MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

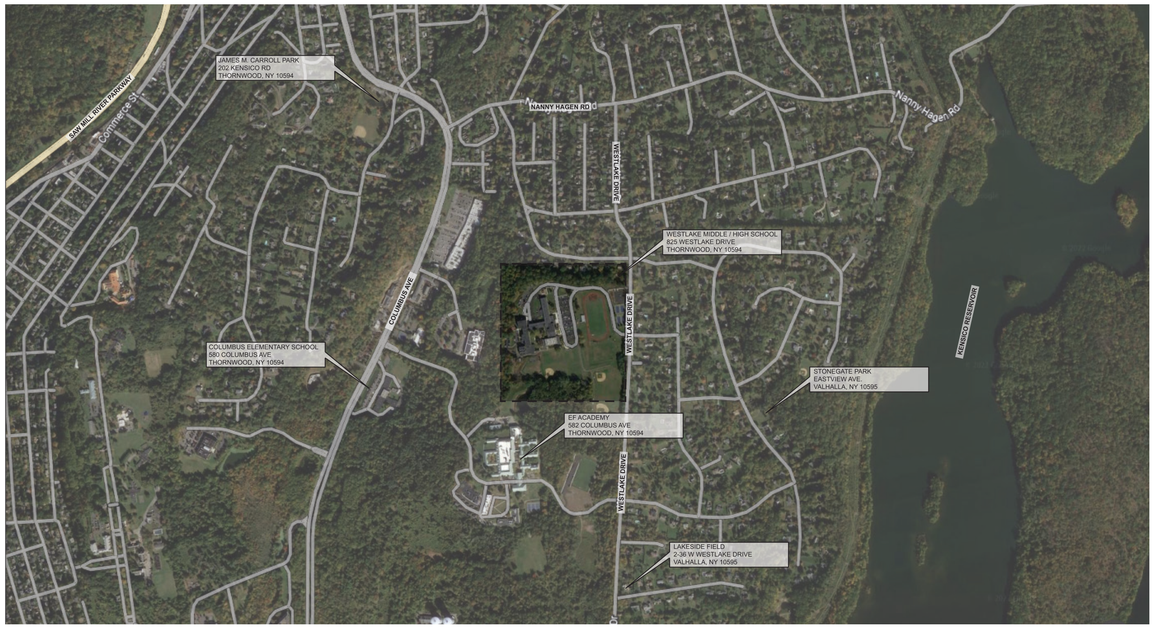
2024 WHS PPS PROJECT

MEMASI PROJECT # 107-2201

WESTLAKE HIGH SCHOOL

825 WESTLAKE DRIVE, THORNWOOD, NY 10594

SED # 66-08-01-06-0-005-025



WESTLAKE MIDDLE / HIGH SCHOOL NTS

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ISSUED FOR BID: 06/25/2024

THE DESIGN OF THIS PROJECT CONFORMS TO APPLICABLE PROVISIONS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE, AND THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

MEMASI

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White Plains, NY 10601
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ABBREVIATIONS

ADD	ADDENDUM
ADMIN	ADMINISTRATIVE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
APPROX	APPROXIMATE
ARCH	ARCHITECT / ARCHITECTURAL
AV	AUDIO VISUAL
BLDG	BUILDING
BOT OR B/	BOTTOM OF
BSMT	BASEMENT
CI	CONTINUOUS INSULATION
CJ	CONTROL / CONSTRUCTION JOINT
CL	CENTERLINE
CLG / CLNG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CSP	CONCRETE SURGACE PREPARATION
DEMO	DEMOLITION
DET	DETAIL
DIA	DIAMETER
DLO	DAYLIGHT OPENING
DN	DOWN
DO	DOOR OPENING
DWG	DRAWING
EC	ELECTRICAL CONTRACT(OR)
ED	EDUCATION
EIFS	EXTERIOR INSULATION FINISH SYSTEM
ELECT	ELECTRIC / ELECTRICAL
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST	EXISTING
EJ	EXPANSION JOINT
ETR	EXISTING TO REMAIN
EXT	EXTERIOR
FD	FRAME DIMENSION
FE	FIRE EXTINGUISHER
FF	FACTORY FINISH
FIN	FINISH
FIN FL	FINISH FLOOR
FIXT	FIXTURE
FLR	FLOOR
FRT	FIRE-RETARDENT-TREATED MATERIAL
FTG	FOOTING
FTR	FIN TUBE RADIATOR
GA	GAUGE
GAL	GALLON
GALV	GALVANIZE(D)
GC	GENERAL CONTRACT(OR)
GND	GROUND
GWB	GYPSUM WALL BOARD
GWBS	GYPSUM WALL BOARD SOFFIT
HC	HANDICAPPED ACCESSIBLE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HT	HEIGHT
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR CONDITIONING
ID	INSIDE DIMENSION
IN	INCH / INCHES
INT	INTERIOR
JAN	JANITOR
JC	JANITOR'S CLOSET
JST	JOIST
JT	JOINT
LAB	LABORATORY
LB	POUND
LIN	LINEAR
LVL	LEVEL
LVT	LUXURY VINYL TILE
MAN	MANUAL
MAS	MASONRY
MAX	MAXIMUM
MC	MECHANICAL CONTRACT(OR)
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFP	MATCHING FILLER PANEL
MFR	MANUFACTURE(R)
MID	MIDDLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
O/HD	OVERHEAD
OPT	OPTIONAL
OZ	OUNCE
PC	PLUMBING CONTRACT(OR)
PERIM	PERIMETER
PLAM	PLASTIC LAMINATE
PLBG	PLUMBING
PLAS	PLASTER
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT(ED)
POLYISO	POLYISOCYANURATE
PPT	PRESSURE PRESERVATIVE TREATED
PR	PAIR
PREP	PREPARATORY
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
RAD	RADIUS
RB	RUBBER / RUBBER WALL BASE
REQD	REQUIRED
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
RW	RESCUE WINDOW
SCH	SCHEDULED
SECT	SECTION
SF	SQUARE FEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL / STRUCTURE
SUSP	SUSPENDED
SAC	SUSPENDED ACOUSTICAL CEILING
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TECH	TECHNOLOGY
TEMP	TEMPORARY
TMPD	TEMPERED
TH	THICK
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TYP	TYPICAL
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
W/	WITH
W/O	WITHOUT
WD	WOOD
WPT	WOOD PRESERVED-TREATED MATERIAL
WT	WEIGHT
YD	YARD

ARCHITECTURAL LEGEND

MATERIAL INDICATIONS

- EARTH
- GRANULAR FILL
- BRICK
- CONCRETE MASONRY UNIT
- CONCRETE
- GROUT
- ROUGH WOOD BLOCKING
- SHIM
- FINISH WOOD
- PLYWOOD
- SHEATHING
- RIGID INSULATION
- BATT INSULATION
- SPRAY FOAM INSULATION
- EPS INSULATION
- STEEL

DIMENSIONING CONVENTIONS

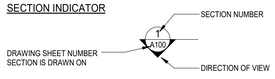
- FACE OF STUD OR CMU
- COLUMN CENTER LINE

SYMBOLS

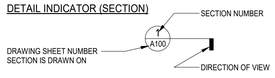
- CLASSROOM / 100 / 000 S.F. — ROOM NAME; ROOM NUMBER; AREA OF ROOM
- A100 — DOOR NUMBER, REFER TO A900 DRAWINGS
- 1 — WINDOW TAG, REFER TO A900 DRAWINGS
- BLT1 — BORROWED LIGHT NUMBER, REFER TO A900 DRAWINGS
- S1 — STOREFRONT / CURTAINWALL NUMBER, REFER TO A900 DRAWINGS
- 1 — COLUMN GRID DESIGNATION
- 1 / M — PARTITION TAG, REFER TO A700 DRAWINGS; ADDITIONAL NOTES FOR PARTITION
- 1 — REVISION NUMBER
- 1 — KEY NOTE, NEW WORK
- D1 — KEY NOTE, DEMOLITION WORK
- +0'-0" — ELEVATION TAG
- HANDICAPPED ACCESSIBLE ELEMENT OR FIXTURE
- WALL FINISH / BASE FINISH / FLOOR FINISH / CEILING FINISH — INTERIOR FINISH TAG, REFER TO AF100 DRAWINGS
- CHANGE IN FINISH MATERIAL

DETAIL INDICATOR LEGEND

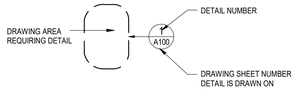
SECTION INDICATOR



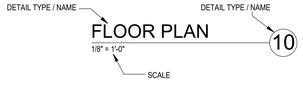
DETAIL INDICATOR (SECTION)



ENLARGED DETAIL INDICATOR

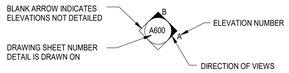


DETAIL TITLE



EXTERIOR ELEVATION INDICATOR

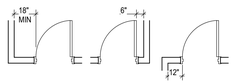
INTERIOR ELEVATION INDICATOR



PLAN GRAPHICS LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXISTING CONSTRUCTION TO BE REMOVED
- NEW CONCRETE MASONRY WALL
- NEW METAL STUD WALL
- NEW BRICK VENEER
- EXISTING DOOR TO REMAIN
- EXISTING DOOR TO BE REMOVED
- NEW DOOR

FINISHED DOOR OPENINGS SHALL BE LOCATED AS INDICATED BELOW U.O.N. DIMENSIONS SHOWN ARE CLEAR DIMENSIONS FROM INSIDE OF FRAME TO WALL FINISH.



GENERAL NOTES

1. DIMENSIONS ARE GIVEN THUS (UNLESS OTHERWISE NOTED)
   A. TO FACE OF MASONRY WALL
   B. TO FACE OF FINISH MATERIAL
   C. TO COLUMN CENTERLINES
   D. TO FINISH FACE OF SOFFIT OR CEILING
   E. FACE OF EXISTING CONSTRUCTION
2. DO NOT SCALE DRAWINGS. IF A DIMENSION IS NOT SHOWN, BRING IT TO THE ATTENTION OF THE ARCHITECT FOR VERIFICATION BEFORE PROCEEDING WITH THE ASSOCIATED WORK.
3. WALLS ON COLUMN LINES ARE CENTERED, UNLESS OTHERWISE NOTED.
4. ALL DIMENSIONS RELATED TO EXISTING CONDITIONS SHALL BE VERIFIED IN FIELD. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK IN THAT AREA.
5. LAYOUT OF TOILET FIXTURES AND ACCESSIBILITY CLEARANCES ARE SHOWN AS CLEAR DIMENSION. CONTRACTORS ARE REQUIRED TO COORDINATE LAYOUTS OF PARTITIONS, UTILITY CONNECTIONS, AND THICKNESS OF FINISHES TO ALLOW THESE CLEAR DIMENSIONS.
6. ALL ELEVATIONS (X'-X") ARE REFERENCED FROM INTERMEDIATE LEVEL ELEVATION
7. ALL WOOD BLOCKING WITHIN ROOFING SYSTEM AND WITHIN 2'-0" OF GRADE SHALL BE PRESSURE TREATED
8. ALL FLOOR PENETRATIONS SHALL BE SMOKE-SEALED AND /OR FIRE STOPPED.
9. ALL EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE FINISHED.
10. PROVIDE PATCH TO MATCH EXISTING FINISHES AT ALL WALL REMOVAL AREAS, COORDINATE WITH DEMOLITION DRAWINGS AND SPECIFICATIONS.

ROOF LEGEND

- RD — ROOF DRAIN, REFER TO PLUMBING DRAWINGS
- SD — SECONDARY DRAIN, REFER TO PLUMBING DRAWINGS
- SC — ROOF SCUPPER
- OV — VENT PIPE, REFER TO PLUMBING DRAWINGS
- ROOF PENETRATIONS, REFER TO MECHANICAL DRAWINGS
- AH — ROOF ACCESS HATCH
- INDICATES DIRECTION OF SLOPE AT 1/4" PER FOOT MINIMUM, UNO
- ROOF LADDER
- EJ — EXPANSION JOINT

CEILING LEGEND

- +X'-X" — CEILING HEIGHT ABOVE FINISHED FLOOR
- GWB OR PLASTER CEILING, REFER TO DETAILS AND ROOM FINISH SCHEDULE
- SUSPENDED ACOUSTICAL PANEL CEILING SYSTEM

ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

- 2'x2' LIGHT FIXTURE
- LINEAR PENDANT LIGHT FIXTURE
- WALL MOUNTED UTILITY LIGHT
- SHOP LIGHT
- RECESSED DOWN LIGHT
- CEILING MOUNTED EXIT SIGN
- WALL MOUNTED EXIT SIGN
- OS — CEILING MOUNTED OCCUPANCY SENSOR
- S — CEILING MOUNTED SMOKE DETECTOR
- H — CEILING MOUNTED HEAT DETECTOR
- S — CEILING MOUNTED PA SPEAKER
- S — CEILING MOUNTED SECURITY J-BOX

MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

- HVAC SUPPLY GRILLE
- HVAC RETURN GRILLE
- HVAC CEILING CASSETTE

CASEWORK NOTES

HEIGHT OF CASEWORK — XX/XX — WIDTH OF CASEWORK
XXXX — CABINET DESIGN SERIES (CDS) NUMBER

WESTLAKE MIDDLE / HIGH SCHOOL

825 WESTLAKE DRIVE, THORNWOOD, NY 10594

SED NO. 66-08-01-06-0-005-025
MEMASI PROJECT NO. 107-2201

ISSUED FOR BID: 06/25/2024

DRAWING LIST

2020 EXISTING BUILDING CODE OF NEW YORK STATE ANALYSIS - CLASSIFICATION OF WORK

EBC 603 EBC 603.1	**ALTERATION - LEVEL 2** SCOPE	LEVEL 2 ALTERATIONS INCLUDE THE RECONFIGURATION OF SPACE [...] OR INSTALLATION OF ANY ADDITIONAL EQUIPMENT.
EBC 1101.1	SCOPE	

2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE

TABLE C301.1 NEW YORK STATE CLIMATE ZONES BY COUNTY

CLIMATE ZONE 4A	WESTCHESTER COUNTY, NY

TABLE C402.1.3OPAQUE THERMAL ENVELOPE INSULATION COMPONENT MINIMUM REQUIREMENTS, R-VALUE METHOD

ROOFS	INSULATION ENTIRELY ABOVE ROOF DECK	R-33 CONTINUOUS INSULATION
WALLS, ABOVE GRADE	METAL FRAMED	R-13 + R-8.5 CONTINUOUS INSULATION
WALLS, ABOVE GRADE	MASS	R-11.2 CONTINUOUS INSULATION
WALLS, BELOW GRADE	MASS	R-7.5 CONTINUOUS INSULATION
SLAB-ON-GRADE FLOORS	UNHEATED SLABS	R-15 FOR 24" BELOW

SEE SPECIFICATIONS AND WALL SECTIONS (A701) FOR MIN. R VALUES FOR THE OPAQUE THERMAL ENVELOPE.

TABLE C402.3 MINIMUM ROOF RELECTANCE AND EMITTANCE

THREE-YEAR-AGED SOLAR REFLECTANCE INDEX OF 55 AND 3-YEAR AGED THERMAL EMITTANCE OF 0.75
THREE-YEAR-AGED SOLAR REFLECTANCE INDEX OF 64

SEE SPECIFICATIONS AND WALL SECTIONS (A701) FOR MIN. SRI.

TABLE C402.4 BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND SHGC REQUIREMENTS

FIXED FENESTRATION	U-FACTOR	0.38
OPERABLE FENESTRATION	U-FACTOR	0.45
ENTRANCE DOORS	U-FACTOR	0.77
SHGC	PF < 0.36	0.36
	0.2 < PF < 0.5	0.43
	PF > 0.5	0.58

PF = PROJECTION FACTOR

SEE SPECIFICATIONS FOR FENESTRATION VALUES COMPLYING WITH 2020 ENERGY CONSERVATION CODE.

2020 BUILDING CODE OF NEW YORK STATE - ANALYSIS CHAPTER 3 - OCCUPANCY CLASSIFICATION AND USE CHAPTER 6 - TYPES OF CONSTRUCTION

BC 302.1	OCCUPANCY CLASSIFICATION	3. EDUCATIONAL (SECTION 305): **GROUP E**
BC 303.1.3	ASSOCIATED WITH GROUP E OCCUPANCY	A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS ASSOCIATED WITH GROUP E OCCUPANCY IS NOT CONSIDERED SEPARATE OCCUPANCY.
BC 305.1	EDUCATIONAL GROUP E	EDUCATIONAL GROUP E OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, BY SIX OR MORE PERSONS AT ANY ONE TIME FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE.
TABLE 601	FIRE-RESISTANCE REQUIREMENTS FOR BUILDING ELEMENTS EXISTING BUILDING	PRIMARY STRUCTURAL FRAME, BEARING WALLS AND PARTITIONS, NONBEARING WALLS AND PARTITIONS, FLOOR CONSTRUCTION, AND ROOF CONSTRUCTION. **TYPE II-B** FIRE-RESISTANCE (HOURS): **0**

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

ARCHITECT
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BARILE GALLAGHER & ASSOCIATES
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PLEASANTVILLE, NY 10570

STRUCTURAL CONSULTANT
REILLY TARANTINO ENGINEERING
1000 PARK BLVD., SUITE 209
MASSAPEQUA PARK, NY 11762

HAZARDOUS MATERIALS CONSULTANT
QUALITY ENVIORNMENTAL SOLUTIONS & TECHNOLOGIES, INC.
1376 ROUTE 9
WAPPINGERS FALLS, NY 12590

LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
629 FIFTH AVE, #204
PELHAM, NY 10803

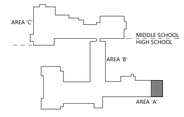
SITE-CIVIL CONSULTANT
THE LA GROUP
40 LONG ALLEY
SARATOGA SPRINGS, NY 12866

SECURITY CONSULTANT
BUILDING TECHNOLOGY CONSULTING
992 BEDFORD STREET
BRIDGEWATER, MA 02324

SEAL

ISSUED FOR BID	06/21/2024
ISSUE	DATE

KEY PLAN



SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

GENERAL INFORMATION

G001

LIFE SAFETY LEGEND

- AREAS OF NO WORK
- RW — RESCUE WINDOW
- EGRESS PATH END / START
- ONE-HOUR RATED PARTITION
- TWO-HOUR RATED PARTITION

2020 BUILDING CODE OF NEW YORK STATE ANALYSIS - CHAPTER 5 GENERAL BUILDING HEIGHTS AND AREAS

TABLE 506.2	ALLOWABLE AREA FACTOR IN SF	OCCUPANCY E (EDUCATIONAL) WITHOUT SPRINKLERS TYPE II B CONSTRUCTION	14,500

BC 506.2.3 SINGLE-OCCUPANCY

THE ALLOWABLE AREA OF A SINGLE-OCCUPANCY BUILDING WITH MORE THAN ONE STORY ABOVE GRADE PLANE SHALL BE DETERMINED IN ACCORDANCE WITH EQUATION 5-2:

EQ. 5-2 Aa = [At + (NS x Lf)] Sa
Aa = [14,500 sf + (14,500 sf x 0.748)] x 2
Aa = 50,692 SF (PER BUILDING) ; 25,346 SF (MAX. AREA PER FLOOR)

BC 506.3 FRONTAGE INCREASE FACTOR INCREASE BASED ON FRONTAGE

EVERY BUILDING SHALL ADJOIN OR HAVE ACCESS TO A PUBLIC WAY TO RECEIVE AN AREA

BC 506.3.2 MINIMUM PERCENTAGE OF PERIMETER

TO QUALIFY FOR AN AREA FACTOR INCREASE BASED ON FRONTAGE, A BUILDING SHALL HAVE NOT LESS THAN 25 PERCENT OF ITS PERIMETER ON A PUBLIC WAY OR OPEN SPACE.

BC 506.3.2 MINIMUM FRONTAGE DISTANCE

TO QUALIFY FOR AN AREA INCREASE BASED ON FRONTAGE, THE PUBLIC WAY OR OPEN SPACE [...] SHALL HAVE A MINIMUM DISTANCE OF 20 FEET MEASURED AT RIGHT ANGLES FROM THE BUILDING FACE TO ANY OF THE FOLLOWING:
1. THE CLOSEST INTERIOR LOT LINE
3. THE EXTERIOR FACE OF AN ADJACENT BUILDING ON THE SAME PROPERTY. [...] WHERE THE VALUE OF W (WIDTH WEIGHTED AVERAGE) VARIES ALONG THE PERIMETER OF THE BUILDING, THE CALCULATION PREFORMED IN ACCORDANCE WITH EQUATION 5-5 SHALL BE BASED ON THE WEIGHTED AVERAGE CALCULATED IN ACCORDANCE TO EQUATION 5-4:

EQ. 5-4 W = (L1 x w1 + L2 x w2 + LN x wn) / F
W = 29.9

BC 506.3.3 AMOUNT OF INCREASE WITH EQUATION 5-5:

THE AREA FACTOR INCREASE BASED ON FRONTAGE SHALL BE DETERMINED IN ACCORDANCE

EQ. 5-5 If = [F / P - 0.25] W / 30
If = [1,859 / 1858 - 0.25] 29.9 /30
If = 0.748

EXISTING BASEMENT LEVEL AREA	42,287 sf
EXISTING FIRST LEVEL AREA	110,039 sf
EXISTING SECOND LEVEL AREA	61,602 sf

MAXIMUM ALLOWABLE AREA IN ACCORDANCE TO BC 506.2.3 **Aa = 25,346 sf**

NO LEVEL IN THE MIDDLE SCHOOL / HIGH SCHOOL WILL BE OVER THE MAXIMUM ALLOWABLE AREA IN ACCORDANCE TO NEW YORK STATE BUILDING CODE BC 506.2.3.

2020 BUILDING CODE OF NEW YORK STATE ANALYSIS - CHAPTER 10 MEANS OF EGRESS

BC 1004.1	DESIGN OCCUPANT LOAD	IN DETERMINING MEANS OF EGRESS, THE NUMBER OF OCCUPANTS FOR WHOM MEANS OF EGRESS FACILITIES ARE PROVIDED SHALL BE DETERMINED IN ACCORDANCE WITH THIS SECTION.		
TABLE1004.5	MAX. FLOOR AREA PER OCC.	ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM		300 SF. GROSS / OCC
		ASSEMBLY	WITHOUT FIXED SEATS UNCONCENTRATED WITH FIXED SEATS (1004.4) INSTALLED SEATS	15 SF. NET / OCC.
		BUSINESS AREAS		150 SF. GROSS / OCC.
		EDUCATIONAL SHOPS AND OTHER VOCATIONAL ROOM AREAS		50 SF. NET / OCC.
		STAGES AND PLATFORMS		15 SF. NET / OCC.
BC 1004.7		OUTDOOR AREAS YARD, PATIOS, OCCUPIED ROOFS, COURTS AND SIMILAR OUTDOOR AREAS ACCESSIBLE TO AND USABLE BY THE BUILDING OCCUPANTS SHALL BE PROVIDED .MEANS OF EGRESS AS REQUIRED BY THIS CHAPTER. THE OCCUPANT LOAD SHALL BE ASSIGNED BY THE BUILDING OFFICIAL.		
BC 1005.3.1		STAIRWAYS THE CAPACITY, IN INCHES, OF MEANS OF EGRESS STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH STAIRWAY BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.3 INCH PER OCCUPANT.		
BC 1005.3.2		OTHER EGRESS COMPONENTS THE CAPACITY, IN INCHES, OF MEANS OF EGRESS COMPONENTS OTHER THAN STAIRWAYS SHALL BE CALCULATED BY MULTIPLYING THE OCCUPANT LOAD SERVED BY SUCH COMPONENT BY A MEANS OF EGRESS CAPACITY FACTOR OF 0.2 INCH PER OCCUPANT.		
TABLE 1006.2.1	MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE	OCCUPANCY E (EDUCATIONAL)	WITHOUT SPRINKLER SYSTEM	75 FEET

TABLE 1006.3.1 MIN.NUMBER OF EXITS OR ACCESS TO EXITS PER STORY	OCCUPANT LOAD PER STORY	MIN. NUMBER OF EXITS OR ACCESS TO EXITS
	1-500	2
	501-1,000	3
	> 1,000	4

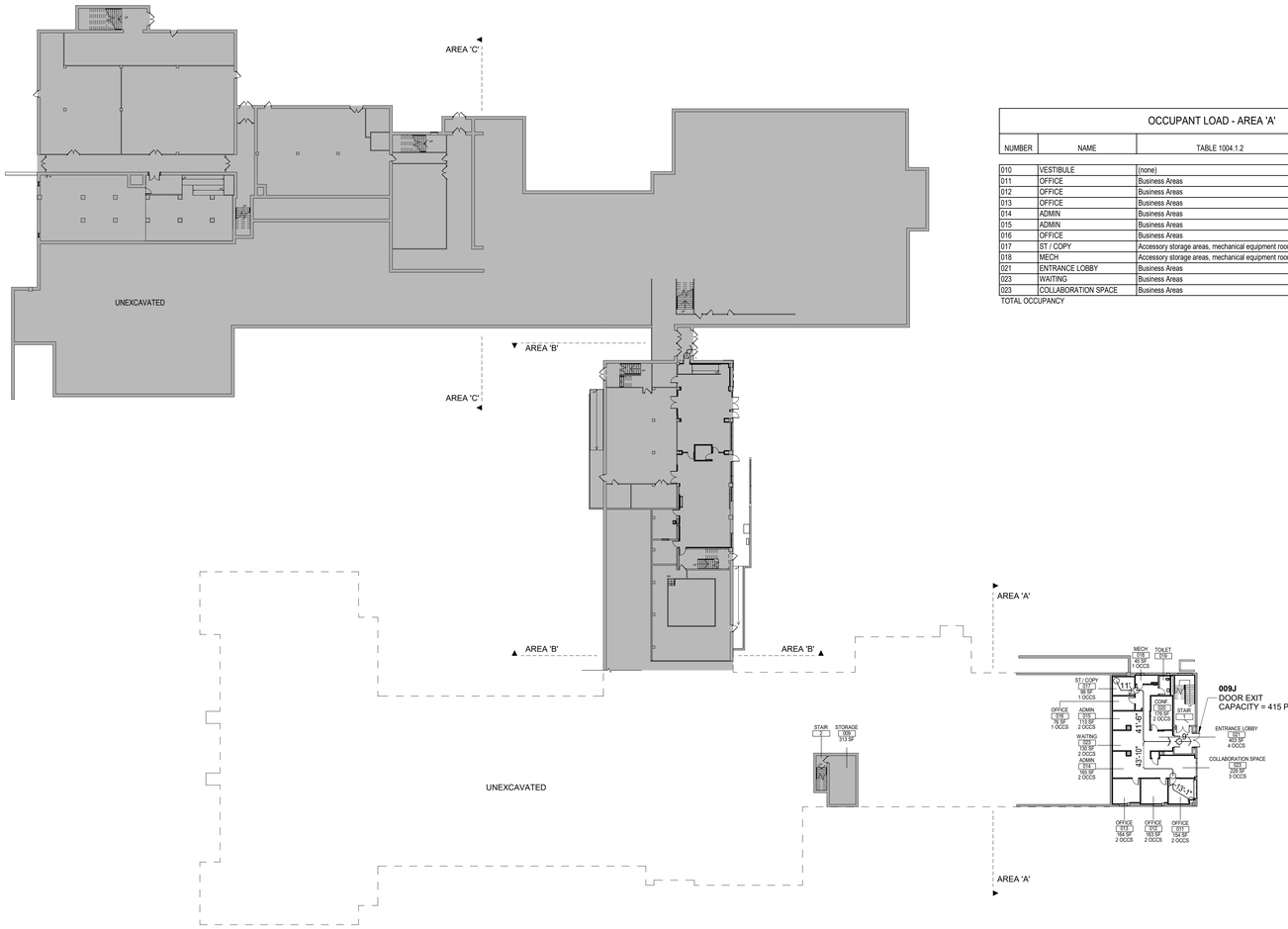
BC 1007.1.1	TWO EXITS OR EXIT ACCESS DOORWAYS	WHERE TWO EXITS, EXIT ACCESS DOORWAYS, EXIT ACCESS STAIRWAYS OR RAMPS [...] THEY SHALL BE PLACED A DISTANCE APART EQUAL TO NOT LESS THAN ONE-HALF OF THE LENGTH OF THE MAXIMUM OVERALL DIAGONAL DIMENSION OF THE BUILDING OR AREA TO BE SERVED IN A STRAIGHT LINE BETWEEN THEM.
BC 1007.1.2	THREE OR MORE EXITS OR EXIT ACCESS DOORWAYS	WHERE ACCESS TO THREE OR MORE EXITS IS REQUIRED [...] ADDITIONAL REQUIRED EXIT OR ACCESS DOORWAYS SHALL BE ARRANGED A REASONABLE DISTANCE APART SO THAT ONE BECOMES BLOCKED THE OTHERS WILL BE AVAILABLE.
BC 1008.1	MEANS OF EGRESS ILLUMINATION	ILLUMINATION SHALL BE PROVIDED IN THE MEANS OF EGRESS IN ACCORDANCE TO SECTION 1008.2 UNDER EMERGENCY POWER, MEANS OF EGRESS ILLUMINATION SHALL COMPLY WITH SECTION 1008.3.
BC 1009.1	ACCESSIBLE MEANS OF EGRESS REQUIRED	[...] WHERE MORE THAN ONE MEANS OF EGRESS ARE REQUIRED [...] EACH ACCESSIBLE PORTION OF THE SPACE SHALL BE SERVED BY NOT LESS THAN TWO ACCESSIBLE MEANS OF EGRESS. EXCEPTION: ACCESSIBLE MEANS OF EGRESS ARE NOT REQUIRED TO BE PROVIDED IN EXISTING BUILDINGS.
TABLE 1017.2	EXIT ACCESS TRAVEL DISTANCE	OCCUPANCY E (EDUCATIONAL) WITHOUT SPRINKLER SYSTEM	200 FEET
TABLE 1020.1	CORRIDOR FIRE-RESISTANCE RATING	OCCUPANCY E (EDUCATIONAL) WITHOUT SPRINKLER SYSTEM	1 (HOUR)
BC 1020.4	DEAD ENDS	WHERE MORE THAN ONE EXIT OR EXIT ACCESS DOORWAY IS REQUIRED, THE EXIT ACCESS SHALL BE ARRANGED SUCH THAT THERE ARE NO DEAD ENDS IN CORRIDORS WITH MORE THAN 20 FEET IN LENGTH.		
BC 1028.1	EXIT DISCHARGE	EXITS SHALL DISCHARGE DIRECTLY TO THE EXTERIOR OF THE BUILDING. THE EXIT DISCHARGE SHALL BE AT GRADE OR SHALL PROVIDE A DIRECT PATH OF EGRESS TRAVEL TO GRADE. THE EXIT DISCHARGE SHALL NOT REENTER THE BUILDING.		

TOTAL OCCUPANT LOAD AND EXIT CAPACITY

STORAGE

DOOR #	EXIT CAPACITY	STAIR #	EXIT CAPACITY	TOTAL EXIT CAPACITY	TOTAL OCCUPANT LOAD PER STORY
008	180	N/A	N/A	180	200 OCCUPANTS
008A	180	N/A	N/A	180	SEE LS101 FOR OCCUPANCY SUMMARY
008B					
008C					
008D	180	N/A	N/A	180	MINIMUM NUMBER OF EXITS REQUIRED =2
			TOTAL EXIT CAPACITY FROM STORY1440		**> 200 (OCCS.) COMPLIES WITH 2020 NYSBC**

NOTES:
1. EXITS FROM CLASSROOMS WERE NOT COMPUTED FOR THE OVERALL EXIT CAPACITY FROM ANY STORY BECAUSE 'EGRESS FROM A ROOM OR SPACE SHALL NOT PASS THROUGH ADJOINING OR INTERVENING ROOMS OR AREAS' [...]' (NYSBC 2020; 1016.2).



OCCUPANT LOAD - AREA 'A'

NUMBER	NAME	TABLE 1004.1.2	AREA	SF PER PERSON	MAX OCCUPANCY
010	VESTIBULE	(none)	114 SF		
011	OFFICE	Business Areas	154 SF	100	2
012	OFFICE	Business Areas	163 SF	100	2
013	OFFICE	Business Areas	164 SF	100	2
014	ADMIN	Business Areas	165 SF	100	2
015	ADMIN	Business Areas	113 SF	100	2
016	OFFICE	Business Areas	76 SF	100	1
017	ST / COPY	Accessory storage areas, mechanical equipment room	99 SF	300	1
018	MECH	Accessory storage areas, mechanical equipment room	45 SF	300	1
021	ENTRANCE LOBBY	Business Areas	403 SF	100	4
023	WAITING	Business Areas	130 SF	100	2
023	COLLABORATION SPACE	Business Areas	228 SF	100	3
TOTAL OCCUPANCY					22

LIFE SAFETY PLAN - BASEMENT
1" = 30'-0"

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

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SEAL

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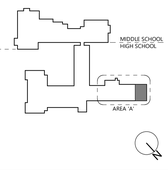
ISSUE	DATE

KEY PLAN



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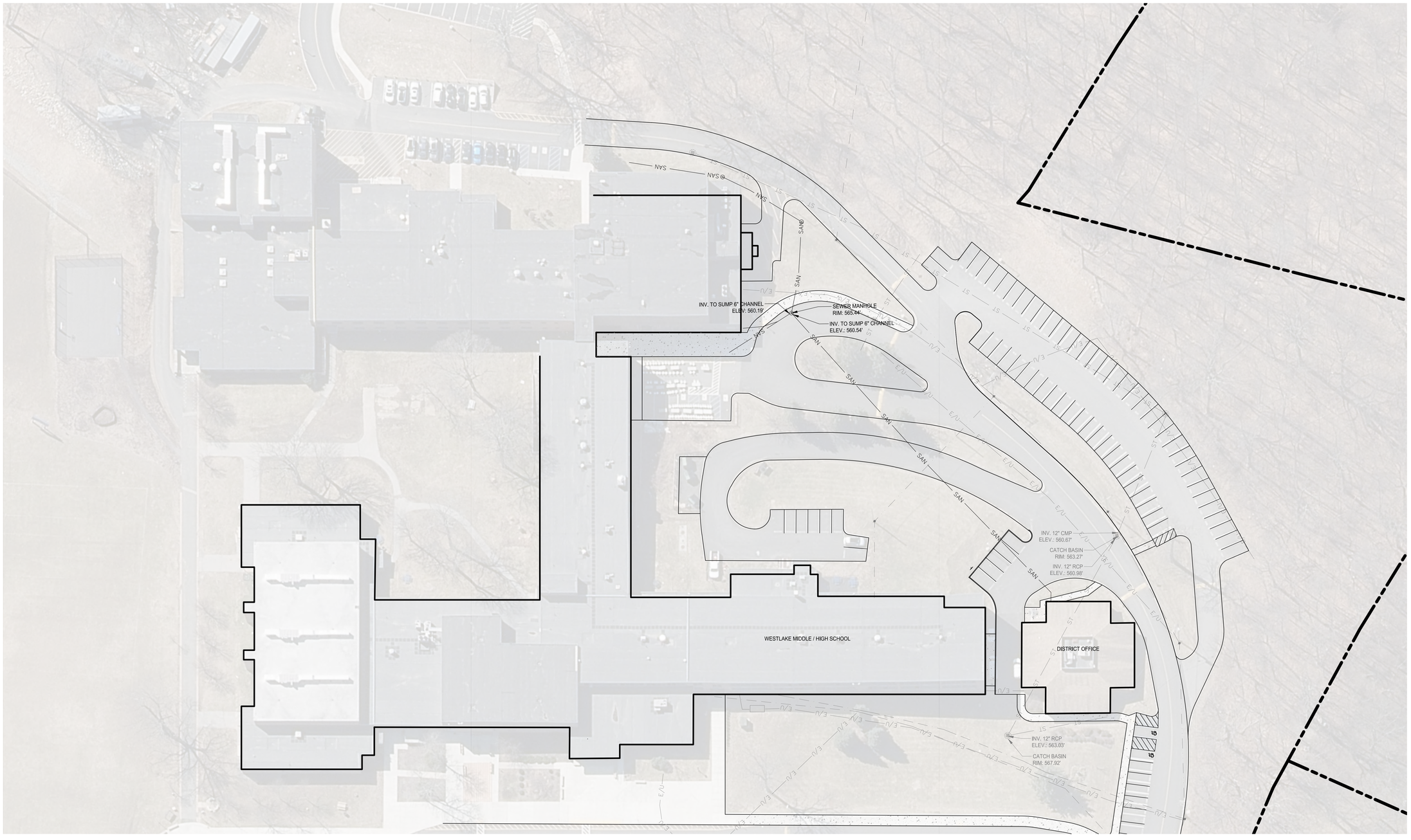
LIFE SAFETY PLAN - OVERALL

LS100



GENERAL NOTES

1. EXISTING CONDITIONS ARE TAKEN FROM AERIAL PHOTOGRAPHY AND SURVEY PLAN ENTITLED "UTILITY SURVEY OF PROPERTY OF WESTLAKE HIGH SCHOOL & MIDDLE SCHOOL", DATED MARCH 13, 2017, AS PREPARED BY TERRY BERGENDORFF COLLINS. HORIZONTAL DATUM IS NAD83 AND VERTICAL DATUM IS NAVD88.
2. PRIOR TO COMMENCING ANY EXCAVATION WORK, THE CONTRACTOR SHALL CONTACT U.F.P.O. (1-800-962-7962) AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY HAVING JURISDICTION TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY COSTS INCURRED BY THE CONTRACTOR DUE TO FAILURE TO CONTACT THE PROPER AUTHORITIES SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
3. THE LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE DIAGRAMMATIC ONLY. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.). EXCAVATION REQUIRED WITHIN PROXIMITY OF UTILITY LINES SHALL BE DONE BY HAND. ANY DAMAGE AND INCURRED COSTS DUE TO FAILURE OF THE CONTRACTOR TO CONTACT THE PROPER AUTHORITIES SHALL BE BORNE BY THE CONTRACTOR.
4. THE GENERAL CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS IN THE FIELD AND REPORT ANY DISCREPANCY BETWEEN THE PLANS AND THE ACTUAL FIELD CONDITIONS TO THE OWNERS REPRESENTATIVE.
5. LIMIT OF WORK LINE IS NOTED ON DRAWINGS. CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL MEET LINE AND GRADE OF EXISTING CONDITIONS AT LIMIT OF WORK LINE.
6. THE CONTRACTOR SHALL ESTABLISH PERMANENT BENCH MARKS. MAINTAIN ALL ESTABLISHED BOUNDS AND BENCH MARKS AND REPLACE AS DIRECTED ANY WHICH ARE DESTROYED OR DISTURBED.
7. CONTRACTOR SHALL EMPLOY SPECIAL CARE IN SCHEDULING CONSTRUCTION SO AS TO MAINTAIN EXISTING VEHICULAR TRAFFIC PATTERNS, AND MINIMIZE DISRUPTION TO SURROUNDING PEDESTRIAN TRAFFIC. CONTRACTOR SHALL EMPLOY SPECIAL CARE TO PROTECT SAFETY OF PEDESTRIANS INSIDE AND OUTSIDE OF THE LIMIT OF WORK LINE.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL REQUIRED PERMITS FROM ALL JURISDICTIONS AFFECTED BY THIS WORK ARE IN PLACE PRIOR TO CONSTRUCTION. FOR PERMITS ALREADY ISSUED, CONTRACTOR SHALL OBTAIN COPIES OF PERMITS AND STRICTLY ADHERE TO PERMIT CONDITIONS. PERMITS THAT ARE OUTSTANDING SHALL BE SECURED BY THE CONTRACTOR AND COORDINATED WITH THE OWNER'S REPRESENTATIVE.
9. ALL ALTERATIONS TO THESE DRAWINGS MADE IN THE FIELD DURING CONSTRUCTION SHALL BE RECORDED BY THE CONTRACTOR ON "AS-BUILT DRAWINGS," AS SPECIFIED.
10. STORAGE AREAS FOR THE GENERAL CONTRACTOR'S EQUIPMENT AND MATERIALS SHALL BE LOCATED WITHIN THE LIMITS OF WORK AS SHOWN ON THE PLANS OR AS APPROVED BY THE OWNER'S REPRESENTATIVE.
11. SHOULD ANYTHING BE OMITTED FROM THE PLANS WHICH IS NECESSARY FOR A COMPLETE UNDERSTANDING OF THE WORK, OR SHALL ANY ERROR APPEAR IN THE VARIOUS INSTRUMENTS FURNISHED OR IN THE WORK BY OTHER CONTRACTORS AFFECTING THE WORK COVERED HEREBY, THE CONTRACTOR SHALL AND WILL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE, AND IN THE EVENT OF THE CONTRACTOR'S FAILURE TO DO SO, HE SHALL AND WILL MAKE GOOD OF ANY DAMAGE OR DEFECT IN HIS WORK CAUSED THEREBY.
12. CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF ALL EXISTING INFRASTRUCTURE FOR THE DURATION OF CONSTRUCTION. CONTRACTOR SHALL PROTECT AND SUSTAIN IN NORMAL SERVICE ALL EXISTING UTILITIES, STRUCTURES, EQUIPMENT, ROADWAYS AND DRIVEWAYS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE THERE EFFORTS OF DEMOLITION, REMOVALS AND OR RELOCATION WORK WITH ALL TRADES, IF APPLICABLE. CONSULT ALL DRAWINGS AND SPECIFICATIONS FOR COORDINATION REQUIREMENTS BEFORE COMMENCING CONSTRUCTION.
14. CONTRACTOR TO COMPLY WITH ALL OSHA AND OTHER STATE AND LOCAL SAFETY REQUIREMENTS DURING CONSTRUCTION.

LEGEND

- PROPERTY LINE
- E/U — EXISTING UNDERGROUND ELECTRIC LINE
- SAN — EXISTING SANITARY SEWER LINE
- ST — EXISTING STORM SEWER LINE
- EXISTING OVERHEAD WIRES
- 850 — EXISTING CONTOUR
- EXISTING CATCH BASIN

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WLHS PPS PROJECT

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40 LONG ALLEY
SARATOGA SPRINGS, NY 12866

SEAL

ISSUE	DATE
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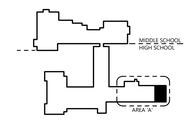
KEY PLAN



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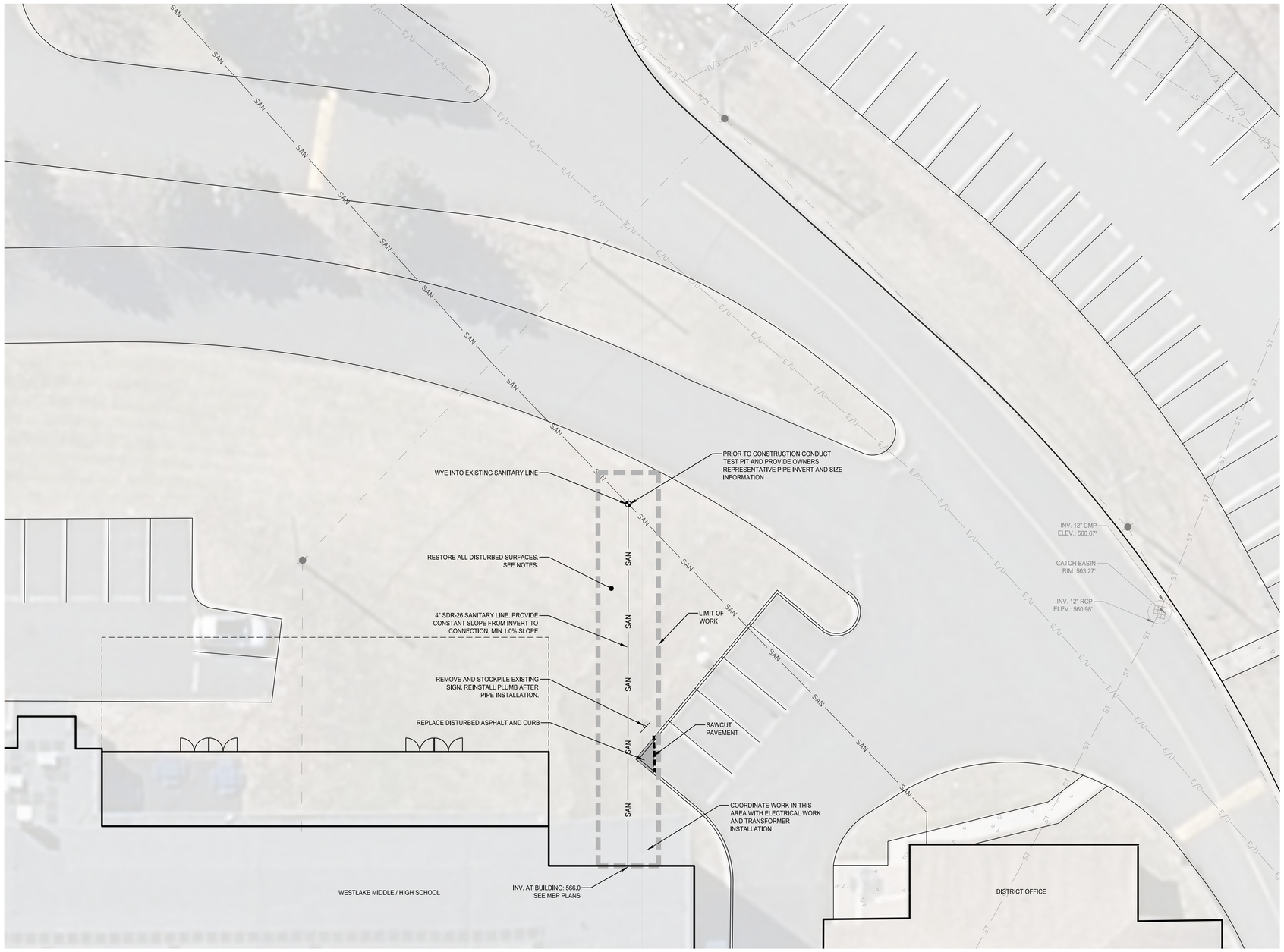
EXISTING SITE CONDITIONS

C-100



1 SITE LAYOUT AND RESTORATION

Scale: 1:10

Scale: 1" = 10'

PROTECTION NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE INSIDE AND OUTSIDE THE LIMIT OF WORK DUE TO THEIR CONTRACT OPERATIONS.
2. CONTRACTOR SHALL PROTECT AND SUSTAIN IN NORMAL SERVICE ALL EXISTING UTILITIES, STRUCTURES, EQUIPMENT, ROADWAYS AND DRIVEWAYS.
3. CONTRACTOR SHALL MAINTAIN NECESSARY TRAFFIC CONTROL DEVICES, DRUMS, DELINEATORS, SIGNS, FENCES, AND BARRICADES IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL MUTCD WITH NYS SUPPLEMENT TO PROPERLY PROTECT WORK, EQUIPMENT, PERSONS, AND PROPERTY FROM DAMAGE.
4. AT ALL LOCATIONS WHERE EXISTING PAVEMENT ABUTS NEW CONSTRUCTION, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAW CUT TO A CLEAN, SMOOTH AND SHARP EDGE AND PROTECTED UNTIL ABUTTING MATERIALS ARE INSTALLED.

