WAYNE STATE UNIVERSITY

WAYNE STATE UNIVERSITY FP&M

SCHOOL OF SOCIAL WORK - PHASE 2

5447 WOODWARD
DETROIT, MI 48202

FOR BIDS - 20 JUN 2019

WAYNE STATE UNIVERSITY PROJECT NUMBER: 063-301464
HAMILTON ANDERSON PROJECT NUMBER: 2013088.22

HamiltonAnderson
architecture landscape architecture urban design

Hamilton Anderson Associates, Inc
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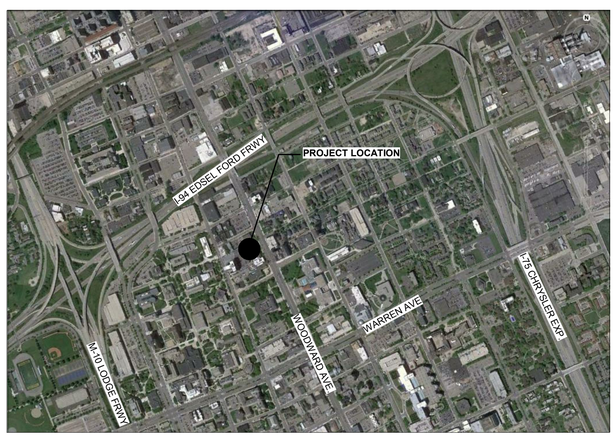
LOCATION MAP:



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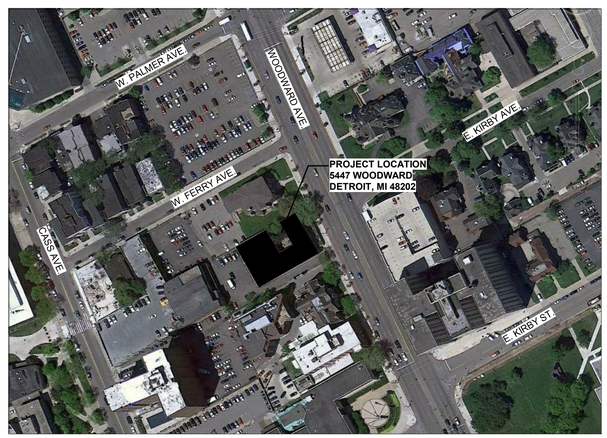
SITE MAP:



N

PROJECT CONTACTS:

OWNER:

Wayne State University
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ENGINEERS
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PROJECT SUMMARY:

Renovation of existing building at 5447 Woodward Avenue into office and classroom space for the School of Social Work. Includes replacement of all windows and curtainwall.

SHEET NO.	SHEET NAME	SHEET ISSUE DATE	20 JUN 2019 FOR BIDS	17 JUNE 2019 PLAN REVIEW
COVER				
CS.1	COVER SHEET	20 JUN 2019	X	X
DI.1	DRAWING INDEX	20 JUN 2019	X	X
2				
GENERAL				
AG0.1	GENERAL NOTES AND DETAILS	20 JUN 2019	X	X
AG0.2	GENERAL SYMBOLS AND ABBREVIATIONS	20 JUN 2019	X	X
AG1.0.1	CODE SUMMARY - PHASE 2	20 JUN 2019	X	X
AG1.1	LOWER LEVEL LIFE SAFETY PLAN	20 JUN 2019	X	X
AG1.2	FIRST LEVEL LIFE SAFETY PLAN	20 JUN 2019	X	X
AG1.3	SECOND LEVEL LIFE SAFETY PLAN	20 JUN 2019	X	X
6				
DEMOLITION				
AD1.0.1	LOWER LEVEL DEMOLITION PLAN	20 JUN 2019	X	X
AD1.1.1	FIRST LEVEL DEMOLITION PLAN	20 JUN 2019	X	X
AD1.2.1	SECOND LEVEL DEMOLITION PLAN	20 JUN 2019	X	X
AD3.0.1	DEMOLITION ELEVATIONS	20 JUN 2019	X	X
4				
ARCHITECTURE				
A0.0	ALTERNATE KEY PLANS	20 JUN 2019	X	
A1.0.1	LOWER LEVEL FLOOR PLAN	20 JUN 2019	X	X
A1.1.1	FIRST LEVEL FLOOR PLAN	20 JUN 2019	X	X
A1.2.1	SECOND LEVEL FLOOR PLAN	20 JUN 2019	X	X
A1.3	ROOF DEMOLITION AND NEW WORK PLAN & DETAILS	20 JUN 2019	X	X
A1.10	ALTERNATE 2 - PLANS	20 JUN 2019	X	
A1.11	ALTERNATE 3 - PLANS	20 JUN 2019	X	
A2.0.1	LOWER LEVEL REFLECTED CEILING PLAN	20 JUN 2019	X	X
A2.1.1	FIRST LEVEL REFLECTED CEILING PLAN	20 JUN 2019	X	X
A2.2.1	SECOND LEVEL REFLECTED CEILING PLAN	20 JUN 2019	X	X
A3.0.1	EXTERIOR ELEVATIONS	20 JUN 2019	X	X
A3.1.1	EXTERIOR STOREFRONT SCHEDULE	20 JUN 2019	X	X
A4.1.1	STRUCTURAL DETAILS	20 JUN 2019	X	X
A4.2.1	SECTION DETAILS	20 JUN 2019	X	X
A4.2.2	PLAN DETAILS	20 JUN 2019	X	X
A6.1	ENLARGED TOILET ROOM PLANS & ELEVATIONS	20 JUN 2019	X	X
A7.1.1	DOOR SCHEDULE	20 JUN 2019	X	X
A7.2.1	ROOM FINISH SCHEDULE	20 JUN 2019	X	X
A7.2.2	MATERIAL INDEX	20 JUN 2019	X	X
A7.4.1	PARTITION TYPES	20 JUN 2019	X	X
A7.4.2	FRAMING DETAILS	20 JUN 2019	X	X
A7.5.1	MILLWORK DETAILS	20 JUN 2019	X	X
A7.5.2	MILLWORK DETAILS	20 JUN 2019	X	X
A7.5.3	MILLWORK DETAILS	20 JUN 2019	X	X
A7.5.4	CEILING DETAILS	20 JUN 2019	X	X
A7.6.1	CASEWORK DETAILS	20 JUN 2019	X	X
A7.7.0	LOWER LEVEL FINISH/SIGNAGE PLAN	20 JUN 2019	X	X
A7.7.1	FIRST LEVEL FINISH/SIGNAGE PLAN	20 JUN 2019	X	X
A7.7.2	SECOND LEVEL FINISH/SIGNAGE PLAN	20 JUN 2019	X	X
A7.8.1	SIGNAGE SCHEDULE	20 JUN 2019	X	X
30				
MECHANICAL				
M0.1	MECHANICAL STANDARDS AND DRAWING INDEX	20 JUN 2019	X	X
MD1.00	UNDERGROUND PLUMBING DEMOLITION PLAN	20 JUN 2019	X	X
MD2.0	LOWER LEVEL PLUMBING DEMOLITION PLAN	20 JUN 2019	X	X
MD2.1	FIRST FLOOR PLUMBING DEMOLITION PLAN	20 JUN 2019	X	X
MD2.2	SECOND FLOORPLUMBING DEMOLITION PLAN	20 JUN 2019	X	X
MD3.1	FIRST FLOOR HVAC PIPING DEMOLITION PLAN	20 JUN 2019	X	X
MD3.2	SECOND FLOOR HVAC PIPING DEMOLITION PLAN	20 JUN 2019	X	X
MD4.0	LOWER LEVEL SHEET METAL DEMOLITION PLAN	20 JUN 2019	X	X
MD4.1	FIRST FLOOR SHEET METAL DEMOLITION PLAN	20 JUN 2019	X	X
MD4.2	SECOND FLOOR SHEET METAL DEMOLITION PLAN	20 JUN 2019	X	X
MD4.3	ROOF MECHANICAL DEMOLITION PLAN	20 JUN 2019	X	X
M2.00	UNDERGROUND PLUMBING PLAN	20 JUN 2019	X	X
M2.0	LOWER LEVEL PLUMBING PLAN	20 JUN 2019	X	X
M2.0-ALT	LOWER LEVEL PLUMBING PLAN - ALTERNATE	20 JUN 2019	X	
M2.1	FIRST FLOOR PLUMBING PLAN	20 JUN 2019	X	X
M2.1-ALT	FIRST FLOOR PLUMBING PLAN - ALTERNATE	20 JUN 2019	X	
M2.2	SECOND FLOOR PLUMBING PLAN	20 JUN 2019	X	X
M3.0	LOWER LEVEL HVAC PIPING PLAN	20 JUN 2019	X	X
M3.1	FIRST FLOOR HVAC PIPING PLAN	20 JUN 2019	X	X
M3.2	SECOND FLOOR HVAC PIPING PLAN	20 JUN 2019	X	X
M4.0	LOWER LEVEL SHEET METAL PLAN	20 JUN 2019	X	X
M4.1	FIRST FLOOR SHEET METAL PLAN	20 JUN 2019	X	X
M4.2	SECOND FLOOR SHEET METAL PLAN	20 JUN 2019	X	X
M4.3	ROOF MECHANICAL PLAN	20 JUN 2019	X	X
M5.1	PLUMBING ENLARGED PLANS	20 JUN 2019	X	X
M5.2	MECHANICAL DEMOLITION AND NEW WORK PLANS - ALTERNATE	20 JUN 2019	X	
M6.1	MECHANICAL DETAILS	20 JUN 2019	X	X
M6.2	MECHANICAL DETAILS	20 JUN 2019	X	X
M6.3	MECHANICAL DETAILS	20 JUN 2019	X	X
M6.4	MECHANICAL DETAILS	20 JUN 2019	X	X
M7.1	MECHANICAL SCHEDULES	20 JUN 2019	X	X
M7.2	MECHANICAL SCHEDULES	20 JUN 2019	X	X
M7.3	MECHANICAL SCHEDULES	20 JUN 2019	X	X
M7.4	MECHANICAL SCHEDULES	20 JUN 2019	X	X
M8.1	TEMPERATURE CONTROLS STANDARDS AND GENERAL NOTES	20 JUN 2019	X	X
M8.2	TEMPERATURE CONTROLS	20 JUN 2019	X	X
M8.3	TEMPERATURE CONTROLS	20 JUN 2019	X	X
37				
ELECTRICAL				
E0.1	ELECTRICAL STANDARDS AND DRAWING INDEX	20 JUN 2019	X	X
E0.2	ELECTRICAL STANDARD SCHEDULES	20 JUN 2019	X	X
ED2.0	LOWER LEVEL LIGHTING DEMOLITION PLAN	20 JUN 2019	X	X
ED2.1	FIRST FLOOR LIGHTING DEMOLITION PLAN	20 JUN 2019	X	X
ED2.2	SECOND FLOOR LIGHTING DEMOLITION PLAN	20 JUN 2019	X	X
ED3.0	LOWER LEVEL POWER DEMOLITION PLAN	20 JUN 2019	X	X
ED3.1	FIRST FLOOR POWER DEMOLITION PLAN	20 JUN 2019	X	X
ED3.2	SECOND FLOOR POWER DEMOLITION PLAN	20 JUN 2019	X	X
ED3.3	ROOF ELECTRICAL DEMOLITION PLAN	20 JUN 2019	X	X
E2.0	LOWER LEVEL LIGHTING PLAN	20 JUN 2019	X	X
E2.1	FIRST FLOOR LIGHTING PLAN	20 JUN 2019	X	X
E2.2	SECOND FLOOR LIGHTING PLAN	20 JUN 2019	X	X
E3.0	LOWER LEVEL POWER AND AUXILIARY SYSTEMS PLAN	20 JUN 2019	X	X
E3.1	FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN	20 JUN 2019	X	X
E3.2	SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN	20 JUN 2019	X	X
E3.3	ROOF POWER AND AUXILIARY SYSTEMS PLAN	20 JUN 2019	X	X
E4.1	ELECTRICAL DEMOLITION AND NEW WORK PLANS - ALTERNATE	20 JUN 2019	X	
E5.1	ONE LINE DIAGRAM - DEMOLITION	20 JUN 2019	X	X
E5.2	ONE LINE DIAGRAM - NEW WORK	20 JUN 2019	X	X
E5.3	PANEL SCHEDULES	20 JUN 2019	X	X
E7.1	ELECTRICAL DETAILS AND DIAGRAMS	20 JUN 2019	X	X
21				
SECURITY				
SC-FPL	LOWER LEVEL SECURITY FLOOR PLAN	20 JUN 2019	X	
SC-FP1	FIRST FLOOR SECURITY FLOOR PLAN	20 JUN 2019	X	
SC-FP1A	FIRST LEVEL ALTERNATE SECURITY PLAN	20 JUN 2019		
SC-FP2	SECOND LEVEL SECURITY PLAN	20 JUN 2019	X	
SC-R1	SECURITY RISER DIAGRAM	20 JUN 2019	X	
SC-R2	SECURITY RISER DIAGRAM	20 JUN 2019	X	
6				

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Structural Engineer: Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

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Client
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5454 Cass Avenue
Detroit, Michigan

Key Plan:

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
DRAWING INDEX

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale:

Seal:

Signature:

Drawing No:

DI.1

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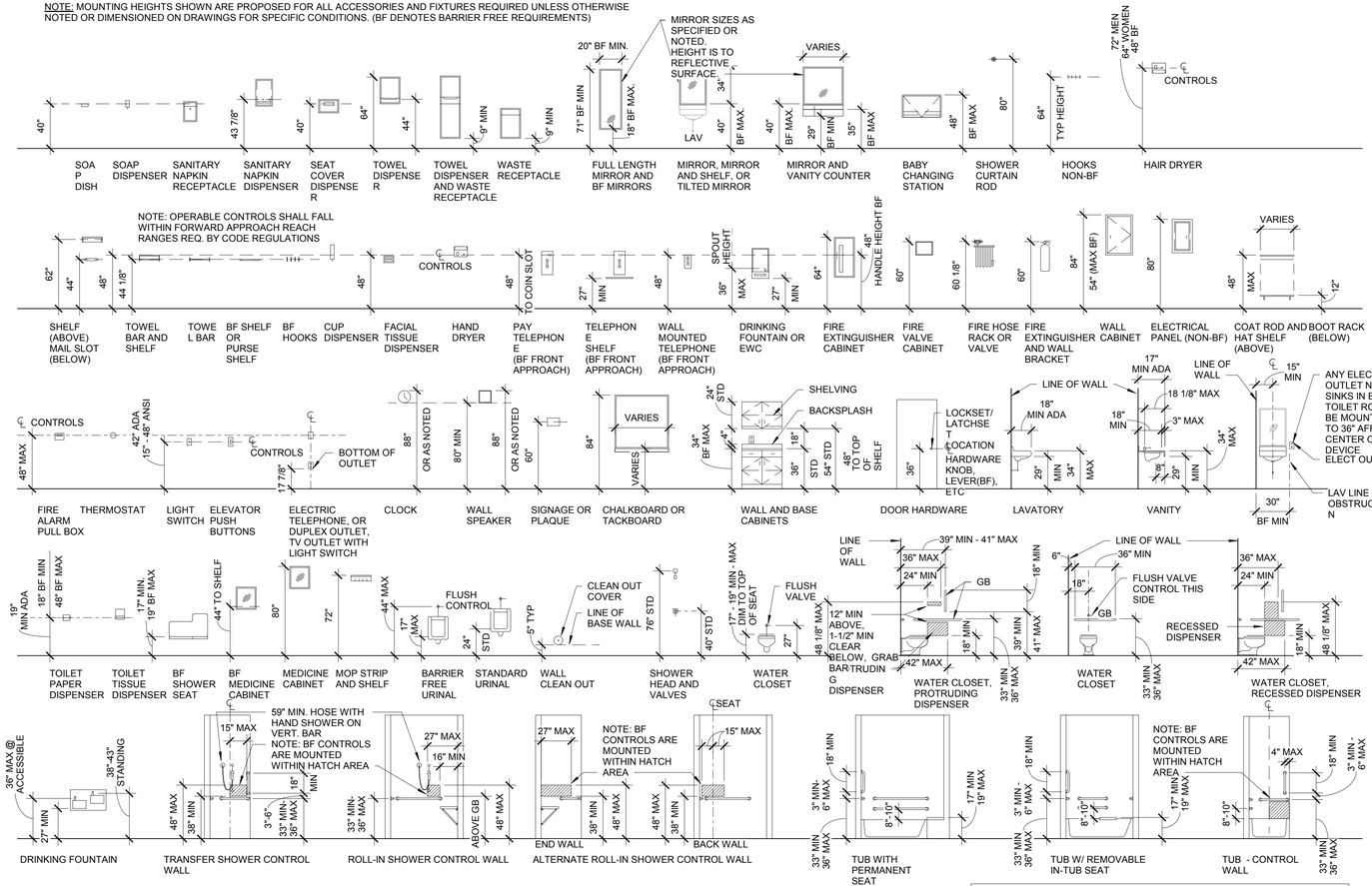
TYPICAL MOUNTING HEIGHTS (ADA & ANSI A117.1-2009)

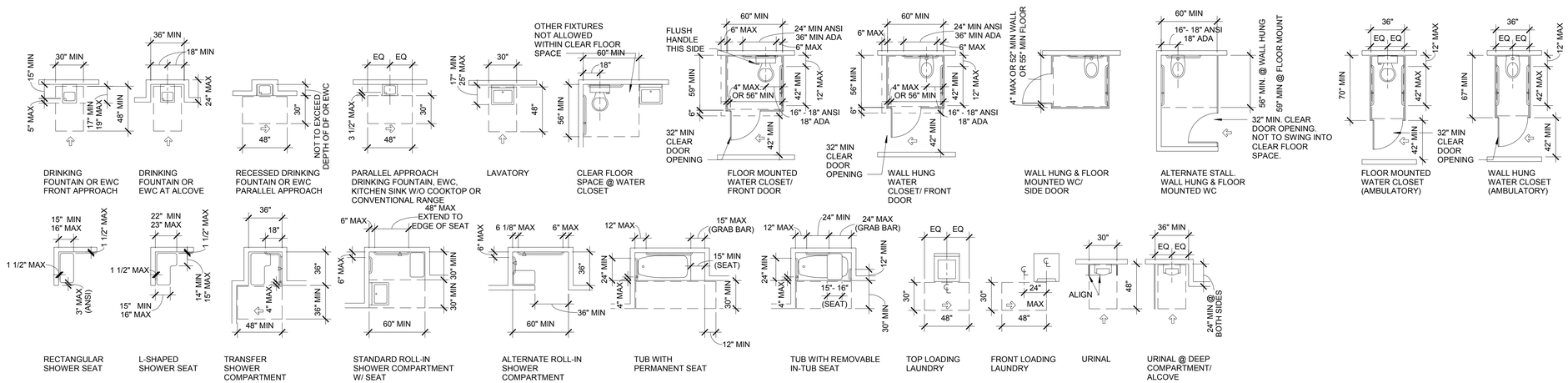
MISCELLANEOUS ACCESSORIES, TOILET ACCESSORIES AND FIXTURES

NOTE: MOUNTING HEIGHTS SHOWN ARE PROPOSED FOR ALL ACCESSORIES AND FIXTURES REQUIRED UNLESS OTHERWISE NOTED OR DIMENSIONED ON DRAWINGS FOR SPECIFIC CONDITIONS. (BF DENOTES BARRIER FREE REQUIREMENTS)

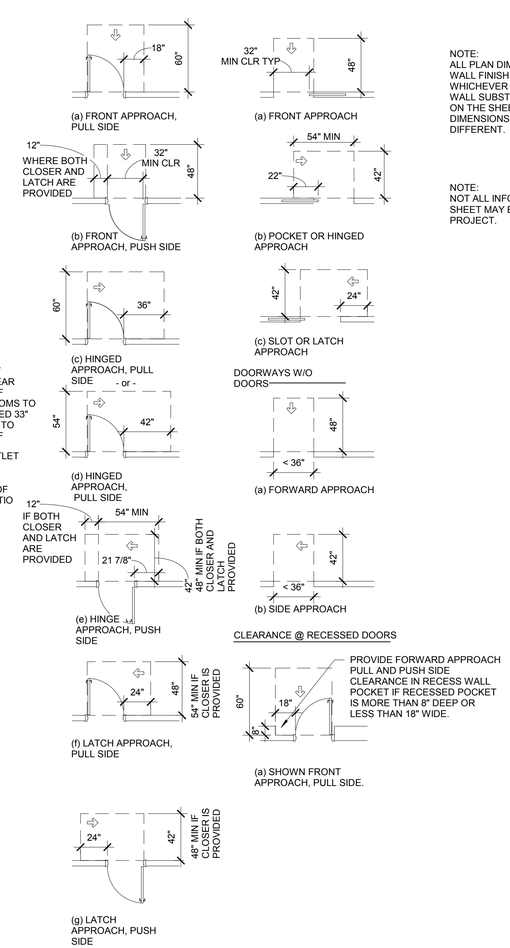


NOTE:
IN ALL ANSI TYPE B UNITS, PROVIDE WALL REINFORCEMENT AT ALL FUTURE GRAB BAR & SHOWER SEAT LOCATIONS AT TOILETS AND TUBS. LOCATIONS OF GRAB BARS SHALL BE PER ANSI 2009 WHEN ALL CONSTRUCTION ALLOWS.

TYPICAL CLEAR FLOOR SPACE REQUIREMENTS (ADA & ANSI A117.1-2009)



MINIMUM CLEARANCES FOR MANUAL DOORS (ADA & ANSI A117.1-2009)



NOTE:
ALL PLAN DIMENSIONS ARE TO FACE OF WALL FINISH MATERIAL OR WALL BASE - WHICHEVER PROJECTS FARTHEST FROM WALL SUBSTRATE - MIN CODE DIMENSIONS ON THE SHEET SUPERSEDES ANY OTHER DIMENSIONS IN THE SET THAT MIGHT BE DIFFERENT.

NOTE:
NOT ALL INFORMATION SHOWN ON THIS SHEET MAY BE IS INCLUDED IN THIS PROJECT.

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Detroit, Michigan

Key Plan:

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
GENERAL NOTES AND DETAILS

Project Number: 2013088.22 WSU Project No: 063-301464
Drawn By: HM/JAM Approved By: RH
Scale: 3/16" = 1'-0"
Seal:

Signature:

Drawing No:
AG0.1

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ABBREVIATIONS

AB	ANCHOR BOLT
ABR	ABRASIVE
ABV	ABOVE
AC	ACOUSTIC/ACOUSTICAL
A/C	AIR CONDITIONING
ACC	ACCESS
ACH	AIR CONDITIONING UNIT
ADD	ADDENDUM
ADDN	ADDITION
ADDNL	ADDITIONAL
ADH	ADHESIVE
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM/AL	ALUMINUM
AMP	AMPERE
AMT	AMOUNT
ANCH	ANCHOR
&	AND
ANOD	ANODIZED
AP	ACCESS PANEL
APPD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECT/ARCHITECTURAL
ASPH	ASPHALT
ASSY	ASSEMBLY
@	AT
AUTO	AUTOMATIC
AVG	AVERAGE
B/B	BACK TO BACK
BBD	BULLETIN BOARD
BD	BOARD
BETW	BETWEEN
BF	BARRIER FREE
BIT	BITUMINOUS
BJF	BITUMINOUS JOINT FILLER
BLDG	BUILDING
BLK	BLOCK/BLOCKING
BLVD	BOULEVARD
BM	BEAM/BENCHMARK
BOT	BOTTOM
BPL	BASE PLATE
BR	BEDROOM/BRASS/BULLET RESISTANT
BRG	BEARING
BRK	BRICK
BRL	BEARING PLATE
BS	BOTH SIDES
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BULL	BULLETIN
BUR	BUILT-UP ROOF
BW	BOTH WAYS
CA	COMPRESSED AIR
CAB	CABINET
CAT	CATALOG NUMBER
CB	CATCH BASIN/CHALKBOARD
C/C	CENTER TO CENTER
CCTV	CLOSED CIRCUIT TELEVISION
CEM	CEMENT
CER	CERAMIC
CF	CUBIC FEET
CFL	COUNTER FLASHING
CFM	CUBIC FEET PER MINUTE
CG	CORNER GUARD
CH	COAT HOOK
CI	CAST IRON
CIP	CAST IRON PIPE/CAST IN PLACE
CIR	CIRCLE/CIRCULAR
CJ	CONTROL JOINT
CL	CENTERLINE/CLASS
CLG	CEILING
CLL	CONTRACT LIMIT LINE
CLOS	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CNL	CHANNEL
CNTR	COUNTER
CO	CLEAN OUT/COMPANY
COL	COLUMN
COMP	COMPOSITION/COMPOSITE
CONC	CONCRETE
COND	CONDUIT
CONF	CONFERENCE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUE/CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR/CORRUGATED
CP	CONTROL PANEL
CPL	CEMENT PLASTER
CSK	COUNTERSINK
CTR	CENTER/CENTERED
CUH	CABINET UNIT HEATER
CW	COLDWATER
CY	CUBIC YARD
CYC	CYCLES
CYL	CYLINDER
D	DEEP/DEPTH
DA	DOUBLE ACTING
DB	DECIBEL
DBL	DOUBLE
DES	DESIGN
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIFF	DIFFUSER
DIM	DIMENSION
DISC	DISCONNECT
DISP	DISPENSER/DISPOSAL
DIV	DIVIDER/DIVISION
DL	DEAD LOAD
DN	DOWN
DO	DITTO
DP	DAMPPROOFING
DR	DOOR/DRAIN/DINING ROOM
DRN	DRAIN
DS	DOWN SPOUT
DT	DRAIN TILE
DUP	DUPLICATE
DW	DISHWASHER
DWG	DRAWING

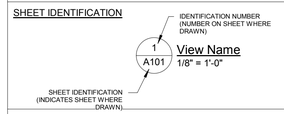
E	EAST
EA	EACH
EB	EXPANSION BOLT
EC	ELECTRICAL CONTACTOR/EXPOSED CONSTRUCTION
E/E	END TO END
EE	EACH END
EF	EACH FACE/EXHAUST FAN
EG	EXHAUST GRILLE
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EJF	EXPANSION JOINT FILLER
EL/ELEV	ELEVATION/ELEVATOR
ELAST	ELASTOMERIC
ELEC	ELECTRIC/ELECTRICAL
EMER	EMERGENCY
ENCL	ENCLOSURE/ENCLOSED
ENTR	ENTRANCE/ENTRY
EP	ELECTRICAL PANEL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL/EQUIVALENT
EQUIP	EQUIPMENT
ER	EXHAUST REGISTER
ESC	ESCALATOR
EST	ESTIMATE
ETC	ETCETERA
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EX	EXPOSED
EXC	EXCAVATED
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F	DEGREES FAHRENHEIT
FA	FIRE ALARM
FAB	FABRICATED
FACP	FIRE ALARM CONTROL PANEL
FAS	FASTENER
FD	FLOOR DRAIN
FDAPR	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
F/F	FACE TO FACE/FINISH TO FINISH
FFE	FINISH FLOOR ELEVATION
FF&E	FIXTURES, FURNISHINGS AND EQUIPMENT
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIG	FIGURE
FIN	FINISH/FINISHED
FIN FLR/FF	FINISH FLOOR
FIXT	FIXTURE
FLASH	FLASHING
FLG	FLOORING/FLASHING/FLANGE
FLR	FLOOR
FLUOR	FLUORESCENT
FPM	FEET PER MINUTE
FPR	FIREPROOF/FIREPROOFING
FR	FIRE RETARDANT
FRM	FRAME
FS	FULL SIZE
FT	FEET/FOOT
FTG	FOOTING
FTP	FULLY TEMPERED
FTR	FINNED TUBE RADIATION
FURN	FURNISH/FURNISHED
FURR	FURRING/FURRED
FUT	FUTURE
FVC	FIRE VALVE CABINET
FVS	FIRE VALVE STATION
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GENL	GENERAL
GF	GROUND FACE
GFRC	GLASS FIBER REINFORCED CONCRETE
GL	GLASS/GRID LINE
GND	GROUND
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HD	HEAVY DUTY
HDWD	HARDWOOD
HDWE	HARDWARE
HEX	HEXAGON
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HP	HIGH POINT/HORSE POWER/HIGH PRESSURE
HR	HOUR
HS	HEAT STRENGTHENED
HGT	HEIGHT
HTG	HEATING
HTR	HEATER
H/V	HEATING AND VENTILATION
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HVC	HOSE VALVE CABINET
HW	HOT WATER
HWH	HOT WATER HEATER
HWL	HEADWALL
ID	IDENTIFICATION/INSIDE DIAMETER
IE	INVERT ELEVATION
IN or "	INCH/INCHES
INCAND	INCANDESCENT
INCL	INCLUDE/INCLUDING
INFO	INFORMATION
INSUL	INSULATATE/INSULATION
INT	INTERIOR/INTERNAL
INTER	INTERMEDIATE
INV	INVERT
IS	INSIDE
JB	JUNCTION BOX/JOINT BACKER
JC	JANITOR CLOSET
JF	JOINT FILLER
JR	JUNIOR
JST	JOIST
JT	JOINT
K	KIP (1000#)
KD	KNOCK DOWN
KIT	KITCHEN
KO	KNOCK OUT
KP	KICK PLATE

LAB	LABORATORY
LAM	LAMINATE/LAMINATED
LAV	LAVATORY
LEV	LEVEL
LF	LINEAR FEET/FOOT
LG	LONG
LH	LEFT HAND
LHRB	LEFT HAND REVERSE BEVEL
LIN	LINEAR DIFFUSER
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LOC	LOCATION
LP	LIGHTING PANEL/LOW POINT
LSF	LIGHT GAUGE STEEL FRAMING
LT	LIGHT/LAUNDRY TRAY
LTG	LIGHTING
LV	LOW VOLTAGE
LW	LIGHT WEIGHT
LWC	LIGHT WEIGHT AGGREGATE CONCRETE
MACH	MACHINE
MAINT	MAINTENANCE
MAS	MASONRY
MATL	MATERIAL
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MC	MEDICINE CABINET/MECHANICAL CONTRACTOR
MCC	MOTOR CONTROL CENTER
MDOT	MICHIGAN DEPARTMENT OF TRANSPORTATION
MDS	METAL DIVIDER STRIP
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MES	METAL EDGE STRIP
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MI	MISCELLANEOUS IRON
MIN	MINIMUM
MISC	MISCELLANEOUS
MK	MARK
ML	METAL LATH
mm	MILLIMETER
MO	MASONRY OPENING
MOD	MODEL/MODULE
MOV	MOVEABLE
MT	METAL THRESHOLD
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL/METTALIC
MTL WP	METALLIC WATERPROOFING
MULL	MULLION
N	NORTH
NA	NOT APPLICABLE
NAT	NATURAL
NIC	NOT IN CONTRACT
NO or #	NUMBER
NOM	NOMINAL
NOR	NORMAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OA	OUTSIDE AIR/OVERALL
OBGL	OBSCURE GLASS
OC	ON CENTER
OD	OUTSIDE DIAMETER/OUTSIDE DIMENSION
OF	OUTSIDE FACE DIMENSION
OFF	OFFICE
OH	OPPOSITE HAND/OVERHEAD
O/O	OUT TO OUT
OPER	OPERATOR/OPERATION
OPG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
ORN	ORNAMENTAL
OZ	OUNCE
PA	PUBLIC ADDRESS
PASS	PASSAGE/PASSENGER
PBD	PARTICLE BOARD
PC	PIECE/PIECES/PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PCP	PRECAST CONCRETE PANEL
PE	PASSANGER ELEVATOR
PERF	PERFORATED
PERIM	PERIMETER
PERM	PERMANENT
PERP	PERPENDICULAR
PG	PAGE
PKG	PARKING
PL	PLATE/PROPERTY LINE
PLAS	PLASTER
PLAT	PLATFORM
PLBG	PLUMBING
PLF	POUNDS PER LINEAR FOOT
PLWD	PLYWOOD
PNL	PANEL
POL	POLISHED
PORT	PORTABLE
POS	POSITION/POSITIVE
PR	PAIR
PREFAB	PREFABRICATED
PRL	PARALLEL
PROJ	PROJECT/PROJECTION
PROP	PROPERTY/PROPOSED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT/PAINT
PTD	PAINTED
PTN	PARTITION
PVG	PAVING
PVC	POLYVINYLCLORIDE
PVMT	PAVEMENT
QTY	QUANTITY
QTR	QUARTER
R	RISER
RAD or R	RADIUS
RAG	RETURN AIR GRILLE
RC	RAIN CONDUCTOR
RCP	REFLECTED CEILING PLAN
RD	ROAD/ROOF DRAIN
REBAR	REINFORCEMENT BAR
REC	RECESS
RECV	RECEIVE/RECEIVING
REF	REFER/REFERENCE
REFL	REFLECTIVE/REFLECTED
REFR	REFRIGERATOR
REG	REGISTER
REINF	REINFORCED CONCRETE/REINFORCE/REINFORCEMENT
REM	REMOVE/REMOVABLE
REQD	REQUIRED
RET	RETURN
REV	REVISED/REVISION
RFG	ROOFING
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RS	ROOF SUMP
RTU	ROOF TOP UNIT
RV	ROOF VENTILATION
RWC	RAIN WATER CONDUCTOR

S	SOUTH/STORM/SINK
SA	SUPPLY AIR
SAB	SOUND ATTENUATION BLANKET
SAG	SUPPLY AIR GRILLE
SAN	SANITARY
SAR	SUPPLY AIR REGISTER
SB	SOIL BEARING
SC	SOLID CORE
SCHED	SCHEDULE
SD	SUPPLY DUCT/DIFFUSER
SECT	SECTION
SF	SQUARE FEET/SQUARE FOOT/SUPPLY FAN
SHR	SHOWER
SHT	SHEET
SIM	SIMILAR
SNT	SEALANT
SOG	SLAB ON GRADE
SP	SPACING
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
STAG	STAGGERED
STC	SOUND TRANSMISSION CLASS
SS	SERVICE SINK
SST	STAINLESS STEEL
ST	STREET
STD	STANDARD
STIFF	STIFFENER
STL	STEEL
STM	STEAM
STOR	STORAGE
STRL	STRUCTURAL
SUB	SUBSTATION
SUPP	SUPPORT
SURF	SURFACE/SURFACING
SUSP	SUSPEND/SUSPENSION
SW	SWITCH
SYM	SYMBOL/SYMMETRICAL
SYS	SYSTEM
T	THERMOSTAT/TREAD
T/	TOP OF
TAN	TANGENT
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TB	TEST BOARING/TOWEL BAR
TBD	TACKBOARD/TO BE DETERMINED
TD	TRENCH DRAIN
TECH	TECHNICAL
TELE	TELEPHONE
TEMP	TEMPERATURE/TEMPORARY/TEMPERED
THK	THICK/THICKNESS
THR	THRESHOLD
THRU	THROUGH/THROUGHOUT
TOS	TOP OF STEEL/TOP OF SLAB
TP	TANGENT POINT
TRAN	TRANSOM/TRANSFORMER
TS	TUBE SECTION/TUBE STEEL/THICKENED SLAB
TV	TELEVISION
TW	THROUGH WALL
TYP	TYPICAL
UC	UNDERCUT
UG	UNDERGROUND
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORY
ULT	ULTIMATE
UNEX	UNEXCAVATED
UNFIN	UNFINISHED
UON	UNLESS OTHERWISE NOTED
UR	URINAL
USGS	UNITED STATES GEOLOGICAL SURVEY
VAC	VACUUM
VAR	VARIABLE/VARIES
VCP	VITRIFIED CLAY PIPE
VENT	VENTILATE/VENTILATION
VERT	VERTICAL/VERTICALLY
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VIT	VITREOUS
VOL	VOLUME
VR	VAPOR RETARDER
VTR	VENT THRU ROOF
W	WIDE/WIDTH/WEST/WASTE/WATTS
W/	WITH
WC	WATER CLOSET
WCAB	WALL CABINET
WD	WOOD
WH	WALL HYDRANT
WL	WORKING LINE
WM	WATER METER
WO	WINDOW OPENING
W/O	WITHOUT
WP	WATERPROOFING/WATERPROOF/WEATHERPROOF
WP	WORKING POINT
WR	WASTE RECEPTICLE/WATER RESISTANT
WSCT	WAINSCOT
WT	WEIGHT/WATERTIGHT
W/W	WALL TO WALL
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
WGL	WIRE GLASS
YD	YARD
YP	YIELD POINT
YR	YEAR
YS	YIELD STRENGTH

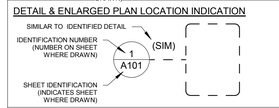
REFERENCE SYMBOLS

SHEET IDENTIFICATION



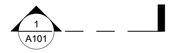
ROOM NAME AND NUMBER IDENTIFICATION

DETAIL & ENLARGED PLAN LOCATION INDICATION



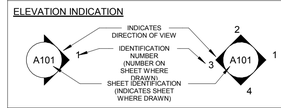
DOOR IDENTIFICATION

SECTION INDICATION



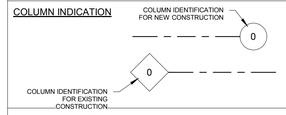
WINDOW IDENTIFICATION

ELEVATION INDICATION



WALL IDENTIFICATION

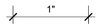
COLUMN INDICATION



CEILING HEIGHT IDENTIFICATION

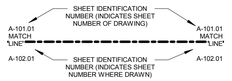
NORTH INDICATION

DIMENSION LINE IDENTIFICATION



LEVEL INDICATION

MATCHLINE IDENTIFICATION



REVISION IDENTIFICATION

REVISION CLOUD IDENTIFICATION

MATERIAL DESIGNATIONS

ELEVATION	SECTION/PLAN	MATERIAL
		CMU BLOCK
		CONCRETE
		BRICK
		BRICK PAVERS
		EARTH
		COMPACTED SUBGRADE
		COMPACTED SAND
		COVER BOARD / INSULATION
		GLASS
		GYPSUM BOARD
		FINISH WOOD
		PLYWOOD
		WOOD BLOCKING

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WAYNE STATE UNIVERSITY

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5454 Cass Avenue
Detroit, Michigan

Key Plan:

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
GENERAL SYMBOLS AND ABBREVIATIONS

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale: As indicated

Seal:

Signature:

Drawing No:
AG0.2

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PLUMBING FIXTURE COUNT - ENTIRE BUILDING

(NON RESIDENTIAL)

MICHIGAN PLUMBING CODE 2015 EDITION (UNLESS OTHERWISE NOTED)		WATER CLOSETS			URINALS	LAVATORIES		
		MALE	FEMALE	FAMILY	MALE	MALE	FEMALE	FAMILY
OCCUPANCY/USE GROUP B (INCLUDES CLASSROOMS WITH OCCUPANT LOADS LESS THAN 50)	EXISTING 193 OCCUPANTS	96.5 OCC	96.5 OCC			96.5 OCC	96.5 OCC	
NUMBER REQUIRED: WC: 1 PER 25 OCCUPANTS FOR FIRST 50 AND 1 PER 50 OCCUPANTS FOR REMAINDER EXCEEDING 50		2.93 REQ	2.93 REQ			2.21 REQ	2.21 REQ	
LAV: 1 PER 40 OCCUPANTS FOR FIRST 80 & 1 PER 80 FOR REMAINDER EXCEEDING 80	NEW 103 OCCUPANTS	51.5 OCC	51.5 OCC			51.5 OCC	51.5 OCC	
		2.03 REQ	2.03 REQ			1.29 REQ	1.29 REQ	
USE GROUP A3 (CONFERENCE ROOMS/LOUNGES AND CLASSROOMS WITH OCCUPANT LOADS GREATER THAN 50)	EXISTING 106 OCCUPANTS	53 OCC	53 OCC			53 OCC	53 OCC	
NUMBER REQUIRED: WC: MEN: 1 PER 125 OCCUPANTS; WOMEN: 1 PER 65 OCCUPANTS; LAV: 1 PER 200 OCCUPANTS		0.42 REQ	0.82 REQ			0.27 REQ	0.27 REQ	
	NEW 125 OCCUPANTS	62.5 OCC	62.5 OCC			73 OCC	73 OCC	
		.5 REQ	.96 REQ			0.37 REQ	0.37 REQ	
NUMBER REQUIRED	EXISTING	3.35	3.75			2.48	2.48	
	NEW	2.53	2.99			1.66	1.66	
TOTAL NUMBER REQUIRED	OVERALL	6	7			5	5	
TOTAL NUMBER PROVIDED	OVERALL	4*	6	5**	2*	4	4	5**
TOTAL JANITOR'S CLOSETS; B: 1 SERVICE SINK REQUIRED; A3: 1 SERVICE SINK REQUIRED		2 REQUIRED; 3 SERVICE SINKS PROVIDED						
TOTAL DRINKING FOUNTAINS; B: 356 OCC @ 1 PER 100 OCCUPANTS= 3.56; A3: 188 OCC @ 1 PER 500 OCCUPANTS = 0.38		4 REQUIRED; 8 DRINKING FOUNTAINS PROVIDED (SEC. 410)						

NOTES:
* URINALS MAY BE SUBSTITUTED FOR UP TO 50% OF REQUIRED WATER CLOSETS IN MALE RESTROOMS (MPC 419.2)
** REFERENCE MPC 2015 SECTION 403.1.2 FAMILY OR ASSISTED-USE TOILET AND BATH FIXTURES

MEANS OF EGRESS OCCUPANT LOAD - CLASSROOM BUILDING

MBC TABLE 1004.1.2 & NFPA 101 A-27-1.7

FLOOR	OCCUPANCY/ FUNCTION OF SPACE	SQUARE FEET OF FLOOR AREA PER OCCUPANT	BUILDING FLOOR AREA PER USE	OCCUPANT LOAD
LOWER LEVEL	BUSINESS AREA	100 GROSS	834	9
	CLASSROOMS (LESS THAN 50 OCC)	20 NET	734	37
	CLASSROOMS (GREATER THAN 50 OCC)	20 NET	1268	64
SUBTOTAL				110
FIRST LEVEL	BUSINESS AREA	100 GROSS	2076	21
	ACCESSORY CONFERENCE/LOUNGE	15 NET	912	61
	STORAGE/EQUIP.	300 GROSS	34	1
SUBTOTAL	CENTER COURT	7 NET	1100	157
SECOND LEVEL				240
SUBTOTAL	BUSINESS AREA	100 GROSS	3351	34
	STORAGE/EQUIP.	300 GROSS	98	1
				35
TOTAL				385 includes courtyards; 228 without courtyards

BUILDING CODE SUMMARY

	MICHIGAN BUILDING CODE 2015 EDITION (MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS 2015 EDITION- ALTERATION LEVEL 02, WORK AREA COMPLIANCE METHOD WHEN NOTED)	2012 NFPA 101 LIFE SAFETY CODE (PER THE STATE FIRE SAFETY BOARD NEW AND EXISTING SCHOOL, COLLEGE AND UNIVERSITY FIRE SAFETY JANUARY 28,2016)	REMARKS
BUILDING AREA	33,254 SF; EXISTING (PARA 502.1)	33,254 GSF; EXISTING (SEC. 3.3.21.1)	
BUILDING USE GROUP	BUSINESS GROUP B (CHAPTER 3)	BUSINESS (CHAPTER 6) (6.1.11.1)	
TYPE OF CONSTRUCTION	TYPE II-B CONSTRUCTION (CHAPTER 6)	TYPE II-000 CONSTRUCTION (TABLE A8.2.1.2)	
FIRE SUPPRESSION PROVIDED	FULLY SPRINKLERED (MBC SECTION 903 & MI REHAB CODE 804)	(9.7.1 & NFPA 13)	
ALLOWABLE BUILDING HEIGHT	75' ALLOWED (TABLE 504.3) 22'-8" EXISTING TO REMAIN		
TABULAR FLOOR AREA PER STORY	69,000 SF (506.2.3)		
ACTUAL FLOOR AREA PER STORY (GROSS FLOOR AREA PARA 502.1)	EXISTING TO REMAIN: LOWER LEVEL = 9681 SF FIRST LEVEL= 9830 + 2063* = 11893 SF SECOND LEVEL = 11680 SF TOTAL = 33254 SF		*AREA UNDER THE PROJECTION OF THE FLOOR ABOVE
OCCUPANT LOAD (MBC TABLE 1004.1.2 & NFPA 101 A-27-1.7)	PER CALCULATIONS FROM "MEANS OF EGRESS OCCUPANT LOAD" TABLE, THIS SHEET: LOWER LEVEL = 110 FIRST LEVEL = 100 ALTERNATE EAST COURTYARD = 190 SECOND LEVEL = 35 TOTAL INDOOR: = 245 TOTAL: = 435		OCCUPANT LOAD CALCULATED FOR "WORK AREA" ONLY
EGRESS TRAVEL LIMITS			
COMMON PATH OF EGRESS TRAVEL	100'-0" FOR BUILDING W/ SPRINKLERS (TABLE 1006.2.1)	100'-0" W/ AUTOMATIC SPRINKLER SYSTEM (39.2.5.3.1)	
EXIT ACCESS TRAVEL DISTANCE LIMIT	300'-0" FOR BUILDING W/ SPRINKLERS (TABLE 1017.2)	300'-0" W/ SUPERVISED AUTOMATIC SPRINKLER SYSTEM (39.2.6.3)	
MAXIMUM LENGTH OF DEAD END CORRIDOR	35'-0" (PER REHAB CODE 805.6) 50'-0" FOR EXISITING CORRIDORS (PER REHAB CODE 805.6, EXCEPTION 2 WITH AUTOMATIC FIRE ALARM SYSTEM)	50'-0" (Table A.7.6)	
CAPACITY OF EGRESS COMPONENTS			
EXIT ACCESS CORRIDORS	0.2" PER OCCUPANT (PARA 1005.3.2 & 1020.2) 44" MIN	0.2" PER OCCUPANT (TABLE 7.3.3.1 & 38.2.3.2) 44" MIN	
STAIRWAYS	0.3 PER OCCUPANT (PARA 1005.3.1 & 1009.3 EXCEPTION 2 & 1011.2) 44" WIDE MINIMUM IN EACH STAIR	0.3" PER OCCUPANT (TABLE 7.3.3.1 & TABLE 7-2.2.2.1(B)) 36" MIN	EXISTING EXIT STAIR 44" 44" TOTAL REQUIRED WIDTH
DOORS	0.2" PER OCCUPANT (PARA 1005.3.2 & 1010.1.1) 32" CLEAR MINIMUM FOR EACH DOOR	0.2" PER OCCUPANT (TABLE 7.3.3.1) 28" MIN (PARA 7.2.1.2.3.2 EXCEPTION 4)	DOORS AT EXIT CORRIDOR AND HORIZONTAL EXIT PROVIDE A TOTAL OF 100" 110 x 0.2 = 22" TOTAL REQUIRED WIDTH
FIRE RESISTANCE RATINGS OF EGRESS COMPONENTS			
CORRIDORS	0-HOUR WITH SPRINKLER (PARA TABLE 1020.1) 1-HOUR WITH SPRINKLER AT OCCUPANCY SEPARATION (TABLE 508.4)	0-HOUR WITH SPRINKLER (38.3.6.1) 1-HOUR WITH SPRINKLER AT OCCUPANCY SEPARATION (TABLE 6.1.14.4.1)	OCCUPANCY SEPARATION REQUIRED BETWEEN ASSEMBLY AND BUSINESS ON LOWER LEVEL
EXIT PASSAGEWAYS	SAME RATING AS STAIR ENCLOSURES-1-HOUR (PARA 1024.3)	SAME RATING AS STAIR ENCLOSURES- 1-HOUR [7.1.3.2.1 (1 & 2)] (7.1.3.22)	
STAIR SHAFTS	1-HOUR EXISTING STAIRS CONNECTING LESS THAN 4 STORIES (PARA 1023.2) | (MI REHAB CODE 803.2.1)	1-HOUR FOR AN EXISTING SEPARATION [7.1.3.2.1 (1 & 2)] AND SUPPORTED BY CONSTRUCTION NOT HAVING LESS THAN A 1-HOUR FIRE RESISTANCE RATING (ITEM 22)	EXISTING MEETS MINIMUM 1 HOUR RATING PER MBC 2015 TABLE 721.1(2) ITEM 3-1; SEE NOTES BELOW REGARDING EXISTING FIRE RESISTANCE RATINGS OF STRUCTURAL ELEMENTS
HORIZONTAL EXITS	N/A	SEE EXISTING NOTES IN REMARKS	EXISTING AT LEVEL 00 AND LEVEL 02 (NFPA 7.2.4)
FIRE BARRIER	NONE REQUIRED	SEE EXISTING NOTES IN REMARKS	EXISTING 2 HOUR FIRE BARRIER (NFPA PARA 7.2.4) PROVIDED TO SEPARATE THE CLASSROOM WING FROM THE OFFICE WING (STATE FIRE SAFETY BOARD ADMIN R29.1932 AMENDMENT 38.1.3.1.1.1)
AREA OF REFUGE	NOT REQUIRED IN ALTERATIONS OF EXISTING BUILDINGS (PARA 1009.1, EXCEPTION 1)	NOT REQUIRED IN ALTERATIONS OF EXISTING BUILDINGS WITH SPRINKLERS (39.2.2.12.2)	
FIRE RESISTANCE RATINGS OF FIRE SEPARATIONS			
SHAFTS - OTHER THAN STAIRS	NEW SHAFTS: 1-HOUR (PARA 713.4) EXISTING SHAFTS: NOT REQUIRED IN BUILDINGS PROTECTED BY AN APPROVED AUTOMATIC FIRE SPRINKLER SYSTEM	1 HOUR (8.6.5-2) 30-MIN FOR EXIST SHAFTS (8.6.5-3)	EXISTING MEETS MINIMUM 1 HOUR RATING PER MBC 2015 TABLE 721.1(2) ITEM 3-1
FURNACE ROOMS OVER 400,000 BTU	0-HOUR W/ FIRE SUPPRESSION SYSTEM (TABLE 509)	0-HOUR W/ FIRE SUPPRESSION SYSTEM (PARA 27-3.2.1(B))	
EXTERIOR WALLS	0-HOUR WITH FIRE SEPARATION DISTANCE GREATER THAN OR EQUAL TO 30' (TABLE 602) 1-HOUR WITH FIRE SEPARATION DISTANCE LESS THAN 5'- NORTH WALL (TABLE 602)		EXISTING MASONRY WALL MEETS MINIMUM 1 HOUR RATING PER MBC 2015 TABLE 721.1(2) ITEM 3-1
FIRE RESISTANCE RATINGS OF STRUCTURAL ELEMENTS	MBC TABLE 601	NFPA 101 TABLE A.8.2.1.2	MINIMUM RATINGS REFERENCED BELOW RELATES TO STAIR SHAFT REQUIREMENTS ABOVE
INTERIOR AND EXTERIOR BEARING WALLS, COLUMNS, BEAMS, GIRDERS, TRUSSES, AND ARCHES (TABLE 601) — SUPPORTING MORE THAN ONE FLOOR, COLUMNS OR OTHER BEARING WALLS	0-HOUR EXTERIOR BEARING WALLS 0-HOUR INTERIOR BEARING WALLS	0-HOUR EXTERIOR BEARING WALLS 0-HOUR INTERIOR BEARING WALLS	EXISTING MEETS MINIMUM 1 HOUR RATING PER MBC 2015 TABLE 721.1(1) ITEM 5-1.1
SUPPORTING ONE FLOOR ONLY	0-HOUR	0-HOUR	EXISTING MEETS MINIMUM 1 HOUR RATING PER MBC 2015 TABLE 721.1(1) ITEM 5-1.1
SUPPORTING A ROOF ONLY	0-HOUR	0-HOUR	EXISTING MEETS MINIMUM 1 HOUR RATING PER MBC 2015 TABLE 721.1(1) ITEM 5-1.1
FLOOR CONSTRUCTION (TABLE 601)	0-HOUR	0-HOUR	EXISITING MEETS MINIMUM 1 HOUR RATING PER MBC 2015 TABLE 721.1(3) ITEMS 1-1.1 THRU 4-1.1
ROOF CONSTRUCTION (TABLE 601)	0-HOUR	0-HOUR	EXISITING MEETS MINIMUM 1 HOUR RATING PER MBC 2015 TABLE 721.1(3) ITEMS 1-1.1 THRU 4-1.1
EXTERIOR NON-BEARING WALLS (TABLE 602)	0-HOUR	0-HOUR	EXISTING MEETS MINIMUM 1 HOUR RATING PER MBC 2015 TABLE 721.1(2) ITEM 3-1

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Structural Engineer: Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

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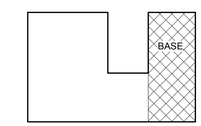

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
CODE SUMMARY - PHASE 2

Project Number: 2013088.22 WSU Project No: 063-301464
Drawn By: HM/JAM Approved By: RH
Scale: 12" = 1'-0"
Seal:

Signature:

Drawing No:
AG1.0.1

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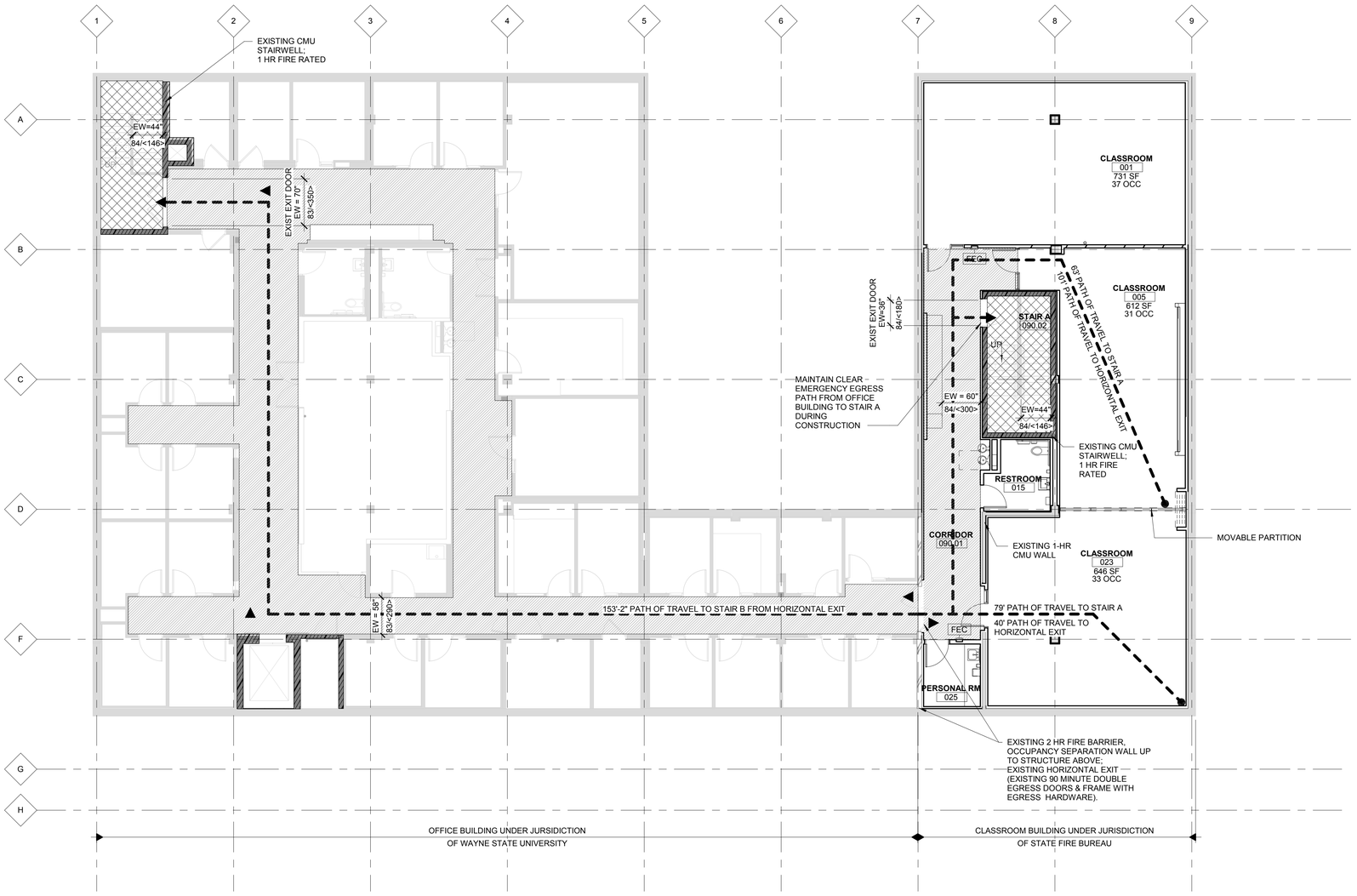

LOWER LEVEL LIFE SAFETY PLAN - PHASE 1

1/8" = 1'-0"

0 4' 8' 16'

LIFE SAFETY PLAN LEGEND

- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- NON RATED WALL
- FIRE DEPARTMENT CONNECTION — FDC FDC
- FIRE EXTINGUISHER CABINET — FEC
- FIRE EXTINGUISHER — FE
- TRAVEL DISTANCE FROM THE MOST REMOTE POINT TO THE CLOSEST EXIT — XXX'-X"
- EXIT ENCLOSURE
- EXIT CORRIDOR
- EXIT SYMBOL
- EGRESS WIDTH — EW=36"
- ACTUAL LOAD — 105/<120>
- ALLOWABLE CAPACITY

LIFE SAFETY PLAN NOTES

1. 1-HR RATED SHAFTWALL CONSTRUCTION AT NEW PENETRATIONS IN EXISTING SHAFTS. SEE PARTITION TYPE 'J'

2. REFER TO AG1.0 FOR WALL MOUNTED FIRE EQUIPMENT HEIGHTS

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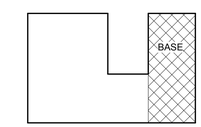
Detroit, Michigan

Key Plan:



FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
LOWER LEVEL LIFE SAFETY PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale: As indicated

Seal:

Signature:

Drawing No:
AG1.1

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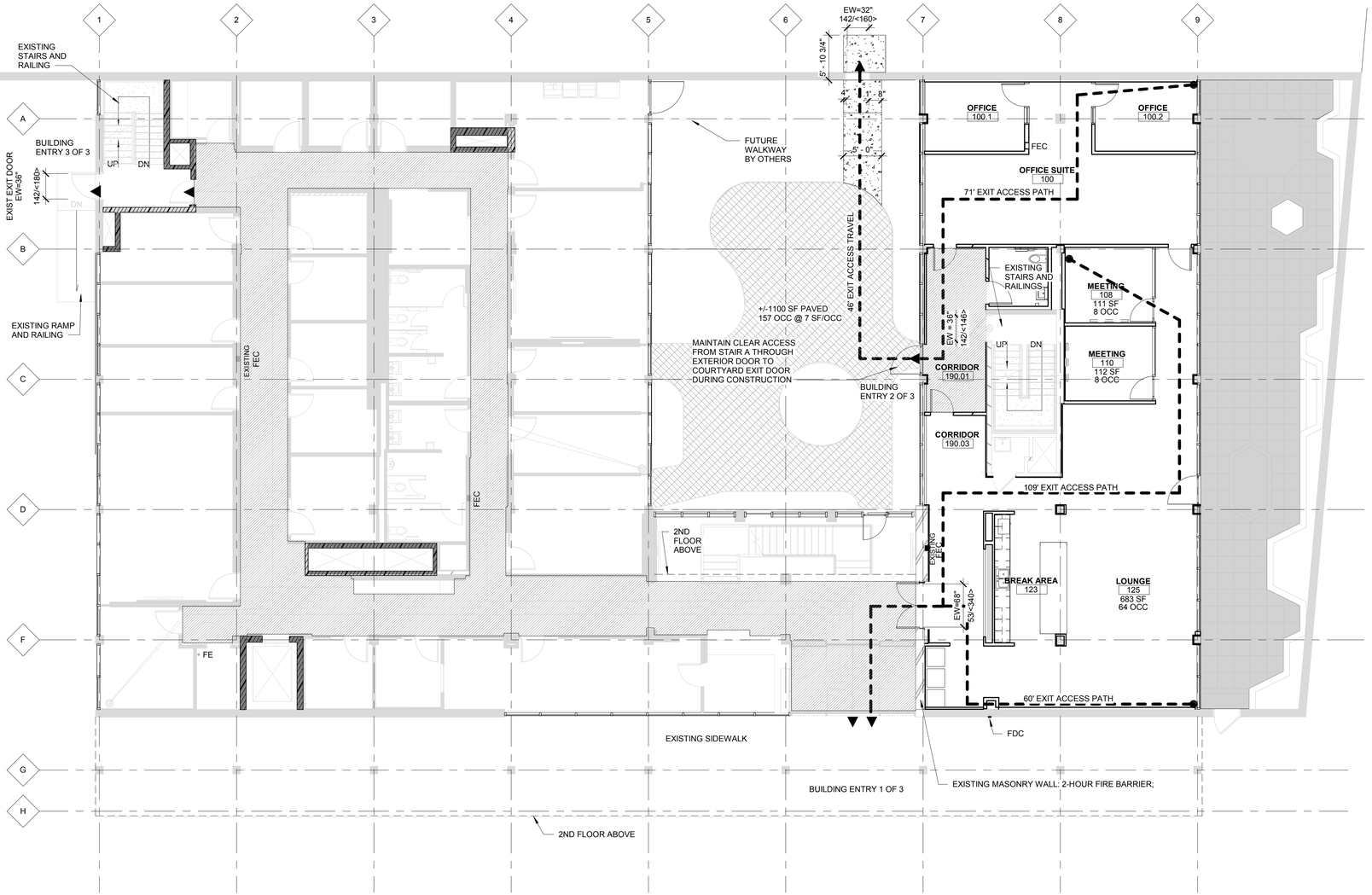

FIRST LEVEL LIFE SAFETY PLAN - PHASE 1

1/8" = 1'-0"

0 4' 8' 16'

LIFE SAFETY PLAN LEGEND

- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- NON RATED WALL
- FIRE DEPARTMENT CONNECTION — FDC FDC
- FIRE EXTINGUISHER CABINET — FEC
- FIRE EXTINGUISHER — FE
- TRAVEL DISTANCE FROM THE MOST REMOTE POINT TO THE CLOSEST EXIT — XXX'-X"
- EXIT ENCLOSURE
- EXIT CORRIDOR
- EXIT SYMBOL
- EGRESS WIDTH — EW=36"
- ACTUAL LOAD — 105/<120>
- ALLOWABLE CAPACITY

LIFE SAFETY PLAN NOTES

1. 1-HR RATED SHAFTWALL CONSTRUCTION AT NEW PENETRATIONS IN EXISTING SHAFTS. SEE PARTITION TYPE 'J'

2. REFER TO AG1.0 FOR WALL MOUNTED FIRE EQUIPMENT HEIGHTS

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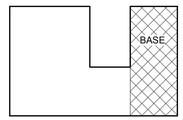
MEP Engineer: Peter Basso Associates, 5145 Livernois, Troy, MI 48098, 248.879.5666

Structural Engineer: Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

WAYNE STATE UNIVERSITY

Client
WAYNE STATE UNIVERSITY FP&M
5454 Cass Avenue
Detroit, Michigan

Key Plan:



FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
FIRST LEVEL LIFE SAFETY PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale: As indicated

Seal:

Signature:

Drawing No:

AG1.2

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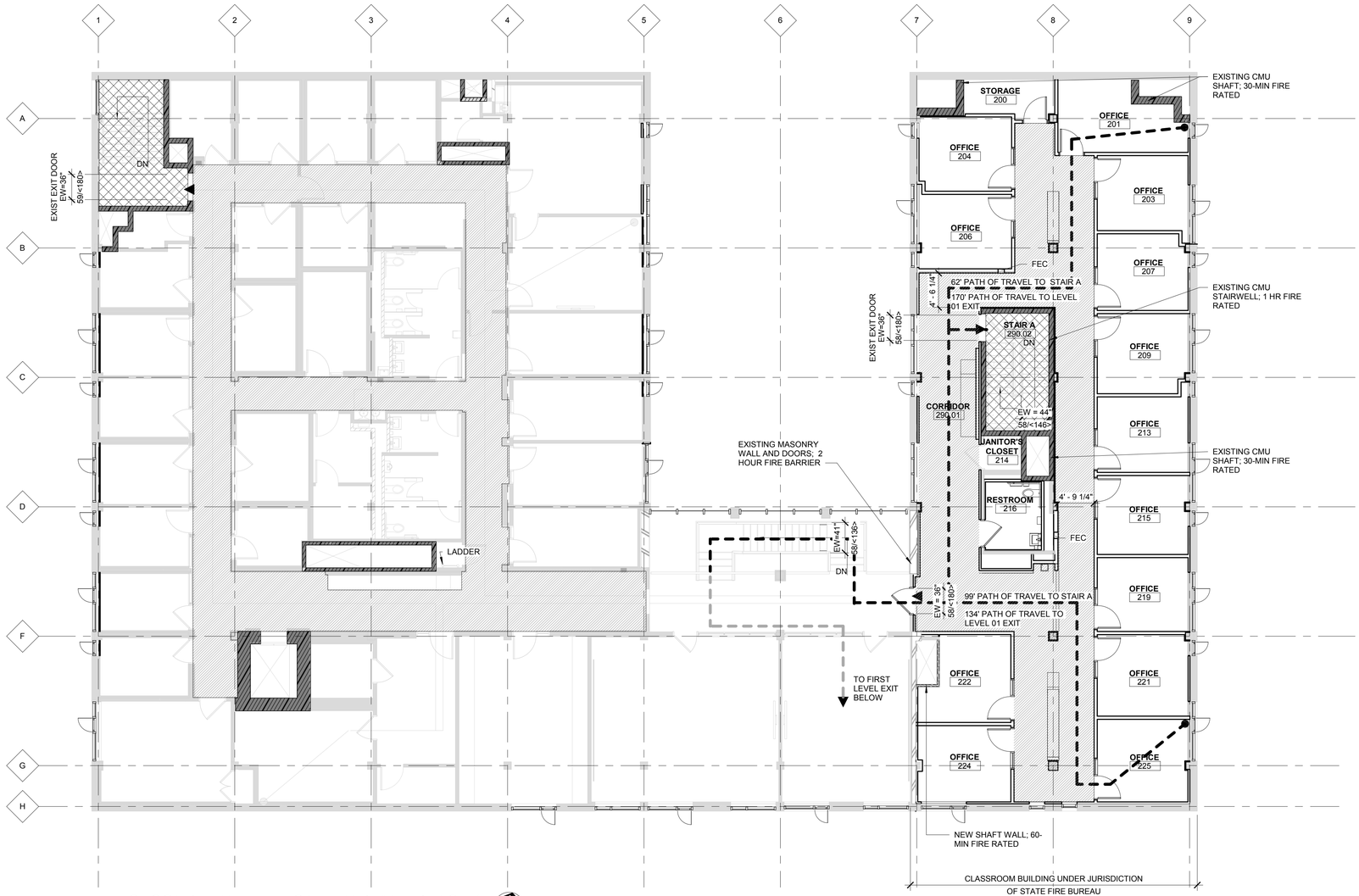

SECOND LEVEL LIFE SAFETY PLAN - PHASE 1

1/8" = 1'-0"

0 4' 8' 16'

LIFE SAFETY PLAN LEGEND

- 1 HR FIRE BARRIER
- 2 HR FIRE BARRIER
- NON RATED WALL
- FIRE DEPARTMENT CONNECTION — FDC
- FIRE EXTINGUISHER CABINET — FEC
- FIRE EXTINGUISHER — FE
- TRAVEL DISTANCE FROM THE MOST REMOTE POINT TO THE CLOSEST EXIT — XXX'-X"
- EXIT ENCLOSURE
- EXIT CORRIDOR
- EXIT SYMBOL
- EGRESS WIDTH — EW=36"
- ACTUAL LOAD — 105/<120>
- ALLOWABLE CAPACITY

LIFE SAFETY PLAN NOTES

1. 1-HR RATED SHAFTWALL CONSTRUCTION AT NEW PENETRATIONS IN EXISTING SHAFTS. SEE PARTITION TYPE 'J'

2. REFER TO AG1.0 FOR WALL MOUNTED FIRE EQUIPMENT HEIGHTS

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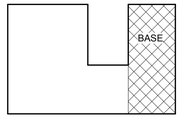
WAYNE STATE UNIVERSITY

Client
WAYNE STATE UNIVERSITY FP&M
5454 Cass Avenue
Detroit, Michigan

Key Plan:



FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
SECOND LEVEL LIFE SAFETY PLAN

Project Number: 2013088.22 — WSU Project No: 063-301464

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Drawing No:

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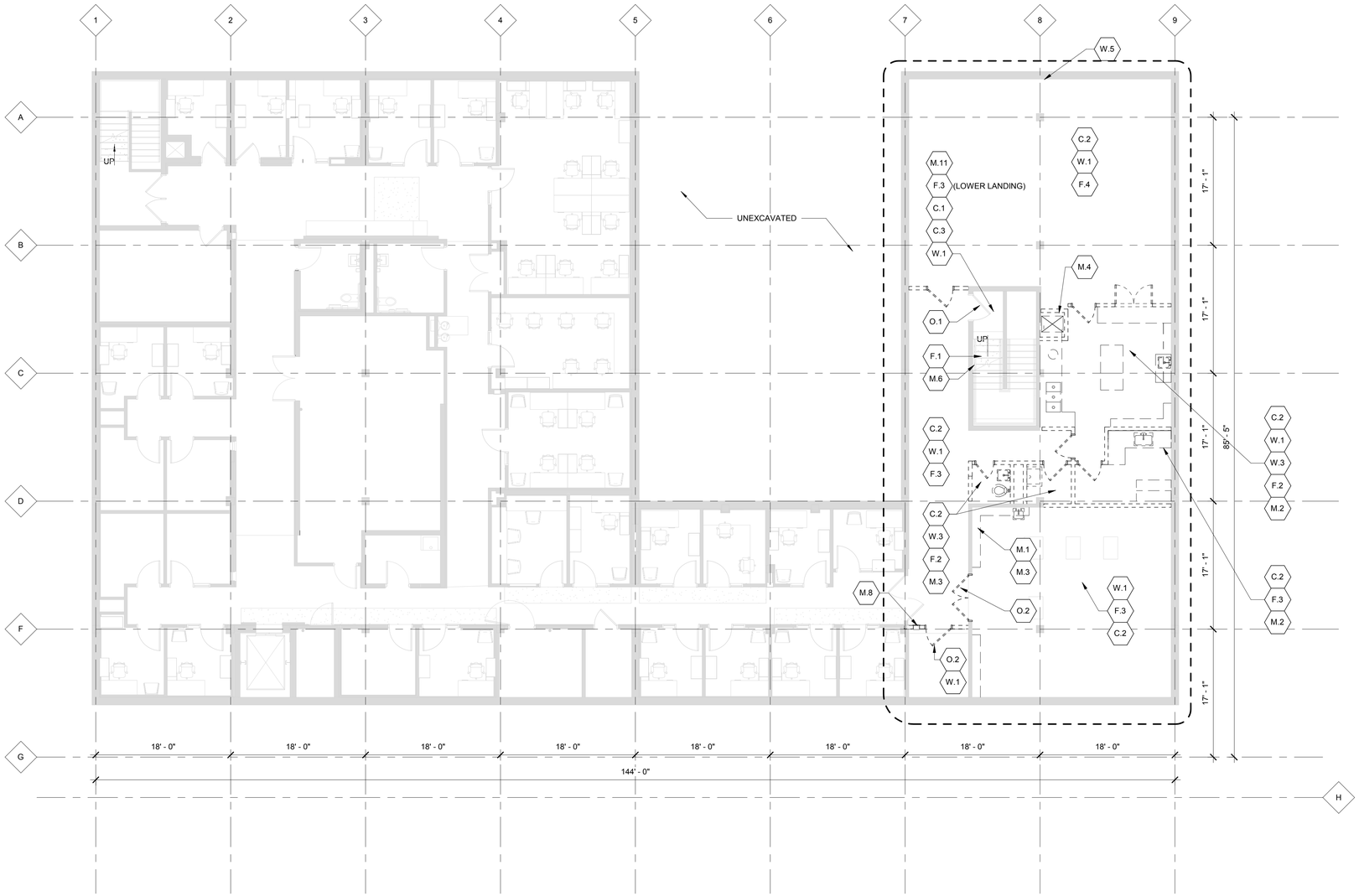

LOWER LEVEL DEMOLITION PLAN

1/8" = 1'-0"

0 4' 8' 16'

NOTE:
REFER TO HAZARDOUS MATERIAL REPORTS FROM OWNER. GC RESPONSIBLE FOR HAZARDOUS MATERIAL REMEDIATION RELATED TO WINDOW DEMOLITION. OWNER IS RESPONSIBLE FOR ALL OTHER HAZARDOUS MATERIAL REMEDIATION.

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE DEMOLITION AS REQUIRED FOR NEW CONSTRUCTION. REFER TO CONTRACT DOCUMENTS FOR EXTENT OF NEW WORK.

2. CONTRACTOR SHALL VISIT SITE TO VERIFY ACTUAL EXTENT OF DEMOLITION PRIOR TO BID. DO NOT RELY SOLELY ON THE DRAWINGS FOR DEMOLITION SCOPE. ALL DEMOLITION REQUIRED TO CARRY OUT THE WORK OF THE CONTRACT SHALL BE PART OF THE CONTRACT. NO ADDITION TO THE CONTRACT AMOUNT WILL BE ALLOWED DUE TO FAILURE TO FIELD VERIFY DEMOLITION SCOPE OR FAILURE TO EXAMINE ALL CONTRACT DOCUMENTS.

3. VERIFY AND INVESTIGATE ALL CONDITIONS IN THE FIELD PRIOR TO STARTING DEMOLITION, NOTIFY ARCHITECT OF DISCREPANCIES. LOCATE AND IDENTIFY SERVICES TO REMAIN IN OPERATION, INCLUDING ALL UTILITY LINES PENETRATING FLOOR, UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC.

4. PRIOR TO CUTTING EXISTING CONSTRUCTION, DETERMINE THE PRESENCE OF AND PROTECT ACTIVE TELECOMMUNICATION, DATA & ELECTRICAL LINES AND PIPING WHICH MAY BE DAMAGED BY SUCH CUTTING.

5. COORDINATE DEMOLITION WITH OWNER'S REQUIREMENTS AND OTHER CONTRACTORS RETAINED BY THE OWNER.

6. CONTROL NOISE, VIBRATION, AND ANY OTHER DISTURBING FACTORS. COORDINATE WORK HOURS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK

7. CONTRACTOR TO FOLLOW OWNER'S REQUIREMENTS FOR ENSURING SECURITY AND SAFETY OF THE BUILDING THROUGH DEMOLITION & CONSTRUCTION.

8. SCHEDULE ALL DEMOLITION AND CONSTRUCTION WORK WITH DESIGNATED OWNER'S REPRESENTATIVE TO MINIMIZE DISRUPTION OF BUILDING ACTIVITIES.

9. FOLLOW REQUIREMENTS IN SMACNA IAQ GUIDELINES FOR OCCUPIED BUILDING UNDER CONSTRUCTION 1995 CHAPTERS 2 & 3 AS WELL AS ANY OTHER APPLICABLE ENVIRONMENTAL REQUIREMENTS.

10. CONTRACTOR IS TO PROVIDE COMPLETE DUST PROOF ENCLOSURE IN ALL AREAS WHERE DEMOLITION IS TO OCCUR. COMPLY WITH ALL OSHA, NFPA AND OTHER APPLICABLE RULES AND REGULATIONS REGARDING DUST AND DEBRIS REMOVAL.

11. UTMOST CARE MUST BE TAKEN DURING DEMOLITION TO ENSURE THAT EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED. REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION ACTIVITIES.

12. PROVIDE CONSTRUCTION WASTE MANAGEMENT PLAN PRIOR TO THE START OF DEMOLITION. TARGET 50% RECYCLING OF CONSTRUCTION WASTE.

13. REMOVE AND REINSTALL ITEMS TO BE SALVAGED WHERE INDICATED AND WHERE ADVISED BY OWNER.

14. INVENTORY AND PHOTOGRAPH SALVAGED ITEMS: LIST SHALL INCLUDE DESCRIPTION OF ITEM, DIMENSIONS (OVERALL WIDTH, HEIGHT, DEPTH), COLOR, APPROX. WEIGHT AND PHOTO.

15. CONTRACTOR SHALL PROTECT ALL STRUCTURAL ELEMENTS FROM DAMAGE DURING CONSTRUCTION.

16. PROTECT EXISTING EXTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES.

17. PROTECT EXISTING INTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES, THAT ARE TO REMAIN (TYP.)

18. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

19. ALL SURFACES THAT ARE TO REMAIN ARE TO BE CLEANED W/ WATER & DETERGENT PRIOR TO INSTALLATION OF NEW FINISHES

20. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.

21. WHEN REMOVING MECHANICAL, ELECTRICAL AND PLUMBING ITEMS, REMOVE ALL ASSOCIATED FASTENERS, CABLE, RODS, ETC.

22. DO NOT PROCEED WITH NEW FLOOR OPENINGS OR WALL OPENINGS UNTIL NEW SUPPORT STRUCTURE IS IN PLACE, SEE STRUCTURAL DETAILS (SHEET A4.1.1).

DEMOLITION SCOPE

CEILINGS:

C.1 WHERE CEILING IS INDICATED TO REMAIN: REMOVE ALL CEILING MOUNTED EQUIPMENT. REMOVE DUST, DIRT AND DEBRIS. REMOVE ALL LOOSE AND PEELING PAINT.

C.2 REMOVE ALL CEILINGS, SOFFITS, AND SUPPORT SYSTEMS UNLESS OTHERWISE INDICATED: REMOVE ALL CEILING MOUNTED EQUIPMENT, RAILS, LIGHTS, GRILLES, PANELS, TILES, FRAMING AND SUSPENSION SYSTEMS. REMOVE ALL ORIGINAL PLASTER AND LATH CEILINGS TO EXPOSE CONCRETE STRUCTURE.

C.3 PLASTER CEILINGS IN STAIRWELLS AND LANDINGS TO REMAIN. U.N.O. REMOVE DUST, DIRT AND DEBRIS. REMOVE ALL LOOSE AND PEELING PAINT FROM PLASTER OR GYP BOARD.

C.4 REMOVE CEILING, BLOCKING AND WINDOW TREATMENT REQUIRED FOR EXTERIOR WINDOW REPLACEMENT. WINDOW TREATMENT TO BE REMOVED AND NUMBERED FOR REINSTALLATION.

WALLS:

W.1 WHERE COLUMNS AND EXISTING PLASTER, GYP BOARD, CMU OR CONCRETE WALLS ARE TO REMAIN: REMOVE ALL LOOSE AND PEELING PAINT.

W.2 FEATURE WALL TO REMAIN.

W.3 REMOVE EXISTING TILE, GROUT, AND PLASTER FROM WALLS AND COLUMNS

W.4 REMOVE EXISTING WALL PANELS AND FASTENERS.

W.5 EXISTING BRICK WALL TO REMAIN. REMOVE ANY ITEMS AFFIXED TO WALL

FLOORS:

F.1 EXISTING VINYL/RESILIENT OR LINOLEUM TILE OR TERRAZZO INDICATED TO REMAIN: REMOVE ALL DEBRIS, DUST AND DIRT.

F.2 REMOVE ALL EXISTING CERAMIC OR CLAY TILE FLOORS AND BASE DOWN TO STRUCTURAL SLAB.

F.3 REMOVE EXISTING WALL BASE, AND REMOVE FLOOR FINISH DOWN TO STRUCTURAL SLAB.

F.4 REMOVE ALL CARPET, WALL BASE AND ADHESIVE DOWN TO STRUCTURAL SLAB.

OPENINGS:

O.1 WHERE EXISTING PAINTED AND FRAMED DOORS ARE TO REMAIN: REMOVE ALL LOOSE AND PEELING PAINT, REMOVE HARDWARE FOR REPLACEMENT WHERE INDICATED IN THE DOOR SCHEDULE.

O.2 REMOVE DOOR, HARDWARE AND FRAME IN ITS ENTIRETY. REMOVE SIDELIGHTS & TRANSOMS WHERE APPLICABLE.

O.3 NOT USED

O.4 REMOVE INDICATED EXTERIOR WALL FOR INSTALLATION OF NEW LINTEL & FRAME. SEE STOREFRONT SCHEDULE ON SHEET A3.1.1 AND DETAILS ON SHEET A4.2.1.

O.5 EXISTING STAINED DOORS ARE TO BE REMOVED & NUMBERED FOR REINSTALLATION OR RELOCATION. REMOVE HARDWARE FOR REPLACEMENT WHERE INDICATED.

O.6 REMOVE INDICATED PORTION OF THE PARTITION FOR INSTALLATION OF NEW LINTEL AND FRAME; SEE DOOR SCHEDULE SHEET A7.1.1 FOR DOOR SIZES AND SHEET A4.1.1 FOR NEW LINTEL.

MISC.:

M.1 ALL CABINETRY AND MILLWORK IS TO BE REMOVED IN ITS ENTIRETY.

M.2 REMOVE PLUMBING, KITCHEN EQUIPMENT, CABINETS AND COUNTER TOPS COMPLETE

M.3 ALL SINKS, DRINKING FOUNTAINS, TOILETS, LAVATORIES, URINALS, TUB/SHOWERS AND WALL-MOUNTED TOILET ROOM ACCESSORIES ARE TO BE REMOVED UNLESS SPECIFICALLY NOTED TO BE SALVAGED. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.

M.4 REMOVE DUMBWAITER AND SHAFT

M.5 REMOVE MECHANICAL SHAFT; FILL HOLES IN CONCRETE SLAB ABOVE &/OR BELOW; SEE SHEET A4.1.1

M.6 REMOVE LOWER WOOD HANDRAILS. TOP RAIL TO REMAIN

M.7 EXISTING JANITOR'S CLOSET TO REMAIN INCLUDING FINISHES AND PLUMBING FIXTURES

M.8 REMOVE FIRE EXTINGUISHER EQUIPMENT

M.9 REMOVE WINDOW SILLS AS REQUIRED FOR WINDOW REPLACEMENT

M.10 NEW FLOOR PENETRATION. COORDINATE WITH MECHANICAL. PENETRATIONS NOT TO INTEFERE WITH CONCRETE WEB JOISTS- REFER TO STRUCTURAL DETAILS (SHEET A4.1.1).

M.11 EXISTING STAIR SIGANGE TO BE REMOVED AND NUMBERED FOR REINSTALLATION.

DEMOLITION LEGEND

- REMOVE WALL COMPLETE
- EXISTING STUD & GYP/PLASTER CONSTRUCTION TO REMAIN, U.N.0.
- REMOVE DOOR, FRAME, AND HARDWARE COMPLETE
- EXISTING DOOR AND FRAME TO REMAIN
- EXISTING TERRAZZO STAIR / LANDING
- AREA OF WORK (BASE PROJECT)

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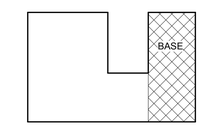

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
LOWER LEVEL DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

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

Seal:

Signature:

Drawing No:
AD1.0.1

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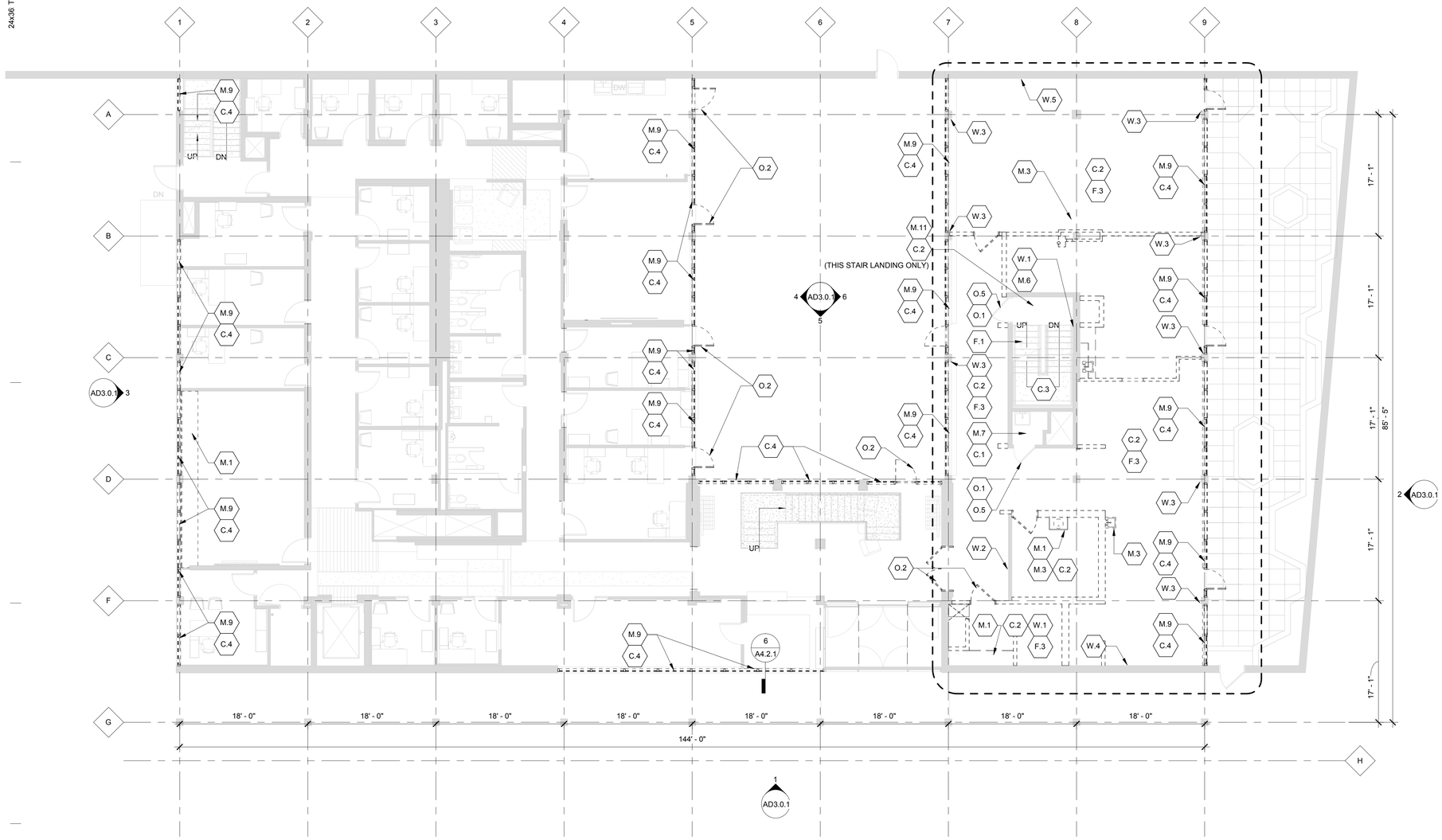

FIRST FLOOR DEMOLITION PLAN

1/8" = 1'-0"

0 4' 8' 16'

DEMOLITION SCOPE

CEILINGS:

C.1 WHERE CEILING IS INDICATED TO REMAIN: REMOVE ALL CEILING MOUNTED EQUIPMENT. REMOVE DUST, DIRT AND DEBRIS. REMOVE ALL LOOSE AND PEELING PAINT.

C.2 REMOVE ALL CEILINGS, SOFFITS, AND SUPPORT SYSTEMS UNLESS OTHERWISE INDICATED: REMOVE ALL CEILING MOUNTED EQUIPMENT, RAILS, LIGHTS, GRILLES, PANELS, TILES, FRAMING AND SUSPENSION SYSTEMS. REMOVE ALL ORIGINAL PLASTER AND LATH CEILINGS TO EXPOSE CONCRETE STRUCTURE.

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C.4 REMOVE CEILING, BLOCKING AND WINDOW TREATMENT REQUIRED FOR EXTERIOR WINDOW REPLACEMENT. WINDOW TREATMENT TO BE REMOVED AND NUMBERED FOR REINSTALLATION.

WALLS:

W.1 WHERE COLUMNS AND EXISTING PLASTER, GYP BOARD, CMU OR CONCRETE WALLS ARE TO REMAIN: REMOVE ALL LOOSE AND PEELING PAINT.

W.2 FEATURE WALL TO REMAIN.

W.3 REMOVE EXISTING TILE, GROUT, AND PLASTER FROM WALLS AND COLUMNS

W.4 REMOVE EXISTING WALL PANELS AND FASTENERS.

W.5 EXISTING BRICK WALL TO REMAIN. REMOVE ANY ITEMS AFFIXED TO WALL

FLOORS:

F.1 EXISTING VINYL/RESILIENT OR LINOLEUM TILE OR TERRAZZO INDICATED TO REMAIN: REMOVE ALL DEBRIS, DUST AND DIRT.

F.2 REMOVE ALL EXISTING CERAMIC OR CLAY TILE FLOORS AND BASE DOWN TO STRUCTURAL SLAB.

F.3 REMOVE EXISTING WALL BASE, AND REMOVE FLOOR FINISH DOWN TO STRUCTURAL SLAB.

F.4 REMOVE ALL CARPET, WALL BASE AND ADHESIVE DOWN TO STRUCTURAL SLAB.

OPENINGS:

O.1 WHERE EXISTING PAINTED AND FRAMED DOORS ARE TO REMAIN: REMOVE ALL LOOSE AND PEELING PAINT. REMOVE HARDWARE FOR REPLACEMENT WHERE INDICATED IN THE DOOR SCHEDULE.

O.2 REMOVE DOOR, HARDWARE AND FRAME IN ITS ENTIRETY. REMOVE SIDELIGHTS & TRANSOMS WHERE APPLICABLE.

O.3 NOT USED

O.4 REMOVE INDICATED EXTERIOR WALL FOR INSTALLATION OF NEW LINTEL & FRAME. SEE STOREFRONT SCHEDULE ON SHEET A3.1.1 AND DETAILS ON SHEET A4.2.1.

O.5 EXISTING STAINED DOORS ARE TO BE REMOVED & NUMBERED FOR REINSTALLATION OR RELOCATION. REMOVE HARDWARE FOR REPLACEMENT WHERE INDICATED.

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M.5 REMOVE MECHANICAL SHAFT; FILL HOLES IN CONCRETE SLAB ABOVE &/OR BELOW; SEE SHEET A4.1.1

M.6 REMOVE LOWER WOOD HANDRAILS. TOP RAIL TO REMAIN

M.7 EXISTING JANITOR'S CLOSET TO REMAIN INCLUDING FINISHES AND PLUMBING FIXTURES

M.8 REMOVE FIRE EXTINGUISHER EQUIPMENT

M.9 REMOVE WINDOW SILLS AS REQUIRED FOR WINDOW REPLACEMENT

M.10 NEW FLOOR PENETRATION. COORDINATE WITH MECHANICAL. PENETRATIONS NOT TO INTEFERE WITH CONCRETE WEB JOISTS- REFER TO STRUCTURAL DETAILS (SHEET A4.1.1).

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NOTE:
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DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE DEMOLITION AS REQUIRED FOR NEW CONSTRUCTION. REFER TO CONTRACT DOCUMENTS FOR EXTENT OF NEW WORK.

2. CONTRACTOR SHALL VISIT SITE TO VERIFY ACTUAL EXTENT OF DEMOLITION PRIOR TO BID. DO NOT RELY SOLELY ON THE DRAWINGS FOR DEMOLITION SCOPE. ALL DEMOLITION REQUIRED TO CARRY OUT THE WORK OF THE CONTRACT SHALL BE PART OF THE CONTRACT. NO ADDITION TO THE CONTRACT AMOUNT WILL BE ALLOWED DUE TO FAILURE TO FIELD VERIFY DEMOLITION SCOPE OR FAILURE TO EXAMINE ALL CONTRACT DOCUMENTS.

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4. PRIOR TO CUTTING EXISTING CONSTRUCTION, DETERMINE THE PRESENCE OF AND PROTECT ACTIVE TELECOMMUNICATION, DATA & ELECTRICAL LINES AND PIPING WHICH MAY BE DAMAGED BY SUCH CUTTING.

5. COORDINATE DEMOLITION WITH OWNER'S REQUIREMENTS AND OTHER CONTRACTORS RETAINED BY THE OWNER.

6. CONTROL NOISE, VIBRATION, AND ANY OTHER DISTURBING FACTORS. COORDINATE WORK HOURS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK

7. CONTRACTOR TO FOLLOW OWNER'S REQUIREMENTS FOR ENSURING SECURITY AND SAFETY OF THE BUILDING THROUGH DEMOLITION & CONSTRUCTION.

8. SCHEDULE ALL DEMOLITION AND CONSTRUCTION WORK WITH DESIGNATED OWNER'S REPRESENTATIVE TO MINIMIZE DISRUPTION OF BUILDING ACTIVITIES.

9. FOLLOW REQUIREMENTS IN SMACNA IAQ GUIDELINES FOR OCCUPIED BUILDING UNDER CONSTRUCTION 1995 CHAPTERS 2 & 3 AS WELL AS ANY OTHER APPLICABLE ENVIRONMENTAL REQUIREMENTS.

10. CONTRACTOR IS TO PROVIDE COMPLETE DUST PROOF ENCLOSURE IN ALL AREAS WHERE DEMOLITION IS TO OCCUR. COMPLY WITH ALL OSHA, NFPA AND OTHER APPLICABLE RULES AND REGULATIONS REGARDING DUST AND DEBRIS REMOVAL.

11. UTMOST CARE MUST BE TAKEN DURING DEMOLITION TO ENSURE THAT EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED. REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION ACTIVITIES.

12. PROVIDE CONSTRUCTION WASTE MANAGEMENT PLAN PRIOR TO THE START OF DEMOLITION. TARGET 50% RECYCLING OF CONSTRUCTION WASTE.

13. REMOVE AND REINSTALL ITEMS TO BE SALVAGED WHERE INDICATED AND WHERE ADVISED BY OWNER.

14. INVENTORY AND PHOTOGRAPH SALVAGED ITEMS: LIST SHALL INCLUDE DESCRIPTION OF ITEM, DIMENSIONS (OVERALL WIDTH, HEIGHT, DEPTH), COLOR, APPROX. WEIGHT AND PHOTO.

15. CONTRACTOR SHALL PROTECT ALL STRUCTURAL ELEMENTS FROM DAMAGE DURING CONSTRUCTION.

16. PROTECT EXISTING EXTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES.

17. PROTECT EXISTING INTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES, THAT ARE TO REMAIN (TYP.)

18. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

19. ALL SURFACES THAT ARE TO REMAIN ARE TO BE CLEANED W/ WATER & DETERGENT PRIOR TO INSTALLATION OF NEW FINISHES

20. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.

21. WHEN REMOVING MECHANICAL, ELECTRICAL AND PLUMBING ITEMS, REMOVE ALL ASSOCIATED FASTENERS, CABLE, RODS, ETC.

22. DO NOT PROCEED WITH NEW FLOOR OPENINGS OR WALL OPENINGS UNTIL NEW SUPPORT STRUCTURE IS IN PLACE, SEE STRUCTURAL DETAILS (SHEET A4.1.1).

