

Ward Spaulding School Preschool Classroom Renovations

FOR CONSTRUCTION

AMENTA|EMMA
ARCHITECTS

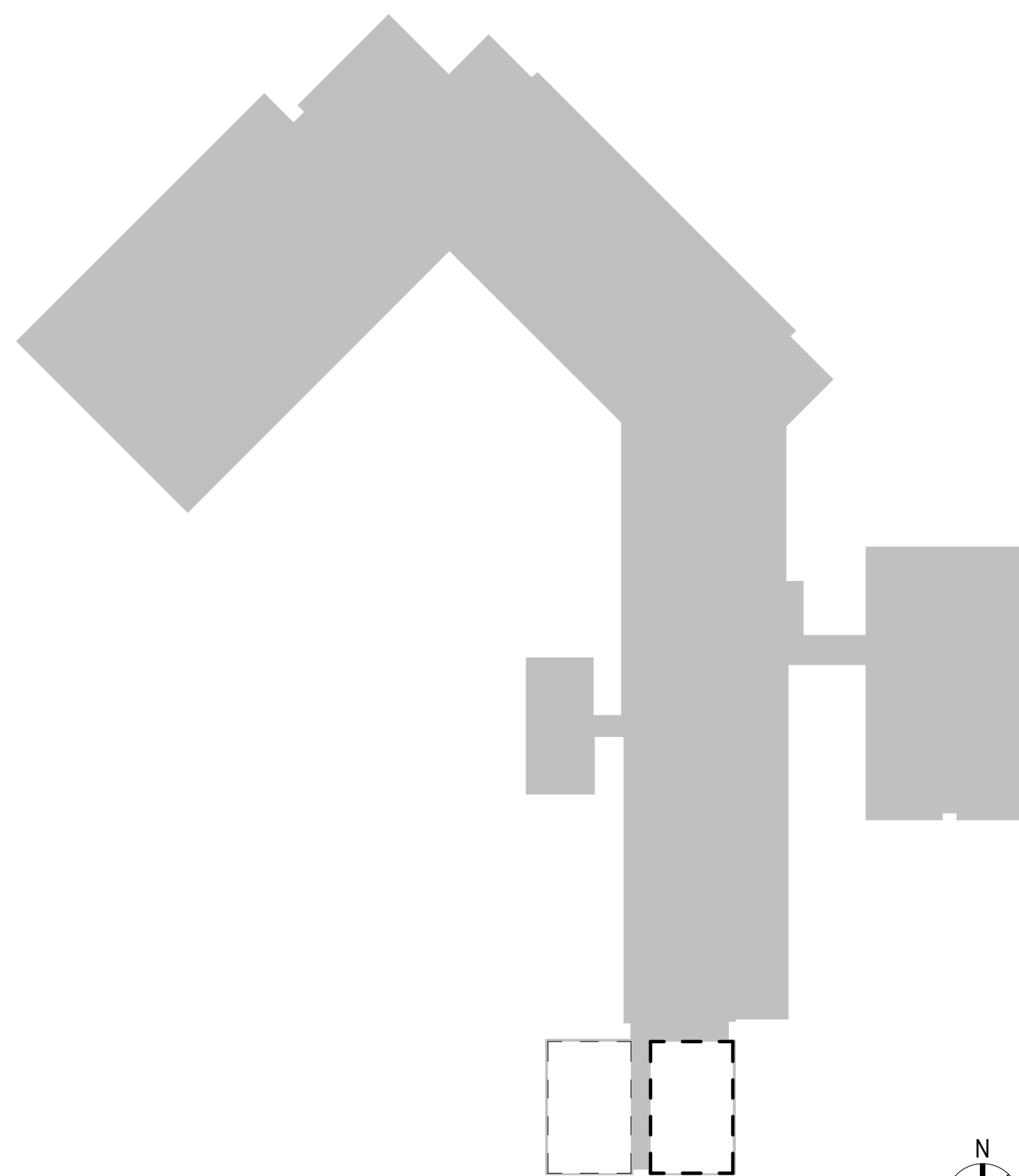
945 MOUNTAIN RD
WEST SUFFIELD, CT 06093

6.01.20

ALTERNATE 1 BASE SCOPE INCLUDES REMOVAL OF EXISTING CUBBIES IN ALL CLASSROOMS. AS ADD ALTERNATE, PROVIDE CUSTOM MILLWORK: WALL-MOUNTED CUBBIES AND STORAGE CABINETS IN ALL CLASSROOMS. REFER TO 19/A1.21 FOR TYPICAL SECTION.

ALTERNATE 2 BASE SCOPE INCLUDES VINYL COMPOSITION TILE, VCT-1, IN STORAGE ROOMS AND CLASSROOMS, TO THE EXTENT INDICATED, AS ADD ALTERNATE, PROVIDE RUBBER FLOORING, RB-1, THROUGHOUT ENTIRETY OF ALL CLASSROOMS AND STORAGE ROOMS. REMOVE EXISTING FLOORING IN CLASSROOMS AND STORAGE ROOMS IN ENTIRETY AND PREP FLOORS TO RECEIVE NEW FLOORING. REFER TO FINISH SCHEDULE.

ALTERNATE SCHEDULE



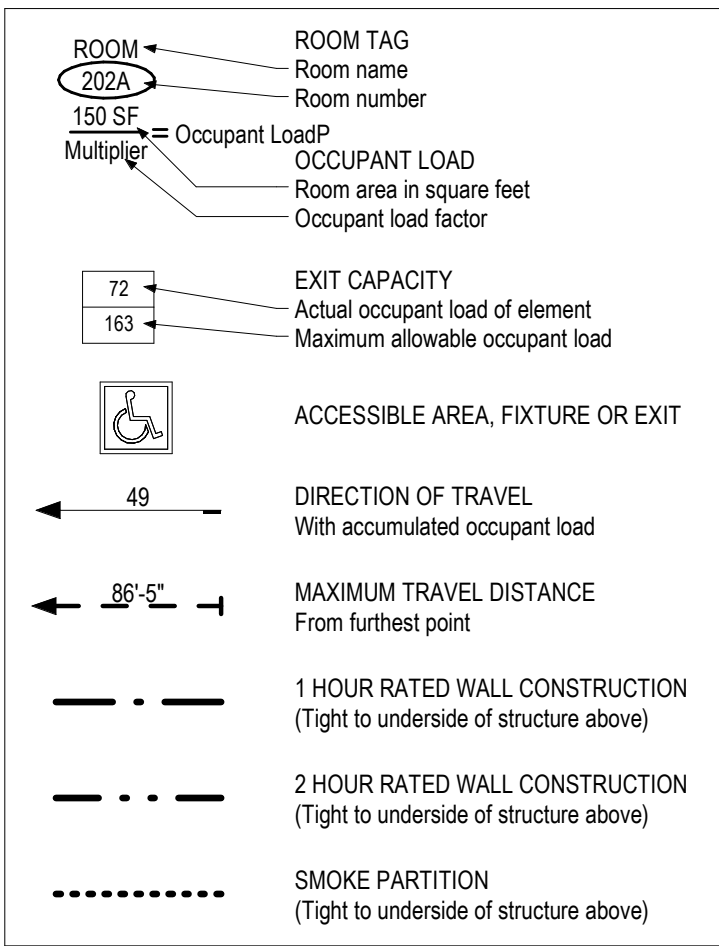
STATE BUILDING CODE (IBC International Building Code 2015, as supplemented in 2018)

APPLICABLE CODES:
- 2015 INTERNATIONAL BUILDING CODE, 2018 CONNECTICUT SUPPLEMENT
- 2015 INTERNATIONAL FIRE CODE, 2018 CONNECTICUT SUPPLEMENT
- 2010 AMERICANS WITH DISABILITIES ACT AND ASSOCIATED GUIDELINES
- 2009 ICC/ANSI A117.1 - ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES, 2018 CONNECTICUT SUPPLEMENT
- 2015 INTERNATIONAL PLUMBING CODE, 2018 CONNECTICUT SUPPLEMENT
- 2015 INTERNATIONAL MECHANICAL CODE, 2018 CONNECTICUT SUPPLEMENT
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE, 2018 CONNECTICUT SUPPLEMENT
- 2017 NATIONAL ELECTRICAL CODE NFPA 70, 2018 CONNECTICUT SUPPLEMENT
- 2015 INTERNATIONAL EXISTING BUILDING CODE, 2018 CONNECTICUT SUPPLEMENT

- 2018 CONNECTICUT STATE FIRE SAFETY CODE
Part I: ADMINISTRATIVE
Part II: GENERAL
Part III: NEW CONSTRUCTION, RENOVATION, OR CHANGE OF USE
2015 INTERNATIONAL FIRE CODE
Part IV: EXISTING BUILDING / OCCUPANCIES

1.	USE GROUP CLASSIFICATION (SECTION 304)	E (EDUCATION)
2.	CONSTRUCTION TYPE (TABLE 503)	DAY CARE FACILITY FOR 3 TO 5-YEAR-OLDS
	MINIMUM TYPE REQUIRED	IIB
	ACTUAL TYPE PROVIDED	IIB
3.	FIRE RESISTANCE RATINGS (TABLE 601)	
	STRUCTURAL FRAME	0 HR(S)
	BEARING WALLS (EXTERIOR)	0 HR(S)
	BEARING WALLS (INTERIOR)	0 HR(S)
	NON BEARING WALLS (EXTERIOR)	0 HR(S)
	NON BEARING WALLS (INTERIOR)	0 HR(S)
	FLOOR CONSTRUCTION	0 HR(S)
	ROOF CONSTRUCTION	0 HR(S)
	TENANT SEPERATIONS	0 HR(S)
	EXIT ACCESS CORRIDORS	0 HR(S)
	SHAFTS AND ELEVATOR HOISTWAYS	0 HR(S)
	EXIT ENCLOSURES	0 HR(S)
3.	EXIT ACCESS TRAVEL DISTANCE (TABLE 1015.1)	
	USE GROUP CLASSIFICATION	E (EDUCATION)
	MAXIMUM ALLOWABLE	200'
	MAXIMUM PROVIDED	77'
	COMMON PATH OF TRAVEL (1013.3)	
	MAXIMUM ALLOWABLE	75'
	MAXIMUM PROVIDED	51'
4.	OCCUPANCY LOAD (TABLE 1004.1.2)	
	USE GROUP CLASSIFICATION	E (EDUCATION)
	USABLE SQUARE FOOTAGE	4,032
	TOTAL OCCUPANT LOAD	180
5.	FIRE PROTECTION SYSTEMS	
	AUTOMATIC SPRINKLER SYSTEM PER 903.3.1.1	
	PORTABLE FIRE EXTINGUISHERS TYPE	ABC 10 LB.
	TRAVEL DISTANCE	75' MAXIMUM

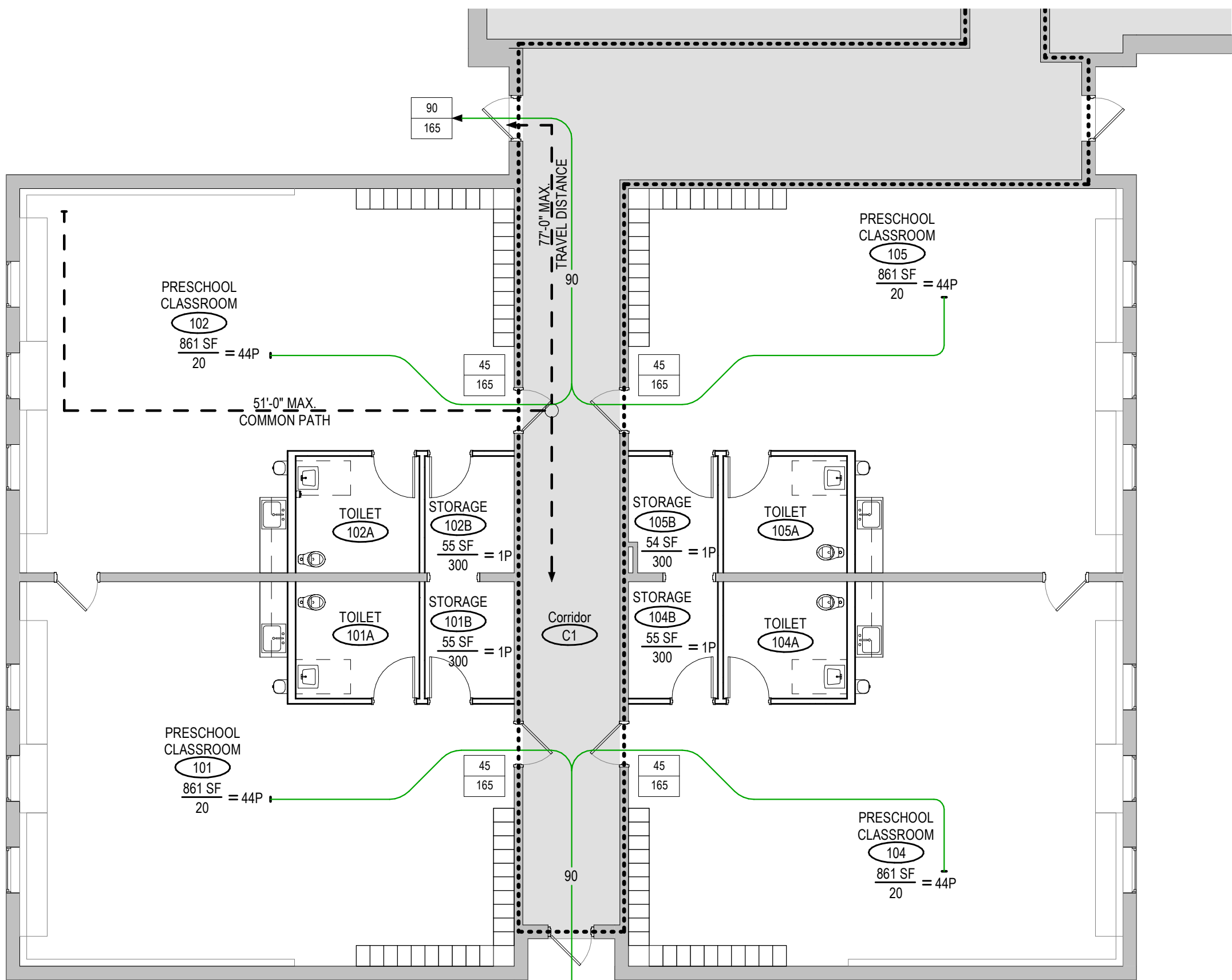
BUILDING CODE INFORMATION



OCCUPANCY / EGRESS LEGEND

SHEET NO.	DRAWING TITLE
G0.00	COVER, DRAWING INDEX, ALTERNATES, EGRESS PLAN, CODE INFORMATION, KEY PLAN
G1.00	GENERAL NOTES, ABBREVIATIONS, SYMBOL & GRAPHICS LEGEND, TYPICAL MOUNTING HEIGHTS
D1.00	DEMOLITION PLANS, DEMOLITION KEY NOTES
A1.00	CONSTRUCTION & FINISH PLANS & NOTES, DOOR, FRAME & HARDWARE SCHEDULES & DETAILS, PARTITION TYPES
A1.21	INTERIOR ELEVATIONS, MILLWORK DETAILS, ENLARGED TOILET ROOM PLAN AND ELEVATIONS, TOILET ACCESSORY DETAILS
A4.00	REFLECTED CEILING PLAN & NOTES
A8.00	SPECIFICATIONS
A8.01	SPECIFICATIONS
A8.02	SPECIFICATIONS
P0.01	PLUMBING LEGEND AND GENERAL NOTES
P1.00	PLUMBING PLANS
P2.00	PLUMBING SCHEDULES & ISOMETRIC DIAGRAM
P3.00	PLUMBING SPECIFICATIONS
M0.01	MECHANICAL ABBREVIATIONS, GENERAL NOTES AND SYMBOL LIST
M1.00	HVAC PLANS AND SCHEDULE
M3.00	MECHANICAL SPECIFICATIONS
E0.01	ELECTRICAL ABBREVIATIONS, GENERAL NOTES AND SYMBOL LIST
E1.01	ELECTRICAL DEMOLITION PLANS
E2.01	ELECTRICAL PLANS
E3.01	ELECTRICAL SPECIFICATIONS
Grand total: 20	

DRAWING INDEX



1 FIRST FLOOR EGRESS PLAN SCALE: 1/8" = 1'-0"

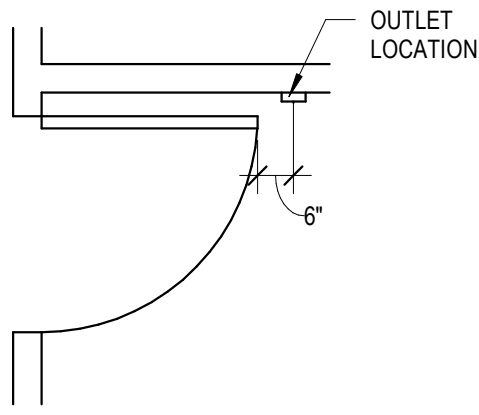


Suffield Public Schools
350 MOUNTAIN ROAD
SUFFIELD, CT 06078

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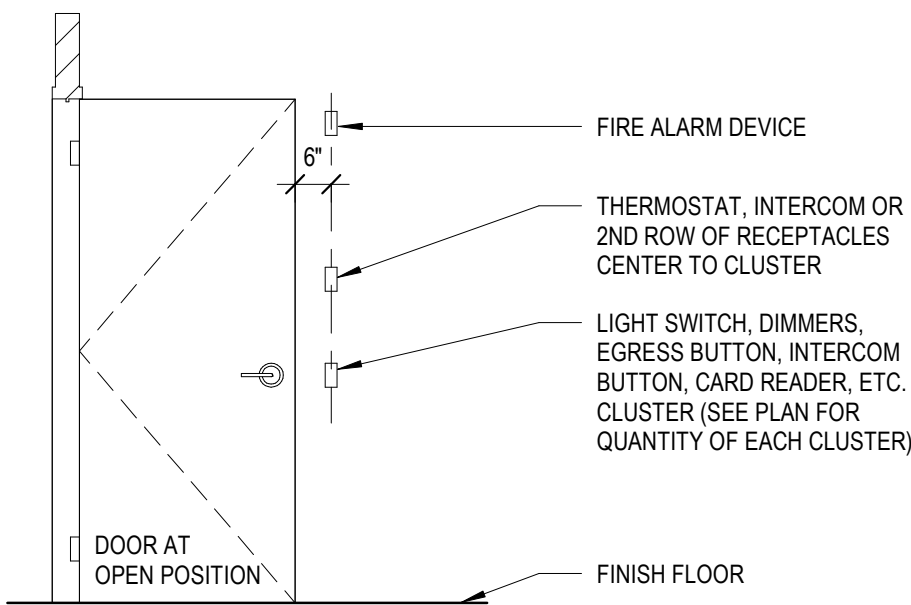
NOTE: ALL GANG OUTLETS SHALL BE VERTICALLY MOUNTED 18" A.F.F. AT DEVICE C.L.
ALL GANG OUTLETS SHALL BE HORIZONTALLY MOUNTED AT 6"



OF OUTLET AT
DOOR WHEN OPEN

20 TYPICAL MOUNTING LOCATION

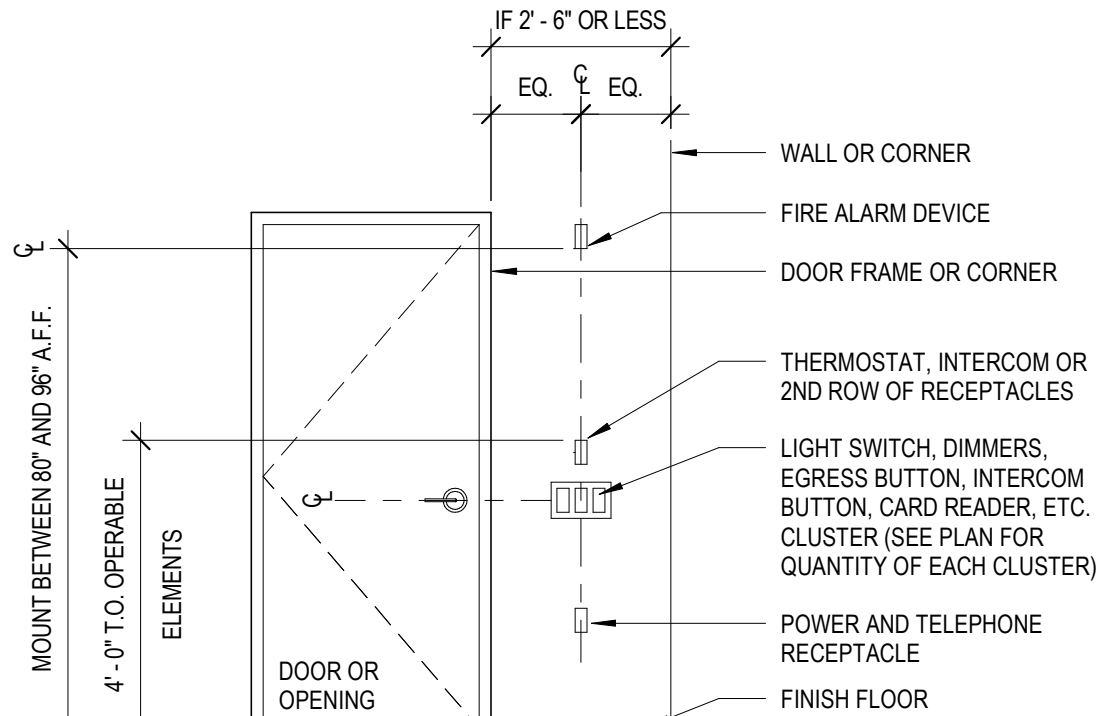
SCALE: 3/8" = 1'-0"



AT DOOR WHEN OPEN

19 TYPICAL MOUNTING HEIGHTS

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

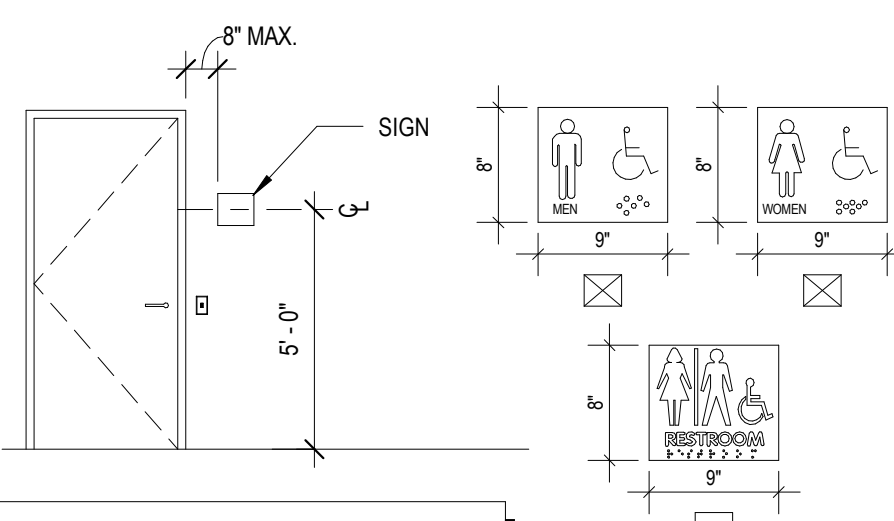


TYPICAL LOCATION FOR LIGHT SWITCHES, DIMMERS, EGRESS BUTTONS, THERMOSTATS, WALL HUNG TELEPHONE, FIRE ALARM DEVICES, FIRE EXTINGUISHER, ETC. ON WALLS 2'-6" OF LENGTH OR LESS

AT CORNER CONDITION

18 TYPICAL MOUNTING HEIGHTS

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



PROVIDE (1) SIGN PER TOILET COMPLYING WITH ADA LOCAL CODE. SIGNS TO HAVE RAISED AND GRADE 2 BRAILLE CHARACTERS AND PICTORIAL SYMBOL OF ACCESSIBILITY. MOUNT 5'-0" TO CENTERLINE A.F.F. SIGN SIZE 8" X 9". SIGN SHOULD BE ONE PIECE MELAMINE PLASTIC LAMINATE AS MANUFACTURED BY SUPERSINE CO, ASI SIGN SYSTEMS OR EQUIVALENT COLOR TO BE SELECTED BY ARCHITECT

COORDINATE SIGNAGE WITH OWNER OR OWNER'S VENDOR.

17 HANDICAPPED SIGNAGE INFORMATION

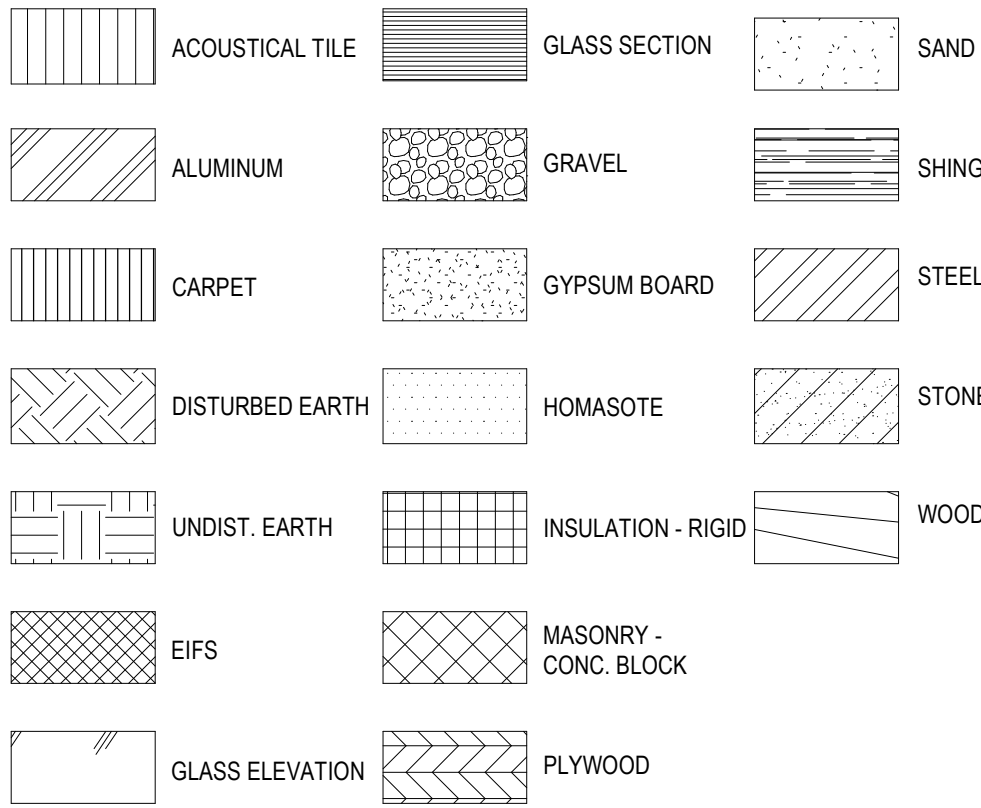
SCALE: 1/4" = 1'-0"

GENERAL NOTES

- THE TERM CONTRACTOR IS USED IN THESE NOTES TO IDENTIFY THE PARTY WHO IS CONTRACTED TO THE OWNER AND WHO CAUSES THE WORK OF THE CONTRACT TO BE PERFORMED EITHER BY HIS OWN FORCES OR BY OTHER CONTRACTORS RETAINED BY HIM.
- THE CONTRACTOR SHALL DO THIS WORK IN ACCORDANCE WITH LOCAL LAWS AND ORDINANCES HAVING JURISDICTION. IN ADDITION TO THE BUILDING PERMIT, THE CONTRACTOR SHALL OBTAIN ALL OTHER PERMITS AND APPROVALS AS REQUIRED BY LAW FOR THE COMPLETION OF THE WORK AND ISSUANCE OF A FULL CERTIFICATE OF OCCUPANCY.
- THE SUBMISSION OF A PROPOSAL BY THE CONTRACTOR WILL BE CONSTRUED AS EVIDENCE THAT A CAREFUL AND THOROUGH EXAMINATION OF THE SITE HAS BEEN MADE AND LATER CLAIMS FOR LABOR, MATERIALS OR EQUIPMENT REQUIRED OR FOR DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED. IT SHALL ALSO CONSTITUTE A REPRESENTATION THAT THE CONTRACTOR HAS CHECKED AND VERIFIED ALL QUANTITIES, WORK AND MATERIALS INVOLVED AND THAT HE SHALL TAKE RESPONSIBILITY FOR ANY DEFICIENCIES THEREIN.
- BEFORE ORDERING ANY MATERIAL OR DOING ANY WORK, EACH TRADE SHALL VERIFY ALL MEASUREMENTS IN THE FIELD AND SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SAME. NO EXTRA CHARGE OR COMPENSATION WILL BE ALLOWED ON ACCOUNT OF DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND THE MEASUREMENTS INDICATED ON THE DRAWINGS. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE ARCHITECT FOR CONSIDERATION AND CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
- ALL OF THE ARCHITECT'S DRAWINGS AND CONSTRUCTION NOTES ARE COMPLEMENTARY AND WHAT IS CALLED FOR BY EITHER WILL BE BINDING AS IF CALLED FOR BY ALL. ANY WORK SHOWN OR REFERRED TO ON ANY ONE DRAWING SHALL BE PROVIDED AS THOUGH SHOWN ON ALL DRAWINGS. WHENEVER AN ITEM IS SPECIFIED AND/OR SHOWN ON THE DRAWINGS BY DETAIL OR REFERENCE IT SHALL BE CONSIDERED TYPICAL FOR OTHER ITEMS WHICH ARE OBVIOUSLY INTENDED TO BE THE SAME EVEN THOUGH NOT SO DESIGNATED OR SPECIFICALLY NAMED BUT DO SERVE THE SAME FUNCTION.
- THE WORK TO BE PERFORMED CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, TOOLS, TRANSPORTATION, SUPPLIES, FEES, MATERIALS, AND SERVICES IN ACCORDANCE WITH THESE NOTES AND DRAWINGS AND PERFORMING ALL OPERATIONS NECESSARY TO CONSTRUCT AND INSTALL COMPLETE AND IN SATISFACTORY CONDITION THE VARIOUS MATERIALS AND EQUIPMENT AT THE LOCATIONS SHOWN. IT IS INTENDED THAT THE DRAWINGS INCLUDE EVERYTHING REQUISITE AND NECESSARY TO FINISH THE ENTIRE WORK PROPERLY, NOTWITHSTANDING THE FACT THAT EVERY ITEM NECESSARILY INVOLVED MAY NOT BE SPECIFICALLY MENTIONED OR SHOWN. ANY ITEM WHICH MAY BE REASONABLY CONSTRUED AS INCIDENTAL TO THE PROPER AND SATISFACTORY COMPLETION OF THE WORK IN ACCORDANCE WITH THE INTENT OF THESE NOTES AND DRAWINGS IS HEREBY INCLUDED.
- THE CONTRACTOR SHALL ABIDE BY AND COMPLY WITH THE TRUE INTENT AND MEANING OF THE DRAWINGS AND NOTES TAKEN AS A WHOLE AND SHALL BE RESPONSIBLE FOR ANY OBVIOUS ERRORS OR OMISSIONS, SHOULD ANY EXIST. SHOULD ANY ERROR OR DISCREPANCY APPEAR OR ANY DOUBT ARISE AS TO THE TRUE MEANING OF THE DRAWINGS OR NOTES, THE CONTRACTOR SHALL BRING SUCH ITEMS TO THE ATTENTION OF THE ARCHITECT BEFORE SUBMISSION OF PROPOSAL FOR EXPLANATION OR CORRECTION OF SAME. AFTER THE SUBMISSION OF PROPOSAL, THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL SUCH ITEMS.
- THE CHARACTER AND SCOPE OF THE WORK ARE ILLUSTRATED BY THE DRAWINGS AND NOTES. TO INTERPRET AND EXPLAIN THE DRAWINGS OTHER INFORMATION DEEMED NECESSARY BY THE ARCHITECT WILL BE FURNISHED TO THE CONTRACTOR WHEN AND AS REQUIRED BY THE WORK, AND IT IS TO BE UNDERSTOOD THAT SAID ADDITIONAL INFORMATION OR DRAWINGS ARE TO BE OF EQUAL FORCE WITH THESE.
- FULL SIZE OR LARGE SCALE DETAILS OR DRAWINGS SHALL GOVERN SMALL SCALE DRAWINGS WHICH THEY ARE INTENDED TO AMPLIFY. DETAILS OR CONDITIONS INDICATED FOR A PORTION OF THE WORK BUT NOT CARRIED OUT FULLY FOR OTHER PORTIONS THROUGHOUT TO ALL SIMILAR PORTIONS EXCEPT AS OTHERWISE SPECIFICALLY NOTED. IN EVERY CASE THE GREATER QUANTITY, OR A MORE EXPENSIVE ITEM OR METHOD SHALL BE ASSUMED OVER A LESSER QUANTITY OR A LESS EXPENSIVE ONE AND DIMENSIONS SHALL BE FIGURED RATHER THAN DETERMINED BY RULE OR SCALE.
- ALL PARTITIONS ARE DIMENSIONED TO THE FINISHED FACES OF WALLS. ALL PARTITION THICKNESSES SHOWN ARE NOMINAL DIMENSIONS.
- ALL MISCELLANEOUS WOOD BLOCKING, GROUNDS, FURRING AS REQUIRED, TO BE FIRE RETARDANT TREATED.
- THE PROJECT HAS BEEN DESIGNED AND DETAILED FOR THE SPECIFIC MATERIALS AND EQUIPMENT SPECIFIED. NO SUBSTITUTIONS SHALL BE MADE WITHOUT THE EXPRESS WRITTEN CONSENT OF THE ARCHITECT. IF THE SPECIFIED MATERIAL IS NOT AVAILABLE, THE CONTRACTOR SHALL PROPOSE AN ALTERNATE MATERIAL AND SHALL PROVIDE DRAWINGS, SAMPLES, SPECIFICATIONS, MANUFACTURER'S LITERATURE, PERFORMANCE DATA, ETC. IN ORDER THAT THE ARCHITECT CAN EVALUATE THE PROPOSED SUBSTITUTION. IF THE SUBSTITUTION AFFECTS A CORRELATED FUNCTION, ADJACENT CONSTRUCTION, OR THE WORK OF ANY OTHER CONTRACTOR OR TRADE, THE NECESSARY CHANGES AND MODIFICATIONS TO THE AFFECTED WORK SHALL BE SUBMITTED WITH THE SUBSTITUTION AND ACCOMPANIED BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. NO REQUESTS FOR SUBSTITUTES WILL BE SUBMITTED BY THE ARCHITECT DUE TO CONTRACTOR'S FAILURE TO ORDER MATERIALS IN A TIMELY MANNER.
- THE STANDARD SPECIFICATIONS OF THE MANUFACTURERS APPROVED FOR USE IN THE PROJECT ARE HEREBY MADE A PART OF THESE NOTES WITH THE SAME FORCE AND EFFECT AS THOUGH HEREIN WRITTEN OUT IN FULL, EXCEPT THAT WHEREVER THE DRAWINGS REQUIRE HEAVIER MEMBERS, BETTER QUALITY MATERIALS OR ARE OTHERWISE MORE STRINGENT, THESE STRINGENT REQUIREMENTS SHALL GOVERN.
- THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF HE CANNOT FOR ANY REASON COMPLY WITH ALL OF THE REQUIREMENTS OF THESE NOTES AND DRAWINGS.
- THE CONTRACTOR SHALL COORDINATE AND SUPERVISE THE WORK OF ALL SUB-CONTRACTORS. HE SHALL BE RESPONSIBLE FOR GIVING ALL TRADES SUCH INFORMATION, PLANS OR DETAILS AS MAY BE REQUIRED FOR THE PROPER INSTALLATION AND COMPLETION OF THEIR WORK.
- THE CONTRACTOR SHALL SUBMIT ALL FABRICATION SHOP DRAWINGS, SAMPLES, AND FIXTURE CUTS FOR THE ARCHITECT'S REVIEW AS REQUIRED AND/OR INDICATED ON DRAWINGS. THE ARCHITECT'S REVIEW SHALL NOT BE CONSTRUED AS AN INDICATION THAT SUBMITTAL IS CORRECT OR SUITABLE NOR THAT WORK REPRESENTED BY SUBMITTAL COMPLIES WITH THE DRAWINGS. EXCEPT AS TO MATTERS OF FINISH, COLOR, AND OTHER AESTHETIC MATTERS, ACTION NOTED ABOVE DOES NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY TO COORDINATE ALL TRADES AND TO CHECK QUANTITIES AND DIMENSIONS AGAINST CONDITIONS IN THE FIELD. CONTRACTORS AND ENGINEERS SHALL ASSUME RESPONSIBILITY FOR ALL ERRORS ON THEIR DRAWINGS.
- ALL MATERIALS REQUIRED FOR THE PERFORMANCE OF THIS CONTRACT SHALL BE NEW AND OF THE BEST QUALITY OF KINDS SPECIFIED, ALL SUBJECT TO THE APPROVAL OF THE ARCHITECT. THE USE OF OLD OR SECOND-HAND MATERIALS IS STRICTLY FORBIDDEN. THE CONTRACTOR SHALL, IF REQUIRED, FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF MATERIALS AND WORKMANSHIP. MATERIALS SHALL BE USED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS. UPON REQUEST, THE MANUFACTURER'S REPRESENTATIVE SHALL GO TO THE SITE AND INSTRUCT THE MECHANICS IN THE USE OF THE MATERIALS OR SHALL SUPERVISE THEIR USE.
- THE CONTRACTOR SHALL PROVIDE BLOCKING AT ALL LOCATIONS FOR SCHEDULED WALL CABINETS AND/OR TV WALL MOUNTING BRACKETS. REFER TO DRAWINGS FOR LOCATION.
- FOR THE EXECUTION OF THE WORK TO BE PERFORMED UNDER THIS CONTRACT AND FOR THE MANUFACTURE OR TRANSPORTATION OF ANY OF THE MATERIALS OR EQUIPMENT TO BE USED OR INSTALLED, THE CONTRACTOR SHALL EMPLOY ONLY SUCH LABOR THROUGHOUT AS WILL NOT INTERFERE WITH THE SPEEDY AND UNINTERRUPTED COMPLETION OF THE PROJECT. ALL WORK SHALL BE DONE BY MECHANICS SKILLED IN THEIR TRADE AND SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER IN ACCORDANCE WITH THE BEST TRADE PRACTICES.
- ANY MATERIALS DELIVERED OR WORK PERFORMED, CONTRARY TO THE DRAWINGS AND SPECIFICATIONS AND APPROVED SHOP DRAWINGS, SHALL BE REMOVED BY THE CONTRACTOR AT HIS OWN EXPENSE, AND THE SAME SHALL BE REPLACED WITH OTHER MATERIALS OR WORK SATISFACTORY TO THE ARCHITECT. THE CONTRACTOR SHALL ALSO ASSUME THE COST OF REPLACING THE WORK WHICH MAY BE DISTURBED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY AND ACCURATELY LAYING OUT THE WORK AND FOR THE LINES AND MEASUREMENTS HEREIN. HE SHALL ESTABLISH NECESSARY REFERENCE LINES AND PERMANENT BENCH MARKS FROM BUILDING LINES AND ELEVATIONS SHALL BE TAKEN. ELEVATION HEIGHTS OF ALL WORK INCLUDING BUT NOT LIMITED TO SOFFITS, CEILINGS, DOORS, HOLLOW METAL SHALL BE TRUE AND LEVEL WITHIN A MAXIMUM TOLERANCE OF 1/8" OVERALL THE ENTIRE PROJECT.
- FOR ALL PARTITIONS REFER TO PARTITION SYMBOLS ON DRAWINGS AND THE PARTITION TYPE DETAILS WHICH SHOWS PARTITION CORES AND FINISHES. REFER TO LIFE SAFETY DRAWINGS FOR LOCATION OF RATED PARTITIONS, IF APPLICABLE.
- THE CONTRACTOR SHALL KEEP THE ARCHITECT INFORMED OF THE PROGRESS OF HIS WORK. NO WORK SHALL BE CLOSED OR COVERED UNTIL IT HAS BEEN DULY INSPECTED AND APPROVED. SHOULD UNINSPECTED WORK BE COVERED, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, UNCOVER ALL SUCH WORK SO THAT IT CAN BE PROPERLY INSPECTED AND AFTER SUCH INSPECTION, HE SHALL PROPERLY REPAIR AND REPLACE ALL WORK INTERFERED WITH.
- THE WORK IS SUBJECT TO INSPECTION BY THE ARCHITECT AND ACCEPTANCE BY THE OWNER.
- PROTECT OWNER'S PROPERTY, EQUIPMENT AND EMPLOYEES FROM INJURY AND DAMAGE.
- ALL HVAC, PLUMBING, SPRINKLER AND ELECTRICAL LINES ARE TO BE COORDINATED SO THAT NO CONFLICTS OCCUR. ANY CONFLICTS WHICH RESULT IN A RELOCATION OF A FINISHED SURFACE MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.
- CONTRACTOR SHALL CONSULT WITH ELECTRICAL AND PLUMBING SUB-CONTRACTORS FOR LOCATIONS OF CONDUIT AND PIPES IN FOUNDATION, SLABS ON GRADE, AND EXTERIOR WALLS AND SHALL INSTALL WATERTIGHT PIPE SLEEVES AT THEIR RESPECTIVE LOCATIONS.

