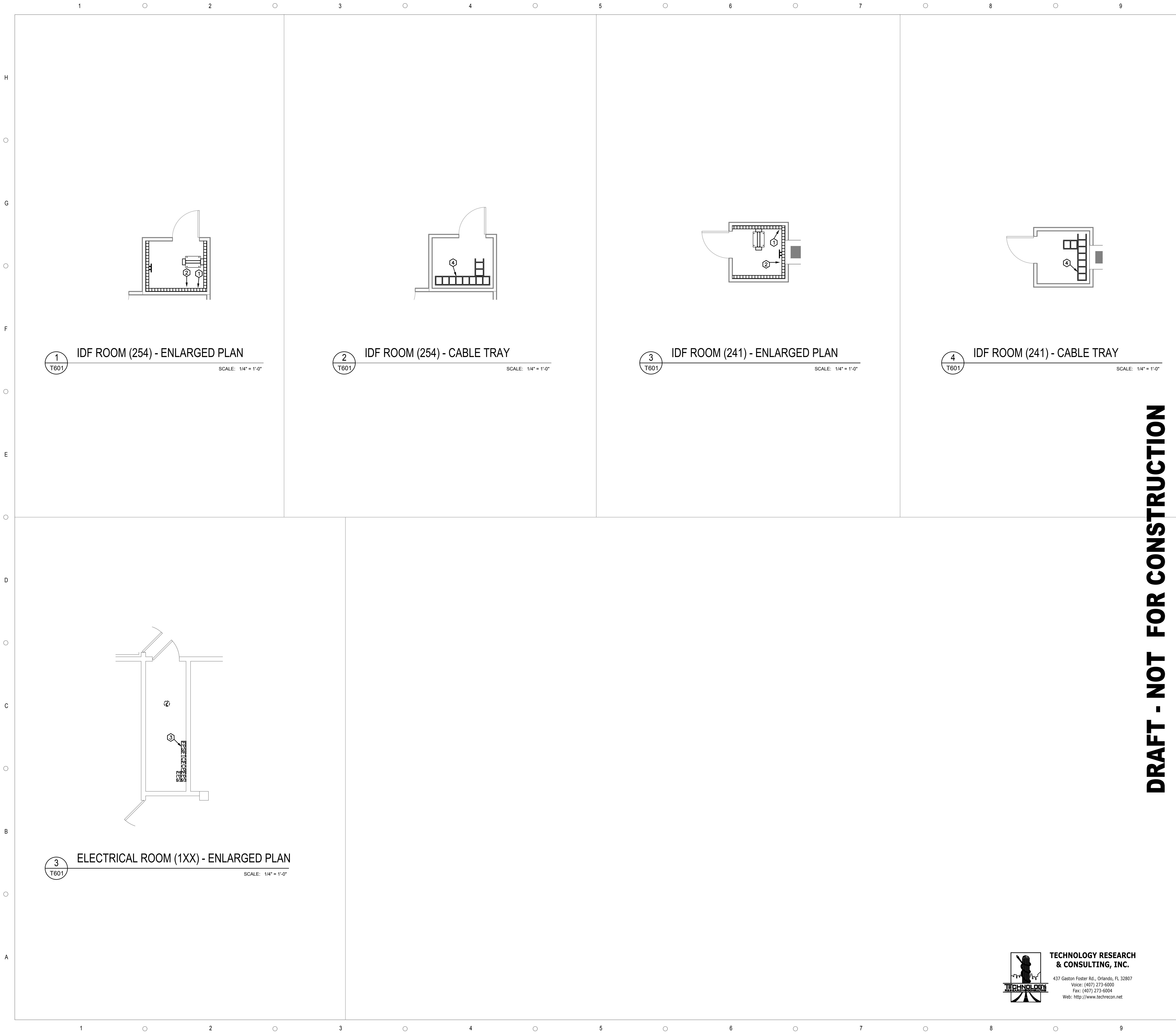
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FLOOR PLAN LEVEL 02

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NOTES

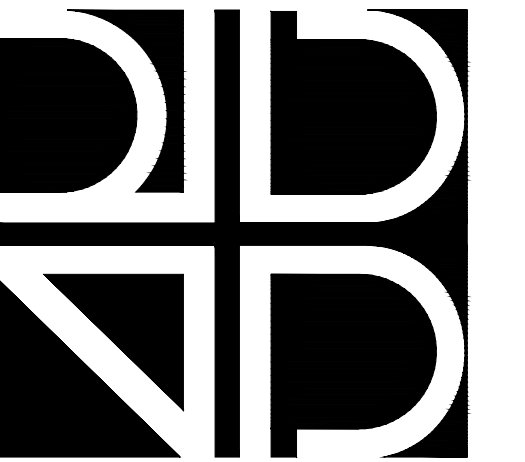
GENERAL NOTES

1. REFER TO TELECOMMUNICATIONS GENERAL NOTES ON SHEET T001.

HEX NOTES

- ① EXISTING VOICE DATA EQUIPMENT RACK TO BE DEMOLISHED COMPLETE TO SOURCE AND REPLACE WITH NEW EQUIPMENT RACK, INCLUDING PATCH PANELS, WIRE MANAGEMENT, ETC. REFER TO RACK ELEVATIONS.
- ② REMOVE AND REINSTALL EXISTING I.P. BASED CAMERA AS NECESSARY FOR EXPANSION OF EXISTING COMMUNICATION ROOMS.
- ③ CONTRACTOR SHALL FIELD VERIFY LOAD AND BATTERY CALCULATIONS FOR FIRE ALARM IN THEIR SUBMITTALS. CONTRACTOR SHALL ADD REMOTE POWER SUPPLIES WHERE EXISTING EQUIPMENT DOES NOT HAVE ADEQUATE CAPACITY FOR NEW DEVICES BEING INSTALLED AS PART OF THIS PROJECT.
- ④ CABLE TRAY.