DEMOLITION LEGEND

- REMOVE WALL COMPLETE
- EXISTING STUD & GYP/PLASTER CONSTRUCTION TO REMAIN, U.N.O.
- REMOVE DOOR, FRAME, AND HARDWARE COMPLETE
- EXISTING DOOR AND FRAME TO REMAIN
- EXISTING TERRAZZO STAIR / LANDING
- AREA OF WORK (BASE PROJECT)

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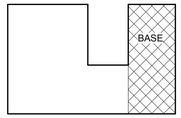
WAYNE STATE UNIVERSITY

Client
WAYNE STATE UNIVERSITY FP&M
5454 Cass Avenue
Detroit, Michigan

Key Plan:



FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
FIRST LEVEL DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

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

Seal:

Signature:

Drawing No:
AD1.1.1

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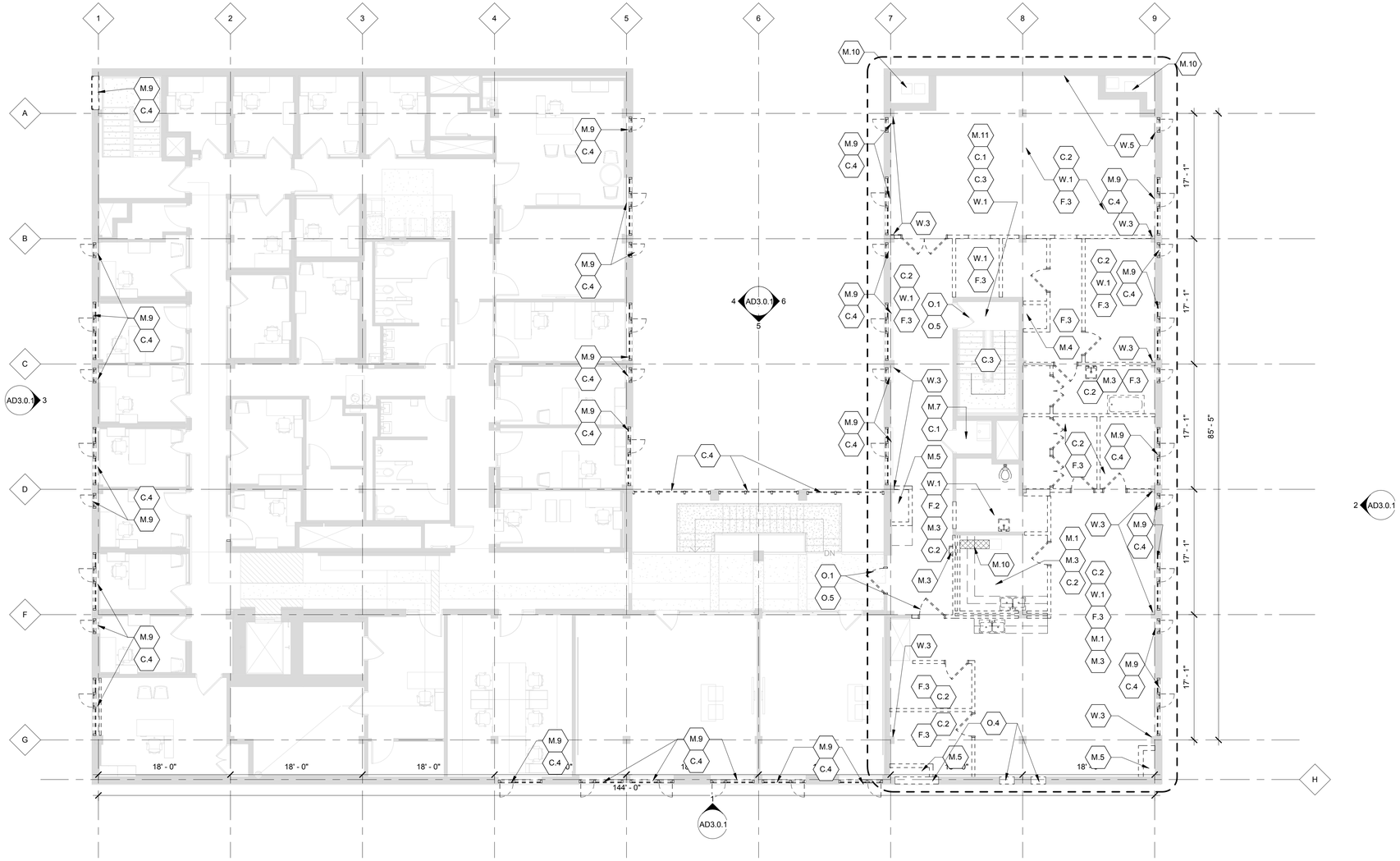

SECOND FLOOR DEMOLITION PLAN

1/8" = 1'-0"

0 4' 8' 16'

NOTE:
REFER TO HAZARDOUS MATERIAL REPORTS FROM OWNER. GC RESPONSIBLE FOR HAZARDOUS MATERIAL REMEDIATION RELATED TO WINDOW DEMOLITION. OWNER IS RESPONSIBLE FOR ALL OTHER HAZARDOUS MATERIAL REMEDIATION.

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE DEMOLITION AS REQUIRED FOR NEW CONSTRUCTION. REFER TO CONTRACT DOCUMENTS FOR EXTENT OF NEW WORK.

2. CONTRACTOR SHALL VISIT SITE TO VERIFY ACTUAL EXTENT OF DEMOLITION PRIOR TO BID. DO NOT RELY SOLELY ON THE DRAWINGS FOR DEMOLITION SCOPE. ALL DEMOLITION REQUIRED TO CARRY OUT THE WORK OF THE CONTRACT SHALL BE PART OF THE CONTRACT. NO ADDITION TO THE CONTRACT AMOUNT WILL BE ALLOWED DUE TO FAILURE TO FIELD VERIFY DEMOLITION SCOPE OR FAILURE TO EXAMINE ALL CONTRACT DOCUMENTS.

3. VERIFY AND INVESTIGATE ALL CONDITIONS IN THE FIELD PRIOR TO STARTING DEMOLITION, NOTIFY ARCHITECT OF DISCREPANCIES. LOCATE AND IDENTIFY SERVICES TO REMAIN IN OPERATION, INCLUDING ALL UTILITY LINES PENETRATING FLOOR, UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC.

4. PRIOR TO CUTTING EXISTING CONSTRUCTION, DETERMINE THE PRESENCE OF AND PROTECT ACTIVE TELECOMMUNICATION, DATA & ELECTRICAL LINES AND PIPING WHICH MAY BE DAMAGED BY SUCH CUTTING.

5. COORDINATE DEMOLITION WITH OWNER'S REQUIREMENTS AND OTHER CONTRACTORS RETAINED BY THE OWNER.

6. CONTROL NOISE, VIBRATION, AND ANY OTHER DISTURBING FACTORS. COORDINATE WORK HOURS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK

7. CONTRACTOR TO FOLLOW OWNER'S REQUIREMENTS FOR ENSURING SECURITY AND SAFETY OF THE BUILDING THROUGH DEMOLITION & CONSTRUCTION.

8. SCHEDULE ALL DEMOLITION AND CONSTRUCTION WORK WITH DESIGNATED OWNER'S REPRESENTATIVE TO MINIMIZE DISRUPTION OF BUILDING ACTIVITIES.

9. FOLLOW REQUIREMENTS IN SMACNA IAQ GUIDELINES FOR OCCUPIED BUILDING UNDER CONSTRUCTION 1995 CHAPTERS 2 & 3 AS WELL AS ANY OTHER APPLICABLE ENVIRONMENTAL REQUIREMENTS.

10. CONTRACTOR IS TO PROVIDE COMPLETE DUST PROOF ENCLOSURE IN ALL AREAS WHERE DEMOLITION IS TO OCCUR. COMPLY WITH ALL OSHA, NFPA AND OTHER APPLICABLE RULES AND REGULATIONS REGARDING DUST AND DEBRIS REMOVAL.

11. UTMOST CARE MUST BE TAKEN DURING DEMOLITION TO ENSURE THAT EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED. REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION ACTIVITIES.

12. PROVIDE CONSTRUCTION WASTE MANAGEMENT PLAN PRIOR TO THE START OF DEMOLITION. TARGET 50% RECYCLING OF CONSTRUCTION WASTE.

13. REMOVE AND REINSTALL ITEMS TO BE SALVAGED WHERE INDICATED AND WHERE ADVISED BY OWNER.

14. INVENTORY AND PHOTOGRAPH SALVAGED ITEMS: LIST SHALL INCLUDE DESCRIPTION OF ITEM, DIMENSIONS (OVERALL WIDTH, HEIGHT, DEPTH), COLOR, APPROX. WEIGHT AND PHOTO.

15. CONTRACTOR SHALL PROTECT ALL STRUCTURAL ELEMENTS FROM DAMAGE DURING CONSTRUCTION.

16. PROTECT EXISTING EXTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES.

17. PROTECT EXISTING INTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES, THAT ARE TO REMAIN (TYP.)

18. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

19. ALL SURFACES THAT ARE TO REMAIN ARE TO BE CLEANED W/ WATER & DETERGENT PRIOR TO INSTALLATION OF NEW FINISHES

20. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.

21. WHEN REMOVING MECHANICAL, ELECTRICAL AND PLUMBING ITEMS, REMOVE ALL ASSOCIATED FASTENERS, CABLE, RODS, ETC.

22. DO NOT PROCEED WITH NEW FLOOR OPENINGS OR WALL OPENINGS UNTIL NEW SUPPORT STRUCTURE IS IN PLACE, SEE STRUCTURAL DETAILS (SHEET A4.1.1).

DEMOLITION SCOPE

CEILINGS:

- C.1 WHERE CEILING IS INDICATED TO REMAIN: REMOVE ALL CEILING MOUNTED EQUIPMENT. REMOVE DUST, DIRT AND DEBRIS. REMOVE ALL LOOSE AND PEELING PAINT.
- C.2 REMOVE ALL CEILINGS, SOFFITS, AND SUPPORT SYSTEMS UNLESS OTHERWISE INDICATED: REMOVE ALL CEILING MOUNTED EQUIPMENT, RAILS, LIGHTS, GRILLES, PANELS, TILES, FRAMING AND SUSPENSION SYSTEMS. REMOVE ALL ORIGINAL PLASTER AND LATH CEILINGS TO EXPOSE CONCRETE STRUCTURE.
- C.3 PLASTER CEILINGS IN STAIRWELLS AND LANDINGS TO REMAIN. U.N.O. REMOVE DUST, DIRT AND DEBRIS. REMOVE ALL LOOSE AND PEELING PAINT FROM PLASTER OR GYP BOARD.
- C.4 REMOVE CEILING, BLOCKING AND WINDOW TREATMENT REQUIRED FOR EXTERIOR WINDOW REPLACEMENT. WINDOW TREATMENT TO BE REMOVED AND NUMBERED FOR REINSTALLATION.

WALLS:

- W.1 WHERE COLUMNS AND EXISTING PLASTER, GYP BOARD, CMU OR CONCRETE WALLS ARE TO REMAIN: REMOVE ALL LOOSE AND PEELING PAINT.
- W.2 FEATURE WALL TO REMAIN.
- W.3 REMOVE EXISTING TILE, GROUT, AND PLASTER FROM WALLS AND COLUMNS
- W.4 REMOVE EXISTING WALL PANELS AND FASTENERS.
- W.5 EXISTING BRICK WALL TO REMAIN. REMOVE ANY ITEMS AFFIXED TO WALL

FLOORS:

- F.1 EXISTING VINYL/RESILIENT OR LINOLEUM TILE OR TERRAZZO INDICATED TO REMAIN: REMOVE ALL DEBRIS, DUST AND DIRT.
- F.2 REMOVE ALL EXISTING CERAMIC OR CLAY TILE FLOORS AND BASE DOWN TO STRUCTURAL SLAB.
- F.3 REMOVE EXISTING WALL BASE, AND REMOVE FLOOR FINISH DOWN TO STRUCTURAL SLAB.
- F.4 REMOVE ALL CARPET, WALL BASE AND ADHESIVE DOWN TO STRUCTURAL SLAB.

OPENINGS:

- O.1 WHERE EXISTING PAINTED AND FRAMED DOORS ARE TO REMAIN: REMOVE ALL LOOSE AND PEELING PAINT. REMOVE HARDWARE FOR REPLACEMENT WHERE INDICATED IN THE DOOR SCHEDULE.
- O.2 REMOVE DOOR, HARDWARE AND FRAME IN ITS ENTIRETY. REMOVE SIDELIGHTS & TRANSOMS WHERE APPLICABLE.
- O.3 NOT USED
- O.4 REMOVE INDICATED EXTERIOR WALL FOR INSTALLATION OF NEW LINTEL & FRAME. SEE STOREFRONT SCHEDULE ON SHEET A3.1.1 AND DETAILS ON SHEET A4.2.1.
- O.5 EXISTING STAINED DOORS ARE TO BE REMOVED & NUMBERED FOR REINSTALLATION OR RELOCATION. REMOVE HARDWARE FOR REPLACEMENT WHERE INDICATED.
- O.6 REMOVE INDICATED PORTION OF THE PARTITION FOR INSTALLATION OF NEW LINTEL AND FRAME; SEE DOOR SCHEDULE SHEET A7.1.1 FOR DOOR SIZES AND SHEET A4.1.1 FOR NEW LINTEL.

MISC.:

- M.1 ALL CABINETRY AND MILLWORK IS TO BE REMOVED IN ITS ENTIRETY.
- M.2 REMOVE PLUMBING, KITCHEN EQUIPMENT, CABINETS AND COUNTER TOPS COMPLETE
- M.3 ALL SINKS, DRINKING FOUNTAINS, TOILETS, LAVATORIES, URINALS, TUB/SHOWERS AND WALL-MOUNTED TOILET ROOM ACCESSORIES ARE TO BE REMOVED UNLESS SPECIFICALLY NOTED TO BE SALVAGED. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
- M.4 REMOVE DUMBWAITER AND SHAFT
- M.5 REMOVE MECHANICAL SHAFT; FILL HOLES IN CONCRETE SLAB ABOVE &/OR BELOW; SEE SHEET A4.1.1
- M.6 REMOVE LOWER WOOD HANDRAILS. TOP RAIL TO REMAIN
- M.7 EXISTING JANITOR'S CLOSET TO REMAIN INCLUDING FINISHES AND PLUMBING FIXTURES
- M.8 REMOVE FIRE EXTINGUISHER EQUIPMENT
- M.9 REMOVE WINDOW SILLS AS REQUIRED FOR WINDOW REPLACEMENT
- M.10 NEW FLOOR PENETRATION. COORDINATE WITH MECHANICAL. PENETRATIONS NOT TO INTEFERE WITH CONCRETE WEB JOISTS- REFER TO STRUCTURAL DETAILS (SHEET A4.1.1).
- M.11 EXISTING STAIR SIGANGE TO BE REMOVED AND NUMBERED FOR REINSTALLATION.

DEMOLITION LEGEND

- REMOVE WALL COMPLETE
- EXISTING STUD & GYP/PLASTER CONSTRUCTION TO REMAIN. U.N.O.
- REMOVE DOOR, FRAME, AND HARDWARE COMPLETE
- EXISTING DOOR AND FRAME TO REMAIN
- EXISTING TERRAZZO STAIR / LANDING
- AREA OF WORK (BASE PROJECT)

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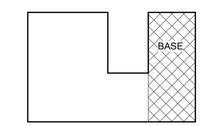

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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
SECOND LEVEL DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

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

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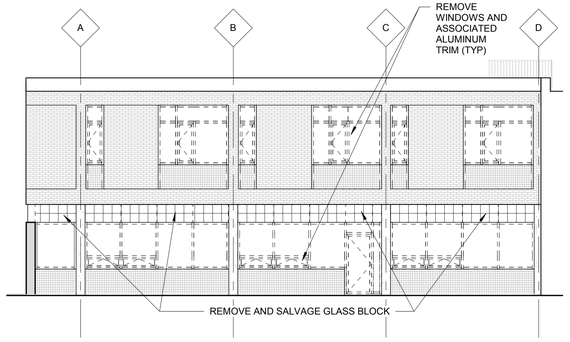
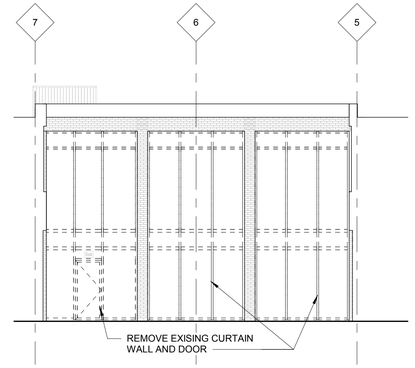
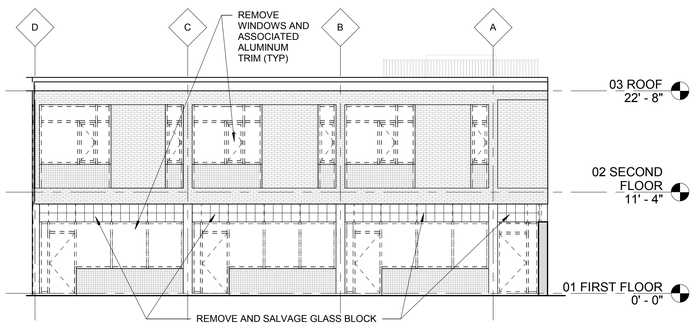


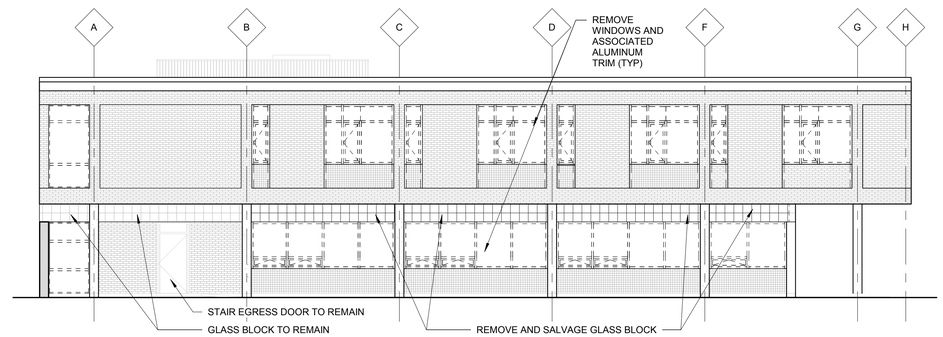
6 A4.1.1 COURTYARD WEST - DEMOLITION
1/8" = 1'-0"



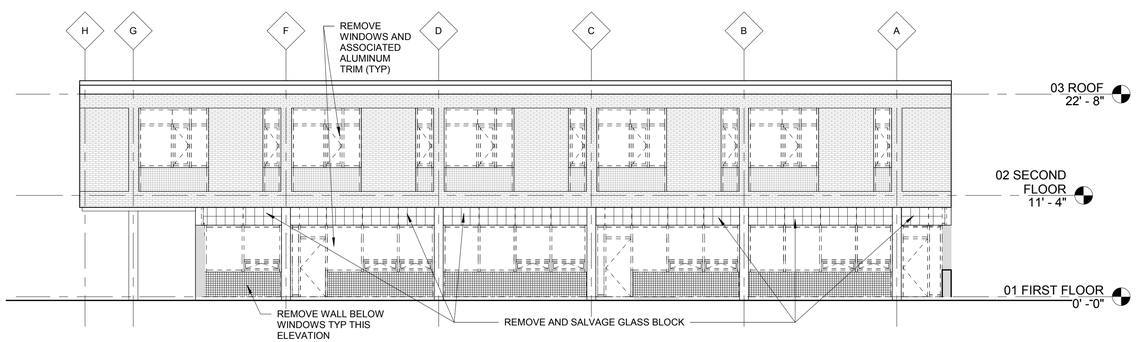
5 AD1.1.1 COURTYARD NORTH - DEMOLITION
1/8" = 1'-0"



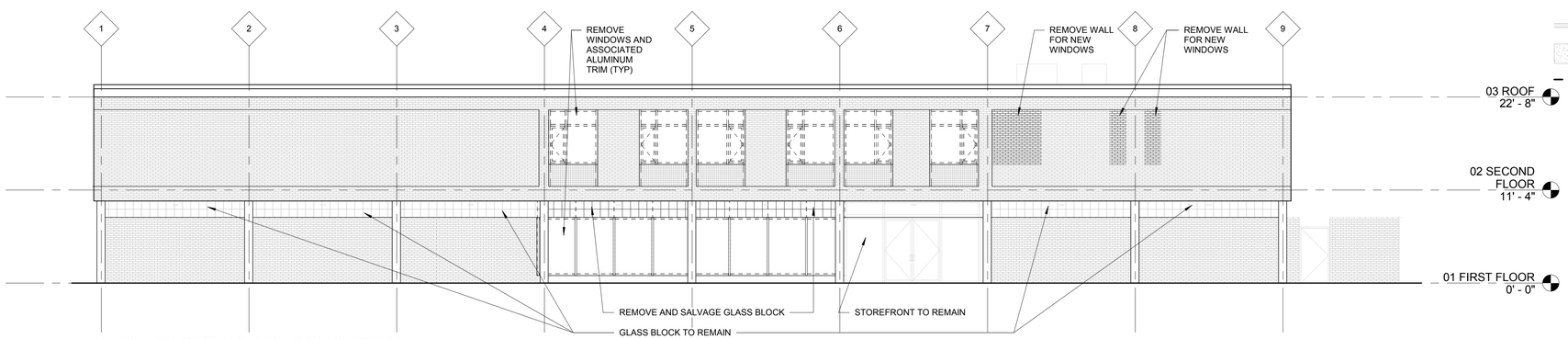
4 AD1.1.1 COURTYARD EAST - DEMOLITION
1/8" = 1'-0"



3 AD1.1.1 WEST ELEVATION - DEMOLTITION
1/8" = 1'-0"



2 AD1.1.1 EAST ELEVATION - DEMOLITION
1/8" = 1'-0"



1 AD1.1.1 SOUTH ELEVATION - DEMOLITION
1/8" = 1'-0"

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DEMOLITION LEGEND

- REMOVE WALL COMPLETE
- EXISTING STUD & GYP/PLASTER CONSTRUCTION TO REMAIN, U.N.O.
- REMOVE DOOR, FRAME, AND HARDWARE COMPLETE
- EXISTING DOOR AND FRAME TO REMAIN
- EXISTING TERRAZZO STAIR / LANDING
- AREA OF WORK (BASE PROJECT)

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Key Plan:

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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
DEMOLITION ELEVATIONS

Project Number: 2013088.22 WSU Project No: 063-301464
Drawn By: HM/JAM Approved By: RH
Scale: 1/8" = 1'-0"
Seal:

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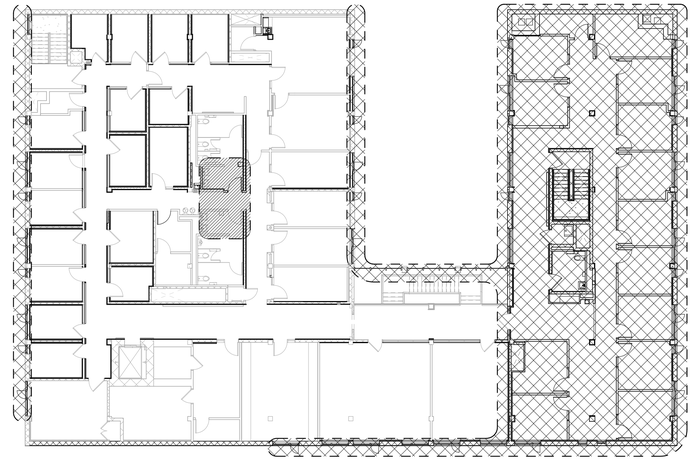
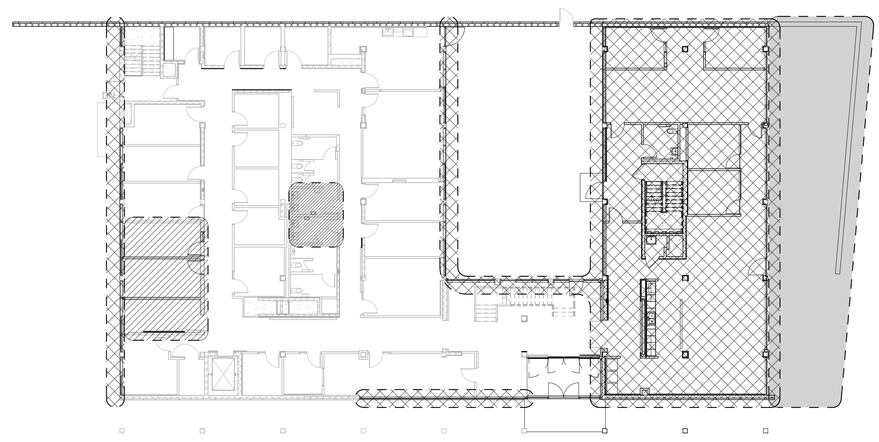
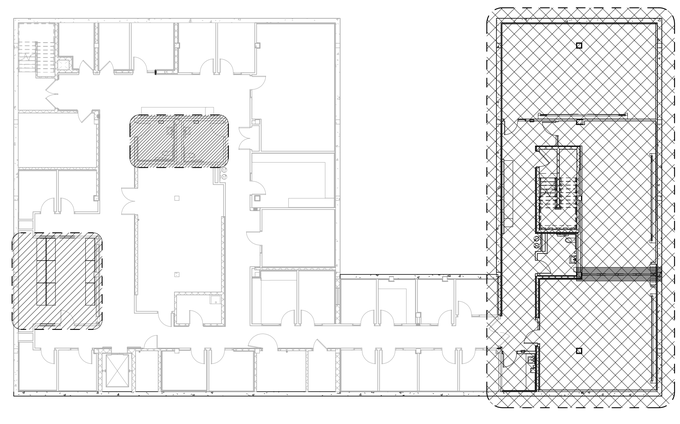


SECOND FLOOR PLAN
1/16" = 1'-0"



FIRST FLOOR PLAN
1/16" = 1'-0"



LOWER LEVEL FLOOR PLAN
1/16" = 1'-0"

KEYPLAN LEGEND

- BASE PROJECT
- ALTERNATE 1 - EAST COURTYARD
- ALTERNATE 2 - PHASE 1 OFFICE RENOVATIONS
- ALTERNATE 3 - PHASE 1 TOILET ROOM RENOVATIONS
- ALTERNATE 4 - ELECTRIC OPERABLE PARTITION UPGRADE

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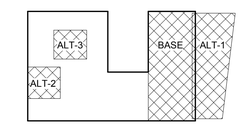

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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ALTERNATE KEY PLANS

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale: As indicated

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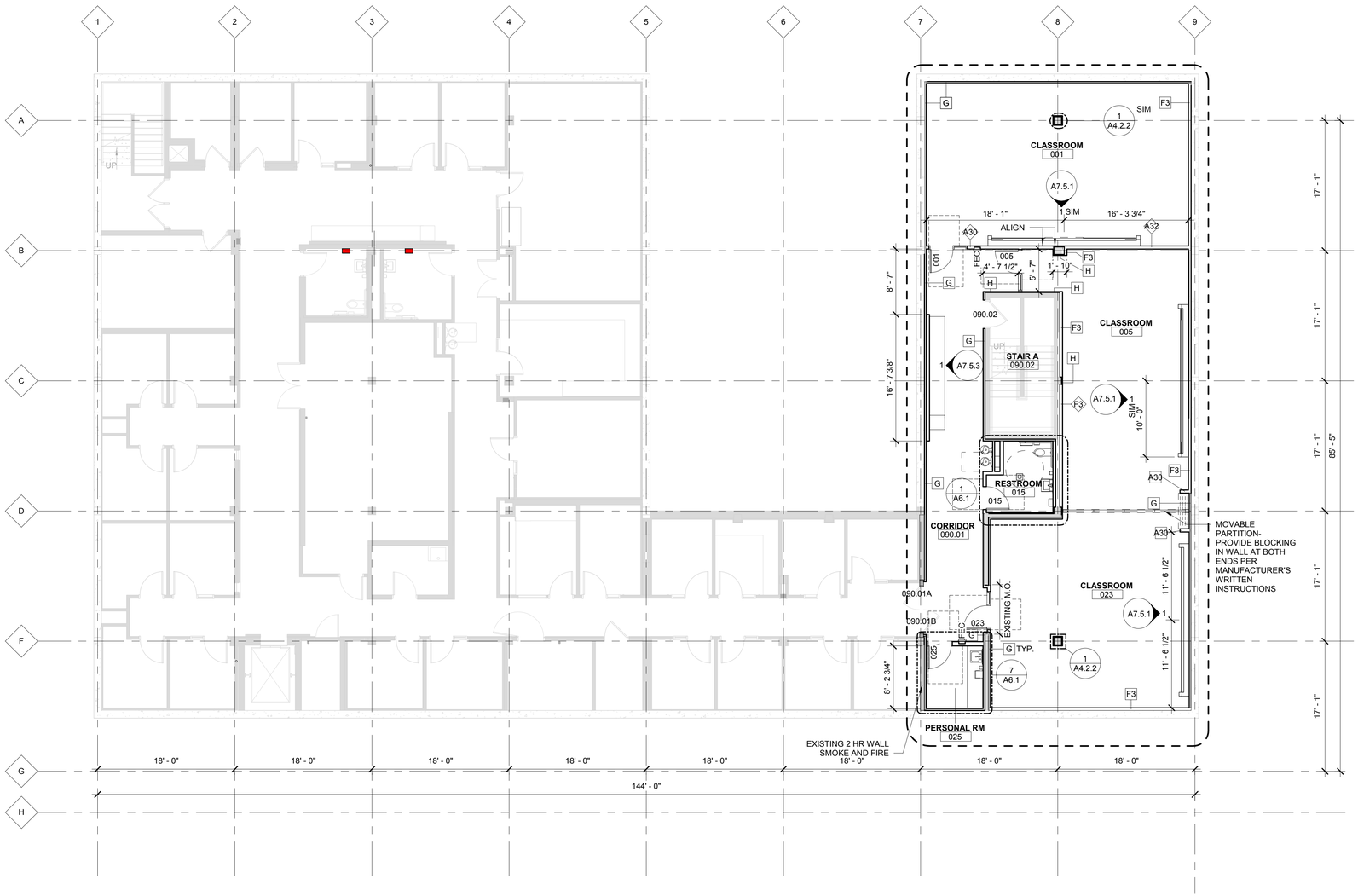

LOWER LEVEL FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'

FLOOR PLAN LEGEND

- AREA OF WORK
- FLOOR DRAIN
- FEC — FIRE EXTINGUISHER CABINET, RE: AG0.1
- EXISTING WALL
- NEW PARTITION WALL
- NEW DOOR
- EXISTING DOOR

FLOOR PLAN NOTES

1. ARCH ELEV 0'-0" = EXISTING GROUND FLOOR ELEV

2. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION

3. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, COLUMN CENTERLINE, FACE OF CONCRETE, AND OR FACE OF MASONRY UON

4. NEW CONSTRUCTION PARTITIONS THAT CONNECT W/ END OF AN EXISTING PARTITION TO BE FLUSH WITH EXISTING UON.

5. OPENING DIMS ARE FINISH SURFACE CLEAR DIMENSIONS

6. TYPICAL DOOR FRAME TO WALL DIMENSION IS 4" UON. REFER TO SHEET A7.1.1 FOR DOOR SCHEDULE.

7. NEW PARTITIONS WILL BE TYPE A30 UON.

8. REFER TO SHEET A7.4.1 FOR PARTITION TYPES

9. MAINTAIN 1-HR FIRE RATING AT EXISTING SHAFT WALLS W/ NEW OPENINGS & AT EXISTING SHAFT OPENINGS TO BE CLOSED. SEE SHT A7.4.1 FOR PARTITION TYPE 'J' - 1-HR RATED SHAFTWALL

10. REFER TO SPECIFICATIONS FOR FIRESTOPPING AND PENETRATION INFORMATION

11. REFER TO SHEET AG0.1 FOR TYPICAL ROOM ACCESSORIES MOUNTING HEIGHTS, CLEAR FLOOR SPACE AT DOORS, & CLEAR FLOOR SPACE AT PLUMBING FIXTURES

12. REFER TO SHEET A7.4.2 FOR WALL REINFORCING DETAILS - PROVIDE WALL REINFORCING FOR MILLWORK, SHELVES, WALL MOUNTED EQUIPMENT, GRAB BARS, TOILET ACCESSORIES & DOOR BUMPERS

13. PROVIDE GLASSMAT BACKER AT ALL TOILET ROOM TILE WALLS.

14. PROVIDE POSITIVE SLOPE AT ALL FLOOR DRAINS

15. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR EQUIPMENT PAD LOCATIONS & SIZES

16. CLEAN AND REPAIR EXISTING CONSTRUCTION TO REMAIN.

17. REFER TO ENLARGED TOILET ROOM PLANS ON A6.1 FOR TOILET ACCESSORY INFORMATION.. PROVIDE MOP AND BROOM HOLDER AT ALL JANITOR'S CLOSETS (SEE SPEC SECTION 102800)

18. PROVIDE LINTELS AT NEW OPENINGS IN EXISTING CMU WALLS. SEE SHEET A4.1.1 FOR DETAILS.

19. NOT USED

20. REFER TO SHEET A7.2.1 FOR MATERIAL INDEX

21. REFER TO SHEET A7.2.2 FOR ROOM FINISH SCHEDULE

22. PATCH AND REPAIR AREAS OF EXISTING SLAB WHERE PARTITIONS, DOOR FRAMES, OR DOOR THRESHOLDS HAVE BEEN REMOVED AS REQUIRED FOR WORK. TO MATCH ADJACENT SURFACE.

23. PATCH ALL HOLES IN EXISTING PARTITIONS & WALLS THAT ARE TO BE EXPOSED BY NEW WORK FROM REMOVED FURRING, BRACKETS, CABINETS, MECHANICAL OR ELECTRICAL EQUIPMENT. TO MATCH ADJACENT SURFACE.

24. EXCEPT IN STAIR WELLS AND MECH/ELEC RMS, ALL CMU WALLS WILL BE FURRED OUT WITH WALL TYPE "G" OR "H" UNLESS NOTED OTHERWISE. FURRING TYPE IS BASED ON ELECTRICAL OUTLETS.

25. EXISTING PLASTER COLUMNS TO REMAIN EXPOSED WILL BE FINISHED IN KIND FROM FLOOR TO CEILING WHERE REMOVAL OF CEILING AND OR HVAC PLENUM EXPOSES UNFINISHED PORTIONS OF COLUMN

26. PROVIDE PATCHING COMPOUND AND UNDERLAYMENT TO REPAIR FLOORS DAMAGED BY DEMOLITION AND TERRAZZO BASE REMOVAL. RESTORE FLOOR SURFACE TO A LEVEL SUBSTRATE SUITABLE FOR INSTALLATION OF NEW FLOORS.

27. REFER TO SHEET SERIES A.7.7 FOR FLOOR FINISH PLANS, FLOOR PATTERN INTENT, WALL PROTECTION LOCATIONS, FLOOR TRANSITION LOCATIONS, AND SIGNAGE LOCATIONS.

28. ALL BASE CABINETS TO BE AS NOTED WITH WOOD FILLER PANELS WHERE NEEDED.

29. REFER TO ALTERNATE KEYPLANS FOR CLARIFICATION OF ALTERNATE SCOPE7.

30. REFER TO ROOM FINISH SCHEDULE AND COLOR AND MATERIAL SCHEDULE FOR WINDOW TREATMENT INFORMATION.

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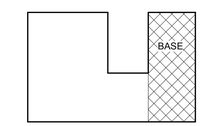
Structural Engineer: Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

WAYNE STATE UNIVERSITY

Client
WAYNE STATE UNIVERSITY FP&M
5454 Cass Avenue
Detroit, Michigan

Key Plan:



FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
LOWER LEVEL FLOOR PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale: As indicated

Seal:

Signature:

Drawing No:
A1.0.1

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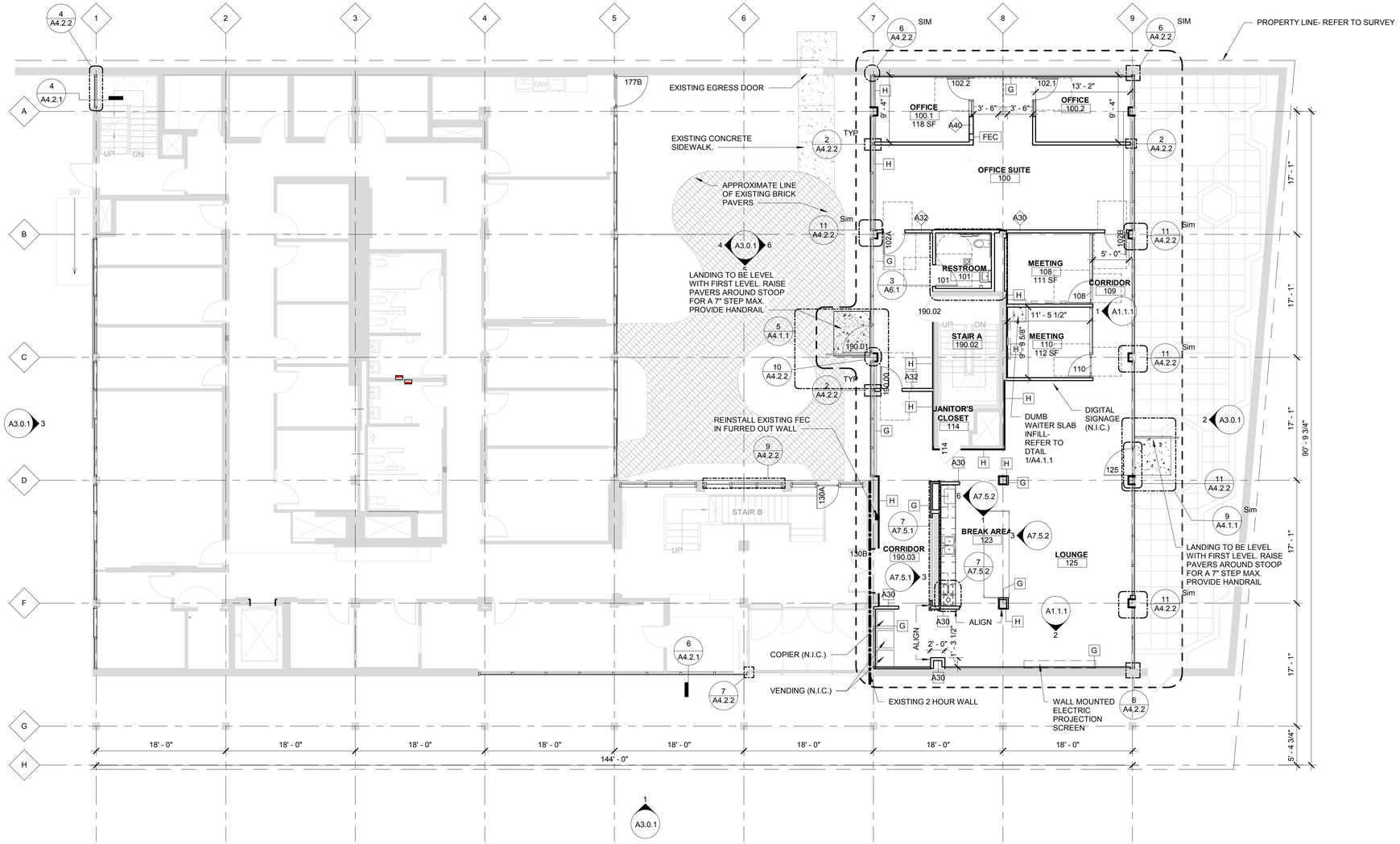
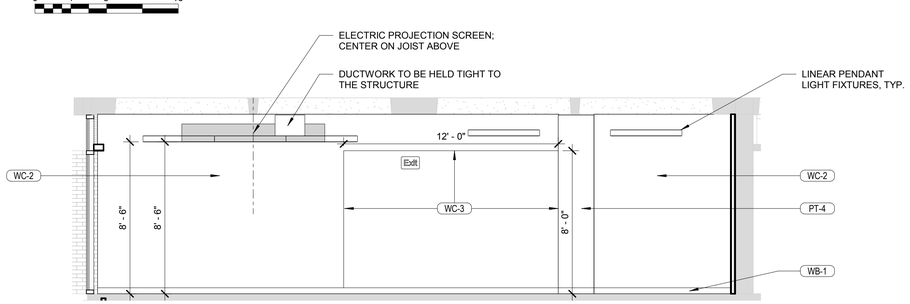


FIRST FLOOR PLAN

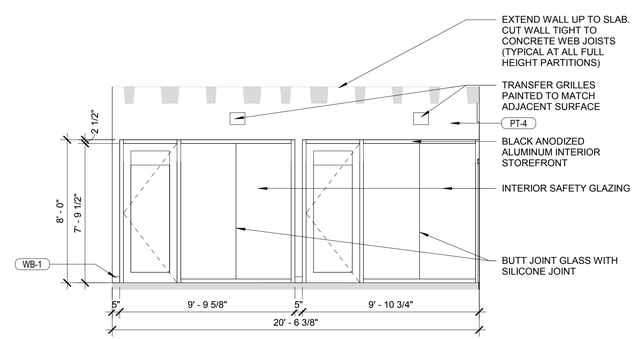
1/8" = 1'-0"

0 4' 8' 16'



2 A1.1.1 LOUNGE - SOUTH WALL

1/4" = 1'-0"



1 A1.1.1 MEETING ROOM INTERIOR ELEVATION

1/4" = 1'-0"

FLOOR PLAN LEGEND

- AREA OF WORK
- FLOOR DRAIN
- FEC — FIRE EXTINGUISHER CABINET, RE: AG0.1
- EXISTING WALL
- NEW PARTITION WALL
- NEW DOOR
- EXISTING DOOR

FLOOR PLAN NOTES

1. ARCH ELEV 0'-0" = EXISTING GROUND FLOOR ELEV

2. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION

3. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, COLUMN CENTERLINE, FACE OF CONCRETE, AND OR FACE OF MASONRY UON

4. NEW CONSTRUCTION PARTITIONS THAT CONNECT W/ END OF AN EXISTING PARTITION TO BE FLUSH WITH EXISTING UON.

5. OPENING DIMS ARE FINISH SURFACE CLEAR DIMENSIONS

6. TYPICAL DOOR FRAME TO WALL DIMENSION IS 4" UON. REFER TO SHEET A7.1.1 FOR DOOR SCHEDULE.

7. NEW PARTITIONS WILL BE TYPE A30 UON.

8. REFER TO SHEET A7.4.1 FOR PARTITION TYPES

9. MAINTAIN 1-HR FIRE RATING AT EXISTING SHAFT WALLS W/ NEW OPENINGS & AT EXISTING SHAFT OPENINGS TO BE CLOSED. SEE SHT A7.4.1 FOR PARTITION TYPE 'J' - 1-HR RATED SHAFTWALL

10. REFER TO SPECIFICATIONS FOR FIRESTOPPING AND PENETRATION INFORMATION

11. REFER TO SHEET AG0.1 FOR TYPICAL ROOM ACCESSORIES MOUNTING HEIGHTS, CLEAR FLOOR SPACE AT DOORS, & CLEAR FLOOR SPACE AT PLUMBING FIXTURES

12. REFER TO SHEET A7.4.2 FOR WALL REINFORCING DETAILS - PROVIDE WALL REINFORCING FOR MILLWORK, SHELVES, WALL MOUNTED EQUIPMENT, GRAB BARS, TOILET ACCESSORIES & DOOR BUMPERS

13. PROVIDE GLASSMAT BACKER AT ALL TOILET ROOM TILE WALLS.

14. PROVIDE POSITIVE SLOPE AT ALL FLOOR DRAINS

15. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR EQUIPMENT PAD LOCATIONS & SIZES

16. CLEAN AND REPAIR EXISTING CONSTRUCTION TO REMAIN.

17. REFER TO ENLARGED TOILET ROOM PLANS ON A6.1 FOR TOILET ACCESSORY INFORMATION.. PROVIDE MOP AND BROOM HOLDER AT ALL JANITOR'S CLOSETS (SEE SPEC SECTION 102800)

18. PROVIDE LINTELS AT NEW OPENINGS IN EXISTING CMU WALLS. SEE SHEET A4.1.1 FOR DETAILS.

19. NOT USED

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21. REFER TO SHEET A7.2.2 FOR ROOM FINISH SCHEDULE

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27. REFER TO SHEET SERIES A.7.7 FOR FLOOR FINISH PLANS, FLOOR PATTERN INTENT, WALL PROTECTION LOCATIONS, FLOOR TRANSITION LOCATIONS, AND SIGNAGE LOCATIONS.

28. ALL BASE CABINETS TO BE AS NOTED WITH WOOD FILLER PANELS WHERE NEEDED.

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30. REFER TO ROOM FINISH SCHEDULE AND COLOR AND MATERIAL SCHEDULE FOR WINDOW TREATMENT INFORMATION.

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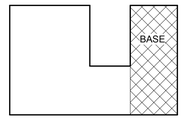

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
FIRST LEVEL FLOOR PLAN

Project Number: 2013088.22 — WSU Project No: 063-301464

Drawn By: HM/JAM — Approved By: RH

Scale: As indicated

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Signature:

Drawing No:

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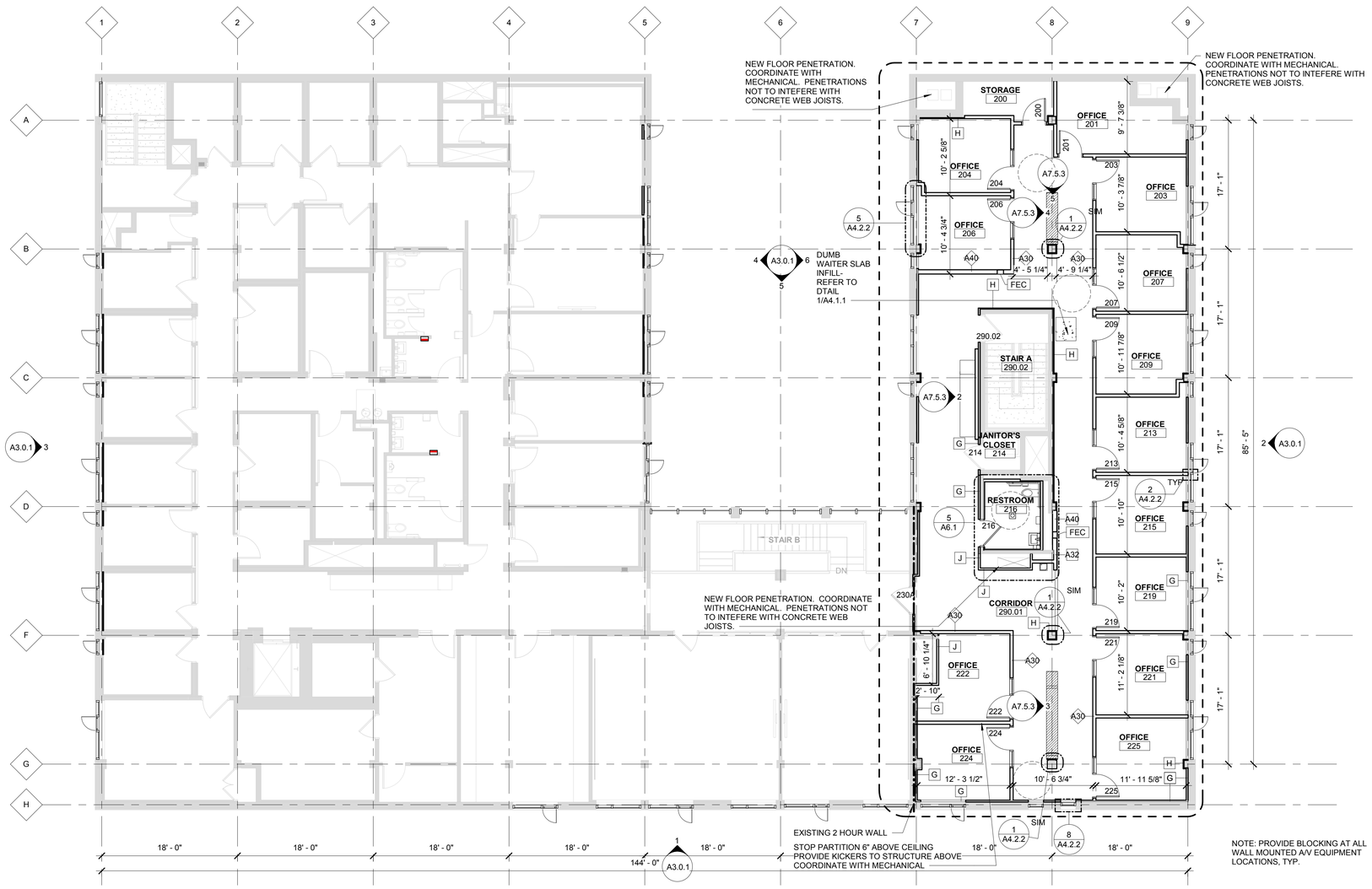

SECOND FLOOR PLAN

1/8" = 1'-0"

0 4' 8' 16'

FLOOR PLAN LEGEND

- AREA OF WORK
- FLOOR DRAIN
- FEC — FIRE EXTINGUISHER CABINET, RE: AG0.1
- EXISTING WALL
- NEW PARTITION WALL
- NEW DOOR
- EXISTING DOOR

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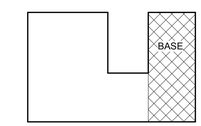

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
SECOND LEVEL FLOOR PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

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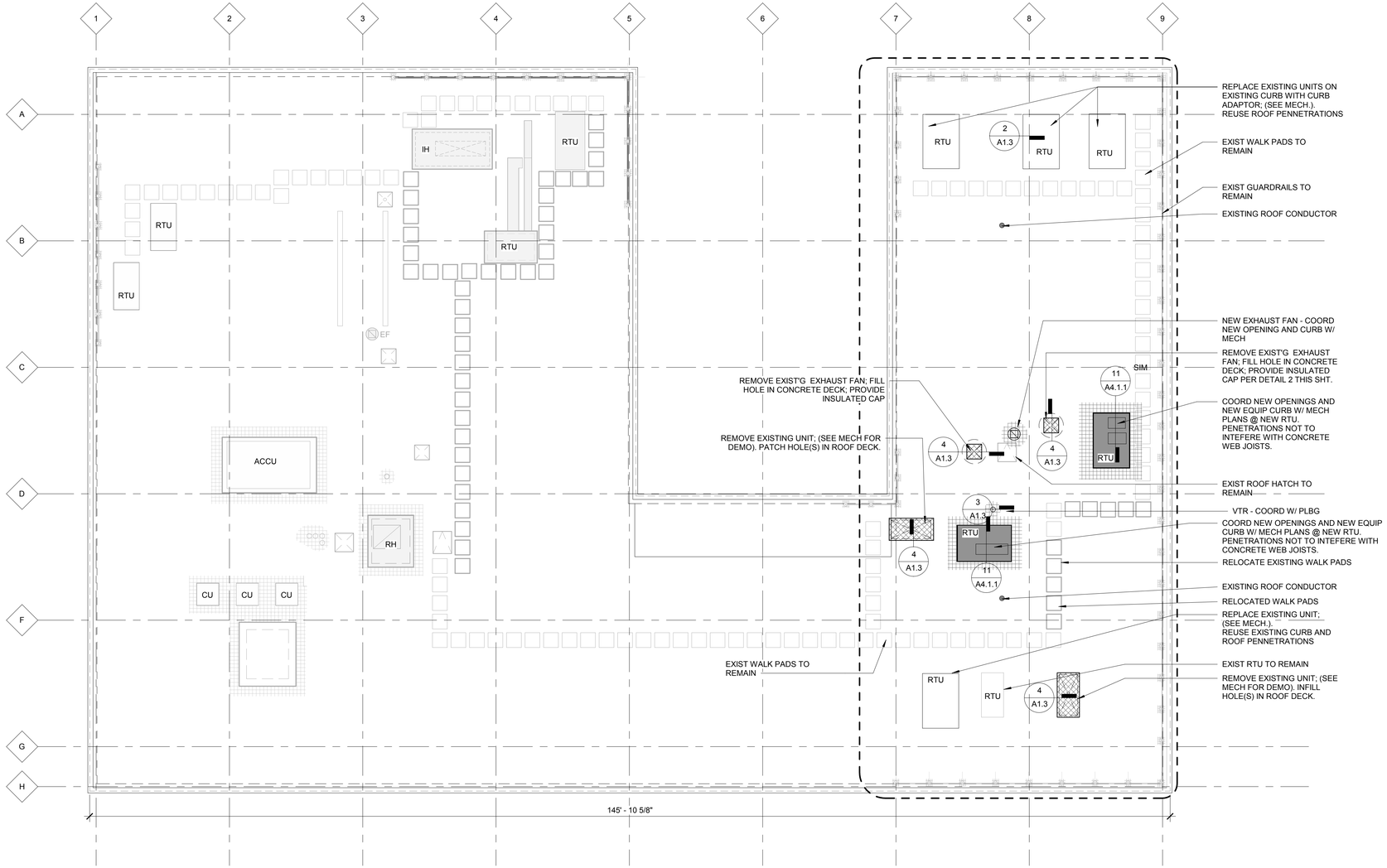
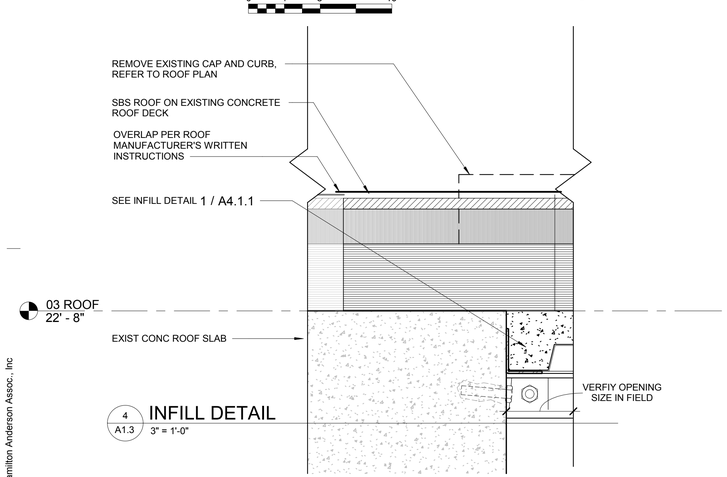
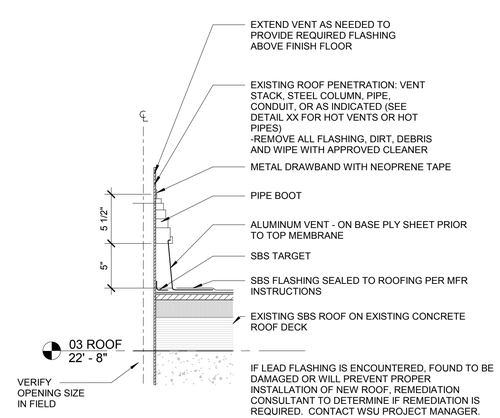


ROOF PLAN

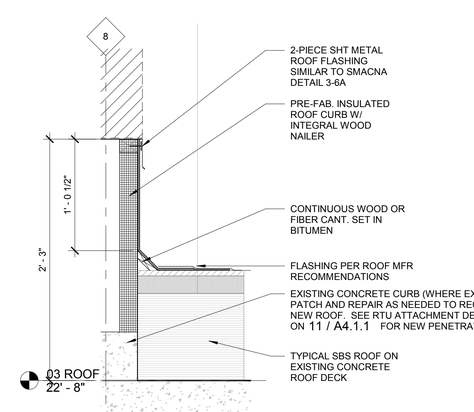
1/8" = 1'-0"
0 4' 8' 16'



4 / A1.3 INFILL DETAIL
3" = 1'-0"



3 / A1.3 ROUND ROOF PENETRATION TYPICAL
1 1/2" = 1'-0"



2 / A1.3 ROOF CURB FLASHING TYP
1 1/2" = 1'-0"

NOTE:
REFER TO HAZARDOUS MATERIAL REPORTS FROM OWNER. GC RESPONSIBLE FOR HAZARDOUS MATERIAL REMEDIATION RELATED TO WINDOW DEMOLITION. OWNER IS RESPONSIBLE FOR ALL OTHER HAZARDOUS MATERIAL REMEDIATION.

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE DEMOLITION AS REQUIRED FOR NEW CONSTRUCTION. REFER TO CONTRACT DOCUMENTS FOR EXTENT OF NEW WORK.

2. CONTRACTOR SHALL VISIT SITE TO VERIFY ACTUAL EXTENT OF DEMOLITION PRIOR TO BID. DO NOT RELY SOLELY ON THE DRAWINGS FOR DEMOLITION SCOPE. ALL DEMOLITION REQUIRED TO CARRY OUT THE WORK OF THE CONTRACT SHALL BE PART OF THE CONTRACT. NO ADDITION TO THE CONTRACT AMOUNT WILL BE ALLOWED DUE TO FAILURE TO FIELD VERIFY DEMOLITION SCOPE OR FAILURE TO EXAMINE ALL CONTRACT DOCUMENTS.

3. VERIFY AND INVESTIGATE ALL CONDITIONS IN THE FIELD PRIOR TO STARTING DEMOLITION. NOTIFY ARCHITECT OF DISCREPANCIES. LOCATE AND IDENTIFY SERVICES TO REMAIN IN OPERATION, INCLUDING ALL UTILITY LINES PENETRATING FLOOR, UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC.

4. PRIOR TO CUTTING EXISTING CONSTRUCTION, DETERMINE THE PRESENCE OF AND PROTECT ACTIVE TELECOMMUNICATION, DATA & ELECTRICAL LINES AND PIPING WHICH MAY BE DAMAGED BY SUCH CUTTING.

5. COORDINATE DEMOLITION WITH OWNER'S REQUIREMENTS AND OTHER CONTRACTORS RETAINED BY THE OWNER.

6. CONTROL NOISE, VIBRATION, AND ANY OTHER DISTURBING FACTORS. COORDINATE WORK HOURS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK

7. CONTRACTOR TO FOLLOW OWNER'S REQUIREMENTS FOR ENSURING SECURITY AND SAFETY OF THE BUILDING THROUGH DEMOLITION & CONSTRUCTION.

8. SCHEDULE ALL DEMOLITION AND CONSTRUCTION WORK WITH DESIGNATED OWNER'S REPRESENTATIVE TO MINIMIZE DISRUPTION OF BUILDING ACTIVITIES.

9. FOLLOW REQUIREMENTS IN SMACNA IAQ GUIDELINES FOR OCCUPIED BUILDING UNDER CONSTRUCTION 1995 CHAPTERS 2 & 3 AS WELL AS ANY OTHER APPLICABLE ENVIRONMENTAL REQUIREMENTS.

10. CONTRACTOR IS TO PROVIDE COMPLETE DUST PROOF ENCLOSURE IN ALL AREAS WHERE DEMOLITION IS TO OCCUR. COMPLY WITH ALL OSHA, NFPA AND OTHER APPLICABLE RULES AND REGULATIONS REGARDING DUST AND DEBRIS REMOVAL.

11. UTMOST CARE MUST BE TAKEN DURING DEMOLITION TO ENSURE THAT EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED. REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION ACTIVITIES.

12. PROVIDE CONSTRUCTION WASTE MANAGEMENT PLAN PRIOR TO THE START OF DEMOLITION. TARGET 50% RECYCLING OF CONSTRUCTION WASTE.

13. REMOVE AND REINSTALL ITEMS TO BE SALVAGED WHERE INDICATED AND WHERE ADVISED BY OWNER.

14. INVENTORY AND PHOTOGRAPH SALVAGED ITEMS: LIST SHALL INCLUDE DESCRIPTION OF ITEM, DIMENSIONS (OVERALL WIDTH, HEIGHT, DEPTH), COLOR, APPROX. WEIGHT AND PHOTO.

15. CONTRACTOR SHALL PROTECT ALL STRUCTURAL ELEMENTS FROM DAMAGE DURING CONSTRUCTION.

16. PROTECT EXISTING EXTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES.

17. PROTECT EXISTING INTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES, THAT ARE TO REMAIN (TYP.)

18. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

19. ALL SURFACES THAT ARE TO REMAIN ARE TO BE CLEANED W/ WATER & DETERGENT PRIOR TO INSTALLATION OF NEW FINISHES

20. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.

21. WHEN REMOVING MECHANICAL, ELECTRICAL AND PLUMBING ITEMS, REMOVE ALL ASSOCIATED FASTENERS, CABLE, RODS, ETC.

22. DO NOT PROCEED WITH NEW FLOOR OPENINGS OR WALL OPENINGS UNTIL NEW SUPPORT STRUCTURE IS IN PLACE, SEE STRUCTURAL DETAILS (SHEET A4.1.1).

ROOF PLAN LEGEND

- RELOCATED WALK PADS/ REPLACE AS NEEDED
- EXISTING WALK PADS TO REMAIN
- NEW OR RELOCATED EQUIPMENT- SEE MECH
- NEW CAP AT EXISTING ROOF CURB
- EXISTING EXHAUST FAN / VENT CURB OPENING
- EXISTING ROOF HATCH
- EXHAUST FAN
- VENT THRU ROOF
- DISTURBED ROOF AREAS AT NEW CURBS OR POSTS (KEEP MINIMAL) TO BE FLASHED AND PATCHED INTO EXISTING TO MAKE CONTINUOUS

ROOF PLAN NOTES

1. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION

2. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR ADDITIONAL INFORMATION INCLUDING DEMOLITION, RE-LOCATED EQUIPMENT, EQUIPMENT PAD LOCATIONS & SIZES

3. AT NEW ROOF PENETRATIONS: REMOVE MIN AREA OF EXIST ROOFING SYSTEM DOWN TO STRUCTURE AS REQUIRED FOR NEW OPG. INFILL REMOVED AREA OF INSULATION W/ MATCHING TYPE & THICKNESS. REFER TO DETAIL 3/A1.3 FOR VENT PENETRATION

4. INSTALL INSULATED WEATHERTIGHT CAP W/ MIN R19 THERMAL PERFORMANCE AT ALL ABANDONED CURBS. REFER TO DETAIL 6/A1.3

5. PROVIDE NEW INSULATING AND ROOFING MATERIAL COMPATIBLE WITH EXISTING ROOFING SYSTEM AS REQUIRED TO MAINTAIN PROPER SLOPE. EXTEND NEW ROOFING SYSTEM ON TO EXISTING AS REQUIRED TO MAINTAIN SEAL, PROPER DRAINAGE, AND WARRANTY.

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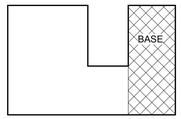

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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ROOF DEMOLITION AND NEW WORK PLAN & DETAILS

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

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Signature:

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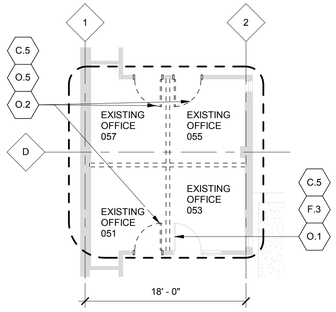
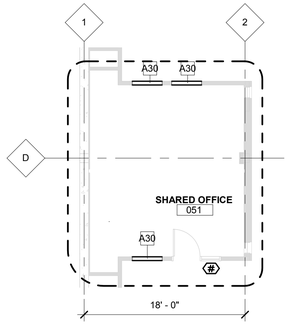


LOWER LEVEL DEMOLITION PLAN ALTERNATE 2

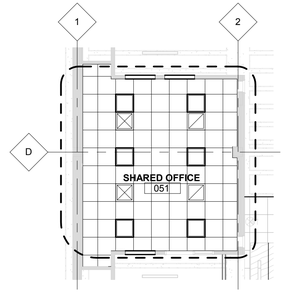
1/8" = 1'-0"



LOWER LEVEL FLOOR PLAN ALTERNATE 2

1/8" = 1'-0"

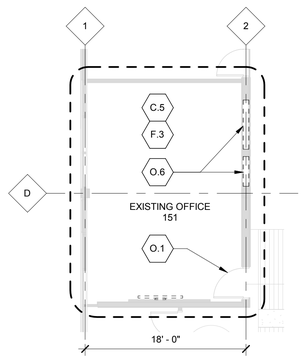
REFER TO ROOM FINISH SCHEDULE ON SHEET A7.2.1 FOR FINISH INFORMATION



LOWER LEVEL REFLECTED CEILING PLAN ALTERNATE 2

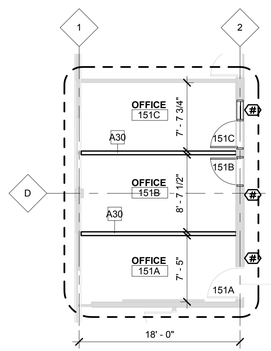
1/8" = 1'-0"

REFER TO ROOM FINISH SCHEDULE ON SHEET A7.2.1 FOR FINISH INFORMATION



FIRST LEVEL FLOOR DEMOLITION PLAN ALTERNATE 2

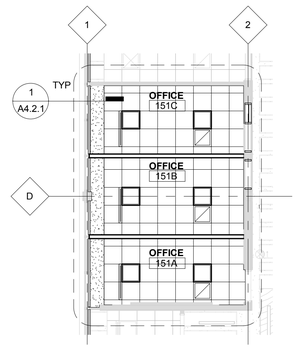
1/8" = 1'-0"



FIRST LEVEL FLOOR PLAN ALTERNATE 2

1/8" = 1'-0"

REFER TO ROOM FINISH SCHEDULE ON SHEET A7.2.1 FOR FINISH INFORMATION



FIRST LEVEL FLOOR REFLECTED CEILING PLAN ALTERNATE 2

1/8" = 1'-0"

REFER TO ROOM FINISH SCHEDULE ON SHEET A7.2.1 FOR FINISH INFORMATION

0 4' 8' 16'

DEMOLITION LEGEND

- REMOVE WALL COMPLETE
- EXISTING STUD & GYP/PLASTER CONSTRUCTION TO REMAIN, U.N.O.
- REMOVE DOOR, FRAME, AND HARDWARE COMPLETE
- EXISTING DOOR AND FRAME TO REMAIN
- EXISTING TERRAZZO STAIR / LANDING
- AREA OF WORK (BASE PROJECT)

DEMOLITION SCOPE

CEILINGS:

C.5 — REMOVE ALL CEILINGS, SOFFITS, AND SUPPORT SYSTEMS UNLESS OTHERWISE INDICATED: REMOVE ALL CEILING MOUNTED EQUIPMENT, RAILS, LIGHTS, GRILLES, PANELS, TILES, FRAMING AND SUSPENSION SYSTEMS. SALVAGE EXISTING CEILING AND WINDOW TREATMENT FOR REINSTALLATION AS APPLICABLE.

FLOORS:

F.3 — REMOVE EXISTING WALL BASE, AND REMOVE FLOOR FINISH DOWN TO STRUCTURAL SLAB. PREPARE FLOOR FOR NEW FINISH.

OPENINGS:

O.1 — WHERE EXISTING PAINTED AND FRAMED DOORS ARE TO REMAIN: REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPING. CLEAN WITH WATER AND DETERGENT. REMOVE HARDWARE FOR REPLACEMENT WHERE INDICATED IN THE DOOR SCHEDULE.

O.2 — REMOVE DOOR, HARDWARE AND FRAME IN ITS ENTIRETY. REMOVE SIDELIGHTS & TRANSOMS WHERE APPLICABLE.

O.5 — EXISTING STAINED DOORS ARE TO BE REMOVED & NUMBERED FOR REINSTALLATION OR RELOCATION. REMOVE HARDWARE FOR REPLACEMENT WHERE INDICATED; PREP AND REFINISH DOOR.

O.6 — REMOVE INDICATED PORTION OF THE PARTITION FOR INSTALLATION OF NEW LINTEL AND FRAME; SEE DOOR SCHEDULE SHEET A7.1.0 FOR DOOR SIZES AND SHEET A7.4.2 FOR NEW LINTEL.

RCP LEGEND

- 2X2 ACOUSTICAL CEILING
- GYP. BOARD- PAINTED
- DECORATIVE CEILING PANEL
- 2X2 LAY-IN CEILING LIGHT, RE: ELEC
- RECESSED CAN LIGHT, RE: ELEC
- LINEAR PENDANT / RECESSED LIGHT, RE: ELEC
- DECORATIVE LINEAR PENDANT, RE: ELEC
- DECORATIVE PENDANT MOUNTED, RE: ELEC
- RECESSED CAN LIGHT, RE: ELEC
- SD — CEILING MOUNTED SMOKE DETECTOR, RE: ELEC
- EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE)
- EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE)
- EXIT LIGHTING (SHADED AREA INDICATES FACE)
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- EXHAUST REGISTER
- ACCESS PANEL
- WINDOW SHADE
- AREA OF WORK
- PROJECTOR- COORDINATE MOUNTING HEIGHT WITH TOP OF SCREEN

FLOOR PLAN LEGEND

- AREA OF WORK
- FLOOR DRAIN
- FEC — FIRE EXTINGUISHER CABINET, RE: AG0.1
- EXISTING WALL
- NEW PARTITION WALL
- NEW DOOR
- EXISTING DOOR

DOOR AND OPENING LEGEND

AL	ALUMINUM	PTD	PAINTED	MC	MOLDED COMPOSITE
EX	EXISTING	SPCL	SPECIAL	GL-1	CLEAR TEMPERED FLOAT GLASS
FF	FACTORY FINISH	SS	STAINLESS STEEL	GL-2	CLEAR FLOAT GLASS
GALV	GALVANIZED	ST	STAINED	GL-3	CLEAR FIRE RATED GLASS
GL	GLASS	STL	STEEL		
HM	HOLLOW METAL	THK	DOOR THICKNESS		
PREF	PREFINISHED	WD	WOOD		

REMARKS

1. REUSE SALVAGED DOOR FROM LOWER LEVEL - FILL HOLES IN DOORS WITH WOOD TO MATCH. REFINISH WOOD DOOR, REPAINT GRILLES; INSTALL NEW HARDWARE AND KICKPLATE IF ANY; PROVIDE DOOR FRAME AS SCHEDULED

DOOR AND INTERIOR OPENING SCHEDULE_ALTERNATE

NUMBER	FIRE RATING	SIZE		DOOR			FRAME			GLASS TYPE	HARDWARE	DETAILS		REMARKS
		WIDTH	HEIGHT	TYPE	MATERIAL	FINISH	ELEVATION	MATERIAL	FINISH			HEAD	JAMB	
01 FIRST FLOOR														
151B		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD		23	5A	5A	1
151C		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD		23	4 SIM	4	1

ROOM FINISH SCHEDULE ALTERNATE 2

SEE SHEET A7.2.1 FOR GENERAL FINISH NOTES

ROOM NUMBER	ROOM NAME	FLOORS		WALLS				CEILINGS		REMARKS
		FLOOR	BASE	NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH	
00 LOWER LEVEL										
051	SHARED OFFICE	CPT-1	WB-1	PT-1	PT-4	PT-1	PT-1	AC-1	PRE FIN	10
01 FIRST FLOOR										
151A	OFFICE	CPT-1	WB-1	PT-4	PT-1	PT-1	PT-1	AC-1/ GYP	PRE FIN/ PT-3	3,10
151B	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-4	PT-1	AC-1/ GYP	PRE FIN/ PT-3	3,10
151C	OFFICE	CPT-1	WB-1	PT-4	PT-1	PT-1	PT-1	AC-1/ GYP	PRE FIN/ PT-3	3,10

NOTE:
REFER TO HAZARDOUS MATERIAL REPORTS FROM OWNER. GC RESPONSIBLE FOR HAZARDOUS MATERIAL REMEDIATION RELATED TO WINDOW DEMOLITION. OWNER IS RESPONSIBLE FOR ALL OTHER HAZARDOUS MATERIAL REMEDIATION.

DEMOLITION GENERAL NOTES

1. CONTRACTOR SHALL PROVIDE DEMOLITION AS REQUIRED FOR NEW CONSTRUCTION. REFER TO CONTRACT DOCUMENTS FOR EXTENT OF NEW WORK.

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3. VERIFY AND INVESTIGATE ALL CONDITIONS IN THE FIELD PRIOR TO STARTING DEMOLITION, NOTIFY ARCHITECT OF DISCREPANCIES. LOCATE AND IDENTIFY SERVICES TO REMAIN IN OPERATION, INCLUDING ALL UTILITY LINES PENETRATING FLOOR, UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC.

4. PRIOR TO CUTTING EXISTING CONSTRUCTION, DETERMINE THE PRESENCE OF AND PROTECT ACTIVE TELECOMMUNICATION, DATA & ELECTRICAL LINES AND PIPING WHICH MAY BE DAMAGED BY SUCH CUTTING.

5. COORDINATE DEMOLITION WITH OWNER'S REQUIREMENTS AND OTHER CONTRACTORS RETAINED BY THE OWNER.

6. CONTROL NOISE, VIBRATION, AND ANY OTHER DISTURBING FACTORS. COORDINATE WORK HOURS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK

7. CONTRACTOR TO FOLLOW OWNER'S REQUIREMENTS FOR ENSURING SECURITY AND SAFETY OF THE BUILDING THROUGH DEMOLITION & CONSTRUCTION.

8. SCHEDULE ALL DEMOLITION AND CONSTRUCTION WORK WITH DESIGNATED OWNER'S REPRESENTATIVE TO MINIMIZE DISRUPTION OF BUILDING ACTIVITIES.

9. FOLLOW REQUIREMENTS IN SMACNA IAQ GUIDELINES FOR OCCUPIED BUILDING UNDER CONSTRUCTION 1995 CHAPTERS 2 & 3 AS WELL AS ANY OTHER APPLICABLE ENVIRONMENTAL REQUIREMENTS.

10. CONTRACTOR IS TO PROVIDE COMPLETE DUST PROOF ENCLOSURE IN ALL AREAS WHERE DEMOLITION IS TO OCCUR. COMPLY WITH ALL OSHA, NFPA AND OTHER APPLICABLE RULES AND REGULATIONS REGARDING DUST AND DEBRIS REMOVAL.

11. UTMOST CARE MUST BE TAKEN DURING DEMOLITION TO ENSURE THAT EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED. REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION ACTIVITIES.

12. PROVIDE CONSTRUCTION WASTE MANAGEMENT PLAN PRIOR TO THE START OF DEMOLITION. TARGET 50% RECYCLING OF CONSTRUCTION WASTE.

13. REMOVE AND REINSTALL ITEMS TO BE SALVAGED WHERE INDICATED AND WHERE ADVISED BY OWNER.

14. INVENTORY AND PHOTOGRAPH SALVAGED ITEMS: LIST SHALL INCLUDE DESCRIPTION OF ITEM, DIMENSIONS (OVERALL WIDTH, HEIGHT, DEPTH), COLOR, APPROX. WEIGHT AND PHOTO.

15. CONTRACTOR SHALL PROTECT ALL STRUCTURAL ELEMENTS FROM DAMAGE DURING CONSTRUCTION.

16. PROTECT EXISTING EXTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES.

17. PROTECT EXISTING INTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES, THAT ARE TO REMAIN (TYP.)

18. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

19. ALL SURFACES THAT ARE TO REMAIN ARE TO BE CLEANED W/ WATER & DETERGENT PRIOR TO INSTALLATION OF NEW FINISHES

20. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.

21. WHEN REMOVING MECHANICAL, ELECTRICAL AND PLUMBING ITEMS, REMOVE ALL ASSOCIATED FASTENERS, CABLE, RODS, ETC.

22. DO NOT PROCEED WITH NEW FLOOR OPENINGS OR WALL OPENINGS UNTIL NEW SUPPORT STRUCTURE IS IN PLACE, SEE STRUCTURAL DETAILS (SHEET A4.1.1).

FINISH REMARK NOTES

1. NEW FLOORING IN STAIRWELLS. EXISTING TERRAZZO TREADS, RISERS, AND INTERMEDIATE LANDINGS TO REMAIN.

2. REFER TO FINISH PLANS, ELEVATIONS AND 3D VIEWS FOR ACCENT PAINT AND FEATURE WALL LOCATIONS.

3. WINDOW TREATMENT TO BE WT-1.

4. REINSTALL SALVAGED WINDOW TREATMENTS.

5. REFER TO CASEWORK NOTES FOR CASEWORK & COUNTERTOP INFORMATION.

6. MARKER BOARDS GL-10 AS INDICATED ON ELEVATIONS.

7. EXISTING BRICK WALLS TO REMAIN, UNLESS NOTED OTHERWISE.

8. FULL HEIGHT TILE ON WET WALLS.

9. EXPOSED PIPING PAINTED PT-3.

10. UTILIZE ACCESSIBLE CEILING AS APPLICABLE

11. ALTERNATE #3

12. PROVIDE ACOUSTICAL BATT INSULATION ABOVE CEILING

SIGNAGE SYMBOLS

— NUMBER; TYPES 1, 1A, 2, 2A, 3, 3A, 3B

SEE SIGNAGE SCHEDULE AND TYPES ON SHEET A7.8.1

FLOOR PLAN NOTES

1. ARCH ELEV 0'-0" = EXISTING GROUND FLOOR ELEV

2. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION

3. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, COLUMN CENTERLINE, FACE OF CONCRETE, AND OR FACE OF MASONRY UON

4. NEW CONSTRUCTION PARTITIONS THAT CONNECT W/ END OF AN EXISTING PARTITION TO BE FLUSH WITH EXISTING UON.

5. OPENING DIMS ARE FINISH SURFACE CLEAR DIMENSIONS

6. TYPICAL DOOR FRAME TO WALL DIMENSION IS 4" UON. REFER TO SHEET A7.1.1 FOR DOOR SCHEDULE.

7. NEW PARTITIONS WILL BE TYPE A30 UON.

8. REFER TO SHEET A7.4.1 FOR PARTITION TYPES

9. MAINTAIN 1-HR FIRE RATING AT EXISTING SHAFT WALLS W/ NEW OPENINGS & AT EXISTING SHAFT OPENINGS TO BE CLOSED. SEE SHT A7.4.1 FOR PARTITION TYPE 'J' - 1-HR RATED SHAFTWALL

10. REFER TO SPECIFICATIONS FOR FIRESTOPPING AND PENETRATION INFORMATION

11. REFER TO SHEET AG0.1 FOR TYPICAL ROOM ACCESSORIES MOUNTING HEIGHTS, CLEAR FLOOR SPACE AT DOORS, & CLEAR FLOOR SPACE AT PLUMBING FIXTURES

12. REFER TO SHEET A7.4.2 FOR WALL REINFORCING DETAILS - PROVIDE WALL REINFORCING FOR MILLWORK, SHELVES, WALL MOUNTED EQUIPMENT, GRAB BARS, TOILET ACCESSORIES & DOOR BUMPERS

13. PROVIDE GLASSMAT BACKER AT ALL TOILET ROOM TILE WALLS.

14. PROVIDE POSITIVE SLOPE AT ALL FLOOR DRAINS

15. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR EQUIPMENT PAD LOCATIONS & SIZES

16. CLEAN AND REPAIR EXISTING CONSTRUCTION TO REMAIN.

17. REFER TO ENLARGED TOILET ROOM PLANS ON A6.1 FOR TOILET ACCESSORY INFORMATION.. PROVIDE MOP AND BROOM HOLDER AT ALL JANITOR'S CLOSETS (SEE SPEC SECTION 102800)

18. PROVIDE LINTELS AT NEW OPENINGS IN EXISTING CMU WALLS. SEE SHEET A4.1.1 FOR DETAILS.

19. NOT USED

20. REFER TO SHEET A7.2.1 FOR MATERIAL INDEX

21. REFER TO SHEET A7.2.2 FOR ROOM FINISH SCHEDULE

22. PATCH AND REPAIR AREAS OF EXISTING SLAB WHERE PARTITIONS, DOOR FRAMES, OR DOOR THRESHOLDS HAVE BEEN REMOVED AS REQUIRED FOR WORK. TO MATCH ADJACENT SURFACE.

23. PATCH ALL HOLES IN EXISTING PARTITIONS & WALLS THAT ARE TO BE EXPOSED BY NEW WORK FROM REMOVED FURRING, BRACKETS, CABINETS, MECHANICAL OR ELECTRICAL EQUIPMENT. TO MATCH ADJACENT SURFACE.

24. EXCEPT IN STAIR WELLS AND MECH/ELEC RMS, ALL CMU WALLS WILL BE FURRED OUT WITH WALL TYPE "G" OR "H" UNLESS NOTED OTHERWISE. FURRING TYPE IS BASED ON ELECTRICAL OUTLETS.

25. EXISTING PLASTER COLUMNS TO REMAIN EXPOSED WILL BE FINISHED IN KIND FROM FLOOR TO CEILING WHERE REMOVAL OF CEILING AND OR HVAC PLENUM EXPOSES UNFINISHED PORTIONS OF COLUMN

26. PROVIDE PATCHING COMPOUND AND UNDERLAYMENT TO REPAIR FLOORS DAMAGED BY DEMOLITION AND TERRAZZO BASE REMOVAL. RESTORE FLOOR SURFACE TO A LEVEL SUBSTRATE SUITABLE FOR INSTALLATION OF NEW FLOORS.

27. REFER TO SHEET SERIES A.7.7 FOR FLOOR FINISH PLANS, FLOOR PATTERN INTENT, WALL PROTECTION LOCATIONS, FLOOR TRANSITION LOCATIONS, AND SIGNAGE LOCATIONS.

28. ALL BASE CABINETS TO BE AS NOTED WITH WOOD FILLER PANELS WHERE NEEDED.

29. REFER TO ALTERNATE KEYPLANS FOR CLARIFICATION OF ALTERNATE SCOPE7.

30. REFER TO ROOM FINISH SCHEDULE AND COLOR AND MATERIAL SCHEDULE FOR WINDOW TREATMENT INFORMATION.

RCP GENERAL NOTES

A. REFER TO ARCHITECTURAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS
B. REFER TO MECHANICAL AND ELECTRICAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS
C. COORDINATE LOCATION OF ALL ELEMENTS WITHIN HARD CEILING WITH ARCHITECT PRIOR TO INSTALLATION
D. REFER TO FLOOR PLANS FOR PARTITION TYPE DESIGNATIONS
E. ALL SPRINKLER HEADS, SPEAKERS AND LIGHT FIXTURES SHALL BE CENTERED IN CEILING TILES.
F. CENTER ALL CEILING GRIDS WITHIN ROOMS UNLESS NOTED OTHERWISE
G. CENTER ALL SMOKE DETECTORS WHEN LOCATED IN GYP. BD. CORRIDOR CEILING.
H. REFER TO ROOM FINISH SCHEDULE FOR WINDOW SHADE TYPE AND CEILING FINISHES.

HamiltonAnderson
architecture landscape architecture urban design

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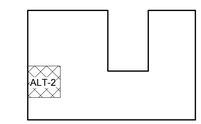
Structural Engineer — Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

WAYNE STATE UNIVERSITY

Client
WAYNE STATE UNIVERSITY FP&M
5454 Cass Avenue
Detroit, Michigan

Key Plan:



FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ALTERNATE 2 - PLANS

Project Number: 2013088.22 — WSU Project No: 063-301464

Drawn By: HM/JAM — Approved By: RH

Scale: As indicated

Seal:

Signature:

Drawing No:
A1.10

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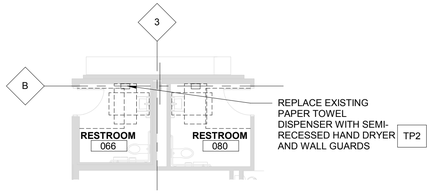
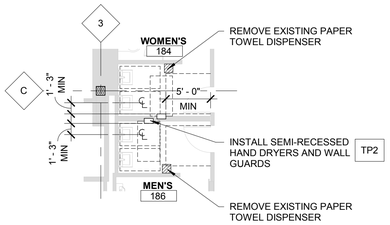


LOWER LEVEL RESTROOM PLAN
ALTERNATE 3
1/8" = 1'-0"



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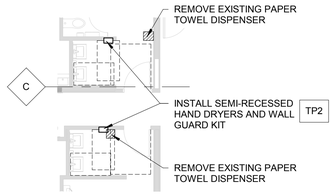

SECOND LEVEL RESTROOM PLAN
ALTERNATE 3
1/8" = 1'-0"

ROOM FINISH SCHEDULE ALTERNATE 3

SEE SHEET A7.2.1 FOR GENERAL FINISH NOTES

ROOM NUMBER	ROOM NAME	FLOORS		WALLS				CEILINGS		REMARKS
		FLOOR	BASE	NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH	
00 LOWER LEVEL										
066	RESTROOM									11
080	RESTROOM									11
01 FIRST FLOOR										
184	WOMEN'S									11
186	MEN'S									11

TOILET ACCESSORIES

TP1	TOILET TISSUE DISPENSER	T1	NOT USED
TP2	HAND DRYER WITH WALL PROTECTION	T2	COAT HOOK (ACCESSIBLE)
TP3	SOAP DISPENSER	T3	MOP AND BROOM HOLDER
TP5	SANITARY DISPOSAL	T4	MIRROR 24"X36", RE: AG0.1
TP6	PAPER TOWEL DISPENSER		
G1	TWO-WALL GRAB BAR 42" & 36", RE: AG0.1		
G2	GRAB BAR 18", RE: AG0.1		

NOTES

1. REFER TO SHEET AG0.1 FOR TOILET FIXTURE AND ACCESSORY MOUNTING HEIGHTS.
2. PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT. REFER TO SHEET A7.4.2
2. PROVIDE UNDERLAVATORY GUARDS AT EXPOSED PLUMBING AT ALL LAVATORIES.

FINISH REMARK NOTES

1. NEW FLOORING IN STAIRWELLS. EXISTING TERRAZZO TREADS, RISERS, AND INTERMEDIATE LANDINGS TO REMAIN.

2. REFER TO FINISH PLANS, ELEVATIONS AND 3D VIEWS FOR ACCENT PAINT AND FEATURE WALL LOCATIONS.

3. WINDOW TREATMENT TO BE WT-1.

4. REINSTALL SALVAGED WINDOW TREATMENTS.

5. REFER TO CASEWORK NOTES FOR CASEWORK & COUNTERTOP INFORMATION.

6. MARKER BOARDS GL-10 AS INDICATED ON ELEVATIONS.

7. EXISTING BRICK WALLS TO REMAIN, UNLESS NOTED OTHERWISE.

8. FULL HEIGHT TILE ON WET WALLS.

9. EXPOSED PIPING PAINTED PT-3.

10. UTILIZE ACCESSIBLE CEILING AS APPLICABLE

11. ALTERNATE #3

12. PROVIDE ACOUSTICAL BATT INSULATION ABOVE CEILING

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10. CONTRACTOR IS TO PROVIDE COMPLETE DUST PROOF ENCLOSURE IN ALL AREAS WHERE DEMOLITION IS TO OCCUR. COMPLY WITH ALL OSHA, NFPA AND OTHER APPLICABLE RULES AND REGULATIONS REGARDING DUST AND DEBRIS REMOVAL.

11. UTMOST CARE MUST BE TAKEN DURING DEMOLITION TO ENSURE THAT EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED. REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION ACTIVITIES.

12. PROVIDE CONSTRUCTION WASTE MANAGEMENT PLAN PRIOR TO THE START OF DEMOLITION. TARGET 50% RECYCLING OF CONSTRUCTION WASTE.

13. REMOVE AND REINSTALL ITEMS TO BE SALVAGED WHERE INDICATED AND WHERE ADVISED BY OWNER.

14. INVENTORY AND PHOTOGRAPH SALVAGED ITEMS: LIST SHALL INCLUDE DESCRIPTION OF ITEM, DIMENSIONS (OVERALL WIDTH, HEIGHT, DEPTH), COLOR, APPROX. WEIGHT AND PHOTO.

15. CONTRACTOR SHALL PROTECT ALL STRUCTURAL ELEMENTS FROM DAMAGE DURING CONSTRUCTION.

16. PROTECT EXISTING EXTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES.

17. PROTECT EXISTING INTERIOR DOORS, WINDOWS, GLAZING, AND FRAMES, THAT ARE TO REMAIN (TYP.)

18. REFER TO SPECIFICATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

19. ALL SURFACES THAT ARE TO REMAIN ARE TO BE CLEANED W/ WATER & DETERGENT PRIOR TO INSTALLATION OF NEW FINISHES

20. SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.

21. WHEN REMOVING MECHANICAL, ELECTRICAL AND PLUMBING ITEMS, REMOVE ALL ASSOCIATED FASTENERS, CABLE, RODS, ETC.

22. DO NOT PROCEED WITH NEW FLOOR OPENINGS OR WALL OPENINGS UNTIL NEW SUPPORT STRUCTURE IS IN PLACE, SEE STRUCTURAL DETAILS (SHEET A4.1.1).

DEMOLITION LEGEND

- REMOVE WALL COMPLETE
- EXISTING STUD & GYP/PLASTER CONSTRUCTION TO REMAIN, U.N.O.
- REMOVE DOOR, FRAME, AND HARDWARE COMPLETE
- EXISTING DOOR AND FRAME TO REMAIN
- EXISTING TERRAZZO STAIR / LANDING
- AREA OF WORK (BASE PROJECT)

FLOOR PLAN NOTES

1. ARCH ELEV 0'-0" = EXISTING GROUND FLOOR ELEV

2. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION

3. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, COLUMN CENTERLINE, FACE OF CONCRETE, AND OR FACE OF MASONRY UON

4. NEW CONSTRUCTION PARTITIONS THAT CONNECT W/ END OF AN EXISTING PARTITION TO BE FLUSH WITH EXISTING UON.

5. OPENING DIMS ARE FINISH SURFACE CLEAR DIMENSIONS

6. TYPICAL DOOR FRAME TO WALL DIMENSION IS 4" UON. REFER TO SHEET A7.1.1 FOR DOOR SCHEDULE.

7. NEW PARTITIONS WILL BE TYPE A30 UON.

8. REFER TO SHEET A7.4.1 FOR PARTITION TYPES

9. MAINTAIN 1-HR FIRE RATING AT EXISTING SHAFT WALLS W/ NEW OPENINGS & AT EXISTING SHAFT OPENINGS TO BE CLOSED. SEE SHT A7.4.1 FOR PARTITION TYPE 'J' - 1-HR RATED SHAFTWALL

10. REFER TO SPECIFICATIONS FOR FIRESTOPPING AND PENETRATION INFORMATION

11. REFER TO SHEET AG0.1 FOR TYPICAL ROOM ACCESSORIES MOUNTING HEIGHTS, CLEAR FLOOR SPACE AT DOORS, & CLEAR FLOOR SPACE AT PLUMBING FIXTURES

12. REFER TO SHEET A7.4.2 FOR WALL REINFORCING DETAILS - PROVIDE WALL REINFORCING FOR MILLWORK, SHELVES, WALL MOUNTED EQUIPMENT, GRAB BARS, TOILET ACCESSORIES & DOOR BUMPERS

13. PROVIDE GLASSMAT BACKER AT ALL TOILET ROOM TILE WALLS.

14. PROVIDE POSITIVE SLOPE AT ALL FLOOR DRAINS

15. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS FOR EQUIPMENT PAD LOCATIONS & SIZES

16. CLEAN AND REPAIR EXISTING CONSTRUCTION TO REMAIN.

17. REFER TO ENLARGED TOILET ROOM PLANS ON A6.1 FOR TOILET ACCESSORY INFORMATION.. PROVIDE MOP AND BROOM HOLDER AT ALL JANITOR'S CLOSETS (SEE SPEC SECTION 102800)

18. PROVIDE LINTELS AT NEW OPENINGS IN EXISTING CMU WALLS. SEE SHEET A4.1.1 FOR DETAILS.

19. NOT USED

20. REFER TO SHEET A7.2.1 FOR MATERIAL INDEX

21. REFER TO SHEET A7.2.2 FOR ROOM FINISH SCHEDULE

22. PATCH AND REPAIR AREAS OF EXISTING SLAB WHERE PARTITIONS, DOOR FRAMES, OR DOOR THRESHOLDS HAVE BEEN REMOVED AS REQUIRED FOR WORK. TO MATCH ADJACENT SURFACE.

23. PATCH ALL HOLES IN EXISTING PARTITIONS & WALLS THAT ARE TO BE EXPOSED BY NEW WORK FROM REMOVED FURRING, BRACKETS, CABINETS, MECHANICAL OR ELECTRICAL EQUIPMENT. TO MATCH ADJACENT SURFACE.

24. EXCEPT IN STAIR WELLS AND MECH/ELEC RMS, ALL CMU WALLS WILL BE FURRED OUT WITH WALL TYPE "G" OR "H" UNLESS NOTED OTHERWISE. FURRING TYPE IS BASED ON ELECTRICAL OUTLETS.

25. EXISTING PLASTER COLUMNS TO REMAIN EXPOSED WILL BE FINISHED IN KIND FROM FLOOR TO CEILING WHERE REMOVAL OF CEILING AND OR HVAC PLENUM EXPOSES UNFINISHED PORTIONS OF COLUMN

26. PROVIDE PATCHING COMPOUND AND UNDERLAYMENT TO REPAIR FLOORS DAMAGED BY DEMOLITION AND TERRAZZO BASE REMOVAL. RESTORE FLOOR SURFACE TO A LEVEL SUBSTRATE SUITABLE FOR INSTALLATION OF NEW FLOORS.

27. REFER TO SHEET SERIES A.7.7 FOR FLOOR FINISH PLANS, FLOOR PATTERN INTENT, WALL PROTECTION LOCATIONS, FLOOR TRANSITION LOCATIONS, AND SIGNAGE LOCATIONS.