GENERAL NOTES

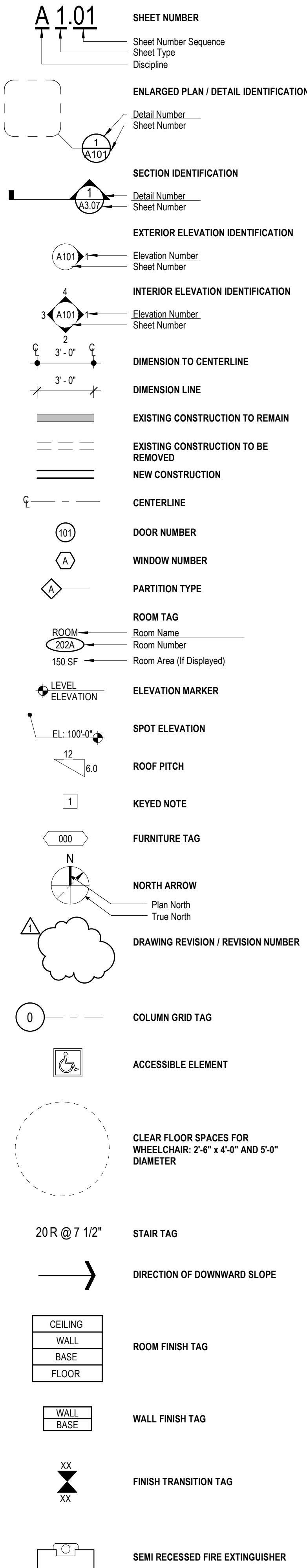
- A SET OF THE INSTRUCTION MANUALS AND INSTALLATION INSTRUCTIONS OF ALL EQUIPMENT AND ACCESSORIES INSTALLED IN THIS JOB SHALL BE KEPT BY THE CONTRACTOR AND TURNED OVER TO THE OWNER AT THE COMPLETION OF THE JOB. IN ADDITION, AS-BUILT DRAWINGS OF THE COMPLETED WORK ARE TO BE COMPLETED, SIGNED AND SEALED, AND DELIVERED TO THE ARCHITECT AND OWNER AT THE COMPLETION OF THE JOB.
- PROVIDE ADEQUATE BACKUP AND BLOCKING FOR ALL WALL OR CEILING MOUNTED EQUIPMENT. ARCHITECTURAL WOODWORK, HANDRAILS, LIGHTING OR OTHER MISCELLANEOUS ITEMS AS SHOWN ON DRAWINGS TO ASSURE A SECURE INSTALLATION.
- SUBMITTALS THAT REQUIRE THE REVIEW OF THE ARCHITECT/ENGINEERING TEAM SHALL BE DELIVERED IN DIGITAL FORMAT, AND IF REQUIRED BY THE ARCHITECTURE/ENGINEERING TEAM, BE SUBMITTED AS HARDCOPY AS WELL. A SEVEN (7) BUSINESS DAY PERIOD OF TIME WILL BE ALLOTTED FOR ARCHITECT/ENGINEER'S REVIEW OF THE CONSTRUCTION SUBMITTAL, AND IT CANNOT BE GUARANTEED THAT AN EXPEDITED SCHEDULE CAN BE ACCOMMODATED.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING OR OBTAINING SHOP DRAWINGS FROM THE SUBCONTRACTORS AND MANUFACTURERS. THE APPROVAL AND SUBMITTAL OF SHOP DRAWINGS TO THE ARCHITECT REPRESENTS THAT THE CONTRACTOR HAS REVIEWED AND VERIFIED THE USE OF APPROPRIATE MATERIALS, PROPER FIELD MEASUREMENTS, FIELD CONSTRUCTION REQUIREMENTS, AND HAVE COORDINATED THE INFORMATION CONTAINED IN THE SUBMITTAL. DEVIATIONS FROM THE CONTRACT DOCUMENTS MUST BE CALLED TO THE ATTENTION OF THE ARCHITECT IN WRITING AND REQUIRES SPECIFIC APPROVAL OF THE ARCHITECT. ARCHITECTURAL APPROVAL OF THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF ERRORS OR OMISSIONS, PER AIA DOCUMENT A201-2007 STANDARDS.
- ALL QUESTIONS TO THE ARCHITECT/ENGINEERING TEAM SHALL BE SUBMITTED AS REQUESTS FOR INFORMATION (RFIs), WITH THE CONSTRUCTION MANAGER'S LETTERHEAD. THE CONSTRUCTION MANAGER WILL PROVIDE A NUMBER TO THE RFI. A ONE (1) WEEK PERIOD OF TIME WILL BE ALLOTTED FOR ARCHITECTURAL/ENGINEERING REVIEW OF THE RFI. ALL CORRESPONDENCE REGARDING RFIs WILL BE FROM THE CONSTRUCTION MANAGER TO THE ARCHITECT. THE ARCHITECT WILL DISSEMINATE THE INFORMATION TO THE APPROPRIATE ENGINEER'S IF REQUIRED. NO SUB-CONTRACTOR IS TO CONTACT THE ARCHITECT OR ENGINEER WITH A QUESTION DIRECTLY; ALL QUESTIONS TO THE ARCHITECTURE/ENGINEERING TEAM SHALL BE SENT THROUGH THE CONSTRUCTION MANAGER.
- A. THE PREMISES AND THE JOB SITE SHALL BE MAINTAINED IN A REASONABLY NEAT AND ORDERLY CONDITION AND KEPT FREE FROM ACCUMULATIONS OF WASTE MATERIALS AND RUBBISH DURING THE ENTIRE CONSTRUCTION PERIOD. REMOVE CRATES, CARTONS AND OTHER FLAMMABLE WASTE MATERIALS OR TRASH FROM THE WORK AREAS AT THE END OF EACH WORKING DAY.
B. ELECTRICAL CLOSETS, PIPE AND DUCT SHAFTS, CHASES, FURRED SPACES AND SIMILAR SPACES WHICH ARE GENERALLY UNFINISHED SHALL BE CLEANED AND LEFT FREE FROM RUBBISH, LOOSE PLASTER, MORTAR DRIPPINGS, EXTRANEOUS CONSTRUCTION MATERIALS, DIRT AND DUST.
C. CARE SHALL BE TAKEN BY WORKMEN NOT TO MARK, SOIL, OR OTHERWISE DEFACE FINISHED SURFACES. IN THE EVENT THAT FINISHED SURFACES BECOME DEFACED, THE CONTRACTOR IS RESPONSIBLE FOR CLEANING AND RESTORING SUCH SURFACES TO THEIR ORIGINAL CONDITION. IF THIS IS NOT POSSIBLE, DAMAGED SURFACES SHALL BE REPLACED.
D. CLEAN UP IMMEDIATELY UPON COMPLETION OF EACH TRADE'S WORK.
E. CLEAN AREAS OF THE BUILDING IN WHICH PAINTING AND FINISHING WORK IS TO BE PERFORMED JUST PRIOR TO THE START OF THIS WORK, AND MAINTAIN THESE AREAS IN SATISFACTORY CONDITION FOR PAINTING AND FINISHING.
F. THIS CLEANING INCLUDES THE REMOVAL OF TRASH AND RUBBISH FROM THESE AREAS, BROOM CLEANING OF FLOORS, THE REMOVAL OF ANY PLASTER, MORTAR, DUST AND OTHER EXTRANEOUS MATERIALS FROM FINISH SURFACES, INCLUDING BUT NOT LIMITED TO: MISCELLANEOUS METAL, WOODWORK, PLASTER, GYPSUM DRYWALL, MASONRY, CONCRETE, MECHANICAL AND ELECTRICAL EQUIPMENT, PIPING, DUCTWORK, CONDUIT, AND SURFACES VISIBLE AFTER GRILLES, REGISTERS AND OTHER SUCH FIXTURES OR DEVICES ARE IN PLACE.
G. IN ADDITION TO THE CLEANING SPECIFIED ABOVE AND THE MORE SPECIFIC CLEANING WHICH MAY BE REQUIRED IN VARIOUS SECTIONS OF THE SPECIFICATIONS, THE PREMISES SHALL BE PREPARED FOR OCCUPANCY BY:
(i) A THOROUGH CLEANING THROUGHOUT INCLUDING WASHING OR CLEANING BY OTHER APPROVED METHODS OF ALL FLOORS AND SURFACES ON WHICH DIRT OR DUST HAS COLLECTED AND BY WASHING GLASS, REMOVING ALL PAINT, PUTTY AND STAINS THEREFROM.
(ii) PROVIDING AND MAINTAINING PROTECTION OF EXISTING AND INSTALLED PORTIONS OF THE WORK.
(iii) LEAVING ALL FIXTURES AND EQUIPMENT IN AN UNDAMAGED, BRIGHT, CLEAN, POLISHED CONDITION.
(iv) CLEAN AND POLISH ALL HARDWARE, AND OTHER METAL WORK.
(v) FOR FINAL CLEANING, CONTRACTOR SHALL ENGAGE THE SERVICES OF A PROFESSIONAL CLEANING COMPANY TO ACCOMPLISH THE FOLLOWING: REMOVAL OF PUTTY STAINS AND PAINT SPOTS, WASHING AND POLISHING OF GLASS, CLEANING AND POLISHING OF ALL EXPOSED FINISH HARDWARE, AND A THOROUGH CLEANING OF ALL SURFACES; RESILIENT TILE / SHEET VINYL FLOORING POLISHED & BUFFED



9 GRAPHICS LEGEND

(E)	EXISTING	J	JANITOR
(N)	NEW	JAN	JANITOR
(R)	RELOCATED	JC	JANITOR'S CLOSET
A:		L	LABORATORY
AC	AIR CONDITIONING	LAM	LAMINATE
ACC	ACCESSIBLE	LAV	LAVATORY
ACT	ACOUSTICAL CEILING TILE	LB	POUND
ADD	ADDITIONAL	LF	LINEAR FOOT
ADJ	ADJUSTABLE	LLH	LONG LEG HORIZONTAL
AFF	ABOVE FINISH FLOOR	LLV	LONG LEG VERTICAL
ALT	ALTERNATE	M	
ALUM	ALUMINUM	MACH	MACHINE
APPROX	APPROXIMATE	MAINT	MAINTENANCE
ARCH	ARCHITECTURAL	MATL	MATERIAL
AV	AUDIO VISUAL	MAX	MAXIMUM
B	BOARD	MBL	MARBLE
BLDG	BUILDING	MDF	MEDIUM DENSITY FIBERBOARD
BO	BOTTOM OF	MDO	MEDIUM DENSITY OVERLAY
BUR	BUILT-UP ROOFING	MECH	MECHANICAL
C		MEP	MECHANICAL, ELECTRICAL, PLUMBING
CB	CATCH BASIN	MEZZ	MEZZANINE
CG	CORNER GUARD	MFR	MANUFACTURER
CIP	CAST-IN-PLACE	MH	MANHOLE
CJ	CONTROL / CONSTRUCTION JOINT	MIN	MINIMUM
CL	CENTER LINE	MISC	MISCELLANEOUS
CLG	CEILING	MM	MILLIMETER
CLR	CLEAR	MO	MASONRY OPENING
CMU	CONCRETE MASONRY UNIT	MOUNT	MOUNTED
CO	CLEANOUT	MTG	MOUNTING
COL	COLUMN	N	NORTH
CONC	CONCRETE	N	
CONT	CONTINUOUS	NA	NOT APPLICABLE
COORD	COORDINATE	NC	NOISE CRITERIA
CORR	CORRIDOR	NIC	NOT IN CONTACT
CT	CERAMIC TILE	NOM	NOMINAL
CW	COLD WATER	NTS	NOT TO SCALE
D		O	
DEMO	DEMOLITION	OC	ON CENTER
DEPT	DEPARTMENT	OD	OUTSIDE DIAMETER/DIMENSION
DF	DRINKING FOUNTAIN	ODI	OWNER FURNISHED, CONTR INSTALLED
DIA	DIAMETER	OFOI	OWNER FURNISHED, OWNER INSTALLED
DIM	DIMENSION	OPP	OPPOSITE
DISP	DISPENSER	ORD	OVERFLOW ROOF DRAIN
DN	DOWN	OVHD	OVERHEAD
DO	DOOR OPENING	P	
DP	DIMENSION POINT	P	PAINT
DR	DOOR	PBD	PARTICLEBOARD
DS	DOWNSPOUT	PC	PRECAST CONCRETE
DW	DISHWASHER	PERF	PERFORATED
DWG	DRAWING	PERIM	PERIMETER
E		PERP	PERPENDICULAR
EA	EACH	PL	PLATE
EFS	EXTERIOR INSULATION & FINISH SYSTEM	PLAM	PLASTIC LAMINATE
EIFS	EXTERIOR FINISH SYSTEM	PLF	POUNDS PER LINEAR FOOT
EJ	EXPANSION JOINT	PR	PAIR
EL	ELEVATION	PREFAB	PREFABRICATED
ELECT	ELECTRICAL	PROJ	PROJECT
ELEV	ELEVATOR	PSF	POUNDS PER SQUARE FOOT
EMERG	EMERGENCY	PT	POINT
EQ	EQUAL	PTD	PAINTED
EQUIP	EQUIPMENT	Q	
EW	ELECTRICAL WATER COOLER	QT	QUARRY TILE
EXH	EXHAUST	QTY	QUANTITY
EXIST	EXISTING	R	RADIUS OR RISER
EXT	EXTERIOR	R	F.E.C.
F		RB	RESILIENT BASE
FD	FLOOR DRAIN	RCP	REFLECTED CEILING PLAN
FE	FIRE EXTINGUISHER	RD	ROOF DRAIN
FEC	FIRE EXTINGUISHER CABINET	REF	REFERENCE
FF&E	FURNITURE, FINISHES, & EQUIPMENT	REINF	REINFORCED / REINFORCING
FFEL	FINISH FLOOR ELEVATION	REQ'D	REQUIRED
FHC	FIRE HOSE CABINET	REV	REVISION/REVISED
FL	FLOOR	RM	ROOM
FND	FOUNDATION	RO	ROUGH OPENING
FO	FACE OF	RWL	RAIN WATER LEADER
FP	FIRE PROTECTION	S	
FPG	FIREPROOFING	SC	SOLID CORE
FRTW	FIRE RETARDANT TREATED WOOD	SCHED	SCHEDULE
FT	FEET	SF	SQUARE FEET/FOOT
FURN	FURNITURE	SIM	SIMILAR
FWC	FABRIC WALLCOVERING	SP	STANDPIPE
FWP	FABRIC WRAPPED PANEL	SPEC	SPECIFICATION
G	GROUND	SQ	SQUARE
GA		SS	STAINLESS STEEL
GALV	GALVANIZED	STD	STANDARD
GC	GENERAL CONTRACTOR	STL	STEEL
GFR	GLASS FIBER REINFORCED CONCRETE	STOR	STORAGE
GFRG	GLASS FIBER REINFORCED GYPSUM	STRUCT	STRUCTURAL
GL	GLASS	T	
GYPBD	GYPSUM WALLBOARD	T&G	TONGUE AND GROOVE
H		T	TREAD
H		TC	TOP OF CURB
HB	HOSE BIB	TEL	TELEPHONE OR TELECOM
HC	HOLLOW CORE	TO	TOP OF (SEE OTHER WORD)
HCP	HANDICAPPED	TV	TELEVISION
HDWD	HARDWOOD	TW	TOP OF WALL
HDWR	HARDWARE	TYP	TYPICAL
HM	HOLLOW METAL (STEEL FRAME)	U	
HORIZ	HORIZONTAL	U.O.N.	UNLESS OTHERWISE NOTED
HR	HOUR	V	
HVAC	HEATING, VENTILATION, AIR CONDITIONING	VCT	VINYL COMPOSTION TILE
HW	HOT WATER	VERT	VERTICAL
I		VEST	VESTIBULE
ID	INSIDE DIAMETER	VF	VERIFY IN FIELD
IN	INCH	VT	VINYL TILE
INCL	INCLUDED / INCLUDING	VWC	VINYL WALL COVERING
INSUL	INSULATION	W	
INT	INTERIOR	W/O	WITHOUT
INV	INVERT	WC	WATER CLOSET
		WD	WOOD
		WP	WORK POINT
		WR	WATER RESISTANT/REPELLANT

5 ABBREVIATIONS



1 SYMBOL LEGEND

AMENTA | EMMA

ARCHITECTS

Suffield Public Schools

Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD
WEST SUFFIELD, CT 06093

CONSULTANTS

KEY PLAN

PROJECT DATA

PROJECT NUMBER	2016
CURRENT SUBMISSION DATE	6.01.20
DRAWN	AEO
CHECKED	CAB
SCALE	As indicated
FILE REFERENCE	C:\Users\AEO\Documents\2016-Suffield Spaulding School-CENTRAL-2020_AEO.rvt

HISTORY OF SUBMISSIONS

No.	Date	Description

FOR CONSTRUCTION

SHEET TITLE

GENERAL NOTES, ABBREVIATIONS, SYMBOL & GRAPHICS LEGEND, TYPICAL MOUNTING HEIGHTS

G1.00.

Suffield
Public
Schools

Ward Spaulding School
Preschool Classroom
Renovations

945 MOUNTAIN RD
WEST SUFFIELD, CT 06093

CONSULTANTS

KEY PLAN

PROJECT DATA

PROJECT NUMBER	20016
CURRENT SUBMISSION DATE	6.01.20
DRAWN	AEO
CHECKED	CAB
SCALE	As indicated
FILE REFERENCE	C:\Users\AEO\Documents\20016-Suffield Spaulding School-CENTRAL-2020_AEO.rvt

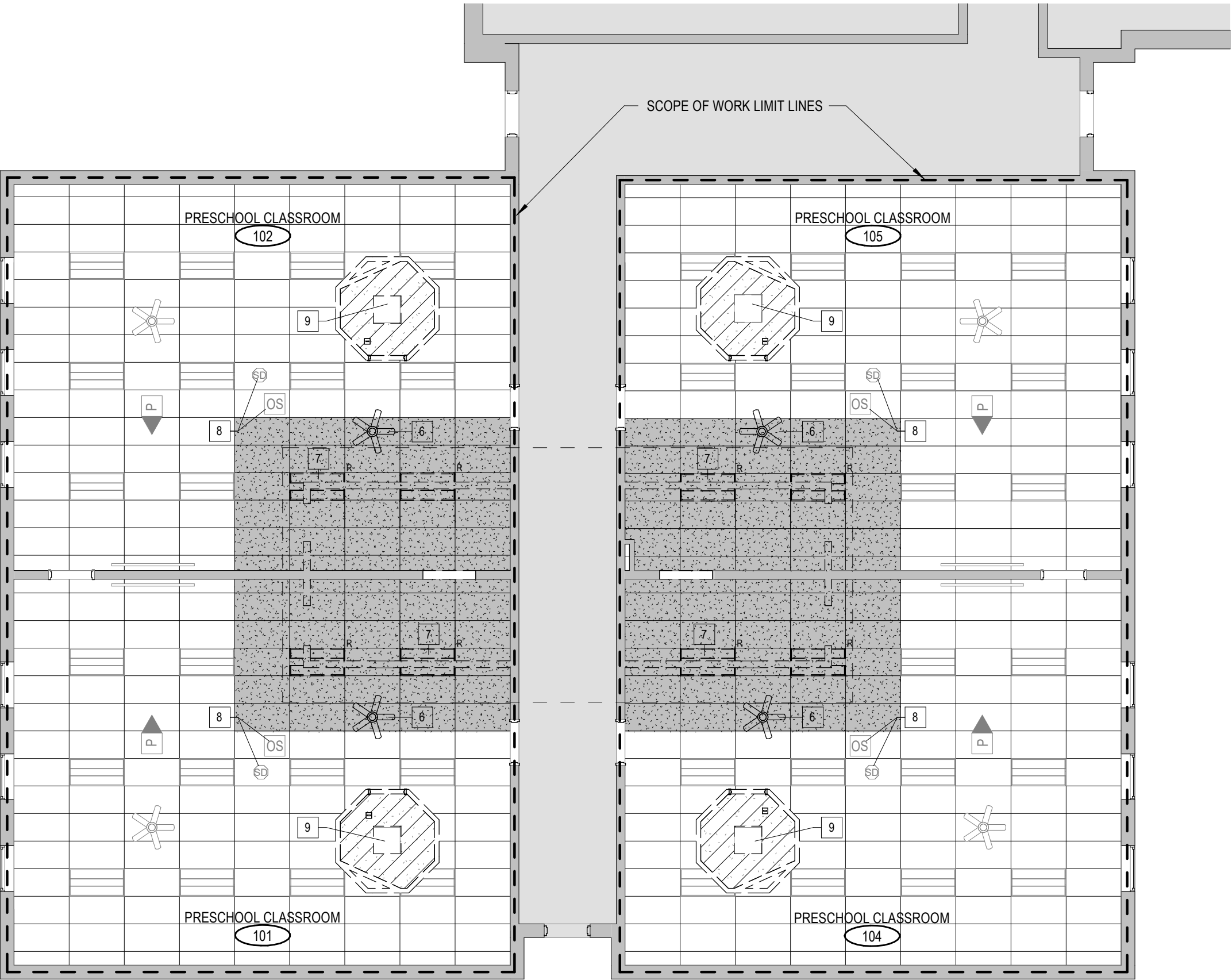
HISTORY OF SUBMISSIONS

No.	Date	Description

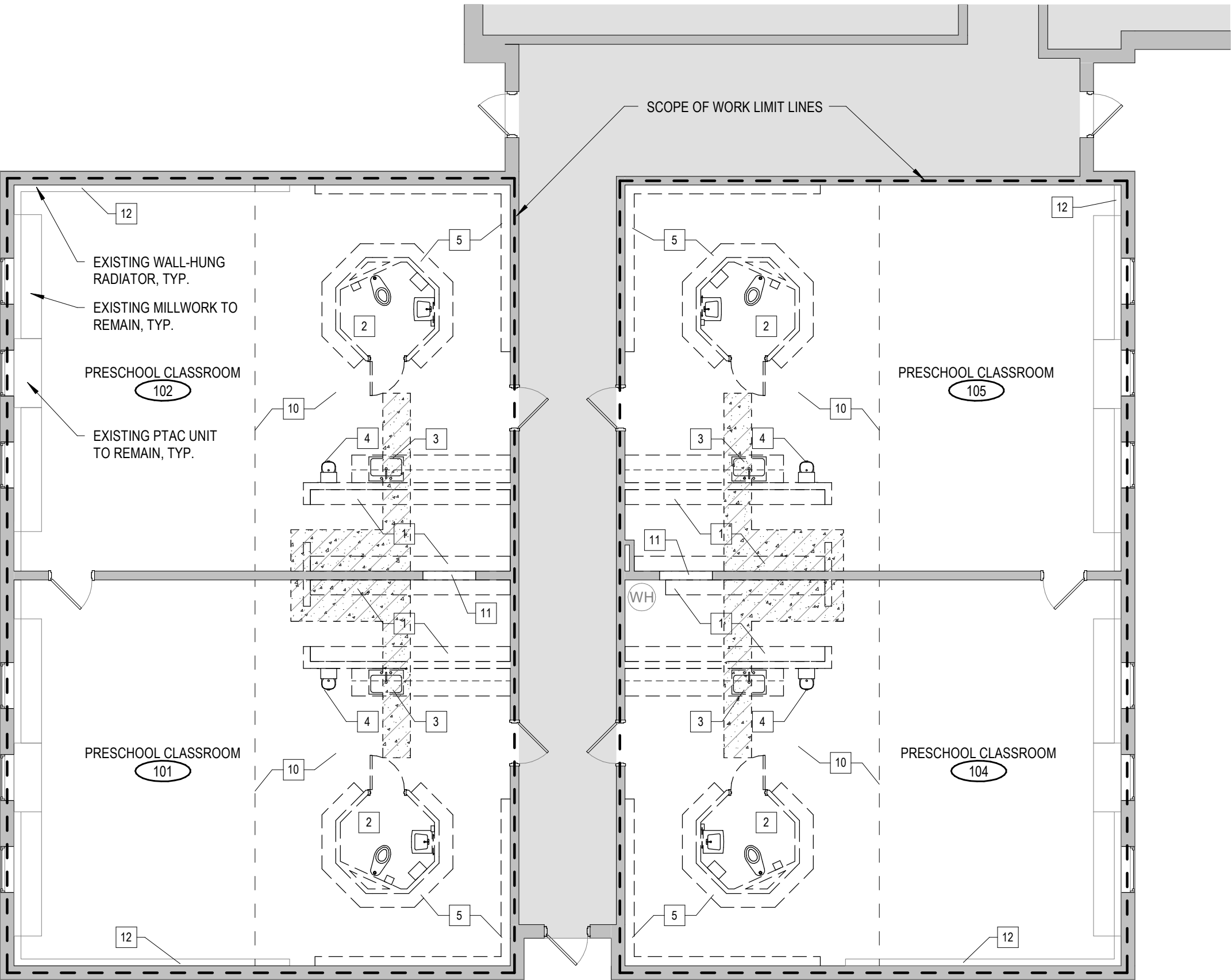
FOR CONSTRUCTION

SHEET TITLE

DEMOLITION PLANS,
DEMOLITION KEY NOTES



19 FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



17 FIRST FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

GENERAL DEMOLITION NOTES	
1	DEMOLITION PLANS SHOW APPROXIMATE LAYOUT OF EXISTING PARTITIONS, DOORS, WINDOWS, FURNITURE, ETC. AND ARE NOT INTENDED TO REPRESENT AS-BUILT CONDITIONS. ALL INFORMATION MUST BE VERIFIED ON SITE.
2	ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH ANSI A10.6, THE STATE DEMOLITION CODE, THE CONSTRUCTION SAFETY AND HEALTH REGULATIONS AND REQUIREMENTS OF THE LOCAL AUTHORITIES. A FIRE WATCH SHALL BE PROVIDED AS REQUIRED.
3	NO BUILDING ELEMENTS SHALL BE LEFT IN A TEMPORARY CONDITION OR EXPOSED FOR AN EXCESSIVE OR UNREASONABLE AMOUNT OF TIME.
4	PARTITIONS AND OTHER ITEMS TO BE REMOVED ARE SHOWN DASHED. WHERE WALLS ARE TO BE REMOVED, SERVICES IN WALLS SHALL ALSO BE REMOVED OR RELOCATED. COORDINATE WITH ME/PP, STRUCTURAL AND CIVIL. CONTRACTOR TO FIELD VERIFY ALL EXISTING ELECTRICAL FIXTURES & RECEPTACLES SCHEDULED TO REMAIN. REMOVE ANY DEVICES AND WIRING THAT DO NOT CORRESPOND WITH PROPOSED ELECTRICAL LAYOUT PLAN. REMOVE ALL ABANDONED ELECTRICAL WIRING FROM ABOVE CEILING & EXISTING WALLS THAT WILL REMAIN; REMOVE WIRING BACK TO PANEL OR NEXT LOGICAL JUNCTION BOX LOCATION.
5	PROVIDE NECESSARY BARRIERS AS REQUIRED TO SECURE SCOPE OF WORK AREA AT THE END OF EACH DAY.
6	ERECT AND MAINTAIN DUST PROOF PARTITIONS AS REQUIRED TO PREVENT SPREAD OF DUST, FUMES, AND SMOKE, ETC. TO OTHER PARTS OF THE BUILDING. ON COMPLETION, REMOVE PARTITIONS AND REPAIR DAMAGED SURFACES TO MATCH ADJACENT SURFACES.
7	IF DEMOLITION IS PERFORMED IN EXCESS OF THAT REQUIRED, RESTORE AFFECTED AREAS AT NO COST TO THE OWNER.
8	PROVIDE PROTECTION OF ADJACENT AREAS AND BUILDING COMPONENTS NOT TO BE DISTURBED, INCLUDING PATHS OF TRAVEL FROM SITE ENTRANCE TO SPECIFIC SCOPE OF WORK AREAS.
9	PROVIDE SUITABLE COVERED CONTAINERS TO RECEIVE DEBRIS. USE OF WATER SHALL BE LIMITED TO A LIGHT SPRAY TO PREVENT THE SPREAD OF DUST. NO BURNING OF MATERIALS SHALL BE PERMITTED.
10	PROVIDE AND MAINTAIN FIRE PROTECTION THROUGHOUT DEMOLITION AND CONSTRUCTION.
11	ANY ITEM NOT SPECIFICALLY IDENTIFIED, BUT REQUIRED TO BE REMOVED OR REPAIRED TO PREPARE THE BUILDING FOR NEW WORK IS THE RESPONSIBILITY OF THE CONTRACTOR.
12	SCHEDULE ALL SHUTDOWNS OF UTILITIES IN OCCUPIED PORTIONS OF THE BUILDING WITH THE OWNER (AND LOCAL FIRE DEPARTMENT IF NECESSARY) PRIOR TO IMPLEMENTING.
13	SEE ME/PP FOR ASSOCIATED DEMOLITION. CONTRACTOR SHALL COORDINATE DEMOLITION DRAWINGS AND NOTES WITH ALL DISCIPLINES.
14	REMOVE ALL EXISTING FINISH FLOORING DOWN TO EXISTING STRUCTURAL SLAB / FLOOR SUBSTRATE. REPAIR STRUCTURAL FLOOR / FLOORING SUBSTRATE AS REQUIRED TO PREPARE FOR SCHEDULED FLOORING SYSTEMS PER MANUFACTURER SPECIFICATIONS & REQUIREMENTS.
15	ANY ELECTRICAL, PHONE, THERMOSTAT, OR OTHER DEVICES & WIRING LOCATED WITHIN SCOPE OF WORK AREA SCHEDULED TO BE DEMOLISHED SHOULD BE RELOCATED OUT OF REACH FOR FURTHER DEMOLITION BY THEIR RESPECTIVE TRADES.
16	ALL PLUMBING NO LONGER IN USE SHALL BE REMOVED IN ITS ENTIRETY.
17	COORDINATE ALL REQUIRED CORE DRILLING & TRENCHING WITH POWER PLANS.
18	REMOVE EXISTING LIGHT FIXTURES, DIFFUSERS, ETC. AS REQUIRED DUE TO NEW LAYOUT. SAVE CEILING ITEMS FOR REUSE WHERE INDICATED. REFER TO REFLECTED CEILING PLAN FOR SCOPE OF WORK REGARDING NEW CEILING AND EXISTING CEILING TO REMAIN. SPRINKLER PIPING AND DUCTWORK SHALL BE MODIFIED AS REQUIRED TO ACCOMMODATE NEW LAYOUT. REMOVE AND REPLACE EXISTING CEILING PANELS AND SYSTEM AS REQUIRED FOR SCOPE OF WORK.
19	EXISTING BASEBOARD HEATING SYSTEM TO REMAIN. REFER TO MECHANICAL DRAWINGS FOR FURTHER INFORMATION.
20	REMOVE EXISTING PARTITIONS AS REQUIRED FOR SCHEDULED DOORS TO BE INSTALLED UNDER THE NEW SCOPE OF WORK; REFER TO CONSTRUCTION PLAN.

9 GENERAL DEMOLITION NOTES

AEA KEYNOTES - DEMOLITION PLANS	
1	REMOVE AND SALVAGE FREESTANDING SHELVING FOR REUSE.
2	REMOVE PLUMBING FIXTURES AND ACCESSORIES IN THEIR ENTIRETY. CAP PIPING FOR RELOCATION TO NEW LAYOUT.
3	REMOVE MILLWORK, SHELVING AND SINK IN ITS ENTIRETY. CAP PIPING FOR RELOCATION TO NEW LAYOUT.
4	REMOVE WATER FOUNTAIN AND PAPER TOWEL DISPENSER IN ITS ENTIRETY
5	REMOVE CUBBIES AND BENCH IN ITS ENTIRETY
6	REMOVE AND SALVAGE CEILING FAN FOR REUSE.
7	REMOVE AND SALVAGE LIGHT FIXTURE FOR REUSE IN NEW LOCATION.
8	REMOVE AND SALVAGE DEVICES FOR REUSE
9	REMOVE EXHAUST FAN. DUCTWORK TO REMAIN FOR NEW EXHAUST.
10	REMOVE FLOORING TO THE EXTENT INDICATED IN PLAN.
11	SAWTOOTH CUT EXISTING CMU WALL TO CREATE NEW CASED OPENING 3'-6" WIDE X 7'-4" HIGH. REMOVE (2) COURSES OF CMU ABOVE NEW OPENING FOR ADDITION OF LINTELS. PROVIDE TEMPORARY SHORING, AS REQUIRED, TO FACILITATE INSTALLATION OF STEEL LINTELS.
12	PREP WALL-HUNG RADIATOR COVERS TO RECEIVE NEW PAINT.