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**ENLARGED PLANS
SYSTEMS**

SCALE: AS INDICATED

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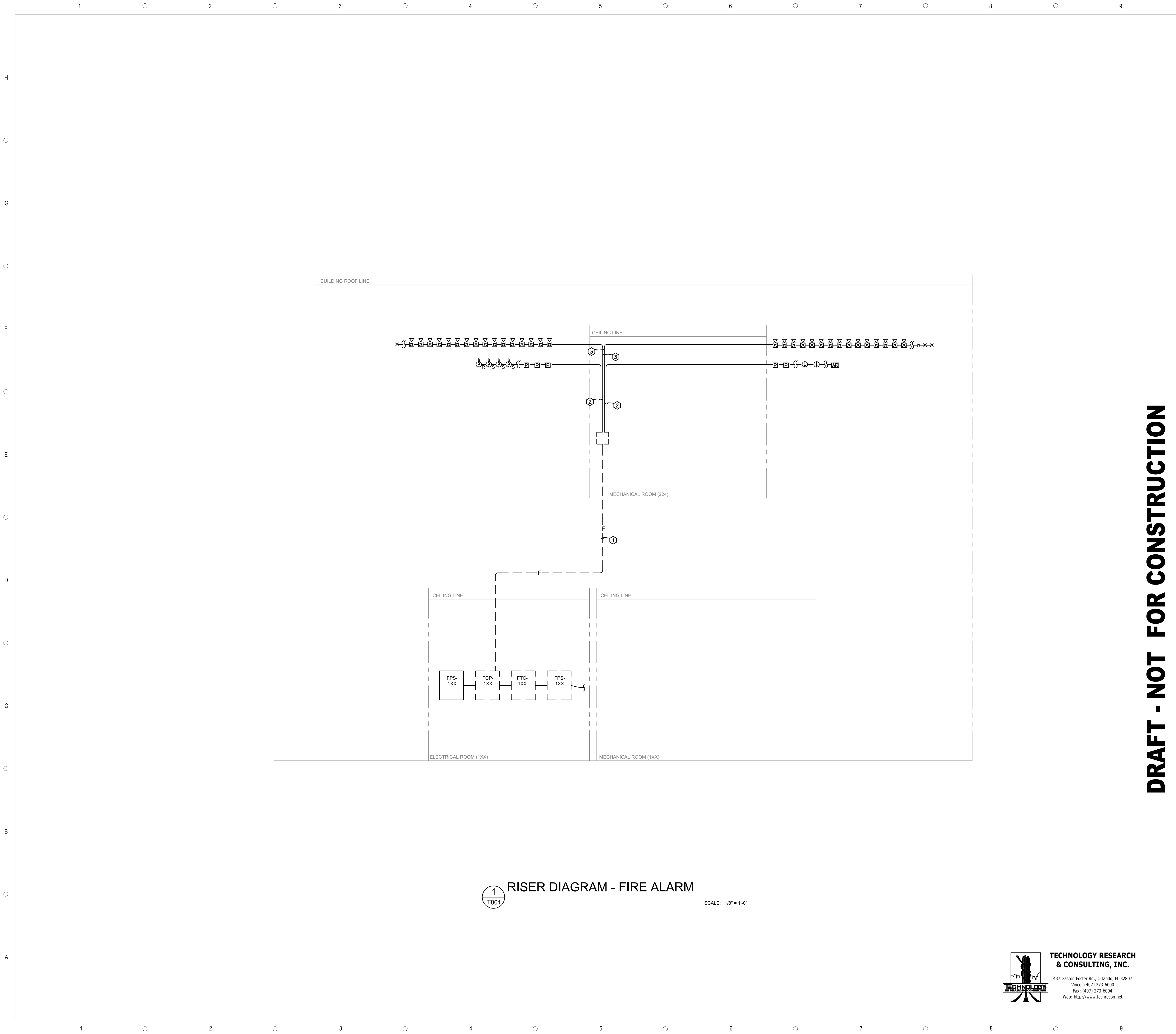
DATE: 05/31/2017

PROJECT NUMBER: 15012-0020



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T601



1
T801

RISER DIAGRAM - FIRE ALARM

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

NOTES

- GENERAL NOTES**
- REFER TO TELECOMMUNICATIONS GENERAL NOTES ON SHEET T001.
- HEX NOTES**
- EXISTING FIRE ALARM CONDUIT WITH NEW CABLE.
 - SLC LOOP CIRCUIT.
 - NAC CIRCUIT.

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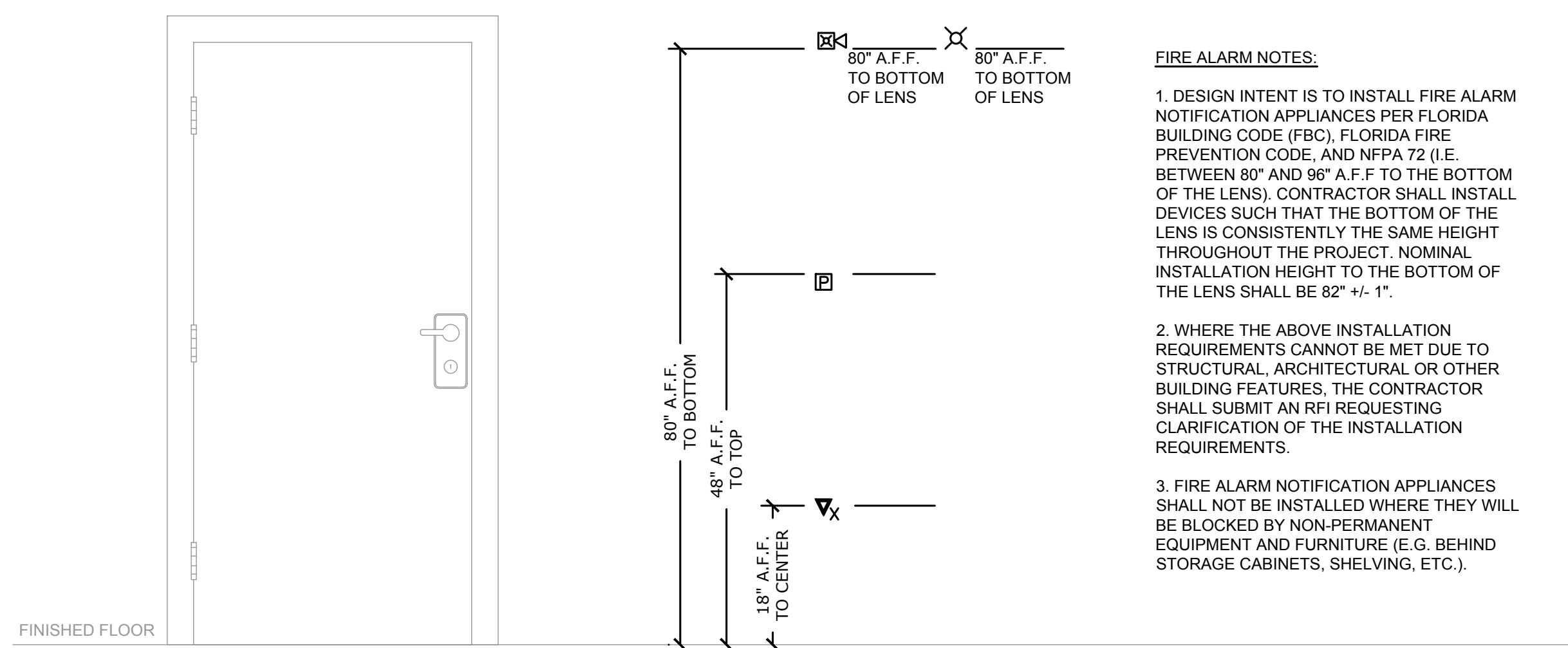
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**RISER DIAGRAM - FIRE
ALARM**