28. ALL BASE CABINETS TO BE AS NOTED WITH WOOD FILLER PANELS WHERE NEEDED.

29. REFER TO ALTERNATE KEYPLANS FOR CLARIFICATION OF ALTERNATE SCOPE7.

30. REFER TO ROOM FINISH SCHEDULE AND COLOR AND MATERIAL SCHEDULE FOR WINDOW TREATMENT INFORMATION.

FLOOR PLAN LEGEND

- AREA OF WORK
- FLOOR DRAIN
- FEC — FIRE EXTINGUISHER CABINET, RE: AG0.1
- EXISTING WALL
- NEW PARTITION WALL
- NEW DOOR
- EXISTING DOOR

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Structural Engineer — Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

WAYNE STATE UNIVERSITY

Client
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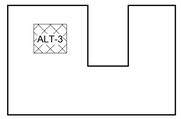
Detroit, Michigan

Key Plan:



FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ALTERNATE 3 - PLANS

Project Number: 2013088.22 — WSU Project No: 063-301464

Drawn By: HM/JAM — Approved By: RH

Scale: As indicated

Seal:

Signature:

Drawing No:
A1.11

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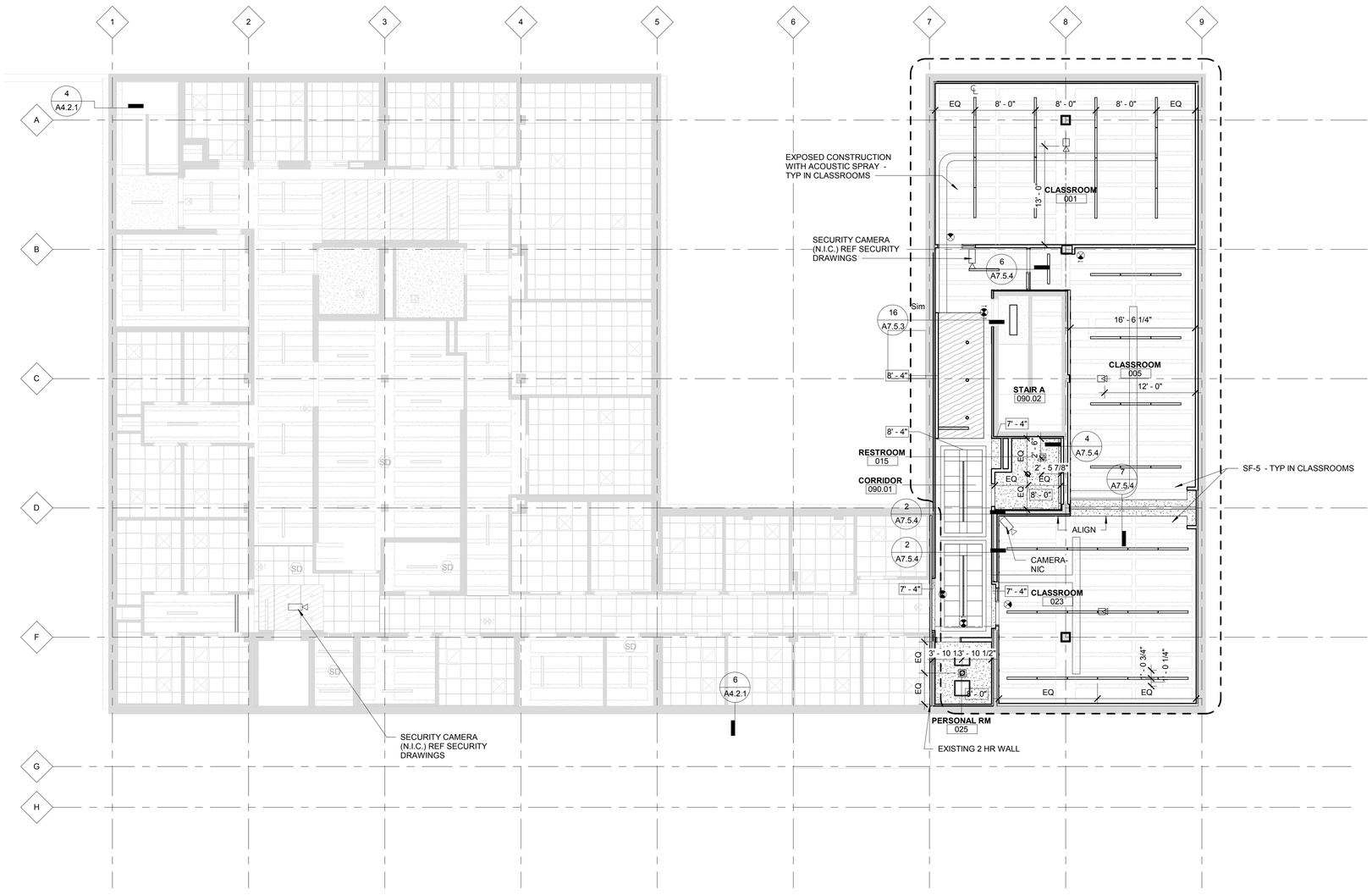

LOWER LEVEL REFLECTED CEILING PLAN

1/8" = 1'-0"

0 4' 8' 16'

RCP LEGEND

- 2X2 ACOUSTICAL CEILING
- GYP. BOARD- PAINTED
- DECORATIVE CEILING PANEL
- 2X2 LAY-IN CEILING LIGHT, RE: ELEC
- RECESSED CAN LIGHT, RE: ELEC
- LINEAR PENDANT / RECESSED LIGHT, RE: ELEC
- DECORATIVE LINEAR PENDANT, RE: ELEC
- DECORATIVE PENDANT MOUNTED, RE: ELEC
- RECESSED CAN LIGHT, RE: ELEC
- SD — CEILING MOUNTED SMOKE DETECTOR, RE: ELEC
- EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE)
- EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE)
- EXIT LIGHTING (SHADED AREA INDICATES FACE)
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- EXHAUST REGISTER
- ACCESS PANEL
- WINDOW SHADE
- AREA OF WORK
- PROJECTOR- COORDINATE MOUNTING HEIGHT WITH TOP OF SCREEN

RCP GENERAL NOTES

A. REFER TO ARCHITECTURAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS

B. REFER TO MECHANICAL AND ELECTRICAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS

C. COORDINATE LOCATION OF ALL ELEMENTS WITHIN HARD CEILING WITH ARCHITECT PRIOR TO INSTALLATION

D. REFER TO FLOOR PLANS FOR PARTITION TYPE DESIGNATIONS

E. ALL SPRINKLER HEADS, SPEAKERS AND LIGHT FIXTURES SHALL BE CENTERED IN CEILING TILES.

F. CENTER ALL CEILING GRIDS WITHIN ROOMS UNLESS NOTED OTHERWISE

G. CENTER ALL SMOKE DETECTORS WHEN LOCATED IN GYP. BD. CORRIDOR CEILING.

H. REFER TO ROOM FINISH SCHEDULE FOR WINDOW SHADE TYPE AND CEILING FINISHES.

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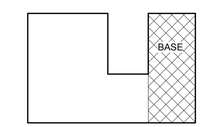

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PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
LOWER LEVEL REFLECTED CEILING PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

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

Seal:

Signature:

Drawing No:
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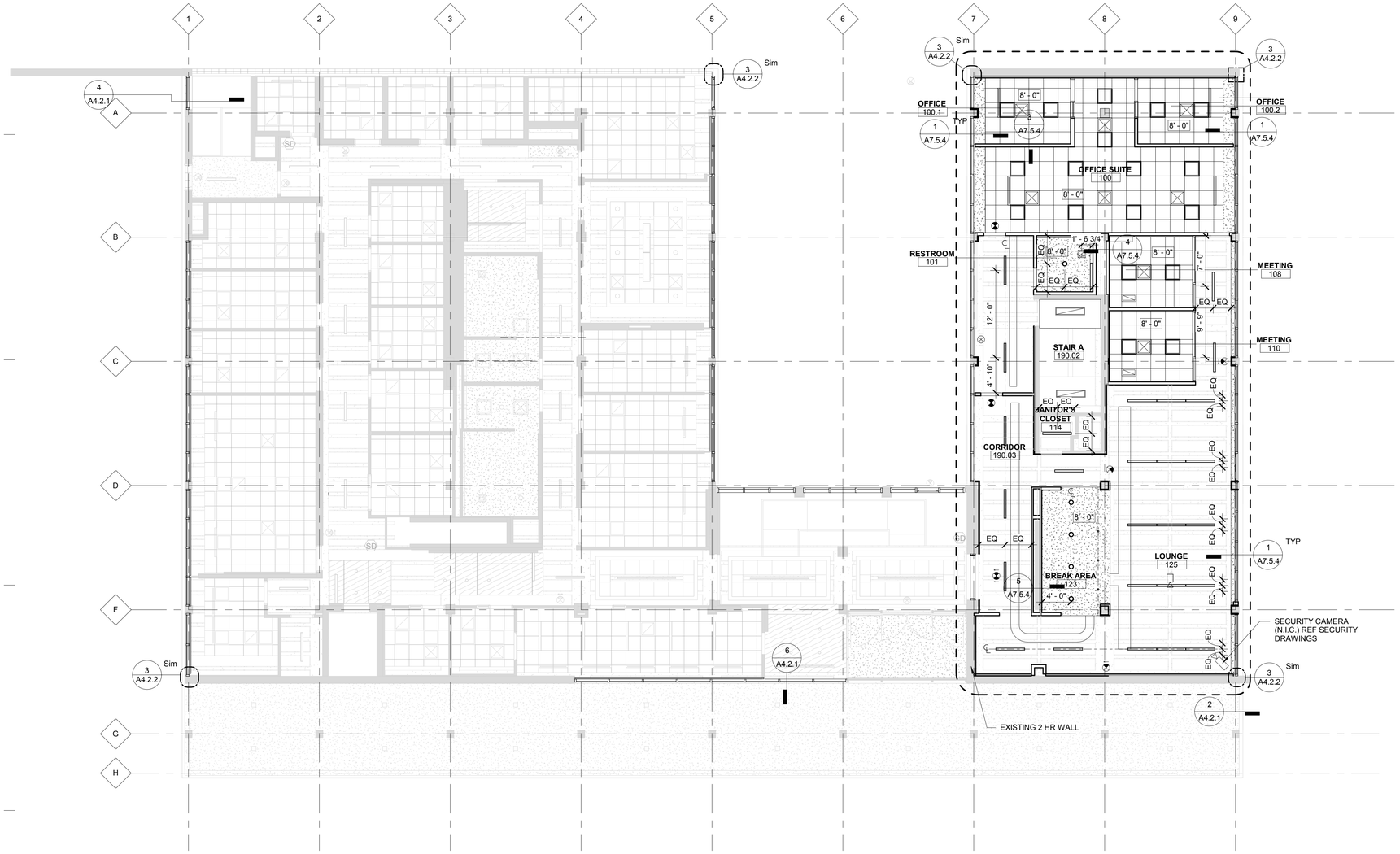

FIRST FLOOR REFLECTED CEILING PLAN

1/8" = 1'-0"

0 4' 8' 16'

RCP LEGEND

- 2X2 ACOUSTICAL CEILING
- GYP. BOARD- PAINTED
- DECORATIVE CEILING PANEL
- 2X2 LAY-IN CEILING LIGHT, RE: ELEC
- RECESSED CAN LIGHT, RE: ELEC
- LINEAR PENDANT / RECESSED LIGHT, RE: ELEC
- DECORATIVE LINEAR PENDANT, RE: ELEC
- DECORATIVE PENDANT MOUNTED, RE: ELEC
- RECESSED CAN LIGHT, RE: ELEC
- SD CEILING MOUNTED SMOKE DETECTOR, RE: ELEC
- EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE)
- EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE)
- EXIT LIGHTING (SHADED AREA INDICATES FACE)
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- EXHAUST REGISTER
- ACCESS PANEL
- WINDOW SHADE
- AREA OF WORK
- PROJECTOR- COORDINATE MOUNTING HEIGHT WITH TOP OF SCREEN

RCP GENERAL NOTES

A. REFER TO ARCHITECTURAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS
B. REFER TO MECHANICAL AND ELECTRICAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS
C. COORDINATE LOCATION OF ALL ELEMENTS WITHIN HARD CEILING WITH ARCHITECT PRIOR TO INSTALLATION
D. REFER TO FLOOR PLANS FOR PARTITION TYPE DESIGNATIONS
E. ALL SPRINKLER HEADS, SPEAKERS AND LIGHT FIXTURES SHALL BE CENTERED IN CEILING TILES.
F. CENTER ALL CEILING GRIDS WITHIN ROOMS UNLESS NOTED OTHERWISE
G. CENTER ALL SMOKE DETECTORS WHEN LOCATED IN GYP. BD. CORRIDOR CEILING.
H. REFER TO ROOM FINISH SCHEDULE FOR WINDOW SHADE TYPE AND CEILING FINISHES.

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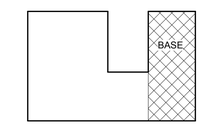

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PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
FIRST LEVEL REFLECTED CEILING PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

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

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Signature:

Drawing No:
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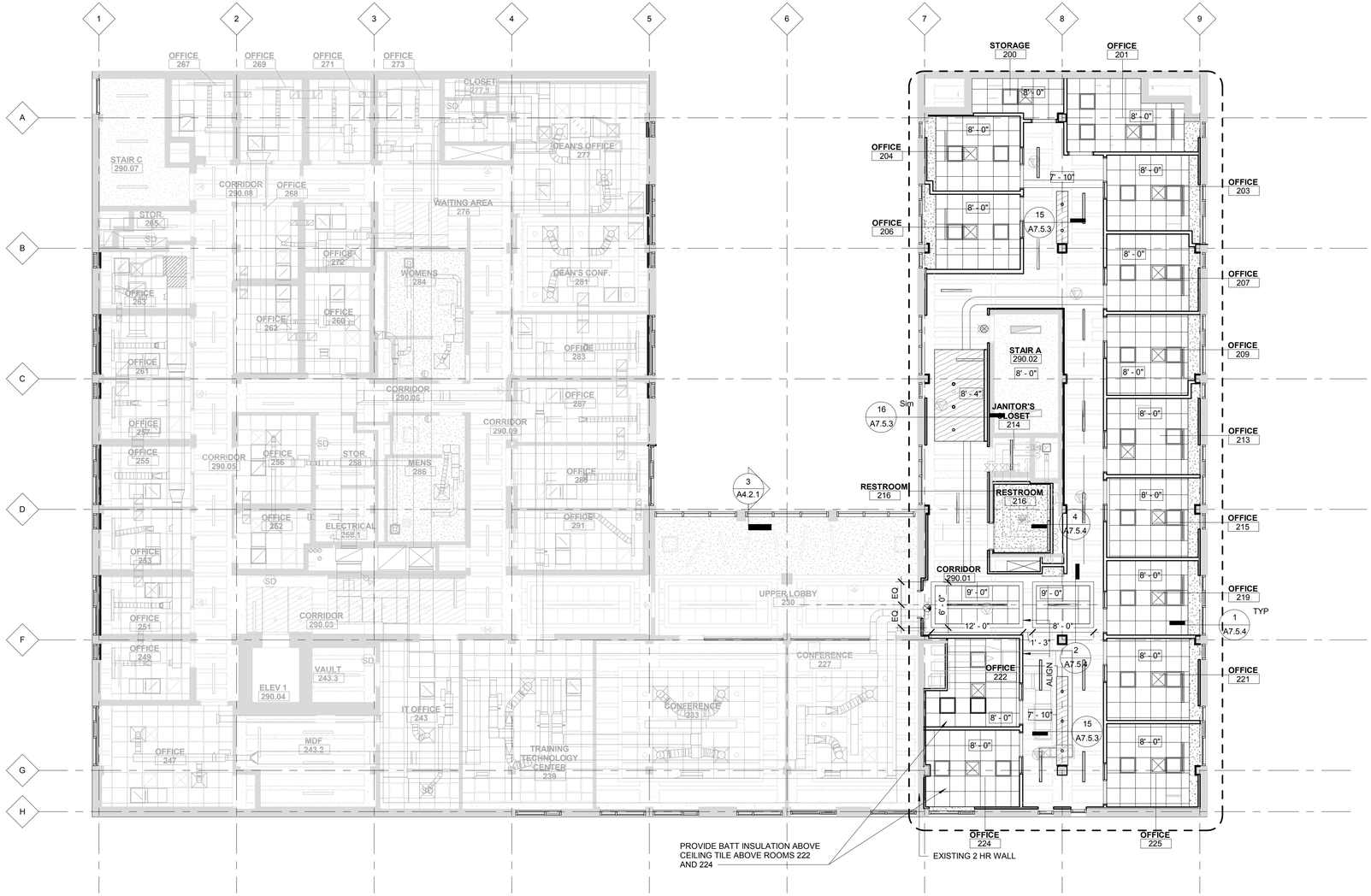

SECOND FLOOR CEILING PLAN-PHASE 2

1/8" = 1'-0"

0 4' 8' 16'

RCP LEGEND

- 2X2 ACOUSTICAL CEILING
- GYP. BOARD- PAINTED
- DECORATIVE CEILING PANEL
- 2X2 LAY-IN CEILING LIGHT, RE: ELEC
- RECESSED CAN LIGHT, RE: ELEC
- LINEAR PENDANT / RECESSED LIGHT, RE: ELEC
- DECORATIVE LINEAR PENDANT, RE: ELEC
- DECORATIVE PENDANT MOUNTED, RE: ELEC
- RECESSED CAN LIGHT, RE: ELEC
- CEILING MOUNTED SMOKE DETECTOR, RE: ELEC
- EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE)
- EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE)
- EXIT LIGHTING (SHADED AREA INDICATES FACE)
- SUPPLY DIFFUSER
- RETURN DIFFUSER
- EXHAUST REGISTER
- ACCESS PANEL
- WINDOW SHADE
- AREA OF WORK
- PROJECTOR- COORDINATE MOUNTING HEIGHT WITH TOP OF SCREEN

RCP GENERAL NOTES

A. REFER TO ARCHITECTURAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS
B. REFER TO MECHANICAL AND ELECTRICAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS
C. COORDINATE LOCATION OF ALL ELEMENTS WITHIN HARD CEILING WITH ARCHITECT PRIOR TO INSTALLATION
D. REFER TO FLOOR PLANS FOR PARTITION TYPE DESIGNATIONS
E. ALL SPRINKLER HEADS, SPEAKERS AND LIGHT FIXTURES SHALL BE CENTERED IN CEILING TILES.
F. CENTER ALL CEILING GRIDS WITHIN ROOMS UNLESS NOTED OTHERWISE
G. CENTER ALL SMOKE DETECTORS WHEN LOCATED IN GYP. BD. CORRIDOR CEILING.
H. REFER TO ROOM FINISH SCHEDULE FOR WINDOW SHADE TYPE AND CEILING FINISHES.

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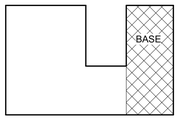

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PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
SECOND LEVEL REFLECTED CEILING PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

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

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Drawing No:

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ELEVATION LEGEND

(T) SAFETY GLASS

EXISTING GLASS BLOCK TO REMAIN

ELEVATION NOTES

1. ARCH ELEV 0'-0" = EXISTING GROUND FLOOR ELEV

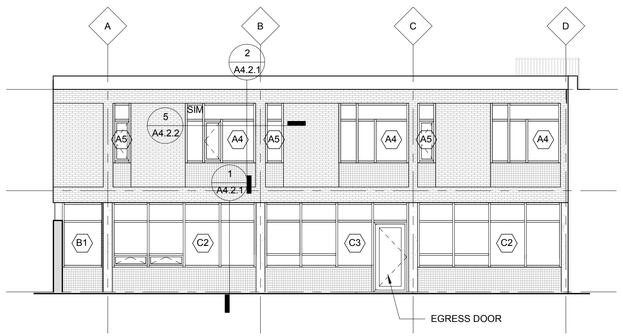
2. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION

3. VERIFY ALL STOREFRONT AND CURTAINWALL DIMENSIONS IN FIELD

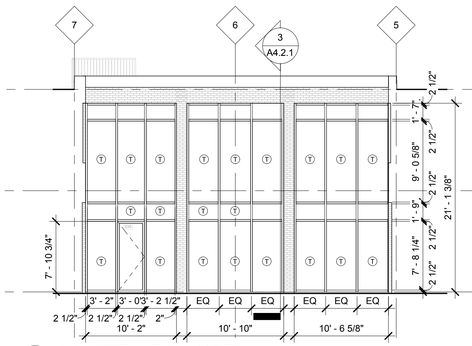
4. CLEAN AND REPAIR EXISTING CONSTRUCTION TO REMAIN.

5. PATCH AND REPAIR AREAS OF EXISTING SLAB WHERE PARTITIONS, DOOR FRAMES, OR DOOR THRESHOLDS HAVE BEEN REMOVED AS REQUIRED FOR WORK. TO MATCH ADJACENT SURFACE.

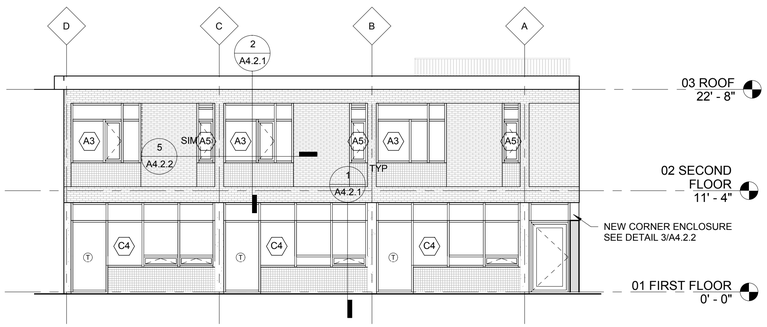
6. REFER TO WINDOW SCHEDULE FOR DESIGNATED WINDOW TYPES. OPERABLE VENTS TO BE PROVIDED AS INDICATED ON EXTERIOR ELEVATIONS ON THIS SHEET. 50% OF OPERABLE VENTS TO PROVIDE AAMA 513 5 LB FORCE HARDWARE.



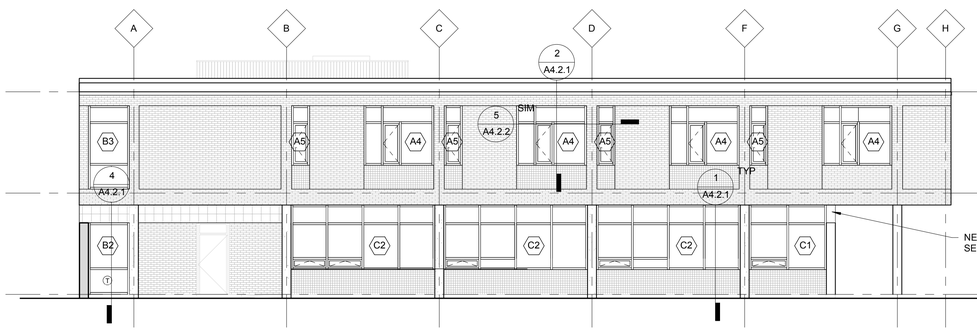
6 A1.1.1 COURTYARD WEST
1/8" = 1'-0"



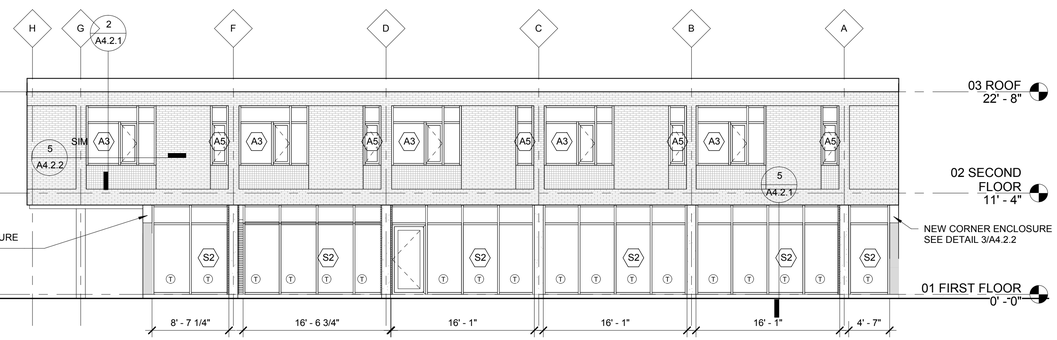
5 A1.1.1 COURTYARD NORTH
1/8" = 1'-0"



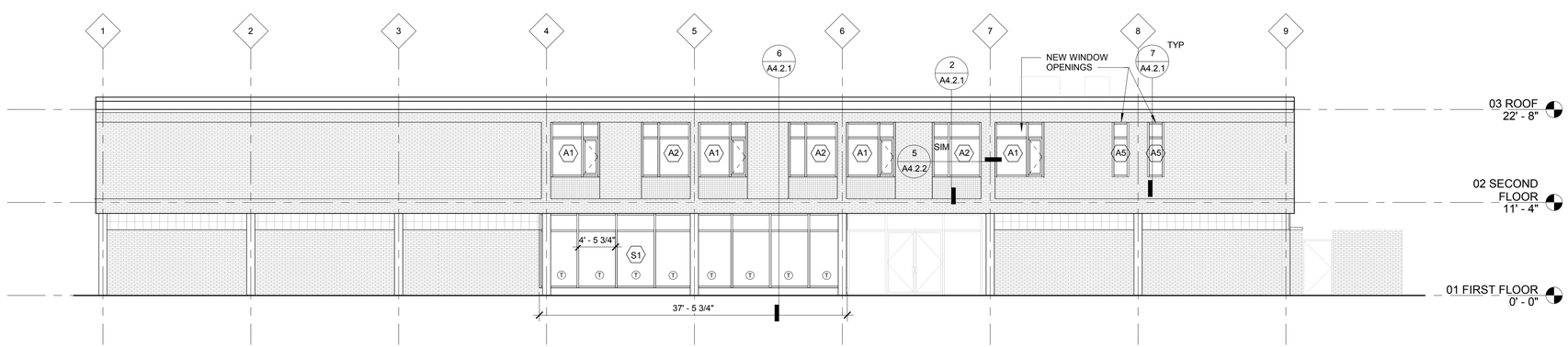
4 A1.1.1 COURTYARD EAST
1/8" = 1'-0"



3 A1.1.1 WEST ELEVATION
1/8" = 1'-0"



2 A1.1.1 EAST ELEVATION
1/8" = 1'-0"



1 A1.1.1 SOUTH ELEVATION
1/8" = 1'-0"

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Key Plan:

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
EXTERIOR ELEVATIONS

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale: As indicated

Seal:

Signature:

Drawing No:
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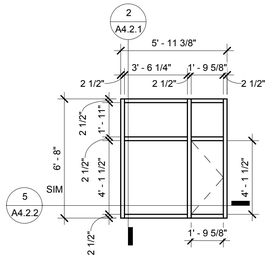
EXTERIOR STOREFRONT TYPES



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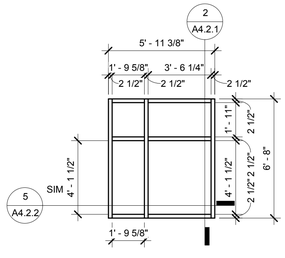

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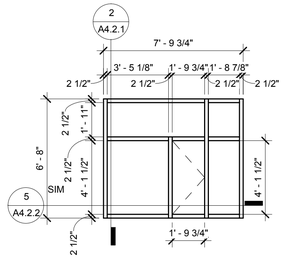
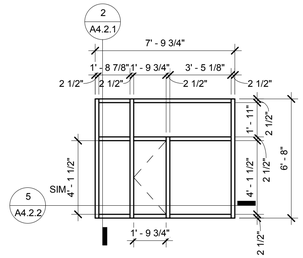


A3

REFER TO ELEVATION FOR OPERABLE VENT PLACEMENTS AND SWING DIRECTION



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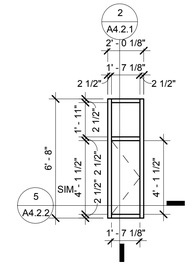
REFER TO ELEVATION FOR OPERABLE VENT PLACEMENTS AND SWING DIRECTION



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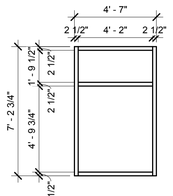

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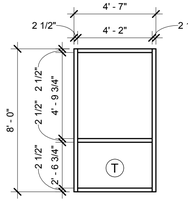

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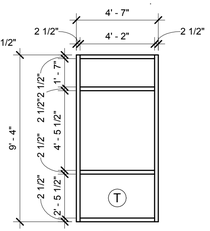

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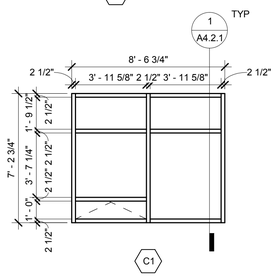

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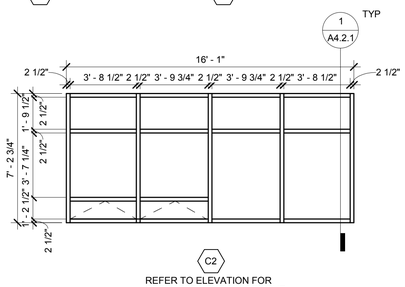

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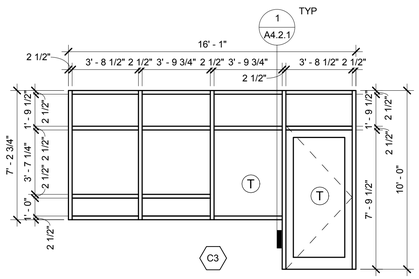
REFER TO ELEVATION FOR OPERABLE VENT PLACEMENT



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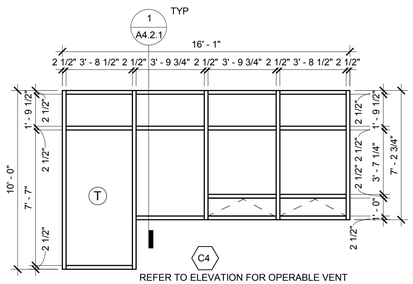

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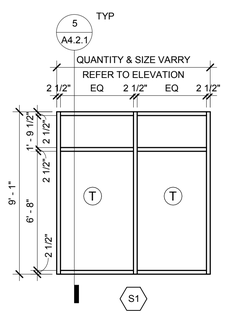

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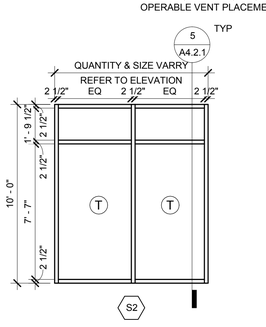

S2

ELEVATION LEGEND

(T) SAFETY GLASS

EXISTING GLASS BLOCK TO REMAIN

ELEVATION NOTES

1. ARCH ELEV 0'-0" = EXISTING GROUND FLOOR ELEV

2. CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION

3. VERIFY ALL STOREFRONT AND CURTAINWALL DIMENSIONS IN FIELD

4. CLEAN AND REPAIR EXISTING CONSTRUCTION TO REMAIN.

5. PATCH AND REPAIR AREAS OF EXISTING SLAB WHERE PARTITIONS, DOOR FRAMES, OR DOOR THRESHOLDS HAVE BEEN REMOVED AS REQUIRED FOR WORK TO MATCH ADJACENT SURFACE.

6. REFER TO WINDOW SCHEDULE FOR DESIGNATED WINDOW TYPES. OPERABLE VENTS TO BE PROVIDED AS INDICATED ON EXTERIOR ELEVATIONS ON THIS SHEET. 50% OF OPERABLE VENTS TO PROVIDE AAMA 513 5 LB FORCE HARDWARE.

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Structural Engineer: Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

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5454 Cass Avenue
Detroit, Michigan

Key Plan:

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
EXTERIOR STOREFRONT SCHEDULE

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale: As indicated

Seal:

Signature:

Drawing No:
A3.1.1

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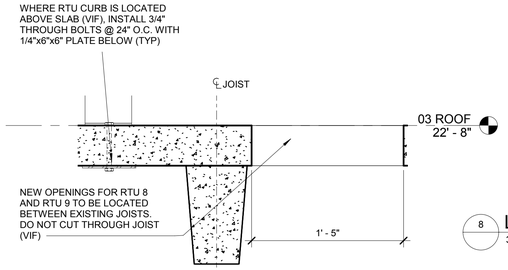
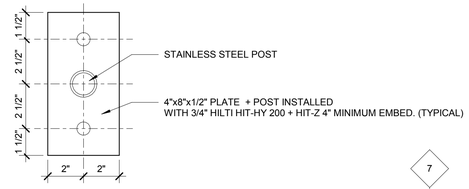
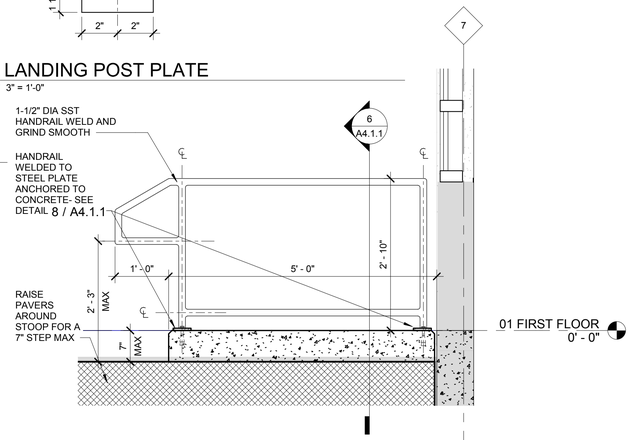


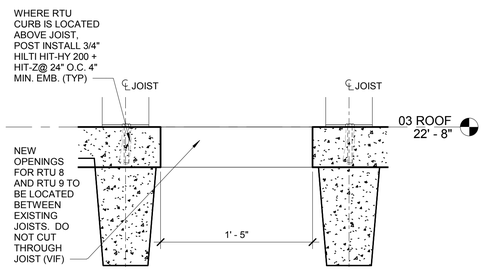
RTU ATTACHMENT DETAIL (CONDITION B)



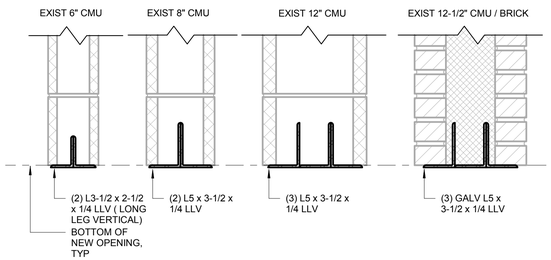
8 LANDING POST PLATE
3" = 1'-0"



7 COURTYARD LANDING ELEVATION
A4.1.1 3/4" = 1'-0"



11 RTU ATTACHMENT DETAIL (CONDITION A)
A1.3 1 1/2" = 1'-0"



LINTELS @ NEW CMU / BRICK OPENINGS IN EXISTING NON LOAD BEARING WALLS:

- MIN 8" BEARING OF ANGLE TYP @ EA END

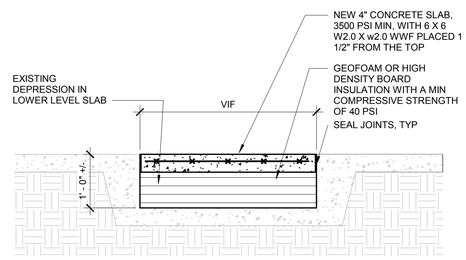
- MAX 7'-0" WIDE NEW OPENING

-FIELD VERIFY ALL EXIST CONDITIONS. REPORT TO ARCHITECT ALL DISCOVERED UNFORSEEN EXIST CONDITIONS THAT PREVENT INSTALLATION OF LINTEL AS SHOWN / NOTED

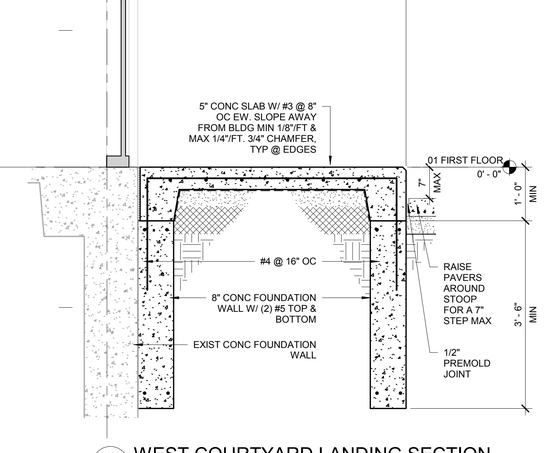
4 SECTION DETAILS @ LINTELS IN EXIST CMU / BRICK
1 1/2" = 1'-0"

GENERAL NOTES:

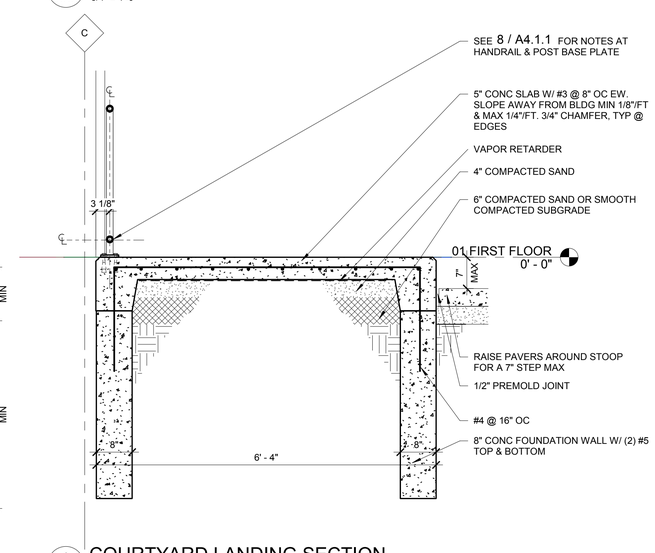
1. HANGERS AND CLAMPS SHALL BE ALIGNED WITH STRUCTURAL MEMBER CENTERLINES. ONE SIDED BEAM CONNECTIONS, EXPANSION ANCHORS OR OTHER ANCHORS TO SLABS ARE NOT ALLOWED FOR PIPES OF 3 INCHES OR GREATER IN DIAMTER. SUBMIT DETAILS FOR PIPE HANGERS AND ATTACHMENTS FOR REVIEW BY ARCHITECT/ STRUCTURAL ENGINEER.
2. MECHANICAL AND ELECTRICAL EQUIPMENT WEIGHTS ASSUMED FOR STRUCTURAL DESIGN ARE SHOWN ON THE PLANS. IF THE EQUIPMENT WEIGHT VARIES FROM THAT LISTED, CONSULT WITH THE ARCHITECT/ STRUCTURAL ENGINEER PRIOR TO SHOP DRAWING SUBMITTAL.



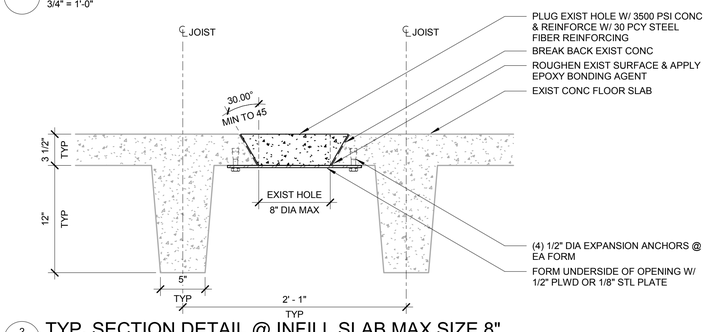
3 SECTION DETAIL @ LOWER LEVEL SLAB INFILL
3/4" = 1'-0"



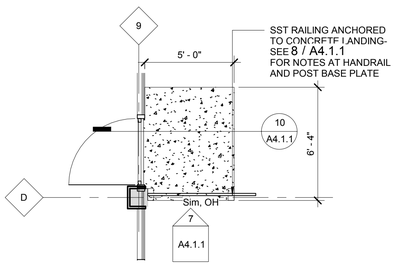
10 WEST COURTYARD LANDING SECTION
A4.1.1 3/4" = 1'-0"



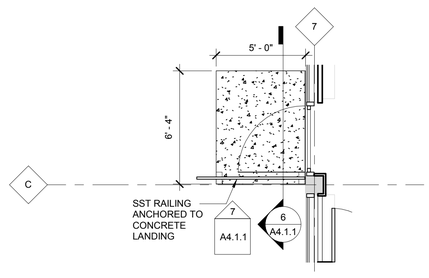
6 COURTYARD LANDING SECTION
A4.1.1 3/4" = 1'-0"



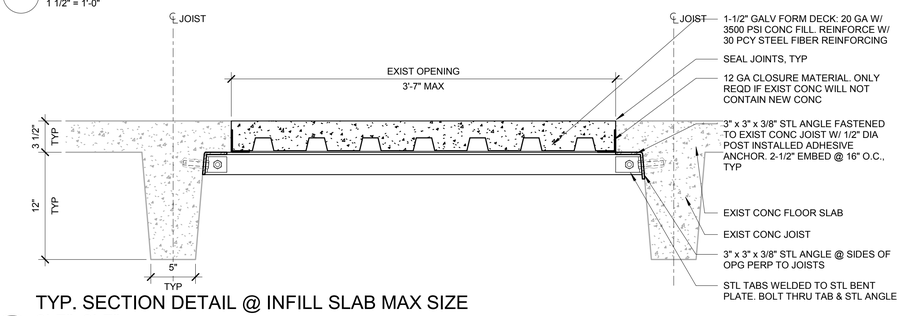
2 TYP. SECTION DETAIL @ INFILL SLAB MAX SIZE 8"
1 1/2" = 1'-0"



9 WEST COURTYARD LANDING
A1.1.1 1/4" = 1'-0"



5 COURTYARD LANDING
A1.1.1 1/4" = 1'-0"



1 TYP. SECTION DETAIL @ INFILL SLAB MAX SIZE 3'-7"x3'-7"
1 1/2" = 1'-0"

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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
STRUCTURAL DETAILS

Project Number: 2013088.22 — WSU Project No: 063-301464
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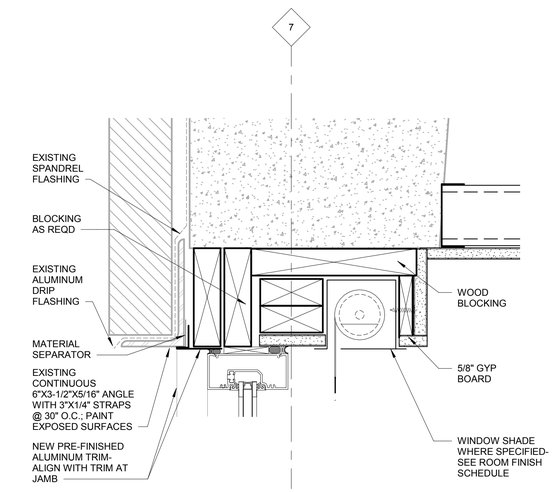
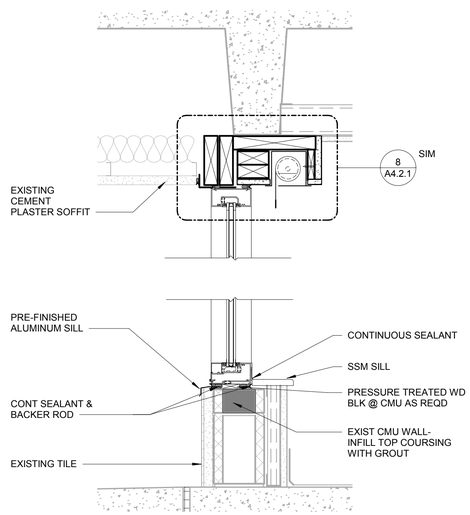
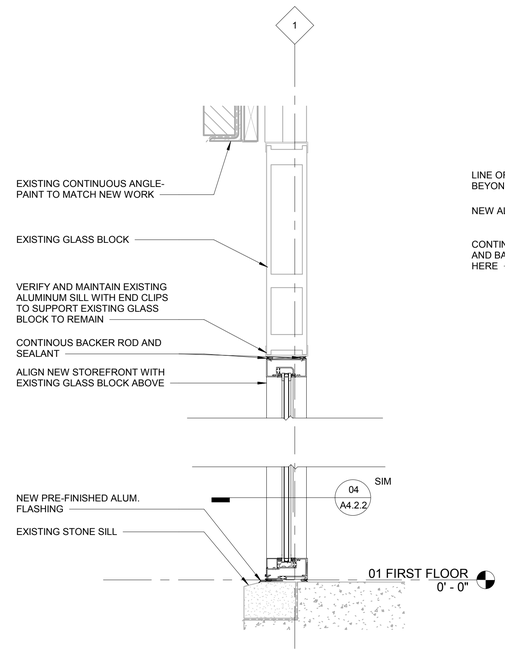


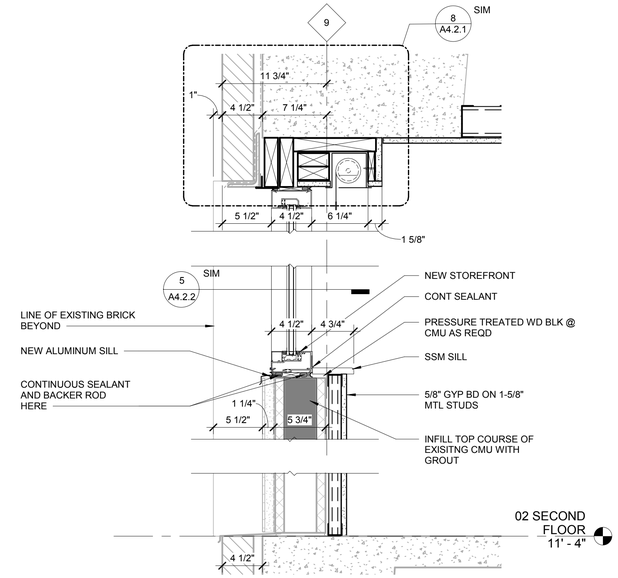
8 A4.2.1 ENLARGED WINDOW HEADER - TYP
3" = 1'-0"



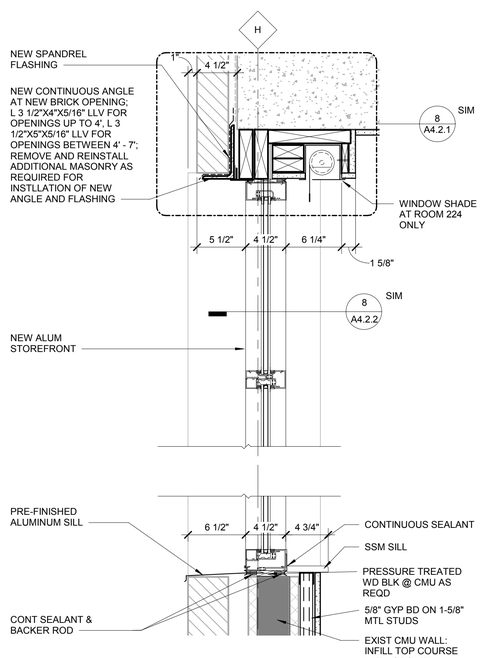
6 A1.1.1 NEW STOREFRONT @ SOFFIT
1 1/2" = 1'-0"



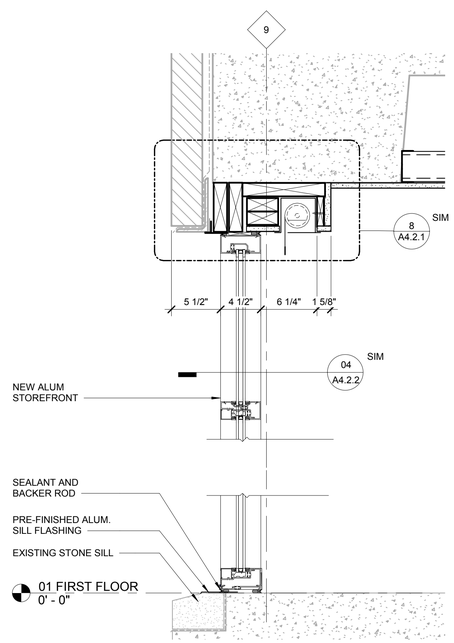
4 A1.1.1 WINDOW @ GLASS BLOCK
1 1/2" = 1'-0"



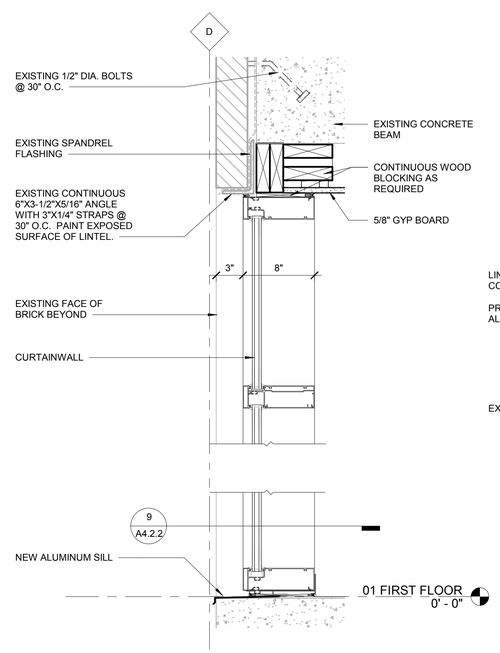
2 A2.1.1 SECOND FLOOR STOREFRONT HEAD/SILL
1 1/2" = 1'-0"



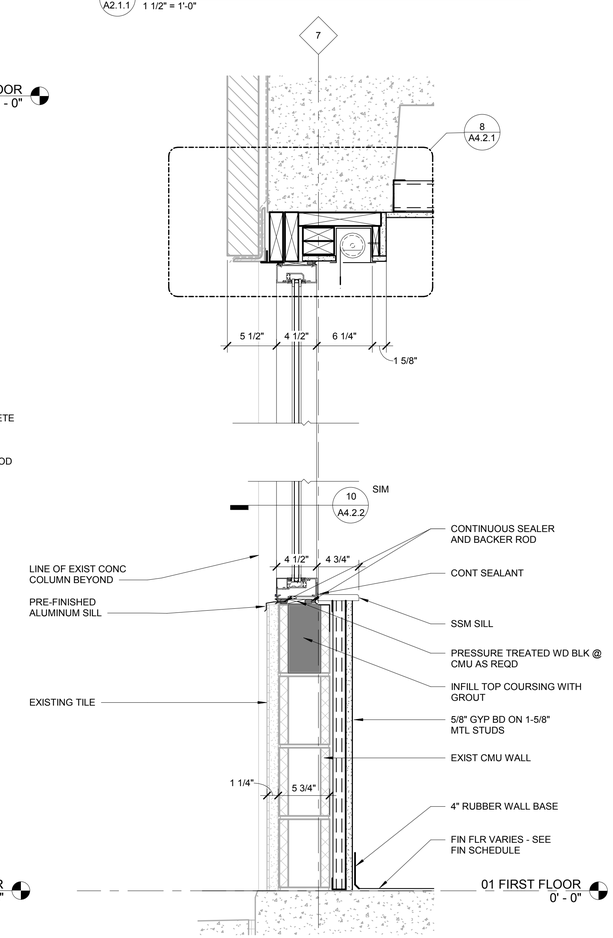
7 A3.0.1 NEW OPENING IN BRICK SECTION
1 1/2" = 1'-0"



5 A3.0.1 STOREFRONT SECTION DETAIL
1 1/2" = 1'-0"



3 A2.2.1 CURTAIN WALL SECTION
1 1/2" = 1'-0"



1 A1.10 STOREFRONT AT EXISTING KNEE WALL
1 1/2" = 1'-0"

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5447 Woodward, Detroit, MI

Drawing Title
SECTION DETAILS

Project Number: 2013088.22 WSU Project No: 063-301464
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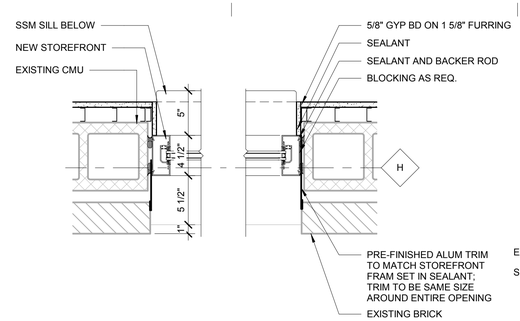
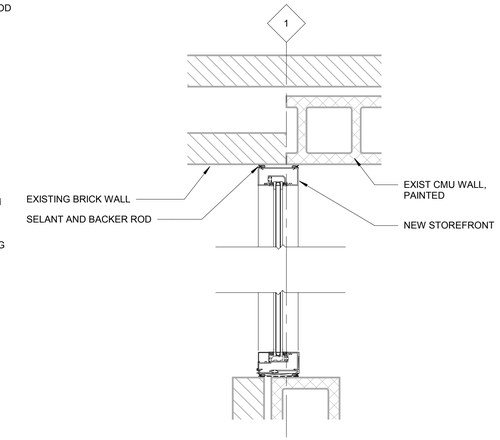
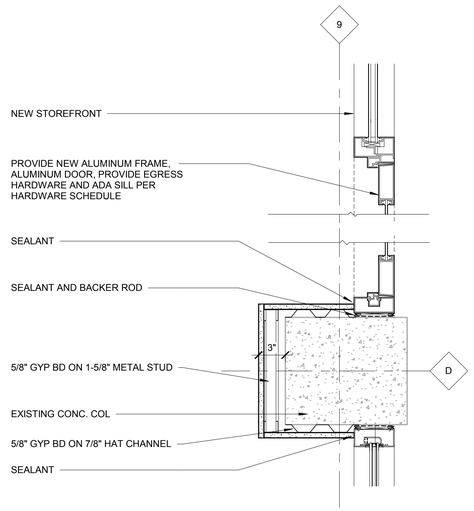
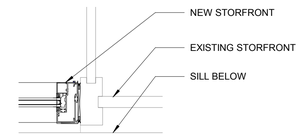


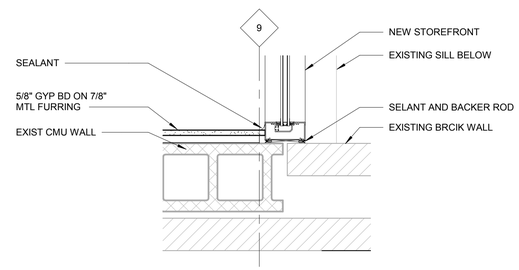
8 A1.2.1 NEW OPENING IN BRICK PLAN DETAIL
1 1/2" = 1'-0"



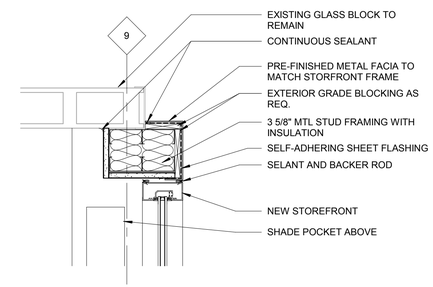




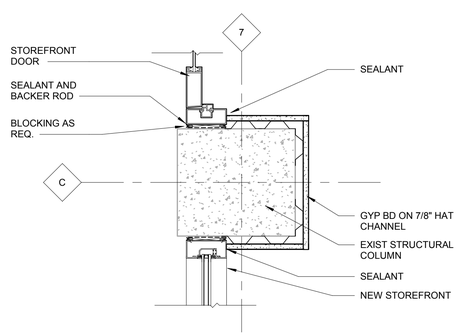
7 A1.1.1 PLAN DETAIL @ EXISTING ENTRY
1 1/2" = 1'-0"



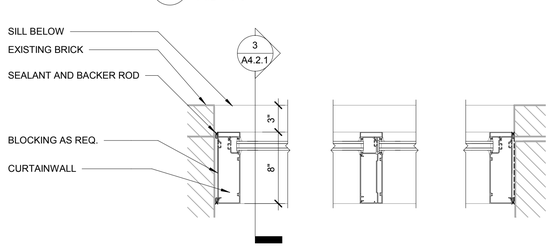
4 A1.1.1 PLAN DETAIL @ WEST STAIR
1 1/2" = 1'-0"



11 A1.1.1 ENLARGED PLAN @ DOOR 125
1 1/2" = 1'-0"

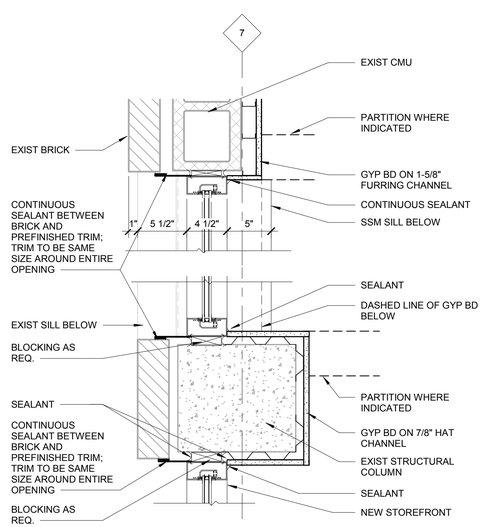


10 A1.1.1 PLAN DETAIL @ EXIT DOOR
1 1/2" = 1'-0"



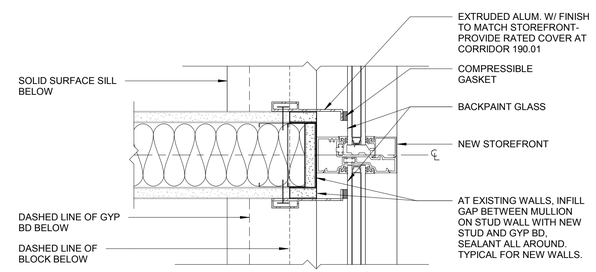
9 A1.1.1 CURTAIN WALL PLAN DETAIL
1 1/2" = 1'-0"

6 A1.1.1 PLAN DETAIL @ CORNER
1 1/2" = 1'-0"

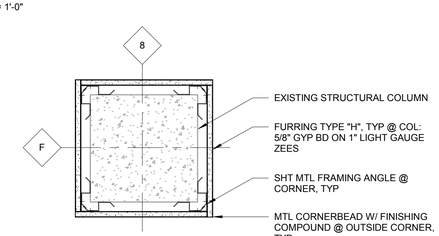


5 A1.2.1 PLAN DETAIL @ SECOND LEVEL OFFICES & CORRIDOR #290.01
1 1/2" = 1'-0"

3 A2.1.1 PLAN DETAIL @ CORNER OF GLASS BLOCK
1 1/2" = 1'-0"



2 A1.1.1 PLAN DETAIL @ WALL TO WINDOW
3" = 1'-0"



1 A1.0.1 PLAN DETAIL @ COLUMN ENCLOSURE, TYP
1 1/2" = 1'-0"

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WAYNE STATE UNIVERSITY

Client
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5454 Cass Avenue
Detroit, Michigan

Key Plan:

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
PLAN DETAILS

Project Number: 2013088.22 WSU Project No: 063-301464
Drawn By: HM/JAM Approved By: RH
Scale: As indicated
Seal:

Signature:

Drawing No:
A4.2.2

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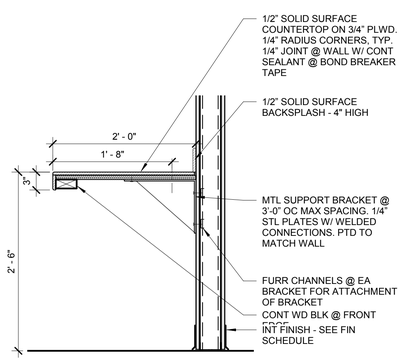
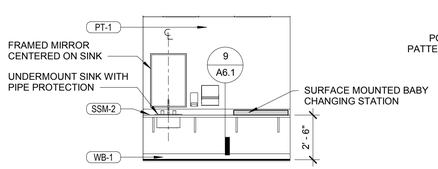
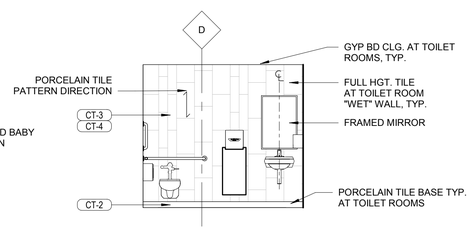


SECTION DETAIL @ PERSONAL ROOM COUNTERTOP

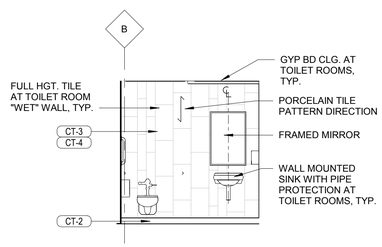
9 A6.1 1" = 1'-0"



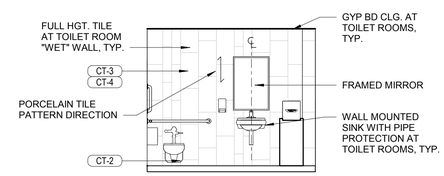
8 A6.1 PERSONAL RM ELEVATION 1/4" = 1'-0"



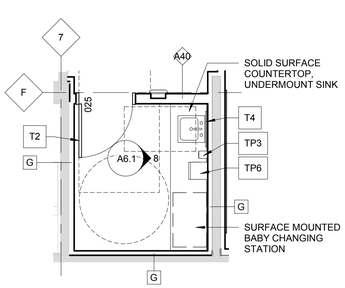
6 A6.1 RESTROOM #216 EAST ELEVATION 1/4" = 1'-0"



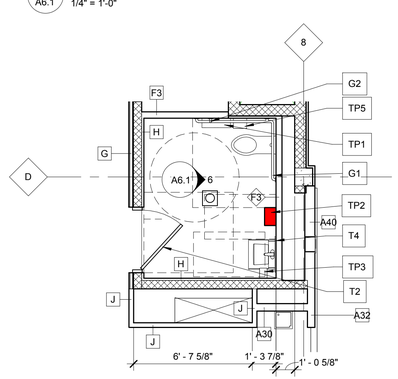
4 A6.1 RESTROOM #101 EAST ELEVATION 1/4" = 1'-0"



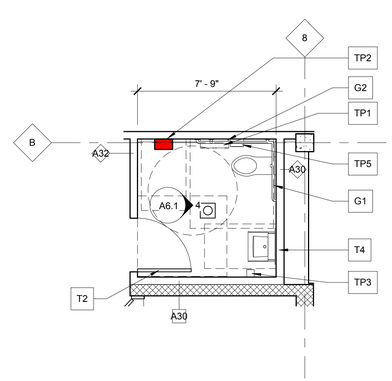
2 A6.1 RESTROOM #015 EAST ELEVATION 1/4" = 1'-0"



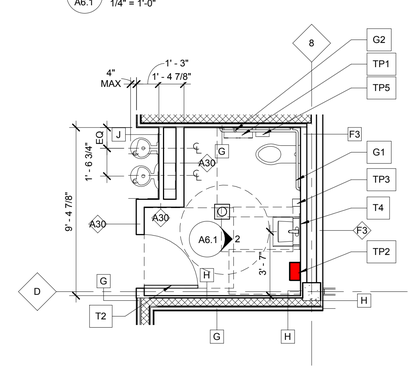
7 A1.0.1 PERSONAL ROOM 1/4" = 1'-0"



5 A1.2.1 RESTROOM #216 1/4" = 1'-0"



3 A1.1.1 RESTROOM #101 1/4" = 1'-0"



1 A1.0.1 RESTROOM #015 1/4" = 1'-0"

FLOOR PLAN LEGEND

- AREA OF WORK
- FLOOR DRAIN
- FEC — FIRE EXTINGUISHER CABINET, RE: AG0.1
- EXISTING WALL
- NEW PARTITION WALL
- NEW DOOR
- EXISTING DOOR

TOILET ACCESSORIES

TP1	TOILET TISSUE DISPENSER	T1	NOT USED
TP2	HAND DRYER WITH WALL PROTECTION	T2	COAT HOOK (ACCESSIBLE)
TP3	SOAP DISPENSER	T3	MOP AND BROOM HOLDER
TP5	SANITARY DISPOSAL	T4	MIRROR 24"X36", RE: AG0.1
TP6	PAPER TOWEL DISPENSER		
G1	TWO-WALL GRAB BAR 42" & 36", RE: AG0.1		
G2	GRAB BAR 18", RE: AG0.1		

NOTES

1. REFER TO SHEET AG0.1 FOR TOILET FIXTURE AND ACCESSORY MOUNTING HEIGHTS.
2. PROVIDE BLOCKING FOR ALL WALL MOUNTED EQUIPMENT. REFER TO SHEET A7.4.2
2. PROVIDE UNDERLAVATORY GUARDS AT EXPOSED PLUMBING AT ALL LAVATORIES.

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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ENLARGED TOILET ROOM PLANS & ELEVATIONS

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale: As indicated

Seal:

Signature:

Drawing No:
A6.1

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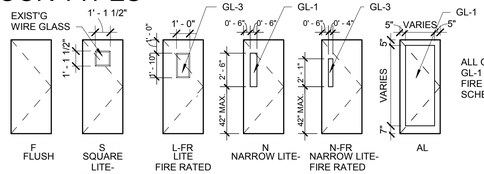
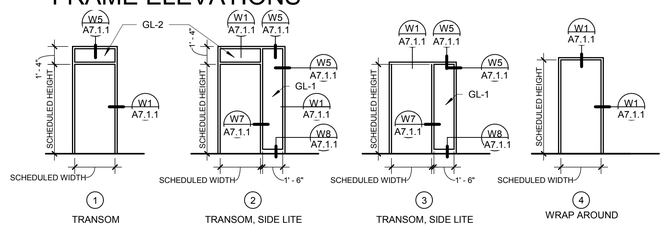
DOOR TYPES



ALL GLASS IN DOORS TO BE GL-1 UNLESS INDICATED AS FIRE RATED IN DOOR SCHEDULE

FRAME ELEVATIONS



DOOR AND INTERIOR OPENING SCHEDULE

NUMBER	FIRE RATING	SIZE WIDTH	SIZE HEIGHT	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME ELEVATION	FRAME MATERIAL	FRAME FINISH	GLASS TYPE	HARDWARE	DETAILS (A7.1.1) HEAD	DETAILS (A7.1.1) JAMB	REMARKS
00 LOWER LEVEL														
001		3' - 0"	6' - 8"	F	WD	ST	3	HM	PTD	GL-1	16.0	4 SIM	4	
005	20 MIN	3' - 0"	6' - 8"	F	WD	ST	3	HM	PTD	GL-3	16.0	4 SIM	4	5
015		3' - 0"	6' - 8"	F	WD	ST	4	HM	PTD		12.0	4 SIM	4	2,5
023	20 MIN	3' - 0"	6' - 8"	F	WD	ST	3	HM	PTD	GL-3	17.0	4 SIM	4	5,8
025		3' - 0"	6' - 8"	F	WD	ST	4	HM	PTD		12.0	4 SIM	4	2,5,6
01 FIRST FLOOR														
101	60 MIN	3' - 0"	6' - 8"	F	WD	ST	4	HM	PTD		18.0	4 SIM	4	2,5
102.1		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	GL-1	10.0	4 SIM	4	
102.2		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	GL-1	10.0	4 SIM	4	
102A	20 MIN	3' - 0"	6' - 8"	N-FR	WD	ST	4	HM	PTD	GL-3	14.0	4 SIM	4	5
102B		3' - 0"	6' - 8"	N	WD	ST	4	HM	PTD		13.0	4 SIM	4	5
108		3' - 0"	7' - 9 1/2"	AL	WD	ST		AL	AL	GL-1	15.0			9
110		3' - 0"	7' - 9 1/2"	AL	WD	ST		AL	AL	GL-1	15.0			9
125		3' - 8 1/2"	7' - 9 1/2"	AL	AL	AL		AL	AL	GL-4	2.0			5,9,11
130A		3' - 0"	7' - 10 3/4"	AL	AL	AL		AL	AL	GL-4	1.0			5,9,10
130B	90 MIN	6' - 0"	6' - 8"	N-FR	HM	PTD	1	HM	PTD	GL-3	4.0	EX-4 SIM	EX-4	1, 4, 7
177B		4' - 2"	7' - 9 1/2"	AL	AL	AL		AL	AL	GL-4	2.1			9,10
190.00	20 MIN	3' - 0"	6' - 8"	N-FR	WD	ST	4	HM	PTD	GL-3	7.0	4 SIM	4	5
190.01		3' - 8 1/2"	7' - 9 25/32"	AL	AL	AL		AL	AL	GL-4	3.0			9
02 SECOND FLOOR														
200		3' - 0"	6' - 8"	F	WD	ST	1	HM	PTD	GL-2	11.0	4 SIM	4	
201		3' - 0"	6' - 8"	F	WD	ST	1	HM	PTD	GL-2	10.0	4 SIM	4	
203		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	GL-1	10.0	4 SIM	4	
204		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	GL-1	10.0	4 SIM	4	
206		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	GL-1	10.0	4 SIM	4	
207		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	GL-1	10.0	4 SIM	4	
209		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	GL-1	10.0	4 SIM	4	
213		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	GL-1	10.0	4 SIM	4	
215		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	GL-2	10.0	4 SIM	4	
216		3' - 4"	7' - 0"	EX-F	WD	ST	EX-4	HM	PTD		12.0	5 SIM	5A	2
219		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	GL-2	10.0	4 SIM	4	
221		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	GL-2	10.0	4 SIM	4	
222		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	GL-2	10.0	4 SIM	4	
224		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	GL-2	10.0	4 SIM	4	
225		3' - 0"	6' - 8"	F	WD	ST	2	HM	PTD	GL-2	10.0	4 SIM	4	
230A	90 MIN	3' - 4"	6' - 8"	L-FR	WD	PTD	1	HM	PTD	GL-3	13.0	5A SIM	5A	4

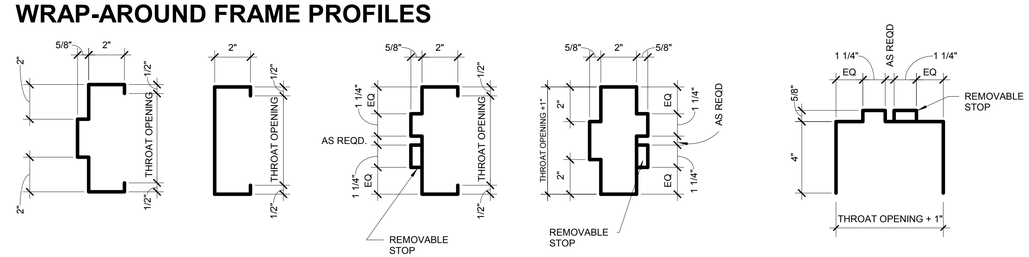
DOOR AND OPENING LEGEND

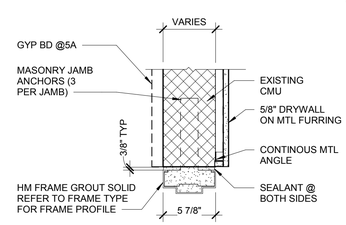
AL	ALUMINUM	PTD	PAINTED	MC	MOLDED COMPOSITE
EX	EXISTING	SPCL	SPECIAL	GL-1	CLEAR SAFETY GLAZING FOR DOORS AND SIDELIGHTS
FF	FACTORY FINISH	SS	STAINLESS STEEL	GL-2	CLEAR FLOAT GLASS
GALV	GALVANIZED	ST	STAINED	GL-3	CLEAR FIRE RATED GLASS - INTERIOR
GL	GLASS	STL	STEEL	GL-4	INSULATED EXTERIOR SAFETY GLAZING
HM	HOLLOW METAL	THK	DOOR THICKNESS	GL-5	INSULATED EXTERIOR GLAZING
PREF	PREFINISHED	WD	WOOD		

REMARKS

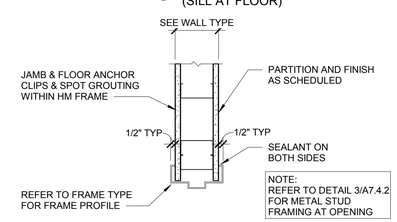
1. EXISTING DOOR TO REMAIN - FILL HOLES IN DOORS WITH WOOD TO MATCH. REFINISH WOOD DOOR, REPAINT GRILLES; INSTALL NEW HARDWARE AND KICKPLATE IF ANY; PROVIDE DOOR FRAME AS SCHEDULED
2. PROVIDE AN ADA COMPLIANT COAT HOOK ON INSIDE FACE OF DOOR
3. PROVIDE 1/4" CLEAR GLASS, TYPE AS SCHEDULED, IN EXISTING TRANSOM AND SIDELIGHT FRAMES
4. REPLACE EXISTING UNRATED FRAME AND DOORS WITH 90 MINUTE H.M. FRAME AND H.M. DOORS. FRAME CONFIGURATION TO MATCH EXISTING WITH TRANSOM. TRANSOM TO BE IN-FILLED WITH 90 MINUTE SOLID PANEL TO MATCH DOOR.
5. SELF-CLOSING OR AUTOMATIC CLOSING
6. PROVIDE VACANCY LOCK INDICATOR.
7. VERIFY EXISTING TO REMAIN DOOR, FRAME, AND/OR GLASS COMPLIES WITH DESIGNATED FIRE RATING.
8. ADJUST SIDE LITE WIDTH AS REQUIRED FOR MASONRY OPENING.
9. COORDINATE WITH STOREFRONT/ CURTAIN WALL SYSTEM.
10. PROVIDE CARD READER
11. PROVIDE INFRASTRUCTURE FOR CARD READER. ALT-1 TO INCLUDE A CARD READER.
12. TRANSOM TO BE IN-FILLED WITH SOLID PANEL TO MATCH DOOR

WRAP-AROUND FRAME PROFILES





5 HM FRAME @ EXIST. MASONRY -JAMB (HEAD SIM.)
1 1/2" = 1'-0"



4 HM DOOR FRAME -JAMB (HEAD SIM)
1 1/2" = 1'-0"

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Scale: As indicated

Seal:

Signature:

Drawing No:
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ROOM FINISH SCHEDULE

ROOM NUMBER	ROOM NAME	FLOORS		WALLS				CEILINGS		REMARKS
		FLOOR	BASE	NORTH	EAST	SOUTH	WEST	MATERIAL	FINISH	
00 LOWER LEVEL										
001	CLASSROOM	RF-2, RF-3, RF-4	WB-1	PT-1	PT-1	GL-10, PT-5, PT-8, SF-1	PT-1	EXPOSED	SF-5	2, 6
005	CLASSROOM	RF-2, RF-3, RF-4	WB-1	PT-1	GL-10, PT-5, PT-8, SF-1	PT-1	PT-1	EXPOSED	SF-5	2, 6
015	RESTROOM	CT-1	CT-2, CT-4	PT-1	CT-3	PT-1	PT-1	GYP BD	PT-3	2, 8
023	CLASSROOM	RF-2, RF-3, RF-4	WB-1	PT-1	GL-10, PT-5, PT-8, SF-1	PT-1	PT-1	EXPOSED	SF-5	2, 6
025	PERSONAL RM	RF-3	WB-1	PT-1	PT-1	PT-1	PT-1	GYP BD	PT-3	5
090.01	CORRIDOR	RF-2, RF-3, RF-6	WB-1, WB-2	PT-1	PT-1, PT-4	PT-1	PT-1	AC-1, AC-2	-	2
090.02	STAIR A	RF-2, EXIST	WB-1, EXIST	PT-1	PT-1	PT-1	PT-1	EXIST	PT-3	1, RF-2 ON LANDING ONLY
01 FIRST FLOOR										
100	OFFICE SUITE	CPT-1	WB-1	PT-1	PT-1	PT-7	PT-1	AC-1	-	3
100.1	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-7	PT-1	AC-1	-	3
100.2	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-7	PT-1	AC-1	-	3
101	RESTROOM	CT-1	CT-2, CT-4	PT-1	CT-3	PT-1	PT-1	GYP BD	PT-3	2, 8
108	MEETING	CPT-1	WB-1	PT-1	PT-1	PT-1	WC-1	AC-1	-	
109	CORRIDOR	CPT-1	WB-1	PT-1	PT-1	-	PT-4	EXPOSED	SF-5	
110	MEETING	CPT-1	WB-1	PT-1	PT-1	PT-1	WC-1	AC-1	-	
114	JANITOR'S CLOSET	RF-1	WB-1	PT-1	PT-1	PT-1	PT-1	EXIST	PT-3	
123	BREAK AREA	RF-3	WB-1	-	-	-	CT-5, PT-8	GYP BD	PT-8	5
125	LOUNGE	CPT-1	WB-1	PT-4	PT-1	PT-4, WC-2, WC-3	PT-4	EXPOSED	SF-5	2, 3
179	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-1	PT-1	AC-1	-	
190.01	CORRIDOR	RF-2, RF-5, RF-6	WB-1	PT-1	PT-4	PT-1	PT-1	EXPOSED	-	2
190.02	STAIR A	RF-2, EXIST	WB-1, EXIST	PT-1	PT-1	PT-1	PT-1	EXIST	PT-3	1, RF-2 ON LANDING ONLY
190.03	CORRIDOR	RF-2, RF-3, RF-5, RF-6	WB-1	PT-1, PT-4	PT-1, PT-4	PT-1	PT-1	EXPOSED	SF-5	2
02 SECOND FLOOR										
200	STORAGE	RF-1	WB-1	PT-1	PT-1	PT-1	PT-1	AC-1	-	7
201	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-6	PT-1	AC-1	-	3,7
203	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-6	PT-1	AC-1	-	3
204	OFFICE	CPT-1	WB-1	PT-6	PT-1	PT-1	PT-1	AC-1	-	3
206	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-6	PT-1	AC-1	-	3
207	OFFICE	CPT-1	WB-1	PT-6	PT-1	PT-1	PT-1	AC-1	-	3
209	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-6	PT-1	AC-1	-	3
213	OFFICE	CPT-1	WB-1	PT-6	PT-1	PT-1	PT-1	AC-1	-	3
214	JANITOR'S CLOSET	RF-1	WB-1	PT-1	PT-1	PT-1	PT-1	EXIST	PT-3	
215	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-6	PT-1	AC-1	-	3
216	RESTROOM	CT-1	CT-2, CT-4	PT-1	CT-3	PT-1	PT-1	GYP BD	PT-3	2, 8
219	OFFICE	CPT-1	WB-1	PT-6	PT-1	PT-1	PT-1	AC-1	-	3
221	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-6	PT-1	AC-1	-	3
222	OFFICE	CPT-1	WB-1	PT-6	PT-1	PT-1	PT-1	AC-1	-	3
224	OFFICE	CPT-1	WB-1	PT-1	PT-1	PT-6	PT-1	AC-1	-	12
225	OFFICE	CPT-1	WB-1	PT-6	PT-1	PT-1	PT-1	AC-1	-	3
290.01	CORRIDOR	RF-2, RF-3, RF-4, RF-5	WB-1, WB-2	PT-1, PT-4	PT-1, PT-4	PT-1, PT-4	PT-1, PT-4	AC-1, AC-2, EXPOSED	SF-5	2,3
290.02	STAIR A	RF-2, EXIST	WB-1, EXIST	PT-1	PT-1	PT-1	PT-1	EXIST	PT-3	1, RF-2 ON LANDING ONLY

GENERAL NOTES

A. ALL FINISHES SHALL BE PROVIDED AS SPECIFIED. NO SUBSITUTIONS, UNLESS NOTED OTHERWISE.

B. ANY NOTE REFERRING TO "MATCH EXISTING" REQUIRES EXISTING FINISHES AND DETAILS TO BE REPLICATED IN FULL UPON COMPLETION OF THE WORK IN THE GIVEN AREA.

C. DISCREPANCIES IN FINISH DESIGNATIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ARCHITECT FOR RESELECTION OR CLARIFICATION.

D. WIREWAYS, ACCESS PANELS, MECHANICAL DEVICES, ETC. SHALL BE FINISHED TO MATCH ADJACENT SURFACE UNLESS NOTED OTHERWISE.

E. ALL SWITCH PLATES, OUTLET COVERS, OUTLETS AND SWITCHES TO MATCH WAYNE STATE UNIVERSITY STANDARD (STAINLESS) UNLESS NOTED OTHERWISE.

F. PATCH AND REPAIR ALL EXISTING FINISHES/SURFACES THAT MAYBE AFFECTED BY NEW CONSTRUCTION.

G. REFER TO FINISH PLANS, DRAWING SHEETS SERIES A7.7, FOR LOCATION OF CORNER GUARDS, END GUARDS AND ALL WALL PROTECTION.

H. TOILET ROOM SINK WALLS TO RECEIVE CERAMIC WALL TILE. REFER TO TILE PATTERN LOCATED ON SHEET A6.1.

I. DIFFUSERS LOCATED IN AC-1 CEILING APPLICATIONS TO MATCH WHITE FINISH OF CEILING SUSPENSION SYSTEM.

J. ALL WINDOW SIZES TO BE VERIFIED IN FIELD TO COORDINATE DIMENSIONS FOR THE WINDOW TREATMENT SIZES.

K. ALL WALLS AND CEILING AFFECTED BY WINDOW REPLACEMENT TO BE PATCHED AND PAINTED. ENTIRE WALL TO BE PAINTED.

FLOORING NOTES

F1. REFER TO FINISH PLANS, DRAWING SERIES A7.7 FOR FLOOR PATTERN PLANS.

F2. EXTEND FLOORING INTO TOE SPACES, UNDER CASEWORK AND KNEE SPACES.

F3. ALL GROUT JOINTS TO ALIGN UNLESS NOTED OTHERWISE. CONTRACTOR TO SUBMIT PROPOSED GROUT/TILE LAYOUT FOR ARCHITECT REVIEW/APPROVAL.

F4. PREPARE ALL FLOORING SUBSTRATES AS REQUIRED TO RECEIVE NEW FLOORING MATERIAL. MAKE ALL TRANSITIONS FLUSH AND CLEAN AS REQUIRED TO RECEIVE NEW FLOORING MATERIAL.

F5. INSTALL FLOORING UNDER ALL FLOOR MOUNTED EQUIPMENT.

F6. FLOORING CONTRACTOR TO SUBMIT SEAMING PATTERN TO ARCHITECT FOR ACCEPTANCE PRIOR TO INSTALLATION.

F7. TERMINATE FLOORING MATERIAL AT CENTER OF DOOR WHERE ADJACENT FLOOR FINISH AND/OR COLOR IS DISSIMILAR UNLESS OTHERWISE NOTED.

F8. TRANSITION/REDUCER STRIPS SHALL BE USED AT MATERIAL HEIGHT DIFFERENCES AND DISSIMILAR MATERIALS, UNLESS OTHERWISE NOTED.

PAINT NOTES

P1. CEILINGS SCHEDULED TO RECEIVE PAINT SHALL RECEIVE A FLAT FINISH UNLESS OTHERWISE NOTED.

P2. WET AREA CEILINGS TO RECEIVE PAINT SHALL RECEIVE SEMI-GLOSS FINISH (E.G. TOILET ROOMS).

P3. WALLS SCHEDULED TO RECEIVE PAINT SHALL RECEIVE AN EGGSHELL FINISH UNLESS OTHERWISE NOTED.

P4. WET AREAS SHCEDULED TO RECEIVE PAINT SHALL RECEIVE A SEMI-GLOSS FINISH (E.G. TOILET ROOMS, AND WALLS BEHIND DRINKING FOUNTAINS) UNLESS OTHERWISE NOTED.

P5. ALL DOORS AND FRAMES TO RECEIVE PAINT SHALL RECEIVE SEMI-GLOSS FINISH. ALL DOORS, DOOR FRAMES AND WINDOW FRAMES TO BE PT-2.

P6. TYPICAL CONDITIONS HAVE BEEN INDICATED ON DRAWINGS BUT DO NOT EXPRESS ALL CONDITIONS. THE INDICATION OF PAINTING DOES NOT PRECLUDE PAINTING ON OTHER AREAS NOT INDICATED ON DRAWINGS.

P7. PROVIDE ACCENT PAINT COLOR MOCKUP FOR ARCHITECT AND OWNER APPROVAL OF ACCENT PAINT COLORS AND LOCATIONS.

P8. REFER TO FINISH PLANS, DRAWING SERIES A7.7 FOR LOCATIONS OF ACCENT PAINT COLORS.

P9. ALL GYPSUM BOARD CEILINGS TO BE PAINTED PT-3 UNLESS OTHERWISE NOTED. REFER TO CEILING PLANS DRAWING SHEETS AND ROOM FINISH SCHEDULE FOR ACCENT CEILING PAINT LOCATIONS.

P10. SURFACES SCHEDULED TO RECEIVE PAINT SHALL RECEIVE PAINT BEHIND SCREENS, TACK BOARDS, MARKER BOARDS AND OTHER APPLIED SURFACES.

P.11 ALL EXPOSED MEP TO BE PAINTED PT-3.

P.12 LIFE SAFETY PIPING TO BE COLOR COMPLIANT (RED) PER AHJ REQUIREMENTS.

FINISH REMARK NOTES

1. NEW FLOORING IN STAIRWELLS. EXISTING TERRAZZO TREADS, RISERS, AND INTERMEDIATE LANDINGS TO REMAIN.

2. REFER TO FINISH PLANS, ELEVATIONS AND 3D VIEWS FOR ACCENT PAINT AND FEATURE WALL LOCATIONS.

3. WINDOW TREATMENT TO BE WT-1.

4. REINSTALL SALVAGED WINDOW TREATMENTS.

5. REFER TO CASEWORK NOTES FOR CASEWORK & COUNTERTOP INFORMATION.

6. MARKER BOARDS GL-10 AS INDICATED ON ELEVATIONS.

7. EXISTING BRICK WALLS TO REMAIN, UNLESS NOTED OTHERWISE.

8. FULL HEIGHT TILE ON WET WALLS.

9. EXPOSED PIPING PAINTED PT-3.

10. UTILIZE ACCESSIBLE CEILING AS APPLICABLE

11. ALTERNATE #3

12. PROVIDE ACOUSTICAL BATT INSULATION ABOVE CEILING

CASEWORK/ MILLWORK NOTES

1. ALL BREAK AREA CABINETS SHALL BE 24" DEEP WITH A 25" DEEP COUNTER, UNLESS NOTED OTHERWISE.

2. REFER TO INTERIOR ELEVATIONS FOR CABINET WIDTHS AND TYPES.

3. PROVIDE WALL REINFORCING FOR ALL CASEWORK, MILLWORK, SHELVES, WALL-MOUNTED EQUIPMENT, GRAB BARS, AND TOILET ACCESSORIES. SEE SHEET A7.4.2

4. SEE ENLARGED PLANS AND INTERIOR ELEVATIONS FOR COUNTERTOP MATERIALS.

5. CASEWORK BASIS OF DESIGN:
   MANUF: AYA KITCHENS & BATHS
   DOOR TYPE: TRIBECA, FULL OVERLAY PANEL
   DRAWER TYPE: TRIBECA
   COLOR: KHIVA
   FINISH: TEXTURED
   HARDWARE: RICHELIEU, CONTEMPORARY METAL PULL 7470, 6-5/16" WIDE, #BP7470160900
   HARDWARE FINISH: MATTE BLACK
   COUNTERTOP: SSM-2 (BREAK AREA & PERSONAL ROOM)

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Structural Engineer: Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

WAYNE STATE UNIVERSITY

Client
WAYNE STATE UNIVERSITY FP&M
5454 Cass Avenue
Detroit, Michigan

Key Plan:

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ROOM FINISH SCHEDULE

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale: 12" = 1'-0"

Seal:

Signature:

Drawing No:
A7.2.1

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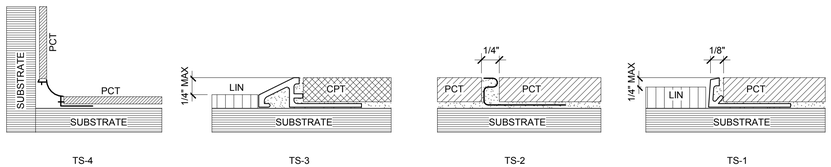
MATERIAL INDEX - Noteblocks

TAG	MATERIAL	MANUFACTURER / SUPPLIER	DESCRIPTION	SPEC SECTION	NOTES
AC-1	ACOUSTICAL CEILING	ARMSTRONG	STYLE: ULTIMA TEGULAR 1911HRC SIZE: 2' X 2' X 3/4" GRID: 15/16" TRIM: AXIOM CLASSIC 4"	095113	4"TRIM PIECE AT EXPOSED EDGES
AC-2	ACOUSTICAL CEILING	ARMSTRONG	STYLE: ULTIMA TEGULAR 1911HRC SIZE: 2' X 2' X 3/4" GRID: 15/16" TRIM: AXIOM PROFILED	095113	KNIFE KNIFE EDGE TRIM AT EXPOSED EDGES. TRIM ENDS AND PAINT EXPOSED EDGES.EDGE TRIM AT EXPOSED EDGES. TRIM ENDS AND PAINT EXPOSED EDGES
AC-3	ACOUSTICAL CEILING	ARMSTRONG	STYLE: ULTIMA TEGULAR 1917 SIZE: 1' X 2' X 3/4" GRID: 15/16" TRIM: AXIOM PROFILEDSTYLE: ULTIMA TEGULAR 1911HRC SIZE: 2' X 2' X 3/4" GRID: 15/16" TRIM: AXIOM PROFILED	095113	KNIFE EDGE TRIM AT EXPOSED EDGES. TRIM ENDS AND PAINT EXPOSED EDGES.
CLG-1	DECORATIVE CEILING PANEL	USG CEILINGS PLUS	STYLE: ILLUSIONS; COLOR: SARANTE - OAK LINE S-22; SIZE & TRIM: CUSTOM	095436	WOOD FEATURE CEILING - AT (2) MILLWORK BENCHES
CPT-1	CARPET TILE	MANNINGTON COMMERCIAL	STYLE: STOCK BRIGHTS COLOR: CUSTOM M36638-001A SIZE: 24" X 24" BACKING: INFINITI MODULAR (6M) INSTALLATION: BRICK ASHLAR	096813	PERSONAL ROOM; BREAKOUT ROOMS; LOUNGE; OFFICE SUITE & PRIVATE OFFICES. ORDER 10% ATTIC STOCK AT THIS TIME (CONFIRM WITH OWNER).
CT-1	PORCELAIN TILE	CROSSVILLE / VIRGINIA TILE	STYLE: SHADES; COLOR: AV247 HAZE; SIZE: 24" X 24" NOMINAL; FINISH: UNPOLISHED; GROUT: TEC IN-COLOR, GROUT COLOR: 935 SILHOUETTE	093013	TOILET ROOM FLOOR TILE; REFER TO FINISH PLANS
CT-2	PORCELAIN TILE	CROSSVILLE / VIRGINIA TILE	STYLE: SHADES; COLOR: AV247 HAZE; SIZE: 4" X 24" NOMINAL BASE; FINISH: UNPOLISHED; GROUT: TEC IN-COLOR, GROUT COLOR: 935 SILHOUETTE	093013	TOILET ROOM BASE TILE
CT-3	PORCELAIN TILE	CROSSVILLE / VIRGINIA TILE	STYLE: SHADES; COLOR: AV245 CLAY; SIZE: 12" X 24" NOMINAL; FINISH: UNPOLISHED; GROUT: TEC IN-COLOR, GROUT COLOR: 973 WARM TAUPE	093013	TOILET ROOM WALL TILE; REFER TO ELEVATIONS FOR PATTERN
CT-4	PORCELAIN TILE	CROSSVILLE / VIRGINIA TILE	STYLE: SHADES; COLOR: SV245 CLAY; SIZE: 6" X 24" NOMINAL; FINISH: HONED; GROUT: TEC IN-COLOR, GROUT COLOR: 973 WARM TAUPE	093013	TOILET ROOM ACCENT WALL TILE; REFER TO ELEVATIONS FOR PATTERN
CT-5	CERAMIC WALL TILE	CROSSVILLE / VIRGINIA TILE	STYLE: HANDWRITTEN; COLOR: INKWELL; SIZE: 3" x 12" FIELD TILE; FINISH: GLOSS; GROUT: TEC IN-COLOR, GROUT COLOR: 941 RAVEN; INSTALLATION: 1/3 OFFSET RUNNING BOND	093013	KITCHENETTE BACKSPLASH; REFER TO ELEVATIONS
GL-10	WRITABLE & MAGNETIC GLASS	CLARUS GLASSBOARDS	STYLE: WALL2WALL GLASS; COLOR: SMOOTH WHITE CBC-116; SIZE: TBD. FOUR GLASS PIECES PER TEACHING WALL, SEAMS TO ALIGN WITH MILLWORK PANEL REVEALS; REFER TO INTERIOR ELEVATION.	101100	REFER TO GENERAL FINISH NOTES, FINISH PLANS, AND ELEVATIONS
PL-1	PLASTIC LAMINATE	USG CEILINGS PLUS	STYLE: SARANTE LAMINATE; COLOR: OAK LINE S-22 (LIGHT OAK)	064116	MILLWORK BENCHES; REFER TO ELEVATIONS AND DETAILS
PL-2	PLASTIC LAMINATE	USG CEILINGS PLUS	STYLE: SARANTE LAMINATE; COLOR: DARK OAK S-17	064116	MILLWORK BENCHES; REFER TO ELEVATIONS AND DETAILS
PT-1	PAINT	SHERWIN WILLIAMS	COLOR: SW 7003 TOQUE WHITE; GENERAL NEUTRAL WALL PAINT	099123	REFER TO GENERAL FINISH NOTES, FINISH PLANS, AND ELEVATIONS
PT-2	PAINT	SHERWIN WILLIAMS	COLOR: SW 7019 GAUNTLET GRAY	099123	DOORS & DOOR FRAMES; REFER TO GENERAL FINISH NOTES, FINISH PLANS, AND ELEVATIONS
PT-3	PAINT	SHERWIN WILLIAMS	COLOR: SW 7007 CEILING BRIGHT WHITE; GENERAL NEUTRAL CEILING PAINT	099123	REFER TO GENERAL FINISH NOTES, FINISH PLANS, AND ELEVATIONS
PT-4	PAINT	SHERWIN WILLIAMS	COLOR: SW 7018 DOVETAIL	099123	REFER TO GENERAL FINISH NOTES, FINISH PLANS, AND ELEVATIONS
PT-5	PAINT	SHERWIN WILLIAMS	COLOR: SW 2865 CLASSICAL YELLOW	099123	REFER TO GENERAL FINISH NOTES, FINISH PLANS, AND ELEVATIONS
PT-6	PAINT	SHERWIN WILLIAMS	COLOR: SW 6355 TRUEPENNY	099123	REFER TO GENERAL FINISH NOTES, FINISH PLANS, AND ELEVATIONS
PT-7	PAINT	SHERWIN WILLIAMS	COLOR: SW 0015 GALLERY GREEN	099123	REFER TO GENERAL FINISH NOTES, FINISH PLANS, AND ELEVATIONS
PT-8	PAINT	SHERWIN WILLIAMS	COLOR: SW 6994 GREENBLACK	099123	BREAK AREA CEILING & SOFFIT (WRAPPED VERTICAL & HORIZONTAL); REFER TO GENERAL FINISH NOTES, FINISH PLANS, AND ELEVATIONS
PT-9	PERFORMANCE SERIES TINTABLE WOOD STAIN	MINWAX	COLOR: TO MATCH USG CEILINGS WALLFORMS IN SARANTE DARK OAK	TBD	TBD
RF-1	RESILIENT TILE FLOORING	ARMSTRONG	STYLE: IMPERIAL TEXTURE STANDARD EXCELON; COLOR: 51899 COOL WHITE; SIZE: 12" X 12"	096519	SERVICE AREAS; REFER TO FINISH PLANS
RF-2	RESILIENT TILE FLOORING - LINOLEUM	FORBO	STYLE: MARMOLEUM COMPOSITE TILE; COLOR: MCT-3050 WHITE BIRCH; SIZE: 13" X 13'	096543	LIGHT NEUTRAL; REFER TO FINISH PLANS
RF-3	RESILIENT TILE FLOORING - LINOLEUM	FORBO	STYLE: MARMOLEUM COMPOSITE TILE; COLOR: MCT-629 EIGER; SIZE: 13" X 13"	096543	DARK NEUTRAL; REFER TO FINISH PLANS
RF-4	RESILIENT TILE FLOORING - LINOLEUM	FORBO	STYLE: MARMOLEUM COMPOSITE TILE; COLOR: MCT-795 BUTTER; SIZE: 13" X 13"	096543	YELLOW; REFER TO FINISH PLANS
RF-5	RESILIENT TILE FLOORING - LINOLEUM	FORBO	STYLE: MARMOLEUM COMPOSITE TILE; COLOR: MCT-3233 SHITAKE; SIZE: 13" X 13"	096543	RUST; REFER TO FINISH PLANS
RF-6	RESILIENT TILE FLOORING - LINOLEUM	FORBO	STYLE: MARMOLEUM COMPOSITE TILE; COLOR: MCT-3222 JADE; SIZE: 13" X 13'	096543	GREEN; REFER TO FINISH PLANS
SF-1	DECORATIVE WALL PANEL	USG CEILINGS PLUS	STYLE: WALLFORMS; SIZE: REFER TO ELEVATIONS AND DETAILS; COLOR: SARANTE - OAK LINE S-22	098447	WOOD FEATURE WALL - AT BUILT-IN BENCHES
SF-2	DECORATIVE WALL PANEL	USG CEILINGS PLUS	STYLE: WALLFORMS; SIZE: REFER TO ELEVATIONS AND DETAILS; COLOR: POWDER COAT TO MATCH SW 2865 CLASSICAL YELLOW	098447	ACCENT FEATURE WALL - AT BENCHES - YELLOW
SF-3	DECORATIVE WALL PANEL	USG CEILINGS PLUS	STYLE: WALLFORMS; SIZE: REFER TO ELEVATIONS AND DETAILS; COLOR: POWDER COAT TO MATCH SW 6355 TRUEPENNY	098447	ACCENT FEATURE WALL - AT BENCHES - RUST
SF-4	DECORATIVE WALL PANEL	NOT USED	NOT USED		NOT USED
SF-5	ACOUSTIC SPRAY-ON	INTERNATIONAL CELLULOSE CORPORATION	STYLE: K-13 SPRAY; COLOR: WHITE	072100	CLASSROOM CEILINGS
SSM-1	SOLID SURFACE MATERIAL	WILSONART	COLOR: GARNET GLITZ 9109CS	123661	SEAT ON BUILT-IN BENCHES
SSM-2	SOLID SURFACE MATERIAL	WILSONART	COLOR: FROSTY WHITE 1573SL	123661	COUNTERTOPS & MILLWORK TABLE; WINDOW SILLS
TS-1	TRANSITION STRIP	SCHLUTER	STYLE: SCHIENE; FINISH: AE SATIN ANODIZED ALUMINUM	093013	PORCELAIN TILE TO LINOLEUM TILE
TS-2	TRANSITION STRIP	SCHLUTER	STYLE: DECO FINISH: AE SATIN ANODIZED ALUMINUM	093013	PORCELAIN TILE TO PORCELAIN TILE - ACCENT STRIP
TS-3	TRANSITION STRIP	SCHLUTER	STYLE: RENO-U FINISH: AE SATIN ANODIZED ALUMINUM	093013	LINOLEUM TO CARPET
TS-4	TRANSITION STRIP	SCHLUTER	STYLE: DILEX-AHK FINISH: ATGB BRUSHED NICKEL ANODIZED ALUMINUM	093013	COVE - PORCELAIN TILE TO PORCELAIN TILE
WB-1	WALL BASE	JOHNSONITE	STYLE: 4" COVE RUBBER BASE; COLOR: GREY 48	096513	GENERAL WALL BASE
WB-2	WALL BASE	JOHNSONITE	STYLE: MW-XX-F REVEAL MILLWORK RUBBER BASE; COLOR GREY 48	096513	WALL BASE AT BUILT-IN BENCHES AND MILLWORK TEACHING WALLS
WC-1	WALLCOVERING	ARC COM	TYPE: 20 OZ. TYPE II VINYL WALLCOVERING; BACKING: RECYCLED NON-WOVEN; STYLE: ABSTRACT ACW-53410; COLOR: BLACKOUT 10; SIZE: 54" W ROLL	097200	LEVEL 01 BREAK OUT ROOMS; REFER TO FINISH PLANS AND ELEVATIONS
WC-2	WALLCOVERING	ARC COM	TYPE: 20 OZ. TYPE II VINYL WALLCOVERING; BACKING: RECYCLED NON-WOVEN; STYLE: ABSTRACT ACW-53404; COLOR: FOGGY 4; SIZE: 54" W ROLL	097200	LEVEL 01 LOUNGE; REFER TO FINISH PLANS AND ELEVATIONS
WC-3	WRITABLE WALLCOVERING	DESIGNTEX	TYPE: 3M DI-NOC WHITE DRY-ERASE WALLCOVERING; BACKING: RECYCLED NON-WOVEN; STYLE: DRY-ERASE / WRITABLE	097200	LEVEL 01 LOUNGE; REFER TO FINISH PLANS AND ELEVATIONS
WP-1	WALL PROTECTION	CONSTRUCTION SPECIALTIES (CS)	STYLE: ACROVYN 4000 RIGID WALLCOVERING SHEET; COLOR: MISSION WHITE 933; SIZE: CUSTOM TO COLUMN SIZE, CONTRACTOR TO V.I.F.		
WP-2	WALL PROTECTION	CONSTRUCTION SPECIALTIES (CS)	STYLE: ACROVYN 4000 CORNER GUARD; COLOR: MISSION WHITE 933; SIZE: 6' HIGH, START ABOVE WALL BASE		
WT-1	WINDOW TREATMENT	MECHOSHADE	STYLE: ECOVEIL 1550; COLOR: 1569 SILVER BIRCH; OPENNESS: 3%	122413	ALL OFFICES, PUBLIC SPACES, AND LOUNGE, UNLESS NOTED OTHERWISE



1 TRANSITION DETAILS
12" = 1'-0"

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Structural Engineer: Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

WAYNE STATE UNIVERSITY

Client
WAYNE STATE UNIVERSITY
FP&M
5454 Cass Avenue
Detroit, Michigan

Key Plan:

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
MATERIAL INDEX

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale: 12" = 1'-0"

Seal:

Signature:

Drawing No:
A7.2.2

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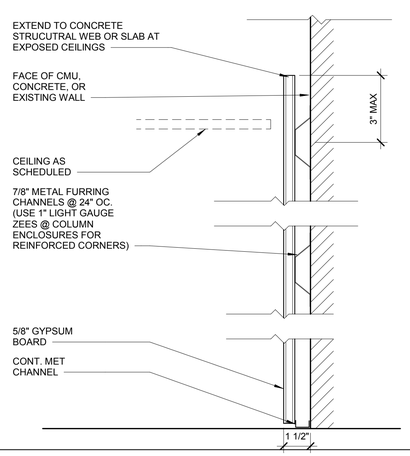
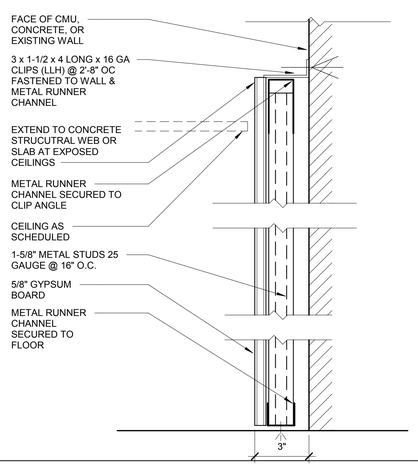
TYPE "H" - GYPSUM BOARD FURRING



TYPE "G" - GYPSUM BOARD FURRNING ON METAL STUD



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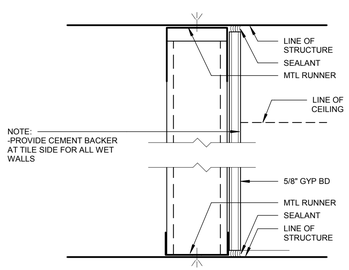
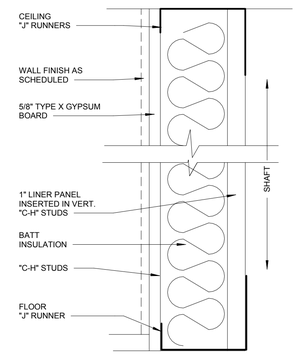


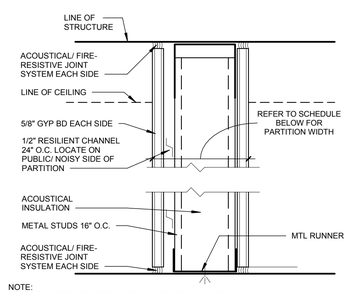
FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
F3	F3	3 5/8"	4 1/4"	NON-RATED	N/A	N/A	

TYPE "J" - 1-HR RATED SHAFTWALL



FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
J	J	2 1/2"	3 1/8"	ONE HOUR	U415	N/A	24" O.C. STUD SPACING

TYPE "A"



NOTE:
-PROVIDE CEMENT BACKER AT TILE SIDE FOR ALL WET WALLS

FLOOR PLAN DESIGNATION NO SOUND ATTENUATION	FLOOR PLAN DESIGNATION WITH SOUND ATTENUATION	STUD SIZE	PART WIDTH	FIRE RATING	UL LISTING	STC: NO SOUND / WITH SOUND	REMARKS
A30	A30	3 5/8"	5 3/8"	NON-RATED	N/A	40 / 54 W/3" SAB	
A32	A32	3 5/8"	5 3/8"	ONE HOUR	U419	40 / 54 W/3" SAB	
A40	A40	5 1/2"	6 3/4"	NON-RATED	N/A		

FRAMING NOTES

A. ALL NON-LOAD-BEARING METAL WALL FRAMING SHALL BE 20 GAUGE UNLESS OTHERWISE NOTED BELOW IN NOTES B, C, D, E AND F. REFER TO SPECIFICATION SECTIONS 09260 AND 05400 FOR ADDITIONAL REQT'S

B. PROVIDE 20 GAUGE METAL WALL FRAMING IN LIEU OF 25 GAUGE METAL FRAMED WALLS WITH ONE LAYER OF 5/8" GYPSUM WALL BOARD ON EACH SIDE THAT EXCEED THE HEIGHT LIMITS AS LISTED BELOW:
2 1/2" METAL STUDS: 10'-9"
3 5/8" METAL STUDS: 14'-0"
4" METAL STUDS: 15'-0"
6" METAL STUDS: 20'-0"

C. ADDITIONALLY, PROVIDE 20 GAUGE METAL WALL FRAMING AT THE FOLLOWING LOCATIONS:
1. DOUBLE STUD JAMB ASSEMBLIES AT OPENINGS
2. FIRST STUD IN THE PARTITION BEYOND THE DOUBLE STUD JAMB ASSEMBLY. LOCATE STUD 6" FROM DOUBLE STUD ASSEMBLY
3. STUDS TO WHICH CEMENTITIOUS BACKER UNITS, SPECIFIED IN SECTION 09300, ARE INSTALLED FOR WET AREAS
4. STUDS TO WHICH ABUSE-RESISTANT AND HIGH-IMPACT GYPSUM WALL PANELS ARE ATTACHED
5. STUDS TO WHICH WALL MOUNTED EQUIPMENT, INCLUDING OWNER FURNISHED EQUIPMENT, IS FASTENED
6. STUDS INSTALLED FOR OPENING HEADS BETWEEN DOUBLE STUD JAMB ASSEMBLIES
7. STUD INFILL AND SILL TRACK BELOW WINDOW OPENINGS

D. PROVIDE 20 GAUGE METAL WALL FRAMING IN LIEU OF 25 GAUGE METAL FRAMED WALLS WITH TWO LAYERS OF 5/8" GYPSUM WALL BOARD ON EACH SIDE THAT EXCEED THE HEIGHT LIMITS AS LISTED BELOW:
2 1/2" METAL STUDS: 11'-9"
3 5/8" METAL STUDS: 14'-9"
4" METAL STUDS: 15'-9"
6" METAL STUDS: 20'-0"

E. PROVIDE 16 GAUGE METAL WALL FRAMING (REFER TO SPECIFICATION SECTION 05400) IN LIEU OF 20 GAUGE METAL FRAMED WALLS WITH ONE LAYER OF 5/8" GYPSUM WALL BOARD ON EACH SIDE THAT EXCEED THE HEIGHT LIMITS AS LISTED BELOW:
2 1/2" METAL STUDS: 12'-0"
3 5/8" METAL STUDS: 15'-7"
4" METAL STUDS: 16'-10"
6" METAL STUDS: 22'-10"

F. PROVIDE 16 GAUGE METAL WALL FRAMING (REFER TO SPECIFICATION SECTION 05400) IN LIEU OF 20 GAUGE METAL FRAMED WALLS WITH TWO LAYERS OF 5/8" GYPSUM WALL BOARD ON EACH SIDE THAT EXCEED THE HEIGHT LIMITS AS LISTED BELOW:
2 1/2" METAL STUDS: 14'-0"
3 5/8" METAL STUDS: 17'-8"
4" METAL STUDS: 18'-11"
6" METAL STUDS: 24'-11"

NOTES

1. PARTITIONS ARE DISTINGUISHED ON FLOOR PLANS BY SYMBOL DESIGNATION, GRAPHIC DESIGNATION OR A COMBINATION OF BOTH DESIGNATIONS.