REMOVALS NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE OWNER'S REPRESENTATIVE ON ALL MATERIALS TO BE REMOVED AND RECYCLED/DISPOSED OF OFF SITE. ALL HANDLING OF MATERIALS TO BE REMOVED, RECYCLED, OR DISPOSED OF MUST BE DONE SO IN A SAFE, LEGAL MANNER, IN ACCORDANCE WITH ALL LOCAL, COUNTY, STATE, FEDERAL AND ANY OTHER APPLICABLE REGULATIONS.
2. EXISTING ITEMS INDICATED TO BE SALVAGED OR STOCKPILED SHALL BE CAREFULLY REMOVED AND STORED AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
3. TREE, SHRUB AND VEGETATION REMOVAL SHALL INCLUDE THE FILLING, CUTTING, GRUBBING OUT OF ENTIRE ROOT SYSTEM AND SATISFACTORY OFF-SITE DISPOSAL OF ALL TREES, SHRUBS, STUMPS, VEGETATIVE AND EXTRANEOUS DEBRIS PRODUCED THROUGH THE REMOVAL OPERATIONS. FELL TREES IN SUCH A WAY AS TO NOT DAMAGE ADJACENT BUILDINGS OR OTHER TREES TO BE SAVED.

UTILITY NOTES:

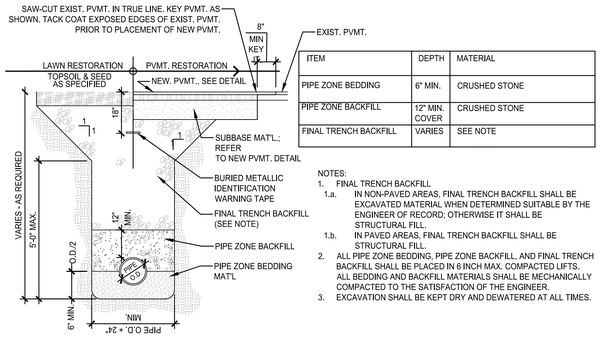
1. THE CONTRACTOR SHALL CONTACT U.F.P.O. (1-800-962-7962) AND THE PROPER LOCAL AUTHORITIES OR RESPECTIVE UTILITY COMPANY HAVING JURISDICTION TO CONFIRM THE LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. ANY COSTS INCURRED BY THE CONTRACTOR DUE TO FAILURE TO CONTACT THE PROPER AUTHORITIES SHALL BECOME THE RESPONSIBILITY OF THE CONTRACTOR.
2. CONTRACTOR SHALL COORDINATE ALL REQUIRED UTILITY INSPECTIONS BY THE AUTHORITY HAVING JURISDICTION IN ACCORDANCE WITH THEIR RESPECTIVE REQUIREMENTS.
3. LOCATION OF UTILITY CONNECTIONS AT BUILDING TO BE VERIFIED BASED ON FINAL BUILDING PIPE PENETRATION LOCATION.
4. ALL UTILITY INSTALLATIONS SHALL BE IN ACCORDANCE WITH ALL REGULATORY, LOCAL MUNICIPAL AND BUILDING CODE REQUIREMENTS.
5. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE DIAGRAMMATIC FOR INFORMATION ONLY, AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ALL UTILITIES MAY NOT BE SHOWN. CONTRACTOR SHALL COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (WALLS, FENCE, FOOTINGS, TREE ROOTBALLS, PROPOSED LIGHTING FOOTINGS, ETC.) AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE OWNER'S REPRESENTATIVE. ANY DAMAGE AND INCURRED COSTS DUE TO FAILURE OF THE CONTRACTOR TO VERIFY UTILITY LOCATIONS SHALL BE BORNE BY THE CONTRACTOR.
6. EXCAVATION REQUIRED WITHIN PROXIMITY OF UTILITY LINES SHALL BE DONE BY HAND.
7. CONTRACTOR SHALL PROTECT AND SUSTAIN IN NORMAL SERVICE ALL EXISTING UTILITIES, STRUCTURES, EQUIPMENT ROADWAYS AND DRIVEWAYS FOR THE DURATION OF CONSTRUCTION.

LAWN RESTORATION NOTES:

1. RESTORE ALL DISTURBED LAWN AREAS WITH 6" TOPSOIL AND SEED MIX.
2. TOPSOIL SHALL MEET NYSDOT REQUIREMENTS. EXISTING EXCAVATED TOPSOIL MAY BE USED IF APPROVED BY OWNER'S REPRESENTATIVE.
3. SEED MIX SHALL BE "DROUGHT AND WEAR SUPREME MIX" BY PREFERRED SEED (877.417-7333), OR APPROVED EQUAL MIX SHALL BE AS FOLLOWS:
   A. 40% MILLENNIUM TALL FESCUE
   B. 40% TURF GEM TALL FESCUE BLEND
   C. 10% BROOKLAWN KENTUCKY BLUEGRASS
   D. 10% PIZZAZZ PERENNIAL RYEGRASS
4. PROPOSED EQUIVALENT SHALL BE SUBMITTED TO OWNER'S REPRESENTATIVE FOR APPROVAL.
5. SEED AT A RATE OF 8 LBS / 1000 SF, OR AS RECOMMENDED BY MANUFACTURER, WHICHEVER IS GREATER.
6. TOP DRESS WITH STARTER FERTILIZER AND COVER WITH STRAW MULCH.
7. WATER AS REQUIRED TO ESTABLISH THICK, CONSISTENT LAWN WITH NO BARE SPOTS GREATER THAN 5" X 5" SQ.

LEGEND

- PROPERTY LINE
- LIMIT OF WORK
- E/U — EXISTING UNDERGROUND ELECTRIC LINE
- SAN — EXISTING SANITARY SEWER LINE
- SAN — PROPOSED SANITARY SEWER LINE
- ST — EXISTING STORM SEWER LINE
- EXISTING OVERHEAD WIRES
- EXISTING CATCH BASIN
- SAWCUT
- PROPOSED ASPHALT PAVEMENT

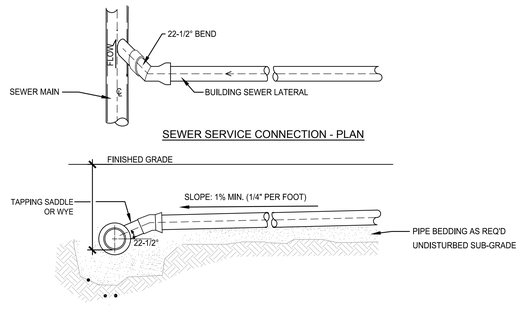


ITEM	DEPTH	MATERIAL
PIPE ZONE BEDDING	6" MIN.	CRUSHED STONE
PIPE ZONE BACKFILL	12" MIN. COVER	CRUSHED STONE
FINAL TRENCH BACKFILL	VARIES	SEE NOTE

NOTES:
1. FINAL TRENCH BACKFILL
   1.a. IN NON-PAVED AREAS, FINAL TRENCH BACKFILL SHALL BE EXCAVATED MATERIAL WHEN DETERMINED SUITABLE BY THE ENGINEER OF RECORD; OTHERWISE IT SHALL BE STRUCTURAL FILL.
   1.b. IN PAVED AREAS, FINAL TRENCH BACKFILL SHALL BE STRUCTURAL FILL.
2. ALL PIPE ZONE BEDDING, PIPE ZONE BACKFILL, AND FINAL TRENCH BACKFILL SHALL BE PLACED IN 6 INCH MAX. COMPACTED LIFTS. ALL BEDDING AND BACKFILL MATERIALS SHALL BE MECHANICALLY COMPACTED TO THE SATISFACTION OF THE ENGINEER.
3. EXCAVATION SHALL BE KEPT DRY AND DEWATERED AT ALL TIMES.

2 PIPE TRENCH

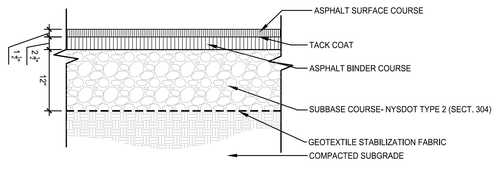
Scale: NTS



SEWER SERVICE CONNECTION - PLAN

3 SANITARY SEWER CONNECTION

Scale: NTS



4 ASPHALT PAVEMENT

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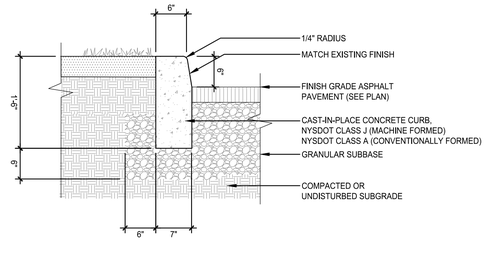

5 CONCRETE CURB

Scale: NTS

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WLHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

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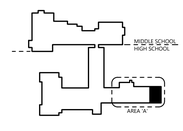

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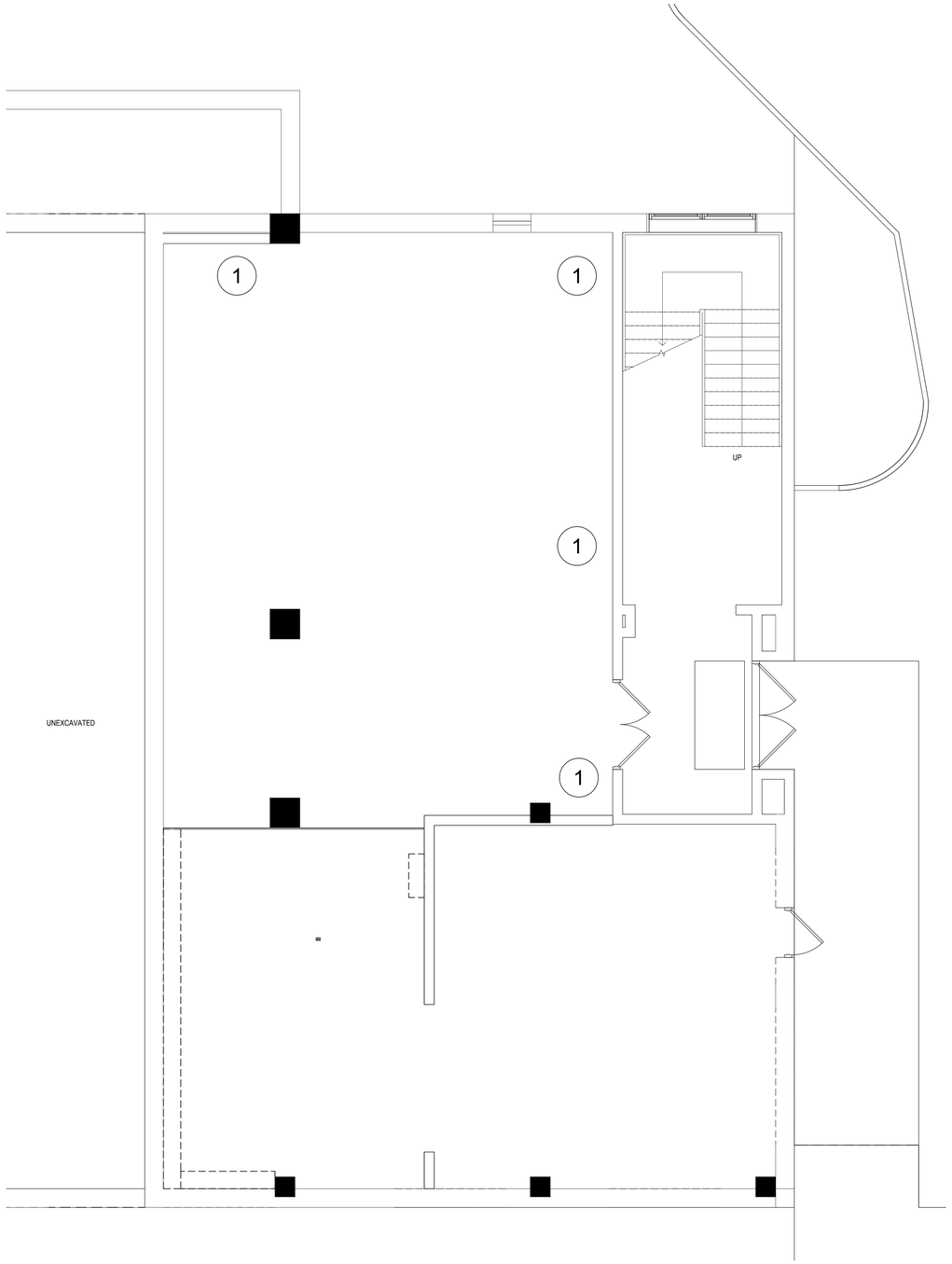
SITE UTILITY PLAN

C-200



THEATRE / STORAGE AREA ABATEMENT PLAN

NOT TO SCALE

ASBESTOS ABATEMENT NOTES

1. ASBESTOS ABATEMENT CONTRACTOR IS RESPONSIBLE FOR TOTAL AND COMPLETE REMOVAL AND DISPOSAL OF NINETY (90) ASBESTOS CONTAINING (ACM) MUDDED JOINT PIPE ELBOWS.

REFER TO SPECIFICATION SECTION 028200 - SECTION 3.17 FOR A DESCRIPTION OF THE WORK.

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2022 WMS MAKERSPACE AND PPS PROJECT

PHASE 1

WESTLAKE MIDDLE / HIGH SCHOOL

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QuES&T
Quality Environmental Solutions & Technologies, Inc.

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KEY PLAN

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WESTLAKE HS/MS THEATRE STORAGE MAINTENANCE GARAGE

ASB102

DEMO NOTES

A. CONTRACTOR SHALL PERFORM ALL OPERATIONS OF DEMOLITION AND ANY REMOVALS INDICATED ON THE DRAWINGS AS MAY BE REQUIRED TO FACILITATE NEW WORK. ALL DEMOLITION WORK SHALL BE DONE CAREFULLY, NEATLY IN A SYSTEMATIC MANNER.

B. ALL DEMOLITION WORK SHALL BE COORDINATED WITH ASBESTOS, MEP AND ANY STRUCTURAL DEMOLITION REQUIREMENTS. CONTRACTOR SHALL ADHERE TO ALL FEDERAL AND STATE LEAD BASED PAINT REMOVAL REQUIREMENTS AS OUTLINED IN THE PROJECT SPECS AND CONTRACT DOCUMENTS. THE CONTRACTOR IS TO PROVIDE ALL ABATEMENT WASTE MANIFESTS, PRE AND POST DEMOLITION CLEAN UP TEST RESULTS AND ANY LEAD SPECIALIST CERTIFICATION CARDS AS REQUIRED IN A TIMELY MANNER.

C. ALL EXISTING SURFACES, EQUIPMENT AND OWNER ITEMS AND/OR FURNITURE SCHEDULED TO REMAIN SHALL BE FULLY PROTECTED FROM DAMAGE. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGES AND SHALL MAKE REPAIRS OR PROVIDE REPLACEMENTS AS MAY BE REQUIRED AT NO ADDITIONAL COST TO THE OWNER, PROMPTLY.

D. ANY FIXTURES, APPLIANCES, HARDWARE, DOORS OR CASINGS THAT ARE SCHEDULED TO BE SALVAGED MUST BE REMOVED FROM THE SITE PRIOR TO THE START OF DEMOLITION. COORDINATE STORAGE REQUIREMENTS WITH BUILDING (SCHOOL DISTRICT)

E. ANY DISCREPANCIES DISCOVERED DURING DEMOLITION FROM EXISTING CONDITIONS DEPICTED ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER OF RECORD BEFORE ANY WORK CAN PROCEED. SEE DEMO NOTE "X" FOR DETAILED INFORMATION.

F. UNLESS OTHERWISE INDICATED IN THE DRAWINGS NO STRUCTURAL MEMBERS SHALL BE REMOVED UNLESS PORTIONS AFFECTED ARE ADEQUATELY SUPPORTED BY EITHER TEMPORARY SHORING OR NEW STRUCTURAL ELEMENTS AS REQUIRED TO PROTECT THE INTEGRITY AND SUPPORT OF THE EXISTING STRUCTURE. REFER TO STRUCTURAL DEMOLITION DRAWINGS FOR MORE INFORMATION. CHANNELING OF FLOOR SLABS OR EXISTING STRUCTURAL WALLS IS GENERALLY PROHIBITED UNLESS OTHERWISE NOTED.

G. COORDINATE NEW MASONRY OPENINGS AS REQUIRED TO PROVIDE STEEL LINTELS. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION.

H. THE CONTRACTOR SHALL PROVIDE ADEQUATE WEATHER PROTECTION FOR THE BUILDING AND ITS CONTENTS DURING THE ENTIRE COURSE OF THE WORK. ALL OPENINGS IN ANY WALL, ROOF, FLOOR OR CEILING SHALL BE PROTECTED FROM ANY FORM OF WEATHER OR WATER PENETRATION. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGES AND SHALL MAKE REQUIRED REPAIRS PROMPTLY AT NO ADDITIONAL COST TO THE OWNER, PROMPTLY.

I. PROPERTY IS TO BE KEPT SECURE AT ALL TIMES.

J. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING PARTITION FIRE RATINGS THROUGHOUT THE DURATION OF THE WORK. ANY HOLES OR DAMAGE CREATED IN RATED PARTITIONS SHALL BE IMMEDIATELY REPAIRED TO MATCH EXISTING CONSTRUCTION TO MAINTAIN FIRE RATINGS.

K. DISCONNECT AND SEAL ALL UTILITIES SERVING ITEMS AFFECTED BY CONSTRUCTION PRIOR TO START OF DEMOLITION WORK. COORDINATE ANY REQUIRED SHUTDOWNS WITH BUILDING OWNER (SCHOOL DISTRICT).

L. REMOVE OR RELOCATE ALL WIRING, PLUMBING, MECHANICAL EQUIPMENT ETC. AFFECTED BY REMOVAL OF PARTITIONS. REMOVED PIPES AND/OR LINES SHALL BE CUT TO A POINT OF CONCEALMENT BEHIND OR BELOW FINISHED SURFACES AND SHALL BE PROPERLY CAPPED, PLUGGED OR DISCONNECTED. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION.

M. ANY EXISTING VENTILATION SHAFTS/GRILLES TO REMAIN IN OPERATION ARE TO BE PROTECTED AND COVERED IN ORDER TO CONTAIN DUST, ODORS AND DEBRIS FROM ENTERING THE SYSTEM. REFER TO MECHANICAL DRAWINGS FOR MORE INFORMATION.

N. FLOORING:

a. IN AREAS WITH FLOOR FINISHES SCHEDULED TO BE REMOVED, ALL EXISTING FINISHES ARE TO BE REMOVED TO EXPOSE THE EXISTING SUBSTRATE BELOW. ALL DEBRIS AND ADHESIVES ARE TO BE SCRAPED FROM SUBFLOOR IN PREPARATION FOR NEW FINISHES. THE CONTRACTOR IS TO BRING TO THE ATTENTION OF THE ARCHITECT ANY DEFICIENT EXISTING CONDITIONS IN EXISTING CONSTRUCTION BEYOND EASILY OBSERVED FINISHES UNCOVERED DURING DEMOLITION.

b. FOR AREAS WHERE EXISTING FLOOR FINISHES AND FLOOR CONSTRUCTION BELOW IS SCHEDULED TO BE REMOVED REFER TO DEMO NOTE "F" AND STRUCTURAL DRAWINGS FOR MORE INFORMATION. COORDINATE REMOVALS AS REQUIRED WITH NEW CONSTRUCTION.

c. REFER TO DEMO NOTE "X" FOR MORE INFORMATION.

O. WALL FINISHES:

a. WHERE EXISTING WALL TILE OR STONE FINISHES ARE SCHEDULED TO BE REMOVED, THE CONTRACTOR IS TO PERFORM INVESTIGATION PROBES TO DETERMINE THE EXISTING SUBSTRATE BEYOND EASILY OBSERVED FINISHES. ANY EXISTING CEMENT BOARD OR GWB SUBSTRATE IS TO BE REMOVED TOGETHER WITH THE TILE FINISH. CEMENT BLOCK OR MASONRY SUBSTRATES ARE TO BE SCRAPED AS REQUIRED IN PREPARATION TO RECEIVE NEW FINISHES. OTHER EXISTING SUBSTRATE CONDITIONS ARE TO BE FURTHER INVESTIGATED IN THE FIELD AND ARCHITECT IS TO BE NOTIFIED OF EXISTING SUBSTRATE CONDITIONS ONCE PROBES HAVE BEEN COMPLETED. CONTRACTOR IS TO PROVIDE SUFFICIENT NOTICE TO THE ARCHITECT SO AS NOT TO DELAY THE PROGRESS OF THE WORK.

b. WHERE OTHER EXISTING WALL FINISHES (WOOD, METAL CLADDING ETC) ARE SCHEDULED TO BE REMOVED THE CONTRACTOR IS TO REMOVE THE FINISHES ONLY. SUBSTRATE IS TO REMAIN, CONDITION TO BE VERIFIED IN FIELD AFTER PROBES ARE PERFORMED ON A CASE BY CASE BASIS. CONTRACTOR IS TO PROVIDE ADEQUATE NOTICE SO AS NOT TO DELAY THE WORK.

a. REFER TO DEMO NOTE "X" FOR MORE INFORMATION.

P. CEILING FINISHES:

a. WHERE EXISTING CEILING FINISHES ARE SCHEDULED TO BE REMOVED DEMOLITION WORK IS TO BE PERFORMED AS FOLLOWS:

1. REMOVE EXISTING ACOUSTIC CEILING TILE SYSTEM IN ITS ENTIRETY INCLUDING ALL MAIN RUNNERS, TEES AND SUPPORTS UNLESS OTHERWISE INDICATED ON DRAWINGS.
2. REMOVE EXISTING SUSPENDED GWB SYSTEM IN ITS ENTIRETY AS INDICATED ON PLANS UNLESS OTHERWISE NOTED.
3. REMOVE EXISTING PLASTER FINISH AND ANY MESH BEYOND AS REQUIRED IN PREPARATION TO RECEIVE NEW FINISHES IN AREAS INDICATED IN PLANS.

a. PERFORM PROBES AS REQUIRED TO CLARIFY EXISTING SUBSTRATES AND SYSTEMS BEYOND IN AREAS WHERE EXISTING SYSTEMS ARE NOT EASILY IDENTIFIED BY OBSERVATION.

b. REFER TO DEMO NOTE 'R' FOR MORE INFORMATION.

Q. PATCH AND REPAIR ALL SURFACES, SUBSTRATES AND FINISHES IN SURROUNDING AREAS AFFECTED BY REMOVALS AND BRING UP TO AS NEW CONDITION.

R. REMOVE FROM SITE ALL DEBRIS RUBBISH AND OTHER MATERIALS RESULTING FROM DEMOLITION WORK AND AS REQUIRED DURING THE COURSE OF NEW CONSTRUCTION WORK. THE WORK SITE IS TO BE KEPT CLEAN WITH NO DEBRIS PERMITTED TO ACCUMULATE ON SITE. THE CONTRACTOR SHALL LEAVE THE SITE BROOM CLEAN AT THE END OF DEMOLITION.

X. UNCOVERED CONDITIONS DURING DEMOLITION:

a. ALL WALLS SCHEDULED TO BE REMOVED HAVE BEEN INSPECTED TO DETERMINE WHETHER THEY ARE LOAD BEARING. REFER TO STRUCTURAL DRAWINGS FOR MORE INFORMATION. IF ANY EXISTING STRUCTURAL MEMBER OR LOAD BEARING WALL IS UNCOVERED DURING THE COURSE OF DEMOLITION IT IS NOT TO BE DISTURBED. THE CONTRACTOR IS TO NOTIFY ARCHITECT AND ENGINEER IMMEDIATELY SO THAT ANY DESIGN CHANGES CAN BE MADE TO ACCOMMODATE PROPOSED WORK WITHOUT DISTURBING EXISTING STRUCTURE. CONTRACTOR IS TO PROVIDE SUFFICIENT NOTICE SO AS NOT TO DELAY THE WORK.

b. ANY MECHANICAL OR PLUMBING CHASES UNCOVERED DURING THE COURSE OF DEMOLITION ARE NOT TO BE DISTURBED UNLESS OTHERWISE NOTED ON THE DRAWINGS. CONTRACTOR IS TO NOTIFY ARCHITECT AND ENGINEER IMMEDIATELY OF ANY EXISTING CONDITION NOT DEPICTED IN THE DRAWINGS FOR ARCHITECT/ENGINEER TO ASSESS THE EXISTING SYSTEM AND ACCOMMODATE PROPOSED WORK WITHOUT DISTURBING EXISTING BUILDING SYSTEMS. CONTRACTOR IS TO PROVIDE SUFFICIENT NOTICE SO AS NOT TO DELAY THE WORK.

c. IN AREAS WHERE EXISTING CEILING FINISHES OR CEILINGS IN THEIR ENTIRETY ARE SCHEDULED TO BE REMOVED OR REPLACED THE CONTRACTOR IS TO NOTIFY ARCHITECT AND ENGINEER IMMEDIATELY FOR ANY EXISTING STRUCTURAL MEMBER, MEP SERVICES OR EQUIPMENT UNCOVERED DURING DEMOLITION OR ANY DISCREPANCIES FROM EXISTING CONDITIONS DEPICTED IN THE DRAWINGS.

d. CONTRACTOR IS TO IDENTIFY ANY EXISTING CONDITIONS BEYOND EASILY OBSERVED FINISHES OR PROPOSED FINISHES AFFECTING ALL WORK DURING THE COURSE OF DEMOLITION AND NOTIFY ARCHITECT IMMEDIATELY BEFORE PROCEEDING WITH NEW CONSTRUCTION, SO THAT ANY DESIGN CHANGES CAN BE MADE TO ACCOMMODATE UNCOVERED CONDITIONS. THE CONTRACTOR IS TO PROVIDE ADEQUATE NOTICE SO AS NOT TO DELAY THE WORK.

e. AT DEMOLITION COMPLETION A SITE MEETING IS TO BE SCHEDULED TO REVIEW EXISTING CONDITIONS WITH ARCHITECT AND ENGINEER SO THAT ANY UNFORESEEN CONDITIONS CAN BE INCLUDED IN THE DESIGN AND CHANGES MADE IN A TIMELY MANNER.

T. CONTRACTOR IS TO PROTECT ALL BUILDING COMMON AREAS THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES. ALL AFFECTED AREAS ARE TO BE KEPT DUST FREE AND CLEANED DAILY. CONTRACTOR SHALL ADHERE TO ALL BUILDING (SCHOOL DISTRICT) REQUIREMENTS RELATIVE TO THE PROTECTION OF WORK AREAS AS OUTLINED IN THE PROJECT SPECS AND CONTRACT.

KEY NOTES

D1 SAWCUT EXIST. CONCRETE, EXCAVATE, INFILL W/ STRUCTURAL FILL & PATCH W/ NEW CONCRETE TO MATCH ADJACENT SURFACES. PROTECT ASPHALT AS NEEDED. PROVIDE ASPHALT PATCHWORK AS NEEDED ONCE CONCRETE IS COMPLETED TO PROVIDE A FLUSH, CLEAN AND LEVEL TRANSITION.

D2 REMOVE EXIST. WALL(S), FLOOR TO STRUCTURE ABOVE. PATCH & MATCH TO ADJACENT SURFACES. COORD. W/ NEW CONSTRUCTION

D3 CREATE NEW OPENING IN EXIST. WALL. SAW CUT AS REQ'D. PATCH & MATCH TO EXIST. ADJACENT SURFACES. PROVIDE NEW LINTELS IN EXIST. MASONRY WALLS AS REQ. COORD W/ STRUCTURAL & NEW CONSTRUCTION

D4 REMOVE PLYWOOD PARTITION

D5 REMOVE EXIST. DOOR, FRAME & ALL ASSOCIATED HARDWARE

D7 REMOVE EXIST. GARAGE DOOR AND ALL ASSOCIATED HARDWARE, INCLUDING ALL HINGES, TRACKS, ROLLERS, RAIL COMPONENTS AND GARAGE OPENER PARTS/ACCESS. COORD. INFILL W/ NEW CONSTRUCTION

D13 REMOVE LIGHT FIXTURES. CORD. W/ MEP DWG'S FOR MORE INFO.

D15 REMOVE WALK-OFF RECESSED FLOOR CARPET AND ASSOCIATED FRAME

D16 REMOVE EXIST. CASEWORK/BUILT-INS AND SHELVING SUPPORTS, INCLUDING ALL BLOCKING, FASTENERS, AND BASE. COORD. W/ MEP DWG'S FOR ADDITIONAL REMOVALS

D23 REMOVE EXIST. MECHANICAL EQUIP. PATCH & MATCH TO ADJACENT SURFACES. COORD. W/ MEP DWG'S

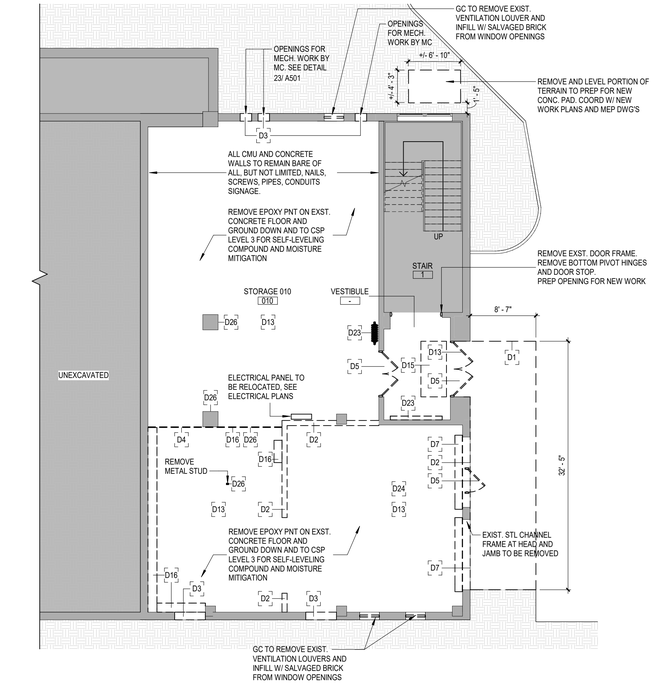
D24 REMOVE CORD REELS, INCLUDING ALL BRACKETS AND FASTENERS. COORD. W/ MEP DWG'S

D26 REMOVE ELECTRICAL EQUIP, PATCH & MATCH TO ADJACENT SURFACES. COORD. W/ MEP DWG'S

HATCH LEGEND

AREAS OF NO WORK

EARTH



PARTIAL DEMOLITION PLAN - PUPIL PERSONNEL SERVICES

1/8" = 1'-0"

10

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

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SEAL

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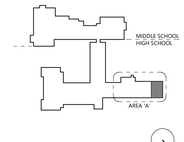
ISSUE	DATE

KEY PLAN



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MEMASI PROJECT NO.	107-2201

DEMOLITION PLANS - PPS

AD101

SHEET NOTES

A. FURNITURE AND EQUIPMENT HIDDEN FOR CLARITY. REFER TO A400'S FOR MORE INFO.

B. REFER TO A601 FOR WALL TYPES.

C. REMOVE DELAMINATING OR DETERIORATED SURFACES OF CAST-IN-PLACE CONCRETE WALLS AND ONE LOCATION OF EXPOSED COLUMNS REBARS. PREPARE AND CLEAN CONCRETE SURFACES AND REBARS. APPLY BONDING AGENTS AS REQUIRE BY THE MANUFACTURER, PATCH WITH RAPID-STRENGHTENING CEMENTITIOUS PATCHING MORTAR. BASIS OF DESIGN PLANIBOND 3C AND PLANITOP 18 TG BY MAPEI.

KEY NOTES

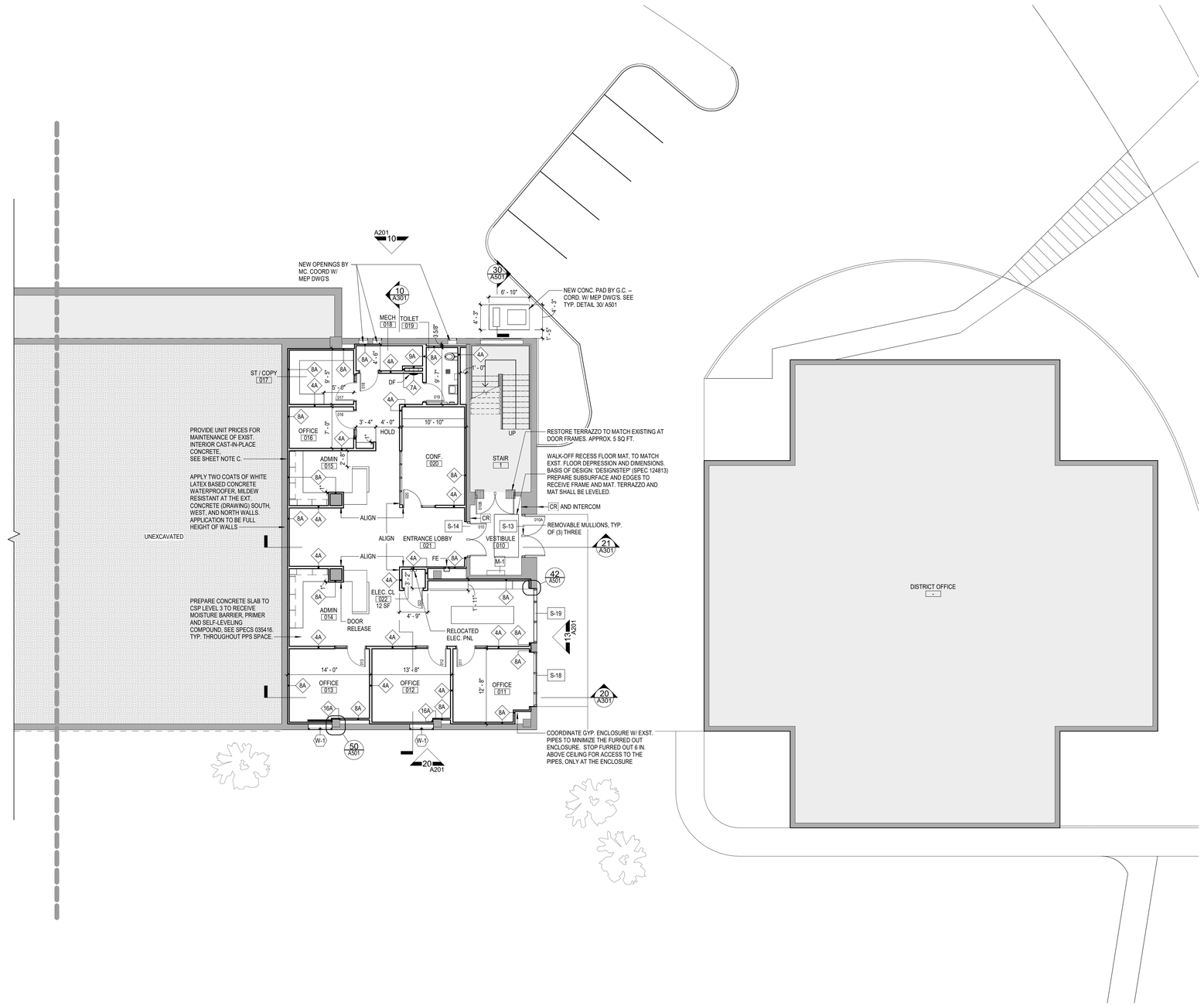
M-1 MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.

DF BASIS OF DESIGN: ELKAY ezH20 IN-WALL BOTTLE FILLING STATION WITH MOUNTING FRAME. FILTERED REFRIGERATED ST. STL MODEL LZWSM8K

HATCH LEGEND

AREAS OF NO WORK

EARTH



CONSTRUCTION PLAN - PUPIL PERSONNEL SERVICES

1/8" = 1'-0"

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

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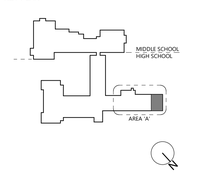
KEY PLAN



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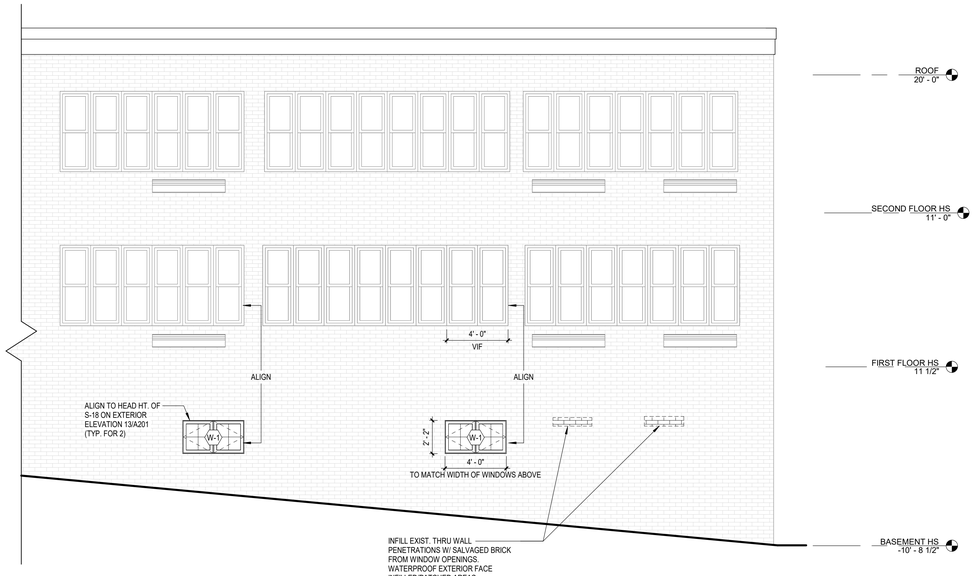
MEMASI PROJECT NO.	107-2201

OVERALL PLAN - PUPIL PERSONNEL SERVICES

A101

SHEET NOTES

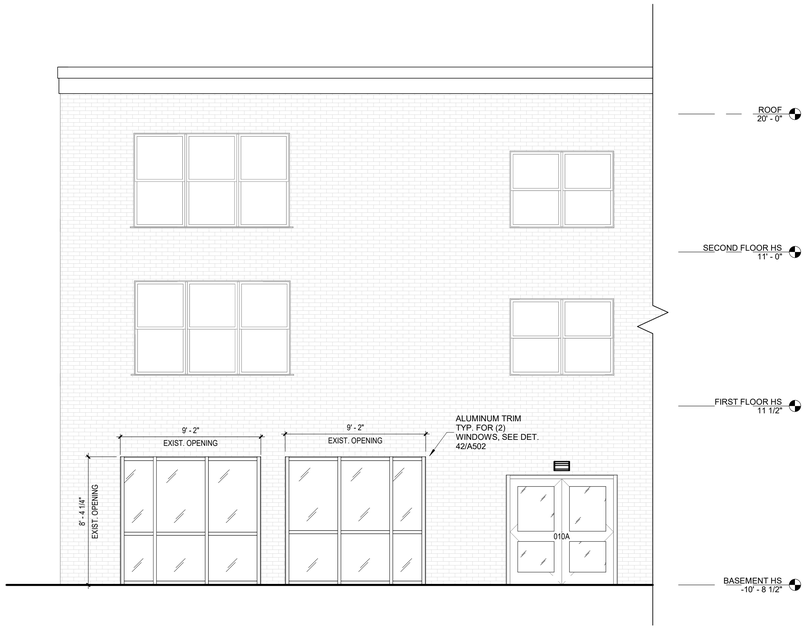
KEY NOTES



EXTERIOR ELEVATION

1/4" = 1'-0"

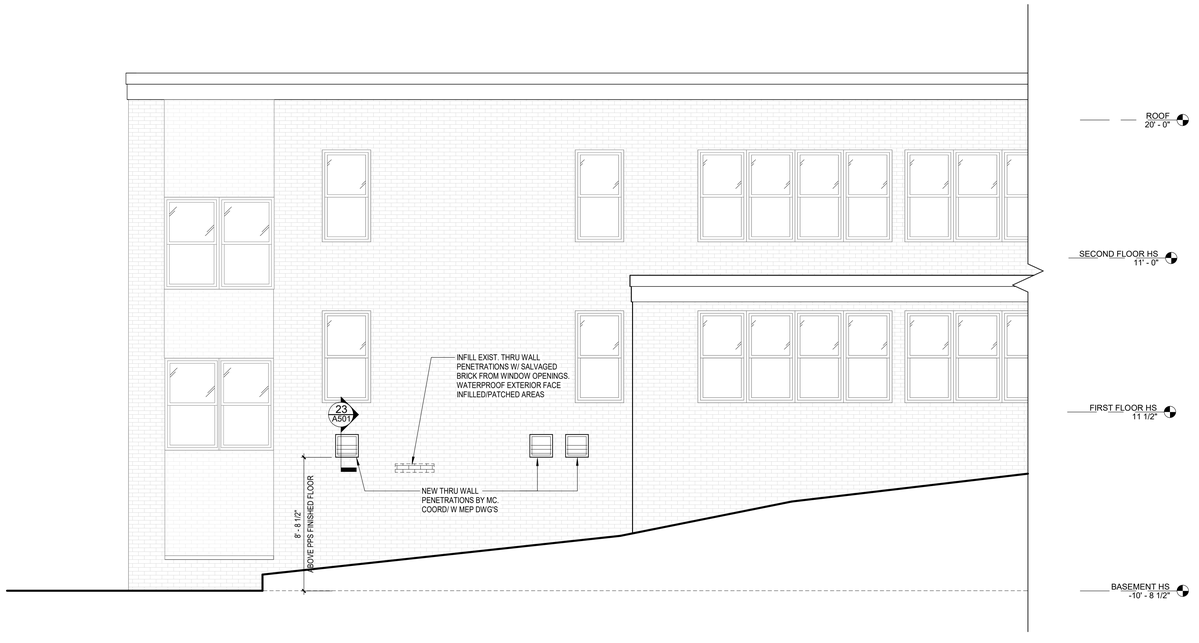
20



EXTERIOR ELEVATION

1/4" = 1'-0"

13



EXTERIOR ELEVATION

1/4" = 1'-0"

10

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

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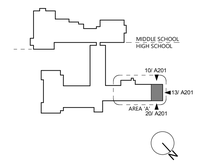

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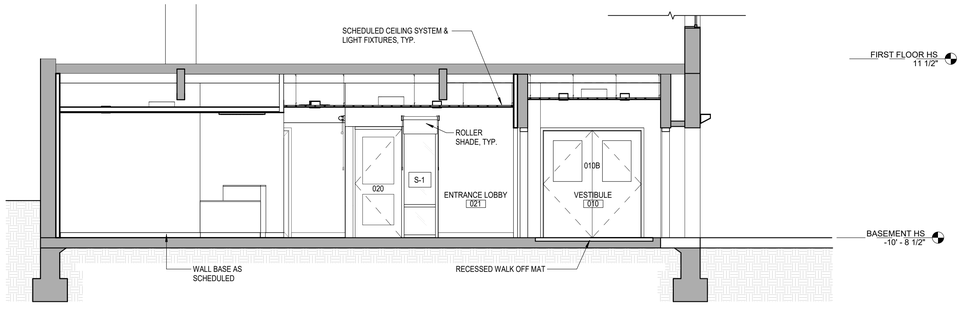
BUILDING ELEVATIONS

A201

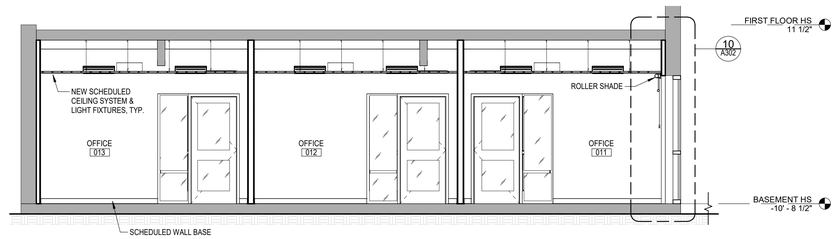
SHEET NOTES

KEY NOTES



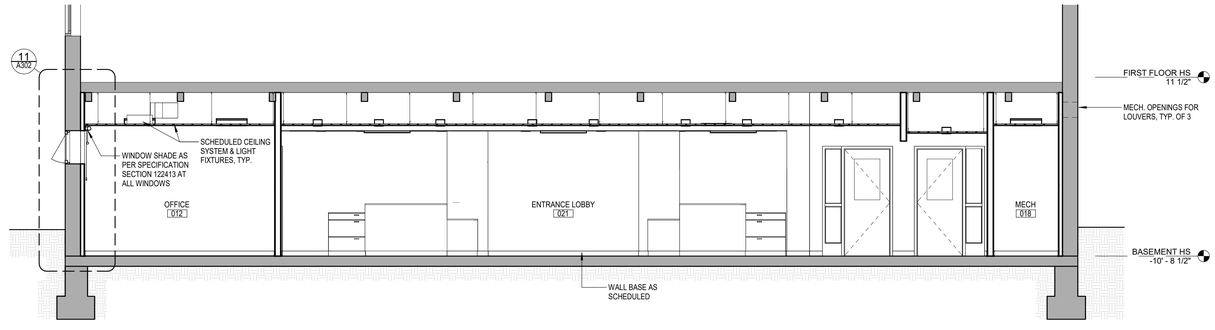
SECTION - PUPIL PERSONNEL SERVICES 21

1/4" = 1'-0"



SECTION - PUPIL PERSONNEL SERVICES 20

1/4" = 1'-0"



SECTION - PUPIL PERSONNEL SERVICES 10

1/4" = 1'-0"

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

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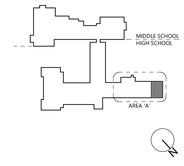
KEY PLAN