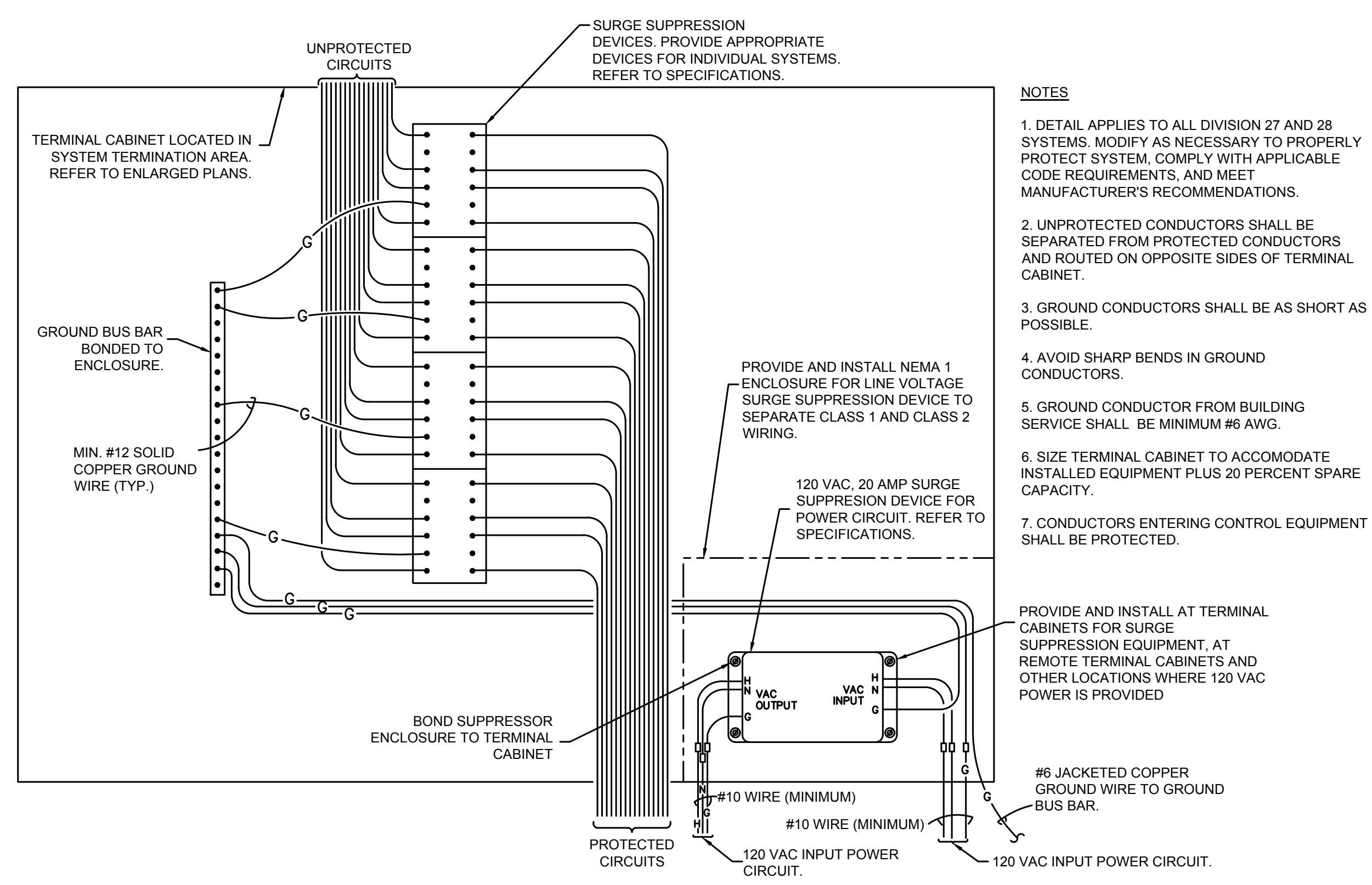
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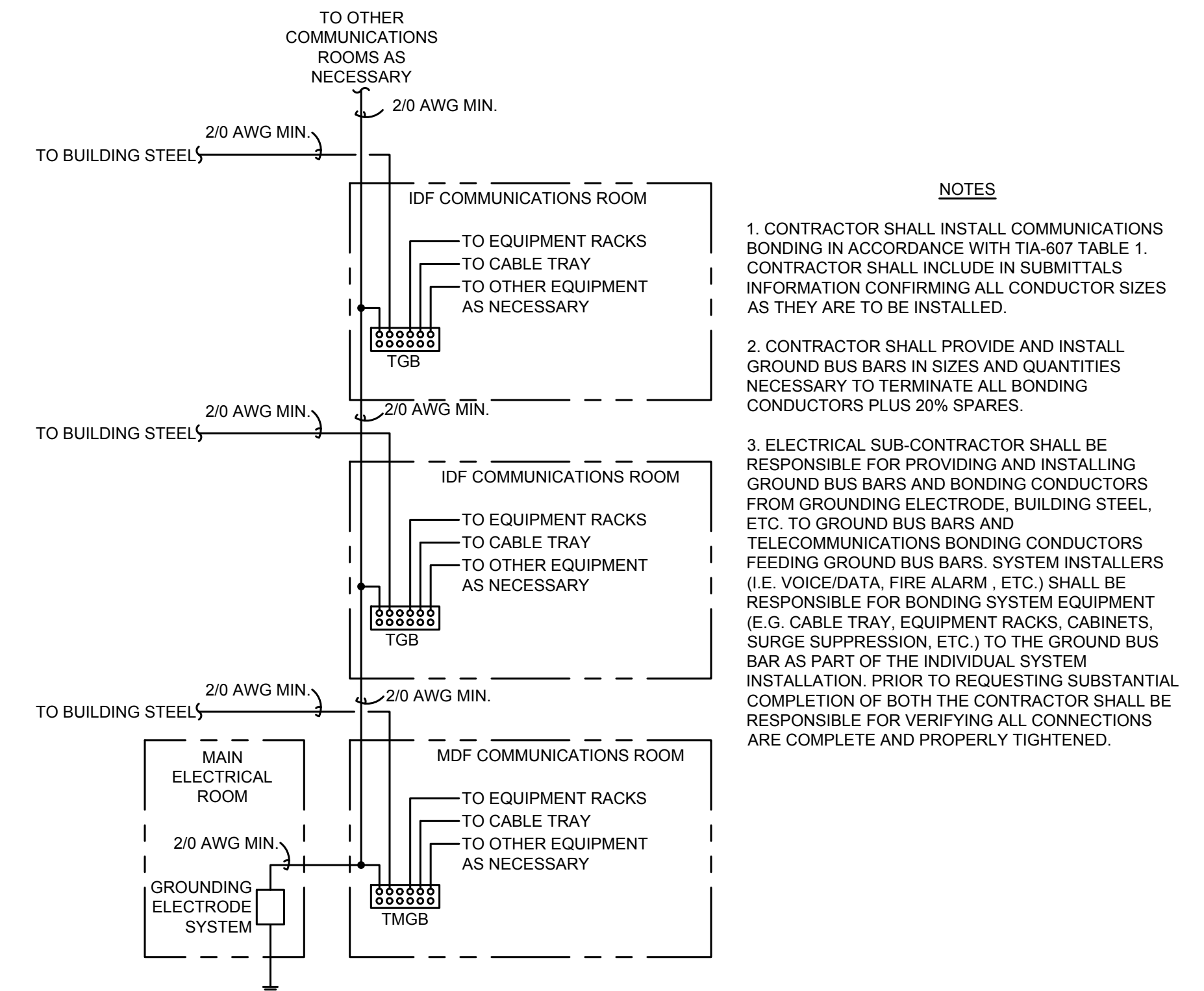




