

# WSU- DETROIT- UGL-W360

## ACADEMIC ENGAGEMENT HUB

5155 GULLEN MALL  
DETROIT, MI 48202

### ARCHITECT

STUCKY VITALE ARCHITECTS  
27172 WOODWARD AVENUE  
ROYAL OAK, MICHIGAN 48067  
(248) 546-6700

### MECH/PLUMB/ELEC ENGINEER

MA ENGINEERING  
180 HIGH OAK RD  
BLOOMFIELD HILLS, MI 48304  
(248) 258-1610

#### PROJECT INFORMATION

**WSU PROJECT NUMBER:**  
096-353617

**PROJECT DESCRIPTION**  
RENOVATION OF PORTION OF EXISTING LIBRARY TO INCLUDE: NEW OFFICE  
BLOCKS, FURNITURE, FINISHES.

#### APPLICABLE CODES

2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS (MRC)  
2015 MICHIGAN MECHANICAL CODE (MMC)  
2018 MICHIGAN PLUMBING CODE (MPC)  
2015 MICHIGAN ENERGY CODE (MEC)  
2013 ANSI/ASHRAE/IES 90.1  
2017 NATIONAL ELECTRICAL CODE (NEC)  
2015 NFPA 101 LIFE SAFETY CODE

#### BARRIER FREE REQUIREMENTS:

2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (DOJ)  
MBC-2015, CHAPTER 11  
ICC / ANSI 117.1 - 2009, EXCEPT SECTION 611 & 707

#### CHAPTER 3 - USE AND OCCUPANCY CLASSIFICATION

BUSINESS: B  
UNIVERSITY

#### CHAPTER 9 - FIRE PROTECTION SYSTEMS

AUTOMATIC SPRINKLER SYSTEMS: <EXISTING TO REMAIN>  
FIRE ALARM AND DETECTION SYSTEMS: <EXISTING TO REMAIN>

#### SHEET DESIGNATION

DRAWINGS ARE NUMBERED ACCORDING TO THE FOLLOWING CONVENTIONS:

**A001**

DRAWING SEQUENCE NUMBER

DRAWING TYPE DESIGNATOR

G	GENERAL	0	GENERAL, LEGENDS, SCHEDULES
LS	LIFE SAFETY	1	PLANS
AD	ARCHITECTURAL	2	REFLECTED CEILING PLANS
	DEMOLITION	6	INTERIOR ELEVATIONS
A	ARCHITECTURAL	7	INTERIOR AND MILLWORK DETAILS
F	FINISH INFORMATION		
AE	EQUIPMENT INFORMATION		
P	PLUMBING		
M	MECHANICAL		
E	ELECTRICAL		

SHEET INDEX - GENERAL			
DWG #	DRAWING NAME	ISSUED FOR	DATE
G001	COVER SHEET, GENERAL INFORMATION, DRAWING INDEX	ADDENDUM #1	09.28.23
G002	STANDARD MOUNTING HEIGHTS, MATERIAL LEGEND, PARTITION AND DOOR SCHEDULES AND DETAILS	ADDENDUM #1	09.28.23

DRAWINGS: 2

SHEET INDEX - LIFE SAFETY			
DWG #	DRAWING NAME	ISSUED FOR	DATE
LS101	CODE INFORMATION AND FLOOR LIFE SAFETY PLAN - EGRESS PLANS	ADDENDUM #1	09.28.23

DRAWINGS: 1

SHEET INDEX - ARCHITECTURAL DEMOLITION			
DWG #	DRAWING NAME	ISSUED FOR	DATE
AD100	ARCHITECTURAL DEMOLITION PLANS	ADDENDUM #1	09.28.23
AD200	ARCHITECTURAL DEMOLITION REFLECTED CEILING PLAN	ADDENDUM #1	09.28.23

DRAWINGS: 2

SHEET INDEX - ARCHITECTURAL			
DWG #	DRAWING NAME	ISSUED FOR	DATE
A110	FIRST LEVEL CONSTRUCTION PLAN	ADDENDUM #1	09.28.23
A111	ENLARGED RECEPTION AREA PLAN	ADDENDUM #1	09.28.23
A210	FIRST LEVEL REFLECTED CEILING PLAN	ADDENDUM #1	09.28.23
A610	INTERIOR ELEVATIONS	ADDENDUM #1	09.28.23
A611	INTERIOR ELEVATIONS	ADDENDUM #1	09.28.23
A701	INTERIOR AND MILLWORK DETAILS	ADDENDUM #1	09.28.23
A702	INTERIOR AND MILLWORK DETAILS	ADDENDUM #1	09.28.23

DRAWINGS: 7

SHEET INDEX - FINISH			
DWG #	DRAWING NAME	ISSUED FOR	DATE
F000	FINISH SCHEDULE AND LEGEND	ADDENDUM #1	09.28.23
F110	FIRST LEVEL FINISH PLAN	ADDENDUM #1	09.28.23

DRAWINGS: 2

SHEET INDEX - ARCHITECTURAL EQUIPMENT			
DWG #	DRAWING NAME	ISSUED FOR	DATE
AE110	FIRST LEVEL EQUIPMENT PLAN	ADDENDUM #1	09.28.23
AE111	FIRST LEVEL FURNITURE PLAN	ADDENDUM #1	09.28.23

DRAWINGS: 2

SHEET INDEX - MECHANICAL			
DWG #	DRAWING NAME	ISSUED FOR	DATE
FP110	FIRE PROTECTION PLAN- LEVEL 1	ADDENDUM #1	09.28.23
M000	MECHANICAL SYMBOLS LIST INDEX AND NOTES	ADDENDUM #1	09.28.23
M110	HVAC PLAN- LEVEL 1	ADDENDUM #1	09.28.23
M300	MECHANICAL SCHEDULES AND DETAILS	ADDENDUM #1	09.28.23
M400	MECHANICAL SPECIFICATIONS	ADDENDUM #1	09.28.23
MD110	DEMOLITION HVAC PLAN- LEVEL 1	ADDENDUM #1	09.28.23

DRAWINGS: 6

SHEET INDEX - ELECTRICAL			
DWG #	DRAWING NAME	ISSUED FOR	DATE
E001	ELECTRICAL LEGEND, SHEET INDEX AND DETAILS	ADDENDUM #1	09.28.23
E002	ELECTRICAL SPECIFICATION	ADDENDUM #1	09.28.23
E003	ELECTRICAL PANEL SCHEDULES-1	ADDENDUM #1	09.28.23
E110	LIGHTING PLAN - LEVEL 1	ADDENDUM #1	09.28.23
E210	POWER PLAN - LEVEL 1	ADDENDUM #1	09.28.23
ED110	DEMOLITION LIGHTING PLAN - LEVEL 1	ADDENDUM #1	09.28.23
ED210	DEMOLITION POWER PLAN - LEVEL 1	ADDENDUM #1	09.28.23

DRAWINGS: 7

**NOTE:**  
THESE CONSTRUCTION DRAWINGS WERE PREPARED FOR COMPLIANCE WITH THE MICHIGAN CONSTRUCTION CODES IN EFFECT AT THE TIME OF PERMIT SUBMITTAL. ALL ENGINEERS, CONTRACTORS AND SUPPLIERS INVOLVED WITH THIS PROJECT SHALL COMPLY WITH THE SAME CODES, ISSUED AND APPROVED CODE MODIFICATIONS AND/OR CITY CODE AUTHORITY CONSTRUCTION BOARDS OF APPEALS RULINGS AND WHENEVER REQUIRED SHALL PROVIDE SHOP DRAWINGS AND SUBMITTALS CLEARLY DESCRIBING COMPLIANCE TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE FOR REVIEW AND APPROVAL.

#### PROJECT ALTERNATE PRICING:

**ALT #1:** CONTRACTOR TO PRICE OUT REPLACING CARPET IN ALL NEW OFFICES TO MATCH CPT-1.

**ALT #2:** CONTRACTOR TO PRICE OUT CONFERENCE ROOM BUILD OUT. INCLUDES NEW WALLS, DOORS, FURNITURE, AND FINISHES.


**ALT #3:** CONTRACTOR TO PROVIDE PRICING ON REPLACING ALL 2X4 CEILING LIGHTS IN OPEN STUDY AREA WITH LED FIXTURES TO MATCH NEW FIXTURES IN OFFICES.

**ALT #4:** CONTRACTOR TO PRICE OUT PROVIDING FINAL DESIGN, PRINT, AND INSTALL VINYL GRAPHIC ON THE RECEPTION GLASS WALL.

**ALT #5:** CONTRACTOR TO PROVIDE PRICING ON PAINTING EXISTING WALLS OF OPEN STUDY AREA.





**ALT #6:** CONTRACTOR TO PROVIDE PRICING TO REPLACE GYP. WALL AND PUNCHED WINDOW WITH ALL GLASS WALL FLOOR TO CEILING

#### SYMBOL LEGEND

 ENLARGED CALLOUT TAG


 INTERIOR ELEVATION TAG


 EXTERIOR ELEVATION TAG

 DETAIL NUMBER  
 VIEW TITLE  
 VIEW SCALE  
 SHEET NUMBER

 ROOM NAME  
 ROOM TAG


 FLOOR NAME  
 ELEV. 100'-0"

 DATUM WORKPOINT


 COLUMN GRIDS


 NUMBERS DESIGNATE VERTICAL COLUMN LINES


 LETTERS DESIGNATE HORIZONTAL COLUMN LINES

 SQUARE DESIGNATE EXISTING COLUMN GRID

 DOOR TAGS



 NEW DOOR TAG DESIGNATION

 EXISTING DOOR TAG DESIGNATION (ONLY IF EXISTING DOOR TO BE MODIFIED)

 PARTITION TAG

 KEYNOTE TAG

 EQUIPMENT TAG

 SHEET REF FOR DRAWING CONTINUATION  
 MATCH LINE

#### ABBREVIATION LEGEND

& L @	AND ANGLE AT	± or 0 ±	CENTERLINE DIAMETER PLUS OR MIN
ACCESS.	ACCESSIBILITY	N	NORTH
ACOUS.	ACOUSTICAL	NIC	NOT IN CONTRACT
ACT	ACOUSTICAL CEILING TILE	NOM	NOMINAL
A.D.	AREA DRAIN	NTS	NOT TO SCALE
ADJ	ADJUSTABLE	O/C	ON CENTER
A.F.F.	ABOVE FINISH FLOOR	OFC	OFFICE
AL	ALUMINUM	OPNG	OPENING
ANOD.	ANODIZED	OPP	OPPOSITE
ARCH.	ARCHITECTURAL or ARCHITECT	OVFD	OVERFLOW DRAIN
ASPH.	ASPHALT	PL	PLATE
BD.	BOARD	PLAM	PLASTIC LAMINATE
BF	BARRIER FREE	PLAS	PLASTER
BLDG.	BLOCKING	PNT	PAINT
BL'G.	BOTTOM	PLYWD	PLYWOOD
BOT.	BRICK	PREFAB	PREFABRICATED
BR	CABINET	PFN	PREFINISH or PREFINISHED
CAB.	CEMENT	PROJ	PROJECTION
CEM.	C.J.	PT	POINT
C.J.	CONTROL JOINT	R.	RISER
CLG	CEILING	RCP	REFLECTED CEILING PLAN
C.F.M.F.	COLD FORMED METAL FRAMING	R.C.	ROOF CONDUCTOR
C.O.	CLEAN OUT	RD	ROOF DRAIN
CLOS.	CLOSED	REINF	REINFORCING
CLR	CLEAR	REQ'D	REQUIRED
COL	COLUMN	RESIL	RESILIENT
CONC.	CONCRETE	RFG	ROOFING
C.G.	CORNER GUARD	RM	ROOM
CONST.	CONSTRUCTION	R.S.	ROOF SUMP
CONT.	CONTINUOUS	SAN	SANITARY
COR.	CORRIDOR	SC	SOLID CORE
CORR.	CORRUGATED	SCHED	SCHEDULE
CPT	CARPET	SHT	SHEET
C.T.	CERAMIC TILE	SIM	SIMILAR
CTSK.	COUNTER SUNK	SPEC	SPECIFICATIONS
CW	CURTAIN WALL	SO	SQUARE
D.F.	DRINKING FOUNTAIN	ST-STL.	STAINLESS STEEL
DET.	DETAIL	SS	SOLID SURFACE
DIA.	DIAMETER	ST	STONE
DIM.	DIMENSION	STD	STANDARD
DN.	DOWN	STL	STEEL
D.O.	DOOR OPENING	STN	STAIN
DR.	DOOR	STOR	STORAGE
D.S.	DOWN SPOUT	STRUCT	STRUCTURAL or STRUCTURE
DWG.	DRAWING	SUSP	SUSPENDED
DWR.	DRAWER	SYM	SYMMETRICAL
EA	EACH	T.	TREAD
E.J.	EXPANSION JOINT	T&B	TOP AND BOTTOM
EL	ELEVATION	TERR.	TERRAZZO
ELEC.	ELECTRICAL	T.O.C.	TOP OF CURB
ELEV.	ELEVATOR	T&G	TONGUE AND GROOVE
E.O.S./EOS	EDGE OF SLAB	THK	THICK
E.O.D./EOD	EDGE OF DECK	THRES.	THRESHOLD
EP	ELECTRICAL PANEL	T.O.P.	TOP OF PARAPET
EPXY	EPOXY	TA	TOILET ACCESSORY
EQ.	EQUAL	TV	TELEVISION
EQPM	EQUIPMENT	T.O.W.	TOP OF WALL
E.W.	EACH WAY	TOS / T.O.S.	TOP OF STEEL
EXIST. / EX	EXISTING	TYP.	TYPICAL
EXP.	EXPOSED	U/C	UNDERCUT
EXT.	EXTERIOR	U.N.O.	UNLESS NOTED OTHERWISE
FA	FIRE ALARM	U.S.K.	UTILITY SINK
FD	FLOOR DRAIN	V.B.	VAPOR BARRIER
FON	FOUNDATION	VCT	VINYL COMPOSITION TILE
FIRE	FIRE EXTINGUISHER	VERT.	VERTICAL
FEC	FIRE EXTINGUISHER CABINET	VEST	VESTIBULE
FHC	FIRE HOSE CABINET	VF	VINYL FLOORING
FIN	FINISH	V.I.F.	VERIFY IN FIELD
FLO.	FLOOR	W	WIDTH
F.O.	FACE OF	W/	WITH
F.O.S.	FACE OF STUD	WB	WALL BASE
FFRF	FIREPROOF	W.C.	WATER CLOSET
FR	FRAME	WC	WALLCOVERING
FRP	FIBERGLASS REINFORCED PANEL	WD	WOOD
FRT	FIRE RETARDANT TREATED	WO	WITHOUT
F.S.	FULL SIZE	WR	WATER RESISTANT
FT.	FOOT or FEET	WSCOT.	WAINSCOT
FTG.	FOOTING	WT.	WEIGHT
FUR	FURRING	W.W.F.	WELDED WIRE FABRIC
GA.	GAUGE		
GALV.	GALVANIZED		
G.B.	GRAB BAR		
GFRC.	GLASS FIBER REINFORCED CONCRETE		
GL.	GLASS		
GYP.	GYPSPUM		
H.B.	HOSE BIBB		
H.C.	HOLLOW CORE		
HDWD	HARDWOOD		
HDWE	HARDWARE		
HM	HOLLOW METAL		
HORIZ.	HORIZONTAL		
HR	HOUR		
HGT	HEIGHT		
INSUL	INSULATION		
IMP	INSULATED METAL PANEL		
IMWP	INSULATED METAL WALL PANEL		
INT	INTERIOR		
J.C.	JANITOR'S CLOSET		
JT.	JOINT		
KIT.	KITCHEN		
LAV	LAVATORY		
LG	LENGTH		
L.L.V.	LONG LEG VERTICAL		
LT	LIGHT		
LVT	LUXURY VINYL TILE		
MAX	MAXIMUM		
MECH	MECHANICAL		
MTL	METAL		
MFR.	MANUFACTURER		
MIN.	MINIMUM		
MISC.	MISCELLANEOUS		
M.O.	MASONRY OPENING		



STUCKY VITALE ARCHITECTS  
27172 WOODWARD AVENUE  
ROYAL OAK, MI 48067-0925

P. 248.546.6700

F. 248.546.8454

WWW.STUCKYVITALE.COM

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WSU- DETROIT-  
UGL-W360 ACADEMIC  
ENGAGEMENT HUB

5155 GULLEN MALL  
DETROIT, MI 48202

Key Plan:

Issued for

BIDS 09.15.23

FURNITURE BIDS 09.19.23

ADDENDUM #1 09.28.23

Drawn by :

JML

Checked by :

ARR

Sheet Title :

COVER SHEET, GENERAL  
INFORMATION, DRAWING  
INDEX

Project No. :

2023.111

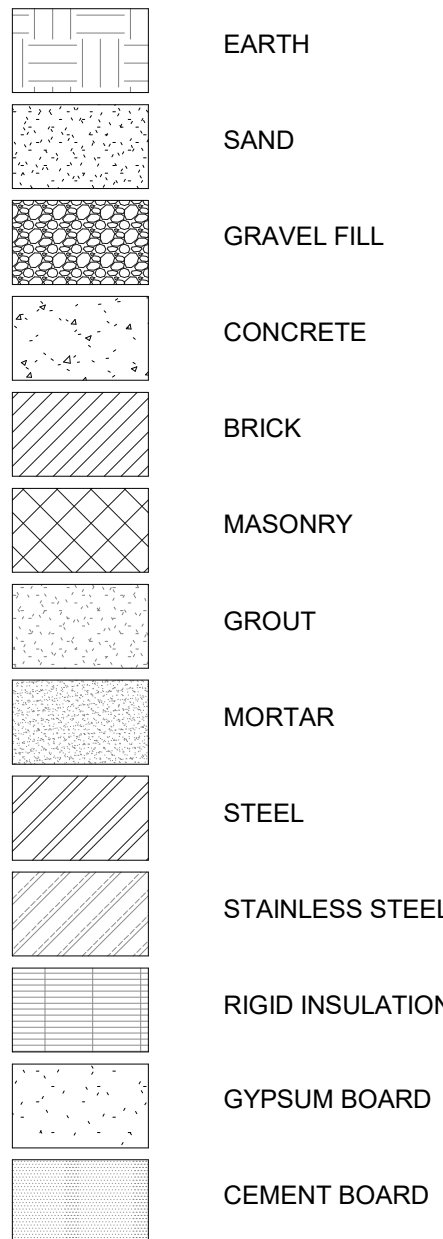
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G001

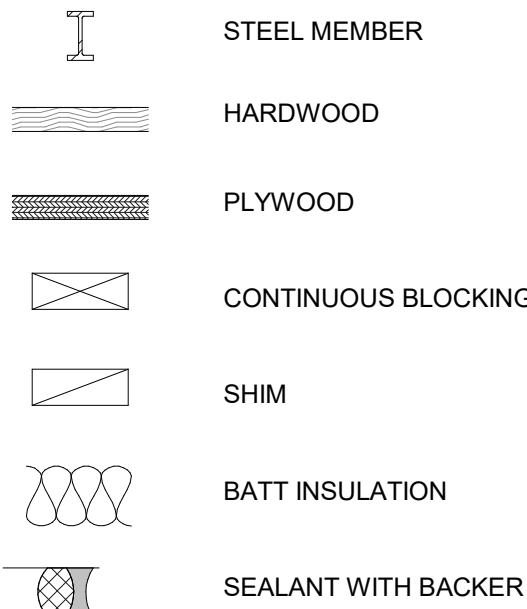


MATERIAL LEGEND

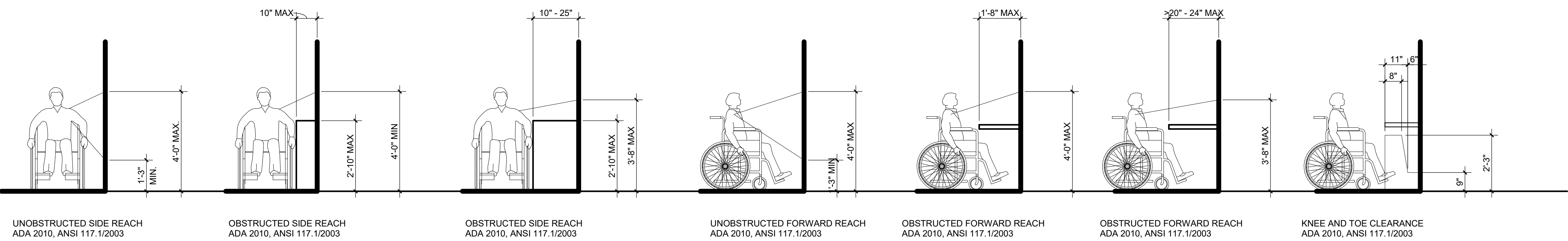
HATCH PATTERNS



TYPICAL DETAIL SYMBOLS



TYPICAL MOUNTING LEGEND



GLASS TYPES	
CODE	DESCRIPTION
GL-1	1/2" CLEAR TEMPERED MONOLITHIC GLASS

HARDWARE SCHEDULE:

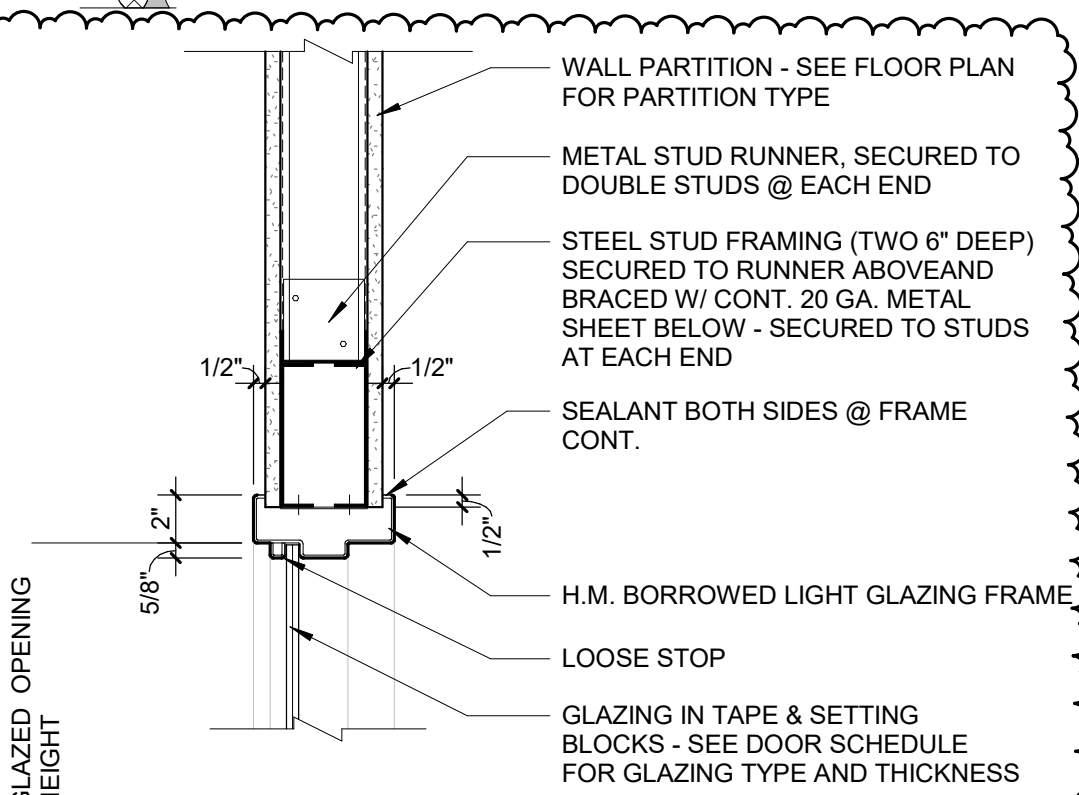
Hardware Set 1 – Office Lock [Lock / Unlock]

3	ea.	Butt Hinge CB81 4 1/2" x 4 1/2" NRP	26D PBB
1	ea.	Office Lock MR 161 ADA BJSJ SFL	32D PDQ
1	ea.	SFIC Final Core – By WSU	26D WSU
1	ea.	Wall Stop 1407	26D Don Jo

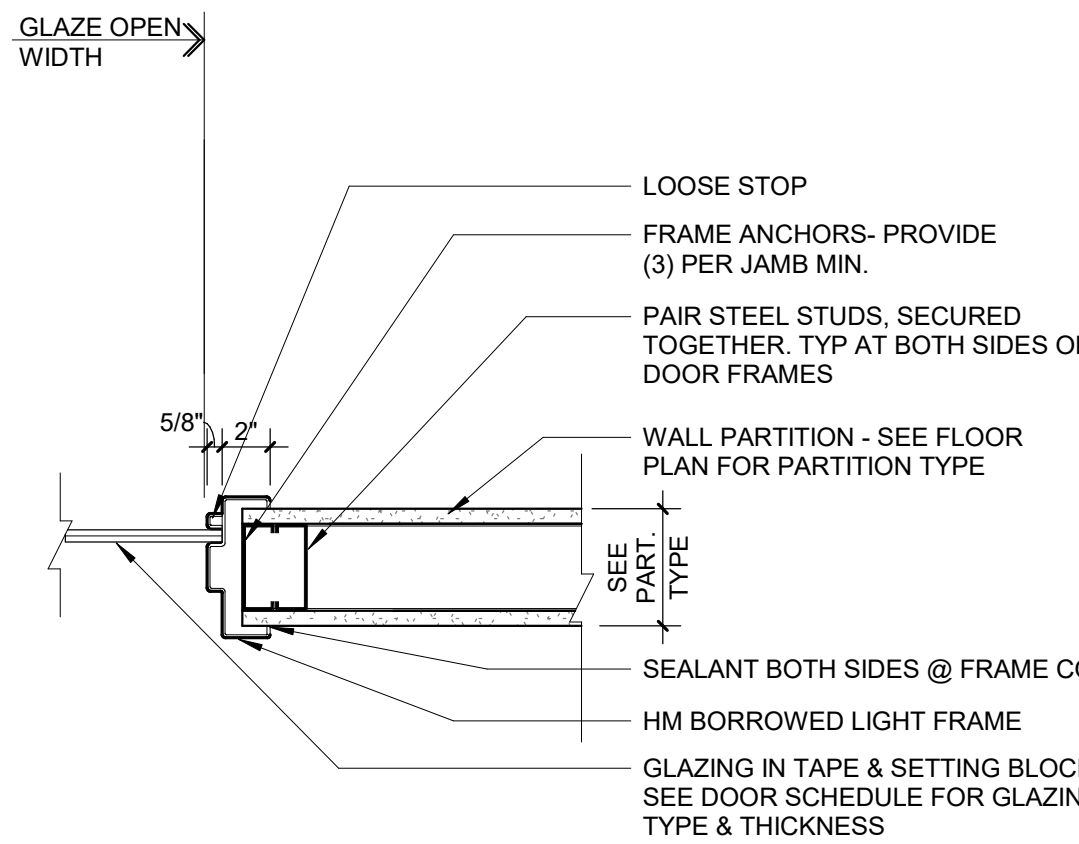
Hardware Set 2 – Classroom Lock [Lock / Unlock]

3	ea.	Butt Hinge CB81 4 1/2" x 4 1/2" NRP	26D PBB
1	ea.	Classroom Lock MR 148 BJSJ SFL	32D PDQ
1	ea.	SFIC Final Core – By WSU	26D WSU
1	ea.	Wall Stop 1407	26D Don Jo

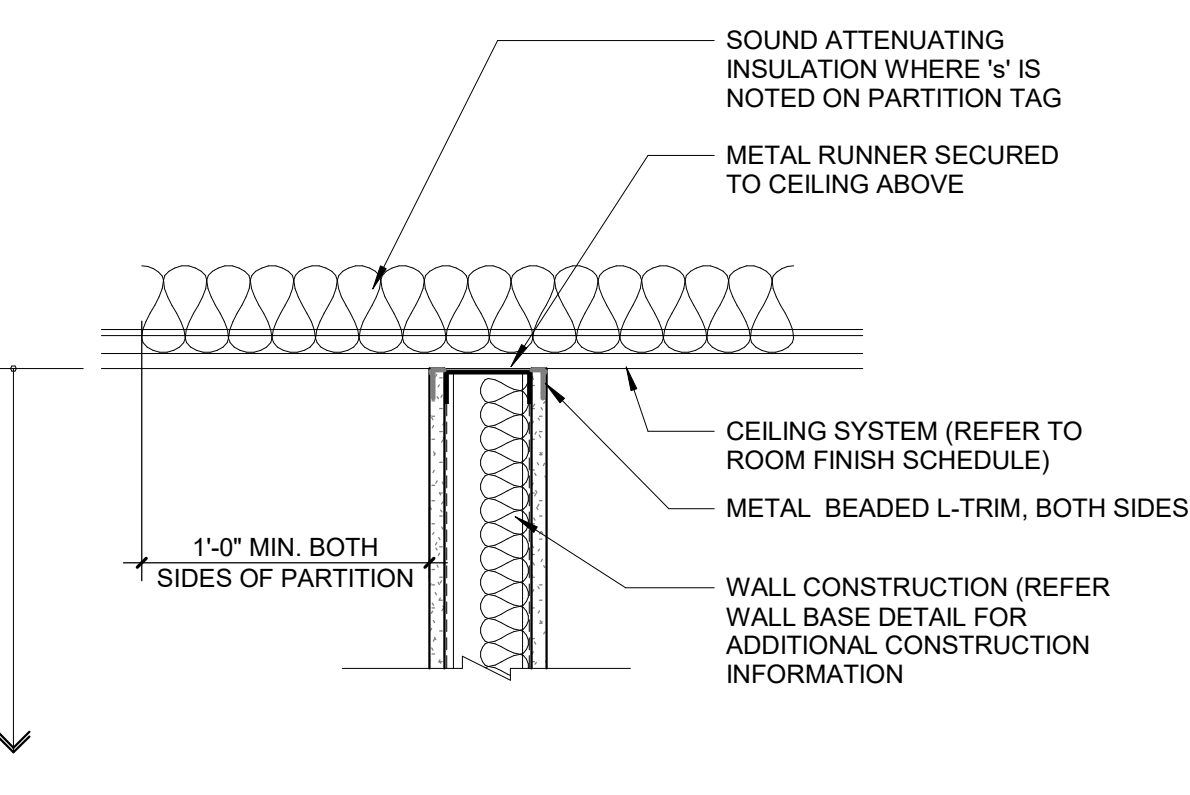
INTERIOR PARTITION SCHEDULE														
TYPE	DESCRIPTION	WIDTH		STUD	DET'L	DEPTH	THICK	SPACING	UL DESIGN			STC*		REMARKS
		NOMINAL	ACTUAL						1 HR	2 HR	OTHR	W/O	W/	
C2	1 GYP, BOTH SIDES ON 3 5/8" METAL STUDS	0' - 5"	4 7/8"	4 7/8" @ G002 9/G002	3 5/8"	30 MIL	16" O/C	U419	--	--	42	44		



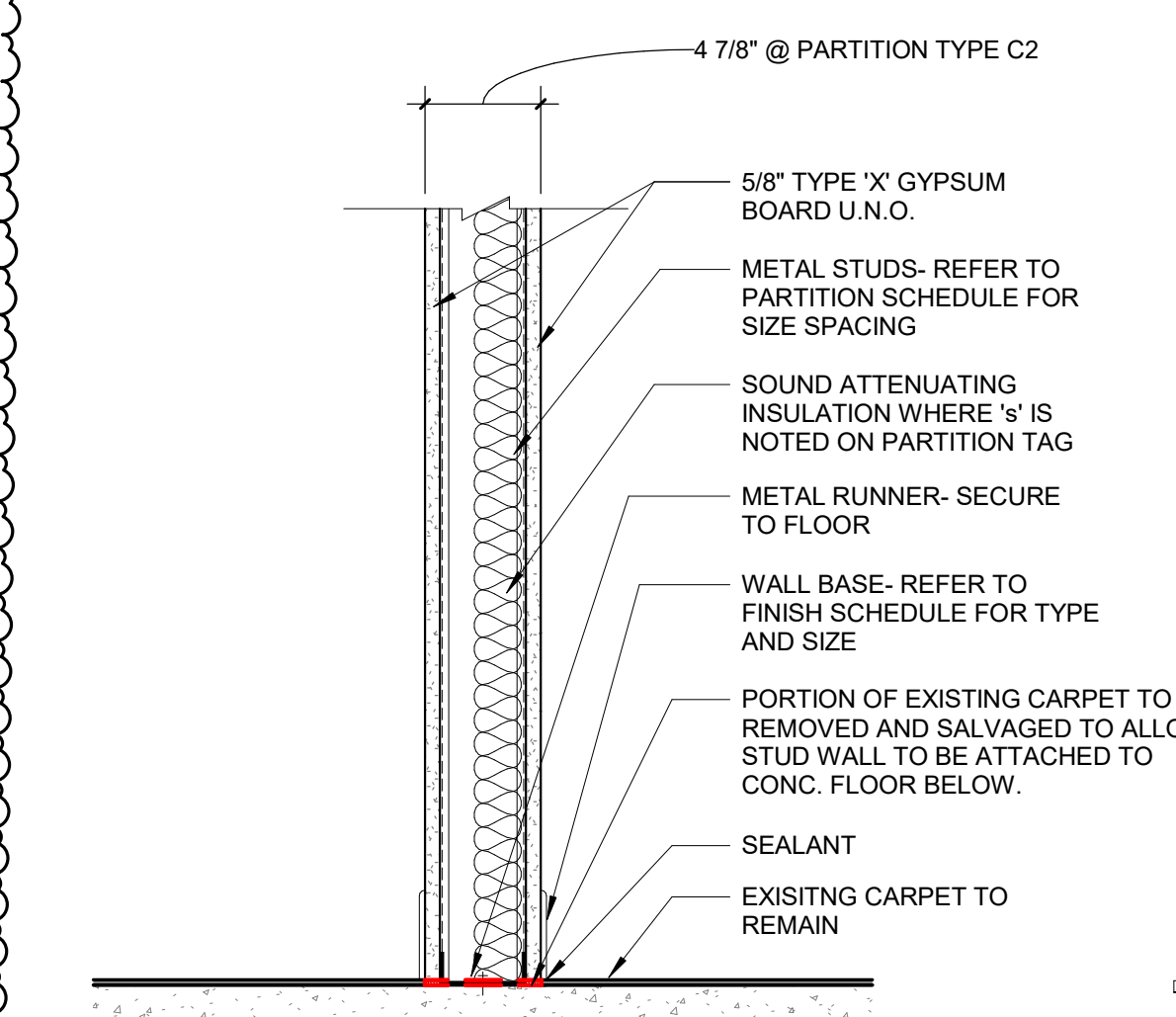
11  
G002  
1 1/2" = 1'-0"