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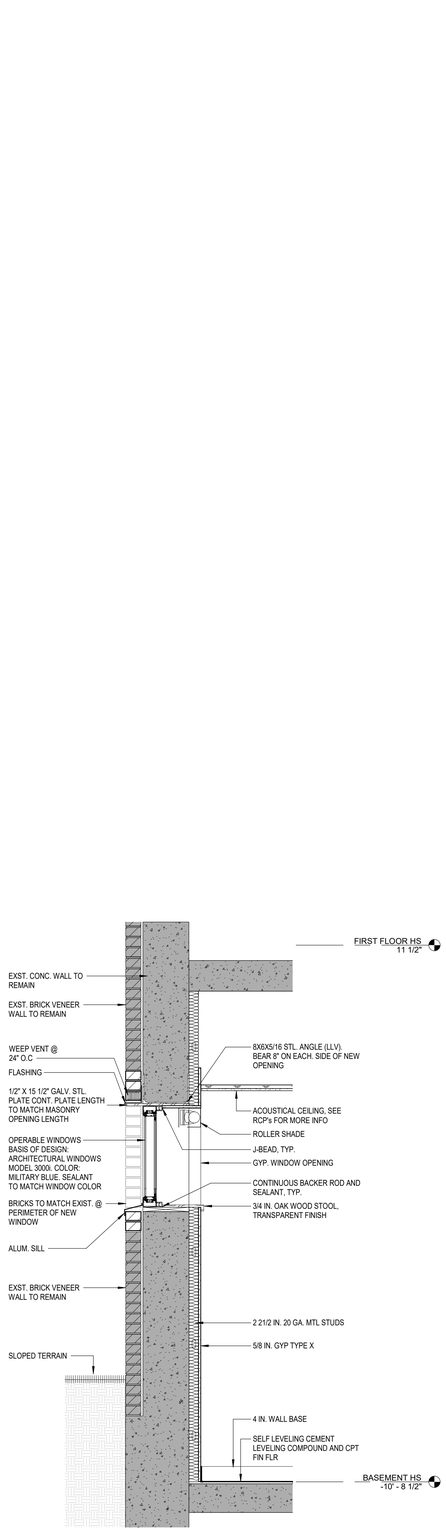
MEMASI PROJECT NO.	107-2201

BUILDING SECTIONS

A301

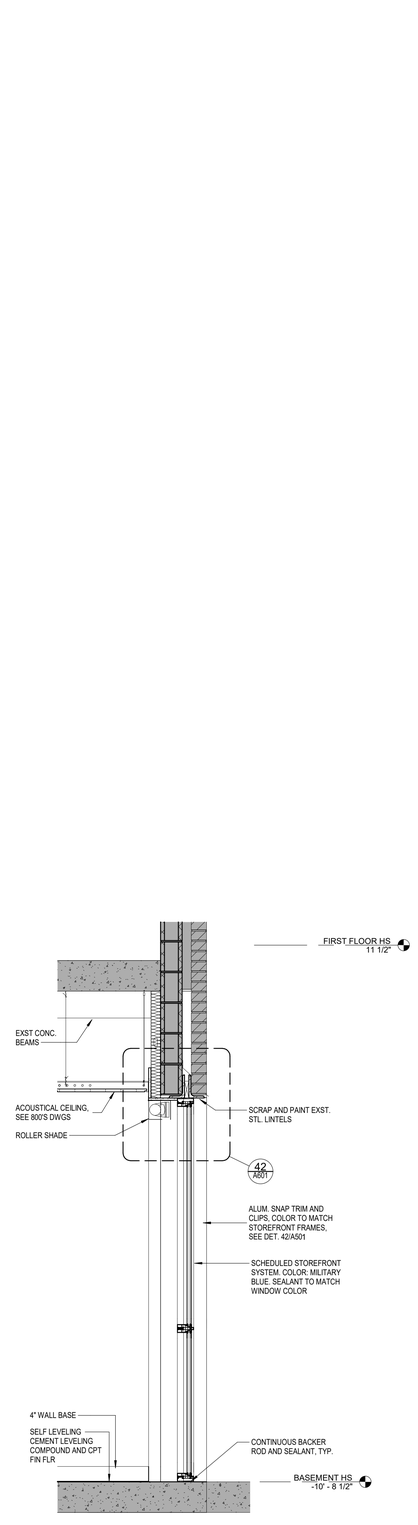
SHEET NOTES

KEY NOTES



SECTION @ PPS OFFICE 11

3/4" = 1'-0"



SECTION @ PPS COLLABORATIVE SPACE 10

3/4" = 1'-0"

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

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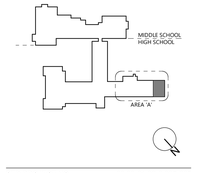

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MEMASI PROJECT NO.	107-2201

WALL SECTIONS

A302

SHEET NOTES

A. REFER TO A900'S FOR STOREFRONT INFORMATION

B. PROVIDE BLOCKING IN ALL ADJACENT WALLS AS REQUIRED TO INSTALL ALL CASEWORK

C. INSTALL MATCHING FILLER PANELS IN LOCATIONS SHOWN. ADD MATCHING FILLER PANELS AS REQUIRED FOR FINAL FIT / FINISH

D. PROVIDE WALL BASE AS SCHEDULED ON ALL EXPOSED END PANELS

E. PROVIDE WINDOW SHADES AT ALL EXTERIOR FIXED AND OPERABLE WINDOWS. INTERIOR WINDOWS AS NOTED

KEY NOTES

EHD	ELECTRIC HAND DRYER
GB1	36" GRAB BAR
GB2	42" GRAB BAR
GB3	18" VERTICAL GRAB BAR
LAV	LAVATORY, REFER TO PLUMBING DRAWINGS
M-1	MECHANICAL EQUIPMENT. SEE MECHANICAL DRAWINGS FOR MORE INFORMATION.
MFP	MATCHING FILLER PANEL.
MR1	18"X30" CHANNEL FRAMED GLASS MIRROR
PD	PAPER TOWERL DISPENSER
SNR	SANITARY NAPKIN WASTER RECEPTACLE
TD	TOILET TISSUE DISPENSER
WC	
WR	SEMI RECESSED WASTE RECEPTACLE. SEE SPECIFICATIONS FOR MORE INFORMATION

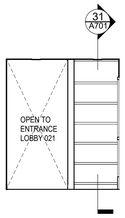
CASEWORK NOTES

HEIGHT OF CASEWORK — XX/XX / XXXX — WIDTH OF CASEWORK; CABINET DESIGN SERIES (CDS) NUMBER

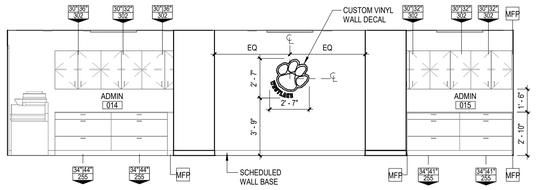
HATCH LEGEND

AREAS OF NO WORK

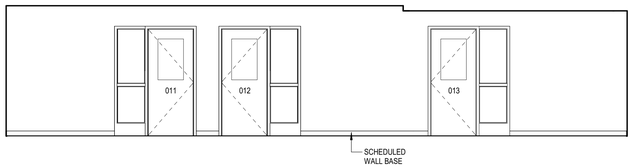
EARTH



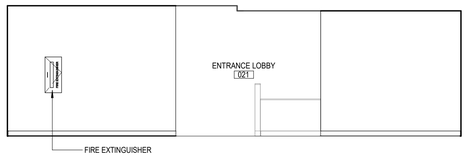
SOUTH EL. 54
1/4" = 1'-0"



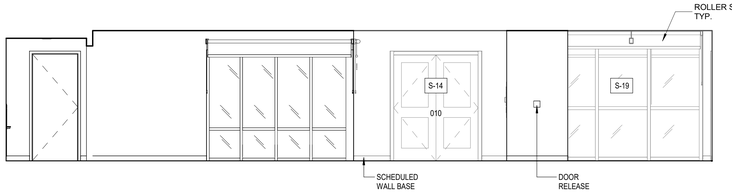
LOBBY 021 - WEST ELEVATION 53
1/4" = 1'-0"



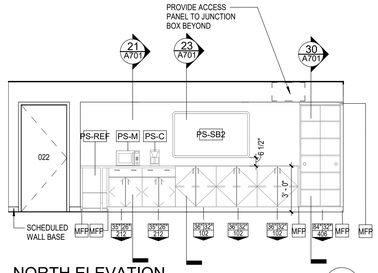
SOUTH ELEVATION 44
1/4" = 1'-0"



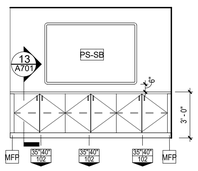
LOBBY 021 - SOUTH ELEVATION 43
1/4" = 1'-0"



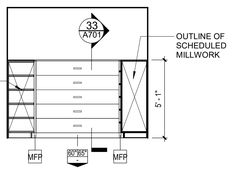
LOBBY 021 - EAST ELEVATION 34
1/4" = 1'-0"



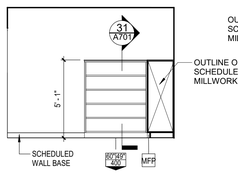
NORTH ELEVATION 33
1/4" = 1'-0"



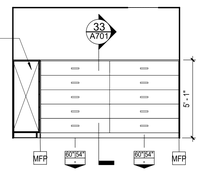
CONF. 020 - NORTH EL. 26
1/4" = 1'-0"



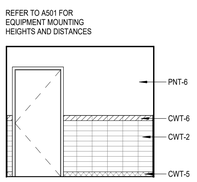
ST / COPY 017 - WEST EL. 25
1/4" = 1'-0"



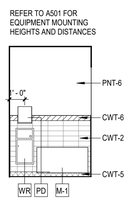
ST / COPY 017 - SOUTH EL. 24
1/4" = 1'-0"



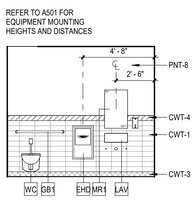
ST / COPY 017 - NORTH EL. 23
1/4" = 1'-0"



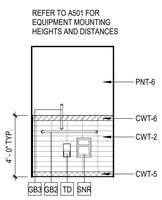
TOILET 019 - WEST EL. 16
1/4" = 1'-0"



TOILET 019 - SOUTH EL. 15
1/4" = 1'-0"



TOILET 019 - EAST EL. 14
1/4" = 1'-0"

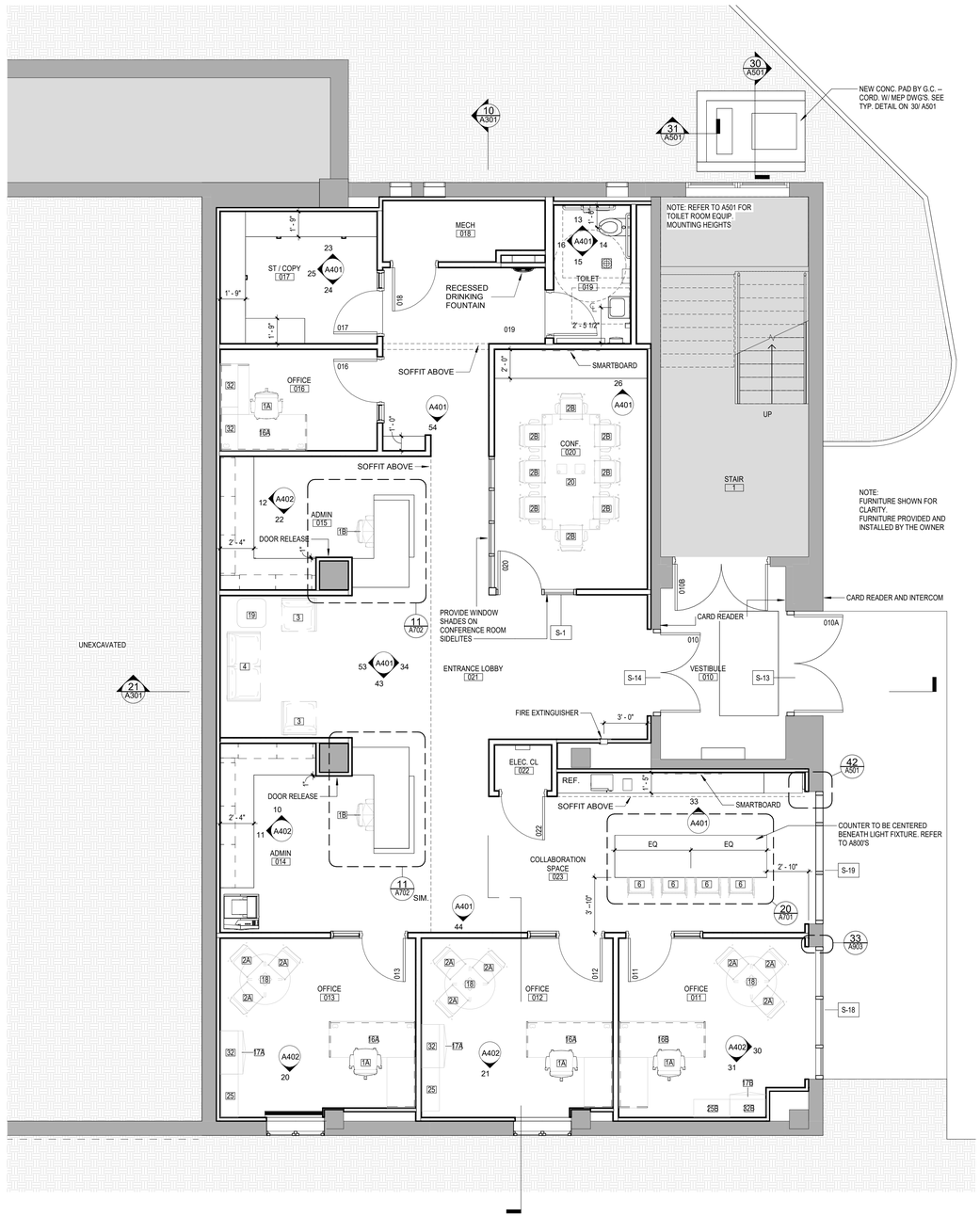


TOILET 019 - NORTH EL. 13
1/4" = 1'-0"

FURNITURE SCHEDULE					
MARK	QTY.	MODEL	MANUFACTURER	DESCRIPTION	BASE STYLE
1A	4		SitOnIt		CASTERS
1B	2		SitOnIt		CASTERS
2A	9		SitOnIt		
2B	8		SitOnIt		
3	2		SitOnIt		GLIDES
4	1		SitOnIt		GLIDES
6	4		SitOnIt		GLIDES
11A	1		KI		GLIDES
16A	3		KI		
16B	1		KI		
17A	2		KI		125000
17B	1		KI		125000
18	3		KI		
19	1		KI		
20	1		KI		
25	2		KI		125000
25B	1		KI		125000
32	4		KI		
32B	1		KI		

FURNITURE PROVIDED AND INSTALLED BY THE OWNER

SPECIALTY EQUIPMENT SCHEDULE - PUPIL PERSONNEL SERVICES					
KEY	COUNT	Type	COMMENTS	PROVIDED BY	REQUIREMENTS
PS-C	1	COFFEE MAKER	PS-C	OWNER	INSTALLED BY GC
PS-M	1	MICROWAVE	PS-M	OWNER	INSTALLED BY GC
PS-REF	1	24" x 25" RH	PS-REF	OWNER	INSTALLED BY GC
PS-SB	1	INTERACTIVE FLAT PANEL		OWNER	INSTALLED BY EC
PS-SB2	1	INTERACTIVE FLAT PANEL 2		OWNER	INSTALLED BY EC



ENLARGED PLAN - PUPIL PERSONNEL SERVICES 10
1/4" = 1'-0"

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

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HAZARDOUS MATERIALS CONSULTANT
QUALITY ENVIORNMENTAL SOLUTIONS & TECHNOLOGIES, INC.
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LIGHTING CONSULTANT
GOLDSTICK LIGHTING DESIGN
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PELHAM, NY 10803

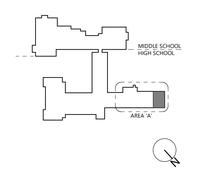
SITE-CIVIL CONSULTANT
THE LA GROUP
40 LONG ALLEY
SARATOGA SPRINGS, NY 12866

SECURITY CONSULTANT
BUILDING TECHNOLOGY CONSULTING
992 BEDFORD STREET
BRIDGEWATER, MA 02324

SEAL

ISSUED FOR BID	06/21/2024
ISSUE	DATE

KEY PLAN



SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

PUPIL PERSONNEL SERVICES

A401

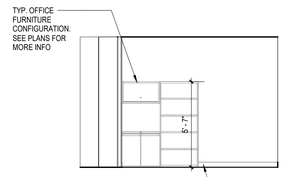
SHEET NOTES

A. FURNITURE AND EQUIPMENT HIDDEN FOR CLARITY. REFER TO A400'S FOR MORE INFO

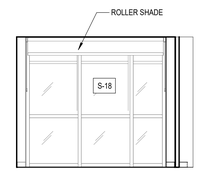
KEY NOTES

MFP MATCHING FILLER PANEL.

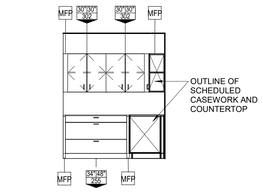
CASEWORK NOTES



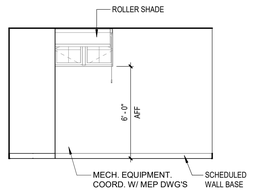
OFFICE 011 - SOUTH EL. 31
1/4" = 1'-0"



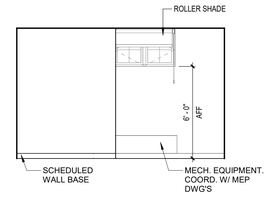
OFFICE 011 - EAST EL. 30
1/4" = 1'-0"



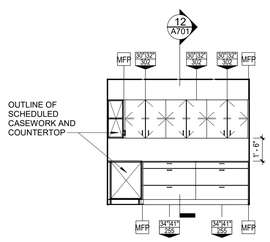
ADMIN 015 - SOUTH EL. 22
1/4" = 1'-0"



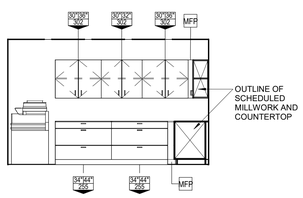
OFFICE 012 - SOUTH EL. 21
1/4" = 1'-0"



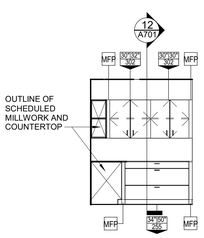
OFFICE 013 - SOUTH EL. 20
1/4" = 1'-0"



ADMIN 015 - WEST EL. 12
1/4" = 1'-0"



ADMIN 014 - WEST EL. 11
1/4" = 1'-0"



ADMIN 014 - NORTH EL. 10
1/4" = 1'-0"

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

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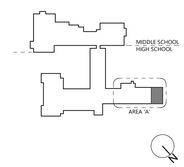
BRIDGEWATER, MA 02324

SEAL

ISSUE	DATE
ISSUED FOR BID	06/21/2024

KEY PLAN



SED PROJECT NO. 66-08-01-06-0-005-025

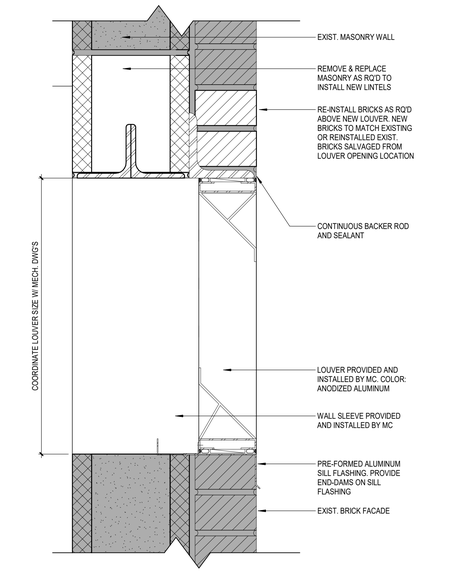
MEMASI PROJECT NO. 107-2201

PUPIL PERSONNEL SERVICES - INTERIOR ELEVATIONS

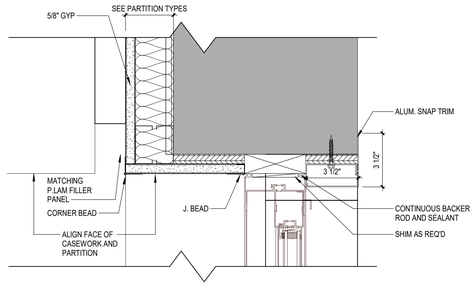
A402

SHEET NOTES

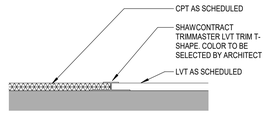
KEY NOTES



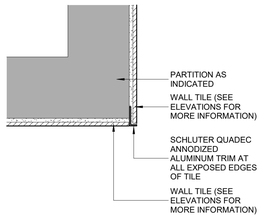
TYP. LOUVER DETAIL
3" = 1'-0"
43



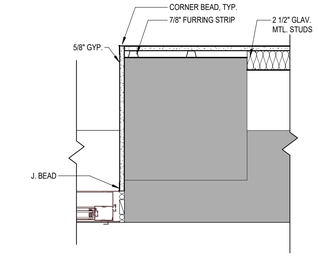
PLAN DETAIL @ CASEWORK
3" = 1'-0"
42



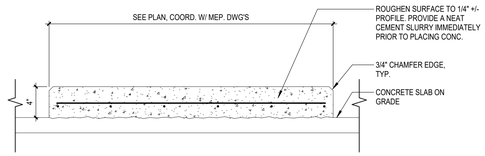
TRANSITION @ LVT TO CPT
6" = 1'-0"
51



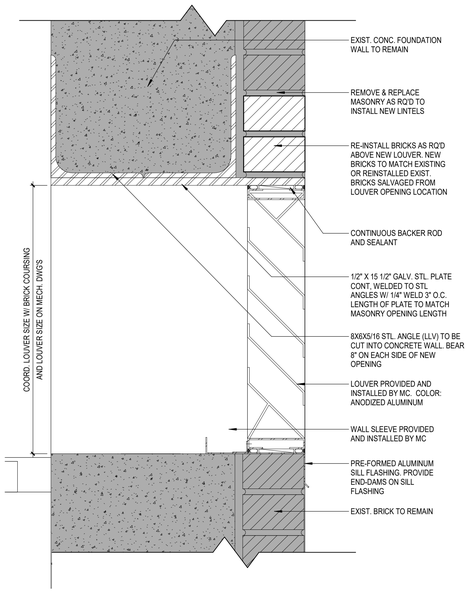
TYPICAL TILE CORNER DETAIL
3" = 1'-0"
41



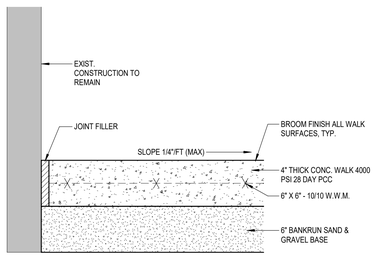
PLAN DETAIL @ COLUMN
1 1/2" = 1'-0"
50



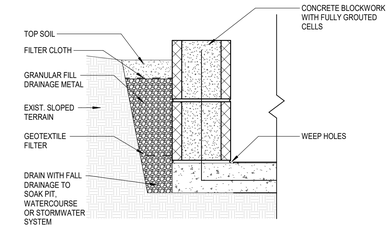
TYP. HOUSEKEEPING PAD DETAIL
1 1/2" = 1'-0"
40



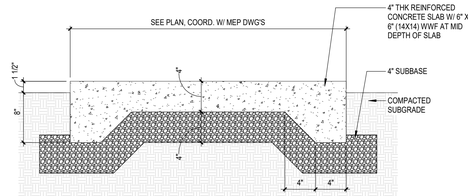
TYP. LOUVER DETAIL
3" = 1'-0"
23



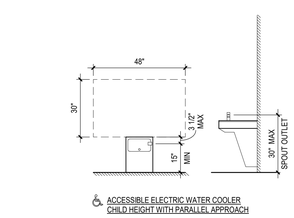
CONCRETE PAD DETAIL
1 1/2" = 1'-0"
32



RETAINING WALL DETAIL
1 1/2" = 1'-0"
31

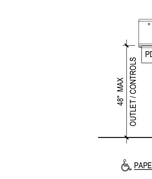


CONCRETE PAD DETAIL
1 1/2" = 1'-0"
30



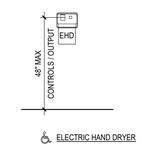
ACCESSIBLE ELECTRIC WATER COOLER
CHILD HEIGHT WITH PARALLEL APPROACH

CHILDREN'S DRINKING FOUNTAIN DETAILS
3/8" = 1'-0"
22



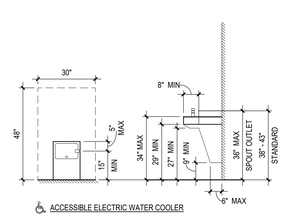
PAPER TOWEL DISPENSER

PAPER TOWEL DISPENSER LOCATION
3/8" = 1'-0"
21



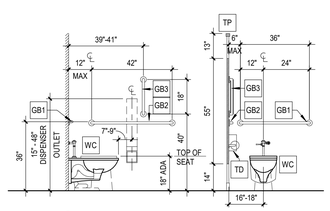
ELECTRIC HAND DRYER

HAND DRYER LOCATION
3/8" = 1'-0"
20



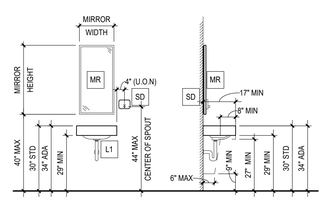
ACCESSIBLE ELECTRIC WATER COOLER

DRINKING FOUNTAIN DETAILS
3/8" = 1'-0"
13



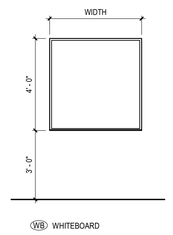
WATER CLOSET
DIMENSIONS SHOWN FOR WALL OR FLOOR MOUNTED WATERCLOSETS

PLUMBING FIXTURE ELEVATIONS
3/8" = 1'-0"
12



ACCESSIBLE LAVATORY WITH MIRROR AND SOAP DISPENSER

TYP. PLUMBING FIXTURE MOUNTING HEIGHTS
3/8" = 1'-0"
11



WB WHITEBOARD

WHITEBOARD MOUNTING DETAIL
3/8" = 1'-0"
10

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

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KEY PLAN

SED PROJECT NO. 66-08-01-06-0-005-025

MEMASI PROJECT NO. 107-2201

TYPICAL EQUIPMENT PLANS, ELEVATIONS AND DETAILS

A501

SHEET NOTES

A. INSTALL CEILING GRIDS CENTERED IN THE ROOM, UNO, IN ROOMS OTHER THAN RECTANGULAR SHAPED, INSTALL GRIDS CENTERED ON WALLS OR OTHER BUILT FEATURES AS INDICATED

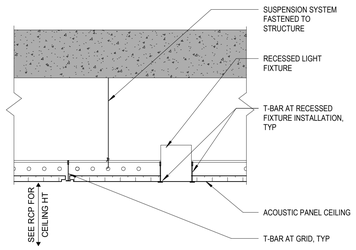
B. INSTALLATION HEIGHTS OF THE CEILINGS MAY VARY SLIGHTLY FROM PLANS IN ROOMS WITH EXTERIOR WINDOWS. ACTUAL CEILING HEIGHT TO BE VERIFIED IN THE FIELD. NOTIFY ARCHITECT IF HEIGHT OTHER THAN THAT SHOWN ON DRAWINGS IS REQUIRED

C. FINAL INSTALLED CEILINGS SHALL HAVE HEIGHTS COORDINATED WITH OTHER CONTRACTORS WITH ABOVE CEILING WORK AND VERIFIED WITH FIELD CONDITIONS. ALL CHANGES IN CONFIGURATION OR HEIGHTS ARE TO BE APPROVED BY THE ARCHITECT

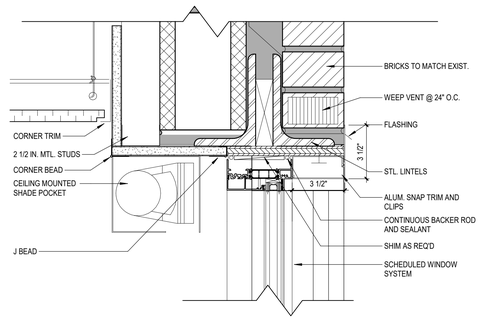
D. SEE FINISH PLANS FOR CEILING TYPE

E. GC TO TEMPORARILY SUPPORT ABOVE CEILING INFRASTRUCTURE AFTER CEILING REMOVAL. COORDINATE WITH OTHER TRADES

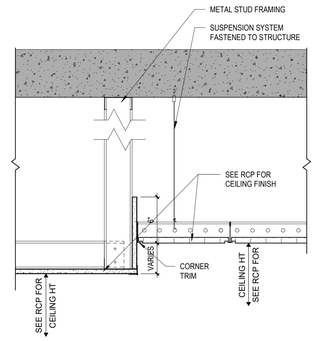
KEY NOTES



ACT DETAIL AT RECESSED LIGHT — 43
1 1/2" = 1'-0"



ROLLER SHADE — 42
3" = 1'-0"



CEILING DETAIL — 41
1 1/2" = 1'-0"

PARTITION NOTES

14 — PARTITION TYPE NUMBER

	NOM. CMU SIZE	STC RATING	FIRE RATING TEST DESIGN	SIDE ONE FINISH SIDE TWO FINISH

GENERAL PARTITION NOTES

1. THIS PARTITION TYPE SCHEDULE IS GENERIC IN NATURE. NOT ALL OF THE PARTITION TYPES ILLUSTRATED ON THIS SHEET HAVE BEEN UTILIZED IN THIS PROJECT. SEE FLOOR PLANS FOR LOCATIONS OF PARTITION TYPES USED.
2. ALL INTERIOR PARTITIONS INDICATED ON THE FLOOR PLANS SHALL BE INCLUDED IN THE CONTRACTOR'S BID. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING OF ANY PARTITION SHOWN ON THE FLOOR PLANS WITHOUT A PARTITION TAG. THE ARCHITECT WILL DETERMINE THE PARTITION TYPE TO BE USED AT SUCH LOCATIONS.
3. ALL NEW PARTITIONS IN MUSIC ROOMS TO BE BUILT TO UNDERSIDE OF EXISTING DECK. **TOP AND BOTTOM PLATES OF THE NEW PARTITIONS IN MUSIC ROOMS TO BE ISOLATED FROM THE BUILDING STRUCTURE USING AN ISOLATION PAD, SUCH AS THE KINETICS WALLMAT.** IDEALLY, THERE SHOULD BE NO CONNECTIONS BETWEEN THE WALLS. HOWEVER, IF CONNECTIONS FOR SUPPORT ARE NECESSARY, LSC&A RECOMMENDS THE USE OF A RESILIENT BRACE, SUCH AS THE KINETICS UNIBRACE OR PSB.

FIRE RATED SYSTEMS

1. PROVIDE FIRE RATED JOINT SYSTEMS AT ALL INTERSECTIONS OF FIRE RATED PARTITION ASSEMBLIES AND FIRE RATED FLOOR/ROOF ASSEMBLIES. THE FIRE RATED JOINT SYSTEM SHALL HAVE A MINIMUM FIRE RESISTANCE RATING GREATER THAN OR EQUAL TO THE PARTITION IN WHICH IT IS BEING USED. THIS JOINT SYSTEM MUST BE AN APPROVED ASSEMBLY TESTED BY A NATIONALLY RECOGNIZED TESTING AGENCY.
2. PROVIDE THROUGH-PENETRATION FIRE STOP SYSTEM AT ALL PENETRATIONS THROUGH FIRE RATED PARTITION, FLOOR AND ROOF ASSEMBLIES. THE THROUGH-PENETRATION FIRE STOP SYSTEM SHALL HAVE A MINIMUM FIRE RESISTANCE RATING GREATER THAN OR EQUAL TO THE ASSEMBLY THAT IT IS BEING USED IN. THIS FIRE STOP SYSTEM MUST BE AN APPROVED ASSEMBLY TESTED BY A NATIONALLY RECOGNIZED TESTING AGENCY.
3. ANY PRODUCT THAT EMITS ODOR MUST MEET THE REQUIREMENTS OF THE NEW YORK STATE EDUCATION DEPARTMENT.
4. CONCEALED VERTICAL SPACES IN PARTITIONS SHALL BE FILLED WITH NON COMBUSTIBLE MATERIAL, OR FIRE-STOPPED AT EACH FLOOR LEVEL AND AT THE CEILING OF THE UPPERMOST STORY, SO THAT SUCH SPACES WILL NOT BE CONTINUOUS FOR MORE THAN ONE STORY, OR COMMUNICATE WITH CONCEALED HORIZONTAL SPACES IN THE FLOOR OR ROOF CONSTRUCTION.
5. ALL PARTITION TYPE DIAGRAMS ARE GRAPHICAL IN NATURE. IN THE CASE WHERE A DIAGRAM DOES NOT SHOW ALL MATERIALS REQUIRED BY A FIRE-RATED PARTITION, THE PARTITION TYPE DESCRIPTION GOVERNS.

CMU WALL SYSTEMS

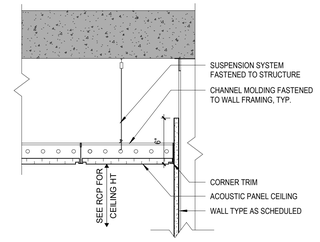
1. ALL PLAN DIMENSIONS ARE TO FACE OF CMU, UNLESS NOTED OTHERWISE.
2. PROVIDE HORIZONTAL JOINT REINFORCEMENT EVERY OTHER CMU COURSE.
3. PROVIDE (2) VERTICAL #4 BARS IN FULLY GROUTED CORES AT THE FOLLOWING LOCATIONS:
   A) PARTITION INTERSECTIONS (REINFORCE FULL HEIGHT)
   B) DOOR OPENINGS (REINFORCE FULL HEIGHT OF DOOR)
   C) WINDOW OPENINGS (REINFORCE FLOOR TO WINDOW HEAD)
   D) WALL ENDS (REINFORCE FULL HEIGHT)
4. SEE STRUCTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL REINFORCING AND ANCHORING REQUIREMENTS.
5. PROVIDE BULLNOSE MASONRY UNITS ON ALL OUTSIDE CORNERS OF WALLS UNLESS NOTED OTHERWISE.

METAL STUD PARTITION AND CEILING SYSTEMS

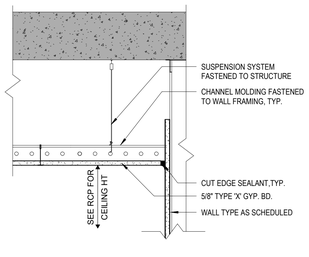
1. ALL DIMENSIONS ARE TO THE FACE OF GWB UNLESS NOTED OTHERWISE.
2. PROVIDE METAL BRACING AT THIRD POINTS AT THE INTERIOR OF METAL STUD CHASE PARTITIONS. BRACING SHALL NOT EXCEED 48" OC.
3. PROVIDE METAL L.C. BEAD, BACKER ROD AND SEALANT AT THE INTERSECTION OF GYP BD PARTITIONS AND MASONRY PARTITIONS.
4. PROVIDE ACOUSTICAL SEALANT IN THE FOLLOWING LOCATIONS:
   A) PERIMETER OF PARTITIONS
   B) RUNNERS
   C) ELECTRICAL OUTLETS
   D) PARTITION PENETRATIONS AND OPENINGS
5. PROVIDE BLOCKING WITHIN PARTITIONS TO SUPPORT PARTITION MOUNTED EQUIPMENT, FIXTURES AND ACCESSORIES. COORDINATE WITH CABINETRY DETAILS AND MEP DRAWINGS.
6. ALL INTERIOR METAL STUDS AND METAL FURRING AT PARTITIONS ARE 20 GAUGE UNLESS OTHERWISE NOTED. ALL INTERIOR METAL STUDS AND FURRING FOR CEILING SOFFITS ARE 25 GAUGE UNLESS NOTED OTHERWISE.
7. ANCHOR INSULATION TO STUD SYSTEM WITH WIRE SUPPORT SYSTEM IF INSULATION IS NOT SUPPORTED ON BOTH SIDES BY GYPSUM BOARD. WHERE DOUBLE STUD PARTITIONS ARE USED TO FORM CHASE PARTITIONS ONLY PROVIDE SOUND ATTENUATION BLANKETS ON ONE SIDE OF CHASE
8. GYPSUM BOARD SCHEDULE
   - 5/8" TYPE 'X' GYPSUM BOARD UNLESS NOTED OTHERWISE.
   - CORRIDOR AND STUDENT OCCUPIED SPACES FROM FLOOR TO 8'-0" ABOVE FINISHED FLOOR: 5/8" TYPE 'X' ABUSE RESISTANT GYPSUM BOARD
   -SUSPENDED GYPSUM BOARD CEILINGS: 5/8" TYPE 'X" SAG RESISTANT GYPSUM BOARD
   -EXTERIOR CEILINGS AND SOFFITS: 5/8" GLASS-MAT GYPSUM SHEATHING
   -PARTITIONS TO RECEIVE TILE FINISH: 5/8" TYPE 'X'GLASS-MAT WATER RESISTANT BACKING BOARD
   - TOILET ROOMS, KITCHENS & JANITOR CLOSETS: PARTITIONS & CEILINGS THAT DO NOT RECEIVE TILE SHALL RECEIVE 5/8" TYPE "X" MOISTURE & MOLD RESISTANT GYPSUM BOARD

MAXIMUM SPACING - GYPSUM BOARD CONTROL JOINTS

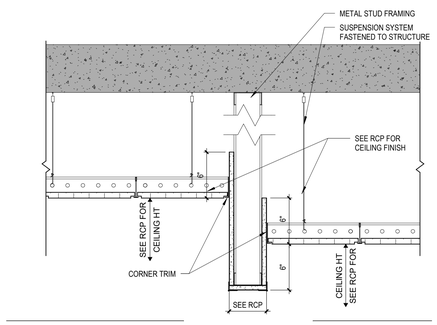
CONSTRUCTION AND LOCATION	MAX SINGLE DIMENSION FEET	MAX SINGLE AREA FEET
PARTITION - INTERIOR	30	-
CEILING - INTERIOR		
W/ PERIMETER RELIEF	50	2500
W/O PERIMETER RELIEF	30	900



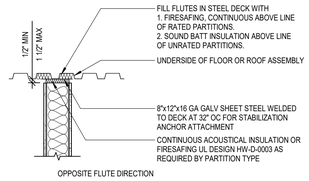
ACT HUNG CEILING DETAIL AT WALL — 33
1 1/2" = 1'-0"

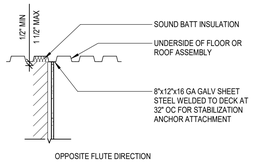


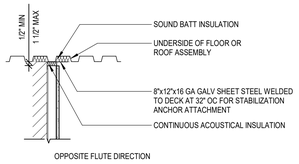
GWB HUNG CEILING DETAIL AT WALL — 23
1 1/2" = 1'-0"

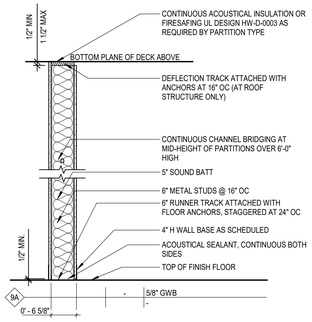


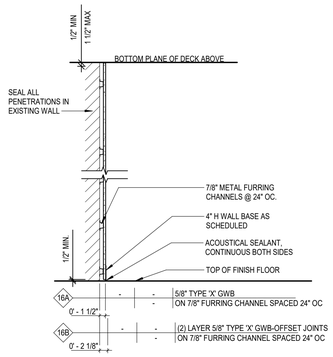
SOFFIT DETAIL — 13
1 1/2" = 1'-0"

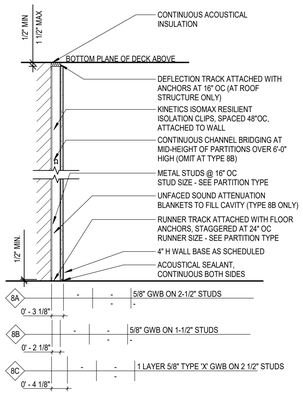


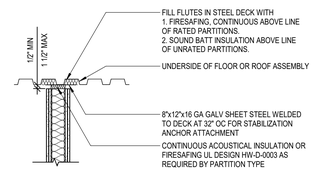


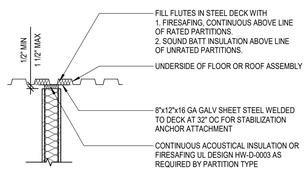


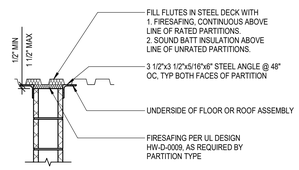


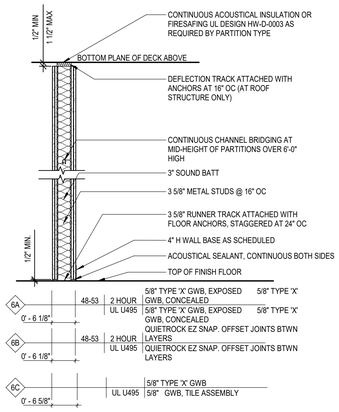


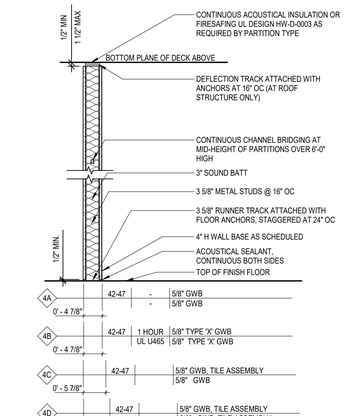


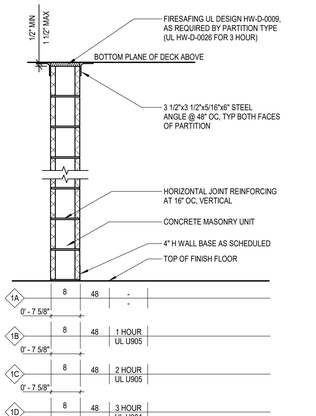












PARTITION TYPES
3/4" = 1'-0"

10

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

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40 LONG ALLEY
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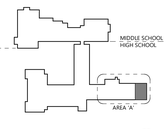
SECURITY CONSULTANT
BUILDING TECHNOLOGY CONSULTING
992 BEDFORD STREET
BRIDGEWATER, MA 02324

SEAL

ISSUE	DATE
ISSUED FOR BID	06/21/2024

KEY PLAN



SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

PARTITION TYPES

A601

SHEET NOTES

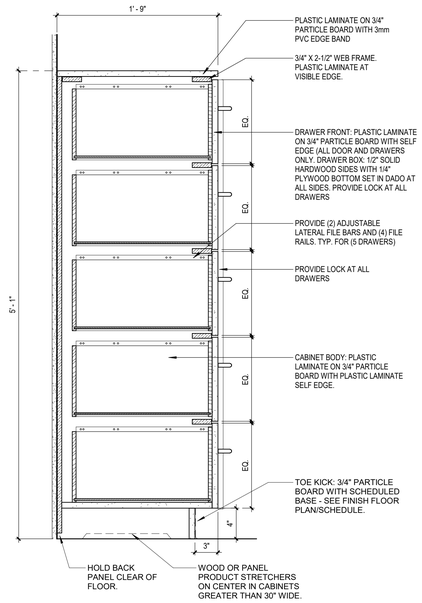
A. PROVIDE BLOCKING IN ALL ADJACENT WALLS AS REQUIRED TO INSTALL ALL CASEWORK

B. PROVIDE MATCHING EDGEBAND AT ALL EDGES AND CORNERS

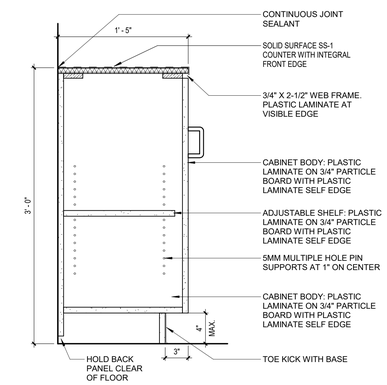
KEY NOTES

CASEWORK NOTES

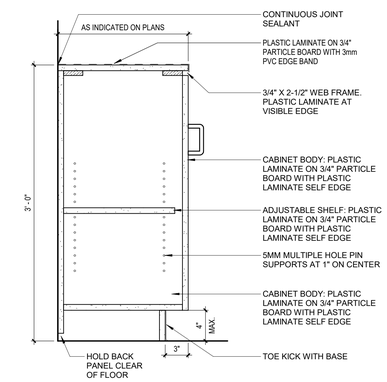
HEIGHT OF CASEWORK — XXXX — WIDTH OF CASEWORK
XXXX — CABINET DESIGN SERIES (CDS) NUMBER



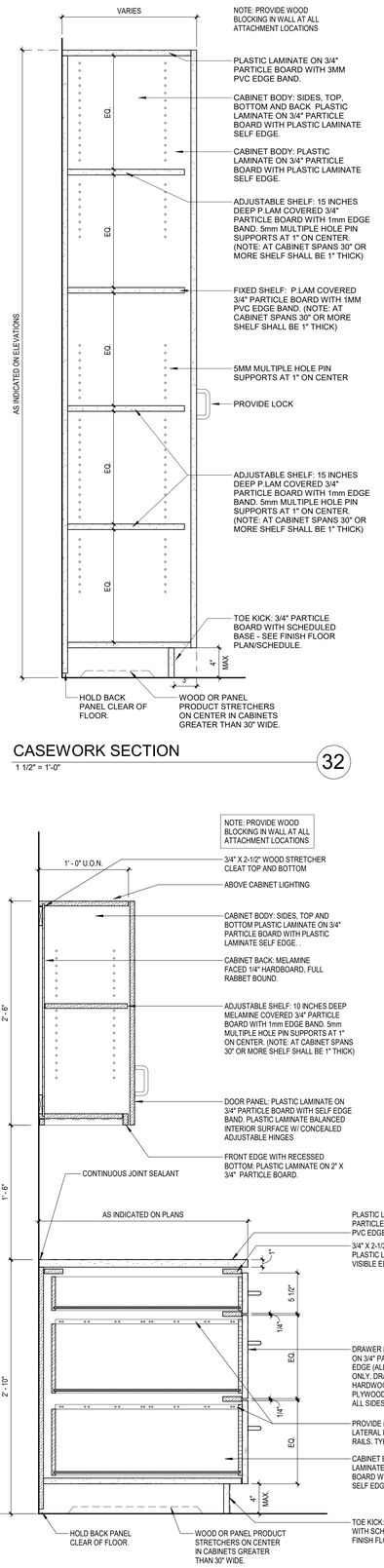
SECTION @ 5 DRAWER FILE CABINET 33
1 1/2" = 1'-0"