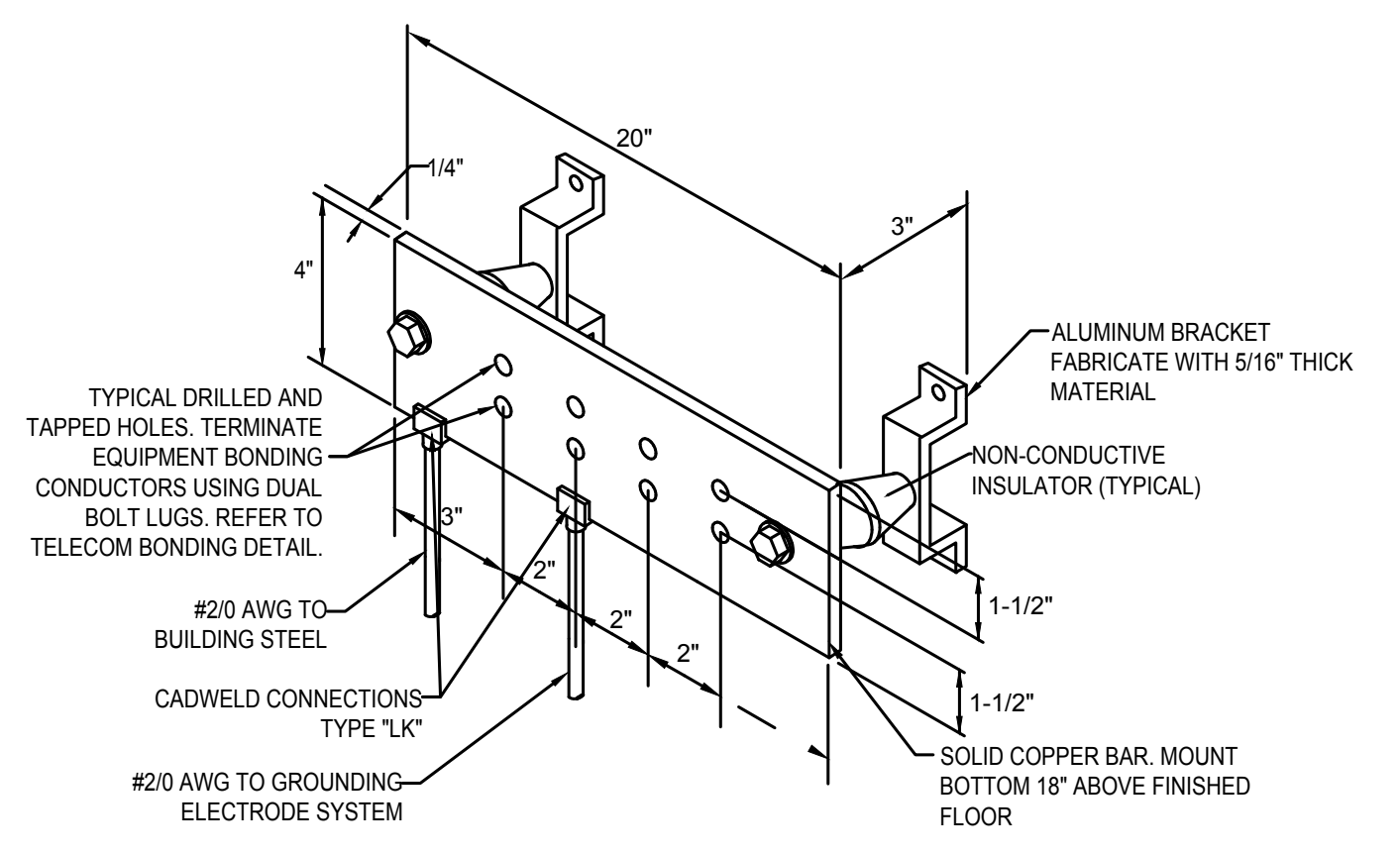
1 27 05 00 DEVICE ELEVATION DETAIL
SCALE: 3/32" = 1'-0"