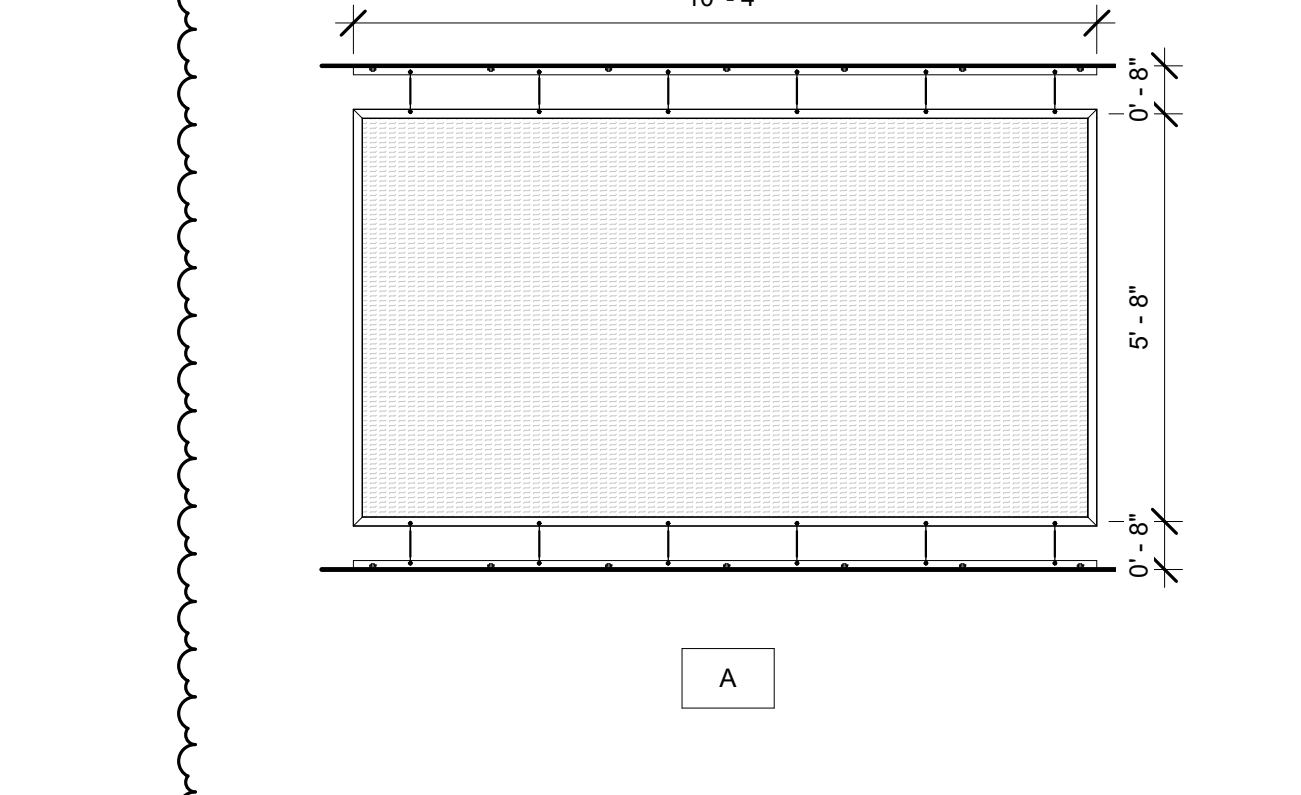
10  
G002  
1 1/2" = 1'-0"



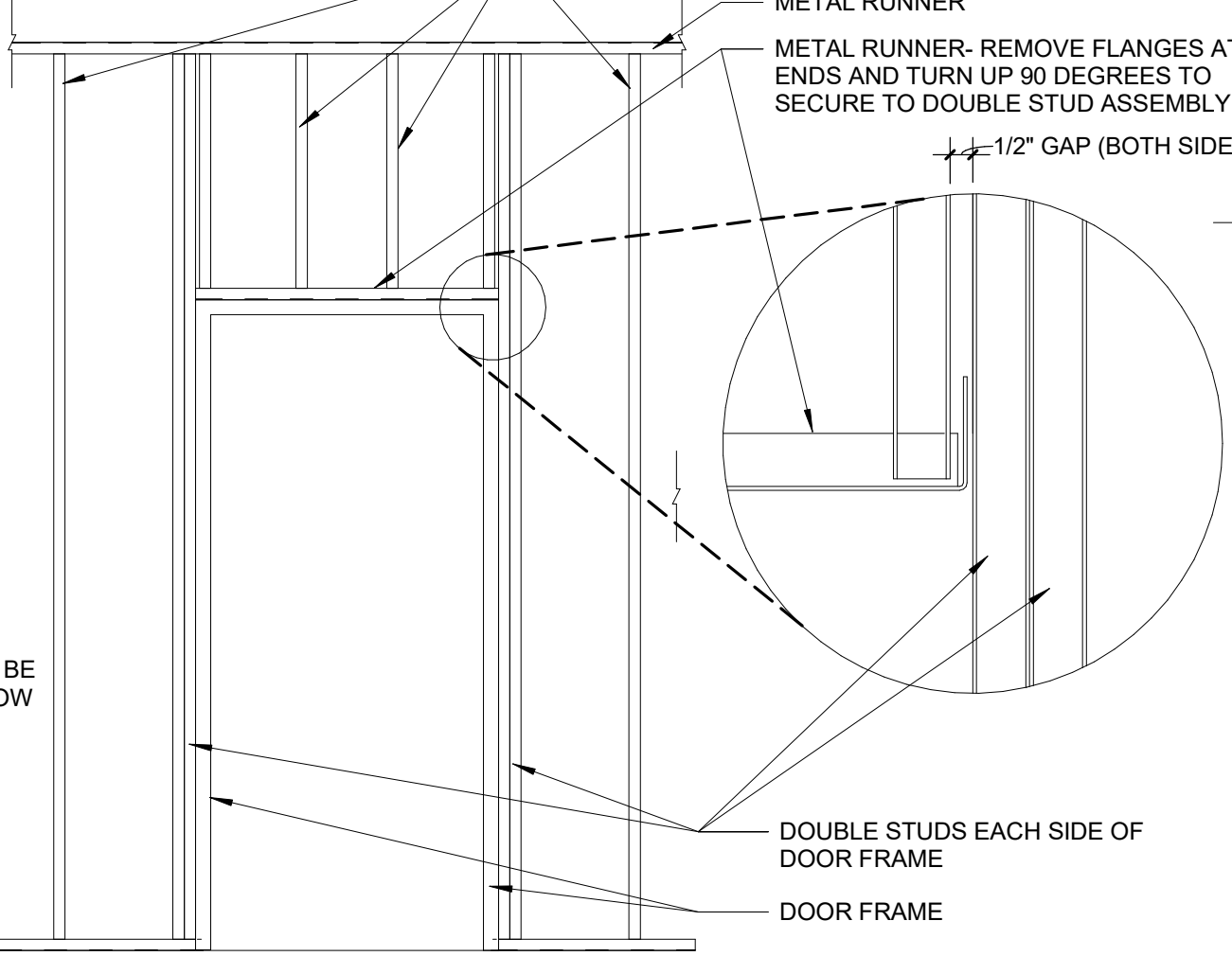
9  
G002  
1 1/2" = 1'-0"



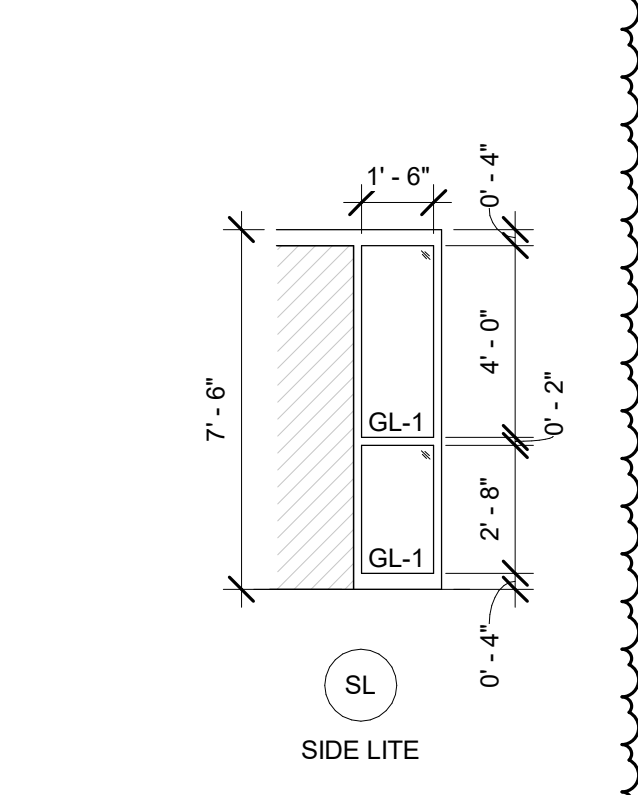
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G002  
1 1/2" = 1'-0"



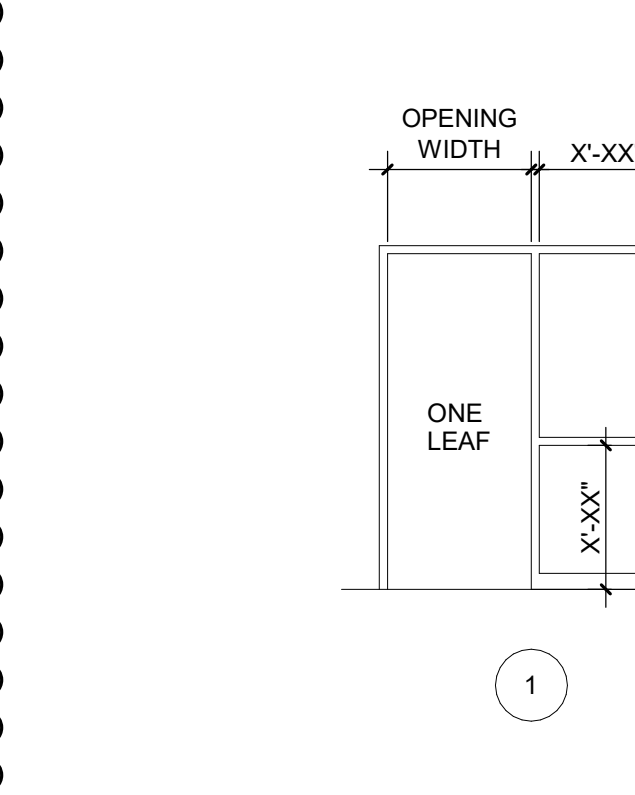
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G002  
3/8" = 1'-0"



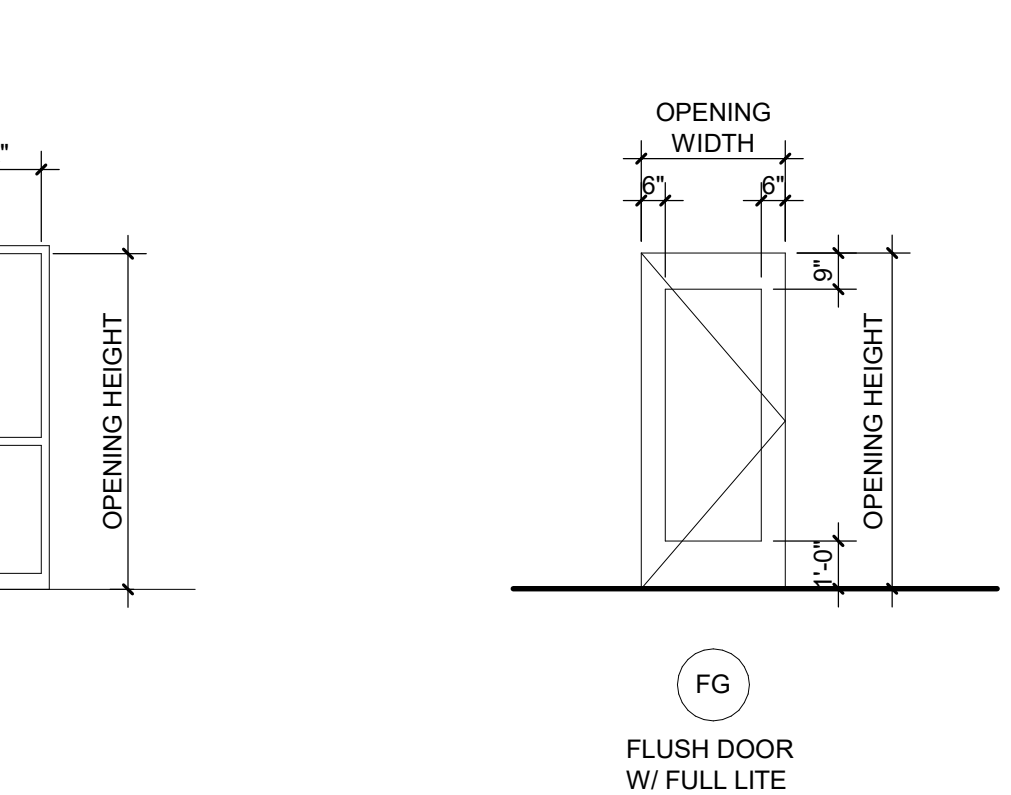
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G002  
1/2" = 1'-0"



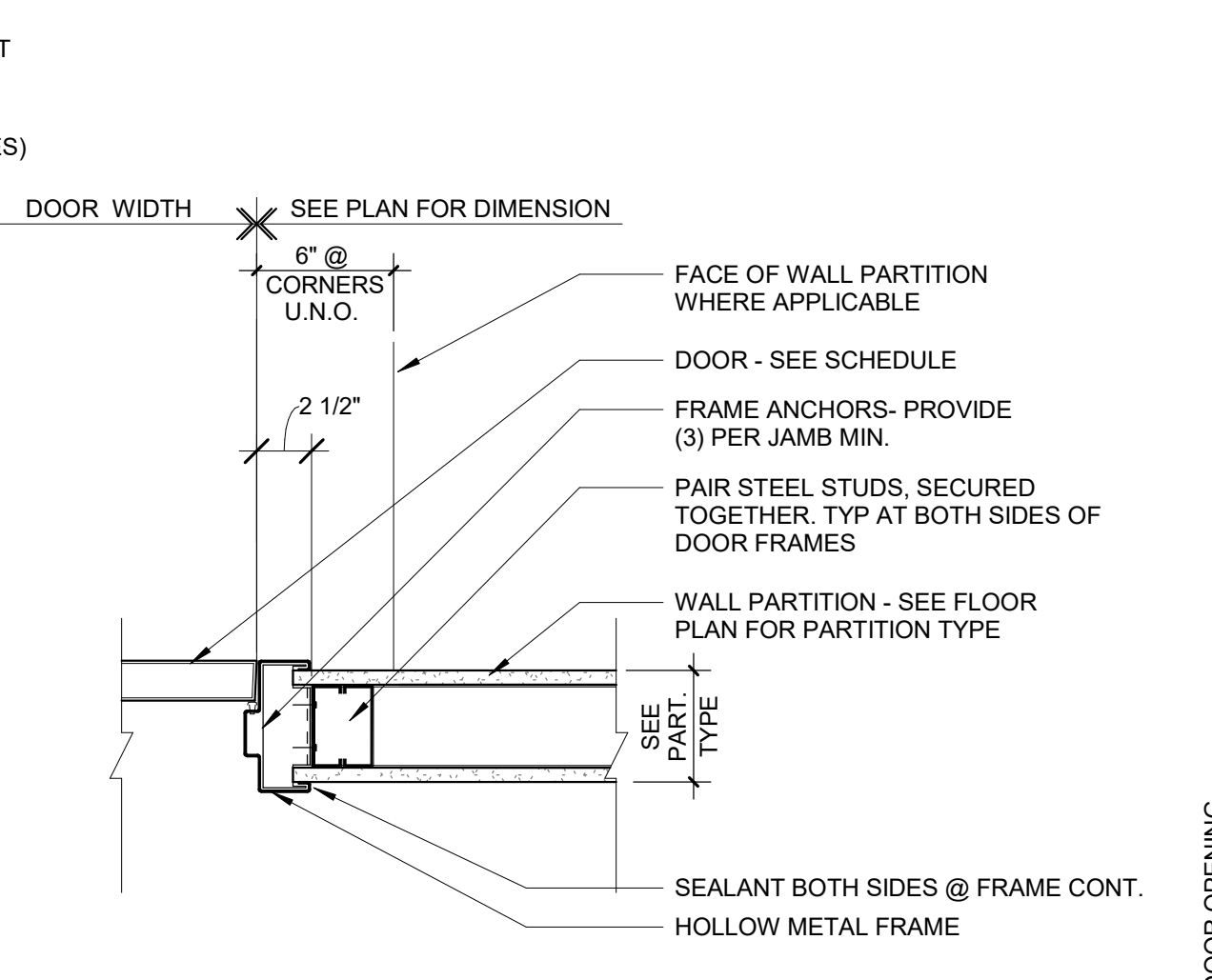
7  
G002  
1/4" = 1'-0"



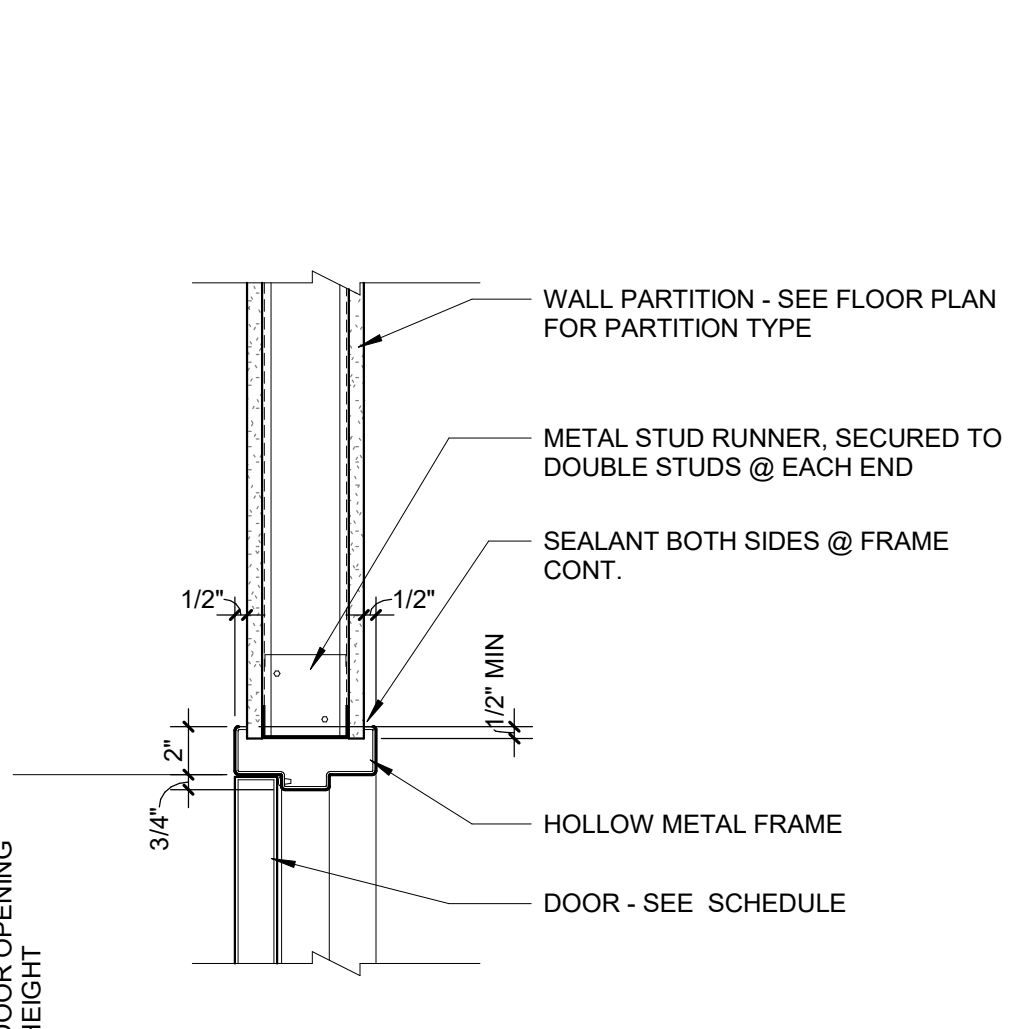
6  
G002  
1/4" = 1'-0"



5  
G002  
1/4" = 1'-0"



2  
G002  
1 1/2" = 1'-0"



1  
G002  
1 1/2" = 1'-0"



STUCKY VITALE ARCHITECTS  
27172 WOODWARD AVENUE  
ROYAL OAK, MI 48067-0925  
P. 248.546.6700  
F. 248.546.8454  
WWW.STUCKYVITALE.COM

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Key Plan:

Issued for

BIDS 09.15.23  
ADDENDUM #1 09.28.23

Drawn by :

CRB, JML

Checked by :

ARR

Sheet Title :

STANDARD MOUNTING  
HEIGHTS, MATERIAL LEGEND,  
PARTITION AND DOOR  
SCHEDULES AND DETAILS

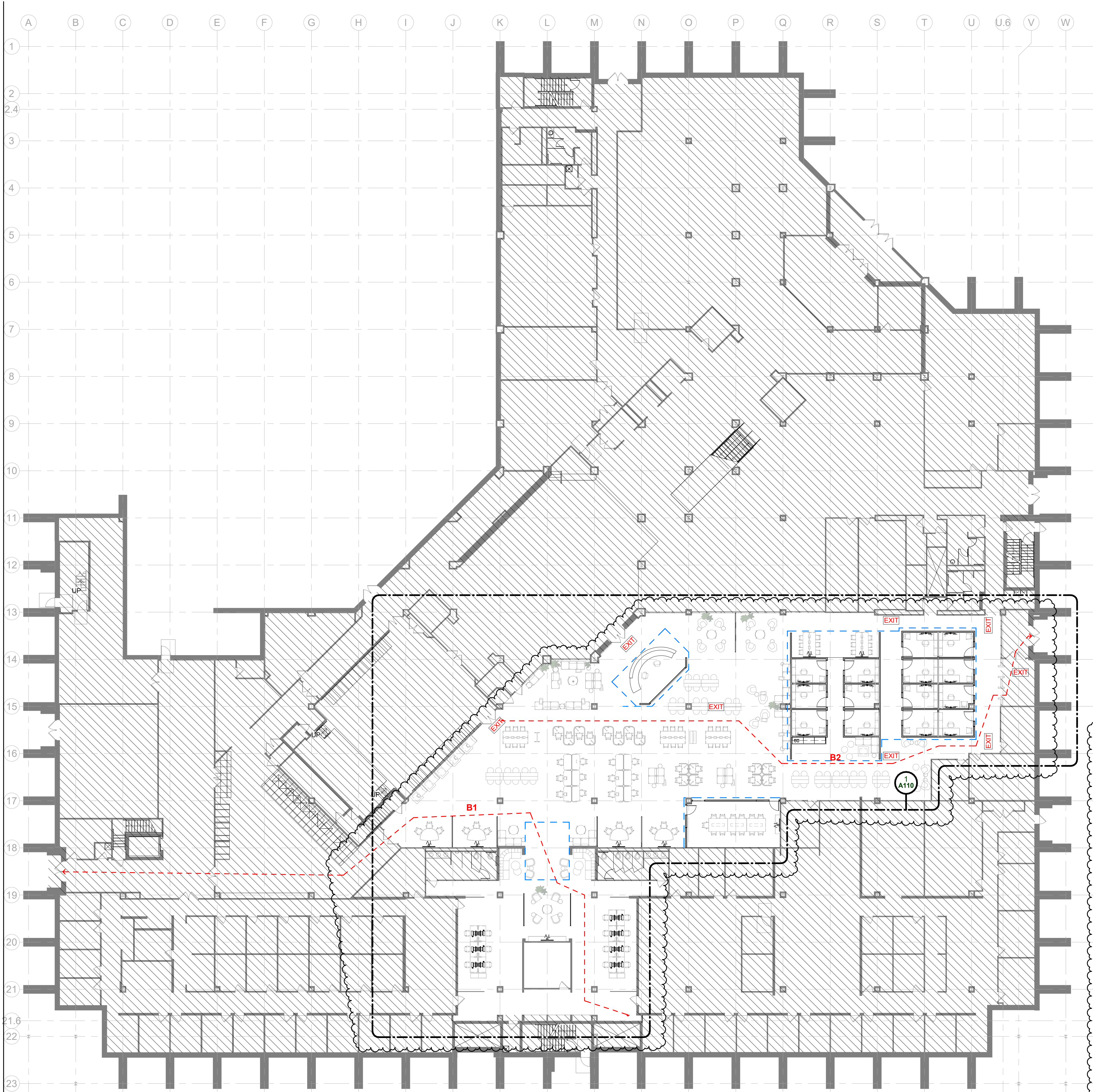
Project No. :

2023.111

Sheet No. :

G002





#### LIFE SAFETY LEGEND

- E1 TRAVEL DISTANCE
- RECOMMENDED DUST WALL LOCATION -COORDINATE WITH WSU
- LOCATION OF PORTABLE FIRE EXTINGUISHER
- EXIT SIGN

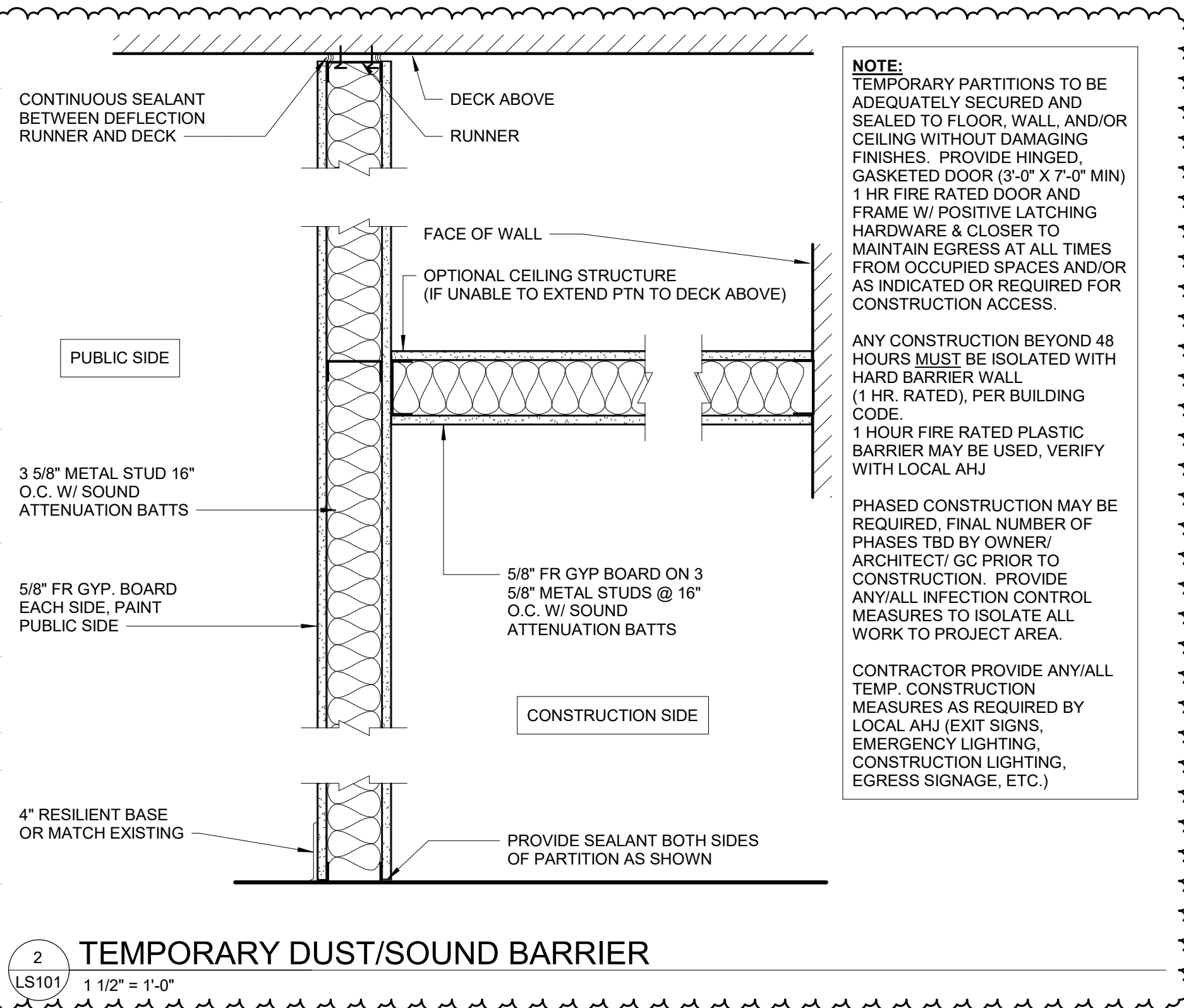
#### Egress Travel Distances

Egress Path	Travel Distance	Maximum Travel Distance	Over
B1	236' - 10"	300' - 0"	No
B2	200' - 0"	300' - 0"	No

NOTE:  
CONTRACTOR TO PROVIDE SMOKE/SOUND BARRIER AT ALL CONSTRUCTION LOCATIONS.

CONTRACTOR TO COORDINATE WITH WSU FOR CONSTRUCTION SCHEDULING AND LOCATION TO KEEP OCCUPANCY EGRESS PATHS ACCESSABLE DURING CONSTRUCTION.

NOTE:  
CONTRACTOR TO ENSURE THAT SPACE MEETS EXISTING FIRE EXTINGUISHER CODE AS SPECIFIED IN MBC, 2015 TABLE 906.3(1) - MINIMUM DISTANCE OF EXTINGUISHER = 75 FEET



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Key Plan:

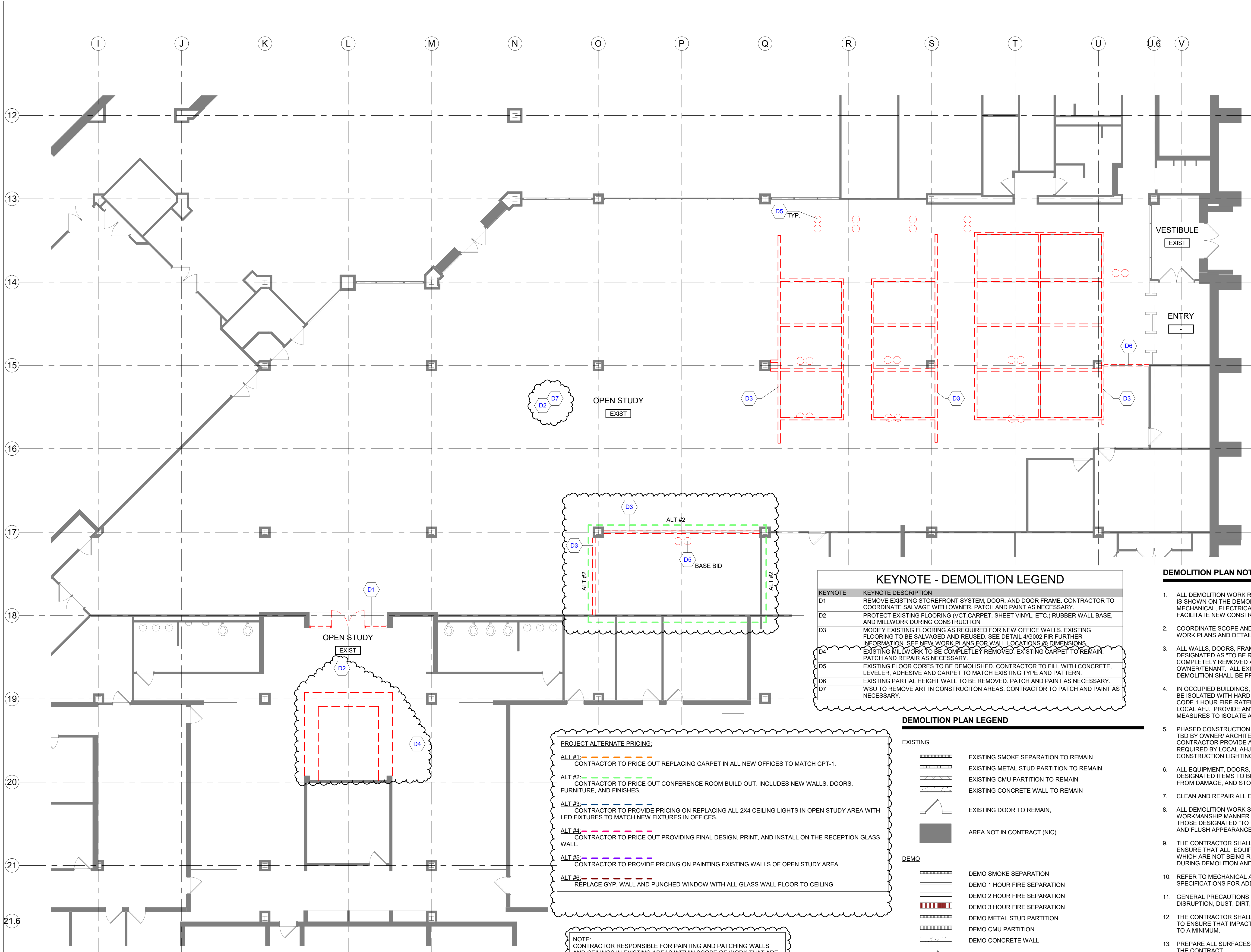
Issued for  
BIDS 09.15.23  
ADDENDUM #1 09.28.23

Drawn by :  
JML  
Checked by :  
ARR  
Sheet Title :  
CODE INFORMATION AND  
FLOOR LIFE SAFETY PLAN -  
EGRESS PLANS

Project No. :  
2023.111

Sheet No. :  
LS101





STUCKY VITALE ARCHITECTS  
27172 WOODWARD AVENUE  
ROYAL OAK, MI 48067-0925  
P. 248.546.6700  
F. 248.546.8454  
WWW.STUCKYVITALE.COM

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UGL-W360 ACADEMIC  
ENGAGEMENT HUB  
5155 GULLEN MALL  
DETROIT, MI 48202

Key Plan:

#### DEMOLITION PLAN NOTES

- ALL DEMOLITION WORK REQUIRED IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON THE DEMOLITION PLANS. THE INTENT IS TO REMOVE ALL MECHANICAL, ELECTRICAL, AND ARCHITECTURAL ITEMS AS REQUIRED TO FACILITATE NEW CONSTRUCTION.
- COORDINATE SCOPE AND EXTENT OF DEMOLITION WORK WITH NEW WORK PLANS AND DETAILS.
- ALL WALLS, DOORS, FRAMES, AND RELATED HARDWARE ASSEMBLIES DESIGNATED AS "TO BE REMOVED" (SHOWN AS DASHED LINES) SHALL BE COMPLETELY REMOVED AND DISPOSED OF AS DESIGNATED BY OWNER/TENANT. ALL EXISTING WALLS NOT DESIGNATED FOR DEMOLITION SHALL BE PROTECTED FROM DAMAGE AND REMAIN "AS-IS".
- IN OCCUPIED BUILDINGS, ANY CONSTRUCTION BEYOND 48 HOURS MUST BE ISOLATED WITH HARD BARRIER WALL (1 HR. RATED), PER BUILDING CODE. 1 HOUR FIRE RATED PLASTIC BARRIER MAY BE USED, VERIFY WITH LOCAL A/HJ. PROVIDE ANY/ALL DUST CONTROL AND INFECTION CONTROL MEASURES TO ISOLATE ALL WORK TO PROJECT AREA.
- PHASED CONSTRUCTION MAY BE REQUIRED, FINAL NUMBER OF PHASES TBD BY OWNER/ ARCHITECT/ GC PRIOR TO CONSTRUCTION. CONTRACTOR PROVIDE ANY/ALL TEMP. CONSTRUCTION MEASURES AS REQUIRED BY LOCAL A/HJ (EXIT SIGNS, EMERGENCY LIGHTING, CONSTRUCTION LIGHTING, EGRESS SIGNAGE, ETC.)
- ALL EQUIPMENT, DOORS, FRAMES, RELATED HARDWARE, AND DESIGNATED ITEMS TO BE SALVAGED SHALL BE REMOVED, PROTECTED FROM DAMAGE, AND STORED FOR REUSE.
- CLEAN AND REPAIR ALL EXISTING FLOOR FINISHES AS NECESSARY.
- ALL DEMOLITION WORK SHALL BE PERFORMED IN A NEAT AND WORKMANSHIP MANNER. ALL SURFACES ADJACENT TO AND ABUTTING TO THOSE DESIGNATED "TO BE REMOVED" SHALL BE LEFT WITH A SMOOTH AND FLUSH APPEARANCE.
- THE CONTRACTOR SHALL EXERCISE ALL REQUISITE CARE NECESSARY TO ENSURE THAT ALL EQUIPMENT, MATERIALS, FINISHES AND ASSEMBLIES WHICH ARE NOT BEING REMOVED ARE PROTECTED FROM DAMAGE DURING DEMOLITION AND SUBSEQUENT CONSTRUCTION OPERATIONS.
- REFER TO MECHANICAL AND ELECTRICAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL DEMOLITION INFORMATION.
- GENERAL PRECAUTIONS SHALL BE TAKEN AS NECESSARY TO HOLD ALL DISRUPTION, DUST, DIRT, NOISE, AND DEBRIS TO A MINIMUM.
- THE CONTRACTOR SHALL COORDINATE DEMOLITION WORK WITH OWNER TO ENSURE THAT IMPACTS ON THE BALANCE OF THE BUILDING ARE HELD TO A MINIMUM.
- PREPARE ALL SURFACES TO RECEIVE THE NEW WORK AND FINISHES OF THE CONTRACT.
- THE CONTRACTOR SHALL DESIGN, PROVIDE, INSTALL AND MAINTAIN ANY AND ALL TEMPORARY BRACING AS REQUIRED TO ENSURE THE STABILITY OF THE BUILDING ASSEMBLY AND/OR ANY SYSTEMS AND/OR SUB-ASSEMBLIES AND/OR SYSTEMS APPURTENANT THERETO UNTIL SAID ASSEMBLY AND/OR SUB-ASSEMBLIES ARE COMPLETE, SELF-SUPPORTING AND/OR STABLE.