2. THERE ARE TWO TYPES OF SYMBOL DESIGNATIONS, ONE FOR PARTITIONS NOT REQUIRING SOUND ATTENUATION AND ANOTHER FOR PARTITIONS WHICH REQUIRE SOUND ATTENUATION. REFER TO PARTITION MATRICES FOR SOUND ATTENUATION BLANKET (SAB) MINIMUM THICKNESS FOR STC INDICATED.

X# — SYMBOL DESIGNATIONS (NO SOUND ATTENUATION)

X# — SYMBOL DESIGNATION (WITH SOUND ATTENUATION)

3. THERE ARE TWO SYMBOL DESIGNATION SYSTEMS USED. THE FIRST SYSTEM CONSISTS OF TWO AND THREE CHARACTERS, THE FIRST CHARACTER IS A LETTER INDICATING THE PARTITION TYPE. THE SECOND CHARACTER IS NUMERIC INDICATING THE STUD OR CMU WIDTH. REFER TO LEGEND BELOW.

NUMERIC CHARACTER	STUD WIDTH	CMU WIDTH
1	1 5/8"	
2	2 1/2"	
3	3 5/8"	
4	4"	3 5/8"
6	6"	5 5/8"
8		7 5/8"
12		11 5/8"

4. IF NO SYMBOL DESIGNATION IS PROVIDED, THE STUD SIZE WILL BE 3 5/8".

5. "LINE OF STRUCTURE" INDICATED FOR EACH PARTITION IS DIAGRAMMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY. PARTITIONS EXTENDING TO STRUCTURE TO EXTEND TO TOP MOST ELEMENT OF STRUCTURE (SLAB OR WEB JOIST).

6. ALL DIMENSIONS ARE FROM FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD. REFER TO PARTITION MATRICES FOR PARTITION WIDTH DIMENSIONS UNLESS INDICATED TO BE SHOWN ON PLAN.

7. FIRE RESISTANT RATINGS ARE TO SURROUND ALL OPENINGS IN RATED PARTITIONS.

8. FIRE RESISTANT PARTITIONS SHALL EXTEND AND SEAL TO INSIDE FACE OF EXTERIOR SHEATHING, INCLUDING EXTENSIONS THROUGH SOFFITS.

9. FOR PARTITIONS INDICATED TO RECEIVE SOUND ATTENUATION BLANKETS (SAB), EXTEND SAB TO FULL HEIGHT OF PARTITION UNLESS OTHERWISE INDICATED. FLOOR TRACK TO BE SET IN A CONT BED OF SEALANT. EXTEND WALL UP TO SLAB. CUT WALL TIGHT TO CONCRETE WEB JOISTS (TYPICAL AT ALL FULL HEIGHT PARTITIONS). PROVIDE SEALANT AROUND ALL PENENTRATIONS.

10. SEALANT:
1. FIRE RESISTANCE RATED PARTITIONS SHALL USE RATED FIRE/SMOKE FIRE RESISTANT FILL MATERIAL IN CONJUNCTION WITH AN APPROPRIATE RATED FIRE/SMOKE FIRE STOPPING SYSTEM.
2. NON-RATED PARTITIONS SHALL USE ACOUSTICAL SEALANT.

11. INSULATION: - HEAD CONDITIONS AT FLOOR/ROOF DECK
1. FIRE RESISTANCE RATED PARTITIONS SHALL USE MINERAL WOOL INSULATION.
2. NON-RATED PARTITIONS REQUIRING SOUND ATTENUATION SHALL USE SOUND ATTENUATION BLANKETS (SAB).
3. PROVIDE FULL THICKNESS INSULATION INSIDE ALL STUD BOX BEAMS AND HEADERS WHICH OCCUR IN WALLS WITH SOUND ATTENUATION.

12. EACH PARTITION SHOWN ON THE DRAWINGS TO HAVE A FIRE AND SMOKE RESISTANT RATING SHALL BE IDENTIFIED AS SUCH WITH A LABEL ABOVE THE CEILING ON EACH SEGMENT OF THE WALL AND 6' - 0" OC MAX EACH SIDE.

13. REFER TO SPECIFICATIONS FOR MINIMUM STUD THICKNESS, MAXIMUM SPACING AND ALLOWABLE LIMITING HEIGHTS DEFLECTION CRITERIA FOR GYPSUM BOARD ASSEMBLIES.

14. REFER TO SHEET AG0.1 GENERAL NOTES AND DETAILS AND SHEET A7.6.3 MILLWORK ELEVATIONS / TYP DETAILS FOR MOUNTING DETAIL INFORMATION.

15. REFER TO THE METAL FABRICATIONS DETAILS FOR MF REFERENCES IN PARTITIONS SECTION.

16. REFER TO STRUCTURAL DRAWINGS FOR REINFORCING INFORMATION.

17. HEAD OF WALL DETAILS DO NOT ALTER PARTITION TYPES NOTED ON PLANS.

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Detroit, Michigan

Key Plan:

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
PARTITION TYPES

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale: As indicated

Seal:

Signature:

Drawing No:
A7.4.1

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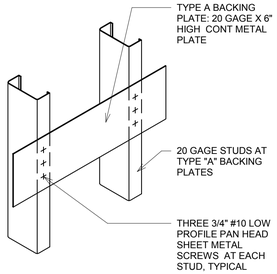
TYPICAL BACKING PLATE SCHEDULE

PROVIDE BACKING PLATES AS INDICATED ON THE DRAWINGS AND/OR WHERE LISTED BELOW. REFER TO DETAILS ELSEWHERE IN THE SET OF DRAWINGS FOR THE SUPPORT OF WALL MOUNTED ITEMS IN EXCESS OF 200 POUNDS

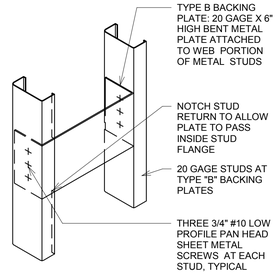
TYPE "A" BACKING PLATE



TYPE A BACKING PLATES:

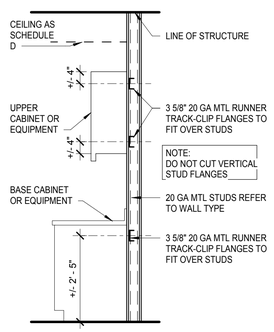
- AT DOOR STOPS AND BUMPER RAILS
- AT TOILET ACCESSORIES, MIRRORS, COAT HOOKS ETC
- AT ALL UPPER WALL HUNG CABINETS
- AT ALL BASE CABINETS
- AT ALL FULL HEIGHT CABINETS
- AT WALL MOUNTED SHELVING
- AT ALL WALL MOUNTED HANDRAILS

TYPE "B" BACKING PLATE

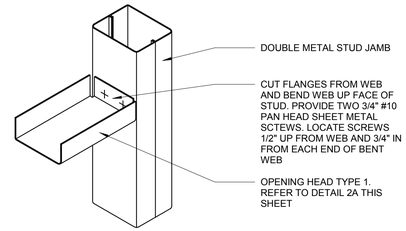


TYPE B BACKING PLATES:

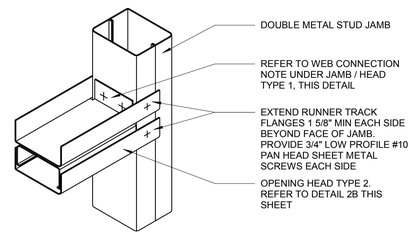
TYPE B BACKING PLATE SHALL SUPPORT THE SAME ITEMS AS TYPE A BACKING PLATE BUT USE WHERE APPEARANCE IS THE MAIN CONCERN SUCH AS LOBBIES AND OTHER HIGH DESIGN AREAS



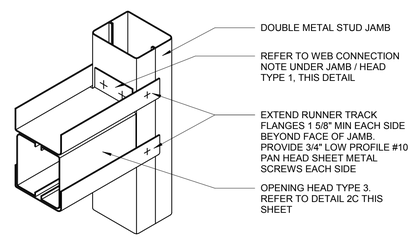
4 TYPICAL WALL BLOCKING
1/2" = 1'-0"



A JAMB AT TYPE 1 HEAD

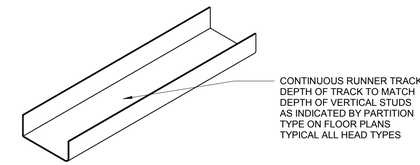


B JAMB AT TYPE 2 HEAD

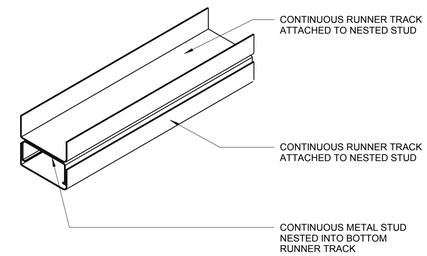


C JAMB AT TYPE 3 HEAD

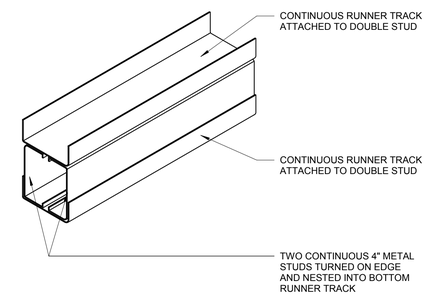
3 HEAD / JAMB CONNECTION
1 1/2" = 1'-0"



A TYPICAL HEAD TYPE 1 - OPENINGS UP TO 3'-6" WIDE

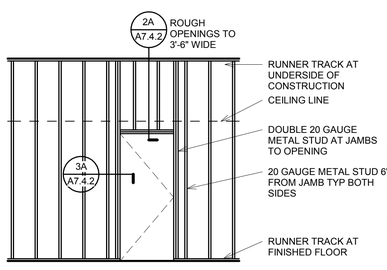


B TYPICAL HEAD TYPE 2 - OPENINGS 3'-6" TO 8'-0" WIDE

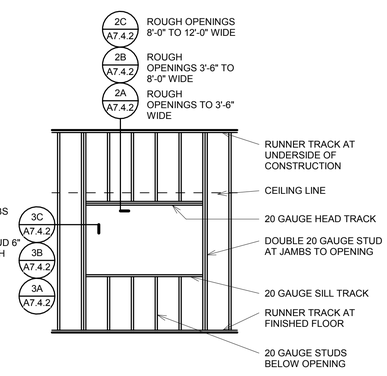


C TYPICAL HEAD TYPE 3 - OPENINGS 8'-0" TO 12'-0" WIDE

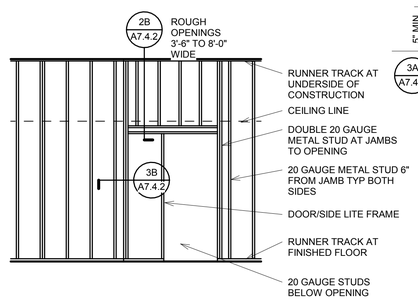
2 HEAD TRACK FRAMING
1 1/2" = 1'-0"



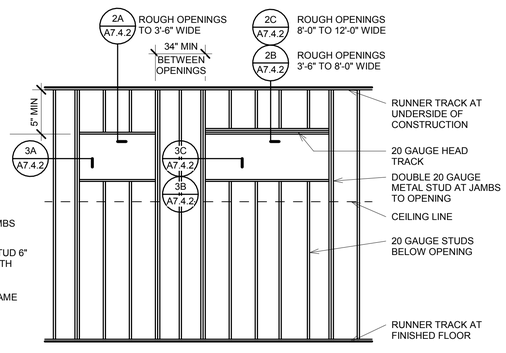
A TYPICAL FRAMING ELEVATIONS



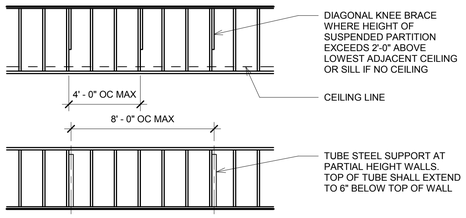
B GLAZED OPENINGS / PASS-THROUGHS



C COMBINATION DOOR / GLAZED OPENINGS



D UTILITY SERVICE OPENINGS



E SUSPENDED AND PARTIAL HEIGHT PARTITIONS

TYPICAL AT ALL METAL STUD FRAMING UNLESS OTHERWISE NOTED

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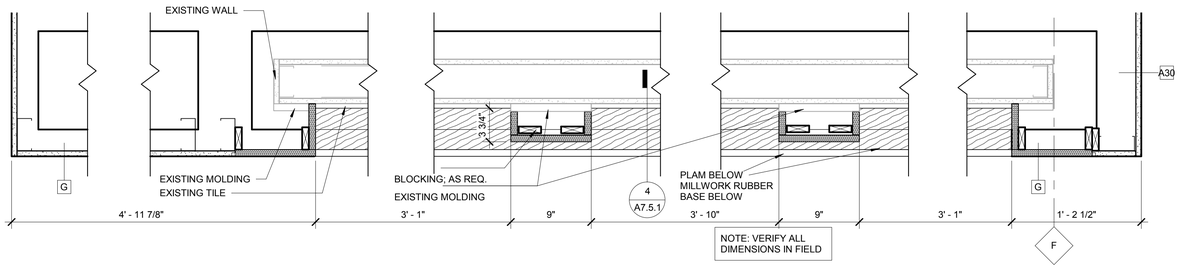
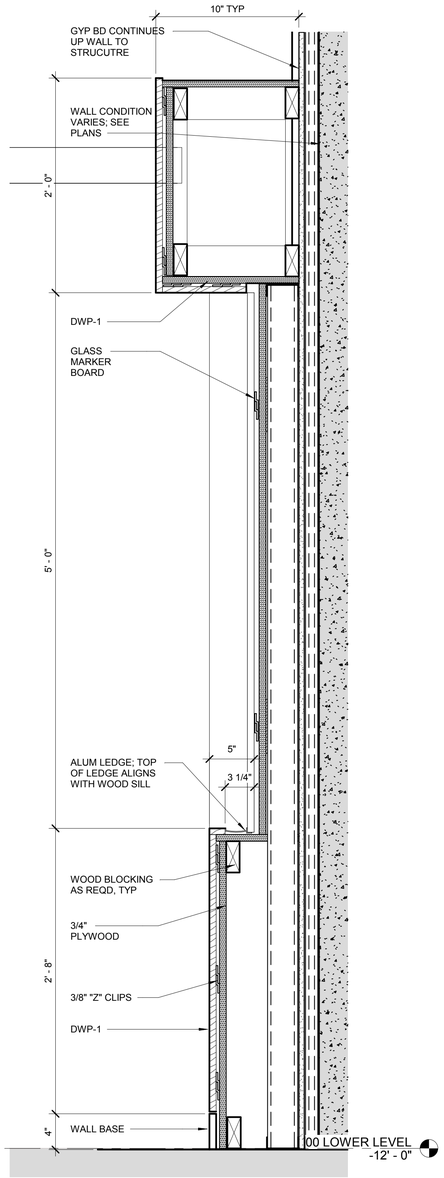
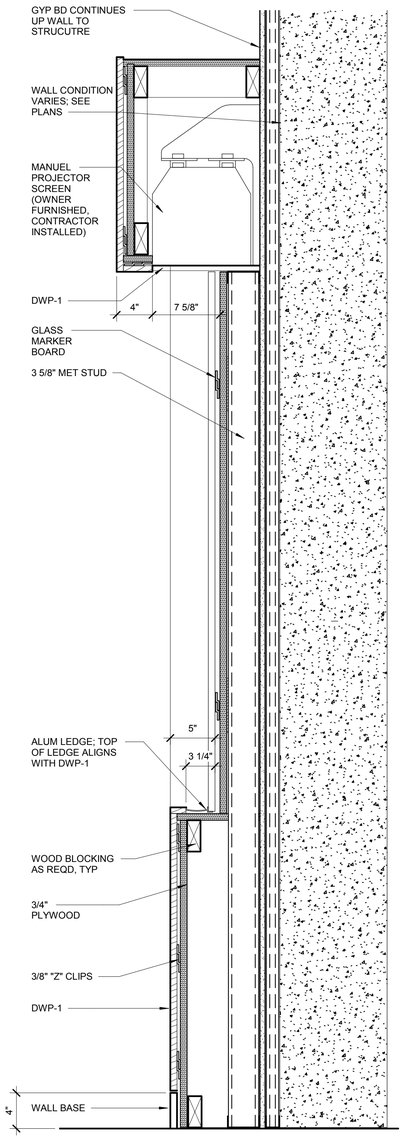


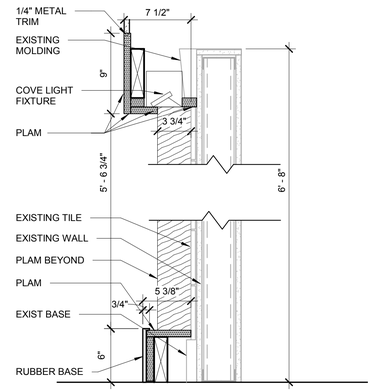
7 A1.1.1 PLAN DETAIL @ EXISTING TILE WALL
1 1/2" = 1'-0"



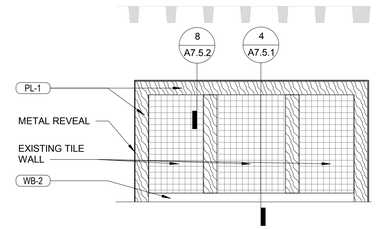
6 A7.5.1 SECTION DETAIL AT TEACHING WALL
1 1/2" = 1'-0"



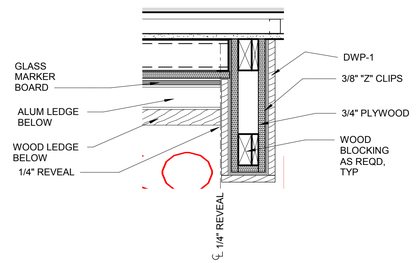
5 A7.5.1 SECTION DETAIL @ TEACHING WALL AT SCREEN
1 1/2" = 1'-0"



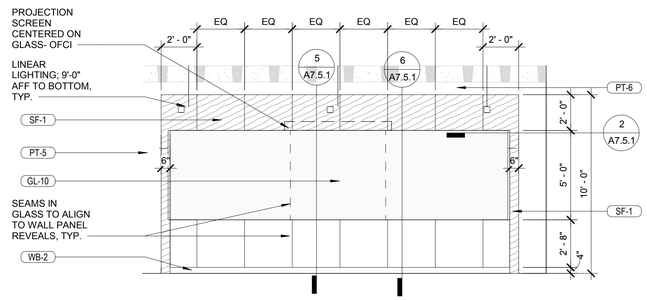
4 A7.5.1 SECTION DETAIL AT EXISTING TILE WALL
1 1/2" = 1'-0"



3 A1.1.1 EXISTING TILE WALL ELEVATION
1/4" = 1'-0"



2 A7.5.1 PLAN DETAIL AT TEACHING WALL
1 1/2" = 1'-0"



1 A1.0.1 TYP. CLASSROOM TEACHING WALL ELEVATION
1/4" = 1'-0"

MILLWORK NOTES

1. REFER TO SHEET A7.7.1 FOR MATERIAL INDEX

2. REFER TO SHEET A7.7.2 FOR ROOM FINISH SCHEDULE

3. DECORATIVE WALL PANEL (DWP-1) AND DECORATIVE CEILING PANEL (DCP-1) REVEALS TO ALIGN.

4. ACCENT LINOLEUM FLOORING (LIN -3, 4, OR 5) TO ALIGN WITH DECORATIVE WALL PANELS (DWP-2, 3 AND 4). REFER TO SERIES A7.7 FOR FLOOR FINISH PLANS.

5. POWER/ DATA RECEPTACLES AND CARD READERS SHOWN FOR REFERNCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR POWER/ DATA RECEPTACLE LOCATIONS. REFER TO SECURITY DRAWINGS FOR CARD READER LOCATIONS.

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Drawing Title
MILLWORK DETAILS

Project Number: 2013088.22 WSU Project No: 063-301464

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Signature:

Drawing No:
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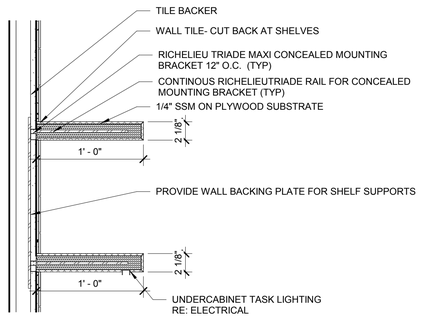
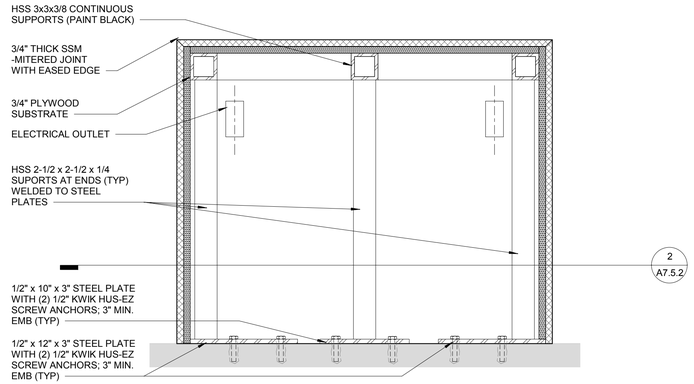


8 A7.5.1 SHELF DETAIL
1 1/2" = 1'-0"



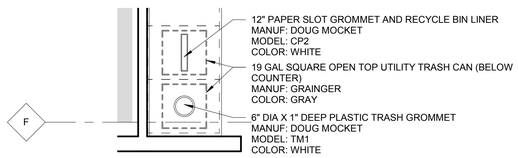
5 A7.5.2 ISLAND LEG SECTION 2
1 1/2" = 1'-0"

CASEWORK/ MILLWORK NOTES

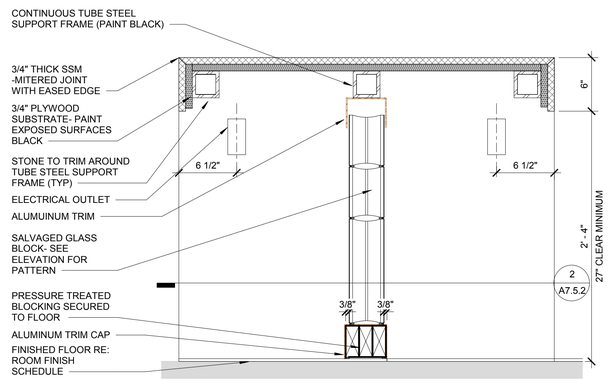
1. ALL BREAK AREA CABINETS SHALL BE 24" DEEP WITH A 25" DEEP COUNTER, UNLESS NOTED OTHERWISE.
2. REFER TO INTERIOR ELEVATIONS FOR CABINET WIDTHS AND TYPES.
3. PROVIDE WALL REINFORCING FOR ALL CASEWORK, MILLWORK, SHELVES, WALL-MOUNTED EQUIPMENT, GRAB BARS, AND TOILET ACCESSORIES. SEE SHEET A7.4.2
4. SEE ENLARGED PLANS AND INTERIOR ELEVATIONS FOR COUNTERTOP MATERIALS.
5. CASEWORK BASIS OF DESIGN:
   MANUF: AYA KITCHENS & BATHS
   DOOR TYPE: TRIBECA, FULL OVERLAY PANEL
   DRAWER TYPE: TRIBECA
   COLOR: KHIVA
   FINISH: TEXTURED
   HARDWARE: RICHELIEU, CONTEMPORARY METAL PULL 7470, 6-5/16" WIDE, #BP7470160900
   HARDWARE FINISH: MATTE BLACK
   COUNTERTOP: SSM-2 (BREAK AREA & PERSONAL ROOM)

MILLWORK NOTES

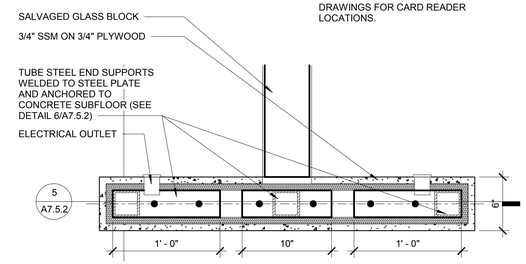
1. REFER TO SHEET A7.7.1 FOR MATERIAL INDEX
2. REFER TO SHEET A7.7.2 FOR ROOM FINISH SCHEDULE
3. DECORATIVE WALL PANEL (DWP-1) AND DECORATIVE CEILING PANEL (DCP-1) REVEALS TO ALIGN.
4. ACCENT LINOLEUM FLOORING (LIN -3, 4, OR 5) TO ALIGN WITH DECORATIVE WALL PANELS (DWP-2, 3 AND 4). REFER TO SERIES A7.7 FOR FLOOR FINISH PLANS.
5. POWER/ DATA RECEPTACLES AND CARD READERS SHOWN FOR REFERNCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR POWER/ DATA RECEPTACLE LOCATIONS. REFER TO SECURITY DRAWINGS FOR CARD READER LOCATIONS.



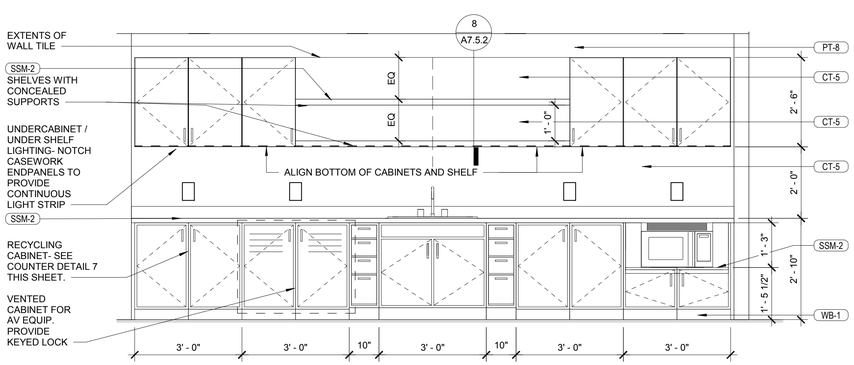
7 A1.1.1 PLAN DETAIL @ RECYCLING GROMMETS
1/2" = 1'-0"



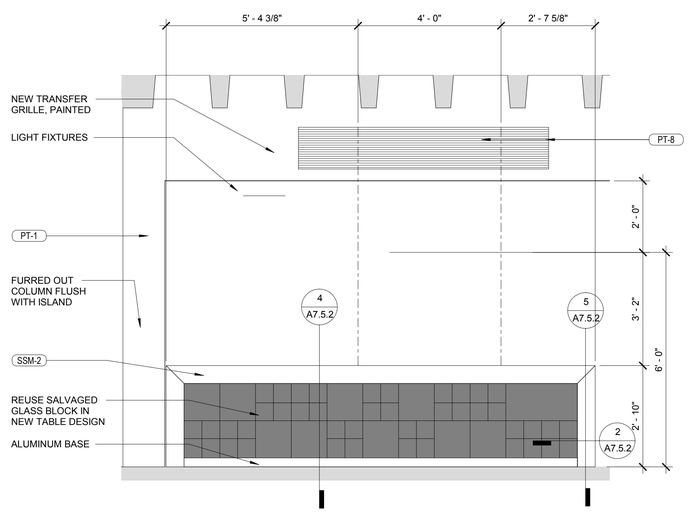
4 A7.5.2 ISLAND SECTION
1 1/2" = 1'-0"



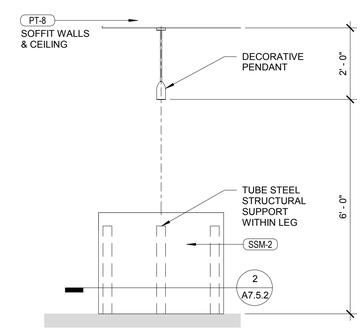
2 A7.5.2 ISLAND LEG SECTION
1 1/2" = 1'-0"



6 A1.1.1 BREAK AREA ELEVATION
1/2" = 1'-0"



3 A1.1.1 BREAK AREA ISLAND ELEVATION - WEST
1/2" = 1'-0"



1 A1.1.1 BREAK AREA ISLAND ELEVATION - SOUTH
1/2" = 1'-0"

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Structural Engineer: Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

WAYNE STATE UNIVERSITY

Client
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5454 Cass Avenue
Detroit, Michigan

Key Plan:

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
MILLWORK DETAILS

Project Number: 2013088.22 WSU Project No: 063-301464
Drawn By: HM/JAM Approved By: RH
Scale: As indicated
Seal:

Signature:

Drawing No:
A7.5.2

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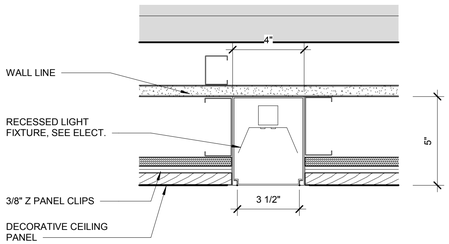
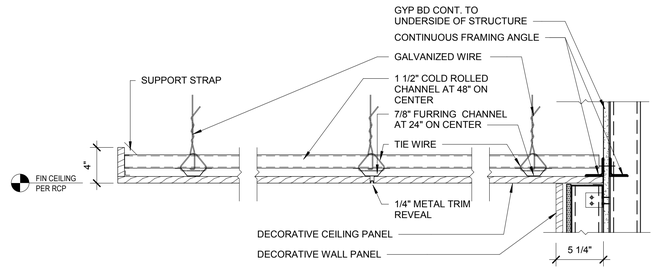
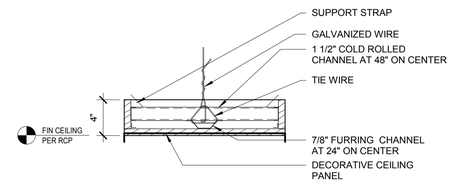


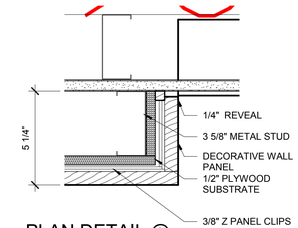
17 A7.5.3 PLAN DETAIL @ WOOD WALL RECESSED LIGHT
3" = 1'-0"



16 A2.0.1 SECTION DETAIL @ WOOD CEILING TO WOOD WALL
1 1/2" = 1'-0"



15 A2.0.1 SECTION DETAIL @ BENCH CEILING
1 1/2" = 1'-0"



14 A7.5.3 PLAN DETAIL @ WOOD WALL RETURN
3" = 1'-0"

MILLWORK NOTES

1. REFER TO SHEET A7.7.1 FOR MATERIAL INDEX
2. REFER TO SHEET A7.7.2 FOR ROOM FINISH SCHEDULE
3. DECORATIVE WALL PANEL (DWP-1) AND DECORATIVE CEILING PANEL (DCP-1) REVEALS TO ALIGN.
4. ACCENT LINOLEUM FLOORING (LIN -3, 4, OR 5) TO ALIGN WITH DECORATIVE WALL PANELS (DWP-2, 3 AND 4). REFER TO SERIES A7.7 FOR FLOOR FINISH PLANS.
5. POWER/ DATA RECEPTACLES AND CARD READERS SHOWN FOR REFERNCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR POWER/ DATA RECEPTACLE LOCATIONS. REFER TO SECURITY DRAWINGS FOR CARD READER LOCATIONS.

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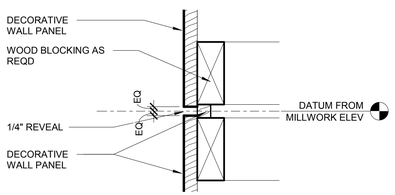
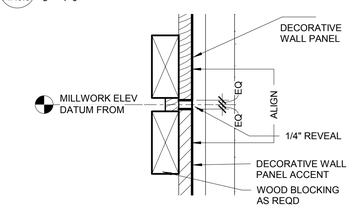
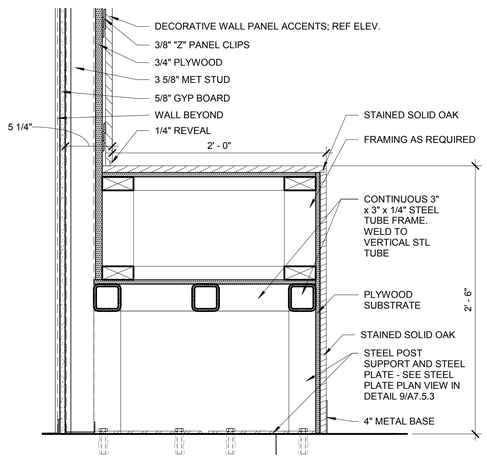


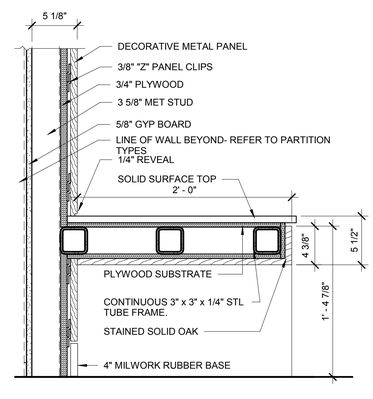
13 A7.5.3 DETAIL @ DECORATIVE WALL PANEL REVEAL, TYP
3" = 1'-0"



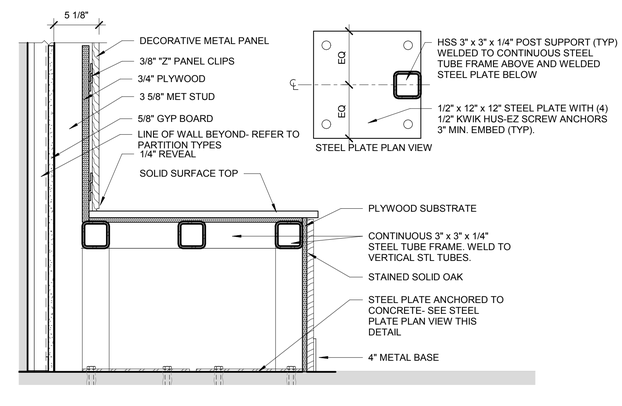
12 A7.5.3 DETAIL @ DECORATIVE WALL PANEL AND ACCENT PANEL REVEAL, TYP
3" = 1'-0"



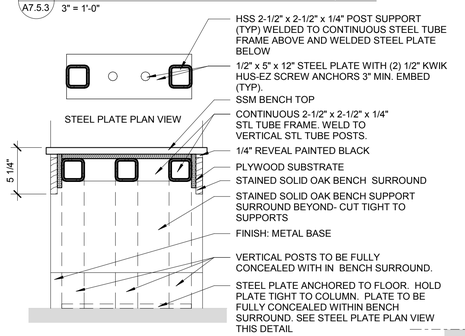
11 A7.5.3 BENCH SECTION DETAIL @ CANTED TOP (WOOD BACK)
1 1/2" = 1'-0"



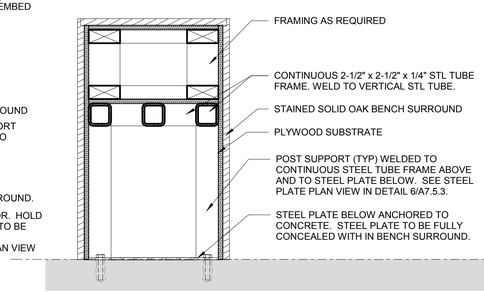
10 A7.5.3 BENCH SECTION DETAIL @ SEAT (WOOD BACK)
1 1/2" = 1'-0"



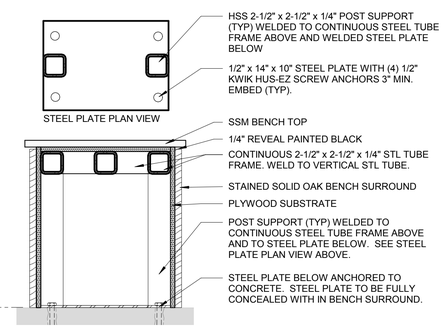
9 A7.5.3 BENCH SECTION
1 1/2" = 1'-0"



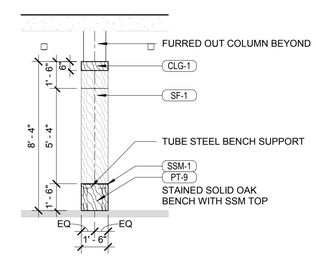
8 A7.5.3 BENCH SECTION NO WALL
1 1/2" = 1'-0"



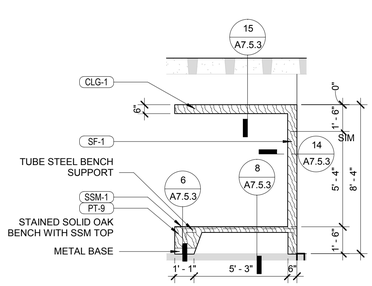
7 A7.5.3 RAISED END AT BENCH AT NO WALL
1 1/2" = 1'-0"



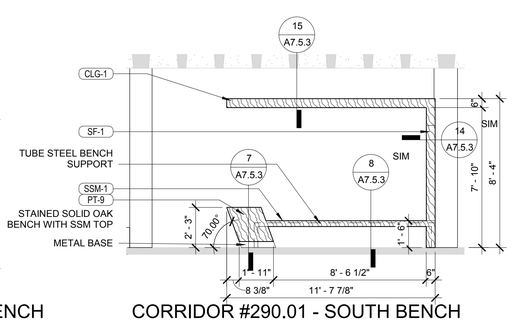
6 A7.5.3 BENCH END
1 1/2" = 1'-0"



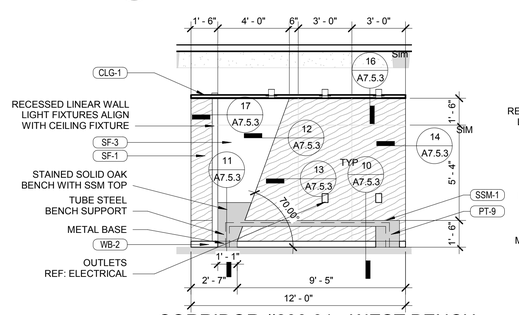
5 A1.2.1 CORRIDOR #290.01 - NORTH BENCH - NORTH ELEVATION
1/4" = 1'-0"



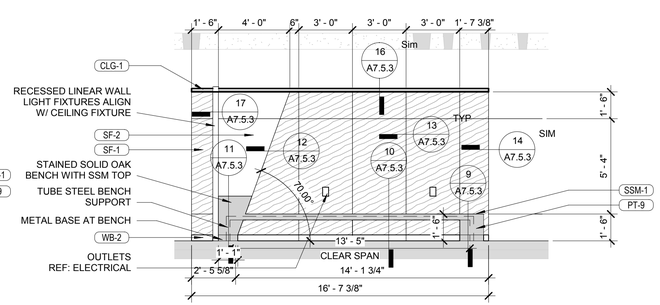
4 A1.2.1 CORRIDOR #290.01 - NORTH BENCH - WEST ELEVATION
1/4" = 1'-0"



3 A1.2.1 CORRIDOR #290.01 - SOUTH BENCH - WEST ELEVATION
1/4" = 1'-0"



2 A1.2.1 CORRIDOR #290.01 - WEST BENCH - WEST ELEVATION
1/4" = 1'-0"



1 A1.0.1 CORRIDOR #090.01 BENCH
1/4" = 1'-0"

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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
MILLWORK DETAILS

Project Number: 2013088.22 — WSU Project No: 063-301464
Drawn By: HM/JAM — Approved By: RH
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Seal:

Signature:

Drawing No:
A7.5.3

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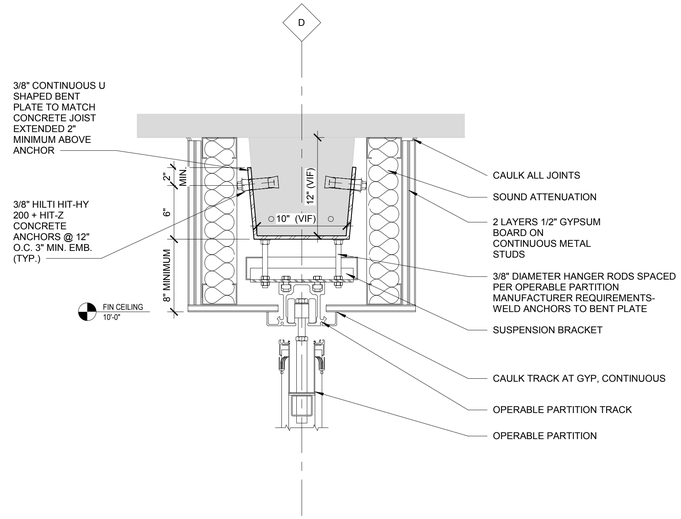
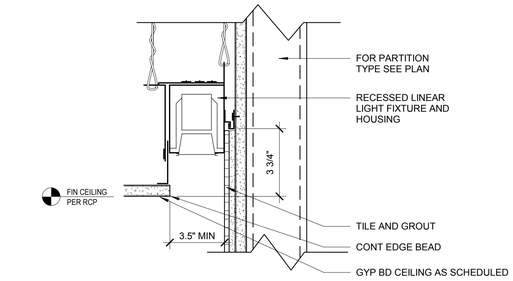
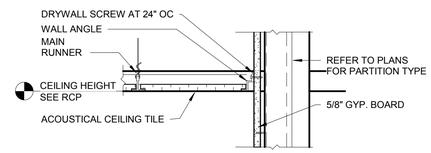


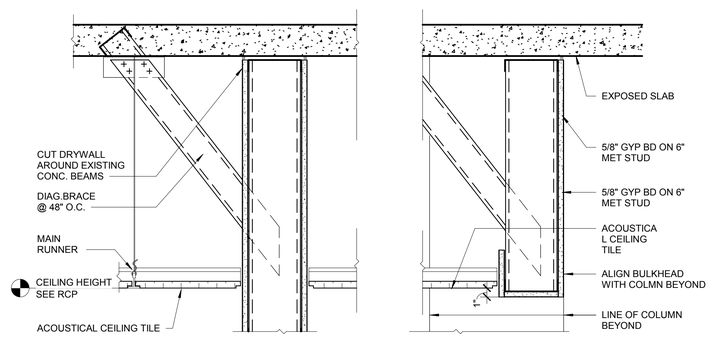
7 A2.0.1 OPERABLE PARTITION HEAD
1 1/2" = 1'-0"



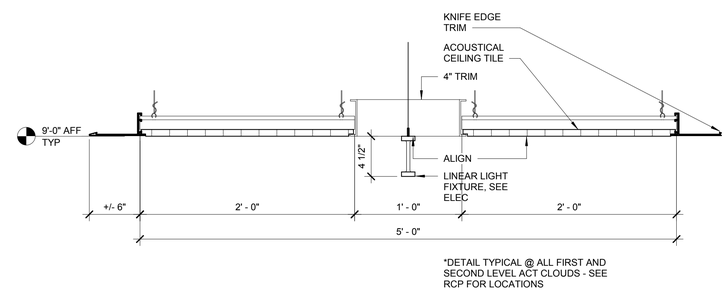
4 A2.0.1 SECTION DETAIL @ BATHROOM LIGHT FIXTURE, TYP
3" = 1'-0"



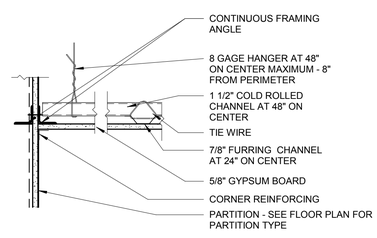
3 A2.1.1 SECTION DETAIL @ ACT TO WALL
1 1/2" = 1'-0"



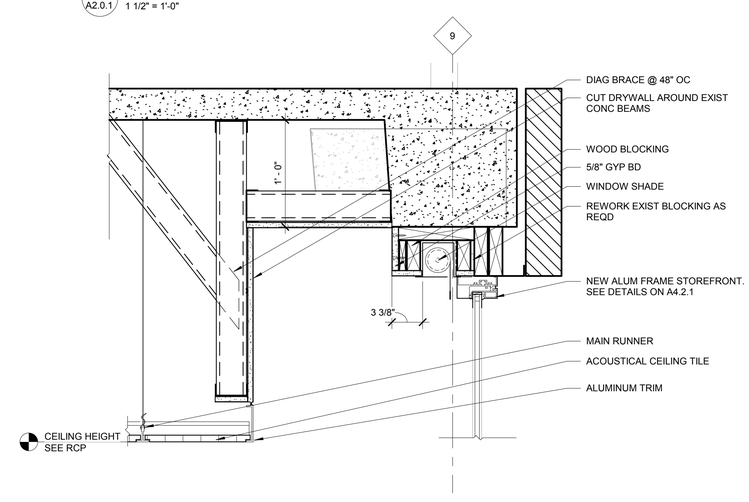
6 A2.0.1 SECTION DETAIL @ ACT AND WALL
1 1/2" = 1'-0"



2 A2.0.1 SECTION DETAIL @ ACT CLOUD
1 1/2" = 1'-0"



5 A2.1.1 SECTION DETAIL @ TYP. GYP. CEILING TO GYP. WALL
1 1/2" = 1'-0"



1 A2.1.1 SECTION DETAIL @ ACT TO NEW STOREFRONT
1 1/2" = 1'-0"

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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
CEILING DETAILS

Project Number: 2013088.22 WSU Project No: 063-301464
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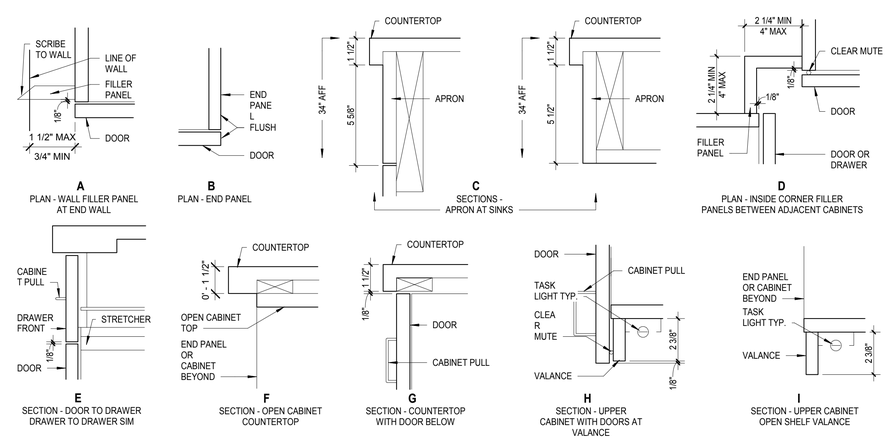
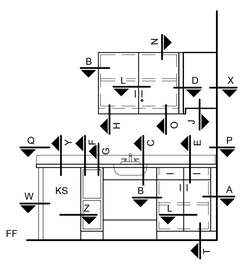
CASEWORK/ MILLWORK NOTES

1. ALL BREAK AREA CABINETS SHALL BE 24" DEEP WITH A 25" DEEP COUNTER, UNLESS NOTED OTHERWISE.
2. REFER TO INTERIOR ELEVATIONS FOR CABINET WIDTHS AND TYPES.
3. PROVIDE WALL REINFORCING FOR ALL CASEWORK, MILLWORK, SHELVES, WALL-MOUNTED EQUIPMENT, GRAB BARS, AND TOILET ACCESSORIES. SEE SHEET A7.4.2
4. SEE ENLARGED PLANS AND INTERIOR ELEVATIONS FOR COUNTERTOP MATERIALS.
5. CASEWORK BASIS OF DESIGN:
   MANUF: AYA KITCHENS & BATHS
   DOOR TYPE: TRIBECA, FULL OVERLAY PANEL
   DRAWER TYPE: TRIBECA
   COLOR: KHIVA
   FINISH: TEXTURED
   HARDWARE: RICHELIEU, CONTEMPORARY METAL PULL 7470, 6-5/16" WIDE, #BP7470160900
   HARDWARE FINISH: MATTE BLACK
   COUNTERTOP: SSM-2 (BREAK AREA & PERSONAL ROOM)



1 TYPICAL CASEWORK DETAILS
3" = 1'-0"



NOTE: SEE - PLANS, ENLARGED PLANS, AND INTERIOR ELEVATIONS FOR COUNTER TOP MATERIAL. ALL COUNTER TOPS TO BE SOLID SURFACE WITH BASE AND UPPER CABINETS TO BE PLASTIC LAMINATE U.N.O.

PROVIDE 1" RADIUS CORNER ON ALL OUTSIDE CORNERS OF COUNTERS AND BENCHES U.N.O.

DESIGNATION KEY

2 CASEWORK TYPES
3/8" = 1'-0"

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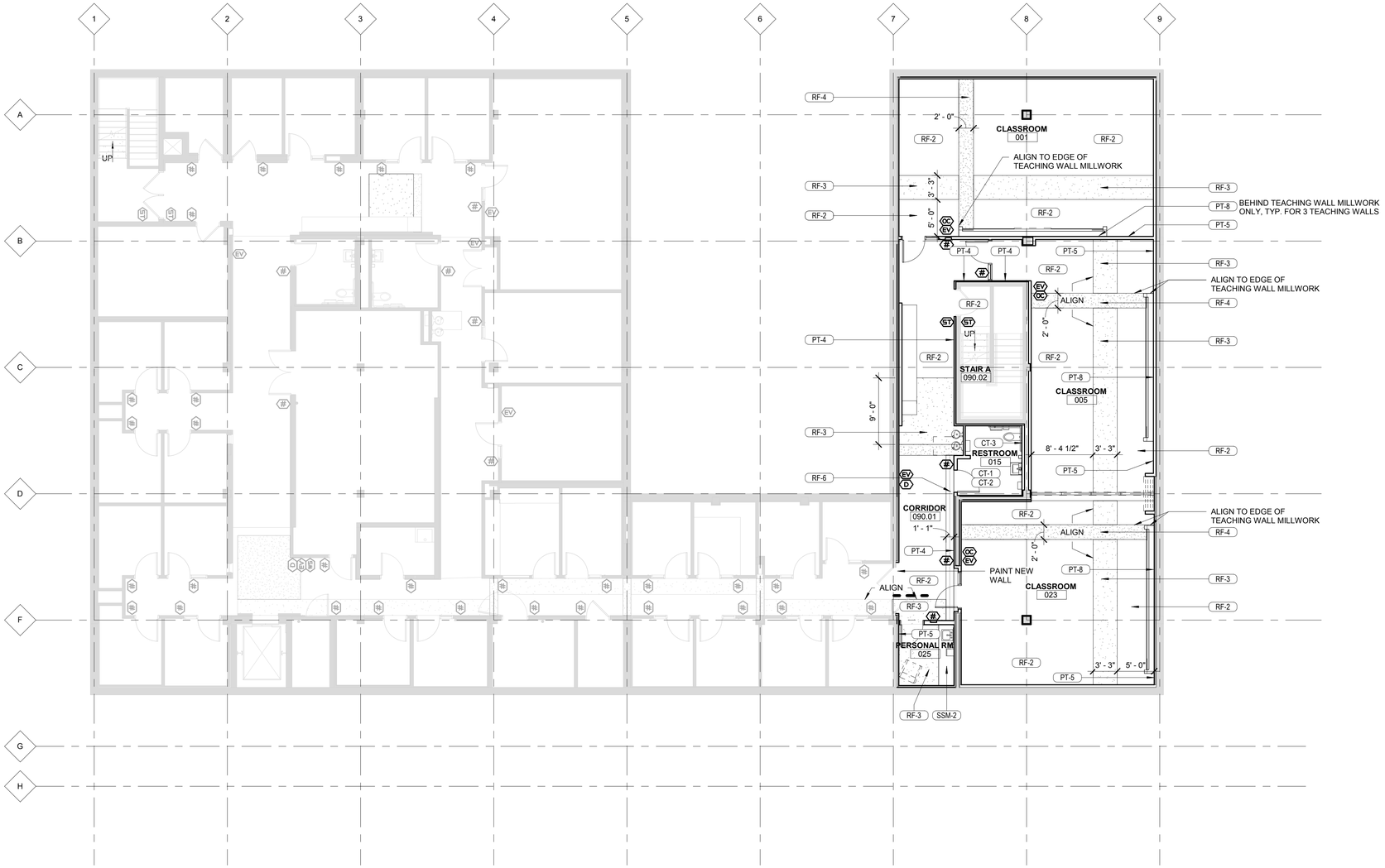

LOWER LEVEL FINISH PLAN

1/8" = 1'-0"

0 4' 8' 16'

FLOOR PATTERN LEGEND

RF-2
RF-3
RF-4
RF-5
RF-6

SIGNAGE SYMBOLS

- # NUMBER; TYPES 1, 1A, 2, 2A, 3, 3A, 3B
- ST STAIR; TYPES 4, 4A- EXISTING SIGNS TO BE REINSTALLED
- D DIRECTIONAL; TYPE 5
- EV EVACUATION PLAN; TYPE 8
- OC OCCUPANT LOAD; TYPE 9
- EX EXIT; TYPE 11; TYPE 12

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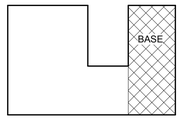

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PLAN REVIEW	17 JUN 2019

Project
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5447 Woodward, Detroit, MI

Drawing Title
LOWER LEVEL FINISH/SIGNAGE PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale: As indicated

Seal:

Signature:

Drawing No:
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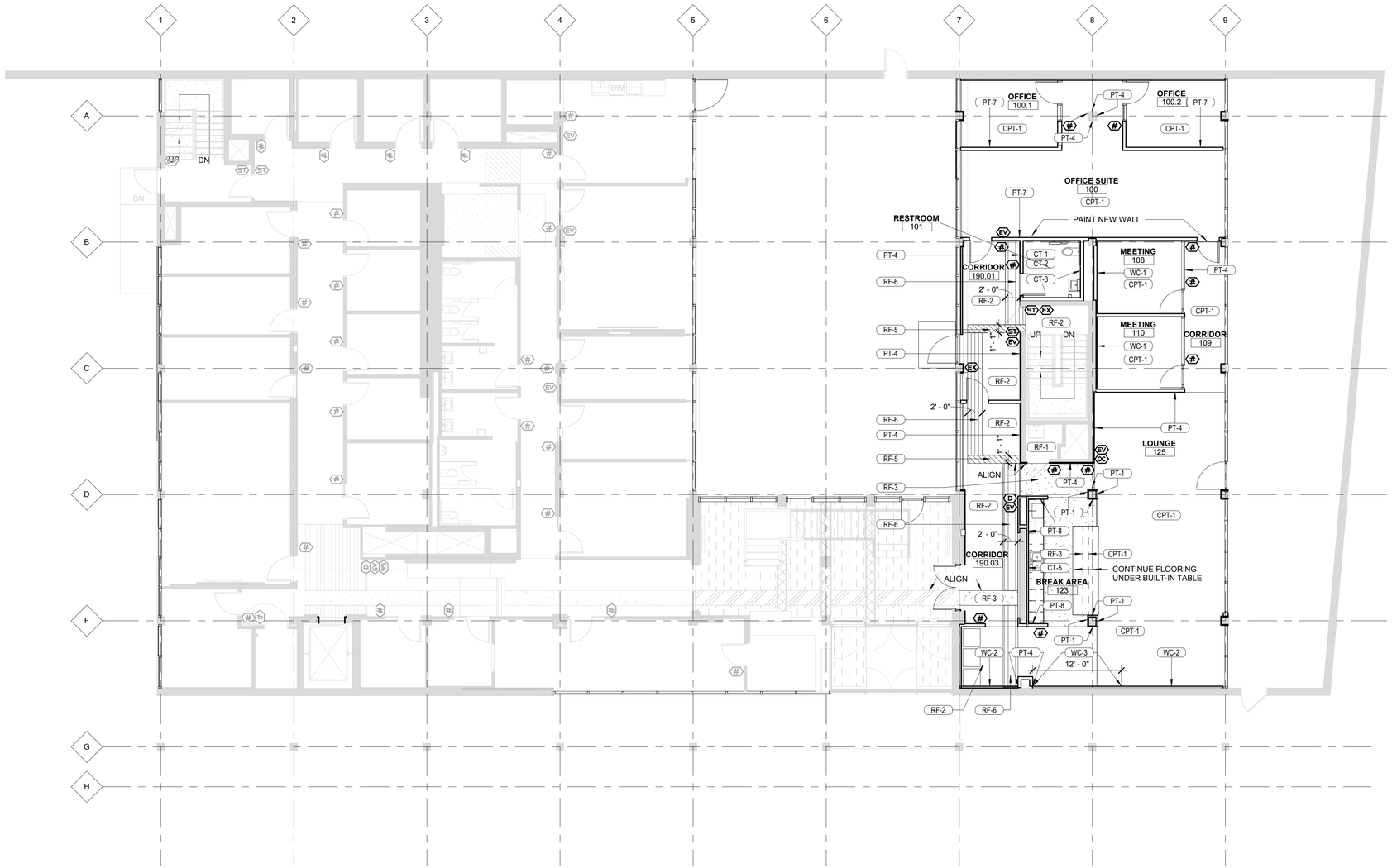

FIRST FLOOR FINISH PLAN

1/8" = 1'-0"

0 4' 8' 16'

FLOOR PATTERN LEGEND

- RF-2
- RF-3
- RF-4
- RF-5
- RF-6

SIGNAGE SYMBOLS

- (#) NUMBER; TYPES 1, 1A, 2, 2A, 3, 3A, 3B
- (ST) STAIR; TYPES 4, 4A- EXISTING SIGNS TO BE REINSTALLED
- (D) DIRECTIONAL; TYPE 5
- (EV) EVACUATION PLAN; TYPE 8
- (OC) OCCUPANT LOAD; TYPE 9
- (EX) EXIT; TYPE 11; TYPE 12

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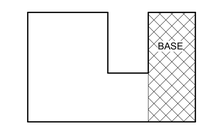
Key Plan:



FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
FIRST LEVEL FINISH/SIGNAGE PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale: As indicated

Seal:

Signature:

Drawing No:

A7.7.1

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SECOND FLOOR FINISH PLAN

1/8" = 1'-0"

0 4' 8' 16'

FLOOR PATTERN LEGEND

RF-2
RF-3
RF-4
RF-5
RF-6

SIGNAGE SYMBOLS

- # NUMBER; TYPES 1, 1A, 2, 2A, 3, 3A, 3B
- ST STAIR; TYPES 4, 4A- EXISTING SIGNS TO BE REINSTALLED
- D DIRECTIONAL; TYPE 5
- EV EVACUATION PLAN; TYPE 8
- OC OCCUPANT LOAD; TYPE 9
- EX EXIT; TYPE 11; TYPE 12

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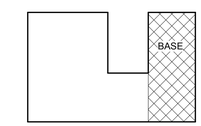
Structural Engineer: Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

WAYNE STATE UNIVERSITY

Client
WAYNE STATE UNIVERSITY FP&M
5454 Cass Avenue
Detroit, Michigan

Key Plan:



FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
SECOND LEVEL FINISH/SIGNAGE PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: HM/JAM Approved By: RH

Scale: As indicated

Seal:

Signature:

Drawing No:
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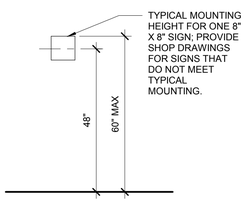
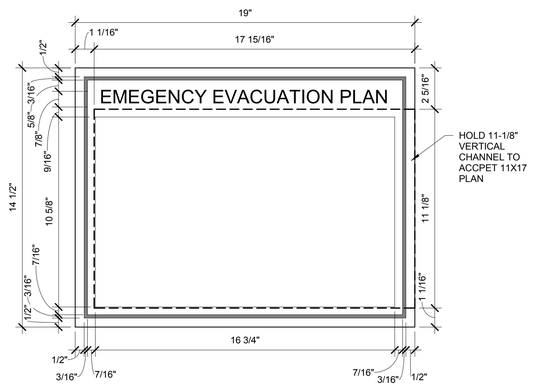
SIGNAGE NOTES

1. COMPLY WITH ICC/ANSI.117.1-2003, ADAGG, STATE AND LOCAL GOVERNING CODES.
2. EVACUATION AND WAYFINDING PLANS: ARCHITECT WILL PROVIDE FLOOR PLAN BACKGROUNDS TO SIGNAGE COMPANY. SIGNAGE COMPANY IS RESPONSIBLE FOR DETERMINING APPROPRIATE EXIT ROUTES AND "YOU ARE HERE" MARKERS
3. REFER TO SIGNAGE SCHEDULE FOR SIGN MESSAGE AND SIGNAGE PLANS FOR SIGN LOCATIONS. ADVISE ARCHITECT WITH ANY DISCREPENCIES.
4. COORDINATE SIGNAGE LOCATION WITH BUILDING ELEMENTS AND BUILT-IN ITEMS.
5. PREPARE EXISTING SURFACE TO RECIEVE WALL MOUNT SIGN. PREPARE PRE MANUFACTURER'S WRITTEN INSTRUCTIONS.
6. PROVIDE BACKER PIECE / PLATE FOR GLASS MOUNTED SIGNS.
7. SIGNAGE COLORS TBD (TYP).
8. VERIFY DIRECTION OF STAIR SIGNAGE ARROWS AND LOCATIONS OF STAIR SIGNAGE PRIOR TO PLACING SIGNAGE ORDER.
9. BRAILLE TO BE DETERMINED AND VERIFIED BY SIGNAGE VENDOR.



TYP SIGNAGE HEIGHTS FOR 8" X 8" SIGN

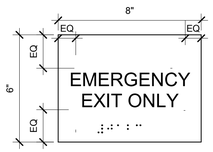


EV **TYPE 8**

TYP. EVACUATION SIGN
N.T.S.

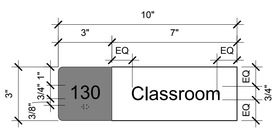
GRAPHICS PROCESS: SUBSURFACE SILKSCREEN
TYPOGRAPHY: 7/8" UNIVERS 45 LIGHT U/C
3/16" RULE LINE

GRAPHICS COLOR: SC-901 WHITE
BACKGROUND COLOR: SC-201



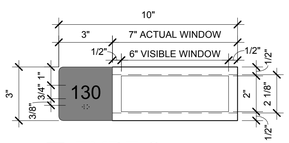
EX **TYPE 12**

N.T.S.



TYPE 1

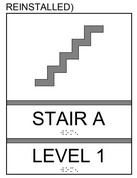
ROOM ID



TYPE 2

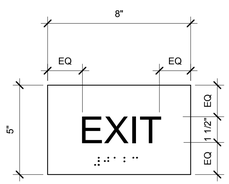
ROOM ID W/ WINDOW FOR INTERCHANGEABLE ROOM ID

(EXISTING SIGN TO BE SALVAGED AND REINSTALLED)



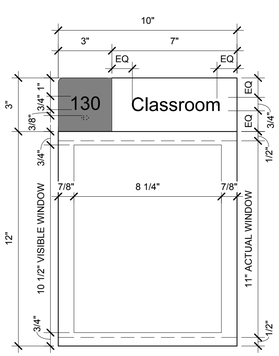
ST **TYPE 4A**

INSIDE OF STAIR



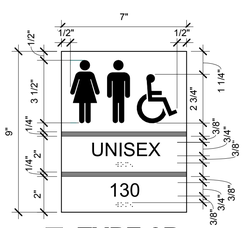
EX **TYPE 11**

TYPICAL EXIT SIGN
N.T.S.



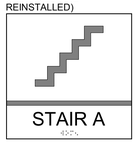
TYPE 1A

ROOM ID W/ WINDOW FOR INTERCHANGABLE 8.5" X 11" DOC.



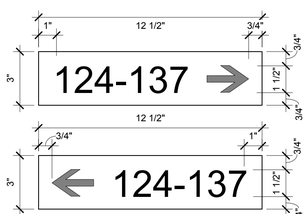
TYPE 3B

(EXISTING SIGN TO BE SALVAGED AND REINSTALLED)



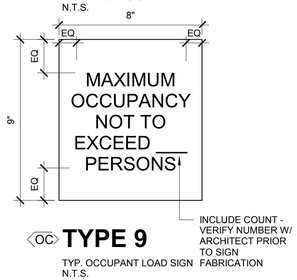
ST **TYPE 4**

OUTSIDE OF STAIR



D **TYPE 5**

DIRECTIONAL



OC **TYPE 9**

TYP. OCCUPANT LOAD SIGN
N.T.S.

SIGNAGE SCHEDULE - ROOM NUMBER ALTERNATES

NUMBER	NAME	# SIGN	QUANTITY	TYPE	MESSAGE	BRAILLE
00 LOWER LEVEL						
051	SHARED OFFICE	051	1	2		X
01 FIRST FLOOR						
151A	OFFICE	151A	1	2		X
151B	OFFICE	151B	1	2		X
151C	OFFICE	151C	1	2		X

SIGNAGE SCHEDULE - ROOM NUMBER

NUMBER	NAME	# SIGN	QUANTITY	TYPE	MESSAGE	BRAILLE
00 LOWER LEVEL						
005	CLASSROOM	005	1	1	Classroom	X
015	RESTROOM	013	1	3B	Unisex	X
023	CLASSROOM	023	1	1	Classroom	X
025	PERSONAL RM	024	1	1	Personal Room	X
01 FIRST FLOOR						
100.1	OFFICE	103	1	2		X
100.2	OFFICE	104	1	2		X
101	RESTROOM	101	1	3B	Unisex	X
114	JANITOR'S CLOSET	187.01	1	1	Janitor Closet	X
123	BREAK AREA	113	1	1	Break Area	X
125	LOUNGE	111	1	1	Lounge	X
151A	OFFICE	151A	1	2		X
02 SECOND FLOOR						
200	STORAGE	203	1	1	Storage	X
201	OFFICE	204	1	2		X
203	OFFICE	206	1	2		X
204	OFFICE	202	1	2		X
206	OFFICE	201	1	2		X
207	OFFICE	207	1	2		X
209	OFFICE	208	1	2		X
213	OFFICE	209	1	2		X
214	JANITOR'S CLOSET	211	1	1	Janitor Closet	X
215	OFFICE	214	1	2		X
216	RESTROOM	213	1	3B	Unisex	X
219	OFFICE	216	1	2		X
221	OFFICE	217	1	2		X
222	OFFICE	221	1	2		X
224	OFFICE	219	1	2		X
225	OFFICE	218	1	2		X

TYPE 4 / 4A - STAIRS

NUMBER	NAME	# - QUANTITY	TYPE	MESSAGE	BRAILLE	REMARKS
00 LOWER LEVEL						
090.01	CORRIDOR	1	4	STAIR A	X	1
090.02	STAIR A	1	4A	STAIR A	X	1
01 FIRST FLOOR						
190.01	CORRIDOR	1	4	STAIR A	X	1
190.02	STAIR A	1	4A	STAIR A	X	1
02 SECOND FLOOR						
290.01	CORRIDOR	1	4	STAIR A	X	1
290.02	STAIR A	1	4A	STAIR A	X	1

TYPE 5 - DIRECTIONAL

NUMBER	NAME	DIRECTIONAL SIGN	QUANTITY	TYPE
00 LOWER LEVEL				
090.01	CORRIDOR	D00	1	5
01 FIRST FLOOR				
190.03	CORRIDOR	D01	1	5
02 SECOND FLOOR				
290.01	CORRIDOR	D02	1	5

TYPE 8 - EVACUATION

NUMBER	NAME	EVACUATION SIGN	QUANTITY	TYPE	REMARKS
00 LOWER LEVEL					
001	CLASSROOM	EV-00	1	8	
005	CLASSROOM	EV-00	1	8	
023	CLASSROOM	EV-00	1	8	
090.01	CORRIDOR	EV-00	1	8	1
01 FIRST FLOOR					
100	OFFICE SUITE	EV01	1	8	1
125	LOUNGE	EV01	1	8	
190.01	CORRIDOR	EV01	1	8	1
190.03	CORRIDOR	EV01	1	8	
02 SECOND FLOOR					
290.01	CORRIDOR	EV02	3	8	1

TYPE 9 - OCCUPANT COUNT

Number	Name	OCCUPANT COUNT	OC - Quantity	TYPE
00 LOWER LEVEL				
001	CLASSROOM	OC001	1	9
005	CLASSROOM	OC005	1	9
023	CLASSROOM	OC023	1	9
01 FIRST FLOOR				
125	LOUNGE	OC111	1	9

TYPE 11 AND TYPE 12- EXIT SIGN

Number	Name	EXIST SIGN	EX - Quantity	TYPE	MESSAGE	BRAILLE	REMARKS
01 FIRST FLOOR							
190.01	CORRIDOR	EX190.01	1	11	EMERGENCY EXIT ONLY	X	
190.02	STAIR A	EX190.02	1	11	EXIT	X	1

REMARKS:
1. EXISTING SIGN - VIF. SALVAGE AND REINSTALL

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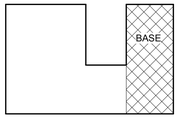

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
SIGNAGE SCHEDULE

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Drawn By: HM/JAM — Approved By: RH

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MECHANICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION
A	COMPRESSED AIR
A(___#)	COMPRESSED AIR (SPECIFIC PSIG)
AAV	AUTOMATIC AIR VENT
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
AD	ACCESS DOOR
AD	AREA DRAIN
AE	AIR EXTRACTOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
AMP	AMPERE
APD	AIR PRESSURE DROP
AR	ARGON
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR-CONDITIONING ENGINEERS
ASR	AUTOMATIC SPRINKLER RISER
AUX	AUXILIARY
AV	ACID VENT
AVTR	ACID VENT THROUGH ROOF
AW	ACID WASTE
BAS	BUILDING AUTOMATION SYSTEM
BCU	BLOWER COIL UNIT
BDD	BACKDRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BVC	BEVERAGE CONDUIT
BWV	BACKWATER VALVE
C	COMMON
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CB	CATCH BASIN
CC	COOLING COIL
CD	COLD DECK
CD	CONDENSATE DRAIN
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHW	CHILLED WATER
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CLG	COOLING
CNDS	CONDENSATE
CNDS (___#)	CONDENSATE (SPECIFIC PSIG)
CO	CLEAN OUT
CO2	CARBON DIOXIDE
CONT	CONTINUATION OR CONTINUED
CONTR	CONTRACTOR
CONV	CONVECTOR
COP	COEFFICIENT OF PERFORMACE
CP	CIRCULATING PUMP
CRU	CONDENSATE RETURN UNIT
CSS	CLINICAL SERVICE SINK
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CW	DOMESTIC COLD WATER
CWF	DOMESTIC COLD WATER - FILTERED
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D&T	DRIP AND TRAP
DA	DISCHARGE AIR
DAT	DISCHARGE AIR TEMPERATURE
DB	DRY BULB
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREE
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DMPR	DAMPER
D/N	DAY/NIGHT
DN	DOWN
DNZ	DOWNSPOUT NOZZLE
DS	DUCT SILENCER
DT	DRAIN TILE
DTC	DRAIN TILE CONNECTION
DWH	DOMESTIC WATER HEATER
DWG	DRAWING
(E)	EXISTING
E	EXHAUST GRILLE OR REGISTER
EA	EACH
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	EXPANSION COMPENSATOR
ECUH	ELECTRIC CABINET UNIT HEATER
EDB	ENTERING DRY BULB
EER	ENERGY EFFICIENCY RATIO
EES	EMERGENCY EYE WASH / SHOWER
EEW	EMERGENCY EYE WASH
EF	EXHAUST FAN
EFF	EFFICIENCY
EHC	ELECTRIC HEATING COIL
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
ERL	ENERGY RECOVERY LOOP
ERLR	ENERGY RECOVERY LOOP RETURN
ERLS	ENERGY RECOVERY LOOP SUPPLY
ERU	ENERGY RECOVERY UNIT
ESH	EMERGENCY SHOWER
ESP	EXTERNAL STATIC PRESSURE
EUH	ELECTRIC UNIT HEATER
EWB	ENTERING WET BULB
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
EXH	EXHAUST
F	FIRE PROTECTION
°F	DEGREES FAHRENHEIT
F&B	FACE AND BYPASS
F&T	FLOAT AND THERMOSTATIC
FA	FACE AREA
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FFD	FUNNEL FLOOR DRAIN
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FHR	FIRE HOSE RACK
FHV	FIRE HOSE VALVE
FLA	FULL LOAD AMPS
FLR	FLOOR
FM	FLOW METER
FMS	FLOW MEASURING STATION
FPM	FEET PER MINUTE
FP	FIRE PUMP
FPTU	FAN POWERED (AIR) TERMINAL UNIT
FS	FLOOR SINK
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
FT	FEET
FTR	FINNED TUBE RADIATION
FV	FACE VELOCITY
G	NATURAL GAS
GA	GAUGE
GAL	GALLON
GRH	GRAVITY RELIEF HOOD
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
H	HYDROGEN
HB	HOSE BIBB
HC	HEATING COIL
HD	HOT DECK
HEPA	HIGH EFFICIENCY PARTICULATE ARRESTANCE
HL	HIGH LIMIT
HOA	HAND/OFF/AUTO
HP	HEAT PUMP
HP	HORSEPOWER
HPCW	HIGH PRESSURE DOMESTIC COLD WATER
HPHW	HIGH PRESSURE DOMESTIC HOT WATER
HPHWR	HIGH PRESSURE DOMESTIC HOT WATER RETURN
HPL	HEAT PUMP LOOP
HPLR	HEAT PUMP LOOP RETURN
HPLS	HEAT PUMP LOOP SUPPLY
HR	HOUR
HTG	HEATING
HV	HEATING VENTILATING
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HWH	HOT WATER HEATING
HWHR	HOT WATER HEATING RETURN
HWHS	HOT WATER HEATING SUPPLY
HW	DOMESTIC HOT WATER
HW(___)	DOMESTIC HOT WATER (SPECIFIC TEMP °F)
HWR	DOMESTIC HOT WATER RETURN
HX	HEAT EXCHANGER
HZ	HERTZ
IAQ	INDOOR AIR QUALITY
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IH	INTAKE HOOD
IN	INCHES
IR	INFRARRED HEATER
IW	INDIRECT WASTE
JC	JANITOR'S CLOSET
JP	JOCKEY PUMP
KW	KILOWATT
KWH	KILOWATT-HOUR
LAT	LEAVING AIR TEMPERATURE
LAB	LABORATORY
LAV	LAVATORY
LBS	POUNDS
LDB	LEAVING DRY BULB
LL	LOW LIMIT
LPC	LOW PRESSURE CONDENSATE
LPS	LOW PRESSURE STEAM
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAU	MAKE-UP AIR UNIT
MAX	MAXIMUM
MBH	THOUSAND BRITISH THERMAL UNITS PER HOUR
MCA	MEDICAL COMPRESSED AIR
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MMBH	MILLION BRITISH THERMAL UNITS PER HOUR
M/S	MOTOR STARTER
MTD	MOUNTED
MTR	MOTOR
MV	MANUAL AIR VENT
MVAC	MEDICAL VACUUM
N	NITROGEN
N2O	NITROUS OXIDE
NC	NOISE CRITERIA
NC	NORMALLY CLOSED
NCTC	NORMALLY CLOSED TIMED CLOSED
NCTO	NORMALLY CLOSED TIMED OPEN
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NOTC	NORMALLY OPEN TIMED CLOSED
NOTO	NORMALLY OPEN TIMED OPEN
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NPCW	NON POTABLE COLD WATER
O	OXYGEN
OA	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
OB	OUTLET BOX
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER/CENTER TO CENTER
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OL	OVERLOAD
ORC	OVERFLOW RAIN CONDUCTOR
ORD	OVERFLOW ROOF DRAIN
OS&Y	OUTSIDE SCREW AND YOKE
OV	OUTLET VELOCITY
OWS	OPERATOR WORKSTATION
PACU	PACKAGED AIR CONDITIONING UNIT
PBD	PARALLEL BLADE DAMPER
PC	PUMPED CONDENSATE
PCW	PROCESS COOLING WATER
PCWR	PROCESS COOLING WATER RETURN
PCWS	PROCESS COOLING WATER SUPPLY
PD	PRESSURE DROP (FEET OF WATER)
PH	PERIMETER HEAT
PHR	PERIMETER HEAT RETURN
PHS	PERIMETER HEAT SUPPLY
PNL	PANEL
PPM	PARTS PER MILLION
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSAN	PUMPED SANITARY
PST	PUMPED STORM
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSIG	POUNDS PER SQUARE INCH - GAUGE
PW	PURIFIED WATER
PWR	PURIFIED WATER RETURN
PWS	PURIFIED WATER SUPPLY
(R)	RELOCATED
R	RETURN GRILLE OR REGISTER
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RC	RAIN CONDUCTOR
RCP	RADIANT CEILING PANEL
RD	ROOF DRAIN
REQD	REQUIRED
REF	ROOF EXHAUST FAN
RF	RETURN FAN
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RLFA	RELIEF AIR
RPM	REVOLUTIONS PER MINUTE
RPDA	REDUCED PRESSURE BACKFLOW PREVENTION DETECTION ASSY
RPZA	REDUCED PRESSURE BACKFLOW PREVENTION ZONE ASSY
RS	REFRIGERANT SUCTION
RTU	ROOFTOP UNIT
S	SUPPLY AIR DIFFUSER OR GRILLE
SA	SOUND ATTENUATOR
SA	SUPPLY AIR
SAN	SANITARY WASTE
SAT	SUPPLY AIR TEMPERATURE
SECT	SECTION
SF	SUPPLY FAN
SH	SHOWER
SK	SINK
SMR	SNOW MELT RETURN
SMS	SNOW MELT SUPPLY
SP	STATIC PRESSURE
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SQFT	SQUARE FOOT/SQUARE FEET
S/S	START/STOP
SS	SERVICE SINK
ST	STORM
STD	STANDARD
STK	STACK
STM	STEAM
STM(___#)	STEAM (SPECIFIC PSIG)
S/W	SUMMER/WINTER
SW	SWITCH
T	TRANSFER GRILLE
TC	TEMPERATURE CONTROL
TC	TEMPERING COIL
TCP	TEMPERATURE CONTROL PANEL
TD	TRENCH DRAIN
TEMP	TEMPERATURE
TEMP	TEMPORARY
TH	TERMINAL HEATING
THA	TOTAL HEAT ABSORBED
THR	TERMINAL HEATING RETURN
THR	TOTAL HEAT REJECTED
THS	TERMINAL HEATING SUPPLY
TSP	TOTAL STATIC PRESSURE
TU	(AIR) TERMINAL UNIT
TV	TURNING VANES
TYP	TYPICAL
UH	UNIT HEATER
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
UR	URINAL
UV	UNIT VENTILATOR
V	VALVE
V	VENT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VB	VACUUM BREAKER
VD	VOLUME DAMPER (MANUALLY ADJUSTABLE)
VOL	VOLUME
VFC	VARIABLE FREQUENCY CONTROLLER
VTR	VENT THROUGH ROOF
VTU	VENTURI TERMINAL UNIT
VUV	VERTICAL UNIT VENTILATOR
W	WASTE
W&V	WASTE AND VENT
WAGD	WASTE ANESTHETIC GAS DISPOSAL
WB	WET BULB
WC	WATER CLOSET
WC	WATER COLUMN
WG	WATER GAUGE
WH	WALL HYDRANT
WMSD	WASHING MACHINE SUPPLY AND DRAIN BOX
WPD	WATER PRESSURE DROP
WT	WEIGHT
XFMR	TRANSFORMER

TEMPERATURE CONTROL - PARTIAL SYMBOLS LIST

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
CO2	CARBON DIOXIDE SENSOR	OS	OCCUPANCY SENSOR
CO	CARBON MONOXIDE SENSOR	PT	PRESSURE TRANSMITTER
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	SP	STATIC PRESSURE SENSOR OR PROBE
FM	FLOW METER		VALVE - 2 WAY CONTROL VALVE
	GUARD FOR STAT OR SENSOR		VALVE - 3 WAY CONTROL VALVE
H	HUMIDISTAT OR HUMIDITY SENSOR (AS DEFINED ON TC DRAWINGS)	T	THERMOSTAT OR TEMPERATURE SENSOR (AS DEFINED ON TC DRAWINGS)

NOTE: LIST OF ADDITIONAL SYMBOLS & ABBREVIATIONS ASSOCIATED WITH TEMPERATURE CONTROLS ARE IDENTIFIED ON TC DRAWINGS.