CASEWORK SECTION 23
1 1/2" = 1'-0"

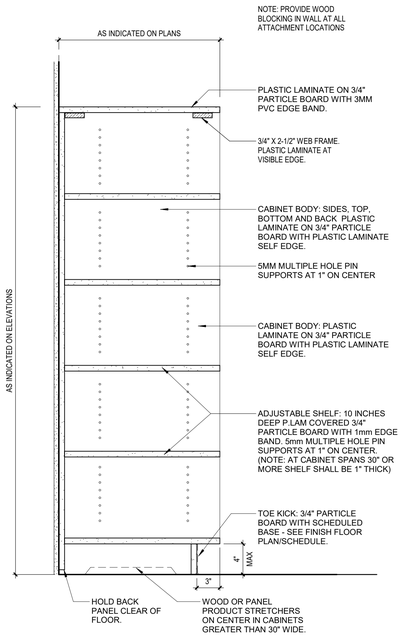


CASEWORK SECTION 13
1 1/2" = 1'-0"

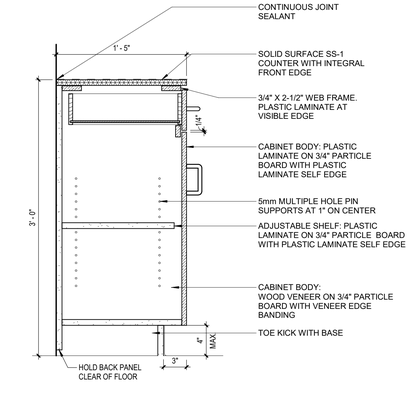


CASEWORK SECTION 32
1 1/2" = 1'-0"

SECTION @ FILE CABINET AND UPPER CABINET 12
1 1/2" = 1'-0"



CASEWORK SECTION 31
1 1/2" = 1'-0"



CASEWORK SECTION 21
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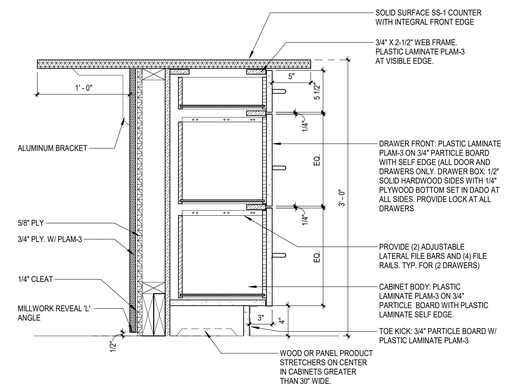
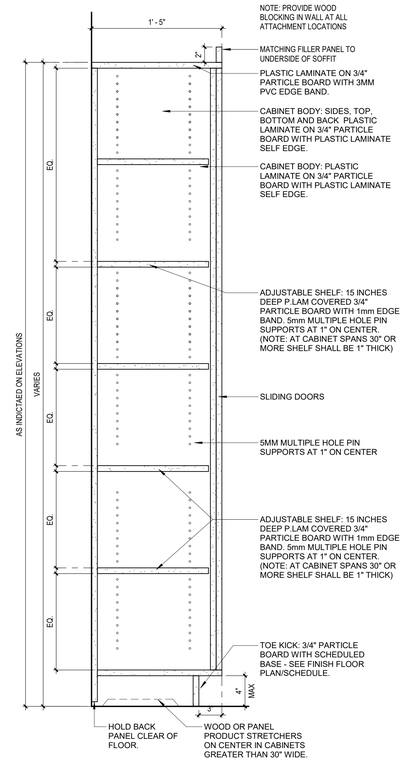


SECTION @ COUNTER 11
1 1/2" = 1'-0"



CASEWORK SECTION 30
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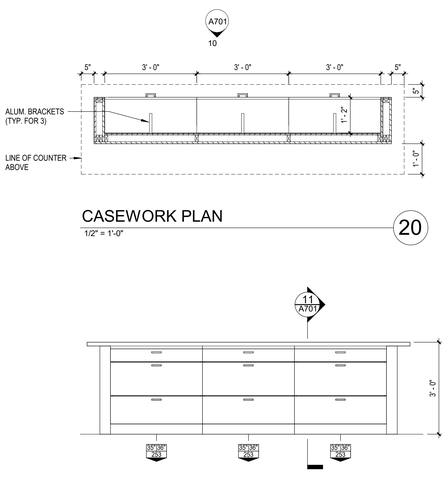

CASEWORK PLAN 20
1/2" = 1'-0"

CASEWORK ELEVATION 10
1/2" = 1'-0"

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

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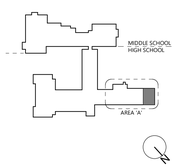
992 BEDFORD STREET
BRIDGEWATER, MA 02324

SEAL

ISSUED FOR BID	06/21/2024
ISSUE	DATE

KEY PLAN



SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

CASEWORK DETAILS

A701

SHEET NOTES

A. PROVIDE BLOCKING IN ALL ADJACENT WALLS AS REQUIRED TO INSTALL ALL CASEWORK

B. PROVIDE MATCHING EDGEBAND AT ALL EDGES AND CORNERS

KEY NOTES

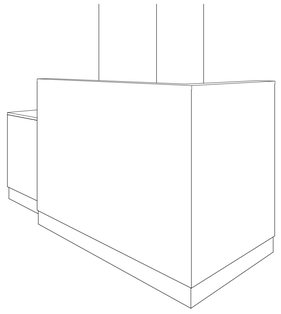
ADMIN 015 3D VIEW 24

CIRCULATION DESK ELEVATION 23
1/2" = 1'-0"

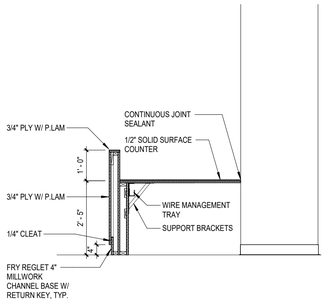
CIRCULATION DESK ELEVATION 22
1/2" = 1'-0"

CIRCULATION DESK ELEVATION 21
1/2" = 1'-0"

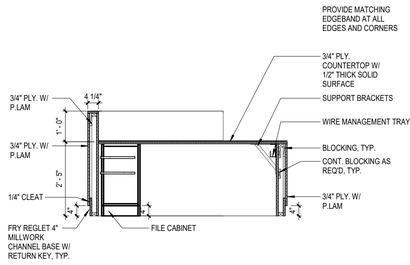
CIRCULATION DESK ELEVATION 20
1/2" = 1'-0"



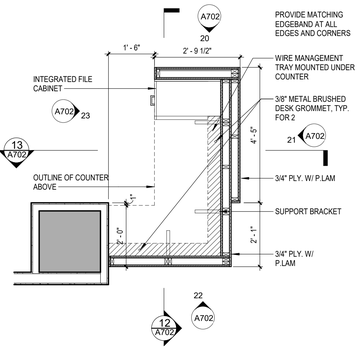
ADMIN 015 3D VIEW 14



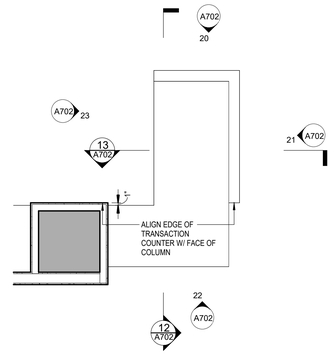
CIRCULATION DESK SECTION 13
1/2" = 1'-0"



CIRCULATION DESK SECTION 12
1/2" = 1'-0"



CIRCULATION DESK PLAN 11
1/2" = 1'-0"



CIRCULATION DESK PLAN 10
1/2" = 1'-0"

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

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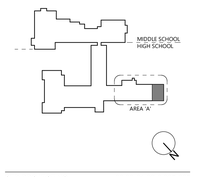
KEY PLAN



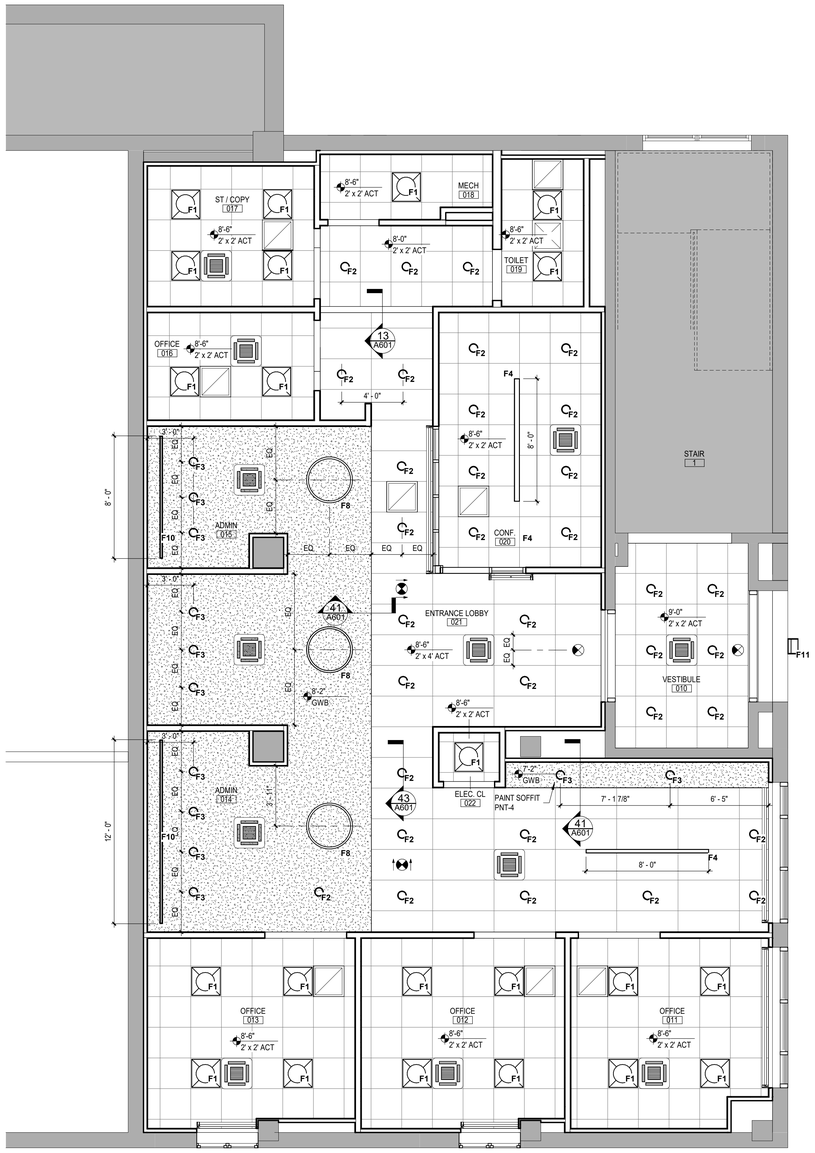
SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

CASEWORK DETAILS

A702

SHEET NOTES

KEY NOTES



REFLECTED CEILING PLAN - PUPIL PERSONNEL SERVICES

1/4" = 1'-0"

10

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

ARCHITECT

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STRUCTURAL CONSULTANT

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MASSAPEQUA PARK, NY 11762

HAZARDOUS MATERIALS CONSULTANT

QUALITY ENVIORNMENTAL SOLUTIONS & TECHNOLOGIES, INC.
1376 ROUTE 9
WAPPINGERS FALLS, NY 12590

LIGHTING CONSULTANT

GOLDSTICK LIGHTING DESIGN
629 FIFTH AVE, #204
PELHAM, NY 10803

SITE-CIVIL CONSULTANT

THE LA GROUP
40 LONG ALLEY
SARATOGA SPRINGS, NY 12866

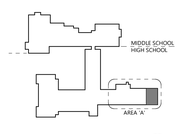
SECURITY CONSULTANT

BUILDING TECHNOLOGY CONSULTING
992 BEDFORD STREET
BRIDGEWATER, MA 02324

SEAL

ISSUE	DATE
ISSUED FOR BID	06/21/2024

KEY PLAN



SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

REFLECTED CEILING PLAN - PPS

A801

SHEET NOTES

A. DOORS THAT HAVE A FIRE RATING SHALL HAVE CORRESPONDING RATED FRAMES

B. AT ALL INTERSECTIONS OF DISSIMILAR FLOORING MATERIALS, PROVIDE APPROPRIATE TRANSITION STRIPS

C. AT ALL DISSIMILAR CARPET TO CARPET INTERSECTIONS, PROVIDE APPROPRIATE TRANSITION STRIPS

D. ALL DOOR FRAMES TO BE PAINTED COLOR TO MATCH WALL UNLESS OTHERWISE NOTED

KEY NOTES

GLAZING TYPES

X-1 VISION GLASS

X-3 SECURITY GLASS (SHOOTER ATTCK GLASS)

I-2 TEMPERED SAFETY GLASS

NEW DOOR SCHEDULE - PUPIL PERSONNEL SERVICES

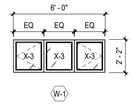
DOOR NUMBER	DOOR QUANTITY	DOOR FROM		DOOR TO		DOOR RATING	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FRAME COLOR	FRAME DETAILS HEAD DETAIL	FRAME DETAILS JAMB DETAIL	FRAME DETAILS SILL DETAIL	GLAZING	HARDWARE	MAG HOLD-OPEN	ACCESS CONTROL
010	2	021	ENTRANCE LOBBY	010	VESTIBULE	(none)	2' - 9"	6' - 11"	1 3/4"	DG	ALUM	FF	-	ALUM	FF				10/A902	X-3	EXT 02		CARD READER
010A	2	010	VESTIBULE			(none)	3' - 4 1/2"	6' - 11"	1 3/4"	DG	ALUM	FF	-	ALUM	FF				14/A902	I-3	EXT 02		CARD READER AND INTERCOM
010B	2	010	VESTIBULE	1	STAIR	(none)	3' - 2 1/2"	7' - 0"	1 3/4"	G	WD	FF	2	HM	PNT					X-3	EXT 02		CARD READER
011	1	023	COLLABORATION SPACE	011	OFFICE	(none)	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	8	HM	PT	PNT-6	30/A902	20/A902	10/A902		01		
012	1	023	COLLABORATION SPACE	012	OFFICE	(none)	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	8	HM	PT	PNT-6	30/A902	20/A902	10/A902		01		
013	1	014	ADMIN	013	OFFICE	(none)	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	8	HM	PT	PNT-6	30/A902	20/A902	10/A902		01		
016	1	021	ENTRANCE LOBBY	016	OFFICE	(none)	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	7	HM	PT	PNT-6	30/A902	30/A902	10/A902		01		
017	1	021	ENTRANCE LOBBY	017	ST / COPY	(none)	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	7	HM	PT	PNT-6	30/A902	30/A902	10/A902		03		
018	1	021	ENTRANCE LOBBY	018	MECH	(none)	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT	PNT-6	30/A902	20/A902	13/A902	-	03A		
019	1	021	ENTRANCE LOBBY	019	TOILET	(none)	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT	PNT-6	30/A902	20/A902	11/A902		02		
020	1	020	CONF.	021	ENTRANCE LOBBY	(none)	3' - 0"	7' - 0"	1 3/4"	DG	WD	FF	10	HM	FF	PNT-6	30/A903	20/A903	10/A902	I-2	01		
022	1	022	ELEC. CL	023	COLLABORATION SPACE	(none)	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PNT	PNT-6	30/A902	20/A902	10/A902	-	03A		

NOTE:
REMOVABLE MULLIONS FOR DOORS 010, 010A, AND 010B SHALL BE PTD. TO MATCH DOOR FRAMES AND ALUMINUM DOORS.

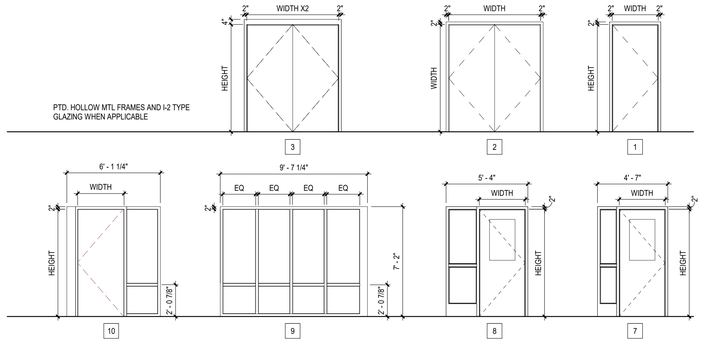
GC TO VERIFY ROUGH OPENING DIMENSIONS OF ALL NEW DOORS IN EXISTING OPENING PRIOR TO ORDERING OF NEW DOORS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES

WINDOW SCHEDULE

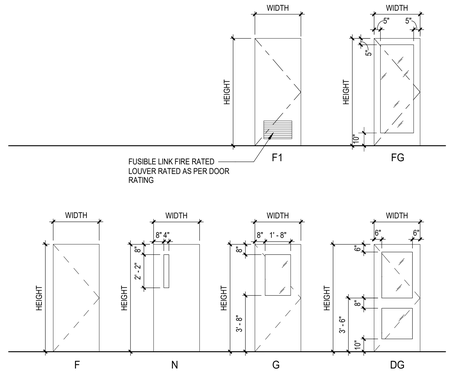
KEY	QTY.	WIDTH	HEIGHT	GLAZING TYPE	MANUFACTURER
W-1	1	4' - 0"	2' - 2"	X-3	
W-1	1	4' - 0"	2' - 2"	X-3	



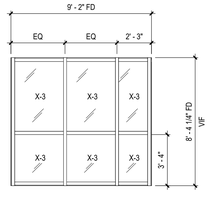
WINDOW TYPE LEGEND 22
1/4" = 1'-0"



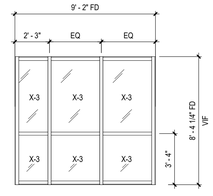
FRAME TYPE LEGEND 21
1/4" = 1'-0"



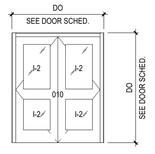
DOOR TYPE LEGEND 20
NTS



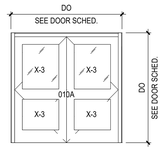
S-19 13
1/4" = 1'-0"



S-18 12
1/4" = 1'-0"



S-14 11
1/4" = 1'-0"



S-13 10
1/4" = 1'-0"

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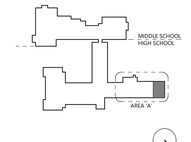


SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

DOOR AND WINDOW SCHEDULE AND ELEVATIONS

A901

SHEET NOTES

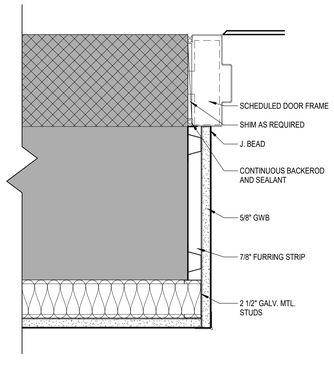
A. DOORS THAT HAVE A FIRE RATING SHALL HAVE CORRESPONDING RATED FRAMES

B. AT ALL INTERSECTIONS OF DISSIMILAR FLOORING MATERIALS, PROVIDE APPROPRIATE TRANSITION STRIPS

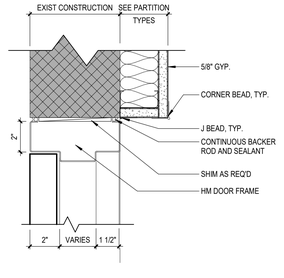
C. AT ALL DISSIMILAR CARPET TO CARPET INTERSECTIONS, PROVIDE APPROPRIATE TRANSITION STRIPS

D. ALL DOOR FRAMES TO BE PAINTED COLOR TO MATCH WALL UNLESS OTHERWISE NOTED

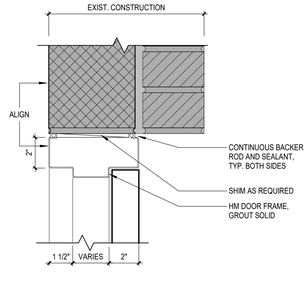
KEY NOTES



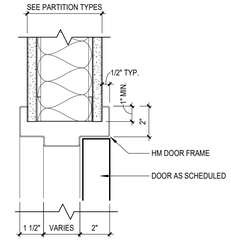
DOOR JAMB @ CMU WALL W/ FURRING 33
3" = 1'-0"



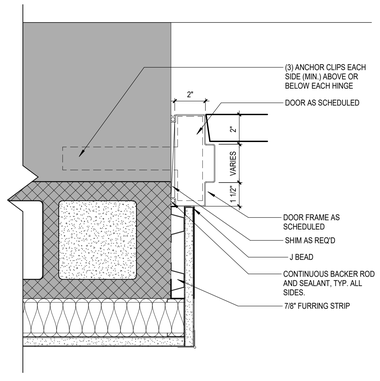
DOOR HEAD @ CMU WALL W/ FURRING 32
3" = 1'-0"



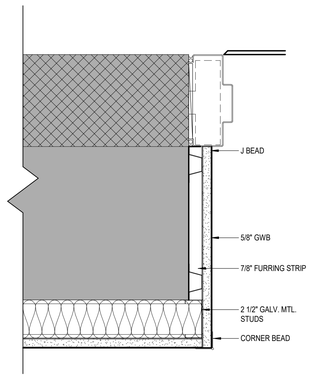
DOOR HEAD @ CMU WALL 31
3" = 1'-0"



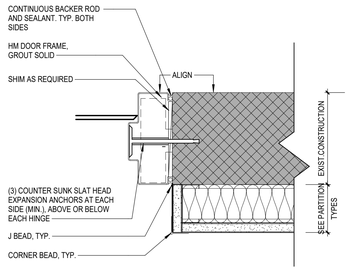
DOOR HEAD @ MTL. STUD WALL 30
3" = 1'-0"



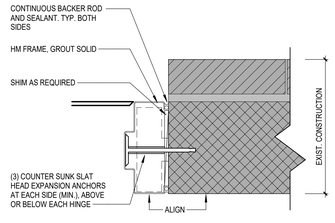
DOOR JAMB @ CMU W/ FURRING 24
3" = 1'-0"



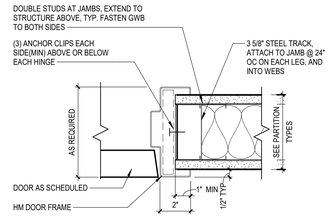
DOOR JAMB @ CMU WALL W/ FURRING 23
3" = 1'-0"



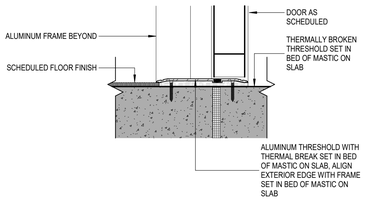
DOOR JAMB @ CMU WALL W/ FURRING 22
3" = 1'-0"



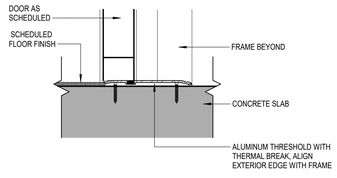
DOOR JAMB @ CMU WALL 21
3" = 1'-0"



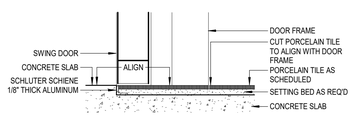
DOOR JAMB @ MTL. STUD WALL 20
3" = 1'-0"



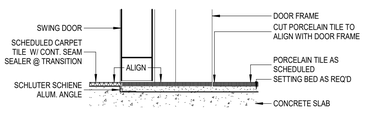
DOOR SILL @ CONCRETE SLAB 14
3" = 1'-0"



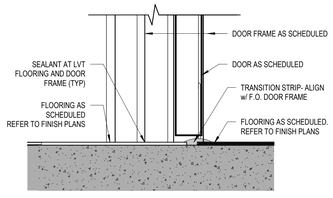
DOOR SILL @ CONCRETE SLAB 13
3" = 1'-0"



DOOR SILL @ TILE TO CONCRETE 12
3" = 1'-0"



DOOR SILL @ CARPET TO TILE 11
3" = 1'-0"



TRANSITION @ DOOR SILL 10
3" = 1'-0"

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

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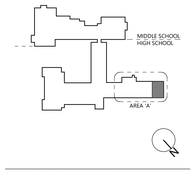

SED PROJECT NO.	66-08-01-06-0-005-025
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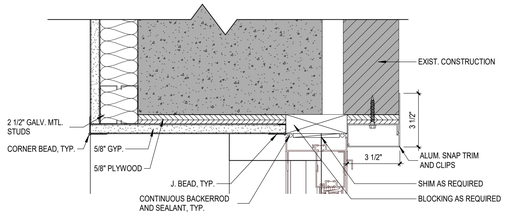
DOOR DETAILS

A902

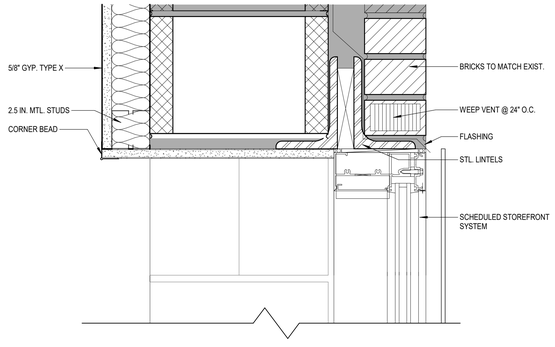
SHEET NOTES

KEY NOTES



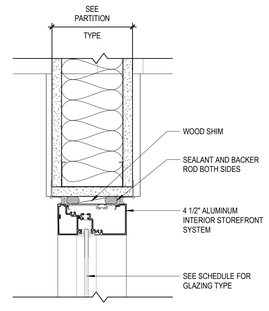
WINDOW JAMB DETAIL 33

3" = 1'-0"



HEAD DETAIL 32

3" = 1'-0"



HEAD DETAIL 31

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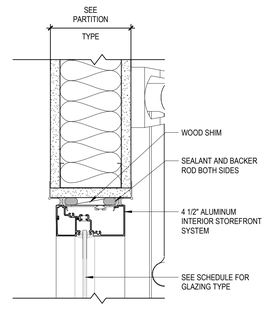

HEAD DETAIL 30

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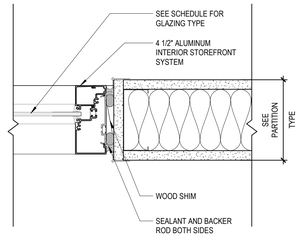

JAMB DETAIL 13

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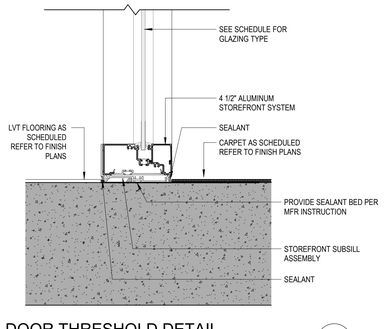
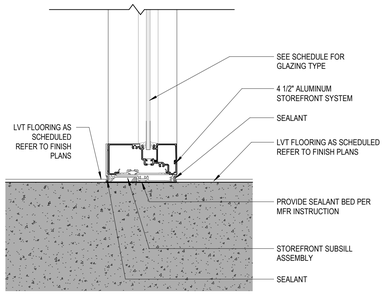


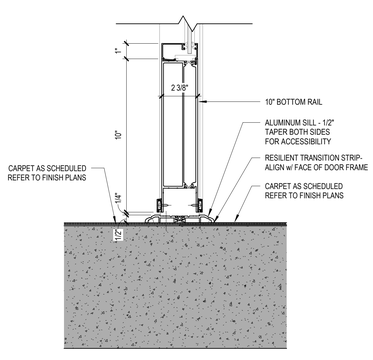
DOOR THRESHOLD DETAIL 12

3" = 1'-0"



DOOR THRESHOLD DETAIL 11

3" = 1'-0"



DOOR THRESHOLD DETAIL 10

3" = 1'-0"

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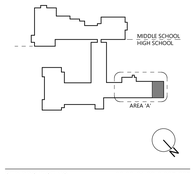
KEY PLAN



SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

STOREFRONT DETAILS

A903

SHEET NOTES

A. PROVIDE VINYL ADHESIVE IDENTIFICATION STICKERS 4 IN. HIGH BLACK LETTERS ON WHITE BACKGROUND, APPLIED ON THE LOWER RIGHT CORNER OF THE RESCUE WINDOW, OR AS OTHERWISE NOTED.

B. VINYL STICKERS TO BE APPLIED ON EVERY EXTERIOR WINDOW

C. SEE VINYL MESSAGE ON THE SCHEDULE COLUMN

D. THE VINYL SHALL BE APPLIED FROM THE INTERIOR AND TO BE READ FROM THE EXTERIOR

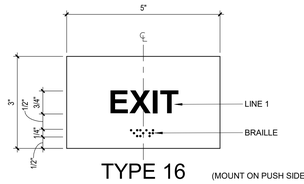
E. REMOVE ALL EXISTING SIGNS THAT WILL BE REPLACED BY THE SIGNS ON THESE CONTRACT DRAWINGS

F. AFTER REMOVING NUMBER SIGNS ON DOOR FRAMES, THE EXPOSED FRAME AND EVENTUAL HOLES SHALL BE PATCHED AND PAINTED TO MATCH EXISTING CONDITION

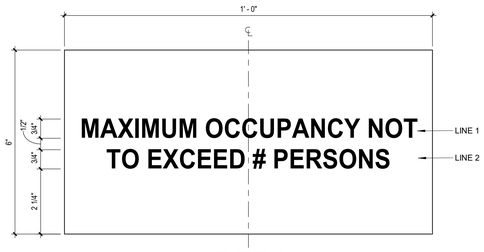
G. WHEN A SIGN IS REMOVED FROM A WALL, PARTITION, SIDELIGHT, OR OTHER SURFACE, THE EXISTING SURFACE BENEATH SHALL BE RESTORED TO MATCH EXISTING SURROUNDING CONDITIONS

H. PROVIDE BACK COVER PLATE FOR SIGNS ATTACHED ON GLAZING

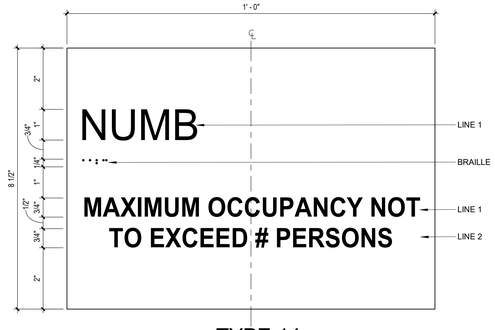
KEY NOTES



TYPE 16 (MOUNT ON PUSH SIDE OF DOOR)



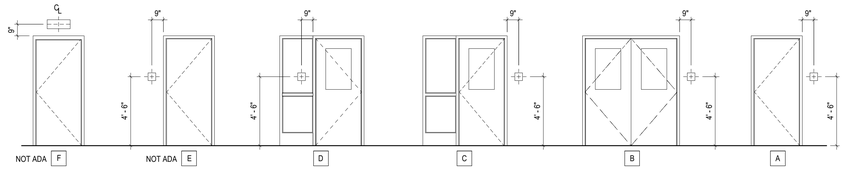
TYPE 15



TYPE 14

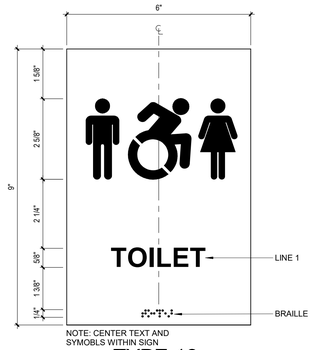
PPS SIGNAGE LEGEND								
PROPOSED					MESSAGE			
ROOM NUMBER	ROOM NAME	LOCATION	QUANTITY	SIGN TYPE	NUMBER	TEXT	REMARKS	VINYL
010	VESTIBULE	B	1	1	010	PUPIL PERSONNEL SERVICES		
011	OFFICE	D	1	1	011	OFFICE	MOUNTED ON GLAZING	
012	OFFICE	D	1	1	012	OFFICE	MOUNTED ON GLAZING	
012	OFFICE	D	1	1	012	OFFICE	MOUNTED ON GLAZING	
016	OFFICE	D	1	1	016	OFFICE	MOUNTED ON GLAZING	
017	ST / COPY	D	1	1	017	STORAGE / COPY	MOUNTED ON GLAZING	
018	MECH	A	1	2	---	MECHANICAL		
019	TOILET	A	1	12	019	AS PER SIGN TYPE		
019A	MECH	F	1	2	---	MECHANICAL		
020	CONF	D	1	1	020	CONFERENCE	MOUNTED ON GLAZING	
021	ELEC CL	F	1	2	---	ELECTRICAL		

SIGNAGE COLOR
BACKGROUND: PANTONE 19-3952 TCX
LETTERS: PANTONE 11-0601 TCX



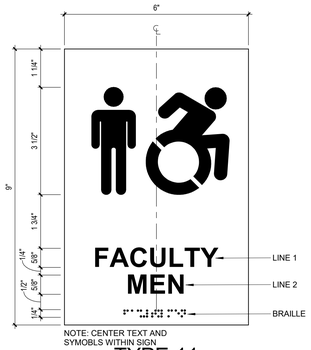
NOTES:
1. SIGN LOCATION SHALL COMPLY WITH ADA REQUIREMENTS
2. SIGNS CONTAINING BRAILLE SHALL BE LOCATED ALONGSIDE THE DOOR AT THE LATCH SIDE. AT DOUBLE DOORS, SIGN SHALL BE TO THE RIGHT OF THE RIGHT-HAND DOOR.
3. FOR SIGN TYPE 'E' WHEN IT IS NOT POSSIBLE TO LOCATE AS SHOWN ON ELEVATION, LOCATE THE SIGN AS INDICATED ON PLANS

SIGN LOCATION
1/4" = 1'-0"



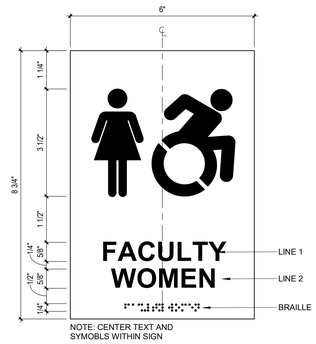
NOTE: CENTER TEXT AND SYMOBLS WITHIN SIGN

TYPE 12



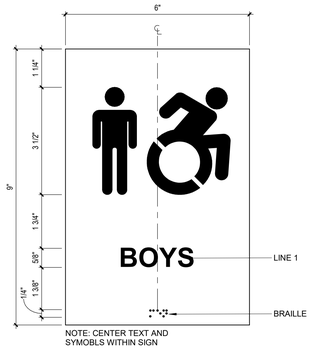
NOTE: CENTER TEXT AND SYMOBLS WITHIN SIGN

TYPE 11



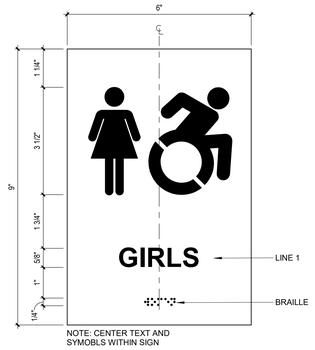
NOTE: CENTER TEXT AND SYMOBLS WITHIN SIGN

TYPE 10



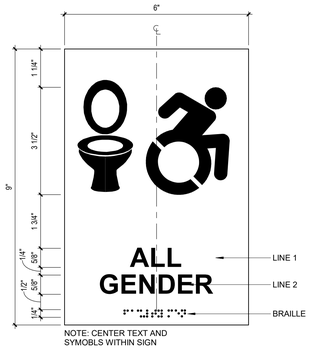
NOTE: CENTER TEXT AND SYMOBLS WITHIN SIGN

TYPE 9



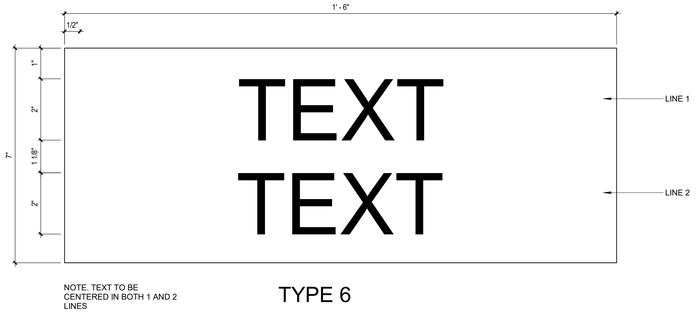
NOTE: CENTER TEXT AND SYMOBLS WITHIN SIGN

TYPE 8



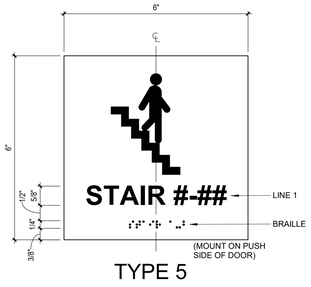
NOTE: CENTER TEXT AND SYMOBLS WITHIN SIGN

TYPE 7

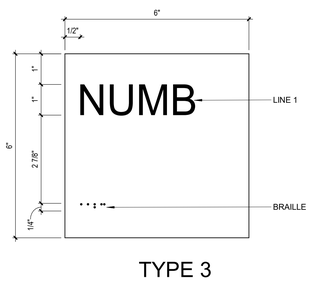


NOTE. TEXT TO BE CENTERED IN BOTH 1 AND 2 LINES

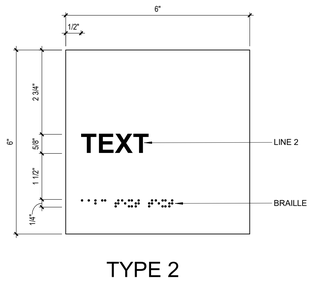
TYPE 6



TYPE 5



TYPE 3



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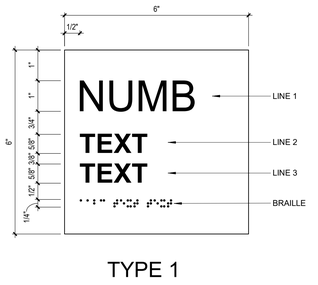

TYPE 1

SIGN TYPES
6" = 1'-0"

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

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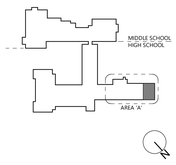
SEAL

ISSUED FOR BID	06/21/2024
ISSUE	DATE

KEY PLAN



SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

SIGN TYPES

A905

SHEET NOTES

A. REFER TO FINISH SCHEDULE ON FE001

B. CEILINGS, STRUCTURE, MECHANICAL AND PLUMBING ITEMS TO BE PAINTED AS PER FINISH PLANS AND RCP'S

FINISH NOTE

MANUFACTURER'S NAMES AND FINISH INFORMATION ARE INDICATED AS REFERENCE TO THE ARCHITECT'S BASIS-OF-DESIGN SELECTIONS AND HAVE BEEN DETERMINED PRIOR TO BID. THE CONTRACTOR AND OWNER ARE HEREBY NOTIFIED THAT FINISHES INSTALLED IN THE WORK ARE SUBJECT TO CHANGE IN RESPONSE TO SUBMITTALS, CONFIRMED SELECTIONS, PRODUCT AVAILABILITY AND THE SUBSEQUENT COORDINATION OF FINISHES BY ARCHITECT AND MAY DIFFER FROM PRODUCTS LISTED HEREIN.

KEY NOTES

N1 PROVIDE TOP LEVELING CONCRETE PRIOR TO INSTALL OF FINISHES

ABBREVIATIONS

ABP	ACOUSTICAL BLADE PANELS
ACT	ACOUSTICAL CEILING TILE
CFT	CERAMIC FLOOR TILE
CPT	CARPET TILE
CTB	CERAMIC TILE BASE
CWT	CERAMIC WALL TILE
GYP	GYPSUM BOARD
LVT	LUXURY VINYL TILE
PCON	POLISHED CONCRETE
PNT	PAINT
PT	PORCELAIN TILE
WD	WOOD
WM	WALK-OFF MAT STAINLESS STEEL
EXIST	EXISTING
TERR	TERRAZZO

HATCH LEGEND

AREAS OF NO WORK

EARTH

FINISH LEGEND

WALL FINISH / BASE FINISH / FLOOR FINISH / CEILING FINISH — INTERIOR FINISH TAG, REFER TO AF100 DRAWINGS

CHANGE IN FINISH MATERIAL

L-1

LVT-2

CONCRETE

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOOR		WALL FINISH	ACCENT WALL	CEILING
		FINISH	BASE			
010	VESTIBULE	ETR. WM-1	PNT.	PNT-6	-	ACT-1
011	OFFICE	CPT-1	RB-1	PNT-4, PNT-6	PNT-4	ACT-1
012	OFFICE	CPT-1	RB-1	PNT-4, PNT-6	PNT-4	ACT-1
013	OFFICE	CPT-1	RB-1	PNT-4, PNT-6	PNT-4	ACT-1
014	ADMIN	CPT-2, CPT-3	RB-1	PNT-4, PNT-6	PNT-4	PNT-5
015	ADMIN	CPT-2, CPT-3	RB-1	PNT-4, PNT-6	PNT-4	PNT-5
016	OFFICE	CPT-1	RB-1	PNT-6	-	ACT-1
017	ST / COPY	LVT-3	RB-1	PNT-6	-	ACT-1
018	MECH	-	RB-1	PNT-6	-	ACT-1
019	TOILET	PT-1	CWT-3	CWT-1,CWT-2,PNT-6,PNT-8	CWT-2, PNT-8	ACT-3
019A	MECH	-	RB-1	PNT-6	-	-
020	CONF.	CPT-1	RB-1	PNT-6	-	ACT-1
021	ENTRANCE LOBBY	CPT-2, CPT-3, LVT-3	RB-1	PNT-6	PNT-5	ACT-2
022	ELEC. CL	LVT-3	RB-1	PNT-6	-	ACT-1
023	WAITING	CPT-2, CPT-3	RB-1	PNT-4, PNT-6	PNT-4	PNT-6
023	COLLABORATION SPACE	CPT-2, CPT-3	RB-1	PNT-4, PNT-6	PNT-4	ACT-2, PNT-4

SCHEDULE OF FINISH MATERIALS

TAG	MATERIAL	MANUFACTURER	STYLE / TYPE	COLOR	SIZE	NOTES
CPT-1	CARPET TILE	SHAWCONTRACT	ARRANGE TILE 5T294	BLUE BELLE 94486	24" x 24"	
CPT-2	CARPET TILE	SHAWCONTRACT	SUPPORT TILE 5T267	NETWORK 67535	12" x 48"	
CPT-3	CARPET TILE	SHAWCONTRACT	CONVENE TILE 5T269	CLEAR NETWORK 67538	12" x 48"	
CWT-1	CERAMIC WALL TILE	DALTILE	COLORMATCH	MATTE ATLANTIS 43 / MATTE	4" x 12"	
CWT-2	CERAMIC WALL TILE	DALTILE	COLORMATCH	CARNATION 48 / MATTE	4" x 12"	
CWT-3	CERAMIC WALL TILE	DALTILE	COLORMATCH / COVEBASE	MATTE ATLANTIS 43 / MATTE	4" x 12"	
CWT-4	CERAMIC WALL TILE	DALTILE	COLORMATCH / BULLNOSE	MATTE ATLANTIS 43 / MATTE	4" x 12"	
CWT-5	CERAMIC WALL TILE	DALTILE	COLORMATCH / COVEBASE	CARNATION 48 / MATTE	4" x 12"	
CWT-6	CERAMIC WALL TILE	DALTILE	COLORMATCH / BULLNOSE	CARNATION 48 / MATTE	4" x 12"	
PT-1	PORCELAIN TILE	DALTILE	PORTFOLIO	ASH GREY RECTANGLE / MATTE	12" X 24"	
WM-1	WALK OFF MAT					
LVT-3	LUXURY VINYL TILE	SHAWCONTRACT	THOUGHTFUL 4122V	GESTURE 22100	24" x 24"	
PNT-4	PAINT	BENJAMIN MOORE		DARK ROYAL BLUE 2065-20	-	
PNT-6	PAINT	BENJAMIN MOORE		CHANTILLY LACE 0C-65	-	
PNT-8	PAINT	BENJAMIN MOORE		VAN DEUSEN BLUE HC-156		
PLAM-1	PLASTIC LAMINATE	FORMICA		SPECTRUM BLUE 851-59 / MATTE FINISH	-	
PLAM-2	PLASTIC LAMINATE	FORMICA		ALABASTER D43-60		
PLAM-3	PLASTIC LAMINATE	FORMICA		KENSINGTON MAPLE 10776-60 / MATTE FINISH		
SS-1	SOLID SURFACE	CORIAN		LINEN	-	
ACT-1	ACOUSTIC CEILING TILE	ARMSTRONG			24" x 24"	
ACT-3	ACOUSTIC CEILING TILE	ARMSTRONG			24" x 24"	
RB-1	RUBBER BASE	ROPPE		TBD	-	
WS-1	WINDOW SHADE	DRAPER		TBD	-	

ENLARGED FINISH PLAN - PUPIL PERSONNEL SERVICES

1/4" = 1'-0"

10

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

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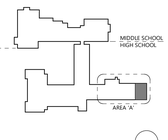
BRIDGEWATER, MA 02324

SEAL

ISSUED FOR BID	06/21/2024
ISSUE	DATE

KEY PLAN



SED PROJECT NO.	66-08-01-06-0-005-025
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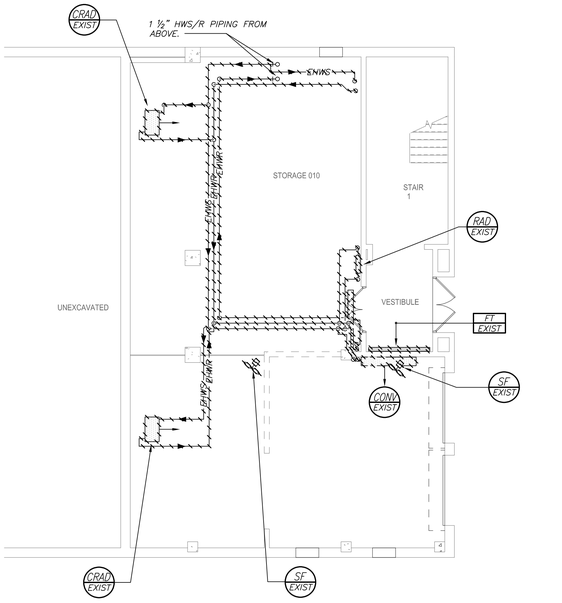
FINISH PLAN - PPS

AF101



HS PPS PART FLOOR PLAN (REMOVALS)

1 / H101

0 8' 16'

1/8 inch=1 foot

REMOVAL NOTES:

1. THE SCOPE OF REMOVAL SHOWN ON "REMOVALS" DRAWINGS IS DIAGRAMMATIC ONLY AND INDICATES THE INTENT OF THE WORK TO BE PERFORMED AND NOT THE COMPLETE SCOPE OF DEMOLITION AND/OR REMOVAL WORK. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO REMOVE ANY RELATED MECHANICAL DEVICES EVEN IF NOT SPECIFICALLY INDICATED TO BE REMOVED ON THESE DRAWINGS IN ORDER TO ACCOMMODATE NEW WORK.
2. DEVICES SHOWN CROSS HATCHED ON DRAWINGS ARE ITEMS TO BE REMOVED. ANY DEVICES REMOVED SHALL INCLUDE (BUT SHALL NOT BE LIMITED TO) THE REMOVAL OF ALL ASSOCIATED PIPING, CONTROLS, ETC. THAT ARE NOT INCORPORATED IN THE NEW LAYOUT, UNTIL SUCH REMOVAL IS COMPLETE. THIS CONTRACTOR SHALL PERFORM ALL WORK REQUIRED TO INSURE CONTINUITY OF SERVICE TO EXISTING REMAINING EQUIPMENT. NO EXTRAS RELATING TO THE SCOPE OF WORK DESCRIBED WILL BE ALLOWED.
3. EQUIPMENT, PIPING, ETC., REQUIRED TO RECONNECT SHALL BE INSTALLED CONCEALED WITHIN THE NEW SUSPENDED CEILINGS, PARTITIONS AND/OR WALLS, FLOORS, NO SURFACE MOUNTED OR EXPOSED EQUIPMENT, PIPING, ETC., SHALL BE PERMITTED, UNLESS SPECIFICALLY INDICATED.
4. ALL ITEMS TO BE REMOVED SHALL BE REVIEWED WITH THE OWNER PRIOR TO REMOVAL. OWNER SHALL HAVE FIRST SALVAGE RIGHTS. ITEMS THE OWNER WISHES TO KEEP SHALL BE REMOVED WITH CARE AND STORED AS DIRECTED BY OWNER. ITEMS THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY.