KEYNOTE	KEYNOTE DESCRIPTION
D1	REMOVE EXISTING STOREFRONT SYSTEM, DOOR, AND DOOR FRAME. CONTRACTOR TO COORDINATE SALVAGE WITH OWNER. PATCH AND PAINT AS NECESSARY.
D2	PROTECT EXISTING FLOORING (VCT, CARPET, SHEET VINYL, ETC.) RUBBER WALL BASE, AND MILLWORK DURING CONSTRUCTION
D3	MODIFY EXISTING FLOORING AS REQUIRED FOR NEW OFFICE WALLS. EXISTING FLOORING TO BE SALVAGED AND REUSED. SEE DETAIL 4/G002 FIR FURTHER INFORMATION. SEE NEW WORK PLANS FOR WALL LOCATIONS @ DIMENSIONS.
D4	EXISTING MILLWORK TO BE COMPLETELY REMOVED. EXISTING CARPET TO REMAIN. PATCH AND REPAIR AS NECESSARY.
D5	EXISTING FLOOR CORES TO BE DEMOLISHED. CONTRACTOR TO FILL WITH CONCRETE, LEVELER, ADHESIVE AND CARPET TO MATCH EXISTING TYPE AND PATTERN.
D6	EXISTING PARTIAL HEIGHT WALL TO BE REMOVED. PATCH AND PAINT AS NECESSARY.
D7	WSU TO REMOVE ART IN CONSTRUCTION AREAS. CONTRACTOR TO PATCH AND PAINT AS NECESSARY.

#### DEMOLITION PLAN LEGEND

##### EXISTING

- EXISTING SMOKE SEPARATION TO REMAIN
- EXISTING METAL STUD PARTITION TO REMAIN
- EXISTING CMU PARTITION TO REMAIN
- EXISTING CONCRETE WALL TO REMAIN
- EXISTING DOOR TO REMAIN.
- AREA NOT IN CONTRACT (NIC)

##### DEMO

- DEMO SMOKE SEPARATION
- DEMO 1 HOUR FIRE SEPARATION
- DEMO 2 HOUR FIRE SEPARATION
- DEMO 3 HOUR FIRE SEPARATION
- DEMO METAL STUD PARTITION
- DEMO CMU PARTITION
- DEMO CONCRETE WALL
- DEMO DOOR

PROJECT ALTERNATE PRICING:
ALT #1: CONTRACTOR TO PRICE OUT REPLACING CARPET IN ALL NEW OFFICES TO MATCH CPT-1.
ALT #2: CONTRACTOR TO PRICE OUT CONFERENCE ROOM BUILD OUT. INCLUDES NEW WALLS, DOORS, FURNITURE, AND FINISHES.
ALT #3: CONTRACTOR TO PROVIDE PRICING ON REPLACING ALL 2X4 CEILING LIGHTS IN OPEN STUDY AREA WITH LED FIXTURES TO MATCH NEW FIXTURES IN OFFICES.
ALT #4: CONTRACTOR TO PRICE OUT PROVIDING FINAL DESIGN, PRINT, AND INSTALL ON THE RECEPTION GLASS WALL.
ALT #5: CONTRACTOR TO PROVIDE PRICING ON PAINTING EXISTING WALLS OF OPEN STUDY AREA.
ALT #6: REPLACE GYP. WALL AND PUNCHED WINDOW WITH ALL GLASS WALL FLOOR TO CEILING

NOTE:  
CONTRACTOR RESPONSIBLE FOR PAINTING AND PATCHING WALLS  
AND CEILINGS IN EXISTING AREAS WITHIN SCOPE OF WORK THAT ARE  
DAMAGED.

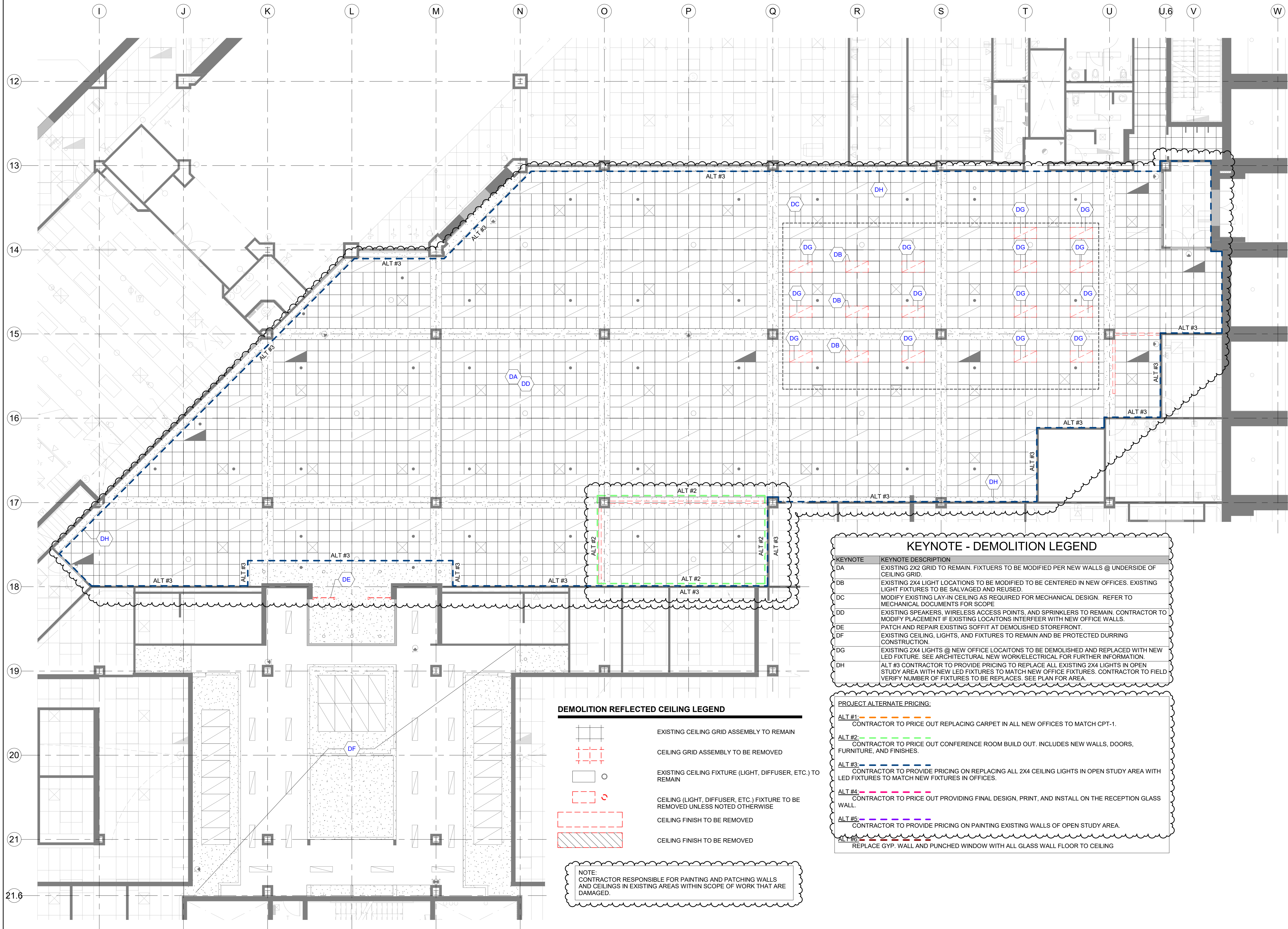
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ARCHITECTURAL DEMOLITION  
PLANS

Project No. :  
2023.111

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AD100

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#### DEMOLITION REFLECTED CEILING LEGEND

	EXISTING CEILING GRID ASSEMBLY TO REMAIN
	CEILING GRID ASSEMBLY TO BE REMOVED
	EXISTING CEILING FIXTURE (LIGHT, DIFFUSER, ETC.) TO REMAIN
	CEILING (LIGHT, DIFFUSER, ETC.) FIXTURE TO BE REMOVED UNLESS NOTED OTHERWISE
	CEILING FINISH TO BE REMOVED
	CEILING FINISH TO BE REMOVED

NOTE:  
CONTRACTOR RESPONSIBLE FOR PAINTING AND PATCHING WALLS  
AND CEILINGS IN EXISTING AREAS WITHIN SCOPE OF WORK THAT ARE  
DAMAGED.

#### KEYNOTE - DEMOLITION LEGEND

KEYNOTE	KEYNOTE DESCRIPTION
DA	EXISTING 2X2 GRID TO REMAIN. FIXTURES TO BE MODIFIED PER NEW WALLS @ UNDERSIDE OF CEILING GRID.
DB	EXISTING 2X4 LIGHT LOCATIONS TO BE MODIFIED TO BE CENTERED IN NEW OFFICES. EXISTING LIGHT FIXTURES TO BE SALVAGED AND REUSED.
DC	MODIFY EXISTING LAY-IN CEILING AS REQUIRED FOR MECHANICAL DESIGN. REFER TO MECHANICAL DOCUMENTS FOR SCOPE.
DD	EXISTING SPEAKERS, WIRELESS ACCESS POINTS, AND SPRINKLERS TO REMAIN. CONTRACTOR TO MODIFY PLACEMENT IF EXISTING LOCATIONS INTERFERE WITH NEW OFFICE WALLS.
DE	PATCH AND REPAIR EXISTING SOFFIT AT DEMOLISHED STOREFRONT.
DF	EXISTING CEILING, LIGHTS, AND FIXTURES TO REMAIN AND BE PROTECTED DURING CONSTRUCTION.
DG	EXISTING 2X4 LIGHTS @ NEW OFFICE LOCATIONS TO BE DEMOLISHED AND REPLACED WITH NEW LED FIXTURE. SEE ARCHITECTURAL NEW WORK/ELECTRICAL FOR FURTHER INFORMATION.
DH	ALT #3 CONTRACTOR TO PROVIDE PRICING TO REPLACE ALL EXISTING 2X4 LIGHTS IN OPEN STUDY AREA WITH NEW LED FIXTURES TO MATCH NEW OFFICE FIXTURES. CONTRACTOR TO FIELD VERIFY NUMBER OF FIXTURES TO BE REPLACES. SEE PLAN FOR AREA.

#### PROJECT ALTERNATE PRICING:

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ALT #2:	CONTRACTOR TO PRICE OUT CONFERENCE ROOM BUILD OUT. INCLUDES NEW WALLS, DOORS, FURNITURE, AND FINISHES.
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STUCKY VITALE ARCHITECTS  
27172 WOODWARD AVENUE  
ROYAL OAK, MI 48067-0925  
P. 248.546.6700  
F. 248.546.8454  
WWW.STUCKYVITALE.COM

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Project :

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UGL-W360 ACADEMIC  
ENGAGEMENT HUB

5155 GULLEN MALL  
DETROIT, MI 48202

Key Plan:

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CRB, JML

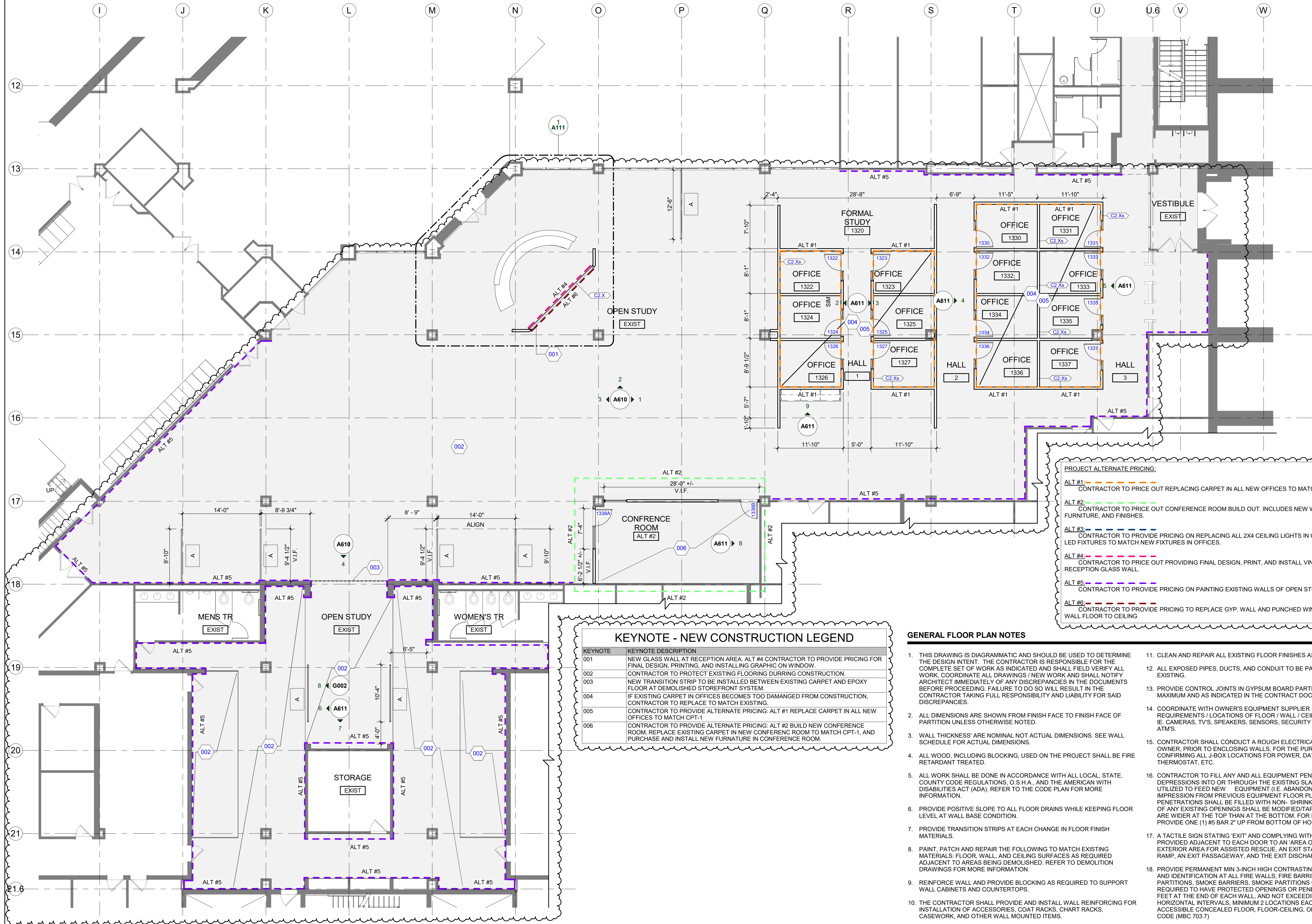
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ARCHITECTURAL DEMOLITION  
REFLECTED CEILING PLAN

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KEYNOTE - NEW CONSTRUCTION LEGEND	
KEYNOTE	KEYNOTE DESCRIPTION
001	NEW GLASS WALL AT RECEPTION AREA. ALT #4 CONTRACTOR TO PROVIDE PRICING FOR FINAL DESIGN, PRINTING, AND INSTALLING GRAPHIC ON WINDOW.
002	CONTRACTOR TO PROTECT EXISTING FLOORING DURING CONSTRUCTION.
003	NEW TRANSITION STRIP TO BE INSTALLED BETWEEN EXISTING CARPET AND EPOXY FLOOR AT DEMOLISHED STOREFRONT SYSTEM.
004	IF EXISTING CARPET IN OFFICES BECOMES TOO DAMAGED FROM CONSTRUCTION, CONTRACTOR TO REPLACE TO MATCH EXISTING.
005	CONTRACTOR TO PROVIDE ALTERNATE PRICING: ALT #1 REPLACE CARPET IN ALL NEW OFFICES TO MATCH OPT-1.
006	CONTRACTOR TO PROVIDE ALTERNATE PRICING: ALT #2 BUILD NEW CONFERENCE ROOM, REPLACE EXISTING CARPET IN NEW CONFERENCE ROOM TO MATCH OPT-1, AND PURCHASE AND INSTALL NEW FURNITURE IN CONFERENCE ROOM.

PROJECT ALTERNATE PRICING:	
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ALT #3:	CONTRACTOR TO PROVIDE PRICING ON REPLACING ALL 2X4 CEILING LIGHTS IN OPEN STUDY AREA WITH LED FIXTURES TO MATCH NEW FIXTURES IN OFFICES.
ALT #4:	CONTRACTOR TO PRICE OUT PROVIDING FINAL DESIGN, PRINT, AND INSTALL VINYL GRAPHIC ON THE RECEPTION GLASS WALL.
ALT #5:	CONTRACTOR TO PROVIDE PRICING ON PAINTING EXISTING WALLS OF OPEN STUDY AREA.
ALT #6:	CONTRACTOR TO PROVIDE PRICING TO REPLACE GYP. WALL AND PUNCHED WINDOW WITH ALL GLASS WALL FLOOR TO CEILING

GENERAL FLOOR PLAN NOTES

- THIS DRAWING IS DIAGRAMMATIC AND SHOULD BE USED TO DETERMINE THE DESIGN INTENT. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE SET OF WORK AS INDICATED AND SHALL FIELD VERIFY ALL WORK. COORDINATE ALL DRAWINGS / NEW WORK AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES IN THE DOCUMENTS BEFORE PROCEEDING. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR TAKING FULL RESPONSIBILITY AND LIABILITY FOR SAID DISCREPANCIES.
- ALL DIMENSIONS ARE SHOWN FROM FINISH FACE TO FINISH FACE OF PARTITION UNLESS OTHERWISE NOTED.
- WALL THICKNESS ARE NOMINAL NOT ACTUAL DIMENSIONS. SEE WALL SCHEDULE FOR ACTUAL DIMENSIONS.
- ALL WOOD, INCLUDING BLOCKING, USED ON THE PROJECT SHALL BE FIRE RETARDANT TREATED.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL, STATE, COUNTY CODE REGULATIONS, O.S.H.A., AND THE AMERICAN WITH DISABILITIES ACT (ADA). REFER TO THE CODE PLAN FOR MORE INFORMATION.
- PROVIDE POSITIVE SLOPE TO ALL FLOOR DRAINS WHILE KEEPING FLOOR LEVEL AT WALL BASE CONDITION.
- PROVIDE TRANSITION STRIPS AT EACH CHANGE IN FLOOR FINISH MATERIALS.
- PAINT, PATCH AND REPAIR THE FOLLOWING TO MATCH EXISTING MATERIALS: FLOOR, WALL, AND CEILING SURFACES AS REQUIRED ADJACENT TO AREAS BEING DEMOLISHED. REFER TO DEMOLITION DRAWINGS FOR MORE INFORMATION.
- REINFORCE WALL AND PROVIDE BLOCKING AS REQUIRED TO SUPPORT WALL CABINETS AND COUNTERTOPS.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL WALL REINFORCING FOR INSTALLATION OF ACCESSORIES, COAT RACKS, CHART RACKS, CASEWORK, AND OTHER WALL MOUNTED ITEMS.
- CLEAN AND REPAIR ALL EXISTING FLOOR FINISHES AS NECESSARY.
- ALL EXPOSED PIPES, DUCTS, AND CONDUIT TO BE PAINTED TO MATCH EXISTING.
- PROVIDE CONTROL JOINTS IN GYPSUM BOARD PARTITIONS AT 30'-0" O.C. MAXIMUM AND AS INDICATED IN THE CONTRACT DOCUMENTS.
- COORDINATE WITH OWNER'S EQUIPMENT SUPPLIER FOR INSTALLATION REQUIREMENTS / LOCATIONS OF FLOOR / WALL / CEILING MOUNTED ITEMS; IE. CAMERAS, TV'S, SPEAKERS, SENSORS, SECURITY WIRING, VAULTS, ATM'S.
- CONTRACTOR SHALL CONDUCT A ROUGH ELECTRICAL INSPECTION WITH OWNER, PRIOR TO ENCLOSING WALLS, FOR THE PURPOSE OF CONFIRMING ALL J-BOX LOCATIONS FOR POWER, DATA, VOICE, SWITCH, THERMOSTAT, ETC.
- CONTRACTOR TO FILL ANY AND ALL EQUIPMENT PENETRATIONS OR DEPRESSIONS INTO OR THROUGH THE EXISTING SLAB THAT WILL NOT BE UTILIZED TO FEED NEW EQUIPMENT (I.E. ABANDONED FLOOR CORES, IMPRESSION FROM PREVIOUS EQUIPMENT FLOOR PLATE REMOVAL). PENETRATIONS SHALL BE FILLED WITH NON-SHRINK GROUT. THE SIDES OF ANY EXISTING OPENINGS SHALL BE MODIFIED/TAPERED SO THAT THEY ARE WIDER AT THE TOP THAN AT THE BOTTOM. FOR LARGE OPENINGS, PROVIDE ONE (1) #5 BAR 2" UP FROM BOTTOM OF HOLE.
- A TACTILE SIGN STATING 'EXIT' AND COMPLYING WITH ICC-A117.1 SHALL BE PROVIDED ADJACENT TO EACH DOOR TO AN 'AREA OF REFUGE'; AN EXTERIOR AREA FOR ASSISTED RESCUE, AN EXIT STAIRWAY, AN EXIT RAMP, AN EXIT PASSAGEWAY, AND THE EXIT DISCHARGE.
- PROVIDE PERMANENT MIN 3-INCH HIGH CONTRASTING COLOR MARKING AND IDENTIFICATION AT ALL FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS, SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS WITHIN 15 FEET AT THE END OF EACH WALL, AND NOT EXCEEDING 30 FEET MAXIMUM HORIZONTAL INTERVALS, MINIMUM 2 LOCATIONS EACH WALL. TYPICAL FOR ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING, OR ATTIC SPACES PER CODE (MBC 703.7)



STUCKY VITALE ARCHITECTS  
27172 WOODWARD AVENUE  
ROYAL OAK, MI 48067-0925  
P. 248.546.6700  
F. 248.546.8454  
WWW.STUCKYVITALE.COM

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UGL-W360 ACADEMIC  
ENGAGEMENT HUB

5155 GULLEN MALL  
DETROIT, MI 48202

Key Plan:

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JML

Checked by :  
ARR

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PLAN

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27172 WOODWARD AVENUE  
ROYAL OAK, MI 48067-0925  
P. 248.546.6700  
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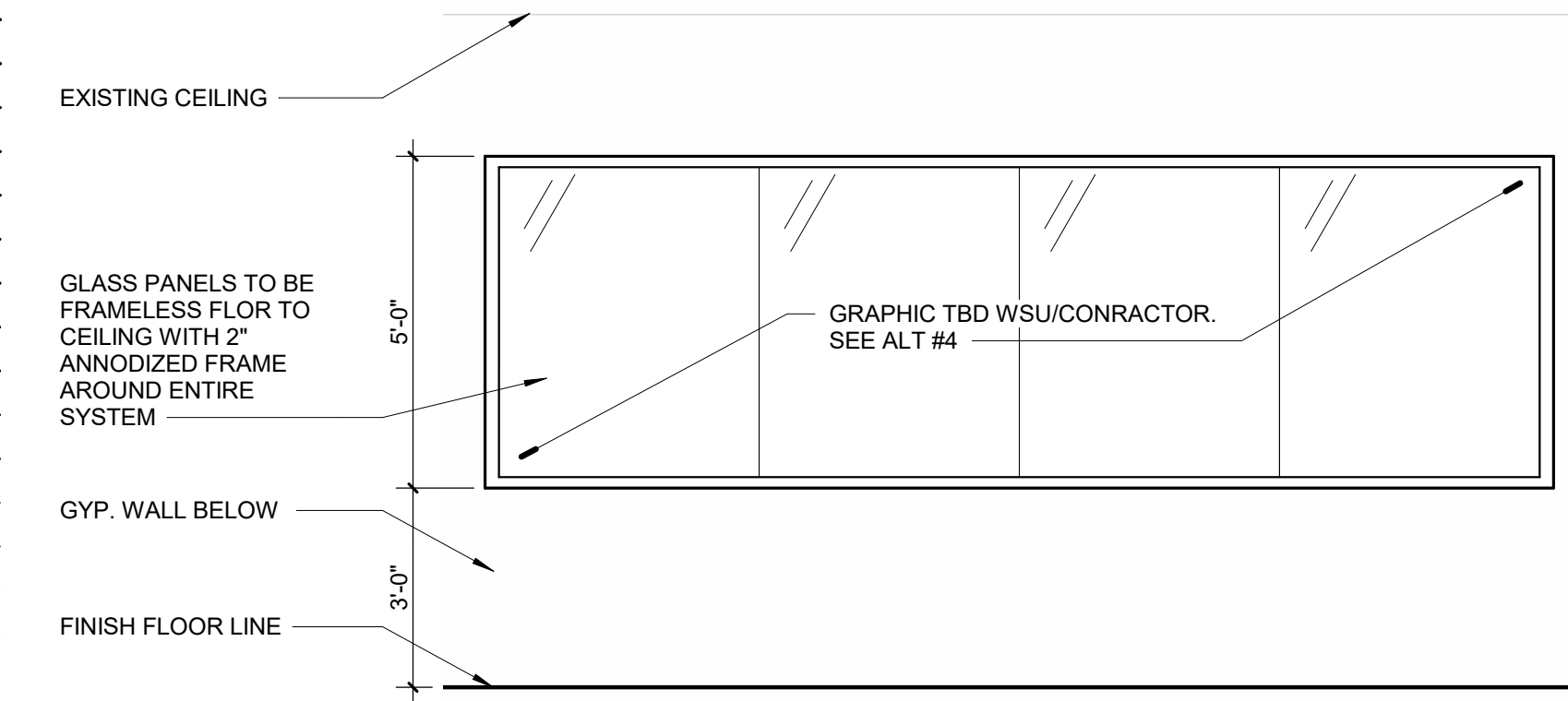
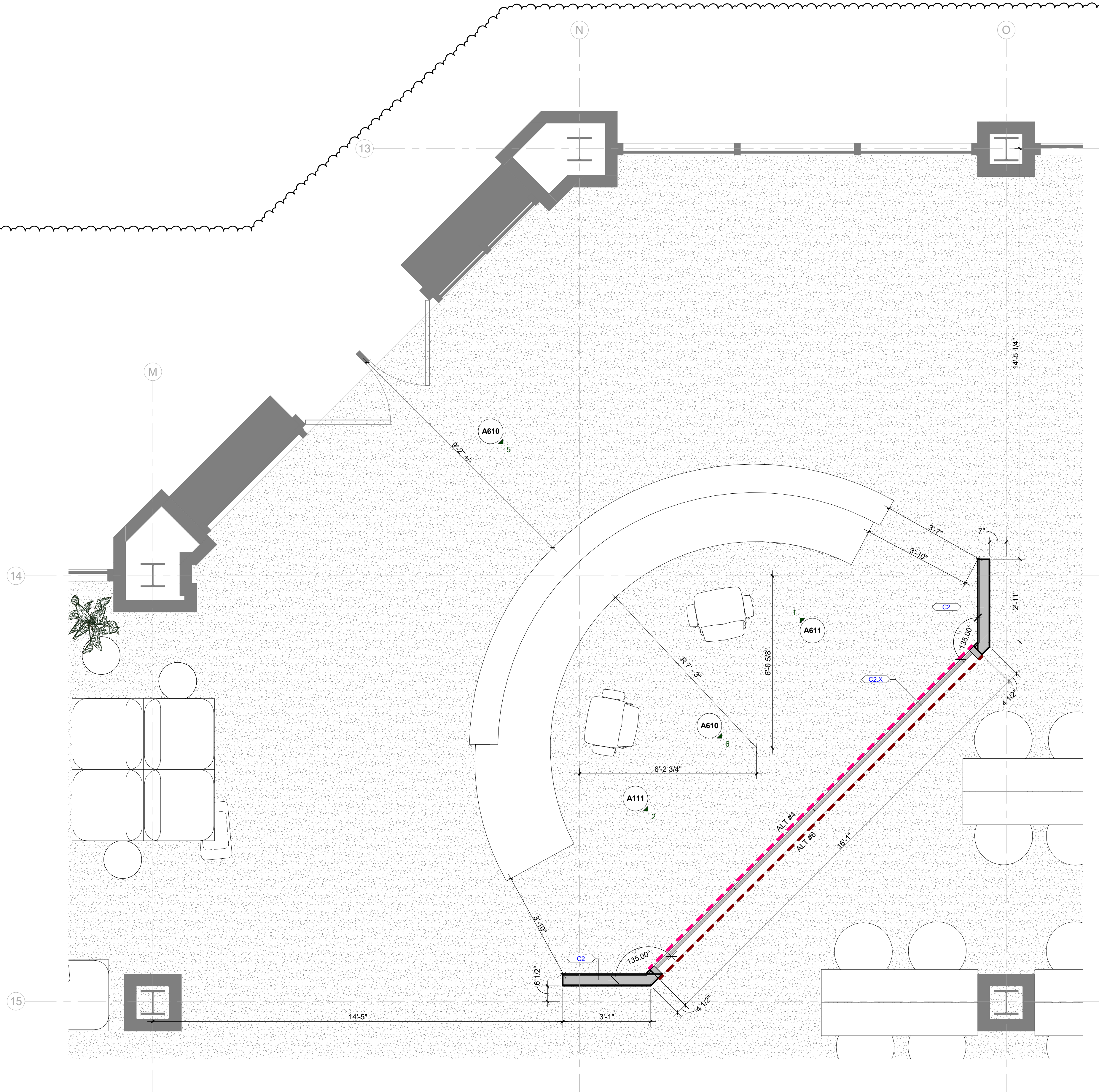
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ENLARGED RECEPTION AREA  
PLAN

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2 RECEPTION GLASS WALL  
A111 3/8" = 1'-0"

#### GENERAL FLOOR PLAN NOTES

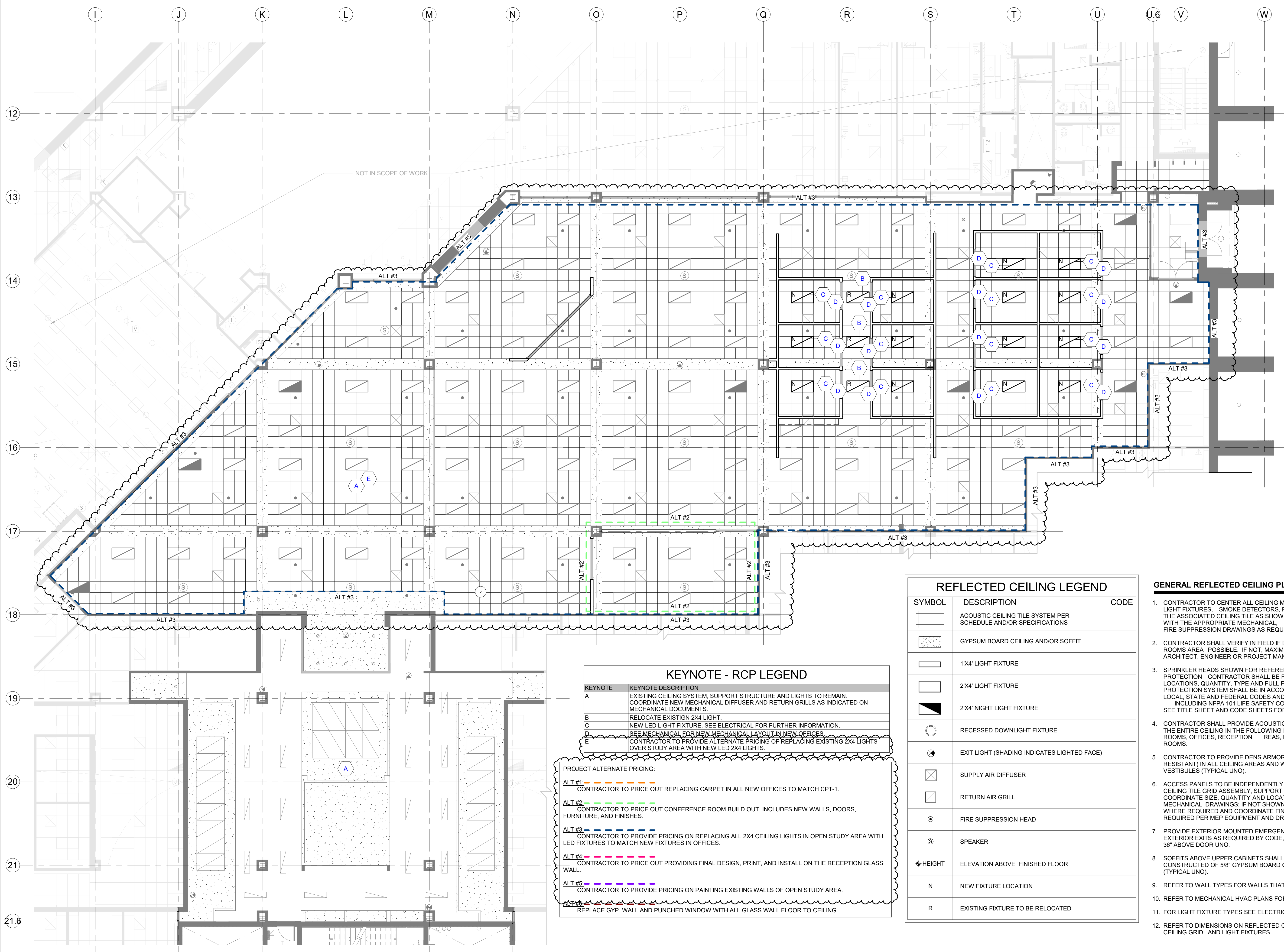
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1 ENLARGED RECEPTION DESK PLAN  
A111 1/2" = 1'-0"






KEYNOTE - RCP LEGEND	
KEYNOTE	KEYNOTE DESCRIPTION
A	EXISTING CEILING SYSTEM, SUPPORT STRUCTURE AND LIGHTS TO REMAIN. COORDINATE NEW MECHANICAL DIFFUSER AND RETURN GRILLS AS INDICATED ON MECHANICAL DOCUMENTS.
B	RELOCATE EXISTING 2X4 LIGHT.
C	NEW LED LIGHT FIXTURE. SEE ELECTRICAL FOR FURTHER INFORMATION.
D	SEE MECHANICAL FOR NEW MECHANICAL LAYOUT IN NEW OFFICES.
E	CONTRACTOR TO PROVIDE ALTERNATE PRICING OF REPLACING EXISTING 2X4 LIGHTS OVER STUDY AREA WITH NEW LED 2X4 LIGHTS.