MECHANICAL SYMBOL LIST

PIPING SYMBOLS

SYMBOL	DESCRIPTION
AAV / MV	AIR VENT - AUTOMATIC
	AIR VENT - MANUAL
BFP	BACKFLOW PREVENTER
	CATCH BASIN
	CIRCULATING PUMP
CO	CLEAN OUT - IN FLOOR
CO	CLEAN OUT - FLANGE
	DIRECTION OF FLOW
	DIRECTION OF PITCH - DOWN
	FINNED TUBE RADIATION
	FIRE PROTECTION - SIAMESE CONNECTION - FREE STANDING
	FIRE PROTECTION - SIAMESE CONNECTION - WALL MOUNTED
	FIRE PROTECTION - SPRINKLER HEAD, CONCEALED
	FIRE PROTECTION - SPRINKLER HEAD, PENDANT
	FIRE PROTECTION - SPRINKLER HEAD, UPRIGHT
	FIRE PROTECTION - SPRINKLER HEAD, SIDEWALL
	FLOOR DRAIN
	FLOOR DRAIN - ELEVATION
	FLOOR DRAIN - FUNNEL
	FLOOR DRAIN - FUNNEL, ELEVATION
	FLOW MEASURING DEVICE (FOR TEST AND BALANCING)
FS	FLOW SWITCH
FM	FLOW METER
HB	HOSE BIBB
MH	MANHOLE
	OPEN SITE DRAIN
	PIPE - ANCHOR
	PIPE - CAP OR PLUG
	PIPE - ELBOW DOWN
	PIPE - ELBOW UP
	PIPE - EXPANSION JOINT OR COMPENSATOR
	PIPE - FLANGE
	PIPE - HOSE AND BRAID FLEXIBLE CONNECTION
	PIPE - RUBBER FLEXIBLE CONNECTION
	PIPE - GUIDE
	PIPE - TEE DOWN
	PIPE - TEE UP
	PIPE - UNION
P/T	PRESSURE AND TEMPERATURE TEST PLUG
	PRESSURE GAUGE AND COCK
	REDUCER - CONCENTRIC
	REDUCER - ECCENTRIC
	ROOF/OVERFLOW DRAIN
	STEAM TRAP - FLOAT AND THERMOSTATIC
	STEAM TRAP - BUCKET
	STRAINER
	STRAINER WITH VALVE AND BLOW-OFF
	THERMOMETER
	TRAP
	VALVE - ANGLE
	VALVE - BALL
	VALVE - BUTTERFLY
0.5	VALVE - BALANCE (i.e. BALANCE VALVE TO 0.5 GPM)
0.5	VALVE - COMBINATION BALANCE & FLOW MEASURING (i.e. BALANCE VALVE TO 0.5 GPM)
	VALVE - CHECK
	VALVE - SPRING CHECK
	VALVE - GAS (MANUAL)
	VALVE - GLOBE
	VALVE - ISOLATION
	VALVE - NEEDLE
	VALVE - OS&Y
	VALVE - PLUG
	VALVE - PRESSURE REGULATING
	VALVE - PRESSURE REDUCING
	VALVE - PRESSURE RELIEF
	VALVE - PRESSURE & TEMPERATURE RELIEF
VTR	VENT THROUGH ROOF
WH	WALL HYDRANT

DOUBLE LINE PIPING SYMBOLS

SYMBOL	DESCRIPTION
	FLANGE
	FLEX CONNECTION
	STRAINER - BASKET
	STRAINER - Y TYPE
	VALVE - 2 WAY CONTROL
	VALVE - 3 WAY CONTROL
	VALVE - BUTTERFLY
	VALVE - CHECK
	VALVE - DETECTOR CHECK
	VALVE - OS&Y HORIZONTAL STEM
	VALVE - OS&Y VERTICAL STEM

DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
TU-101	AIR TERMINAL UNIT
TU-101	AIR TERMINAL UNIT WITH HEATING COIL
VTU-101	VENTURI AIR TERMINAL UNIT
VTU-101	VENTURI AIR TERMINAL UNIT WITH HEATING COIL
	DAMPER - HORIZONTAL FIRE (EXISTING, NEW)
	DAMPER - HORIZONTAL FIRE / SMOKE (EXISTING, NEW)
	DAMPER - SMOKE (EXISTING, NEW)
	DAMPER - VERTICAL FIRE (EXISTING, NEW)
	DAMPER - VERTICAL FIRE / SMOKE (EXISTING, NEW)
BDD	DAMPER - BACK DRAFT
M	DAMPER - MOTORIZED
	DAMPER - VOLUME (MANUALLY ADJUSTABLE)
	DIFFUSER - BLANK OFF
	DIFFUSER - LINEAR SLOT
	DIFFUSER - SQUARE OR RECTANGULAR
	DUCT CROSS SECTION - SUPPLY
	DUCT CROSS SECTION - RETURN
	DUCT CROSS SECTION - EXHAUST
	DUCT - FLEXIBLE CONNECTION
	DUCT - FLEXIBLE DUCT
	DUCT TAKE-OFF - ROUND CONICAL
	DUCT TAKE-OFF - RECTANGULAR WITH SHOE TAP
	ELBOW - RECTANGULAR WITH TURNING VANES
	ELBOW - RECTANGULAR/ ROUND SMOOTH RADIUS
	ELBOW DOWN - RECTANGULAR
	ELBOW DOWN - ROUND
	ELBOW UP - RECTANGULAR
	ELBOW UP - ROUND
	FAN - AXIAL
	FAN - CENTRIFUGAL (ELEVATION)
	HEATING COIL
D	INCLINED DROP IN DIRECTION OF AIRFLOW
R	INCLINED RISE IN DIRECTION OF AIRFLOW
	INTAKE OR RELIEF HOOD
	REGISTER - RETURN OR EXHAUST
	REGISTER - RETURN WITH BOOT
	REGISTER - TRANSFER GRILLE
	ROOF EXHAUST FAN
	TRANSITION - CONCENTRIC
	TRANSITION - ECCENTRIC
	UNIT HEATER - HORIZONTAL THROW
	UNIT HEATER - VERTICAL THROW

DOUBLE LINE DUCTWORK SYMBOLS

SYMBOL	DESCRIPTION
	DUCT TAKE-OFF - RECTANGULAR WITH SHOE TAP
	DUCT TAKE-OFF - ROUND CONICAL
	ELBOW - RECTANGULAR WITH TURNING VANES
	ELBOW - RECTANGULAR SHORT RADIUS WITH SPLITTER VANES
	ELBOW - ROUND
	ELBOW - RECTANGULAR SMOOTH RADIUS
	ELBOW DOWN - RECTANGULAR
	ELBOW DOWN - ROUND
	ELBOW UP - RECTANGULAR
	ELBOW UP - ROUND
	HEATING COIL
D	INCLINED DROP IN DIRECTION OF AIRFLOW
R	INCLINED RISE IN DIRECTION OF AIRFLOW
	TRANSITION - CONCENTRIC
	TRANSITION - ECCENTRIC

MECHANICAL DRAWING INDEX

SHEET NO.	SHEET TITLE
M0.1	MECHANICAL STANDARDS AND DRAWING INDEX
MD1.00	UNDERGROUND PLUMBING DEMOLITION PLAN
MD2.0	LOWER LEVEL PLUMBING DEMOLITION PLAN
MD2.1	FIRST FLOOR PLUMBING DEMOLITION PLAN
MD2.2	SECOND FLOOR PLUMBING DEMOLITION PLAN
MD3.1	FIRST FLOOR HVAC PIPING DEMOLITION PLAN
MD3.2	SECOND FLOOR HVAC PIPING DEMOLITION PLAN
MD4.0	LOWER LEVEL SHEET METAL DEMOLITION PLAN
MD4.1	FIRST FLOOR SHEET METAL DEMOLITION PLAN
MD4.2	SECOND FLOOR SHEET METAL DEMOLITION PLAN
MD4.3	ROOF MECHANICAL DEMOLITION PLAN
M2.00	UNDERGROUND PLUMBING PLAN
M2.0	LOWER LEVEL PLUMBING PLAN
M2.0-ALT	LOWER LEVEL PLUMBING PLAN - ALTERNATE
M2.1	FIRST FLOOR PLUMBING PLAN
M2.1-ALT	FIRST FLOOR PLUMBING PLAN - ALTERNATE
M2.2	SECOND FLOOR PLUMBING PLAN
M3.0	LOWER LEVEL HVAC PIPING PLAN
M3.1	FIRST FLOOR HVAC PIPING PLAN
M3.2	SECOND FLOOR HVAC PIPING PLAN
M4.0	LOWER LEVEL SHEET METAL PLAN
M4.1	FIRST FLOOR SHEET METAL PLAN
M4.2	SECOND FLOOR SHEET METAL PLAN
M4.3	ROOF MECHANICAL PLAN
M5.1	PLUMBING ENLARGED PLANS
M5.2	MECHANICAL DEMOLITION AND NEW WORK PLANS-ALTERNATE 2
M6.1	MECHANICAL DETAILS
M6.2	MECHANICAL DETAILS
M6.3	MECHANICAL DETAILS
M6.4	MECHANICAL DETAILS
M7.1	MECHANICAL SCHEDULES
M7.2	MECHANICAL SCHEDULES
M7.3	MECHANICAL SCHEDULES
M7.4	MECHANICAL SCHEDULES
M8.1	TEMPERATURE CONTROL STANDARDS AND GENERAL NOTES
M8.2	TEMPERATURE CONTROLS
M8.3	TEMPERATURE CONTROLS

STANDARD METHODS OF NOTATION

S-1 10# 350-4	SUPPLY DIFFUSER WITH SCHEDULE TAG "1", 10" DIAMETER NECK SIZE 350 CFM TYPICAL FOR 4
R-1 22x22 640-2	RETURN REGISTER WITH SCHEDULE TAG "1", 22"x 22" NECK SIZE 640 CFM TYPICAL FOR 2 EXHAUST REGISTER E DESIGNATION SIMILAR.
TU-101	AIR TERMINAL UNIT WITH HEATING COIL NO. 101 WITH SERVICE CLEARANCE SHOWN
VTU-101	VENTURI AIR TERMINAL WITH HEATING COIL NO. 101 WITH SERVICE CLEARANCE SHOWN
8	PIPE DIAMETER NOTATION ALL SIZES IN INCHES
8ø 22x10 18x14ø	DUCT SIZE NOTATION ALL SIZES IN INCHES OVAL DUCT RECTANGULAR DUCT
1	CONSTRUCTION KEY NOTE (NUMBER) OR DEMOLITION KEY NOTE (LETTER)
EF 1	EQUIPMENT DESIGNATION, (i.e. EXHAUST FAN NUMBER 1)
HW-1	PIPING RISER DESIGNATION (i.e. HOT WATER RISER NUMBER 1)
	NEW SYSTEM COMPONENT EXISTING SYSTEM COMPONENT TO REMAIN POINT OF NEW CONNECTION SYMBOL
1 M5.1	SECTION OR PLAN NUMBER SHEET WHERE SECTION IS DRAWN AREA OF ENLARGEMENT PLAN NUMBER SHEET WHERE ENLARGED PLAN IS DRAWN
1 M5.1	SECTION OR PLAN NUMBER SECTION OR ENLARGED PLAN SCALE: 1/8" = 1' - 0" SHEET WHERE SECTION IS CUT OR ENLARGED PLAN IS REFERENCED
SHEET M1.0 SHEET M1.1	MATCH LINE
	HEAVY LINE WEIGHT INDICATES NEW WORK
	LIGHT LINE WEIGHT INDICATES EXISTING EQUIPMENT OR REFERENCED INFORMATION
	GRAY LINE INDICATES BACKGROUND INFORMATION
	DASHED LINES INDICATE PIPING ROUTED BELOW SLAB OR GRADE
	HATCH MARKS INDICATE EQUIPMENT OR MATERIALS TO BE DISCONNECTED AND REMOVED.

NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
MECHANICAL STANDARDS AND DRAWING INDEX

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M0.1

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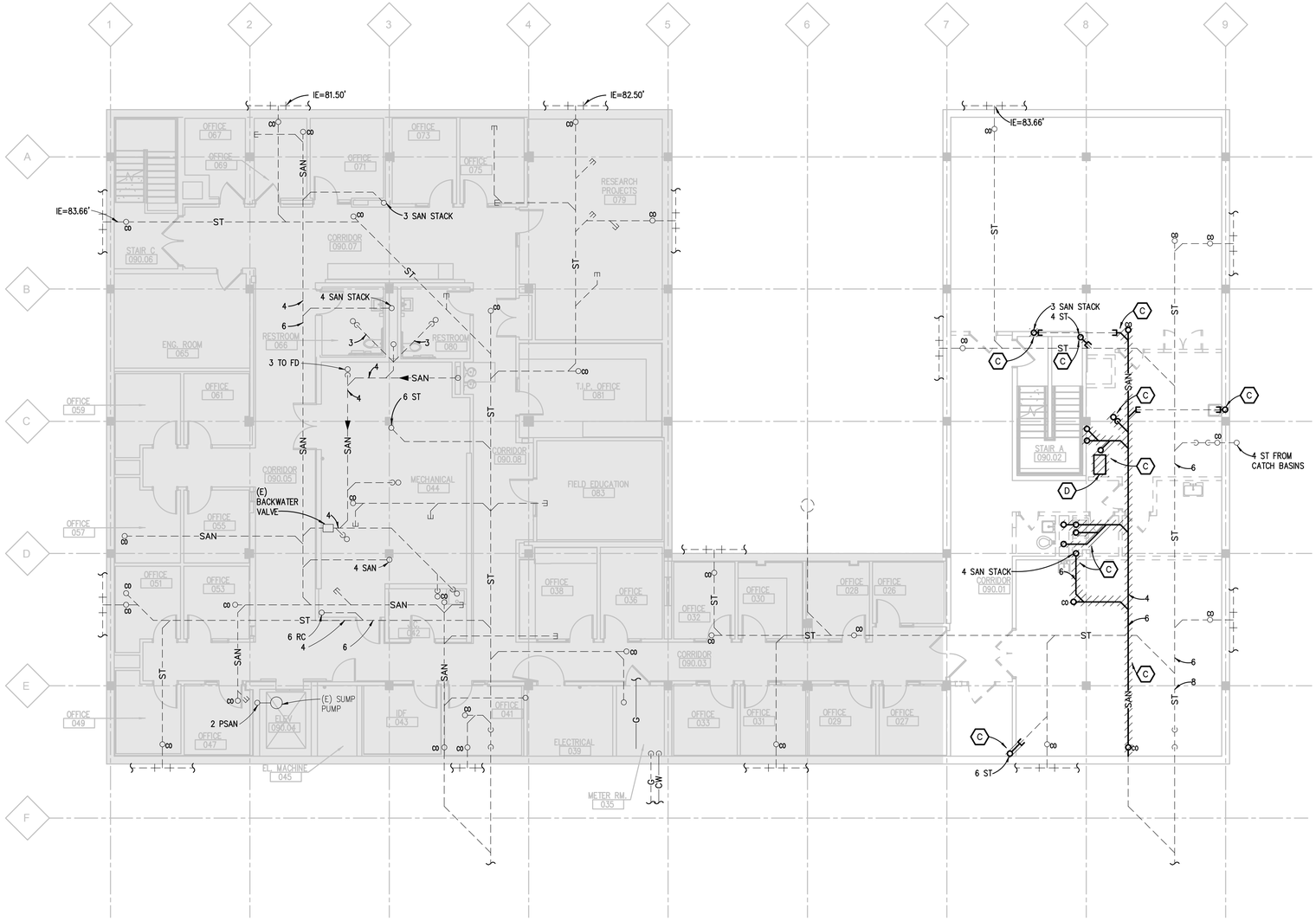

UNDERGROUND PLUMBING DEMOLITION PLAN

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

MECHANICAL GENERAL DEMOLITION NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.
5. OWNER TO RECOVER ALL REFRIGERANT. COORDINATE DEMOLITION WITH OWNER.
6. REFERENCE THE HAZARDOUS MATERIAL REPORTS FOR MATERIALS TO BE REMOVED BY OWNER.

DEMOLITION KEY NOTES:

A. SCOPE OF WORK INCLUDES REPLACEMENT OF HVAC, PLUMBING, AND FIRE PROTECTION SYSTEMS. REMOVE ALL EXISTING HVAC, PLUMBING AND FIRE PROTECTION EQUIPMENT, DUCTWORK, PIPING, HANGERS, CONTROLS, AND ASSOCIATED COMPONENTS COMPLETE UNLESS NOTED OTHERWISE ON THESE DRAWINGS. NOTE NOT ALL DUCTWORK, PIPING, AND EQUIPMENT IS INDICATED ON THESE DRAWINGS. VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS TO BE REMOVED.

B. REMOVE EXISTING IRRIGATION VACUUM BREAKER AND ASSOCIATED PIPING.

C. SAWCUT EXISTING FLOOR AS REQUIRED AND REMOVE SECTION OF UNDERGROUND PIPING. PREPARE FOR NEW CONNECTION OR CAP AS INDICATED. PATCH FLOOR TO MATCH EXISTING GRADE AND FINISH.

D. REMOVE EXISTING GREASE INTERCEPTOR COMPLETE.

E. REMOVE RAIN CONDUCTOR PIPING AS INDICATED. PREPARE EXISTING TO REMAIN FOR NEW CONNECTION.

F. REMOVE EXISTING HOSE BIB AND ASSOCIATED PIPING COMPLETE. PATCH EXTERIOR WALL TO MATCH EXISTING.

G. EXISTING 4 VTR TO REMAIN. PREPARE FOR NEW CONNECTION.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
UNDERGROUND PLUMBING DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
MD1.00

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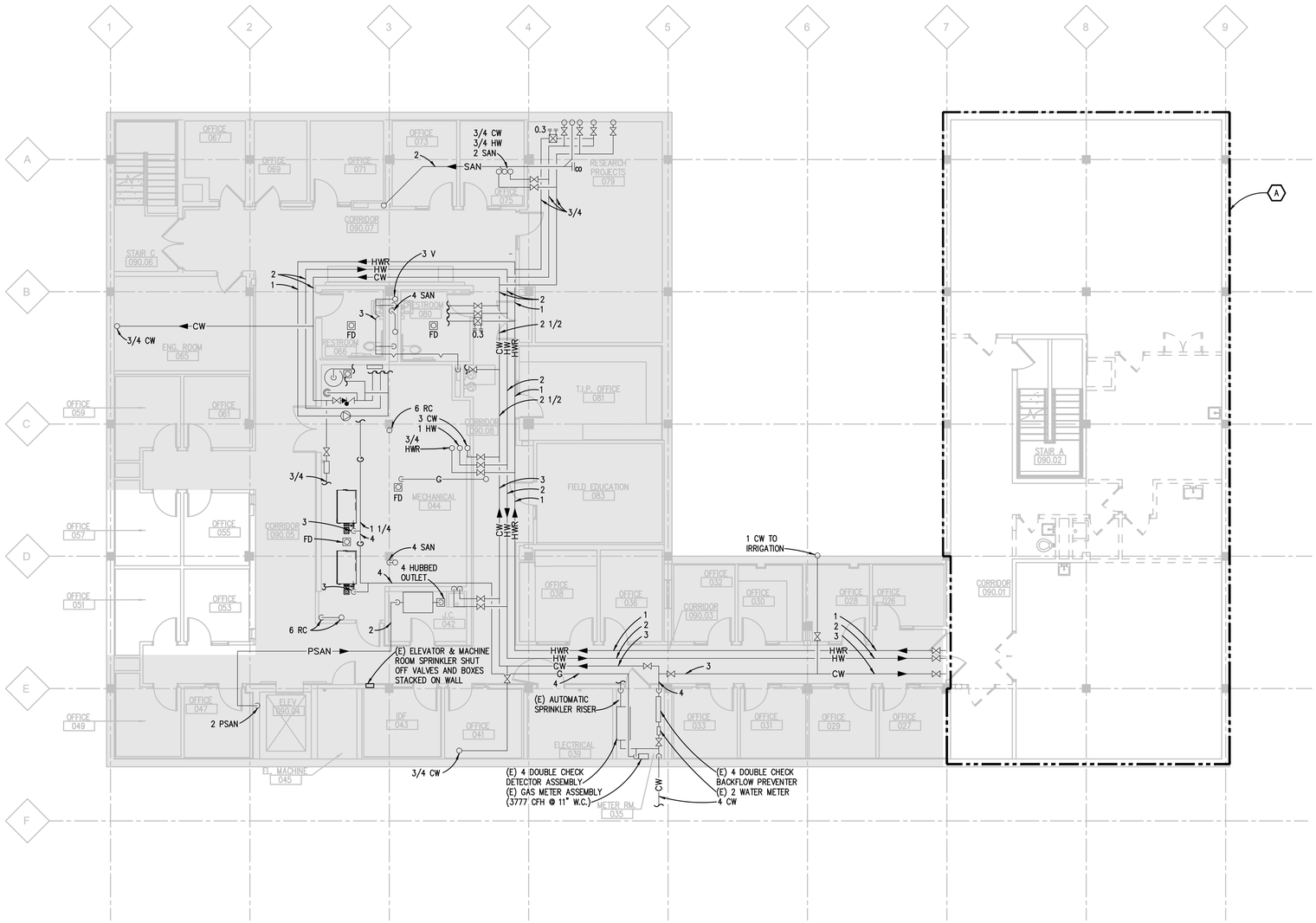

LOWER LEVEL PLUMBING DEMOLITION PLAN

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

MECHANICAL GENERAL DEMOLITION NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
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5. OWNER TO RECOVER ALL REFRIGERANT. COORDINATE DEMOLITION WITH OWNER.
6. REFERENCE THE HAZARDOUS MATERIAL REPORTS FOR MATERIALS TO BE REMOVED BY OWNER.

DEMOLITION KEY NOTES:

A. SCOPE OF WORK INCLUDES REPLACEMENT OF HVAC, PLUMBING, AND FIRE PROTECTION SYSTEMS. REMOVE ALL EXISTING HVAC, PLUMBING AND FIRE PROTECTION EQUIPMENT, DUCTWORK, PIPING, HANGERS, CONTROLS, AND ASSOCIATED COMPONENTS COMPLETE UNLESS NOTED OTHERWISE ON THESE DRAWINGS. NOTE NOT ALL DUCTWORK, PIPING, AND EQUIPMENT IS INDICATED ON THESE DRAWINGS. VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS TO BE REMOVED.

B. REMOVE EXISTING IRRIGATION VACUUM BREAKER AND ASSOCIATED PIPING.

C. SAWCUT EXISTING FLOOR AS REQUIRED AND REMOVE SECTION OF UNDERGROUND PIPING. PREPARE FOR NEW CONNECTION OR CAP AS INDICATED. PATCH FLOOR TO MATCH EXISTING GRADE AND FINISH.

D. REMOVE EXISTING GREASE INTERCEPTOR COMPLETE.

E. REMOVE RAIN CONDUCTOR PIPING AS INDICATED. PREPARE EXISTING TO REMAIN FOR NEW CONNECTION.

F. REMOVE EXISTING HOSE BIB AND ASSOCIATED PIPING COMPLETE. PATCH EXTERIOR WALL TO MATCH EXISTING.

G. EXISTING 4 VTR TO REMAIN. PREPARE FOR NEW CONNECTION.

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FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
LOWER LEVEL PLUMBING DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
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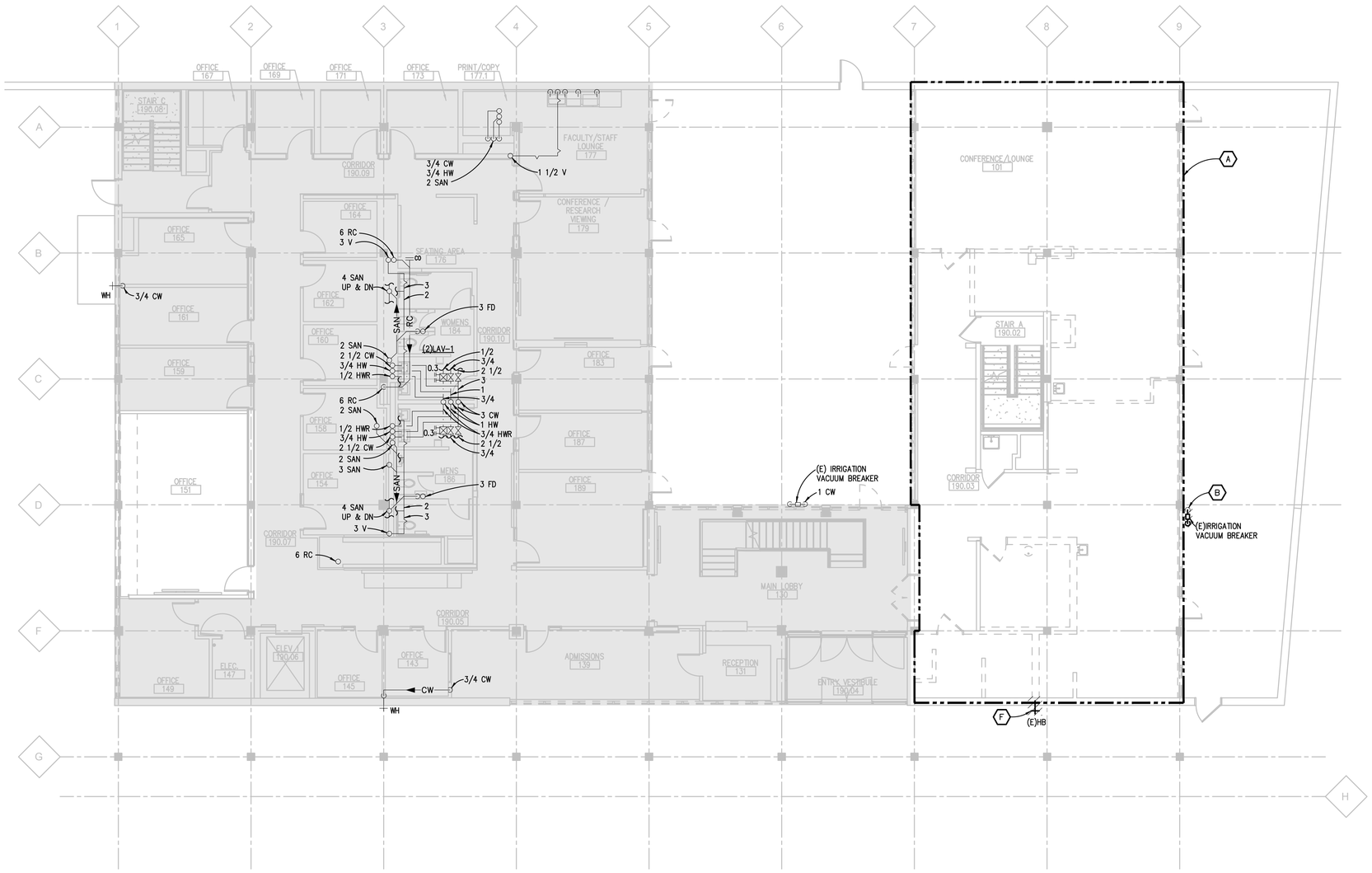

FIRST FLOOR PLUMBING DEMOLITION PLAN

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

MECHANICAL GENERAL DEMOLITION NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
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DEMOLITION KEY NOTES:

A. SCOPE OF WORK INCLUDES REPLACEMENT OF HVAC, PLUMBING, AND FIRE PROTECTION SYSTEMS. REMOVE ALL EXISTING HVAC, PLUMBING AND FIRE PROTECTION EQUIPMENT, DUCTWORK, PIPING, HANGERS, CONTROLS, AND ASSOCIATED COMPONENTS COMPLETE UNLESS NOTED OTHERWISE ON THESE DRAWINGS. NOTE NOT ALL DUCTWORK, PIPING, AND EQUIPMENT IS INDICATED ON THESE DRAWINGS. VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS TO BE REMOVED.

B. REMOVE EXISTING IRRIGATION VACUUM BREAKER AND ASSOCIATED PIPING.

C. SAWCUT EXISTING FLOOR AS REQUIRED AND REMOVE SECTION OF UNDERGROUND PIPING. PREPARE FOR NEW CONNECTION OR CAP AS INDICATED. PATCH FLOOR TO MATCH EXISTING GRADE AND FINISH.

D. REMOVE EXISTING GREASE INTERCEPTOR COMPLETE.

E. REMOVE RAIN CONDUCTOR PIPING AS INDICATED. PREPARE EXISTING TO REMAIN FOR NEW CONNECTION.

F. REMOVE EXISTING HOSE BIB AND ASSOCIATED PIPING COMPLETE. PATCH EXTERIOR WALL TO MATCH EXISTING.

G. EXISTING 4 VTR TO REMAIN. PREPARE FOR NEW CONNECTION.

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Structural Engineer: Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
FIRST FLOOR PLUMBING DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
MD2.1

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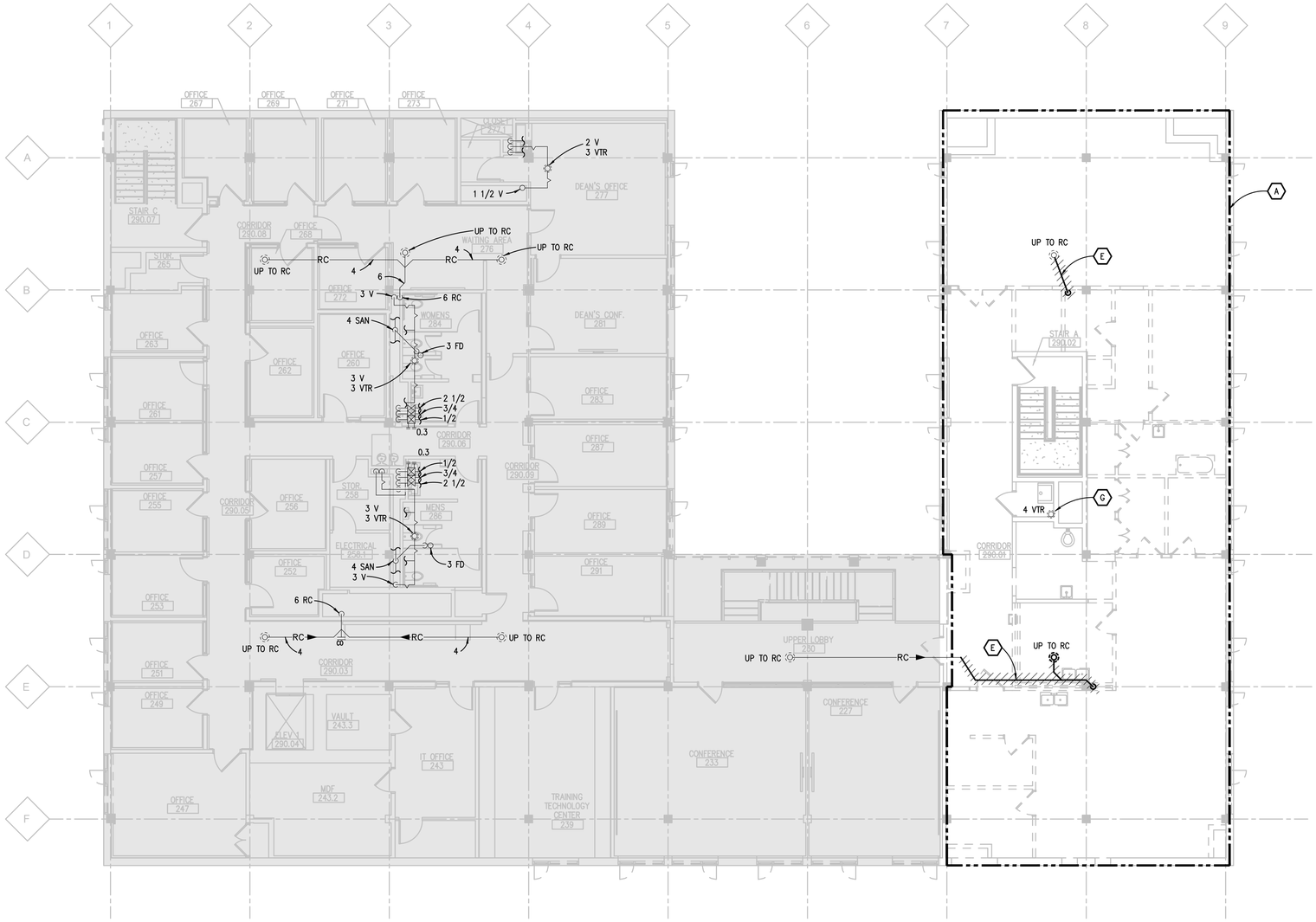

SECOND FLOOR PLUMBING DEMOLITION PLAN

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

MECHANICAL GENERAL DEMOLITION NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.
5. OWNER TO RECOVER ALL REFRIGERANT. COORDINATE DEMOLITION WITH OWNER.
6. REFERENCE THE HAZARDOUS MATERIAL REPORTS FOR MATERIALS TO BE REMOVED BY OWNER.

DEMOLITION KEY NOTES:

A. SCOPE OF WORK INCLUDES REPLACEMENT OF HVAC, PLUMBING, AND FIRE PROTECTION SYSTEMS. REMOVE ALL EXISTING HVAC, PLUMBING AND FIRE PROTECTION EQUIPMENT, DUCTWORK, PIPING, HANGERS, CONTROLS, AND ASSOCIATED COMPONENTS COMPLETE UNLESS NOTED OTHERWISE ON THESE DRAWINGS. NOTE NOT ALL DUCTWORK, PIPING, AND EQUIPMENT IS INDICATED ON THESE DRAWINGS. VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS TO BE REMOVED.

B. REMOVE EXISTING IRRIGATION VACUUM BREAKER AND ASSOCIATED PIPING.

C. SAWCUT EXISTING FLOOR AS REQUIRED AND REMOVE SECTION OF UNDERGROUND PIPING. PREPARE FOR NEW CONNECTION OR CAP AS INDICATED. PATCH FLOOR TO MATCH EXISTING GRADE AND FINISH.

D. REMOVE EXISTING GREASE INTERCEPTOR COMPLETE.

E. REMOVE RAIN CONDUCTOR PIPING AS INDICATED. PREPARE EXISTING TO REMAIN FOR NEW CONNECTION.

F. REMOVE EXISTING HOSE BIB AND ASSOCIATED PIPING COMPLETE. PATCH EXTERIOR WALL TO MATCH EXISTING.

G. EXISTING 4 VTR TO REMAIN. PREPARE FOR NEW CONNECTION.

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5447 Woodward, Detroit, MI

Drawing Title
SECOND FLOOR PLUMBING DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
MD2.2

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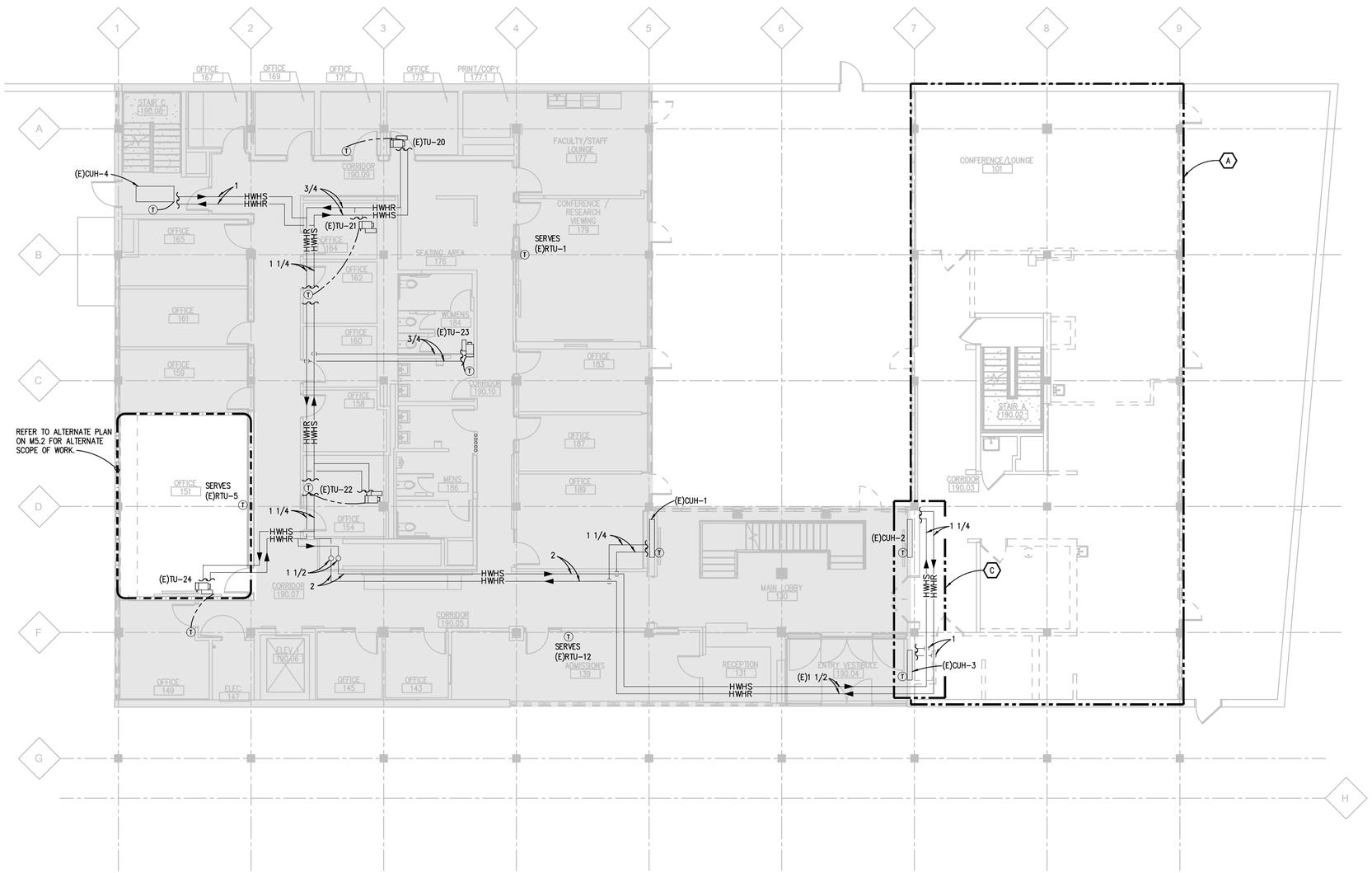

FIRST FLOOR HVAC PIPING DEMOLITION PLAN

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

MECHANICAL GENERAL DEMOLITION NOTES:

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DEMOLITION KEY NOTES:

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B. HWHS & R PIPING TO REMAIN.

C. HWHS & R PIPING SERVING (E)CUH-2&3 TO REMAIN.

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5447 Woodward, Detroit, MI

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Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

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Signature:

Drawing No:
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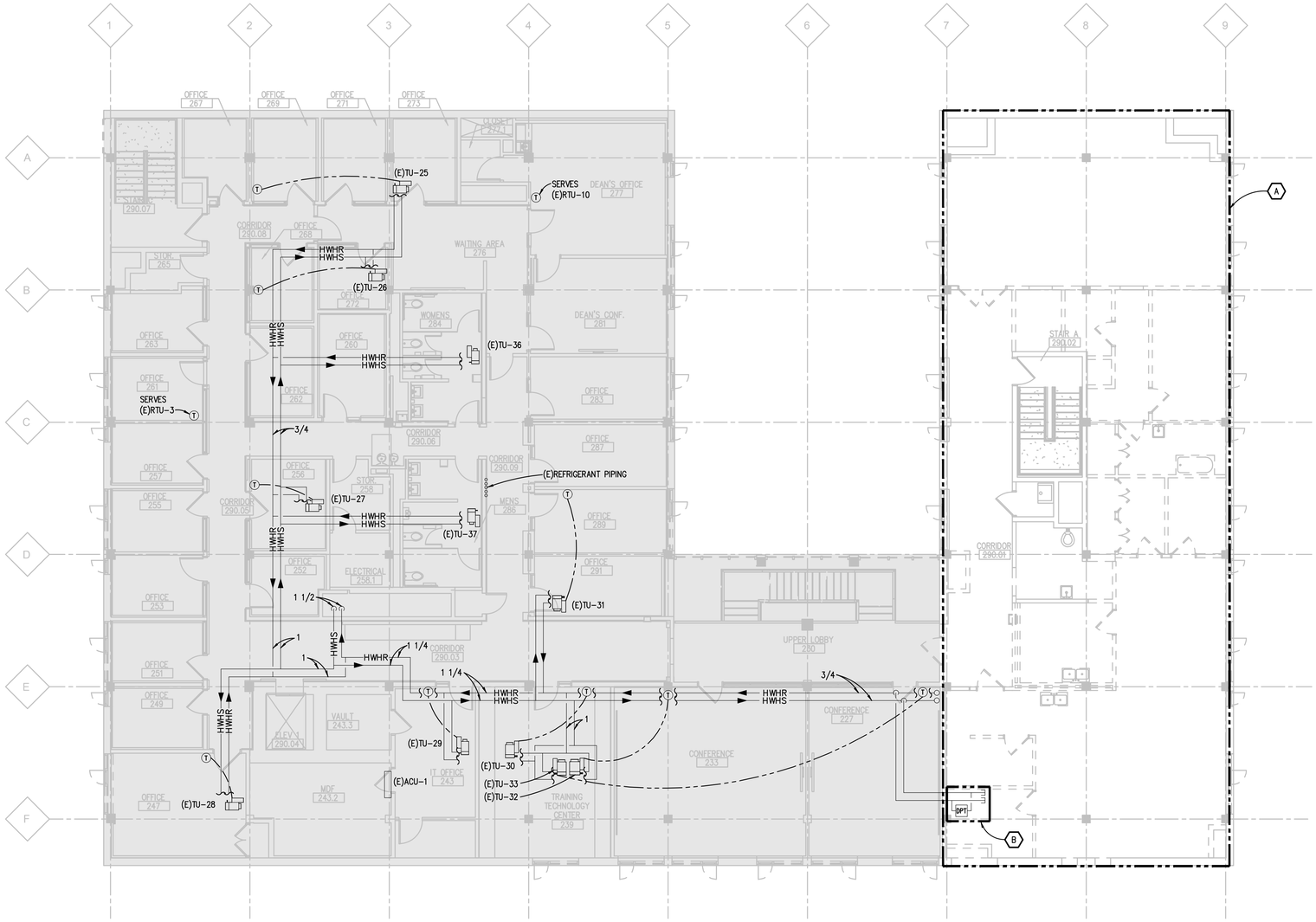

SECOND FLOOR HVAC PIPING DEMOLITION PLAN

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B. HWHS & R PIPING TO REMAIN.

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Project Number: 2013088.22 WSU Project No: 063-301464

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Scale: As Indicated

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Drawing No:
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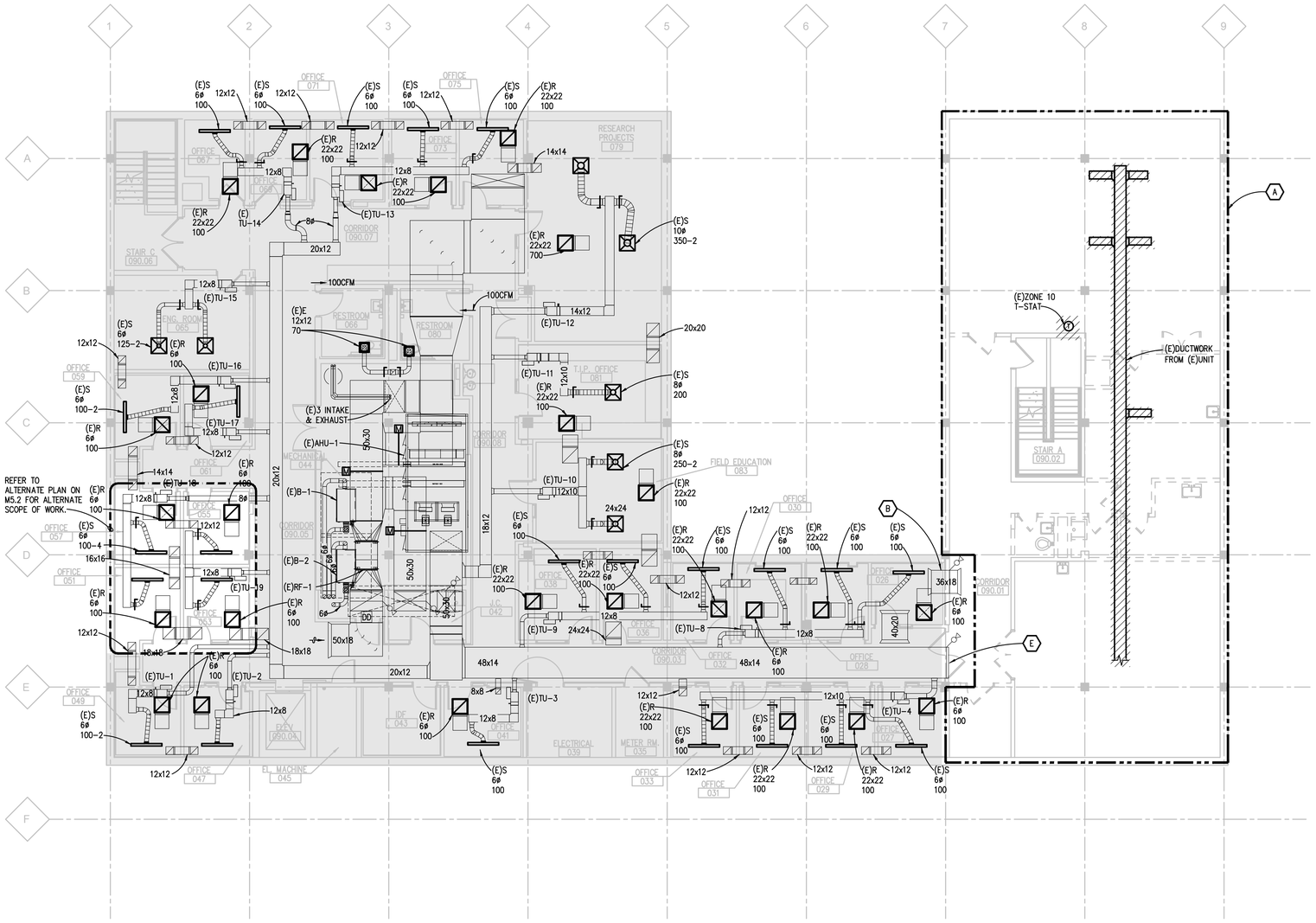

LOWER LEVEL SHEET METAL DEMOLITION PLAN

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

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B. TRANSFER AIR DUCT TO REMAIN.

C. DUCTWORK ASSOCIATED WITH (E)RTU-12 TO REMAIN.

D. REMOVE RTU AND CURB COMPLETE AS INDICATED. COORDINATE WITH ROOFER FOR PATCHING OF ROOF.

E. PREPARE SUPPLY AIR DUCT FOR NEW CONNECTION.

F. REMOVE EXHAUST FAN AND CURB COMPLETE AS INDICATED. COORDINATE WITH ROOFER FOR PATCHING OF ROOF.

G. REMOVE RTU COMPLETE AS INDICATED AND PREPARE ROOF CURB FOR NEW UNIT.

H. REMOVE PORTION OF GAS PIPING AS INDICATED AND PREPARE FOR NEW CONNECTION.

I. REMOVE PORTION OF GAS PIPING AS INDICATED AND CAP.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
LOWER LEVEL SHEET METAL DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

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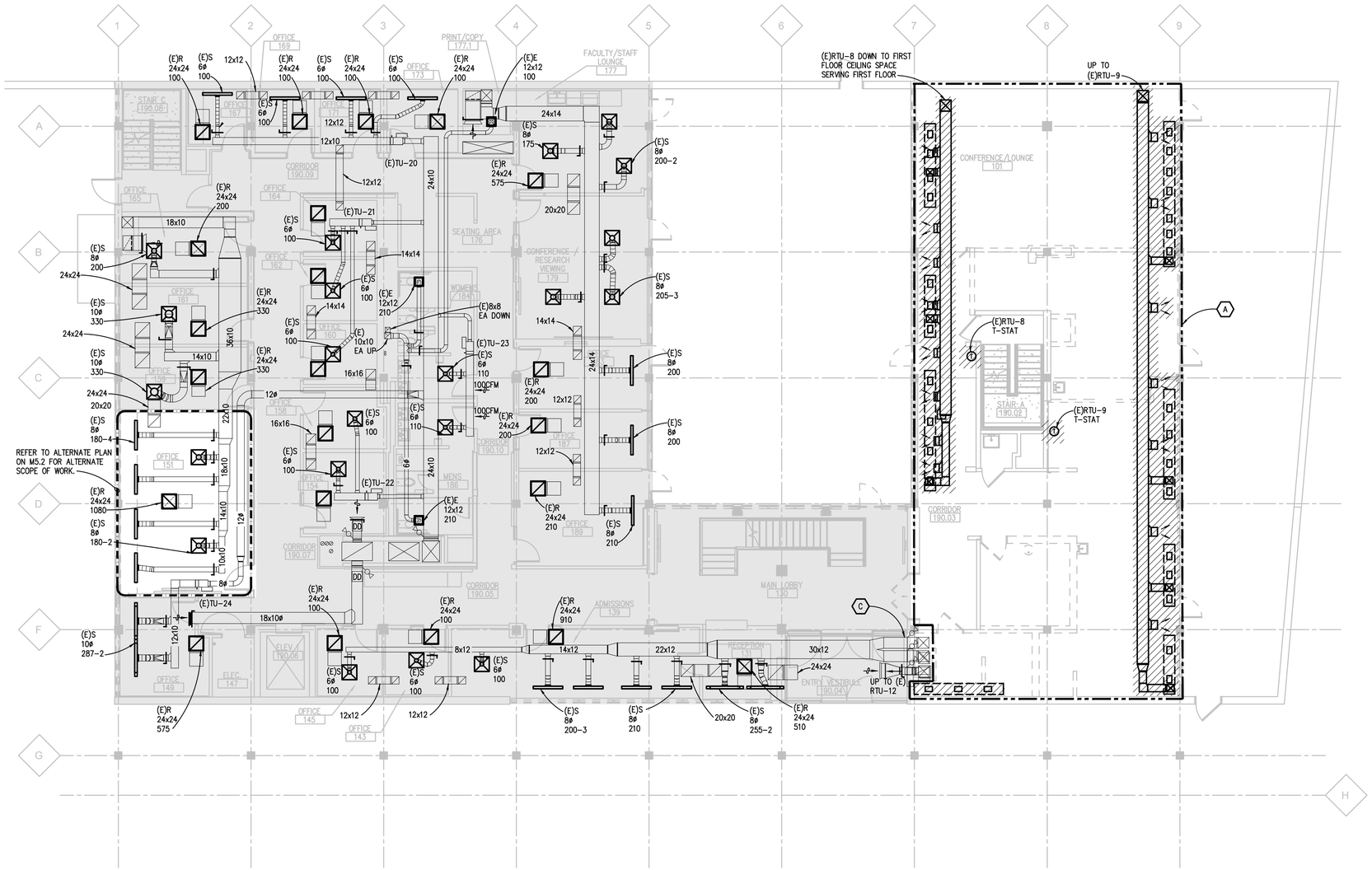

FIRST FLOOR SHEET METAL DEMOLITION PLAN

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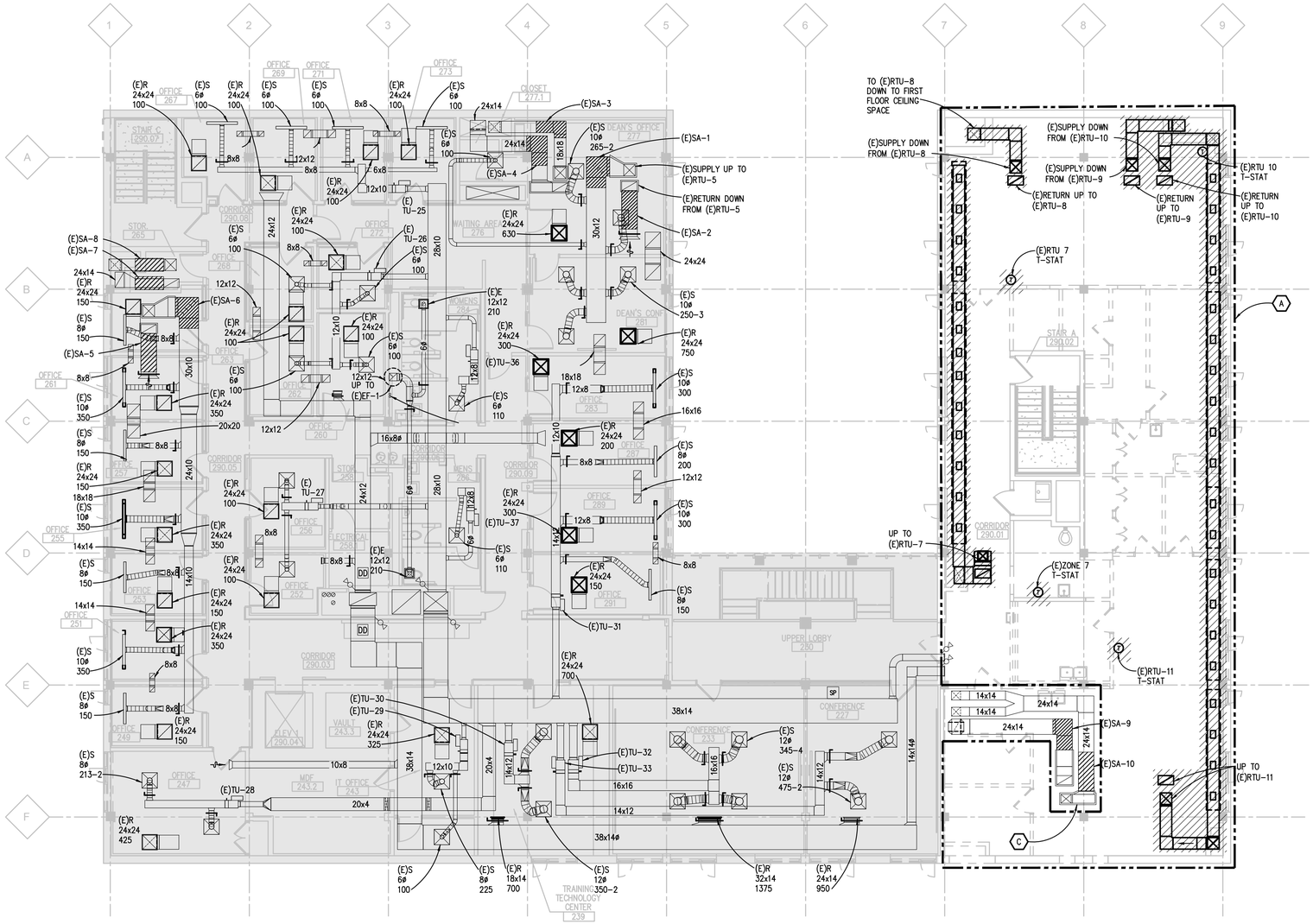

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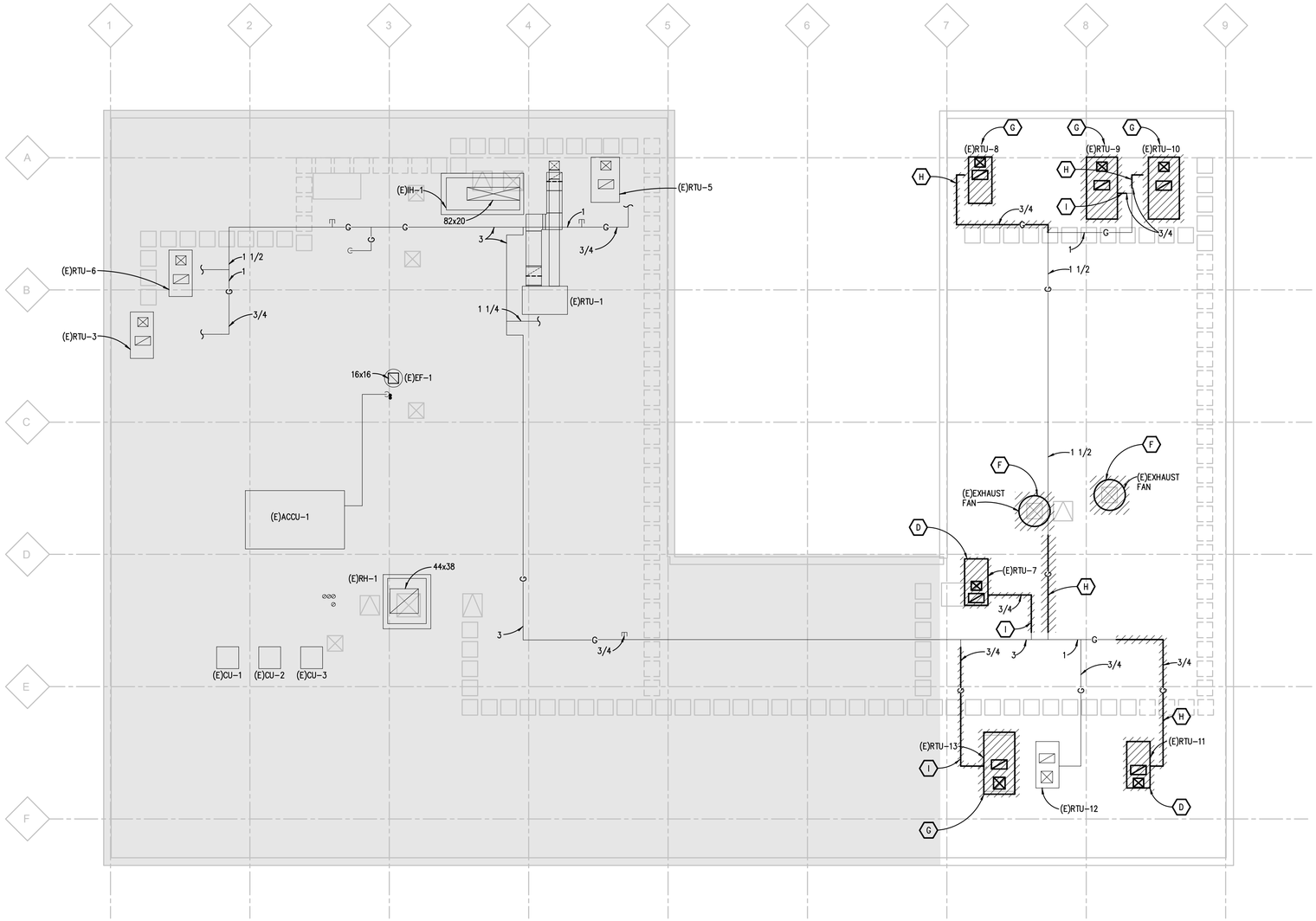

ROOF MECHANICAL DEMOLITION PLAN

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

MECHANICAL GENERAL DEMOLITION NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.
5. OWNER TO RECOVER ALL REFRIGERANT. COORDINATE DEMOLITION WITH OWNER.
6. REFERENCE THE HAZARDOUS MATERIAL REPORTS FOR MATERIALS TO BE REMOVED BY OWNER.

DEMOLITION KEY NOTES:

A. SCOPE OF WORK INCLUDES REPLACEMENT OF HVAC AND PLUMBING SYSTEMS. REMOVE ALL EXISTING HVAC AND PLUMBING EQUIPMENT, DUCTWORK, PIPING, HANGERS, CONTROLS, AND ASSOCIATED COMPONENTS COMPLETE UNLESS NOTED OTHERWISE ON THESE DRAWINGS. NOTE NOT ALL DUCTWORK, PIPING, AND EQUIPMENT IS INDICATED ON THESE DRAWINGS. VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING SYSTEMS TO BE REMOVED.

B. TRANSFER AIR DUCT TO REMAIN.

C. DUCTWORK ASSOCIATED WITH (E)RTU-12 TO REMAIN.

D. REMOVE RTU AND CURB COMPLETE AS INDICATED. COORDINATE WITH ROOFER FOR PATCHING OF ROOF.

E. PREPARE SUPPLY AIR DUCT FOR NEW CONNECTION.

F. REMOVE EXHAUST FAN AND CURB COMPLETE AS INDICATED. COORDINATE WITH ROOFER FOR PATCHING OF ROOF.

G. REMOVE RTU COMPLETE AS INDICATED AND PREPARE ROOF CURB FOR NEW UNIT.

H. REMOVE PORTION OF GAS PIPING AS INDICATED AND PREPARE FOR NEW CONNECTION.

I. REMOVE PORTION OF GAS PIPING AS INDICATED AND CAP.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ROOF MECHANICAL DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
MD4.3

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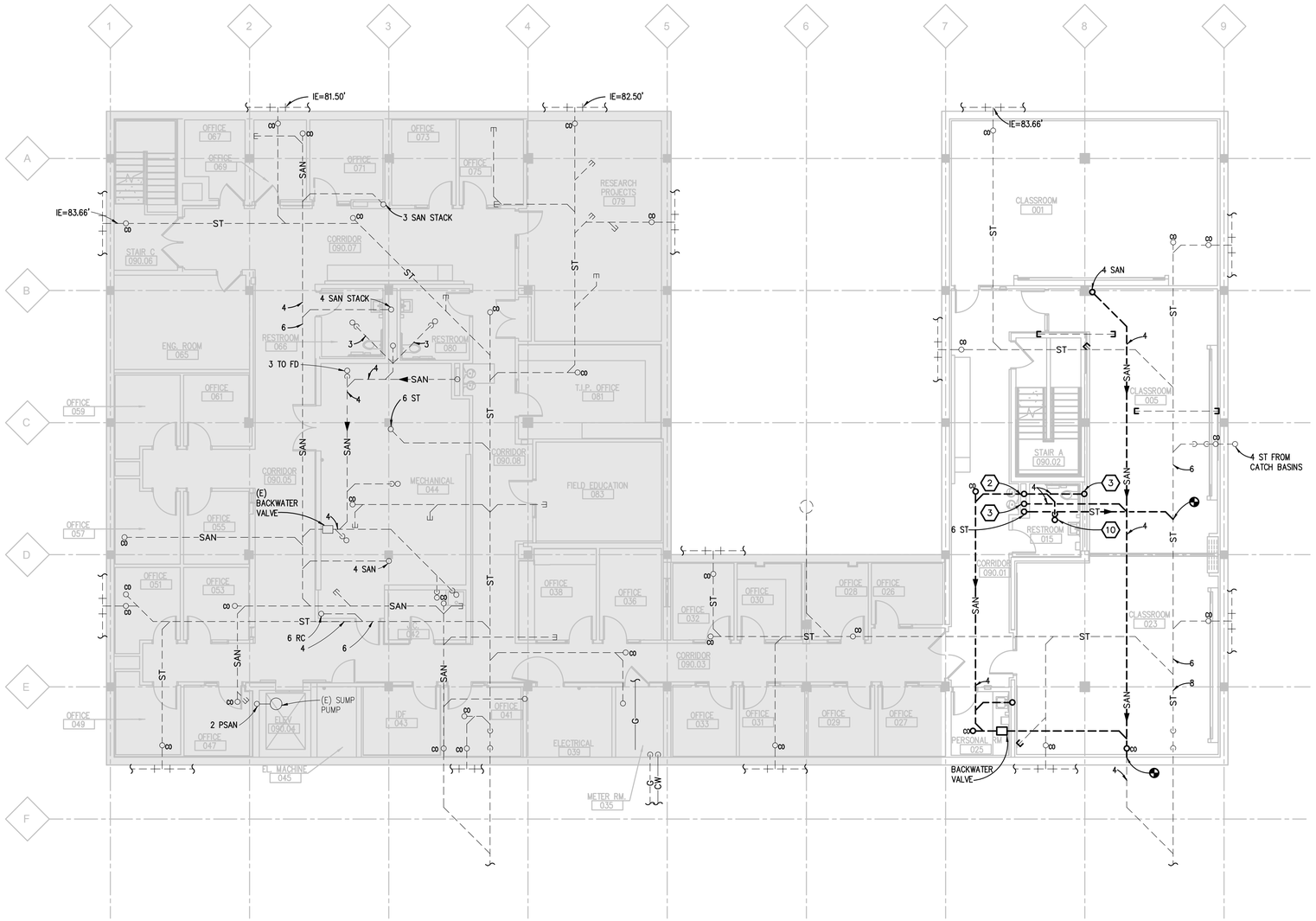

UNDERGROUND PLUMBING PLAN

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

PLUMBING GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
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3. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.
7. HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
8. PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
9. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
10. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".

CONSTRUCTION KEY NOTES:

1. 3 SAN TO SERVICE SINK.
2. 3 SAN TO ELECTRIC WATER COOLER.
3. 4 SAN TO CHASE.
4. 3/4 CW, 3/4 HW & 2 SAN TO SINK ABOVE.
5. 1 1/2 CW, 1/2 HW & 1/2 HWR TO TOILET ROOM.
6. 1 1/2 SAN TO ELECTRIC WATER COOLER.
7. PROVIDE COMPLETE AUTOMATIC WET PIPE SPRINKLER SYSTEM PER NFPA 13 AND OWNERS INSURING AGENCY IN AREA INDICATED.
8. CONNECT NEW VACUUM BREAKER ASSEMBLY TO EXISTING SPRINKLER SYSTEM.
9. PROVIDE ISOLATION VALVES IN CW & HW PIPING SERVING EXISTING SERVICE SINK.
10. 3 SAN TO FLOOR DRAIN.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
UNDERGROUND PLUMBING PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M2.00

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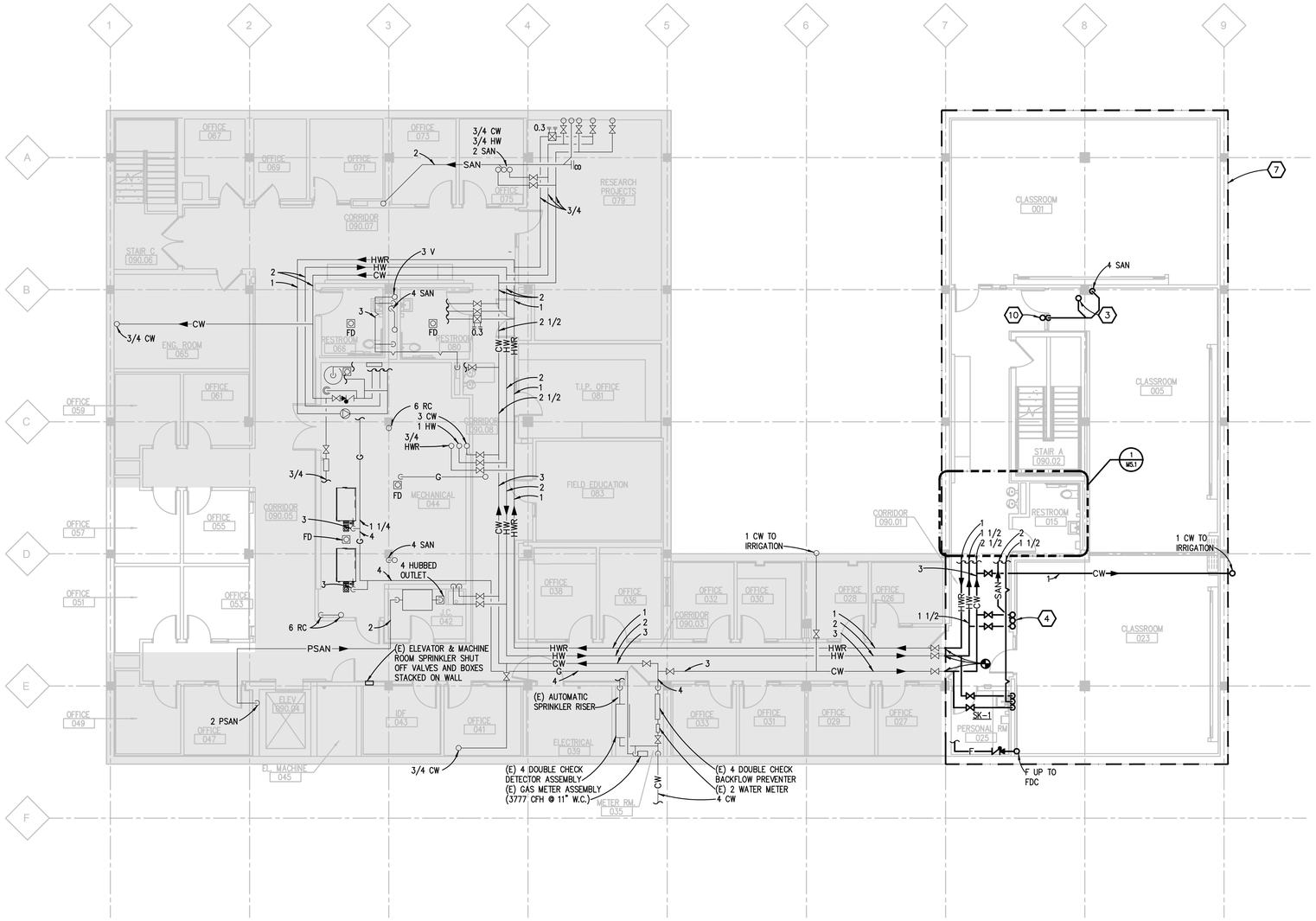

LOWER LEVEL PLUMBING PLAN

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

PLUMBING GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
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5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.
7. HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
8. PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
9. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
10. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".

CONSTRUCTION KEY NOTES:

1. 3 SAN TO SERVICE SINK.
2. 3 SAN TO ELECTRIC WATER COOLER.
3. 4 SAN TO CHASE.
4. 3/4 CW, 3/4 HW & 2 SAN TO SINK ABOVE.
5. 1 1/2 CW, 1/2 HW & 1/2 HWR TO TOILET ROOM.
6. 1 1/2 SAN TO ELECTRIC WATER COOLER.
7. PROVIDE COMPLETE AUTOMATIC WET PIPE SPRINKLER SYSTEM PER NFPA 13 AND OWNERS INSURING AGENCY IN AREA INDICATED.
8. CONNECT NEW VACUUM BREAKER ASSEMBLY TO EXISTING SPRINKLER SYSTEM.
9. PROVIDE ISOLATION VALVES IN CW & HW PIPING SERVING EXISTING SERVICE SINK.
10. 3 SAN TO FLOOR DRAIN.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
LOWER LEVEL PLUMBING PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M2.0

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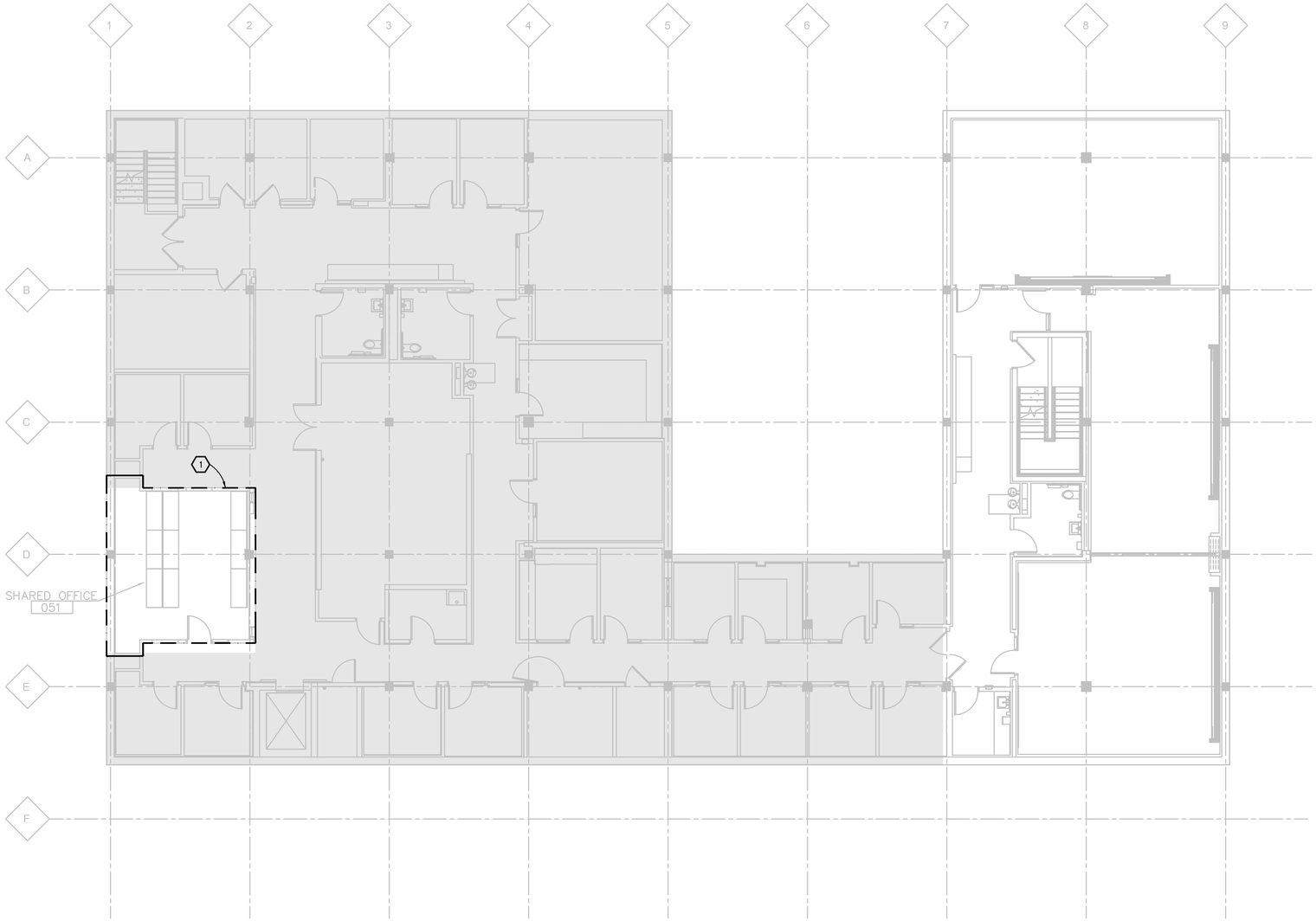

LOWER LEVEL PLUMBING PLAN - ALTERNATE

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

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CONSTRUCTION KEY NOTES:

1. EXTEND/MODIFY FIRE PROTECTION SYSTEM AND ADD SPRINKLER HEADS AS REQUIRED PER NFPA 13 FOR MODIFICATION OF ROOMS. MATCH SPRINKLER HEADS TO EXISTING SPACES.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
LOWER LEVEL PLUMBING PLAN - ALTERNATE

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M2.0-ALT

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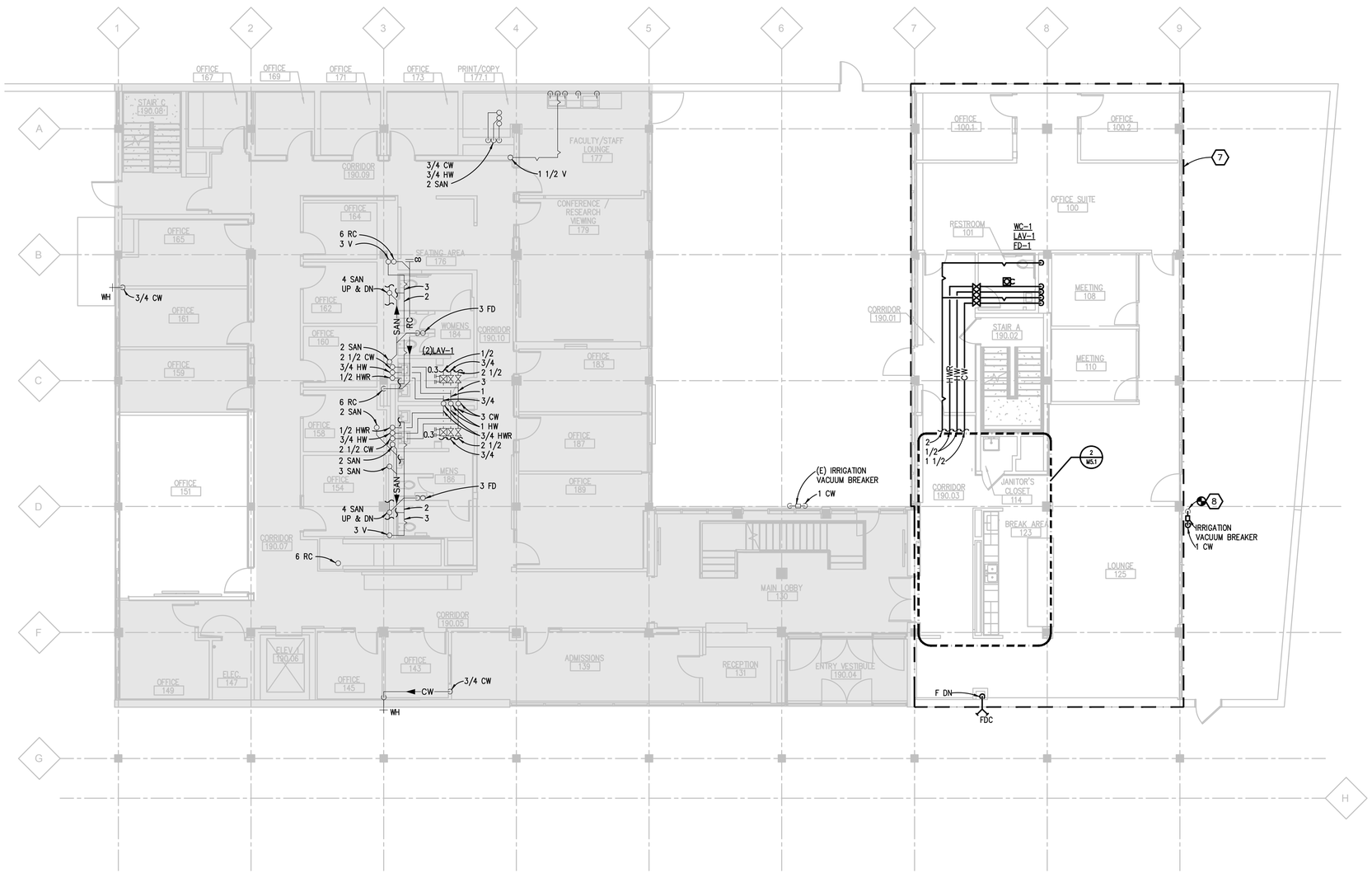

FIRST FLOOR PLUMBING PLAN

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

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CONSTRUCTION KEY NOTES:

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
FIRST FLOOR PLUMBING PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M2.1

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FIRST FLOOR PLUMBING PLAN - ALTERNATE

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

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FOR BIDS	20 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
FIRST FLOOR PLUMBING PLAN - ALTERNATE

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M2.1-ALT

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SECOND FLOOR PLUMBING PLAN

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

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4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.
7. HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
8. PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
9. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
10. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".

CONSTRUCTION KEY NOTES:

1. 3 SAN TO SERVICE SINK.
2. 3 SAN TO ELECTRIC WATER COOLER.
3. 4 SAN TO CHASE.
4. 3/4 CW, 3/4 HW & 2 SAN TO SINK ABOVE.
5. 1 1/2 CW, 1/2 HW & 1/2 HWR TO TOILET ROOM.
6. 1 1/2 SAN TO ELECTRIC WATER COOLER.
7. PROVIDE COMPLETE AUTOMATIC WET PIPE SPRINKLER SYSTEM PER NFPA 13 AND OWNERS INSURING AGENCY IN AREA INDICATED.
8. CONNECT NEW VACUUM BREAKER ASSEMBLY TO EXISTING SPRINKLER SYSTEM.
9. PROVIDE ISOLATION VALVES IN CW & HW PIPING SERVING EXISTING SERVICE SINK.
10. 3 SAN TO FLOOR DRAIN.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
SECOND FLOOR PLUMBING PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M2.2

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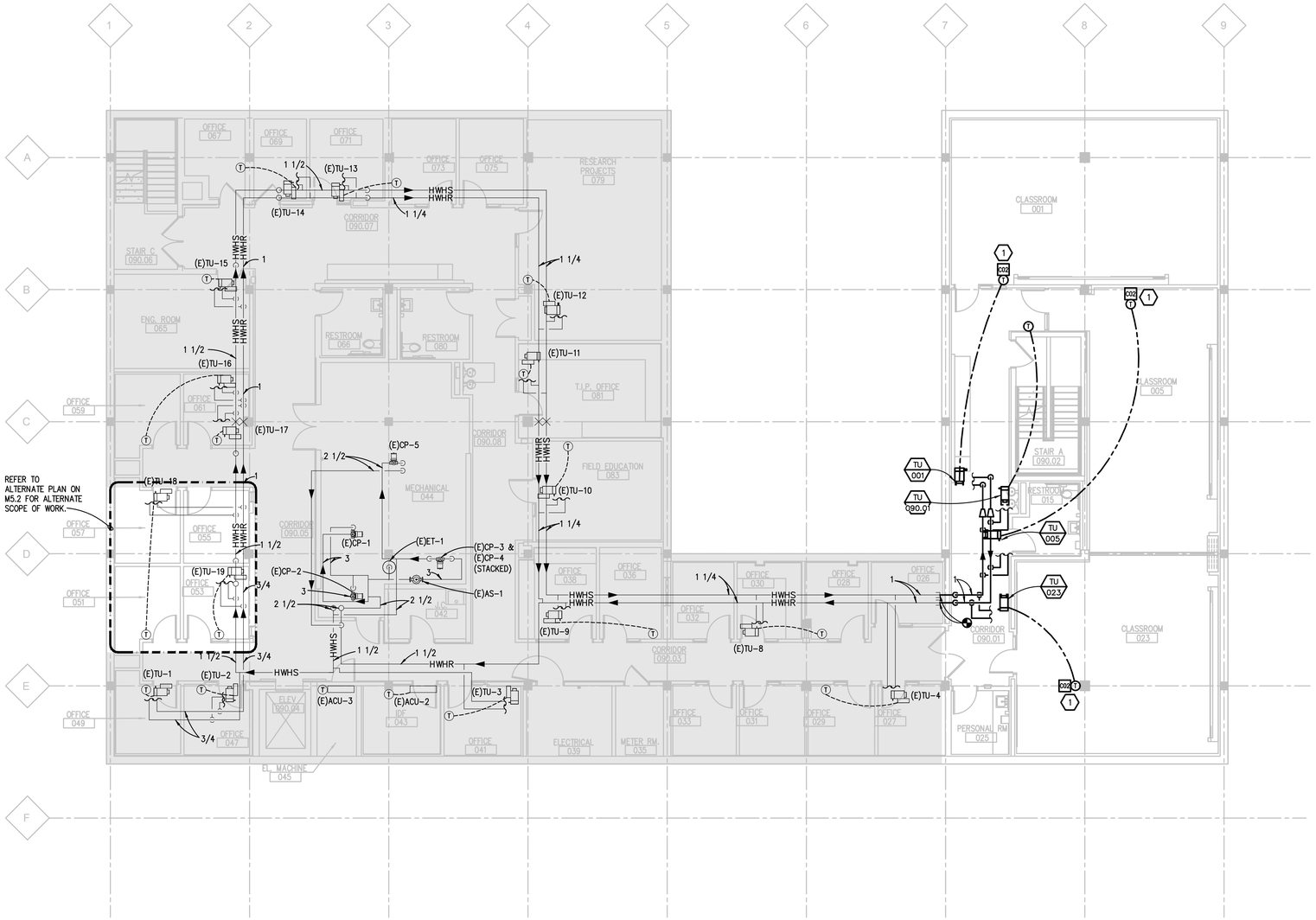

LOWER LEVEL HVAC PIPING PLAN

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

NOTE:

1. REFER TO SHEET M7.5 FOR AIR TERMINAL UNIT SCHEDULE.

HVAC PIPING GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
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5. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
6. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
7. COORDINATE LOCATION OF DUCT-MOUNTED HYDRONIC DEVICES WITH SHEET METAL TRADES.
8. BRANCH PIPING SERVING TERMINAL UNIT HEATING COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING MORE THAN ONE TERMINAL UNIT HEATING COIL SHALL BE 1" UNLESS OTHERWISE NOTED.
9. MOUNT THERMOSTATS 48" A.F.F., UNLESS OTHERWISE NOTED. LOCATE AS CLOSE AS POSSIBLE TO DOOR WHEN INDICATED NEAR DOOR. COORDINATE EXACT LOCATION WITH ALL OTHER TRADES.

CONSTRUCTION KEY NOTES:

1. CARBON DIOXIDE SENSOR MOUNTED ABOVE TEMPERATURE SENSOR.
2. NEW TEMPERATURE CONTROL PANEL.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
LOWER LEVEL HVAC PIPING PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M3.0

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FIRST FLOOR HVAC PIPING PLAN

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

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FOR BIDS	20 JUN 2019
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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
FIRST FLOOR HVAC PIPING PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
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SECOND FLOOR HVAC PIPING PLAN

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FOR BIDS	20 JUN 2019
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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
SECOND FLOOR HVAC PIPING PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
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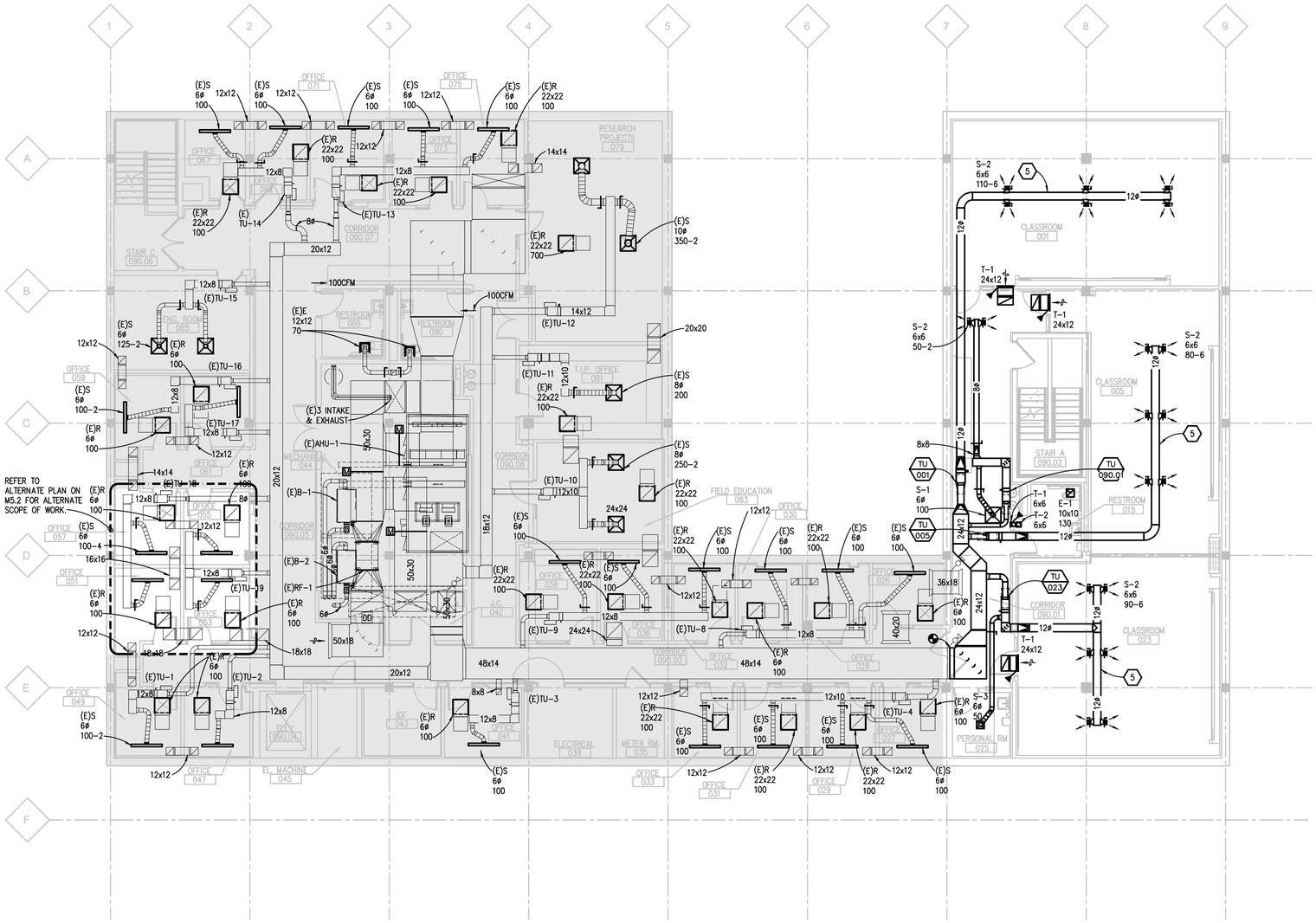

LOWER LEVEL SHEET METAL PLAN

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

NOTE:
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CONSTRUCTION KEY NOTES:

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2. PROVIDE CURB ADAPTOR AS REQUIRED FOR PROPER CONNECTION TO EXISTING ROOF CURB AND DUCT PENETRATIONS.
3. PROVIDE NEW ROOF CURB. CURB HEIGHT AS REQUIRED TO ACCOMMODATE DUCT TRANSITIONS.
4. MINIMUM 22" VERTICAL SUBDUCT.
5. DUCT TO BE AS HIGH AS POSSIBLE ABOVE LIGHTS. COORDINATE WITH LIGHTS.
6. DUCT SILENCER IN VERTICAL DUCT AS HIGH AS POSSIBLE.

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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
LOWER LEVEL SHEET METAL PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M4.0

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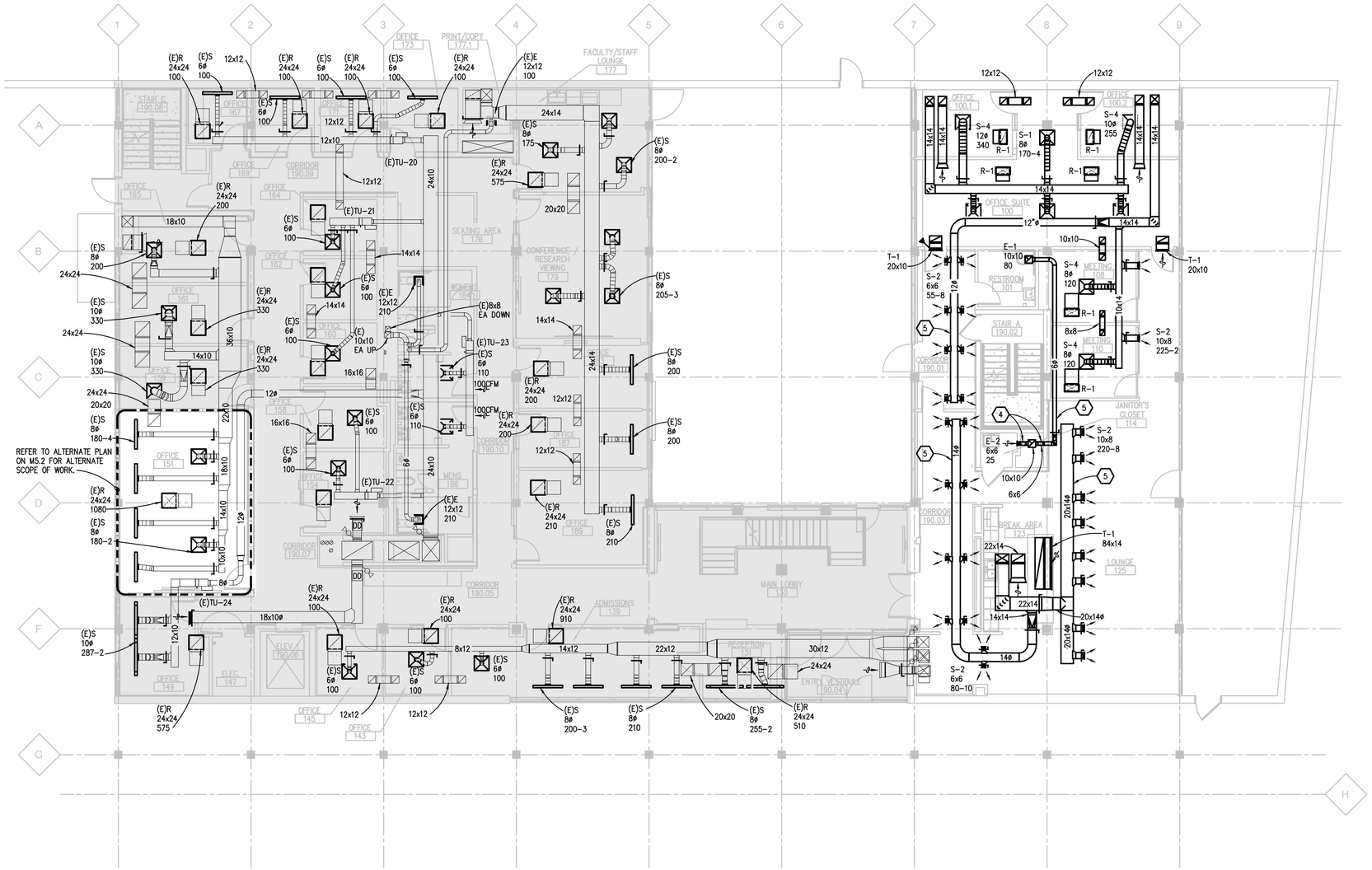

FIRST FLOOR SHEET METAL PLAN

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Project
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5447 Woodward, Detroit, MI

Drawing Title
FIRST FLOOR SHEET METAL PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

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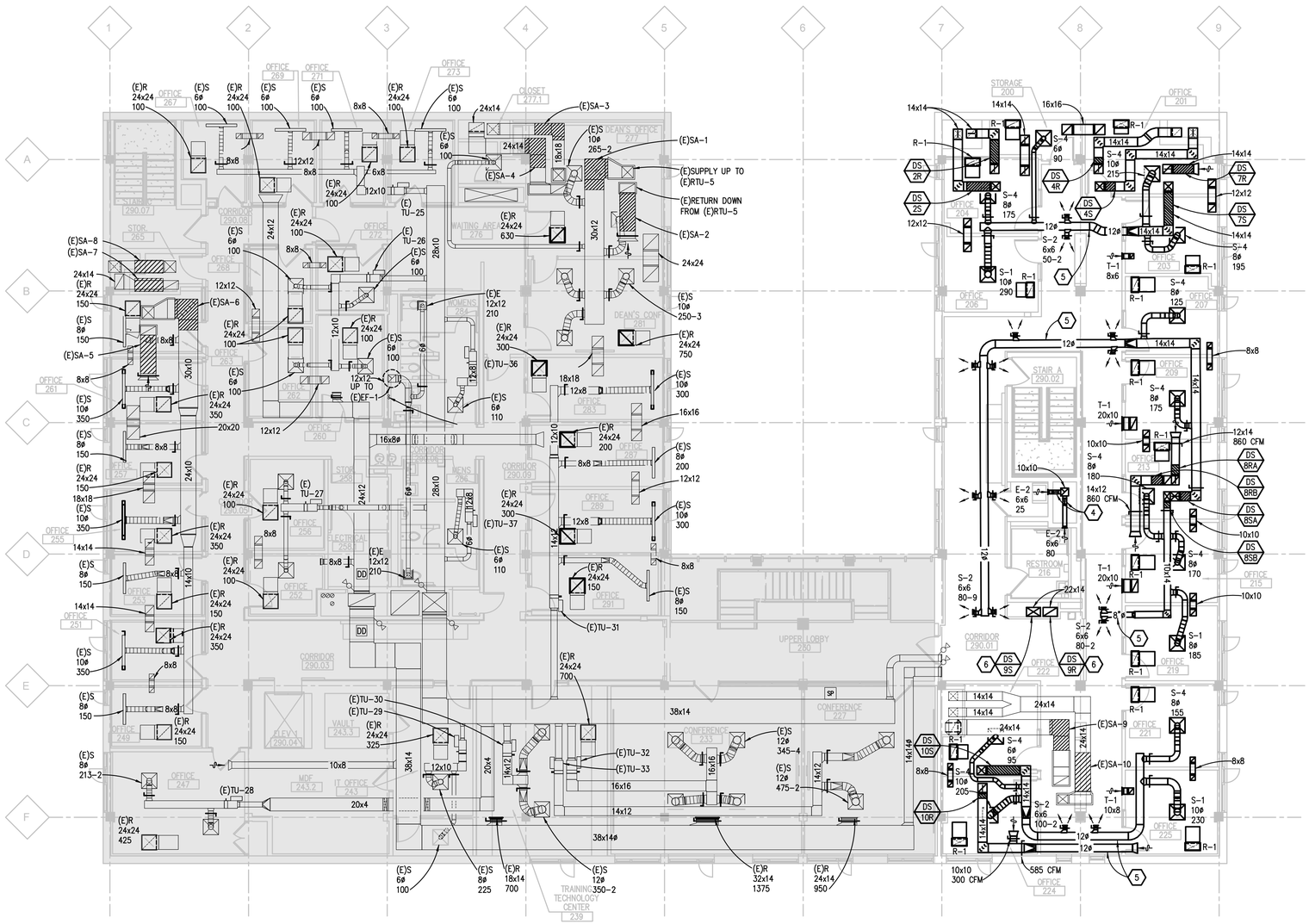

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
SECOND FLOOR SHEET METAL PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M4.2

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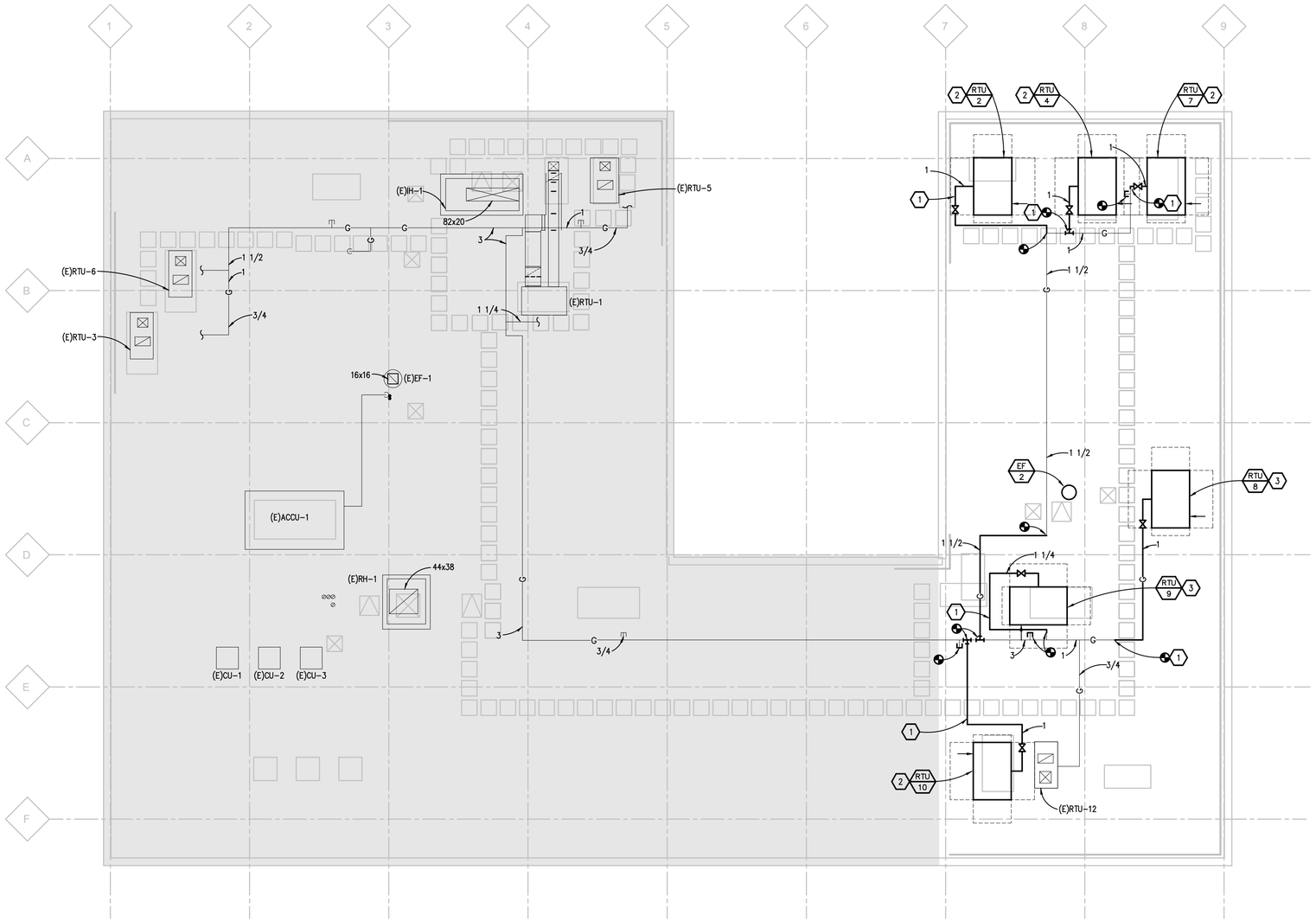
THE FOLLOWING DIMENSION EQUALS ONE INCH WHEN PRINTED TO SCALE. 1"



ROOF MECHANICAL PLAN

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

SHEET METAL GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. DUCTWORK SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. AVOID CUTTING OF CONCRETE WEBS FOR NEW PENETRATIONS.
5. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
6. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
7. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.