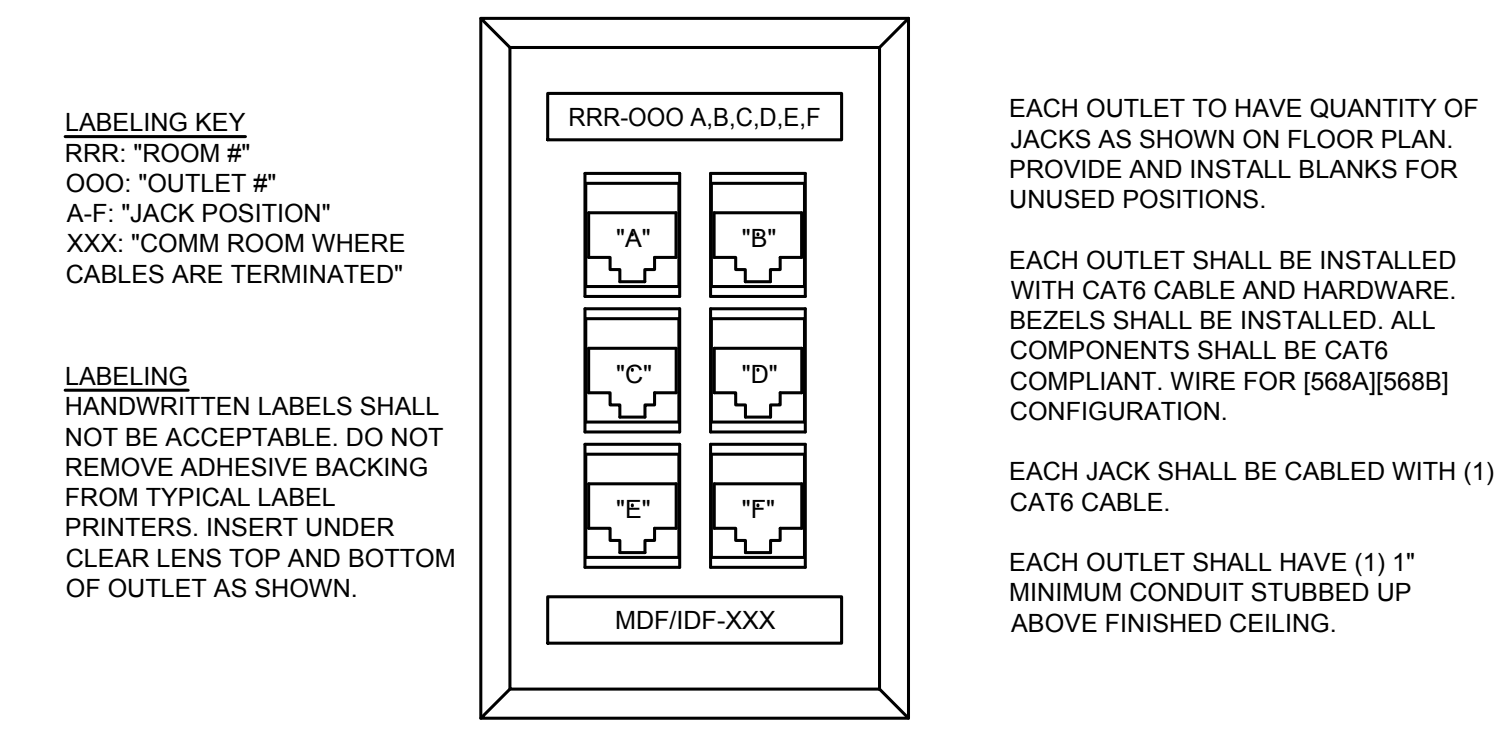
2 27 05 00 SURGE SUPPRESSION DETAIL
SCALE: 3/32" = 1'-0"