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REFLECTED CEILING LEGEND		
SYMBOL	DESCRIPTION	CODE
	ACOUSTIC CEILING TILE SYSTEM PER SCHEDULE AND/OR SPECIFICATIONS	
	GYPSUM BOARD CEILING AND/OR SOFFIT	
	1'X4' LIGHT FIXTURE	
	2'X4' LIGHT FIXTURE	
	2'X4' NIGHT LIGHT FIXTURE	
	RECESSED DOWNLIGHT FIXTURE	
	EXIT LIGHT (SHADING INDICATES LIGHTED FACE)	
	SUPPLY AIR DIFFUSER	
	RETURN AIR GRILL	
	FIRE SUPPRESSION HEAD	
	SPEAKER	
	HEIGHT	ELEVATION ABOVE FINISHED FLOOR
N	NEW FIXTURE LOCATION	
R	EXISTING FIXTURE TO BE RELOCATED	

- GENERAL REFLECTED CEILING PLAN NOTES**
- CONTRACTOR TO CENTER ALL CEILING MOUNTED ITEMS (i.e., RECESSED LIGHT FIXTURES, SMOKE DETECTORS, FIRE SUPPRESSION HEADS) WITHIN THE ASSOCIATED CEILING TILE AS SHOWN. COORDINATE FINAL LOCATION WITH THE APPROPRIATE MECHANICAL, ELECTRICAL, FIRE ALARM, AND FIRE SUPPRESSION DRAWINGS AS REQUIRED.
  - CONTRACTOR SHALL VERIFY IN FIELD IF DESIGNATED CEILING HEIGHTS IN ROOMS AREA POSSIBLE. IF NOT, MAXIMIZE CEILING HEIGHTS AND NOTIFY ARCHITECT, ENGINEER OR PROJECT MANAGER OF ANY DISCREPANCY.
  - SPRINKLER HEADS SHOWN FOR REFERENCE ONLY. DESIGN-BUILD FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL LOCATIONS, QUANTITY, TYPE AND FULL FIRE PROTECTION DESIGN. FIRE PROTECTION SYSTEM SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND BUILDING STANDARDS INCLUDING NFPA 101 LIFE SAFETY CODE (SPECIFICALLY CHAPTER 20). SEE TITLE SHEET AND CODE SHEETS FOR ADDITIONAL INFORMATION.
  - CONTRACTOR SHALL PROVIDE ACOUSTIC SOUND BATT INSULATION ABOVE THE ENTIRE CEILING IN THE FOLLOWING ROOMS (TYPICAL UNO): TOILET ROOMS, OFFICES, RECEPTION REAS, EXAM ROOMS AND CONFERENCE ROOMS.
  - CONTRACTOR TO PROVIDE DENS ARMOR PLUS WALL BOARD (MOISTURE RESISTANT) IN ALL CEILING AREAS AND WALLS OF TOILET ROOMS AND VESTIBULES (TYPICAL UNO).
  - ACCESS PANELS TO BE INDEPENDENTLY MOUNTED, DO NOT SUPPORT ON CEILING TILE. GROUND ASSEMBLY SUPPORT FROM STRUCTURE ABOVE ONLY. COORDINATE SIZE, QUANTITY AND LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS; IF NOT SHOWN, CONTRACTOR TO PROVIDE WHERE REQUIRED AND COORDINATE FINAL LOCATIONS IN FIELD WHERE REQUIRED PER MEP EQUIPMENT AND DRAWINGS.
  - PROVIDE EXTERIOR MOUNTED EMERGENCY EGRESS LIGHT AT ALL EXTERIOR EXITS AS REQUIRED BY CODE, BATTERY BACK-UP AND MOUNTED 36" ABOVE DOOR UNO.
  - SOFFITS ABOVE UPPER CABINETS SHALL BE 16" DEEP AND SHALL BE CONSTRUCTED OF 5/8" GYPSUM BOARD ON 3 5/8" METAL FRAMING AT 16" OC (TYPICAL UNO).
  - REFER TO WALL TYPES FOR WALLS THAT PENETRATE CEILINGS.
  - REFER TO MECHANICAL HVAC PLANS FOR DIFFUSER / GRILLE SIZES.
  - FOR LIGHT FIXTURE TYPES SEE ELECTRICAL LIGHTING PLANS.
  - REFER TO DIMENSIONS ON REFLECTED CEILING PLAN TO LOCATE / LAYOUT CEILING GRID AND LIGHT FIXTURES.



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FIRST LEVEL REFLECTED  
CEILING PLAN

Project No. :  
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ADDENDUM #1	09.20

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INTERIOR ELEVATIONS

Project No. :  
023.111

Sheet No. :

A610







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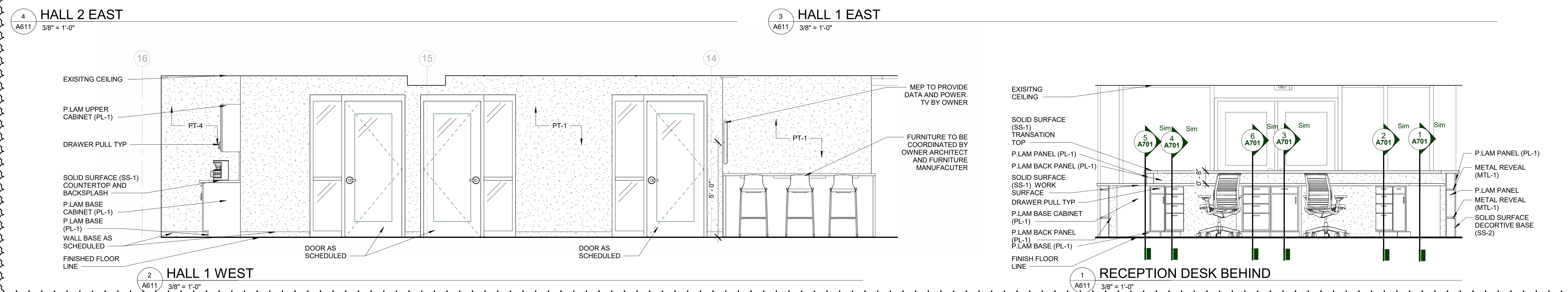
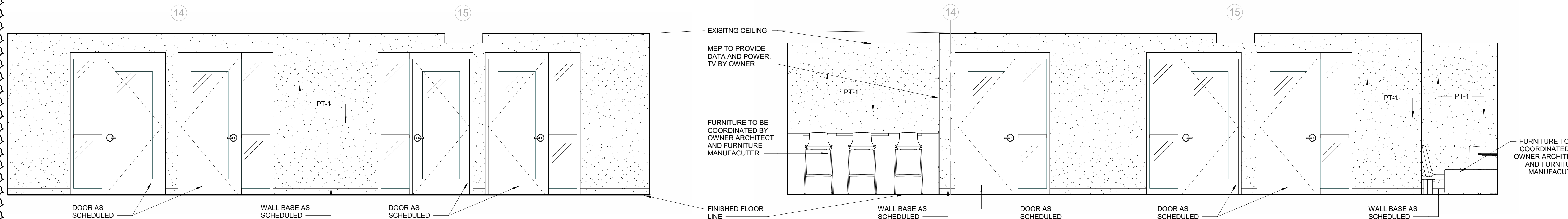
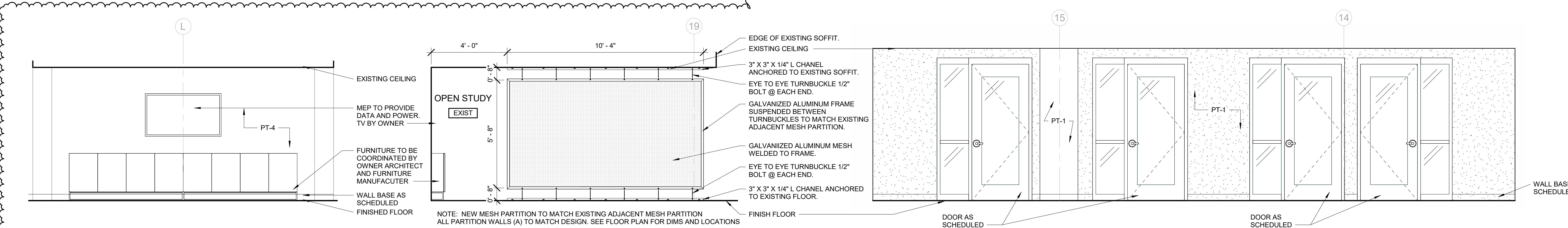
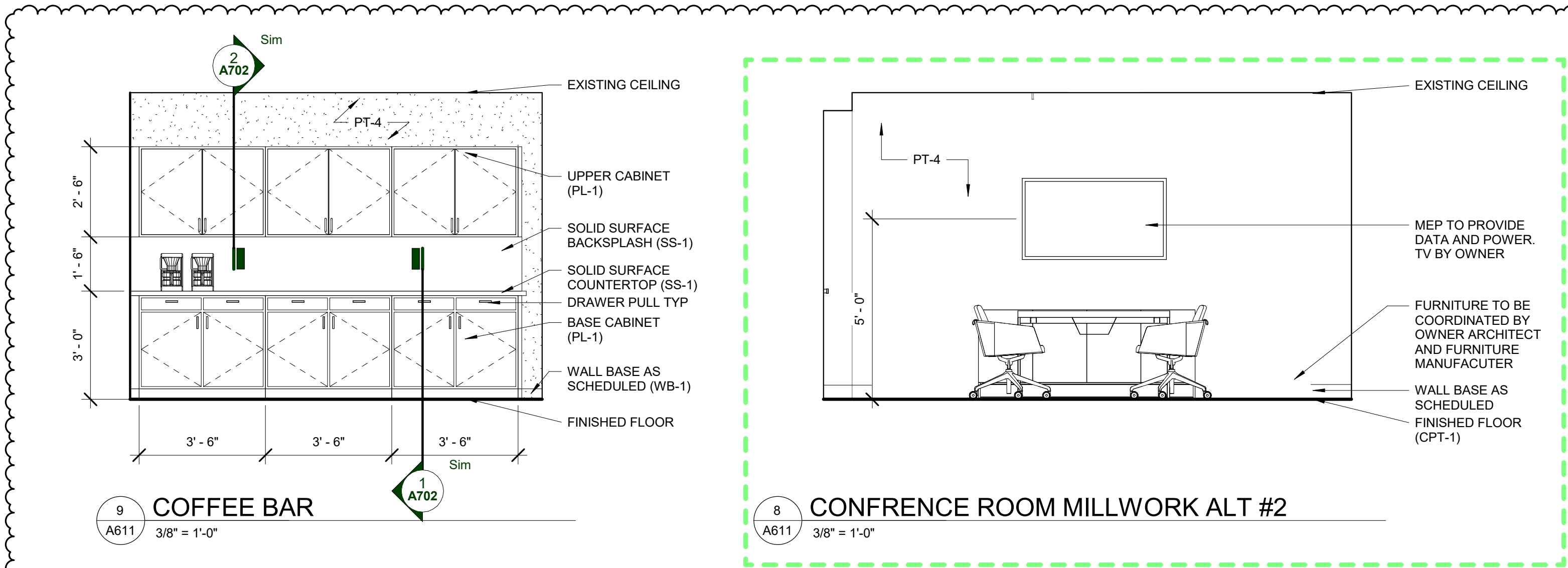
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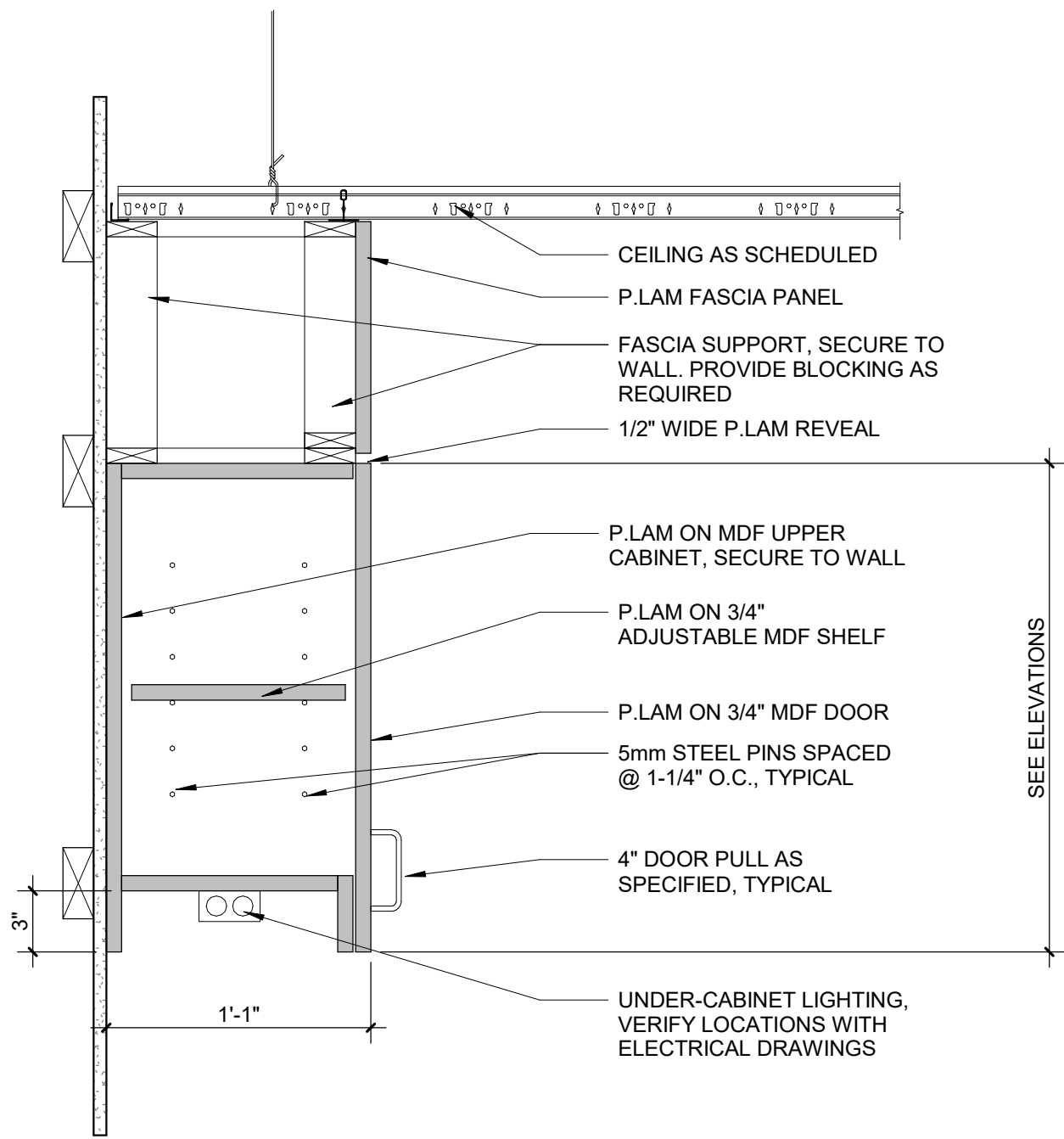
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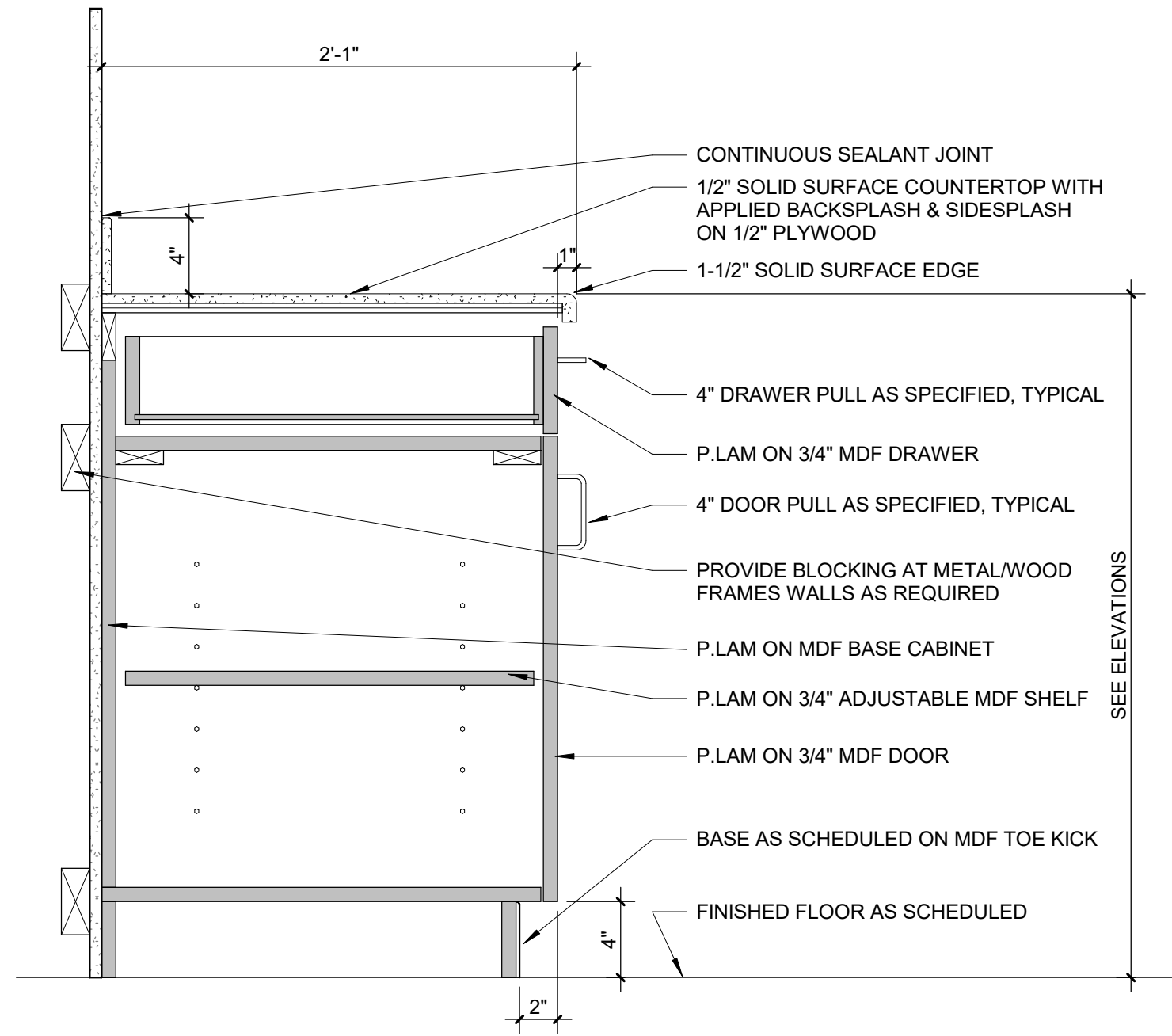
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DETAILS

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Sheet No. :  
**A702**



2 UPPER CABINET - 13" W/ LIGHT  
A702 1 1/2" = 1'-0"



1 BASE CABINET - SOLID SURFACE  
A702 1 1/2" = 1'-0"



FINISH SCHEDULE									
RM #	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL PAINT				CEILING FINISH	REMARKS
				NORTH WALL	EAST WALL	SOUTH WALL	WEST WALL		
-	ENTRY	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1 PT-3	
1	HALL	EXISTING	WB-1	PT-4 SS-1	PT-4	PT-1	PT-4	ACT-1 PT-3	
2	HALL	EXISTING	WB-1	PT-1	PT-1	PT-1	PT-1	ACT-1 PT-3	
3	HALL	EXISTING	WB-1	PT-1	PT-1	PT-1	PT-1	ACT-1 PT-3	
1320	FORMAL STUDY	EXISTING	WB-1	PT-1	PT-1	PT-1	PT-4	ACT-1 PT-3	
1322	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-5	ACT-1	
1323	OFFICE	CPT-1	WB-1	PT-1	PT-5	PT-1	PT-1	ACT-1	
1324	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-5	ACT-1 PT-3	
1325	OFFICE	CPT-1	WB-1	PT-1	PT-5	PT-1	PT-1	ACT-1 PT-3	
1326	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-5	ACT-1	
1327	OFFICE	CPT-1	WB-1	PT-1	PT-5	PT-1	PT-1	ACT-1	
1330	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-5	ACT-1	
1331	OFFICE	CPT-1	WB-1	PT-1	PT-5	PT-1	PT-1	ACT-1	
1332	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-5	ACT-1	
1333	OFFICE	CPT-1	WB-1	PT-1	PT-5	PT-1	PT-1	ACT-1	
1334	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-5	ACT-1 PT-3	
1335	OFFICE	CPT-1	WB-1	PT-1	PT-5	PT-1	PT-1	ACT-1 PT-3	
1336	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-5	ACT-1	
1337	OFFICE	CPT-1	WB-1	PT-1	PT-5	PT-1	PT-1	ACT-1	
ALT #2	CONFERENCE ROOM	CPT-1	WB-1	PT-1	PT-4	PT-1	PT-1	ACT-1 PT-3	
EXIST	OPEN STUDY	EXISTING	EXISTING	PT-1	PT-1	PT-1	PT-1	ACT-1 PT-3	PT-1 ONLY NEW WALLS UNLESS EXISTING WALLS NEED TO BE CLEANED OR REPAIRED
EXIST	OPEN STUDY	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	ACT-1 PT-3	
EXIST	VESTIBULE	EXISTING	WB-1	PT-1	PT-1	PT-1	PT-1	ACT-1 PT-3	
EXIST	STORAGE	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
EXIST	MENS TR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
EXIST	WOMEN'S TR	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	EXISTING	
Level 1: 26									
TOTAL ROOMS: 26									

LIST OF MATERIALS			
064100 - ARCHITECTURAL CASEWORK		099100 - PAINT	
PL-1	PLASTIC LAMINATE MANUFACTURER: WILSONART COLOR: FISHER OAK TEXTURE: ALIGNED LOCATION: RECEPTION DESK AND CABINETS CONTACT: NOTE: AEON SCRATCH RESISTANCE ANTIMICROBIAL PROTECTION	PT-1	INTERIOR FIELD PAINT MANUFACTURER: SHERWIN WILLIAMS COLOR: MATCH EXISITNG FINISH: EGG-SHELL LOCATION: THROUGHT OUT SCOPE UNLESS NOTED OTHERWISE ON FINISH SCHEDULED NOTE: CLEAN, REPAIR AND REPAINT
MTL-1	METAL SHEET MANUFACTURER: FORMICA PATTERN: M9420-99 LIGHT ROLLED SHEET COLOR: ACIER LAMINE CLAIR LOCATION: RECEPTION DESK REVEALS CONTACT: NOTE:	PT-2	DOOR FRAME PAINT & DOOR MANUFACTURER: SHERWIN WILLIAMS COLOR: MATCH EXISITING FINISH: SEMI-GLOSS LOCATION: ONLY WHERE NEEDED, REPAIR, CLEAN AND REPAINT
SS-2	SOLID SSURFACE MANUFACTURER: AVONITE COLOR: CANARY F1-7554 FINISH: SATIN LOCATION: RECEPTION BASE CONTACT: NOTE: OR SIM	PT-3	CEILING PAINT MANUFACTURER: SHERWIN WILLIAMS COLOR: MATCH EXISTING FINISH: FLAT LOCATION: SOFFITS NOTE: CLEAN, REPAIR AND REPAINT
-	PULLS MANUFACTURER: RICHELIEU STYLE: CONTEMPORARY METAL EDGE PULL PRODUCT NUMBER: BP9696128170 FINISH: STAINLESS STEEL LENGTH: 5 13/16" OVERALL LOCATION: CABINETS AND DRAWERS	PT-4	ACCENT PAINT- WSU GREEN MANUFACTURER: SHERWIN WILLIAMS PANTON: 561 C RGB- 12 84 73 FINISH: EGG-SHELL LOCATION: REFER TO FINISH PLAN FOR EXACT LOCATION
		PT-5	ACCENT PAINT- WSU GOLD MANUFACTURER: SHERWIN WILLIAMS PANTON: 1225 C RGB- 255 204 51 FINISH: EGG-SHELL LOCATION: REFER TO FINISH PLAN FOR EXACT LOCATION
095100 - SUSPENDED ACOUSTICAL CEILING		123600 - COUNTERTOPS	
ACT-1	ACOUSTIC CEILING TILE MANUFACTURER: MATCH EXISITNG COLLECTION: COLOR: WHITE SIZE: 2 X 2 EDGE: MATCH EXISITNG GRID PROFILE: KEEP EXISTING LOCATION: SEE RCP FOR MORE DETAIL NOTE: WHEN EXISTING GRID IS PRESENT, MATCH WHEN POSSIBLE. CEILING TILE SHOULD BE SAVED AND MATCH EXISING WHERE DAMAGED. CLEAN AND REPAIR WHERE POSSIBLE	SS-1	SOLID SSURFACE MANUFACTURER: WILSONART COLOR: MORNING ICE 9204CE LOCATION: RECEPTION AND CABINETS CONTACT:
096000 - CONTRACT FLOORING		260000 - ELECTRICAL	
CPT-1	CARPET TILE MANUFACTURER: PATCRAFT COLLECTION:RISE STYLE: 10465 COLOR: PATH SIZE: 12 X 45 LOCATION: OFFICES AND CONFERENCE ROOM ONLY CONTACT: NOTE: ALT OPTION	-	FACE PLATES COLOR: STAINLESS STEEL
TS-1	TRANSITION STRIP MANUFACTURER: PATCRAFT STYLE: S142V COLOR: 00086 SLATE LOCATION: WHERE NEW CARPET AND EXISTING CARPET MEET	-	DEVICES COLOR: WHITE
WB-1	RUBBER WALL BASE MANUFACTURER: MATCH EXISTING COLOR: MATCH EXISTING SIZE: 4 1/4"th, 1/4" THICK (USE 8" LENGTHS, NOT COIL) LOCATION: WHERE NEW CARPET NOTED CONTACT: NOTE: CLEAN, REPAIR OR REPLACE EXISITNG WHERE NEEDED		



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FINISH SCHEDULE AND  
LEGEND

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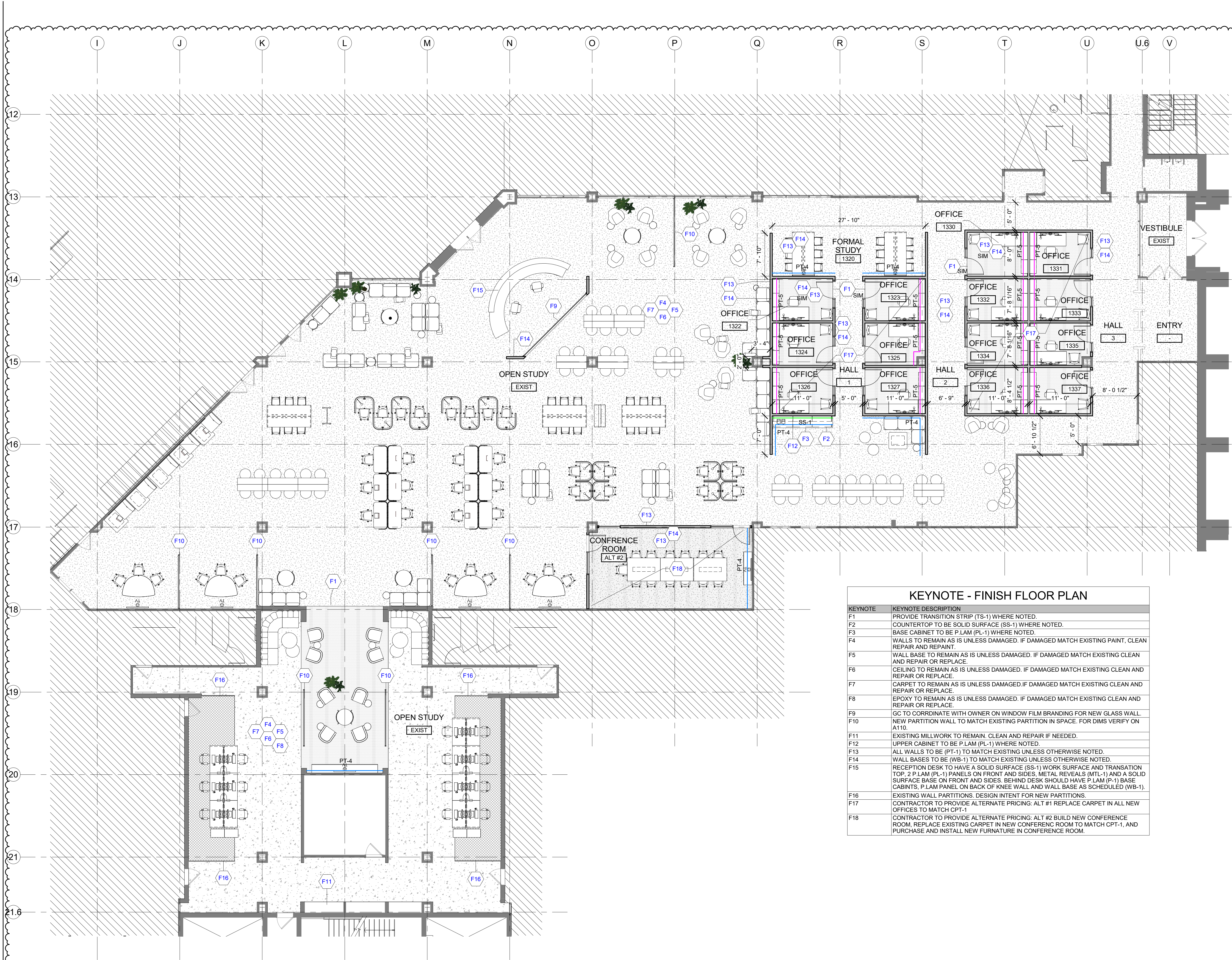
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FIRST LEVEL FINISH PLAN

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F110

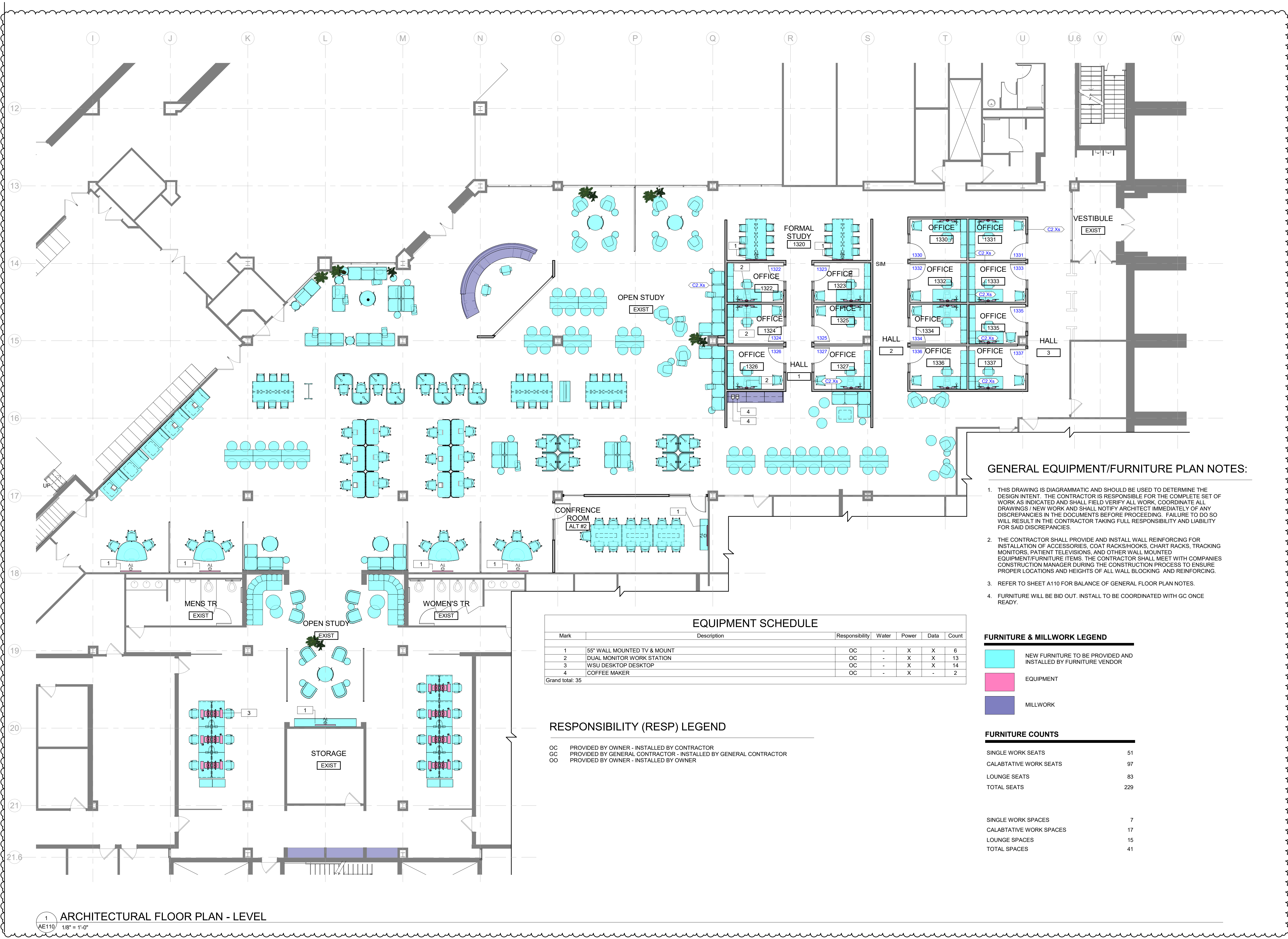


1 FIRST LEVEL FINISH FLOOR PLAN  
F110 1/8" = 1'-0"

KEYNOTE - FINISH FLOOR PLAN	
KEYNOTE	KEYNOTE DESCRIPTION
F1	PROVIDE TRANSITION STRIP (TS-1) WHERE NOTED.
F2	COUNTERTOP TO BE SOLID SURFACE (SS-1) WHERE NOTED.
F3	BASE CABINET TO BE P.LAM (PL-1) WHERE NOTED.
F4	WALLS TO REMAIN AS IS UNLESS DAMAGED. IF DAMAGED MATCH EXISTING PAINT, CLEAN REPAIR AND REPAINT.
F5	WALL BASE TO REMAIN AS IS UNLESS DAMAGED. IF DAMAGED MATCH EXISTING CLEAN AND REPAIR OR REPLACE.
F6	CEILING TO REMAIN AS IS UNLESS DAMAGED. IF DAMAGED MATCH EXISTING CLEAN AND REPAIR OR REPLACE.
F7	CARPET TO REMAIN AS IS UNLESS DAMAGED. IF DAMAGED MATCH EXISTING CLEAN AND REPAIR OR REPLACE.
F8	EPOXY TO REMAIN AS IS UNLESS DAMAGED. IF DAMAGED MATCH EXISTING CLEAN AND REPAIR OR REPLACE.
F9	GC TO CORRDINATE WITH OWNER ON WINDOW FILM BRANDING FOR NEW GLASS WALL.
F10	NEW PARTITION WALL TO MATCH EXISTING PARTITION IN SPACE. FOR DIMS VERIFY ON A110.
F11	EXISTING MILLWORK TO REMAIN. CLEAN AND REPAIR IF NEEDED.
F12	UPPER CABINET TO BE P.LAM (PL-1) WHERE NOTED.
F13	ALL WALLS TO BE (PT-1) TO MATCH EXISTING UNLESS OTHERWISE NOTED.
F14	WALL BASES TO BE (WB-1) TO MATCH EXISTING UNLESS OTHERWISE NOTED.
F15	RECEPTION DESK TO HAVE A SOLID SURFACE (SS-1) WORK SURFACE AND TRANSAION TOP. 2 P.LAM (PL-1) PANELS ON FRONT AND SIDES. METAL REVEALS (MTL-1) AND A SOLID SURFACE BASE ON FRONT AND SIDES. BEHIND DESK SHOULD HAVE P.LAM (P-1) BASE CABINETS. P.LAM PANEL ON BACK OF KNEE WALL AND WALL BASE AS SCHEDULED (WB-1).
F16	EXISTING WALL PARTITIONS. DESIGN INTENT FOR NEW PARTITIONS.
F17	CONTRACTOR TO PROVIDE ALTERNATE PRICING: ALT #1 REPLACE CARPET IN ALL NEW OFFICES TO MATCH CPT-1
F18	CONTRACTOR TO PROVIDE ALTERNATE PRICING: ALT #2 BUILD NEW CONFERENCE ROOM, REPLACE EXISTING CARPET IN NEW CONFERENCE ROOM TO MATCH CPT-1, AND PURCHASE AND INSTALL NEW FURNATURE IN CONFERENCE ROOM.