CONSTRUCTION KEY NOTES:

1. EXTEND GAS PIPING TO RTU. PROVIDE ISOLATION VALVES, DRIP LEG, AND UNION CONNECTION AT NEW RTU'S.
2. PROVIDE CURB ADAPTOR AS REQUIRED FOR PROPER CONNECTION TO EXISTING ROOF CURB AND DUCT PENETRATIONS.
3. PROVIDE NEW ROOF CURB. CURB HEIGHT AS REQUIRED TO ACCOMMODATE DUCT TRANSITIONS.
4. MINIMUM 22" VERTICAL SUBDUCT.
5. DUCT TO BE AS HIGH AS POSSIBLE ABOVE LIGHTS. COORDINATE WITH LIGHTS.
6. DUCT SILENCER IN VERTICAL DUCT AS HIGH AS POSSIBLE.

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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ROOF MECHANICAL PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M4.3

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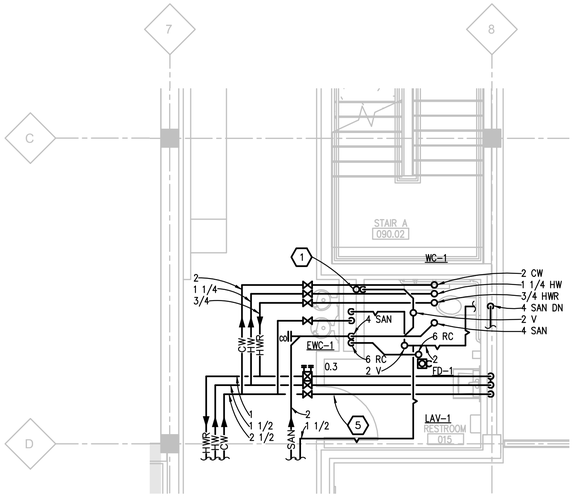
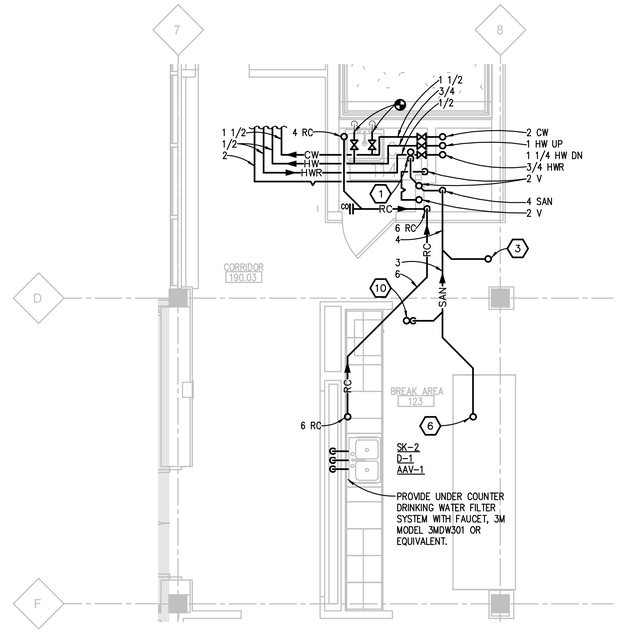


LOWER LEVEL ENLARGED PLUMBING PLAN

1 / M2.0

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



FIRST LEVEL ENLARGED PLUMBING PLAN

2 / M2.1

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

PLUMBING GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
5. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
6. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LOCATIONS OF PLUMBING FIXTURES.
7. HOT AND COLD WATER PIPING RUN-OUTS TO LAVATORIES AND SINKS SHALL BE 1/2" UNLESS OTHERWISE NOTED.
8. PLUMBING VENT PIPING THROUGH ROOF SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY FRESH AIR INTAKE LOCATION AND A MINIMUM OF 18" CLEAR FROM THE INSIDE FACE OF PARAPET.
9. PROVIDE CODE REQUIRED CLEARANCE FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING.
10. MINIMUM UNDERGROUND PIPE SIZE SHALL BE 3".

CONSTRUCTION KEY NOTES:

1. 3 SAN TO SERVICE SINK.
2. 3 SAN TO ELECTRIC WATER COOLER.
3. 4 SAN TO CHASE.
4. 3/4 CW, 3/4 HW & 2 SAN TO SINK ABOVE.
5. 1 1/2 CW, 1/2 HW & 1/2 HWR TO TOILET ROOM.
6. 1 1/2 SAN TO ELECTRIC WATER COOLER.
7. PROVIDE COMPLETE AUTOMATIC WET PIPE SPRINKLER SYSTEM PER NFPA 13 AND OWNERS INSURING AGENCY IN AREA INDICATED.
8. CONNECT NEW VACUUM BREAKER ASSEMBLY TO EXISTING SPRINKLER SYSTEM.
9. PROVIDE ISOLATION VALVES IN CW & HW PIPING SERVING EXISTING SERVICE SINK.
10. 3 SAN TO FLOOR DRAIN.

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FOR BIDS	20 JUN 2019
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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
PLUMBING ENLARGED PLANS

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M5.1

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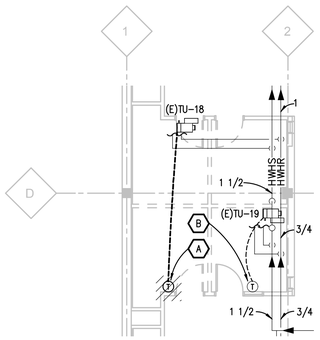
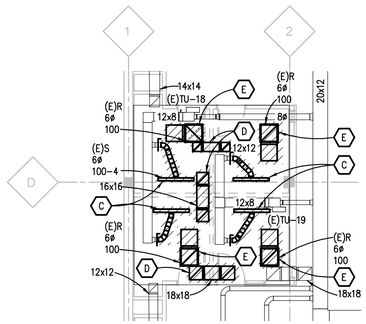


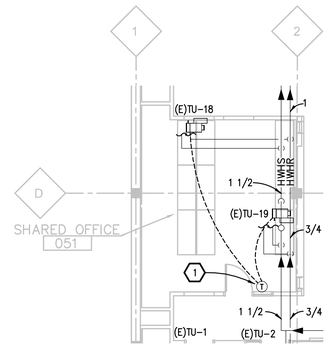
LOWER LEVEL HVAC PIPING DEMOLITION PLAN-ALTERNATE 2

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



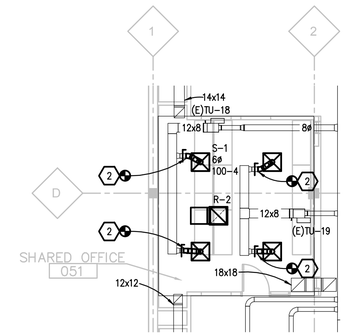
LOWER LEVEL SHEET METAL DEMOLITION PLAN-ALTERNATE 2

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



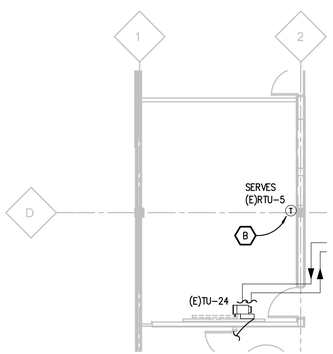
LOWER LEVEL HVAC PIPING NEW WORK PLAN-ALTERNATE 2

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



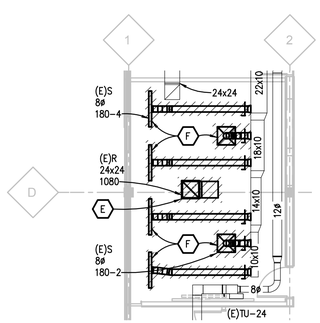
LOWER LEVEL SHEET METAL NEW WORK PLAN-ALTERNATE 2

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



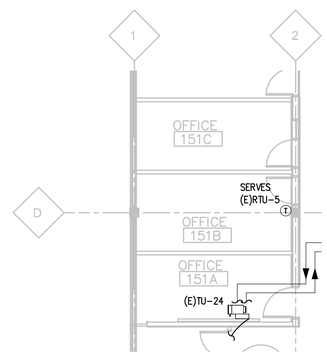
FIRST LEVEL HVAC PIPING DEMOLITION PLAN-ALTERNATE 2

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



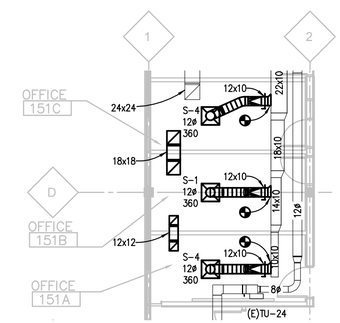
FIRST LEVEL SHEET METAL DEMOLITION PLAN-ALTERNATE 2

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



FIRST LEVEL HVAC PIPING NEW WORK PLAN-ALTERNATE 2

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



FIRST LEVEL SHEET METAL NEW WORK PLAN-ALTERNATE 2

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

MECHANICAL GENERAL DEMOLITION NOTES:

1. ANY INTERRUPTION OF EXISTING SERVICES AND/OR EQUIPMENT SHALL BE PERFORMED AT A TIME APPROVED IN ADVANCE BY THE OWNER'S REPRESENTATIVE.
2. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. ACTUAL ROUTING AND SIZES OF EXISTING PIPING AND DUCTWORK MIGHT DIFFER TO A LIMITED EXTENT FROM WHAT IS SHOWN. MAJOR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL EXISTING CONDITIONS SHALL BE REPORTED TO THE ENGINEER.
3. THE EXACT EXTENT OF DEMOLITION SHALL BE AS REQUIRED BY THE NEW WORK.
4. ALL MECHANICAL ITEMS TO BE REMOVED SHALL BE REMOVED COMPLETE, INCLUDING ALL RELATED ITEMS SUCH AS HANGERS, SUPPORTS, CONTROLS, ETC. CAP ALL OPEN ENDED PIPES AND DUCTWORK.
5. OWNER TO RECOVER ALL REFRIGERANT. COORDINATE DEMOLITION WITH OWNER.
6. REFERENCE THE HAZARDOUS MATERIAL REPORTS FOR MATERIALS TO BE REMOVED BY OWNER.

DEMOLITION KEY NOTES:

A. REMOVE THERMOSTAT AS INDICATED.
B. EXISTING THERMOSTAT TO REMAIN.
C. REMOVE DIFFUSER AND ASSOCIATED FLEX DUCT COMPLETE AS INDICATED. PREPARE DUCT FOR EXTENSION TO NEW DIFFUSER.
D. REMOVE TRANSFER AIR DUCT COMPLETE AS INDICATED.
E. REMOVE RETURN AIR GRILLE AND ASSOCIATED DUCTWORK COMPLETE AS INDICATED.
F. REMOVE DIFFUSER AND ASSOCIATED DUCTWORK BACK TO MAIN AS INDICATED. SEAL MAIN AIRTIGHT.

HVAC PIPING GENERAL NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC, AND REPRESENT THE GENERAL INTENT AND ARRANGEMENT OF SYSTEMS. THEY ARE NOT TO BE CONSIDERED FABRICATION/COORDINATION/SHOP DRAWINGS. COORDINATION WITH OTHER TRADES IS REQUIRED. PROVIDE THE ADDITIONAL FITTINGS AND OFFSETS THAT WILL BE REQUIRED TO COMPLETE EACH SYSTEM AND TO AVOID INTERFERENCES WITH ALL OTHER SYSTEMS INCLUDING THE STRUCTURE, SHEET METAL, OTHER PIPING SYSTEMS, ELECTRICAL CONDUITS, BUS DUCTS, CABLE TRAY, LIGHT FIXTURES, ETC. AND/OR OTHER SPACE CONSTRAINTS.
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3. PIPING SHALL NOT BE INSTALLED ABOVE ELECTRICAL TRANSFORMERS, SWITCHBOARDS, PANELBOARDS OR MOTOR CONTROL CENTERS.
4. PIPING PENETRATIONS TO AVOID CUTTING INTO CONCRETE WEB. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF CONCRETE WEBS.
5. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
6. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
7. COORDINATE LOCATION OF DUCT-MOUNTED HYDRONIC DEVICES WITH SHEET METAL TRADES.
8. BRANCH PIPING SERVING TERMINAL UNIT HEATING COILS SHALL BE 3/4" UNLESS OTHERWISE NOTED. BRANCH PIPING SERVING MORE THAN ONE TERMINAL UNIT HEATING COIL SHALL BE 1" UNLESS OTHERWISE NOTED.
9. MOUNT THERMOSTATS 48" A.F.F., UNLESS OTHERWISE NOTED. LOCATE AS CLOSE AS POSSIBLE TO DOOR WHEN INDICATED NEAR DOOR. COORDINATE EXACT LOCATION WITH ALL OTHER TRADES.

SHEET METAL GENERAL NOTES:

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7. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DIMENSIONED LOCATION OF GRILLES, REGISTERS, AND DIFFUSERS.

CONSTRUCTION KEY NOTES:

1. TIE EXISTING THERMOSTAT TO (E)TU-18.
2. EXTEND DUCTWORK TO NEW DIFFUSER.

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FOR BIDS	20 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
MECHANICAL DEMOLITION AND NEW WORK PLANS-ALTERNATE 2

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M5.2

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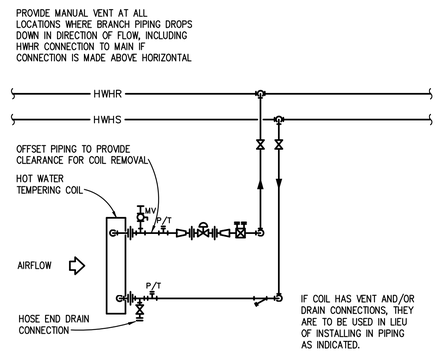
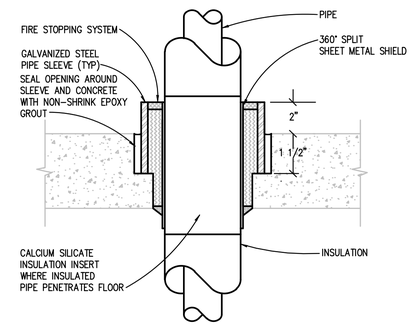


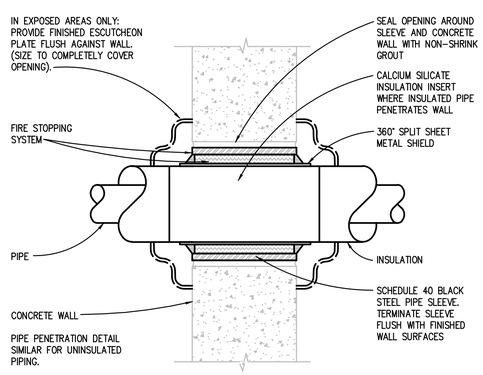
HOT WATER TEMPERING COIL WITH TWO-WAY CONTROL VALVE PIPING DIAGRAM

NO SCALE



EXISTING FLOOR PIPE PENETRATION DETAIL

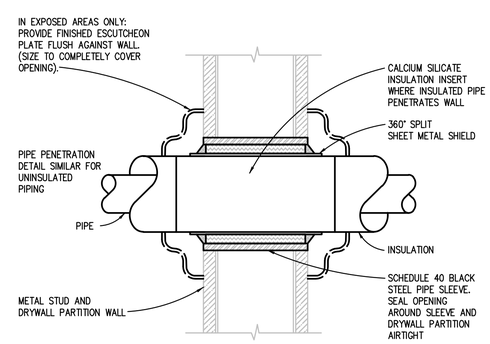
NO SCALE



DETAIL INDICATES THE INSTALLATION REQUIREMENTS FOR A FIRE RATED ASSEMBLY. FOR A NON-FIRE RATED ASSEMBLY PACK SLEEVED OPENING WITH INSULATION MATERIAL AND CAULK WITH NON-HARDENING SEALANT.

FIRE RATED AND NON-FIRE RATED POURED CONCRETE OR BLOCK WALL PIPE PENETRATION DETAIL

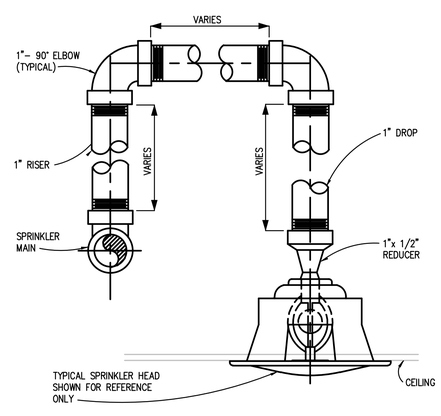
NO SCALE



DETAIL INDICATES THE INSTALLATION REQUIREMENTS FOR A FIRE RATED ASSEMBLY. FOR A NON-FIRE RATED ASSEMBLY PACK SLEEVED OPENING WITH INSULATION MATERIAL AND CAULK WITH NON-HARDENING SEALANT.

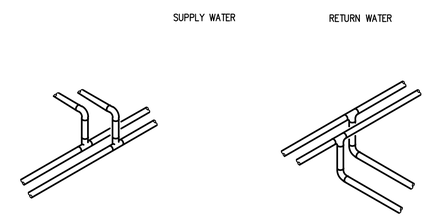
FIRE RATED AND NON-FIRE RATED METAL STUD AND DRYWALL PARTITION WALL PIPE PENETRATION DETAIL

NO SCALE



TYPICAL SPRINKLER PIPING DETAIL

NO SCALE



BRANCH CONNECTION OFF TOP

APPLIES TO THE FOLLOWING SYSTEMS:
DOMESTIC WATER
STEAM & CONDENSATE
LABORATORY GASES
LABORATORY VACUUM
COMPRESSED AIR
NATURAL GAS

BRANCH CONNECTION OFF BOTTOM

APPLIES TO THE FOLLOWING SYSTEMS:
HOT WATER HEATING
CHILLED WATER
CONDENSER WATER
ENERGY RECOVERY
PROCESS COOLING WATER

NOTE: BOTTOM AS INDICATED OR SIDE CONNECTION IS ACCEPTABLE. CONNECTION ABOVE CENTERLINE OF MAINS IS NOT ACCEPTABLE.

TYPICAL BRANCH TAKE-OFF CONNECTION PIPING DETAIL

NO SCALE

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
MECHANICAL DETAILS

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M6.1

g:\2019\2019-0032-00\CAD\2019-0032-M6-DT.dwg, M6.1, 6/19/2019 2:47:37 PM, Nadeen F. Hamid, DWF6 ePlot.pc3 ,1.76067, Peter Basso Associates Inc.
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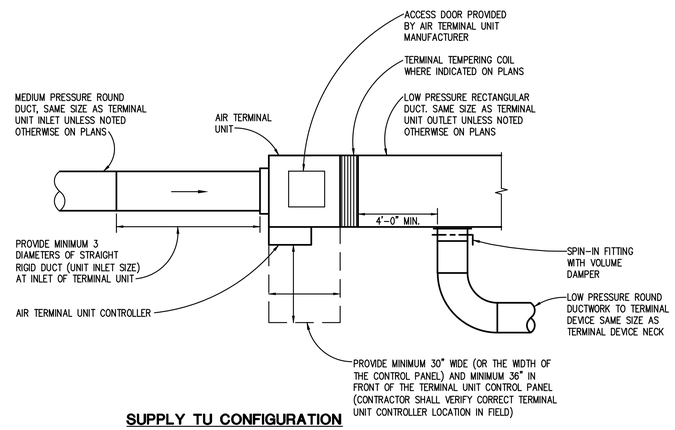
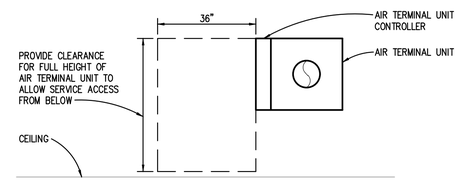


SUPPLY TU CONFIGURATION



TERMINAL UNIT SECTION

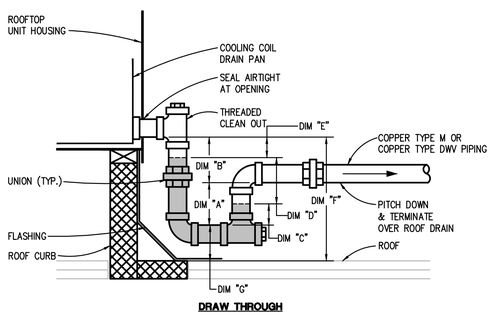
AIR TERMINAL UNIT (TU) DETAIL

NO SCALE

TRAP DIMENSION TABLE

TYPE OF SYSTEM	S.P. AT COIL DRAIN PAN (IN.) (NOTE A)	DIMENSION "A" (INCHES) MIN.	DIMENSION "B" (INCHES)	DIMENSION "C" (INCHES) (TRAP SEAL)	DIMENSION "D" (INCHES)	DIMENSION "E" (INCHES)	DIMENSION "F" (INCHES) DRAIN PIPE SIZE (INCHES)			
							1 1/2	2	2 1/2, 3	4
DRAW THROUGH	-5.1 TO -6	5.0	5.0	2	6	2	13.0	14.0	15.0	16.0
	-4.1 TO -5	4.5	4.5	2	5	2	12.0	13.0	14.0	15.0
	-3.1 TO -4	4.0	4.0	2	4	2	11.0	12.0	13.0	14.0
	-2.1 TO -3	3.5	3.5	2	3	2	10.0	11.0	12.0	13.0
	UP TO -2	3.0	3.0	2	2	2	9.0	10.0	11.0	12.0

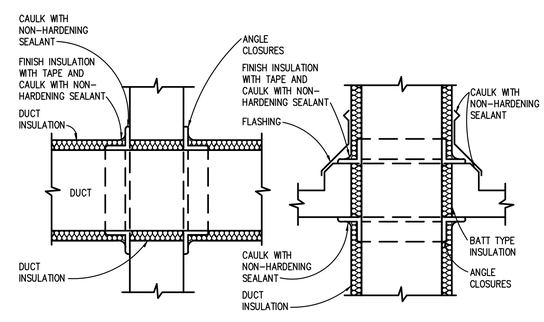
NOTES:
A. REFER TO ROOFTOP AIR HANDLING UNIT (COMMERCIAL, UNITARY, MODULAR) SCHEDULE FOR (-) OR (+) STATIC PRESSURE AT COIL DRAIN PAN.
B. ENERGY RECOVERY UNIT HEAT EXCHANGER CONDENSATE PAN TRAP PIPING OUTSIDE CASING SHALL BE INSULATED AND HEAT TRACED.
C. DIMENSION "G" IS MIN: 3" FOR UP TO 1 1/2" DRAIN PIPE
4" FOR 2" DRAIN PIPE
5" FOR 2 1/2" OR 3" DRAIN PIPE
6" FOR 4" DRAIN PIPE
D. PROVIDE ROOF CURB WITH ADEQUATE HEIGHT TO MEET DIMENSION "F"



DRAW THROUGH

ROOFTOP AIR HANDLING UNIT CONDENSATE DRAIN PAN TRAP DETAIL

NO SCALE



VERTICAL OR HORIZONTAL (NON FIRE RATED ASSEMBLY) DUCT PENETRATION DETAIL

NO SCALE

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Project Number: 2013088.22 WSU Project No: 063-301464

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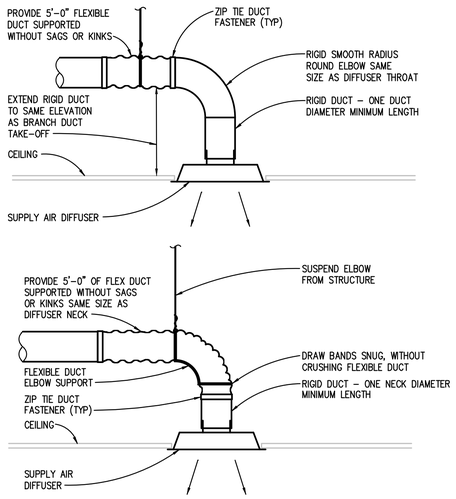
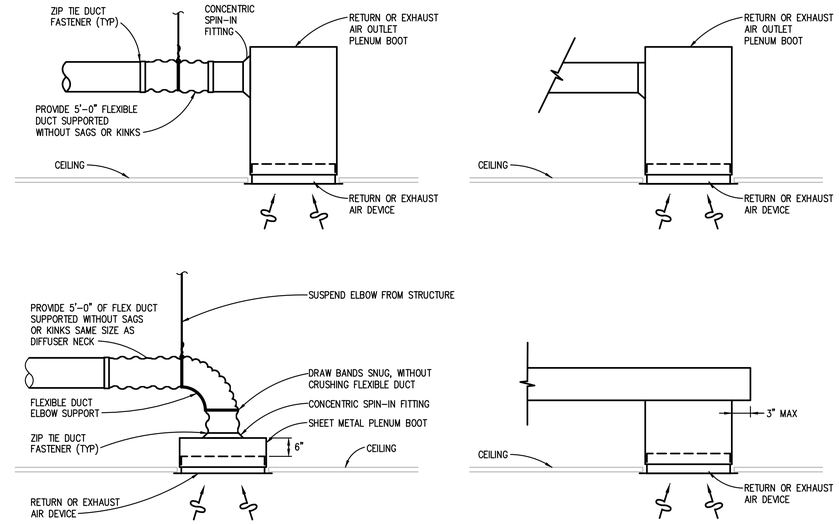


ROUND NECK SUPPLY AIR DIFFUSER DETAIL

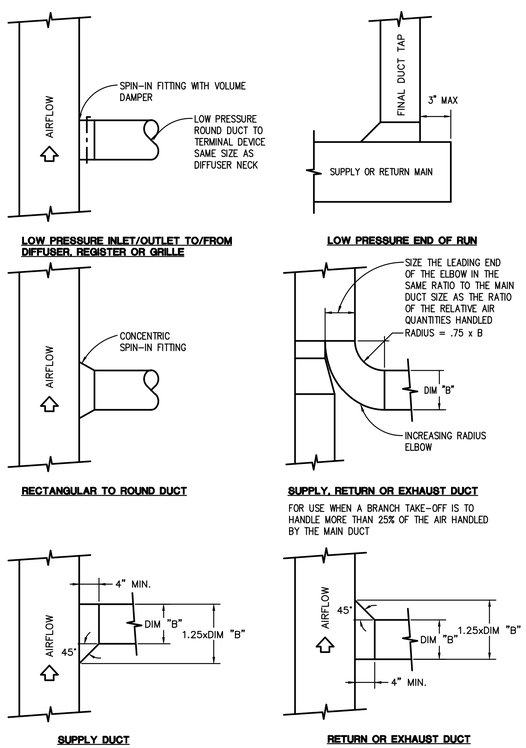
NO SCALE



RETURN OR EXHAUST AIR DEVICE INSTALLATION DETAIL

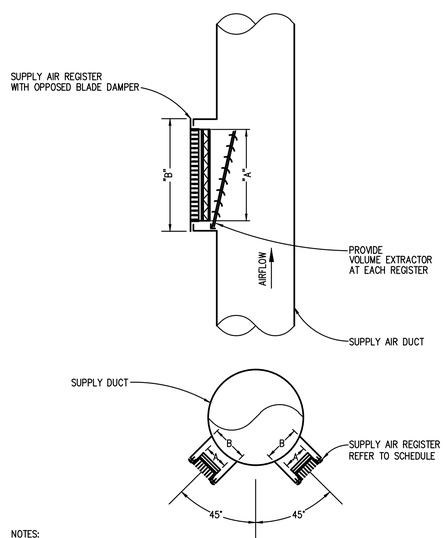
NO SCALE (PAINT INTERIOR SURFACES OF PLENUM BOX FLAT BLACK)

NOTE: PAINT INTERIOR SURFACE OF PLENUM BOX FLAT BLACK.



RECTANGULAR DUCT BRANCH TAKE-OFF DETAILS

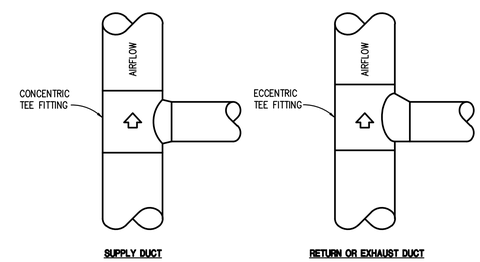
NO SCALE



NOTES:
1. A = GRILLE/REGISTER THROAT SIZE
2. B = OVERALL FRAME SIZE

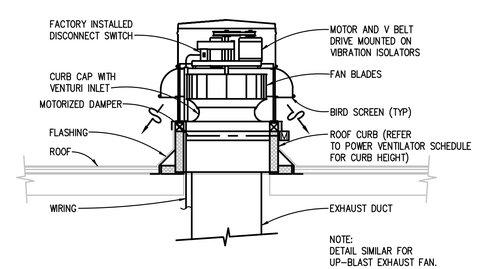
DUCT MOUNTED SUPPLY AIR REGISTER DETAIL

NO SCALE



SPIRAL DUCT BRANCH TAKE-OFF DETAILS

NO SCALE (ROUND AND FLAT OVAL SIMILAR)



ROOF MOUNTED POWER VENTILATOR EXHAUST FAN DETAIL

NO SCALE

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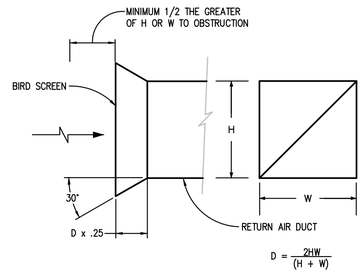
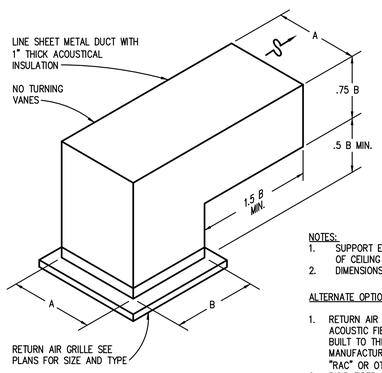


BELLMOUTH DETAIL

NO SCALE

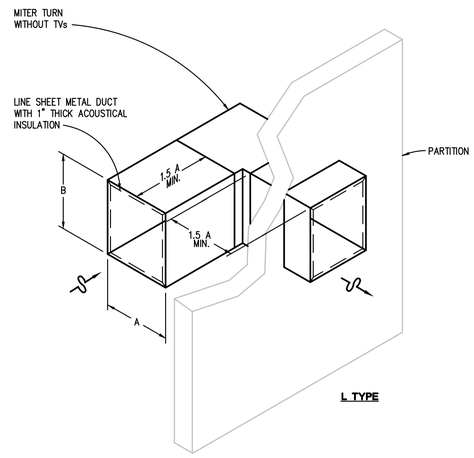


NOTES:
1. SUPPORT ELBOW INDEPENDENT OF CEILING GRID
2. DIMENSIONS ARE INSIDE CLEAR

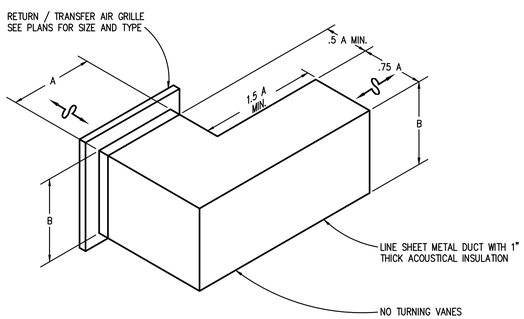
ALTERNATE OPTIONS

1. RETURN AIR CANOPY. GALVANIZED STEEL WITH ACOUSTIC FIBERGLASS LINER. UNIT SHALL BE BUILT TO THE RETURN GRILLE SIZE. AS MANUFACTURED BY PRICE INDUSTRIES–MODEL "RAC" OR OTHER APPROVED.
2. RIGID FIBER BOARD IN LIEU OF LINED SHEET METAL DUCT.

CEILING GRILLE TO PLENUM



L TYPE



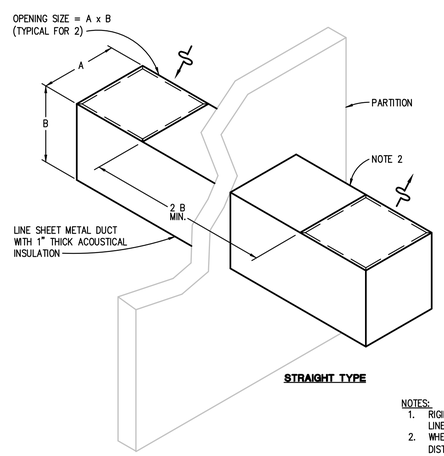
NOTE: DIMENSIONS ARE INSIDE CLEAR.

ALTERNATE OPTION: RIGID FIBER BOARD IN LIEU OF LINED SHEET METAL DUCT.

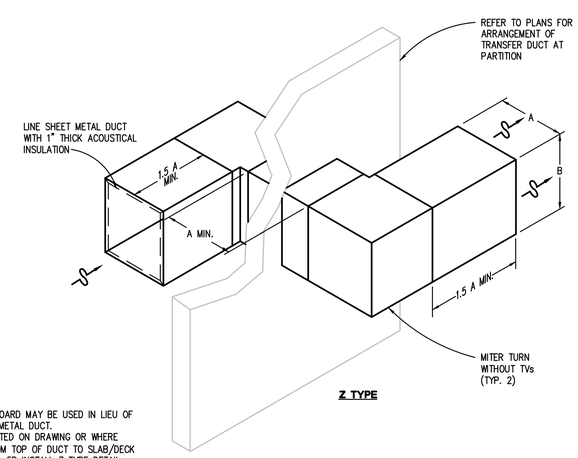
PLENUM TO / FROM WALL GRILLE

PLENUM RETURN AIR GRILLE DETAILS

NO SCALE



STRAIGHT TYPE



Z TYPE

NOTES:
1. RIGID FIBER BOARD MAY BE USED IN LIEU OF LINED SHEET METAL DUCT.
2. WHERE INDICATED ON DRAWING OR WHERE DISTANCE FROM TOP OF DUCT TO SLAB/DECK IS LESS THAN .5B INSTALL Z TYPE DETAIL.
3. SIZE DUCTS FOR 400 FPM MAX BASED ON CLEAR INSIDE DIMENSIONS AND 100% OF THE SUPPLY AIR TO THE SPACE.
4. ROTATE DETAILS 90° WHERE VERTICAL INSTALLATION IS INDICATED.
5. DIMENSIONS ARE INSIDE CLEAR.

AIR TRANSFER DUCT DETAILS

NO SCALE

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DUCT SYSTEM APPLICATION SCHEDULE

AIR SYSTEMS	G90 GALV. SHEET METAL	DOUBLE-WALL LINED G90 GALV. SHEET METAL (SOLID INNER WALL)	DOUBLE-WALL LINED G90 GALV. SHEET METAL (PERF. INNER WALL)	G90 GALV. SHEET METAL WITH 1-INCH LINING	GALVANNEALED SHEET METAL	ALUMINUM	TYPE 304 STAINLESS STEEL	TYPE 316 STAINLESS STEEL	PVC COATED GALV. SHEET METAL (4X1)	PVC COATED GALV. SHEET METAL (1X4)	PVC COATED GALV. SHEET METAL (4X4)	16 GA. CARBON STEEL	ZERO-CLEARANCE PREFABRICATED RANGE HOOD EXHAUST DUCT	FABRIC	DESIGN PRESSURE CLASS (INCHES WG)	SEAL CLASS	MAX. ALLOWABLE LEAKAGE RATE (PERCENT)	KEYED NOTES
	DUCT MATERIAL																	
SUPPLY AIR WITHOUT TERMINAL UNITS	X														+2	A	5	
SUPPLY AIR UPSTREAM OF TERMINAL UNITS	X														+6	A	5	
SUPPLY AIR DOWNSTREAM OF TERMINAL UNITS	X														+2	A	5	
RETURN AIR WITHOUT TERMINAL UNITS	X														−2	A	5	
EXHAUST AIR WITHOUT TERMINAL UNITS	X														−2	A	5	
AIR TRANSFER DUCT				X											+2	A	5	

GENERAL NOTES

1. "X" INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
2. 4 X 1 PVC-COATED GALVANIZED STEEL: FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON EXTERIOR SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND MINIMUM 1 MIL (0.025 MM) THICK ON INTERIOR SURFACES.
3. 1 X 4 (4 X 1 REVERSE COATED) PVC-COATED GALVANIZED STEEL: FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON INTERIOR SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND MINIMUM 1 MIL (0.025 MM) THICK ON EXTERIOR SURFACES.
4. 4 X 4 PVC-COATED GALVANIZED STEEL: FACTORY-APPLIED PVC COATINGS SHALL BE 4 MILS (0.10 MM) THICK ON SHEET METAL SURFACES OF DUCTS AND FITTINGS EXPOSED TO CORROSIVE CONDITIONS AND 4 MILS (0.10 MM) THICK ON OPPOSITE SURFACES.

ABOVEGROUND HVAC PIPING & VALVE APPLICATION SCHEDULE

PIPE SIZE (INCHES)	SOFT COPPER TYPE K	HARD COPPER TYPE L	HARD COPPER TYPE M	CARBON STEEL (SCHED. 40)	CARBON STEEL (SCHED. 80)	CARBON STEEL (STD.)	COPPER TYPE DWV	SOLDERED	BRAZED	WELDED	THREADED	FLANGED	GROOVED	PRESSURE SEAL	MECHANICALLY FORMED TEE	BALL	GENERAL SERVICE BUTTERFLY	HI-PERF BUTTERFLY	GATE	KEYED NOTES
	MATERIAL							CONNECTION								ISOLATION VALVES				
HEATING HOT WATER SUPPLY & RETURN - MIN. WORKING PRESS. & TEMP. 125 PSIG AT 200 DEG F																				
UP TO 2		X						X	X							X				

GENERAL NOTES

1. 'X' INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A PIPING SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
2. DISSIMILAR-METAL PIPING JOINTS: CONSTRUCT JOINTS USING DIELECTRIC FITTINGS COMPATIBLE WITH BOTH PIPING MATERIALS. IF A BRONZE VALVE CONNECTS THE DISSIMILAR METALS NO FURTHER DIELECTRIC ISOLATION IS REQUIRED.

   a. NPS 2 AND SMALLER: USE BRASS COUPLING, NIPPLE, OR UNION.
   b. NPS 2-1/2 AND LARGER: USE DIELECTRIC FLANGE KITS.

3. USE UNIONS OR FLANGES AT VALVE AND EQUIPMENT CONNECTIONS.
4. HVAC EQUIPMENT DRAINS, VENTS, SAFETY VALVE PIPING, BLOWDOWN PIPING AND THE LIKE SHALL BE SAME PIPING MATERIAL AS ASSOCIATED PIPING SYSTEM.

SCHEDULES GENERAL NOTES:

TYPICAL FOR ALL SCHEDULE SHEETS:

1. REFER TO ELECTRICAL STANDARD SCHEDULES, ONE LINE DIAGRAM AND PANEL SCHEDULES FOR ADDITIONAL ELECTRICAL INFORMATION
2. PROVIDE THE FOLLOWING FACTORY-WIRED ELECTRICAL OPTIONS/ACCESSORIES WHERE INDICATED IN SCHEDULE:

   A – NON-FUSED DISCONNECT SWITCH
   B – UNIT SHALL BE SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS
   C – SERVICE RECEPTACLE
   D – FUSED DISCONNECT SWITCH
   E – COMBINATION STARTER
   F – UNIT SHALL HAVE (2) SINGLE POINT CONNECTIONS WITH FACTORY INSTALLED DISCONNECTING MEANS AND ALL REQUIRED STARTERS AND CONTROLS. (1) CONNECTION SHALL BE FOR CONDENSING SECTION AND (1) CONNECTION SHALL BE FOR THE REMAINDER OF THE UNIT.

3. FOR MODULATION/CONTROL TYPE COLUMN, "VFC" INDICATES VARIABLE FREQUENCY CONTROLLERS, "AUTO" INDICATES AUTOMATIC OPERATION (CONTROLLED BY TEMPERATURE CONTROLS OR SELF CONTAINED CONTROLS), "MANUAL" INDICATES HAND OPERATION.
4. IF VARIABLE FREQUENCY CONTROLLERS ARE INDICATED TO BE PROVIDED AND ARE NOT INSTALLED INTEGRAL TO THE UNIT, VARIABLE FREQUENCY CONTROLLERS SHALL BE SUPPLIED BY THE MECHANICAL CONTRACTOR (UNLESS OTHERWISE NOTED) AND INSTALLED BY THE ELECTRICAL CONTRACTOR INCLUDING THE LINE SIDE AND LOAD SIDE WIRING TO THE MOTOR AND INCLUDING MISCELLANEOUS STEEL REQUIRED FOR THE SUPPORT AND MOUNTING OF THE VFC. REFER TO FLOOR PLANS FOR LOCATION.
5. WHERE EQUIPMENT IS INDICATED TO HAVE A SINGLE POINT ELECTRICAL CONNECTION, THAT EQUIPMENT SHALL COME COMPLETE WITH FACTORY INSTALLED STARTERS, MOTOR OVERLOAD PROTECTION, CONTACTORS, FUSING AND ALL NECESSARY INTERNAL WIRING AND CONTROLS. PROVIDE A FACTORY MOUNTED UNIT DISCONNECTING MEANS WHERE THE ELECTRICAL CONTRACTOR SHALL MAKE SINGLE POINT CONNECTION. INSTALL PACKAGED EQUIPMENT SUCH THAT THE ELECTRICAL CONNECTION AND CONTROLS ARE ACCESSIBLE AND HAVE CLEARANCES MEETING THE NATIONAL ELECTRICAL CODE.
6. WHERE PACKAGED EQUIPMENT IS PROVIDED, NAMEPLATE MUST INDICATE MAXIMUM OVERCURRENT PROTECTION BY HACR RATED CIRCUIT BREAKERS OR FUSES. IF FUSE PROTECTION ONLY IS INDICATED, PROVIDE A FUSIBLE DISCONNECT AND FUSES WITH THE UNIT.
7. WHERE EQUIPMENT IS DESIGNATED BY MANUFACTURER AND MODEL NUMBER, THIS IS THE BASIS OF DESIGN. IF THE CONTRACTOR ELECTS TO PROVIDE EQUIPMENT BY OTHER SPECIFIED MANUFACTURERS OR PROPOSED ALTERNATE EQUIPMENT BY THE BASIS OF DESIGN MANUFACTURER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REVISIONS TO ELECTRICAL REQUIREMENTS, STRUCTURAL LOADING, OR ARCHITECTURAL APPURTENANCES AND SHALL INCLUDE THE COST OF SUCH REVISIONS IN HIS BID.
8. WHERE EQUIPMENT IS SCHEDULED TO INCLUDE A SERVICE RECEPTACLE, PROVIDE A FACTORY MOUNTED SERVICE RECEPTACLE WITH APPROPRIATE FUSES AND TRANSFORMERS CONNECTED ON THE LINE SIDE OF THE UNIT DISCONNECT. PROVIDE A NAMEPLATE ON THE DISCONNECT SWITCH INDICATING THE PRESENCE OF LIVE POWER TO THE SERVICE RECEPTACLE WHEN THE UNIT DISCONNECT IS IN THE OFF POSITION.
9. SIZE ALL EQUIPMENT FEEDERS BASED ON THE LISTED MOP (MAXIMUM OVERCURRENT PROTECTION). REFER TO THE FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE ON THE ELECTRICAL STANDARD SCHEDULES SHEET.

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DUCT SYSTEM INSULATION APPLICATION SCHEDULE

	FIBERGLASS BLANKET 0.75 LB/CU FT	FIBERGLASS BLANKET 1.0 LB/CU FT	FIBERGLASS BOARD 2.25 LB/CU FT	FIBERGLASS BOARD 6.0 LB/CU FT	FLEXIBLE ELASTOMERIC	ASTM E2336 2-HOUR FIRE RATED BLANKET	2-HOUR FIRE RATED BLANKET	ALUMINUM	SELF-ADHESIVE (FOR OUTDOOR APPLICATIONS)	KEYED NOTES
	INSULATION MATERIAL & THICKNESS (INCHES)							FIELD APPLIED JACKET MATERIAL		
DUCT SYSTEMS LOCATED INDOORS										
SUPPLY AIR, EXCEPT AS NOTED BELOW		1.5								A, B
EXHAUST AND RELIEF AIR BETWEEN ISOLATION DAMPER AND PENETRATION OF BUILDING EXTERIOR, EXCEPT AS NOTED BELOW		1.5								

PLENUMS, DUCTS, AND DUCT ACCESSORIES NOT REQUIRING INSULATION:
- FIBROUS-GLASS DUCTS
- DOUBLE-WALL METAL DUCTS WITH INSULATION OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1 – 2013
- METAL DUCTS WITH DUCT LINER OF SUFFICIENT THICKNESS TO COMPLY WITH ENERGY CODE AND ASHRAE/IESNA 90.1 – 2013
- FABRIC SUPPLY DUCTS
- FACTORY-INSULATED FLEXIBLE DUCTS
- FACTORY-INSULATED PLENUMS AND CASINGS
- FLEXIBLE CONNECTORS
- VIBRATION-CONTROL DEVICES
- FACTORY-INSULATED ACCESS PANELS AND DOORS

GENERAL NOTES

1. "X" OR THICKNESS IN INCHES INDICATE ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A DUCT SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
2. REFER TO METAL DUCT SECTION OF SPECIFICATIONS FOR DUCT LINING AND DOUBLE-WALL INSULATED DUCT.
3. REFER TO HVAC CASINGS SECTION OF SPECIFICATIONS FOR DOUBLE-WALL INSULATED PLENUMS.

KEYED NOTES

A. INCLUDE INSULATION AROUND DUCT MOUNTED COILS AND AIR TERMINAL UNIT COILS.
B. EXPOSED SUPPLY DUCTWORK LOCATED IN CONDITIONED SPACE SERVED BY THAT SYSTEM IS NOT REQUIRED TO BE INSULATED.

ABOVEGROUND HVAC PIPE & ACCESSORY INSULATION APPLICATION SCHEDULE

	FLEXIBLE ELASTOMERIC	FIBERGLASS	MINERAL WOOL	POLYISOCYANURATE	PHENOLIC	CELLULAR GLASS	CALCIUM SILICATE	ALUMINUM	STAINLESS STEEL	PVC	SELF-ADHESIVE (FOR OUTDOOR APPLICATIONS)	PVDC (INDOOR)	PVDC (OUTDOOR)	KEYED NOTES
	INSULATION MATERIAL & THICKNESS (INCHES)							FIELD-APPLIED JACKET MATERIAL						
INDOOR PIPE SYSTEM AND SIZE (INCHES)														
HEATING HOT WATER SUPPLY & RETURN 200 DEG F AND LOWER														
NPS 1-1/4 AND SMALLER		1.5												

UNLESS OTHERWISE INDICATED OR SCHEDULED, THE FOLLOWING DO NOT REQUIRE INSULATION:
- DIRECT BURIED COOLING SYSTEM PIPING
- PIPING THAT CONVEYS FLUIDS HAVING DESIGN OPERATING TEMPERATURE RANGE BETWEEN 60 DEG F. AND 105 DEG F., INCLUSIVE.

GENERAL NOTES

1. "X" OR THICKNESS IN INCHES INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
2. INSULATE PIPING WITHIN AIR HANDLING EQUIPMENT THE SAME AS INDOOR PIPING. PROVIDE ALUMINUM OR STAINLESS STEEL JACKET.
3. FOR PIPING NPS 1-1/4 AND SMALLER WITHIN PARTITIONS IN CONDITIONED SPACES INSULATION MAY BE REDUCED BY ONE-INCH THICKNESS, BUT NOT TO LESS THAN ONE-INCH THICKNESS.
4. FOR PIPING NPS 1 AND SMALLER, INSULATION IS NOT REQUIRED FOR STRAINERS, CONTROL VALVES, AND BALANCING VALVES.

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
MECHANICAL SCHEDULES

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

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ABOVEGROUND PLUMBING PIPE & ACCESSORY INSULATION APPLICATION SCHEDULE

	INSULATION MATERIAL & THICKNESS (INCHES)							FIELD-APPLIED JACKET MATERIAL						
	FLEXIBLE ELASTOMERIC	FIBERGLASS	MINERAL WOOL	POLYISOCYANURATE	PHENOLIC	CELLULAR GLASS	CALCIUM SILICATE	ALUMINUM	STAINLESS STEEL	PVC	SELF-ADHESIVE (FOR OUTDOOR APPLICATIONS)	PVDC (INDOOR)	PVDC (OUTDOOR)	KEYED NOTES
INDOOR PIPE SYSTEM AND SIZE (INCHES)														
DOMESTIC COLD WATER	1	1												
DOMESTIC HOT WATER SUPPLY & RETURN	1	1												
STORM WATER & OVERFLOW	1	1												
CONDENSATE AND EQUIPMENT DRAIN PIPING BELOW 60 DEG F	0.75	1												
FLOOR DRAINS, TRAPS AND SANITARY DRAIN PIPING WITHIN 10 FEET OF DRAIN RECEIVING CONDENSATE AND EQUIPMENT DRAIN WATER BELOW 60 DEG F	0.75	1												

UNLESS OTHERWISE INDICATED OR SCHEDULED, DO NOT INSULATE THE FOLLOWING:
- FIRE SUPPRESSION PIPING
- UNDERGROUND PIPING
- FUEL GAS PIPING

GENERAL NOTES

1. 'X' OR THICKNESS IN INCHES INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
2. INSULATE PIPING WITHIN AIR HANDLING EQUIPMENT THE SAME AS INDOOR PIPING. PROVIDE ALUMINUM OR STAINLESS STEEL JACKET.

PLUMBING PIPING & VALVE APPLICATION SCHEDULE

	MATERIAL																PRESSURE CONNECTIONS												GRAVITY DWV CONNECTIONS						ISOLATION VALVES					
PIPE SIZE (INCHES)	SOFT COPPER TYPE K	HARD COPPER TYPE L	HARD COPPER TYPE M	CARBON STEEL (SCHED. 40)	CARBON STEEL (STD.)	GALV. STEEL (SCHED. 40)	PEX	PE PIPE	PE SHEATHED CARBON STEEL PIPE	CSST	SERVICE CLASS CAST IRON	NO-HUB CISP	PVC TYPE DWV	PP DRAINAGE PIPE	COPPER TYPE DWV	DUCTILE IRON PIPE	SOLDERED	BRAZED	WELDED	THREADED	FLANGED	GROOVED	INSERT & CRIMP	FUSION	PRESSURE-SEAL	MECHANICALLY-FORMED TEE	MECHANICAL JOINT	PUSH-ON-JOINT	SOLVENT WELDED	SOLDERED	FUSION	HUB AND SPIGOT	CISPI HUBLESS	HEAVY-DUTY HUBLESS	BALL	AGA BALL	GENERAL SERVICE BUTTERFLY	LUBRICATED PLUG	GATE	KEYED NOTES
ABOVEGROUND DOMESTIC WATER (POTABLE AND NON-POTABLE) ON DISTRIBUTION SIDE OF METER - MIN. WORKING PRESS. & TEMP.: 125 PSIG AT 200 DEG F																																								
UP TO 4		X															X	X			X														X		X			
ABOVEGROUND SANITARY WASTE & VENT - MIN. WORKING PRESS.: 10-FOOT HEAD OF WATER																																								
1-1/2 TO 15												X																					X							
ABOVEGROUND INDIRECT SANITARY WASTE - MIN. WORKING PRESS.: 10-FOOT HEAD OF WATER																																								
UP TO 8			X												X															X										
UNDERGROUND SANITARY WASTE & VENT - MIN. WORKING PRESS.: 10-FOOT HEAD OF WATER																																								
3 TO 12											X		X																			X								
ABOVEGROUND COLD CONDENSATE DRAIN - MIN. WORKING PRESSURE: 10 FT. HEAD OF WATER																																								
ALL SIZES			X												X		X	X																						
ABOVEGROUND STORM DRAINAGE - MIN. WORKING PRESS.: 10-FOOT HEAD OF WATER																																								
3 TO 15												X																					X							
UNDERGROUND STORM DRAINAGE - MIN. WORKING PRESS.: 10-FOOT HEAD OF WATER																																								
3 TO 12											X		X																			X								
ABOVEGROUND FUEL GAS - MIN. WORKING PRESS.: 100 PSIG																																								
UP TO 2				X															X	X																X				A
2-1/2 TO 3				X															X		X															X				A

GENERAL NOTES

1. 'X' INDICATES ACCEPTABLE SELECTION. IF MORE THAN ONE SELECTION IS INDICATED FOR A PIPING SYSTEM, CONTRACTOR MAY SELECT FROM THOSE INDICATED SELECTIONS.
2. DISSIMILAR-METAL PIPING JOINTS: CONSTRUCT JOINTS USING DIELECTRIC FITTINGS COMPATIBLE WITH BOTH PIPING MATERIALS.

   a. NPS 2 AND SMALLER: USE DIELECTRIC NIPPLE/WATERWAY.
   b. NPS 2-1/2 AND LARGER: USE DIELECTRIC FLANGE KITS.

3. USE UNIONS OR FLANGES AT VALVE AND EQUIPMENT CONNECTIONS.
4. PLUMBING EQUIPMENT DRAINS, VENTS, SAFETY VALVE PIPING, BLOWDOWN PIPING AND THE LIKE SHALL BE SAME PIPING MATERIAL AS ASSOCIATED PIPING SYSTEM.
5. GROOVED END VALVES MAY BE USED WITH GROOVED PIPING.

KEYED NOTES

A. VALVES, UNIONS, AND FLANGED JOINTS MAY BE USED IN ACCESSIBLE LOCATIONS ONLY, EXCLUDING CEILINGS USED AS AIR PLENUMS. ACCESSIBLE LOCATIONS ARE DEFINED AS EXPOSED CONSTRUCTION OR ABOVE LAY-IN CEILINGS. USE ONLY STEEL WELDED FITTINGS AND WELDED JOINTS IN CEILING USED AS AIR PLENUMS.

ROOF MOUNTED PIPING SUPPORT APPLICATION SCHEDULE

	SUPPORT TYPE								SHIELD TYPE			
PIPE TYPE & SIZE	LOW FIXED-HEIGHT SINGLE-BASE STAND	LOW ADJUSTABLE-HEIGHT SINGLE-BASE STAND	HIGH ADJUSTABLE-HEIGHT SINGLE-BASE STAND	LOW FIXED HEIGHT SINGLE-BASE ROLLER STAND	LOW ADJUSTABLE-HEIGHT SINGLE-BASE ROLLER STAND	HIGH MULTIPLE-BASE PIPE STAND	CUSTOM MULTIPLE BASE PIPE STAND	CURB-MOUNTING PIPE STAND	MSS TYPE 39 PROTECTION SADDLE	MSS TYPE 40 INSULATION PROTECTION SHIELD	THERMAL-HANGER SHIELD	KEYED NOTES
SINGLE PIPES												
NATURAL GAS NPS 5 AND SMALLER				X	X							
CONDENSATE DRAIN PIPE ALL SIZES	X	X										

GENERAL NOTES

1. "X" INDICATES APPROVED HANGER OR SUPPORT ELEMENTS. IF MORE THAN ONE HANGER OR SUPPORT ELEMENT IS INDICATED, SELECTION FROM APPROVED ELEMENTS IS CONTRACTOR'S OPTION.
2. REFER TO HANGER AND SUPPORT SECTION FOR APPROVED MANUFACTURERS. CONTRACTOR'S OPTION.
3. SUPPORT ELEMENTS IN CONTACT WITH BARE COPPER PIPE SHALL BE COPPER PLATED, PLASTIC OR PLASTIC COATED, FELT LINED, OR USE MANUFACTURED COPPER TUBE ISOLATORS.

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UNITARY ROOFTOP AIR CONDITIONING UNIT SCHEDULE

UNIT I.D.	AREA SERVED	SUPPLY FAN								EXHAUST/RELIEF FAN					COOLING SECTION – DX									INTEGRAL AIR-COOLED CONDENSING SECTION			HEATING SECTION – GAS FIRED (NATURAL GAS)						FILTER SECTION				ROOF CURB			MAXIMUM UNIT DIMENSIONS			MAXIMUM UNIT OPERATING WEIGHT LBS. (WITH CURB)	TOTAL UNIT ELECTRICAL					MODEL NO.	NOTES
		AIRFLOW CFM	MINIMUM OUTSIDE AIR FLOW CFM	E.S.P. IN. W.G.	FAN SUCTION OR DISCHARGE S.P. IN. W.G. AT COOLING COIL DRAIN PAN	T.S.P. IN. W.G.	FAN SPEED RPM	BHP	HP	AIRFLOW CFM	E.S.P. IN. W.G.	FAN SPEED RPM	BHP	HP	MIXED AIR		UNIT LEAVING AIR		NET UNIT CAPACITY		NUMBER OF CIRCUITS	REFRIG. TYPE	MAX. FACE VEL. F.P.M.	DESIGN AMBIENT TEMP °F	MIN. AMBIENT TEMP. °F	NO. OF CAPACITY CONTROL STAGES	AIR TEMP.		CAPACITY (MBH)		MIN/MAX MANUFACTURER REQUIRED INLET PRESSURE AT GAS TRAIN (IN. W.G.)	MAXIMUM ALLOWABLE OUTPUT AT MINIMUM FIRING RATE (MBH)	MIN. NO. OF CAPACITY CONTROL STAGES	TYPE	MERV	AIR PRESS. DROP		TYPE		HEIGHT	LENGTH	HEIGHT (W/O CURB)	WIDTH		VOLTS	PHASE	MCA	MOP	OPTIONS/ ACCESSORIES		
															E.D.B. °F	E.W.B. °F	L.D.B. °F	L.W.B. °F	TOTAL MBH	SENSIBLE MBH							E.A.T. °F	L.A.T. °F	INPUT	OUTPUT						INITIAL IN. W.G.	FINAL IN. W.G.	STANDARD	VIBRATION ISOLATION SPRING CURB NOTE 7												
RTU-2	FIRST FLOOR	1,400	120	2.00	-2.5	--	1,240	1.21	1.50	1,400	0.5	--	--	--	76.1	64.0	53.8	52.1	48.7	33.7	--	R-410A	--	95.0	0	1	64.0	96.4	60	49	4.5/10.5	--	2	PLEATED	13	--	1	NO	NO	--	89	42	59	1,378	208	3	40.1	50	B	JA4ZHN06D2D6BAA3A2	
RTU-4	FIRST FLOOR	1,200	180	2.00	-2.5	--	1,197	1.08	1.50	1,200	0.5	--	--	--	76.9	64.0	53.0	50.5	46.7	30.9	--	R-410A	--	95.0	0	1	59.5	97.3	60	49	4.5/10.5	--	2	PLEATED	13	--	1	NO	NO	--	89	42	59	1,390	208	3	40.1	50	B	JA4ZJN06D2D6BAA3A2	
RTU-7	SECOND FLOOR	1,200	90	2.00	-2.5	--	1,197	1.08	1.50	1,200	0.5	--	--	--	75.9	63.0	52.1	49.2	46.5	30.9	--	R-410A	--	95.0	0	1	64.8	102.6	60	49	4.5/10.5	--	2	PLEATED	13	--	1	NO	NO	--	89	42	59	1,390	208	3	40.1	50	B	JA4ZJN06D2D6BAA3A2	
RTU-8	SECOND FLOOR	1,800	140	2.00	-2.5	--	1,228	1.47	2.00	1,800	0.5	--	--	--	76.0	64.0	53.1	52.2	62.0	44.5	--	R-410A	--	95.0	0	1	64.6	98.0	80	65	4.5/10.5	--	2	PLEATED	13	--	1	YES	NO	18	89	42	59	1,479	208	3	46.4	60	B	JA5ZHN08D2D6BAA3A2	
RTU-9	FIRST FLOOR	2,700	520	2.00	-2.5	--	1,211	2.68	3.00	2,700	0.5	--	--	--	77.4	65.0	54.9	53.7	91.7	65.7	--	R-410A	--	95.0	0	2	56.5	89.4	120	96	4.5/10.5	--	2	PLEATED	13	--	1	YES	NO	18	89	51	59	1,675	208	3	61.8	70	B	J07ZJN12R2D6BAA3A2	
RTU-10	SECOND FLOOR	1,000	90	2.00	-2.5	--	1,177	1.09	1.50	1,000	0.5	--	--	--	76.1	64.0	51.7	51.3	36.6	26.4	--	R-410A	--	95.0	0	1	63.7	109.1	60	49	4.5/10.5	--	2	PLEATED	13	--	1	NO	NO	--	89	42	59	1,338	208	3	34.3	40	B	JA3ZHN06D2D6BAA3A2	

NOTE:
1. REFER TO SCHEDULES GENERAL NOTES.
2. MODEL NUMBERS ARE JCI UNLESS OTHERWISE NOTED
3. DESIGN MINIMUM OUTSIDE AIRFLOW CFM (VENTILATION) LISTED IS BASED ON THE ESTIMATED MAXIMUM OCCUPANT LOAD. REFER TO TEMPERATURE CONTROL DRAWINGS FOR OUTSIDE AIR CONTROL SEQUENCE.
4. MERV DESIGNATES THE "MINIMUM EFFICIENCY REPORTING VALUE" AS EVALUATED UNDER ASHRAE STANDARD 52.2 1999.
5. AIR HANDLING UNIT TOTAL STATIC PRESSURE IS BASED ON THE DIRTY FILTER AIR PRESSURE DROP UNLESS NOTED OTHERWISE.
6. UNIT SHALL HAVE A SINGLE POINT ELECTRICAL CONNECTION WITH FACTORY INSTALLED DISCONNECT MEANS, STARTERS, AND CONTROLS.

MAXIMUM SOUND POWER LEVELS

UNIT I.D.	UNIT INLET Lw BY OCTAVE BAND								UNIT DISCHARGE Lw BY OCTAVE BAND							
	63 HZ (DB)	125 HZ (DB)	250 HZ (DB)	500 HZ (DB)	1000 HZ (DB)	2000 HZ (DB)	4000 HZ (DB)	8000 HZ (DB)	63 HZ (DB)	125 HZ (DB)	250 HZ (DB)	500 HZ (DB)	1000 HZ (DB)	2000 HZ (DB)	4000 HZ (DB)	8000 HZ (DB)
RTU-2	81	74	66	64	61	56	51	47	83	81	75	72	72	65	66	60
RTU-4	81	74	66	64	61	56	51	47	83	81	75	72	72	65	66	60
RTU-7	81	74	66	64	61	56	51	47	83	81	75	72	72	65	66	60
RTU-8	81	74	65	62	59	55	50	46	86	81	66	66	65	61	62	54
RTU-9	74	76	76	74	72	68	68	63	74	76	76	74	72	68	68	63
RTU-10	81	73	67	63	60	55	51	47	82	81	74	71	71	66	66	61

NOTE: SEE NOTES UNDER PART "A"

FAN SCHEDULE

UNIT IDENTIFICATION	SYSTEM SERVED	TYPE	AIRFLOW CFM	T.S.P. IN. W.G.	MINIMUM WHEEL DIAMETER INCHES	RPM	CLASS	ARRANGEMENT	OUTLET VELOCITY FPM	MOTOR				MODULATION/ CONTROL TYPE	ELECTRICAL			UNIT INLET Lw BY OCTAVE BAND								MODEL NUMBER	REMARKS
										BHP	HP	RPM	DRIVE TYPE		VOLTS	PHASE	OPTIONS/ ACCESSORIES	63 HZ (DB)	125 HZ (DB)	250 HZ (DB)	500 HZ (DB)	1000 HZ (DB)	2000 HZ (DB)	4000 HZ (DB)	8000 HZ (DB)		
EF-2	TOILET ROOMS AND JANITOR'S CLOSETS	ROOF-MOUNTED CENTRIFUGAL	340	0.5	--	1,612	--	--	--	.07	1/10	1,725	DIRECT	ECM	120	1	B	70	75	72	63	59	56	51	44	G-085-VG	

NOTE:
1. REFER TO SCHEDULES GENERAL NOTES.
2. MODEL NUMBERS ARE GREENHECK UNLESS OTHERWISE NOTED.
3. REFER TO VIBRATION ISOLATOR APPLICATION SCHEDULE.

DUCT SILENCER SCHEDULE

UNIT IDENTIFICATION	SYSTEM SERVED	AIRFLOW CFM	A.P.D. IN. W.G.	MAX P.D. IN W.G.	VELOCITY AT DIL RATING FPM	DYNAMIC INSERTION LOSS (DIL) dB								DIMENSIONS			CONSTRUCTION					MODEL NUMBER	KEYED NOTES
						63	125	250	500	1K	2K	4K	8K	W INCHES	H INCHES	L INCHES	TYPE	OUTER CASING TYPE	FILL MATERIAL	LINER	CASING MATERIAL		
DS-2S	RTU-2 SUPPLY	1,275	0.24	0.25	(937)	12	18	21	26	33	38	30	18	14	14	72	RE	STD.	FIBERGLASS	YES	GALVANIZED	ERMT72/8E	
DS-2R	RTU-2 RETURN	1,275	0.17	0.25	-(937)	14	18	21	26	33	36	28	17	14	14	72	RE	STD.	FIBERGLASS	YES	GALVANIZED	ERMT72/8D	
DS-4S	RTU-4 SUPPLY	1,130	0.08	0.13	(830)	9	13	14	17	22	26	21	14	14	14	48	RE	STD.	FIBERGLASS	YES	GALVANIZED	ERMT48/8C	
DS-4R	RTU-4 RETURN	1,130	0.11	0.13	-(830)	8	14	19	22	34	39	29	18	14	14	36	RE	STD.	FIBERGLASS	YES	GALVANIZED	ERMT36/2D	
DS-7S	RTU-7 SUPPLY	1,065	0.16	0.25	(782)	14	20	23	30	36	42	32	20	14	14	84	RE	STD.	FIBERGLASS	YES	GALVANIZED	ERMT84/8E	
DS-7R	RTU-7 RETURN	1,065	0.17	0.25	-(782)	14	21	24	28	36	38	29	18	14	14	72	RE	STD.	FIBERGLASS	YES	GALVANIZED	ERMT72/8E	
DS-8SA	RTU-8 SUPPLY	1,020	0.12	0.25	(749)	9	13	16	19	25	29	24	15	14	14	48	RE	STD.	FIBERGLASS	YES	GALVANIZED	ERMT48/8D	
DS-8RA	RTU-8 RETURN	860	0.03	0.25	-(737)	8	12	13	15	17	21	17	12	12	14	48	RE	STD.	FIBERGLASS	YES	GALVANIZED	ERMT48/8A	
DS-8SB	RTU-8 SUPPLY	695	0.09	0.25	(715)	8	12	16	19	28	33	26	17	10	14	36	RE	STD.	FIBERGLASS	YES	GALVANIZED	ERMT36/4D	
DS-8RB	RTU-8 RETURN	860	0.03	0.25	-(737)	8	12	13	15	17	21	17	12	12	14	48	RE	STD.	FIBERGLASS	YES	GALVANIZED	ERMT48/8A	
DS-9S	RTU-9 SUPPLY	2,560	0.16	0.16	(1197)	8	11	16	24	28	27	19	13	22	14	60	RS	STD.	FIBERGLASS	YES	GALVANIZED	RHT60/5E	
DS-9R	RTU-9 RETURN	2,560	0.16	0.16	-(1197)	8	13	23	35	34	25	18	14	22	14	60	RS	STD.	FIBERGLASS	YES	GALVANIZED	RH60/5E	
DS-10S	RTU-10 SUPPLY	885	0.18	0.25	(650)	15	22	30	36	44	55	46	28	14	14	84	RE	STD.	FIBERGLASS	YES	GALVANIZED	ERMT84/2F	
DS-10R	RTU-10 RETURN	885	0.13	0.25	-(650)	9	15	16	19	27	30	22	15	14	14	36	RE	STD.	FIBERGLASS	YES	GALVANIZED	ERMT36/8E	

GENERAL NOTES:
1. DUCT SILENCER MODEL NUMBERS ARE BASED ON PRICE UNLESS OTHERWISE NOTED.
2. LENGTH SHOWN FOR ELBOW SILENCERS IS CENTERLINE LENGTH.
3. VELOCITY SHOWN IS +(FORWARD FLOW) OR -(REVERSE FLOW) AS DEFINED BY ASTM E477-99.
4. PRESSURE DROP, DYNAMIC INSERTION LOSS AND SELF GENERATED NOISE PER ASTM E477-99.
5. MAXIMUM PRESSURE DROP WITH SYSTEM EFFECTS = SILENCER PRESSURE DROP PER ASTM E477-99 + SYSTEM EFFECTS FOR NEARBY DUCT ELEMENTS.
6. TYPE: RS = RECTANGULAR STRAIGHT; RE = RECTANGULAR ELBOW; REE = RECTANGULAR EXTENDED ELBOW; CS = CIRCULAR STRAIGHT; CE = CIRCULAR ELBOW.

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5447 Woodward, Detroit, MI

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AIR TERMINAL TYPE

DUCT CONNECTIONS		DISCHARGE SOUND POWER/RADIATED SOUND POWER – dB						DIMENSIONS		MODEL NUMBER	REMARKS
INLET SIZE INCHES	OUTLET SIZE INCHES	125 Hz	250 Hz	500 Hz	1000 Hz	2000 HZ	4000 HZ	LENGTH INCHES	HEIGHT INCHES		
6ø	12x8	73/66	69/63	62/52	56/42	53/40	49/36			ESV	BASED ON 350 CFM
8ø	12x10	72/68	70/59	66/53	63/47	57/46	53/46			ESV	BASED ON 650 CFM
10ø	14x12-1/2	78/71	70/61	65/56	61/50	58/47	53/45			ESV	BASED ON 900 CFM
12ø	16x15	76/72	73/63	69/59	65/53	61/48	57/46			ESV	BASED ON 1500 CFM
16ø	24x18	78/70	73/63	70/58	68/53	64/52	59/50			ESV	BASED ON 2500 CFM
24x16	38x18	83/74	81/69	76/63	74/54	73/48	68/41			ESV	BASED ON 5300 CFM

NOTE:
1. MODEL NUMBERS ARE TITUS UNLESS OTHERWISE NOTED.
2. MAXIMUM SOUND POWER LEVEL BASED ON 2" PRESSURE DROP ACROSS UNIT WITH NO ALLOWANCE FOR EXTERNAL ATTENUATION.

AIR TERMINAL UNIT WITH HOT WATER COIL SCHEDULE

UNIT IDENTIFICATION	INLET SIZE	AREA SERVED	UNIT SERVED FROM	AIR FLOW					HEATING COIL (NOTE 3)										REMARKS
				COOLING MAX	COOLING MIN.	HEATING MIN.	HEATING MAX	MAXIMUM A.P.D. W/COIL	CAPACITY MBH	NUMBER ROWS	AIR		WATER						
											E.D.B °F	L.D.B. °F	FLOW GPM	E.W.T. °F	L.W.T. °F	MAXIMUM W.P.D. FT. HEAD	CONTROL VALVE W.P.D. FT. HEAD	CONTROL VALVE TYPE	
TU-001	10ø	CLASSROOM 001	(E)AHU-1	660	230	230	660	0.5	17.9	2	55	80	1.8	140	120	5	10	2-WAY	
TU-005	8ø	CLASSROOM 005	(E)AHU-1	460	145	145	460	0.5	12.5	2	55	80	1.2	140	120	5	10	2-WAY	
TU-023	8ø	CLASSROOM 023 & PERSONAL ROOM 024	(E)AHU-1	570	145	145	570	0.5	15.5	2	55	80	1.5	140	120	5	10	2-WAY	
TU-090.01	6ø	CORRIDOR 090.01	(E)AHU-1	200	130	130	200	0.5	7.6	2	55	90	0.8	140	120	5	10	2-WAY	

NOTE:
1. MODEL NUMBERS ARE TITUS UNLESS OTHERWISE NOTED.
2. MAXIMUM PRESSURE DROP SCHEDULED SHALL BE THE MAXIMUM ALLOWABLE STATIC PRESSURE FOR BOX AND COIL AT THE MAXIMUM CFM.
3. HEATING COIL SELECTION BASED ON HEATING MAXIMUM AIR FLOW.
4. TERMINAL UNITS SHALL HAVE BOTTOM MOUNTED UNIT CONTROLLERS.

GRILLE, REGISTER, AND DIFFUSER SCHEDULE

UNIT IDENTIFICATION	TYPE	FACE SIZE	NECK SIZE	FRAME TYPE	ACCESSORY	CONSTRUCTION	FINISH	MODEL NUMBER	REMARKS
S-1	DIFFUSER	24x24	SEE PLANS	SEE NOTE 2	NONE	STEEL	WHITE	SPD	
S-2	GRILLE	NECK + 1-3/4	SEE PLANS	SEE NOTE 2	NONE	STEEL	WHITE	520	
S-3	DIFFUSER	12x12	SEE PLANS	SEE NOTE 2	NONE	STEEL	WHITE	SPD	
S-4	DIFFUSER	24x24	SEE PLANS	SEE NOTE 2	NONE	STEEL	WHITE	VPD-HC	
R-1	GRILLE	24x12	22x10	SEE NOTE 2	NONE	STEEL	WHITE	PDDR	
R-2	GRILLE	24x24	22x22	SEE NOTE 2	NONE	STEEL	WHITE	PDDR	
E-1	GRILLE	12x12	SEE PLANS	SEE NOTE 2	OPPOSED BLADE DAMPER	STEEL	WHITE	PDDR	
E-2	GRILLE	NECK + 1-3/4	SEE PLANS	SEE NOTE 2	OPPOSED BLADE DAMPER	STEEL	WHITE	530	
T-1	GRILLE	NECK + 1-3/4	SEE PLANS	SEE NOTE 2	NONE	STEEL	WHITE	530	
T-2	GRILLE	NECK + 1-11/16	SEE PLANS	SEE NOTE 2	NONE	STEEL	WHITE	80	

NOTE:
1. MODEL NUMBERS ARE PRICE UNLESS OTHERWISE NOTED.
2. COORDINATE FRAME TYPE WITH ARCHITECT.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
MECHANICAL SCHEDULES

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M7.4

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TEMPERATURE CONTROL - SYMBOLS LIST

SCHEMATIC SYMBOLS

SYMBOL	DESCRIPTION
AQ	AQUASTAT, STRAP ON BULB
CO2	CARBON DIOXIDE SENSOR – WALL MOUNTED
CS	CURRENT SWITCH
	DAMPER – OPPOSED BLADE
	DAMPER – PARALLEL BLADE
M	DAMPER MOTOR
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
DPS	DIFFERENTIAL PRESSURE SWITCH
CM	FIRE ALARM SYSTEM, ADDRESSABLE CONTROL MODULE
FM	FLOW METER
FS	FLOW SWITCH
FZ	FREEZESTAT
P	GAUGE – PRESSURE
	GUARD FOR STAT OR SENSOR
H	HUMIDITY SENSOR, DUCT MOUNTED
	LINE – ELECTRIC
	LINE – PNEUMATIC
M/S	MOTOR STARTER
OS	OCCUPANCY SENSOR
R	RELAY, ELECTRIC
VFC	VARIABLE FREQUENCY CONTROLLER
AI	SIGNAL – DDC/BAS, ANALOG INPUT
AO	SIGNAL – DDC/BAS, ANALOG OUTPUT
DI	SIGNAL – DDC/BAS, DIGITAL INPUT
DO	SIGNAL – DDC/BAS, DIGITAL OUTPUT

SCHEMATIC SYMBOLS (CONT.)

SYMBOL	DESCRIPTION
DD	SMOKE DETECTOR – DUCT MOUNTED
SD	SMOKE DETECTOR – SPACE MOUNTED
S/S	START/STOP RELAY
SPT	STATIC PRESSURE TRANSMITTER
SP	STATIC PRESSURE SENSOR OR PROBE
SW	SWITCH
T	TEMPERATURE SENSOR – RIGID ELEMENT IN WELL
T	TEMPERATURE SENSOR – DUCT MOUNTED AVG ELEMENT
T	TEMPERATURE SENSOR – DUCT MOUNTED RIGID ELEMENT
T	THERMOSTAT OR TEMPERATURE SENSOR (AS DEFINED ON TC DRAWINGS)
XF	TRANSFORMER
	VALVE – 2 WAY CONTROL VALVE
	VALVE – 3 WAY CONTROL VALVE
VFC	VARIABLE FREQUENCY CONTROLLER

WIRING SYMBOLS

SYMBOL	DESCRIPTION
M/S	COIL – MOTOR STARTER CONTACTOR
	COIL – EP OR SOLENOID VALVE
	CONTACT – INSTANT OPERATING, NO
	CONTACT – INSTANT OPERATING, NC
	GROUND
	MOTOR, SINGLE PHASE

WIRING SYMBOLS (CONT.)

SYMBOL	DESCRIPTION
O, H, A	SWITCH – 3 POSITION SELECTOR HAND/OFF/AUTO
	SWITCH – MANUAL SPST, NO
	SWITCH – MANUAL SPST, NC
	SWITCH – MANUAL SPDT
	SWITCH – PRESSURE & VACUUM, NO
	SWITCH – PRESSURE & VACUUM, NC
	SWITCH – TEMPERATURE ACTUATED, NO
	SWITCH – TEMPERATURE ACTUATED, NC
	THERMAL OVERLOAD, SINGLE PHASE
OLs	THERMAL OVERLOAD CONTACTS – 3 PHASE
	TRANSFORMER
	WIRE TERMINATION AT DEVICE
	WIRE TO WIRE TERMINATION
	WIRING NOT CONNECTED

ABBREVIATIONS

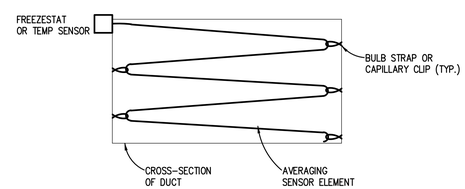
ABBREVIATION	DESCRIPTION
BAS	BUILDING AUTOMATION SYSTEM
DDC	DIRECT DIGITAL CONTROL
NO	NORMALLY OPEN
NC	NORMALLY CLOSED
TC	TEMPERATURE CONTROL

NOTES:

1. SOME SYMBOLS & ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.
2. REFER TO MECHANICAL STANDARDS ON DRAWING M0.1 FOR ADDITIONAL SYMBOLS & ABBREVIATIONS THAT MAY BE USED ON TEMPERATURE CONTROL DRAWINGS.

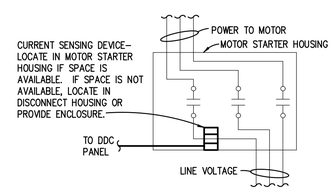
TC GENERAL NOTES:

1. THESE GENERAL NOTES SHALL BE APPLICABLE FOR ALL TC DRAWINGS.
2. "PROVIDE" IS DEFINED AS "FURNISH AND INSTALL".
3. TEMPERATURE CONTROLS SHALL BE PROVIDED BY SIEMENS AND WILL BE CONTRACTED DIRECTLY THROUGH WSU. REFER TO FRONT END DOCUMENTS.
4. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.
5. FOR TEMPERATURE CONTROL DRAWINGS ONLY: ALL DETAILED INFORMATION IDENTIFIED WITH HEAVY LINE WEIGHT SHALL BE PROVIDED BY INSTALLING ELECTRICAL CONTRACTOR. ALL OTHER INFORMATION IDENTIFIED WITH LIGHT LINE WEIGHT SHALL BE PROVIDED BY OTHER TRADES. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH SIEMENS FOR ACTUAL CONTROL WIRING REQUIREMENTS.
6. ALL CONTROL SCHEMATICS AND WIRING DIAGRAMS ARE FOR THE CLARIFICATION OF EQUIPMENT INTERLOCKING FUNCTIONS AND THE INTERFACE OF VARIOUS CONTRACTOR'S WORK AND SHALL NOT BE MISTAKEN AS SHOP DRAWINGS FOR ACTUAL INSTALLATION.
7. TC SYSTEM PROVIDER SHALL PROVIDE DDC CONTROLLERS AS REQUIRED TO MEET INTENT OF DESIGN DOCUMENTS. REFER TO THE PLANS FOR THE DDC FUNCTIONS THAT APPLY TO EACH MECHANICAL SYSTEM.
8. ALL TC PROVIDED COMPONENTS SHALL BE LABELED PER SPECIFICATIONS.
9. CURRENT SWITCHES USED FOR OPERATIONAL STATUS SHALL HAVE CURRENT THRESHOLD SETPOINT ADJUSTED TO INDICATE BELT OR DRIVE FAILURE.
10. ALL CONTROL VALVES AND ASSOCIATED CONTROL ACTUATORS IDENTIFIED ON TC DRAWINGS SHALL BE FURNISHED BY TC SYSTEM PROVIDER UNLESS OTHERWISE NOTED.



AVERAGING ELEMENT INSTALLATION DETAIL

NO SCALE



CURRENT SWITCH INSTALLATION DETAIL

NOTES:

1. PROVIDE CURRENT SWITCHES FOR ALL MOTOR LOADS FOR STATUS INDICATION BY DDC TO THE BAS.

SEQUENCE OF OPERATION

CURRENT SWITCH INSTALLATION:

1. ALL SETPOINTS, DELAYS, AND DEADBANDS DESCRIBED IN THE SEQUENCE SHALL BE ADJUSTABLE BY SYSTEM OPERATORS (CREATE REQUIRED VIRTUAL POINTS).
2. INSTALL CURRENT SWITCH ON MOTOR LEADS. CURRENT SWITCH SHALL BE ADJUSTED TO MEET THE CURRENT DRAW REQUIRED TO DETECT FAN BELT LOSS OR PUMP COUPLING DETACHMENT.
3. UPON FAN OR PUMP MOTOR START AND AFTER 120 SECOND (ADJUSTABLE) DELAY, IF THE CURRENT DRAW IS NOT APPROPRIATE, DDC SHALL ALARM THE MOTOR STATUS POINT. WHEN MOTOR IS ON AND NOT IN ALARM, DDC SHALL TOTALIZE MOTOR RUN TIME HOURS FOR BAS USE.
4. UPON FAN OR PUMP MOTOR STOP, AND AFTER 120 SECONDS (ADJUSTABLE) DELAY, IF THE CURRENT DRAW IS NOT ZERO, DDC SHALL ALARM THE MOTOR STATUS POINT.
5. ALL PUMP AND FAN MOTORS REQUIRE CURRENT SWITCHES (SEE DRAWINGS).

EWIC GENERAL NOTES:

1. THESE GENERAL NOTES SHALL BE APPLICABLE FOR EWIC PROVISION OF TC WIRING.
2. "PROVIDE" IS DEFINED AS "FURNISH AND INSTALL".
3. WIRING CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL APPLICABLE CODES. ALL WIRING SHALL COMPLY WITH SIEMENS WIRING DETAILS.
4. ALL CONTROL SCHEMATICS AND WIRING DIAGRAMS ARE FOR THE CLARIFICATION OF EQUIPMENT INTERLOCKING FUNCTIONS AND THE INTERFACE OF VARIOUS CONTRACTORS'S WORK AND SHALL NOT BE MISTAKEN AS SHOP DRAWINGS FOR ACTUAL INSTALLATION.
5. ALL ELECTRICAL CONTRACTOR INSTALLED WIRING SHALL BE LABELED PER SPECIFICATIONS.
6. ALL WIRING AND SYSTEM CONTROL VOLTAGES SHALL BE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATION AND THE ELECTRICAL SPECIFICATIONS.
7. VARIABLE FREQUENCY CONTROLLERS, FAN MOTOR STARTER WIRING, CONTROL VOLTAGE TRANSFORMERS AND ASSOCIATED POWER WIRING SHALL BE PROVIDED BY OTHER TRADES.
8. ALL DDC AND CONTROL INTERLOCK WIRING SHALL BE BY ELECTRICAL CONTRACTOR UNLESS OTHERWISE NOTED. COORDINATE WITH TC CONTROLS SUPPLIER AND MOTOR STARTER SUPPLIERS TO DETERMINE EXACT WIRING REQUIREMENTS AND TERMINATION POINTS.
9. ALL DDC AND CONTROL INTERLOCK WIRING BETWEEN COMPONENTS SHALL BE INSTALLED WITHOUT INTERMEDIATE STOPS. WIRE SPLICING AT INTERMEDIATE TERMINAL STRIPS IS NOT ACCEPTABLE.
10. ALL ELECTRICAL WIRING AND RACEWAY SYSTEMS SHALL COMPLY WITH ELECTRICAL SPECIFICATION REQUIREMENTS. WHERE RACEWAY IS REQUIRED, TWO SEPARATE ELECTRICAL RACEWAY SYSTEMS SHALL BE PROVIDED: ONE FOR 120V WIRING AND THE OTHER FOR 24V WIRING.
11. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER SUPPLIES REQUIRED FOR TC SYSTEM UNLESS OTHERWISE NOTED. 120V POWER SUPPLIES SHALL BE FROM DEDICATED AND/OR SPARE CIRCUITS AND COORDINATED WITH POWER ELECTRICAL CONTRACTOR.
12. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL FIELD MOUNTED COMPONENTS.
13. REMOTELY MOUNTED FIELD DEVICES SUCH AS RELAYS, CONTROL TRANSFORMERS, ETC., SHALL BE HOUSED IN AN ENCLOSURE PROVIDED BY THE ELECTRICAL CONTRACTOR.
14. CONTROL TRANSFORMERS WHEN REQUIRED SHALL BE SIZED FOR 150% OF ACTUAL LOAD.
15. ALL INSTRUMENTATION TUBING REQUIRED FOR DPS AND DPT COMPONENT INSTALLATIONS SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR.
16. ELECTRICAL CONTRACTOR SHALL FIELD MOUNT ALL REQUIRED PACKAGED CONTROL COMPONENTS FURNISHED BY EQUIPMENT SUPPLIERS WHERE INDICATED. ALL REQUIRED 24V AND 120V FIELD WIRING SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE. ELECTRICAL CONTRACTOR SHALL COORDINATE SPECIFIC SYSTEM WIRING REQUIREMENTS WITH PACKAGED EQUIPMENT SUPPLIERS.
17. ELECTRICAL CONTRACTOR SHALL INSTALL ALL TC COMPONENTS AND PROVIDE WIRING PER SIEMENS SHOP DRAWINGS AND AS COORDINATED WITH SIEMENS PROJECT REPRESENTATIVE INCLUDING NETWORK COMMUNICATION INTERFACE TO EXISTING TC COMPONENTS. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND COORDINATE WITH OTHER TRADES.
18. ELECTRICAL CONTRACTOR SHALL PROVIDE REQUIRED 120V/24V POWER SUPPLY TRANSFORMER(S) FOR CONTROLLERS AND OTHER CONTROL COMPONENTS AS REQUIRED.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
TEMPERATURE CONTROL STANDARDS AND GENERAL NOTES

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M8.1

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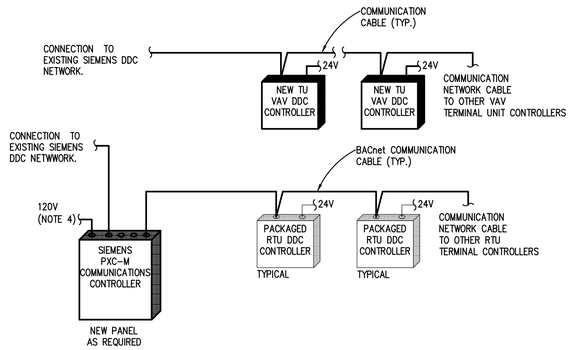


DDC SYSTEM ARCHITECTURE

NO SCALE

NOTES:

1. EXISTING BUILDING AUTOMATION SYSTEM (BAS) IS SIEMENS APOGEE. NEW DDC SYSTEM COMPONENTS SHALL BE PROVIDED BY SIEMENS. INTEGRATE NEW SIEMENS DDC CONTROLS TO EXISTING SIEMENS DDC NETWORK VIA WSU ETHERNET. SIEMENS SHALL UPDATE THE EXISTING BAS FRONT-END HARDWARE/SOFTWARE/DATABASE/GRAPHICS AS NECESSARY TO ACCOMMODATE NEW WORK.

2. REFER TO TEMPERATURE CONTROL DRAWINGS FOR THE REQUIRED POINTS ASSOCIATED WITH EACH SYSTEM.

3. ELECTRICAL CONTRACTOR SHALL INSTALL ALL NEW TC COMPONENTS AND PROVIDE WIRING PER SIEMENS SHOP DRAWINGS AND AS COORDINATED WITH SIEMENS PROJECT REPRESENTATIVE INCLUDING NETWORK COMMUNICATION INTERFACE TO EXISTING TC COMPONENTS. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND COORDINATE WITH OTHER TRADES.

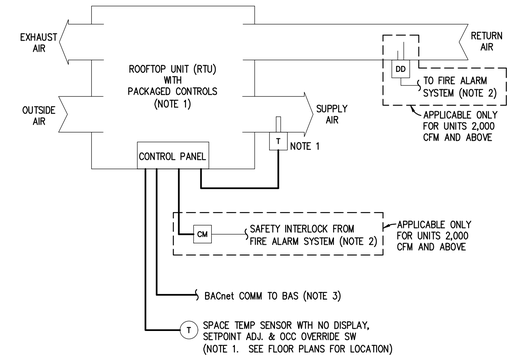
4. TC CONTRACTOR SHALL PROVIDE REQUIRED 120V/24V POWER SUPPLY TRANSFORMER(S) FOR CONTROLLERS AND OTHER CONTROL COMPONENTS AS REQUIRED. ELECTRICAL CONTRACTOR SHALL PROVIDE REQUIRED 120V POWER SUPPLIES FROM DEDICATED AND/OR SPARE CIRCUITS IDENTIFIED ON ELECTRICAL PANEL SCHEDULES. COORDINATE WITH ELEC CONTRACTOR. REFER TO ELECTRICAL DWGS FOR PANEL SCHEDULES AND PANEL LOCATIONS.

5. BUILDING DDC NETWORK SHALL BE CONNECTED TO THE OWNER'S ETHERNET. SIEMENS SHALL COORDINATE WITH WSU IT STAFF FOR THE PROVISION OF IP DROPS AND RELATED COMMUNICATION REQUIREMENTS.

6. TC CONTRACTOR SHALL INTERFACE NEW DDC PANELS OR OTHER COMPONENTS WITH EXISTING SIEMENS NETWORK. PROVIDE NEW GRAPHIC REQUIREMENTS AT OWNER'S EXISTING BAS FRONT END COMPUTER. NEW UPDATED GRAPHICS SHALL MATCH EXISTING GRAPHICS.

TC GENERAL NOTES:

1. ALL GENERAL NOTES ON DRAWING M8.1 SHALL BE APPLICABLE FOR THIS DRAWING.



PACKAGED RTU-2, 4, 7, 8, 9, & 10 FIELD WIRING & CONTROL

TYPICAL EXCEPT WHERE NOTED

NOTES:

1. SINGLE ZONE ROOF TOP UNIT SHALL BE SUPPLIED FOR PROJECT WITH COMPLETE PACKAGED CONTROLS INCLUDING CONTROL DAMPERS AND BACnet COMMUNICATION INTERFACE FOR BAS SCHEDULING, OCCUPIED AND UNOCCUPIED SPACE TEMP SETPOINT ADJUSTMENT AND UNIT MONITORING. SINGLE POINT POWER SUPPLY CONNECTION SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR. TC CONTRACTOR SHALL INSTALL SPACE TEMPERATURE SENSOR AND DUCT SUPPLY TEMP SENSOR FURNISHED BY UNIT SUPPLIER AND PROVIDE CONTROL FIELD WIRING FOR UNIT AS INDICATED PLUS ANY MISCELLANEOUS FIELD CONTROL WIRING THAT MAY BE REQUIRED FOR PACKAGED UNIT THAT IS NOT SHOWN.

2. ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE ALARM SYSTEM COMPONENTS AND WIRING FROM FIRE ALARM PANEL TO CONTROL MODULE. TC CONTRACTOR SHALL PROVIDE WIRING FROM CONTROL MODULE TO UNIT SAFETY CUTOUT CIRCUIT.

3. TC CONTRACTOR SHALL PROVIDE BACnet COMMUNICATION INTERFACE WIRING FROM ROOF TOP UNIT CONTROL PANEL TO NEW BAS NETWORK SUPERVISORY CONTROLLER, COMMUNICATING BUT NOT LIMITED TO THE FOLLOWING POINTS AS AVAILABLE:

- OCCUPANCY MODE SCHEDULER (FROM BAS)
- EFFECTIVE OCCUPANCY MODE (TO BAS)
- SUPPLY FAN COMMAND STATUS (TO BAS)
- SUPPLY FAN RUN STATUS (TO BAS)
- RELIEF (EXHAUST) FAN COMMAND STATUS (TO BAS)
- RELIEF (EXHAUST) FAN RUN STATUS (TO BAS)
- RELIEF (EXHAUST) FAN SPEED COMMAND STATUS (TO BAS)
- OCCUPIED SPACE HEATING TEMP SETPOINT (FROM BAS)
- UNOCCUPIED SPACE HEATING TEMP SETPOINT (FROM BAS)
- OCCUPIED SPACE COOLING TEMP SETPOINT (FROM BAS)
- UNOCCUPIED SPACE COOLING TEMP SETPOINT (FROM BAS)
- OA DAMPER MINIMUM POSITION SETPOINT (FROM BAS)
- DISCHARGE AIR TEMP (TO BAS)
- RETURN AIR TEMPERATURE (TO BAS)
- HEATING/COOLING MODE STATUS (TO BAS)
- HEATING OUTPUT (MODULATING) STATUS (TO BAS)
- DAMPER OUTPUT STATUS (TO BAS)
- DAMPER ECONOMIZER ENABLE STATUS (TO BAS)
- COMPRESSOR ENABLE (MODULATING) STATUS (TO BAS)
- DIRTY FILTER STATUS (TO BAS)
- MISC UNIT TEMPERATURE MONITORING (TO BAS)
- TEMP SENSOR FAILURE ALARMS (TO BAS)
- UNIT SAFETY CUTOUT ALARMS (TO BAS)
- OTHER MISC ALARMS (TO BAS)

SEQUENCE OF OPERATION (SINGLE ZONE RTU):

1. FOR OCCUPIED MODE, RTU WITH PACKAGED CONTROLS SHALL MAINTAIN OCCUPIED SPACE TEMPERATURE HEATING OF 70°F OR COOLING SETPOINT OF 74°F WHILE SUPPLY FAN OPERATES CONTINUOUSLY BASED ON OCCUPANCY SCHEDULE FROM BAS. DAMPER ECONOMIZER SHALL BE AVAILABLE FOR COOLING MODE BASED ON OA/RA COMPARATIVE DRY BULB TEMPERATURE. LOCAL +/- 2°F SETPOINT ADJUSTMENT.

2. RELIEF (EXHAUST) FAN VFC SHALL BE CONTROLLED BY PACKAGED CONTROLS TO MAINTAIN PROPER RELIEF AIR FLOW BASED ON DAMPER POSITION.

3. FOR UNOCCUPIED MODE, RTU WITH PACKAGED CONTROLS SHALL CYCLE SUPPLY FAN AS REQUIRED TO MAINTAIN UNOCCUPIED SPACE TEMPERATURE HEATING SETPOINT OF 62°F OR COOLING SETPOINT OF 82°F. OA DAMPER SHALL REMAIN CLOSED.