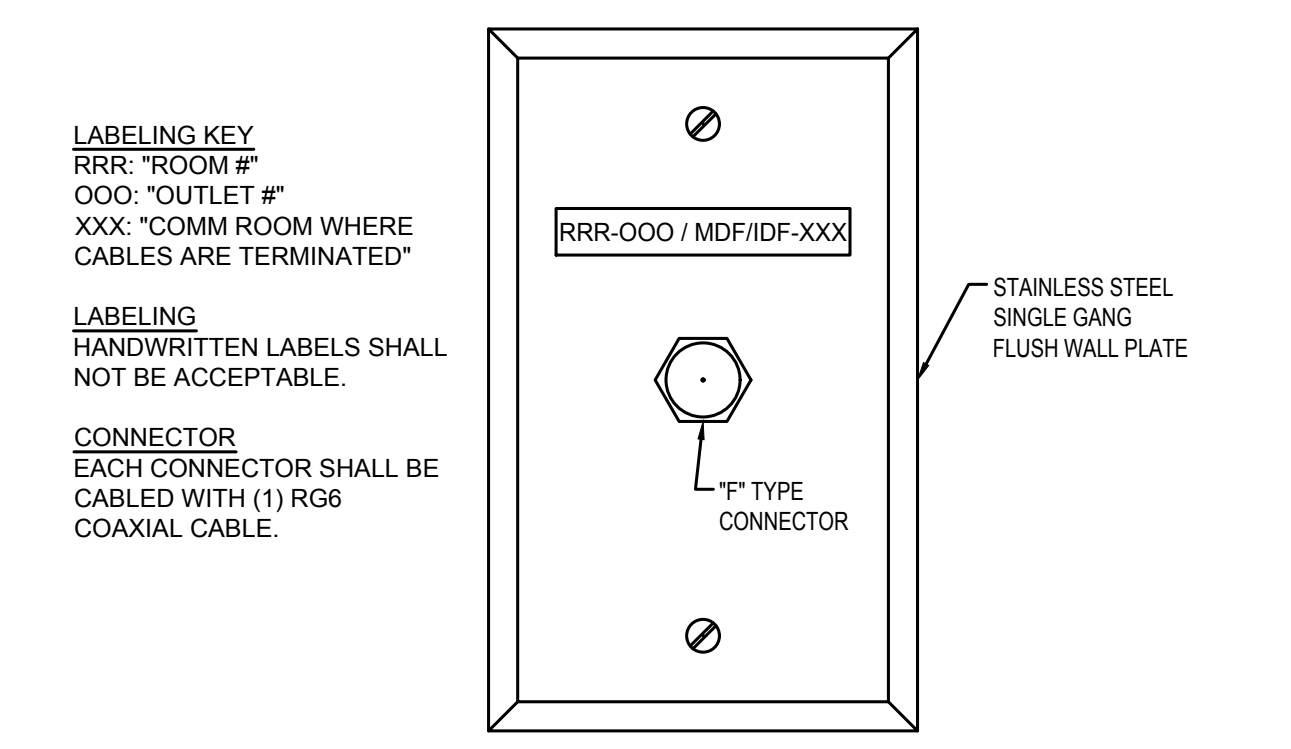
3 27 26 26 TELECOM BONDING DETAIL
SCALE: 3/32" = 1'-0"



4 27 26 26 GROUND BUS BAR DETAIL
SCALE: 3/32" = 1'-0"



5 27 26 26 VOICE DATA OUTLET DETAIL
SCALE: 3/32" = 1'-0"



6 27 58 00 TV OUTLET DETAIL
SCALE: 3/32" = 1'-0"

NOTES

GENERAL NOTES
1. REFER TO TELECOMMUNICATIONS GENERAL NOTES ON SHEET T001.

NOTES
1. DETAIL APPLIES TO ALL DIVISION 27 AND 28 SYSTEMS. MODIFY AS NECESSARY TO PROPERLY PROTECT SYSTEM, COMPLY WITH APPLICABLE CODE REQUIREMENTS, AND MEET MANUFACTURER'S RECOMMENDATIONS.
2. UNPROTECTED CONDUCTORS SHALL BE SEPARATED FROM PROTECTED CONDUCTORS AND ROUTED ON OPPOSITE SIDES OF TERMINAL CABINET.
3. GROUND CONDUCTORS SHALL BE AS SHORT AS POSSIBLE.
4. AVOID SHARP BENDS IN GROUND CONDUCTORS.
5. GROUND CONDUCTOR FROM BUILDING SERVICE SHALL BE MINIMUM #6 AWG.
6. SIZE TERMINAL CABINET TO ACCOMMODATE INSTALLED EQUIPMENT PLUS 20 PERCENT SPARE CAPACITY.
7. CONDUCTORS ENTERING CONTROL EQUIPMENT SHALL BE PROTECTED.

PROVIDE AND INSTALL AT TERMINAL CABINETS FOR SURGE SUPPRESSION EQUIPMENT. AT REMOTE TERMINAL CABINETS AND OTHER LOCATIONS WHERE 120 VAC POWER IS PROVIDED.
#6 JACKETED COPPER GROUND WIRE TO GROUND BUS BAR.
120 VAC INPUT POWER CIRCUIT.

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DETAILS

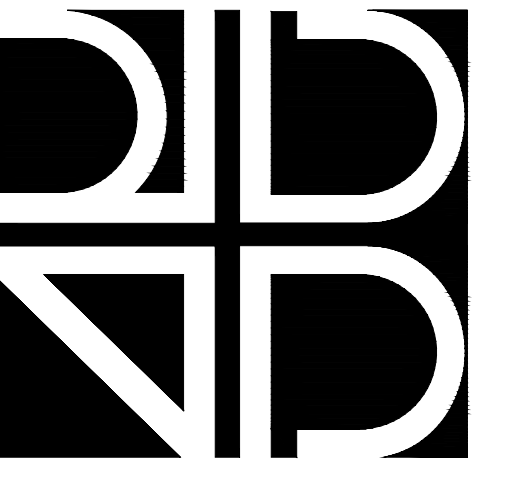
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T901

NOTES

- GENERAL NOTES
 1. REFER TO TELECOMMUNICATIONS GENERAL NOTES ON SHEET T001.