FLOOR PATTERN LEGEND	
TYP FOR ALL A600 SHEETS ONLY	
	CPT-1
	EXISTING CPT A
	EXISTING CPT B
	EXISTING EXP
	OUT OF SCOPE
WALL TYPE LEGEND	
TYP THIS SHEET ONLY (COLORS DO NOT REPRESENT ACTUAL COLOR OF PRODUCT)	
	PT-1 IS USED IN ALL AREAS NOT MARKED
	PT-4
	PT-5
	SS-1





GENERAL EQUIPMENT/FURNITURE PLAN NOTES:

1. THIS DRAWING IS DIAGRAMMATIC AND SHOULD BE USED TO DETERMINE THE DESIGN INTENT. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETE SET OF WORK AS INDICATED AND SHALL FIELD VERIFY ALL WORK. COORDINATE ALL DRAWINGS / NEW WORK AND SHALL NOTIFY ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES IN THE DOCUMENTS BEFORE PROCEEDING. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR TAKING FULL RESPONSIBILITY AND LIABILITY FOR SAID DISCREPANCIES.
2. THE CONTRACTOR SHALL PROVIDE AND INSTALL WALL REINFORCING FOR INSTALLATION OF ACCESSORIES, COAT RACKS/HOOKS, CHART RACKS, TRACKING MONITORS, PATIENT TELEVISIONS, AND OTHER WALL MOUNTED EQUIPMENT/FURNITURE ITEMS. THE CONTRACTOR SHALL MEET WITH COMPANIES CONSTRUCTION MANAGER DURING THE CONSTRUCTION PROCESS TO ENSURE PROPER LOCATIONS AND HEIGHTS OF ALL WALL BLOCKING AND REINFORCING.
3. REFER TO SHEET A110 FOR BALANCE OF GENERAL FLOOR PLAN NOTES.
4. FURNITURE WILL BE BID OUT. INSTALL TO BE COORDINATED WITH GC ONCE READY.

FURNITURE & MILLWORK LEGEND

- NEW FURNITURE TO BE PROVIDED AND INSTALLED BY FURNITURE VENDOR
- EQUIPMENT
- MILLWORK

FURNITURE COUNTS

SINGLE WORK SEATS	51
CALABTATIVE WORK SEATS	97
LOUNGE SEATS	83
TOTAL SEATS	229
SINGLE WORK SPACES	7
CALABTATIVE WORK SPACES	17
LOUNGE SPACES	15
TOTAL SPACES	41

EQUIPMENT SCHEDULE

Mark	Description	Responsibility	Water	Power	Data	Count
1	55" WALL MOUNTED TV & MOUNT	OC	-	X	X	6
2	DUAL MONITOR WORK STATION	OC	-	X	X	13
3	WSU DESKTOP DESKTOP	OC	-	X	X	14
4	COFFEE MAKER	OC	-	X	-	2
Grand total: 35						

RESPONSIBILITY (RESP) LEGEND

- OC PROVIDED BY OWNER - INSTALLED BY CONTRACTOR
- GC PROVIDED BY GENERAL CONTRACTOR - INSTALLED BY GENERAL CONTRACTOR
- OO PROVIDED BY OWNER - INSTALLED BY OWNER



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ROYAL OAK, MI 48067-0925  
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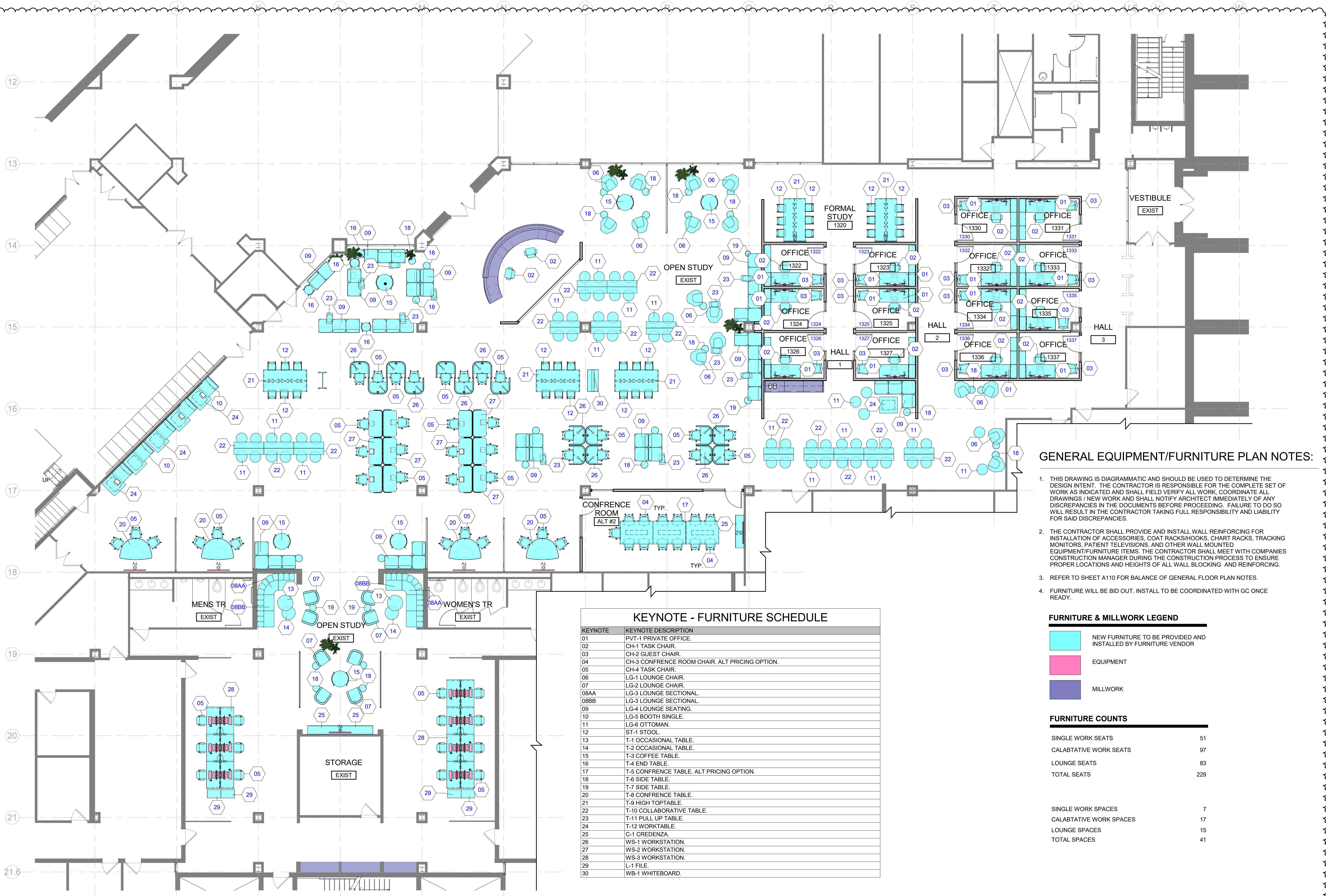
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FIRST LEVEL FURNITURE PLAN

Project No.:

2023.111

Sheet No.:

AE111



1 FURNIUTRE FLOOR PLAN  
1/8" = 1'-0"

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ABBREVIATIONS

ACCU	AIR CONDITIONING CONDENSING UNIT	F	FAHRENHEIT
AD	ACCESS DOOR	FD	FLOOR DRAIN
AFF	ABOVE FINISHED FLOOR	FLR	FLOOR
AHU	AIR HANDLING UNIT	FPM	FEET PER MINUTE
AP	ACCESS PANEL	FSW	FLOW SWITCH
ASR	AUTOMATIC SPRINKLER RISER	FS	FLOOR SINK
		FT.	FEET
BTU	BRITISH THERMAL UNIT	GPM	GALLONS PER MINUTE
CC	COOLING COIL	HB	HOSE BIBB
CF	CENTRIFUGAL FAN	HO	HUB OUTLET
CFM	CUBIC FEET PER MINUTE	HP	HORSEPOWER
CI	CAST IRON	HW	HOT WATER (POTABLE)
CO	CLEAN OUT	HWR	HOT WATER RETURN (POTABLE)
COND	CONDENSATE		
CONT	CONTINUATION	IN	INCHES
CUH	CABINET UNIT HEATER	INL	INLET
CW	COLD WATER	INV	INVERT
CWS	CHILLED WATER SUPPLY		
CWR	CHILLED WATER RETURN	LAT	LEAVING AIR TEMPERATURE
		LAV	LAVATORY
Db	DRY BULB TEMPERATURE, °F	LBS/HR	POUNDS PER HOUR
dB	DECIBELS	LWT	LEAVING WATER TEMPERATURE
DDC	DIRECT DIGITAL CONTROL	MAX.	MAXIMUM
DET	DETAIL	WBH	1000 BTU/HR
DIA	DIAMETER	DN	DOWN
DN	DOWN	MECH	MECHANICAL
DS	DOWNSPOUT	MIN.	MINIMUM
DWG.	DRAWING	MISC	MISCELLANEOUS
EA	EXHAUST AIR	NC	NORMALLY CLOSED
ECUH	ELECTRIC CABINET UNIT HEATER	NIC	NOT IN CONTRACT
EF	EXHAUST FAN	NO	NORMALLY OPEN
ELEV.	ELEVATION	NOM.	NOMINAL
ESP	EXTERNAL STATIC PRESSURE	NFWH	NON FREEZE WALL HYDRANT
EUH	ELECTRIC UNIT HEATER		
EX.	EXISTING	OA	OUTSIDE AIR
EXH	EXHAUST	OF	OVERFLOW
EXIST	EXISTING	OFD	OVERFLOW DRAIN

P	PUMP		
PD	PRESSURE DROP (FEET OF WATER)		
PSI	POUNDS PER SQUARE INCH		
PRV	PRESSURE REDUCING VALVE		
RA	RETURN AIR		
RD/SP	ROOF DRAIN/STAND PIPE		
BAL	BALANCE		
RET	RETURN		
RF	RETURN FAN		
RH	REHEAT COIL		
Rh	RELATIVE HUMIDITY		
RPM	REVOLUTIONS PER MINUTE		
RS	ROOF SUMP		
RC	RAIN CONDUCTOR		
REL	RELOCATED		
REB	REBALANCE		
SA	SUPPLY AIR		
SAN	SANITARY WASTE		
SD	SMOKE DETECTOR		
SF	SUPPLY FAN		
SG	SPECIFIC GRAVITY		
SP	STATIC PRESSURE (INCHES OF WATER)		
SP	STAND PIPE		
SPR	SPRINKLER		
SPR/STP	SPRINKLER STANDPIPE		
SPS	STATIC PRESSURE SENSOR		
STK	STACK		
TP	TOTAL PRESSURE		
Typ	TYPICAL		
UH	UNIT HEATER		
UON	UNLESS OTHERWISE NOTED		
V	VALVE		
VTR	VENT THRU ROOF		
W	WASTE		
WG	WATER GAUGE		
WH	WALL HYDRANT		

PLUMBING, PIPING & FIRE PROTECTION

	ITEM TO BE REMOVED		MANUAL AIR VENT
	EXISTING WORK		TEST PLUG (PRESSURE/TEMPERATURE)
	NEW WORK		NEW CONNECTION
	ISOLATION VALVE		COLD WATER PIPING
	CHECK VALVE		HOT WATER PIPING
	WATER FLOW SWITCH		HOT WATER RETURN PIPING
	VALVE IN RISER		VENT PIPING
	STRAINER		SANITARY LINE (UNDERGROUND)
	PIPE ANCHOR		SANITARY LINE (ABOVE GROUND)
	EXPANSION JOINT - SLIDING		STORM LINE
	ALIGNMENT GUIDE		STEAM
	UNION		CONDESATE RETURN
	SPRINKLER HEAD ( PENDANT )		OXYGEN
	SPRINKLER HEAD ( UPRIGHT )		VACUUM
	CLEANOUT		MEDICAL AIR
	CLEANOUT FLOOR		NITROGEN
	CLEANOUT WALL		NITROUS OXIDE
	CLEANOUT GRADE		NATURAL GAS
	FLOOR DRAIN (FD)		FIRE SPRINKLER PIPE (FS)
	REDUCER - CONCENTRIC		HEATING HOT WATER SUPPLY
	PRESSURE GAUGE WITH COCK		HEATING HOT WATER RETURN
	THERMOMETER		CHILLED WATER SUPPLY
	CAP OR PLUG		CHILLED HOT WATER RETURN
	ELBOW - TURNED DOWN		
	ELBOW - TURNED UP		
	TEE OUTLET - DOWN		
	TEE OUTLET - UP		
	DIRECTION OF FLOW		
	BALANCING VALVE		
	TWO-WAY MODULATING CONTROL VALVE		
	THREE-WAY MODULATING CONTROL VALVE		

MECHANICAL SHEET INDEX	
M000	MECHANICAL SYMBOLS LIST, INDEX AND NOTES
MD110	DEMOLITION HVAC PLAN - LEVEL 1
M110	HVAC PLAN - LEVEL 1
FP110	FIRE PROTECTION PLAN - LEVEL 1
M300	MECHANICAL SCHEDULES AND DETAILS
M400	MECHANICAL SPECIFICATIONS



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ROYAL OAK, MI 48067-0925  
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F. 248.546.8454  
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180 HIGH OAK ROAD BLOOMFIELD HILLS, MI 48304 11248125811610 112481258116308

Seal:



Project :

WSU- DETROIT- UGL  
1ST FLOOR STUDENT  
REFRESH

5155 GULLEN MALL.,  
DETROIT, MI 48202

Key Plan:

5155 GULLEN MALL.,  
DETROIT MI 48202

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MECHANICAL SYMBOLS LIST,  
INDEX AND NOTES

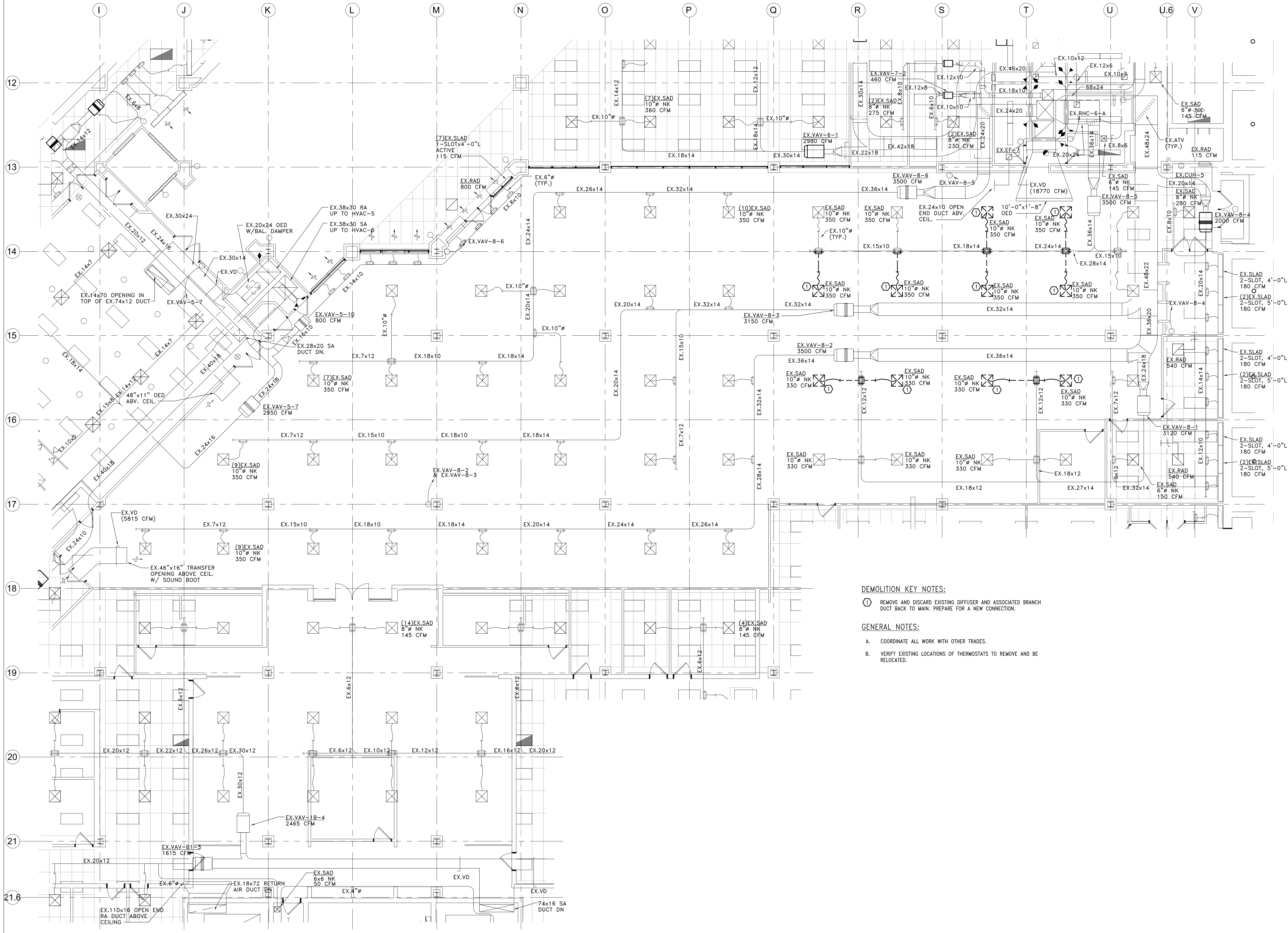
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M000





DEMOLITION KEY NOTES:

- ① REMOVE AND DISCARD EXISTING DIFFUSER AND ASSOCIATED BRANCH DUCT BACK TO MAIN. PREPARE FOR A NEW CONNECTION.

GENERAL NOTES:

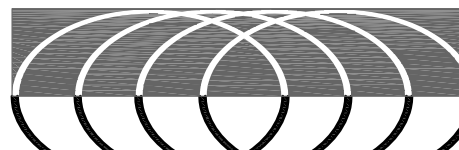
- A. COORDINATE ALL WORK WITH OTHER TRADES.  
B. VERIFY EXISTING LOCATIONS OF THERMOSTATS TO REMOVE AND BE RELOCATED.



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DEMOLITION HVAC PLAN -  
LEVEL 1

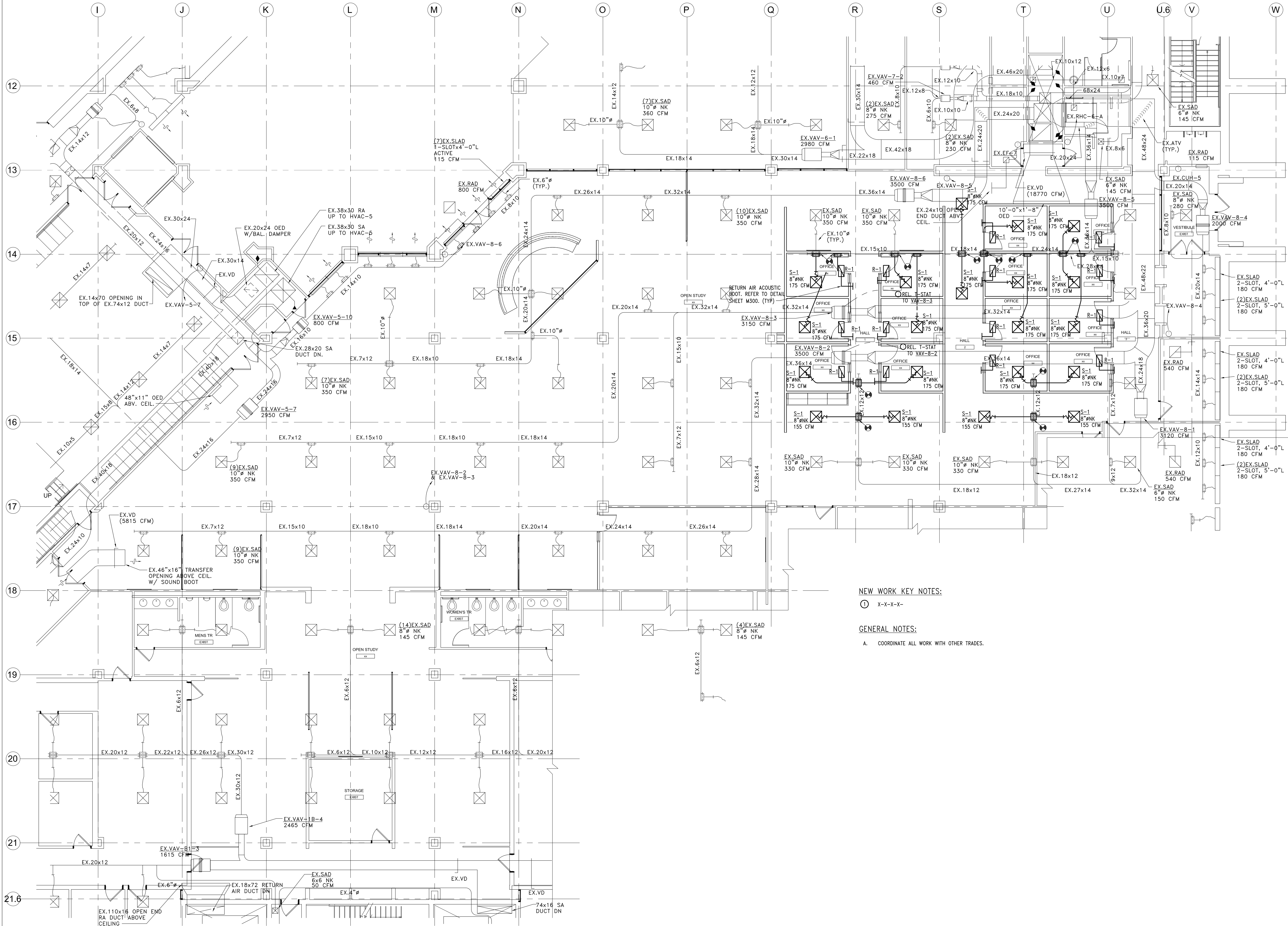
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MD110



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NEW WORK KEY NOTES:

- ① X-X-X-X-

GENERAL NOTES:

- A. COORDINATE ALL WORK WITH OTHER TRADES.

1 HVAC PLAN - LEVEL 1

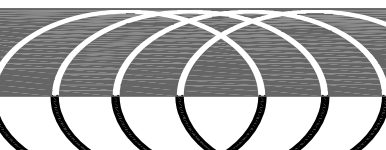
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HVAC PLAN - LEVEL 1

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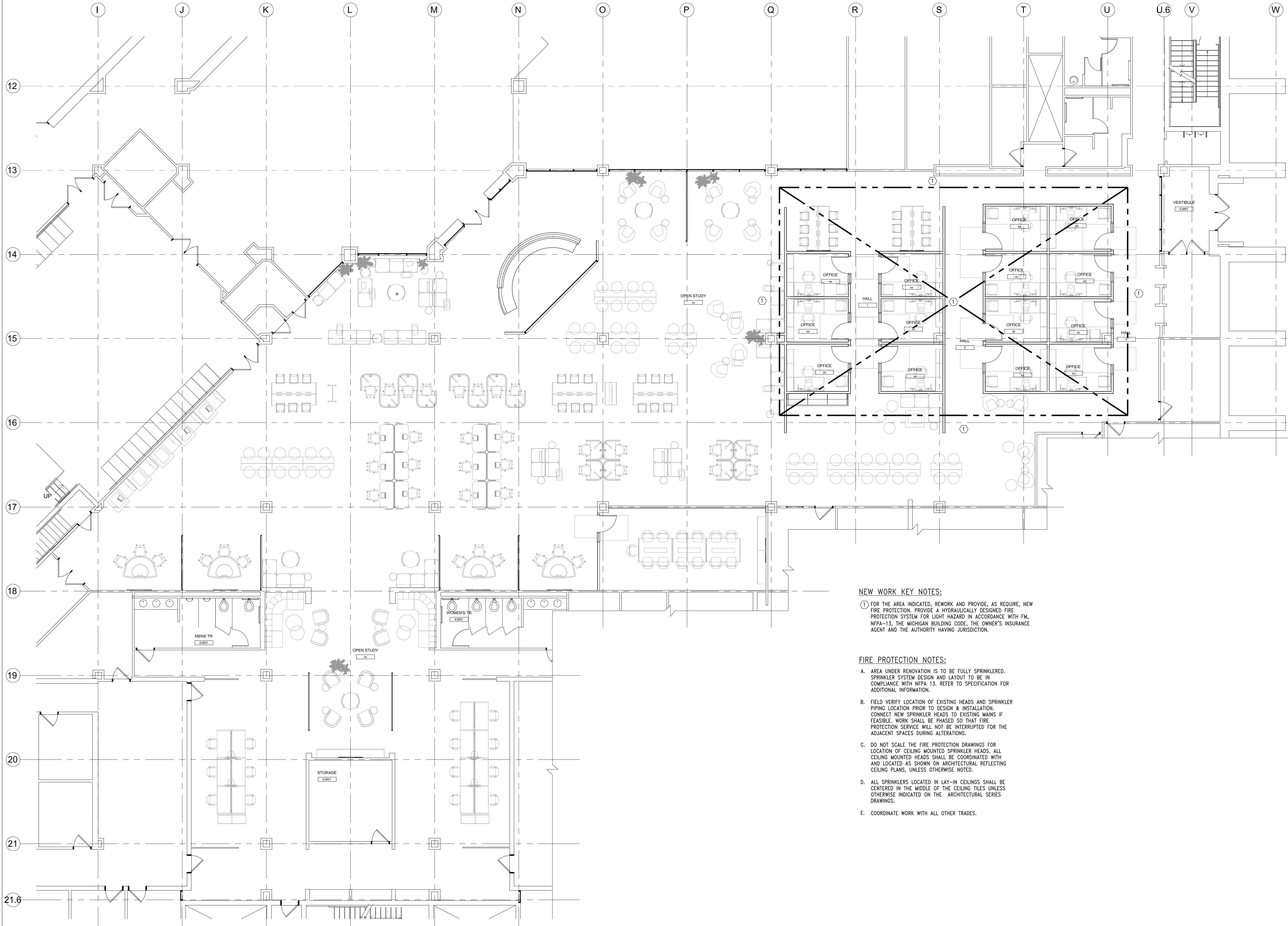
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NEW WORK KEY NOTES:

- ① FOR THE AREA INDICATED, REWORK AND PROVIDE, AS REQUIRE, NEW FIRE PROTECTION. PROVIDE A HYDRAULICALLY DESIGNED FIRE PROTECTION SYSTEM FOR LIGHT HAZARD IN ACCORDANCE WITH FM, NFPA-13, THE MICHIGAN BUILDING CODE, THE OWNER'S INSURANCE AGENT AND THE AUTHORITY HAVING JURISDICTION.

FIRE PROTECTION NOTES:

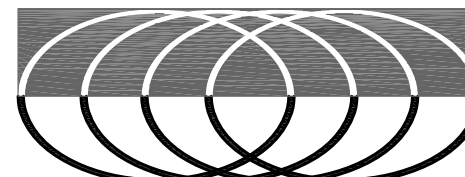
- A. AREA UNDER RENOVATION IS TO BE FULLY SPRINKLERED. SPRINKLER SYSTEM DESIGN AND LAYOUT TO BE IN COMPLIANCE WITH NFPA 13. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
- B. FIELD VERIFY LOCATION OF EXISTING HEADS AND SPRINKLER PIPING LOCATION PRIOR TO DESIGN & INSTALLATION. CONNECT NEW SPRINKLER HEADS TO EXISTING MAINS IF FEASIBLE. WORK SHALL BE PHASED SO THAT FIRE PROTECTION SERVICE WILL NOT BE INTERRUPTED FOR THE ADJACENT SPACES DURING ALTERATIONS.
- C. DO NOT SCALE THE FIRE PROTECTION DRAWINGS FOR LOCATION OF CEILING MOUNTED SPRINKLER HEADS. ALL CEILING MOUNTED HEADS SHALL BE COORDINATED WITH AND LOCATED AS SHOWN ON ARCHITECTURAL REFLECTING CEILING PLANS, UNLESS OTHERWISE NOTED.
- D. ALL SPRINKLERS LOCATED IN LAY-IN CEILINGS SHALL BE CENTERED IN THE MIDDLE OF THE CEILING TILES UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL SERIES DRAWINGS.
- E. COORDINATE WORK WITH ALL OTHER TRADES.



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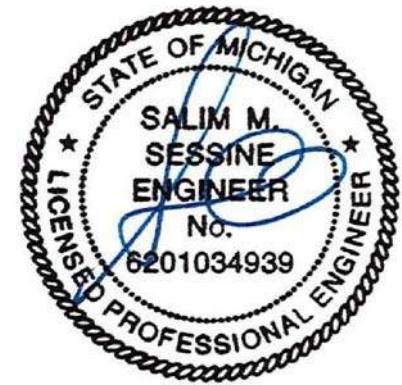
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FIRE PROTECTION PLAN -  
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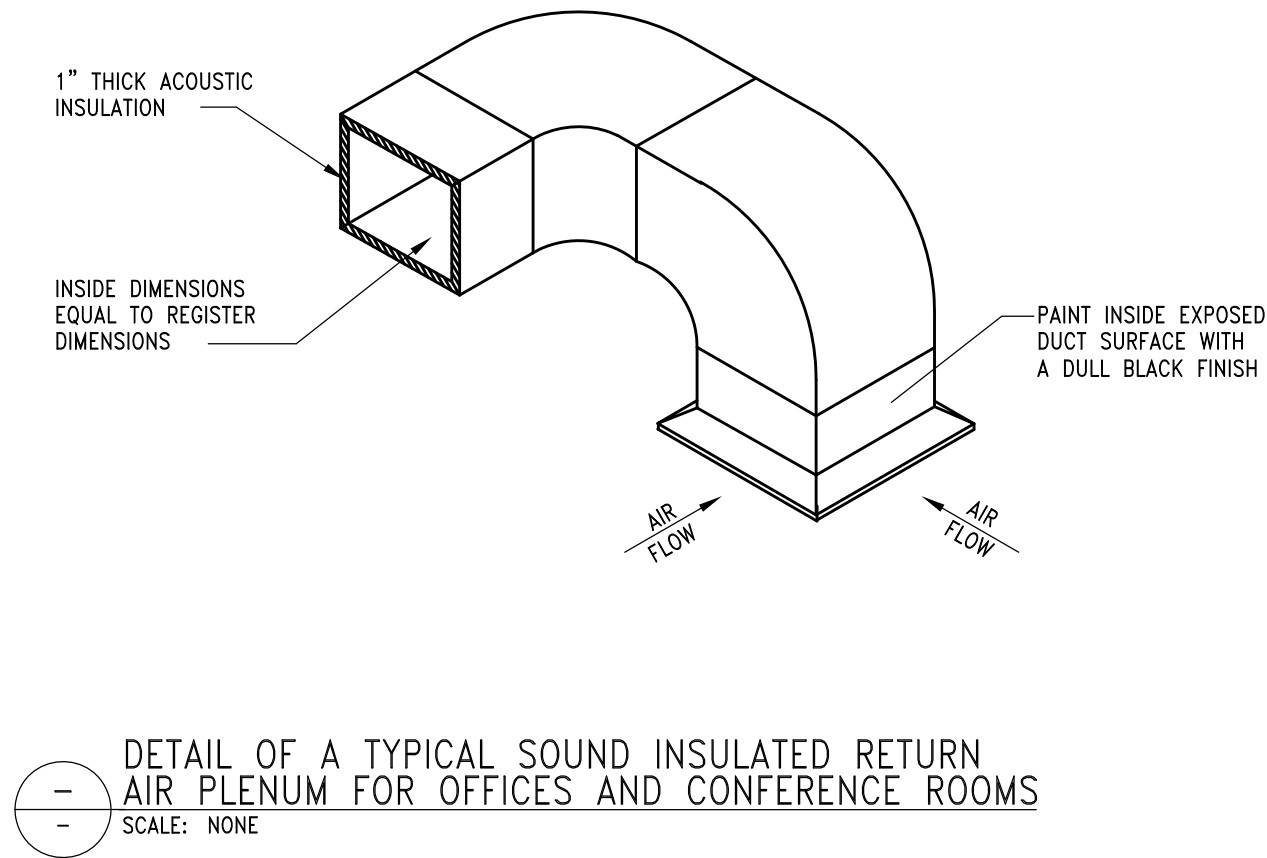
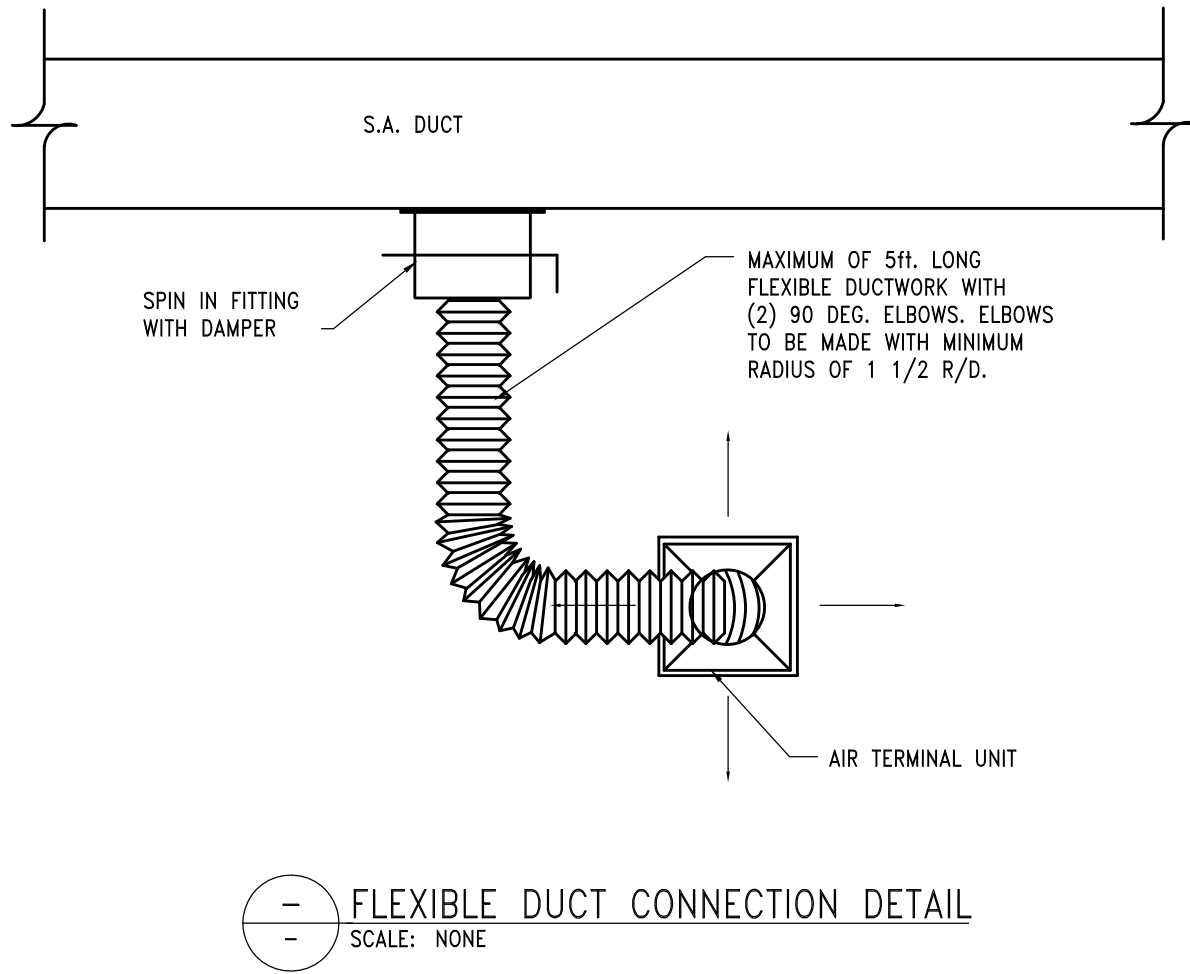
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GRILLE, REGISTER AND DIFFUSER SCHEDULE							
TAG	MANUFACTURER & MODEL NO.	SERVICE	MOUNTING	OVERALL SIZE	NECK SIZE	CONSTRUCTION	NOTES/ACCESSORIES
S-1	TITUS OMNI	SAD	CEILING LAY-IN	24x24	SEE PLAN	--	A
R-1	TITUS 50F	RAG	CEILING LAY-IN	12x24	SEE PLAN	--	A C
<div>KEY:</div> <div>SAD - CEILING OR WALL SUPPLY DIFFUSER SAG - CEILING OR WALL SUPPLY GRILLE TAG - WALL TRANSFER GRILLE</div> <div>RAR - CEILING OR WALL RETURN REGISTER RAG - CEILING OR WALL RETURN GRILLE EAG - CEILING OR WALL EXHAUST GRILLE</div>							
NOTES AND ACCESSORIES DESIGNATION							
A	WHITE			C	PROVIDE FLAT BLACK PAINTED BACK PLENUM		
B	BLADE PARALLEL TO SHORT DIMENSION			D	--		



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MECHANICAL SCHEDULES AND  
DETAILS

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MECHANICAL SPECIFICATION

MECHANICAL MATERIALS, METHODS AND EXECUTION WORK INCLUDED:

WORK INCLUDED:

- A. FURNISH ALL LABOR AND MATERIAL, APPLIANCES, EQUIPMENT AND SUPERVISION TO PUT IN PLACE A COMPLETE AND FUNCTIONING MECHANICAL INSTALLATION READY FOR OPERATION, AS SPECIFIED HEREIN AND AS INDICATED ON THE DRAWINGS. SYSTEMS SHALL INCLUDE BUT NOT NECESSARILY LIMITED TO THE FOLLOWING MAJOR EQUIPMENT OR OPERATIONS:
1. HEATING, VENTILATING AND AIR CONDITIONING.