DEMOLITION KEYNOTES

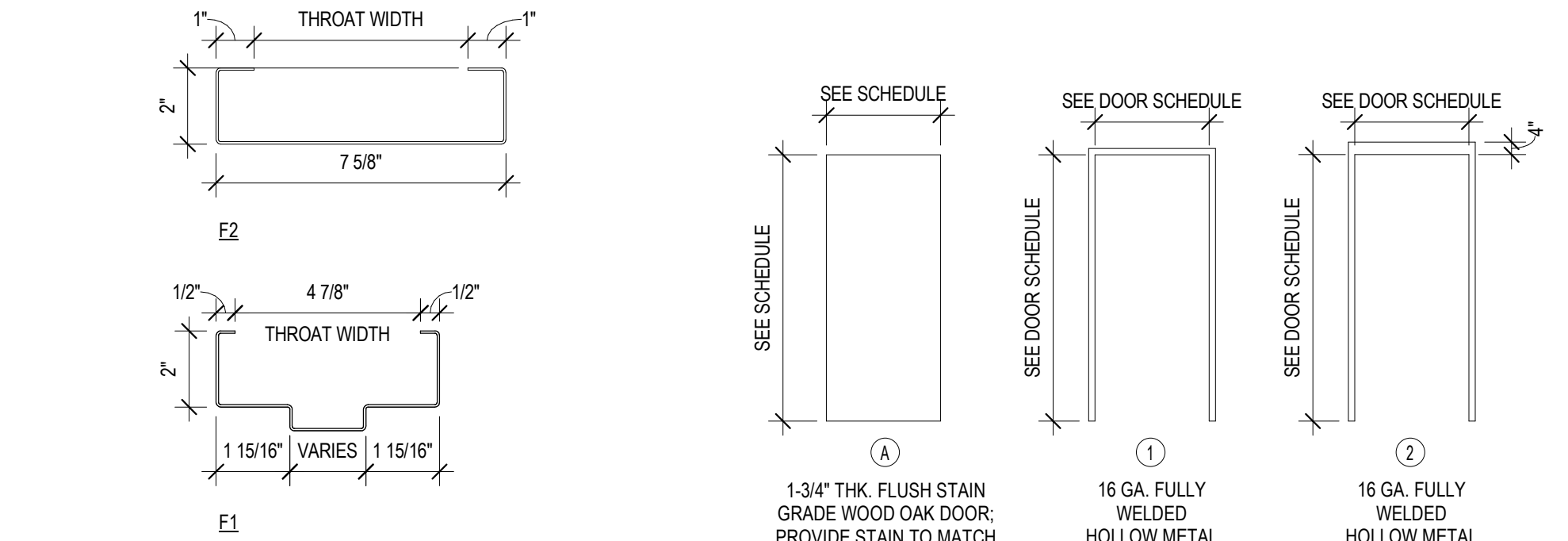
	EXTENT OF EXISTING CONCRETE SLAB TO REMOVE AS REQUIRED TO FACILITATE NEW PLUMBING WORK. RE PLUMBING.
	EXISTING CONSTRUCTION TO REMAIN
	EXISTING CONSTRUCTION TO BE REMOVED

DEMOLITION PLAN LEGEND

	EXISTING CONSTRUCTION TO REMAIN
	EXISTING CONSTRUCTION TO BE REMOVED
	2'-0" X 4'-0" RECESSED INDIRECT FLUORESCENT FIXTURE; IF INDICATED WITH TYPE 'R', FIXTURE IS TO BE RELOCATED; SEE REFLECTED CEILING PLAN
	FINISHED GWB CEILING TO BE REMOVED
	EXTENT OF ACOUSTICAL CEILING SYSTEM TO BE REMOVED AND REWORKED TO ACCOMMODATE NEW PARTITIONS TO DECK
	2X4 ACOUSTICAL CEILING SYSTEM
	OCCUPANCY SENSOR
	CEILING MOUNTED PROJECTOR
	PROJECTOR SCREEN MANUAL

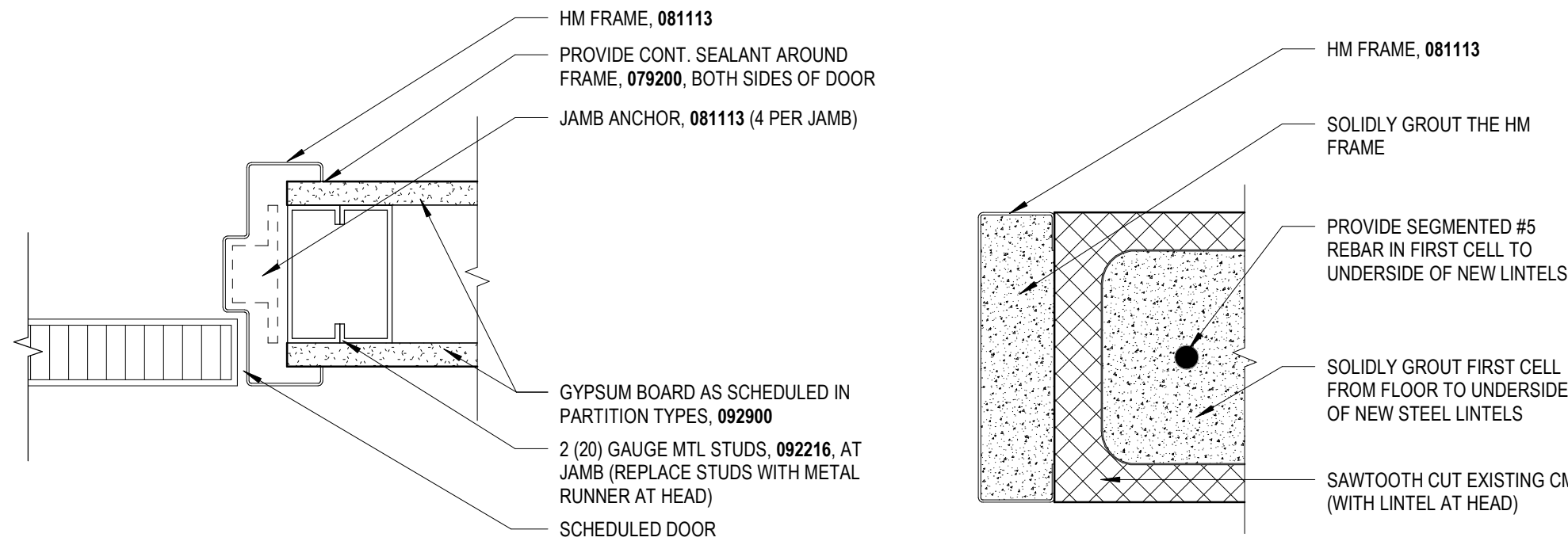
DEMOLITION CEILING PLAN LEGEND

AEA DOOR AND FRAME SCHEDULE											
DOOR #	DOOR				FRAME		HEAD DETAIL	JAMB DETAIL	SILL DETAIL	HARDWARE	REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	TYPE	MATERIAL					
101A	3'-0"	7'-0"	A	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	11 / A1.00	3	
101B	3'-0"	7'-0"	A	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	N/A	4	
102A	3'-0"	7'-0"	A	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	11 / A1.00	3	
102B	3'-0"	7'-0"	A	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	N/A	4	
104A	3'-0"	7'-0"	A	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	11 / A1.00	3	
104B	3'-0"	7'-0"	A	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	N/A	4	
105A	3'-0"	7'-0"	A	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	11 / A1.00	3	
105B	3'-0"	7'-0"	A	WD / STAIN	F1	HM	19 / A1.00	19 / A1.00	N/A	4	
B12	3'-6"	7'-0"	-	-	F2	HM	15 / A1.00	15 / A1.00	N/A	N/A	
B45	3'-6"	7'-0"	-	-	F2	HM	15 / A1.00	15 / A1.00	N/A	N/A	



20 FRAME DETAILS

SCALE: 3" = 1'-0"

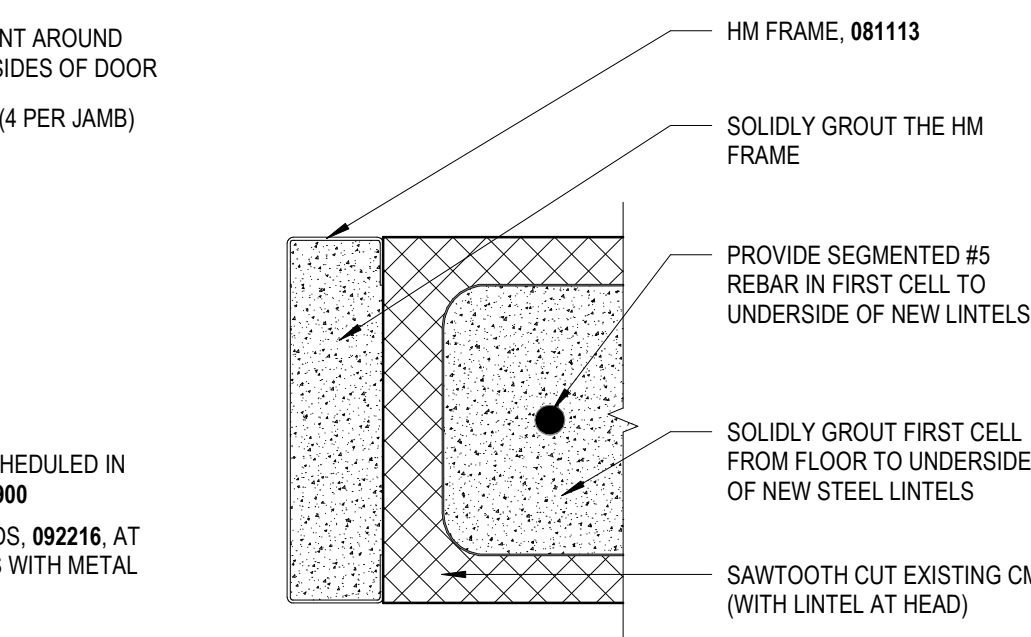


19 HM JAMB DETAIL (HEAD SIM.)

SCALE: 3" = 1'-0"

DOOR AND FRAME TYPES LEGEND

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



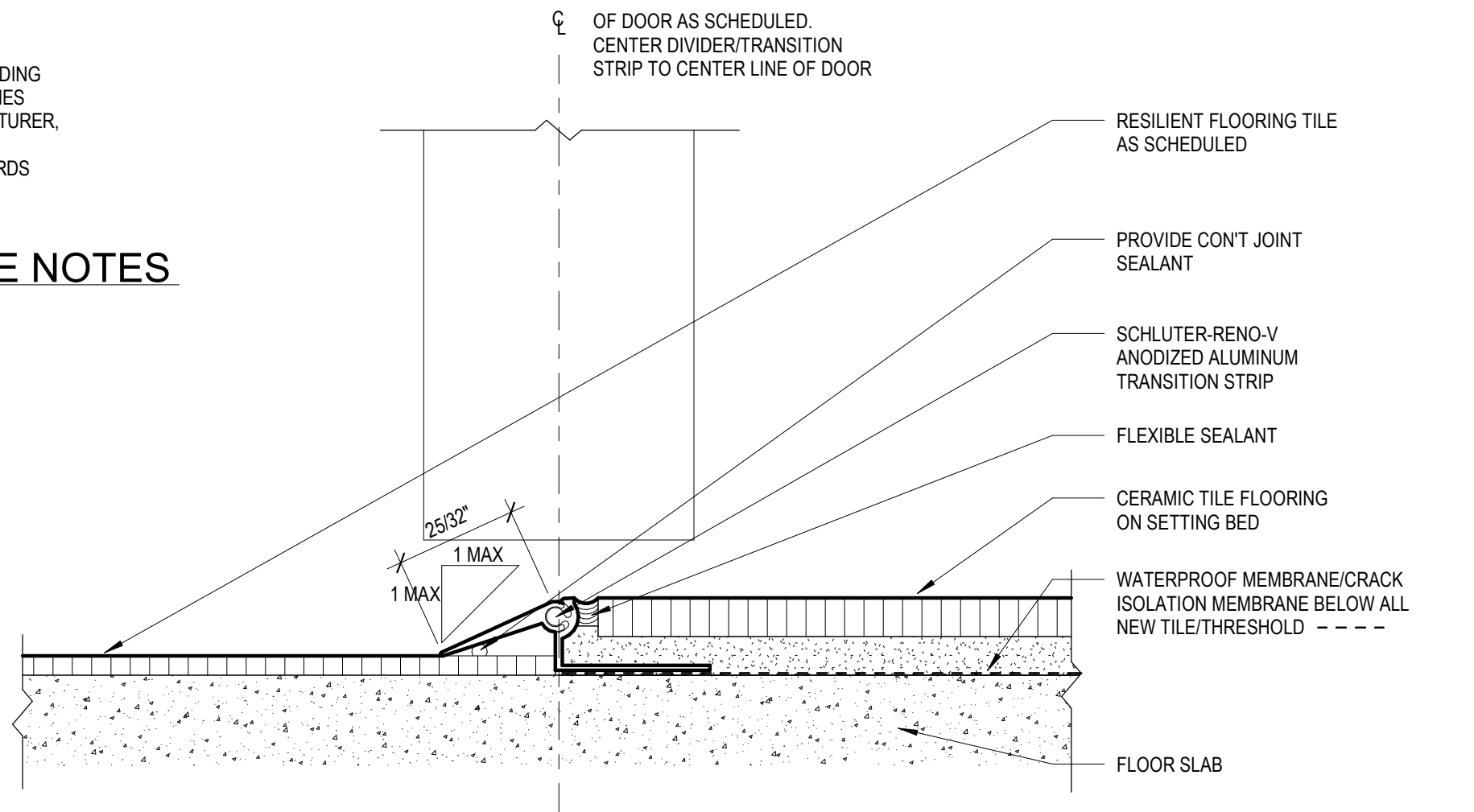
15 CASED OPENING JAMB DETAIL (HEAD SIM.)

SCALE: 3" = 1'-0"

HARDWARE SCHEDULE				
HARDWARE SET	MANUFACTURER	SPECIFICATION	FINISH	NOTE
HARDWARE SET 3 (PRIVACY SET)				
1 PRIVACY SET	CORBIN RUSSWIN	CL3320 X AZD	626	
4 HINGES	MCKINNEY	TB2314 X 4 1/2 X 4 1/2	630	DOORS 7'-0" AND BELOW ONLY REQUIRE 3 HINGES
1 FLOOR STOP	ROCKWOOD	441	626	
1 CLOSER	CORBIN RUSSWIN	DC5000 SERIES X MOUNT ON NON-PUBLIC SIDE	689	
1 COAT HOOK	TRIMCO	7010	626	MOUNT AT 5'-8" A.F.F
3 SILENCERS	ROCKWOOD	608	GRAY	FOR HOLLOW METAL FRAME
HARDWARE SET 4 (STOREROOM SET)				
1 STOREROOM SET	CORBIN RUSSWIN	CL3367 X AZD	626	
4 HINGES	MCKINNEY	TB2314 X 4 1/2 X 4 1/2	630	DOORS 7'-0" AND BELOW ONLY REQUIRE 3 HINGES
1 CLOSER	CORBIN RUSSWIN	DC5000 SERIES X MOUNT ON NON-PUBLIC SIDE	689	
1 FLOOR STOP	ROCKWOOD	441	626	
3 SILENCERS	ROCKWOOD	608	GRAY	FOR HOLLOW METAL FRAME

- HARDWARE NOTES:
ALL HARDWARE MUST CONFORM TO BUILDING STANDARD MANUFACTURERS AND FINISHES
PROVIDE BUILDING STANDARD MANUFACTURER, KEYED TO MASTER
COORDINATE WITH OWNER FOR STANDARDS

12 DOOR HARDWARE NOTES



11 VCT TO CERAMIC TILE TRANSITION

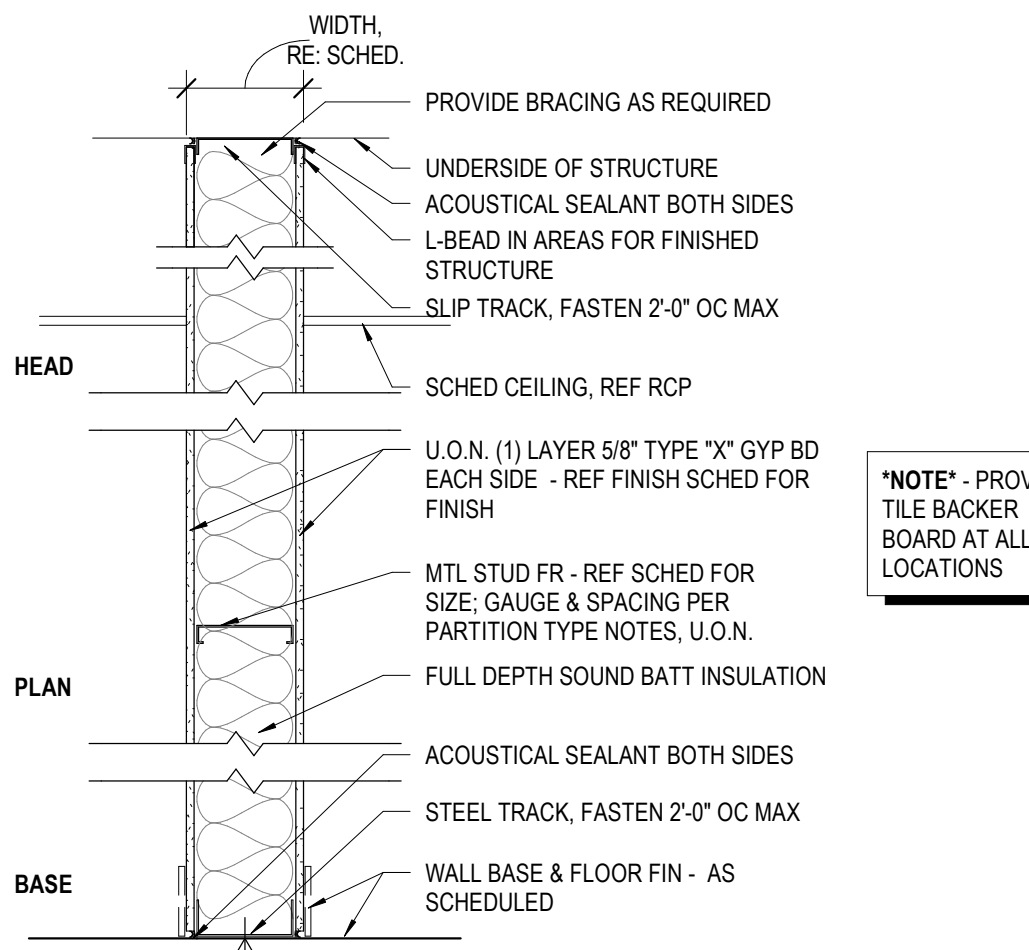
SCALE: 12" = 1'-0"

PAINT		BASE		LAMINATE		PORCELAIN TILE FLOORING	
P-1	GENERAL WALL PAINT BENJAMIN MOORE COLOR: SELECTED BY ARCHITECT FINISH: MATTE		PROVIDE COVE BASE @ RESILIENT FLOORING	PL-1	MANUFACTURER: WILSONART COLOR: FUSION MAPLE 7909-60	PT-1	MANUFACTURER: FLORIDA TILE STYLE: TIME2.0 PORCELAIN TILE 12X24 PATTERN: STACK BOND COLOR: SELECTED BY ARCHITECT GROUT: SELECTED BY ARCHITECT
P-1A	SEMI GLOSS FOR DOOR FRAMES BENJAMIN MOORE COLOR: SELECTED BY ARCHITECT FINISH: SEMI-GLOSS	B-1	MANUFACTURER: TARKETT STYLE: 4" RUBBER DURACO BASE, 120" CONTINUOUS ROLL COLOR: SELECTED BY ARCHITECT	PL-2	MANUFACTURER: WILSONART COLOR: SELECTED BY ARCHITECT NOTES: COUNTERTOP & BACKSPLASH		
ACOUSTICAL CEILING ASSEMBLY		RESILIENT FLOORING		WOOD MILLWORK		WALL TILE	
ACT-1	MATCH EXISTING ADJACENT	VCT-1	MANUFACTURER: TARKETT STYLE: COLOR ESSENCE VET 12X12 COLOR: SELECTED BY ARCHITECT	WD-1	SPECIES: MAPLE CUT: PLAIN SLICED FINISH: NATURAL / CLEAR	WT-1	MANUFACTURER: FLORIDA TILE STYLE: TIME2.0 PORCELAIN TILE 12X24 PATTERN: VERTICAL STACK BOND COLOR: SELECTED BY ARCHITECT GROUT: SELECTED BY ARCHITECT
		ALTERNATE 2					
		RB-1	MANUFACTURER: TARKETT STYLE: SOLID COLOR RUBBER TILE 24X24 TEXTURE: SMOOTH COLOR: SELECTED BY ARCHITECT PATTERN: TBD				

FINISH SCHEDULE

GENERAL FINISH NOTES	
1	FLOOR MUST BE CLEAR OF ALL DUST AND DEBRIS PRIOR TO FLOORING INSTALLATION TO INSURE PROPER ADHESION TO SLAB.
2	FLOORING SUBCONTRACTOR SHALL PATCH/REPAIR ANY CRACKS, DEVIATIONS, AND ROUGH SURFACES ON ENTIRE CONCRETE SLAB, PRIOR TO INSTALLATION OF FLOORING MATERIALS.
3	WHERE FLOOR FINISHES CHANGE AT A DOOR, THE LINE OF TRANSITION SHALL BE AT THE CENTERLINE OF THE DOOR.
4	FLOORING SUBCONTRACTOR TO PROPERLY FLASH PATCH FLOOR SLAB PRIOR TO INSTALLATION OF FLOORING MATERIALS.
5	CONTRACTOR SHALL INSTALL BASE ON ALL PARTITIONS, COLUMNS, CABINET BASES. COLOR AS SPECIFIED IN LEGEND, U.O.N.
6	ALL SEAMS & TOP COATED SEALERS MUST BE PROVIDED BY MANUFACTURER FOR DURABILITY.
7	ALL FINISHES SHALL BE APPLIED/INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS OR INSTRUCTIONS.
8	ALL WALLS TO RECEIVE PAINT P-1, U.O.N.
9	ALL FLOORS TO RECEIVE VINYL COMPOSITION TILE, VCT-1, U.O.N. ALIGN EXTENT OF NEW FLOORING WITH FACE OF CASEWORK TOEICK.
10	ALL BASE TO BE B-1, U.O.N.
11	FOR SPACES TO RECEIVE PORCELAIN TILE (PT-1), COORDINATING BASE SHALL BE PROVIDED.
12	ALL WET WALLS WITHIN TOILET ROOMS TO RECEIVE CERAMIC WALL TILE, CT-1, U.O.N.
13	ALL H.M. DOORS AND FRAMES SHALL BE PAINTED WITH P-1A (SEMI-GLOSS), U.O.N.
14	CONCRETE AND PATCHING AND FLASH PATCHING MATERIALS SHALL BE APPROPRIATE AND COMPATIBLE WITH INSTALLATION REQUIREMENTS OF DECORATIVE FLOOR FINISHES AND EXISTING CONCRETE SLAB.
15	PATCH CONCRETE FLOOR SURFACES TO ENSURE MAXIMUM VARIATION OF 1/8" IN 10'-0" FOR FLOORS TO BE COVERED WITH FLOORING MATERIAL. CONCRETE WORK SHALL BE IN ACCORDANCE WITH ACI 302 AND ACI 304.
16	ALKALINITY AND ADHESION TESTING: PERFORM TESTS RECOMMENDED BY MANUFACTURER. PROCEED WITH INSTALLATION ONLY AFTER SUBSTRATES PASS TESTING.
17	ALL SUBCONTRACTORS SHALL REVIEW THE EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES OR CONFLICTIONS TO THE ARCHITECT PRIOR TO INSTALLATION.
18	ALL WALL-HUNG RADIATOR UNITS TO RECEIVE PAINT, P-1, U.O.N.

9 GENERAL FINISH NOTES



TYPE	WIDTH	FRAMING	FIRE RATING	STC RATING	SOUND INSUL.	COMMENTS
B29	0' - 7' 1/4"	0' - 6" 0	40	Yes		
B31	0' - 4' 7/8"	0' - 3" 0	40	Yes		

5 TYPE B - FULL HEIGHT GWB PARTITION

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

GENERAL CONSTRUCTION NOTES	
1	ALL WORK SHALL BE INSTALLED PER ALL APPLICABLE CODES AND ALL OTHER AUTHORITIES HAVING JURISDICTION.
2	OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK.
3	REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION. REFER TO GENERAL NOTES REGARDING THE REQUEST FOR INFORMATION (RFI) PROCESS.
4	SUBMIT REQUESTS FOR SUBSTITUTIONS, REVISIONS, OR CHANGES TO ARCHITECT FOR REVIEW PRIOR TO PURCHASE, FABRICATION OR INSTALLATION. REFER TO GENERAL NOTES PAGE REGARDING SUBSTITUTIONS & REVISIONS.
5	COORDINATE WORK WITH THE OWNER/LANDLORD INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, BUILDING ACCESS, USE OF BUILDING SERVICES AND FACILITIES, AND USE OF ELEVATORS. MINIMIZE DISTURBANCE OF BUILDING FUNCTIONS AND OCCUPANTS.
6	OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.
7	COORDINATE TELECOMMUNICATIONS, DATA AND SECURITY SYSTEM INSTALLATIONS WITH VENDORS.
8	MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE WITH TENANT AND LANDLORD TO ENSURE SECURITY.
9	DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE ARCHITECT.
10	THE ARCHITECT'S RESPONSIBILITY IN GENERAL ADMINISTRATION OF CONSTRUCTION IS FOR THE PURPOSE OF DETERMINING THAT THE WORK WHEN COMPLETED WILL BE IN CONFORMANCE WITH THE CONTRACT DOCUMENTS AND ENDEAVOR TO GUARD THE OWNER AGAINST DEFECTS AND DEFICIENCIES IN THE WORK. THE ARCHITECT WILL NOT HAVE CONTROL OVER OR CHARGE OF AND WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY.
11	OVERLAPPING/CONFLICTING REQUIREMENTS. MOST STRINGENT (GENERALLY MOST COSTLY) APPLY AND WILL BE ENFORCED. REFER TO ARCHITECT/ENGINEER FOR DECISION BEFORE PROCEEDING.
12	CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING TO DETERMINE ALL EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR VERIFYING EXTENT OF ALL DEMOLITION AND NEW WORK. G.C. SHALL VERIFY CONDITION OF EXISTING WALLS TO REMAIN. G.C. SHALL VERIFY THIS WORK BEFORE PRICING PROJECT. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE ARCHITECT OF ANY DISCREPANCIES. FOLLOW GENERAL NOTES REGARDING RFIs.
13	ALL DIMENSIONS NOTED AS "HOLD" ARE CRITICAL.
14	PROVIDE FIRE TREATED WOOD BLOCKING (COMPLYING WITH ASTM E84) WITHIN NEW AND EXISTING WALLS AS REQUIRED FOR ANCHORING OF ALL BUILT-INS, SHELVING, CABINETS, AND WALL MOUNTED ACCESSORIES. VERIFY LOCATIONS WITH ARCHITECT. COORD. TELEVISION LOCATIONS WITH POWER PLAN & BLOCKING REQUIREMENTS W/ A) AUDIO/VISUAL DOCUMENTS AND CONSULTANT, OR B) CLIENT PROVIDED TELEVISION WALL MOUNTED BRACKET.
15	PROVIDE TWO (2) 20 GAUGE METAL STUDS AT JAMBS OF ALL NEW DOOR OPENINGS.
16	ALL CONCEALED BLOCKING SHALL BE FIRE TREATED, COMPLYING WITH ASTM E84.
17	PROVIDE AND INSTALL ONE (1) 4'-0" X 8'-0" FIRE RETARDANT PLYWOOD PANEL AT DATA ROOM. VERIFY EXACT LOCATION AND REQUIREMENTS WITH ELECTRICAL DRAWINGS.
18	DETAILS NOTED AS TYPICAL APPLY TO ALL SIMILAR LOCATIONS UNLESS OTHERWISE NOTED.
19	CONTRACTOR'S PRICE SHALL INCLUDE A COMPLETE CONSTRUCTION CLEANUP.
20	CONTRACTOR TO HAVE A "SHOP VAC" OR SIMILAR EQUIPMENT ON SITE TO KEEP SITE CLEAN DURING THE CONSTRUCTION PROCESS.
21	INTERIOR DIMENSIONS SHOWN IN PLAN ARE TO FINISHED FACE OF PARTITION, INCLUDING ANY APPLIED FINISHES SUCH AS CERAMIC TILE, UNLESS OTHERWISE NOTED.
22	PROVIDE CONTINUOUS TAPEABLE J-TRIM AT ALL EXPOSED EDGES OF GYPSUM WALL BOARD. PROVIDE COMPRESSIBLE BACKER ROD AND SEALANT IF GWB ABUTS ADJACENT CONSTRUCTION.
23	PATCH ALL EXISTING WALLS WHERE REQUIRED TO CREATE SMOOTH SURFACE FOR PAINT, STUCCO, PLASTER, OR CERAMIC TILE FINISH AS SCHEDULED. WHERE NEW FINISH IS NOT SCHEDULED, PATCH WALLS AND/OR TOOTH IN SALVAGED MATERIALS, AS REQUIRED TO MATCH EXISTING ADJACENT FINISH.
24	COORDINATE PARTITION CONSTRUCTION WITH FINISH PLANS.
25	AT ANY EXISTING CONSTRUCTION TO RECEIVE NEW WORK (RE: NEW DOOR, INFILL PARTITION, ETC.) G.C. TO PATCH EXISTING CONSTRUCTION AS REQUIRED TO MATCH EXISTING ADJACENT SURFACE, U.O.N.
26	ALL NEW DOORS SHALL BE LOCATED 4" OFF FINISH WALL UNLESS OTHERWISE NOTED. (4" TO INSIDE FACE OF FRAME)
27	PROVIDE FIRESTOPPING JOINT SYSTEM AT ALL PENETRATIONS THROUGH ALL FIRE-RATED WALL AND FLOOR SYSTEMS. FIRESTOPPING SHALL BE DESIGNED TO RESIST THE SPREAD OF FIRE FOR A TIME PERIOD NOT LESS THAN THE REQUIRED FIRE RESISTANT RATING OF THE ADJACENT ASSEMBLY. ALL FIRE STOPPING ASSEMBLIES SHALL BE UL ASSEMBLIES.
28	PROVIDE ACOUSTICAL SEALANT FOR PENETRATIONS THROUGH ANY NON-FIRE RATED PARTITIONS OR ASSEMBLIES.
29	ALL DIMENSIONS TO BE VERIFIED IN FIELD BY CONTRACTOR.
30	REFER TO ELECTRICAL DRAWINGS FOR QUANTITIES AND TYPES OF DEVICES. REFER TO ARCHITECTURAL DRAWING G.100 FOR TYPICAL MOUNTING HEIGHTS AND LOCATIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES.
31	ALL WIRING, CONDUIT, RACEWAYS, ETC. SHALL BE CONCEALED WITHIN WALLS. G.C. TO PROVIDE CUTTING, PATCHING, PLASTER RINGS AND PULL STRINGS AS REQUIRED TO PROVIDE SUCH CONCEALMENT. PATCH AND PAINT ENTIRE WALL AFFECTED BY NEW WORK.
32	WHERE ANY TELEPHONE, DATA & ELECTRICAL WIRING HAVE BEEN DEMOLISHED, PATCH WALL & FINISH AS SCHEDULED. WHERE ANY EXISTING JUNCTION BOXES OR CONDUIT HAVE BEEN REMOVED, PATCH WALL & FINISH AS SCHEDULED UNLESS INDICATED OTHERWISE.
33	CONTRACTOR TO INCLUDE IN HIS PRICING ALL MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION WORK PER ENGINEER'S DRAWINGS TO COORDINATE WITH ARCHITECT'S DESIGN AND PROVIDE COMPLETE SYSTEMS.
34	CONTRACTOR RESPONSIBLE FOR PROTECTING DOOR FRAMES DURING CONSTRUCTION AS REQUIRED.
35	WHERE FLOOR TRENCHING IS REQUIRED FOR SCOPE OF WORK, PATCH FLOOR TO MATCH EXISTING ADJACENT STRUCTURAL SLAB / FLOOR SUBSTRATE.
36	PREPARE EXISTING FLOOR SUBSTRATE AS REQUIRED FOR SCHEDULED FLOOR FINISH. PROVIDE FLOOR LEVELING COMPOUND AS REQUIRED TO PROVIDE LEVEL FINISH (1/4" PER 10' MAX) WITHIN ENTIRE AREA OF WORK.
37	ALL PARTITIONS SHALL BE TYPE B31, U.O.N.
38	WITHIN HATCHED AREAS, PROVIDE NEW 3,000 PSI MINIMUM CONCRETE SLAB A MINIMUM OF 6" THICK, WITH A 10 MM MINIMUM VAPOR BARRIER BY STEGO WRAP OR EQUAL. PROVIDE WELDED WIRE FABRIC IN NEW SLAB FOR REINFORCEMENT. PROVIDE EPOXY DOWELS, WITH ONE SIDE GREASED, PLACE EVERY 16" O.C. TO THE NEW SLAB INTO EXISTING SLAB. COMPACT SUBGRADE TO 95% COMPACTION. BED NEW PIPING IN SAND OR PER PIPING MANUFACTURER'S RECOMMENDATIONS.

2 GENERAL CONSTRUCTION NOTES

- REFER TO PARTITION TYPE DIAGRAMS, REFERENCED BY THE "PARTITION SYMBOL", INDICATING THE COMPONENTS AND ASSEMBLY OF EACH PARTITION.
- PROVIDE 20 GAUGE METAL STUDS AT 16" O.C., U.O.N.
- GYPSUM BOARD SHALL BE 5/8" THICK, U.O.N.
- FIRE-RESISTANCE-RATED & STC-RATED PARTITIONS & STC-RATED SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE TESTED ASSEMBLY UNLESS MORE STRINGENT REQUIREMENTS ARE DESIGNATED BY DETAIL.
- FIRESTOP SHALL BE USED AT FIRE RATED PARTITIONS. RECESSED BOXES SHALL BE SEALED AND RUNNERS SHALL BE SET IN 2 BEADS OF SEALANT OR AS REQUIRED BY MANUFACTURER. FIRESTOPPING SHALL BE PROVIDED FOR ALL FIRE RATED WALL OR SLAB PENETRATIONS IN ORDER TO MAINTAIN FIRE RATINGS AS REQUIRED.
- ALL NON-FIRE RATED PARTITIONS SHALL HAVE ALL PENETRATIONS AND INTERSECTIONS SEALED AIR TIGHT WITH ACOUSTICAL SEALANT.
- PROVIDE METAL BACKING PLATES FOR WALL-MOUNTED ACCESSORIES & CONSTRUCTION.
- TILE BACKER BOARD IS REQUIRED AT ALL TILE LOCATIONS. COORDINATE WITH FINISHES AND ELEVATIONS AS REQUIRED.
- ALL PANEL SURFACES EXPOSED TO VIEW, UNLESS OTHERWISE INDICATED, TO BE LEVEL 4 FINISH.
- PROVIDE MOISTURE RESISTANT GYPSUM BOARD AT ALL TOILET ROOMS AND KITCHEN AREAS WITH SINKS.

1 PARTITION TYPE NOTES

FOR CONSTRUCTION

SHEET TITLE

CONSTRUCTION & FINISH PLANS & NOTES, DOOR, FRAME & HARDWARE SCHEDULES & DETAILS, PARTITION TYPES

A1.00.

Ward Spaulding School Preschool Classroom Renovations

CONSULTANTS

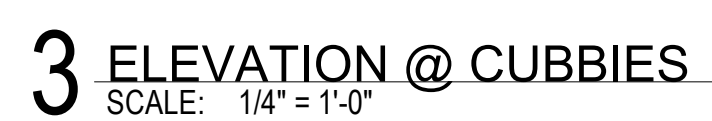
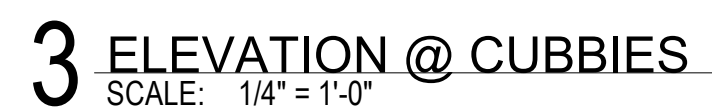
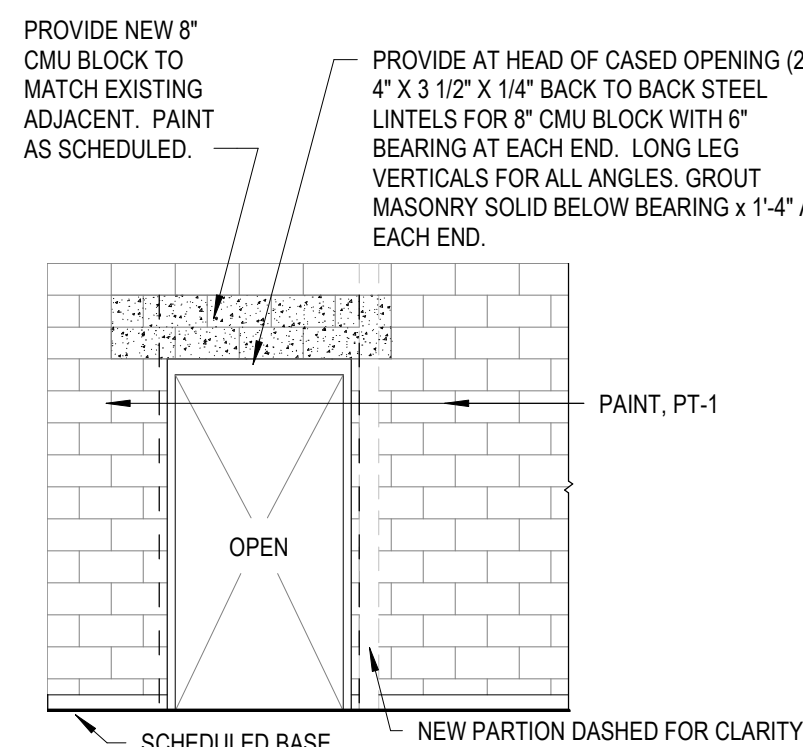
KEY PLAN

PROJECT NUMBER	20016
CURRENT SUBMISSION DATE	6.01.20
DRAWN	AEO
CHECKED	CAB
SCALE	As indicated
FILE REFERENCE	C:\Users\AEO\Documents\20016-Suffield Spaulding School-CENTRAL-2020_AEO.rvt

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INTERIOR ELEVATIONS,
MILLWORK DETAILS,
ENLARGED TOILET ROOM
PLAN AND ELEVATIONS,
TOILET ACCESSORY
DETAILS

A1.21.