4. BACnet OPEN PROTOCOL COMMUNICATIONS INTERFACE SHALL BE PROVIDED WITH PACKAGED CONTROLS AND CONNECTED TO OWNER'S SIEMENS BUILDING AUTOMATION SYSTEM THAT SHALL ALLOW UNIT OCCUPIED MODE SCHEDULING, FAN STATUSES, SPACE TEMP SETPOINT ADJUSTMENTS AND ADDITIONAL UNIT MONITORING AS AVAILABLE.

5. DUCT SMOKE DETECTOR SHALL DEACTIVATE RTU WHEN PRODUCTS OF COMBUSTION ARE DETECTED (APPLIES TO UNITS 2,000 CFM AND ABOVE).

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TEMPERATURE CONTROLS

Project Number: 2013088.22 — WSU Project No: 063-301464

Drawn By: AMJ — Approved By: BMR

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Signature:

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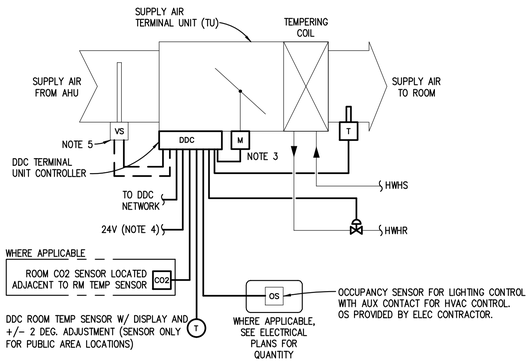


TERMINAL UNIT WITH REHEAT COIL CONTROL

TYPICAL EXCEPT WHERE NOTED

NOTES:

1. REFER TO MECHANICAL FLOOR PLANS FOR UNIT QUANTITY, UNIT LOCATIONS AND ROOM TEMP SENSOR LOCATIONS.
2. WHERE INDICATED ON FLOOR PLANS, SPACE TEMPERATURE SHALL BE REFERENCED TO MULTIPLE TERMINAL UNIT CONTROLLERS VIA DDC COMMUNICATION BUS.
3. TERMINAL UNITS SHALL OPERATE AS CONSTANT VOLUME WHERE SCHEDULED MIN & MAX CFM ARE EQUAL. DAMPER PROVIDE BY TERMINAL UNIT MANUFACTURER. DAMPER ACTUATOR PROVIDE BY TC CONTRACTOR.
4. EWIC CONTRACTOR SHALL PROVIDE 24V POWER SUPPLY TO TERMINAL UNIT CONTROLLER.
5. TERMINAL UNIT MANUFACTURER SHALL PROVIDE VELOCITY SENSOR AND TUBING.
6. PROVIDE GLOBE CONTROL VALVES FOR HEATING COILS.

SEQUENCE OF OPERATION

NOTE: ALL SETPOINTS DESCRIBED IN SEQUENCE SHALL BE ADJUSTABLE BY SYSTEM OPERATORS (CREATE REQUIRED VIRTUAL POINTS).

1. ALL VAV TU'S ASSOCIATED WITH A SINGLE ZONE SPACE TEMP SENSOR SHALL BE DEFINED AS A ZONE.
2. THE SUPPLY AIR TERMINAL UNIT'S (TU) MINIMUM AND MAXIMUM AIRFLOW SETTINGS SHALL BE AS INDICATED ON THE MECHANICAL SCHEDULES.
3. WHEN ZONE SPACE TEMP RISES ABOVE THE COOLING SETPOINT, THE SUPPLY AIR TU CONTROLLER SHALL KEEP THE TEMPERING COIL VALVE CLOSED AND MODULATE THE SUPPLY AIRFLOW BETWEEN ITS MINIMUM AND MAXIMUM SETTINGS.
4. WHEN ZONE SPACE TEMP FALLS BELOW HEATING SETPOINT, THE SUPPLY AIR TU CONTROLLER SHALL FIRST MODULATE TU DAMPER TOWARDS ITS MIN AIRFLOW SETTING. WHEN AIRFLOW IS AT MIN, CONTROLLER SHALL MODULATE TEMPERING COIL CONTROL VALVE TOWARDS OPEN. IF THE ROOM TEMP IS BELOW SETPOINT WITH TEMPERING COIL VALVE FULL OPEN, THE SUPPLY AIR TU CONTROLLER SHALL MODULATE THE SUPPLY AIRFLOW BETWEEN ITS MINIMUM AND MAXIMUM SETTING TO MAINTAIN ROOM TEMPERATURE.
5. (WHERE APPLICABLE): WHEN ZONE IS UNOCCUPIED DURING SCHEDULED OCCUPIED MODE AS DETERMINED BY MONITORING THE LIGHTING OCCUPANCY SENSOR AUX CONTACTS, DDC SHALL OPERATE TERMINAL UNIT IN A TEMPORARY UNOCCUPIED MODE
6. ZONE SPACE TEMPERATURE SETPOINTS SHALL BE AS FOLLOWS:

   HEATING OCCUPIED SETPOINT = 72°F

   HEATING TEMPORARY UNOCC SETPOINT (WHERE APPLICABLE) = 68°F

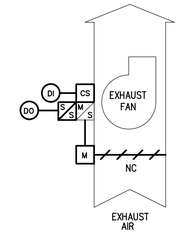
   HEATING UNOCCUPIED SETPOINT = 62°F

   COOLING OCCUPIED SETPOINT = 75°F

   COOLING TEMPORARY UNOCC SETPOINT (WHERE APPLICABLE) = 78°F

   COOLING UNOCCUPIED SETPOINT = 82°F

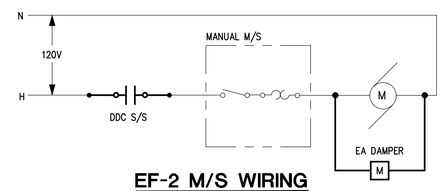
8. WHEN SPACE CARBON DIOXIDE LEVEL RISES ABOVE 1100 PPM SETPOINT, THE SUPPLY AIR TU CONTROLLER SHALL OVERRIDE TEMPERATURE CONTROL AND MODULATE DAMPER OPEN TO INCREASE SUPPLY AIRFLOW UNTIL CO2 SETPOINT IS SATISFIED. THE TEMPERING COIL VALVE SHALL BE MODULATED TO MAINTAIN SPACE TEMP SETPOINT.
9. WHEN SPACE CARBON DIOXIDE LEVEL FALLS BELOW 1100 PPM SETPOINT AFTER BEING IN VENTILATION OVERRIDE MODE, THE SUPPLY AIR TU CONTROLLER SHALL MODULATE THE TU DAMPER CLOSED UNTIL TEMPERING COIL VALVE IS CLOSED OR UNTIL TU DAMPER IS AT MINIMUM AIRFLOW POSITION. DURING BUILDING UNOCCUPANCY, RELATED RTU SHALL CYCLE AS REQUIRED TO MAINTAIN BUILDING SETBACK AND SETUP TEMP SETPOINTS.
10. WHEN RELATED AHU ARE DEACTIVATED, THE TERMINAL UNIT TEMPERING COIL CONTROL VALVE SHALL REMAIN CLOSED.
11. WHEN RELATED AHU IS OPERATING IN WARM-UP OR PURGE MODES, THE TERMINAL UNIT SHALL MAINTAIN ITS MAXIMUM AIRFLOW SETTING UNTIL ZONE SPACE OCCUPIED TEMPERATURE SETPOINT IS ACHIEVED.
12. THE DDC TU CONTROLLER SHALL RECALIBRATE THE AIRFLOW SENSOR AND RESET FLOATING CONTROL DAMPER AND CONTROL VALVE ACTUATORS ONCE A WEEK MINIMUM. THE PROCESS SHALL OCCUR WHEN RELATED AHU IS DEACTIVATED.
13. TERMINAL UNIT SUPPLY AIR TEMP SHALL BE MONITORED FOR SYSTEM DIAGNOSTICS.
14. DDC SHALL SUM ALL ASSOCIATED TERMINAL UNIT AIR FLOWS FOR DISPLAY AT THE BAS AHU GRAPHIC.



EXHAUST FAN EF-2 CONTROL

SEQUENCE OF OPERATION:

1. HAND/OFF/AUTO POSITIONS SHALL BE IN AUTO POSITION FOR AUTOMATED CONTROL THRU BAS.
2. EXHAUST FAN SHALL BE STARTED AND STOPPED BY DDC BASED ON AHU OCCUPIED SCHEDULE. WIRING INTERLOCK SHALL OPEN DAMPERS.
3. DDC SHALL MONITOR EF RUN STATUS THRU CURRENT SWITCH. ABNORMAL STATUS CONDITION SHALL ACTIVATE ALARM.



EF-2 M/S WIRING

NOTES:

1. INSTALL CURRENT SWITCH ON MOTOR LEADS TO MONITOR FAN STATUS.

TC GENERAL NOTES:

1. ALL GENERAL NOTES ON DRAWING M8.1 SHALL BE APPLICABLE FOR THIS DRAWING.

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FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
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Drawing Title
TEMPERATURE CONTROLS

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: AMJ Approved By: BMR

Scale: As Indicated

Seal:

Signature:

Drawing No:
M8.3

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ELECTRICAL SYMBOL LIST

(NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT)

SYMBOL	DESCRIPTION
FX	FIXTURE TYPE
	LIGHTING FIXTURE
	DIRECT/INDIRECT LIGHTING FIXTURE
	EMERGENCY FIXTURE
	EMERGENCY FIXTURE
	NIGHT LIGHTING FIXTURE
FX-NL	LIGHTING FIXTURE
	WALL MOUNTED LIGHTING FIXTURE
	LIGHTING FIXTURE
	DIRECTIONAL LIGHTING FIXTURE
	PENDANT LIGHTING FIXTURE
	WALL SCONCE
	LIGHTING TRACK
	TRACK LIGHTING FIXTURE
	POLE MOUNTED LIGHTING FIXTURE
	POLE MOUNTED LIGHTING FIXTURE – POST TOP
	BOLLARD LIGHTING FIXTURE
	EMERGENCY LIGHTING UNIT
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)
	EXIT LIGHTING FIXTURE WITH DIRECTIONAL ARROWS (SHADED AREA INDICATES FACE)
	EXIT LIGHTING FIXTURE – WALL MOUNTED
BCELTS/ELTD	BRANCH CIRCUIT EMERGENCY LIGHTING TRANSFER SWITCH / EMERGENCY LOAD TRANSFER DEVICE
ALCR	AUTOMATIC LOAD CONTROL RELAY
LC	LIGHTING CONTROL DEVICE – REFER TO LIGHTING CONTROL SCHEDULE
123	ROOM CONTROL DESIGNATION – REFER TO LIGHTING CONTROL SCHEDULE
S	SINGLE POLE TOGGLE SWITCH
S2	TWO POLE TOGGLE SWITCH
S3	3 WAY TOGGLE SWITCH
S4	4 WAY TOGGLE SWITCH
K	KEY OPERATED SWITCH
K3	3 WAY KEY OPERATED SWITCH
K4	4 WAY KEY OPERATED SWITCH
D	DIMMER SWITCH
D3	3 WAY DIMMER SWITCH
DO	DIMMER OCCUPANCY SENSOR SWITCH
DL	LOW VOLTAGE DIMMER SWITCH
SP	PILOT SWITCH
	DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES
S3S3	3-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES
S4S4	4-WAY DUAL SWITCHING FOR INNER/OUTER LAMPS OF FLUORESCENT LIGHT FIXTURES
ST	DIGITAL TIME SWITCH
SI	ILLUMINATED TOGGLE SWITCH FOR CONTROL OF LIGHTING ON CRITICAL POWER-ILLUMINATED WHEN SWITCH IS IN "OFF" POSITION
SL	LOW VOLTAGE SWITCH
SO	OCCUPANCY SENSOR
SO2	OCCUPANCY SENSOR — REFER TO ELECTRICAL STANDARD SCHEDULES
OS X	OCCUPANCY SENSOR "X" INDICATES TYPE

SYMBOL	DESCRIPTION
TWC	TWO-WAY COMMUNICATION SYSTEM CALL STATION
TWCD	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER
TWCA	TWO-WAY COMMUNICATION SYSTEM ANNUNCIATOR & COMMUNICATION PANEL
TWCP	TWO-WAY COMMUNICATION SYSTEM POWER SUPPLY WITH BATTERY BACK-UP
TWCDP	TWO-WAY COMMUNICATION SYSTEM AUTO DIALER POWER SUPPLY WITH BATTERY BACK-UP
RGP	REMOTE GENERATOR ANNUCIATOR PANEL
ATS	AUTOMATIC TRANSFER SWITCH
UPS	UN-INTERRUPTABLE POWER SUPPLY
CSX	LOW VOLTAGE CONTROL STATION "X" INDICATES TYPE
	SINGLE/DUPLEX RECEPTACLE
	SINGLE/DUPLEX RECEPTACLE CONTROLLED BY AUTOMATIC CONTROL DEVICE/SYSTEM
	QUAD RECEPTACLE
	ABOVE COUNTER DUPLEX RECEPTACLE (SIMILAR FOR TAMPER RESISTANT, QUADS, EMERGENCY, USB AND GFCI RECEPTACLES)
	DUPLEX RECEPTACLE-GROUND FAULT CIRCUIT INTERRUPTER
	DUPLEX EMERGENCY RECEPTACLE
	DUPLEX TAMPER RESISTANT RECEPTACLE
	QUAD TAMPER RESISTANT RECEPTACLE
	ABOVE COUNTER DUPLEX TAMPER RESISTANT RECEPTACLE
	DUPLEX UPS RECEPTACLE
	DUPLEX RECEPTACLE WITH 2 USB PORTS
	4 PORT USB CHARGING STATION
	CEILING MOUNTED DUPLEX RECEPTACLE
	CEILING MOUNTED QUAD RECEPTACLE
	POWER POLE
X	SPECIAL RECEPTACLE – REFER TO ELECTRICAL STANDARD SCHEDULES
	MULTI-OUTLET RACEWAY
"X"	MULTI-SERVICE DROP SEE ELECTRICAL DETAILS AND DIAGRAMS SHEET "X" INDICATES TYPE
PTX	POKE-THROUGH ASSEMBLY "X" INDICATES TYPE
FBX	FLOOR SERVICE FITTING "X" INDICATES TYPE
AFX	ACCESS FLOOR SERVICE FITTING "X" INDICATES TYPE
RX	CORD REEL "X" INDICATES TYPE

SYMBOL	DESCRIPTION
CP	CONTROL PANEL
	MOTOR
VFC	VARIABLE FREQUENCY CONTROLLER.
	MANUAL CONTROLLER
	MAGNETIC CONTROLLER
	COMBINATION MAGNETIC CONTROLLER
	NON-FUSIBLE DISCONNECT SWITCH
	FUSIBLE DISCONNECT SWITCH
CB	ENCLOSED CIRCUIT BREAKER
	PUSH BUTTON STATION
	JUNCTION BOX
	LOW VOLTAGE CONTROL STATION "X" INDICATES TYPE
	HARD WIRE POWER CONNECTION
DP	AUTOMATIC DOOR CONTROLLER
PP	AUTOMATIC DOOR PUSH PAD OPERATOR
	GROUND ROD
	GROUND CONNECTION
X	CONDUIT SLEEVE WITH BUSHINGS LENGTH AS REQUIRED "X" INDICATES CONDUIT SIZE
	CONDUIT UP
	CONDUIT DOWN
	EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET
	ABOVE COUNTER EMPTY BOX FOR FUTURE TELECOMMUNICATION OUTLET
	EMPTY BOX FOR FUTURE CEILING MOUNTED TELECOMMUNICATION OUTLET
X	TELECOMMUNICATION OUTLET "X" INDICATES TYPE
X	ABOVE COUNTER TELECOMMUNICATION OUTLET "X" INDICATES TYPE
X	TELECOMMUNICATION CEILING MOUNTED OUTLET "X" INDICATES TYPE
	REFER TO ELECTRICAL STANDARD SCHEDULES
	TELECOMMUNICATION BACKBOARD
TGB	TELECOMMUNICATION GROUNDING BUS BAR
TMGB	TELECOMMUNICATION MAIN GROUNDING BUS BAR
IC	INTERCOM OUTLET
S	SPEAKER
S	SPEAKER – WALL MOUNTED
MIC	MICROPHONE
VC	VOLUME CONTROL/STATION SELECTOR
B	SIGNALING BELL
	SINGLE FACE CLOCK – CEILING MOUNTED
	SINGLE FACE CLOCK – WALL MOUNTED
	DOUBLE FACE CLOCK – CEILING MOUNTED
	DOUBLE FACE COMBINATION CLOCK/SPEAKER CEILING MOUNTED
	DOUBLE FACE CLOCK – WALL MOUNTED
	DOUBLE FACE COMBINATION CLOCK/SPEAKER WALL MOUNTED
TC	TIME CLOCK
C	CONTACTOR
P	PHOTOCELL
TT	TWIST TIMER

SYMBOL	DESCRIPTION
	SECURITY CAMERA
MD	MOTION DETECTOR
K	SECURITY KEY SWITCH
DC	DOOR CONTACT
KP	KEY PAD
CR	ACCESS CONTROL STATION
DB	DURESS PUSH BUTTON STATION
DE	DELAYED EGRESS
REX	REQUEST TO EXIT STATION
	CIRCUIT BREAKER
	DRAWOUT CIRCUIT BREAKER MANUALLY/ OPERATED
	DRAWOUT CIRCUIT BREAKER ELECTRICALLY/ OPERATED
	SWITCH
	AUTOMATIC OR MANUAL TRANSFER SWITCH
	FUSE
	TRANSFORMER
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
	LIGHTNING ARRESTOR
X	PANELBOARD "X" INDICATES PANELBOARD NAME
	GROUND
	STRESS CONE TERMINATION
K	SECURITY KEY INTERLOCK
G	ENGINE GENERATOR
M	UTILITY METER
EMU	ELECTRONIC METERING UNIT
A	AMMETER
V	VOLTMETER
AS	AMMETER SWITCH
VS	VOLTMETER SWITCH
SPD	SURGE PROTECTIVE DEVICE
CR	CONTROL RELAY
TDR	TIME DELAY RELAY
	THERMAL OVERLOAD RELAY
	NORMALLY OPEN CONTACTS
	NORMALLY CLOSED CONTACTS
	N.O. PUSH BUTTON SINGLE CIRCUIT
	N.C. PUSH BUTTON SINGLE CIRCUIT
X-X	CABLE VAULT "X-X" INDICATES TYPE
	BRANCH CIRCUIT PANELBOARD
	LOAD CENTER
	MOTOR CONTROL CENTER
T	TRANSFORMER
	DISTRIBUTION PANEL
GB	GROUND BUS
PB	PLUG IN BUSWAY
FB	FEEDER BUSWAY

SYMBOL	DESCRIPTION
F	MANUAL FIRE ALARM BOX
SD	SMOKE DETECTOR
DD	DUCT SMOKE DETECTOR
CO	CARBON MONOXIDE DETECTOR
RT	REMOTE TEST STATION (FOR DUCT DETECTOR)
TD	THERMAL DETECTOR
BD	PROJECTED BEAM DETECTOR
F	FIRE ALARM BELL
F	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE
XX	FIRE ALARM VISUAL NOTIFICATION APPLIANCE "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
XX	FIRE ALARM COMBINATION VISUAL/ AUDIBLE "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
F XX	FIRE ALARM COMBINATION VISUAL/ AUDIBLE NOTIFICATION APPLIANCE- CEILING MOUNTED "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
XX	FIRE ALARM VISUAL NOTIFICATION APPLIANCE CEILING MOUNTED "XX" INDICATES CANDELA RATING IF NO RATING SHOWN, APPLIANCE IS 15cd
F	FIRE ALARM AUDIBLE NOTIFICATION APPLIANCE – CEILING MOUNTED
F	FIREFIGHTERS PHONE JACK
FACP	FIRE ALARM CONTROL PANEL
FAA	FIRE ALARM ANNUNCIATOR PANEL
NAC	NOTIFICATION APPLIANCE CIRCUIT EXTENDER PANEL
IM	ADDRESSABLE MONITORING MODULE
CM	ADDRESSABLE CONTROL MODULE
TS	TAMPER SWITCH
FS	FLOW SWITCH
DR	MAGNETIC DOOR RELEASE

ELECTRICAL DRAWING INDEX

SHEET NO.	SHEET TITLE
E0.1	ELECTRICAL STANDARDS AND DRAWING INDEX
E0.2	ELECTRICAL STANDARD SCHEDULES
ED2.0	LOWER LEVEL LIGHTING DEMOLITION PLAN
ED2.1	FIRST FLOOR LIGHTING DEMOLITION PLAN
ED2.2	SECOND FLOOR LIGHTING DEMOLITION PLAN
ED3.0	LOWER LEVEL POWER DEMOLITION PLAN
ED3.1	FIRST FLOOR POWER DEMOLITION PLAN
ED3.2	SECOND FLOOR POWER DEMOLITION PLAN
ED3.3	ROOF ELECTRICAL DEMOLITION PLAN
E2.0	LOWER LEVEL LIGHTING PLAN
E2.1	FIRST FLOOR LIGHTING PLAN
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E3.0	LOWER LEVEL POWER AND AUXILIARY SYSTEMS PLAN
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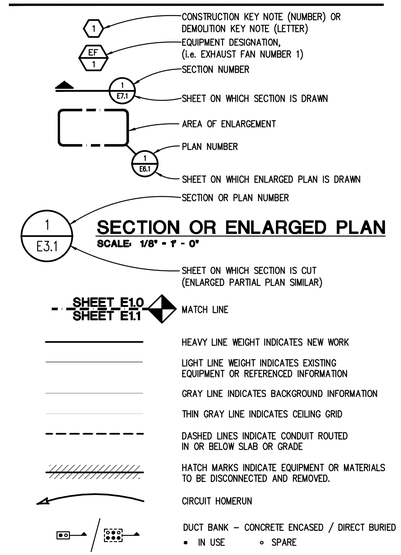
E3.2	SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN
E3.3	ROOF POWER AND AUXILIARY SYSTEMS PLAN
E4.1	ELECTRICAL DEMOLITION AND NEW WORK PLANS-ALTERNATE
E5.1	ONE LINE DIAGRAM – DEMOLITION
E5.2	ONE LINE DIAGRAM – NEW WORK
E5.3	PANEL SCHEDULES
E7.1	ELECTRICAL DETAILS AND DIAGRAMS

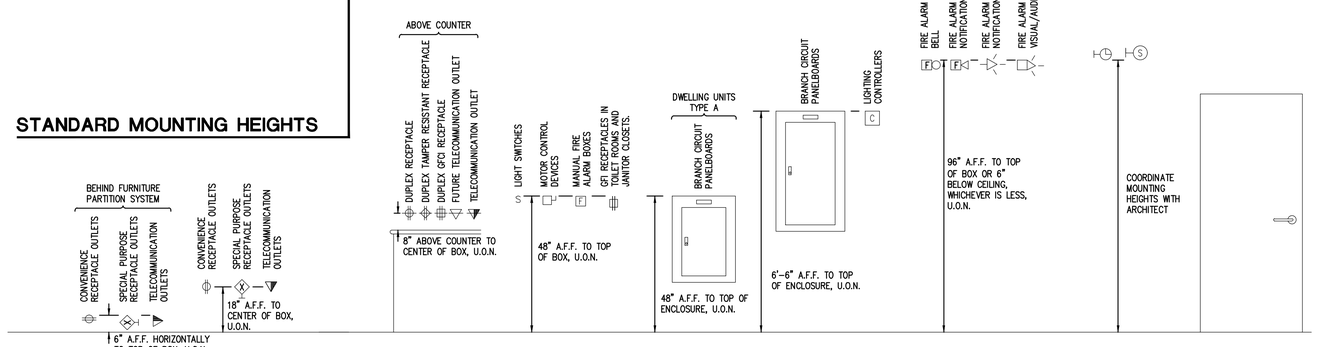
ELECTRICAL ABBREVIATION LIST

ABBREVIATION	DESCRIPTION
A	AMPERES
AF	AMPERES FRAME (BREAKER RATING)
AFCI	ARC FAULT CIRCUIT INTERRUPTER
A.F.F.	ABOVE FINISH FLOOR
AIC	AMPS INTERRUPTING CAPACITY
AL	AUDIENCE LEFT
AR	AUDIENCE RIGHT
AT	AMPERES TRIP (BREAKER SETTING)
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
BKR	BREAKER
BPS	BOLTED PRESSURE SWITCH
C	CONDUIT
CB	CIRCUIT BREAKER
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
DEMO	DEMOLITION
DIM	DIMENSION
DISC	DISCONNECT
DP	DISTRIBUTION PANEL
DS	DOWNSTAGE
DWG	DRAWING
EBU	EMERGENCY BATTERY UNIT
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
EM/ EMERG	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EO	ELECTRICALLY OPERATED
EPO	EMERGENCY POWER OFF
EWC	ELECTRIC WATER COOLER
EXIST	EXISTING
FA	FIRE ALARM
FLA	FULL LOAD AMPS
FLR	FLOOR
FOH	FRONT OF HOUSE
FSEC	FOOD SERVICE EQUIPMENT CONTRACTOR
FU	FUSE
G/GRD/EG	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFP	GROUND FAULT PROTECTION
HOA	HAND-OFF-AUTO
HP	HORSEPOWER
HV	HIGH VOLTAGE
HZ	HERTZ
IG	ISOLATED GROUND
JB	JUNCTION BOX
KV	KILOVOLT
KVA	KILOVOLT – AMPERES
KW	KILOWATT
KWH	KILOWATT – HOURS
LA	LIGHTNING ARRESTOR
LP	LIGHTING PANEL
LDP	LIGHTING DISTRIBUTION PANEL
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
MECH	MECHANICAL
MIN	MINIMUM
MISC.	MISCELLANEOUS
MLO	MAIN LUGS ONLY
MTD	MOUNTED
MTG	MOUNTING
MTR	MOTOR
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSIBLE
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OC	ON CENTER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
P	POLE
PB	PUSHBUTTON STATION
PH	PHASE
PT	POTENTIAL TRANSFORMER
PDP	POWER DISTRIBUTION PANEL
RECEPT.	RECEPTACLE
RDP	RECEPTACLE DISTRIBUTION PANEL
RP	RECEPTACLE PANEL
RSC	RIGID STEEL CONDUIT
SCHED	SCHEDULE
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
TB	TERMINAL BOX
TELECOM	TELECOMMUNICATIONS
TR	TAMPER RESISTANT
TTB	TELEPHONE TERMINAL BACKBOARD
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
US	UPSTAGE
V	VOLTS
W	WIRE OR WATTS
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF
(E)	EXISTING
(R)	RELOCATED

STANDARD METHODS OF NOTATION



STANDARD MOUNTING HEIGHTS



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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ELECTRICAL STANDARDS AND DRAWING INDEX

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
E0.1

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BRANCH CIRCUIT VOLTAGE DROP WIRING SCHEDULE FOR SINGLE PHASE CIRCUITS

BRANCH CKT RATING (A)	WIRE SIZE (AWG)	MAXIMUM BRANCH CIRCUIT LENGTH (IN FEET)				
		120V	208V	240V	277V	480V
20A	12	83	143	165	191	331
	10	128	222	256	295	511
	8	201	348	402	464	804
	6	313	542	625	721	1250
30A	10	85	148	170	197	341
	8	134	232	268	309	536
	6	208	361	417	481	833
	4	313	542	625	721	1250

NOTES:

1. THE ABOVE TABLE VALUES ARE BASED ON COPPER CONDUCTORS, IN STEEL CONDUIT, WITH A LOAD POWER FACTOR OF 0.85 PER NEC CHAPTER 9, TABLE 9.
2. PROVIDE BRANCH CIRCUIT CONDUCTORS AS INDICATED IN THE TABLE ABOVE FOR ALL LIGHTING AND RECEPTACLE BRANCH CIRCUITS. WHERE BRANCH CIRCUITS SERVE DEDICATED EQUIPMENT, THE CONTRACTOR MAY PERFORM VOLTAGE DROP CALCULATIONS BASED ON ACTUAL EQUIPMENT CONNECTED LOAD AND PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO A MAXIMUM OF 3%.
3. CONDUCTOR SIZES ARE BASED ON MAXIMUM OF 9 CURRENT CARRYING CONDUCTORS IN A SINGLE CONDUIT.
4. LIMITS FOR CONDUCTOR LENGTHS SHOWN ARE BASED ON A MAXIMUM BRANCH CIRCUIT LOADING OF 64% OF THE BRANCH BREAKER RATING AND A MAXIMUM OF 3 PERCENT VOLTAGE DROP TO COMPLY WITH ASHRAE 90.1 AND THE NEC. FOR CIRCUITS LOADED GREATER THAN 64% OF BRANCH BREAKER RATING, THE CONTRACTOR SHALL PROVIDE CONDUCTORS APPROPRIATELY SIZED TO LIMIT VOLTAGE DROP TO 3%.

TELECOMMUNICATIONS OUTLET SCHEDULE

TAG	DESCRIPTION	REMARKS
1	1 DATA/VOICE	
2	2 DATA/VOICE	
3	3 DATA/VOICE	
4	4 DATA/VOICE	
5	5 DATA/VOICE	
6	6 DATA/VOICE	
TV 1	1 COAX	
TV 2	1 COAX + 1 DATA	
TV 3	1 COAX + 2 DATA	

NOTE: REFER TO SPECIFICATIONS FOR TELECOMMUNICATION CABLE TYPE.

▽ EMPTY BOX W/ CONDUIT FOR FUTURE TELECOM OUTLET.

XX▼ TELECOM OUTLET. PROVIDE CABLE QUANTITIES PER SCHEDULE TAG ABOVE.

XX[FBX] TELECOM OUTLET TO BE PROVIDED IN FLOOR SERVICE FITTING. PROVIDE CABLE QUANTITIES PER SCHEDULE TAG ABOVE.

XX[PTX] TELECOM OUTLET TO BE PROVIDED IN POKE-THRU ASSEMBLY. PROVIDE CABLE QUANTITIES PER SCHEDULE TAG ABOVE.

XX[ ]◁ TELECOM OUTLET TO BE PROVIDED FOR CAMERAS. PROVIDE CABLE QUANTITIES PER SCHEDULE TAG ABOVE.

FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE - GENERAL PURPOSE

COPPER CONDUCTORS

OVERCURRENT DEVICE RATING (AMPERES)	WIRE SIZE (AWG OR KCMIL)		CONDUIT SIZE			
	PHASE & NEUTRAL	GROUND	SINGLE PHASE 2 WIRE+G (1PH, 1N, 1G)	SINGLE PHASE 3 WIRE+G (2PH, 1N, 1G)	THREE PHASE 3 WIRE+G (3PH, 1G)	THREE PHASE & NEUTRAL 4 WIRE+G (3PH, 1N, 1G)
15–20	12	12	3/4"	3/4"	3/4"	3/4"
25–30	10	10	3/4"	3/4"	3/4"	3/4"
35–40	8	10	3/4"	3/4"	3/4"	3/4"
* 45–50	8 (6)	10	3/4"	3/4"	3/4"	3/4"
* 60	6 (4)	10	3/4" (1")	3/4" (1")	3/4" (1")	1" (1 1/4")
70	4	8	1"	1 1/4"	1 1/4"	1 1/4"
* 80	4 (3)	8	1"	1 1/4"	1 1/4"	1 1/4"
* 90–100	3 (2)	8	1 1/4"	1 1/4"	1 1/4"	1 1/4"
* 110	2 (1)	6	–	1 1/4"	1 1/4"	1 1/4" (1 1/2")
* 125	1 (1/0)	6	–	1 1/4" (1 1/2")	1 1/4" (1 1/2")	1 1/2"
150	1/0	6	–	1 1/2"	1 1/2"	1 1/2"
175	2/0	6	–	2"	2"	2"
200	3/0	6	–	2"	2"	2 1/2"
225	4/0	4	–	2"	2"	2 1/2"
250	250	4	–	2 1/2"	2 1/2"	2 1/2"
300	350	4	–	2 1/2"	2 1/2"	3"
350	500	3	–	3"	3"	3"
400	500	3	–	3"	3"	3"

* = SEE NOTE 4

NOTES:

1. CONTRACTOR TO SIZE FEEDERS AND BRANCH CIRCUITS BASED ON THIS SCHEDULE AND OVER CURRENT DEVICE SIZE, UNLESS NOTED OTHERWISE.
2. CONTRACTOR MAY COMBINE 20A CIRCUITS AS NOTED IN SPECIFICATION.
3. CONDUCTORS ARE BASED ON THHN/THWN UP TO AND INCLUDING #4/0. LARGER THAN #4/0 ARE BASED ON TYPE XHHW.
4. CONDUCTORS ARE BASED ON 90°C, 600V. INSULATED COPPER WIRE APPLIED AT 75°C FOR TERMINATION RATED 60/75°C OR 75°C. FOR TERMINATION RATED AT 60°C, USE CONDUCTORS AND CONDUIT SIZES INDICATED IN PARENTHESES.
5. CONDUIT SIZES ARE VALID FOR EMT OR RGS. CONDUIT SIZES SHALL BE ADJUSTED AS REQUIRED FOR OTHER TYPES OF CONDUIT.
6. ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR AND PROVIDE REQUIRED WIRE SIZES TO ACCOMMODATE MECHANICAL EQUIPMENT LUG SIZES.
7. SIZE OF DISCONNECT SWITCH LOCATED AT EQUIPMENT SHALL BE SIZED BASED UPON OVERCURRENT PROTECTION OF THAT DEVICE.
8. OBTAIN APPROVAL FROM ENGINEER PRIOR TO INSTALLING DIFFERENT SIZE/QUANTITY OF CONDUCTORS TO OBTAIN AN EQUIVALENT AMPACITY.
9. SPLICE FROM ALUMINUM TO COPPER PRIOR TO ENTERING EQUIPMENT LISTED FOR USE WITH COPPER CONDUCTORS ONLY OR USE COPPER CONDUCTORS FOR THE ENTIRE LENGTH OF FEEDER.

SPECIAL RECEPTACLES

TYPE	DESCRIPTION
1	125V, 20A, SINGLE PHASE, LOCKING RECEPTACLE, 2 POLE, 3 WIRE (NEMA L5-20R)
2	250V, 20A, SINGLE PHASE, LOCKING RECEPTACLE, 2 POLE, 3 WIRE (NEMA L6-20R)
3	250V, 30A, SINGLE PHASE, LOCKING RECEPTACLE, 2 POLE, 3 WIRE (NEMA L6-30R)
4	250V, 20A, THREE PHASE, LOCKING RECEPTACLE, 3 POLE, 4 WIRE (NEMA L15-20R)
5	250V, 30A, THREE PHASE, LOCKING RECEPTACLE, 3 POLE, 4 WIRE (NEMA L15-30R)
6	208Y/120V, 30A, THREE PHASE, LOCKING RECEPTACLE, 4 POLE, 5 WIRE (NEMA L21-30R)
7	125/ 250V SINGLE PHASE RECEPTACLE, 3 POLE, 4 WIRE (NEMA 14-30R)
8	125/ 250V SINGLE PHASE RECEPTACLE, 3 POLE, 4 WIRE (NEMA 14-50R)

RACEWAY / CONDUCTOR / CABLE APPLICATION SCHEDULE

		WIRE		RACEWAY				CABLE/ CORD
		COPPER, TYPE THHN/THWN-2	COPPER, TYPE XHHW-2	ELECTRICAL METALLIC TUBING (EMT)	INTERMEDIATE METAL CONDUIT (IMC)	RIGID STEEL CONDUIT (RSC)	FLEXIBLE METAL CONDUIT (FMC)	METAL CLAD TYPE CABLE WITH INSULATED GROUND WIRE (TYPE MC)
BRANCH CIRCUITS – EXTERIOR	ROOFTOPS (WHEN APPROVED BY ENGINEER)		X		X	X		
BRANCH CIRCUITS – INTERIOR	EXPOSED, ABOVE 10' AFF UNFINISHED SPACES	X		X				
	CONCEALED, ACCESSIBLE CEILINGS (NOTE 2)	X		X				X
	CONCEALED, INACCESSIBLE CEILINGS	X		X				
	CONCEALED IN GYPSUM BOARD PARTITION WALLS	X		X			X	X
SPECIAL APPLICATIONS	CLASS 1 CONTROL CIRCUITS	X		X				
	CLASS 2 CONTROL CIRCUITS	X		X				

GENERAL NOTES

1. PROVIDE RIGID STEEL SWEEPS WHERE CONDUITS PENETRATE WALLS, CONCRETE SLABS, AND CONCRETE BASES.
2. REFER TO SPECIFICATIONS FOR RESTRICTIONS ON MC CABLE INSTALLATION.
3. CONDUIT AND WIRE ALLOWED WHEN ENCASED IN MINIMUM 2" CONCRETE.

INTERIOR LIGHTING CONTROL SCHEDULE

PLAN REFERENCE	ROOM TYPE	LOCAL CONTROL			CONTROL ON / OFF	SENSOR TYPE	TURN ON LIGHTING TO %	BI-LEVEL CONTROL	DAYLIGHT			SENSOR PARTIAL OFF		SENSOR FULL OFF TIME	TIME-CLOCK SCHEDULE	RECEPTACLE CONTROL	EMERGENCY LIGHTING CIRCUIT CONTROL	HVAC CONTROL	NOTES
		SWITCH TYPE	SWITCH CONTROL	SCENE CONTROL					SIDE LIGHT	TOP LIGHT	MAINTAIN FC LEVEL	TIME	%						
A	CLASSROOM/LECTURE HALL/TRAINING ROOM (ALL OTHER CLASSROOMS/LECTURE HALLS/TRAINING ROOMS)	LOW VOLTAGE	ON-OFF-DIM	NA	MANUAL ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	CONTINUOUS DIM	NA	NA	NA	NA	NA	20 MIN	NA	NA	BATTERY	YES	
B	OFFICE (ENCLOSED AND ≤ 250 SQFT)	LOW VOLTAGE	ON-OFF-DIM	NA	MANUAL ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	CONTINUOUS DIM	NA	NA	NA	NA	NA	20 MIN	NA	NA	BATTERY	YES	
C	OFFICE (OPEN PLAN)	LOW VOLTAGE	ON-OFF-DIM	NA	MANUAL ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	CONTINUOUS DIM	NA	NA	NA	NA	NA	20 MIN	NA	NA	BATTERY	YES	
D	CONFERENCE/MEETING/MULTIPURPOSE ROOM	LOW VOLTAGE	ON-OFF-DIM	NA	MANUAL ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	CONTINUOUS DIM	NA	NA	NA	NA	NA	20 MIN	NA	NA	BATTERY	YES	
E	CORRIDOR (ALL OTHER CORRIDORS)	LINE VOLTAGE	ON-OFF	NA	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	NA	NA	NA	NA	NA	NA	20 MIN	NA	NA	BATTERY		
F	STAIRWELL	LOW VOLTAGE	ON-OFF	NA	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	NA	NA	NA	NA	NA	NA	20 MIN	NA	NA	BATTERY		
G	RESTROOM (ALL OTHER RESTROOMS)	LOW VOLTAGE	ON-OFF	NA	SENSOR ON / SENSOR OFF	ULTRASONIC	FULL 100%	NA	NA	NA	NA	NA	NA	20 MIN	NA	NA	BATTERY		
H	STORAGE ROOM (< 50 SQFT)	LINE VOLTAGE	ON-OFF	NA	MANUAL ON / SENSOR OFF	ULTRASONIC	FULL 100%	NA	NA	NA	NA	NA	NA	20 MIN	NA	NA	BATTERY		
I	LOUNGE/BREAKROOM (ALL OTHER LOUNGES/BREAKROOMS)	LOW VOLTAGE	ON-OFF-DIM	NA	SENSOR ON / SENSOR OFF	DUAL TECHNOLOGY	PARTIAL 50%	CONTINUOUS DIM	NA	NA	NA	NA	NA	20 MIN	NA	NA	BATTERY		
J	LOUNGE/BREAKROOM (ALL OTHER LOUNGES/BREAKROOMS)	LOW VOLTAGE	ON-OFF-DIM	NA	MANUAL ON / SENSOR OFF	DUAL TECHNOLOGY	FULL 100%	CONTINUOUS DIM	NA	NA	NA	NA	NA	21 MIN	NA	NA	BATTERY		

NA = NOT APPLICABLE

NOTE:

1. REFER TO PLANS FOR LOCATION OF LOCAL CONTROL.
2. REFER TO PLANS FOR SCENE CONTROL.
3. REFER TO PLANS FOR PRIMARY AND SECONDARY DAYLIGHT ZONES.
4. PROVIDE EMERGENCY LIGHTING CIRCUIT CONTROL (ELTD OR ALCR) PER SWITCHING CIRCUIT AS REQUIRED.
5. CONTRACTOR SHALL PROVIDE FLOOR PLAN INDICATING SENSOR LOCATIONS OF CHOSEN CONTROL SYSTEM.
6. REFER TO LUMINAIRE SCHEDULE FOR FIXTURE CHARACTERISTICS.
7. LIGHTING SENSOR SHALL HAVE CONTACT FOR HVAC CONTROL WHEN A "YES" SELECTION IS MADE IN THE HVAC CONTROL COLUMN.

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NOTE: SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT APPLY TO THIS PROJECT.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ELECTRICAL STANDARD SCHEDULES

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
E0.2

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LOWER LEVEL LIGHTING DEMOLITION PLAN

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

ELECTRICAL DEMOLITION GENERAL NOTES:

1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
LOWER LEVEL LIGHTING DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
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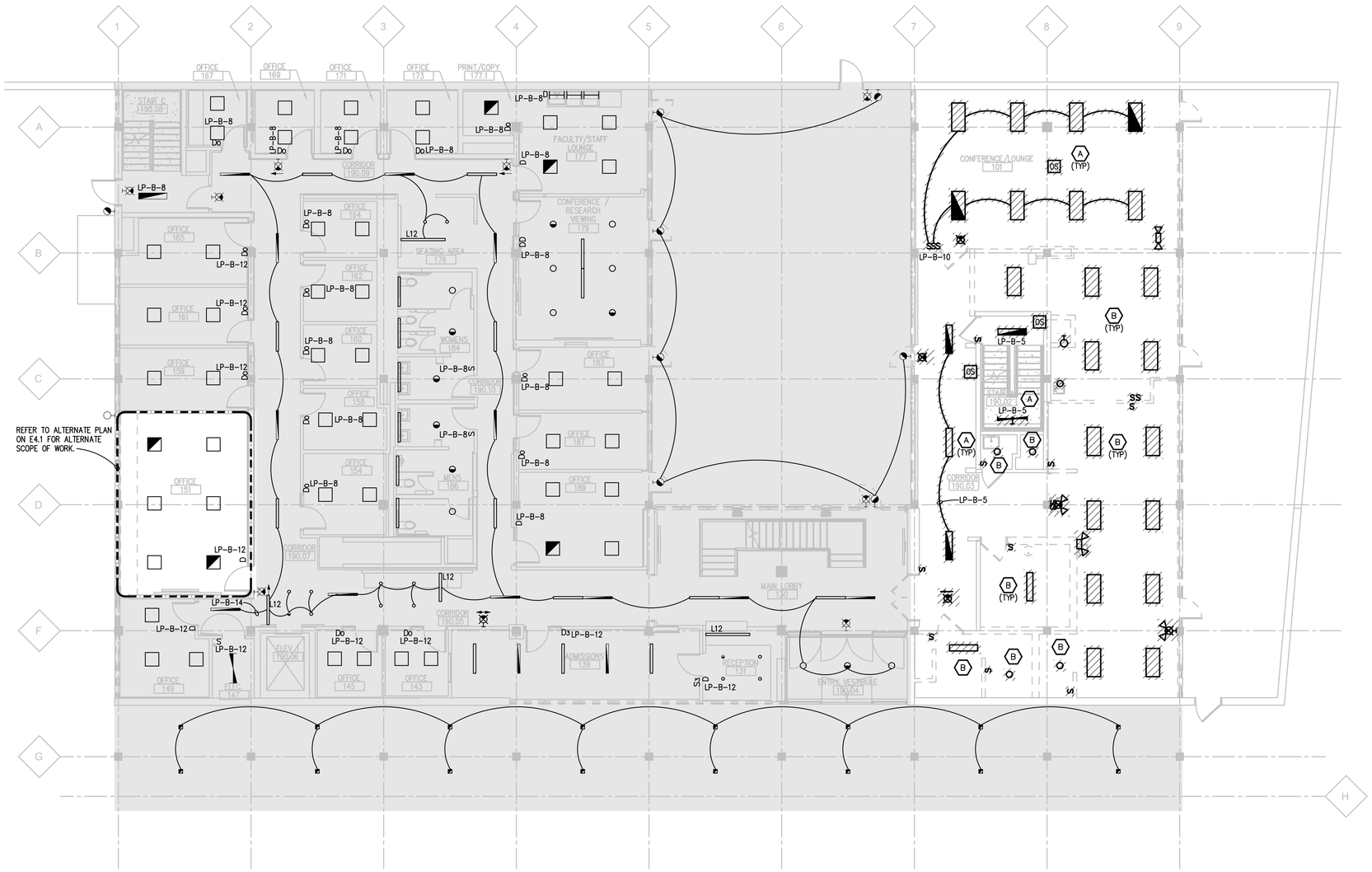

FIRST FLOOR LIGHTING DEMOLITION PLAN

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

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12. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
13. COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.
14. REFERENCE THE HAZARDOUS MATERIAL REPORTS FOR MATERIALS TO BE REMOVED BY OWNER.

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A. REMOVE LIGHT FIXTURE COMPLETE. EXISTING CIRCUITING TO REMAIN FOR REUSE.

B. REMOVE LIGHT FIXTURE, BRANCH CIRCUIT AND LIGHTING CONTROL COMPLETE.

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FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
FIRST FLOOR LIGHTING DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
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SECOND FLOOR LIGHTING DEMOLITION PLAN

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

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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
SECOND FLOOR LIGHTING DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

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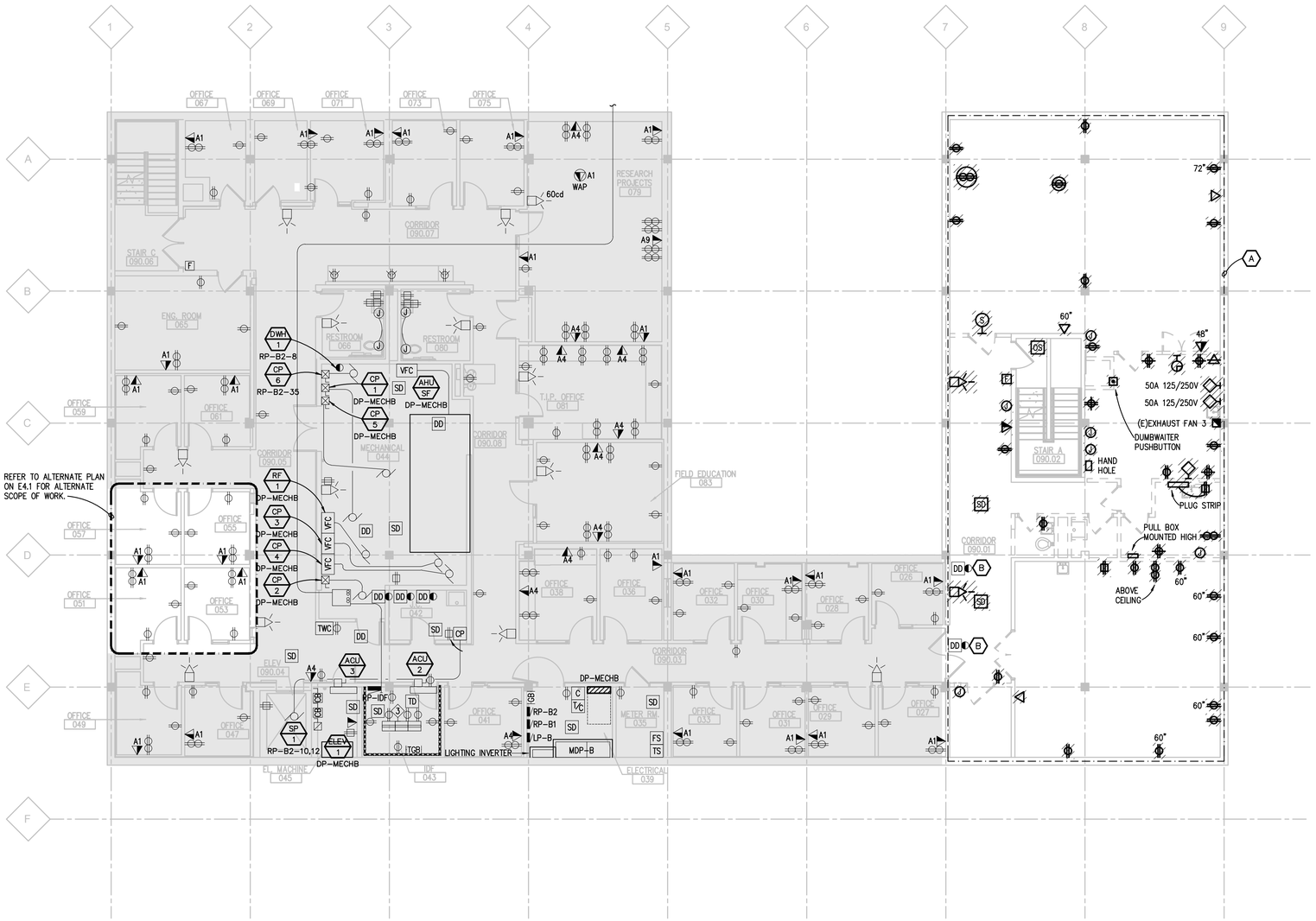

LOWER LEVEL POWER DEMOLITION PLAN

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

ELECTRICAL DEMOLITION GENERAL NOTES:

1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
3. REMOVE EQUIPMENT OR MATERIALS AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE COMPONENTS SHOWN.
4. COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
5. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
6. REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
7. MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
8. DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
9. PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
10. RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".
11. PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
12. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
13. COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.
14. REFERENCE THE HAZARDOUS MATERIAL REPORTS FOR MATERIALS TO BE REMOVED BY OWNER.

DEMOLITION KEY NOTES:

A. REMOVE ELECTRICAL SYSTEM COMPONENTS AND DEVICES COMPLETE, INCLUDING, BUT NOT LIMITED TO: LIGHT FIXTURES, LIGHT SWITCHES, SWITCHBOARDS, POWER DISTRIBUTION PANELBOARDS, PANELBOARDS, RECEPTACLES, TELECOMMUNICATIONS OUTLETS, TELECOMMUNICATIONS WIRING, FIRE ALARM DEVICES, AUDIO/VISUAL SYSTEMS, JUNCTION BOXES, AND CONDUIT AND WIRING, UNLESS OTHERWISE NOTED.

B. EXISTING TO REMAIN.

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Structural Engineer: Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
LOWER LEVEL POWER DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
ED3.0

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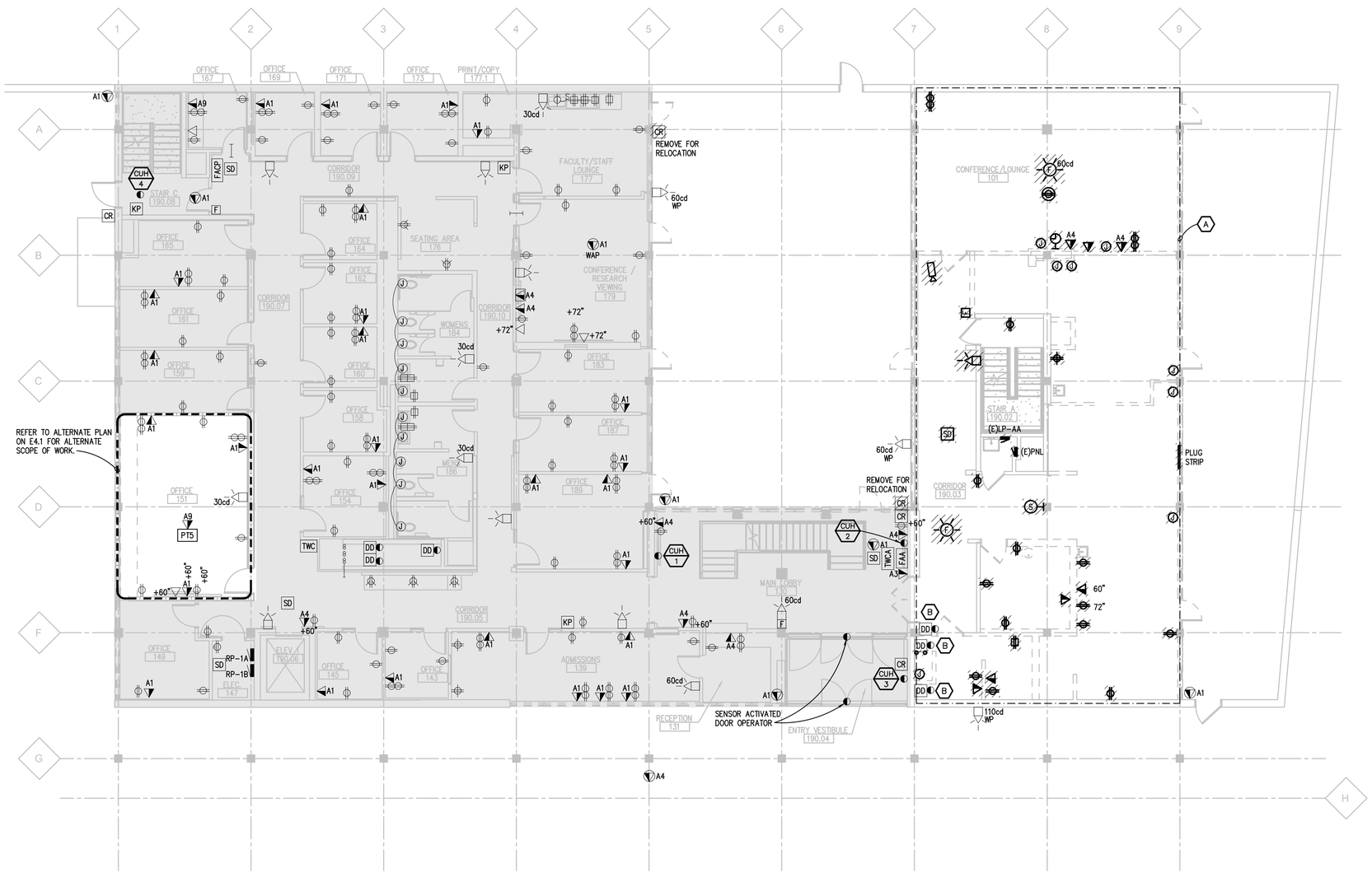

FIRST FLOOR POWER DEMOLITION PLAN

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

ELECTRICAL DEMOLITION GENERAL NOTES:

1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
3. REMOVE EQUIPMENT OR MATERIALS AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE COMPONENTS SHOWN.
4. COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
5. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
6. REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
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9. PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
10. RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".
11. PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
12. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
13. COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.
14. REFERENCE THE HAZARDOUS MATERIAL REPORTS FOR MATERIALS TO BE REMOVED BY OWNER.

DEMOLITION KEY NOTES:

A. REMOVE ELECTRICAL SYSTEM COMPONENTS AND DEVICES COMPLETE, INCLUDING, BUT NOT LIMITED TO: LIGHT FIXTURES, LIGHT SWITCHES, SWITCHBOARDS, POWER DISTRIBUTION PANELBOARDS, PANELBOARDS, RECEPTACLES, TELECOMMUNICATIONS OUTLETS, TELECOMMUNICATIONS WIRING, FIRE ALARM DEVICES, AUDIO/VISUAL SYSTEMS, JUNCTION BOXES, AND CONDUIT AND WIRING, UNLESS OTHERWISE NOTED.

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FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
FIRST FLOOR POWER DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
ED3.1

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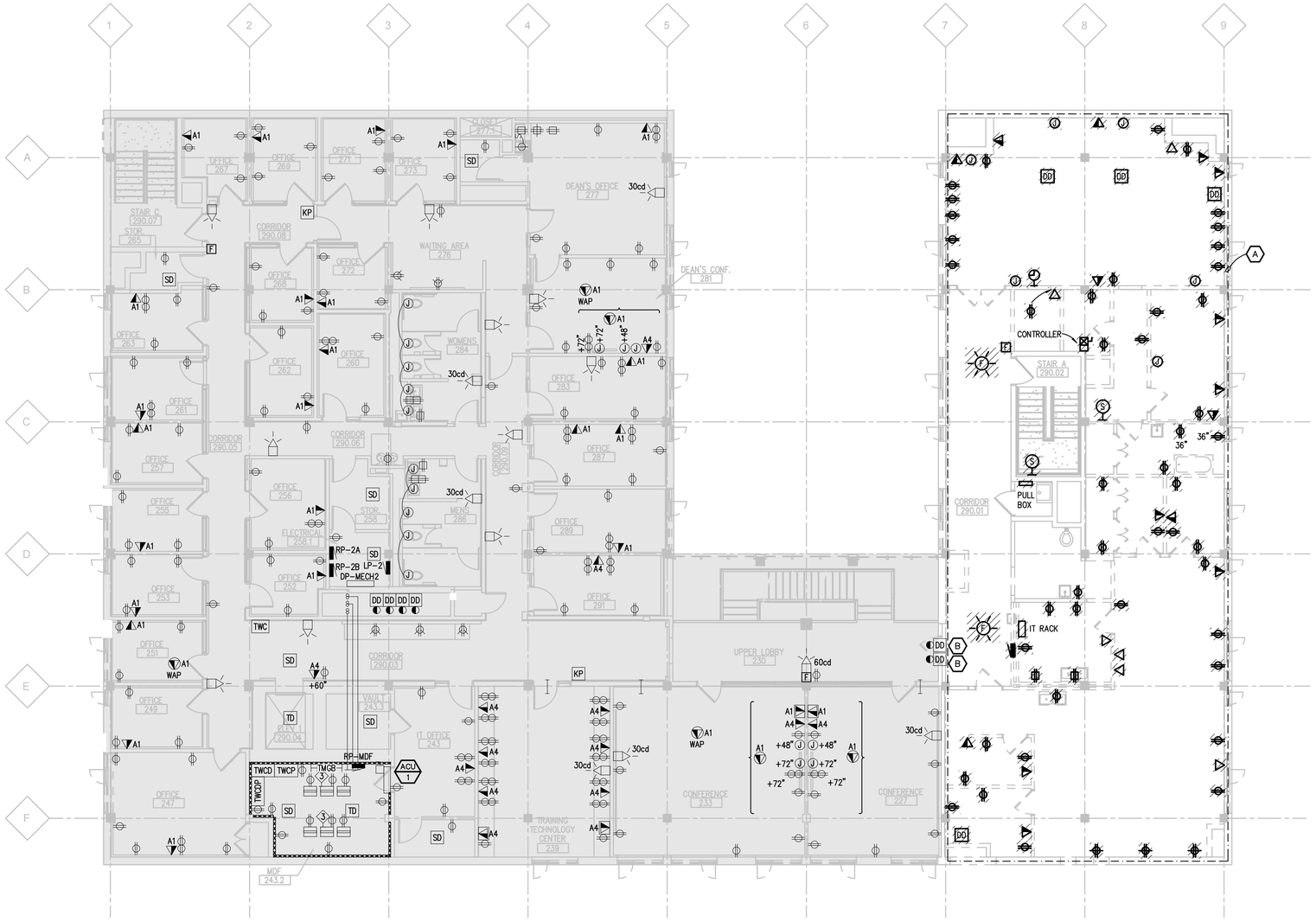

SECOND FLOOR POWER DEMOLITION PLAN

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

ELECTRICAL DEMOLITION GENERAL NOTES:

1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
3. REMOVE EQUIPMENT OR MATERIALS AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE COMPONENTS SHOWN.
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5. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
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14. REFERENCE THE HAZARDOUS MATERIAL REPORTS FOR MATERIALS TO BE REMOVED BY OWNER.

(#) DEMOLITION KEY NOTES:

A. REMOVE ELECTRICAL SYSTEM COMPONENTS AND DEVICES COMPLETE, INCLUDING, BUT NOT LIMITED TO: LIGHT FIXTURES, LIGHT SWITCHES, SWITCHBOARDS, POWER DISTRIBUTION PANELBOARDS, PANELBOARDS, RECEPTACLES, TELECOMMUNICATIONS OUTLETS, TELECOMMUNICATIONS WIRING, FIRE ALARM DEVICES, AUDIO/VISUAL SYSTEMS, JUNCTION BOXES, AND CONDUIT AND WIRING, UNLESS OTHERWISE NOTED.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
SECOND FLOOR POWER DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
ED3.2

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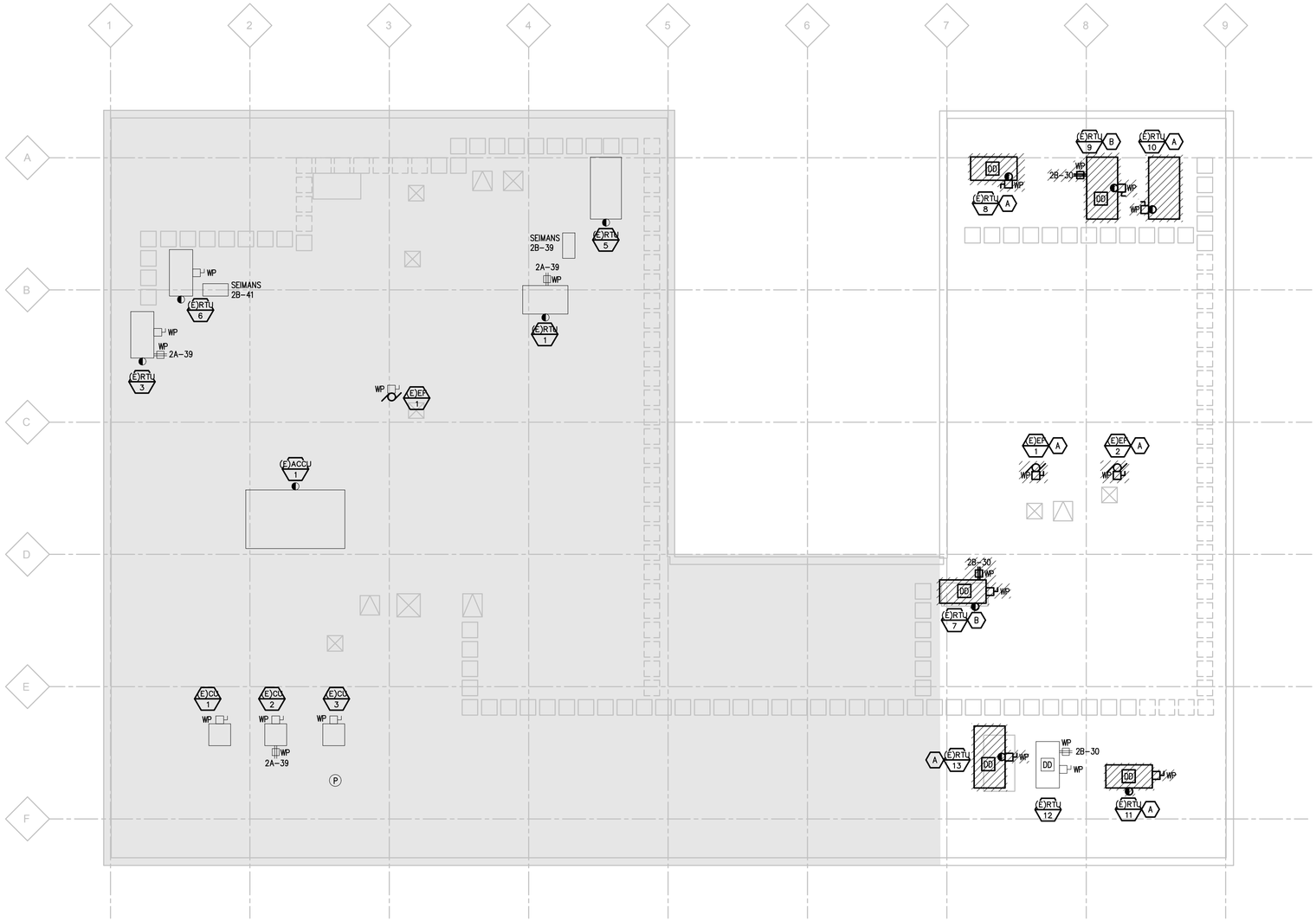

ROOF ELECTRICAL DEMOLITION PLAN

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

ELECTRICAL DEMOLITION GENERAL NOTES:

1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
3. REMOVE EQUIPMENT OR MATERIALS AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE COMPONENTS SHOWN.
4. COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
5. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
6. REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
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9. PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
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11. PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
12. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
13. COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.
14. REFERENCE THE HAZARDOUS MATERIAL REPORTS FOR MATERIALS TO BE REMOVED BY OWNER.

DEMOLITION KEY NOTES:

A. DISCONNECT AND MAKE ELECTRICALLY SAFE MECHANICAL EQUIPMENT FOR REMOVAL BY MECHANICAL TRADES. REMOVE BRANCH CIRCUIT BACK TO SOURCE.

B. DISCONNECT MECHANICAL EQUIPMENT FOR REMOVAL BY MECHANICAL TRADES. REMOVE BRANCH CIRCUIT BACK TO SOURCE. EXISTING RECEPTACLE BRANCH CIRCUIT TO REMAIN FOR RE USE IN NEW WORK.

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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ROOF ELECTRICAL DEMOLITION PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
ED3.3

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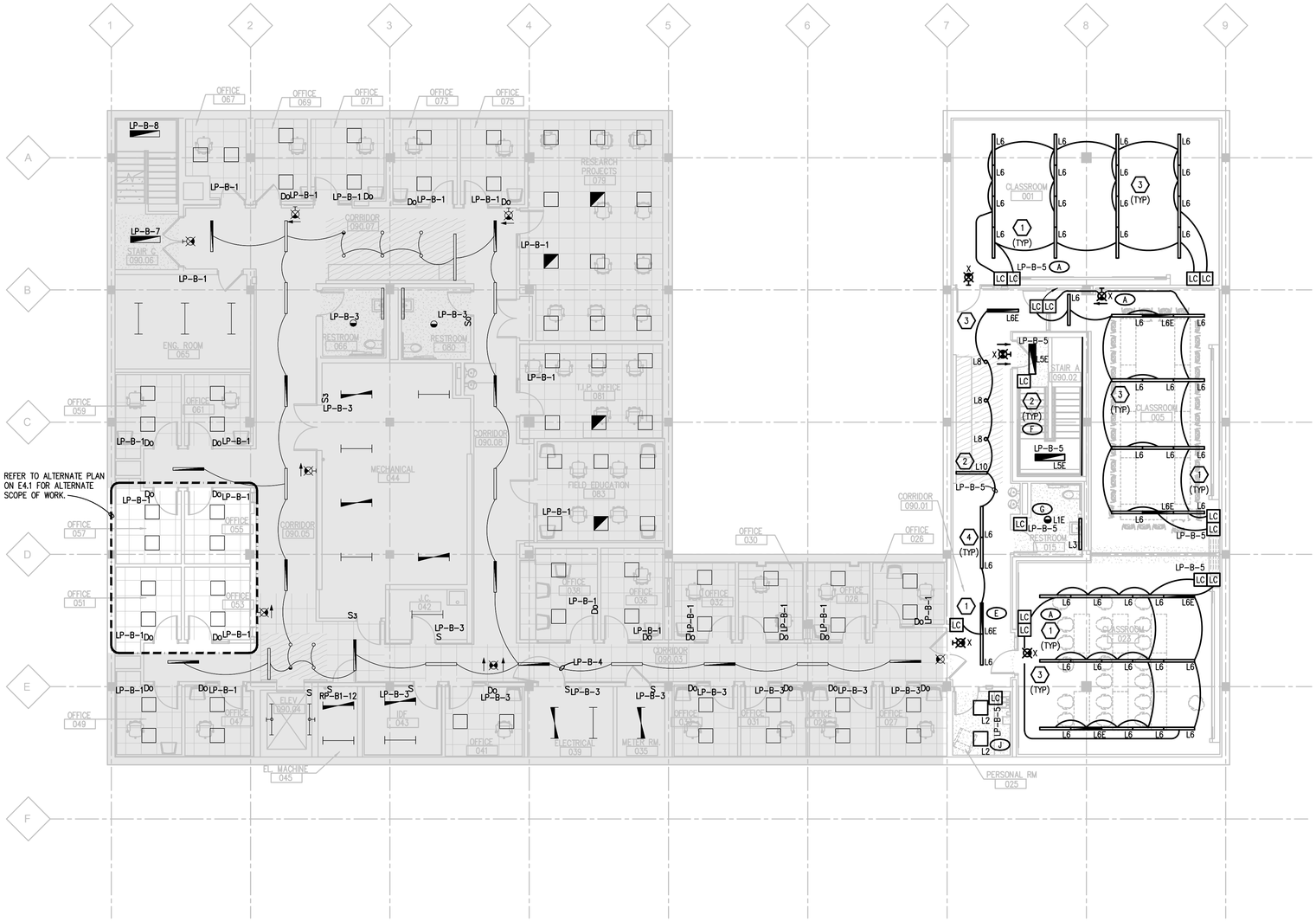

LOWER LEVEL LIGHTING PLAN

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

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
7. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
8. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
9. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
10. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING SIMPLEXGRINNELL FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
12. ALL EXIT SIGNS SHALL BE CIRCUITED TO THE HOT LEG OF ADJACENT LIGHTING BRANCH CIRCUIT.

CONSTRUCTION KEY NOTES:

1. EXTEND EXISTING BRANCH CIRCUIT INDICATED FOR NEW LIGHT FIXTURES AND CONTROLS AS REQUIRED.
2. LIGHT FIXTURE TO EXTEND DOWN ALONG MILLWORK. COORDINATE LENGTHS WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS.
3. MOUNT LIGHT FIXTURE AT 9'-0"AFF.
4. MOUNT LIGHT FIXTURE WITH BOTTOM FLUSH WITH ARCHITECTURAL CEILING. REFER TO ARCHITECTURAL SECTIONS AND ELEVATIONS FOR MOUNTING HEIGHTS.
5. MOUNT LIGHT FIXTURE AT 8'-10"AFF.

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Drawing Title
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Drawn By: WGH Approved By: JAM

Scale: As Indicated

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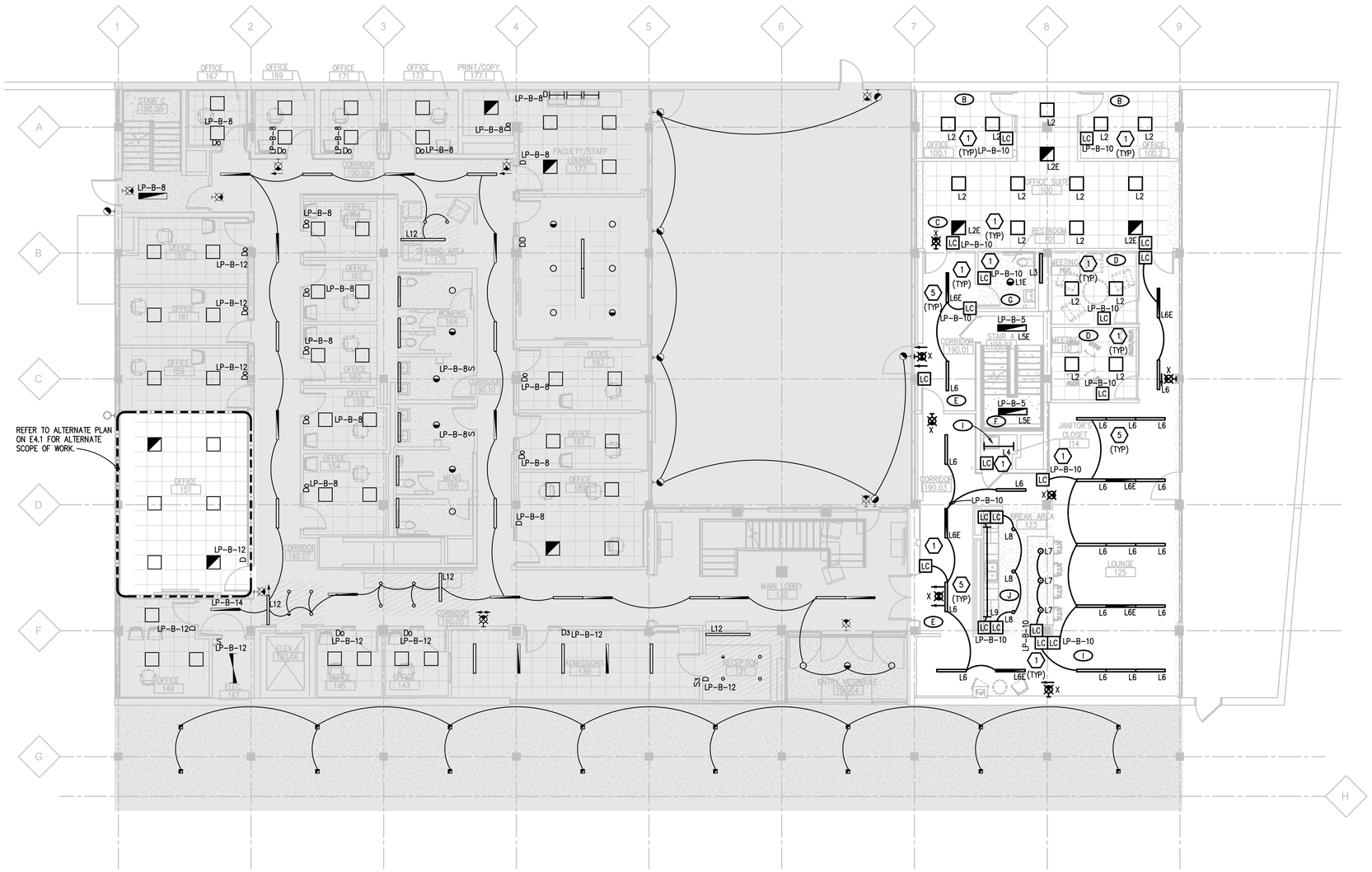

FIRST FLOOR LIGHTING PLAN

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

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
7. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
8. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
9. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
10. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING SIMPLEXGRINNELL FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
12. ALL EXIT SIGNS SHALL BE CIRCUITED TO THE HOT LEG OF ADJACENT LIGHTING BRANCH CIRCUIT.

CONSTRUCTION KEY NOTES:

1. EXTEND EXISTING BRANCH CIRCUIT INDICATED FOR NEW LIGHT FIXTURES AND CONTROLS AS REQUIRED.
2. LIGHT FIXTURE TO EXTEND DOWN ALONG MILLWORK. COORDINATE LENGTHS WITH ARCHITECTURAL DRAWINGS AND ELEVATIONS.
3. MOUNT LIGHT FIXTURE AT 9'-0"AFF.
4. MOUNT LIGHT FIXTURE WITH BOTTOM FLUSH WITH ARCHITECTURAL CEILING. REFER TO ARCHITECTURAL SECTIONS AND ELEVATIONS FOR MOUNTING HEIGHTS.
5. MOUNT LIGHT FIXTURE AT 8'-10"AFF.

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Structural Engineer: Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
FIRST FLOOR LIGHTING PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
E2.1

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SECOND FLOOR LIGHTING PLAN

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

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8. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
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5447 Woodward, Detroit, MI

Drawing Title
SECOND FLOOR LIGHTING PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
E2.2

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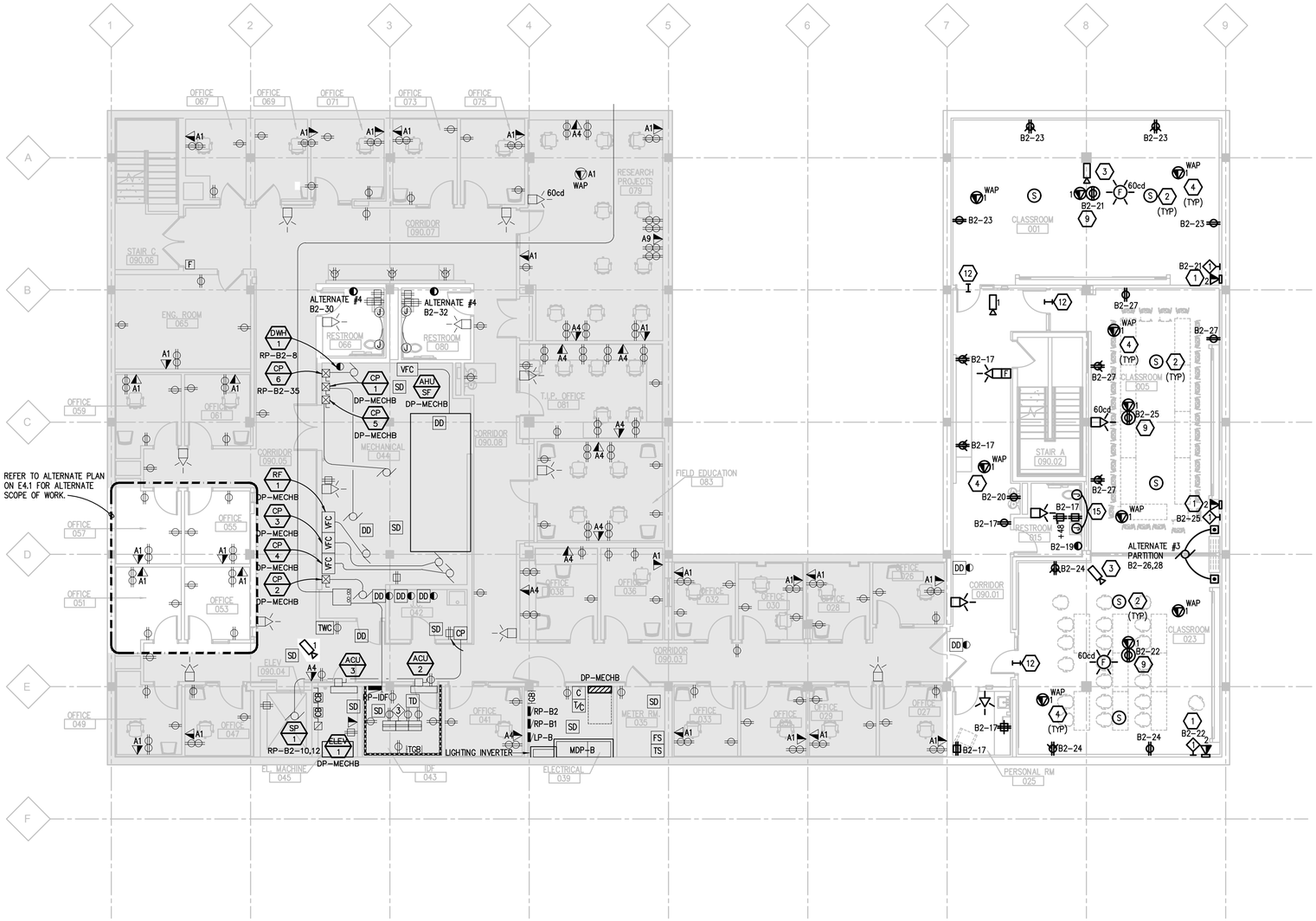

LOWER LEVEL POWER AND AUXILIARY SYSTEMS PLAN

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

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7. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
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9. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
10. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING SIMPLEXGRINNELL FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
12. ALL EXIT SIGNS SHALL BE CIRCUITED TO THE HOT LEG OF ADJACENT LIGHTING BRANCH CIRCUIT.

CONSTRUCTION KEY NOTES:

1. PROVIDE FSR BOX WB-X2-GNG WITH WB-X2-CVR-WHT COVER. PROVIDE (2)DATA DROPS WITHIN THE FSR BOX. PROVIDE (2)1-1/4"C UP TO CEILING SPACE. PROVIDE PULL STRINGS AND END BUSSINGS.
2. PROVIDE 4"X4" SQUARE BACK BOX AND SUPPORT UP TO EXISTING STRUCTURE ABOVE FOR SPEAKER AS REQUIRED. SPEAKER PROVIDED BY AV VENDOR. COORDINATE BOX HEIGHT WITH AV VENDOR. COORDINATE BOX LOCATION WITH LIGHTING AND OTHER SYSTEMS.
3. PROVIDE 4"X4" SQUARE BACK BOX AND SUPPORT UP TO EXISTING STRUCTURE ABOVE FOR DISTANCE LEARNING CLASSROOM CAMERA AS REQUIRED. DISTANCE LEARNING CLASSROOM CAMERA PROVIDED BY AV VENDOR. COORDINATE BOX HEIGHT WITH AV VENDOR. COORDINATE BOX LOCATION WITH LIGHTING AND OTHER SYSTEMS.
4. PROVIDE 4"X4" SQUARE BACK BOX AND SUPPORT UP TO EXISTING STRUCTURE ABOVE FOR WIRELESS ACCESS POINT AS REQUIRED. WIRELESS ACCESS POINT FURNISHED BY WSU C&IT AND CONTRACTOR TO INSTALL. COORDINATE FINAL LOCATION OF WIRELESS ACCESS POINT WITH WSU C&IT PRIOR TO INSTALLATION.
5. PROVIDE A (1)2 GANG BACK BOX IN WALL BEHIND DIGITAL SIGNAGE MONITOR. COORDINATE FINAL LOCATION OF MONITOR WITH ARCHITECTURAL TRADES AND OWNER PRIOR TO ROUGH IN. PROVIDE (1)1-1/4"C UP TO CEILING SPACE WITH PULL STRING AND END BUSSING.
6. PROVIDE (1)1-1/4"C FROM LOWER CABINET UP TO CEILING SPACE. PROVIDE PULL STRING AND END BUSSING.
7. PROVIDE (1)3 GANG BACK BOX 36" ABOVE COUNTER TOP FOR MEDIA INPUT DEVICES. MEDIA INPUT DEVICES PROVIDED BY AV VENDOR. PROVIDE (1)1-1/4"C TO LOWER CABINET AND (1)1-1/4"C UP TO CEILING SPACE. PROVIDE PULL STRINGS AND END BUSSINGS.
8. REFER TO MEETING ROOM DETAIL FOR DEVICE, BACK BOXES AND CONDUIT REQUIREMENTS AND LOCATIONS OF MONITOR WALL.
9. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH OWNER.
10. BASE BID: PROVIDE BACK BOX, CONDUIT, PULL STRING AND END BUSHINGS FOR FUTURE CARD READER, CAMERA AND WIRELESS ACCESS POINT. COORDINATE FINAL MOUNTING HEIGHT WITH WSU C&IT.
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13. EXTEND EXISTING RECEPTACLE BRANCH CIRCUIT AS REQUIRED.
14. ROUTE POWER DOWN COLUMN AND INTO NEW ISLAND. COORDINATE ROUTING IN COLUMN AND IN THE NEW ISLAND WITH ARCHITECTURAL DRAWINGS AND TRADES. COORDINATE FINAL LOCATION OF RECEPTACLES IN THE NEW ISLAND WITH ARCHITECTURAL DRAWINGS AND TRADES.
15. PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL FOR URINAL/TOILET SENSORS. PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL UNDER SINK FOR LOW VOLTAGE WIRING. PROVIDE 3/4" CONDUIT BETWEEN JUNCTION BOXES AND TO JUNCTION BOX UNDER SINK. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL TRADES.
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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
LOWER LEVEL POWER AND AUXILIARY SYSTEMS PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
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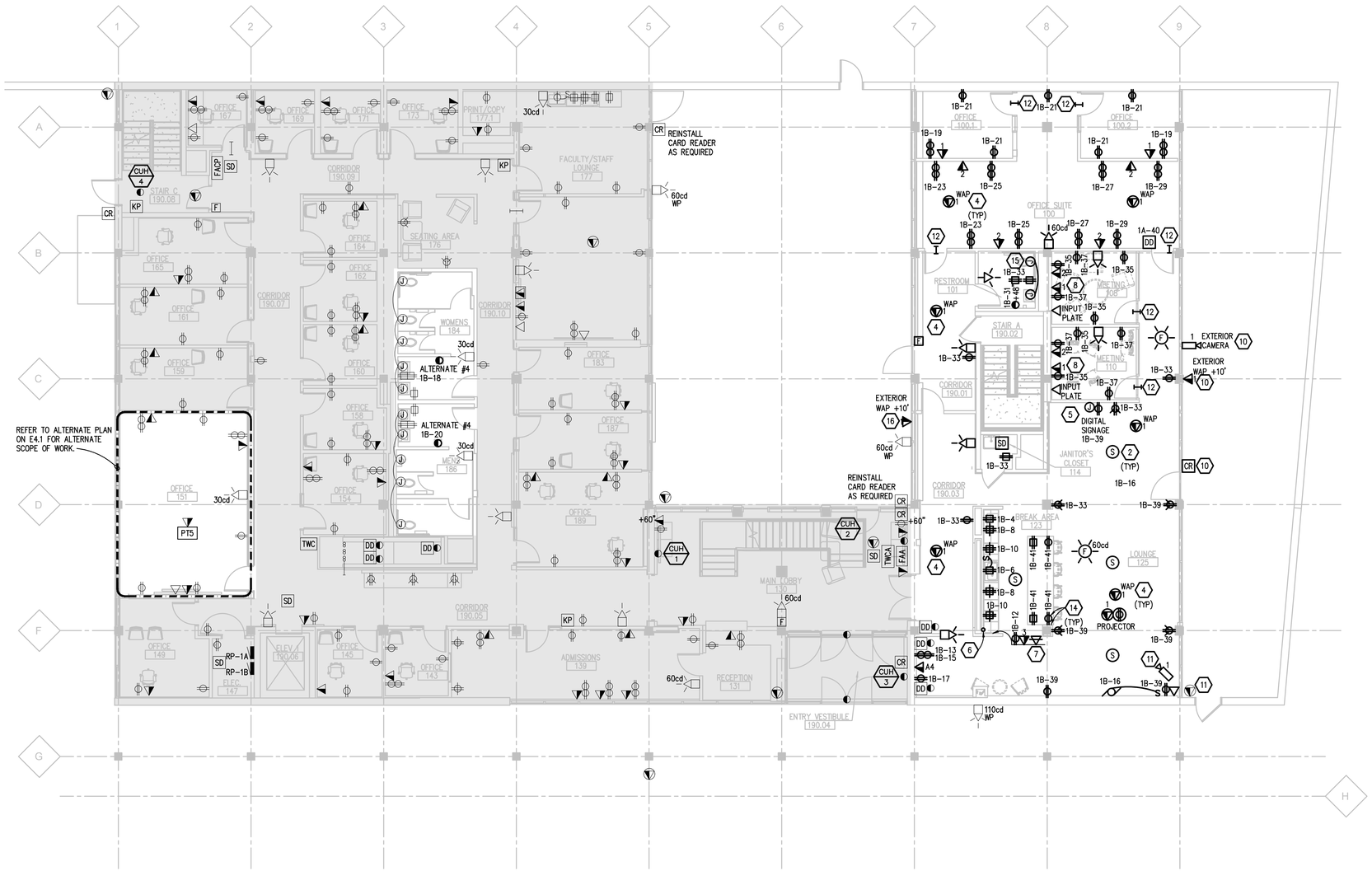

FIRST FLOOR POWER AND AUXILIARY SYSTEMS PLAN

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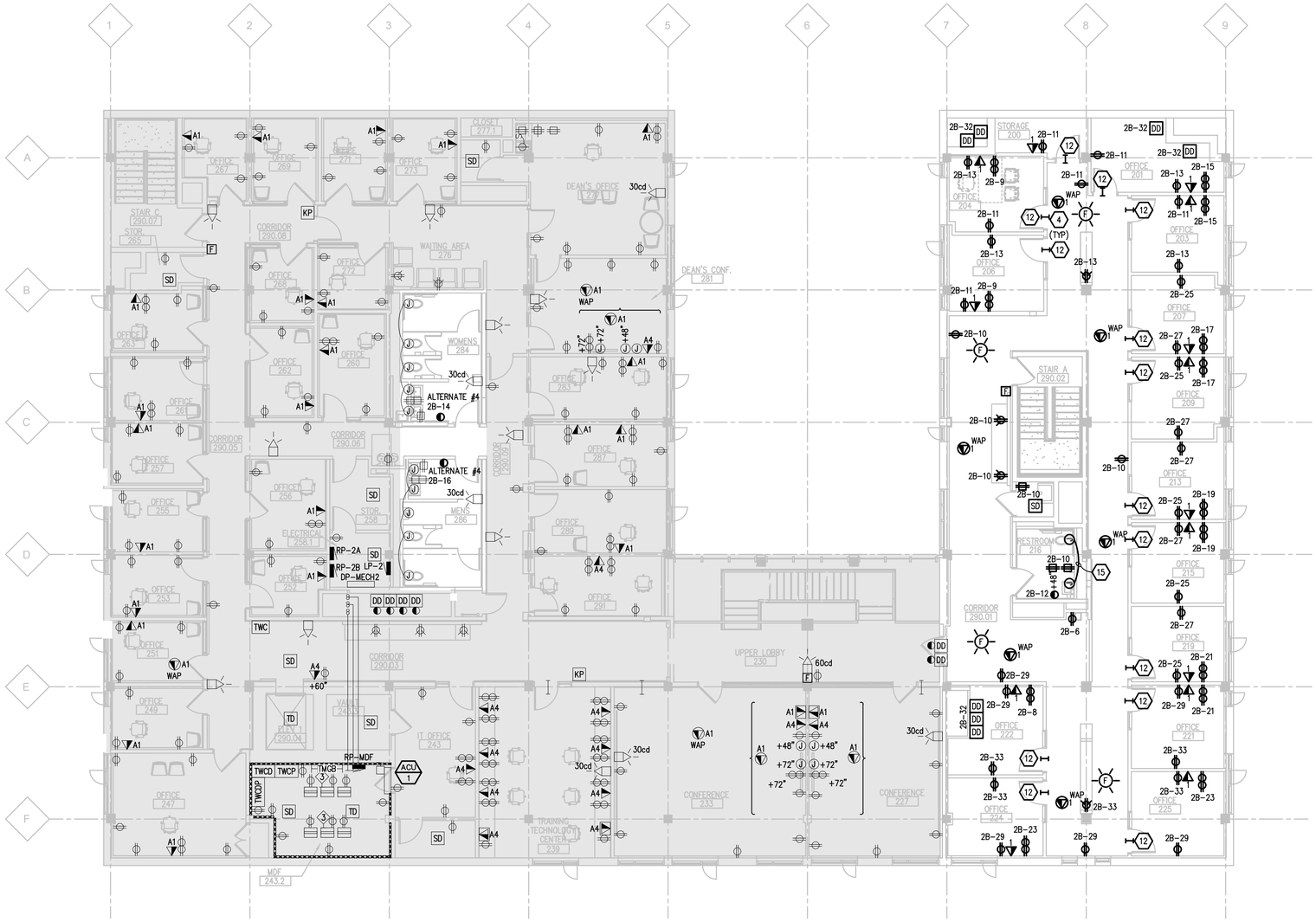

SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN

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

ELECTRICAL GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
2. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
3. COORDINATE AND PROVIDE ACCESS DOORS WITHIN INACCESSIBLE CEILING, SHAFT, AND CHASE AREAS FOR ALL COMPONENTS WHICH REQUIRE SERVICE ACCESS. REFER TO ARCHITECTURAL DRAWINGS FOR CEILING TYPES.
4. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
5. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH MOTOR CIRCUIT SIZING SCHEDULES SHOWN ON "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS OTHERWISE NOTED.
6. COORDINATE THE MOUNTING HEIGHTS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND THE TRADES INSTALLING THE WORK.
7. COORDINATE EXACT LOCATIONS OF ALL FLOOR SERVICE FITTINGS AND POKE-THROUGH ASSEMBLIES WITH FINAL FURNITURE LAYOUT DRAWINGS.
8. REFER TO MECHANICAL SCHEDULE SHEETS FOR ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT. PROVIDE ALL CONNECTIONS, STARTERS, DISCONNECTS, ETC. AS REQUIRED BY SCHEDULES AND WHERE NOTED ELSEWHERE. VERIFY REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH SHOP DRAWINGS SUBMITTALS. NOTIFY ENGINEER OF ANY CONFLICTS BETWEEN EQUIPMENT SUBMITTALS AND ELECTRICAL DRAWINGS. WHERE CIRCUIT SIZES ARE SHOWN ON THE ELECTRICAL DRAWINGS THAT DIFFER FROM WHAT IS INDICATED ON THE MECHANICAL SCHEDULES, PROVIDE THE CIRCUIT OF HIGHER AMPACITY.
9. REFER TO TEMPERATURE CONTROLS SHEETS FOR REQUIRED MOTOR CONTROLLERS. PROVIDE ALL ACCESSORIES INDICATED.
10. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING SIMPLEXGRINNELL FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
12. ALL EXIT SIGNS SHALL BE CIRCUITED TO THE HOT LEG OF ADJACENT LIGHTING BRANCH CIRCUIT.