DEFINITIONS:

- A. "PROVIDE": TO FURNISH AND COMPLETELY INSTALL SPECIFIED PRODUCTS AND INCIDENTALS, WHETHER SPECIFICALLY INDICATED OR NOT, NECESSARY FOR A COMPLETE, FUNCTIONAL INSTALLATION. INCLUDES ALL GENERAL AND SPECIALIZED LABOR, EQUIPMENT AND TOOLS NECESSARY TO COMPLETE THE INSTALLATION.
- B. "PIPING": A COMPLETE SYSTEM, INCLUDING PIPE, TUBING, FITTINGS, HANGERS, SUPPORTS, VALVES, AND ALL SPECIALTIES THAT COMPRISE A FULLY FUNCTIONAL PIPING SYSTEM, WHETHER SPECIFICALLY INDICATED OR NOT.

CODES, ORDINANCES, AND STANDARDS:

- A. ALL WORK SHALL CONFORM IN ALL RESPECTS TO THE REQUIREMENTS OF THE LATEST ADOPTED FEDERAL, STATE AND LOCAL CODES, ORDINANCES, AND STANDARDS HAVING JURISDICTION OVER THE WORK.
- B. WHERE CONTRACT DOCUMENT REQUIREMENTS EXCEED THE REQUIREMENTS OF THE REFERENCED CODES, ORDINANCES, AND STANDARDS, THE CONTRACT DOCUMENT REQUIREMENTS SHALL BE TAKEN AS MINIMUM.
- C. ALL EQUIPMENT CONTAINING ELECTRICAL WIRING AND/OR ELECTRICAL COMPONENTS SHALL HAVE A UNDERWRITERS LABORATORIES (UL) "PACKAGE" LABEL.
- D. ALL GAS FIRED EQUIPMENT SHALL HAVE THE AMERICAN GAS ASSOCIATION (AGA) LABEL.

PERMITS, FEES AND INSPECTIONS:

- A. SECURE ALL NECESSARY PERMITS, CONNECTION FEES, TAD FEES, LICENSES AND APPROVALS AND ARRANGE FOR ALL INSPECTIONS, INCLUDE ALL RELATED COSTS.
- B. FURNISH CERTIFICATES OF FINAL INSPECTION AND APPROVAL UPON COMPLETION OF PROJECT.

EXAMINATION OF SITE:

- A. VISIT PROJECT SITE AND BECOME FULLY COGNIZANT OF ALL EXISTING ARCHITECTURAL, MECHANICAL, ELECTRICAL, STRUCTURAL AND SITE CONDITIONS, OR EXISTING CODE VIOLATIONS WHICH MAY AFFECT THE WORK.
- B. NOTIFY ARCHITECT PRIOR TO SUBMITTING BID IF REVISIONS TO CONTRACT DOCUMENTS ARE NECESSARY TO RECTIFY ANY OF THE AFOREMENTIONED EXISTING CONDITIONS.
- C. NO "EXTRAS" TO CONTRACT PRICE WILL BE ALLOWED AFTER RECEIVING BID IN ORDER TO RECTIFY EXISTING CONDITIONS IN ORDER TO MEET THE DESIGN INTENT OF THE CONTRACT DOCUMENTS OR SATISFY CODE REQUIREMENTS.

COORDINATION WITH OTHER TRADES:

- A. COORDINATE ALL WORK BEFORE AND DURING CONSTRUCTION WITH ALL OTHER AFFEATED TRADES.
- B. WHERE INTERFERENCES DEVELOP, NOTIFY ARCHITECT FOR RESOLUTION OF CONFLICT.
- C. RELOCATION OF CONFLICTING INSTALLED WORK, DUE TO LACK OF COORDINATION, OR POOR COORDINATION WILL NOT BE CONSIDERED EXTRA WORK.

APPROVED MANUFACTURERS:

- A. USE ONLY MATERIALS SPECIFICALLY INDICATED IN CONTRACT DOCUMENTS, OR COMPARABLE MATERIALS BY OTHER LISTED ACCEPTABLE MANUFACTURERS. NOTE THAT "ACCEPTABLE MANUFACTURER" DOES NOT CONSTRUE AUTOMATIC APPROVAL OF SPECIFIC MATERIALS BY ONE OR ALL OF THE LISTED ACCEPTABLE MANUFACTURERS. ARCHITECT AND/OR ENGINEER OF RECORD RESERVES THE RIGHT OF FINAL DETERMINATION OF ACCEPTABILITY OF EACH ITEM.

SHOP DRAWINGS:

- A. SUBMIT COMPLETE SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT INTENDED FOR USE ON THIS PROJECT.
- B. SHOP DRAWINGS SHALL CLEARLY INDICATE ALL PHYSICAL, PERFORMANCE AND ELECTRICAL CHARACTERISTICS FOR ALL MATERIALS AND EQUIPMENT.
- C. SUBMIT ELECTRONIC COPY OF ALL SHOP DRAWINGS FOR REVIEW.
- D. NO WORK IS TO BE INSTALLED PRIOR TO RETURN OF ARCHITECT REVIEWED SHOP DRAWINGS.

OPERATION AND MAINTENANCE MANUALS:

- A. UPON COMPLETION OF PROJECT, SUBMIT TWO (2) COMPLETE BOUND SETS OF OPERATING AND MAINTENANCE MANUALS FOR ALL EQUIPMENT AND SYSTEMS INSTALLED IN THIS PROJECT.
- B. MANUALS SHALL INCLUDE GUARANTEE(S), COMPLETE OPERATING INSTRUCTIONS, REPAIR PARTS LIST, PREVENTATIVE MAINTENANCE SCHEDULE, BELT AND FILTER SCHEDULE, AND LIST OF ALL SUBCONTRACTORS ASSOCIATED WITH THE WORK, INCLUDING TELEPHONE NUMBER AND CONTACT PERSON.

OPERATING AND MAINTENANCE INSTRUCTIONS:

- A. PRIOR TO FINAL ACCEPTANCE BY OWNER, PROVIDE ALL PERSONNEL, EQUIPMENT, AND LABOR AS NECESSARY TO INSTRUCT OWNER'S PERSONNEL IN PROPER OPERATION AND MAINTENANCE OF THE SYSTEMS AND EQUIPMENT INSTALLED IN THIS PROJECT. PROVIDE INSTRUCTIONAL SESSION DURING TIME PERIOD AGREED TO WITH OWNER.

CUTTING AND PATCHING:

- A. ALL CUTTING AND PATCHING SHALL BE PROVIDED BY THE GENERAL TRADES UNDER THE DIRECTION OF THE MECHANICAL TRADES. COST WILL BE PAID BY THE MECHANICAL TRADE, REQUESTING THE WORK.
- B. RESTORED SURFACES SHALL BE OF SAME MATERIALS AND QUALITY AS ADJACENT SURFACES, AND SHALL MATCH SURROUNDING SURFACES, AND/OR BE RESTORED TO PRE-CONSTRUCTION CONDITION.

PROTECTION OF EXISTING SERVICES:

- A. PROTECT FROM ALL DAMAGE, EXISTING SERVICES (I.E., GAS, WATER, ELECTRICAL, ETC.), ENCOUNTERED IN THE WORK, NOT SPECIFICALLY INDICATED TO BE DEMOLISHED. INCLUDE ALL RELATED COSTS.
- B. REPAIR AND/OR REPLACE EXISTING ACTIVE SERVICES INTENDED TO REMAIN IN SERVICE, BUT DAMAGED DURING THE COURSE OF CONSTRUCTION. ABSORB ALL RELATED COSTS. NO "EXTRAS" WILL BE PAID TO RESTORE EXISTING ACTIVE SERVICES DAMAGED DURING CONSTRUCTION.
- C. ARCHITECT WILL DETERMINE COURSE OF ACTION WHEN EXISTING INACTIVE SERVICES ARE DAMAGED DURING COURSE OF CONSTRUCTION. ABSORB ALL COSTS RELATIVE TO ADDITIONAL DEMOLITION, TERMINATION, RELOCATION AND/OR RESTORATION OF EXISTING, DAMAGED INACTIVE SERVICES AS DIRECTED BY ARCHITECT.

ELECTRICAL WORK:

- A. PROVIDE ALL ELECTRICAL WORK ASSOCIATED WITH, AND NECESSARY TO COMPLETE THIS PROJECT, WHICH IS NOT INCLUDED AS ELECTRICAL TRADES WORK.
- B. PROVIDE ALL ELECTRICAL WORK, AS APPLICABLE, IN ACCORDANCE WITH DIVISION 16 REQUIREMENTS.
- C. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION (WITH ELECTRICAL TRADES) OF CORRECT VOLTAGES FOR ALL MECHANICAL EQUIPMENT. IN CASE OF DISCREPANCY, NOTIFY ENGINEER IMMEDIATELY AND PRIOR TO SHOP DRAWING SUBMITTALS. FAILURE TO COMPLY WITH THIS REQUIREMENT HOLDS THE CONTRACTOR FULLY RESPONSIBLE FOR ANY SUBSEQUENT PROBLEMS

CLEANING AND FINISHING:

- A. PRIOR TO FINAL ACCEPTANCE BY OWNER, THOROUGHLY CLEAN ALL WORK INSIDE AND OUT AS APPLICABLE, AND LEAVE ALL SYSTEMS AND EQUIPMENT IN PERFECT WORKING ORDER. THOROUGHLY CLEAN ALL PLUMBING FIXTURES, EXPOSED PIPING, FLOOR DRAIN GRATES, AND CLEANOUT COVERS AS APPLICABLE.

GUARANTEE:

- A. REFER TO ARCHITECTURAL SPECIFICATIONS FOR GUARANTEES, IF NONE EXIST THE FOLLOWING MINIMUM GUARANTEES SHALL BE PROVIDED.
1. PROVIDE A ONE (1) YEAR GUARANTEE COVERING ALL LABOR AND MATERIAL PROVIDED IN THIS PROJECT. GUARANTEE SHALL INCLUDE ALL SHIPPING AND TRANSPORTATION CHARGES NECESSARY TO RETURN DEFECTIVE MATERIALS TO MANUFACTURER, AS WELL AS LABOR CHARGES NECESSARY TO REMOVE AND REPLACE DEFECTIVE MATERIALS.
  2. PROVIDE 5 YEAR GUARANTEE FOR ALL COMPRESSORS.
  3. DEFECTIVE MATERIALS AND/OR EQUIPMENT MAY BE REPAIRED IN LIEU OF REPLACED WITH PRIOR APPROVAL OF ARCHITECT AND/OR OWNER.

PIPING:

SANITARY WASTE AND VENT PIPE AND FITTINGS:

BELOW GRADE AND/OR BELOW FLOOR SLABS WITHIN BUILDING WALLS AND EXTENDING 5'-0" OUTSIDE:

UP TO 6" DIAMETER:  
PIPE: ASTM D2565 SCHEDULE 40 PVC-DWV INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.  
FITTINGS: ASTM D1554 SOLVENT CEMENTED.  
SOLVENT CEMENT: ASTM D2564.  
INSTALLATION: IN ACCORDANCE WITH ASTM D2321.

ABOVEGROUND SANITARY WASTE AND VENT PIPING AND FITTINGS:

PIPE 4" AND UNDER: ASTM A-53, SCHEDULE 40, GALVANIZED STEEL.  
PIPE OVER 4": ASTM A-53, SCHEDULE 40, GRADE A AND GRADE B, SEAMLESS OR ERW GALVANIZED STEEL.  
FITTINGS: ANSI B2.1 THREADS.

PIPE AND FITTINGS: CAST IRON HUBLESS SOIL PIPE AND FITTINGS CONFORMING TO THE REQUIREMENTS OF CISPI STANDARD 310 AND LOCAL CODE REQUIREMENTS. HUBLESS COUPLING GASKETS SHALL CONFORM TO ASTM STANDARD C-564.

STORM WATER PIPE AND FITTINGS:

BELOW GRADE AND/OR BELOW FLOOR SLABS WITHIN BUILDING WALLS AND EXTENDING 5'-0" OUTSIDE:

UP TO 6" DIAMETER:  
PIPE: ASTM D2565 SCHEDULE 40 PVC-DWV INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.  
FITTINGS: ASTM D1554 SOLVENT CEMENTED.  
SOLVENT CEMENT: ASTM D2564.  
INSTALLATION: IN ACCORDANCE WITH ASTM D2321.

ABOVEGROUND STORM PIPE AND FITTINGS:

PIPE 4" AND UNDER: ASTM A-53, SCHEDULE 40, GALVANIZED STEEL.  
PIPE 4" AND UNDER: ASTM A-53, SCHEDULE 40, GALVANIZED STEEL.  
PIPE OVER 4": ASTM A-53, SCHEDULE 40, GRADE A OR GRADE B, SEAMLESS OR ERW, GALVANIZED STEEL.  
FITTINGS: ANSI B16.12 CAST IRON THREADED DRAINAGE FITTINGS.  
JOINTS: ANSI B2.1 THREADS.

PIPE AND FITTINGS: CAST IRON HUBLESS SOIL PIPE AND FITTINGS CONFORMING TO THE REQUIREMENTS OF CISPI STANDARD 310 AND LOCAL CODE REQUIREMENTS. HUBLESS COUPLING GASKETS SHALL CONFORM TO ASTM STANDARD C-564.

UNDERGROUND SEWERS (SANITARY AND STORM) ON SITE EXTENDING BEYOND 5 FEET OUTSIDE OF BUILDING SHALL BE PROVIDED BY SITE UTILITIES CONTRACTOR.

SHEET METAL NOTES:

INSTALL TRANSFER GRILLES IN ALL FULL HEIGHT PARTITIONS TO ALLOW RETURN AIR FLOW. SIZE PER MECHANICAL ENGINEER REQUIREMENTS. THESE SHALL BE FIRE DAMPERS IN RATED WALLS.

BLANK-OFF RETURN DUCTWORK IN AREAS OF WORK THAT CREATES DUST TO PREVENT DEBRIS FROM ENTERING MECHANICAL SYSTEM.

LOW PRESSURE DUCTWORK: ALL DUCTWORK ON DISCHARGE OF HVAC UNIT, ALL RETURN AIR DUCTWORK AND EXHAUST AIR DUCTWORK SHALL BE CONSTRUCTED AND SUPPORTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST SMACNA'S ISSUE OF "LOW PRESSURE DUCT CONSTRUCTION STANDARDS".

IN ADDITION, ALL JOINTS AND SEAMS SHALL BE SEALED WITH DUCT SEALANT EQUAL TO FOSTER #32-14. APPROVED SEALANT MANUFACTURERS: 3M COMPANY, BENJAMIN FOSTER COMPANY, UNITED SHEET METAL, FLINTKOTE.

FLEXIBLE CONNECTIONS:

AT EACH POINT OF CONNECTION OF DUCTWORK TO FANS, PROVIDE A FLEXIBLE CONNECTION, VENTFABRICS, INC., "VENTGLAS L.A." NOT LESS THAN 12" IN LENGTH AND MADE OF HEAVY GRADE GLASS FABRIC DOUBLE COATED WITH NEOPRENE AND PROVIDED WITH A SUITABLE FRAME AT EACH END ARRANGED FOR BOLTING TO INLET AND OUTLET OF FAN AND DUCTWORK, RESPECTIVELY.

FLEXIBLE DUCTWORK:

ALL LOW PRESSURE AND HIGH PRESSURE FLEXIBLE DUCT SHALL BE FLEXMASTER USA, INC., TYPE #8M INSULATED FLEXIBLE DUCT CONSISTING OF A FACTORY FABRICATED ASSEMBLY OF A TRILAMINATE ALUMINUM FOIL, FIBERGLASS AND POLYESTER. THE FLEXIBLE DUCT SHALL BE UL LISTED 181 CLASS 1 AIR DUCT AND COMPLY WITH NFPA 90A AND 90B AND HAVE A FLAME SPREAD OF NOT OVER 25 AND A SMOKE DEVELOPED OF NOT OVER 50. THE FLEXIBLE DUCT SHALL HAVE A MINIMUM PRESSURE RATING OF 12" WC THROUGHOUT TEMPERATURE RANGE OF -20 DEGREES F. TO + 250 DEGREES F.

DUCT INSULATION:

ACOUSTICAL LINING:  
ACOUSTIC INSULATION SHALL BE JOHNS-MANVILLE OR EQUAL "LINACUSTIC" WITH A .70 NRC, 1-1/2"/CU.FT. MINIMUM DENSITY, 1" THICK UNLESS OTHERWISE NOTED. INSULATION SHALL BE SUITABLE FOR VELOCITIES OF 5,000 FPM, ABSOLUTE ROUGHNESS FACTOR SHALL NOT EXCEED .0008 FEET. SCOPE: DUCTWORK AND EQUIPMENT LISTED BELOW AND/OR NOTED ON THE CONTRACT DOCUMENTS SHALL BE ACOUSTICALLY LINED.  
RECTANGULAR SUPPLY DUCTWORK FROM ALL TERMINAL BOXES TO GRILLES, REGISTERS AND DIFFUSERS. ROUND DUCTWORK ON DISCHARGE ON TERMINAL BOXES SHALL BE INSULATED EXTERNALLY UNLESS OTHERWISE NOTED.

TESTING AND BALANCING:

TEST AND ADJUST ALL NEW PIPING SYSTEMS INSTALLED IN THIS PROJECT. PROVIDE ALL TESTING INSTRUMENTS, GAUGES, PUMPS AND OTHER EQUIPMENT REQUIRED OR NECESSARY FOR TEST. REPAIR ALL DEFECTS DISCLOSED BY TESTS WITHOUT ADDITIONAL COST TO THE OWNER. REPEAT TESTS AFTER ANY DEFECTS DISCLOSED ARE REPAIRED OR REPLACED, UNLESS WAIVED BY ARCHITECT. ARRANGE AND PAY THE COST OF ALL UTILITIES USED ON TESTS. COMPLETE ALL TESTS BEFORE COVERING IS APPLIED. ISOLATE ALL PIPING SYSTEM COMPONENTS NOT CONSTRUCTED TO WITHSTAND TEST PRESSURES.

AIR BALANCING:

BALANCE ALL OUTLETS AND TERMINAL BOXES TO WITHIN 10% OF RATED C.F.M IN ACCORDANCE WITH AABC AND NEBB, SUBMIT BALANCING REPORT.



STUCKY VITALE ARCHITECTS  
27172 WOODWARD AVENUE  
ROYAL OAK, MI 48067-0925  
P. 248.546.6700  
F. 248.546.8454  
WWW.STUCKYVITALE.COM

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Consultants



Seal:



Project :

WSU- DETROIT- UGL  
1ST FLOOR STUDENT  
REFRESH

5155 GULLEN MALL.,  
DETROIT, MI 48202

Key Plan:

5155 GULLEN MALL.,  
DETROIT MI 48202

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MJ

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SS

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MECHANICAL SPECIFICATIONS

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M400



ELECTRICAL LEGEND \*

*A*	FIXTURE TYPE	
	1x4 LIGHT FIXTURE	
	POLE MOUNTED LIGHTING FIXTURE	
	STRIP LIGHTING FIXTURE	
	2'X2' OR 2'X4' LIGHTING FIXTURE	
	FULL SHADED LIGHTING FIXTURES ARE WIRED UNSWITCHED NIGHT LIGHTS	
	HALF SHADED FIXTURES ARE FIXTURES PROVIDED WITH BUILT-IN EMERGENCY BATTERY PACK FOR EGRESS LIGHTING	
	RECESSED DOWN LIGHT	
	WALL MOUNTED LIGHTING FIXTURE	
	TRACK LIGHTING FIXTURE	
	EXIT LIGHTING FIXTURE -- SHADING INDICATES ILLUMINATED FACE (S) CHEVRONS AS INDICATED	
	EMERGENCY LIGHTING UNIT	
	COMBINATION OF EXIT AND EMERGENCY LIGHTING UNIT	
S	SINGLE POLE LIGHT SWITCH	
S3	THREE WAY LIGHT SWITCH	
S4	FOUR WAY LIGHT SWITCH	
Sk	KEY OPERATED SWITCH	
SF	LIGHT SWITCH WITH PILOT LIGHT	
SFS	THREE WAY LIGHT SWITCH WITH PILOT LIGHT	
Sb	DIMMER SWITCH, COMPATIBLE WITH LIGHTS CONTROLLED	
SmD	DIMMER SWITCH WITH WALL OCCUPANCY SENSOR (SINGLE POLE)	
Sds	THREE WAY LIGHT SWITCH WITH DIMMER	
St	TIMER SWITCH	
Slv	LOW VOLTAGE CONTROL STATION WITH DIMMING CAPABILITIES, NUMBER OF BUTTONS AS INDICATED TO PROVIDE, PRESET SCENES, RISER, LOWER, ON, OFF CONTROL FOR ZONES INDICATED, COORDINATE WITH LIGHT DIMMING CONTRACTOR FOR DEVICE MODEL NUMBERS, QUANTITIES, LOCATIONS, AND ADDITIONAL REQUIREMENTS.	
	RELAY PACK WITH 0-10V DIMMING OUTPUT	
	CEILING MOUNTED OCCUPANCY SENSOR. DUAL TECHNOLOGY (PASSIVE INFRARED AND MICROPHONIC/ULTRASONIC), WITH AUXILIARY RELAY FOR HVAC CONTROL. PROVIDE QUANTITY OF 20A, 120V/277V RATED POWER PACKS AND RELAY PACKS AS REQUIRED TO CONTROL SWITCH LEGS INDICATED. ALL FIXTURES IN ROOM/SPACE ARE TO BE CONTROLLED BY THE SENSORS.	
Sw	WALL MOUNTED VACANCY SENSOR, SINGLE POLE. DUAL TECHNOLOGY (PASSIVE INFRARED AND MICROPHONICS/ULTRASONIC), 120/277V. SWITCH IS RATED 800W AT 120V AND 1200W AT 277V, 1/4 HP. IVORY WITH STAINLESS STEEL COVERPLATE. FACTORY COLOR-MATCHED PLATE IS NOT ACCEPTABLE.	
Sw2	SAME AS Sw EXCEPT WITH DUAL POLE	
	SINGLE RECEPTACLE	
	DUPLEX RECEPTACLE	
	QUADRIPLEX RECEPTACLE	
	DUPLEX RECEPTACLE WITH GROUND FAULT (GFCI)	
	FACELESS GROUND FAULT CIRCUIT INTERRUPTER	
	SAME AS DUPLEX RECEPTACLE EXCEPT CEILING MOUNTED	
	SAME AS DUPLEX RECEPTACLE EXCEPT SHOW WINDOW TO BE MOUNTED 6" ABOVE WINDOW, COORDINATE WITH OWNER/ ARCHITECT PRIOR TO INSTALLATION	
	COMBINATION DUPLEX POWER RECEPTACLE AND TWO USB PORTS	
	SAME AS DUPLEX RECEPTACLE EXCEPT HORIZONTALLY MOUNTED	
	SPLIT RECEPTACLES	
	FLOOR RECEPTACLE	
	COMMERCIAL GRADE CORD REEL WITH GFCI MOUNTED TO STEEL STRUCTURE	
	SPECIAL PURPOSE RECEPTACLE -- NEMA TYPE	
	SPECIAL PURPOSE RECEPTACLE -- NEMA TYPE ON A CORD REEL MOUNTED TO STEEL STRUCTURE	
	DUPLEX RECEPTACLE FLOOR MOUNTED	
	CEILING JUNCTION BOX	
	WALL JUNCTION	
	PUSH BUTTON STATION (1, 2, OR 3 BUTTON)	
	DOOR ACTIVATOR PUSH PLATE	
	ELECTRIC CLOCK OUTLET	
	COMBINATION DATA AND TELEPHONE OUTLET	
	PHONE OUTLET SAME AS COMBINATION VOICE/DATA (NEMA WALL MOUNTED AT 48")	
	DATA OUTLET	
	TELEVISION OUTLET, DOUBLE GANG BOX WITH SINGLE MUD RING AND 1" TO CEILING SPACE	
	AUDIO/VIDEO OUTLET, DOUBLE GANG BACK BOX WITH 1 1/4" TO ABOVE ACCESSIBLE CEILING, TERMINATE CONDUIT WITH INSULATING BUSHING, PROVIDE PULL STRING	
	FLOOR MOUNTED THREE GANG (3G) FLUSH BOX, DUPLEX RECEPTACLE, A/V & DATA/PHONE COMPARTMENTS	
	DUPLEX RECEPTACLE & DATA/PHONE FLUSH FLOOR MOUNTED TWO GANG (2G) COMPLETE WITH FLANGE AND COVER	
	CEILING MOUNTED TWO GANG (2G) FLUSH BOX, DUPLEX RECEPTACLE & DATA/PHONE COMPARTMENTS	
	MULTI-SERVICE STAMPED STEEL FLUSH FLOOR BOX -- TYPE F1 -- WITH (2)-20A DUPLEX RECEPTACLES & (2) DATA COMPARTMENT, WIREMOLD #RFB4 SERIES OR APPROVED EQUAL BY HUBBELL	
	MULTI-SERVICE STAMPED STEEL FLUSH FLOOR POKE-THROUGH BOX -- TYPE F2 -- WITH (2)-20A DUPLEX RECEPTACLES & (2) DATA COMPARTMENT, WIREMOLD OR APPROVED EQUAL BY HUBBELL.	
	FLOOR MOUNTED TWO GANG (2G) FLUSH BOX WITH SEPARATE POWER AND DATA COMPARTMENTS FOR FURNITURE CONNECTION	
	FIRE RATED FLUSH FLOOR POKE THRU WITH SEPARATE POWER AND DATA COMPARTMENTS FOR FURNITURE CONNECTION SIMILAR TO LEGRAND 4FFATC.	

	FIRE RATED FLUSH FLOOR POKE THRU WITH DUPLEX OR QUAD RECEPTACLE & LOW VOLTAGE COMPARTMENTS SIMILAR TO LEGRAND RC7 OR RC4.		
	FIRE RATED RECESSED DEEP FLOOR POKE THRU WITH DUPLEX OR QUAD RECEPTACLE & LOW VOLTAGE COMPARTMENTS SIMILAR TO LEGRAND EVOLUTION 6 SERIES.		
	JUNCTION BOX FOR FLEXIBLE CONNECTION TO SYSTEMS (P: POWER, D: DATA). FURNITURE WHIP PROVIDED BY FURNITURE SUPPLIER. FOR NEW WORK PROVIDE 1" OR 1 1/4" FOR DATA TO ABOVE ACCESSIBLE CEILING. UNLESS OTHERWISE NOTED, COORDINATE LOCATION WITH FURNITURE SYSTEM SUPPLIER. PROVIDE FINAL CONNECTION AND COVERPLATE SUITABLE FOR WHIP CONNECTION.		
	DISTRIBUTION PANEL		
	SURFACE MOUNTED LIGHTING AND/OR RECEPTACLE PANEL		
	RECESSED MOUNTED LIGHTING AND/OR RECEPTACLE PANEL		
	MOLDED CASE CIRCUIT BREAKER -- SURFACE MOUNTED IN NEMA ENCLOSURE		
	MOLDED CASE CIRCUIT BREAKER -- FLUSH MOUNTED IN NEMA ENCLOSURE		
	MOTOR -- SINGLE PHASE		
	MOTOR -- THREE PHASE		
	MANUAL SINGLE PHASE MOTOR STARTER WITH PILOT LIGHT, LOCKABLE OFF, FOR MOTOR APPLICATIONS. MANUAL SINGLE PHASE MOTOR SWITCH WITH PILOT LIGHT, LOCKABLE OFF AND WITHOUT OVERLOADS FOR DISCONNECT APPLICATIONS TO EQUIPMENT NOT REQUIRING OVERLOADS AND FOR APPLICATIONS WHERE OVERLOADS ARE INTEGRAL TO MOTOR-BASED LOADS. FLUSH MOUNT STARTERS / SWITCHES IN FINISHED SPACES. SURFACE MOUNT IN UNFINISHED SPACES.		
	NON-FUSIBLE DISCONNECT SWITCH		
	FUSIBLE DISCONNECT SWITCH		
	THREE PHASE COMBINATION MAGNETIC FUSIBLE MOTOR STARTER		
	BUS PLUG FUSIBLE DISCONNECT SWITCH		
	TRANSFORMER		
	CONTACTOR		
	METER		
	GROUND		
	HOMERUN TO LIGHTING PANEL		
	CABLE TRAY		
	PLUG-IN STRIP		
EF	EXHAUST FAN	EW	ELECTRIC WATER COOLER
EDH	ELECT. DUCT HTR.	AF	ABOVE FINISHED FLOOR
A	ABOVE COUNTER	WP	WEATHERPROOF
A/E	ARCHITECT / ENGINEER	RT	RAINTIGHT
CM	COFFEE MAKER	UFD	UNDER FLOOR DUCT
MW	MICROWAVE	FPB	FAN POWER BOX
HOA	HAND-OFF-AUTOMATIC	DW	DISHWASHER
PC	PHOTOCCELL	GD	GARBAGE DISPOSAL
HG	HOSPITAL GRADE	REF	REFRIGERATOR
UH	UNIT HEATER	(E)	EXISTING TO REMAIN
UON	UNLESS OTHERWISE NOTED	(RE)	RELOCATED EXISTING
EG	EQUIPMENT GROUND	IG	ISOLATED GROUND
H	HORIZONTALLY MOUNT 6" ABOVE COUNTER BACK SPLASH		
GFI or GFR	GROUND FAULT CIRCUIT INTERRUPTER		
	POWER POLE VOICE/DATA/POWER		
	AUDIO/VISUAL HEAD END EQUIPMENT		
	DRIVER FOR 24V UNDER CABINET LED LIGHT		
	CARD READER		
	INTERCOM OUTLET		
	PHOTOELECTRIC CONTROLLER		
	COMBINE PARTITION SENSOR		
	WIRELESS ACCESS PANEL		
	POWER POLE VOICE/DATA/POWER		
	CONTROL PANEL, PROVIDE AS PART OF THE EQUIPMENT THEY CONTROL		
	TIME SWITCH		
	BELL		
	RADIO ALERT SYSTEM BELL		
	DOOR SWITCH		
	INTERCOM STATION		
	EMERGENCY POWER OFF PUSHBUTTON		
	FIRE ALARM CONTROL PANEL		
	FIRE ALARM ANNUNCIATOR PANEL		
	NOTIFICATION APPLIANCE CONTROL PANEL		
	MICROPHONE		
	CEILING MOUNTED SPEAKER		
	VOLUME CONTROL DIAL		
	SMOKE DETECTOR		
	HEAT DETECTOR		
	TAMPER SWITCH		
	FLOW SWITCH		
	OUTDOOR FIRE DEPARTMENT CONNECTION -- AUDIO VISUAL DEVICE		
	MAGNETIC DOOR HOLDER		
	DUCT SMOKE DETECTOR		
	COMBINATION SMOKE/CO DETECTOR		
	MANUAL FIRE ALARM STATION		
	FIRE ALARM STROBE		
	FIRE ALARM HORN/STROBE		
	FIRE ALARM HORN/STROBE -- CEILING MOUNTED		
	FIRE ALARM STROBE -- CEILING MOUNTED		

\* THIS IS STANDARD SYMBOL LIST -- SOME OF THESE SYMBOL MAY NOT APPEAR ON DRAWINGS.

ELECTRICAL SHEET INDEX	
SHEET	DESCRIPTION
E001	ELECTRICAL LEGEND, SHEET INDEX AND DETAILS
E002	ELECTRICAL SPECIFICATION
E003	ELECTRICAL PANEL SCHEDULES-1
E004	ELECTRICAL PANEL SCHEDULES-2
ED110	DEMOLITION LIGHTING PLAN -- LEVEL 1
ED210	DEMOLITION POWER PLAN -- LEVEL 1
E110	LIGHTING PLAN -- LEVEL 1
E210	POWER PLAN -- LEVEL 1



STUCKY VITALE ARCHITECTS  
27172 WOODWARD AVENUE  
ROYAL OAK, MI 48067-0925  
P. 248.546.6700  
F. 248.546.8454  
WWW.STUCKYVITALE.COM

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Consultants



Seal:



Project :

WSU- DETROIT- UGL  
1ST FLOOR STUDENT  
REFRESH

5155 GULLEN MALL.,  
DETROIT, MI 48202

Key Plan:

5155 GULLEN MALL.,  
DETROIT MI 48202

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ELECTRICAL LEGEND, SHEET  
INDEX AND DETAILS

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E001



ELECTRICAL SPECIFICATION:

GENERAL REQUIREMENTS:

ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE, LATEST EDITION, AND ALL LOCAL AND STATE AUTHORITIES HAVING JURISDICTION THEREOF.

ALL EQUIPMENT SHALL BE SPECIFICATION GRADE AND SHALL HAVE U.L. LABEL FOR INTENDED USE.

ELECTRICAL SYSTEMS SHALL BE COMPLETE IN EVERY DETAIL, INCLUDING ALL INCIDENTAL ITEMS FOR A PROPER AND FUNCTIONING INSTALLATION SUBJECT TO FINAL APPROVAL OF ARCHITECT/ENGINEER.

ALL REQUIRED PERMIT AND INSPECTIONS SHALL BE OBTAINED BY CONTRACTOR AND SUCH COSTS SHALL BE INCLUDED IN BID PRICE FOR THIS WORK.

PROVIDE UL LISTED SYSTEM FOR FIRE STOPPING PENETRATIONS THROUGH FIRE RATED ASSEMBLIES. PROVIDE SYSTEM WITH EQUAL OR GREATER RATING THAN ASSEMBLY. REFER TO ARCHITECTURAL DOCUMENTS FOR RATINGS AND LOCATIONS OF ASSEMBLIES.

EXAMINATION OF SITE IS MANDATORY. CONTRACTOR IS HEREBY HELD TO HAVE EXAMINED THE SITE AND HAVE INCLUDED IN HIS BID PRICE ALL COSTS DUE TO SITE AND FIELD CONDITIONS.

COMPLETE IDENTIFICATION OF PROJECT ELECTRICAL COMPONENTS IS REQUIRED. IDENTIFY ALL PANELS, DISCONNECTS, CONTROL DEVICES, ETC., WITH THE NOMENCLATURE INDICATED ON THE DOCUMENTS AND WITH POWER SOURCE AND ELECTRICAL RATINGS USING PLASTIC LAMINATE NAMEPLATE. INSTALL TYPEWRITTEN DIRECTORIES OF ALL CIRCUITS ON INSIDE OF PANELS. IDENTIFY WIRING DEVICE COVERPLATES WITH PANELBOARD AND BRANCH CIRCUIT NUMBER SERVING DEVICE, E.G. "A-15". PROVIDE 1/2" MACHINE-WRITTEN BLACK LETTERING ON CLEAR PLASTIC ADHESIVE TAPE. LOCATE ON BOTTOM FRONT OF COVERPLATE. CENTERED BELOW WIRING DEVICE(S). SUBMIT SAMPLE OF LABELED TAPE WITH WIRING DEVICE/COVERPLATE SUBMITTAL. SAMPLE MAY BE ADHERED TO PAPERWORK IN SUBMITTAL, RATHER THAN TO A COVERPLATE.

PROVIDE TEMPORARY POWER AND LIGHTING DURING CONSTRUCTION. REMOVE TEMPORARY WIRING UPON COMPLETION OF THE PROJECT. TEMPORARY SERVICES SHALL BE AS REQUIRED, BY N.E.C. AND OSHA. CONTRACTOR IS RESPONSIBLE TO MEET WITH UTILITY TO FOR TEMPORARY POWER PROVISION AND ALL REQUIRED SKID UNITS.