HVAC LEGEND

	POINT OF CHANGE IN DUCT SIZE NEW DUCTWORK 1" THERMAL ACOUSTIC LINING–DUCT SIZES ON PLANS ARE CLEAR INSIDE DIMENSIONS
	FLEXIBLE CONNECTION NEW DUCTWORK POINT OF CHANGE IN DUCT SIZE
	SQUARE DUCT TURN WITH TURNING VANES
TYP. –SEE SCHEDULE CFM	NEW 4–WAY CEILING DIFFUSER
TYP. –SEE SCHEDULE CFM	NEW 3–WAY CEILING DIFFUSER
TYP. –SEE SCHEDULE CFM	NEW 2–WAY CEILING DIFFUSER
TYP. –SEE SCHEDULE CFM	CEILING EXHAUST/RETURN REGISTER
TYP. –SEE SCHEDULE CFM	REGISTER/DIFFUSER IDENTIFICATION
D R	DUCT DROP; DUCT RISE
	DUCT MTD. MANUAL AIR VOLUME DAMPER (W/LOCKING DEVICE)
	MOTORIZED AIR VOLUME DAMPER (W/ACCESS DOOR)
	70 & 90° FIRE DAMPER (U.L. APPROVED) & ACCESS DOOR
EHWS	EXISTING HOT WATER HEATING SUPPLY PIPING
EHWR / EHWRR	EXISTING HOT WATER RETURN / HOT WATER REVERSE RETURN PIPING
HWS	HOT WATER HEATING SUPPLY PIPING
HWR / HWRR	HOT WATER RETURN / HOT WATER REVERSE RETURN PIPING
L	LIQUID REFRIGERANT PIPING
S	SUCTION REFRIGERANT PIPING
CD	CONDENSATE DRAIN PIPING
	FLOW DIRECTION WITHIN PIPE CONNECTION TO EQUIPMENT ABOVE
	GATE VALVE (HORIZONTAL/VERTICAL)
	COMBINATION BALANCING & SHUT–OFF VALVE (CIRCUIT SETTER)
	2 – WAY CONTROL VALVE
	CHECK VALVES
	PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP)
	EXPANSION JOINT, ANCHOR AND GUIDES
CUH	CABINET HEATER IDENTIFICATION
ERV	ENERGY RECOVERY UNIT IDENTIFICATION
HP	HEAT PUMP UNIT IDENTIFICATION
FC	INDOOR FANCOIL UNIT IDENTIFICATION
FS	FLOW SELECTOR UNIT IDENTIFICATION
UH	CABINET UNIT HEATER IDENTIFICATION
HWC	HOT WATER CONVECTOR IDENTIFICATION
HC	HOT WATER COIL IDENTIFICATION
DX	DX COIL IDENTIFICATION
EF	EXHAUST FAN IDENTIFICATION
EXHWC	EXISTING HOT WATER CONVECTOR IDENTIFICATION
EXRAD	EXISTING CEILING RADIATOR IDENTIFICATION
EF	EXISTING SUPPLY AIR FAN IDENTIFICATION
F.T.	EXISTING FIN TUBE RADIATION IDENTIFICATION
T	TO CONTROLLED ITEM WALL MTD.(5 –2 ±.A.F.F–U.O.N.) TEMPERATURE SENSOR
U	DOOR UNDERCUT
CD	CEILING DIFFUSER
CR	CEILING REGISTER
TR	TOP WALL REGISTER
CFM	CUBIC FEET PER MINUTE
CV	MOTORIZED CONTROL VALVE
AFF	ABOVE FINISHED FLOOR
OAI/FAI	OUTSIDE (FRESH) AIR INTAKE
HVAC	HEATING, VENTILATING, AIR CONDITIONING CONTRACTOR
FC	FLEXIBLE CONNECTION
FSC	FULL SIZE CONNECTION
AD	ACCESS DOOR
FD	FIRE DAMPER
	POINT OF DISCONNECTION
	POINT OF CONNECTION, NEW TO EXISTING
	SECTION/DETAIL/ELEVATION/PART PLAN NUMBER DRAWING NUMBER SECTION/ELEVATION IDENTIFICATION

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DBE: TAB: Layout1 – Y:\MT PLEASANT CSD\Mt. Pleasant CSD – MS Maker Space Renovation (2235.00)\Drawings\HVAC\XF223500–H101 MECHANICAL.dwg – DATE: Jun 20, 2024 – 5:40pm

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2024 WLHS PPS PROJECT

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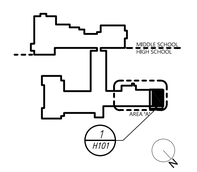
THE LA GROUP
40 LONG ALLEY
SARATOGA SPRINGS, NY 12866

SECURITY CONSULTANT
BUILDING TECHNOLOGY CONSULTING
992 BEDFORD STREET
BRIDGEWATER, MA 02324

SEAL

ISSUE	DATE
ISSUED FOR BID	06/21/2024

KEY PLAN



SED PROJECT NO. 66-08-01-06-0-005-025

MEMASI PROJECT NO. 107-2201

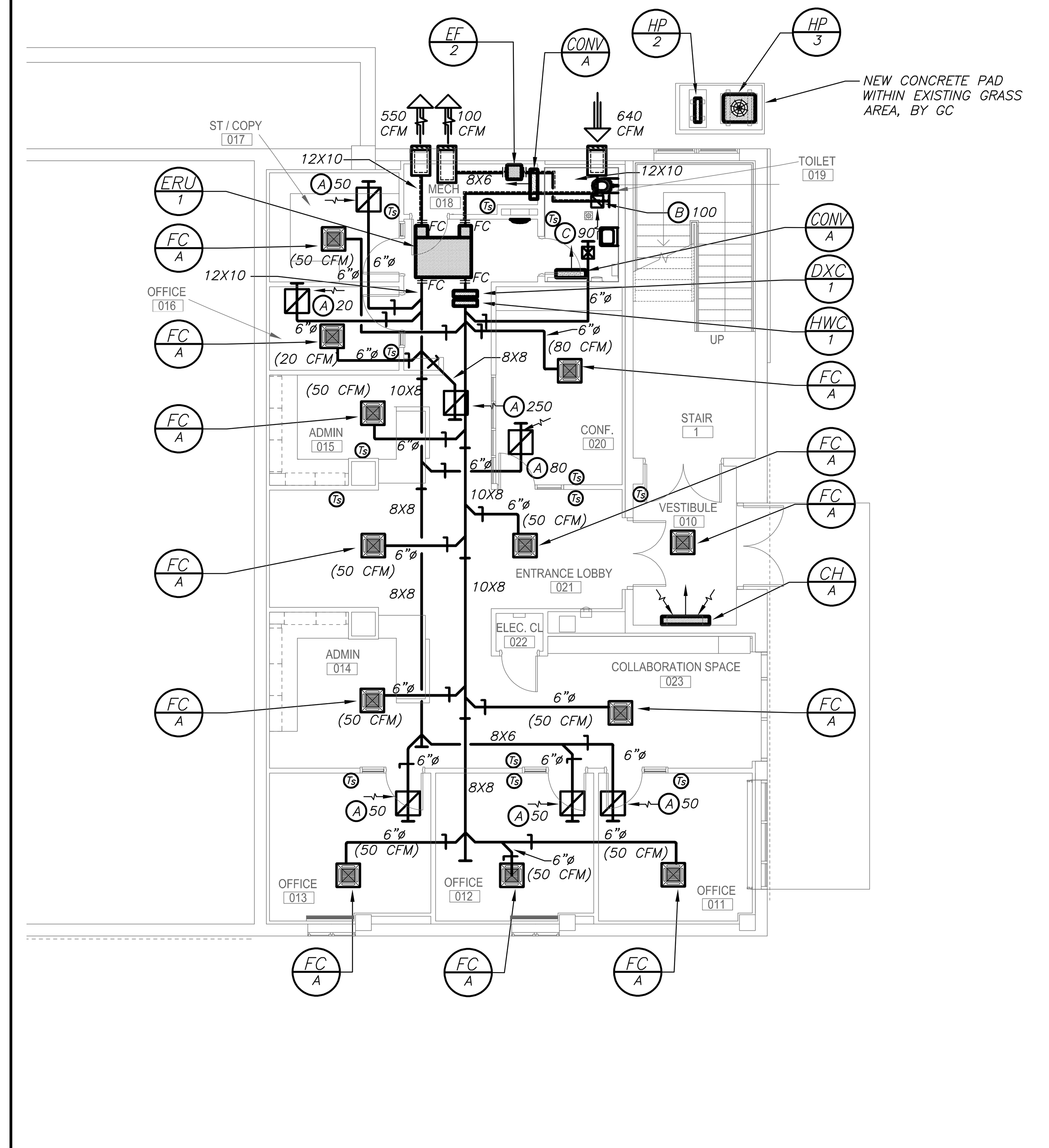
LEGEND, NOTES & PARTIAL FLOOR PLAN PPS

H101

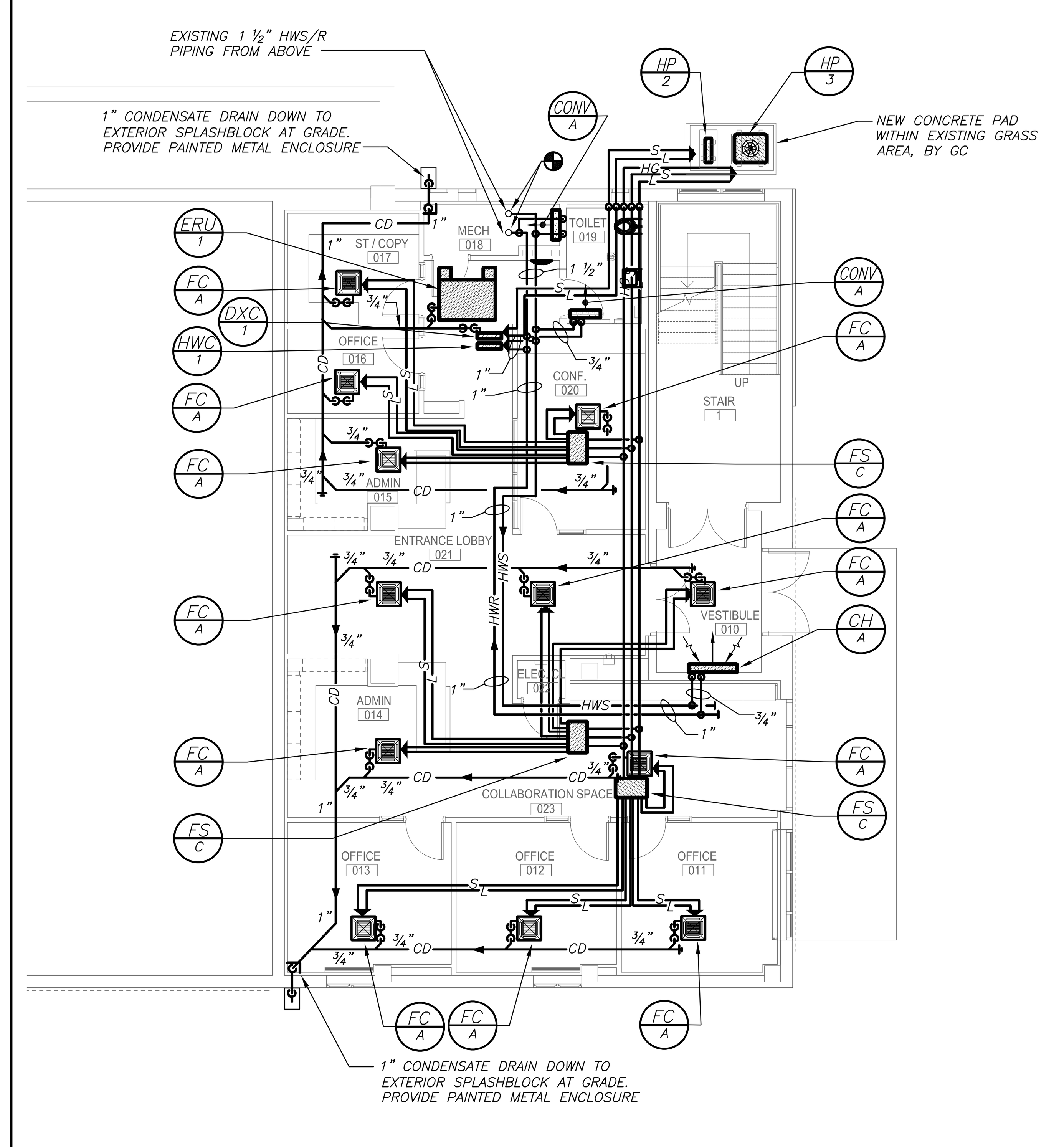
GENERAL PIPING NOTES

VRF SYSTEM:
THE CONTRACTOR SHALL RETAIN THE SERVICES OF THE MANUFACTURER'S REPRESENTATIVE FOR PURPOSES OF PROVIDING REFRIGERANT PIPING SIZING.

CONDENSATE SYSTEM:
THE CONTRACTOR SHALL PROVIDE ALL CONDENSATE DRAINAGE PIPING FROM ALL CASSETTE UNITS AND ENERGY RECOVERY UNIT, AND DISCHARGE TO EXTERIOR SPLASHBLOCKS.



HS PPS PART FLOOR PLAN 1/H201
(NEW WORK)
1/8 inch=1 foot



HS PPS PART FLOOR PLAN 2/H201
(NEW WORK)
1/8 inch=1 foot

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WLHS PPS PROJECT

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WHITE PLAINS, NY 10601
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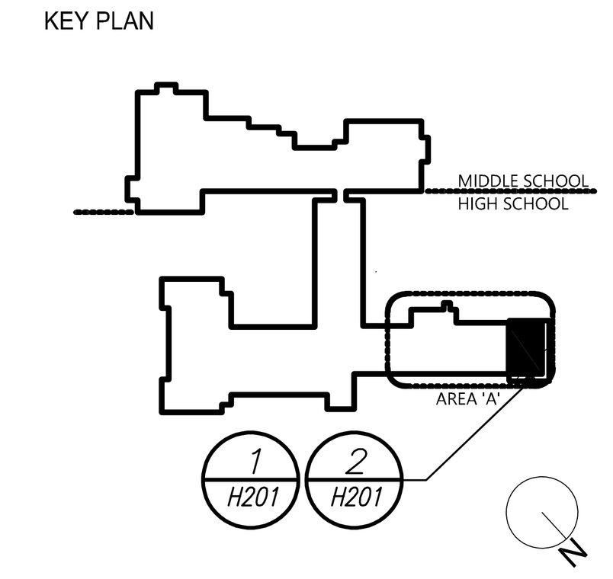

SED PROJECT NO.
MEMASI PROJECT NO.

FLOOR PLANS & NOTES
PPS

H201

SCHEDULE OF MINIMUM VENTILATION ROOM FLOW RATES - MT. PLEASANT HS/MS

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	A ROOM AREA (SQ.FT.)	B PEOPLE DENSITY (#P/1000 SQ.FT.)	C PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	D AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	F NUMBER OF PEOPLE (A×B)÷1000= #P	G OUTDOOR AIR FLOW RATE WITHOUT ZONE EFFECTIVENESS FACTOR (F×C)+(A×D)=CFM	H ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	I MINIMUM ROOM VENTILATION AIR FLOW RATE G÷H=CFM	MINIMUM EXHAUST AIR FLOW RATE A×E=CFM
Crawl Space	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	3100	NOT USED	2	5	0.06	0	7	221	0.8	276	0
007 Makerspace	WOOD/METAL SHOP	1100	20	10	0.18	0.5	22	418	0.8	523	550
007A Woodshop	WOOD/METAL SHOP	1155	20	10	0.18	0.5	24	448	0.8	560	578
007B Storage	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	50	2	5	0.06	0	1	8	0.8	10	0
023 Collaboration Space	OFFICE SPACE	310	5	5	0.06	0	4	39	0.8	48	0
014 Admin	OFFICE SPACE	170	5	5	0.06	0	1	15	0.8	19	0
015 Admin	OFFICE SPACE	125	5	5	0.06	0	1	13	0.8	16	0
020 Conference	CONFERENCE/MEETING	180	50	5	0.06	0	9	56	0.8	70	0
016 Office	OFFICE SPACE	80	5	5	0.06	0	2	15	0.8	19	0
017 ST/Copy	COPY, PRINTING ROOMS	100	0	0	0	0.5	0	0	0.8	0	50
019 Toilet	TOILETS - PUBLIC	60	1 FIXTURES	-	-	50 CFM/ FIXTURE	-	-	-	-	50
013 Office	OFFICE SPACE	170	5	5	0.06	0	1	15	0.8	19	0
012 Office	OFFICE SPACE	170	5	5	0.06	0	1	15	0.8	19	0
011 Office	OFFICE SPACE	170	5	5	0.06	0	1	15	0.8	19	0

SCHEDULE OF VRF DUCTLESS AIR SOURCE HEAT RECOVERY OUTDOOR UNITS

MARK	SERVICE	MODEL No. (1)	CAPACITY COOL/HEAT (MBH)	PHYSICAL DATA UNIT WEIGHT (POUNDS)	D	W	H	ELECTRICAL SUPPLY SERVICE	MCA	MOP	EFFICIENCY EER	REMARKS
HP 3	PPS ERU DUCT COIL	ARUN024GSS4	24 / 27	159	1.3	38	33	208/1/60	19.6	30	15.5	REFER TO 2 3 4 5 6 7 8
HP 4	PPS CASSETTES	ARUM072BTE5	72 / 81	430	30	37	67	208/3/60	22.6	35	15.0	REFER TO 2 3 4 5 6 7 8

NOTES
1. AS MANUFACTURED BY "LG." (KLIMA NEW YORK 914 255-4390)
2. BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.
3. INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE DC INVERTER COMPRESSOR SPEED CONTROL BASED ON SYSTEM LOAD.
5. UNIT SHALL BE CONTROLLED VIA MANUFACTURER'S DDC NETWORK CONTROLLER TO INDOOR HARDWIRED CONTROLLER.
6. PROVIDE LOW AMBIENT CONTROL, HARD START, CRANKCASE HEATER, DISCONNECT SWITCH. THE VRF SYSTEM SHALL BE ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS.
7. PROVIDE ELECTRONIC EXPANSION VALVE KIT AND AHU/ERU COMMUNICATION CONTROL KIT (ONE FOR EACH DX COIL PROVIDED). PROVIDE NEMA WEATHERPROOF ENCLOSURES FOR EEV KITS INSTALLED OUTDOORS. ALL UNITS MUST HAVE BACNET COMMUNICATIONS TIED INTO BMS SYSTEM CONTROLS. COMMUNICATION CONTROL KIT REQUIRES 208/1/60 POWER REQUIREMENTS. PROVIDE "PRVC2" OUTDOOR UNIT MULTI APPLICATION I/O MODULE.
8. INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

SCHEDULE OF REGISTERS AND DIFFUSERS

MARK	TYPE	SERVICE	MODEL No. (1)	DIRECTION DISCHARGE	DAMPER TYPE	FINISH	TYPE	REMARKS
A	CEILING REGISTER	RETURN	535	–	OPPOSED BLADE	PER ARCH.	2X2 LAY IN	REFER TO 2 3 4 7
B	CEILING REGISTER	EXHAUST	535	–			1X1 LAY IN	REFER TO 2 3 4 7
C	CEILING DIFFUSER	SUPPLY	SCD	4-WAY			1X1 LAY IN	REFER TO 2 3 4 6

NOTES
1. AS MANUFACTURED BY "PRICE".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE MOUNTING FRAME COMPATIBLE W/ MOUNTING SURFACE. COORDINATE ALL BORDER TYPES, COLORS, FINISHES AND DIMENSIONS WITH ARCHITECT.
4. STEEL CONSTRUCTION.
5. ALUMINUM CONSTRUCTION.

6. SUPPLY NECK SIZE PER CFM RANGE (NOT TO EXCEED 500 fpm)

50 TO 99	100 TO 299	300 TO 499	500 TO 799	800 TO 1199	1200 TO 1499	1500 TO 1999
6x6	9x9	12x12	15x15	18x18	21X21	24X24

7. RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)

50 TO 149	150 TO 249	250 TO 399	400 TO 599	600 TO 799	800 TO 1099	1100 TO 1199	1200 TO 2399
6x6	8X8	10X10	12X12	14X14	16X16	18X18	24X24

SCHEDULE OF EXHAUST FANS

MARK	SERVICE	LOCATION	MODEL No. (1)	TYPE	CFM	EXT. S.P. IN H_2O	RPM	HP (WATTS)	ELECTRIC V/PH/HZ	SIZE (IN)	WEIGHT (LBS.)	REMARKS
EF 2	PPS TOILET	MECHANICAL ROOM	CSP-A200	IN-LINE	150	0.5	825	(56.8)	120/1/60	14Lx12Wx12H	23	REFER TO 2 3

NOTES
1. AS MANUFACTURED BY "GREENHECK".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE VIBRATION ISOLATORS, BACKDRAFT DAMPER, SPEED CONTROL, DISCONNECT SWITCH, AND NAMEPLATE IDENTIFYING FAN MARK, MODEL NO., CFM, RPM, HP, AND ELECTRICAL SERVICE.

SCHEDULE OF DUCT MOUNTED D/X COILS

MARK	SERVICE	CLG. CAPACITY BTU/HR	HTG. CAPACITY BTU/HR	E.A.T. (°F)	L.A.T. (°F)	CFM	COIL FACE AREA SQ.FT.	COIL FACE VELOC.FPM	ROWS	REMARKS
CUH 1	SPT 1	22,600	27,000	90	58	640	–	400	–	REFER TO 1 2 3 4 5

NOTES
1. AS MANUFACTURED BY "NATIONWIDE COILS INC."
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. BASED ON A.R.I. CERTIFIED COIL SELECTIONS. REFRIGERANT R-410.
4. PROVIDE DUCT MOUNTED CASED DX COOLING/HEATING COIL SECTION SUPPORTED FROM STRUCTURE ABOVE, MOUNTING HARDWARE, ACCESS DOORS ON BOTH SIDES OF COIL, ASSOCIATED PIPING, CONTROLS AND APPURTENANCES.
5. PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM. KITS SHALL BE FIELD INSTALLED. AHU KIT REQUIRES 208/1/60 POWER.

SCHEDULE OF VRF DUCTLESS HEAT RECOVERY INDOOR UNITS

MARK	LOCATION	MODEL No. (1)	INDOOR AIR HANDLER INFORMATION: SUPPLY FAN DATA HIGH CFM	MOTOR (AMPS)	ELECTRIC SERVICE	COOLING COIL DATA (2) TOTAL CAP. BTU/HR	SENSIBLE CAP. BTU/HR	ENT. AIR TEMP. DB/WB	HEATING TOTAL CAP. BTU/HR	ENT. AIR TEMP.	REMARKS
FCU A	CEILING	ARNU093TRD4	283	0.20	208/1/60	9,600	9,000	77 / 57	10,900	59	REFER TO 2 3 4 5 6

NOTES
1. AS MANUFACTURED BY "LG." (KLIMA NEW YORK 914 255-4390)
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.
4. PROVIDE FACTORY MOUNTED INTEGRAL CONDENSATE PUMP, CHECK VALVE, ANTI SWEAT SLEEVE AND AUTO SHUTDOWN OVERFLOW SWITCH.
5. PROVIDE MOUNTING HARDWARE, VIBRATION ISOLATORS, DISCONNECT, AND HARDWIRED REMOTE WALL MOUNTED THIRD PARTY CONTROLLER/THERMOSTAT.
6. THE VRF SYSTEM SHALL BE ABLE TO INTEGRATE WITH THE BUILDING MANAGEMENT SYSTEM VIA BACNET IP GATEWAY. THIS GATEWAY CONVERTS BETWEEN BACNET IP OR MODBUS TCP PROTOCOL, AND RS-485 LGAP (LG AIRCON PROTOCOL) ALLOWING THIRD PARTY CONTROL AND MONITORING OF THE LG A/C SYSTEM, OR LONWORKS GATEWAYS.

SCHEDULE OF CABINET HEATERS

MARK	TYPE UNIT	MODEL NO. (1)	CAPACITY DATA MBH	CFM	GPM	PD,FT	MOTOR WATTS	MOTOR RPM	ELECTRIC SERVICE	REMARKS
CH 4	WALL	W 1070 03	22.7	335	2.0	0.26	1/15	1050	120/1/60	REFER TO 2 3 4 5 6

NOTES
1. AS MANUFACTURED BY "STERLING".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. CAPACITIES BASED ON LOW SPEED FAN SETTING, AND 170 A.W.T.
4. PROVIDE 2 ROW COIL, THROWAWAY FILTERS, INTEGRAL SPEED CONTROL, DISCONNECT SWITCH, REMOTE WALL SENSOR CONNECTED TO BMS, GASKET AND PERMA LAP FRAME. COORDINATE FINISH AND COLOR WITH ARCHITECT.
5. UNIT DIMENSIONS 36"x25"x9.5", WEIGHT 150 LBS.
6. PROVIDE WITH HOT WATER RETURN AQUASTAT. AQUASTAT SHALL NOT ALLOW FAN TO OPERATE AT WATER TEMPERATURE BELOW 98 DEGREES F.

SCHEDULE OF ENERGY RECOVERY UNITS

MARK	SERVICE	LOCATION	OAI	MODEL No. (1)	SUPPLY FAN DATA CFM	MOTOR HP	E.S.P. IN WC	RETURN-EXH. FAN DATA CFM	MOTOR HP	E.S.P. IN WC	ELECTRICAL DATA MCA	MOP	ELECTRICAL SERVICE	HEAT EXCHANGER MODEL	THERMAL EFFICIENCY (%)	HOT WATER HEATING COIL DATA (3) MARK	CAPACITY TOTAL MBH	E.A.T. °F	L.A.T. °F	GPM	FILTER TYPE	PHYSICAL DATA LxHxW(in.)/WEIGHT(lbs)	REMARKS
ERU 1	PPS RENOVATION	PPS CEILING	640	U-ERV-600	640	–	1.0	550	–	0.75	8.3	15	208/1/60	HEAT WHEEL	75	HWC 1	–	–	–	–	2" MERV 13	57x12x69/96	REFER TO 2 3 4 5 6

NOTES
1. AS MANUFACTURED BY "ENERGYWALL" (KLIMA NEW YORK 914 255-4390)
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. DUCT MOUNTED COIL BASED ON ENTERING/LEAVING WATER TEMPERATURES HW 180/160°.
4. PROVIDE UNIT WITH MERV 13 FILTERS, DX VRF COOLING/HEATING COIL WITH DRAIN PAN, ECM MOTORS, 100% ECONOMIZER, DRY CONTACTS FOR DIRTY FILTER INDICATOR, FROST CONTROL, PHASE PROTECTION, DISCONNECT SWITCH, AND MOTORIZED DAMPERS FOR OA, EA.
5. PROVIDE EEV KIT AND COMMUNICATION KIT FOR D/X COIL OPERATION WITH LG VRF SYSTEM.
6. INDICATED EQUIPMENT DESIGNATIONS ARE FOR USE IN CONSTRUCTION ONLY. CONTRACTOR SHALL COORDINATE WITH OWNER ON DESIRED FINAL TAG IDENTIFICATION/NUMBERING/LETTERING. OWNER APPROVED DESIGNATIONS SHALL BE USED IN BMS PROGRAMMING AND ON PERMANENT EQUIPMENT IDENTIFICATION TAGS. AS-BUILT DRAWINGS SHALL BE UPDATED WITH FINAL IDENTIFICATION TAG DESIGNATIONS.

SCHEDULE OF DUCT MOUNTED HOT WATER HEATING COILS

MARK	SERVICE	HTG. CAPACITY BTU/HR	E.A.T. (°F)	L.A.T. (°F)	E.W.T. (°F)	L.W.T. (°F)	GPM	CFM	COIL FACE AREA SQ.FT.	COIL FACE VELOC.FPM	ROWS	REMARKS
HWC 1	SPT 1	55,300	10	90	180	160	4.8	640	–	500	–	REFER TO 1 2 3 4 5 6 7

NOTES
1. AS MANUFACTURED BY "NATIONWIDE COILS INC."
2. AIR PRESSURE DROP ACROSS COIL SHALL NOT EXCEED 0.30" S.P.
3. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
4. COIL SHALL BE MINIMUM 2 ROWS WITH MINIMUM OF 8 FINS PER INCH.
5. 5/8" TUBE AND ALUMINUM FINS.
6. GALVANIZED PITCHED CASING.
7. THE WATER COIL IS SIZED TO HANDLE OUTDOOR AIR QUANTITIES AT 100 PERCENT (WITH ENERGY RECOVERY UNIT IN OPERATION) OF OCCUPANCY WITHOUT HAVING TO RESORT TO CLOSING OUTDOOR AIR INTAKE DAMPERS ON A "DESIGN HEATING DAY" TO PREVENT FREEZE-UP.

SCHEDULE OF VRF FLOW SELECTOR UNITS

MARK	MODEL No. (1)	CAPACITY DATA (BTU/HR) UNIT	PORTS	EACH PORT	MCA	ELECTRIC SERVICE	PHYSICAL DATA LxWxH (IN)	WEIGHT (LBS)	REMARKS
FS A	PRHR023A	120,000	2	60,000	0.17	208/1/60	19X19X9	35	REFER TO 2 3 4
FS B	PRHR033A	180,000	3	60,000	0.17	208/1/60	19X19X9	38	REFER TO 2 3 4
FS C	PRHR043A	230,000	4	60,000	0.17	208/1/60	19X19X9	40	REFER TO 2 3 4

NOTES
1. AS MANUFACTURED BY "LG." (KLIMA NEW YORK 914 255-4390)
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. REFRIGERANT R-410A.
4. PROVIDE MOUNTING HARDWARE. MOUNT UNIT HORIZONTALLY.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

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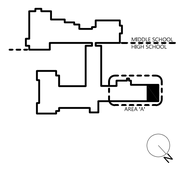
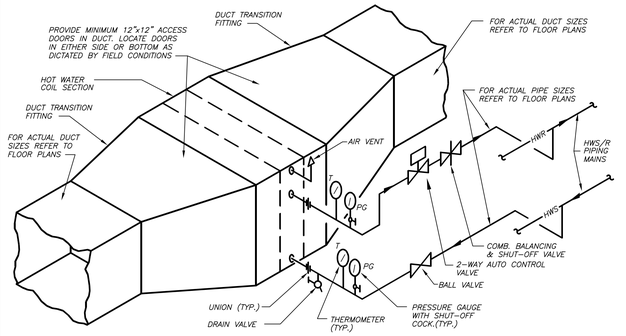


SED PROJECT NO.

MEMASI PROJECT NO.

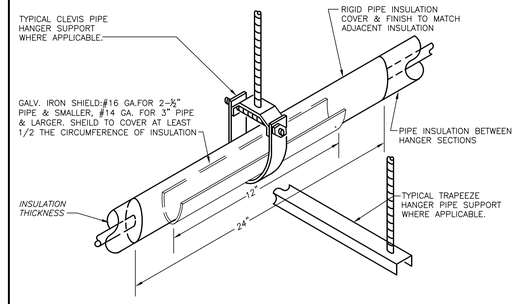
SCHEDULES

H301



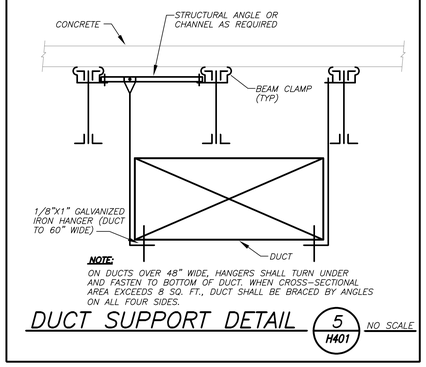
DUCT MTD. WATER COIL PIPING CONNECTION DETAIL

4 / H401 — NO SCALE



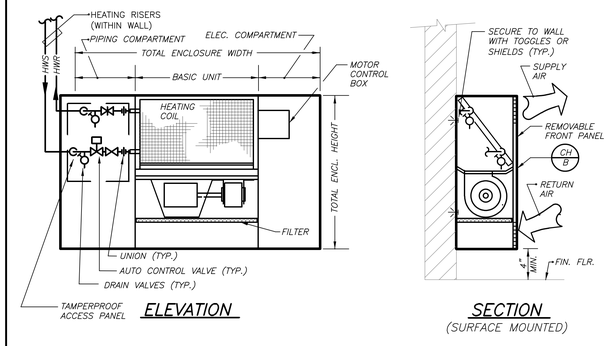
INSULATED PIPE HANGER DETAIL

1 / H401 — NO SCALE



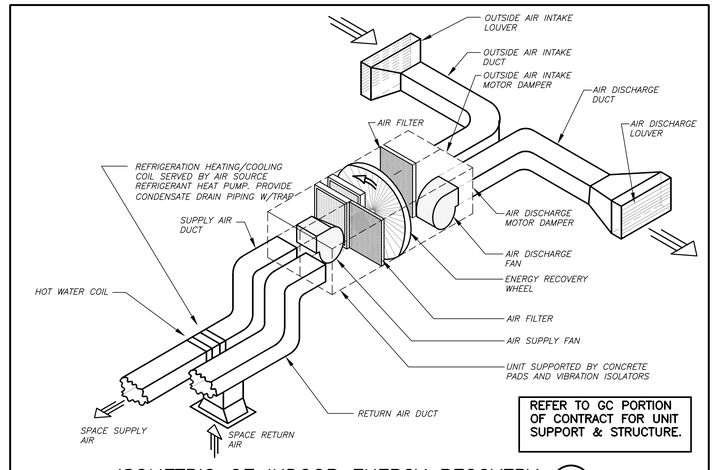
DUCT SUPPORT DETAIL

5 / H401 — NO SCALE



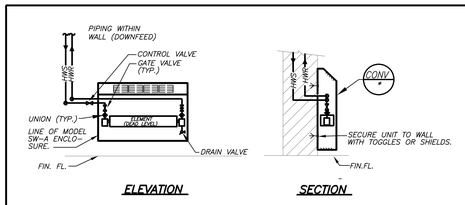
CABINET HEATER DETAIL

2 / H401 — NO SCALE



ISOMETRIC OF INDOOR ENERGY RECOVERY AIR HANDLING UNIT DETAIL

6 / H401 — NO SCALE



CONV. SCHED. BASED ON "STERLING"					
MARK	MBH @ 11.0° A.W.T.	MODEL	DIMENSIONS		
			"D"	"L"	"H"
CONV. A	1.7	SW-A	4"	40"	20"

CONVECTOR DETAIL (WALL MOUNTED)

3 / H401 — NO SCALE

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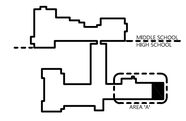
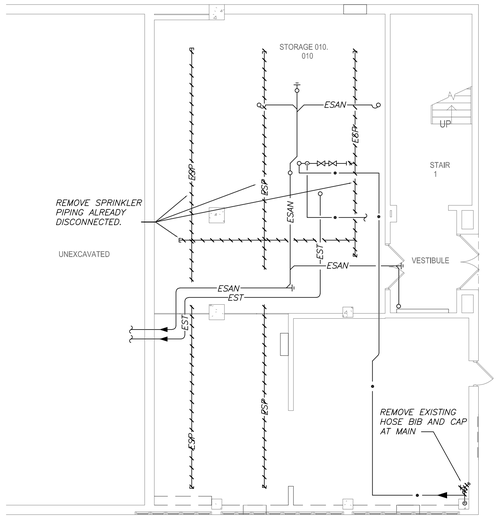


SED PROJECT NO.

MEMASI PROJECT NO.

DETAILS

H401



HS PPS PART FLOOR PLAN (REMOVALS)

1 / P101

0 8' 16'

1/8 inch=1 foot

LEGEND

	EXISTING PIPING, FIXTURES, ETC. TO REMAIN
	NEW PIPING, FIXTURES, ETC.
	COLD WATER PIPING
	HOT WATER PIPING
	HOT RETURN WATER PIPING
PD	PUMP DISCHARGE
	PLUMBING VENT PIPING
ESAN	EXISTING SANITARY PIPING (UNDERGROUND)
EST	EXISTING STORM PIPING
EST	EXISTING STORM PIPING (UNDERGROUND)
SAN	SANITARY PIPING
SAN	SANITARY PIPING (UNDERGROUND)
ST	STORM PIPING
EG	EXISTING GAS PIPING
ESP	EXISTING SPRINKLER PIPING
	FLOW DIRECTION WITHIN PIPE
	CLEANOUT
	CLEANOUT DECK PLATE
	GATE VALVE
	COMBINATION BALANCING & SHUT-OFF VALVE
	OS & Y VALVE
	CHECK VALVE
	GAS SHUT OFF COCK
	PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP)
	PLUMBING FIXTURE IDENTIFICATION
	SEWAGE EJECTOR IDENTIFICATION
P.C.	PLUMBING CONTRACTOR
G.C.	GENERAL CONTRACTOR
HVAC	HVAC CONTRACTOR
VTR	VENT THRU ROOF
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
PRV	PRESSURE REDUCING VALVE
	POINT OF DISCONNECTION
	POINT OF CONNECTION, NEW TO EXISTING

PART PLAN, DETAIL, SECTION NUMBER
DRAWING NUMBER
SECTION IDENTIFICATION

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	BRANCH SIZE W	V	H	C
A	WALL MOUNTED WATER CLOSET (FLUSH VALVE) (HANDICAPPED)	4"	2"	–	1"
B	FLOOR MOUNTED LAVATORY (HANDICAPPED)	2"	1-1/2"	3/4"	3/4"
C	RECESSED BOTTLE FILLER (HANDICAPPED)	2"	1-1/2"	–	3/4"
X	EXISTING FIXTURE TO BE REMOVED	–	–	–	–
R	EXISTING FIXTURE TO REMAIN	–	–	–	–

REMOVAL NOTES

1. REMOVE ALL PLUMBING FIXTURES, EQUIPMENT, SPECIALTIES, DRAINS, CONTROLS, HANGERS, BASES, SUPPORTS, PIPING, VALVES, TUBING AND PLUMBING ACCESSORIES THAT ARE NOT INCORPORATED IN THE NEW LAYOUT.
2. WHERE REMOVAL IS INDICATED OR IMPLIED OR NOT INCORPORATED IN INCLUDES ALL GAS, SANITARY, VENT, WATER, ACID WASTE AND PUMP DISCHARGE PIPING. REFER TO DIVISION I OF SPECIFICATION THE NEW LAYOUT, THE ITEM ITSELF IS TO BE REMOVED COMPLETELY TOGETHER WITH ALL CONNECTING PIPING, SPECIALTIES, SUPPORTS, FOR CUTTING AND PATCHING REQUIREMENTS. CONTROLS, ETC. CONNECTING PIPING IS TO BE REMOVED BACK TO MAINS WHERE THE ARE TO BE CAPPED OR DISCONNECTED. THIS
3. WHERE EXISTING PIPING ENTERS INACCESSIBLE TRENCHES, TUNNELS, SHAFTS, WALLS AND CEILINGS INSIDE THE EXISTING BUILDING, IT SHALL BE CUT BACK AT LEAST 2" INTO SUCH INACCESSIBLE SPACES AND SHALL BE SUITABLY CAPPED AND SEALED BY THE CONTRACTOR.
4. THE CONTRACTOR SHALL EXERCISE NORMAL CAUTION TO PREVENT UNNECESSARY CUTTING AND DAMAGE TO THE EXISTING BUILDING. ANY EXCESSIVE DAMAGE AS DETERMINED BY THE OWNER SHALL BE REPAIRED AND PAID FOR BY THE CONTRACTOR CAUSING THE DAMAGE.
5. ALL DEMOLISHED EQUIPMENT ETC. EXCEPT THOSE ITEMS SPECIFICALLY REQUESTED BY THE OWNER SHALL BECOME THE CONTRACTOR'S PROPERTY, SHALL BE REMOVED FROM THE PREMISES, AND DISPOSED OF LEGALLY.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS.

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WLHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

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SECURITY CONSULTANT
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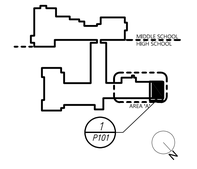
992 BEDFORD STREET
BRIDGEWATER, MA 02324

SEAL

ISSUE	DATE
ISSUED FOR BID	06/21/2024

KEY PLAN

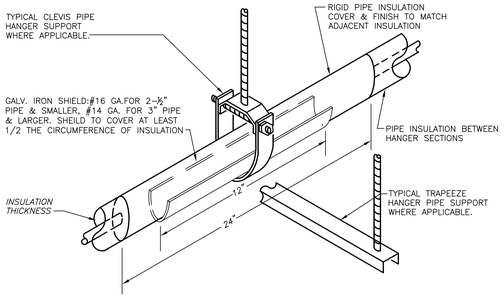


SED PROJECT NO.

MEMASI PROJECT NO.