GENERAL MILLWORK NOTES



Suffield
Public
Schools

Ward Spaulding School
Preschool Classroom
Renovations

945 MOUNTAIN RD
WEST SUFFIELD, CT 06093

CONSULTANTS

KEY PLAN

PROJECT DATA	
PROJECT NUMBER	20016
CURRENT SUBMISSION DATE	6.01.20
DRAWN	AEO
CHECKED	CAB
SCALE	As indicated
FILE REFERENCE	C:\Users\AEO\Documents\20016-Suffield Spaulding School-CENTRAL-2020_AEO.rvt

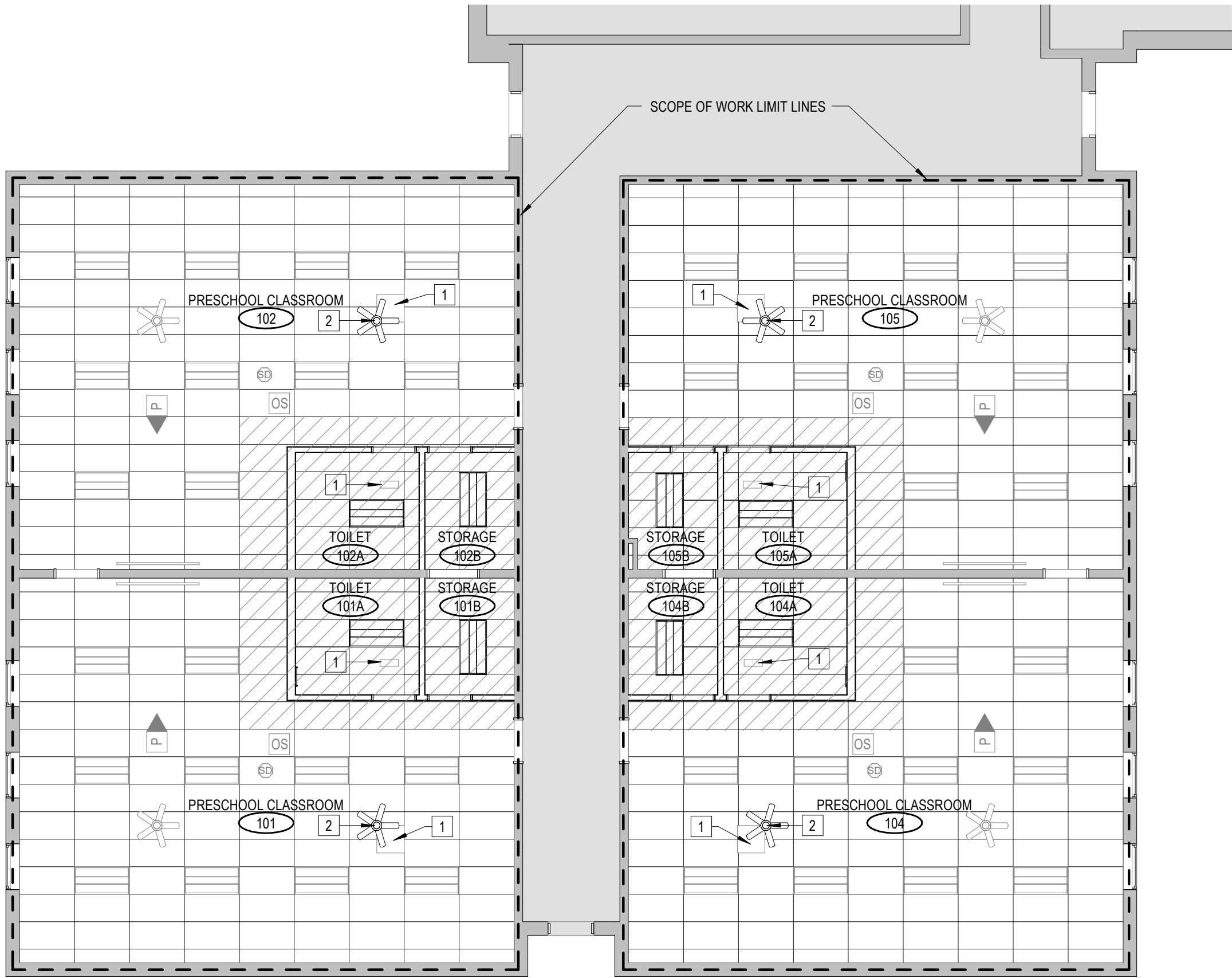
HISTORY OF SUBMISSIONS		
No.	Date	Description

FOR CONSTRUCTION

SHEET TITLE

REFLECTED CEILING PLAN
& NOTES

A4.00.



17 FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

AEA KEYNOTES - REFLECTED CEILING PLAN	
1	PATCH TO MATCH EXISTING CEILING TILE AND GRID TO MAKE CEILING COMPLETE WHERE EXHAUST FAN OR PLUMBING CHASE WAS REMOVED & RELOCATED.
2	SALVAGED CEILING FAN IN NEW LOCATION.

GENERAL REFLECTED CEILING PLAN NOTES	
1	SCHEDULED CEILING HEIGHT SHALL BE MAINTAINED. EXISTING HVAC AND PLUMBING SYSTEMS SHALL BE MODIFIED AS REQUIRED TO MEET CEILING HEIGHTS.
2	ALL NEW OR RELOCATED SPRINKLER HEADS, RECESSED CAN LIGHT FIXTURES, ETC. SHOWN TO BE RELOCATED WITHIN CENTER OF 2X2 OR 2X4 CEILING TILE UNLESS OTHERWISE NOTED.
3	ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL WIRING ABOVE THE CEILING WHICH IS ABANDONED AS PART OF THIS OR PAST WORK.
4	ALL CABLES MUST BE SUSPENDED OFF THE LAY-IN CEILING.
5	CONTRACTOR TO NOTIFY ARCHITECT IF ANY DISCREPANCIES EXIST BETWEEN ARCHITECTURAL RCP AND ELECTRICAL WIRING PLAN.
6	WHERE NEW OR EXISTING CEILING TILES HAVE A TEGULAR EDGE, KERF ALL CUT CEILING TILES OR TILES THAT PASS OVER PARTITIONS TO MATCH EXISTING EDGE DESIGN.
7	DESIGN SUSPENDED CEILING FRAMING SYSTEMS TO RESIST A LATERAL % OF THE WEIGHT OF THE CEILING ASSEMBLY AND ANY FORCE OF 20 LOADS TRIBUTARY TO THE SYSTEM. USE A MINIMUM CEILING WEIGHT OF 5 POUNDS PER SQUARE FOOT TO DETERMINE THE LATERAL FORCE.
8	WHERE CEILING LOADS DO NO EXCEED 5 POUNDS PER SQUARE FOOT AND WHERE PARTITIONS ARE NOT CONNECTED TO THE CEILING SYSTEM, THE FOLLOWING BRACING METHODS MAY BE EMPLOYED: A. PROVIDE LATERAL SUPPORT BY FOUR WIRES OF MINIMUM NO. 12 GAUGE SPLAYED IN FOUR DIRECTIONS 90 DEGREES APART, AND CONNECTED TO THE MAIN RUNNER WITHIN 2" OF THE CROSS RUNN AND TO THE STRUCTURE ABOVE AT AN ANGLE NOT EXCEEDING 45 DEGREES FROM THE PLANE OF THE CEILING. PROVIDE THESE LATERAL SUPPORT POINTS 12 FEET ON CENTER IN EACH DIRECTION, WITH THE FIRST POINT WITHIN 4' FROM EACH WALL. B. ALLOW FOR LATERAL MOVEMENT OF THE SYSTEM. ATTACH MAIN RUNNERS AND CROSS RUNNERS AT TWO ADJACENT WALLS. MAINTAIN CLEARANCE BETWEEN THE WALL AND THE RUNNERS AT THE OTHER TWO WALLS. C. PROVIDE VERTICAL SUPPORT AS REQUIRED IN BUILDING CODES. IN ADDITION, VERTICALLY SUPPORT ENDS OF RUNNERS WITH 8" OF DISCONTINUITIES SUCH AS MAY OCCUR WHERE THE CEILING IS INTERRUPTED BY A WALL. D. SUPPORT LIGHT FIXTURES AND AIR DIFFUSERS DIRECTLY TO THE STRUCTURE ABOVE.
9	RESET ALL EXISTING FIXTURES TO REMAIN WITHIN CEILING SYSTEMS SO THAT THEY ARE LEVEL, IF APPLICABLE.

9 GENERAL REFLECTED CEILING PLAN
NOTES

	EMERGENCY LIGHT FIXTURE (BATTERY BACKUP CONCEALED IN WALL)
	HORN / STROBE TIED TO BUILDING FIRE ALARM
	STROBE TIED TO BUILDING FIRE ALARM
	LED EXIT SIGN, CEILING MOUNTED
	LED EXIT SIGN, WALL MOUNTED
	DENOTES PORTION OF EXIST. CLG. TILE & GRID TO BE EXTENDED AND TO BE TIED INTO NEW DEMISING WALL. AFTER CONSTRUCTION IS FINISHED.
	2X4 ACOUSTICAL CEILING SYSTEM
	EXISTING CEILING FAN
	2'-0" X 4'-0" RECESSED LAY-IN LED FIXTURE
	OCCUPANCY SENSOR
	CEILING MOUNTED PROJECTOR
	PROJECTOR SCREEN MANUAL

REFLECTED CEILING PLAN LEGEND
SCALE: 1/4" = 1'-0"

SECTION 007000	GENERAL CONDITIONS
1.	Conform work to the Contract Documents which include the Owner/Contractor Agreement, the Drawings, and all Addenda and Modifications issued by the Architect.
2.	The General Conditions of the Contract is the American Institute of Architects (AIA), document A201, "General Conditions of the Contract for Construction," current edition, which is made part of the contract documents as if bound herein and shall be adhered to except as modified below. The Architect will provide a single copy of document upon request.
3.	G.C. shall furnish information on the Site Supervisor, Fire Guard and provide the Property Manager with all applicable licenses.
SECTION 007300	SUPPLEMENTARY CONDITIONS
1.	No substitutions of materials or products will be made without approval of the Architect. Accompany substitution request with complete technical data and list changes this substitution would cause, including time, cost, etc.
2.	All work shall be done in accordance with manufacturers written recommendations and recognized acceptable standards of good practice.
3.	Provide one (1) year warranty for material and workmanship except where more stringent requirements are asked for.
4.	In case of an inconsistency between the drawings and specifications, the better quality or greater quantity of work shall be provided in accordance with the architect's interpretation.
SECTION 061000	ROUGH CARPENTRY
PART 1 - GENERAL	
1.1 RELATED DOCUMENTS	A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
1.2 SUMMARY	A. This Section includes the following: <ol style="list-style-type: none">Wood blocking, cants, and nailers.Wood furring and grounds.Plywood backing panels.
1.3 DEFINITIONS	A. Dimension Lumber: Lumber of 2 inches nominal or greater but less than 5 inches nominal in least dimension.
1.4 SUBMITTALS	A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details. <ol style="list-style-type: none">Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate physical properties of treated materials based on testing by a qualified independent testing agency.For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.Include copies of warranties from chemical treatment manufacturers for each type of treatment. B. Research/Evaluation Reports: For the following, showing compliance with building code in effect for Project: <ol style="list-style-type: none">Preservative-treated wood.Fire-retardant-treated wood.
1.5 DELIVERY, STORAGE, AND HANDLING	A. Stack lumber flat with spacers between each bundle to provide air circulation. Provide for air circulation around stacks and under coverings.
PART 2 - PRODUCTS	
2.1 WOOD PRODUCTS, GENERAL	A. Lumber: DCC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, provide lumber that complies with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Provide lumber graded by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated. <ol style="list-style-type: none">Factory mark each piece of lumber with grade stamp of grading agency.Where nominal sizes are indicated, provide actual sizes required by DCC PS 20 for moisture content specified. Where actual sizes are indicated, they are minimum dressed sizes for dry lumber.Provide dressed lumber, S4S, unless otherwise indicated.
2.2 WOOD-PRESERVATIVE-TREATED MATERIALS	A. Preservative Treatment by Pressure Process: AWWA C2, except that lumber that is not in contact with the ground and is continuously protected from liquid water may be treated according to AWWA C31 with inorganic boron (SBX). <ol style="list-style-type: none">Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium. B. Kiln-dry lumber after treatment to a maximum moisture content of 19 percent. Do not use material that is warped or does not comply with requirements for untreated material.
2.3 FIRE-RETARDANT-TREATED MATERIALS	A. General: Comply with performance requirements in AWWA C20 (lumber) and AWWA C27 (plywood). All fire treated material shall meet or exceed ASTM E84. <ol style="list-style-type: none">Use treatment that does not promote corrosion of metal fasteners.Use Exterior type or Interior Type A, for all locations, where fire-retardant-treated material is indicated. B. Identify fire-retardant-treated wood with appropriate classification marking of testing and inspecting agency acceptable to authorities having jurisdiction.
2.4 MISCELLANEOUS LUMBER	A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following: <ol style="list-style-type: none">Blocking.Nailers.Cants.Furring.Grounds.Utility shelving.Roofing equipment bases and support curbs. B. For items of dimension lumber size, provide Standard, Stud, or No. 3 grade lumber with 19 percent maximum moisture content of any species.
2.5 PLYWOOD BACKING PANELS	A. For exposed boards, provide lumber with 15 percent maximum moisture content and any of the following species and grades: <ol style="list-style-type: none">Eastern white pine, Idaho white, lodgepole, ponderosa, or sugar pine; Premium or 2 Common (Sterling) grade; NeLMA, NLGA, WCLB, or WWP.Mixed southern pine, No. 2 grade; SPIB.Hem-fir or hem-fir (north), Construction or No. 2 Common grade; NLGA, WCLB, or WWP.Spruce-pine-fir (south) or spruce-pine-fir, Select Merchantable or No. 1 Common grade; NeLMA, NLGA, WCLB, or WWP. D. For concealed boards, provide fire-retardant treated lumber with 19 percent maximum moisture content and any of the following species and grades: <ol style="list-style-type: none">Mixed southern pine, No. 2 grade; SPIB.Spruce-pine-fir (south) or spruce-pine-fir, Construction or 2 Common grade; NeLMA, NLGA, WCLB, or WWP. E. For blocking not used for attachment of other construction Utility, Stud, or No. 3 grade lumber of any species may be used provided that it is cut and selected to eliminate defects that will interfere with its attachment and purpose.
2.6 FASTENERS	A. General: Provide fasteners of size and type indicated that comply with requirements specified in this Article for material and manufacture. <ol style="list-style-type: none">Where carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners with hot-dip zinc coating complying with ASTM A 153/A 153M. B. Power-Driven Fasteners: NES NER-272.
2.7 MISCELLANEOUS MATERIALS	A. Adhesives for Gluing Furring to Concrete or Masonry: Formulation complying with ASTM D 3498 that is approved for use indicated by adhesive manufacturer.
PART 3 - EXECUTION	
3.1 INSTALLATION, GENERAL	A. Set carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit carpentry to other construction; scribe and cope as needed for accurate fit. Locate furring, nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.

SECTION 061000	ROUGH CARPENTRY (CONT'D)
B. Framing Standard: Comply with AF&PA's "Details for Conventional Wood Frame Construction," unless otherwise indicated.	
C. Do not splice structural members between supports, unless otherwise indicated.	
D. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim. <ol style="list-style-type: none">Provide metal clips for fastening gypsum board or lath at corners and intersections where framing or blocking does not provide a surface for fastening edges of panels. Space clips not more than 16 inches o.c.	
E. Provide fire blocking in furred spaces, stud spaces, and other concealed cavities as indicated and as follows: <ol style="list-style-type: none">Fire block furred spaces of walls, at each floor level, at ceiling, and at not more than 96 inches o.c. with solid wood blocking or noncombustible materials accurately fitted to close furred spaces.Fire block concealed spaces of wood-framed walls and partitions at each floor level, at ceiling line of top story, and at at more than 96 inches o.c. Where fire blocking is not inherent in framing system used, provide closely fitted solid wood blocks of same width as framing members and 2-inch nominal thickness.	
F. Sort and select lumber so that natural characteristics will not interfere with installation or with fastening other materials. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement.	
G. Comply with AWWA M4 for applying field treatment to cut surfaces of preservative-treated lumber. <ol style="list-style-type: none">Use inorganic boron for items that are continuously protected from liquid water.Use copper naphthenate for items not continuously protected from liquid water.	
H. Securely attach carpentry work to substrate by anchoring and fastening as indicated, complying with the following: <ol style="list-style-type: none">NES NER-272 for power-driven fasteners.Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code.	
I. Use common wire nails, unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting wood; do not countersink nail heads, unless otherwise indicated.	
3.2 WOOD GROUND, SLEEPER, BLOCKING, AND NAILER INSTALLATION	A. Install where indicated and where required for sheathing or attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.
3.3 WOOD FURRING INSTALLATION	A. Install level and plumb with closure strips at edges and openings. Shim with wood as required for tolerance of finish work.
3.4 PROTECTION	A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.
SECTION 064023	INTERIOR ARCHITECTURAL WOODWORK
PART 1 - GENERAL	
1.1 SUMMARY	A. This Section includes the following: <ol style="list-style-type: none">Architectural Woodwork.Cabinetwork.
1.2 SUBMITTALS	A. Product Data: For finishing materials and processes.
1.3 QUALITY ASSURANCE	A. Installer Qualifications: Manufacturer's authorized Installer who is approved or licensed for installation of elastomeric sealants required for this Project.
1.4 FABRICATION	A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scoring, trimming, and fitting.
1.5 INSTALLATION	A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scoring, trimming, and fitting.
1.6 PROJECT CONDITIONS	A. Do not proceed with installation of joint sealants under the following conditions: <ol style="list-style-type: none">When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F.
1.7 WARRANTY	A. Special Installer's Warranty: Installer's standard form in which Installer agrees to repair or replace elastomeric joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
2.1 MATERIALS	A. Plastic Laminate: Plastic laminate color, manufacturer and finish as designated on finish plans, shall be of the following types for specific application, conforming to NEMA LD-3 and Architect approved samples. Adhesive: Contact Type, FS MM-A 130, as recommended by manufacturer to suit application.
2.2 FABRICATION	A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scoring, trimming, and fitting.
2.3 PROTECTION	A. Protect all architectural woodwork items during transit, delivery, storage and handling to prevent damage, soiling and deterioration. The Woodwork Contractor and General Contractor shall be jointly responsible.
2.4 INSTALLATION	A. Woodwork Contractor shall notify the Architect in writing of any discrepancies between Drawings and field conditions and shall not proceed with the portion of Work in question until the discrepancies are clarified.
2.5 EXECUTION	A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scoring, trimming, and fitting.
2.6 SHOP FINISHING	A. Finish architectural woodwork at fabrication shop. Defer only final touchup, cleaning, and polishing until after installation.
2.7 PROTECTION	A. Protect all architectural woodwork items during transit, delivery, storage and handling to prevent damage, soiling and deterioration. The Woodwork Contractor and General Contractor shall be jointly responsible.
2.8 INSTALLATION	A. Woodwork Contractor shall notify the Architect in writing of any discrepancies between Drawings and field conditions and shall not proceed with the portion of Work in question until the discrepancies are clarified.
2.9 EXECUTION	A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scoring, trimming, and fitting.
2.10 WARRANTY	A. Special Installer's Warranty: Installer's standard form in which Installer agrees to repair or replace elastomeric joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
2.11 MATERIALS	A. Plastic Laminate: Plastic laminate color, manufacturer and finish as designated on finish plans, shall be of the following types for specific application, conforming to NEMA LD-3 and Architect approved samples. Adhesive: Contact Type, FS MM-A 130, as recommended by manufacturer to suit application.
2.12 FABRICATION	A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scoring, trimming, and fitting.
2.13 PROTECTION	A. Protect all architectural woodwork items during transit, delivery, storage and handling to prevent damage, soiling and deterioration. The Woodwork Contractor and General Contractor shall be jointly responsible.
2.14 INSTALLATION	A. Woodwork Contractor shall notify the Architect in writing of any discrepancies between Drawings and field conditions and shall not proceed with the portion of Work in question until the discrepancies are clarified.
2.15 EXECUTION	A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scoring, trimming, and fitting.
2.16 WARRANTY	A. Special Installer's Warranty: Installer's standard form in which Installer agrees to repair or replace elastomeric joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
2.17 MATERIALS	A. Plastic Laminate: Plastic laminate color, manufacturer and finish as designated on finish plans, shall be of the following types for specific application, conforming to NEMA LD-3 and Architect approved samples. Adhesive: Contact Type, FS MM-A 130, as recommended by manufacturer to suit application.
2.18 FABRICATION	A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scoring, trimming, and fitting.
2.19 PROTECTION	A. Protect all architectural woodwork items during transit, delivery, storage and handling to prevent damage, soiling and deterioration. The Woodwork Contractor and General Contractor shall be jointly responsible.
2.20 INSTALLATION	A. Woodwork Contractor shall notify the Architect in writing of any discrepancies between Drawings and field conditions and shall not proceed with the portion of Work in question until the discrepancies are clarified.
2.21 EXECUTION	A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scoring, trimming, and fitting.
2.22 WARRANTY	A. Special Installer's Warranty: Installer's standard form in which Installer agrees to repair or replace elastomeric joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
2.23 MATERIALS	A. Plastic Laminate: Plastic laminate color, manufacturer and finish as designated on finish plans, shall be of the following types for specific application, conforming to NEMA LD-3 and Architect approved samples. Adhesive: Contact Type, FS MM-A 130, as recommended by manufacturer to suit application.
2.24 FABRICATION	A. General: Complete fabrication to maximum extent possible before shipment to Project site. Where necessary for fitting at site, provide allowance for scoring, trimming, and fitting.
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SECTION 072000	JOINT SEALANTS
PART 1 - GENERAL	
1.1 RELATED DOCUMENTS	A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
1.2 SUMMARY	A. This Section includes joint sealants for the following applications, including those specified by reference to this Section: <ol style="list-style-type: none">Interior joints in the following vertical surfaces and horizontal nontraffic surfaces:<ol style="list-style-type: none">Control and expansion joints on exposed interior surfaces of exterior walls.Perimeter joints of exterior openings where indicated.Tile control and expansion joints.Vertical joints on exposed surfaces of concrete walls and partitions.Perimeter joints between interior wall surfaces and frames of interior doors and windows.Joints between plumbing fixtures and adjoining walls, floors, and counters.Other joints as indicated.
1.3 PERFORMANCE REQUIREMENTS	A. Provide elastomeric joint sealants that establish and maintain watertight and airtight continuous joint seals without staining or deteriorating joint substrates.
1.4 SUBMITTALS	A. Product Data: For each joint-sealant product indicated.
1.5 QUALITY ASSURANCE	A. Installer Qualifications: Manufacturer's authorized Installer who is approved or licensed for installation of elastomeric sealants required for this Project.
1.6 PROJECT CONDITIONS	A. Do not proceed with installation of joint sealants under the following conditions: <ol style="list-style-type: none">When ambient and substrate temperature conditions are outside limits permitted by joint-sealant manufacturer or are below 40 deg F.
1.7 WARRANTY	A. Special Installer's Warranty: Installer's standard form in which Installer agrees to repair or replace elastomeric joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
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SECTION 092200 GYPSUM BOARD

- PART 1 - GENERAL
- 1.1 RELATED DOCUMENTS
- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- 1.2 SUMMARY
- A. This Section includes the following:
1. Interior gypsum board.
- B. Related Sections include the following:
1. Division 7 Section "Joint Sealants" for acoustical sealants installed in assemblies that incorporate gypsum board.
2. Division 9 Section "Non-Load-Bearing Steel Framing" for non-structural framing and suspension systems that support gypsum board.
3. Division 9 painting Sections for primers applied to gypsum board surfaces.
- 1.3 SUBMITTALS
- A. Product Data: For each type of product indicated.
- 1.4 STORAGE AND HANDLING
- A. Store materials inside under cover and keep them dry and protected against damage from weather, condensation, direct sunlight, construction traffic, and other causes. Stack panels flat to prevent sagging.
- 1.5 PROJECT CONDITIONS
- A. Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written recommendations, whichever are more stringent.
- B. Do not install interior products until installation areas are enclosed and conditioned.
- C. Do not install panels that are wet, those that are moisture damaged, and those that are mold damaged.
1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

- PART 2 - PRODUCTS
- 2.1 PANELS, GENERAL
- A. Size: Provide in maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.
- 2.2 INTERIOR GYPSUM BOARD
- A. General: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
- a. American Gypsum Co.
- b. BPB America Inc.
- c. G-P Gypsum.
- d. Gold Bond
- e. Lafarge North America Inc.
- f. National Gypsum Company.
- g. PABCO Gypsum.
- h. Temple.
- i. USG Corporation.
- B. Regular Type:
1. Thickness: 5/8 inch.
2. Long Edges: Tapered.

- 2.3 TRIM ACCESSORIES
- A. Interior Trim: ASTM C 1047.
1. Material: Galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized steel sheet
2. Shapes:
- a. Cornerbead.
- b. Bullnose bead.
- c. LC-Bead: J-shaped; exposed long flange receives joint compound.
- d. L-Bead: L-shaped; exposed long flange receives joint compound.
- e. U-Bead: J-shaped; exposed short flange does not receive joint compound.
- f. Expansion (control) joint.
- g. Curved-Edge Cornerbead: With notched or flexible flanges.
- 2.4 JOINT TREATMENT MATERIALS
- A. General: Comply with ASTM C 475/C 475M.
- B. Joint Tape:
1. Interior Gypsum Wallboard: Paper.
- C. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
1. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
- a. Use setting-type compound for installing paper-faced metal trim accessories.
3. Fill Coat: For second coat, use drying-type, all-purpose compound.
4. Finish Coat: For third coat, use drying-type, all-purpose compound.

- 2.5 AUXILIARY MATERIALS
- A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.
- B. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.
- C. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.
- D. Sound Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.
- E. Acoustical Sealant: As specified in Division 7 Section "Joint Sealants."
- F. Thermal Insulation: As specified in Division 7 Section "Building Insulation."
- G. Vapor Retarder: As specified in Division 7 Section "Building Insulation."
- 1.3 SUBMITTALS
- A. Product Data: For each type of product indicated.
- 1.4 STORAGE AND HANDLING
- A. Store materials inside under cover and keep them dry and protected against damage from weather, condensation, direct sunlight, construction traffic, and other causes. Stack panels flat to prevent sagging.
- 1.5 PROJECT CONDITIONS
- A. Environmental Limitations: Comply with ASTM C 840 requirements or gypsum board manufacturer's written recommendations, whichever are more stringent.
- B. Do not install interior products until installation areas are enclosed and conditioned.
- C. Do not install panels that are wet, those that are moisture damaged, and those that are mold damaged.
1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

- PART 2 - PRODUCTS
- 2.1 PANELS, GENERAL
- A. Size: Provide in maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.
- 2.2 INTERIOR GYPSUM BOARD
- A. General: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent.
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
- a. American Gypsum Co.
- b. BPB America Inc.
- c. G-P Gypsum.
- d. Gold Bond
- e. Lafarge North America Inc.
- f. National Gypsum Company.
- g. PABCO Gypsum.
- h. Temple.
- i. USG Corporation.
- B. Regular Type:
1. Thickness: 5/8 inch.
2. Long Edges: Tapered.

- 2.3 TRIM ACCESSORIES
- A. Interior Trim: ASTM C 1047.
1. Material: Galvanized or aluminum-coated steel sheet, rolled zinc, plastic, or paper-faced galvanized steel sheet
2. Shapes:
- a. Cornerbead.
- b. Bullnose bead.
- c. LC-Bead: J-shaped; exposed long flange receives joint compound.
- d. L-Bead: L-shaped; exposed long flange receives joint compound.
- e. U-Bead: J-shaped; exposed short flange does not receive joint compound.
- f. Expansion (control) joint.
- g. Curved-Edge Cornerbead: With notched or flexible flanges.
- 2.4 JOINT TREATMENT MATERIALS
- A. General: Comply with ASTM C 475/C 475M.
- B. Joint Tape:
1. Interior Gypsum Wallboard: Paper.
- C. Joint Compound for Interior Gypsum Wallboard: For each coat use formulation that is compatible with other compounds applied on previous or for successive coats.
1. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
- a. Use setting-type compound for installing paper-faced metal trim accessories.
3. Fill Coat: For second coat, use drying-type, all-purpose compound.
4. Finish Coat: For third coat, use drying-type, all-purpose compound.

SECTION 092200 GYPSUM BOARD (CONT'D)

- 2.5 AUXILIARY MATERIALS
- A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written recommendations.
- B. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.
- C. Steel Drill Screws: ASTM C 1002, unless otherwise indicated.
- D. Sound Attenuation Blankets: ASTM C 665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.
- E. Acoustical Sealant: As specified in Division 7 Section "Joint Sealants."
- F. Thermal Insulation: As specified in Division 7 Section "Building Insulation."
- G. Vapor Retarder: As specified in Division 7 Section "Building Insulation."
- PART 3 - EXECUTION
- 3.1 EXAMINATION
- A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames and framing, for compliance with requirements and other conditions affecting performance.
- B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.
- 3.2 APPLYING AND FINISHING PANELS, GENERAL
- A. Comply with ASTM C 840.
- B. Install ceiling panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.
- C. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place.
- D. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.
- E. Form control and expansion joints with space between edges of adjoining gypsum panels.
- F. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), except in concealed spaces internally.
1. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. in area.
2. Fit gypsum panels around ducts, pipes, and conduits.
3. Where partitions intersect structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by structural members; allow 1/4- to 3/8-inch-wide joints to install sealant.
- G. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments, except floors. Provide 1/4- to 1/2-inch-wide spaces at these locations, and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.
- H. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.

- 3.3 APPLYING INTERIOR GYPSUM BOARD
- A. General: Comply with the following locations:
1. Regular Type: As indicated on Drawings.
2. Ceiling Type: As indicated on Drawings.
- B. Single-Layer Application:
1. On ceilings, apply gypsum panels before wall/partition board application to greatest extent possible and at right angles to framing, unless otherwise indicated.
2. On partitions/walls, apply gypsum panels horizontally (perpendicular to framing), unless otherwise indicated or required by fire-resistance-rated assembly, and minimize end joints.
- a. Stagger abutting end joints not less than one framing member in alternate courses of panels.
3. Fastening Methods: Apply gypsum panels to supports with steel drill screws.
- 3.4 INSTALLING TRIM ACCESSORIES
- A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.
- B. Interior Trim: Install in the following locations:
1. Cornerbead: Use at outside corners.
2. LC-Bead: Use at exposed panel edges.
3. Curved-Edge Cornerbead: Use at curved openings.

- 3.5 FINISHING GYPSUM BOARD
- A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.
- B. Prefill open joints, rounded or beveled edges, and damaged surface areas.
- C. Apply joint tape over gypsum board joints, except those with trim having flanges not intended for tape.
- D. Gypsum Board Finish Levels: Finish panels to levels indicated below:
1. Level 4: At panel surfaces that will be exposed to view, unless otherwise indicated.
- a. Primer and its application to surfaces are specified in other Division 9 Sections.
- 3.6 PROTECTION
- A. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.
- B. Remove and replace panels that are wet, moisture damaged, and mold damaged.
1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

SECTION 081213 HOLLOW METAL FRAMES

- PART 1 - GENERAL
- 1.1 RELATED DOCUMENTS
- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- 1.2 SUMMARY
- A. This Section includes the following:
1. Standard hollow-metal steel frames.
- B. Related Sections include the following:
1. Division 9 painting Sections for field painting standard steel frames.
- 1.3 DEFINITIONS
- A. Minimum Thickness: Minimum thickness of base metal without coatings.
- 1.4 SUBMITTALS
- A. Product Data: Include construction details, material descriptions, core descriptions, label compliance, fire-resistance rating, and finishes for each type of steel frame specified.
- B. Shop Drawings: In addition to requirements below, provide a schedule of standard steel frames using same reference numbers for details and openings as those on Drawings:
1. Frame details for each frame type, including dimensioned profiles.
2. Details and locations of reinforcement and preparations for hardware.
3. Details of each different wall opening condition.
4. Details of anchorages, accessories, joints, and connections.
- C. Coordination Drawings: Drawings of each opening, including frame, drawn to scale and coordinating door hardware. Show elevations of each door frame type, showing dimensions, and locations of door hardware.
- D. Qualification Data: For Installer.
- E. Product Test Reports: Based on evaluation of comprehensive fire tests performed by a qualified testing agency, for each type of standard steel frame.

- 1.5 QUALITY ASSURANCE
- A. Installer Qualifications: An employer of workers trained and approved by manufacturer.
- B. Source Limitations: Obtain standard steel frames through one source from a single manufacturer.
- 1.6 DELIVERY, STORAGE, AND HANDLING
- A. Deliver frames palletized, wrapped, or crated to provide protection during transit and Project-site storage. Do not use nonvented plastic.
- B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs.
- C. Store frames under cover at Project site. Place units in a vertical position with heads up, spaced by blocking on minimum 4-inch high wood blocking. Avoid using nonvented plastic or canvas shelters that could create a humidity chamber.
- 1.7 PROJECT CONDITIONS
- A. Field Measurements: Verify openings by field measurements before fabrication and indicate measurements on Shop Drawings.
1. Established Dimensions: Where field measurements cannot be made without delaying the Work, establish opening dimensions and proceed with fabricating standard steel frames without field measurements. Coordinate wall construction to ensure that actual opening dimensions correspond to established dimensions.

- PART 2 - PRODUCTS
- 2.1 MANUFACTURERS
- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
1. Amvel Building Products, LLC.
2. Ceco Door Products; an ASSA ABLOY Group Company.
3. CURRIES Company; an ASSA ABLOY Group Company.
4. Fleming Door Products Ltd.; an ASSA ABLOY Group Company.
5. Kevanac Corporation (The).
6. Pioneer Industries, Inc.
7. Pioneer Builders Products Company.
8. Steelcraft; an Ingersoll-Rand Company.
- 2.2 MATERIALS
- A. Cold-Rolled Steel Sheet: ASTM A 1008/A 1008M, Commercial Steel (CS), Type B, suitable for exposed applications.
- B. Hot-Rolled Steel Sheet: ASTM A 1011/A 1011M, Commercial Steel (CS), Type B, free of scale, pitting, or surface defects; pickled and oiled.
- C. Metallic-Coated Steel Sheet: ASTM A 653/A 653M, Commercial Steel (CS), Type B, with minimum A40 zinc-iron alloy (galvalume) coating designation.
- D. Electrolytic Zinc-Coated Steel Sheet: ASTM A 591/A 591M, Commercial Steel (CS), Class B coating; mill phosphatized.
- E. Supports and Anchors: After fabricating, galvanize units to be built into exterior walls according to ASTM A 153/A 153M, Class B.
- F. Inserts, Bolts, and Fasteners: Provide items to be built into exterior walls, hot-dip galvanized according to ASTM A 153/A 153M.
- G. Bituminous Coating: Cold-applied asphalt mastic, SSPC-Paint 12, compounded for 15-mil dry film thickness per coat. Provide inert-type noncorrosive compound free of asbestos fibers, sulfur components, and other deleterious impurities.

- 2.3 STANDARD STEEL FRAMES
- A. General: Comply with ANSI A250.8 and with details indicated for type and profile.
- B. Interior Frames: Fabricated from cold-rolled steel sheet, unless otherwise indicated to comply with exterior frame requirements.
1. Fabricate frames with mitered or coped and welded face corners and seamless face joints.
2. Frames for Wood Doors: 0.053-inch-thick (16 gauge) steel sheet.
- C. Hardware Reinforcement: Fabricate reinforcement plates from same material as frames to comply with the following minimum sizes:
1. Hinges: Minimum 0.123 inch thick by 1-1/2 inches wide by 6 inches longer than hinge, secured by not less than 6 spot welds.
2. Pivots: Minimum 0.167 inch thick by 1-1/2 inches wide by 6 inches longer than hinge, secured by not less than 6 spot welds.
3. Lock Face, Flush Bolts, Closers, and Concealed Holders: Minimum 0.067 inch thick.
4. All Other Surface-Mounted Hardware: Minimum 0.067 inch thick.
- D. Supports and Anchors: Fabricated from electrolytic zinc-coated or metallic-coated steel sheet.
- E. Jamb Anchors:
1. Stud-Wall Type: Designed to engage stud, welded to back of frames; not less than 0.042 inch thick.
- F. Floor Anchors: Formed from same material as frames, not less than 0.042 inch thick, and as follows:
1. Monolithic Concrete Slabs: Clip-type anchors, with two holes to receive fasteners.
- G. Fabricate concealed stiffeners and hardware reinforcement from either cold- or hot-rolled steel sheet.
- H. Plaster Guards: Formed from same material as frames, not less than 0.016-inch thick.

- 2.4 FABRICATION
- A. General: Fabricate standard steel frames to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment.
- B. Standard Steel Frames: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
1. Welded Frames: Weld flush face joints continuously; grind, file, dress, and make smooth, flush, and invisible.
2. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners, unless otherwise indicated.
3. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per jamb.
4. Jamb Anchors: Provide number and spacing of anchors as follows:
- a. Stud-Wall Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:
- 1) Three anchors per jamb up to 60 inches in height.
- 2) Four anchors per jamb from 60 to 90 inches in height.
- 3) Five anchors per jamb from 90 to 96 inches in height.
- 4) Five anchors per jamb plus 1 additional anchor per jamb for each 24 inches or fraction thereof more than 96 inches in height.
- 5) Two anchors per head for frames more than 42 inches wide and mounted in metal-stud partitions.
5. Door Silencers: Except on weather-stripped doors, drill stops to receive door silencers as follows. Provide plastic plugs to keep holes clear during construction.
- a. Single Door Frames: Drill stop in strike jamb to receive three door silencers.
- C. Hardware Preparation: Factory prepare standard steel frames to receive templated mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping, according to the Door Hardware Schedule and templates furnished as specified in Division 8 Section "Door Hardware."
1. Reinforce frames to receive nontemplated mortised and surface-mounted door hardware.
2. Comply with applicable requirements in ANSI A250.8 and ANSI/DH1 A115 Series specifications for frame preparation for hardware. Locate hardware as indicated on Shop Drawings or, if not indicated, according to ANSI A250.8.

- 2.5 STEEL FINISHES
- A. General: Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
1. Finish standard steel frames after assembly.
- B. Metallic-Coated Steel Surface Preparation: Clean surfaces with nonpetroleum solvent so surfaces are free of oil and other contaminants. After cleaning, apply a conversion coating suited to the organic coating to be applied over it. Clean welds, mechanical connections, and abraded areas, and apply galvanizing repair paint specified below to comply with ASTM A 780.
1. Galvanizing Repair Paint: High-zinc-dust-content paint for regalvanizing welds in steel, complying with SSPC-Paint 20.
- C. Steel Surface Preparation: Clean surfaces to comply with SSPC-SP 1, "Solvent Cleaning"; remove dirt, oil, grease, or other contaminants that could impair paint bond. Remove mill scale and rust, if present, from uncoated steel, comply with SSPC-SP 3, "Power Tool Cleaning," or SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
- D. Factory Priming for Field-Painted Finish: Apply shop primer specified below immediately after surface preparation and pretreatment. Apply a smooth coat of even consistency to provide a uniform dry film thickness of not less than 0.7 mils.
1. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with ANSI A250.10 acceptance criteria; recommended by primer manufacturer for substrate, compatible with substrate and field-applied finish paint system indicated; and providing a sound foundation for field-applied topcoats despite prolonged exposure.