CONSTRUCTION KEY NOTES:

1. PROVIDE FSR BOX WB-X2-GNG WITH WB-X2-CVR-WHT COVER. PROVIDE (2)DATA DROPS WITHIN THE FSR BOX. PROVIDE (2)1-1/4"C UP TO CEILING SPACE. PROVIDE PULL STRINGS AND END BUSSINGS.
2. PROVIDE 4"X4" SQUARE BACK BOX AND SUPPORT UP TO EXISTING STRUCTURE ABOVE FOR SPEAKER AS REQUIRED. SPEAKER PROVIDED BY AV VENDOR. COORDINATE BOX HEIGHT WITH AV VENDOR. COORDINATE BOX LOCATION WITH LIGHTING AND OTHER SYSTEMS.
3. PROVIDE 4"X4" SQUARE BACK BOX AND SUPPORT UP TO EXISTING STRUCTURE ABOVE FOR DISTANCE LEARNING CLASSROOM CAMERA AS REQUIRED. DISTANCE LEARNING CLASSROOM CAMERA PROVIDED BY AV VENDOR. COORDINATE BOX HEIGHT WITH AV VENDOR. COORDINATE BOX LOCATION WITH LIGHTING AND OTHER SYSTEMS.
4. PROVIDE 4"X4" SQUARE BACK BOX AND SUPPORT UP TO EXISTING STRUCTURE ABOVE FOR WIRELESS ACCESS POINT AS REQUIRED. WIRELESS ACCESS POINT FURNISHED BY WSU C&IT AND CONTRACTOR TO INSTALL. COORDINATE FINAL LOCATION OF WIRELESS ACCESS POINT WITH WSU C&IT PRIOR TO INSTALLATION.
5. PROVIDE A (1)2 GANG BACK BOX IN WALL BEHIND DIGITAL SIGNAGE MONITOR. COORDINATE FINAL LOCATION OF MONITOR WITH ARCHITECTURAL TRADES AND OWNER PRIOR TO ROUGH IN. PROVIDE (1)1-1/4"C UP TO CEILING SPACE WITH PULL STRING AND END BUSSING.
6. PROVIDE (1)1-1/4"C FROM LOWER CABINET UP TO CEILING SPACE. PROVIDE PULL STRING AND END BUSSING.
7. PROVIDE (1)3 GANG BACK BOX 36" ABOVE COUNTER TOP FOR MEDIA INPUT DEVICES. MEDIA INPUT DEVICES PROVIDED BY AV VENDOR. PROVIDE (1)1-1/4"C TO LOWER CABINET AND (1)1-1/4"C UP TO CEILING SPACE. PROVIDE PULL STRINGS AND END BUSSINGS.
8. REFER TO MEETING ROOM DETAIL FOR DEVICE, BACK BOXES AND CONDUIT REQUIREMENTS AND LOCATIONS OF MONITOR WALL.
9. COORDINATE FINAL MOUNTING HEIGHT AND LOCATION WITH OWNER.
10. BASE BID: PROVIDE BACK BOX, CONDUIT, PULL STRING AND END BUSHINGS FOR FUTURE CARD READER, CAMERA AND WIRELESS ACCESS POINT. COORDINATE FINAL MOUNTING HEIGHT WITH WSU C&IT.
    ALTERNATE #1: INSTALL CARD READER, CAMERA OR WIRELESS ACCESS POINT.
11. RELOCATE EXTERIOR CAMERA IF ALTERNATE #1 IS ACCEPTED.
12. (1)2"C ABOVE DOOR FOR LOW VOLTAGE CABLING.
13. EXTEND EXISTING RECEPTACLE BRANCH CIRCUIT AS REQUIRED.
14. ROUTE POWER DOWN COLUMN AND INTO NEW ISLAND. COORDINATE ROUTING IN COLUMN AND IN THE NEW ISLAND WITH ARCHITECTURAL DRAWINGS AND TRADES. COORDINATE FINAL LOCATION OF RECEPTACLES IN THE NEW ISLAND WITH ARCHITECTURAL DRAWINGS AND TRADES.
15. PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL FOR URINAL/TOILET SENSORS. PROVIDE TWO GANG JUNCTION BOX FLUSH IN WALL UNDER SINK FOR LOW VOLTAGE WIRING. PROVIDE 3/4" CONDUIT BETWEEN JUNCTION BOXES AND TO JUNCTION BOX UNDER SINK. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH MECHANICAL TRADES.
16. PROVIDE BACK BOX, CONDUIT, PULL STRING AND END BUSHINGS FOR WIRELESS ACCESS POINT. COORDINATE FINAL MOUNTING HEIGHT WITH WSU C&IT.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
SECOND FLOOR POWER AND AUXILIARY SYSTEMS PLAN

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
E3.2

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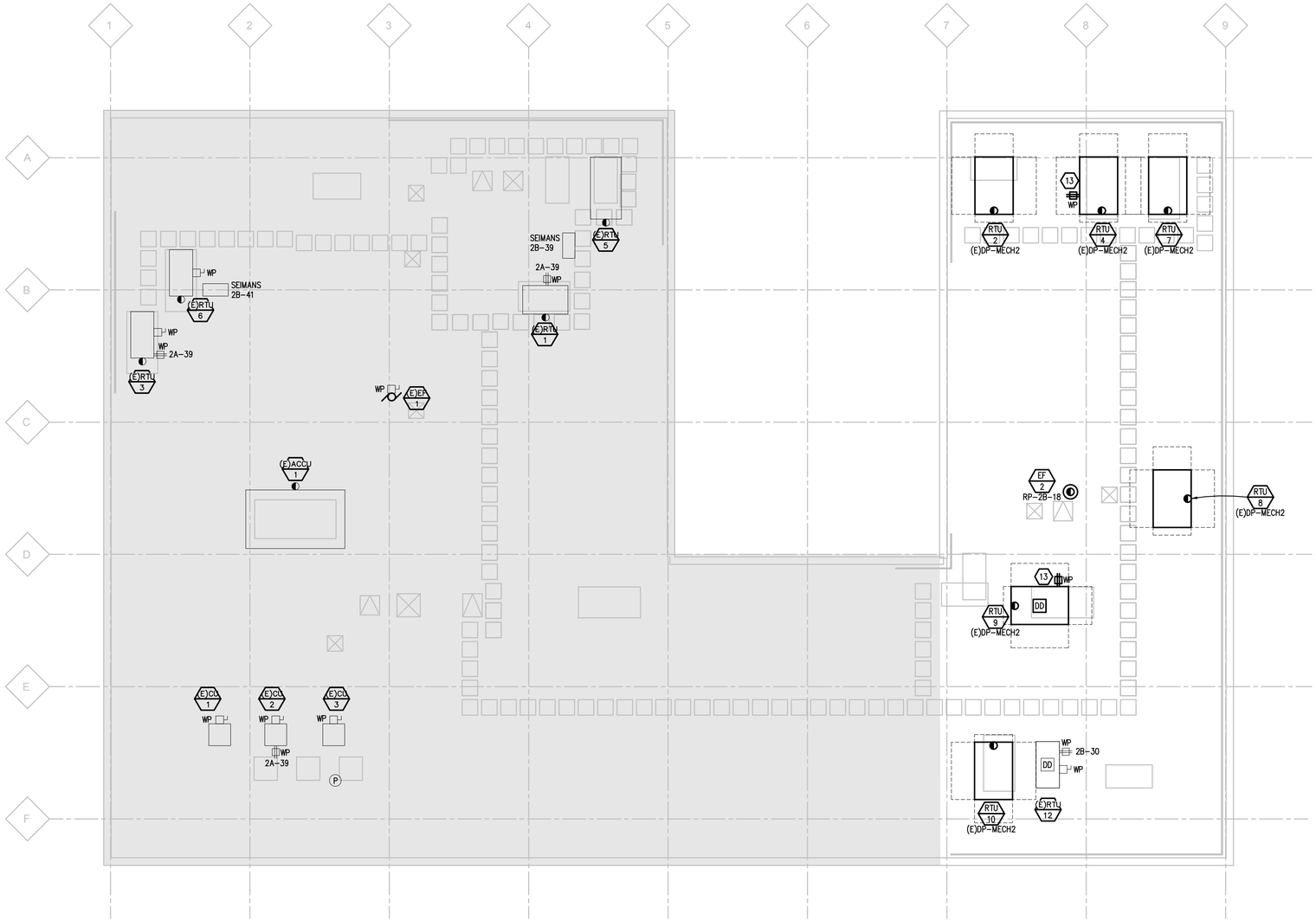

ROOF POWER AND AUXILIARY SYSTEMS PLAN

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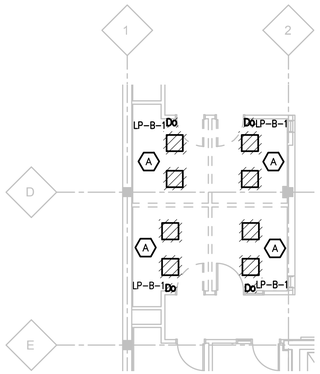
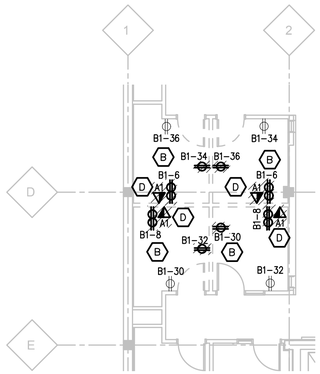


LOWER LEVEL LIGHTING DEMOLITION PLAN-ALTERNATE

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



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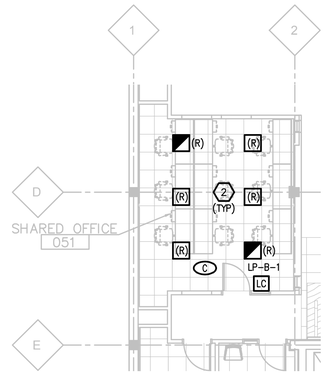
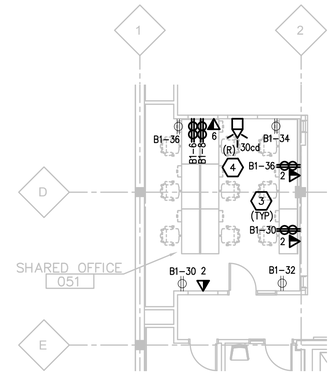


LOWER LEVEL LIGHTING NEW WORK PLAN-ALTERNATE

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



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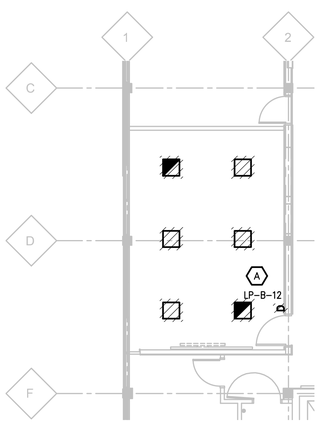

FIRST LEVEL LIGHTING DEMOLITION PLAN-ALTERNATE

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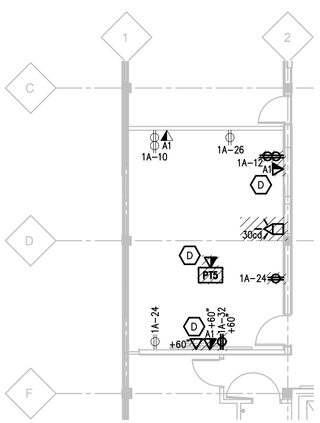

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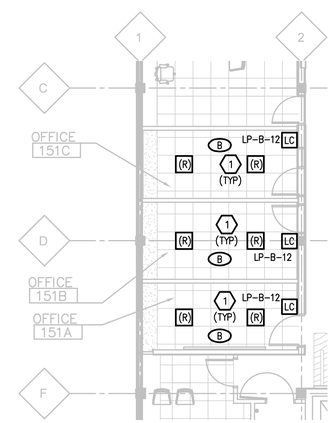

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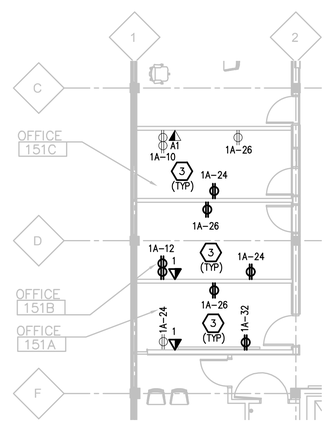

FIRST LEVEL POWER NEW WORK PLAN-ALTERNATE

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

ELECTRICAL DEMOLITION GENERAL NOTES:

1. VISIT THE SITE PRIOR TO SUBMISSION OF BID TO EXAMINE THE EXISTING CONDITIONS AND THE EXTENT OF DEMOLITION WORK.
2. EXAMINE THE DRAWINGS OF OTHER TRADES AND BE FAMILIAR WITH THE DEMOLITION REQUIRED BY OTHER TRADES. PERFORM ALL INCIDENTAL ELECTRICAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE DEMOLITION WORK OF OTHER TRADES, WHETHER OR NOT SPECIFICALLY INDICATED.
3. REMOVE EQUIPMENT OR MATERIALS AS INDICATED ON PLAN WITH CROSS HATCHING. DEMOLITION SHALL INCLUDE, BUT NOT BE LIMITED TO, THOSE COMPONENTS SHOWN.
4. COORDINATE WITH NEW WORK PLANS, ONE LINE DIAGRAMS AND RISER DIAGRAMS FOR EXTENT OF DEMOLITION WORK.
5. PROVIDE PROPER SUPPORT FOR EXISTING TO REMAIN CONDUITS AND BOXES WHERE EXISTING SUPPORT IS TO BE REMOVED. RE-ROUTE BRANCH CIRCUIT CONDUITS AND RELOCATE JUNCTION BOXES AS REQUIRED TO FACILITATE INSTALLATION OF NEW EQUIPMENT AND SYSTEMS IN CEILING SPACES.
6. REMOVE ALL CONDUIT AND WIRE BACK TO THE SOURCE OR NEAREST UPSTREAM DEVICE REMAINING IN SERVICE.
7. MAINTAIN ELECTRICAL SERVICE TO ALL LIGHTING FIXTURES, DEVICES AND EQUIPMENT THAT ARE TO REMAIN. EXTEND CONDUIT AND WIRE AS REQUIRED WHERE DEMOLITION WORK AFFECTS ELECTRICAL SERVICE TO DOWNSTREAM LOADS THAT ARE TO REMAIN.
8. DISPOSE OF ALL MATERIALS OFF SITE AND INCLUDE ALL COSTS FOR DISPOSAL IN BID. ALL MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, INCLUDING TCLP TESTING, PROPER DISPOSAL AND/OR RECYCLING OF FLUORESCENT LAMPS.
9. PROVIDE BLANK COVER PLATES WHERE SWITCHES AND DEVICES ARE REMOVED BUT EXISTING WALLS REMAIN INTACT.
10. RING OUT AND TAG ALL CIRCUITS AFFECTED BY THIS ALTERATION AT BOTH ENDS. MARK ALL UNUSED CIRCUIT BREAKERS "SPARE".
11. PROVIDE UPDATED TYPED-IN DIRECTORIES FOR ALL PANELS AFFECTED BY THIS ALTERATION.
12. VERIFY ALL UNDERGROUND AND IN SLAB UTILITY LOCATIONS PRIOR TO SAW-CUTTING OR PENETRATING ANY FLOOR SLAB.
13. COORDINATE ANY SHUT DOWN OF EXISTING SERVICES AND EQUIPMENT THAT ARE REMAINING IN USE WITH THE OWNER'S REPRESENTATIVE. WHERE EXISTING BUILDING SERVICE IS REQUIRED TO BE SHUT DOWN, INCLUDE ALL ASSOCIATED OVERTIME COSTS TO PERFORM THIS WORK DURING WEEKENDS AND EVENINGS INCLUDE ALL COSTS FOR PROVIDING TEMPORARY POWER WHERE SHUT DOWNS MUST OCCUR FOR PERIODS LONGER THAN THESE HOURS. COORDINATE ELECTRICAL SHUT DOWNS WITH THE OWNER 72 HOURS PRIOR TO SHUT DOWN.
14. REFERENCE THE HAZARDOUS MATERIAL REPORTS FOR MATERIALS TO BE REMOVED BY OWNER.

DEMOLITION KEY NOTES:

A. REMOVE, STORE AND PROTECT LIGHT FIXTURES FOR REUSE IN NEW WORK. EXISTING CIRCUITING TO REMAIN FOR REUSE.

B. REMOVE RECEPTACLE AND BACK BOX COMPLETE. EXISTING BRANCH CIRCUIT TO REMAIN.

C. REMOVE, STORE AND PROTECT FIRE ALARM DEVICE FOR REUSE IN NEW WORK.

D. REMOVE DATA CABLING BACK TO IT CLOSET AND DISCONNECT FROM PATCH PANEL.

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10. ALL FIRE ALARM DEVICES SHALL BE COMPATIBLE WITH EXISTING SIMPLEXGRINNELL FIRE ALARM SYSTEM. PROVIDE NECESSARY COMPONENTS, MODULES, ETC. AS REQUIRED FOR A FULLY FUNCTIONAL SYSTEM. RE-TEST AND CERTIFY EXISTING FIRE ALARM SYSTEM AT COMPLETION OF PROJECT.
11. REFER TO LIGHTING CONTROL SCHEDULE FOR ROOM CONTROL AND EMERGENCY LIGHTING CIRCUIT CONTROL REQUIREMENTS. DESIGNATION FOR ROOM IS INDICATED AS A LETTERED OVAL SYMBOL.
12. ALL EXIT SIGNS SHALL BE CIRCUITED TO THE HOT LEG OF ADJACENT LIGHTING BRANCH CIRCUIT.

CONSTRUCTION KEY NOTES:

1. INSTALL EXISTING LIGHT FIXTURE FROM LOWER LEVEL IN NEW OFFICE. EXTEND EXISTING BRANCH CIRCUIT AS REQUIRED.
2. INSTALL EXISTING LIGHT FIXTURE FROM FIRST FLOOR IN NEW OFFICE. EXTEND EXISTING BRANCH CIRCUIT AS REQUIRED.
3. EXTEND EXISTING BRANCH CIRCUIT AS REQUIRED.
4. INSTALL EXISTING FIRE ALARM DEVICE FROM LOWER LEVEL. EXTEND EXISTING FIRE ALARM WIRING AS REQUIRED.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ELECTRICAL DEMOLITION AND NEW WORK PLANS-ALTERNATE

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
E4.1

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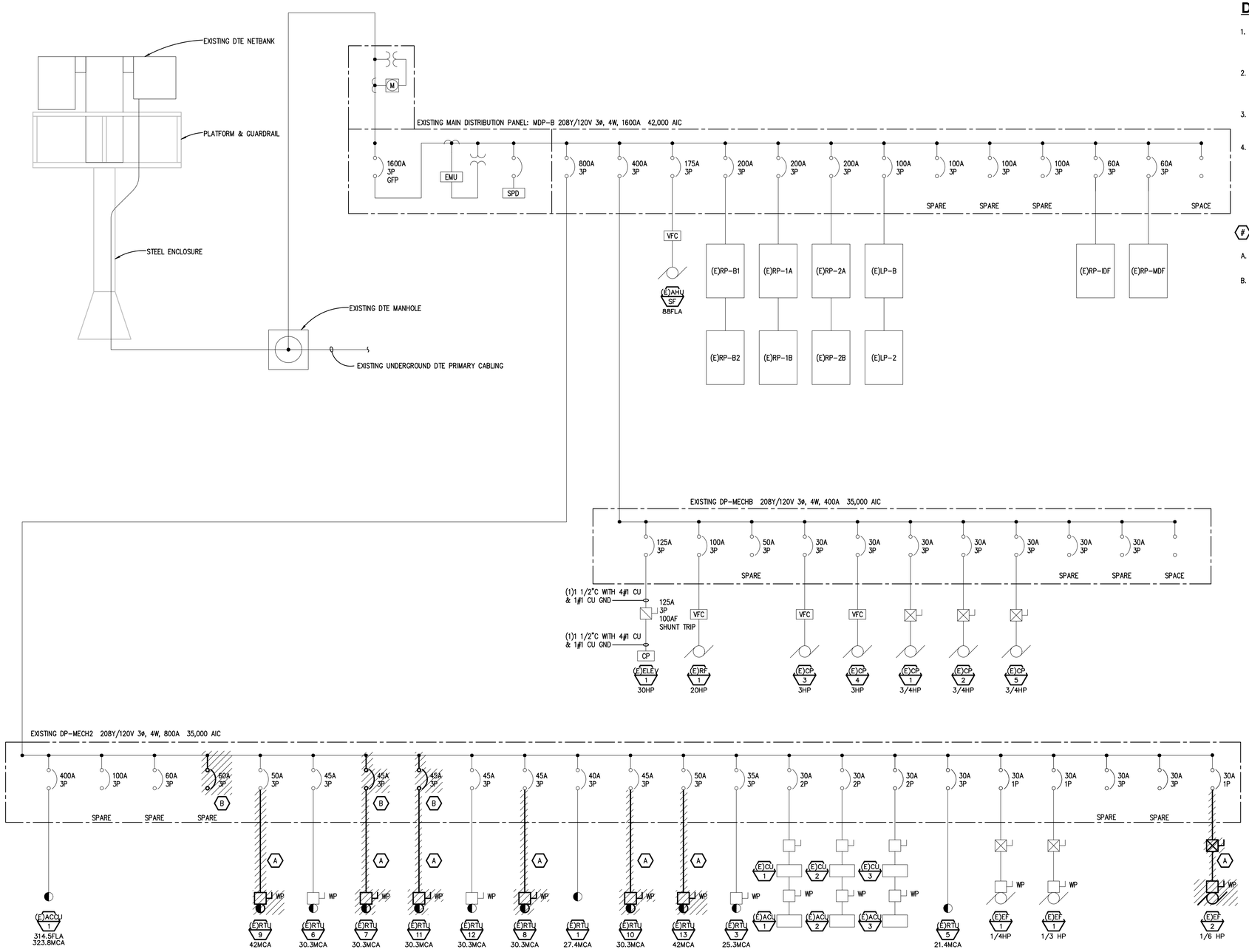

ONE LINE DIAGRAM - DEMOLITION

NO SCALE

DIAGRAM GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
2. FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE-GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
3. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH THE MOTOR CIRCUIT SIZING SCHEDULES ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
4. BRANCH CIRCUIT CONDUCTORS, FEEDERS, AND BRANCH CIRCUIT OVERCURRENT PROTECTION ARE SIZED AT 125% OF THE TOTAL CONTINUOUS AND NON CONTINUOUS LOAD FOR LIGHTING AND MOTOR LOADS THAT RUN CONTINUOUSLY FOR THREE HOURS OR MORE (NEC 210.19 A, 210.20 A, AND 215.2 A). DEMAND AND CONNECTED LOADS ARE CALCULATED PER NEC 220.

(#) DEMOLITION KEY NOTES:

A. DISCONNECT MECHANICAL EQUIPMENT FOR REMOVAL BY MECHANICAL TRADES. REMOVE BRANCH CIRCUIT BACK TO SOURCE.

B. REMOVE CIRCUIT BREAKER.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ONE LINE DIAGRAM - DEMOLITION

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
E5.1

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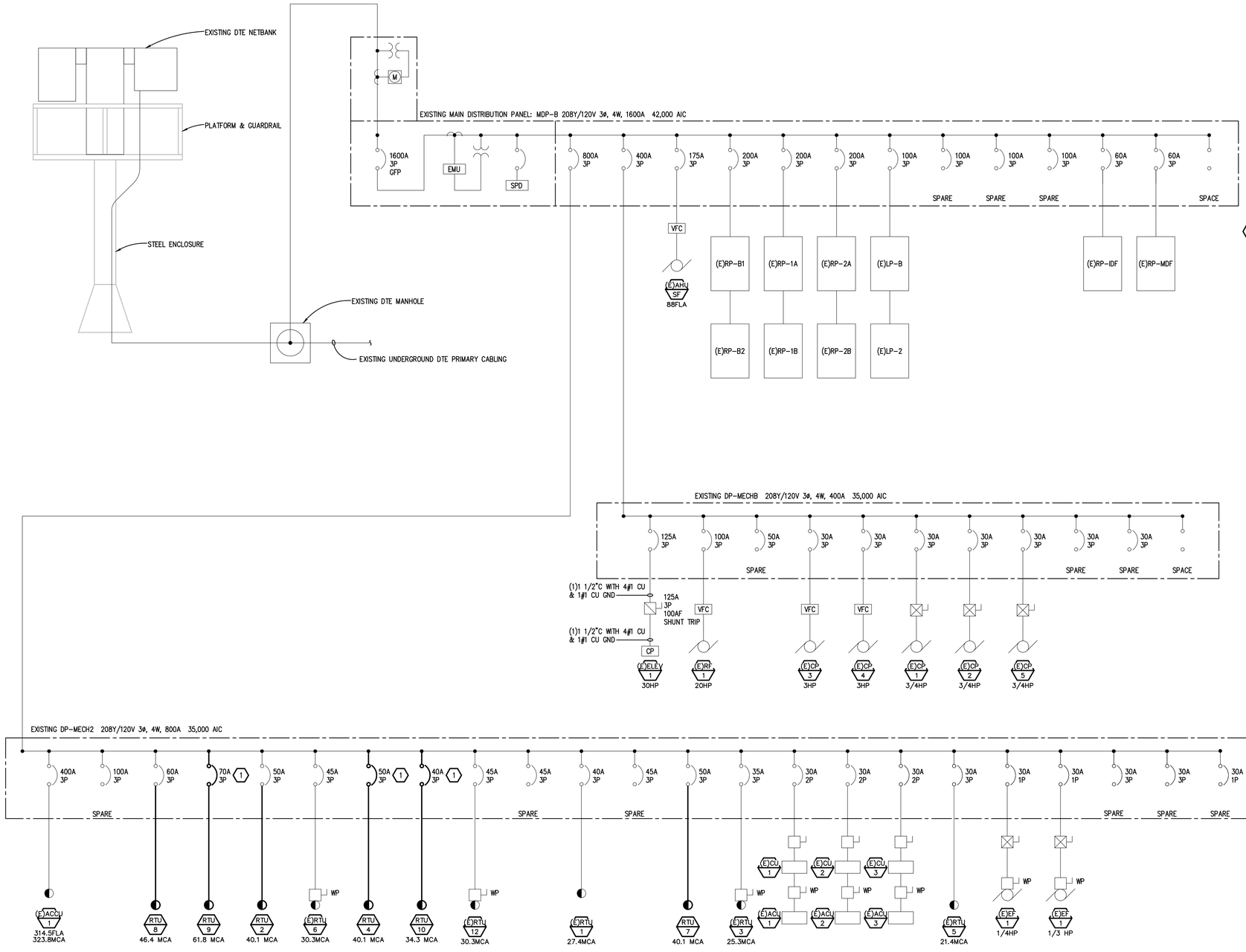

ONE LINE DIAGRAM - NEW WORK

NO SCALE

DIAGRAM GENERAL NOTES:

1. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS, AND OFFSETS.
2. FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE SIZED IN ACCORDANCE WITH THE "FEEDER AND BRANCH CIRCUIT SIZING SCHEDULE–GENERAL PURPOSE" ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
3. MOTOR CIRCUIT PROTECTION SHALL BE SIZED IN ACCORDANCE WITH THE MOTOR CIRCUIT SIZING SCHEDULES ON THE "ELECTRICAL STANDARD SCHEDULES DRAWING" UNLESS SPECIFICALLY NOTED OTHERWISE.
4. BRANCH CIRCUIT CONDUCTORS, FEEDERS, AND BRANCH CIRCUIT OVERCURRENT PROTECTION ARE SIZED AT 125% OF THE TOTAL CONTINUOUS AND NON CONTINUOUS LOAD FOR LIGHTING AND MOTOR LOADS THAT RUN CONTINUOUSLY FOR THREE HOURS OR MORE (NEC 210.19 A, 210.20 A, AND 215.2 A). DEMAND AND CONNECTED LOADS ARE CALCULATED PER NEC 220.

CONSTRUCTION KEY NOTES:

1. PROVIDE NEW CIRCUIT BREAKER AS INDICATED. EXISTING PANEL IS SQUARE D.

FEEDER DEMAND LOAD CALCULATION

(E)MDP-B(208Y/120 3ø 4W)

CONTINUOUS LOADS

(E)MDP-B (208Y/120V)	
(E)AHU-SF	31.7 kVA
SUM	31.7 kVA
x125%	39.6 kVA
(E)DP-MECHB(208Y/120V)	
(E)RF-1	21.4 kVA
(E)CP-3	3.8 kVA
(E)CP-4	3.8 kVA
(E)CP-1	1.3 kVA
(E)CP-2	1.3 kVA
(E)CP-5	1.3 kVA
(E)ELEV-1	31.7 kVA
LARGEST MOTOR x 125% ((E)ELEV-1)	39.6 kVA
SUM OF THE REST	83.0 kVA
TOTAL SUM	72.7 kVA
(E)DP-MECH2(208Y/120V)	
RTU-8	16.0 kVA
RTU-9	20.0 kVA
RTU-2	13.0 kVA
(E)RTU-6	9.8 kVA
RTU-4	13.0 kVA
RTU-10	11.1 kVA
(E)RTU-12	9.8 kVA
(E)RTU-1	8.1 kVA
RTU-7	13.0 kVA
(E)RTU-3	8.2 kVA
(E)RTU-5	6.9 kVA
(E)ACCU-1	153.3 kVA
(E)EF-1	0.7 kVA
(E)EF-1	0.9 kVA
(E)CU-1	3.8 kVA
(E)CU-2	3.8 kVA
(E)CU-3	2.8 kVA
LARGEST MOTOR x 125% ((E)ACCU-1)	141.8 kVA
SUM OF THE REST	140.2 kVA
TOTAL SUM	281.8 kVA

NON-CONTINUOUS LOADS
(DEMAND FACTORS ALREADY ACCOUNTED FOR IN PANEL SCHEDULES)

(E)LP-B	18.0 kVA
(E)LP-2	6.6 kVA
(E)RP-B1	24.2 kVA
(E)RP-B2	23.0 kVA
(E)RP-1A	25.7 kVA
(E)RP-1B	25.6 kVA
(E)RP-2A	25.9 kVA
(E)RP-2B	20.8 kVA
(E)RP-IDF	8.0 kVA
(E)RP-MDF	13.0 kVA
SUM	191.5 kVA

TOTAL DEMAND LOAD 569.7 kVA

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FOR BIDS	20 JUN 2019
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Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ONE LINE DIAGRAM - NEW WORK

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
E5.2

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(E)PANELBOARD LP-B

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	L	LTG.: RM 067, 069, 071, 073, 075, 079, 081, 083, 038, 036,032,030,028,026,047,049,051,053,055,057,059,061,065		20	1692	1692				20		SPARE		2
3	L	LTG.: RM 066, 080, 044, 042, 043, 041, 039, 035, 033, 031, 029, 027		20	808		1778		970	20		LTG.: CORRIDOR 090.07, 090.05, 090.08, 090.03	L	4
5	L	LTG.: LOWER LEVEL EAST WING AND STAIR A 90.02		20	1538			1698	160	20		LTG.: STAIR C	L	6
7	L	BUILDING MOUNTED LIGHTING CONTROLLER: (E) PARKING LOT LIGHTING (FRONT)		20	1500	2898			1398	20		LTG.: RM 167, 169, 171, 173, 177.1, 177, 179, 183, 187, 136, 185, 184, 164, 162, 160, 158, 154	L	8
9	L	BUILDING MOUNTED LIGHTING CONTROLLER: (E) PARKING LOT LIGHTING (CENTER)		20	1500		2750		1250	20		LTG.: FIRST LEVEL EAST WING	L	10
11	L	BUILDING MOUNTED LIGHTING CONTROLLER: (E) PARKING LOT LIGHTING (BACK)		20	1500			2398	898	20		LTG.: RM 187,08, 161, 159, 151, 149, 147, 145, 143, 141, 139, 131	L	12
13	L	BUILDING MOUNTED LIGHTING CONTROLLER: UNDER CANOPY EGRESS LIGHTING		20		975			975	20		LTG.: CORRIDOR 190.09, 190.07, 176, 190.10, 190.05, 130, 190.04, 190.03,	L	14
15		SPARE		20						20		SPARE		16
17		SPARE		20						20		SPARE		18
19		SPARE		20						20		SPARE		20
21		SPARE		20						20		SPARE		22
23		SPARE		20						20		SPARE		24
25		SPARE		20						20		SPARE		26
27		SPARE		20						20		SPARE		28
29		SPARE		20				200	200	20		DAMPER MOTORS	C	30
						5564	4528	4296						
						ØA	ØB	ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 100A
MAIN TYPE: MLO
MINIMUM A.I.C.: 22,000
MOUNTING: SURFACE

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD:		FEEDER DEMAND LOAD:		OVERCURRENT LOAD:		NOTES:
CONTINUOUS LOAD (C):	800	X 125%	990	X 100%	990	PROVIDE WITH FEED
NON-CONTINUOUS LOAD (NC):		X 100%		X 100%		THROUGH LUGS
KITCHEN LOAD (K):		X 100%		X 100%		
RECEPTACLE BASE LOAD (R):		X 100%		X 100%		
RECEPTACLE DEMAND LOAD (R):		X 50%		X 100%		
LIGHTING LOAD (L):	14199	X 100%	14199	X 125%	17749	
TRACK LIGHTING (T):		(150VA/2FT)		X 125%		
MOTORS, HIGHEST LOAD (M):		X 125%		X 100%		
MOTORS, REMAINING LOAD (M):		X 100%		X 100%		
TOTAL(KVA):	14.99	TOTAL(KVA):	14.44	TOTAL(KVA):	17.99	
TOTAL (AMPS):	86.94	TOTAL (AMPS):	40.08	TOTAL (AMPS):	49.92	

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(E)PANELBOARD LP-2

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	L	LTG.: RM 267, 269, 271, 273, 277.1, 277, 281, 283, 287, 289, 291, 286, 284, 272, 268, 262, 260, 256, 252, 258, 258.1, 265, 263, 261, 257		20	1739	2938			1199	20		LTG.: RM 255, 253, 251, 249, 247, 243.2, 243.3, 243, 239, 233, 227	L	2
3		SPARE		20			1202		1202	20		LTG.: CORRIDOR 290.08, 276, 290.09, 290.06, 290.05, 290.03, 230, 290.01,	L	4
5	L	LTG.: SECOND LEVEL EAST WING		20	1160			1160		20		SPARE		6
7		SPARE		20						20		SPARE		8
9		SPARE		20						20		SPARE		10
11		SPARE		20						20		SPARE		12
13		SPARE		20						20		SPARE		14
15		SPARE		20						20		SPARE		16
17		SPARE		20						20		SPARE		18
19		SPARE		20						20		SPARE		20
21		SPARE		20						20		SPARE		22
23		SPARE		20						20		SPARE		24
25		SPARE		20						20		SPARE		26
27		SPARE		20						20		SPARE		28
29		SPARE		20						20		SPARE		30
						2938	1202	1160						
						ØA	ØB	ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 100A
MAIN TYPE: MLO
MINIMUM A.I.C.: 22,000
MOUNTING: SURFACE

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD:		FEEDER DEMAND LOAD:		OVERCURRENT LOAD:		NOTES:
CONTINUOUS LOAD (C):		X 125%		X 100%		
NON-CONTINUOUS LOAD (NC):		X 100%		X 100%		
KITCHEN LOAD (K):		X 100%		X 100%		
RECEPTACLE BASE LOAD (R):		X 100%		X 100%		
RECEPTACLE DEMAND LOAD (R):		X 50%		X 100%		
LIGHTING LOAD (L):	8299	X 100%	8299	X 125%	10374	
TRACK LIGHTING (T):		(150VA/2FT)		X 125%		
MOTORS, HIGHEST LOAD (M):		X 125%		X 100%		
MOTORS, REMAINING LOAD (M):		X 100%		X 100%		
TOTAL(KVA):	8.30	TOTAL(KVA):	8.30	TOTAL(KVA):	10.37	
TOTAL (AMPS):	14.71	TOTAL (AMPS):	14.71	TOTAL (AMPS):	18.39	

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(E)PANELBOARD RP-B2

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1		B-1		20		300			300	20		DAMPERS	C	2
3		B-2		20						20		SPARE		4
5	R	LIGHT – AHU-1		20	1000			1000		20		SPARE		6
7	R	SEMANS		20	1000	1200			200	20		DHW-1	C	8
9	R	FLASHLIM		20	500		1218		718	20		SP-1	NC	10
11		SPARE		20				718	718				NC	12
13	C	EL CARE 1ST		20	500	1168			668	20		RECEPT. AND LTG.: ELEVATOR PIT, EL. MACHINE 045	NC	14
15	C	EL CARE 1ST		20	500		600		100	20		CAG LIGHT	C	16
17	R	RECEPT.: 090.01, 025, 015		20	1360			1360	100	20		SMOKES	C	18
19	R	HAND DRYER: 015		20	1200	2200			1000	20	GFI	EWC	C	20
21	R	TEACHING STATION, PROJECTOR: 001		20	1200		2400		1200	20		TEACHING STATION, PROJECTOR: 023	R	22
23	R	RECEPT.: 001		20	720			1260	540	20		RECEPT.: 023	R	24
25	R	TEACHING STATION, PROJECTOR: 005		20	1200	3120			1920	20	NEW	PARTITION (ALTERNATE #3)	NC	26
27	R	RECEPT.: 005		20	720		2640		1920				NC	28
29	R	MONITOR: CORRIDORE 090.03		20	250			1450	1200	20		HAND DRYER: 066 (ALTERNATE #4)	NC	30
31	C	BUILDING MOUNTED LIGHTING CONTROLLER		30	200	1400			1200	20		HAND DRYER: 080 (ALTERNATE #4)	NC	32
33		SPARE		20						20		SPARE		34
35	C	CP-6		20	528			528		20		SPARE		36
37		SPARE		20						20		SPARE		38
39		SPARE		20						20		SPARE		40
41		SPARE		20						20		SPARE		42
						9388	6858	6316						
						ØA	ØB	ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 225A
MAIN TYPE: MLO
MINIMUM A.I.C.: 25,000
MOUNTING: SURFACE

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD:		FEEDER DEMAND LOAD:		OVERCURRENT LOAD:		NOTES:
CONTINUOUS LOAD (C):	8426	X 125%	4985	X 100%	4985	PROVIDE WITH FEED
NON-CONTINUOUS LOAD (NC):	8849	X 100%	8849	X 100%	8849	THROUGH LUGS
KITCHEN LOAD (K):		X 100%		X 100%		
RECEPTACLE BASE LOAD (R):	10000	X 100%	10000	X 100%	10000	
RECEPTACLE DEMAND LOAD (R):	790	X 50%	895	X 100%	895	
LIGHTING LOAD (L):		X 100%		X 125%		
TRACK LIGHTING (T):		(150VA/2FT)		X 125%		
MOTORS, HIGHEST LOAD (M):		X 125%		X 100%		
MOTORS, REMAINING LOAD (M):		X 100%		X 100%		
TOTAL(KVA):	22.66	TOTAL(KVA):	23.02	TOTAL(KVA):	23.02	
TOTAL (AMPS):	62.83	TOTAL (AMPS):	63.91	TOTAL (AMPS):	63.91	

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(E)PANELBOARD RP-1B

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	R	DOOR SEC		15	180	380			200	20		CUH-1	C	2
3	C	CUH-2		15	200		1400		1200	20		MICROWAVE: 123	NC	4
5	R	MONITOR: MAIN LOBBY 130		20	250			1450	1200	20		DISPOSAL: 123	NC	6
7	R	MONITOR: MAIN LOBBY 130		20	250	610			360	20		COUNTER TOP: 123	R	8
9	C	POWER DOOR: ENTRY VESTIBULE 190.04		20	300		660		360	20		COUTER TOP: 123	R	10
11	C	CUH-3		15	200			1200	1000	20		RECEPT.: AV EQUIPMENT	R	12
13	C	VENDING MACHINE: LOUNGE 125	GFI	20	1500	1700			200	20		FAA	C	14
15	C	VENDING MACHINE: LOUNGE 126	GFI	20	1500		3000		1500	20		PROJECTOR SCREEN AND PROJECTOR: 125	NC	16
17	C	VENDING MACHINE: LOUNGE 127	GFI	20	1500			3000	1500	20		HAND DRYER: 184 (ALTERNATE #4)	NC	18
19	R	RECEPT.: 100.1, 100.2		20	720	2220			1500	20		HAND DRYER: 186 (ALTERNATE #4)	NC	20
21	R	RECEPT.: 100.1, 100.2, 100		20	900		900			20		SPARE		22
23	R	RECEPT.: 100		20	720			720		20		SPARE		24
25	R	RECEPT.: 100		20	720	720				20		SPARE		26
27	R	RECEPT.: 100		20	720		720			20		SPARE		28
29	R	RECEPT.: 100		20	720			720		20		SPARE		30
31	NC	HAND DRYPER: 101		20	1200	1200				20		SPARE		32
33	R	RECEPT.: 101,190.01,114,125		20	900		900			20		SPARE		34
35	R	RECEPT.: 108,110		20	900			900		20		SPARE		36
37	R	RECEPT.: 108,111		20	900	900				20		SPARE		38
39	R	RECEPT.: 125		20	1080		1080			20		SPARE		40
41	R	RECEPT.: 123		20	720			720		20		SPARE		42
						7730	8660	8710						
						ØA	ØB	ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 225A
MAIN TYPE: MLO
MINIMUM A.I.C.: 22,000
MOUNTING: SURFACE

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD:		FEEDER DEMAND LOAD:		OVERCURRENT LOAD:		NOTES:
CONTINUOUS LOAD (C):	6800	X 125%	7000	X 100%	7000	PROVIDE WITH FEED
NON-CONTINUOUS LOAD (NC):	8900	X 100%	8900	X 100%	8900	THROUGH LUGS
KITCHEN LOAD (K):		X 100%		X 100%		
RECEPTACLE BASE LOAD (R):	10000	X 100%	10000	X 100%	10000	
RECEPTACLE DEMAND LOAD (R):	1400	X 50%	700	X 100%	700	
LIGHTING LOAD (L):		X 100%		X 125%		
TRACK LIGHTING (T):		(150VA/2FT)		X 125%		
MOTORS, HIGHEST LOAD (M):		X 125%		X 100%		
MOTORS, REMAINING LOAD (M):		X 100%		X 100%		
TOTAL(KVA):	25.10	TOTAL(KVA):	25.60	TOTAL(KVA):	25.60	
TOTAL (AMPS):	69.67	TOTAL (AMPS):	71.02	TOTAL (AMPS):	71.02	

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(E)PANELBOARD RP-2B

#	LOAD TYPE	DESCRIPTION	CB TYPE	CB	VA	ØA	ØB	ØC	VA	CB	CB TYPE	DESCRIPTION	LOAD TYPE	#
1	R	TEACHING STATION: CONFERENCE 233		20	500	1580			1080	20		RECEPT.: CONFERENCE 233, 237	R	2
3	R	MONITOR: CONFERENCE 233		20	250		1330		1080	20		RECEPT.: CONFERENCE 233, 237	R	4
5	R	TEACHING STATION: CONFERENCE 277		20	500			1700	1200	20	GFI	EWC: 290.01	C	6
7	R	MONITOR: CONFERENCE 277		20	250	610			360	20		RECEPT.: 222	R	8
9	R	RECEPT.: 204,206		20	720		1620		900	20		RECEPT.: 290.01, 216	R	10
11	R	RECEPT.: 206, 204, 200, 201, 203, 209.01		20	1080			2580	1500	20		HAND DRYER: 216	NC	12
13	R	RECEPT.: 206, 204, 201, 203, 209.01		20	900	2400			1500	20		HAND DRYER: 284 (ALTERNATE #4)	NC	14
15	R	RECEPT.: 201,203		20	720		2220		1500	20		HAND DRYER: 286 (ALTERNATE #4)	NC	16
17	R	RECEPT.: 207,209		20	720			1248	528	15	NEW	EF-2	C	18
19	R	RECEPT.: 213, 215		20	720				180	20		RECEPT.: 290.01	R	20
21	R	RECEPT.: 219,221		20	720		720			20		SPARE		22
23	R	RECEPT.: 225, 224		20	720			720		20		SPARE		24
25	R	RECEPT.: 207,209,213,215,219		20	900	900				20		SPARE		26
27	R	RECEPT.: 207,209,213,215,219		20	900		900			20		SPARE		28
29	R	RECEPT.: 222,224,225,221,290.01		20	900			1440	540	20		RECEPT.: ROOF	R	30
31	NC	SINK AND FLUSH VALVES: RESTROOM 284, 286		20	600	1600			1000	20		DAMPERS	C	32
33	R	RECEPT.:222,224,225,221,290.01		20						20		SPARE		34
35		SPARE		20						20		SPARE		36
37		SPARE		20						20		SPARE		38
39		SIEMENS ROOF		20	500		500			20		SPARE		40
41		SIEMENS ROOF		20	500			500		20		SPARE		42
						7090	7290	8188						
						ØA	ØB	ØC						

PANELBOARD INFORMATION
VOLTAGE: 208Y/120
BUS AMPACITY: 225A
MAIN TYPE: MLO
MINIMUM A.I.C.: 22,000
MOUNTING: SURFACE

PANELBOARD LOCATION

BRANCH CIRCUIT CONNECTED LOAD:		FEEDER DEMAND LOAD:		OVERCURRENT LOAD:		NOTES:
CONTINUOUS LOAD (C):	2728	X 125%	3410	X 100%	3410	PROVIDE WITH FEED
NON-CONTINUOUS LOAD (NC):	8100	X 100%	8100	X 100%	8100	THROUGH LUGS
KITCHEN LOAD (K):		X 100%		X 100%		
RECEPTACLE BASE LOAD (R):	10000	X 100%	10000	X 100%	10000	
RECEPTACLE DEMAND LOAD (R):	4640	X 50%	2320	X 100%	2320	
LIGHTING LOAD (L):		X 100%		X 125%		
TRACK LIGHTING (T):		(150VA/2FT)		X 125%		
MOTORS, HIGHEST LOAD (M):		X 125%		X 100%		
MOTORS, REMAINING LOAD (M):		X 100%		X 100%		
TOTAL(KVA):	22.47	TOTAL(KVA):	20.88	TOTAL(KVA):	20.88	
TOTAL (AMPS):	62.57	TOTAL (AMPS):	57.92	TOTAL (AMPS):	57.92	

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PANEL SCHEDULE INDEX		
LP-B	LP-2	RP-B2
RP-1B	RP-2B	

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Structural Engineer — Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
PANEL SCHEDULES

Project Number: 2013088.22 — WSU Project No: 063-301464
Drawn By: WGH — Approved By: JAM
Scale: As Indicated
Seal:

Signature:

Drawing No:
E5.3

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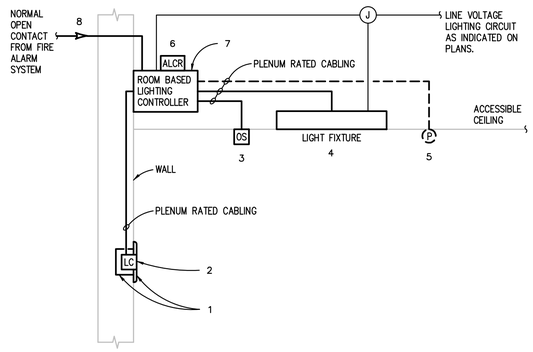


ROOM BASED LIGHTING CONTROL SYSTEM DIAGRAM WIRED - LOW VOLTAGE

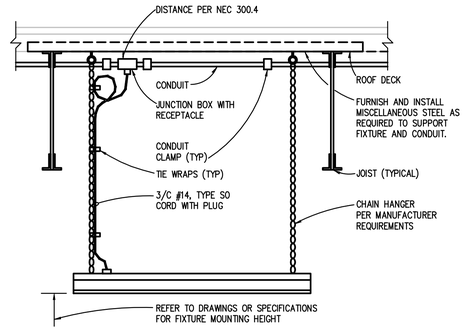
NO SCALE

GENERAL NOTES:

1. REFER TO SPECIFICATIONS FOR ACCEPTED MANUFACTURERS.
2. PROVIDE QUANTITY OF ROOM BASED LIGHTING CONTROLLERS AS REQUIRED TO MEET FUNCTIONALITY INDICATED ON PLAN.
3. REFER TO MANUFACTURER'S INSTALLATION GUIDE FOR EXACT WIRING METHOD. WIRING METHOD AND CONFIGURATION TO BE PER MANUFACTURER'S RECOMMENDATIONS.
4. LOCATE SENSORS IN CENTER OF A FULL CEILING TILE, WHERE APPLICABLE.
5. MOUNTING LOCATION OF SENSORS PER MANUFACTURER'S RECOMMENDATION.
6. REFER TO INTERIOR LIGHTING CONTROL SCHEDULE FOR SYSTEM CONFIGURATIONS SETTINGS. SENSOR ADJUSTMENT: BEFORE MAKING ADJUSTMENTS, MAKE SURE ROOM FURNITURE IS INSTALLED, LIGHTING CIRCUITS ARE TURNED ON, AND THE HVAC SYSTEMS ARE IN THE ON POSITION. VAV SYSTEMS SHOULD BE SET TO THEIR HIGHEST AIRFLOW.

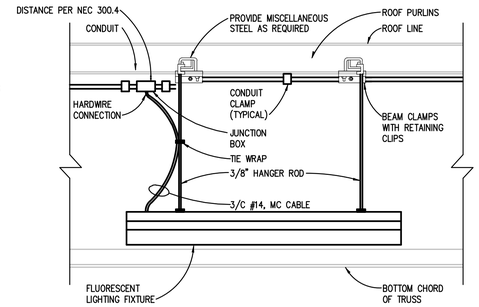
(#) KEYED NOTES:

1. GANG LIGHTING CONTROL DEVICES IN COMMON GANGED BOX. PROVIDE SAME SIZE GANG COVER PLATE FROM THE SAME MANUFACTURER AS THE LIGHTING CONTROL DEVICE AS REQUIRED.
2. LIGHTING CONTROL DEVICE(SWITCH). REFER TO LIGHTING CONTROL DEVICE BUTTON LAYOUT DETAIL FOR ENGRAVING REQUIREMENTS AND PLANS FOR LOCATIONS.
3. CEILING MOUNTED SENSOR. REFER TO PLANS FOR LAYOUT AND QUANTITIES.
4. REFER TO LIGHTING FIXTURE SCHEDULE. REFER TO PLANS FOR LAYOUT AND QUANTITIES.
5. CEILING MOUNTED PHOTOCELL (AS REQUIRED). REFER TO PLANS FOR PRIMARY AND SECONDARY ZONE CONTROL.
6. PROVIDE ONE AUTOMATIC LOAD CONTROL RELAY PER SWITCHING CIRCUIT WHERE EMERGENCY LIGHTING FROM A GENERATOR OR LIGHTING INVERTER IS INDICATED ON PLANS. REFER TO AUTOMATIC LOAD CONTROL RELAY DETAIL.
7. ROOM BASED LIGHTING CONTROLLER TO BE LOCATED IN ACCESSIBLE CEILING ADJACENT TO DOOR DIRECTLY ABOVE LIGHTING CONTROL DEVICE. IF ACCESSIBLE CEILING SPACE IS NOT ACCESSIBLE, AN ACCESS HATCH SHALL BE PROVIDED.
8. REFER TO LIGHTING CONTROL SCHEDULE FOR WHERE EGRESS LIGHTING CONTROL IS REQUIRED. WHEN REQUIRED CONNECT ROOM BASED LIGHTING CONTROLLER BACK TO FIRE ALARM SYSTEM WITH A NORMALLY OPEN CONTRACT FOR FIRE ALARM INITIATION EVENTS.



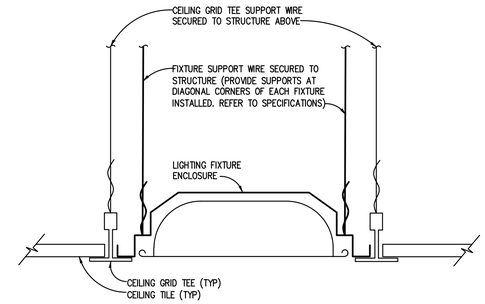
TYPICAL MOUNTING DETAIL FOR CHAIN HUNG LIGHTING FIXTURES

NO SCALE



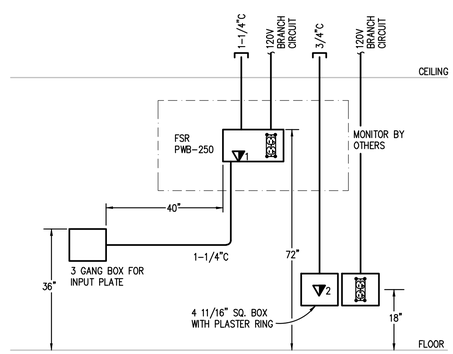
DETAIL OF PENDANT MOUNTED LIGHTING FIXTURE

NO SCALE



RECESSED LIGHTING FIXTURE INSTALLATION DETAIL

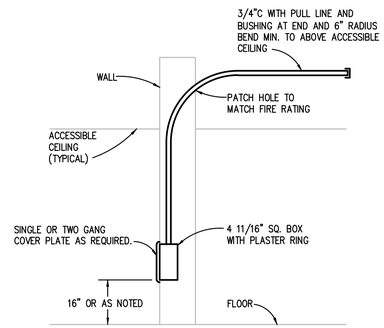
NO SCALE



NOTE:
1) COORDINATE LOCATION OF FSR BOX BEHIND MONITOR WITH ARCHITECTURAL DRAWINGS AND OWNER PRIOR TO ROUGH IN.
2) PROVIDE PULL STRINGS IN LOW VOLTAGE CONDUITS AND END BUSSINGS FOR STUB UPS IN CEILING SPACE.

MEETING ROOM DETAIL

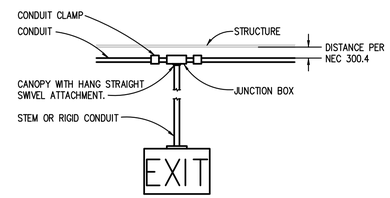
NO SCALE



NOTE: IF CEILING IN ROOM IS NOT ACCESSIBLE ROUTE CONDUIT TO NEAREST ACCESSIBLE CEILING IN DIRECTION OF TELECOM ROOM.

TELE/DATA OUTLET DETAIL

NO SCALE

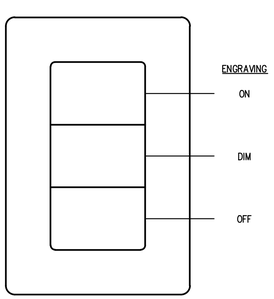


EXIT SIGN PENDANT MOUNTING DETAIL

NO SCALE

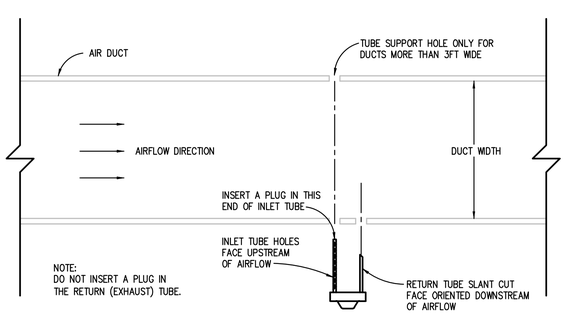
NOTES:

1. STEM OR RIGID CONDUIT LENGTH TO BE COORDINATED TO ENSURE SIGNAGE IS READILY VISIBLE FROM ANY DIRECTION OF EGRESS TRAVEL. THE BOTTOM OF THE SIGNAGE SHALL NOT BE MORE THAN 6'-8" ABOVE THE TOP EDGE OF THE EGRESS OPENING INTENDED FOR DESIGNATION BY THE SIGNAGE (NFPA 101 7.10.1.9).
2. MOUNT EXIT SIGN PER MANUFACTURER'S RECOMMENDATIONS AT BOTTOM OF STEM/RIGID CONDUIT.



LIGHTING CONTROL DEVICE BUTTON LAYOUT AND ENGRAVING REQUIREMENTS DETAIL

NO SCALE

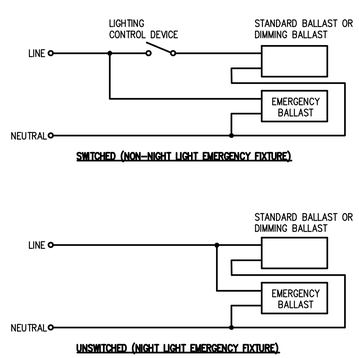


DUCT TYPE DETECTOR INSTALLATION

NO SCALE

NOTES:

1. PROVIDE SAMPLING TUBE LENGTH AS REQUIRED FOR WIDTH OF DUCT.



EMERGENCY BALLAST WIRING DIAGRAM

NO SCALE

NOTE:

PRIMARY CIRCUIT ONLY. LAMP LEADS NOT SHOWN.

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PBA Project No.: 2019.0032

FOR BIDS	20 JUN 2019
PLAN REVIEW	17 JUN 2019

Project
SCHOOL OF SOCIAL WORK - PHASE 2
5447 Woodward, Detroit, MI

Drawing Title
ELECTRICAL DETAILS AND DIAGRAMS

Project Number: 2013088.22 WSU Project No: 063-301464

Drawn By: WGH Approved By: JAM

Scale: As Indicated

Seal:

Signature:

Drawing No:
E7.1

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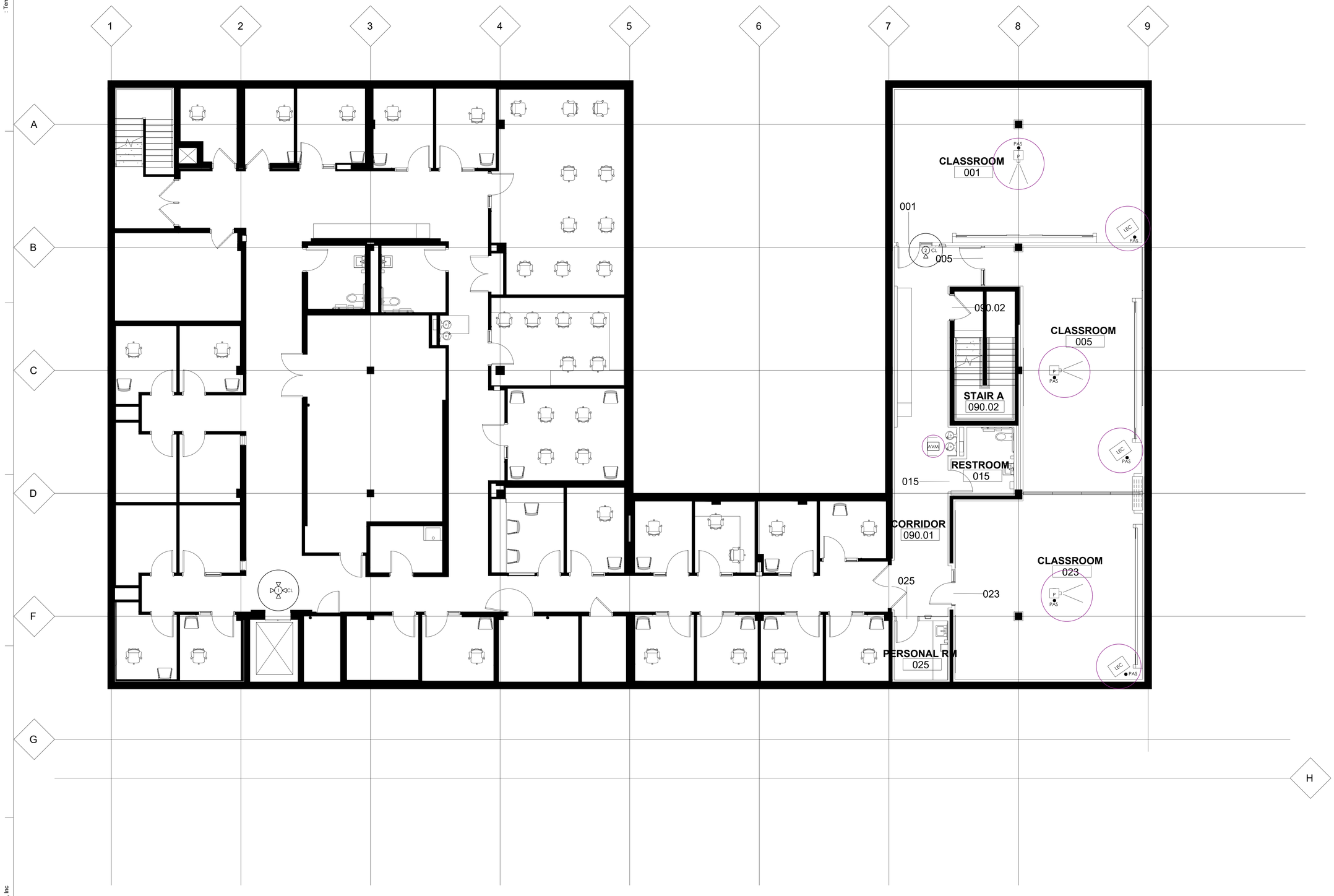

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Client

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586-756-8400

ISSUED FOR BID	06-20-2019

Project

SCHOOL OF SOCIAL WORK
5447 Woodward, Detroit, MI

Drawing Title

LOWER LEVEL SECURITY FLOOR PLAN

WSU Project No: 063-301464

Scale:

Seal:

Signature:

Drawing No:

SC-FPL

SECURITY SYMBOL CHART

SYMBOL	DESCRIPTION
AVM	AUDIO/VIDEO MONITOR PANEL
360 C	360 ° CAMERA
C	CAMERA
LEC	LECTURE CART
PAS	PULL APART SWITCH
P	PROJECTOR

: Template Version

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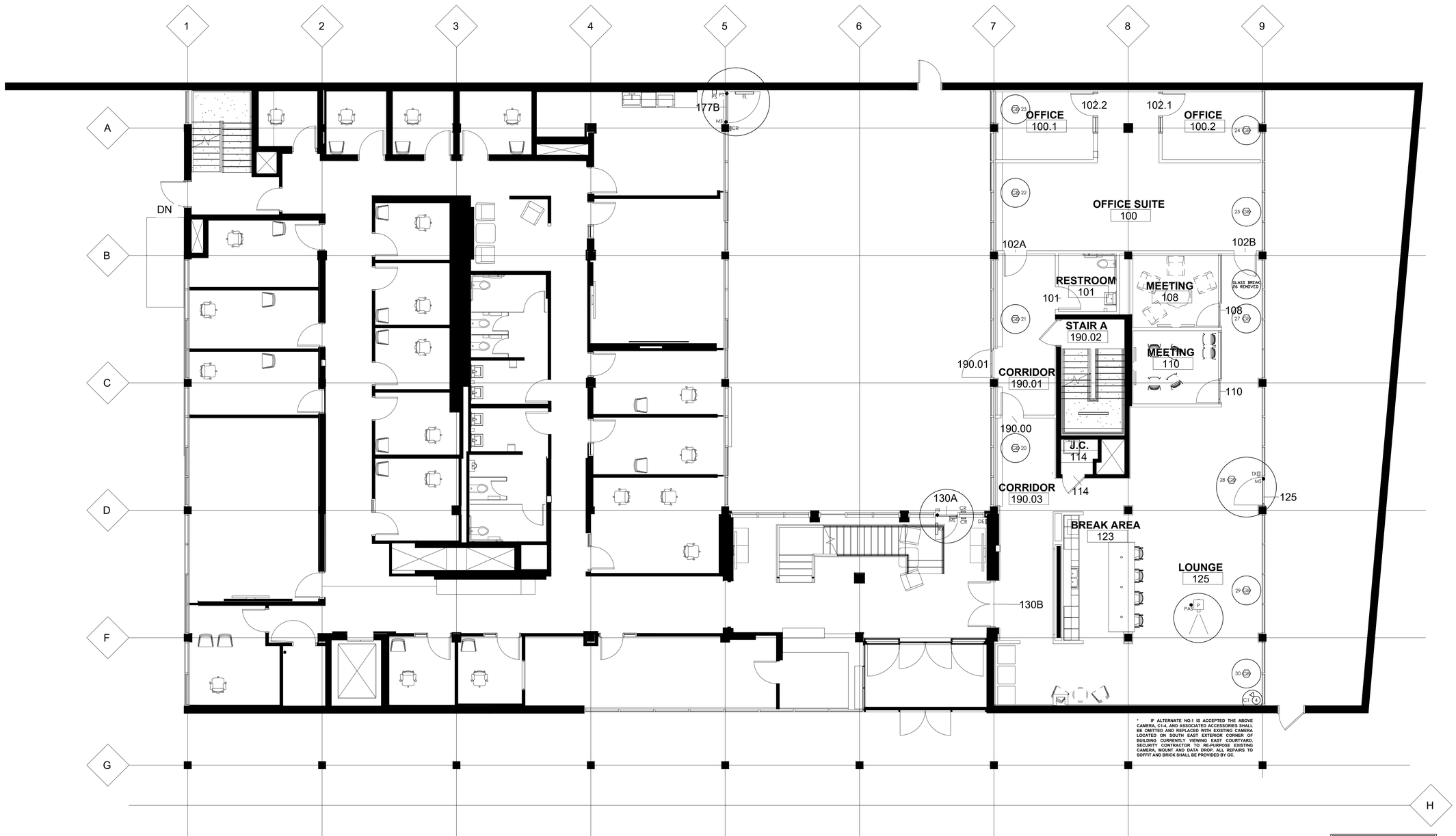

* IF ALTERNATE NO.1 IS ACCEPTED THE ABOVE CAMERA, C1-4, AND ASSOCIATED ACCESSORIES SHALL BE OMITTED AND REPLACED WITH EXISTING CAMERA LOCATED ON SOUTH EAST EXTERIOR CORNER OF BUILDING CURRENTLY VIEWING EAST COURTYARD. SECURITY CONTRACTOR TO RE-PURPOSE EXISTING CAMERA, MOUNT AND DATA DROP. ALL REPAIRS TO SOFFIT AND BRICK SHALL BE PROVIDED BY GC.

SECURITY SYMBOL CHART

SYMBOL	DESCRIPTION
AVM	AUDIO/VIDEO MONITOR PANEL
AO	AUTO OPERATOR
AS	ACTUATOR SWITCH
C	CAMERA
CR	CARD READER
CX	CHEKIT DEVICE
DB	DOOR BELL BUTTON
DC	DOOR CHIME
DE	DELAYED EGRESS KEYSWITCH
EL	ELEC. LATCH RETRACTION EXIT DEVICE
EMA	ELECTRIC MORTISE LOCK
GB	GLASS BREAK DETECTOR
HN	HORN
KP	KEYPAD
LEC	LECTURE CART
ML	MAGNETIC LOCK
MS	MAGNETIC SWITCH
PAS	PULL APART SWITCH
PJ	PROJECTOR
PS	POWER SUPPLY
PT	POWER TRANSFER
RX	REQUEST TO EXIT SWITCH
SS	SIGNAL SWITCH
TP	TERMINATION PANEL
TX	TRANSPONDER BOX

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ISSUED FOR BID	06-20-2019

Project

SCHOOL OF SOCIAL WORK
5447 Woodward, Detroit, MI

Drawing Title

FIRST FLOOR SECURITY FLOOR PLAN

WSU Project No: 063-301464

Scale:

Seal:

Signature:

Drawing No:

SC-FP1

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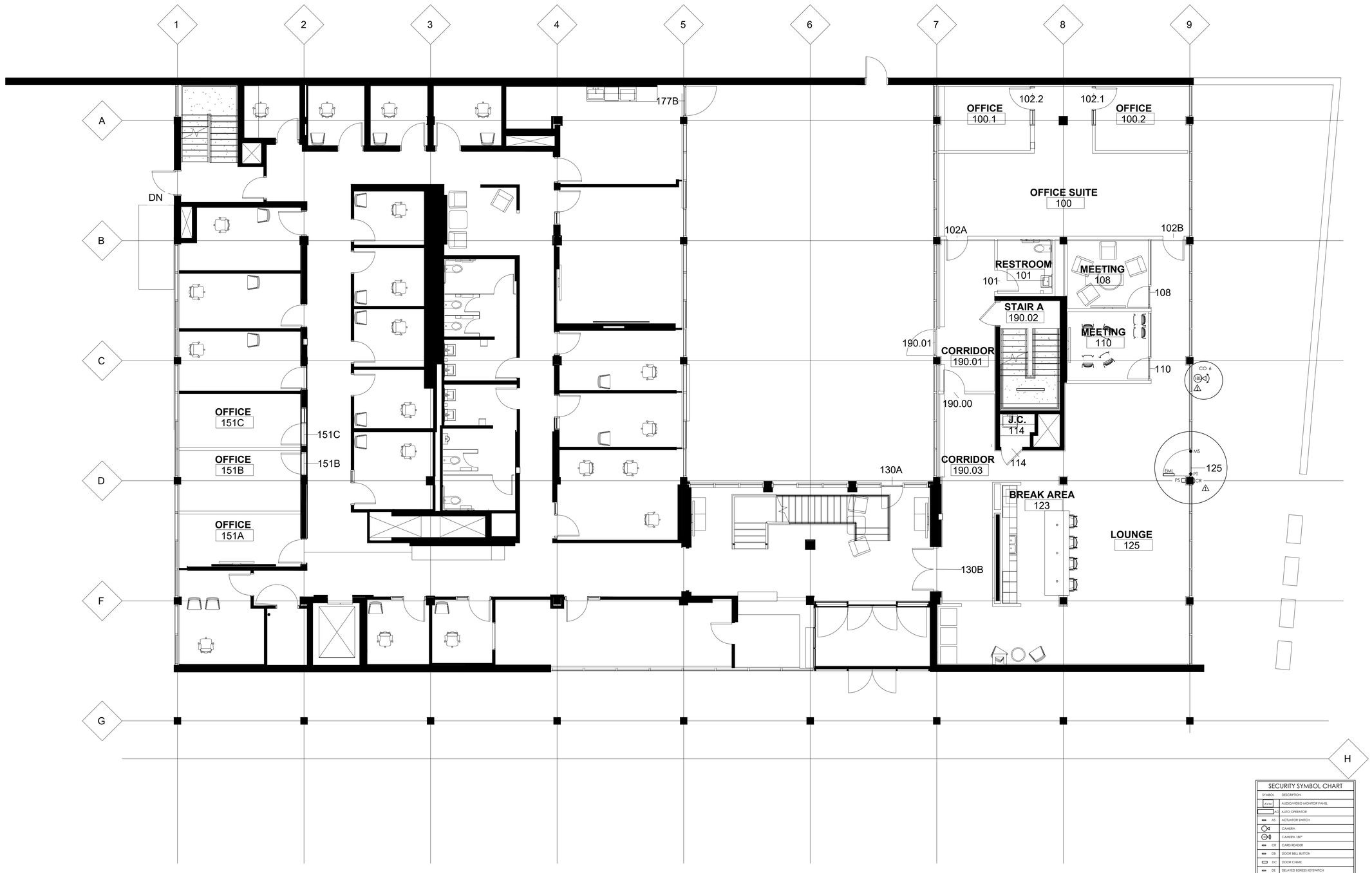

⚠1 = ALTERNATE #1

SECURITY SYMBOL CHART	
SYMBOL	DESCRIPTION
AV/M	AUDIO/VIDEO MONITOR PANEL
AO	AUTO OPERATOR
AS	ACTUATOR SWITCH
	CAMERA
	CAMERA 180°
CR	CARD READER
DB	DOOR BELL BUTTON
DC	DOOR CHIME
DE	DELAYED EGRESS KEYSWITCH
EL	ELEC. LATCH RETRACTION EXIT DEVICE
EML	ELECTRIC MORTISE LOCK
GB	GLASS BREAK DETECTOR
HN	HORN
KP	KEYPAD
LEC	LECTURE CART
ML	MAGNETIC LOCK
MS	MAGNETIC SWITCH
PAS	PULL APART SWITCH
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Key Plan

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ISSUED FOR BID	06-20-2019

Project

SCHOOL OF SOCIAL WORK

5447 Woodward, Detroit, MI

Drawing Title

FIRST FLOOR ALTERNATE SECURITY FLOOR PLAN

WSU Project No: 063-301464

Scale:

Seal:

Signature:

Drawing No:

SC-FP1A

: Template Version

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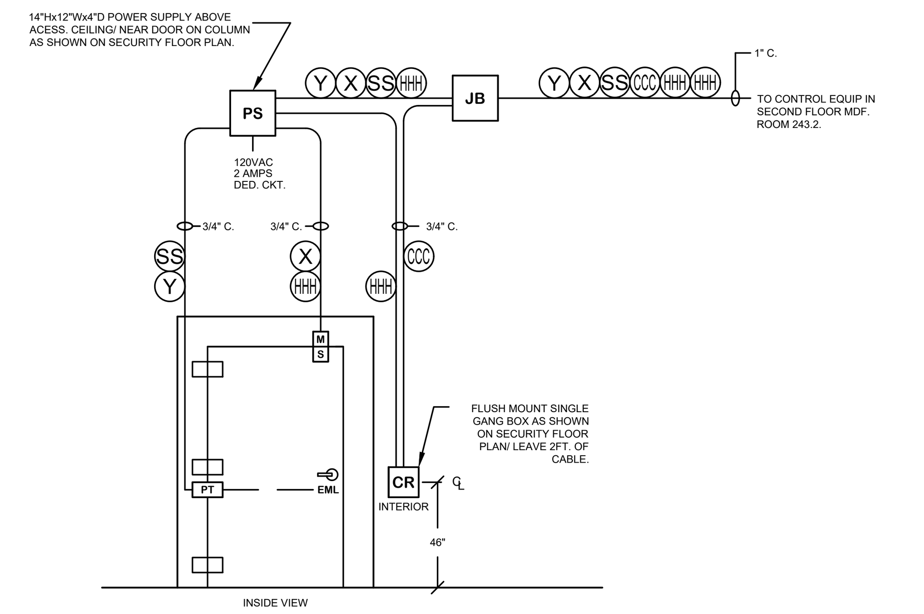
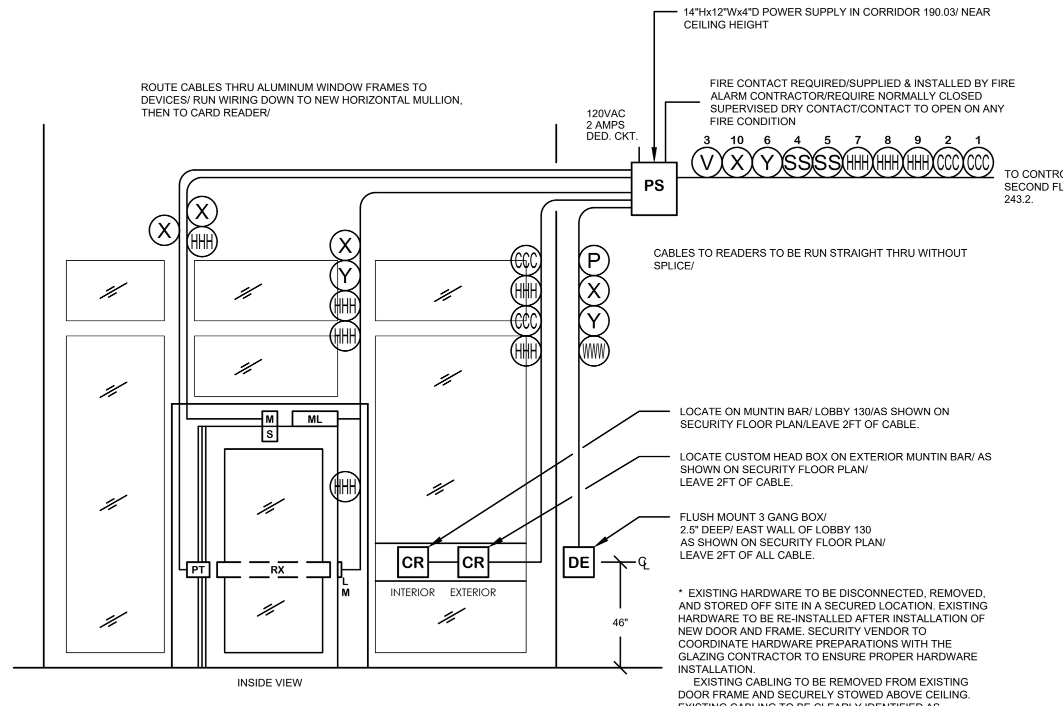
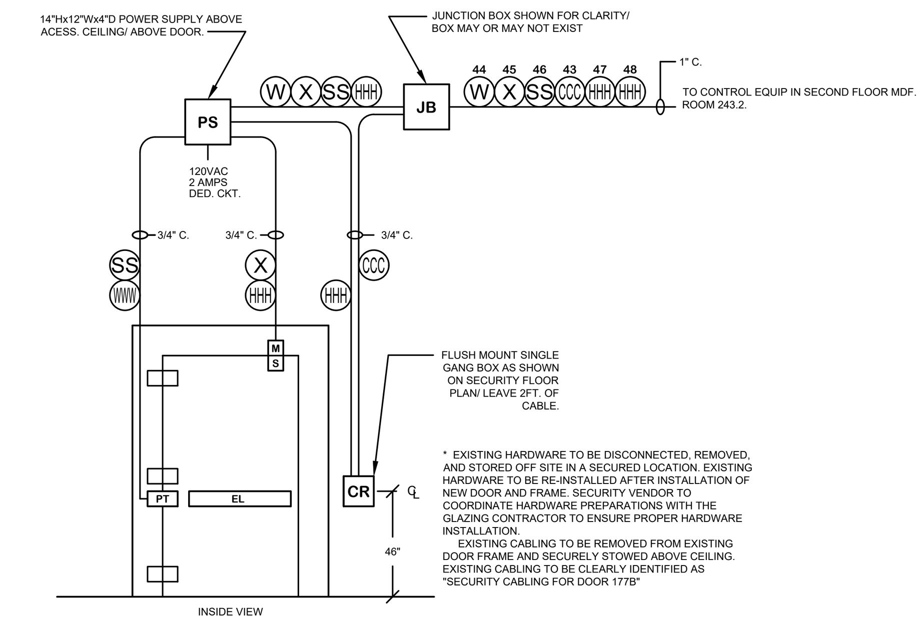


1 ALTERNATE CARD ACCESS WITH LATCH RETRACTION-LOUNGE
EXTERIOR DOOR 125 (SECURITY SET SS-A)

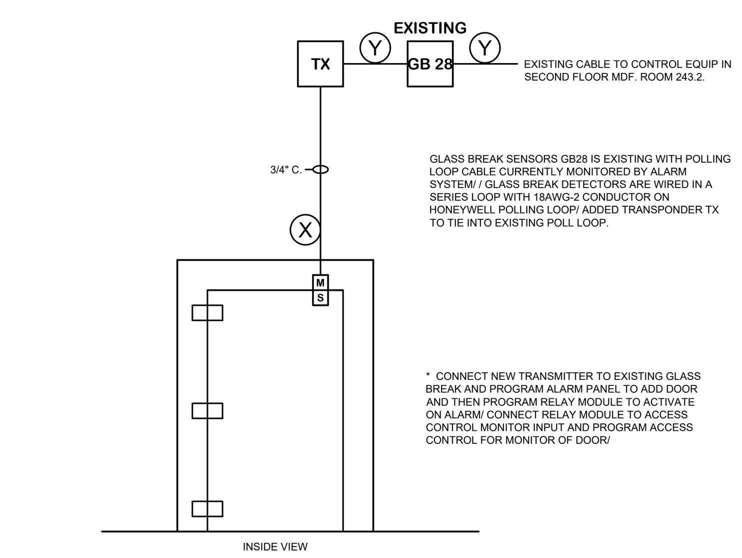
* ALL CABLING TO BE INSTALLED AS PART OF BASE BID/ CONNECTION TO CARD ACCESS SYSTEM AND ELECTRICAL HARDWARE MATERIAL AND INSTALLATION TO BE BID AS AN ALTERNATE.



2 DELAYED EGRESS MAGLOCK READER DOOR
DOOR 130A (SECURITY SET SS-B)



3 REMOVE AND REINSTALL CARD ACCESS WITH LATCH RETRACTION-LOUNGE
EXTERIOR DOOR 177B (SECURITY SET SS-C)



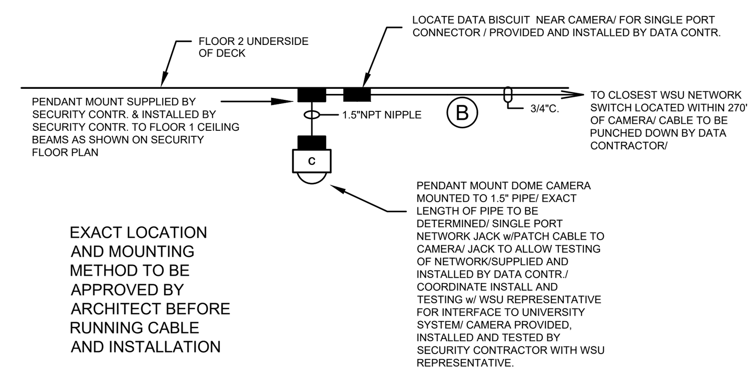
4 MONITORED DOOR
EXTERIOR DOOR 125 (SECURITY SET SS-1)

GLASSBREAK RELOCATION GB20 - GB25, GB27 - GB30

GLASS BREAK SENSORS TO BE DISCONNECTED, REMOVED AND STORED OFF SITE IN A SECURE LOCATION DURING DEMO WORK/ PROGRAM ZONES OUT OF SYSTEM/ SECURELY STOW CABLE ABOVE CEILING AND CLEARLY IDENTIFY AS "SECURITY CABLING FOR GLASS BREAK DETECTION LOOP" EVERY 5 FEET TO AVOID DEMO CREW FROM ACCIDENTAL DEMO/ THEN EXISTING UNITS TO BE RELOCATED TO ADJACENT WALL, BACK WALL, OR LAY IN CEILING AS CONDITIONS ALLOW FOR FULL COVERAGE. (10 TOTAL)/ GLASS BREAK DETECTORS ARE WIRED IN A SERIES LOOP WITH 18AWG-2 CONDUCTOR ON HONEYWELL POLLING LOOP/ ADDITIONAL CABLE RUNS MAY BE NECESSARY WHEN RELOCATING/ REFERENCE HONEYWELL FG1625SN MANUAL FOR COVERAGE

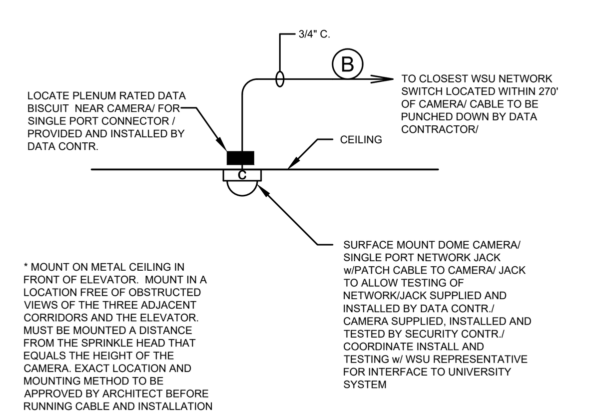
DEMO & REINSTALL

5 GLASS BREAK RELOCATION
PERIMETER INTRUSION PROTECTION ALARM (SECURITY SET SS-1)

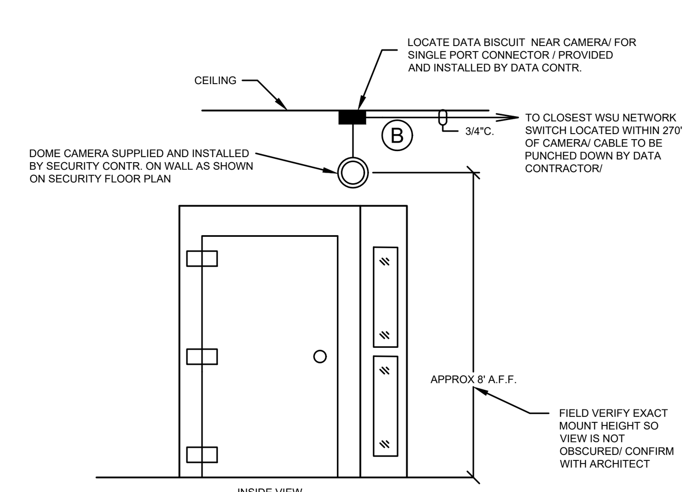


EXACT LOCATION AND MOUNTING METHOD TO BE APPROVED BY ARCHITECT BEFORE RUNNING CABLE AND INSTALLATION

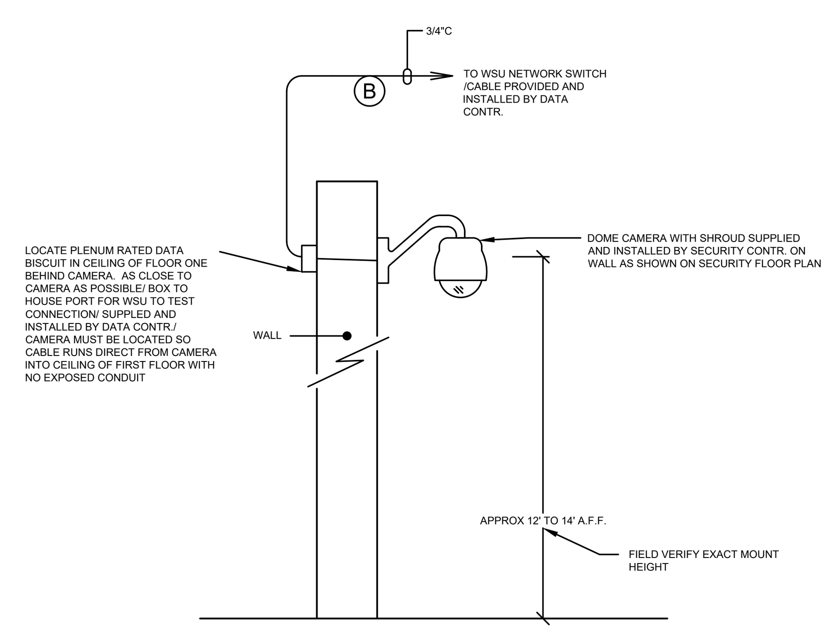
A IP PENDANT MOUNT CAMERA DETAIL
C1-4 SOUTHEAST CORNER OF LOUNGE 125 (SEE GENERAL NOTE #26)



B CEILING MOUNT IP CAMERA DETAIL
CL-1 LOWER LEVEL ELEVATOR LOBBY (P3717PLE)



C INTERIOR WALL MOUNT IP CAMERA DETAIL
CL-2 LOWER LEVEL NORTH END OF CORRIDOR 090.01 (P3225LV)



D ALTERNATE EXTERIOR WALL MOUNT GOOSENECK IP CAMERA DETAIL
C0-6 NORTHEAST CORNER OF EAST COURTYARD VIEWS DOOR 125

GENERAL NOTES

1. THIS DRAWING IS FOR DESIGN INTENT. SECURITY CONTRACTOR SHALL FIELD VERIFY ALL WORK AND 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. ALL CABLING NOTED ON DRAWING IS FOR DESIGN INTENT. SECURITY CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY EXACT CABLING REQUIREMENTS WITH MANUFACTURERS.
3. ALL CONDUIT, RACEWAY & ROUGH IN BOXES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTR. UNLESS OTHERWISE SPECIFIED.
4. 120 VAC POWER TO BE SUPPLIED BY ELECTRICAL CONTRACTOR
5. SECURITY CONTRACTOR MUST PROVIDE AS BUILT DIAGRAM WITH WIRE TAG NUMBER OF CABLE ON DOCUMENT.
6. ALL CABLING TO BE RUN BY SECURITY CONTRACTOR WITHOUT SPLICING UNLESS OTHERWISE SPECIFIED/ IF SPLICING IS REQUIRED, SPLICES MUST BE SOLDERED & HEAT SHRUNK.
7. ALL CABLES TO BE ROUTED CLEAR OF FLOURESCENT LIGHTING AND HIGH POWER EQUIPMENT.
8. CAMERA CABLING TO BE INSTALLED, TERMINATED AND TESTED BY NETWORK CONTRACTOR. TEST RESULTS ARE TO BE SUBMITTED TO ARCHITECT FOR THE UNIVERSITY.
9. PAINTABLE SUITABLE RACEWAY TO BE USED TO PROTECT WIRING, COVER IN EXPOSED AREAS, AND ALLOW FOR FUTURE CHANGES. CONDUIT OR WIREMOLD TO BE USED IN EXPOSED AREAS, ANY RACEWAY TO BE APPROVED BY ARCHITECT BEFORE USING.
10 DEDICATED CIRCUITS ARE DEDICATED TO SECURITY SYSTEM, NOT TO INDIVIDUAL PWR SUPPLY BOXES.
11. ALL PENETRATIONS OF WALLS AND FLOORS MUST BE FIRE STOPPED.
12. ANY HOLES MADE DURING INSTALLATION MUST BE REPAIRED AND PAINTED BY GENERAL CONTRACTOR TO MATCH EXISTING.
13. CABLE RUNS MUST BE ABOVE LAYIN CEILING SPACE OR IN CABLE TRAY AND NOT IN EXPOSED AREAS UNLESS IN CONDUIT OR SUITABLE RACEWAY. J HOOKS ARE ACCEPTABLE IN CERTAIN AREAS. CONDUIT AND RACEWAY ARE NOT TO BE USED WHERE VISABLE UNLESS APPROVED BY ARCHITECT.
14. ALL CABLE RUNS MUST BE VERTICAL OR HORIZONTAL/ NO DIAGONAL RUNS ARE TO BE MADE UNLESS APPROVED BY ARCHITECT.
15. ALL SECURITY RELATED CABLINGTO BE CONCEALED INSIDE VERTICAL AND HORIZONTAL CURTAIN WALL MULLIONS. SECURITY CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL NECESSARY CABLE WITH GLAZING CONTRACTOR AT TIME OF CURTAIN WALL INSTALLATION.
16. SECURITY FLOOR PLAN DRAWINGS MAY NOT BE TO SCALE SO FIELD CHECKS OF WIRE RUN LENGTHS SHOULD BE DONE.
17. SEE SECURITY SPECIFICATIONS FOR A LIST OF MATERIAL & OPERATION DESCRIPTION.
18. INTERIOR GLASS BREAK DETECTORS TO BE SECURED WITH A BACK BOX ASSEMBLY INCLUDING CEILING GRID BRACKET, SINGLE GANG BACK BOX AND SINGLE GANG MUD RING WHEN MOUNTED ON LAY IN CEILING. GLASS BEAK SENSORS GB20 - GB25, GB27 - GB30 WILL HAVE TO BE RELOCATED FOR PROPER DETECTION.
19. UNLESS OTHERWISE NOTED, SECURITY CONTRACTOR (SC) REQUIRED TO PROVIDE FOR ANY SUBCONTRACTORS NEEDED TO FULFILL ENTIRE SCOPE OF THIS PROJECT. ALL PENETRATIONS OF WALLS, FLOORS, CEILINGS, ETC. TO BE PERFORMED BY (SC) AND ITS SUBCONTRACTORS. REPAIR OF ALL PENETRATIONS, DAMAGE, ETC TO BE PREFORMED BY (SC) AND ITS SUBCONTRACTORS. ALL CABLING, RACEWAY AND ANY OTHER WORK REQUIRED FOR THE COMPLETION OF ALL WORK TO BE PROVIDED BY (SC)
20. SEE ARCHITECTURAL DRAWINGS FOR CONDUIT ROUGH INS BY ELEC. CONTR./SECURITY CONTRACTOR MUST SHOW LOCATIONS OF ALL JB BOXES ON SECURITY FLOOR PLANS WITH AS BUILTS DRAWINGS.
21. SECURITY CONTRACTOR TO INSTALL & WIRE ALL DEVICES TO UNIVERSITY REQUIREMENTS/ SECURITY CONTRACTOR TO PROVIDE COMPLETE SET OF AS BUILT DRAWINGS INCLUDING RISER, SCHEMATICS, FLOOR PLANS & PROGRAMMING INFORMATION TO ARCHITECT.
22. ELEC. CONTR. SHALL BE RESPONSIBLE TO VERIFY THAT CONDUIT SPECIFIED WITH CABLE IS ADEQUATE. CONDUIT SPECIFIED DOES NOT TAKE INTO ACCOUNT FOR NUMBER OF TURNS AND LENGTH.
23. DOORS AND CAMERAS MARKED AS ALTERNATES ARE TO BE QUOTED AS ALTERNATES/ SEE SECURITY SPECIFICATION AND SECURITY FLOOR PLANS FOR MORE DETAILS.
24. SECURITY CONTRACTOR TO SUBMIT SHOP DRAWING FOR HOW GLASS BREAK DETECTORS ARE TO BE MOUNTED AND SUBMIT TO ARCHITECT FOR APPROVAL BEFORE MOUNTING.
25. ALL NETWORK CAMERAS MUST HAVE A MAXIMUM LENGTH OF 295 FEET.
26. IF ALTERNATE NO. 1 IS ACCEPTED THEN CAMERA C1-4 AND ASSOCIATED ACCESSORIES SHALL BE OMITTED AND REPLACED WITH EXISTING CAMERA LOCATED ON SOUTH EAST EXTERIOR CORNER OF BUILDING/ CURRENTLY IT IS VIEWING EAST COURTYARD/ SECURITY CONTRACTOR TO RE-PURPOSE EXISTING CAMERA, MOUNT AND DATA DROP/ ALL REPAIRS TO SOFFIT AND BRICK SHALL BE PROVIDED BY GC.

TITLE PAGE

SHT	DESCRIPTION
SC-R1	SECURITY RISER DIAGRAM
SC-R2	SECURITY RISER DIAGRAM
SC-FPL	SECURITY FLOOR PLAN - LOWER LEVEL
SC-FP1	SECURITY FLOOR PLAN - FIRST FLOOR
SC-FP1A	SECURITY FLOOR PLAN - FIRST FLOOR - ALTERNATE

1 = ALTERNATE 1

WIRE CHART

SYMBOL	DESCRIPTION	BELDEN	WPW NO.	NETWORK	DIAMETER
B	24 AWG x 4PR.. w/ SOLID JACKETED PLENUM RATED CAT6 -PURPLE BY DATA CONTRACTOR			TBD	0.202
P	18 AWG. - 8 CONDUCTOR SHIELDED - w/ FLEXIBLE JACKETED PLENUM	6306FE			0.259
V	18 AWG x 2 COND. w/ FIRE RATED FLEXIBLE JACKETED PLENUM		60980B		0.142
W	22 AWG x 4 COND. w/ FLEXIBLE JACKETED PLENUM		25241B		0.148
X	22 AWG - 1PR. - STRANDED - JACKETED - PLENUM RATED		25221B		0.110
Y	18 AWG x 2 COND. w/ FLEXIBLE JACKETED PLENUM		25224B		0.148
RR	22 AWG-6 CONDUCTOR-OVERALL SHIELD-JACKETED-PLENUM RATED		253270B		0.182
SS	22 AWG x 2 PAIR w/ OVERALL SHIELDED JACKETED PLENUM		D253651		0.191
CCC	18 AWG x 6 COND w/ OVERALL SHIELDED JACKETED PLENUM		253186B		0.232
HHH	22 AWG-1PR.-STRANDED w/ OVERALL SHIELD-JACKETED-PLENUM RATED		25291B		0.128
WWW	12 AWG - 1PR. - STRANDED - JACKETED - PLENUM RATED		25227		0.221

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MEP Engineer: Peter Basso Associates, 5145 Livernois, Troy, MI 48098, 248.879.5666

Structural Engineer: Desai/Nasr Consulting Engineer, 6765 Daly Rd, West Bloomfield, MI 48322, 248.932.2010

WAYNE STATE UNIVERSITY
Client

Key Plan

SECURITY CONSULTING
26225 SHERWOOD AVE.
WARREN, MI 48091
586-756-8400

ISSUED FOR BID 06-20-2019

Project
SCHOOL OF SOCIAL WORK
5447 Woodward, Detroit, MI

Drawing Title
SECURITY RISER DIAGRAM

WSU Project No: 063-301464

Scale:

Seal:

Signature:

Drawing No:
SC-R1

: Template Version

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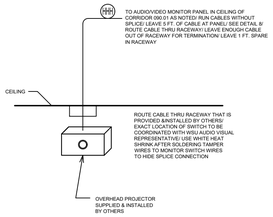
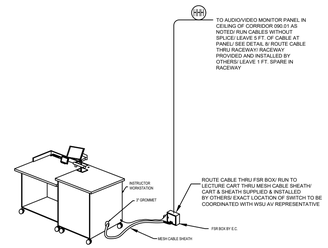


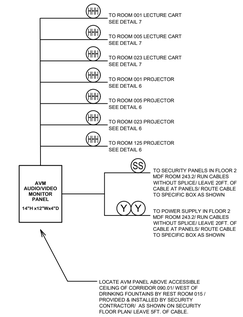
6 A/V OVERHEAD LCD PROJECTOR DETAIL (4 TYP.)

BASEMENT ROOM 001 (SECURITY SET SS-3)
BASEMENT ROOM 005 (SECURITY SET SS-3)
BASEMENT ROOM 023 (SECURITY SET SS-3)
FLOOR 1 LOUNGE 125 (SECURITY SET SS-3)



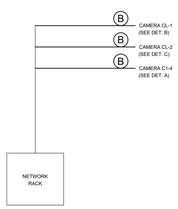
7 LECTURE CARTS-MONITOR PANEL DIFFERENT ROOMS (3 TYP.)

BASEMENT ROOM 001 (SECURITY SET SS-3)
BASEMENT ROOM 005 (SECURITY SET SS-3)
BASEMENT ROOM 023 (SECURITY SET SS-3)



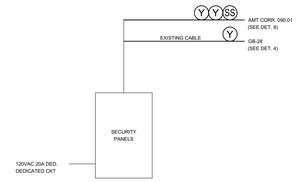
8 BASEMENT AUDIO/VIDEO MONITOR PANEL

BASEMENT CORRIDOR 090.01 (SECURITY SET SS-3)



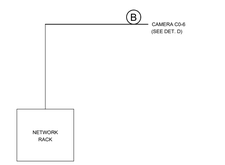
CLOSEST MDF OR IDF ROOM

BASE BID CAMERA RISER



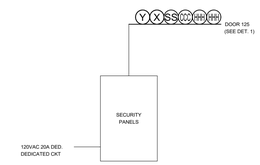
ALARM/ACCESS CONTROL MDF ROOM 243.2

BASE BID DOOR RISER



CLOSEST MDF OR IDF ROOM 1

ALTERNATE #1 CAMERA RISER



ALARM/ACCESS CONTROL MDF ROOM 243.2 1

ALTERNATE #1 DOOR RISER

1 = ALTERNATE 1

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