GROUND CONTINUITY SHALL BE MAINTAINED THROUGHOUT THE ELECTRICAL SYSTEM. INSTALL EQUIPMENT GROUNDING CONDUCTOR WITH EVERY CIRCUIT.

COORDINATE SIZE AND LOCATION OF ANY REQUIRED ACCESS PANELS IN WALLS OR FINISHED CEILINGS WITH ARCHITECT PRIOR TO INSTALLATION.

WARNINGS:  
UNLESS A LONGER PERIOD IS SPECIFIED IN INDIVIDUAL PARAGRAPHS, PROVIDE A MINIMUM OF ONE YEAR WARRANTY ON ALL ELECTRICAL WORK BEGINNING THE DATE OF FINAL ACCEPTANCE OF THE PROJECT BY THE OWNER.

SUBMITTALS:  
SUBMIT SHOP DRAWINGS FOR ALL MAJOR COMPONENTS OR SYSTEMS OF THE PROJECT. SUBMIT ADDITIONAL SHOP DRAWINGS IF REQUESTED BY ENGINEER.

NO APPARATUS OR EQUIPMENT SHALL BE SHIPPED FROM STOCK OR FABRICATED UNTIL ITS SHOP DRAWINGS HAVE BEEN STAMPED "REVIEWED" OR "APPROVED AS NOTED". SUBMIT DATA REQUIRED FOR TRANSFORMERS SUCH AS EFFICIENCY, REGULATION, CORE LOSS AND SOUND LEVELS. (SEE APPLICABLE SECTIONS).

SUBMIT SYSTEM COMPONENTS, PRODUCT DATA AND SHOP DRAWINGS COMPLETE FOR EACH SYSTEM UNDER ONE SUBMITTAL. DO NOT BREAK OUT EQUIPMENT FOR ONE SYSTEM BETWEEN MULTIPLE SUBMITTALS.

ALL SHOP DRAWINGS MUST BE CLEARLY MARKED TO SHOW EQUIPMENT SUBMITTED AND ANY DEVIATIONS FROM SPECIFICATIONS SHALL BE NOTED THEREON. DO NOT INCLUDE ONLY MODEL NUMBERS TO INDICATE SUBMITTED EQUIPMENT. STRIKE OUT ANY INFORMATION ON PRODUCT DATA THAT IS NOT PROJECT SPECIFIC, AND EDIT RELEVANT INFORMATION TO SHOW ACTUAL EQUIPMENT SUBMITTED. ELECTRICAL CONTRACTOR MUST SIGN AND APPROVE ALL SHOP DRAWINGS PRIOR TO SUBMITTAL. UNIQUELY NUMBER EACH PAGE IN SUBMITTAL.

IF DIFFERENT SYSTEMS ARE INCLUDED IN ONE SUBMITTAL, CLEARLY SEPARATE INFORMATION AND PROVIDE DIFFERENT SUB-NUMBERING OF SYSTEMS. SHOP DRAWINGS THAT ARE INCOMPLETE, UNSIGNED AND NOT PLAINLY MARKED WILL NOT BE REVIEWED.

MICHIGAN UNIFORM ENERGY CODE:  
THIS IS A PERFORMANCE BASED DESIGN-BUILD SPECIFICATION AND APPLIES ONLY TO ROOMS WITH NEW LIGHTING FIXTURES.

THE INTENT OF THIS SPECIFICATION ITEM IS FOR FULL COMPLIANCE WITH THE REQUIREMENTS OF THE 2015 MICHIGAN UNIFORM ENERGY CODE AND RELATED AMENDMENTS AS THEY APPLY TO THE ASHRAE 90.1-2013 STANDARDS. AUTOMATIC CONTROL APPLIES TO NEW AND TO EXISTING TO REMAIN FIXTURES.

DESIGN AND PROVIDE A COMPLETE LIGHTING CONTROL SYSTEM PER MANUFACTURER'S RECOMMENDATION AND TO COMPLY TO ENERGY CODE AS INDICATED ABOVE, INDICATE ALL COMPONENTS AND EQUIPMENT LAYOUT ON FLOOR PLANS AND SUBMIT FOR REVIEW AND APPROVAL. COORDINATE WITH ARCHITECTURAL TRADES TO PROVIDE CEILING ACCESS PANELS WHERE REQUIRED.

PROVIDE OCCUPANCY SENSOR(S) IN EVERY ROOM OR SPACE (EXCEPT WHERE TIMER CONTROL IS INDICATED) TO AUTOMATICALLY SHUTOFF ALL NON-EMERGENCY LIGHTING WITHIN ITS SPACE WITH ADJUSTABLE TIME DELAY UP TO 20 MINUTES.

OCCUPANCY SENSORS SHALL BE OF ULTRASONIC, INFRARED OR MULTI-TECHNOLOGY TYPE AS RECOMMENDED BY MANUFACTURER FOR EACH SPACE/APPLICATION CEILING MOUNTED.

INCLUDE CONTROL PANEL STARTUP/COMMISSIONING AND TRAINING BY MANUFACTURER'S FACTORY-TRAINED PERSONNEL. IN ADDITION TO OTHER STARTUP REQUIREMENTS, MANUFACTURER'S FACTORY REPRESENTATIVE IS TO OBTAIN OWNER'S DESIRED OPERATIONAL SCHEDULE FOR EACH CIRCUIT, PROGRAM PANEL WITH SITE-SPECIFIC INFORMATION, AND CONTROL LIGHTING FIXTURES PER OWNER'S SCHEDULE IN COMPLIANCE WITH MICHIGAN UNIFORM ENERGY CODE.

PROVIDE OWNER WITH A MINIMUM OF 2 HOURS OF TRAINING AT JOBSITE BY MANUFACTURER'S FACTORY REPRESENTATIVE.

DEMOLITION AND RENOVATION WORK:  
DISCONNECT, REMOVE, RELOCATE, REWIRE OR DISPOSE OF ANY EQUIPMENT INTERFERING WITH NEW CONSTRUCTION OR AFFECTED BY RENOVATION WORK.

ANY ELECTRICAL EQUIPMENT OR SYSTEMS WHICH ARE TO REMAIN, AND ARE AFFECTED BY THIS WORK, SHALL BE IMMEDIATELY RESTORED TO FULL OPERATING CONDITION AND AT NO ADDITIONAL COST TO THE CONTRACT. EQUIPMENT REMOVED SHALL BE DISPOSED OF AS DIRECTED, EITHER TO STORAGE OR OFF THE PREMISES.

WHERE SERVICES OR CIRCUITS ARE DISCONNECTED OR DISCONTINUED, IT IS MANDATORY THAT ANY EXISTING UNUSED WIRING BE REMOVED TO THE SOURCE UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. IT IS THE INTENT OF THIS ARTICLE TO PERMANENTLY DISCONNECT ALL UNUSED CIRCUITS AT THE MAIN SOURCE WHENEVER POSSIBLE. NO ENERGIZED CIRCUIT SHALL BE TAPED AND ABANDONED IN OUTLET BOXES UNLESS SO SPECIFIED ON DRAWINGS.

CIRCUIT TRACE EXISTING TO REMAIN CIRCUITS AS NECESSARY FOR PROPER IDENTIFICATION, AND AS REQUIRED TO PERFORM AND DOCUMENT WORK.

REMODELING WORK INVOLVING EXISTING BRANCH CIRCUIT PANELBOARD SHALL BE SUCH THAT, WHEN ALL WORK IS COMPLETED EXISTING PANELS ARE PROVIDED WITH NEW AND UPDATED ACCURATE DIRECTORIES. ALL VACATED CIRCUITS SHALL BE MARKED SPARE. WHEN NEW BREAKERS ARE REQUIRED, THEY SHALL BE INSTALLED IN EXISTING SPACES AND SHALL MATCH THOSE THAT ARE EXISTING. PROVIDE NEW PANELS IF REQUIRED AND WHERE INDICATED.

CONTRACTOR MAY USE EXISTING CONDUITS AND OUTLET BOXES, PROVIDED THEY ARE IN GOOD ELECTRICAL CONDITION AND THE INSTALLATION IS APPROVED BY THE AHJ. RE-SUPPORT EXISTING TO REMAIN CONDUIT AND BOXES IN RENOVATION AREA IF INADEQUATELY SUPPORTED. PROVIDE SUPPORT AS REQUIRED TO COMPLY WITH NEC AND AHJ REQUIREMENTS.

IT IS THE INTENT OF THE OVERALL DESIGN TO CONCEAL ALL WORK EXCEPT IN UNFINISHED AREAS. CUT AND PATCH EXISTING SURFACES AS REQUIRED FOR A CONCEALED INSTALLATION.

ALL ELECTRICAL OPENINGS THAT ARE ABANDONED IN WALLS, CEILINGS OR FLOOR SHALL BE PROVIDED WITH SUITABLE BLANK COVER PLATES. ABANDONED FLOOR OUTLETS AND PENETRATIONS SHALL BE FILLED TO MATCH EXISTING SURROUNDING CONDITIONS.

CONDUITS AND OTHER PARTS OF ELECTRICAL SYSTEMS THAT BECOME EXPOSED AS A PART OF NEW WORK SHALL BE REMOVED AS REQUIRED TO A POINT WHERE THE ABANDONED PORTION IS TOTALLY CONCEALED.

ALL SURFACES DAMAGED BY THIS CONTRACTOR IN THE COURSE OF PERFORMING WORK SHALL BE RESTORED TO SATISFACTORY CONDITION, AS DIRECTED BY THE ARCHITECT AND ALL COSTS OF REPAIRS SHALL BE PAID FOR BY THE CONTRACTOR

REMOVE SERVICE TO MECHANICAL, ELECTRICAL AND BUILDING EQUIPMENT SPECIFIED AND/OR INDICATED AS REMOVED OR DISCONNECTED. MAINTAIN CIRCUITS TO EXISTING-TO-REMAIN EQUIPMENT. IDENTIFY UNUSED, REMOVED CIRCUITS ON PANEL SCHEDULE AS SPARE. COORDINATE WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR EXISTING TO REMAIN EQUIPMENT AND FOR DEMOLITION WORK.

SERVICE SHUTDOWN AND POWER OUTAGES SHALL BE SCHEDULED WITH THE OWNER PRIOR TO PERFORMING ANY WORK ON EXISTING SERVICE. SCHEDULE SHALL BE PROVIDED IN WRITING 72 HOURS IN ADVANCE AND SHALL SHOW A DETAILED DESCRIPTION OF THE PROPOSED WORK AND THE DURATION OF OUTAGE.

PROVIDE LUMINAIRE DISCONNECTING MEANS PER LIGHTING SPECIFICATIONS.

UTILITY SERVICES (EXISTING BUILDING):  
ELECTRIC SERVICE TO THE SITE IS EXISTING AND SHALL BE UTILIZED AS INDICATED ON THE DRAWINGS.

TELEPHONE SERVICE TO THE SITE IS EXISTING AND SHALL BE UTILIZED AS INDICATED ON THE DRAWINGS.

ELECTRICAL EQUIPMENT AND DEVICES:  
RECEPTACLES SHALL BE SPECIFICATION GRADE, GROUNDING TYPE, 2-POLE, 3-WIRE, AND POLARIZED. RECEPTACLES IN GENERAL SHALL BE 20A, 125 V., HUBBELL #HBL5362 OR EQUAL MOUNTED 16" AFF IN OFFICES AREAS.CLES DESIGNATED "GFR" SHALL BE GROUND FAULT RECEPTACLES, SIMILAR TO HUBBELL #6F-5362.

SWITCHES SHALL BE SINGLE POLE, TWO POLE, OR THREE-WAY, AS INDICATED, TOGGLE TYPE, 20A, 120/277V., QUIET TYPE, HUBBELL #1221/1222/1223 OR APPROVED EQUAL. PILOT TYPE SWITCHES HUBBELL #1251.

PROVIDE DIMMERS RATED FOR LOAD WATTAGE AND VOLTAGE CONTROLLED. CONTRACTOR TO COORDINATE RATING BASED ON APPROVED FIXTURE SUBMITTALS AND ACTUAL FIXTURE QUANTITIES. PROVIDE DIMMERS DESIGNED FOR CONTROLLED LOAD CONSULT LIGHT FIXTURE MANUFACTURER FOR COMPATIBLE DIMMER SWITCHES.

WIRING DEVICE COLORS SHALL BE WHITE OR AS SELECTED BY OWNER/ARCHITECT.

EDGE COVER PLATES SHALL BE OF TYPE AND NUMBER OF GANGS FOR DEVICES INSTALLED. SMOOTH EDGED 302/304 GRADE BRUSHED STAINLESS STEEL. PROVIDE BRANCH CIRCUIT IDENTIFICATION ON ALL COVERPLATES AS SPECIFIED UNDER "GENERAL REQUIREMENTS". COVERPLATES FOR DEVICES CONNECTED TO THE EMERGENCY SYSTEM SHALL ALSO BE FACTORY LABELED WITH BLACK LETTERING TO READ "EMERGENCY".

PROVIDE TELEPHONE/DATA OUTLETS AND STUBS AS INDICATED. TELEPHONE/DATA OUTLETS SHALL CONSIST OF TWO GANG OUTLET BOX WITH PLASTER RING AND NO COVER PLATE. JACK AND COVER PLATE ARE SUPPLIED BY OTHERS. HEIGHT OF OUTLET FOR DESK PHONE IS 16" AFF AND FOR WALL PHONE 48" AFF. TELEPHONE/DATA OUTLETS SHALL CONTAIN OF 3/4" CONDUIT FROM OUTLET TO AN ACCESSIBLE PORTION OF CEILING SPACE. TERMINATE WITH INSULATING BUSHING.

CONDUCTORS:  
ALL CONDUCTORS SHALL BE SOFT-DRAWN COPPER OF SIZES INDICATED ON THE DRAWINGS. ALL CONDUCTORS SHALL BE INSULATED FOR 600 VOLTS AND WITH 75 DEGREES (CENTIGRADE) CODE GRADE INSULATION.

CONDUCTORS SIZED #10 AND SMALLER SHALL BE SOLID. ALL CONDUCTORS LARGER THAN #10 SHALL BE MADE UP OF STRANDED SINGLE CONDUCTOR CABLE. CONDUCTORS SHALL HAVE THIN OR THIN INSULATION AS APPLICABLE. CONDUCTORS IN UNDERGROUND CONDUIT AND FOR SERVICE ENTRANCE CONDUCTOR SHALL HAVE XHHW OR THWN INSULATION.

#12 AWG SHALL BE THE MINIMUM WIRE SIZE ALLOWED EXCEPT #14 AWG MAY BE USED FOR CONTROL WIRING.

TYPICAL BRANCH CIRCUITS FROM 20A, 1-POLE BRANCH OVER CURRENT DEVICES ARE 1/2", #212 AND #1210.

STARTERS, SAFETY SWITCHES, FUSES AND HEATERS:  
MANUAL MOTOR STARTERS SHALL BE 600V TOGGLE TYPE WITH THERMAL OVERLOAD ELEMENT FOR MOTOR PROTECTION. STAINLESS STEEL COVER PLATE AND PILOT LIGHT. FLUSH IN ALL AREAS EXCEPT IN UNFINISHED SPACES. CONTRACTOR TO COORDINATE AND PROVIDE QUANTITY OF POLES AS REQUIRED FOR BRANCH CIRCUIT AND LOAD SERVED. MANUAL MOTOR SWITCHES SHALL BE THE SAME AS MANUAL STARTERS EXCEPT WITHOUT OVERLOADS AND USED AS DISCONNECTING MEANS.

MAGNETIC MOTOR STARTERS SHALL BE 600 VOLT 3-PHASE WITH 3 THERMAL OVERLOAD ELEMENTS, HOA SWITCH AND RESET BUTTON IN COVER AND GREEN RUNNING PILOT LIGHT, NEMA ENCLOSURE AND SIZE AS INDICATED. COMBINATION STARTERS SHALL HAVE BUILT-IN FUSED DISCONNECT. PROVIDE START-STOP PUSH BUTTONS FOR USE IN HAND (MANUAL) MODE.

PROVIDE THERMAL ALLOY MELTING TYPE HEATER ELEMENTS FOR ALL MOTORS BASED ON MOTOR NAMEPLATE DATA.

SAFETY AND DISCONNECT SWITCHES SHALL BE 250 OR 600 VOLTS AS REQUIRED, HEAVY DUTY, TWO OR THREE POLE, "QUICK-MAKE", "QUICK-BREAK" SWITCH MECHANISM AND COVER INTERLOCK. SWITCHES SHALL BE FUSED OR UNFUSED AS INDICATED AND SHALL HAVE PAD LOCK PROVISIONS, WITH NEMA TYPE ENCLOSURE FOR LOCATION USED. SWITCHES SHALL BE SQUARE "D"CLASS 3110 OR APPROVED EQUAL.

PROVIDE ALL NECESSARY FUSES AND REPLACE ALL THOSE BLOWN DURING CONSTRUCTION. ALL FUSES SHALL BE TIME LAG, DUAL ELEMENT, BUSSMAN "LOW PEAK YELLOW" OR EQUAL.

INSTALLATION AND METHODS OF EXECUTION:  
ALL WIRING SHALL BE IN CONDUIT, MINIMUM 1/2". FLEXIBLE METAL CONDUIT SHALL BE USED FOR SHORT CONNECTION TO MOTORS, FINAL CONNECTION TO RECESSED LIGHTING FIXTURES FROM RIGIDLY MOUNTED OUTLET BOX (NOT BETWEEN FIXTURES), VIBRATING EQUIPMENT, ETC., BUT NEVER LONGER THAN 6 FEET. PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT FOR ALL APPLICATIONS EXPOSED TO WATER OR WEATHER. PROVIDE ANTI-SHORT BUSHINGS FOR ALL FLEXIBLE CONDUIT ARMOR TERMINATIONS. PROVIDE SEPARATE EQUIPMENT GROUND WIRE IN ALL CONDUIT RUNS.

CONDUIT CONCEALED IN CEILING, WALLS OR FURRED SPACES OR EXPOSED IN DRY LOCATIONS SHALL BE EMT, THIN WALL ELECTRIC METALLIC TUBING; CONDUIT EXPOSED TO WEATHER, IN CONTACT WITH CONCRETE, BURIED IN SLAB, OR IN HAZARDOUS AREAS, SHALL BE HEAVY WALL, RIGID. ALL CONDUITS SHALL BE HOT DIPPED GALVANIZED STEEL.

CONDUIT RUNS SHOWN ON DRAWINGS ARE DIAGRAMMATIC. EXACT ROUTING OF CONDUIT RUNS SHALL SUIT JOB CONDITIONS. EXPOSED CONDUIT SHALL BE RUN ONLY IN UNFINISHED AREAS SUBJECT TO FINAL APPROVAL OF ENGINEER AND SHALL RUN PARALLEL TO BUILDING LINES, NEVER DIAGONALLY.

CONNECTION TO EQUIPMENT SHALL BE DONE IN ACCORDANCE WITH MANUFACTURER'S SHOP AND INSTALLATION DRAWINGS. REQUIREMENTS GENERALLY VARY FROM ONE MANUFACTURER TO ANOTHER AND CONTRACTOR IS BOUND TO COMPLY AND PROVIDE ALL WORK AS REQUIRED ALTHOUGH CERTAIN DISCREPANCIES MAY EXIST REGARDING THE REQUIREMENT FROM ONE MANUFACTURER TO ANOTHER.

PROVIDE POWER WIRING, DISCONNECTS, AND PROTECTION DEVICES TO ALL MECHANICAL EQUIPMENT AND MAKE FINAL CONNECTIONS, INCLUDING TESTING OF MOTORS FOR PROPER ROTATION.

OUTLET BOXES MAY-BE SURFACE MOUNTED ON EXISTING WALLS (CMU, BRICK OR CONCRETE) WITH SMALLEST SURFACE RACEWAY AS REQUIRED FOR WIRING INSTALLED. PROVIDE FLUSH OUTLET BOXES AND CONDUIT AT NEW CONSTRUCTION WALL AND AT EXISTING WALLS WHICH ARE NOT CMU BRICK OR CONCRETE CONSTRUCTION. CUT AND PATCH EXISTING WALLS AS REQUIRED FOR FLUSH INSTALLATION.

PROVIDE 4" TALL CONCRETE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.

ALL WIRING LOCATED ABOVE THE SUSPENDED CEILING MUST BE SUPPORTED INDEPENDENTLY OF THE SUPPORT WIRES FOR THE SUSPENDED CEILING.

OUTLET BOXES ON OPPOSITE SIDES OF FIRE RESISTANT WALLS OR PARTITIONS SHALL BE SEPARATED BY A HORIZONTAL DISTANCE OF TWENTY FOUR (24) INCHES.

ELECTRICAL OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANT RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING PER ARTICLE 300.21 2017 NEC.

PROVIDE PROPER WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT AS REQUIRED PER NEC.

LIGHTING SPECIFICATIONS:  
LED LIGHTING FIXTURES SHALL HAVE 5 YEAR WARRANTY, A COLOR RENDERING INDEX OF 90 OR HIGHER, 3500K COLOR TEMPERATURE UNLESS OTHERWISE INDICATED ON DRAWINGS. LIFETIME: 50,000 HOURS OR GREATER AND MAINTAIN AT LEAST 70% OF INITIAL LUMEN OUTPUT. RATED FOR OUTDOOR USE AND WET LOCATION, IF IN OPEN FIXTURE.

SHALL POSSESS COLOR MANAGEMENT SYSTEM TO MAINTAIN COLOR CONSISTENCY OVER TIME AND TEMPERATURE OF NO GREATER THAN ±100K OVER LIFE.

REFER TO LIGHTING FIXTURE SCHEDULE ON ARCHITECTURAL REFLECTED CEILING PLANS FOR LED FIXTURES WITH DIMMING CONTROLS.

LED DRIVERS TO BE ELECTRONIC, HIGH POWER FACTOR, MIN. 0.9; UNIVERSAL VOLTAGE 120-277V; 5 YEAR WARRANTY, COMPATIBLE WITH THE LED LAMP OR MODULE USED.

FIRE ALARM SYSTEM - PERFORMANCE SPECIFICATION:  
A/E WILL ONLY SHOW EXISTING DEVICES ON PLANS FOR REFERENCE ONLY. SYSTEM'S QUALITY AND PERFORMANCE SHALL BE AS COVERED IN THESE SPECIFICATIONS.

SCOPE OF WORK:  
MODIFY EXISTING FIRE ALARM SYSTEM COVERAGE INCLUDING RELOCATING AND/OR ADDING DEVICES IN AREA OF RENOVATION FOR A COMPLETE, FUNCTIONING AND APPROVED INSTALLATION INCLUDING BUT NOT LIMITED TO THE FOLLOWING MAJOR ITEMS:

SYSTEM DESIGN.  
DEVICE LOCATION.  
BATTERY CALCULATIONS.  
CIRCUIT VOLTAGE DROP CALCULATIONS.  
BUILDING PLANS WITH LOCATION OF ALL DEVICES AND EQUIPMENT.  
INTERFACE WITH OTHER SYSTEMS OR EQUIPMENT.  
FIRE CURTAINS AND SMOKE BARRIERS, FIRE AND SMOKE DAMPERS.  
FIRE SUPPRESSION SYSTEM.  
ANY OTHER FIRE RELATED DEVICES OR EQUIPMENT.  
SYSTEM RISER.  
LEGEND FOR ALL DEVICES AND EQUIPMENT SHOWN ON PLANS AND RISER.  
SYSTEM OPERATION MATRIX AND AS REQUIRED FOR FULL COMPLIANCE WITH REQUIREMENTS OF NFPA 72 AND APPLICABLE LOCAL, STATE AND NATIONAL RULES AND REGULATIONS.

EMPLOY THE SERVICES OF A QUALIFIED CERTIFIED FIRE ALARM CONTRACTOR/CONSULTANT TO PREPARE THE SYSTEM DESIGN AND RELATED CONSTRUCTION DOCUMENTS INCLUDING ALL RELATED CALCULATIONS, DEVICE PLACEMENT; AND INCLUDE COORDINATION WITH OTHER SUPPLIERS/CONTRACTORS SUCH AS DESIGN-BUILD FIRE PROTECTION INSTALLER FULLY COMPLETE WITH ALL INFORMATION AND RELATED DATA, AS REQUIRED, TO OBTAIN SYSTEM APPROVAL BY THE AUTHORITIES HAVING JURISDICTION. DETERMINE THE APPLICABLE AUTHORITIES HAVING JURISDICTION FOR PROJECT AND INCLUDE ALL IN PLAN REVIEW, PERMITTING, AND INSPECTION.

SURVEY EXISTING CONDITIONS PRIOR TO BID. COORDINATE WORK WITH BUILDING FINISHES AND WITH OTHER WORK BEING PERFORMED.

PROVIDE SYSTEM TESTING AND CORRECT ALL DEFECTS PRIOR TO FINAL DEMONSTRATION AND OWNER ACCEPTANCE.

PROVIDE FOUR (4) HOURS OF TRAINING IN OPERATION AND MAINTENANCE FOR TWO PERSONS AS SELECTED BY THE OWNER/USER.

SUBMITTALS TO THE AUTHORITIES HAVING JURISDICTION (AHJ):  
THE FOLLOWING DOCUMENTS SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION:  
FLOOR PLANS.  
LOCATION OF CONDUIT AND ANNUNCIATION EQUIPMENT.  
LOCATION OF INITIATING DEVICES AND ALARM INDICATING APPLIANCES ON PLANS.  
POWER CONNECTION.  
SYSTEM RISER DIAGRAM.  
DEVICE CIRCUITING ON PLANS AND OR RISER.  
BATTERY CALCULATIONS.  
CIRCUIT CONDUCTORS, TYPE AND SIZE.  
VOLTAGE DROP CALCULATION FOR EVERY CIRCUIT WITH THE 25% SPARE CAPACITY INCLUDED.  
INTERFACE WITH OTHER SYSTEMS OR EQUIPMENT (CONTROL FUNCTIONS) AS REQUIRED, SPECIFIED OR NOTED.  
SYSTEM MATRIX FOR EVENTS (FUNCTIONAL MATRIX).  
MANUFACTURER DATA, CUTS, SHEETS, LISTING AND ALL RELATED INFORMATION FOR THE EQUIPMENT AND DEVICES PROVIDED FOR THE SYSTEM.

ARCHITECTS/ENGINEERS REVIEW:  
ARCHITECT/ENGINEER WILL REVIEW SYSTEM DOCUMENTS AFTER THEY HAVE BEEN APPROVED BY LOCAL AUTHORITY. INCLUDE PROOF OF LOCAL AUTHORITY APPROVAL WITH A/E SUBMITTAL.  
REVIEW WILL COVER GENERAL COMPLIANCE WITH PROJECT REQUIREMENTS AND THE INTENT OF THESE SPECIFICATIONS.

SUGGESTED CONSULTANTS/CONTRACTORS:  
SIEMENS FIRE SAFETY  
JOHNSON CONTROLS  
GAMEWELL  
NATIONAL TIME AND SIGNAL  
SIMPLEX/GRINNELL

CODES AND STANDARD:  
NFPA 72 - NATIONAL FIRE ALARM CODE  
NFPA 101 - LIFE SAFETY CODE  
NEC 760 - FIRE PROTECTIVE SIGNALING SYSTEMS  
NEC 725 - SIGNALING AND POWER LIMITED CIRCUITS  
LOCAL ORDINANCES AS APPLICABLE

REGULATORY REQUIREMENTS:  
CONFORM TO REQUIREMENTS OF NATIONAL FIRE CODE (NFC).  
A.D.A. FEDERAL GUIDELINES  
CONFORM TO STATE AND LOCAL FIRE CODES  
CONFORM TO RULES AND REQUIREMENTS OF LOCAL GOVERNING BODY.

SYSTEMS SUPERVISION:  
PROVIDE ELECTRONICALLY SUPERVISED SYSTEM, WITH SUPERVISED ALARM INITIATING AND ALARM SIGNALING CIRCUITS. OCCURRENCE OF SINGLE GROUND OR OPEN CONDITION IN INITIATING OR SIGNALING CIRCUIT PLACES CIRCUIT IN TROUBLE MODE. OCCURRENCE OF SINGLE GROUND CONDITION ON ALARM INITIATING OR SIGNALING CIRCUIT DOES NOT DISABLE THAT CIRCUIT FROM TRANSMITTING AN ALARM.

PRODUCTS:  
THE FOLLOWING IS INTENDED TO ESTABLISH GENERAL QUALITY OF SYSTEM BUT NOT INTENDED TO LIMIT SYSTEM DESIGN OR EXCLUDE ANY REQUIRED DEVICES.

FIRE ALARM CONTROL PANELS:  
PROVIDE FLUSH MOUNTED MAIN FIRE ALARM CONTROL PANEL AND REMOTE FIRE ALARM CONTROL PANEL. COORDINATE PANEL FINISH WITH ARCHITECT. COORDINATE MOUNTING LOCATIONS WITH ARCHITECT AND WITH LOCAL AUTHORITY.

MANUAL STATIONS:  
SEMI FLUSH, ADDRESSABLE AND WITH PRIORITY ALARM MODULES. MANUAL STATIONS SHALL BE INDIVIDUALLY IDENTIFIABLE BY THE FIRE ALARM CONTROL PANEL.

REMOTE INTERFACE MODULES:  
ADDRESSABLE, PROGRAMMABLE INTERFACE MODULES AS REQUIRED TO MONITOR, CONTROL AND INITIATE REQUIRED FIRE ALARM FUNCTIONS.

SMOKE DETECTORS: (INTELLIGENT ANALOG ADDRESSABLE)  
PHOTOELECTRIC, LISTED FOR USE AS OPEN AREA PROTECTIVE COVERAGE AND SHALL BE INSENSITIVE TO AIR VELOCITY CHANGES. DETECTORS SHALL BE OPERATIONAL WITH RELAY BASES, AUDIBLE BASES, AND REMOTE INDICATING LED'S PROGRAMMABLE BY THE CONTROL PANEL.

ALARM HORNS/SPEAKERS:  
ALARM HORNS/SPEAKERS FULLY ENCLOSED AND DUSTPROOF. DESIGNED TO BE MOUNTED ON A WALL WITH ENTIRE LENS NOT LESS THAN 80" AFF AND NOT GREATER THAN 96" AFF. MOUNT ALL DEVICES AT THE SAME HEIGHT.  
MINI HORNS WHEN USED FOR LIVING UNITS SHALL BE RATED 90DB AT 10' AND SHALL MOUNT TO A SINGLE GANG BOX.

ALARM STROBES:  
FLUSH BACK BOXES, COMPLYING WITH A.D.A. GUIDELINES FOR LIGHT INTENSITY AND THE FOLLOWING:  
XENON STROBE WITH MINIMUM REPETITION RATE OF 1 HZ, NOT EXCEEDING 3 HZ AND A MAXIMUM DUTY CYCLE OF 40% WITH A PULSE DURATION OF .2 SECONDS.  
UNFILTERED OR CLEAR WHITE LIGHT.

VISUAL SIGNALS SHALL BE MOUNTED AT A HEIGHT OF MAXIMUM 80 INCHES ABOVE FINISH FLOOR LEVEL, OR SIX INCHES BELOW CEILING LEVEL WHICHEVER IS LOWER.  
SYNCHRONIZE DEVICES WHEN MULTIPLE DEVICES ARE WITHIN THE SAME LINE OF SIGHT.

AUXILIARY DEVICES:  
DEVICES SUCH AS MAGNETIC DOOR HOLDERS, WATER FLOW SWITCHES, TAMPER SWITCHES AND THE LIKE SHALL BE PROVIDED AS REQUIRED.

DUCT SMOKE DETECTORS:  
PROVIDE DETECTORS FOR ALL AIR HANDLING UNITS AS REQUIRED.  
PHOTOELECTRIC LISTED FOR USE IN DUCT DETECTION.  
INSENSITIVE TO AIR VELOCITY CHANGES.  
CAPABLE OF SENSITIVITY TESTED AFTER REMOVAL FROM BASES.  
REMOTE INDICATING LED PROGRAMMABLE (RESETTABLE) FROM CENTRAL PANEL. (WALL OR CEILING MOUNTED - COORDINATE WITH ARCHITECT).

INSTALLATION:  
THE SYSTEM AS DESCRIBED SHALL BE INSTALLED, TESTED, AND APPROVED BY THE AHJ. THE SYSTEM SHALL INCLUDE ALL THE REQUIRED HARDWARE, RACEWAYS, INTERCONNECTING WIRING AND SOFTWARE TO ACCOMPLISH THE INTENT OF THESE SPECIFICATIONS AND THE CONTRACT DOCUMENTS, WHETHER OR NOT SPECIFICALLY ITEMIZED HEREIN.

ALL EQUIPMENT FURNISHED SHALL BE NEW AND INCLUDE THE LATEST STATE OF THE ART PRODUCTS FROM A SINGLE MANUFACTURER, ENGAGED IN THE MANUFACTURING AND SALE OF FIRE DETECTION SYSTEMS FOR OVER FIVE YEARS. THE INSTALLING CONTRACTOR SHALL CONTRACT WITH A SINGLE SOURCE FOR SUPPLYING DEVICES/MATERIALS, SERVICES, AND PROGRAMMING, INCLUDING FINAL INSPECTION/TEST SERVICES FOR THE FIRE ALARM SYSTEM.

CONTROL AND OTHER PANELS SHALL BE MOUNTED WITH SUFFICIENT CLEARANCE FOR OBSERVATION AND TESTING. ALL FIRE ALARM JUNCTION BOXES MUST BE CLEARLY MARKED FOR EASY IDENTIFICATION.

FIRE ALARM PULL STATIONS AND HORNS INSTALLED IN FINISHED AREAS SHALL BE MOUNTED SEMI-FLUSH AND MAY BE SURFACE MOUNTED IN EXISTING AND NON-FINISHED AREAS. SMOKE DETECTORS AND THERMAL DETECTORS SHALL BE MOUNTED ON A RECESS MOUNTED JUNCTION BOX IN FINISHED AREAS AND TO SURFACE MOUNTED JUNCTION BOXES IN NON-FINISHED AREAS.

INSTALL MANUAL STATION FLUSH MOUNTED WITH OPERATING HANDLE 48 INCHES ABOVE FLOOR. INSTALL AUDIBLE AND VISUAL SIGNAL DEVICES NO MORE THAN 80 INCHES ABOVE HIGHEST FLOOR LEVEL OR 6 INCHES BELOW THE CEILING, WHICHEVER IS LOWER.

MOUNT OUTLET BOX FOR ELECTRIC DOOR HOLDER TO WITHSTAND 80 POUNDS PULLING FORCE.

WIRING:  
ALL FIRE ALARM WIRING SHALL BE RUN IN A DEDICATED RACEWAY SYSTEM APPROVED BY THE AHJ. WITH APPROVAL OF LANDLORD AND THE AHJ, PLENUM RATED WIRING MAY BE RUN WITHOUT RACEWAYS ABOVE ACCESSIBLE FINISHED CEILINGS.  
WHERE EXPOSED RACEWAY IS PERMITTED BY ARCHITECT IN FINISHED SPACES, SUCH AS IN EXISTING CONSTRUCTION, COORDINATE APPROVAL OF RACEWAY TYPE, ROUTING AND FINISH WITH THE AHJ AND WITH THE ARCHITECT.

NO WIRING OTHER THAN THAT DIRECTLY ASSOCIATED WITH FIRE ALARM DETECTION, ALARM OR AUXILIARY FIRE PROTECTION FUNCTIONS SHALL BE PERMITTED IN FIRE ALARM CONDUITS. WIRING SPICES ARE TO BE AVOIDED TO THE EXTENT POSSIBLE, AND IF NEEDED THEY MUST BE MADE ONLY IN JUNCTION BOXES AND SHALL BE CRIMP CONNECTED. TRANSPOSING OR CHANGING COLOR CODING OF WIRE SHALL NOT BE PERMITTED. ALL CONDUCTORS IN CONDUIT CONTAINING MORE THAN ONE WIRE SHALL BE LABELED AND HARNESSSED SO THAT EACH DROPS OFF DIRECTLY OPPOSITE TO ITS TERMINAL.  
ALL WIRING SHALL BE CHECKED AND TESTED TO INSURE THAT THERE ARE NO GROUNDS, OPENS, OR SHORTS.