SECTION 081213 HOLLOW METAL FRAMES (CONT'D)

- PART 3 - EXECUTION
- 3.1 EXAMINATION
- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of standard steel frames.
1. Examine roughing-in for embedded and built-in anchors to verify actual locations of standard steel frame connections before frame installation.
2. Proceed with installation only after unsatisfactory conditions have been corrected.
- 3.2 PREPARATION
- A. Remove welded-in shipping spreaders installed at factory.
- B. Prior to installation and with installation spreaders in place, adjust and securely brace standard steel door frames for squareness, alignment, twist, and plumb to the following tolerances:
1. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
2. Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
3. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
4. Plumbness: Plus or minus 1/16 inch, measured at jambs on a perpendicular line from head to floor.
- C. Drill and tap frames to receive nontemplated mortised and surface-mounted door hardware.
- 3.3 INSTALLATION
- A. General: Provide frames of sizes, thicknesses, and designs indicated. Install standard steel frames plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.
1. Install with no exposed fasteners.
- B. Standard Steel Frames: Install standard steel frames for doors, of size and profile indicated. Comply with SD 105.

1. Set frames accurately in position; plumb, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces, leaving surfaces smooth and undamaged.
- a. At fire-protection-rated openings, install frames according to NFPA 80.
- b. Where frames are fabricated in sections due to shipping or handling limitations, field splice at approved locations by welding face joint continuously; grind, file, dress, and make splice smooth, flush, and invisible on exposed faces.
- c. Install frames with removable glazing stops located on secure side of opening.
- d. Install door silencers in frames before grouting.
- e. Remove temporary braces necessary for installation only after frames have been properly set and secured.
- f. Check plumb, squareness, and twist of frames as walls are constructed. Shim as necessary to comply with installation tolerances.
2. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor and secure with postinstalled expansion anchors.
3. Metal Stud Partitions: Solidly pack mineral-fiber insulation behind frames.
4. Installation Tolerances: Adjust standard steel door frames for squareness, alignment, twist, and plumb to the following tolerances:
- a. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
- b. Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
- c. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
- d. Plumbness: Plus or minus 1/16 inch, measured at jambs at floor.
- 3.4 ADJUSTING AND CLEANING
- A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including standard steel frames that are warped, bowed, or otherwise unacceptable.
- B. Clean girth and other bonding material off standard steel frames immediately after installation.
- C. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying primer.

SECTION 081416 FLUSH WOOD DOORS

- PART 1 - GENERAL
- 1.1 SUMMARY
- A. Section Includes:
1. Solid-core doors with wood-veneer faces.
2. Factory finishing flush wood doors.
- 1.2 SUBMITTALS
- A. Product Data: For each type of door indicated. Include factory-finishing specifications.
- B. Shop Drawings: Include location, size, and hand of each door; elevation of each kind of door; construction details not covered in Product Data; location and extent of hardware blocking; and other pertinent data.
1. Indicate dimensions and locations of mortises and holes for hardware.
2. Indicate dimensions and locations of cutouts.
3. Indicate doors to be factory finished and finish requirements.
4. Indicate fire-protection ratings for fire-rated doors.
- C. Samples: For factory-finished doors.
- 1.3 QUALITY ASSURANCE
- A. Quality Standard: In addition to requirements specified, comply with AWI's "Architectural Woodwork Quality Standards Illustrated."

- PART 2 - PRODUCTS
- 2.1 MANUFACTURERS
- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Masonite Inc.
2. Marshfield Door Systems, Inc.
- 2.2 DOOR CONSTRUCTION, GENERAL
- A. Doors for Translucent Finish:
1. Grade: Premium, with Grade A faces.
2. Species: Maple or Oak to Match Building Standard.
3. Cut: Plain sized (flat sized).
4. Match between Veneer Leaves: Book match.
5. Assembly of Veneer Leaves on Door Faces: Running match.
6. Room Match: Match door faces within each separate room or area of building. Corridor door faces do not need to match where they are separated by 20 feet or more.
7. Construction: Five ply. Stiles and rails are bonded to core, then entire unit abrasive planed before veneering.
8. Adhesives: Type I per WDMA TM-6.
9. Core: Particleboard.
- 2.3 FABRICATION
- A. Factory machine doors for hardware that is not surface applied.
- 2.4 FACTORY FINISHING
- A. General: Comply with referenced quality standard for factory finishing. Complete fabrication, including fitting doors for openings and machining for hardware that is not surface applied, before finishing.
1. Finish faces, all four edges, edges of cutouts, and mortises. Stains and fillers may be omitted on bottom edges, and mortises.
2. Cut: Plan sized (flat sized).
- C. Transparent Finish:
1. Grade: Premium.
2. Finish: AWI conversion varnish system.
3. Staining: Match Architect's sample or AS selected by Architect from manufacturer's full range.
4. Sheen: Semigloss.

- PART 3 - EXECUTION
- 3.1 INSTALLATION
- A. Hardware: For installation, refer to manufacturer's written instructions.
- B. Installation Instructions: Factory install doors to comply with manufacturer's written instructions and the referenced quality standard, and as indicated.
- C. Job-Fitted Doors: Align and fit doors in frames with uniform clearances and bevels; do not trim stiles and rails in excess of limits set by manufacturer or permitted for fire-rated doors. Machine doors for hardware. Seal edges of doors, edges of cutouts, and mortises after fitting and machining.
1. Clearances: Provide 1/8 inch (3.2 mm) at heads, jambs, and between pairs of doors. Provide 1/8 inch (3.2 mm) from bottom of door to top of decorative floor finish or covering unless otherwise indicated. Where threshold is shown or scheduled, provide 1/4 inch (6.4 mm) from bottom of door to top of threshold unless otherwise indicated.
- D. Factory-Finished Doors: Restore finish before installation if fitting or machining is required at Project site.

SECTION 092216 NON-STRUCTURAL METAL FRAMING

- PART 1 - GENERAL
- 1.1 RELATED DOCUMENTS
- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- 1.2 SUMMARY
- A. This Section includes non-load-bearing steel framing members for the following applications:
1. Interior framing systems (e.g., supports for partition walls, framed soffits, furring, etc.).
2. Interior suspension systems (e.g., supports for ceilings, suspended soffits, etc.).
- B. Related Sections include the following:
1. Division 7 Section "Building Insulation" for insulation associated with framing.
2. Division 9 Section "Gypsum Board" for cladding of metal framing.
- 1.3 SUBMITTALS
- A. Product Data: For each type of product indicated.
- PART 2 - PRODUCTS
- 2.1 NON-LOAD-BEARING STEEL FRAMING, GENERAL
- A. Framing Members, General: Comply with ASTM C 754 for conditions indicated.
1. Steel Sheet Components: Comply with ASTM C 645 requirements for metal, unless otherwise indicated.
2. Protective Coating: manufacturer's standard corrosion-resistant zinc coating, unless otherwise indicated.
- 2.2 SUSPENSION SYSTEM COMPONENTS
- A. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.1055-inch-diameter wire.
- B. Hanger Attachments to Concrete:
1. Anchors: Fabricated from corrosion-resistant materials with holes or loops for attaching wire hangers and capable of sustaining, without failure, a load equal to 5 times that imposed by construction as determined by testing according to ASTM E 488 by an independent testing agency.
- a. Type: Postinstalled, chemical anchor or expansion anchor.
2. Fasteners: Suitable for application indicated; fabricated from corrosion-resistant materials with clips or other devices for attaching hangers of type indicated, and capable of sustaining, without failure, a load equal to 10 times that imposed by construction as determined by testing according to ASTM E 1190 by an independent testing agency.
- C. Wire Hangers: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.162-inch diameter.
- D. Sproyng Channel: Cold-rolled, commercial-steel sheet with a base-metal thickness of 0.0538 inch and minimum 1/2-inch-wide flanges.
1. Depth: As indicated on Drawings.
- E. Grid Suspension System for Ceilings: ASTM C 645, direct-hung system composed of main beams and cross-furring members that interlock.
1. Products: Subject to compliance with requirements, provide one of the following:
- a. Armstrong World Industries, Inc., Drywall Grid Systems.
- b. Chicago Metallic Corporation; 660-E Drywall Furring System.
- c. USG Corporation; Drywall Suspension System.

- 2.3 STEEL FRAMING FOR FRAMED ASSEMBLIES
- A. Steel Studs and Runners: ASTM C 645.
- B. Minimum Base-Metal Thickness: As indicated on Drawings.
- B. Slip-Type Head Joints: Where indicated, provide the following:
1. Deflection Track: Steel sheet top runner manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above; in thickness not less than indicated for studs and in width to accommodate depth of studs.
- a. Products: Subject to compliance with requirements, provide one of the following:
- 1) Steel Network Inc. (The); VertiTrack VTD Series.
- 2) Superior Metal Trim; Superior Flex Track System (SFT).
- C. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.
1. Minimum Base-Metal Thickness: 0.027 inch.
- D. Cold-Rolled Channel Bridging: 0.0538-inch bare-steel thickness, with minimum 1/2-inch-wide flanges.
1. Depth: 4-1/2 inches.
2. Clip Angle: Not less than 1-1/2 by 1-1/2 inches, 0.068-inch-thick, galvanized steel.
- 2.4 AUXILIARY MATERIALS
- A. General: Provide auxiliary materials that comply with referenced installation standards.
1. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates.
- B. Isolation Strip at Exterior Walls: Provide the following:
1. Foam Gasket: Adhesive-backed, closed-cell vinyl foam strips that allow fastener penetration without foam displacement, 1/8 inch thick, in width to suit steel stud size.

- PART 3 - EXECUTION
- 3.1 EXAMINATION
- A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance.
1. Proceed with installation only after unsatisfactory conditions have been corrected.
- 3.2 PREPARATION
- A. Suspended Assemblies: Coordinate installation of suspension systems with installation of overhead structure to ensure that fasteners for anchorages to building structure have been installed to receive hangers at spacing required to support the Work and that hangers will develop their full strength.
1. Furnish concrete inserts and other devices indicated to other trades for installation in advance of time needed for coordination and construction.
- 3.3 INSTALLATION, GENERAL
- A. Installation Standard: ASTM C 754.
1. Gypsum Board Assemblies: Also comply with requirements in ASTM C 840 that apply to framing installation.
- B. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.
- C. Install bracing at terminations in assemblies.
- D. Do not bridge building control and expansion joints with non-load-bearing steel framing members. Frame both sides of joints independently.
- 3.4 INSTALLING SUSPENSION SYSTEMS
- A. Install suspension system components in sizes and spacings indicated on Drawings, but not less than those required by referenced installation standards for assembly types and other assembly components indicated.
- B. Isolate suspension systems from building structure where they abut or are penetrated by building structure to prevent transfer of loading imposed by structural movement.
- C. Suspend hangers from building structure as follows:
1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or suspension system.
- a. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, countersplaying, or other equally effective means.
2. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with locations of hangers required to support standard suspension system members, install supplemental suspension members and hangers in the form of trapezes or equivalent devices.
- a. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced installation standards.
3. Wire Hangers: Secure by looping and wire tying, either directly to structures or to inserts, eye screws, or other devices and fasteners that are secure and appropriate for substrate, and in a manner that will not cause hangers to deteriorate or otherwise fail.
4. Do not attach hangers to steel roof deck.
5. Do not attach hangers to permanent metal forms. Furnish cast-in-place hanger inserts that extend through forms.
6. Do not attach hangers to rolled-in hanger tabs of composite steel floor deck.
7. Do not connect or suspend steel framing from ducts, pipes, or conduit.
- D. Fire-Resistance-Rated Assemblies: Wire tie furring channels to supports.
- E. Seismic Bracing: Sway-brace suspension systems with hangers used for support.
- F. Grid Suspension Systems: Attach perimeter wall track or angle where grid suspension systems meet vertical surfaces. Mechanically join main beams and cross-furring members to each other and but-tout to fit into wall track.
- G. Installation Tolerances: Install suspension systems that are level to within 1/8 inch in 12 feet measured lengthwise on each member that will receive finishes and transversely between parallel members that will receive finishes.

- 3.5 INSTALLING FRAMED ASSEMBLIES
- A. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.
- B. Install studs so flanges within framing system point in same direction.
- C. Install tracks (runners) at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings, except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts penetrating partitions above ceiling.
1. Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
2. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install runner track section (for cripple studs) at head and secure to jamb studs.
- a. Install two studs at each jamb, unless otherwise indicated.
- b. Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2-inch clearance from jamb stud to allow for installation of control joint in finished assembly.
- c. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
3. Other Framed Openings: Frame openings other than door openings the same as are required for door openings, unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
4. Fire-Resistance-Rated Partitions: Install framing to comply with fire-resistance-rated assembly indicated and support closures and to make partitions continuous from floor to underside of solid structure.
5. Sound-Rated Partitions: Install framing to comply with sound-rated assembly indicated.
- D. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch from the plane formed by faces of adjacent framing.

Suffield Public Schools

Ward Spaulding School
Preschool Classroom
Renovations

945 MOUNTAIN RD
WEST SUFFIELD, CT 06093

CONSULTANTS

KEY PLAN

PROJECT DATA		
PROJECT NUMBER	2016	
CURRENT SUBMISSION DATE	6.01.20	
DRAWN	AEO	
CHECKED	CAB	
SCALE	1 : 1	
FILE REFERENCE	C:\Users\AEO\Documents\2016-Suffield Spaulding School-CENTRAL-2020_AEO.rvt	

HISTORY OF SUBMISSIONS

No.	Date	Description

SECTION 093013	CERAMIC TILING
PART 1 - GENERAL	
1.1 SUMMARY	
A. Section Includes:	1. Ceramic tile.
	2. Stone thresholds.
	3. Waterproof membrane.
	4. Crack isolation membrane.
	5. Tile backing panels.
1.2 SUBMITTALS	
A. Product Data:	For each type of product indicated.
B. Samples:	1. Each type and composition of tile and for each color and finish required.
	2. Assembled samples, with grouted joints, for each type and composition of tile and for each color and finish required.
	3. Stone thresholds in 6-inch (150-mm) lengths.
1.3 EXTRA MATERIALS	
A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering and identified with labels describing contents.	
	1. Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed for each type, composition, color, pattern, and size indicated.
PART 2 - PRODUCTS	
2.1 TILE PRODUCTS	
A. ANSI Ceramic Tile Standard: Provide Standard grade tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.	
B. Tile Type PT-1: Unglazed Porcelain Floor Tile (for use in Toilet Rooms).	
	1. Basis-of-Design Product: Time/2.0 Porcelain Tile by Florida tile.
	2. Face Size: 12 x 24 inches.
	3. Grout Color: As selected by Architect from manufacturer's full range.
	4. Trim Units: Coordinated with sizes and coursing of adjoining flat tile where applicable and matching characteristics of adjoining flat tile. Provide shapes as follows, selected from manufacturer's standard shapes:
	a. Base: Coved with surface bullnose top edge, 6 x 12 face size.
	C. Tile Type WT-1: Through-body Porcelain Wall Tile (for use in Toilet Rooms wet wall).
	1. Basis-of-Design Product: Time/2.0 Porcelain Tile by Florida tile.
	a. Wearing Surface: Nonabrasive, smooth.
	b. Facial Dimensions: 12 x 24 inches.
	c. Color: To be selected by Architect.
	d. Trim Units: Provide bullnose to coordinate with basis-of-design product.
2.2 THRESHOLDS	
A. General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.	
	1. Bevel edges as indicated on Drawings. Limit height of threshold to 1/2 inch (12.7 mm) or less above adjacent floor surface.
B. Marble Thresholds: ASTM C 503, with a minimum abrasion resistance of 12 per ASTM C 1353 or ASTM C 241 and with honed finish.	
	1. Description: As selected by Architect from manufacturer's full range.
2.3 TILE BACKING PANELS	
A. Cementitious Backer Units: ANSI A118.9 or ASTM C 1325.	
	1. Products: Subject to compliance with requirements, allowing products that may be incorporated into the Work include, but are not limited to, the following:
	a. FinPan, Inc.; Uti-A-Crete Concrete Backer Board.
	b. USG Corporation; DUROCK Cement Board.
	2. Thickness: 1/2 inch (12.7 mm).
2.4 WATERPROOF AND CRACK SUPPRESION MEMBRANE	
A. General: Manufacturer's standard product that complies with ANSI A118.10 and is recommended by the manufacturer for the application indicated.	
B. Fabric-Reinforced, Fluid-Applied Membrane: System consisting of liquid-latex rubber or elastomeric polymer and continuous fabric reinforcement.	
	1. Products: Subject to compliance with requirements, provide one of the following:
	a. Custom Building Products; Trowel & Seal Waterproofing and Anti-Fracture Membrane
	b. Latcrete International, Inc.; Latcrete 9235 Waterproof Membrane.
	c. MAPEI Corporation; PRP M15.
	d. Summitville Tiles, Inc.; S-9000.
2.5 SETTING AND GROUTING MATERIALS	
A. Manufacturers:	
	1. Atlas Minerals & Chemicals, Inc.
	2. Board Products Corporation.
	3. Borsell, W. R., Company.
	4. Bostik.
	5. C-Cure.
	6. Custom Building Products.
	7. DAP, Inc.
	8. Jamo Inc.
	9. LATICRETE International Inc.
	10. MAPEI Corporation.
	11. Southern Grouts & Mortars, Inc.
	12. Summitville Tiles, Inc.
	13. TEC Specialty Products Inc.
B. Latex-Portland Cement Mortar (Thin Set): ANSI A118.4.	
	1. For wall applications, provide nonsagging mortar.
C. Polymer-Modified Tile Grout: ANSI A118.7.	
	1. Polymer Type: Liquid-latex form for addition to prepackaged dry-grout mix.
2.6 ELASTOMERIC SEALANTS	
A. General: Provide sealants, primers, backer rods, and other sealant accessories that comply with the following requirements and with the applicable requirements in Division 07 Section "Joint Sealants."	
B. One-Part, Mildew-Resistant Silicone Sealant: ASTM C 920; Type S; Grade NS; Class 25; Uses NT, G, A, and, as applicable to nonporous joint substrates indicated, O; formulated with fungicide, intended for sealing interior ceramic tile joints and other nonporous substrates that are subject to in-service exposures of high humidity and extreme temperatures.	
	1. Products: Subject to compliance with requirements, provide one of the following:
	a. Dow Corning Corporation; Dow Corning 786.
	b. GE Silicones, a division of GE Specialty Materials; Sanitary 1700.
	c. Pecora Corporation; Pecora 898 Sanitary Silicone Sealant.
	d. Tremco Incorporated; Tremseal 600 White.
2.7 MISCELLANEOUS MATERIALS	
A. Trowelable Underlayment and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.	
B. Metal Edge Strips: Angle or L-shape, half-hard brass exposed-edge material.	
C. Grout Sealer: Manufacturer's standard silicone product for sealing grout joints and that does not change color or appearance of grout.	
PART 3 - EXECUTION	
3.1 EXAMINATION	
A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of installed tile.	
	1. Verify that substrates for setting tile are firm, dry, clean, free of coatings that are incompatible with tile-setting materials including curing compounds and other substances that contain soap, wax, oil, or silicone, and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
3.2 PREPARATION	
A. Fill cracks, holes, and depressions with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.	
B. Blending: For tile exhibiting color variations, use factory blended tile or blend tiles at Project site before installing.	
C. Field-Applied Temporary Protective Coating: If indicated under tile type or needed to prevent grout from staining or adhering to exposed tile surfaces, precoat them with continuous film of temporary protective coating, taking care not to coat unexposed tile surfaces.	
3.3 INSTALLATION	
A. Comply with TCA's "Handbook for Ceramic Tile Installation" for TCA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 Series "Specifications for Installation of Ceramic Tile" that are referenced in TCA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.	
B. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.	
C. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of the abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.	
D. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.	
E. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:	
	1. Ceramic Mosaic Tile: 1/16 inch (1.6 mm).
	2. Quarry Tile: 3/8 inch (9.5 mm).
	3. Glazed Wall Tile: 1/16 inch (1.6 mm).
	4. Decorative Thin Wall Tile: 1/16 inch (1.6 mm).
F. Lay out the waistcoats to dimensions indicated or to next full tile beyond dimensions indicated.	
G. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.	
	1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.
	2. Prepare joints and apply sealants to comply with requirements in Division 07 Section "Joint Sealants."
H. Stone Thresholds: Install stone thresholds in same type of setting bed as adjacent floor unless otherwise indicated.	
	1. At locations where mortar bed (thickest) would otherwise be exposed above adjacent floor finishes, set thresholds in latex-portland cement mortar (thin set).

SECTION 093013	CERAMIC TILING (CONT'D)
I. Metal Edge Strips: Install at locations indicated.	
J. Grout Sealer: Apply grout sealer to cementitious grout joints in tile floors and walls according to grout-sealer manufacturer's written instructions. As soon as grout sealer has penetrated grout joints, remove excess sealer and sealer from tile faces by wiping with soft cloth.	
K. Install cementitious backer units and treat joints according to ANSI A108.11 and manufacturer's written instructions for type of application indicated. Use latex-portland cement mortar for bonding material unless otherwise directed in manufacturer's written instructions.	
L. Install waterproofing to comply with ANSI A108.13 and manufacturer's written instructions to produce waterproof membrane of uniform thickness and bonded securely to substrate.	
M. Install crack isolation membrane to comply with ANSI A108.17 and manufacturer's written instructions to produce membrane of uniform thickness and bonded securely to substrate.	
3.4 INTERIOR TILE INSTALLATION SCHEDULE	
A. Interior Floor Installations, Concrete Subfloor:	
	1. Tile Installation F122: Thin-set mortar on waterproof crack-suppression membrane; TCA F122.
	a. Tile Type: PT-1.
	b. Thin-Set Mortar: Latex-portland cement mortar.
	c. Grout: Polymer-modified unsanded grout.
B. Interior Wall Installations, Metal Studs or Furring:	
	1. Tile Installation W244: Thin-set mortar on cementitious backer units or fiber cement underlayment; TCA W244.
	a. Tile Type: WT-1.
	b. Thin-Set Mortar: Latex-portland cement mortar.
	c. Grout: Polymer-modified sanded grout.
SECTION 096513	RESILIENT BASE AND ACCESSORIES
PART 1 - GENERAL	
1.1 SUMMARY	
A. Section Includes:	1. Resilient base.
1.2 SUBMITTALS	
A. Product Data: For each type of product indicated.	
B. Samples: For each type of product indicated, in manufacturer's standard-size Samples but not less than 12 inches (300 mm) long, of each resilient product color, texture, and pattern required.	
1.3 PROJECT CONDITIONS	
A. Maintain ambient temperatures within range recommended by manufacturer in spaces to receive resilient products.	
B. Until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer.	
C. Install resilient products after other finishing operations, including painting, have been completed.	
PART 2 - PRODUCTS	
2.1 RESILIENT BASES B-1	
A. Resilient Base:	
	1. Manufacturers:
	a. Estrie Products International; American Biltrite (Canada) Ltd.
B. Resilient Base Standard: ASTM F 1861.	
	1. Material Requirement: Type TS (rubber, vulcanized thermoset).
	2. Manufacturing Method: Group 1 (solid, homogeneous).
	3. Style: Cove (base with toe).
	C. Minimum Thickness: 0.125 inch (3.2 mm).
	D. Height: 4 inches (102 mm).
	E. Lengths: Coils in manufacturer's standard length.
	F. Outside Corners: Job formed.
	G. Inside Corners: Preformed.
	H. Finish: As selected by Architect from manufacturer's full range.
	I. Colors and Patterns: As selected by Architect from full range of industry colors.
2.3 INSTALLATION MATERIALS	
A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by manufacturer for applications indicated.	
B. Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.	
PART 3 - EXECUTION	
3.1 PREPARATION	
A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.	
B. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.	
D. Do not install resilient products until they are same temperature as the space where they are to be installed.	
	1. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.
E. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation.	
3.2 RESILIENT BASE INSTALLATION	
A. Comply with manufacturer's written instructions for installing resilient base.	
B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.	
C. Install resilient base in lengths as long as practicable without gaps at seams and with tops of adjacent pieces aligned.	
D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.	
E. Do not stretch resilient base during installation.	
3.3 CLEANING AND PROTECTION	
A. Comply with manufacturer's written instructions for cleaning and protection of resilient products.	
B. Floor Polish: Remove soil, visible adhesive, and surface blemishes from resilient stair treads before applying liquid floor polish.	
	1. Apply two coat(s).
C. Cover resilient products until Substantial Completion.	
SECTION 096519	RESILIENT TILE FLOORING
PART 1 - GENERAL	
1.1 SUMMARY	
A. Section Includes:	1. Vinyl composition floor tile.
1.2 SUBMITTALS	
A. Product Data: For each type of product indicated.	
B. Samples: Full-size units of each color and pattern of floor tile required.	
C. Maintenance data.	
1.3 PROJECT CONDITIONS	
A. Maintain ambient temperatures within range recommended by manufacturer in spaces to receive floor tile.	
B. Until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer.	
C. Close spaces to traffic during floor tile installation.	
D. Close spaces to traffic for 48 hours after floor tile installation.	
E. Install floor tile after other finishing operations, including painting, have been completed.	
PART 2 - PRODUCTS	
2.1 VINYL COMPOSITION FLOOR TILE VCT-1	
A. Products: Subject to compliance with requirements, provide the following:	
	1. Color Essense VET by Tarkett.
B. Tile Standard: ASTM F 1066, Class 1, solid-color tile.	
C. Thickness: 0.125 inch (3.2 mm).	
D. Size: 12 by 12 inches (305 by 305 mm).	
E. Colors and Patterns: As selected by Architect from full range of industry colors.	
2.2 INSTALLATION MATERIALS	
A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic-cement-based formulation provided or approved by manufacturer for applications indicated.	
B. Adhesives: Water-resistant type recommended by manufacturer to suit floor tile and substrate conditions indicated.	
C. Floor Polish: Provide protective liquid floor polish products as recommended by manufacturer.	
PART 3 - EXECUTION	
3.1 PREPARATION	
A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.	
B. Concrete Substrates: Prepare according to ASTM F 710.	
	2. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
	2. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer.
	Do not use solvents.
	3. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
C. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound and remove bumps and ridges to produce a uniform and smooth substrate.	
D. Do not install floor tiles until they are same temperature as space where they are to be installed.	
	1. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.
E. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation.	
3.2 FLOOR TILE INSTALLATION	
A. Comply with manufacturer's written instructions for installing floor tile.	

SECTION 096519	RESILIENT TILE FLOORING (CONTINUED)
B. Lay out floor tiles from center marks established with principal walls, discounting minor offsets, so tiles at opposite edges of room are of equal width. Adjust as necessary to avoid using cut widths that equal less than one-half tile at perimeter.	
	1. Lay tiles square with room axis.
C. Scribe, cut, and fit floor tiles to butt neatly and tightly to vertical surfaces and permanent fixtures including built-in furniture, cabinets, pipes, outlets, and door frames.	
D. Extend floor tiles into toe spaces, door reveals, closets, and similar openings. Extend floor tiles to center of door openings.	
E. Maintain reference markers, holes, and openings that are in place or marked for future cutting by repeating on floor tiles as marked on substrates. Use chalk or other nonpermanent, nonstaining marking device.	
F. Adhere floor tiles to flooring substrates using a full spread of adhesive applied to substrate to produce a completed installation without open cracks, voids, raising and puckering at joints, telegraphing of adhesive spreader marks, and other surface imperfections.	
3.3 CLEANING AND PROTECTION	
A. Comply with manufacturer's written instructions for cleaning and protection of floor tile.	
B. Floor Polish: Remove soil, visible adhesive, and surface blemishes from floor tile surfaces before applying liquid floor polish.	
	1. Apply two coat(s).
C. Cover floor tile until Substantial Completion.	
SECTION 099123	INTERIOR PAINTING
PART 1 - GENERAL	
1.1 SUMMARY	
A. This Section includes surface preparation and the application of paint systems on the following interior substrates:	
	1. Clay masonry.
	2. Wood and Simulated Wood.
	3. Gypsum board.
	4. Plaster.
	5. Steel.
1.2 SUBMITTALS	
A. Product Data: For each type of product indicated.	
B. Samples: For each finish and for each color and texture required.	
C. Product List: Printout of current "MPI Approved Products List" for each product category specified in Part 2, with the proposed product highlighted.	
1.3 QUALITY ASSURANCE	
A. MPI Standards:	
	1. Products: Complying with MPI standards indicated and listed in "MPI Approved Products List."
	2. Preparation and Workmanship: Comply with requirements in "MPI Architectural Painting Specification Manual" for products and paint systems indicated.
1.4 DELIVERY, STORAGE, AND HANDLING	
A. Store materials and not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F.	
	1. Maintain containers in clean condition, free of foreign materials and residue.
	2. Remove rags and waste from storage areas daily.
1.5 PROJECT CONDITIONS	
A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg F.	
B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.	
1.6 EXTRA MATERIALS	
A. Furnish extra materials described below that are from same production run (batch mix) as materials applied and that are packaged for storage and identified with labels describing contents.	
	1. Quantity: Furnish an additional 1 gallon of each material and color applied.
PART 2 - PRODUCTS	
2.1 MANUFACTURERS	
A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:	
	1. Benjamin Moore & Co.
	2. PPG Architectural Finishes, Inc.
	3. Sherwin-Williams Company (The).
2.2 PAINT, GENERAL	
A. Material Compatibility:	
	1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
	2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
B. Colors: As selected by Architect from manufacturer's full range.	
2.3 PRIMERS/SEALERS	
A. Interior Latex Primer/Sealer: MPI #50.	
B. Wood-Knot Sealer: Sealer recommended in writing by topcoat manufacturer for use in paint systems indicated.	
2.4 METAL PRIMERS	
A. Alkyd Anticorrosive Metal Primer: MPI #79.	
B. Cementitious Galvanized-Metal Primer: MPI #26.	
2.5 WOOD PRIMERS	
A. Interior Latex-Based Wood Primer: MPI #39.	
2.6 LATEX PAINTS	
A. Interior Latex (Eggshell): MPI #52 (Gloss Level 3).	
2.7 ALKYD PAINTS	
A. Interior Alkyd (Eggshell): MPI #51 (Gloss Level 3).	
2.8 TEXTURED COATING	
A. Latex Stucco and Masonry Textured Coating: MPI #42.	
PART 3 - EXECUTION	
3.1 EXAMINATION	
A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of work.	
B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:	
	1. Masonry (Clay): 12 percent.
	2. Wood: 15 percent.
	3. Gypsum Board: 12 percent.
	4. Plaster: 12 percent.
C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.	
D. Begin coating application only after unsatisfactory conditions have been corrected and surfaces are dry.	
	1. Beginning coating application constitutes Contractor's acceptance of substrates and conditions.
3.2 PREPARATION AND APPLICATION	
A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates indicated.	
B. Clean substrates of substances that could impair bond of paints, including dirt, oil, grease, and incompatible paints and encapsulants.	
	1. Remove incompatible primers and reprime substrate with compatible primers as required to produce paint systems indicated.
C. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.	
D. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.	
E. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.	
3.3 INTERIOR PAINTING SCHEDULE	
A. Clay-Masonry Substrates:	
	1. Latex System: MPI INT 4.1A.
	a. Prime Coat: Interior latex matching topcoat.
	b. Intermediate Coat: Interior latex matching topcoat.
	c. Topcoat: Interior latex (eggshell).
B. Steel Substrates:	
	1. Alkyd System: MPI INT 5.1E.
	a. First Coat: Oil-Based Enamel.
	b. Second Coat: Oil-Based Enamel (semi-gloss).
	c. Third Coat: Oil-Based Enamel (semi-gloss).
C. Metal Door Frames:	
	a. Prime Coat: Alkyd anticorrosive metal primer.
	b. Intermediate Coat: Interior alkyd matching topcoat.
	c. Topcoat: Interior alkyd (eggshell).
D. Gypsum Board Substrates:	
	1. Latex System: MPI INT 9.2A.
	a. Prime Coat: Interior latex primer/sealer.
	b. Intermediate Coat: Interior latex matching topcoat.
	c. Topcoat: Interior latex (eggshell).
E. Dressed Lumber and Wood Panel Substrates for Opaque Finish: Including finish carpentry and flush wood doors.	
	1. Latex System: MPI INT 9.2A.
	a. Prime Coat: Interior latex primer/sealer.
	b. Intermediate Coat: Interior latex matching topcoat.
	c. Topcoat: Interior latex (eggshell).
F. Plaster Substrates:	
	1. Latex System: MPI INT 9.2A.
	a. Prime Coat: Interior latex primer/sealer.
	b. Intermediate Coat: Interior latex matching topcoat.
	c. Topcoat: Interior latex (eggshell).

SECTION 102800	TOILET ACCESSORIES
PART 1 - GENERAL	
1.1 SUMMARY	
A. Section Includes:	1. Restroom accessories.
	2. Identification/signage guards.
1.2 ACTION SUBMITTALS	
A. Product Data: For each type of product indicated.	
B. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.	
	1. Identify locations using room designations indicated.
	2. Identify products using designations indicated.
1.3 INFORMATIONAL SUBMITTALS	
A. Warranty: Sample of special warranty.	
1.4 CLOSEOUT SUBMITTALS	
A. Maintenance data.	
1.5 WARRANTY	
A. Special Mirror Warranty: Manufacturer's standard form in which manufacturer agrees to replace mirrors that develop visible silver spoilage defects and that fail in materials or workmanship within specified warranty period.	
	1. Warranty Period: 15 years from date of Substantial Completion.
PART 2 - PRODUCTS	
2.1 RESTROOM ACCESSORIES	
A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:	
	1. A & J Washroom Accessories, Inc.
	2. American Specialties, Inc.
	3. Bobrick Washroom Equipment, Inc.
	4. Bradley Corporation.
	5. GAMCO Specialty Accessories; a division of Bobrick Washroom Equipment, Inc.
	6. Tubular Specialties Manufacturing, Inc.
B. Toilet Tissue (Roll) Dispenser, Stainless Steel, Surface-Mounted:	
	1. Basis-of-Design Product: Bobrick B-274
	2. Provide where indicated.
C. Paper Towel Dispenser / Waste Receptacle, Recessed:	
	1. Basis-of-Design Product: Bobrick B-262
	2. Provide where indicated.
D. Grab Bars at all toilets:	
	1. Basis-of-Design Products:
	a. Side, Fixed: Bobrick B-6806.99 x 42 inches (horizontal)
	b. Rear, Fixed: Bobrick B-6806.99 x 42 inches (horizontal)
	c. Side, Fixed: Bobrick B-6806.99 x 18 inches (vertical)
E. Mirror Unit:	
	1. Frameless mirror, 18 wide x 60 inches high.
	2. Provide at all toilet rooms.
F. Soap Dispenser, Stainless steel, Surface-Mounted:	
	1. Basis of Design Product: Bobrick B-2111
	2. Provide where indicated.
2.2 UNDERLAVATORY GUARDS	
A. Basis-of-Design Product: The design for accessories is based on products indicated. Subject to compliance with requirements, provide the named product or a comparable product by one of the following:	
	1. Plumberex Specialty Products, Inc.
	2. TCI Products.
	3. Trubro, Inc.
B. Underlatory Guard:	
	1. Basis-of-Design Product: Trubro: Lav-Guard Kit for P-trap and hot 7 cold supply valves, Color: White.
	2. Provide at all hand-capi accessible lavatories.
2.3 FABRICATION	
A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.	
B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.	
PART 3 - EXECUTION	
3.1 INSTALLATION	
A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.	
B. Grab Bars: Install to withstand a downward load of at least 250 lbf, when tested according to method in ASTM F 446.	

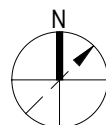
Suffield Public Schools

Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD WEST SUFFIELD, CT 06093

CONSULTANTS

KEY PLAN



PROJECT DATA

PROJECT NUMBER	20016
CURRENT SUBMISSION DATE	6.01.20
DRAWN	AEO
CHECKED	CAB
SCALE	1/2" = 1'-0"
FILE REFERENCE	C:\Users\AEO\Documents\20016-Suffield Spaulding School-CENTRAL-2020_AEO.rvt

HISTORY OF SUBMISSIONS

No.	Date	Description

FOR CONSTRUCTION

SHEET TITLE

SPECIFICATIONS

A8.02.