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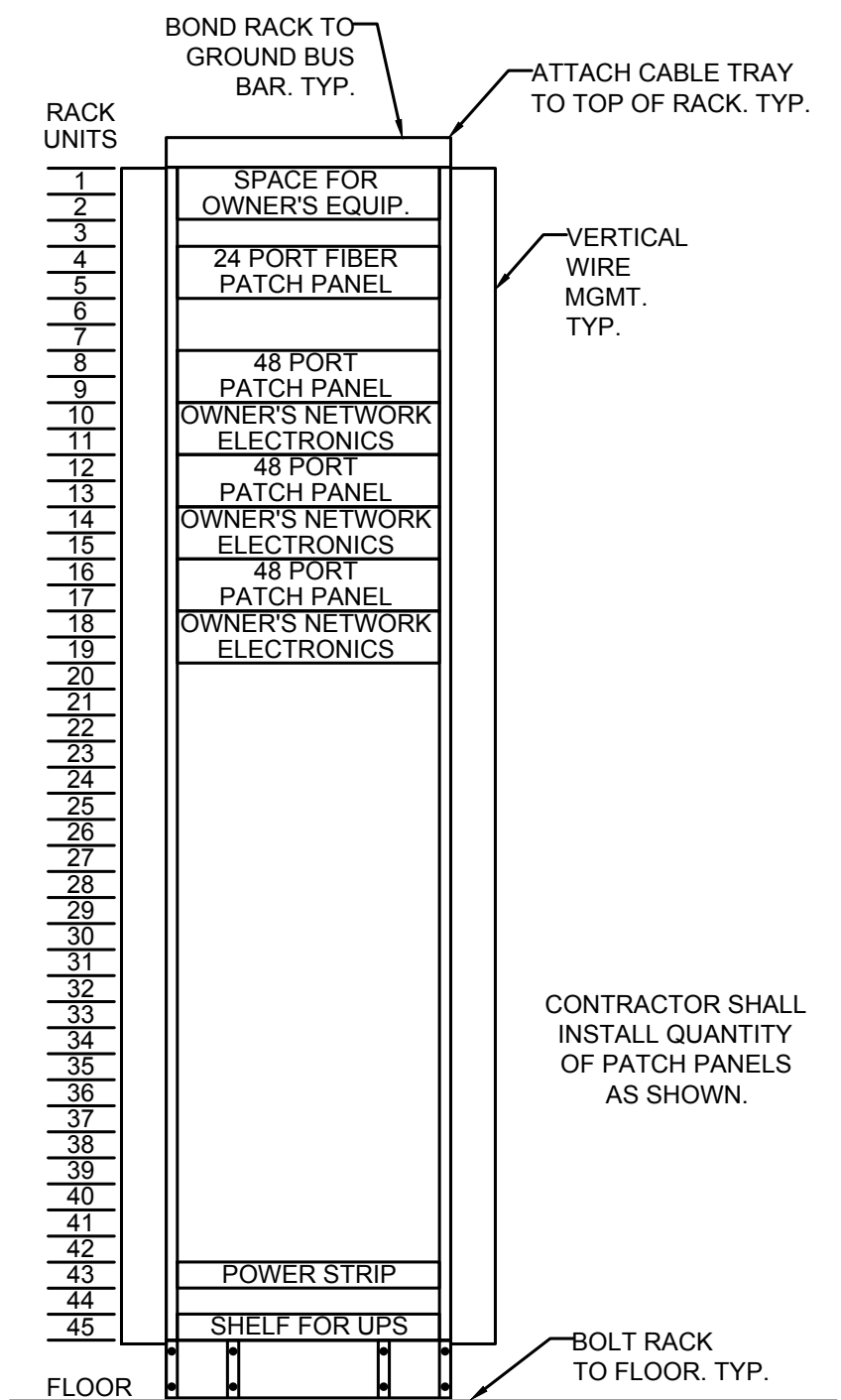
T902

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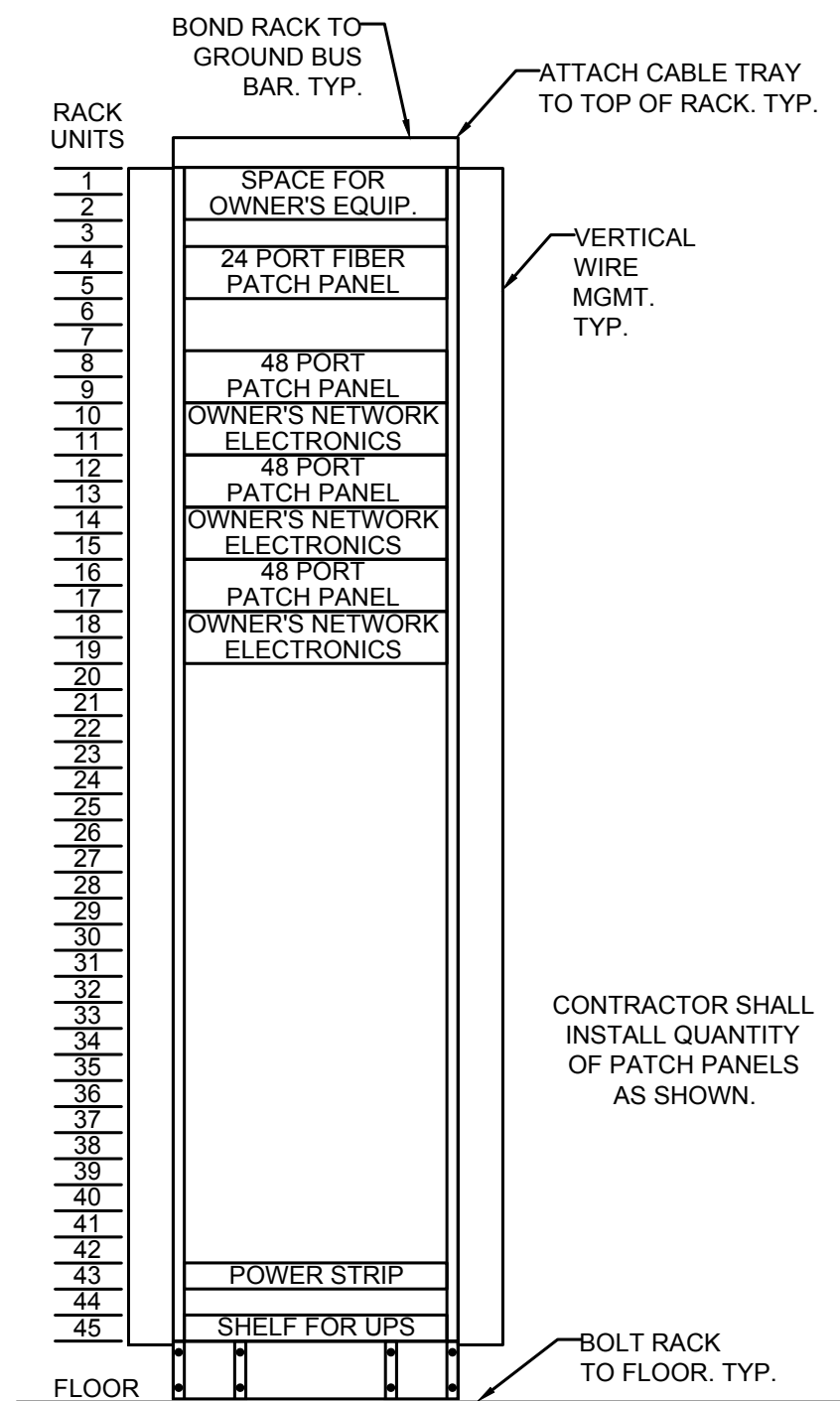
CABLE PURPOSE	CABLE DESCRIPTION
INITIATION DEVICE CIRCUIT (IDC)	TWO (2) CONDUCTOR, JACKETED, 14 AWG, FPL RATED
VISUAL NOTIFICATION APPLIANCE CIRCUIT (NAC)	TWO (2) CONDUCTOR, JACKETED, 12 AWG, FPL RATED
AUDIBLE NOTIFICATION APPLIANCE CIRCUIT (NAC)	TWO (2) CONDUCTOR, JACKETED, 16 AWG, FPL RATED
ADDRESSABLE SIGNALING LINE CIRCUIT (SLC)	TWO (2) CONDUCTOR, JACKETED, 18 AWG, FPL RATED
MAGNETIC DOOR HOLD OPEN CIRCUIT	TWO (2) CONDUCTOR, JACKETED, 14 AWG, FPL RATED
24 VDC POWER CIRCUIT	TWO (2) CONDUCTOR, JACKETED, 18 AWG, FPL RATED
DUCT DETECTOR INDICATOR SWITCH	FOUR (4) CONDUCTOR, JACKETED, 14 AWG, FPL RATED
SERIAL LINE CIRCUIT TO ANNUNCIATOR PANEL	TWO (2) CONDUCTOR, JACKETED, 14 AWG, FPL RATED
WET LOCATION RATED SITE SERIAL LINE CIRCUIT	TWO (2) CONDUCTOR, JACKETED, 14 AWG, FPL RATED
WET LOCATION RATED INITIATION DEVICE CIRCUIT (IDC)	TWO (2) CONDUCTOR, 14 AWG, THWN RATED
WET LOCATION RATED SIGNALING LINE CIRCUIT (SLC)	TWO (2) CONDUCTOR, 14 AWG, THWN RATED
WET LOCATION RATED NOTIFICATION APPLIANCE CIRCUIT (NAC)	TWO (2) CONDUCTOR, 14 AWG, THWN RATED
WET LOCATION RATED 24 VDC POWER CIRCUIT	TWO (2) CONDUCTOR, 14 AWG, THWN RATED