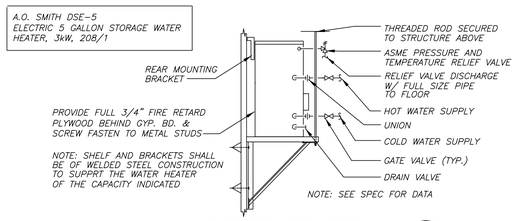
LEGEND, NOTES & PARTIAL FLOOR PLAN PPS

P101



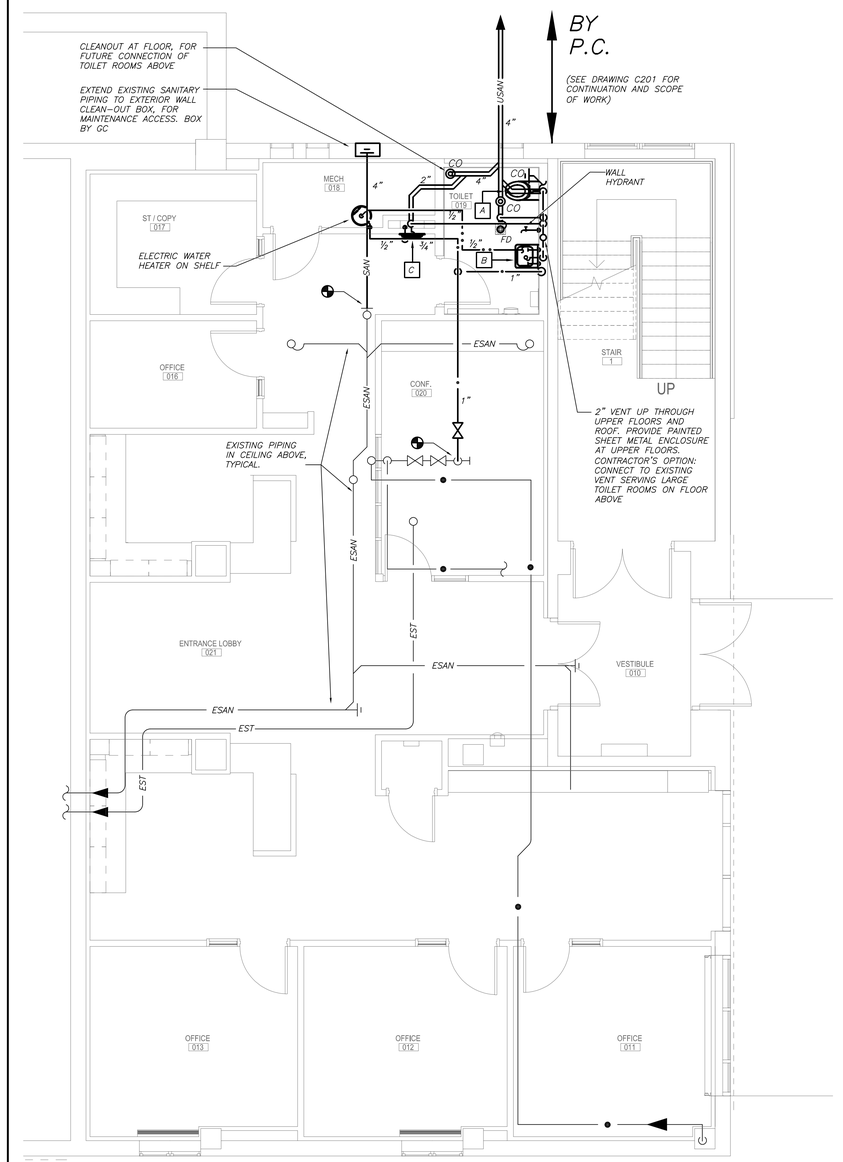
INSULATED PIPE HANGER DETAIL

2 / P201 — NO SCALE



ELECTRIC DOMESTIC HOT WATER HEATER DETAIL

3 / P201 — NO SCALE



HS PPS PART FLOOR PLAN (NEW WORK)

1 / P201 — 1/4 inch=1 foot

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

DBE: TAB: Layout1 – Y:\MT PLEASANT CSD\Mt. Pleasant CSD – MS Maker Space Renovation (2235.00)\Drawings\Plumbing\XF223500–P201 PLUMBING.dwg – DATE: Jun 25, 2024 – 8:40am

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WLHS PPS PROJECT

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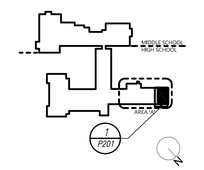
KEY PLAN



SED PROJECT NO. 66-08-01-06-0-005-025

MEMASI PROJECT NO. 107-2201

PARTIAL FLOOR PLAN & DETAILS

PPS

P201

GENERAL NOTES

1. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK. CONTRACTOR SHALL FURNISH ALL NECESSARY OUTLETS, SUPPORTS, FITTINGS AND ACCESSORIES TO FULFILL APPLICABLE CODES, REGULATIONS, BUILDING STANDARDS AND THE BEST PRACTICES OF THE TRADE FOR FIRST CLASS ELECTRICAL INSTALLATION.
2. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALED DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION AND ELEVATION OF ALL ELECTRICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH RESPECTIVE CONTRACTOR/OWNER.
3. WHERE PANELBOARDS, SWITCHES, CIRCUIT BREAKERS, ETC. ARE EXISTING AND TO BE REUSED THE CONTRACTOR SHALL CLEAN AND REFURBISH THE EQUIPMENT. THIS SHALL INCLUDE TIGHTENING ALL CONNECTIONS, REPLACING DEFECTIVE MECHANISMS AND PROVIDING ALL REQUIRED AND NECESSARY MISCELLANEOUS COMPONENTS SO THAT THE EQUIPMENT SHALL BE IN PERFECT WORKING ORDER.
4. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER PRIOR TO SUBMISSION OF BID TO DETERMINE WHAT WORK MUST BE PERFORMED AFTER NORMAL BUSINESS HOURS. UNLESS OTHERWISE DIRECTED ANY NOISY WORK (CHOPPING, CORE DRILLING, HAMMERING, ETC.) AND BUILDING POWER INTERRUPTIONS SHALL BE PERFORMED OUTSIDE OF NORMAL BUSINESS HOURS. CONFIRM NORMAL BUSINESS HOURS WITH BUILDING OWNER. NO ADDITIONAL COST WILL BE CHARGED TO OWNER FOR WORK PERFORMED OUTSIDE NORMAL BUSINESS HOURS.
5. ALL WORK WHERE SHOWN WITH DARK/SOLID LINES ON THE DRAWINGS IS NEW UNLESS OTHERWISE NOTED. WHERE SHOWN WITH DASHED LINES WITH LETTER (E) IS EXISTING TO REMAIN, WITH LETTER (R) IS EXISTING TO BE REMOVED, WITH LETTER (ER) IS EXISTING RELOCATED, WITH LETTER (RN) IS EXISTING TO BE REPLACED WITH NEW AND WITH LETTER (RR) IS EXISTING TO BE REMOVED AND RELOCATED.
6. CIRCUIT NUMBERS TO EXISTING PANELS ARE SHOWN FOR INTENT ONLY. ACTUAL CIRCUIT NUMBERS TO BE USED SHALL BE AS PER FIELD CONDITIONS BY UTILIZING SPARE CIRCUITS, BREAKERS OR SPACES IN EXISTING PANEL, SIZE AS INDICATED ON THE PLANS. THE ELECTRICAL CONTRACTOR SHALL BALANCE LOAD OF CIRCUITS EVENLY ON ALL PHASES.
7. FEEDERS AND BRANCH CIRCUITRY SHALL BE RUN IN MINIMUM 3/4" CONDUIT UNLESS OTHERWISE NOTED. FINAL CONNECTIONS TO MOTORS MAY BE MADE WITH FLEXIBLE METALLIC CONDUIT (NO LONGER THAN 18"). IN UNFINISHED AREAS CONDUIT SHALL BE RUN EXPOSED AND IN FINISHED AREAS CONDUIT SHALL BE RUN CONCEALED.
8. PROVIDE PANEL NAME PLATE MADE OF BLACK LAMINATED PLASTIC WITH WHITE ENGRAVED LETTERING AND TYPE WRITTEN DIRECTORY FOR ALL NEW AND EXISTING PANELS BEING USED FOR THIS PROJECT.
9. ALL CONDUCTORS SHALL BE COPPER, TYPE THHN/THWN INSULATED. ALL CONDUCTORS SHALL HAVE 600 VOLT RATED INSULATION UNLESS OTHERWISE NOTED.
10. REFER TO ARCHITECT'S REFLECTED CEILING PLAN FOR EXACT LOCATION OF ALL CEILING MOUNTED LIGHTING FIXTURES AND OTHER CEILING INSTALLED ITEMS.
11. THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOX IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH 6'–0".
12. EXACT LOCATION AND MOUNTING HEIGHTS OF ALL DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO THE INSTALLATION.
13. WALL MOUNTED EQUIPMENT (SWITCHES, RECEPTACLES, ETC.,) SHALL BE SURFACE MOUNTED IN UNFINISHED AREAS AND ON EXISTING CONCRETE BLOCK WALLS AND FLUSH MOUNTED IN NEW WALLS/PARTITIONS.
14. CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. SUPPORTS FOR HORIZONTAL RUNS OF CONDUIT SHALL NOT EXCEED SEVEN FEET ON CENTERS.
15. PROVIDE PULL BOXES, JUNCTION BOXES, CONDUIT ELBOWS AND OFFSETS TO SUIT FIELD CONDITIONS AND THE NATIONAL ELECTRICAL CODE.
16. CONTRACTOR SHALL COORDINATE WITH THE FIRE DEPARTMENT AND F.A. VENDOR BEFORE PROCEEDING WITH WORK INVOLVING FIRE ALARM SYSTEM.
17. ALL EMPTY CONDUIT SHALL BE PROVIDED WITH A DRAGWIRE.
18. THE MINIMUM WIRE SIZE FOR 120 VOLT BRANCH CIRCUITS SHALL BE NO. 12 AWG, EXCEPT OVER 100' IN LENGTH SHALL BE NO. 10 AWG.
19. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES (EX. CONNECTORS, ADAPTERS, BUSHINGS, CLAMPS, ETC.) TO FACILITATE COMPLETE INSTALLATION.
20. THE ELECTRICAL CONTRACTOR SHALL CONFIRM THE CONFIGURATION TYPE FOR ALL SPECIAL RECEPTACLES FOR COPIERS, DATA PROCESSING EQUIPMENT. ETC. WITH OWNER AND ENGINEER PRIOR TO ORDERING.
21. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO COVER. PROVIDE ARCHITECT APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.
22. PRIOR TO ORDERING LIGHTING FIXTURES, COORDINATE WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. IF DISCREPANCIES EXIST BETWEEN ARCHITECTURAL AND ENGINEERING INFORMATION OBTAIN CLARIFICATION PRIOR TO PROCEEDING.
23. MULTIPLE SWITCHES SHOWN IN SAME LOCATION SHALL BE GANGED TOGETHER WITH A COMMON FACEPLATE.
24. ALL LIGHTING FIXTURES CONTROLLED BY DIMMER SWITCHES SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR.
25. WIRING FOR P.A. SYSTEMS SHALL BE IN ACCORDANCE WITH APPROVED MANUFACTURER'S REQUIREMENTS, WIRING INDICATED ON DRAWINGS IS FOR REFERENCE ONLY. WIRING FOR P.A. SYSTEM SHALL BE PLENUM RATED AND RUN EXPOSED ABOVE ACCESSIBLE CEILINGS. IT SHALL BE RUN IN EMT CONDUIT WHERE EXPOSED, EXCEPT FOR CORRIDORS, CLASSROOMS AND OFFICES IT SHALL BE RUN IN STEEL SURFACE RACEWAY (SIMILAR TO WIREMOLD V–500 AND/OR V–700).
26. PRIOR TO ANY CHASING, CHOPPING OR CORE DRILLING BEING PERFORMED, THE CONTRACTOR SHALL FIELD INVESTIGATE CONDITIONS AND COORDINATE ALL WORK TO ENSURE THAT IT WILL BE IN HARMONY AND NOT AFFECT ANY EXISTING BUILDING SYSTEMS. THIS WORK MUST BE APPROVED BY BUILDING OWNER PRIOR TO PROCEEDING.
27. OPENINGS AROUND ELECTRICAL PENETRATIONS THROUGH FIRE RESISTANCE RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS. ALL SLEEVES MUST HAVE BUSHINGS. SEALANT SHALL BE 3 HOUR FIRE BARRIER #CP–25 (NO LESS THAN 3" THICK BACKED UP WITH MINERAL WOOL).
28. ALL PANELBOARD COVERS SHALL BE INSTALLED IN PLACE AT THE COMPLETION OF EACH DAYS WORK.
29. PREPARE 'AS–BUILT' DRAWINGS THAT REFLECT ACTUAL CONSTRUCTION AND SHOW DEVIATIONS FROM DESIGN DRAWINGS.
30. LIGHT FIXTURES SHALL BE CONSTRUCTED TO SUIT PARTICULAR TYPE OF CEILING AND WALL CONSTRUCTION AND SHALL BE PROVIDED WITH APPROPRIATE TRIMS, MOUNTING FRAMES AND ADAPTERS AS REQUIRED.
31. ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.
32. CONTRACTOR IS OBLIGATED TO INSTALL THE LIGHTING SYSTEM AND CONTROLS IN OBSERVANCE OF ALL APPLICABLE LOCAL AND NATIONAL CODES IN ACCORDANCE WITH APPROVED SUBMITTALS, INCLUDING ALL NOTES AND REVISIONS.
33. LIGHTING CONTROL SYSTEM MANUFACTURER OR REPRESENTATIVE SHALL PROVIDE OR ORCHESTRATE PROJECT MANAGEMENT AND QUALIFIED STARTUP OR COMMISSIONING SERVICES TO MEET THE SPECIFICATION AND CONTROL INTENT.
34. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION, WIRING, PLACEMENT, AND ADJUSTMENT OF ALL SENSORS AS PER MANUFACTURER'S SPECIFICATIONS, ENGINEER'S DESIGN INTENT, AND APPROVED SUBMITTALS.

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

GENERAL REMOVAL NOTES

1. BEFORE COMMENCING WORK, EXAMINE ALL ADJOINING AREAS THAT MAY BE AFFECTED BY REMOVAL. REPORT TO THE GENERAL CONTRACTOR ANY CONDITION THAT PREVENTS PERFORMANCE OF THE WORK.
2. BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS WHERE CONNECTIONS MUST BE MADE, CHANGED OR ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS AT THE SITE. INSPECT EACH AND EVERY AREA AFFECTED BY THE ALTERATION OF THE SPACE BEFORE SUBMITTAL OF BID.
3. ALL ELECTRICAL EQUIPMENT IN THE AREA OF WORK IS EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   - A. LIGHTING FIXTURES AND SWITCHES.
   - B. CIRCUIT BREAKERS AND DISCONNECT SWITCHES.
   - C. RECEPTACLES, OUTLETS AND DEVICES.
4. ALL CONDUCTORS AND CONDUIT ASSOCIATED WITH REMOVED ELECTRICAL EQUIPMENT SHALL BE REMOVED COMPLETELY BACK TO ITS SOURCE OF POWER AND DISCONNECTED.
5. ALL POWER CONDUCTORS, CONTROL WIRING AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SUCH AS FANS, AIR CONDITIONING UNITS, PUMPS, ETC. DESIGNATED FOR REMOVAL ON THE HVAC AND PLUMBING REMOVAL DRAWINGS SHALL BE REMOVED CLEAR BACK TO THE SOURCE OF POWER AND DISCONNECTED. ALL MOTOR STARTERS, DISCONNECT SWITCHES, CONTROL DEVICES, ETC. SHALL BE REMOVED. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
6. CIRCUIT BREAKERS AND/OR SWITCHES IN PANELBOARD(S) OR DISTRIBUTION BOARD(S) MADE SPARE DUE TO REMOVAL SHALL BE DESIGNATED AS SUCH ON THE PANEL SCHEDULE.
7. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO TRACE AND RELOCATE ALL EXISTING FEEDERS AND BRANCH CIRCUIT WIRING WHICH PASSES THROUGH THE REMOVAL AREA THAT SERVE EXISTING OCCUPIED SPACES TO REMAIN. COORDINATE WITH BUILDING MANAGER PRIOR TO ANY SHUTDOWNS OR DISRUPTIONS THAT MAY BE REQUIRED TO ACCOMPLISH THIS WORK.
8. DISPOSE OF ALL REMOVED EQUIPMENT, WHICH IS NOT INTENDED TO BE REUSED. PRIOR TO DISPOSAL, CONTACT BUILDING MANAGER TO DETERMINE IF ANY REMOVED EQUIPMENT IS DESIRED FOR STOCK.
9. EXISTING CIRCUIT BREAKERS IN PANEL(S) ARE TO BE RE–USED. ELECTRICAL CONTRACTOR TO DISCONNECT PANEL AND CIRCUIT BREAKERS WITH GREAT CARE TO ENSURE AGAINST DAMAGE. THIS CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED. ALL NEW CIRCUIT BREAKERS INSTALLED INTO EXISTING PANELBOARDS SHALL BE UL LISTED FOR USE IN THE PANEL.
10. ALL FIRE ALARM DEVICES IN THE AREA OF WORK ARE EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED.
11. EXISTING EQUIPMENT DESIGNATED FOR REUSE SHALL BE CLEANED, REFURBISHED AND RESTORED TO OPTIMUM PERFORMANCE. THIS SHALL INCLUDE BUT NOT LIMITED TO CLEANING OF LIGHT FIXTURES, REPLACEMENT OF INOPERABLE BALLASTS AND LAMPS, RESISTANCE TESTING OF BRANCH CIRCUITRY AND FEEDERS, ETC.
12. EXTEND EXISTING CIRCUITRY TO THOSE DEVICES THAT ARE TO BE RELOCATED. MATCH EXISTING TYPE AND SIZE. RELOCATION OF EXISTING EQUIPMENT SHALL BE PERFORMED ONLY UPON OWNERS ACCEPTANCE OF EXISTING EQUIPMENT.
13. EXTEND EXISTING CIRCUITS SERVING EQUIPMENT TO REMAIN FROM PANELS THAT ARE TO BE REMOVED TO NEW PANELS OR EXISTING PANELS THAT ARE TO REMAIN.

DISPOSAL OF MERCURY CONTAINING LAMPS

1. ALL FLUORESCENT AND HID LAMPS WITHIN REMOVED LIGHT FIXTURES ARE CONSIDERED MERCURY CONTAINING AND SHALL BE TREATED AS HAZARDOUS MATERIAL.
2. FLUORESCENT AND HID LAMPS SHALL BE REMOVED FROM DEMOLISHED LIGHT FIXTURES AND DISPOSED OF AS PER NEW YORK STATE DEC REGULATIONS AND METHODS
3. LAMPS MUST BE BAGGED IN NON–LEACHING PLASTIC BAGS AND SEALED TO PREVENT LEAKING.
4. EACH LAMP OR BAGGED CONTAINER IN WHICH THESE LAMPS ARE CONTAINED MUST BE LABELED OR MARKED CLEARLY WITH ONE OF THE FOLLOWING PHRASES; UNIVERSAL WASTE LAMPS, OR WASTE LAMPS, OR USED LAMPS
5. THESE MARKED BAGS MUST BE DELIVERED TO THE PROPER NEW YORK STATE D.E.C. AUTHORIZED LANDFILL OR RECYCLE CENTERS.

ABBREVIATIONS

ABBV.	DESCRIPTION
A	AMP/AMPERE
AC	AIR CONDITIONING UNIT
A.F.F.	ABOVE FINISHED FLOOR
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
C.B.	CIRCUIT BREAKER
(E)	EXISTING TO REMAIN
E.C.	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY
(ER)	EXISTING RELOCATED
FA	FIRE ALARM
F.A.C.P.	FIRE ALARM CONTROL PANEL
G,GRD	GROUND
GFI	GROUND FAULT INTERRUPTIBLE
HVAC	HEATING, VENTILATING AND AIR–CONDITIONING UNIT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NTS	NOT TO SCALE
P.A.	PUBLIC ADDRESS
PNL	PANEL
(R)	REMOVE EXISTING
(RN)	REPLACE EXISTING W/NEW
(RR)	REMOVED, SALVAGED AND RELOCATED
UH	UNIT HEATER
WP	WEATHERPROOF

LEGEND

Symbol	Description
A a	2'x2' CEILING MOUNTED FIXTURE. CAPITAL LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE.
A EM	2'x2' CEILING MOUNTED FIXTURE FOR EMERGENCY OPERATION WITH INTEGRAL BATTERY BACK–UP, TEST BUTTON AND L.E.D.
B a	1'x4' CEILING MOUNTED FIXTURE. CAPITAL LETTER INDICATES TYPE, LOWER CASE LETTER INDICATES SWITCH CONTROL. FIXTURE SCHEDULE DENOTES TYPE.
B EM	1'x4' CEILING MOUNTED FIXTURE FOR EMERGENCY OPERATION WITH INTEGRAL BATTERY BACK–UP, TEST BUTTON AND L.E.D.
3	HOMERUN TO DESIGNATED PANEL, ARROWHEAD INDICATES SINGLE POLE CIRCUIT. HOMERUN SHALL CONSIST OF 2#12–3/4"C U.O.N.
2,(4,6)	HOMERUN TO DESIGNATED PANEL, NUMBERS IN PARENTHESIS INDICATE MULTIPLE CIRCUIT, I.E. 3–HOTS AND 1–GROUND U.O.N.
– – –	EXISTING TO REMAIN
——	NEW
S	FLUSH WALL MOUNTED DECORA STYLE
S_M	FLUSH WALL MOUNTED LOW VOLTAGE MOMENTARY CONTACT SWITCH, SIMILAR TO WATTSTOPPER LVSW–101. WORK WITH CEILING SENSORS (DT–300) FOR MANUAL ON, AUTO OFF OPERATION. 'a' INDICATES CONTROL ZONE; '3' INDICATES 3–WAY SWITCH; '4' INDICATES 4–WAY SWITCH.
OS	CEILING MOUNTED LOW VOLTAGE, DUAL TECHNOLOGY SENSOR, SIMILAR TO WATTSTOPPER MODEL# DT–300, MANUAL ON, AUTO OFF, WORK WITH LOCAL LOW VOLTAGE MOMENTARY CONTACT WALL SWITCH (LVSW–101). INCLUDE REQUIRED POWER PACKS. PROGRAM TO MAXIMUM SENSITIVITY AND TIME DELAY TO 20 MIN.
	125V–2P–3W–20A GROUNDED TYPE, SPECIFICATION GRADE WALL MOUNTED TAMPER RESISTANCE DUPLEX RECEPTACLE SIMILAR TO LEGRAND #CR6307. PROVIDE DUST/CORROSION TYPE
	125V–2P–3W–20A GROUNDED TYPE, SPECIFICATION GRADE WALL MOUNTED DOUBLE DUPLEX RECEPTACLE SIMILAR TO HUBBELL #5362WTR.
	20A FLUSH WALL MOUNTED GROUND FAULT INTERRUPTING TYPE DUPLEX RECEPTACLE HUBBELL #GF5362.
	SURFACE MOUNTED EXISTING ELECTRICAL PANELBOARD.
240/3 60 40 WP	HEAVY DUTY TYPE DISCONNECT SWITCH WITH FINAL FLEXIBLE EQUIPMENT CONNECTION. 240 INDICATES VOLTAGE, 3 INDICATES NO. OF POLES, 60 INDICATES AMPERE RATING, NF INDICATES NON–FUSED(OR FUSE SIZE) U.O.N. REFER TO SPECIFICATION AND DRAWINGS FOR ENCLOSURE. 'WP' WHERE USED INDICATES WEATHERPROOF ENCLOSURE (NEMA 3R).
S_T	THERMAL SWITCH, CUTLER–HAMMER MS SERIES MANUAL STARTERS SINGLE–PHASE 20AMP, 120V U.O.N. WHERE INDICATED WITH 'WP' PROVIDE WATERTIGHT ENCLOSURE TYPE 3.
S_{2T}	208 VOLT, SINGLE PHASE 2 POLE, THERMAL OVERLOAD PROTECTED TOGGLE TYPE SWITCH. SIMILAR TO EATON #AH4361 + #AH27940G NEMA 1 ENCLOSURE.
5	MOTOR (F.B.O. WIRED BY ELEC.) – NUMBER INDICATES HORSEPOWER. REFER TO PANEL SCHEDULES FOR WIRING AND OVER CURRENT PROTECTION.
VS	WALL RECESS MOUNTED LOW VOLTAGE DUAL TECHNOLOGY VACANCY SENSOR, SIMILAR TO WATTSTOPPER MODEL# DSW–301. MANUAL ON, AUTO OFF. PROGRAM TO MAXIMUM SENSITIVITY AND TIME DELAY TO 15 MIN.
RC3	NETWORK DIGITAL DIMMABLE ROOM CONTROLLER FOR LIGHTING CONTROL. SIMILAR TO WATTSTOPPER MODEL LMRC–213. HOT WIRE TO LOAD, CAT 5 WIRE CONNECTIONS TO CONTROL DEVICES. RC'#' DENOTES LMRC–21'#' WITH '#' OF ZONES.
OS	NETWORK DIGITAL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, SIMILAR TO WATTSTOPPER MODEL LMDC–100. WORKS WITH DIGITAL ROOM CONTROLLER. PROGRAM TO MAXIMUM SENSITIVITY AND TIME DELAY TO 20 MIN.
H OS	CEILING MOUNTED LOW VOLTAGE ULTRASONIC SENSOR, SIMILAR TO WATTSTOPPER MODEL# WT–2250, WITH LONG CORRIDOR COVERAGE PATTERN, INCLUDE POWER PACKS. MANUAL ON, AUTO OFF, WORK WITH LOCAL KEY SWITCHES.
PC	WEATHERPROOF, EXTERIOR GRADE WALL MOUNTED PHOTOCELL SENSOR. SIMILAR TO HUBBELL LIGHTOWL #LO–IRWVRP–LWO, DISABLE OCCUPANCY SENSING. INCLUDE #UVPP POWER PACK.
WD1	NETWORK DIGITAL FLUSH MOUNTED PRESET SINGLE ZONE DIMMABLE WALL STATION, SIMILAR TO WATTSTOPPER MODEL LMSW–104, WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING AND PROGRAMMING PER ZONES: ON, RAISE, LOWER, OFF. SUPERSCRIPT '3' DENOTES 3 WAY SWITCH.
WD2	NETWORK DIGITAL FLUSH MOUNTED PRESET TWO ZONE DIMMABLE WALL STATION, SIMILAR TO WATTSTOPPER MODEL LMSW–104, WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING AND PROGRAMMING PER ZONES: A, B, RAISE, LOWER. SUPERSCRIPT '3' DENOTES 3 WAY SWITCH.
WD3 3	NETWORK DIGITAL FLUSH MOUNTED PRESET THREE ZONE DIMMABLE WALL STATION, SIMILAR TO WATTSTOPPER MODEL LMSW–105, WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING AND PROGRAMMING PER ZONES: ON/RAISE, OFF/LOWER, A, B, C, PRES. SUPERSCRIPT '3' DENOTES 3 WAY SWITCH.
F	WALL MOUNTED FIRE ALARM MANUAL PULL STATION
F	WALL MOUNTED COMBINATION FIRE ALARM HORN/STROBE DEVICE.
ST	WALL MOUNTED FIRE ALARM STROBE LIGHT.
FACP	FIRE ALARM CONTROL PANEL.
S	WALL MOUNTED PA SPEAKERS MATCH EXISTING. VENDOR: DUTCHESS TEL AUDIO
VA	VOICE ACCURATOR MATCH EXISTING. VENDOR: DUTCHESS TEL AUDIO
S	CEILING SURFACE MOUNTED P.A. SPEAKERS. MATCH EXISTING. VENDOR: DUTCHESS TEL AUDIO
C	CEILING MOUNTED SECURITY CAMERA
MH	ELECTROMAGNETIC DOOR HOLDER, INCLUDE FIRE ALARM INTERFACE MODULE FOR FIRE ALARM TIE IN. PROVIDE DOOR EXTENSION BAR AND ALL ACCESSORIES FOR A COMPLETE INSTALLATION
	FLUSH WALL MOUNTED COMBINATION TELEPHONE/DATA OUTLET CONSISTING OF A COVER PLATE WITH 1" GROMMETED OPENING AND 1 1/4" EMPTY CONDUIT WITH DRAG LINE STUBBED UP 6" ABOVE CEILING.
	FLUSH WALL MOUNTED COMBINATION DATA OUTLET CONSISTING OF A COVER PLATE WITH 1" GROMMETED OPENING AND 1" EMPTY CONDUIT WITH DRAG LINE STUBBED UP 6" ABOVE CEILING.
CR	JUNCTION BOX FOR CARD READER. REFER TO SECURITY CONSULTANT T–SERIES DRAWINGS FOR CONDUIT AND WIRING INFORMATION.EC TO PROVIDE ALL REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION.
IN	JUNCTION BOX FOR INTERCOM. REFER TO SECURITY CONSULTANT T–SERIES DRAWINGS FOR CONDUIT AND WIRING INFORMATION.EC TO PROVIDE ALL REQUIRED ACCESSORIES FOR COMPLETE INSTALLATION.
1	TAG SYMBOL. NUMERAL DENOTES REFERENCE TO A WORK NOTE.

MECHANICAL EQUIPMENT IDENTIFICATION:

- * EQUIPMENT ABBREVIATION (FE, SF, HV, ETC. SEE ABBREVIATIONS ON THIS DWG.)
- * EQUIPMENT NUMBER

DETAIL/PART PLAN NUMBER IDENTIFICATION:

- * DETAIL/PART PLAN NUMBER
- * DRAWING NUMBER

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WLHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

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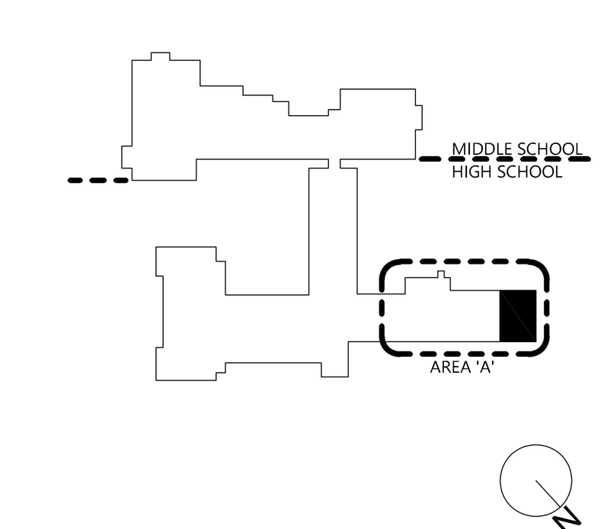
KEY PLAN



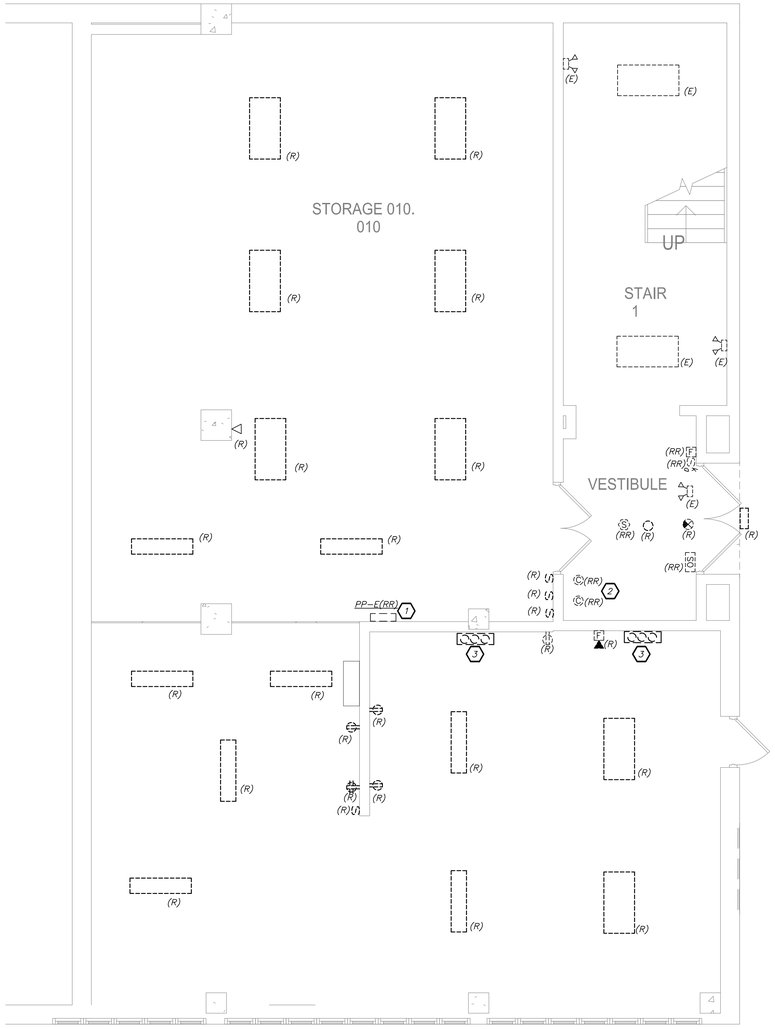
SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

LEGENDS, ABBREVIATIONS & NOTES

E001

REMOVAL NOTES:

1. EXISTING PANELBOARD SHALL BE RELOCATED TO THE NEW LOCATION AS SHOWN ON DRAWING E301. EXTEND ANY EXISTING TO REMAIN BRANCH CIRCUITRY TO THE NEW LOCATION. PROVIDE SPLICE BOX AS NEEDED. REFER TO NEW CIRCUIT BREAKER ARCTANGENTS ON DRAWINGS E501. PROVIDE NEW BREAKERS AS REQUIRED FOR NEW SCOPE OF WORK SHOWN ON DRAWINGS E201 AND E301.
2. EXISTING CAMERAS SHALL BE REMOVED BUBBLED WRAP FOR PROTECTION AND REINSTALLED BY ELECTRICAL CONTRACTOR.
3. EC SHALL RE-ROUTE EXISTING CONDUITS TO NEW ABOVE NEW CEILING TO ACCOMMODATE NEW CASEWORK. PROVIDE ALL ACCESSORIES REQUIRED FOR COMPLETE INSTALLATIONS.



HIGH SCHOOL PPS REMOVAL PLAN (REMOVAL)

1 / E101

0 4' 8'

1/4 inch=1 foot

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WLHS PPS PROJECT

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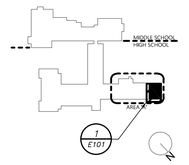

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MEMASI PROJECT NO.	107-2201

REMOVAL PLANS-HS PPS

E101

GENERAL NOTES:

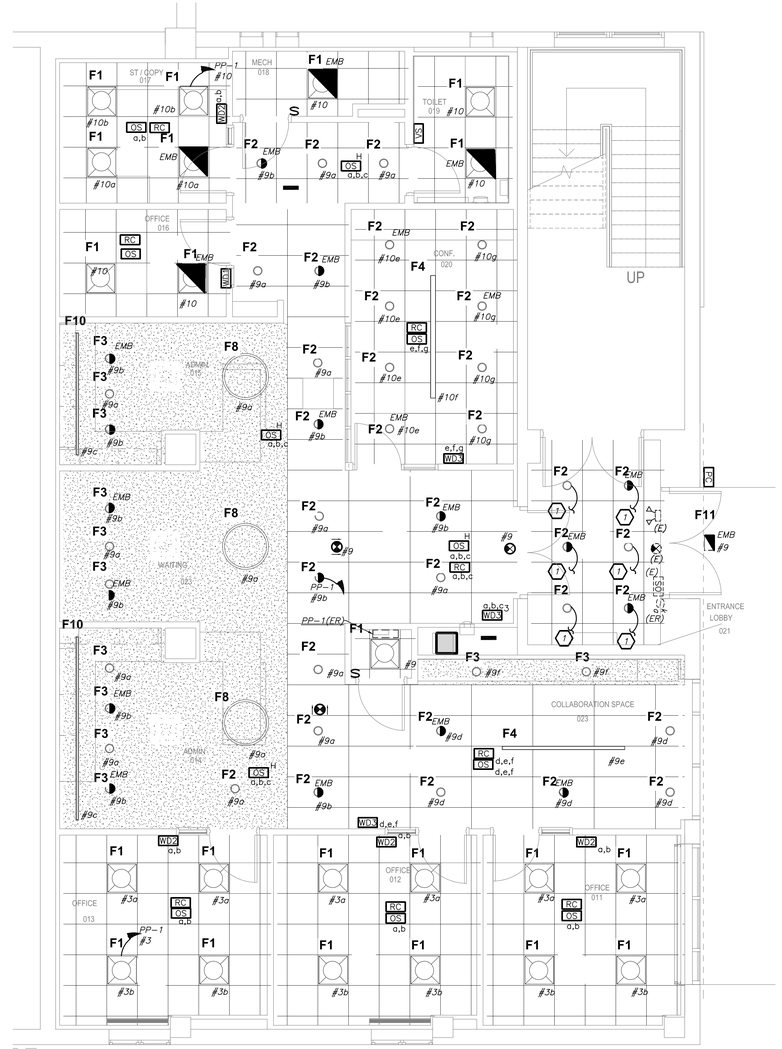
1. REFER TO DRAWING E501 FOR LIGHTING FIXTURE SCHEDULE; REFER TO DRAWING E001 FOR LIGHTING CONTROL ON LEGEND FOR DETAIL.
2. REFER TO DRAWING E600 SERIES FOR PANELBOARD SCHEDULES.
3. REFER TO DRAWING E701 FOR LIGHTING CONTROL WIRING DIAGRAMS AND DETAILS.
4. FOR ALL AREAS CONTROLLED BY ROOM CONTROLLER "RC", ELECTRICAL CONTRACTOR IS TO CIRCUIT ROOM CONTROLLER, THEN EXTEND LINE VOLTAGE CIRCUITRY TO EACH OF THE LIGHT FIXTURES DEPENDING ON CONTROL ZONES. REFER TO ROOM CONTROLLER WIRING DIAGRAM DETAILS ON DRAWING E701.
5. ALL EXIT LIGHTS SHALL BE CIRCUITED TO NORMAL LIGHTING CIRCUIT IN THE AREA, AHEAD OF ANY SWITCHING.

LIGHTING CONTROL AND SEQUENCE OF OPERATION:

1. ALL OFFICES IN PPS CONTROLLED VIA TWO ZONES MANUAL ON WALL SWITCH AND OCCUPANCY SENSORS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. IN-BUILT EMERGENCY BACK UP ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF LOST OF POWER.
2. EXTERIOR BUILDING MOUNT LIGHTS ARE CONTROLLED VIA REMOTE PHOTOCELL. IN BUILT BATTERY BACK UP SHALL OVERRIDE ALL CONTROLS AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF LOST OF POWER.

WORK NOTES:

(1) WIRE CORRIDOR LIGHTING TO CIRCUIT MADE SPARE BY DEMO WORK. FIXTURES SHALL BE CONTROLLED VIA LOCAL WALL SWITCH.



HIGH SCHOOL PPS LIGHTING PLAN
(NEW WORK)

1 / E201

0 4' 8'
1/4 inch=1 foot

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DBE: TAB: Layout1 – Y:\MT PLEASANT CSD\Mt. Pleasant CSD – MS Maker Space Renovation (2235.00)\Drawings\Electrical\MT PLEASANT PPS ONLY\223500E201.dwg – DATE: Jun 20, 2024 – 5:44pm

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WLHS PPS PROJECT

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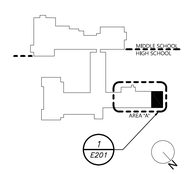


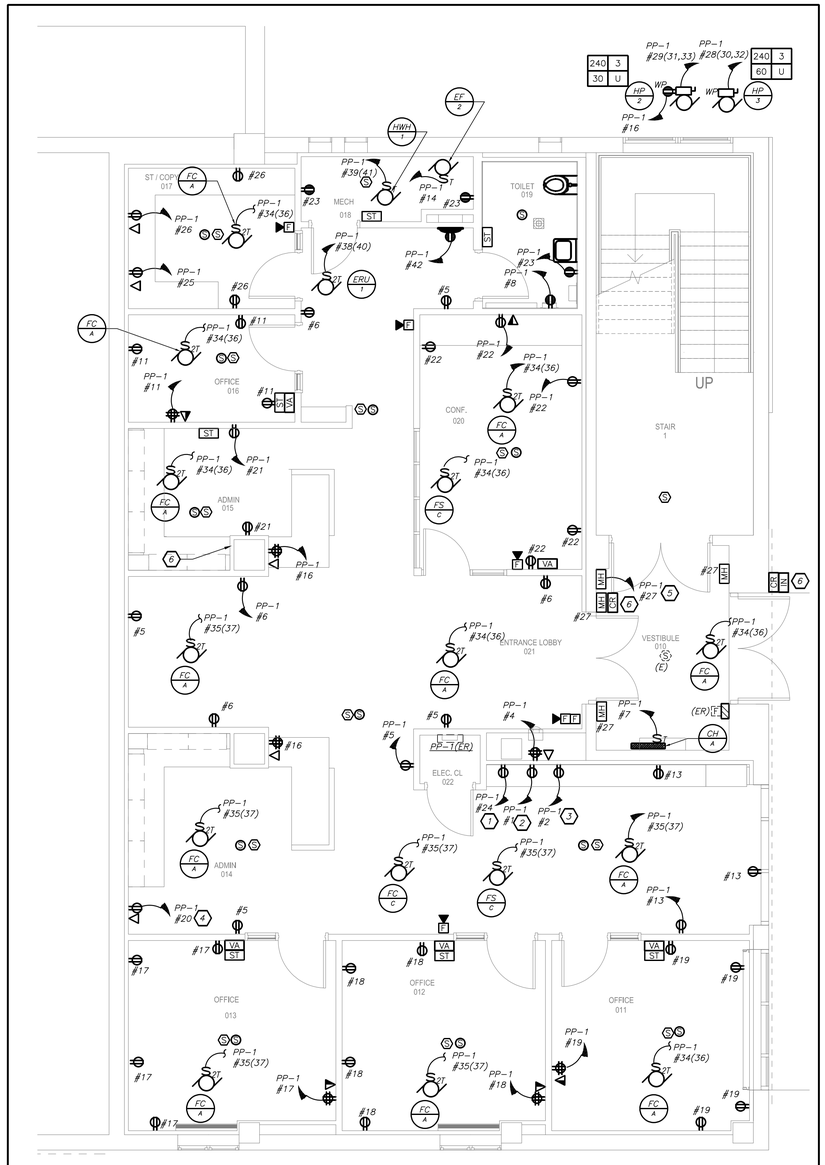
SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

LIGHTING PLAN HS- PPS PART

E201

WORK NOTES:

1. DEDICATED CIRCUIT FOR REFRIGERATOR. EC TO COORDINATE EXACT LOCATION BEFORE THE START OF WORK.
2. DEDICATED CIRCUIT FOR MICROWAVE. EC TO COORDINATE EXACT LOCATION BEFORE THE START OF WORK.
3. DEDICATED CIRCUIT FOR COFFEE MAKER. EC TO COORDINATE EXACT LOCATION BEFORE THE START OF WORK.
4. DEDICATED CIRCUIT FOR COPIER. EC TO COORDINATE EXACT LOCATION BEFORE THE START OF WORK.
5. PROVIDE 2#12+1#12G IN 3/4" C FOR WALL MOUNTED MAGNETIC DOOR HOLDERS. TO CIRCUIT PP-1 #27 CIRCUIT. PROVIDE DOOR HOLDER EXTENSION BAR AS REQ'D AND NECESSARY.
6. EC SHALL REFER TO SECURITY CONSULTANT T-SERIES DRAWINGS FOR CONDUIT AND WIRING INFORMATION FOR SECURITY SCOPE OF WORK. EC SHALL INCLUDE ALL SCOPE OF ASSOCIATED WITH SECURITY INCLUDING BUT NOT LIMITED TO CARD READERS, INTERCOM, ACCESS CONTROL,ELECTRIC STRIKE.



HIGH SCHOOL PPS POWER PLAN (NEW WORK)

1 / E301

0 4' 8'

1/4 inch=1 foot

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MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WLHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

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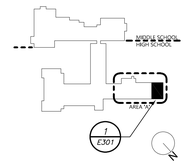

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MEMASI PROJECT NO. 107-2201

POWER PLAN HS- PPS PART

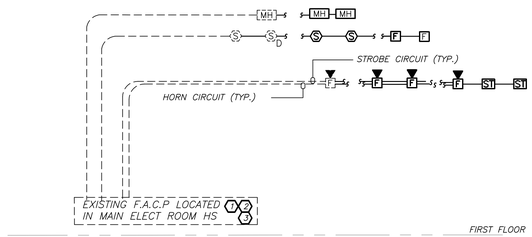
E301

FIRE ALARM RISER GENERAL NOTES:

1. FIRE ALARM WIRING DIAGRAMS SHOWN ARE FOR GENERAL ARRANGEMENT ONLY. ELECTRICAL CONTRACTOR SHALL VERIFY AND OBTAIN POINT TO POINT WIRING DIAGRAM PRIOR TO INSTALLATION FROM MANUFACTURER.
2. PERMITS AND APPROVALS NECESSARY FOR INSTALLATION OF THE WORK SHALL BE OBTAINED PRIOR TO THE COMMENCEMENT OF THE WORK. ALL PERMIT COSTS AND INSPECTION FEES SHALL BE INCLUDED AS PART OF THIS CONTRACT.
3. IN AREAS WHERE DUST AND DIRT WILL BE AIRBORNE DURING DEMOLITION AND CONSTRUCTION THE CONTRACTOR SHALL PROVIDE PLASTIC WRAP OVER SMOKE DETECTORS AND THEN REMOVE ONCE SPACE IS CLEAN.
4. UNLESS DIRECTED OTHERWISE BY FIRE ALARM SYSTEM MANUFACTURER FIRE ALARM DEVICE WIRING SHALL BE AS FOLLOWS (FOR BIDDING PURPOSES ONLY):
   HORN WIRING – #16 AWG TWISTED
   SPEAKER WIRING – #16 AWG TWISTED
   STROBE WIRING – #14 AWG TWISTED
   SIGNAL WIRING – #14 AWG TWISTED/SHIELDED

   THE WIRING SHALL HAVE THE FOLLOWING CHARACTERISTICS:
   A. A MINIMUM TEMPERATURE RATING OF 150 C
   B. A MINIMUM AVERAGE INSULATION THICKNESS OF 15 MILS
   C. A MINIMUM AVERAGE JACKET THICKNESS OF 25 MILS
   D. THE COLOR OF THE CABLE SHALL BE RED
   E. THE CABLE SHALL BE A TYPE FPLP (PLENUM TYPE) WHEN CONDUIT IS USED. SEE NOTE 5 FOR ADDITIONAL CLARIFICATION.
   F. THE CABLE SHALL BE VISIBLY MARKED EXTERNALLY THAT IT MEETS THE ABOVE REQUIREMENTS AND IS LISTED BY UL.

   CONFIRM WIRING TYPE AND QUANTITY WITH FIRE ALARM SYSTEM MANUFACTURER PRIOR TO PURCHASING.
5. PROVIDE MC FIRE ALARM CABLE WITH RED STRIPE AS MANUFACTURED BY AFC SERIES 1800 WHEN CABLE IS CONCEALED OR ABOVE HUNG CEILING. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN FINISHED AREAS, CABLE SHALL RUN IN WIREMOLD V–700. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN UNFINISHED AREAS, PROVIDE PLENUM RATED CABLE IN MIN. 3/4" CONDUIT.
6. STROBES SHALL HAVE A MINIMUM LIGHT OUTPUT OF 75 CANDELA AND A FLASH RATE OF 1–3 HZ.
7. PER NFPA72–18.4.3.1, TO MEET PUBLIC MODE AUDIBLE REQUIREMENTS, ALL SPEAKERS SHALL HAVE A SOUND LEVEL AT LEAST 15 dB ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
8. WALL MOUNTED SPEAKER STROBE UNITS SHALL NOT HAVE ANY OTHER DEVICES OR APPURTENANCES WITHIN 5 FEET OF THE DEVICE. THE ENTIRE LENS OF THE UNIT SHALL NOT BE LESS THAN 80", AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR, WHILE MAINTAINING 6" BELOW THE CEILING . DEVICES SHALL BE FLUSH MOUNTED IN ALL FINISHED AREAS. PROVIDE DOUBLE DEEP DEVICE BOX IN WALL.
9. SHUTDOWN OF HVAC SYSTEM EQUIPMENT (NOT LIMITED TO, ROOF TOP, EXHAUST FANS, ETC.) OF 1000 CFM OR GREATER, SHALL BE PERFORMED VIA A RELAY INTERFACE SYSTEM. SEND SIGNAL TO BUILDING AUTOMATED TEMPERATURE CONTROL (ATC) SYSTEM INDICATING SHUTDOWN HAS OCCURRED. EQUIPMENT RESTART SHALL BE BY BUILDING 'ATC' SYSTEM UPON FIRE ALARM RESET TO NORMAL MODE. RESTART OF EQUIPMENT SHALL BE SEQUENTIAL.
10. AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
11. ALL PULL STATIONS SHALL BE PROVIDED WITH CLEAR PROTECTIVE LEXAN COVER. COVER SHALL BE AS MANUFACTURED BY SAFETY TECHNOLOGY INTERNATIONAL INC. CAT. #STI 1100 STOPPER II.
12. COORDINATE F.A WORK WITH F.A VENDOR.
13. VERIFY EXACT QUANTITIES OF FIRE ALARM DEVICES WITH PLANS.
14. ALL DEVICES SHALL BE SUPERVISED AS PER N.F.P.A. 72. PROVIDE END OF LINE RESISTORS AS REQUIRED PER INDIVIDUAL MANUFACTURER. PROVIDE LOAD RELAYS AS REQUIRED FOR PROPER OPERATION OF EQUIPMENT.
15. FIRE SMOKE DAMPERS SHALL BE TIED INTO FIRE ALARM SYSTEM TO SHUT DOWN UPON SMOKE DETECTION ACTIVATION. PROVIDE ALL WIRING, RELAYS, ETC. AS REQUIRED FOR COMPLETE INSTALLATION.
16. DETECTOR SHALL INITIATE A SUPERVISORY SIGNAL WHEN 25% LOWER EXPLOSIVE LIMIT (LEL) IS REACHED AS REQUIRED BY UL 1484.
17. THIS CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING AND MAPPING OF EACH DEVICE AS REQUIRED.