Suffield
Public
Schools

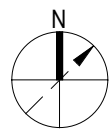
Ward Spaulding School
Preschool Classroom
Renovations

945 MOUNTAIN RD
WEST SUFFIELD, CT 06093

CONSULTANTS



KEY PLAN



PROJECT DATA

PROJECT NUMBER 20016
CURRENT SUBMISSION DATE 06.01.20
DRAWN RJ
CHECKED RHR
SCALE As indicated
FILE REFERENCE BIM 360://20-121 Spaulding School/MEP_20-121 Spaulding School.rvt

HISTORY OF SUBMISSIONS

No.	Date	Description

FOR CONSTRUCTION

SHEET TITLE

PLUMBING LEGEND AND
GENERAL NOTES

PLUMBING GENERAL NOTES

1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
2. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED PLUMBING SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
3. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TOP DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
6. EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS. WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL VALVES AND DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
7. WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
8. THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY PIPING, FITTINGS, TRANSITIONS, OFFSETS, ETC. AS REQUIRED TO INSTALL PIPING, EQUIPMENT, MAINTAINING PROPER CLEARANCES AND TO AVOID ANY CONFLICTS WITH OTHER TRADES, AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
9. DO NOT INSTALL ANY PIPING OVER ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, OR THROUGH ELECTRICAL ROOMS, DATA ROOMS, ELEVATOR MACHINE ROOM, STAIRWELL OR STAIRWELL WALLS THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF ELECTRICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
10. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW INDIVIDUAL BRANCH PIPING TO EACH PLUMBING FIXTURE; ONLY THE BRANCH PIPING TO GROUPS OF FIXTURES IS INDICATED. EACH AND EVERY FIXTURE SHALL BE PROPERLY PIPED TO WATER, WASTE, AND VENT PIPING SYSTEMS. REFER TO THE PLUMBING SCHEDULES FOR INDIVIDUAL PIPE SIZES TO EACH FIXTURE.
11. PROVIDE PROPER PIPING SYSTEM IDENTIFICATION LABELS, SLOPES FOR DRAIN PIPING, CLEANOUTS, HANGERS, ETC. IN ACCORDANCE WITH THE PLUMBING CODE.
12. REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES OR EQUIPMENT. ALL SUCH EQUIPMENT AND EQUIPMENT COLORS AND FINISHES SHALL BE COORDINATED WITH THE ARCHITECT. MOUNTING HEIGHTS SHALL BE APPROVED BY THE ARCHITECT.
13. INSTALL WATER HAMMER ARRESTORS (WHA) AT ALL QUICK CLOSING VALVES (FLUSH VALVES, SOLENOID VALVES, ETC.); SIZE SHALL BE BASED ON FIXTURE UNITS PER PDI STANDARDS AND INSTALLED PER MANUFACTURER'S RECOMMENDATION.
14. ALL PIPING, DRAINS, STRAINERS, FAUCETS, FAUCET AERATORS, FILTERS, ETC. SHALL BE THOROUGHLY CLEANED AND FLUSHED IMMEDIATELY BEFORE PROJECT COMPLETION. PROVIDE CERTIFICATION ON CONTRACTOR'S LETTER HEAD THAT THIS WORK HAS BEEN COMPLETED.
15. DOMESTIC WATER DROPS AND RISERS INSTALLED IN EXTERIOR WALLS SHALL BE INSTALLED ON THE WARM SIDE OF INSULATION AND THE LOCATION SHALL BE MADE INFILTRATION FREE.

PLUMBING SYMBOLS

	COLD WATER
	HOT WATER
	HOT WATER RECIRCULATING
	VENT
	SOIL OR WASTE PIPE
	FLOOR DRAIN

FITTINGS AND VALVES

	BALL VALVE
	TAKEOFF FROM TOP OF MAIN PIPE
	TAKEOFF FROM BOTTOM OF MAIN PIPE
	PIPE ELBOW UP OR PIPE TEE UP
	PIPE ELBOW DOWN
	PIPE TEE DOWN
	WALL CLEANOUT OR BLIND FLANGE
	FLOOR CLEANOUT
	"P" TRAP
	WATER HAMMER ARRESTOR

Suffield

Public

Schools

Ward Spaulding School

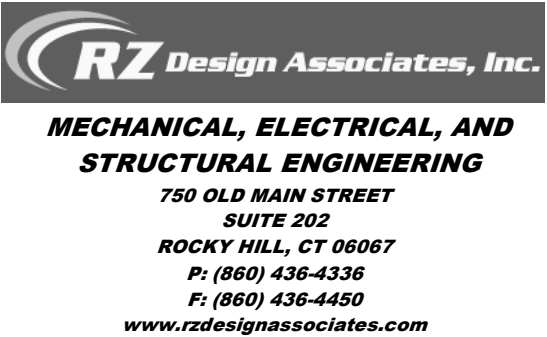
Preschool Classroom

Renovations

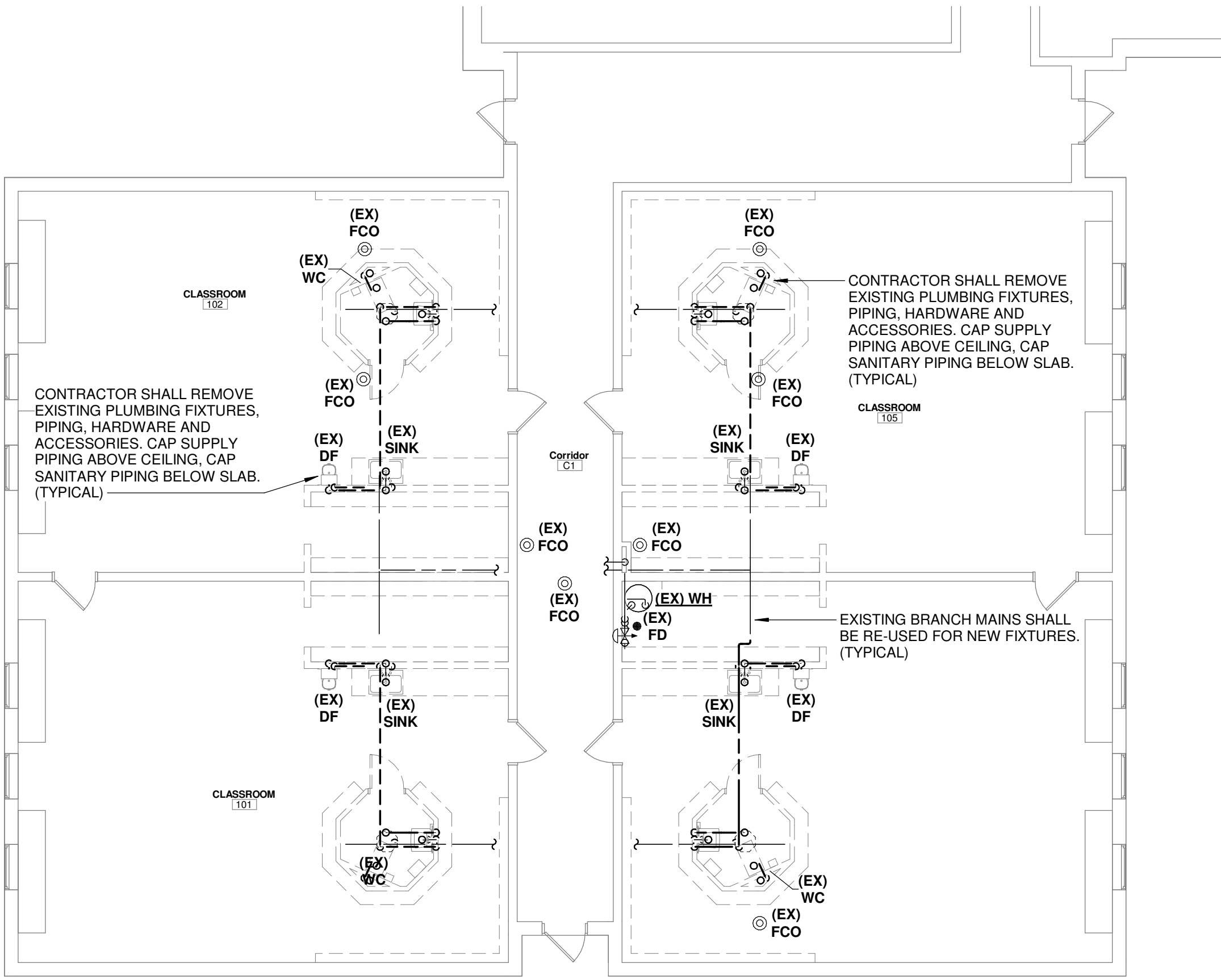
945 MOUNTAIN RD

WEST SUFFIELD, CT 06093

CONSULTANTS



KEY PLAN



1 FIRST FLOOR PLUMBING DEMOLITION PLAN

1/8" = 1'-0"

PROJECT DATA

PROJECT NUMBER20016

CURRENT SUBMISSION DATE06.01.20

DRAWN RJ

CHECKED RHR

SCALE 1/8" = 1'-0"

FILE REFERENCE BIM 360://20-121 Spaulding School/MEP_20-121 Spaulding School.rvt

HISTORY OF SUBMISSIONS

No.	Date	Description

FOR CONSTRUCTION

SHEET TITLE

PLUMBING DEMOLITION

PLAN

Suffield
Public
Schools

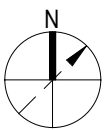
Ward Spaulding School
Preschool Classroom
Renovations

945 MOUNTAIN RD
WEST SUFFIELD, CT 06093

CONSULTANTS



KEY PLAN



PROJECT DATA

PROJECT NUMBER	20016
CURRENT SUBMISSION DATE	06.01.20
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HISTORY OF SUBMISSIONS

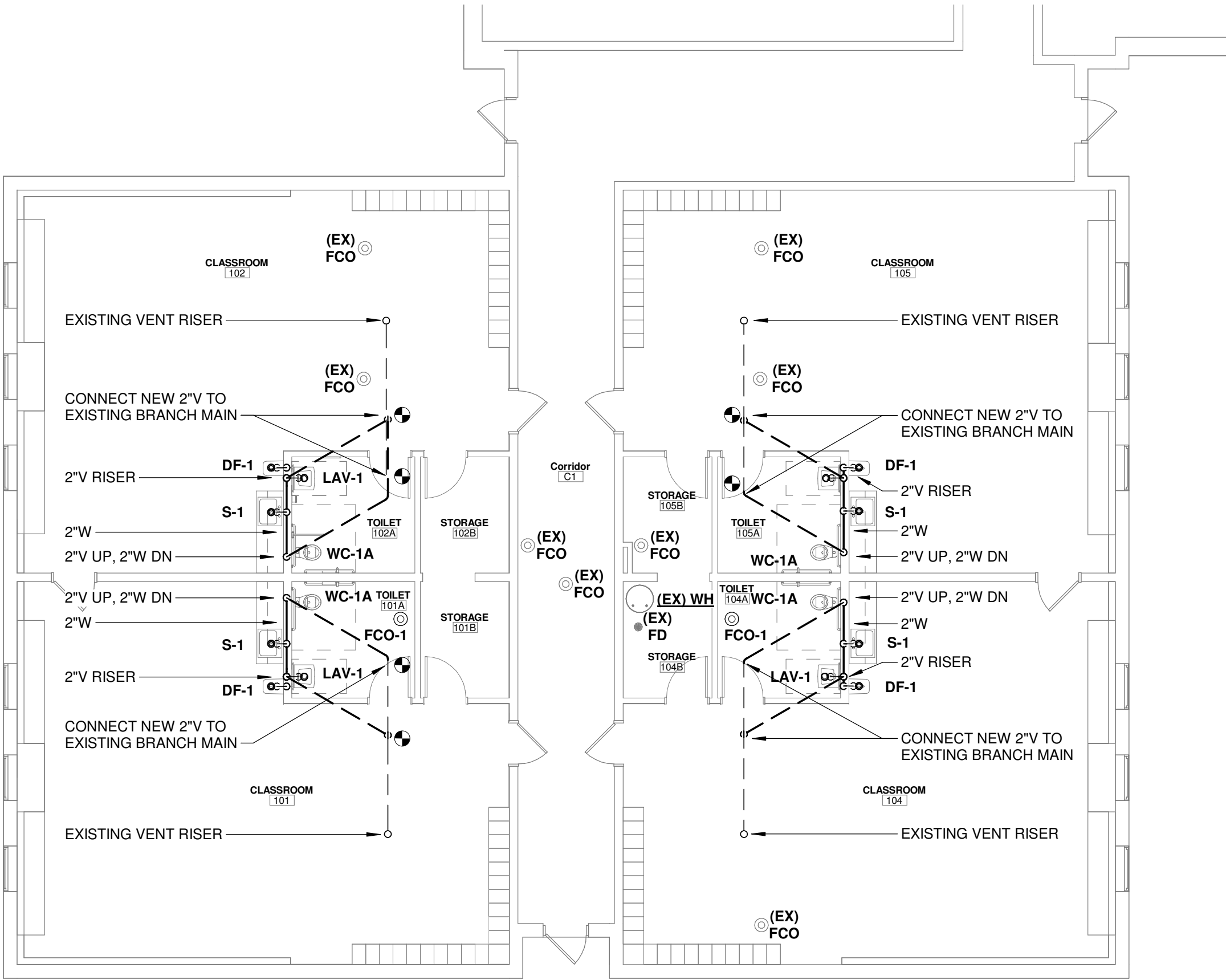
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FOR CONSTRUCTION

SHEET TITLE

PLUMBING PLANS

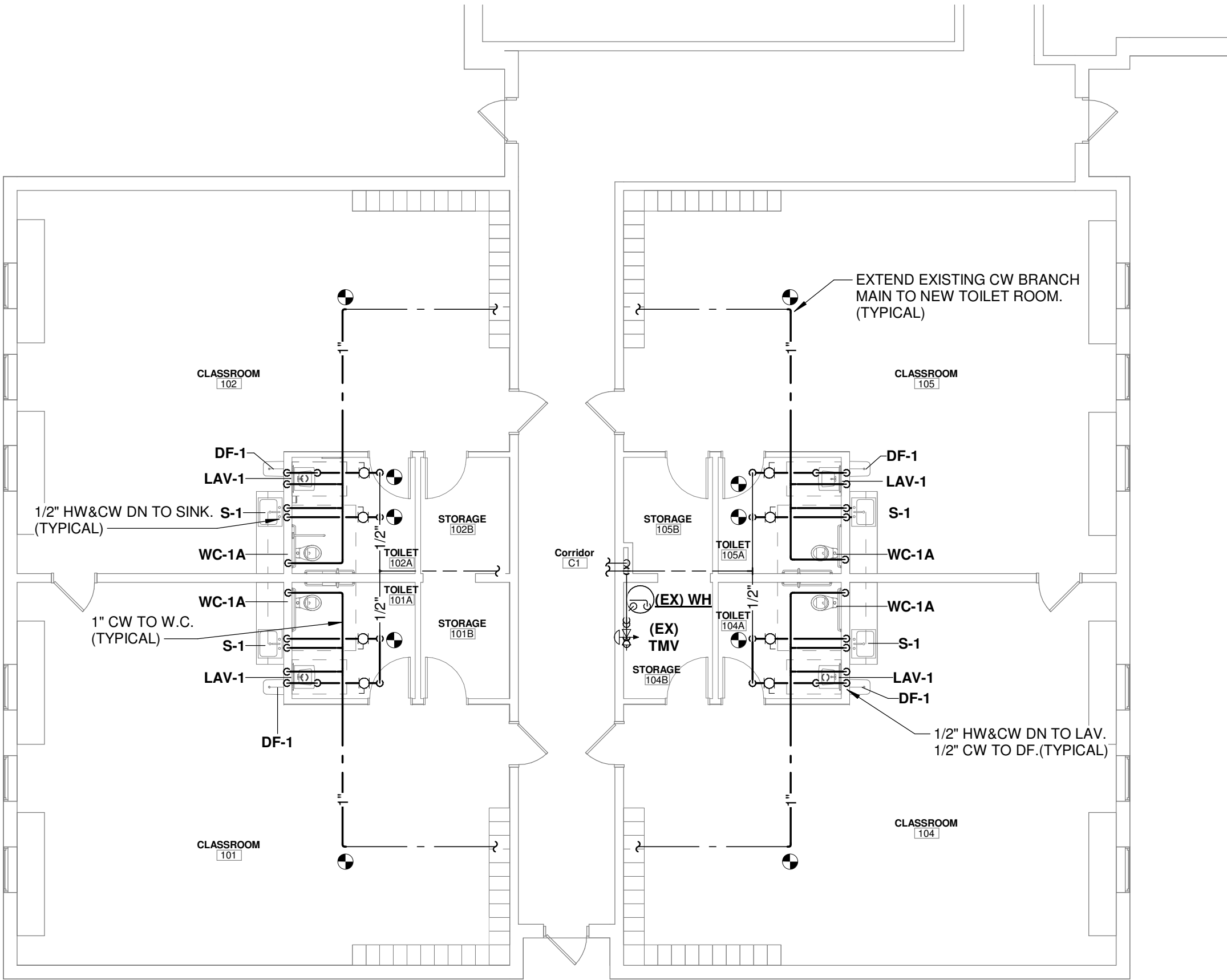
P2.01.



2 FIRST FLOOR DRAINAGE PLAN
1/8" = 1'-0"

NOTES:

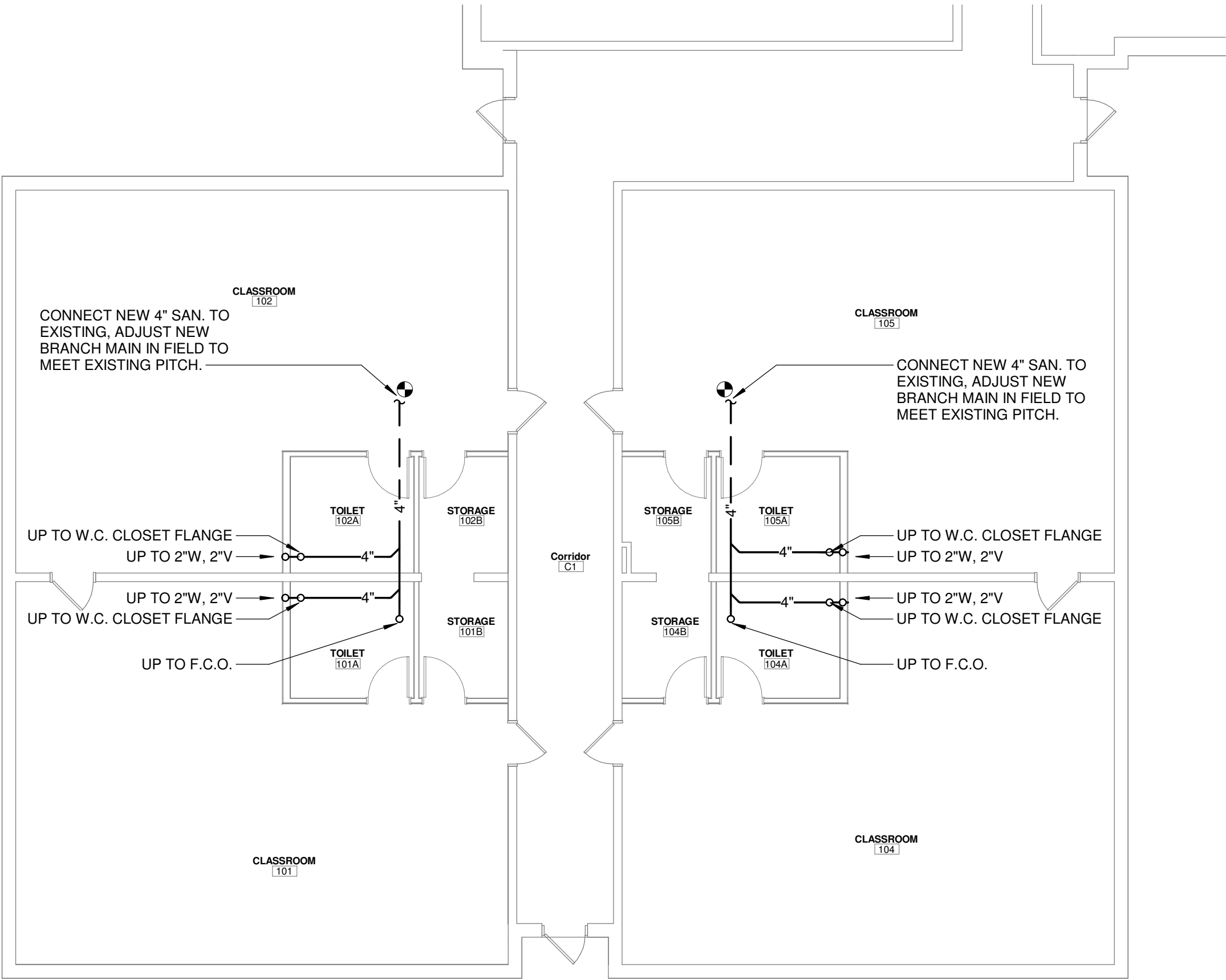
1. EXISTING PIPING IS SHOWN SCHEMATICALLY, CONTRACTOR SHALL VERIFY ALL EXISTING PLUMBING PIPING ROUTING, SIZES AND SLOPES PRIOR TO START OF WORK.



3 FIRST FLOOR PLUMBING SUPPLY PLAN
1/8" = 1'-0"

NOTES:

1. EXISTING PIPING IS SHOWN SCHEMATICALLY, CONTRACTOR SHALL VERIFY ALL EXISTING PLUMBING PIPING ROUTING, SIZES AND SLOPES PRIOR TO START OF WORK.



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Ward Spaulding School
Preschool Classroom
Renovations

945 MOUNTAIN RD
WEST SUFFIELD, CT 06093

CONSULTANTS



KEY PLAN

PROJECT DATA

PROJECT NUMBER	20016
CURRENT SUBMISSION DATE	06.01.20
DRAWN	RJ
CHECKED	RHR
SCALE	NTS
FILE REFERENCE	BIM 360://20-121 Spaulding School/MEP_20-121 Spaulding School.rvt

HISTORY OF SUBMISSIONS

No.	Date	Description

FOR CONSTRUCTION

SHEET TITLE

SCHEDULES & ISOMETRIC
DIAGRAM

PLUMBING FIXTURE SCHEDULE

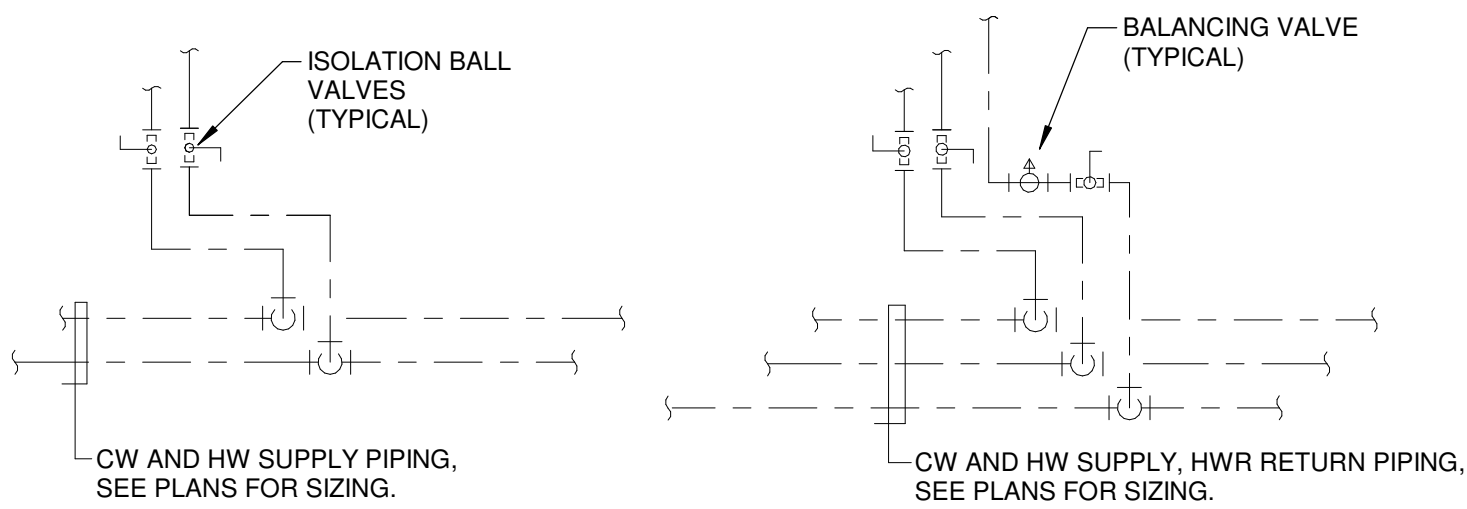
GENERAL NOTES:

PIPE SIZES SHOWN ARE FOR SUPPLY AND DRAINAGE ONLY. PROVIDE SUPPLIES WITH SCREWDRIVER STOPS, WALL ESCUTCHEON, 17-GAUGE SEMICAST "P" TRAPS WITH CLEANOUT PLUGS, PLUMBING FIXTURE SUPPORTS AND NECESSARY FITTINGS TO MAKE FINAL CONNETION. REFER TO SPECIFICATIONS FOR EQUIVALENTS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING ELEVATION OF PLUMBING FIXTURES. CLEARANCE BELOW SINKS AND LAVATORIES AND OFFSET DRAIN LOCATIONS. OFFSET DRAINS SHALL BE OFFSET LEFT REAR OR OFFSET RIGHT REAR. COORDINATE MOUNTING HEIGHTS FOR CHILDREN AND ADULT FIXTURES WITH ARCHITECTURAL DRAWINGS.

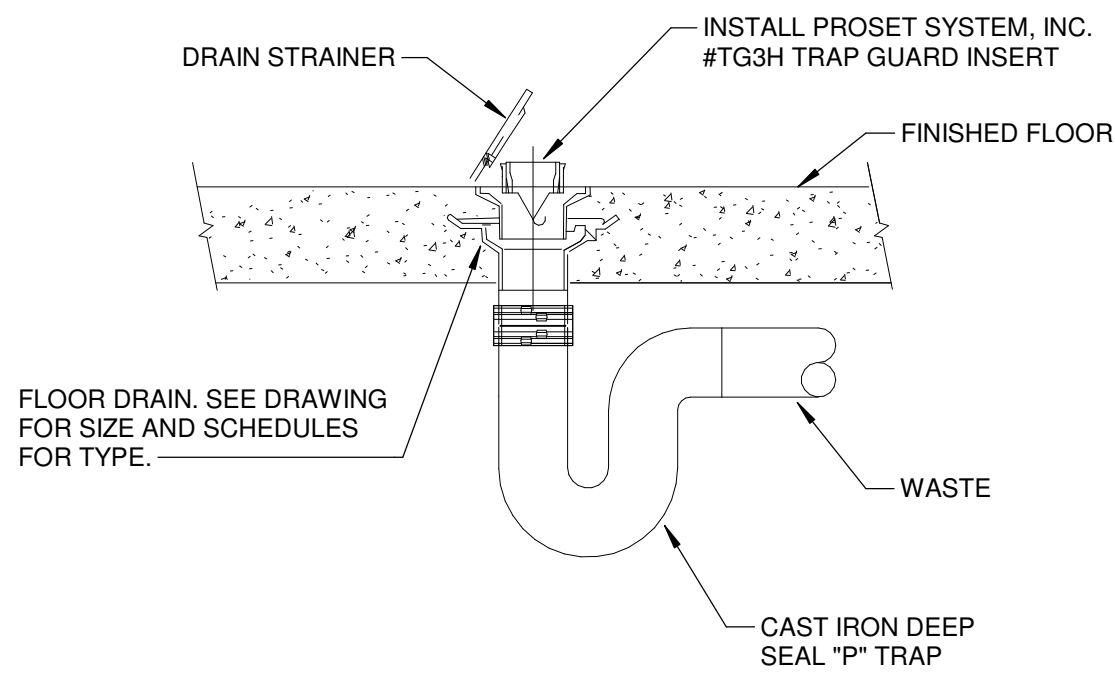
TAG	TYPE	ADA	COLD	HOT	SAN	VENT	DESCRIPTION	REMARKS
DF-1	ELECTRIC WATER COOLER	Yes	1/2"		2"	1 1/2"	ELKAY SOFT SIDES SINGLE NON-FILTERED, NON-REFRIGERATED DRINKING FOUNTAIN MODEL# EDFP210C.	REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT
LAV-1	LAVATORY	Yes	1/2"	1/2"	2"	1 1/2"	AMERICAN STANDARD "LUCERNE" WALL HUNG BARRIER FREE LAVATORY, MODEL# 0355.012 FOR WALL HANGER (INCLUDED) OR CONCEALED ARM SUPPORT, 4" CENTERS. PROVIDE CHICAGO TOUCHLESS FAUCET MODEL# EQ-A12A-11ABCP BATTERY OPERATED, SENSOR FAUCET, 4" CENETERS, 0.5 GPM, WATTS HYDRO GUARD LFE480 MIXING VALVE, TAIL PIECE, SHUT OFFS AND HARDWARE	REFER TO ARCHITECTURAL FOR MOUNTING HEIGHT
S-1	HAND SINK	Yes	1/2"	1/2"	2"	1 1/2"	ELKAY "LUSTERTONE CLASSIC STAINLESS STEEL" SINGLE BOWL, 19 1/2"x22x6 1/2" DROP IN SINK WITH PERFECT DRAIN MODEL# LRAD202265PD, SINGLE HOLE, PROVIDE CHICAGO FAUCET TOUCHLESS BATTERY OPERATED FAUCET MODEL# 116.877.AB.1, 0.5 GPM.	
WC-1A	WATER CLOSET	Yes	1"		4"	2"	AMERICAN STANDARD "BABY DEVORO" FLO WISE FLOOR MOUNTED TOILET MODEL#2282.001 WITH SEAT MODEL# 5001G.055. PROVIDE SLAON "G2" BATTERY OPERATED SENSOR FLUSHOMETER MODEL# G2 8113-1.28, 1.28 GPF, SHUT-OFF, HARDWARE.	

PLUMBING FIXTURE SCHEDULE

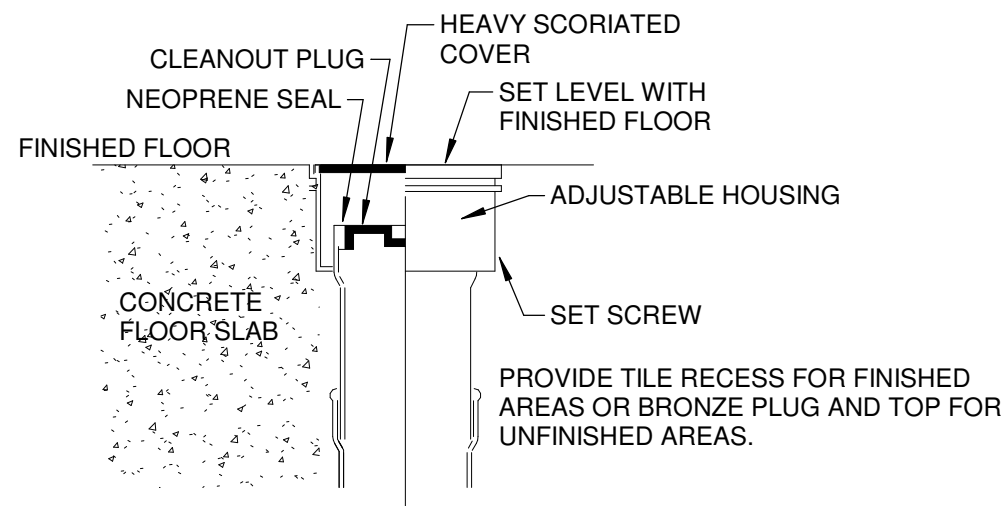
TYPE	SPECIALTY ITEM	MANUFACTURER	MODEL	DESCRIPTION	REMARKS
FCO-1	FLOOR CLEANOUT	WATTS	CO12	3" PVC ADJUSTABLE FLOOR CLEANOUT WITH BRONZE PLUG.	



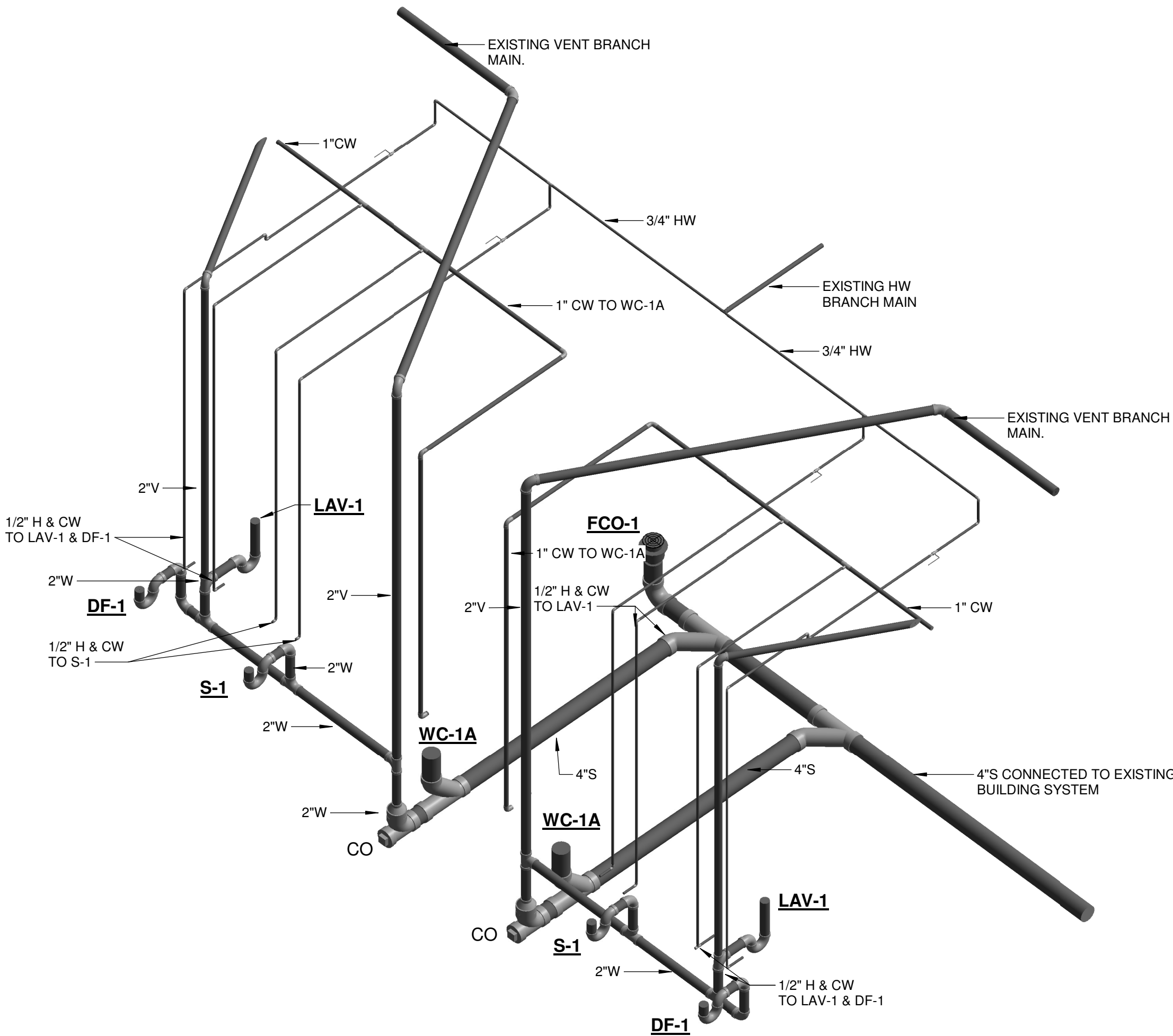
4 TYPICAL BRANCH PIPING DETAIL
NTS



3 TYPICAL FLOOR DRAIN WITH TRAP GUARD INSERT DETAIL
NTS



2 INTERIOR FLOOR CLEANOUT DETAIL
NTS



1 TYPICAL TOILET GROUP ISOMETRIC

GENERAL

1. IT IS THE INTENT OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.
2. WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE FOLLOWING SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
3. ITEMS AND SERVICES NOT SHOWN ON THE DRAWINGS OR STATED IN THE SPECIFICATIONS, BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.
4. DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED. DRAWINGS INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR.
5. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED.
6. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES, EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION.
7. THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED AND PAY ALL APPLICABLE FEES. INCLUDED SHALL BE ANY UTILITY COST ASSOCIATED WITH ANY NEW OR MODIFIED SERVICES. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.

CONNECTICUT CODES AND STANDARDS:
 - INTERNATIONAL BUILDING CODE
 - INTERNATIONAL ENERGY CONSERVATION CODE WITH AMENDMENTS
 - INTERNATIONAL EXISTING BUILDING CODE
 - INTERNATIONAL MECHANICAL CODE
 - INTERNATIONAL PLUMBING CODE
 - NATIONAL ELECTRICAL CODE (NFPA 70)
 - ICC/ANSI A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
9. WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, AND ADMINISTRATIVE TASKS/DUTIES REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN.
10. STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

SEISMIC RESTRAINTS

1. THE PROJECT IS IN A SEISMIC ZONE AND ALL WORK SHALL BE INSTALLED, SUPPORTED, AND SEISMICALLY RESTRAINED IN ACCORDANCE WITH CURRENT SEISMIC REQUIREMENTS.

COORDINATION

1. CONTRACTOR IS REQUIRED TO OBTAIN COMPLETE SETS OF THE CONTRACT DOCUMENTS FOR COORDINATION WITH ALL OTHER TRADES.

SHOP DRAWINGS

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER INITIAL REVIEW AND APPROVAL. REVISED IF REQUIRED AND RESUBMITTED AS PER ENGINEER'S COMMENTS PRIOR TO CONSTRUCTION.
2. ACCEPTANCE OF DEVIATIONS OR SUBSTITUTIONS FROM BASE SPECIFIED ITEMS OR EQUIPMENT SHALL BE AT THE ENGINEERS DISCRETION. ANY CHANGES REQUIRED FOR ACCOMMODATION SHALL BE AT NO ADDITIONAL COST.

OWNER'S MANUAL AND AS-BUILT DRAWINGS

1. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE AN OWNER'S MANUAL WITH AS-BUILT DRAWINGS REFLECTING INSTALLED CONDITIONS.
2. THE OWNER'S MANUAL SHALL CONSIST OF ALL DOCUMENTATION PROVIDED AS SHOP DRAWINGS, MANUALS PACKED WITH EQUIPMENT AND COMPLETE PARTS BREAKDOWN WITH PART NUMBERS AND DIAGRAMS. THE OWNER'S MANUALS SHALL BE IN A THREE RING BINDER. PROVIDE NAMES AND PHONE NUMBERS OF SUPPLY HOUSES WHERE PARTS MAY BE PURCHASED.
3. AS-BUILT DRAWINGS SHALL CONSIST OF FIELD MARK-UPS TO THE CONSTRUCTION DRAWINGS AND INCLUDE ANY ADDITIONAL DETAILS TO CLEARLY REFLECT INSTALLED CONDITIONS. ANY ISSUED OR SUPPLEMENTAL SKETCHES OR DIRECTIVES SHALL BE INCORPORATED INTO THE FINAL CONSTRUCTION MARK-UPS.
4. CONTRACTOR SHALL MAINTAIN, ON-SITE, A FIELD MARK-UP SET OF DOCUMENTS WHICH SHALL BE KEPT CURRENT WITH ANY CHANGES FROM THE ORIGINAL CONTRACT DOCUMENTS. THESE MARK-UPS ARE TO BE PROVIDED AS AS-BUILT DRAWINGS FOR COMPARISONS.