TESTING, APPROVAL AND CERTIFICATION:  
FIRE ALARM SYSTEM SHALL BE TESTED IN PRESENCE OF LOCAL INSPECTING AUTHORITY AND TEST REPORT OF RESULTS SHALL BE FILED WITH OWNER/ARCHITECT/ENGINEER AS PART OF SYSTEMS DOCUMENTATION.

MAKE ALL REVISIONS OR CHANGES NECESSARY TO MAINTAIN FINAL APPROVAL AT NO EXTRA COST TO OWNER. PROVIDE ALL PERSONNEL AND MATERIALS REQUIRED FOR SYSTEM TESTING.



STUCKY VITALE ARCHITECTS  
27172 WOODWARD AVENUE  
ROYAL OAK, MI 48067-0925  
P. 248.546.6700  
F. 248.546.8454  
WWW.STUCKYVITALE.COM

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Consultants



180 HIGH OAK ROAD 11248125811610  
DETROIT HILLS, MI 48034 11248125819638

Seal:



Project :

WSU- DETROIT- UGL  
1ST FLOOR STUDENT  
REFRESH

5155 GULLEN MALL,  
DETROIT, MI 48202

Key Plan:

5155 GULLEN MALL,  
DETROIT MI 48202

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Drawn by :

LZ

Checked by :

WZ

Sheet Title :

ELECTRICAL SPECIFICATION

Project No. :

2023.111

Sheet No. :

E002



PANELBOARD: RP-12 (EXISTING BEFORE DEMO) MOUNTING: SURFACE									
VOLTAGE: 208Y/120V, 3 PHASE, 4 WIRE + G AIC: EXISTING									
MAIN: 400 A MCB FEEDER: EXISTING									
LOCATION: ELECTRICAL ROOM SPD EQUIPPED: YES									
Isolated Ground Bus									
Circ		Breaker		Load Information		Connected Watts			
No	Pole	Tripp	Location	Description	Code	Phase A	Phase B	Phase C	
1	1	20	FL PLUG 24HR ST.(1300)COL.U14						
3	1	20	FL PLUG 24HR ST.(1300)COL.U14						
5	1	20	FL PLUG 24HR ST.(1300)COL.T15						
7	1	20	FL PLUG 24HR ST.(1300)COL.T15						
5	1	20	FL PLUG 24HR ST.(1300)COL.T16						
11	1	20	FL PLUG 24HR ST.(1300)COL.T16						
13	1	20	FL PLUG 24HR ST.(1300)COL.T17						
15	1	20	FL PLUG 24HR ST.(1300)COL.T17						
17	1	20	SPARE						
19	1	20	SPARE						
21	1	20	SPARE						
23	1	20	FL PLUG 24HR ST.(1300)COL.R15						
25	1	20	FL PLUG 24HR ST.(1300)COL.R16						
27	1	20	FL PLUG 24HR ST.(1300)COL.R17						
29	1	20	FL PLUG 24HR ST.(1300)COL.Q15						
31	1	20	FL PLUG 24HR ST.(1300)COL.Q16						
33	1	20	FL PLUG 24HR ST.(1300)COL.Q17						
35	1	20	FL PLUG 24HR ST.(1300)COL.P15						
37	1	20	FL PLUG 24HR ST.(1300)COL.P15						
39	1	20	FL PLUG 24HR ST.(1300)COL.P15						
41	1	20	FL PLUG 24HR ST.(1300)COL.P16						
43	1	20	FL PLUG 24HR ST.(1300)COL.P16						
45	1	20	FL PLUG 24HR ST.(1300)COL.P16						
47	1	20	FL PLUG 24HR ST.(1300)COL.P17						
49	1	20	FL PLUG 24HR ST.(1300)COL.P17						
51	1	20	FL PLUG 24HR ST.(1300)COL.P17						
53	1	20	FL PLUG 24HR ST.(1300)COL.P17						
55	1	20	FL PLUG 24HR ST.(1300)COL.P17						
57	1	20	FL PLUG 24HR ST.(1300)COL.P17						
59	1	20	FL PLUG 24HR ST.(1300)COL.P17						
61	1	20	MENS BATHROOM HAND DRYER						
63	1	20	WOMENS BATHROOM HAND DRYER						
65	1	20	SPARE						
67	1	20	SPARE						
69	1	20	SPARE						
71	1	20	SPARE						
73	1	20	SPARE						
75	1	20	SPARE						
77	1	20	SPARE						
79	1	20	SPARE						
81	1	20	SPARE						
83	1	20	SPARE						
2	1	20	OFFICE(1242)						
4	1	20	DIRECTED RESEARCH(1243)						
6	1	20	OFFICE(1242)						
8	1	20	FL PLUG 24HR ST.(1300)COL.R13						
10	1	20	FL PLUG 24HR ST.(1300)COL.R13						
12	1	20	FL PLUG 24HR ST.(1300)COL.R13						
14	1	20	FL PLUG 24HR ST.(1300)COL.R13						
16	1	20	FL PLUG 24HR ST.(1300)COL.R13						
18	1	20	FL PLUG 24HR ST.(1300)COL.R13						
20	1	20	FL PLUG 24HR ST.(1300)COL.Q13						
22	1	20	FL PLUG 24HR ST.(1300)COL.Q13						
24	1	20	FL PLUG 24HR ST.(1300)COL.P13						
26	1	20	FL PLUG 24HR ST.(1300)COL.P13						
28	1	20	FL PLUG 24HR ST.(1300)COL.P13						
30	1	20	FL PLUG 24HR ST.(1300)COL.P13						
32	1	20	FL PLUG 24HR ST.(1300)COL.P13						
34	1	20	FL PLUG 24HR ST.(1300)COL.P13						
36	1	20	FL PLUG 24HR ST.(1300)COL.P13						
38	1	20	FL PLUG 24HR ST.(1300)COL.P13						
40	1	20	FL PLUG 24HR ST.(1300)COL.P13						
42	1	20	FL PLUG 24HR ST.(1300)COL.P13						
44	1	20	FL PLUG 24HR ST.(1300)COL.P13						
46	1	20	FL PLUG 24HR ST.(1300)COL.P13						
48	1	20	SPARE						
50	1	20	SPARE						
52	1	20	SPARE						
54	1	20	SPARE						
56	1	20	SPARE						
58	1	20	SPARE						
60	1	20	SPARE						
62	1	20	SPARE						
64	1	20	SPARE						
66	1	20	SPARE						
68	1	20	SPARE						
70	1	20	SPARE						
72	1	20	SPARE						
74	1	20	SPARE						
76	1	20	SPACE						
78	1	20	SPACE						
80	1	20	SPACE						
82	1	20	SPACE						
84	1	20	SPACE						
CONNECTED KW:					0	Phase Watts:		0	0
CONNECTED AMPS:					0				
DEMAND KW:					0				
DEMAND AMPS:					0				

PANELBOARD: RP-12 (EXISTING AFTER NEW WORK) MOUNTING: SURFACE									
VOLTAGE: 208Y/120V, 3 PHASE, 4 WIRE + G AIC: EXISTING									
MAIN: 400 A MCB FEEDER: EXISTING									
LOCATION: ELECTRICAL ROOM SPD EQUIPPED: YES									
Isolated Ground Bus									
Circ		Breaker		Load Information		Connected Watts			
No	Pole	Tripp	Location	Description	Code	Phase A	Phase B	Phase C	
1	1	20	SPARE						
3	1	20	SPARE						
5	1	20	SPARE						
7	1	20	SPARE						
5	1	20	SPARE						
11	1	20	SPARE						
13	1	20	SPARE						
15	1	20	SPARE						
17	1	20	SPARE						
19	1	20	SPARE						
21	1	20	SPARE						
23	1	20	SPARE						
25	1	20	SPARE						
27	1	20	SPARE						
29	1	20	SPARE						
31	1	20	SPARE						
33	1	20	SPARE						
35	1	20	SPARE						
37	1	20	SPARE						
39	1	20	SPARE						
41	1	20	SPARE						
43	1	20	SPARE						
45	1	20	SPARE						
47	1	20	SPARE						
49	1	20	SPARE						
51	1	20	SPARE						
53	1	20	SPARE						
55	1	20	SPARE						
57	1	20	SPARE						
59	1	20	NEW CONFERENCE ROOM IG RECEPTACLES						
61	1	20	MENS BATHROOM HAND DRYER						
63	1	20	WOMENS BATHROOM HAND DRYER						
65	1	20	SPARE						
67	1	20	SPARE						
69	1	20	SPARE						
71	1	20	SPARE						
73	1	20	SPARE						
75	1	20	SPARE						
77	1	20	SPARE						
79	1	20	SPARE						
81	1	20	SPARE						
83	1	20	SPARE						
2	1	20	OFFICE(1242)						
4	1	20	DIRECTED RESEARCH(1243)						
6	1	20	OFFICE(1242)						
8	1	20	SPARE						
10	1	20	SPARE						
12	1	20	SPARE						
14	1	20	SPARE						
16	1	20	SPARE						
18	1	20	SPARE						
20	1	20	SPARE						
22	1	20	SPARE						
24	1	20	SPARE						
26	1	20	SPARE						
28	1	20	SPARE						
30	1	20	SPARE						
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74	1	20	SPARE						
76	1	20	SPACE						
78	1	20	SPACE						
80	1	20	SPACE						
82	1	20	SPACE						
84	1	20	SPACE						
CONNECTED KW:					0	Phase Watts:		0	0
CONNECTED AMPS:					0				
DEMAND KW:					0				
DEMAND AMPS:					0				



1  
TYP.

1  
TYP.

1  
TYP.

4
6
8

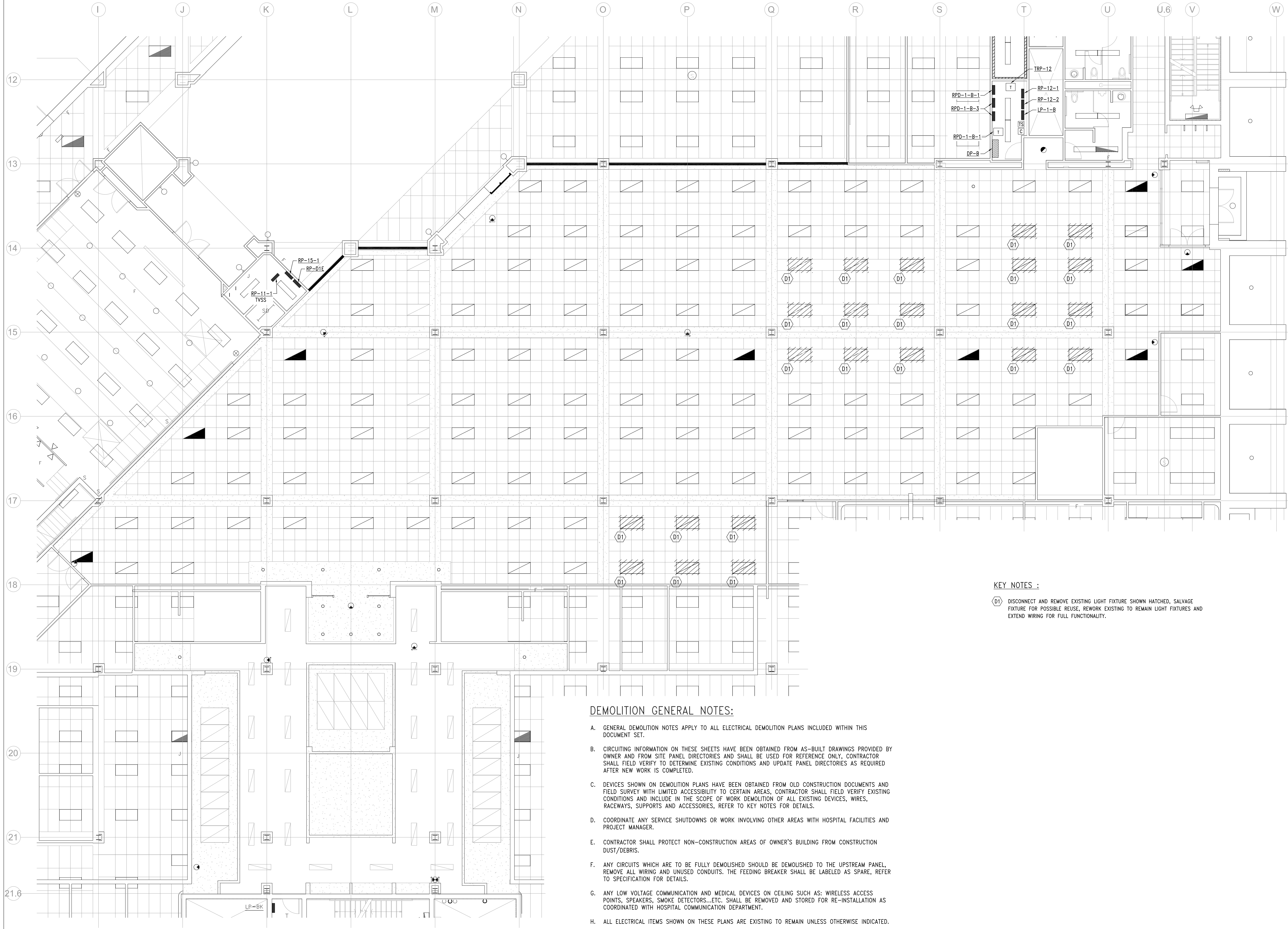
CIRCUIT

1 CROSS-HATCHED CIRCUITS REPRESENT EXISTING CIRCUITS DEMOLISHED AND TO BE USED FOR NEW WORK

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#### DEMOLITION GENERAL NOTES:

- GENERAL DEMOLITION NOTES APPLY TO ALL ELECTRICAL DEMOLITION PLANS INCLUDED WITHIN THIS DOCUMENT SET.
- CIRCUITING INFORMATION ON THESE SHEETS HAVE BEEN OBTAINED FROM AS-BUILT DRAWINGS PROVIDED BY OWNER AND FROM SITE PANEL DIRECTORIES AND SHALL BE USED FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY TO DETERMINE EXISTING CONDITIONS AND UPDATE PANEL DIRECTORIES AS REQUIRED AFTER NEW WORK IS COMPLETED.
- DEVICES SHOWN ON DEMOLITION PLANS HAVE BEEN OBTAINED FROM OLD CONSTRUCTION DOCUMENTS AND FIELD SURVEY WITH LIMITED ACCESSIBILITY TO CERTAIN AREAS, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND INCLUDE IN THE SCOPE OF WORK DEMOLITION OF ALL EXISTING DEVICES, WIRES, RACEWAYS, SUPPORTS AND ACCESSORIES, REFER TO KEY NOTES FOR DETAILS.
- COORDINATE ANY SERVICE SHUTDOWNS OR WORK INVOLVING OTHER AREAS WITH HOSPITAL FACILITIES AND PROJECT MANAGER.
- CONTRACTOR SHALL PROTECT NON-CONSTRUCTION AREAS OF OWNER'S BUILDING FROM CONSTRUCTION DUST/DEBRIS.
- ANY CIRCUITS WHICH ARE TO BE FULLY DEMOLISHED SHOULD BE DEMOLISHED TO THE UPSTREAM PANEL, REMOVE ALL WIRING AND UNUSED CONDUITS. THE FEEDING BREAKER SHALL BE LABELED AS SPARE, REFER TO SPECIFICATION FOR DETAILS.
- ANY LOW VOLTAGE COMMUNICATION AND MEDICAL DEVICES ON CEILING SUCH AS: WIRELESS ACCESS POINTS, SPEAKERS, SMOKE DETECTORS...ETC. SHALL BE REMOVED AND STORED FOR RE-INSTALLATION AS COORDINATED WITH HOSPITAL COMMUNICATION DEPARTMENT.
- ALL ELECTRICAL ITEMS SHOWN ON THESE PLANS ARE EXISTING TO REMAIN UNLESS OTHERWISE INDICATED.

#### KEY NOTES :

- (D1) DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE SHOWN HATCHED, SALVAGE FIXTURE FOR POSSIBLE REUSE, REWORK EXISTING TO REMAIN LIGHT FIXTURES AND EXTEND WIRING FOR FULL FUNCTIONALITY.

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#### DEMOLITION LIGHTING PLAN - LEVEL 1

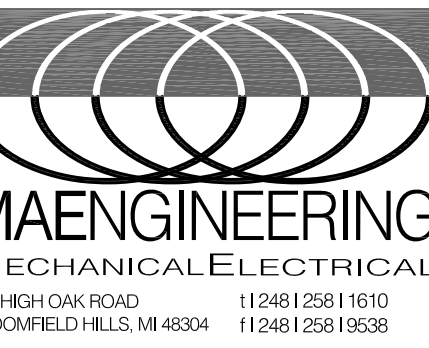
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ROYAL OAK, MI 48067-0925  
P. 248.546.6700  
F. 248.546.8454  
[WWW.STUCKYVITALE.COM](http://WWW.STUCKYVITALE.COM)

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DETROIT, MI 48202

Key Plan:

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DEMOLITION LIGHTING PLAN -  
LEVEL 1

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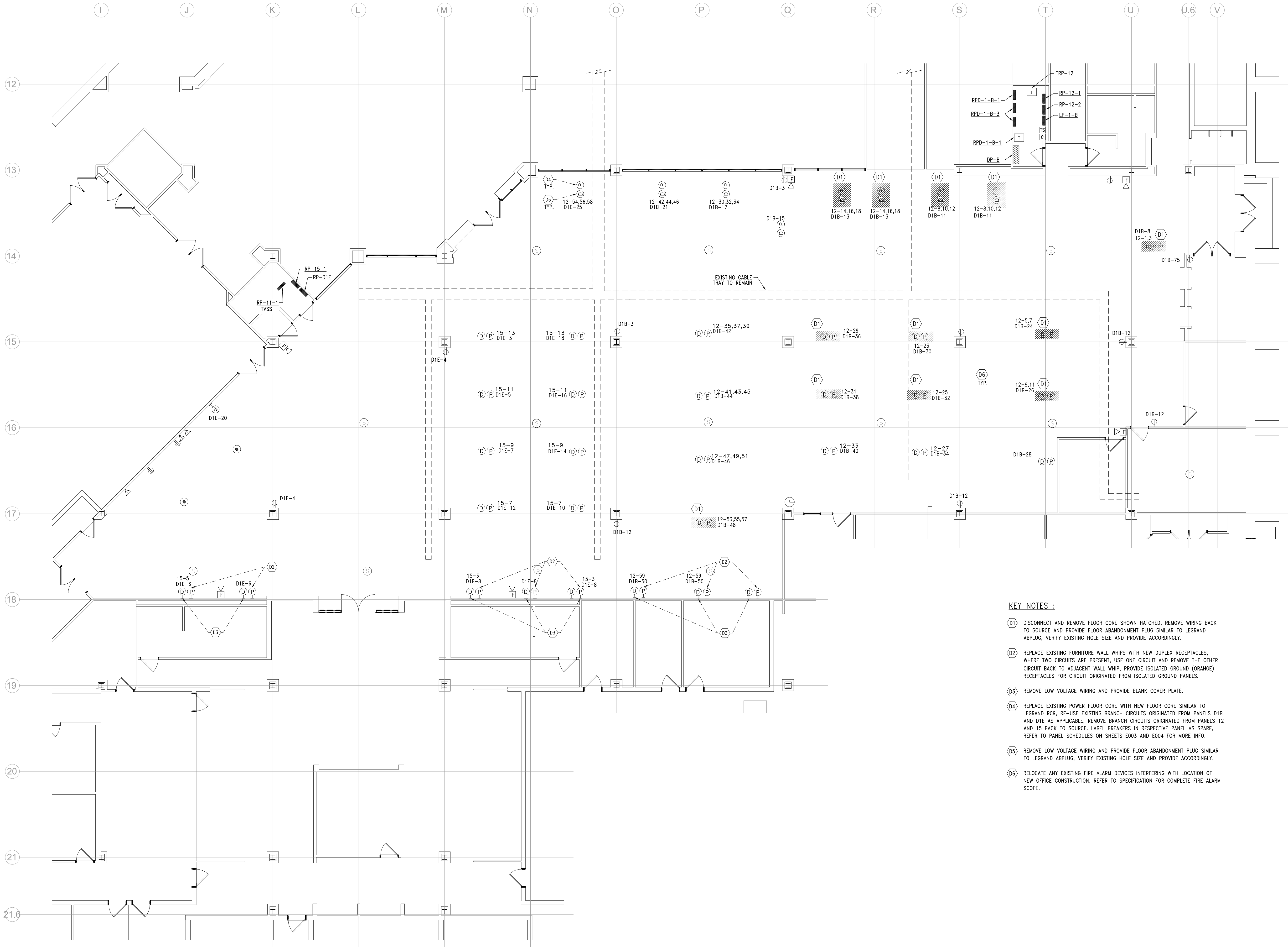
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DEMOLITION POWER PLAN - LEVEL 1

KEY NOTES :

- (D1) DISCONNECT AND REMOVE FLOOR CORE SHOWN HATCHED, REMOVE WIRING BACK TO SOURCE AND PROVIDE FLOOR ABANDONMENT PLUG SIMILAR TO LEGRAND ABPLUG, VERIFY EXISTING HOLE SIZE AND PROVIDE ACCORDINGLY.
- (D2) REPLACE EXISTING FURNITURE WALL WHIPS WITH NEW DUPLEX RECEPTACLES, WHERE TWO CIRCUITS ARE PRESENT, USE ONE CIRCUIT AND REMOVE THE OTHER CIRCUIT BACK TO ADJACENT WALL WHIP, PROVIDE ISOLATED GROUND (ORANGE) RECEPTACLES FOR CIRCUIT ORIGINATED FROM ISOLATED GROUND PANELS.
- (D3) REMOVE LOW VOLTAGE WIRING AND PROVIDE BLANK COVER PLATE.
- (D4) REPLACE EXISTING POWER FLOOR CORE WITH NEW FLOOR CORE SIMILAR TO LEGRAND RC9, RE-USE EXISTING BRANCH CIRCUITS ORIGINATED FROM PANELS D1B AND D1E AS APPLICABLE, REMOVE BRANCH CIRCUITS ORIGINATED FROM PANELS 12 AND 15 BACK TO SOURCE, LABEL BREAKERS IN RESPECTIVE PANEL AS SPARE, REFER TO PANEL SCHEDULES ON SHEETS E003 AND E004 FOR MORE INFO.
- (D5) REMOVE LOW VOLTAGE WIRING AND PROVIDE FLOOR ABANDONMENT PLUG SIMILAR TO LEGRAND ABPLUG, VERIFY EXISTING HOLE SIZE AND PROVIDE ACCORDINGLY.
- (D6) RELOCATE ANY EXISTING FIRE ALARM DEVICES INTERFERING WITH LOCATION OF NEW OFFICE CONSTRUCTION, REFER TO SPECIFICATION FOR COMPLETE FIRE ALARM SCOPE.



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27172 WOODWARD AVENUE  
ROYAL OAK, MI 48067-0925  
P. 248.546.6700  
F. 248.546.8454  
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DEMOLITION POWER PLAN -  
LEVEL 1

Project No. :  
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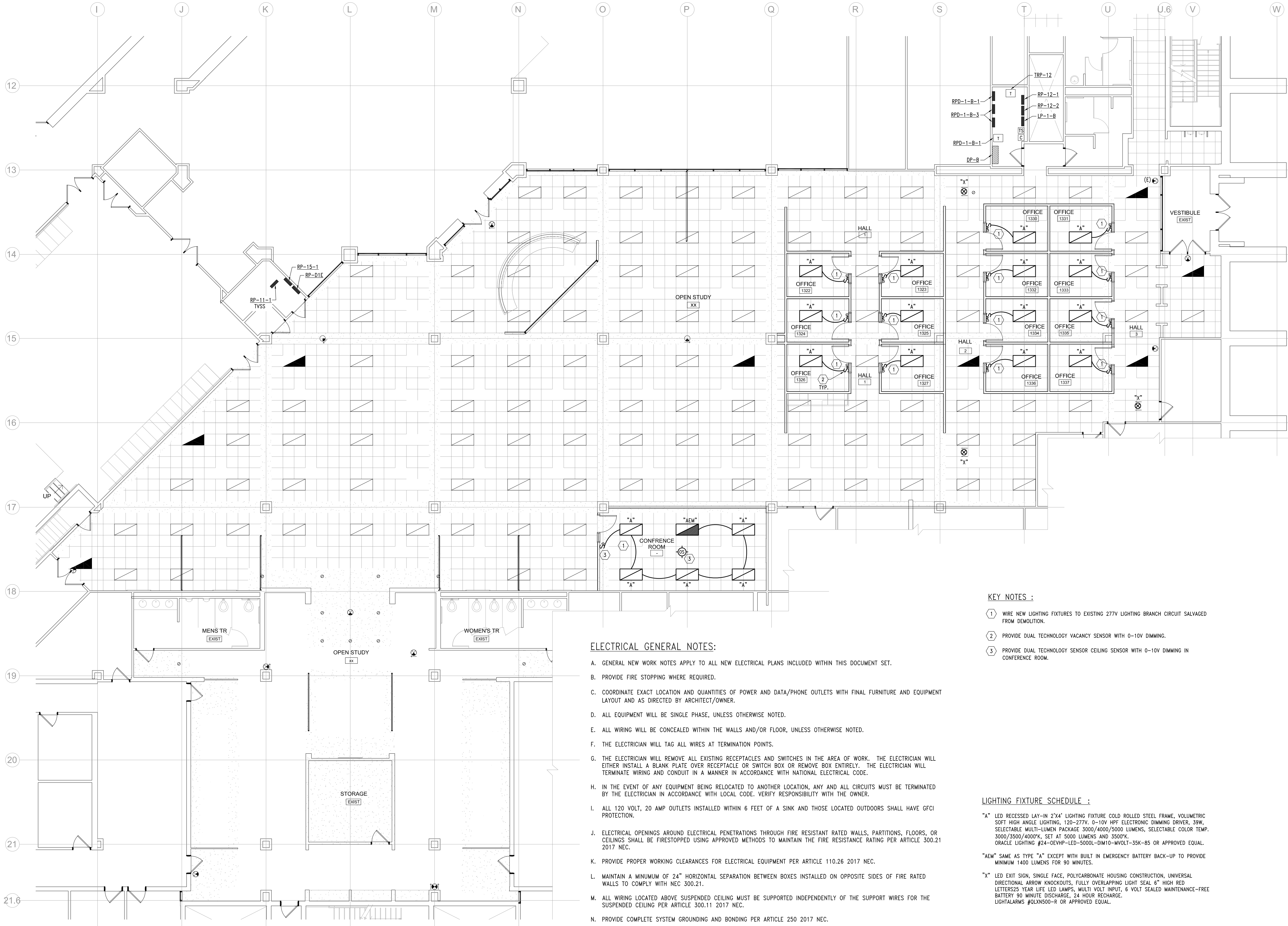
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#### ELECTRICAL GENERAL NOTES:

- GENERAL NEW WORK NOTES APPLY TO ALL NEW ELECTRICAL PLANS INCLUDED WITHIN THIS DOCUMENT SET.
- PROVIDE FIRE STOPPING WHERE REQUIRED.
- COORDINATE EXACT LOCATION AND QUANTITIES OF POWER AND DATA/PHONE OUTLETS WITH FINAL FURNITURE AND EQUIPMENT LAYOUT AND AS DIRECTED BY ARCHITECT/OWNER.
- ALL EQUIPMENT WILL BE SINGLE PHASE, UNLESS OTHERWISE NOTED.
- ALL WIRING WILL BE CONCEALED WITHIN THE WALLS AND/OR FLOOR, UNLESS OTHERWISE NOTED.
- THE ELECTRICIAN WILL TAG ALL WIRES AT TERMINATION POINTS.
- THE ELECTRICIAN WILL REMOVE ALL EXISTING RECEPTACLES AND SWITCHES IN THE AREA OF WORK. THE ELECTRICIAN WILL EITHER INSTALL A BLANK PLATE OVER RECEPTACLE OR SWITCH BOX OR REMOVE BOX ENTIRELY. THE ELECTRICIAN WILL TERMINATE WIRING AND CONDUIT IN A MANNER IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
- IN THE EVENT OF ANY EQUIPMENT BEING RELOCATED TO ANOTHER LOCATION, ANY AND ALL CIRCUITS MUST BE TERMINATED BY THE ELECTRICIAN IN ACCORDANCE WITH LOCAL CODE. VERIFY RESPONSIBILITY WITH THE OWNER.
- ALL 120 VOLT, 20 AMP OUTLETS INSTALLED WITHIN 6 FEET OF A SINK AND THOSE LOCATED OUTDOORS SHALL HAVE GFCI PROTECTION.
- ELECTRICAL OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANT RATED WALLS, PARTITIONS, FLOORS, OR CEILINGS SHALL BE FIRESTOPPED USING APPROVED METHODS TO MAINTAIN THE FIRE RESISTANCE RATING PER ARTICLE 300.21 2017 NEC.
- PROVIDE PROPER WORKING CLEARANCES FOR ELECTRICAL EQUIPMENT PER ARTICLE 110.26 2017 NEC.
- MAINTAIN A MINIMUM OF 24" HORIZONTAL SEPARATION BETWEEN BOXES INSTALLED ON OPPOSITE SIDES OF FIRE RATED WALLS TO COMPLY WITH NEC 300.21.
- ALL WIRING LOCATED ABOVE SUSPENDED CEILING MUST BE SUPPORTED INDEPENDENTLY OF THE SUPPORT WIRES FOR THE SUSPENDED CEILING PER ARTICLE 300.11 2017 NEC.
- PROVIDE COMPLETE SYSTEM GROUNDING AND BONDING PER ARTICLE 250 2017 NEC.

#### KEY NOTES :

- WIRE NEW LIGHTING FIXTURES TO EXISTING 277V LIGHTING BRANCH CIRCUIT SALVAGED FROM DEMOLITION.
- PROVIDE DUAL TECHNOLOGY VACANCY SENSOR WITH 0-10V DIMMING.
- PROVIDE DUAL TECHNOLOGY SENSOR CEILING SENSOR WITH 0-10V DIMMING IN CONFERENCE ROOM.

#### LIGHTING FIXTURE SCHEDULE :

"A" LED RECESSED LAY-IN 2'x4' LIGHTING FIXTURE COLD ROLLED STEEL FRAME, VOLUMETRIC SOFT HIGH ANGLE LIGHTING, 120-277V, 0-10V HPF ELECTRONIC DIMMING DRIVER, 39W, SELECTABLE MULTI-LUMEN PACKAGE 3000/4000/5000 LUMENS, SELECTABLE COLOR TEMP. 3000/3500/4000°K, SET AT 5000 LUMENS AND 3500°K. ORACLE LIGHTING #24-OEVHP-LED-5000L-DIM10-MVOLT-35K-85 OR APPROVED EQUAL.

"AEM" SAME AS TYPE "A" EXCEPT WITH BUILT IN EMERGENCY BATTERY BACK-UP TO PROVIDE MINIMUM 1400 LUMENS FOR 90 MINUTES.

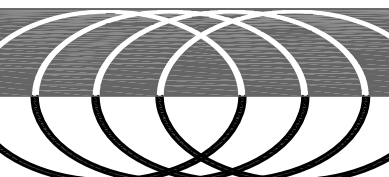
"X" LED EXIT SIGN, SINGLE FACE, POLYCARBONATE HOUSING CONSTRUCTION, UNIVERSAL DIRECTIONAL ARROW KNOCKOUTS, FULLY OVERLAPPING LIGHT SEAL 6" HIGH RED LETTERS25 YEAR LIFE LED LAMPS, MULTI VOLT INPUT, 6 VOLT SEALED MAINTENANCE-FREE BATTERY 90 MINUTE DISCHARGE, 24 HOUR RECHARGE. LIGHTALARMS #QLXN500-R OR APPROVED EQUAL.



STUCKY VITALE ARCHITECTS  
27172 WOODWARD AVENUE  
ROYAL OAK, MI 48067-0925  
P. 248.546.6700  
F. 248.546.8454  
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LIGHTING PLAN - LEVEL 1

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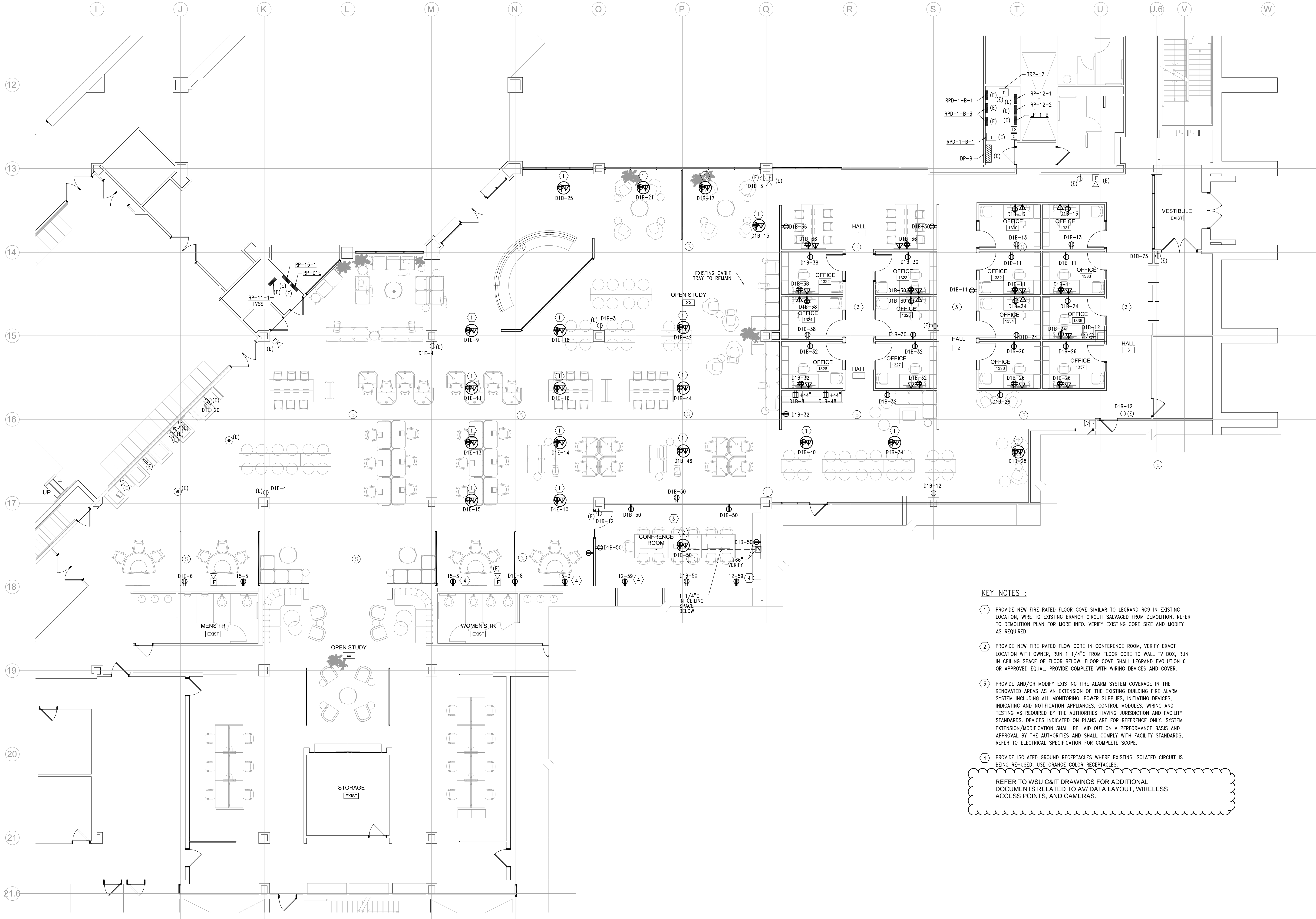
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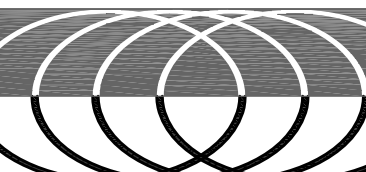
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