FIRE ALARM RISER WORK NOTES:

1. CONNECT NEW FIRE ALARM DEVICES TO NEAREST EXISTING FIRE ALARM DEVICE CIRCUIT. PROVIDE ALL REQUIRED RELAYS, MODULES, WIRING, ETC., AS NEEDED. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
2. PROVIDE ALL RELAYS, POWER SUPPLIES, WIRING, ETC. AS REQUIRED FOR COMPLETE INSTALLATION.
3. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL WORK WITH BASE BUILDING VENDOR OPEN SYSTEMS FOR PROGRAMMING AND MAPPING OF ALL DEVICES.

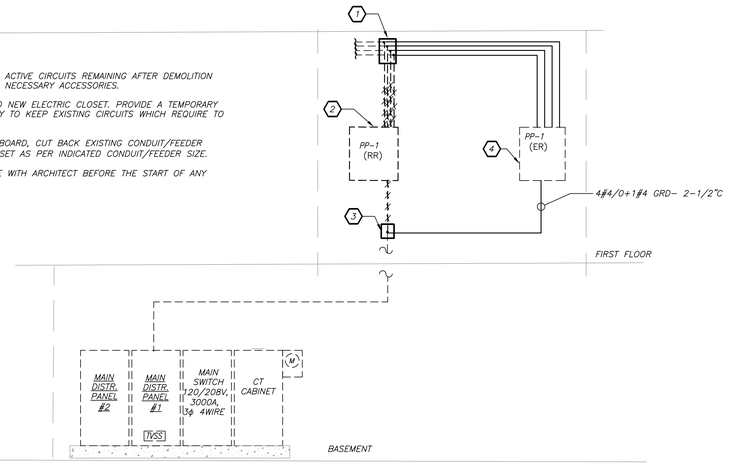
PART FIRE ALARM RISER — 1 / E501 — N.T.S.

LIGHTING FIXTURE SCHEDULE

TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
F1	CEILING RECESSED MOUNTED	19W LED UNV	RECESSED 2X2, WITH ACRYLIC DIFFUSER, CENTER DIVIDE, 3500K COLOR TEMP, 2570 LUMENS 90 CRI AND 0–10V INTEGRAL DIMMING DRIVER.	MANUFACTURER: COLUMBIA VERSIFY CAT# VSY22–9–35–LWHE–G–ED–U
F1 EMB	CEILING RECESSED MOUNTED	19W LED UNV	SAME AS FIXTURE "F1" WITH EMERGENCY BATTERY BACK PACK WITH SELF TEST	MANUFACTURER: COLUMBIA VERSIFY CAT# VSY22–9–35–LWHE–G–ED–U–ELL14ST
F2	CEILING RECESSED MOUNTED	18W LED UNV	2X2 FLRECESSED DOWNLIGHT, 3" DIA APERTURE, WITH CLEAR MATTE REFLECTOR, WHITE FLANGE, 3500K COLOR TEMP, 1500 LUMENS 90 CRI AND 0–10V INTEGRAL DIMMING DRIVER.	MANUFACTURER: CALCULITE CAT#3R–N–C3L–15–935–M–Z10–U –C3R–DL–CC
F2 EMB	CEILING RECESSED MOUNTED	18W LED UNV	SAME AS "F2" WITH EMERGENCY BATTERY BACK UP	MANUFACTURER: CALCULITE CAT#3R–N–EM6–C3L–15–935–M–Z10 U–C3R–DL–CC–IEM6
F3	CEILING DOWNLIGHT	14W LED UNV	RECESSED WALLWASHER, 3" DIA APERTURE, WITH CLEAR MATTE REFLECTOR, WHITE FLANGE, 3500K COLOR TEMP, 1000 LUMENS, 90 CRI AND 0–10V INTEGRAL DIMMING DRIVER.	MANUFACTURER: CALCULITE CAT#3R–N–C3L–10–935–N–Z10–U– C3R–LW–CC
F3 EMB	CEILING DOWNLIGHT	14W LED UNV	SAME AS "F3" WITH EMERGENCY BATTERY BACK UP	MANUFACTURER: CALCULITE CAT#3R–N–EM6–C3L–10–935–N–Z10 U–C3R–LW–CC
F4	PENDENT MOUNTED	12W/FT LED UNV	LINEAR PENDANT, 8' LONG X 3.675"W X .75"H, WITH 30% DIRECT/ 70% INDIRECT OUTPUT, TBD CABLE MOUNT. MOUNTING IN ACT CEILING TO BE CONFIRMED BASED ON FINAL LOCATION. 3500 COLOR TEMP, 1300LUMENS/FT 90CRI 0–10V REMOTE DRIVER LOCATION TBD BASED ON MOUNTING	MANUFACTURER: NULITE LYNC 3 CAT#LCT3–30–13–FT–H–35–FEC–UNV D–1–1–WH–TBD MOUNT–W–TBD CABLE 048–8
F8	WALL MOUNTED	72W LED UNV	SURFACE MOUNTED RING, 3' DIA. WITH 1.5"W X 3"H PROFILE, TBD FINISH, TALL INSIDE EDGE, 3500 COLOR TEMP, 477 LUMEN/FT, 95 CRI AND 0–10V REMOTE DIMMING DRIVER. ARCHITECT TO SELECT INTERIOR AND EXTERIOR FINISH. REMOTE DRIVER MOUNTED ABOVE ADJACENT ACT CEILING	MANUFACTURER: ALW MOONRING CAT# 1.5 MR1.5/TS–D3–CM–MED–90– 3500K–V05–LENS–TBDFINISH–UNV
F10	TAPE LED	18W LED UNV	LED TAPE IN SLIM EXTRUSION WITH FROSTED LENS, .54"H X .87"W X LENGTHS PER DRAWING, WITH WHITE FINISH, 3500K COLOR TEMP, 241 LUMENS/FT, 90 CRI AND 0–10V REMOTE DIMMING DRIPROVIDE LENGTHS AS INDICATED ON DRAWING. REMOTE DRIVER LOCATED IN ACCESSIBLE LOCATION IN CABINET. CONTRACTOR TO ADVISE FIELD/FACTORY ASSEMBLY OPTIONS.	MANUFACTURER: DIODE LED CAT# DI–12V–BLX2–35–XX–SL–WH– MC–010–TBDASSEMBLY–DI–DM– MX12V60W–0–10V
F11	EXTERIOR WALL MTD	16W LED UNV	LIGHTING ARC LED WALL–MOUNTED LUMINAIRES WITH RECESSED LENS, 7.625"H X 12"W LENGTHS PER DRAWING, WITH DARK BRONZE FINISH, 3000K COLOR TEMP, 2000 LUMENS AND EMERGENCY BATTERY BACKUP.	MANUFACTURER : LITHONIA CAT#ARC2–LED–P4–30K–MVOLT– EBWC–DDBTXD.
	SURFACE WALL/CEILING MOUNTED	1–5W 120V	L.E.D. TYPE EXIT LIGHT, STEEL HOUSING, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS. SELF POWERED MODEL WITH 90 MINUTE EMERGENCY BATTERY PACK.	MANUFACTURER: ENCORE LIGHITNG CAT.#LSE–8–R–PER DWG

POWER RISER DIAGRAM NOTES:

1. PROVIDE NEW SPLICE BOX AT CEILING TO EXTEND ALL EXISTING ACTIVE CIRCUITS REMAINING AFTER DEMOLITION AND RELOCATION OF PANELBOARD. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES.
2. EXISTING PANELBOARD SHALL BE REMOVED AND RELOCATED TO NEW ELECTRIC CLOSET. PROVIDE A TEMPORARY PANELBOARD DURING RENOVATION AS REQUIRED AND NECESSARY TO KEEP EXISTING CIRCUITS WHICH REQUIRE TO MAINTAIN ACTIVE DURING CONSTRUCTION.
3. PROVIDE A SPLICE BOX FOR CONDUIT/FEEDER ENTERING PANELBOARD, CUT BACK EXISTING CONDUIT/FEEDER AND EXTEND AS REQUIRED TO NEW LOCATION IN THE NEW CLOSET AS PER INDICATED CONDUIT/FEEDER SIZE.
4. EXISTING PANELBOARD RELOCATED TO NEW CLOSET. COORDINATE WITH ARCHITECT BEFORE THE START OF ANY WORK.



PART POWER RISER — 2 / E501 — N.T.S.

RELOCATED ELECTRICAL PANEL SCHEDULE

PNL: PP-1	MOUNTING: SURFACE	X	MAIN LUGS ONLY		MAIN C BKR-	GROUND BUS:	X
208Y/120, 3 PHASE, 4 WIRE	(NEMA 1) FLUSH		DOUBLE LUGS		200A/3P	ISOLATED GROUND BUS:	
22 ,000MIN A.I.C. SYM	IN MCC		FEED THRU LUG	X	MAIN BUS -	TVSS:	
NEUTRAL: 100%			SHUNT TRIP MAIN		225 A	NUMBER OF POLES:	42

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE A	KVA / PHASE B	KVA / PHASE C	KVA / PHASE A	KVA / PHASE B	KVA / PHASE C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	20	MICROWAVE	2#12+#12G	3/4	1.00			1.00			3/4	2#12+#12G	COFFEE MAKER	20	2
3	20	LIGHTING	2#12+#12G	3/4		1.00			0.32		3/4	2#12+#12G	RECP	20	4
5	20	RECP	2#12+#12G	3/4			0.72			0.72	3/4	2#12+#12G	RECP	20	6
7	20	CH-A	2#12+#12G	3/4	0.20			0.50			3/4	2#12+#12G	RECP GFCI	20	8
9	20	LIGHTING	2#12+#12G	3/4		0.80			1.00		3/4	2#12+#12G	LIGHTING	20	10
11	20	CONV RECP	2#12+#12G	3/4			0.90				-	-	SPARE	20	12
13	20	CONV RECP	2#12+#12G	3/4	0.36			0.20			3/4	2#12+#12G	EF-1	20	14
15	20	SPARe	-	-					0.20		3/4	2#12+#12G	GFI	20	16
17	20	DESK RECEP	2#10+#12G	3/4			1.08			0.50	3/4	2#12+#12G	DESK RECEP	20	18
19	20	DESK RECEP	2#12+#12G	3/4	0.50			1.08			3/4	2#12+#12G	CONV RECP	20	20
21	20	CONV RECP	2#12+#12G	3/4		1.08			0.50		3/4	2#12+#12G	CONF ROOM TV	20	22
23	20	RECP GFCI	2#12+#12G	3/4			0.20			0.50	3/4	2#12+#12G	REFRIGERATOR	20	24
25	20	COPIER	2#12+#12G	3/4	1.00			0.50			3/4	2#12+#12G	DED CKT	20	26
27	20	DED CKT	2#12+#12G	3/4		0.50			2.40					3	28
29	3						1.80			2.40	3/4	3#8+#10G	HP-3		30
31		HP-2	3#10+#10G	3/4	1.80			2.40						35	32
33	30					1.80			0.20		3/4	2#12+#12G	FC-A	20	34
35	2	FC-A	2#12+#12G	3/4			0.20			0.20				2	36
37	20				0.20			0.70			3/4	2#12+#12G	ERU	20	38
39	2	HWH	2#10+#10G	3/4		1.50			0.70					2	40
41	20						1.50				-	-	SPARE	20	42
		SUBTOTALS			5.06	6.68	6.40	6.38	5.32	4.32			SUBTOTALS		

TOTAL LOADS	11.4	KVA	PHASE A	LIGHTING: 1.80 KVA
	12.0	KVA	PHASE B	RECEPTACLE: 0.00 KVA
	10.7	KVA	PHASE C	KITCHEN: 0.00 KVA
TOTAL CONN. LOAD	34.2	KVA	95.0 A	MOTOR: 16.30 KVA
TOTAL DEMAND LOAD	34.2	KVA	95.0 A	POWER: 16.06 KVA
				TOTAL: 34.16 KVA

BEFORE FABRICATION THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB AND COORDINATE HIS WORK WITH THE WORK OF ALL OTHER CONTRACTORS

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WLHS PPS PROJECT

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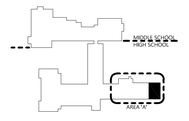
BRIDGEWATER, MA 02324

SEAL

ISSUED FOR BID	06/21/2024
ISSUE	DATE

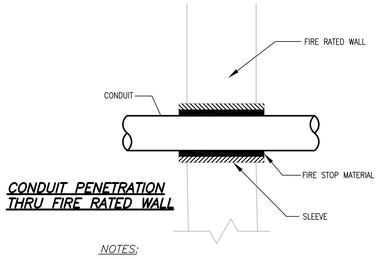
KEY PLAN



SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

RISERS & SCHEDULE

E501

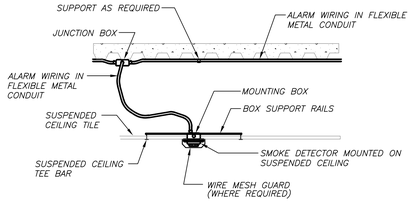


CONDUIT PENETRATION THRU FIRE RATED WALL

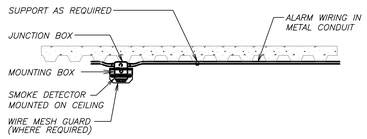
NOTES:

1. USE WHERE CONDUITS PASS THRU FIRE RATED WALL.
2. WHERE CONDUITS PASS THRU CONCRETE BEAM, BRICK WALL, OR WATER PROOF FLOORS, USE PIPE SLEEVES.

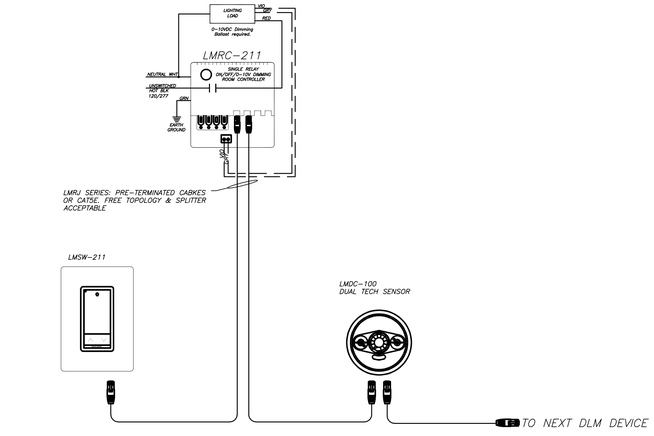
CONDUIT PENETRATION DETAILS 6 / E601 NTS



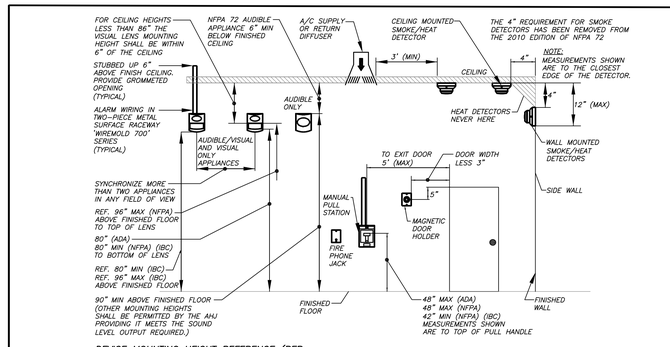
TYPICAL FOR ALL SMOKE DETECTORS MOUNTED ON SUSPENDED CEILINGS



SMOKE DETECTOR MOUNTING DETAIL NTS 4 / E601

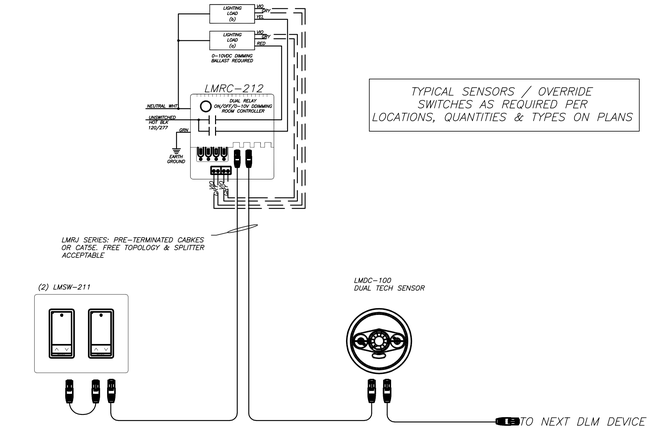


SINGLE ZONE LIGHTING CONTROL WITH DIMMING SENSORS 1 / E601 NTS



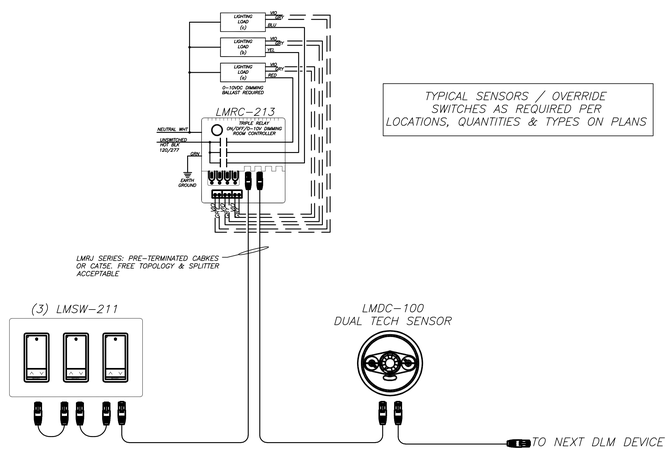
DEVICE MOUNTING HEIGHT REFERENCE (PER NFPA 72)

FIRE ALARM DEVICES – MOUNTING DETAIL 5 / E601 N.T.S.



TYPICAL SENSORS / OVERRIDE SWITCHES AS REQUIRED PER LOCATIONS, QUANTITIES & TYPES ON PLANS

TWO ZONE LIGHTING CONTROL WITH DIMMING SENSORS 2 / E601 NTS



TYPICAL SENSORS / OVERRIDE SWITCHES AS REQUIRED PER LOCATIONS, QUANTITIES & TYPES ON PLANS

THREE ZONE LIGHTING CONTROL WITH DIMMING SENSORS 3 / E601 NTS

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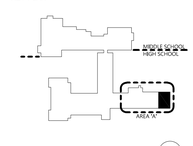

SED PROJECT NO.	66-08-01-06-0-005-025
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DETAILS

E601

TECHNOLOGY LEGEND AND ABBREVIATIONS

ABBREVIATIONS

℄	CENTERLINE
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
ATR	ALL THREADED ROD
AWG	AMERICAN WIRE GAUGE
BFBI	BUILDER FURNISHED - BUILDER INSTALLED
BMS	BUILDING MANAGEMENT SYSTEM
C	CONDUIT
CCTV	CLOSED CIRCUIT TELEVISION
CFD	CEMENT-FIBER DUCT
CL	CLOSET
CLG	CEILING
COAX	COAXIAL CABLE
CT	CABLE TRAY
CTR	CENTER
DIA	DIAMETER
DGP	DATA GATHERING PANEL
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEV	ELEVATOR
EMI	ELECTROMAGNETIC INTERFERENCE
EMT	ELECTRICAL METALLIC TUBING
EQPT	EQUIPMENT
FBO	FURNISHED BY OTHERS
FC	FINISHED CEILING
FCC	FIRE CONTROL CENTER
FR	FIRE RATED
FRP	FIBERGLASS REINFORCED PLASTIC
GFGI	GOVERNMENT FURNISHED - GOVERNMENT INSTALLED
GC	GENERAL CONTRACTOR
GND	GROUND
HVAC	HEATING VENTILATION & AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT - SEE NEC ARTICLE 342
JB	JUNCTION BOX
LAN	LOCAL AREA NETWORK
LEC	LOCAL EXCHANGE CARRIER
MDF	MAIN DISTRIBUTION FRAME
MM	MULTI-MODE (OPTICAL FIBER)
MTD	MOUNTED
MTG	MOUNTING
NEC	NATIONAL ELECTRICAL CODE - NFPA 70
NESC	NATIONAL ELECTRICAL SAFETY CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OSP	OUTSIDE PANT
PNL	PANEL
PR	PAIRS-NUMBER OF PAIRS IN COPPER CABLE
PVC	POLYVINYL CHLORIDE
RM	ROOM
RMC	RIGID METAL CONDUIT - SEE NEC ARTICLE 344
RU	RACK UNIT; UNIT OF PATCH PANEL HEIGHT EQUAL TO 1.75 INCH
SCC	SECURITY CONTROL CENTER
SDF	SECURITY DISTRIBUTION FRAME
SM	SINGLE-MODE (OPTICAL FIBER)
STP	SHIELDED TWISTED PAIR
TBD	TO BE DETERMINED
TC	TELECOMMUNICATIONS CONTRACTOR
TEL	TELECOMMUNICATION
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
WP	WEATHERPROOF

TELECOM. NOTES

1. THE LOCATIONS AND ELEVATIONS OF TECHNOLOGY DEVICES SHOWN ON THESE DRAWINGS ARE SCHEMATIC UNLESS ACTUAL DIMENSIONS ARE SHOWN ON THE DRAWINGS. REFER TO THE ARCHITECTURAL PLANS AND OBTAIN THE APPROVAL OF THE ARCHITECT FOR THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL DEVICES.
2. CONTRACTOR SHALL ENSURE THAT ALL MOUNTING HEIGHTS COMPLY WITH CURRENT ADA REQUIREMENTS.
3. ABOVE COUNTER DEVICES SHALL BE MOUNTED 8" ABOVE COUNTER OR A MAXIMUM OF 44" AFF (TO TOP OF DEVICE).
4. PROVIDE SUPPORTS AND ANCHORING FOR PIPING, CONDUIT, DUCTS, EQUIPMENT, AND OTHER NON-STRUCTURAL ELEMENTS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
5. PROVIDE SOUND PUTTY PADS IN ALL BACK BOXES.
6. FIRESTOPPING: ALL PENETRATIONS THROUGH RATED WALLS AND FLOORS AND CONDUIT/SLEEVE OPENINGS SHALL BE SEALED WITH MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES, HOT GASSES AND SMOKE WHEN SUBJECTED TO THE REQUIREMENTS OF THE TEST STANDARD SPECIFIC FOR APPLICABLE CODES.
7. ALL COMMUNICATIONS CONDUIT, CABLE TRAYS, LADDER RACKS AND EQUIPMENT RACKS SHALL BE BONDED TO BUILDING GROUND SYSTEM PER NEC 250 AND TIA-607-D.
8. LABEL ALL CLOSETS, RACKS, FRAMES, CABINETS, TERMINATION BLOCKS, CABLES, TERMINATIONS, RACEWAYS, ETC. IN ACCORDANCE WITH TIA-606-D.
9. ALL COMMUNICATIONS RACEWAYS AND PATHWAYS SHALL BE INSTALLED TO MINIMIZE UNNECESSARY CABLE LENGTHS AND MAINTAIN INDUSTRY STANDARD LENGTH LIMITATIONS FOR HORIZONTAL CABLE DISTRIBUTION (E.G CAT.6). BASIC LINK CABLE LENGTH SHALL NOT EXCEED 295 FT (90M) FOR UTP CABLE, 150 FT (45M) FOR SERIES-6 COAXIAL CABLE.
10. ALL COMMUNICATIONS CABLE SHALL BE PLENUM RATED (CMP), RISER RATED (CMR) AND UNDERGROUND RATED (WATERBLOCK) ACCORDING TO USE AND ENVIRONMENTAL CONDITIONS.
11. PROVIDE PROTECTIVE BUSHINGS ON ALL COMMUNICATIONS CONDUITS AND WHERE CABLING ROUTES THROUGH METAL STUDS.
12. ALL NON-ARMORED FIBER OPTIC CABLE SHALL BE INSTALLED IN APPROVED INNERDUCT.
13. ALWAYS INSTALL LOW-VOLTAGE CABLES IN CONDUITS, CABLE TRAYS, WIREWAYS OR OTHER APPROVED CABLE MANAGEMENT DEVICES OR SYSTEMS. NEVER INSTALL CABLES IN SUCH A MANNER THAT THEY ARE SUPPORTED BY CEILING SYSTEMS (CEILING TILE OR GRID, GYPSUM BOARD, LATH & PLASTER), HVAC DUCTS OR PIPES, LIGHTING FIXTURES, ELECTRICAL CONDUITS OR CABLES, PLUMBING/FIRE PROTECTION PIPES, OR ANY OTHER DEVICES NOT INTENDED FOR THE SUPPORT OF LOW-VOLTAGE CABLING.
14. EXPOSED LOW-VOLTAGE CABLES SHALL NOT BE PAINTED. ANY PAINTED CABLES SHALL BE REMOVED AND REPLACED WITH NEW CABLES.
15. PROVIDE WEATHERPROOF, IN-USE COVER FOR EXTERIOR DATA DEVICES.
16. ALL CABLE TRAY MOUNTING HEIGHTS INDICATED ON FLOOR PLANS ARE TO THE BOTTOM OF CABLE TRAY SUPPORTS.
17. SEISMIC BRACING FOR ALL CABLE TRAYS SHALL BE PROVIDED AS REQUIRED BY CODE, LOCAL GOVERNING JURISDICTION AND CABLE TRAY MANUFACTURER SPECIFICATIONS.
18. ALL CABLE TRAY ROUTING THROUGH ELECTRICAL ROOMS SHALL BE FULLY ENCLOSED. REFER TO CABLE TRAY DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
19. CABLE TRAY AND CABLE ROUTING ARE INTENDED TO SUPPORT ALL TYPES OF TELECOMMUNICATIONS CABLING AS DEFINED IN TIA-569-E.
20. RACEWAYS AND CABLE SHALL BE RUN CONCEALED IN FINISHED SPACES UNLESS OTHERWISE INDICATED.
21. REUSABLE VELCRO TIES SHALL BE USED TO BUNDLE OR MANAGE CABLES. PLASTIC ZIP TIES ARE NOT APPROVED FOR USE.
22. SIZE AND ORIENTATION OF ALL TELECOM PULL-BOXES SHALL MEET OR EXCEED THE BICSI TDMM REQUIREMENTS.
23. ALL LOW-VOLTAGE CONDUIT LARGER THAN 2" SHALL HAVE A MINIMUM BEND RADIUS OF 10:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS. ALL LOW-VOLTAGE CONDUIT 2" AND SMALLER SHALL HAVE A MINIMUM BEND RADIUS OF 6:1 OF THE INSIDE DIAMETER FOR ALL ELBOWS.
24. ALL CONDUITS AND MICRODUCTS SHALL BE INSTALLED WITH PULL-STRINGS.

SECURITY NOTES

1. LOCATION OF ALL SECURITY DEVICES AND OTHER SECURITY COMPONENTS ARE APPROXIMATE AND SUBJECT TO CHANGE. SEE ARCHITECTURAL DRAWINGS FOR EXACT DETAILS.
2. PROVIDE FIRE STOPPING FOR ALL SLEEVE, CONDUIT AND CABLE TRAY PENETRATIONS THROUGH RATED PARTITIONS OR FLOORS IN ACCORDANCE WITH THE CODE AND SPECIFICATIONS.
3. ALL WALL MOUNTED DEVICES TO BE WIRED VIA 1" CONDUIT (PROVIDED UNDER ELECTRICAL CONTRACT) WITHIN WALL TO THE NEAREST ACCESSIBLE CEILING UNLESS OTHERWISE SPECIFIED.
4. ANY ELECTRICAL AND MECHANICAL DEVICES SHOWN ON THESE DRAWINGS ARE FOR REFERENCE PURPOSES ONLY UNLESS OTHERWISE SPECIFIED. SEE MEP DRAWINGS FOR DETAILS AND LOCATION OF ALL SUCH EQUIPMENT.
5. GROUND ALL EQUIPMENT RACKS, FRAMES, CABLE TRAYS, CABLE LADDERS AND OTHER PERMANENT SUPPORTS WITH #6 AWG (MIN), STRANDED, GREEN, INSULATED, COPPER WIRE AND SCREW COMPRESSION LUGS.
6. LABEL ALL CLOSETS, RACKS, CABINETS, CABLES, CABLE SUPPORTS, ETC. IN ACCORDANCE WITH ANSI/TIA/EIA-606-A.
7. ALL SECURITY DEVICES ARE TO BE U.L. LISTED. CABLES FOR DEVICES ARE TO BE WIRED TO THE SAME CLOSET THAT SERVES THE REST OF THE FLOOR.

DOOR WIRING NOTES

1. NO CABLES ARE TO BE INSTALLED EXPOSED. ALL CABLES ARE TO BE CONCEALED IN CONDUIT. ALL CONDUIT ARE TO BE FINISHED AND TERMINATED IN JUNCTION BOXES AND/OR DEVICE BOXES, UON.
2. ALL JUNCTION BOXES ARE TO BE PLACED ON SECURE SIDE OF DOORS.
3. SECURITY CONTRACTOR TO PROVIDE ALL CABLING AND COORDINATION WITH ELECTRICAL CONTRACTOR FOR PROPER CONDUIT INSTALLATION.
4. DOOR WIRING DETAILS ARE DIAGRAMMATIC ONLY. EXACT LOCATION OF SECURITY DEVICES MAY DIFFER.
5. COORDINATE ALL CONNECTIONS AT ENTRY AND EGRESS SIDE OF DOORS WITH EC, GC AND HARDWARE CONTRACTOR.

SYMBOLS LEGEND

RACEWAY LEGEND

T ——— T ———	TELECOMMUNICATIONS CONDUIT
UT ——— UT ———	CONDUITS BELOW GRADE/SLAB OR EMBEDDED IN SLAB
J ——— J ———	CABLES ON J-HOOKS
○———	CONDUIT UP
●———	CONDUIT DOWN
⊢———	CONDUIT STUBBED OUT WITH BUSHING
◕	CONDUIT CROSS-SECTION
——— CT ———	TELECOMMUNICATIONS CABLE TRAY
▥▥▥▥▥▥▥▥▥▥	TELECOMMUNICATIONS LADDER RACK

MISCELLANEOUS SYMBOL LEGEND

#	SHEET KEYNOTE
#	REVISION NUMBER
1 / T2.1	CALLOUT — CALLOUT NUMBER / SHEET NUMBER
TMGB	TELECOM MAIN GROUNDING BUSBAR
TGB	TELECOM GROUNDING BUSBAR

LOW VOLTAGE WIRING DEVICE LEGEND

#	TELECOMMUNICATIONS WALL MOUNTED OUTLET '#' DENOTES QUANTITY OF CATEGORY 6 4-PAIR UTP CABLES
WAP	CEILING MOUNTED OUTLET FOR WIRELESS ACCESS POINT (2) CATEGORY 6 4-PAIR UTP CABLES; MOUNTED FLUSH IN CEILING OR TIGHT TO STRUCTURE. CONTRACTOR TO INSTALL OWNER FURNISHED WIRELESS ACCESS POINTS.
AV	AV WALL MOUNTED OUTLET (2) CATEGORY 6 4-PAIR UTP CABLES (1) 3.0 HDMI PROGRADE CABLE TO DISPLAY
MM	MULTIMEDIA IN-WALL STORAGE BOX MOUNTED BEHIND DISPLAY

NOTES:

1. FOR TELECOMMUNICATIONS OUTLETS, PROVIDE BOX WITH CONDUIT FROM BOX TO 3" ABOVE AN ACCESSIBLE CEILING OR INTO THE TELECOM ROOM. INCLUDE PULL STRING AND TERMINATED WITH AN INSULATED BUSHING. BOXES SHALL BE RECESSED.
   1"C., 4 11/16" x 2 1/8" BOX WITH 5/8" RAISED SINGLE GANG PLASTER RING. RACO #259 & 843 OR EQUAL.
2. ALL CONDUITS, BACK BOXES AND PLASTER RINGS WILL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. TELECOMMUNICATIONS CONTRACTOR SHALL COORDINATE AND VERIFY THE OUTLET LOCATIONS BY REFERRING TO THE ARCHITECTURAL DRAWINGS AND DETAILS.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL OUTLETS.

LEGEND NOTES

THIS SHEET IS A GENERAL LIST OF SYMBOLS AND ABBREVIATIONS AND SHALL BE USED AS A DICTIONARY TO DEFINE ITEMS INDICATED ON DRAWINGS. NOT ALL SYMBOLS OR ABBREVIATIONS ARE NECESSARILY USED ON THIS PROJECT.

SECURITY DEVICE LEGEND

DC	DOOR CONTACT (1) 18/4 SHIELDED
CR	CARD READER (1) 22/6 SHIELDED
EL	ELECTRIC LOCK (LOCK BY HARDWARE) (1) 16/2 SHIELDED
RE	REQUEST-TO-EXIT (1) 18/4 SHIELDED
DR	DOOR RELEASE BUTTON (1) 18/4 SHIELDED
IC MS	INTERCOM MASTER STATION (1) CATEGORY 6 4-PAIR UTP CABLE
IC SS	VIDEO INTERCOM SUBSTATION (1) CATEGORY 6 4-PAIR UTP CABLE

DRAWING LIST

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WLHS PPS PROJECT

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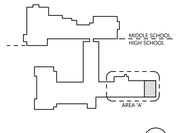
SEAL

ISSUED FOR BID	06/07/2024
ISSUE	DATE

KEY PLAN



SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

TECHNOLOGY LEGEND AND ABBREVIATIONS

T001

TELECOMMUNICATIONS SPECIFICATION

I. GENERAL

A. THE WORK COVERED CONSISTS OF:

FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION THE CATEGORY 6 DATA CABLING SYSTEM FOR THE MOUNT PLEASANT 2024 WHS PPS PROJECT.

1. TERMINATE ALL CATEGORY 6 CABLING ON PATCH PANELS UNLESS INDICATED OTHERWISE ON DRAWINGS.
2. PROVIDE ALL OTHER SYSTEMS HEREIN AFTER SPECIFIED OR INDICATED ON THE CONTRACT DRAWINGS LEAVING READY A COMPLETE STRUCTURED CABLING SYSTEM IN PERFECT OPERATING CONDITION.
3. PROVIDE FOR THE MOUNTING OF OWNER PROVIDED WIRELESS ACCESS POINTS.

B. SHOP DRAWINGS OF ALL SPECIFIED FIXTURES, EQUIPMENT AND APPARATUS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

C. CODES: ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THIS CONTRACT AND LABOR PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE NEW YORK STATE BUILDING, THE CITY OF THORNWOOD, NATIONAL FIRE PROTECTION ASSOCIATION, ANSI/EIA/TIA STANDARDS AND INSURANCE REGULATIONS AND REQUIREMENTS GOVERNING SUCH WORK.

D. PERMITS, CERTIFICATIONS, REVIEWS, APPROVALS: ANY AND ALL PERMITS, CERTIFICATIONS, REVIEWS OR APPROVALS REQUIRED FOR INSTALLATION OF ANY MATERIAL OR SYSTEM SHALL BE OBTAINED AS PART OF THE WORK OF THE SPECIFICATION INCLUDING ALL FEES OR EXPENSES INCURRED.

E. GUARANTEE: ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED SHALL BE GUARANTEED IN WRITING FOR ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE BUILDING BY THE OWNER.

F. RECORD DRAWINGS: THE CONTRACTOR SHALL MAINTAIN AT THE JOB, AT ALL TIMES, A COMPLETE AND SEPARATE SET OF BLACK LINE PRINTS OF THE DRAWINGS OF HIS TRADE ON WHICH HE SHALL MARK CLEARLY, NEATLY, ACCURATELY AND PROMPTLY AS THE WORK PROGRESSES. SEPIA REPRODUCIBLE "AS-BUILTS" SHALL BE FURNISHED BY THE TELECOMMUNICATIONS SUBCONTRACTOR AT THE JOB COMPLETION.

G. INSPECTION: ALL WORK SHALL BE SUBJECT TO THE INSPECTION OF THE OWNER, THE ENGINEER AND SUCH OTHER INSPECTORS HAVING JURISDICTION. A PROPERLY EXECUTED CERTIFICATE OF INSPECTION SHALL BE PROVIDED.

H. TESTS: THE CONTRACTOR SHALL PERFORM ALL TESTS AT THE COMPLETION OF THE WORK AND THE RESULTS FURNISHED TO THE OWNER AND ENGINEER IN WRITING.

I. UPON COMPLETION OF ALL WORK, THE CONTRACTOR SHALL FURNISH, IN DUPLICATE, CERTIFICATES OF INSPECTIONS FROM ALL INSPECTORS AND AUTHORITIES HAVING JURISDICTION.

J. ALL PHASES OF THE TELECOMMUNICATIONS SYSTEM INSTALLATION SHALL ADHERE TO APPLICABLE LOCAL AREA NETWORK (LAN) SPECIFICATIONS OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS (IEEE), TELECOMMUNICATIONS INDUSTRY ASSOCIATION/ ELECTRONICS INDUSTRIES ALLIANCE (TIA/EIA), AND BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL (BICSI).

II. MATERIALS

A. UTP CABLE

1. CABLE SHALL MEET OR EXCEED 1 GB/S AT 550 MHZ, 24 AWG, FOUR UNSHIELDED TWISTED PAIRS (UTP), NRTL CERTIFIED TO TIA/EIA 568A/B FOR CATEGORY 6 (UL CATEGORY 6).
2. CABLE SHALL BE PLENUM RATED - CMP RATED JACKET
3. ALL DATA CABLING SHALL BE BLUE.
4. ALL CABLING SHALL BE BERK-TEK LANMARK 1000 (CATEGORY 6) OR APPROVED EQUAL.

B. PATCH PANELS

1. PATCH PANELS SHALL BE ORTRONICS CLARITY 24-PORT CATEGORY 6 HIGH DENSITY EIGHT-PORT MODULES OR APPROVED EQUAL.

C. MODULES

1. ALL MODULAR JACKS FOR DATA AND VOICE SHALL BE ORTRONICS CATEGORY 6 OR APPROVED EQUAL.
2. EACH MODULAR JACK SHALL BE 8-PIN AND BE TIA/EIA 568B WIRED AND USE COLOR AS INDICATED ON THE DRAWINGS .
3. PROVIDE SURFACE BOX AT THE WIRELESS ACCESS POINT LOCATIONS.

D. FIBER OPTIC CABLE

1. 50/125 MICROMETER MULTIMODE ARMORED INDOOR/OUTDOOR FIBER (OM4) OPTIC CABLE:
   a. PROVIDE 50 MICRON ENHANCED PERFORMANCE MULTIMODE OPTICAL FIBER THAT CAN SUPPORT SINGLE-CHANNEL SERIAL TRANSMISSION TO 10 GIGABITS PER SECOND (10 GBPS) FOR A DISTANCE OF UP TO 300 METERS WITH UP TO 4 CONNECTIONS COMPRISING THE CHANNEL.
   b. THE FIBER SHALL SUPPORT 10 GB AT SHORT WAVELENGTH (850 NM) APPLICATIONS USING VERTICAL CAVITY SURFACE EMITTING LASERS (VCEL) AND LOW BIT RATE LED APPLICATIONS FOR LEGACY SYSTEMS.
   c. THE FIBER SHALL BE OPTIMIZED TO CONTROL DIFFERENTIAL MODE DELAY (DMD) SO THAT PULSE-SPLITTING CONDITIONS ARE ELIMINATED.
   d. CABLE SHALL BE CERTIFIED TO THE FOLLOWING:
      1) ANSI/TIA/EIA-492AAAB: DETAIL SPECIFICATION FOR 50 M CORE DIAMETER/125 M CLADDING DIAMETER CLASS IA MULTIMODE, GRADED-INDEX OPTICAL WAVEGUIDE FIBERS
      2) PROJECT NUMBER 3-0035B - (CREATE A STANDARD) - ANSI/TIA/EIA-492AAAC, DETAIL SPECIFICATION FOR 850-NM LASER OPTIMIZED, 50 UM CORE DIAMETER/125-UM CLADDING DIAMETER CLASS IA GRADED-INDEX MULTIMODE OPTICAL FIBERS. THIS STANDARD ENABLES END USERS AND MANUFACTURERS OF FIBER OPTIC CABLE TO SPECIFY A HIGH BANDWIDTH OPTICAL FIBER OPTIMIZED FOR ENHANCED PERFORMANCE AT 850 NM.
      3) ANSI/ICEA S-83-596: FIBER OPTIC PREMISES DISTRIBUTION CABLE
      4) ANSI/TIA/EIA-526-14-A: OPTICAL LOSS MEASUREMENTS OF INSTALLED MULTIMODE FIBER CABLE PLANT OFSTP-14A
      5) ANSI/TIA/EIA-568-B.1: COMMERCIAL BUILDING TELECOMMUNICATIONS CABLING STANDARD
      6) ANSI/TIA/EIA-568-B.3: OPTICAL FIBER CABLING COMPONENTS STANDARD
         a) NUMBER OF PAIRS (2 STRANDS PER PAIR) INDICATED ON DRAWINGS
         b) 50/125 MICRON ENHANCED
         c) 850 NM AND 1300 NM, GRADED INDEX, OPTICAL FIBER WAVEGUIDE
         d) TIGHT BUFFER
         e) MULTIMODE DISTRIBUTION CABLE:
            (1) RISER-RATED MULTI-MODE CABLE - OFNR JACKET, DISTRIBUTION CABLE.
            (2) PLENUM RATED, MULTI-MODE CABLE-OFNP JACKET, DISTRIBUTION CABLE. NOT REQUIRED WHERE CABLE IS IN CONDUIT.
         f) THE MAXIMUM ATTENUATION MEASURED AT 23 DEGREES C. SHALL BE 3.5 DB/KM @ 850 NM AND 1.0 DB/KM @ 1300 NM.
         g) THE MINIMUM INFORMATION TRANSMISSION CAPACITY FOR OVERFILLED LAUNCH SHALL BE 500 MHZKM @ 850 NM AND 500 MHZKM @ 1300 NM.
         h) GUARANTEED GIGABIT ETHERNET DISTANCE: 600 M @ 850 NM AND 600 M @ 1300 NM.

E. FIBER OPTIC PATCH PANEL ENCLOSURE

1. PROVIDE OPTICAL FIBER PATCH PANEL THAT IS CAPABLE OF TERMINATING A MINIMUM OF 12 STRANDS.
2. PATCH PANELS SHALL BE EIA NINETEEN (19) INCH, RACK MOUNTED, PRELOADED WITH DUPLEX LC COUPLINGS DEFINED AS 568LC.
3. THE TWO FIBER POSITIONS ON THE 568LC CONNECTOR AND CORRESPONDING 568LC COUPLER SHALL BE REFERRED TO AS POSITION A AND POSITION B. THE 568LC COUPLER/ADAPTER SHALL PERFORM PAIR-WISE CROSSOVER BETWEEN CONNECTORS. THE TWO POSITIONS OF THE 568LC CONNECTOR AND THE 568LC COUPLER/ADAPTER SHALL BE IDENTIFIED AS POSITION A AND POSITION B VIA LETTER DESIGNATORS A AND B RESPECTIVELY. FOR SMALL FORM FACTOR (SFF) CONNECTORS, PROVIDE CORRECT ORIENTATION FOR CROSSOVER BETWEEN ACTIVE EQUIPMENT PORTS AND FIBER JUMPERS FOR TRANSMIT (TX) AND RECEIVE (RX) PER THE MANUFACTURER'S INSTRUCTIONS.
4. APPLICABLE LASER SAFETY LABELING PURSUANT TO ANSI Z136.2 AND IEC 825 PART 2 MUST BE AFFIXED TO A VISIBLE SURFACE ON THE FRONT OF THE PANEL. PROVIDE LARGE BOLD LABEL INDICATING INFORMATION SIMILAR TO THE FOLLOWING:
5. ACCEPTABLE MANUFACTURESRS: ORTRONICS OR APPROVED EQUAL

F. CABLE RUNWAY - (LADDER RACK)

1. PROVIDE PRODUCTS MEETING THE REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS FROM ONE OF THE FOLLOWING MANUFACTURERS.
   a. CHATSWORTH
   b. B-LINE
   c. OR APPROVED EQUAL
2. ALL CABLE RUNWAYS SHALL BE FACTORY FABRICATED AND OF AN APPROVED MANUFACTURER AND FITTINGS AND ACCESSORIES USED IN CONJUNCTION WITH SHALL BE OF THE SAME MANUFACTURER. THEY SHALL HAVE ADEQUATE MECHANICAL STRENGTH AND STABILITY. CABLE TRAY SYSTEM SHALL BE ERECTED COMPLETE BEFORE CABLE IS INSTALLED THEREON.
3. THE CABLE RUNWAY SHALL BE PROVIDED WITH ALL TEES, ELBOWS, BONDING JUMPERS AND SIMILAR FITTINGS. THE INTERNAL SURFACES OF ALL ERECTED CABLE RUNWAY AND SHALL BE SMOOTH AND FREE FROM DEFECTS.
4. RUNWAYS SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO THE LINES OF THE BUILDING HORIZONTALLY OR VERTICALLY.
5. ALL SUPPORTS OF TRAY SHALL BE SPACED NOT MORE THAN 5 FEET APART. EACH TRAY CONJUNCTION EACH TEE, ELBOW AND OTHER FITTING SHALL BE SUSPENDED OR SECURED COMPLETELY. WALL SUPPORTS FOR CABLE RUNWAYS SHALL BE SPECIFICALLY DESIGNED FOR THE USE AND PROPERLY SECURED TO THE BUILDING.
6. HORIZONTAL CABLE RUNWAYS SHALL NOT BE INSTALLED BELOW WATER PIPING. CABLE TRUNKING SHALL BE KEPT AT LEAST 18 INCHES (457 MM) FROM PARALLEL RUNS OF WATER OR WASTE PIPES.
7. MATERIAL FOR CONSTRUCTION SHALL BE STEEL WITH FINISH OF EPOXY-POLYESTER HYBRID POWDER COATING.
8. CABLE RUNWAY SHALL BE OF HIGH STRENGTH 3/8" X 1.5" X .065" WALL RECTANGULAR STEEL TUBING CONSTRUCTION.
9. GROUND ALL LADDER RACKING TO THE GROUNDING BUSBAR.