BASES, HANGERS AND SUPPORTS

1. THE CONTRACTOR SHALL PROVIDE, OR CAUSE TO BE PROVIDED BY ANOTHER CONTRACTOR, ALL REQUIRED BASES AND SUPPORTS FOR PIPING AND EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS.
2. PROVIDE ADJUSTABLE CLEVIS HANGERS FOR ALL SINGLE RUN PIPING. WHERE REQUIRED, OVERSIZE TO ACCOMMODATE INSULATION TO PASS THROUGH. PROVIDE INSULATION SHIELDS. WHERE POSSIBLE, GROUP PIPING TO ALLOW TRAPEZE HANGERS TO BE USED.
3. PROVIDE ALL ANCHORS, INSERTS AND BEAM CLAMPS REQUIRED FOR HANGERS AND SUPPORTS. IF ADDITIONAL STRUCTURAL MEMBERS OR SUPPORTS ARE REQUIRED, THE CONTRACTOR IS TO COORDINATE WITH THE STRUCTURAL CONTRACTOR FOR PROVISION OF THESE MEMBERS. ALL PIPING AND EQUIPMENT IS TO BE SECURELY FASTENED TO THE BUILDING STRUCTURE IN AN ACCEPTABLE MANNER.
4. ALL PIPING PASSING THROUGH WALLS AND FLOORS SHALL BE SLEEVED. THE SLEEVES SHALL HAVE AN INSIDE DIAMETER 1" LARGER THAN THE PIPE AND INSULATION, IF INSULATED. INSULATION SHALL PASS CONTINUOUS THROUGH THE SLEEVE.

PIPE SEALS AND FIRE-STOPS

1. SEAL ALL PIPING PASSING THROUGH FIRE AND/OR SMOKE RATED PARTITIONS, WALLS AND FLOORS WITH A UL LISTED, APPROVED AND TESTED FIRE AND/OR SMOKE SEALING MATERIAL EQUIVALENT TO THE RATING OF THE WALL, PARTITION OR FLOOR. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR COMPATIBILITY WITH WALL AND FLOOR CONSTRUCTION.
2. FOR INTERIOR PARTITIONS, WALLS AND FLOORS, SLEEVES SIZED TO ALLOW INSULATION TO PASS THROUGH CONTINUOUS WITH A MAXIMUM 1" ANNULAR SPACE BETWEEN THE INSULATION AND SLEEVE. SLEEVES TO BE CUT SMOOTH AND INSTALLED FLUSH WITH FINISHED WALLS AND 2" ABOVE FINISHED FLOORS. FILL THE ANNULAR SPACE WITH UL SEALING MATERIAL.

EQUIPMENT ACCESSIBILITY

1. LOCATE ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULLY ACCESSIBLE POSITION WITH ADEQUATE CLEARANCES TO PROVIDE SERVICE OR REPAIR.
2. ACCESS DOORS OR PANELS IN WALLS, CEILINGS OR FLOORS SHALL BE FIELD COORDINATED AND INSTALLED FOR ACCESS TO CONCEALED VALVES, EQUIPMENT OR DEVICES.

CLEANING AND PROTECTION AGAINST FOREIGN MATTER

1. THE JOBSITE SHALL BE KEPT CLEAN AT ALL TIMES. CAP EXPOSED PIPING AND COVER FLOOR DRAINS TO INSURE ADEQUATE PROTECTION AGAINST THE ENTRANCE OF FOREIGN MATTER.
2. AT COMPLETION OF THE PROJECT, ALL EQUIPMENT, FIXTURES, ETC. SHALL BE CLEANED.

OPERATING INSTRUCTIONS

1. UPON THE COMPLETION OF ALL WORK, TESTING AND ADJUSTING THE CONTRACTOR SHALL FURNISH PERSONNEL TO INSTRUCT THE OWNER'S REPRESENTATIVES IN THE OPERATION, ADJUSTMENT AND MAINTENANCE OF THE EQUIPMENT AND SYSTEMS FURNISHED.

GUARANTEES

1. IN ADDITION TO THE CONTRACTOR'S GUARANTEE, PROVIDE ALL APPLICABLE EXTENDED GUARANTEES FOR EQUIPMENT.

PLUMBING PIPING INSULATION

1. PROVIDE 1" GLASS FIBER INSULATION FOR ALL NEW COPPER PIPING (HOT AND COLD WATER), INCLUDES INSULATION FOR FITTINGS AND VALVES.
2. INSULATION TO BE AS MANUFACTURED BY KNAUF, MANVILLE, OWENS-CORNING OR CERTAIN-TEED.
3. INSULATION TO HAVE A "K" VALUE OF 0.24 AT 75°F, FLAME SPREAD/SMOKE OF 5/50, MAX. 850°F RATING, VAPOR BARRIER WHITE KRAFT PAPER WITH GLASS FIBER YARN BONDED TO ALUMINIZED FILM.
3. AT ALL FITTINGS AND VALVES PROVIDE PRE-MOLDED PVC JACKET BY ZESTON.
4. BEFORE INSTALLING INSULATION, ALL REQUIRED PIPING IS TO BE TESTED AND APPROVED.
5. INSULATION IS TO PASS CONTINUOUSLY THROUGH HANGERS, WALLS, SLEEVES AND OTHER PIPE PENETRATIONS.

PLUMBING PIPING

1. PIPING MATERIAL SHALL BE AS FOLLOWS:

A. SANITARY/WASTE PIPING ABOVE AND BELOW FLOOR SLAB - CAST IRON, HUBLESS, NEOPRENE GASKET, STAINLESS STEEL HEAVY DUTY CLAMP AND SHIELD COUPLING, CISPI 301.

B. VENT PIPING ABOVE AND BELOW FLOOR SLAB - CAST IRON, HUBLESS, NEOPRENE GASKET, STAINLESS STEEL HEAVY DUTY CLAMP AND SHIELD COUPLING, CISPI 301.

C. WATER PIPING - COPPER, TYPE L, ASTM B88, SOLDER OR PRESS CONNECTIONS.

D. BALL VALVES SHALL BE BRONZE, TWO PIECE, FULL PORT, EXTENDED LEVER HANDLE FOR INSULATION, CLASS 150-400 PSI WOG, AS MANUFACTURED BY MILWAUKEE, NIBCO OR APOLLO.
2. NO PIPING SHALL BE COVERED UNTIL TESTED AND APPROVED BY THE AUTHORITIES HAVING JURISDICTION.
3. INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS OR CONNECTED EQUIPMENT.
4. CONCEALED PIPING AND ACCESSORIES SHALL BE ARRANGED TO USE THE MINIMUM AMOUNT OF ACCESS DOORS AND PANELS.
5. PIPING SHALL BE RUN CONCEALED IN FURRED SPACES, CHASES, WALLS, ETC. CONTRACTOR SHALL OBTAIN PERMISSION TO RUN EXPOSED PIPING.
6. PROVIDE ISOLATION AND SHUT-OFF VALVES AT ALL BRANCH LINES AND EQUIPMENT.
7. PROVIDE LISTED AND APPROVED DIELECTRIC FITTINGS WHEN JOINING DISSIMILAR METALS.
8. RUN ALL SANITARY AND WASTE PIPING AT A MINIMUM OF 1/8" PER FOOT FOR PIPING. SLOPE VENT PIPING TO DRAIN.
9. PIPE HANGERS SHALL BE PLACED ADJACENT TO MOTOR DRIVEN EQUIPMENT.
10. HANGERS AND SUPPORTS SHALL BE AS FOLLOWS:

A. COPPER PIPING
 - 1/2" TO 1-1/4" AT MAXIMUM 6'-0" SPACING
 - 1-1/2" TO 3" AT MAXIMUM 10'-0" SPACING

B. CAST IRON PIPING
 - 1-1/2" TO 2" AT MAXIMUM 10'-0" SPACING
 - 2-1/2" AND ABOVE AT MAXIMUM 5'-0" SPACING
11. WATER PIPING IS TO BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH LOCAL AND STATE HEALTH REGULATIONS. AFTER FLUSHING AND DISINFECTING, THE WATER IS TO BE TESTED BY THE CONTRACTOR THROUGH AN INDEPENDENT LAB WITH A WRITTEN REPORT.
12. ALL NEW WATER, SANITARY, WASTE, AND VENT PIPING SHALL BE PRESSURE TESTED AS FOLLOWS:

A. SANITARY, WASTE, AND VENT PIPING - HYDROSTATIC TEST AT 10 FT HEAD FOR A MINIMUM 4 HOURS. SUBMIT WRITTEN/SIGNED TEST RESULTS.

B. WATER PIPING - HYDROSTATIC TEST AT 125 PSI OR 1-1/2 TIMES OPERATING PRESSURE (WHICHEVER IS GREATER) FOR A MINIMUM 4 HOURS WITH MAXIMUM LOSS OF 2 PSI. SUBMIT WRITTEN/SIGNED TEST RESULTS. AIR TESTING WILL NOT BE ACCEPTABLE.

PLUMBING PIPING SPECIALTIES

1. CLEANOUTS IN INTERIOR FINISHED FLOORS SHALL HAVE A CAST IRON BODY WITH ANCHOR FLANGE, THREADED TOP ASSEMBLY AND ROUND GASKETED SCORED COVER. FOR FINISHED FLOORS PROVIDE DEPRESSED COVER TO ACCEPT FLOOR FINISH.
2. WATER HAMMER ARRESTORS SHALL BE STAINLESS STEEL CONSTRUCTION, BELLOW TYPE, PRECHARGED. AIR CHAMBERS ARE NOT ACCEPTABLE. INSTALL WATER HAMMER ARRESTORS AT ALL QUICK CLOSING VALVES, ON HOT AND/OR COLD WATER SUPPLIES TO NEW INDIVIDUAL FIXTURES OR IN BANKS OF FIXTURES.

PLUMBING EQUIPMENT AND FIXTURES

1. ALL PLUMBING EQUIPMENT AND FIXTURES SHALL BE NEW, COMPLETE WITH ALL TRIM AS SPECIFIED. APPROVAL CERTIFICATION BY MASSACHUSETTS IS REQUIRED.
2. FOR ALL EQUIPMENT AND FIXTURES, INSTALL AS PER MANUFACTURER'S INSTRUCTIONS, AS REQUIRED BY CODE, AND IN COMPLIANCE WITH CONDITIONS FOR CERTIFICATION (IF ANY). RETAIN ALL INFORMATION, MANUALS AND PARTS DIAGRAMS PACKAGED WITH THE UNITS.
3. COORDINATE ALL RELATED ELECTRICAL WORK AND REQUIRED CONNECTIONS TO ACHIEVE AN OPERATIONAL SYSTEM. VERIFY THAT ELECTRICAL POWER HAS PROPER CHARACTERISTICS.
4. ALL EQUIPMENT SHALL BE UL TESTED AND APPROVED AND IF APPLICABLE SHALL HAVE NSF CERTIFICATION.
5. PLUMBING FIXTURES SHALL BE INSTALLED WITH TRIM, INCLUDING BUT NOT LIMITED TO, FAUCETS, CARRIERS, WATER SUPPLIES, SUPPLY STOPS, TRAPS, TAILPIECES, HARDWARE, HANGERS/SUPPORTS, AND FASTENING DEVICES.
6. PLUMBING FIXTURES AND TRIM SHALL BE OF THE MANUFACTURER LISTED ON THE DRAWINGS OR AN APPROVED EQUAL MEETING THE OPERATIONAL CHARACTERISTICS, FUNCTION, SIMILAR APPEARANCE AND QUALITY OF THE SPECIFIED ITEMS.
7. FOR ALL EXPOSED PIPING TO FIXTURES, PROVIDE CHROME PLATED PIPES, ESCUTCHEONS AT WALLS, SUPPLY TUBES AND SUPPLY STOPS. DRAIN PIPING SHALL BE MINIMUM 17 GA, CHROME PLATED CAST BRASS, P-TRAPS SHALL HAVE CLEANOUT PLUGS.
8. SEAL FIXTURES TO WALLS AND FLOOR WITH APPROVED SILICONE SEALANT, COLOR TO MATCH FIXTURE COLOR OR CLEAR.
9. UPON COMPLETION OF INSTALLATION OF PLUMBING EQUIPMENT AND FIXTURES, TEST TO DEMONSTRATE CAPABILITY AND COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND CODES. FOR ALL EQUIPMENT, REPAIR OR REPLACE ANY MALFUNCTIONING EQUIPMENT OR FIXTURES AND RETEST.
10. ADJUST WATER PRESSURES THROUGH VALVES OR STOPS TO OBTAIN PROPER FLOW RATES AND PRESSURES REQUIRED.
11. UPON COMPLETION OF INSTALLATION OF EQUIPMENT OR FIXTURES, THOROUGHLY CLEAN ALL EXPOSED SURFACES, TRIM AND PIPING, FLUSH STRAINERS AND VERIFY FINAL OPERATION.
12. PROVIDE ALL WARRANTIES AND GUARANTEES TO THE OWNER WITH ALL NAMES, ESTABLISHED DATES, AND ANY ADDITIONAL INFORMATION REQUIRED FOR ENFORCEMENT.

Suffield
Public
Schools

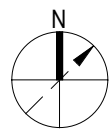
Ward Spaulding School
Preschool Classroom
Renovations

945 MOUNTAIN RD
WEST SUFFIELD, CT 06093

CONSULTANTS



KEY PLAN



PROJECT DATA

PROJECT NUMBER	20016
CURRENT SUBMISSION DATE	06.01.20
DRAWN	RJ
CHECKED	RHR
SCALE	1/8" = 1'-0"
FILE REFERENCE	BIM 360//20-121 Spaulding School/MEP_20-121 Spaulding School.rvt

HISTORY OF SUBMISSIONS

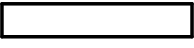

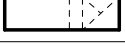
No.	Date	Description

FOR CONSTRUCTION

SHEET TITLE

PLUMBING
SPECIFICATIONS

P3.01.

HVAC SYMBOLS	
	RECTANGULAR, FLAT OVAL OR ROUND AIR DUCT
	EXHAUST AIR DUCT UP
	EXHAUST AIR DUCT DOWN

HVAC GENERAL NOTES
<p>1. ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.</p> <p>2. THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED HVAC SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.</p> <p>3. THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.</p> <p>4. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TOP DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.</p> <p>5. THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND PIPING. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND PIPING INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.</p> <p>6. WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).</p> <p>7. ALL SUPPLY RECTANGULAR 90° ELBOWS SHALL HAVE TURNING VANES.</p> <p>8. ALL TOILETS & BATHROOMS SHALL HAVE 3/4" UNDERCUT DOORS.</p>

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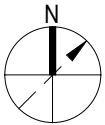
Ward Spaulding School
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Renovations

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CONSULTANTS



KEY PLAN



PROJECT DATA

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CURRENT SUBMISSION DATE	06.01.20
DRAWN	RJ
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SCALE	12" = 1'-0"
FILE REFERENCE	BIM 360://20-121 Spaulding School/MEP_20-121 Spaulding School.rvt

HISTORY OF SUBMISSIONS

No.	Date	Description

FOR CONSTRUCTION

SHEET TITLE

MECHANICAL
ABBREVIATIONS, GENERAL
NOTES AND SYMBOL LIST

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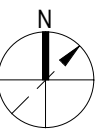
Ward Spaulding School
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KEY PLAN



PROJECT DATA

PROJECT NUMBER	20016
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SCALE	1/8" = 1'-0"
FILE REFERENCE	BIM 360://20-121 Spaulding School\MEP_20-121 Spaulding School.rvt

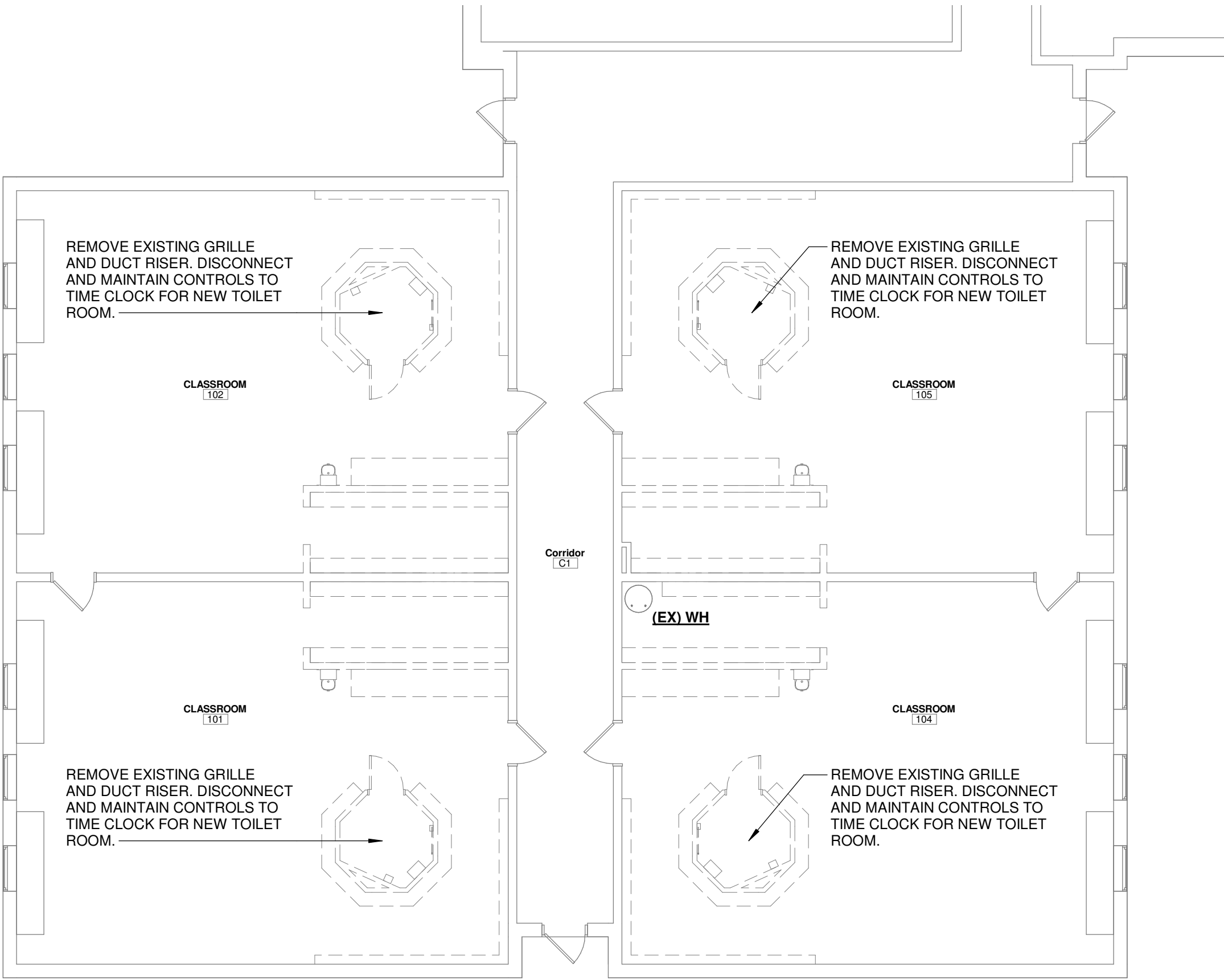
HISTORY OF SUBMISSIONS

No.	Date	Description

FOR CONSTRUCTION

SHEET TITLE

MECHANICAL DEMOLITION
PLAN



1 FIRST FLOOR DEMOLITION PLAN
1/8" = 1'-0"

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Ward Spaulding School
Preschool Classroom
Renovations

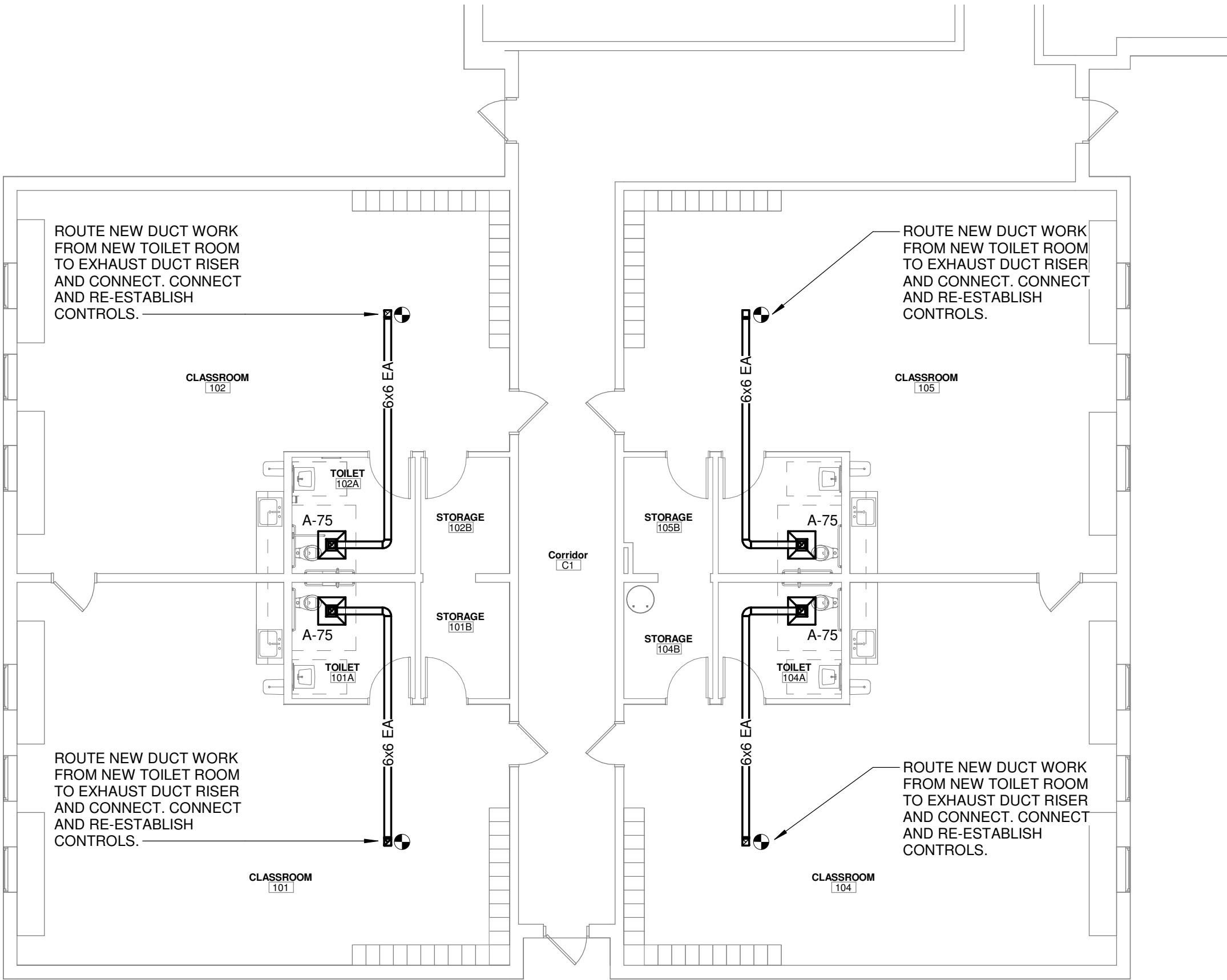
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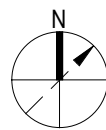


KEY PLAN

GRILLES, DIFFUSERS AND REGISTERS SCHEDULE					
(BASED ON PRICE)					
SEE ARCHITECTURAL DRAWINGS FOR CEILING TYPES AND CONSTRUCTION. SIZE AND CFM INDICATED ON MECHANICAL DRAWINGS					
A - MODEL 530 RETURN GRILLE, 45° FIXED LOUVERS, 3/4" BLADE SPACING, 24X24 MODULE SIZE, LAY-IN BORDER, STEEL CONSTRUCTION, WHITE FINISH.					
CEILING SUPPLY DIFFUSER TYPE A & A1		CEILING RETURN/EXHAUST DIFFUSER TYPE B & B1		FLEIXBLE DUCT SIZE	
CFM	NECK SIZE	CFM	NECK SIZE	CFM	NECK SIZE
0 - 100	6 X 6	0 - 100	6 X 6	0 - 45	4"Ø
101 - 225	9 X 9	101 - 150	8 X 8	50 - 70	5"Ø
226 - 400	12 X 12	151 - 250	10 X 10	71 - 100	6"Ø
401 - 625	15 X 15	251 - 350	12 X 12	101 - 150	8"Ø
626 - 900	18 X 18	351 - 500	14 X 14	151 - 225	9"Ø
		501 - 650	16 X 16	226 - 275	10"Ø
		651 - 800	18 X 18	276 - 400	12"Ø
		801 - 1200	22 X 22	401 - 500	14Ø
				501 - 700	16"Ø
				701 - 900	18"Ø
				901 - 1100	20"Ø
				1101 - 1300	22"Ø



1 FIRST FLOOR NEW WORK PLAN
1/8" = 1'-0"



PROJECT DATA

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SCALE	As indicated
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


















No.	Date	Description

FOR CONSTRUCTION

SHEET TITLE

HVAC PLANS AND
SCHEDULE

M3.01.

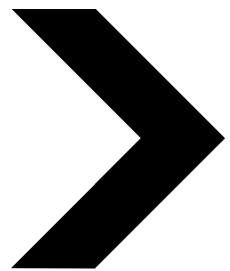
ELECTRICAL SYMBOL LIST	
NOTE: ALL MOUNTING HEIGHTS GIVEN ARE TO CENTERLINE OF DEVICE UNLESS NOTED OTHERWISE.	
SYMBOL	DESCRIPTION
	RECESSED 2'X4' LIGHT FIXTURE
	RECESSED 2'X2' LIGHT FIXTURE
	WALL MOUNTED LIGHT FIXTURE
	EMERGENCY BATTERY UNIT WITH TWO DIRECTIONAL HEADS - DUAL LITE MODEL #EZ-2
	SINGLE POLE TOGGLE SWITCH
	THREE WAY TOGGLE SWITCH
	WALL MOUNTED OCCUPANCY SENSOR
	CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR
	GROUNDING DUPLEX RECEPTACLE
	GROUNDING DUPLEX GFI RECEPTACLE
	FIRE ALARM VISUAL ONLY INDICATING UNIT - MOUNT AT 6'-6" A.F.F.
	FIRE ALARM VISUAL ONLY INDICATING UNIT - CEILING MOUNTED
	FIRE ALARM SPEAKER/VISUAL INDICATING UNIT - MOUNT AT 6'-6" A.F.F.
	FIRE ALARM SMOKE DETECTOR
	EMERGENCY "CALL-FOR-AID" BUZZER/LIGHT - LOCAL OUTPUT ONLY
	EMERGENCY "CALL-FOR-AID" SWITCH - WITH PULL CORD, COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECTURAL DRAWINGS.
	MOTOR
	BRANCH CIRCUIT WIRING
	BRANCH CIRCUIT FEEDER
ELECTRICAL LEGEND NOTES: 1. ALL SYMBOLS MAY NOT BE USED.	

ELECTRICAL GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE REGULATORY AGENCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE REQUIREMENTS OF THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED.
- THE INTENT OF THESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL AND ELECTRICAL SYSTEMS. THE SPECIFIED ELECTRICAL SYSTEM SHALL BE COMPLETE IN ALL RESPECTS: OPERATIONAL, TESTED, ADJUSTED, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY THE OWNER.
- THE TRADES SHALL OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS PROVIDED ON THE VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN THE BIDDING PACKAGE. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND INFORMATION SOURCE FOR CONSTRUCTION PURPOSES.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. COORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATION TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE CONTRACT AGREEMENT, AT NO ADDITIONAL COST. REFER TO DETAILS, SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- THE CONTRACTOR SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND CONDUITS. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND CONDUITS INSTALLATION WITH ALL THE TRADES BEFORE COMMENCING WORK.
- EQUIPMENT SHALL BE INSTALLED IN ACCESSIBLE LOCATIONS, WHEN EQUIPMENT MUST BE LOCATED ABOVE AN INACCESSIBLE CEILING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL BE PROVIDED. IF AN ACCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN WHICH IT IS TO BE INSTALLED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL DEVICES, REQUIRING ACCESS, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANCES.
- WHERE A CONFLICT OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. CARRY AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S).
- THIS CONTRACT SHALL INCLUDE ALL THE NECESSARY CONDUITS, FITTINGS, TRANSITIONS ETC. AS REQUIRED TO INSTALL CONDUITS AND EQUIPMENT, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING STRUCTURE. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS HE MAKES AS A RESULT OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES.
- DO NOT INSTALL ANY ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, BELOW PIPING OR THROUGH MECHANICAL ROOMS, THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE LOCATION OF MECHANICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY.
- ALL HOMERUNS SHALL BE 2#12, 1#12G., 3/4"C TO 20A-1P CIRCUIT BREAKER IN PANEL DESIGNATED UNLESS OTHERWISE NOTED.
- ALL 120 VAC (277 VAC) CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE INCREASED TO 2#10, 1#10G, 3/4" CONDUIT UNLESS OTHERWISE NOTED.
- ALL BRANCH CIRCUITS SHALL BE PROVIDED WITH SEPARATE NEUTRALS. USE OF COMMON NEUTRALS WILL NOT BE ALLOWED.
- FIELD VERIFY WITH MANUFACTURER'S PROVIDED EXACT ELECTRICAL CHARACTERISTICS AND CONNECTION REQUIREMENTS OF ALL OPERATIONAL EQUIPMENT PRIOR TO MAKING ELECTRICAL POWER CONNECTION. FURNISH AND INSTALL SAFETY DISCONNECT AS REQUIRED BY NEC.
- RECEPTACLES LOCATED WITHIN 6' OF A WATER SOURCE, OR OUTSIDE, AND WHERE REQUIRED BY CODE SHALL BE PROVIDED WITH GFCI PROTECTION, WHETHER INDICATED OR NOT.
- EXTERIOR RECEPTACLES SHALL BE PROVIDED WITH "CAST ALUMINUM" LOCKABLE COVERS RATED "WEATHER-PROOF WHILE IN USE". LOCKS SHALL BE KEYED ALIKE.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL REQUIRED SLEEVES AND FIRE STOP FOR CONDUITS AND CABLES PENETRATING FIRE RATED WALLS AND FLOORS.
- ELECTRICAL CONTRACTOR SHALL SEAL ALL CONDUITS PENETRATING EXTERIOR WALLS.
- ALL WIRING SHALL BE IN CONDUIT, UNLESS OTHERWISE INDICATED. CONDUITS SHALL BE RUN CONCEALED IN NEW AND ABOVE CEILINGS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE ALL LOCATIONS OF EQUIPMENT WITH DIV. 21, 22 AND 23 PRIOR TO ROUGHING OR INSTALLING OUTLETS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE OWNER, ALL LOCATIONS OF EQUIPMENT BEING FURNISHED BY THE OWNER PRIOR TO ROUGHING OR INSTALLING OUTLETS.
- REFER TO ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND EXACT LOCATION OF DEVICES PRIOR TO ROUGHING OR INSTALLATION OF OUTLETS.
- ELECTRICAL CONTRACTOR SHALL COORDINATE THE LOCATION OF DUCT SMOKE DETECTORS WITH DIV. 23. DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED BY DIV. 23.
- ALL FIRE ALARM DEVICES LOCATED ON BUILDING EXTERIOR SHALL BE WEATHERPROOF RATED.
- CONDUITS AND/OR WIRING SHALL NOT PENETRATE STAIR ENCLOSURES UNLESS SPECIFICALLY SERVING EQUIPMENT OR DEVICES LOCATED WITHIN STAIR ENCLOSURE.
- WHERE INDICATED, PROVIDE FIXTURES WITH EMERGENCY BATTERY TO OPERATE LAMPS FOR 1 1/2 HOURS UPON LOSS OF NORMAL POWER. WIRE EMERGENCY BATTERY AND EXIT LIGHTS TO LINE SIDE OF AREA LIGHTING CIRCUIT.
- DIRECTIONAL CHEVRONS SHALL CONFORM TO NFPA 5-10.4.1.2 AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM OF 40 FT. UNDER ALL SPACE CONDITIONS. PROVIDE DIRECTIONAL CHEVRONS AS INDICATED ON PLAN.
- BRANCH CIRCUIT WIRING IS SHOWN ON THE FLOOR PLANS. NUMERALS ADJACENT TO THE HOMERUN SYMBOLS FOR LIGHTING, RECEPTACLES, MOTORS, APPLIANCES, ETC. INDICATE THE CIRCUIT NUMBER TO WHICH THE ITEMS ARE TO BE CONNECTED. PROVIDE BRANCH CIRCUIT WIRING FOR ALL ITEMS SHOWN IN ACCORDANCE WITH THESE GENERAL NOTES AND THE ELECTRICAL SPECIFICATIONS.
- ALL 1 POLE, 15 AND 20 AMPERE BRANCH CIRCUITS SERVING RECEPTACLE OR LIGHTING SHALL BE 2 WIRE CIRCUITS PROVIDING AN INDIVIDUAL NEUTRAL CONDUCTOR FOR EACH UNGROUNDED (HOT) CIRCUIT CONDUCTOR. DO NOT SHARE NEUTRAL CONDUCTORS.
- REFER TO ARCHITECTS REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED DEVICES.
- ALL EXPOSED CABLES OF ANY TYPE IN PLENUM CEILING SPACE SHALL BE PLENUM RATED.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY MISCELLANEOUS STEEL FOR THE SUPPORT OF ALL EQUIPMENT, PIPING, CONDUIT AND DUCTWORK. SUSPENDED FROM SLAB, STEEL, WALL OR TRUSSWORK.
- ALL PENETRATIONS OF FLOORS AND WALLS (WHETHER OR NOT FIRE RESISTANCE RATED) SHALL BE PROVIDED WITH A THROUGH PENETRATION PROTECTION SYSTEM (FIRES TOPPING). EACH THROUGH - PENETRATION PROTECTION SYSTEM SHALL BE TESTED IN ACCORDANCE WITH ASTM E814 AND BE LISTED FOR THE TYPE OF FLOOR OR WALL ASSEMBLY PENETRATED AND THE TYPE OF PROTECTION SYSTEM.
- IT IS NOT THE INTENTION TO SHOW EVERY FITTING, HANGER, WIRE OR DEVICE, ALL SUCH ITEMS SHALL BE FURNISHED AND INSTALLED AS NECESSARY FOR A COMPLETE SYSTEM.
- SEE SPECIFICATION SECTION "ELECTRICAL IDENTIFICATION" FOR PROPERLY LABELING EQUIPMENT WIRING, BOXES, ETC.
- CONTRACTOR SHALL DETERMINE THE QUANTITY OF CONDUCTORS REQUIRED FOR PROPER OPERATION OF ALL SWITCHING SCHEMES.
- PROVIDE ALL BONDING AND GROUNDING REQUIRED BY THE NATIONAL ELECTRIC CODE, NFPA 70 AND AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION.
- ALL REQUIRED BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID INSULATED COPPER, PROVIDE ALL NECESSARY FITTINGS, JUNCTION BOXES, END FITTINGS, ETC., FOR A COMPLETE, CONTINUOUS INSTALLATION.
- ALL BONDING/GROUNDING CONNECTIONS SHALL BE MADE BY LISTED CLAMP OR CONNECTORS AS REQUIRED BY ARTICLE 250 OF NFPA 70, THE NATIONAL ELECTRIC CODE (CURRENT ADOPTED EDITION).
- SEISMICALLY SUPPORT THE EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR AS SPECIFIED, SUBMIT ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.

LIGHTING FIXTURE NOTES

- TYPE 'EM' EMERGENCY FIXTURES AND TYPE 'X' EXIT SIGNS SHALL BE WIRED TO LINE SIDE OF AREA LIGHTING CIRCUIT TO SENSE LOSS OF NORMAL POWER AND PROVIDE CONTINUOUS TRICKLE CHARGE, AND SHALL OPERATE AT A MINIMUM OF 1 1/2 HOURS UPON LOSS OF NORMAL POWER. SEE SCHEDULE.
- DIRECTIONAL CHEVRONS SHALL CONFORM TO NFPA 5-10.4.1.2 AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM OF 40 FT. UNDER ALL SPACE CONDITIONS. SEE DETAIL BELOW.



EXIT SIGN DIRECTIONAL INDICATOR

- ALL FIXTURES TO BE LED WITH 0-10V DRIVERS STANDARD. ALL FIXTURES TO BE COLOR TEMPERATURE 4000°K..
- PROVIDE ERICO FASTENING PRODUCTS (CADDY) CAT. No. 515 OR 515A LIGHT FIXTURE SUPPORT CLIPS ON ALL RECESSED LIGHT FIXTURES. PROVIDE MINIMUM FOUR (4) PER FIXTURE.
- IN ADDITION TO THE REQUIREMENTS OF THE IBC AND THE NEC, ALL RECESSED LIGHT FIXTURES SHALL BE PROVIDED WITH SUPPORT WIRES AT A MINIMUM OF FOUR (4) PER FIXTURE AND LOCATED NOT MORE THAN SIX (6") INCHES FROM EACH CORNER, EXTENDED AND ATTACHED TO THE BUILDING STRUCTURE. HANGER WIRES SHALL BE GALVANIZED CARBON STEEL, ASTM A661, SOFT TEMPER, PRE-STRETCHED WITH A YIELD STRESS LOAD OF AT LEAST THREE (3) TIMES DESIGN LOAD BUT NOT LESS THAN 12 GAUGE (0.106"). FOR ROUND FIXTURES OR FIXTURES SMALLER THAN THE CEILING GRID, PROVIDE A MINIMUM OF FOUR (4) WIRES PER FIXTURE AND LOCATE AT EACH CORNER OF THE CEILING GRID IN WHICH THE FIXTURE IS TO BE LOCATED. ADDITIONALLY, WHERE FIXTURES OF SIZES LESS THAN THE CEILING GRID ARE INDICATED TO BE CENTERED IN THE ACOUSTICAL PANEL, SUCH FIXTURES SHALL BE SUPPORTED WITH A MINIMUM OF TWO (2) 3/4" METAL CHANNELS SPANNING AND SECURED TO THE CEILING TEES.
- VERIFY ALL LIGHT FIXTURE FINISHES WITH ARCHITECT PRIOR TO PURCHASE.
- VERIFY ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.