- NOTES:
 1. FIRE ALARM SYSTEM CABLING SHALL BE AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER
 2. CONDUCTOR SIZES SHOWN ARE MINIMUM. CONTRACTOR SHALL INCREASE SIZE AS NECESSARY FOR THE INSTALLED LOAD.
 3. MAINTAIN SEPARATION OF CIRCUITS AS REQUIRED BY MANUFACTURER OR CODE.
 4. FPL DENOTES FIRE POWER LIMITED CABLE.
 5. FPL RATED CABLE SHALL BE USED IN RISER APPLICATIONS. FPLP RATED CABLE SHALL BE USED WHERE FREE-WIRED IN PLENUM SPACES.

3 27 31 00 FIRE ALARM CABLE REQ. SCALE: 3/32" = 1'-0"



2 27 26 26 IDF (254) RACK ELEVATION SCALE: 3/32" = 1'-0"



1 27 26 26 IDF (241) RACK ELEVATION SCALE: 3/32" = 1'-0"

	ACTIVATE BUILDING EVACUATION	ACTIVATE SUPERVISORY SIGNAL	ACTIVATE TROUBLE SIGNAL	PRINT-OUT OF SIGNAL	TRANSMIT AT REMOTE ANNUNCIATOR	TRANSMIT AT CENTRAL STATION	RELEASE MAGNETICALLY LOCKED DOORS	UNLOCK ELECTRICALLY LOCKED DOORS	SHUT-DOWN OF MUSIC SYSTEM	INITIATE FLOOR RECALL	INITIATE ELEVATOR SUPERVISORY	INITIATE SMOKE CONTROL SYSTEM	INITIATE AIR HANDLERS
MANUAL FIRE ALARM BOXES	X			X	X	X	X	X	X	X			
AREA SMOKE DETECTORS	X			X	X	X	X	X	X	X			X
DUCT SMOKE DETECTORS	X	X		X	X	X	X	X	X	X			X
SMOKES AT DOOR HOLD-OPENS	X			X	X	X	X	X	X	X			X
GUEST ROOM SMOKE DETECTORS	X	X		X	X	X	X	X	X	X			X
SMOKE DETECTORS IN ELEV. MACH. RM.	X			X	X	X	X	X	X	X			X
HEAT DETECTORS IN ELEV. MACH. RM.	X			X	X	X	X	X	X	X			X
ELEVATOR LOBBY SMOKE DETECTORS	X			X	X	X	X	X	X	X			X
HEAT DETECTORS	X			X	X	X	X	X	X	X			X
SPINKLER WATER FLOW	X			X	X	X	X	X	X	X			X
SPRINKLER TAMPER SWITCH	X			X	X	X	X	X	X	X			X
FIRE PUMP CONTROLLER	X			X	X	X	X	X	X	X			X
FIRE ALARM TROUBLE	X	X		X	X	X	X	X	X	X			X
FIRE ALARM SUPERVISORY	X			X	X	X	X	X	X	X			X
SUPPRESSION SYS SUPERVISORY	X			X	X	X	X	X	X	X			X
CARBON MONOXIDE DETECTORS	X			X	X	X	X	X	X	X			X
EMERGENCY GENERATOR SIGNALS	X			X	X	X	X	X	X	X			X
KITCHEN AND SPECIAL SUPPRESSION	X			X	X	X	X	X	X	X			X

3 27 31 00 FIRE ALARM SEQUENCE OF OPS. SCALE: 3/32" = 1'-0"



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