G. WALL MOUNT CABINET

1. PROVIDE TRIPPLITE 12 RACK UNIT WALL MOUNT CABINET P/N SRW12U
2. MAXIMUM LOAD CAPACITY OF 200 LBS.
3. LOCKING STEEL CABINET VENTED AT SIDES, FRONT, TOP AND BOTTOM.
4. DEPTH OF CABINET SHALL BE A MINIMUM OF 20".
5. THE CABINET SHALL HAVE BUILT IN CABLE MANAGEMENT.
6. PROVIDE BACKBOARD FOR CABINET MOUNTING.
7. MOUNT CABINET PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

H. MULTIMEDIA IN-WALL STORAGE BOX

1. PROVIDE CHIEF PAC525 IN-WALL STORAGE BOX.

I. PATCH CORDS AND EQUIPMENT/LINE CORDS

1. PATCH CABLES SHALL BE FACTORY PRE-CONNECTORIZED. COPPER PATCH AND EQUIPMENT/LINE CORDS SHALL HAVE ANSI/TIA/EIA T568B PIN/PAIR TERMINATION ASSIGNMENT, COMPLIANT TO THE ELECTRICAL PERFORMANCE CRITERIA OF THE CATEGORY 6 STANDARD, FOUR (4) PAIR UTP, 8-POSITION MODULAR JACK, STRANDED CONDUCTORS. COPPER PATCH CABLES AND LINE CORDS SHALL BE ABLE TO WITHSTAND A MINIMUM OF 200 JACK MATING CYCLES WITHOUT ANY TRANSMISSION DEGRADATION.
2. PROVIDE (1) 10' AND (1) 5' PATCH CORD PER CABLE INSTALLED.

J. J-HOOKS: ERICO/CADDY, B-LINE, CHATSWORTH,

1. J-HOOKS SHALL BE SIZED TO CORRECTLY SUPPORT THE NUMBER OF CABLES WHICH PASS THROUGH THEM. UNDER NO CIRCUMSTANCES SHALL CABLE QUANTITY EXCEED 30 IN ANY GIVEN SUPPORT. FILL CAPACITY SHALL BE AS REQUIRED BY CODE FOR CONDUIT. THAT IS TO SAY THAT EVERY J-HOOK SHALL HAVE A MAXIMUM OF 40 PERCENT FILL CAPACITY. INSTALL ADDITIONAL SUPPORTS AS REQUIRED.

K. HOOK AND LOOP FASTENERS: CHATSWORTH, ORTRONICS

1. HOOK AND LOOP FASTENERS SHALL BE DESIGNED FOR THEIR SPECIFIC APPLICATION. FOR EXAMPLE, IF A HOOK AND LOOP FASTENER IS USED TO SUPPORT CABLES TO A CABINET, IT SHALL HAVE A GROMMET OPENING FOR USE WITH A 12-24 RACK MOUNTING SCREW.

L. UNINTERRUPTABLE POWER SUPPLY (UPS)

1. PROVIDE APC SMART 2KVA UPS
2. THE UPS SHALL BE RACK MOUNTED AND BE 2RU.
3. OUTPUT FREQUENCY 57-63 Hz OR 60 Hz NOMINAL.
4. OUTPUT - (6) 5-15R.
5. INPUT - 120VOLT
6. PROVIDE BATTERY PACK FOR A MINIMUM OF 1 HOUR RUNTIME.

III. INSTALLATION

A. CABLE PROTECTION

1. PROVIDE SLEEVES AND BUSHINGS AND SEAL AS REQUIRED AT ALL PENETRATIONS
2. CABLES DAMAGED DURING INSTALLATION SHALL NOT BE REPAIRED. THEY SHALL BE COMPLETELY REPLACED WITH NEW CABLE.

B. TWISTED PAIR TESTING:

1. A PERFORMANCE VERIFICATION TEST TO THE ANSI TIA/EIA CATEGORY 6 STANDARD IS NECESSARY. THE FIELD TESTER MUST MEET THE FOLLOWING MINIMUM PERFORMANCE REQUIREMENTS:
   a. LEVEL FOUR (LEVEL IV) ACCURACY MEETING THE ANSI TIA/EIA CATEGORY 6 STANDARD PERFORMANCE CRITERIA. PROVIDE MANUFACTURER-GUARANTEED LEVEL IV PERFORMANCE FIELD TEST DEVICES.
   1) THESE CRITERIA SHALL BE USED FOR VERIFICATION OF THE PLANT TO THE PERFORMANCE CRITERIA OF THE ANSI TIA/EIA CATEGORY 6 STANDARD.
   2) TESTING SHALL BE PERFORMED FOR THE PERMANENT LINK CONFIGURATION MODEL. TESTING SHALL BE PERFORMED FOR THE FOLLOWING:
      a) CABLE LENGTH MEASUREMENTS: LENGTH IS DETERMINED BY THE PROPAGATION OF DELAY OF SIGNALS AND DEPENDS ON THE TWIST HELIX AND DIELECTRIC MATERIALS. NOTE: CALIBRATION OF NOMINAL VELOCITY OF PROPAGATION (NVP) IS CRITICAL TO THE ACCURACY OF THE LENGTH MEASUREMENTS WHEN ESTIMATING FROM EITHER FREQUENCY OR TIME DOMAIN METHODS.
         (1) THE MAXIMUM PHYSICAL LENGTHS FOR
            (a) CHANNEL = 100 METERS (328 FEET) INCLUDING EQUIPMENT CORDS AND PATCH CORDS.
            (b) BASIC LINK = 94 METERS (308 FEET) INCLUDING TEST EQUIPMENT CORDS.
            (c) PERMANENT LINK = 90 METERS (295 FEET) EXCLUSIVE OF CORDAGE.
      b) WIRE MAP: INDICATING CORRECT PAIR TO PIN POSITIONING AND DETECTING THE FOLLOWING FAULTS:
         (1) OPEN CONDUCTORS
         (2) CONDUCTORS SHORTED TO GROUND OR ANOTHER CONDUCTOR
         (3) POLARITY REVERSALS/ CROSSED PAIRS
         (4) PAIR TRANSPOSITIONS
         (5) ANY DISCONTINUITY TO THE REMOTE END
         (6) SPLIT PAIRS
         (7) ANY OTHER MISS-WIRING
      c) ATTENUATION
         (1) LINK ATTENUATION SHALL INCLUDE ALL CONNECTION HARDWARE
      d) NEAR-END CROSS-TALK (NEXT)
         (1) NEXT SHALL BE MEASURED FROM BOTH ENDS OF THE CABLE OR LINK UNDER TEST. FOR ACCURATE MEASUREMENTS, AT LEAST 380 LINEARLY SPACED SAMPLE POINTS IN A 100 MHZ SWEEP ARE REQUIRED.
      e) ATTENUATION TO CROSS-TALK RATIO (ACR)
      f) PROPAGATION DELAY
      g) CHARACTERISTIC IMPEDANCE
      h) LOOP RESISTANCE
      i) CAPACITANCE
      j) NOISE (IMPULSE AND PEAK-TO-PEAK)
   3) THE TEST EQUIPMENT SHALL COMPLY WITH TIA/EIA-568-C LEVEL IV ACCURACY AT THE LINK AND CHANNEL PERFORMANCE CRITERIA AND SHALL BE CERTIFIED BY AN INDEPENDENT TEST LABORATORY.

C. SMOKE AND FIRE STOPPING SEALS

1. PROVIDE A SEAL AROUND RACEWAYS OR CABLES PENATRATING FULL HEIGHT WALLS (SLAB TO SLAB), FLOORS OR VENTILATION OR AIR HANDLING DUCTS SO THAT THE SPREAD OF FIRE OR PRODUCTS OF COMBUSTION SHALL NOT BE SUBSTANTIALLY INCREASED.
2. PENETRATIONS THROUGH FIRE-RESISTANT-RATED WALLS, PARTITIONS, FLOORS OR CEILINGS SHALL BE FIRE STOPPED USING APPROVED METHODS AND NRTL LISTED PRODUCTS TO MAINTAIN THE FIRE RESISTANCE RATING.
3. FIRE STOPPING IN SLEEVES OR IN AREAS THAT MAY REQUIRE THE ADDITION OR MODIFICATION OF INSTALLED CABLES OR RACEWAYS SHALL BE A SOFT, PLIABLE, NON-HARDENING FIRE STOP PUTTY. PUTTY SHALL BE WATER RESISTANT AND INTUMESCENT. PROVIDE FOR ALL SLEEVES AND RACEWAYS.
4. INSTALLATION METHODS SHALL CONFORM TO A UL FIRE STOPPING SYSTEM. SUBMIT SPECIFICATIONS AND INSTALLATION DRAWINGS FOR THE TYPE OF MATERIAL TO BE USED FOR APPROVAL PRIOR TO INSTALLATION. FIRE STOPPING MATERIALS SHALL BE AS MANUFACTURERED BY STI, NELSON, 3M OR APPROVED EQUAL.

D. LABELING:

1. ALL WORK STATIONS AND PATCH PANELS SHALL BE LABELED AND ICONED.
2. LABELS SHALL BE CONSTRUCTED OF APPROVED MATERIALS IN ORDER TO MEET THE LEGIBILITY, DEFACEMENT, ADHESION AND EXPOSURE REQUIREMENTS OF UL 969. ALL LABELS SHALL BE MOUNTED HORIZONTALLY IN ORDER TO READ FROM LEFT TO RIGHT.

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WLHS PPS PROJECT

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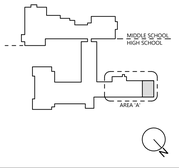
KEY PLAN



SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

TECHNOLOGY SPECIFICATION

T002

SECURITY SPECIFICATION

1. GENERAL

A. THE WORK COVERED CONSISTS OF:
FURNISHING ALL LABOR AND MATERIALS NECESSARY TO INSTALL, COMPLETE AND READY FOR CONTINUOUS OPERATION, THE ACCESS CONTROL SYSTEM FOR THE MOUNT PLEASANT 2024 WHS PPS PROJECT.

B. SHOP DRAWINGS OF ALL SPECIFIED FIXTURES, EQUIPMENT AND APPARATUS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

C. CODES: ALL EQUIPMENT AND MATERIALS FURNISHED UNDER THE SECURITY SUBCONTRACTS AND LABOR PERFORMED HEREIN SHALL BE IN COMPLETE ACCORDANCE WITH THE NEW YORK STATE BUILDING, THE CITY OF THORNWOOD, NATIONAL FIRE PROTECTION ASSOCIATION, ANSI/EIA/TIA STANDARDS AND INSURANCE REGULATIONS AND REQUIREMENTS GOVERNING SUCH WORK.

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F. RECORD DRAWINGS: THE SECURITY SUBCONTRACTOR SHALL MAINTAIN AT THE JOB, AT ALL TIMES, A COMPLETE AND SEPARATE SET OF BLACK LINE PRINTS OF THE SECURITY DRAWINGS OF HIS TRADE ON WHICH HE SHALL MARK CLEARLY, NEATLY, ACCURATELY AND PROMPTLY AS THE WORK PROGRESSES. SEPIA REPRODUCIBLE "AS-BUILTS" SHALL BE FURNISHED BY THE SECURITY SUBCONTRACTOR AT THE JOB COMPLETION.

G. INSPECTION: ALL WORK SHALL BE SUBJECT TO THE INSPECTION OF THE OWNER, THE ENGINEER AND SUCH OTHER INSPECTORS HAVING JURISDICTION. A PROPERLY EXECUTED CERTIFICATE OF INSPECTION SHALL BE PROVIDED.

H. TESTS: THE SECURITY SUBCONTRACTOR SHALL PERFORM ALL TESTS AT THE COMPLETION OF THE WORK AND THE RESULTS FURNISHED TO THE OWNER AND ENGINEER IN WRITING.

I. UPON COMPLETION OF ALL WORK, THE SECURITY SUBCONTRACTOR SHALL FURNISH, IN DUPLICATE, CERTIFICATES OF INSPECTIONS FROM ALL INSPECTORS AND AUTHORITIES HAVING JURISDICTION.

2. SCOPE

A. THE WORK OF THIS SECTION CONSISTS OF ALL LABOR, MATERIALS AND SUPPORT EQUIPMENT AS INDICATED. CONTRACTOR IS REQUIRED TO PROVIDE ALL SECURITY WORK, NOT SPECIFICALLY DESCRIBED IN OTHER TRADES. COMPLETE ALL WORK AS SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS NECESSARY FOR A PROPER INSTALLATION.

B. PROVIDE PROXIMITY CARD READERS, CONCEALED DOOR POSITION SWITCHES AND REQUEST-TO-EXIT MOTION SENSORS AS INDICATED ON THE SECURITY DEVICE DRAWINGS.

C. DOOR CONTACTS SHALL BE WIRED TO BOTH THE DSC INTRUSION PANEL AND THE ACCESS CONTROL PANEL SIMULTANEOUSLY VIA A DPDT DOOR CONTACTS.

D. PROVIDE MANUFACTURES RECOMMENDED POWER SUPPLIES AS REQUIRED. THE POWER SUPPLIES SHALL BE UL CLASS II, POWER LIMITED AND SHALL PROVIDE NECESSARY OUTPUT VOLTAGES TO ALLOW THE CARD READERS TO OPERATE AT MAXIMUM SPECIFIED READ RANGE.

3. ALL CARD READERS SHALL MEET THE FOLLOWING REQUIREMENTS:

A. THE CARD READER SHALL BE PROXIMITY TECHNOLOGY AND SHALL READ ENCODED DATA FROM ACCESS CARDS AND TRANSMIT THE DATA TO THE DATA GATHERING PANEL. THE OPERATING FREQUENCY SHALL MEET ALL LOCAL REGULATIONS.

B. A TWO-COLOR LED AND AN AUDIBLE TONE SHALL INDICATE AUTHORIZED AND UNAUTHORIZED READER USES. OPERATION OF LEDS, AND AUDIBLE TONES SHALL BE CONSISTENT THROUGHOUT.

C. THE CARD READER AND BIT PATTERN SHALL NOT BE PROPRIETARY TO A SINGLE CONTRACTOR OR SMS MANUFACTURER.

D. PROVIDE FOR 100 CREDENTIALS.

E. ACCEPTABLE MANUFACTURER: HID ICLASS.

4. WALL MOUNTED PROXIMITY CARD READER

A. SHALL BE SPECIFICALLY DESIGNED FOR FLUSH MOUNTING TO THE WALL USING A DOUBLE GANG ELECTRICAL BOX WITH A SINGLE GANG DEVICE RING.

B. THE WALL MOUNTED CARD READER SHALL HAVE A MINIMUM READ RANGE OF 3 INCHES.

C. ACCEPTABLE MANUFACTURER: HID ICLASS.

5. ACCESS CONTROL CARD PRINTER

A. SIDE PRINTING: SINGLE OR DUAL.

B. PRINT METHOD: DYE SUBLIMATION / RESIN THERMAL TRANSFER.

C. RESOLUTION: 300 DPI.

D. PRINT SPEED: 16 SECONDS PER CARD / 225 CARDS PER HOUR (YMCKO)

E. SOFTWARE: FARGO WORKBENCH PRINTER MAINTENANCE AND DIAGNOSTIC SOFTWARE WITH COLOR ASSIST SPOT-COLOR MATCHING.

F. DATA PROTECTION: AES-256 ENCRYPTION ON THE PRINTER OVER A SECURE NETWORK.

G. CARD CAPACITY: 100 CARD INPUT, 30 CARD OUTPUT (DUAL-SIDED: UP TO 100 CARDS)

H. ACCEPTABLE MANUFACTURER: HID

5. REQUEST-TO-EXIT MOTION SENSOR.

A. MINIMUM SPECIFICATIONS:

1) DETECTION TECHNOLOGY PASSIVE INFRARED
2) DETECTION PATTERN ADJUSTABLE TO PROVIDE COVERAGE OF IMMEDIATE DOOR AREA.
3) OUTPUT CONTACT NORMALLY OPEN CONTACT THAT CLOSES MOMENTARILY (ONE SECOND OR LESS) WHEN SENSOR IS ACTIVATED
4) POWER REQUIREMENTS 12-24 VDC
5) MOUNTING SURFACE MOUNT TO WALL OR CEILING B. PROVIDE A MANUFACTURER RECOMMENDED POWER SUPPLY. THE POWER SUPPLY SHALL BE UL CLASS II, POWER LIMITED.

B. ACCEPTABLE MANUFACTURER: BOSCH

6. ELECTRIC LOCKING MECHANISM POWER SUPPLY.

A. MINIMUM SPECIFICATIONS:

1) TYPE UL LISTED CLASS II POWER LIMITED
2) INPUT VOLTAGE 120 VAC
3) OUTPUT VOLTAGE 24 VDC
4) OUTPUT CONNECTIONS INDIVIDUALLY FUSED OUTPUTS TO EACH LOCK
5) OUTPUT RATING 150 PERCENT OF THE ACTUAL CONNECTED LOAD
6) ALARM OUTPUT POWER FAIL
7) ENCLOSURE STEEL ENCLOSURE WITH INTEGRAL LOCK AND TAMPER SWITCH

B. ACCEPTABLE MANUFACTURERS:

1) ALARM-SAF
2) ALTRONIX
3) DOORTRONICS
4) OR APPROVED EQUAL

7. CONCEALED DOOR POSITION SWITCH.

A. MINIMUM SPECIFICATIONS:

1) GAP 1/2 INCH BETWEEN THE MAGNET AND SWITCH
2) CONFIGURATION NORMALLY CLOSED WHEN THE DOOR IS CLOSED
3) SECURITY BIASED
4) MOUNTING AS RECOMMENDED BY THE DOOR POSITION SWITCH MANUFACTURER
5) DPDT

B. ACCEPTABLE MANUFACTURER: INTERLOGIX 1076

8. DOOR RELEASE BUTTON

A. ACCEPTABLE MANUFACTURER: ADI GLOBAL OR APPROVED EQUAL.

9. VIDEO INTERCOM

A. ACCEPTABLE MANUFACTURER: AVIGILON H4.

10. ACCESS CONTROL/INTRUSION WIRE MINIMUM SPECIFICATIONS:

A. ALL WIRE AND CABLE SHALL BE UNDERWRITER'S LABORATORIES (UL) APPROVED FOR ITS INTENDED APPLICATION, SHALL MEET ALL NATIONAL, STATE AND LOCAL CODE REQUIREMENTS FOR ITS APPLICATION, AND SHALL MEET OR EXCEED MANUFACTURERS' RECOMMENDATIONS FOR THE COMPONENTS CONNECTED. PROVIDE PLENUM-RATED CABLE AS REQUIRED BY CODE.

B. ALL WIRE AND CABLE SHALL MEET INDIVIDUAL SYSTEM OR SUBSYSTEM MANUFACTURER SPECIFICATIONS.

C. ALL INSULATED WIRE AND CABLE SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF INSULATED CABLE ENGINEERS

D. ASSOCIATION (ICEA) STANDARDS. WIRE AND CABLE SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC),

E. LATEST EDITION. IN REGARDS TO CABLE CONSTRUCTION AND USAGE. THE CONDUCTORS OF WIRES SHALL BE COPPER, AND HAVE CONDUCTIVITY IN ACCORDANCE WITH THE STANDARDIZATION

F. RULES OF THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC. (IEEE). THE CONDUCTOR AND EACH STRAND SHALL BE ROUND AND FREE OF KINKS AND DEFECTS. INSULATION SHALL BE RATED FOR A MINIMUM OF 300 V.

G. COLOR CODING SHALL BE ACCOMPLISHED BY USING SOLIDLY COLORED INSULATION. GROUNDING CONDUCTORS, WHERE INSULATED, SHALL BE COLORED SOLID GREEN OR IDENTIFIED WITH GREEN COLOR AS REQUIRED BY THE NATIONAL ELECTRIC CODE (NEC).

H. MINIMUM WIRE TYPES AND SIZES:

1) LOW VOLTAGE POWER CABLE: WIRE SIZE SHALL BE A MINIMUM OF 18 AWG, TWISTED, STRANDED, INSULATED AND JACKETED
2) CONTROL POINT CABLE (NON-POWER): WIRE SIZE SHALL BE A MINIMUM OF 20 AWG, TWISTED, STRANDED, INSULATED AND JACKETED
3) CONTROL POINT CABLE (LOW VOLTAGE POWER): WIRE SIZE SHALL BE A MINIMUM OF 18 AWG, STRANDED, INSULATED, AND JACKETED
4) ALL CABLE CARRYING DATA OR VOICE TRANSMISSIONS SHALL BE SHIELDED, ALL OTHER CABLE SHALL BE SHIELDED WHERE NECESSARY TO GUARANTEE INTERFERENCE-FREE SIGNALS

I. ACCEPTABLE MANUFACTURERS:

1) AT&T
2) BELDEN
3) WEST PENN WIRE
4) OR APPROVED EQUAL

9. DATA GATHERING PANEL

A. THE DATA GATHERING PANEL SHALL PROVIDE THE FOLLOWING:

1) AN INTELLIGENT INTERFACE BETWEEN CARD READERS AND THE FILE SERVER UTILIZING DISTRIBUTED PROCESSING TECHNOLOGY.
2) SIMULTANEOUS SUPPORT OF A MINIMUM OF TWO ACCESS CARD FACILITY CODES AND BIT-FORMATS. THE DATA GATHERING PANEL SHALL GRANT ACCESS THROUGH CARD READER CONTROLLED DEVICES BASED ON CARDHOLDER ACCESS LEVEL, ACCESS CARD FACILITY CODE, AND ACCESS CARD NUMBER.
3) SUPERVISED ALARM INPUTS TO MONITOR THE STATUS OF ALARM CIRCUITS AND REPORT THE STATUS INFORMATION TO THE SMS FILE SERVER. SUPERVISION OF ALL WIRING BETWEEN THE DATA GATHERING PANEL AND THE MONITORED ALARM DEVICES SHALL MEET UL 1076 GUIDELINES FOR 4-STATE SUPERVISION.
4) CONTROL RELAY OUTPUTS FOR CONTROLLING DEVICES BY REMOTE COMMAND FROM THE SYSTEM WORKSTATION, THROUGH TIME PROGRAMMING OR ON ALARM POINT ACTIVATION. OUTPUTS SHALL BE RATED FOR A MINIMUM OF 2A AT 24VDC.
5) SUPERVISION AND MONITORING OF ALL WIRING BETWEEN THE DATA GATHERING PANEL AND THE MONITORED ALARM DEVICES FOR SECURE, ALARM, AND FAULT CONDITIONS. SUPERVISION SHALL MEET UL 1076 GUIDELINES.
6) ADEQUATE RAM TO MAINTAIN A MINIMUM CARD DATABASE OF 10,000 CARDS INCLUDING ACCESS LEVELS AND TIME ZONES.
7) ETHERNET COMMUNICATIONS BETWEEN DATA GATHERING PANELS AND THE FILE SERVER.
8) AUTOMATIC DISCONNECTION FROM THE COMMUNICATION LOOP UPON A COMMUNICATION FAILURE WITHIN THE DATA GATHERING PANEL TO PREVENT COMMUNICATION TO OTHER DATA GATHERING PANELS IN THE LOOP FROM BEING INTERRUPTED.
9) INTRUSION ALARM INDICATION ON THE SYSTEM WORKSTATION IF A CARD READER CONTROLLED DOOR IS OPENED WITHOUT AN AUTHORIZED CARD USE OR REQUEST TO EXIT SIGNAL.
10) A DOOR PROP ALARM INDICATION ON THE SYSTEM WORKSTATION IF THE CARD READER CONTROLLED DOOR IS PROPPED OPEN PAST AN ADJUSTABLE TIME PERIOD AFTER AN AUTHORIZED CARD USE OR REQUEST TO EXIT. THE DOOR PROP TIME DELAY SHALL BE ADJUSTABLE FROM THE SYSTEM WORKSTATION FROM ONE TO 60 SECONDS ON A PER READER BASIS.
11) EACH DATA GATHERING PANEL SHALL INCLUDE ONE SPARE CARD READER INPUT POINT AND 20 PERCENT SPARE ALARM INPUT POINTS AND OUTPUT POINTS AFTER ALL SPECIFIED POINTS ARE INITIALLY CONNECTED.
12) A LOCKING STEEL ENCLOSURE DESIGNED FOR SURFACE MOUNTING. PROVIDE A TAMPER SWITCH TO SENSE THE REMOVAL OR OPENING OF THE ENCLOSURE COVER. PROVIDE ANY CONDUIT REQUIRED FROM THE DATA GATHERING PANEL TO POWER SUPPLIES, JUNCTION BOXED OR WIREWAYS. ALL DATA GATHERING PANELS SHALL BE KEYED ALIKE AND SHALL BE ON THE SAME KEY AS ALL SECURITY SYSTEM POWER SUPPLIES AND POWER DISTRIBUTION CABINETS.

B. UPON LOSS OF COMMUNICATION WITH THE FILE SERVER, THE DATA GATHERING PANEL SHALL CONTAIN ENOUGH RAM TO OPERATE NORMALLY. IN ADDITION, THE DATA GATHERING PANEL SHALL STORE UP TO 10,000 CARD TRANSACTIONS AND UP TO 16 EVENTS PER POTENTIAL ALARM INPUT, AND TRANSMIT THAT DATA TO THE FILE SERVER AS SOON AS COMMUNICATION IS RESTORED.

C. UPON VERIFICATION OF CARD AUTHORIZATION OR REQUEST TO EXIT THE DATA GATHERING PANEL SHALL ACTIVATE A DOOR CONTROL RELAY OUTPUT AND SHUNT THE INTRUSION ALARM. THE LOCK CONTROL OUTPUT CONTACTS SHALL BE RATED FOR 2 A @ 24 VDC. RELAY ACTIVATION TIME SHALL BE ADJUSTABLE FROM THE SYSTEM WORKSTATION FROM ONE TO 30 SECONDS ON A PER READER BASIS. THE DOOR SHALL AUTOMATICALLY RELOCK UPON CLOSURE.

D. TRANSACTION TIME FOR AUTHORIZED CARDS SHALL BE LESS THAN 0.5 SECONDS FROM THE TIME OF CARD READ UNTIL THE DOOR IS UNLOCKED.

E. ALL ALARM AND CONTROL POINTS AS WELL AS CARD READER INPUTS, SHALL BE CAPABLE OF INDEPENDENT TIME PROGRAMMING VIA SOFTWARE CONTROLS FROM THE SYSTEM FILE SERVER.

F. DATA GATHERING PANEL POWER SUPPLY SHALL BE DEDICATED TO DATA GATHERING PANELS AND SHALL NOT PROVIDE POWER FOR LOCKS OR ANY OTHER LOW VOLTAGE DEVICE.

G. ACCEPTABLE MANUFACTURERS:

1) AVIGILON

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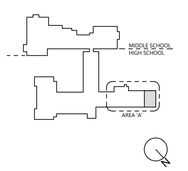
KEY PLAN



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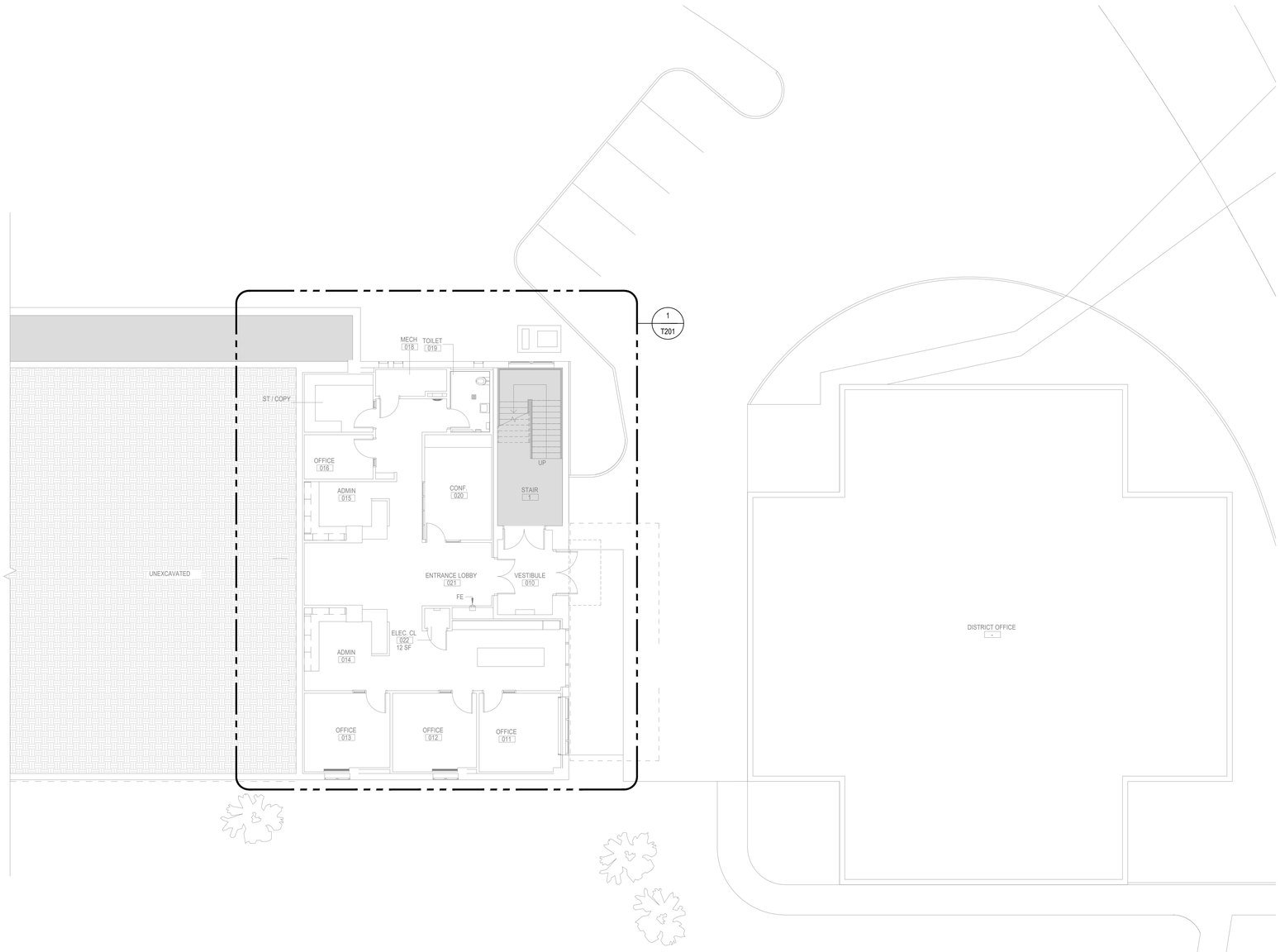
MEMASI PROJECT NO.	107-2201

TECHNOLOGY SPECIFICATION

T003



TECHNOLOGY OVERALL PLAN - PUPIL PERSONNEL SERVICES

1/8" = 1'-0"

1

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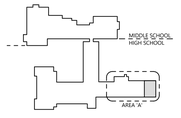

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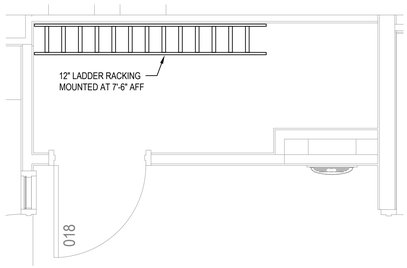
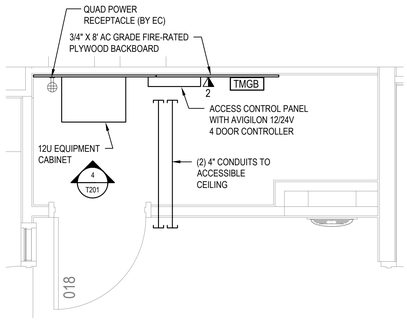
TECHNOLOGY OVERALL PLAN - PUPIL PERSONNEL SERVICES

T101



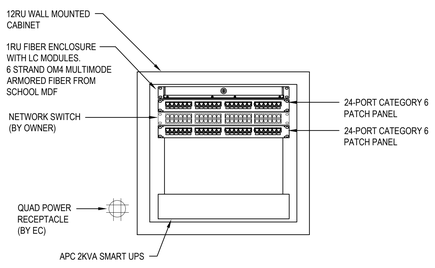
TECHNOLOGY ENLARGED MECH 018 LADDER RACK PLAN 2

1/2" = 1'-0"



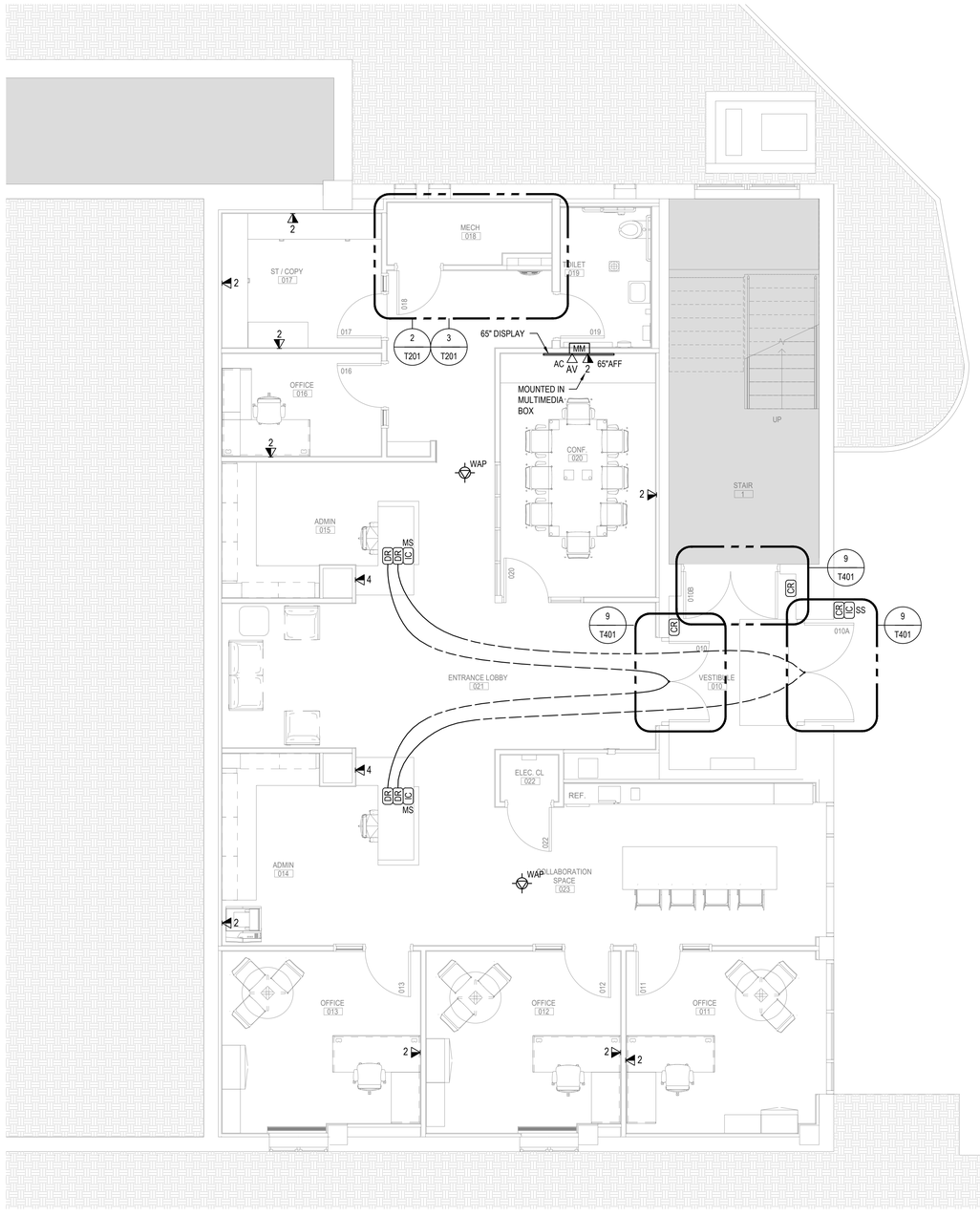
TECHNOLOGY ENLARGED MECH 018 EQUIPMENT PLAN 3

1/2" = 1'-0"



TECHNOLOGY EQUIPMENT CABINET ELEVATION 4

NTS



TECHNOLOGY ENLARGED PLAN - PUPIL PERSONNEL SERVICES 1

1/4" = 1'-0"

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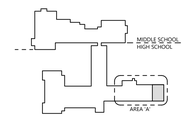

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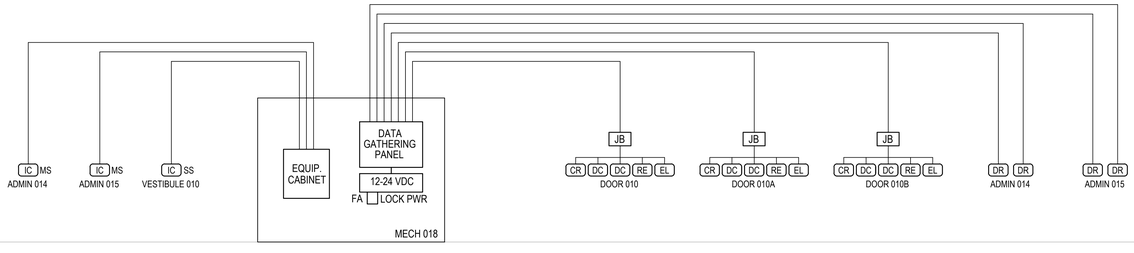
TECHNOLOGY ENLARGED PLAN - PUPIL PERSONNEL SERVICES

T201

ROOF PLAN



FLOOR PLAN

SECURITY RISER DIAGRAM

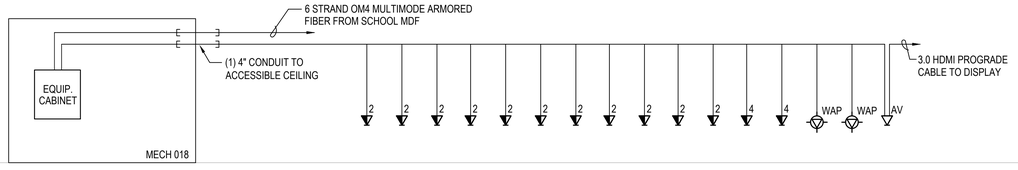
NTS

2

SECURITY SYMBOLS:

DC	DOOR CONTACT (1) 18/4 SHIELDED
CR	CARD READER (1) 22/6 SHIELDED
EL	ELECTRIC LOCK (1) 16/2 SHIELDED
RE	REQUEST-TO-EXIT (1) 18/4 SHIELDED
DR	DOOR RELEASE BUTTON (1) 18/4 SHIELDED
IC MS	INTERCOM MASTER STATION (1) CATEGORY 6 4-PAIR UTP CABLE
IC SS	VIDEO INTERCOM SUBSTATION (1) CATEGORY 6 4-PAIR UTP CABLE

ROOF PLAN



FLOOR PLAN

TELECOM RISER DIAGRAM

NTS

1

TELECOM SYMBOLS:

2	TELECOM. WALL MOUNTED 2-PORT OUTLET (2) CATEGORY 6 4-PAIR UTP CABLES
4	TELECOM. WALL MOUNTED 4-PORT OUTLET (4) CATEGORY 6 4-PAIR UTP CABLES
WAP	CEILING MOUNTED OUTLET FOR WIRELESS ACCESS POINT (2) CATEGORY 6 4-PAIR UTP CABLES
AV	AV WALL MOUNTED OUTLET (2) CATEGORY 6 4-PAIR UTP CABLES (1) 3.0 HDMI PROGRADE CABLE TO DISPLAY

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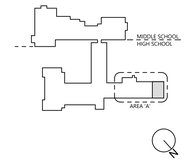

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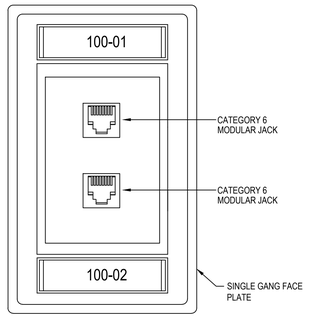
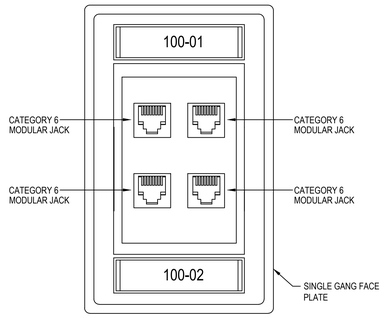
TECHNOLOGY RISER DIAGRAMS

T301



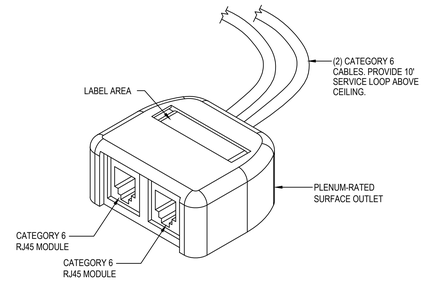
2

1 TELECOMMUNICATIONS 2-PORT OUTLET — NO SCALE



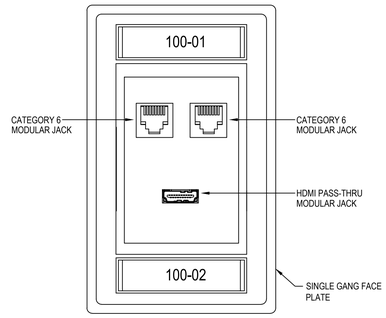
4

2 TELECOMMUNICATIONS 4-PORT OUTLET — NO SCALE



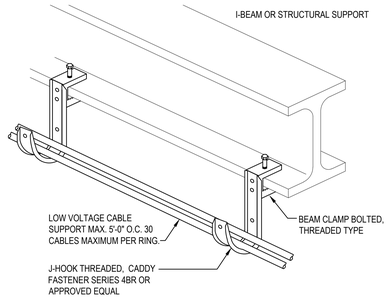
WAP

3 TECHNOLOGY 2-PORT SURFACE MOUNT OUTLET — NO SCALE



AV

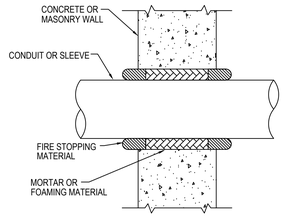
4 AV OUTLET — NO SCALE



NOTES:

1. SUPPORTING CABLE IS ACCEPTABLE BELOW SUPPORT STEEL OR ABOVE STEEL. COORDINATE MOUNTING LOCATIONS WITH OTHER TRADES AND FIELD CONDITIONS. PROVIDE SUPPORT CLIPS AND THREADED RODS AS REQUIRED FOR A COMPLETE SUPPORT SYSTEM AS INDICATED.
2. SUPPORT CABLE EITHER PARALLEL OR PERPENDICULAR TO SUPPORT STEEL.

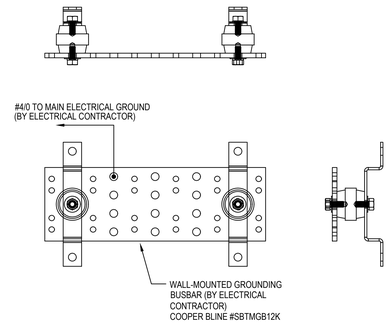
5 TYPICAL CABLE SUPPORT DETAIL — NO SCALE



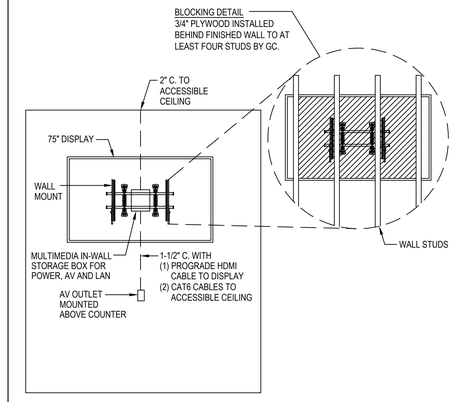
NOTES:

1. INSTALL FIRE STOPPING MATERIAL IN ACCORDANCE WITH MANUFACTURER TESTED METHODS.
2. INSTALL FIRE STOPPING MATERIAL INSIDE SLEEVES AFTER CABLE INSTALLATION IS COMPLETE.
3. ALWAYS RESTORE THE FIRE-RATING OF THE WALL TO IT'S INTENDED DESIGN.

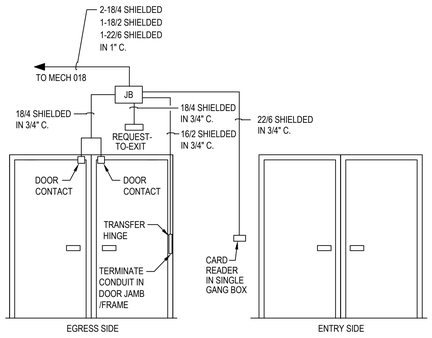
6 FIRESTOPPING DETAIL — NO SCALE



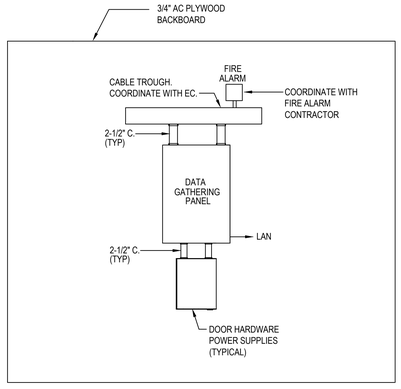
7 GROUNDING BAR DETAIL — NO SCALE



8 CONFERENCE ROOM DISPLAY DETAIL — NO SCALE



9 DOUBLE DOOR WIRING DIAGRAM WITH CARD READER — NO SCALE



10 SECURITY WALL FIELD (MECH 018) — NO SCALE

MOUNT PLEASANT CENTRAL SCHOOL DISTRICT

2024 WLHS PPS PROJECT

WESTLAKE MIDDLE / HIGH SCHOOL

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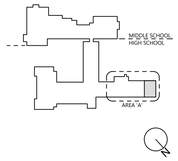
SEAL

ISSUE	DATE
ISSUED FOR BID	06/07/2024

KEY PLAN



SED PROJECT NO.	66-08-01-06-0-005-025
MEMASI PROJECT NO.	107-2201

TECHNOLOGY DETAILS

T401