Suffield Public Schools

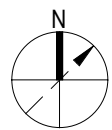
Ward Spaulding School Preschool Classroom Renovations

945 MOUNTAIN RD
WEST SUFFIELD, CT 06093

CONSULTANTS



KEY PLAN



PROJECT DATA

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CURRENT SUBMISSION DATE	06.01.20
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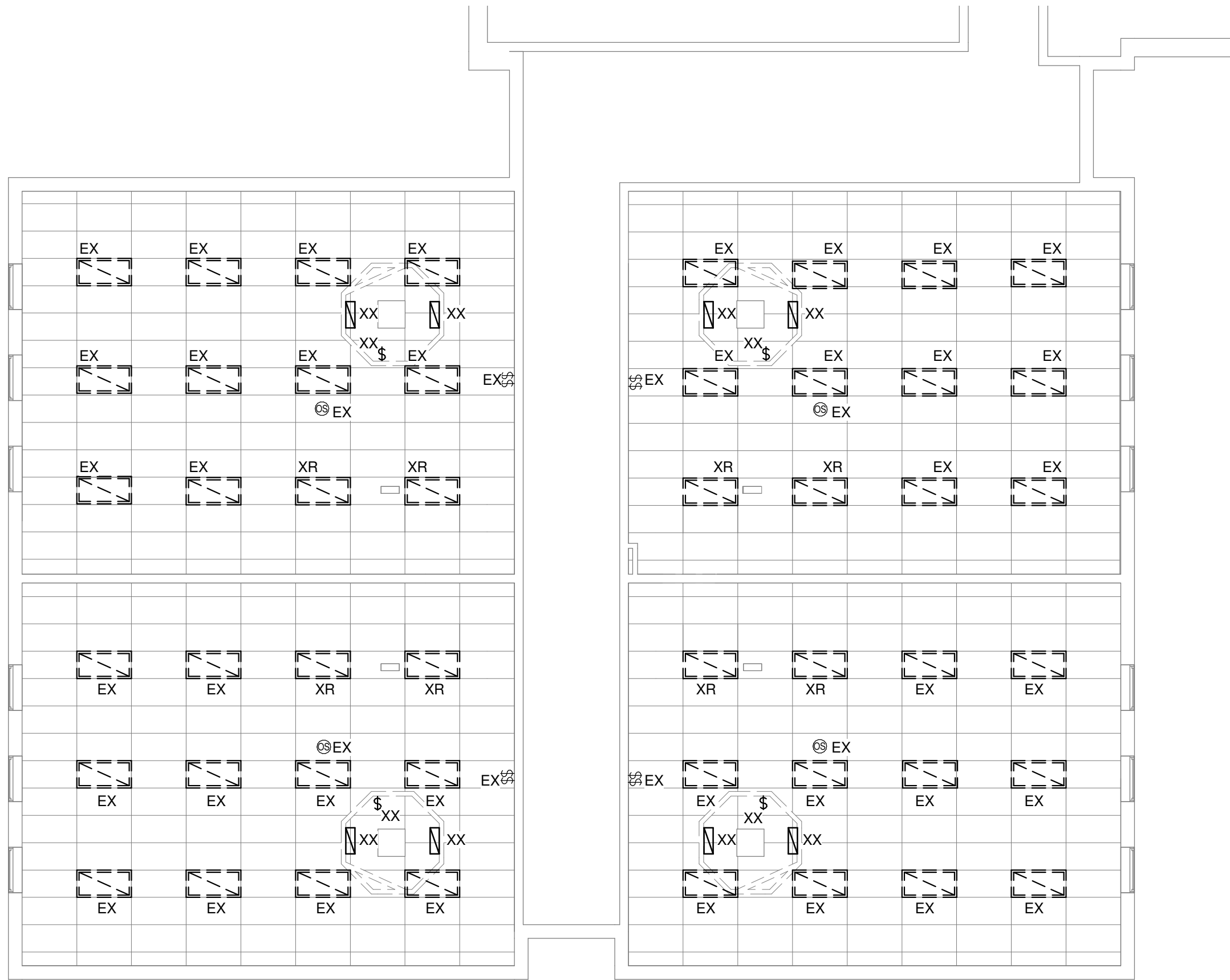
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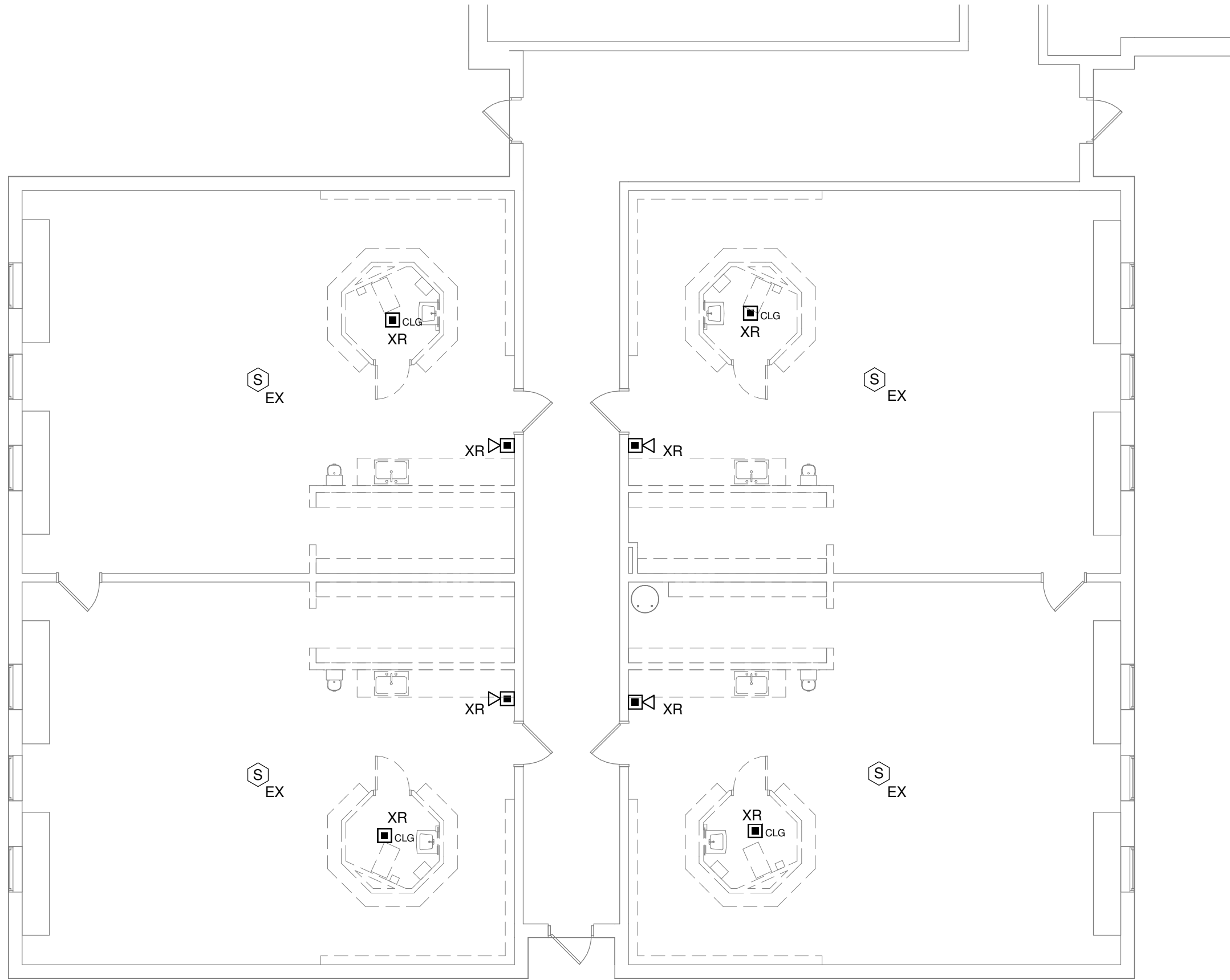
SHEET TITLE

ELECTRICAL ABBREVIATIONS, GENERAL NOTES AND SYMBOL LIST



1 FIRST FLOOR LIGHTING DEMOLITION RCP

1/8" = 1'-0"



2 FIRST FLOOR POWER DEMOLITION PLAN

1/8" = 1'-0"

ELECTRICAL DEMOLITION NOTES

- BEFORE SUBMITTING BID, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE DOCUMENTS OF OTHER TRADES UNDER WHICH THEIR WORK WILL BE ACCOMPLISHED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS.
- THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ANY DAILY INTERRUPTIONS OR SHUTDOWNS OF THE EXISTING SYSTEMS IN ADVANCE WITH OWNER'S DESIGNATED REPRESENTATIVE. THIS SHALL INCLUDE SERVICES INTERRUPTIONS AND CONNECTIONS, MECHANICAL AND ELECTRICAL DISRUPTIONS EFFECTING OTHER TRADES. INCLUDE ALL WORK REQUIRED TO ALLOW PHASED CONSTRUCTION WHERE NECESSARY.
- DEMOLITION DRAWINGS ARE STRICTLY DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENT AND APPROXIMATE LOCATION OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING REUSED SHALL BE REMOVED, INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, CONDUITS, WIRES, AND CONTROLS BACK TO THE POINT OF ORIGIN.
- REFER TO THE ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. THE FULL EXTENT OF THE DEMOLITION AND RECONSTRUCTION SCOPE OF WORK SHALL BE DETERMINED BY THE ENTIRE SET OF BID DOCUMENTS.
- THE CONTRACTORS SHALL COORDINATE THE DEMOLITION SCOPE OF WORK WITH THE GENERAL CONTRACTOR'S OR CONSTRUCTION MANAGER'S PHASING SCHEDULE PRIOR TO COMMENCEMENT OF WORK. CARE MUST BE TAKEN SO AS NOT TO DESTROY, REMOVE OR DEMOLISH ANY EQUIPMENT, APPURTENANCES OR DEVICES INTENDED TO REMAIN. PROVIDE TEMPORARY SERVICES AND SYSTEM MODIFICATIONS TO ACCOMMODATE CONTINUOUS OPERATION OF ACTIVE SYSTEM.
- THE LOCATION OF EXISTING ELECTRICAL SYSTEM SHOWN ON FLOOR PLANS, IS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCEMENT OF CONSTRUCTION, EXACT QUANTITY AND LOCATION(S) OF EXISTING EQUIPMENT, PANELS, CONDUITS, LIGHTING, ETC. TO BE REMOVED AND ADJUST AS NECESSARY.
- ALL EQUIPMENT, AND ASSOCIATED WIRING, CONDUITS INDICATED TO BE REMOVED OR RELOCATED, SHALL BE DISCONNECTED AND REMOVED, INCLUDING HANGERS AND OTHER COMPONENTS. NO EQUIPMENT, WIRING OR CONDUITS SHALL BE ABANDONED IN PLACE, UNLESS SPECIFICALLY NOTED.
- ALL SYSTEMS TO BE REMOVED SHALL BE REMOVED BACK TO THE POINT OF SOURCE. THE CONTRACTOR SHALL VERIFY WHICH SYSTEMS MUST REMAIN ACTIVE TO SERVE ADJACENT SPACES DURING CONSTRUCTION. SHOULD THE CONTRACTOR ENCOUNTER, DURING DEMOLITION OF EXISTING WALLS OR CHASES, ANY WIRING OR CONDUIT WHICH MUST REMAIN ACTIVE, IMMEDIATELY GIVE NOTICE TO THE ENGINEER, GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.
- ALL SALVAGEABLE MATERIALS OR EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER AT THE END OF EACH DAY. ITEMS REMOVED AND NOT REUSED OR CLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE TRADE CONTRACTOR AND SHALL BE TRANSPORTED FROM THE SITE. SITE STORAGE OF REMOVED ITEMS WILL NOT BE PERMITTED.
- PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT IN COMPLIANCE WITH CODES AND REGULATIONS; THIS APPLIES TO HAZARDOUS MATERIALS AND CONTAMINATED ITEMS TO BE DEMOLISHED.
- THE CONTRACTOR SHALL OBTAIN EXISTING ELECTRICAL DRAWINGS FROM THE OWNER IF AVAILABLE TO HELP DETERMINE FULL SCOPE OF WORK.
- REFER TO ELECTRICAL PLANS FOR MORE INFORMATION REGARDING EXISTING EQUIPMENT, ETC.

ELECTRICAL EXISTING EQUIPMENT LEGEND

EXISTING EQUIPMENT LEGEND
EX - INDICATES EXISTING TO REMAIN
XR - INDICATES EXISTING TO BE RELOCATED
XN - INDICATES NEW LOCATION OF RELOCATED
XX - INDICATES EXISTING TO BE REMOVED
-ALL ITEMS TO BE RELOCATED SHALL BE DISCONNECTED AND REMOVED, AND REINSTALLED IN NEW LOCATION AS INDICATED. RECONNECT TO EXISTING CIRCUIT VIA CONTROLS SHOWN ON PLAN. EXTEND WIRING AS REQUIRED.
-ALL ITEMS EXISTING TO BE REMOVED SHALL BE DISCONNECTED AND REMOVED. EXISTING CIRCUIT SHALL BE MAINTAINED AS REQUIRED SO THAT DEVICES TO REMAIN ON SAME CIRCUIT SHALL OPERATE AS INTENDED.
ALL EQUIPMENT IN THE CLASSROOMS SHALL BE EXISTING TO REMAIN UNLESS OTHERWISE NOTED OR ON WALLS, CEILINGS, ETC. BEING REMOVED. COORDINATE WITH ARCHITECTURAL DRAWINGS AND ARCHITECT. MAINTAIN EXISTING CIRCUITS FOR ANY DEVICES WHICH ARE TO REMAIN.

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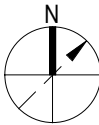
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ELECTRICAL DEMOLITION
PLANS

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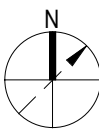
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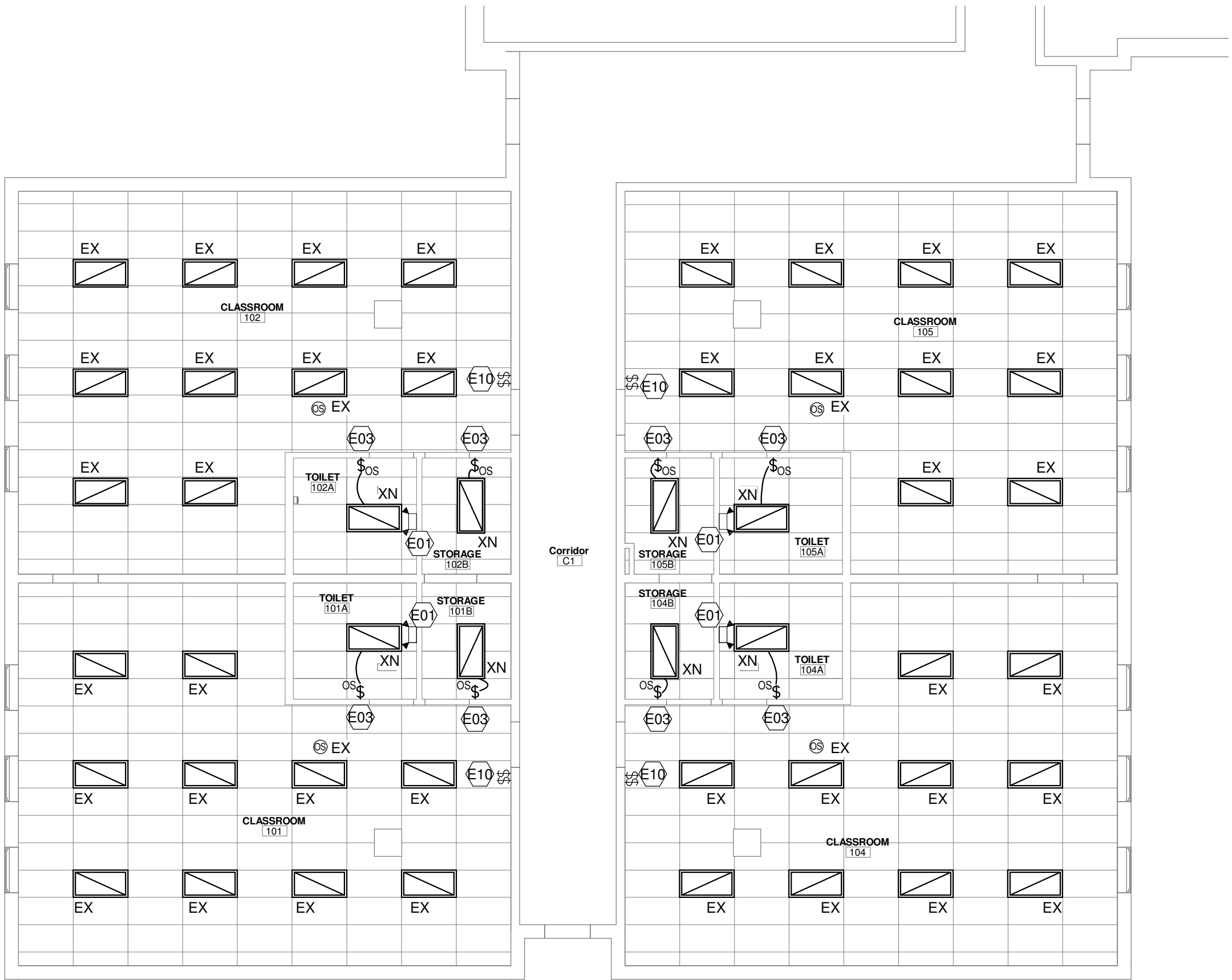
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ELECTRICAL PLANS



ELECTRICAL SPECIFICATIONS:
GENERAL:
THE ENTIRE ELECTRICAL SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE CONNECTICUT STATE BUILDING CODE INCLUDING THE LATEST ADOPTED VERSION OF:

- INTERNATIONAL BUILDING CODE
- AMENDMENTS TO THE INTERNATIONAL BUILDING CODE
- INTERNATIONAL PLUMBING CODE
- INTERNATIONAL MECHANICAL CODE
- INTERNATIONAL ENERGY CONSERVATION CODE
- NATIONAL ELECTRICAL CODE
- ANSI A117.1 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES
- OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR TO COMPLETE ELECTRICAL SYSTEMS AS SHOWN ON THE PLANS AND AS SPECIFIED HEREIN.
THE INTENT OF THESE SPECIFICATIONS AND CONTRACT DRAWINGS IS TO PROVIDE COMPLETE INSTALLATION OF THE VARIOUS SYSTEMS DESCRIBED HEREIN AND INDICATED ON THE DRAWINGS. ANY LISTING OR INDICATION OF ITEMS FURNISHED OR WORK TO BE PERFORMED SHALL NOT BE COMPLETE IN ITSELF AND SHALL NOT LIMIT THE GENERAL REQUIREMENTS TO FURNISH AND INSTALL WORK, EQUIPMENT, ACCESSORIES, CONTROLS, ETC., TO COMPLETE THE CONTRACT IN A SUBSTANTIAL MANNER. WORK SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- A. SAFETY SWITCHES - HEAVY DUTY FUSIBLE
- B. FUSES - TIME DELAY - BUSSMAN LPN-RK (250V)
- C. FAST ACTING - BUSSMAN KTN-R (250V)
- C. DISCONNECTION AND COMPLETE REMOVAL OF LIGHTING AND EQUIPMENT NOT INTENDED FOR REUSE
- D. PROVISION OF ALL LIGHTING FIXTURES COMPLETE WITH LAMPS, HANGERS AND SUPPORTS
- E. BRANCH LIGHTING AND RECEPTACLE WIRING AND CONDUIT, COMPLETE WITH ALL CONNECTIONS
- F. PROVISION OF ALL OUTLET BOXES, WIRING DEVICES, PLATES, CONDUIT, CONDUIT FITTINGS, HANGERS, SUPPORTS, AND SUCH OTHER ITEMS REQUIRED AND INCIDENTAL FOR A COMPLETE INSTALLATION.
- G. PROVISION OF ALL DISCONNECT SWITCHES, MANUAL AND MAGNETIC MOTOR STARTERS, AS REQUIRED FOR ALL HVAC AND OTHER ELECTRICAL EQUIPMENT
- H. PROVISION OF POWER AND TEMPERATURE CONTROL WIRING TO HVAC AND PLUMBING EQUIPMENT SUCH AS AIR HANDLING UNITS, ROOFTOP HEATING/COOLING UNITS, EXHAUST FANS, COMPRESSORS, EVAPORATORS AND THE LIKE COMPLETE WITH ALL CONNECTIONS

I. ALL HVAC AND EQUIPMENT WILL BE PROVIDED BY OTHERS FOR WIRING BY THIS ELECTRICAL CONTRACTOR EXCEPT AS NOTED.

PERMITS AND FEES:

- A. OBTAIN AND PAY FOR ALL NECESSARY PERMITS REQUIRED BY LAW AND LOCAL INSPECTIONS AUTHORITIES TO PERFORM THE ELECTRICAL WORK SPECIFIED HEREIN

WIRING AND RACEWAY:

1. THE DRAWINGS SHOW THE GENERAL LAYOUT AND TYPICAL DETAILS. PROVIDE COMPLETE SYSTEMS. DRAWINGS ARE BASED ON THE SPECIFIED EQUIPMENT, RACEWAY LAYOUTS, BOXES, AND WIRING OF THE SYSTEMS ARE SUBJECT TO APPROVED SHOP DRAWINGS.
2. ENSURE THAT ITEMS TO BE FURNISHED FIT THE SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS, INCLUDING THOSE FOR CONNECTIONS, AND PROVIDE SUCH SIZES AND SHAPES OF EQUIPMENT THAT FINAL INSTALLATION SHALL SATISFY THE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
3. LOCATIONS OF OUTLETS, SWITCHES, APPLIANCES, ETC. AS SHOWN ON ELECTRICAL PLANS ARE APPROXIMATE. COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS AND DETAILS, AND WITH JOB CONDITIONS. INSTALL SWITCHES WITH "OFF" POSITION DOWN. INSTALL RECEPTACLES WITH GROUNDING POLE IN THE UP POSITION FOR VERTICAL MOUNTING AND AT LEFT FOR HORIZONTAL MOUNTING.
4. LOCATE AND INSTALL EQUIPMENT, JUNCTION AND PULL BOXES, PANEL BOARDS, SWITCHES, CONTROLS, AND OTHER APPARATUS REQUIRING MAINTENANCE, INSPECTION, AND OPERATION SO AS TO BE READILY ACCESSIBLE.

RACEWAY INSTALLATION:

1. IN ALL ARCHITECTURALLY FINISHED SPACES, CONDUITS AND CABLES SHALL BE RUN CONCEALED IN HUNG OR FURRED CEILINGS, SLABS, MASONRY, AND PARTITIONS UNLESS OTHERWISE INDICATED. SAW CUTTING AND FINISHED PATCHING SHALL BE REQUIRED IN EXISTING SLABS AND MASONRY WALLS. IN UNFINISHED SPACES, RACEWAYS MAY BE RUN EXPOSED.
2. UNLESS OTHERWISE INDICATED, EXACT ROUTING OF RACEWAYS SHALL BE DETERMINED BY THE CONTRACTOR TO SUIT THE PROJECT REQUIREMENTS AND FIELD CONDITIONS.
3. MINIMUM CONDUIT SIZE SHALL BE ¾" I.D.
 - A. IN CONCRETE - RIGID METAL CONDUIT
 - B. UNDERGROUND - RIGID NONMETALLIC CONDUIT
 - C. EXPOSED AND CONCEALED - ELECTRICAL METALLIC TUBING

WIRING INSTALLATION:

1. DO NOT USE WIRE SMALLER THAN No. 12 AWG FOR ANY POWER OR LIGHTING CIRCUIT. USE LARGER SIZES WHERE INDICATED, AS REQUIRED BY CODES, AND AS FOLLOWS:

30 AMPERE CIRCUIT:	No. 10 AWG
40 AMPERE CIRCUIT:	No. 8 AWG
50 AMPERE CIRCUIT:	No. 6 AWG
60 AMPERE CIRCUIT:	No. 4 AWG

- A. MINIMUM HOMERUN AND BRANCH CIRCUIT WIRING SIZES AND MAXIMUM HOMERUN CONDUIT FILL FOR 120 VOLT, 20 AMPERE CIRCUITS SHALL BE AS FOLLOWS:

LENGTH	WIRE SIZE	HOMERUN	CONDUIT SIZE
			(8 WIRES/CONDUIT)
0' TO 50'	¾" #12	#12	
51' TO 100'	#12 #10	#10	
101' TO 200'	#10	#8	1

GREATER THAN 200' - REQUEST DIRECTION FROM ARCHITECT/ENGINEER
NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT CARRYING CONDUCTORS IN CONDUIT.

B. HOMERUNS AND BRANCH CIRCUIT WIRING FOR 277 VOLT, 20 AMPERE CIRCUITS SHALL BE AS FOLLOWS:

LENGTH	CIRCUIT WIRE SIZE	HOMERUN WIRE SIZE	CONDUIT SIZE (8 WIRES/CONDUIT)
0' TO 100'	#12	#12	
100' TO 200'	¾" #12	#12	
GREATER THAN 200'			#10

NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT CARRYING CONDUCTORS IN CONDUIT.

2. DO NOT USE WIRE SMALLER THAN No. 14 AWG FOR CONTROL CIRCUITS UNLESS OTHERWISE RECOMMENDED BY THE EQUIPMENT OR SYSTEM MANUFACTURER ON WIRING SHOP DRAWINGS, AND SO APPROVED BY THE ARCHITECT.
3. WIRING ABOVE ACCESSIBLE CEILINGS AND IN STUDDED PARTITIONS MAY BE TYPE MC CABLE
4. WHERE GREATER THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE INSTALLED IN ANY ONE CONDUIT OR CABLE, CONDUCTORS MUST BE DERATED AND SIZES INCREASED, IF NEEDED, TO ACCOMMODATE CONDUCTOR DERATING AS REQUIRED BY NEC ARTICLE 310, NOTE 8(A) OF AMPACITY TABLES FOR 0-2000 VOLT CONDUCTORS.
5. CONDUCTORS SHALL BE COMPLETELY INSTALLED AND CONNECTED. PROVIDE ALL TERMINALS, LUGS, AND CONNECTORS TO SUIT THE APPLICATION, AND IN COMPLIANCE WITH EQUIPMENT MANUFACTURERS' RECOMMENDATIONS.
6. BRANCH CIRCUIT WIRING FOR LIGHTING AND OTHER SINGLE PHASE APPLICATIONS SHALL BE MULTI-WIRE, UTILIZING COMMON NEUTRALS, EXCEPT COMPUTER AND WORKSTATION CIRCUITS AND DIMMER CIRCUITS SHALL HAVE SEPARATE NEUTRALS, AND AS OTHERWISE INDICATED.
7. UNDER NO CIRCUMSTANCES SHALL ANY SWITCH OR CIRCUIT BREAKER BREAK A NEUTRAL CONDUCTOR.
8. THE CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE INTENDED AS A GUIDE FOR PROPER CONNECTION OF CIRCUITS TO PANELS. HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE FINAL CIRCUITING WORK FULFILLS THE FOLLOWING CONDITIONS:
 - A. LOADS ON PANEL BUSES SHALL BE PHASE-BALANCED AS EVENLY AS POSSIBLE.

GROUNDING INSTALLATION:

1. PROVIDE ALL ELECTRICAL GROUNDING TO CONFORM TO ARTICLE 250 OF THE NEC.
2. EQUIPMENT GROUNDING:
 - A. INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL CONDUIT RUNS CONTAINING SECTIONS OF FLEXIBLE CONDUIT UNLESS OTHERWISE NOTED.
 - B. INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL BRANCH CIRCUIT RACEWAYS OR CABLES UNLESS OTHERWISE NOTED.

SWITCHES AND RECEPTACLES:

1. LIGHT SWITCHES - 20 AMP, 120V - PASS & SEYMOUR #PS20AC11
2. DUPLEX RECEPTACLES - 20 AMP, 120V - PASS & SEYMOUR #PT5362LI
3. SPECIAL PURPOSE RECEPTACLES - AS SPECIFIED AND SHOWN ON THE DRAWINGS OR AS REQUIRED TO MATCH EQUIPMENT SERVED.
4. PLATES - PASS & SEYMOUR TP SERIES
5. WIRING DEVICES AS SPECIFIED ARE BASED ON PASS AND SEYMOUR CATALOG NUMBERS. DEVICES AS MANUFACTURED BY LEVITON OR HUBBEL WILL BE CONSIDERED, IF THEY ARE OF THE SAME TYPE AND QUALITY.
6. ALL DEVICES AND PLATES SHALL BE IVORY UNLESS OTHERWISE NOTED. COORDINATE ALL FINISHES WITH ARCHITECT PRIOR TO PURCHASE.

LIGHTING FIXTURES:

1. PROVIDE FIXTURES AND LAMPS AS SHOWN AND SPECIFIED ON THE DRAWINGS.
2. ALL LED / FLUORESCENT LAMPS SHALL BE WARM WHITE LAMPS UNLESS SPECIFIED OTHERWISE.
3. ALL LED DRIVERS / BALLASTS SHALL BE CBM CERTIFIED HIGH POWER FACTOR, ENERGY EFFICIENT, FULL LIGHT OUTPUT TYPES.
4. ALL LED / FLUORESCENT BALLASTS SHALL BE AS MANUFACTURED BY ADVANCE, UNIVERSAL OR MOTOROLA.

MECHANICAL EQUIPMENT WIRING:

1. UNLESS OTHERWISE NOTED OR SPECIFIED HEREIN, ALL MOTORS, MOTOR STARTERS, MOTOR CONTROLLERS, VARIABLE SPEED/FREQUENCY DRIVES, AND ASSOCIATED CONTROL DEVICES ARE FURNISHED UNDER OTHER DIVISIONS, INSTALLED UNDER THIS DIVISION. COORDINATE INSTALLATION AND LOCATIONS WITH OTHER DIVISION CONTRACTORS.
2. POWER WIRING FROM THE INDICATED SOURCE TO THE STARTER/CONTROLLER/DRIVE UNIT, AND FROM THE STARTER/CONTROLLER/DRIVE UNIT TO THE MOTOR, INCLUDING ANY LOCAL DISCONNECT SWITCHES PROVIDED AND INSTALLED BY THIS DIVISION, AND ALL ASSOCIATED LUGS, TERMINALS, AND CONNECTORS, IS THE WORK OF THIS DIVISION.
3. CONTROL CIRCUIT WIRING IS GENERALLY FURNISHED AND INSTALLED UNDER OTHER DIVISIONS, EXCEPT THAT ANY SUCH WIRING SHOWN ON ELECTRICAL DRAWINGS IS WORK OF THIS DIVISION.
4. COOPERATE AND COORDINATE WITH THE OTHER TRADES IN THE INSTALLATION, CONNECTION, AND TESTING OF MECHANICAL EQUIPMENT. PERFORM WORK OF THIS SECTION IN ACCORDANCE WITH EQUIPMENT MANUFACTURERS' INSTRUCTIONS.

EXAMINATION OF SITE:

1. BEFORE SUBMITTING BID, CONTRACTOR SHALL VISIT THE SITE WITH PLANS AND SPECIFICATIONS IN HAND AND SHALL BECOME THOROUGHLY FAMILIAR WITH ALL CONDITIONS UNDER WHICH HIS WORK WILL BE PERFORMED.
2. THE SUBMISSION OF A BID SHALL BE TAKEN AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE, AND DIFFICULTIES, IF ANY, NOTED AND REPORTED TO THE ENGINEER. LATTER CLAIMS FOR EXTRA COST OF LABOR, MATERIALS AND EQUIPMENT REQUIRED FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN, SHALL NOT BE RECOGNIZED.

FINAL INSPECTION AND TEST:

1. PRIOR TO TEST, FEEDERS AND BRANCHES SHALL BE CONTINUOUS FROM SERVICE CONTACT POINT TO EACH OUTLET. ALL PANELS, FEEDERS AND DEVICES CONNECTED AND CIRCUIT BREAKERS IN PLACE. TEST SYSTEM FREE FROM SHORT CIRCUITS AND GROUND WITH INSULATION RESISTANCE NOT LESS THAN OUTLINED IN THE 2005 NATIONAL ELECTRICAL CODE. PROVIDE TESTING EQUIPMENT NECESSARY AND CONDUCT TEST IN PRESENCE OF OWNER'S AUTHORIZED REPRESENTATIVE.

FIRE ALARM SPECIFICATIONS

A. EXISTING FIRE ALARM CONTROL PANEL TO REMAIN, MAKE ALL REQUIRED CONNECTIONS AS IT WAS PREVIOUSLY INCLUDING REPORTING TO LOCAL FIRE DEPARTMENT. PROVIDE ANY/ALL NEW ACCESSORIES, OTHER EQUIPMENT AS NEEDED PER FIRE ALARM SYSTEM MANUFACTURER'S REQUIREMENTS/RECOMMENDATIONS.

B. PROVIDE A NEW NOTIFICATION CIRCUIT EXTENDER PANEL IF REQUIRED PER THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE NEW CONTROL, INDICATING, NOTIFICATION AND MONITORING DEVICES COMPATIBLE WITH THE EXISTING SYSTEM. ALL DEVICES AND INSTALLATIONS SHALL COMPLY WITH AMERICANS WITH DISABILITIES ACT (ADA) GUIDELINES WHERE APPLICABLE.

C. THE SEQUENCE OF OPERATION IS PART OF THE EXISTING FIRE ALARM SYSTEM ALREADY IN PLACE. THE FOLLOWING IS FOR REFERENCE AND SHOULD BE FOLLOWED WHEN ADDING DEVICES TO THE EXISTING FIRE ALARM SYSTEM. COORDINATE WITH THE MANUFACTURER FOR COMPLIANCE WITH THE FOLLOWING SEQUENCE OF OPERATION WHEN ADDING DEVICES OR MODIFYING THE EXISTING FIRE ALARM SYSTEM IN ANY MANNER. THE OPERATION OF A MANUAL STATION OR ACTIVATION OF ANY AUTOMATIC ALARM INITIATING DEVICE (SYSTEM SMOKE, HEAT, WATER-FLOW) SHALL AUTOMATICALLY:

1. INITIATE THE TRANSMISSION OF THE ALARM TO THE MUNICIPAL FIRE STATION OR APPROVED CENTRAL STATION VIA A LOCAL ENERGY MASTER BOX, MULTI-ZONE MASTER BOX, RADIO MASTER BOX, OR DIGITAL ALARM COMMUNICATOR/TRANSMITTER (DACT).
2. SOUND A CODE 3 TEMPORAL EVACUATION SIGNAL OVER ALL AUDIO CIRCUITS. EXCEPT IN DESIGNATED AREAS OF ASSEMBLY, IN DESIGNED AREAS OF ASSEMBLY (SOUND A PRE-RECORDED VOICE MESSAGE(S) LOCATED AT THE FACP OR REMOTE LOCATION(S) IN ACCORDANCE WITH THE LOCAL REQUIREMENTS.
3. FLASH ALL VISUAL SIGNALS THROUGHOUT THE BUILDING IN A SYNCHRONIZED MANNER.
4. FLASH AN ALARM LED AND SOUND AN AUDIBLE SIGNAL AT THE FACP. UPON ACKNOWLEDGEMENT THE ALARM LED SHALL LIGHT STEADILY AND THE AUDIBLE SHALL SILENCE. SUBSEQUENT ALARMS SHALL RE-INITIATE THIS SEQUENCE.
5. UPON ACTIVATION BY AN ELEVATOR LOBBY SMOKE DETECTOR OR OTHER DESIGNED RECALL DEVICES, RECALL ALL ELEVATORS THAT SERVE THE FLOOR OF THE INITIALIZATION TO THE MAIN EGRESS LEVEL. IF THE ALARM INITIATES ON THE MAIN EGRESS LEVEL, RETURN THE ELEVATOR TO THE ALTERNATE FLOOR AS DIRECTED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
6. VISUALLY INDICATE THE ALARM INITIATING DEVICE TYPE AND LOCATION VIA THE LCD DISPLAY LOCATED AT THE FACP (AND AT ANY REMOTE ANNUNCIATORS) AND (ILLUMINATE THE APPROPRIATE ALARM ZONE LED AT THE REMOTE ANNUNCIATORS).
7. AUTOMATICALLY SHUT DOWN OR CONTROL HVAC EQUIPMENT TO INITIATED SMOKE CONTROL FUNCTIONS AS REQUIRED. MANUAL OVERRIDE CONTROLS AND PROGRAMMABLE RELAY INTERFACE SHALL SERVE AS AN INTERFACE TO THE BUILDING AUTOMATION SYSTEM.
8. OPERATE PRIORITIZED OUTPUTS TO RELEASE ALL MAGNETICALLY HELD SMOKE DOORS AND MAGNETICALLY LOCKED DOORS THROUGHOUT THE BUILDING.
9. ACTIVATE THE EXTERIOR WEATHERPROOF BEACON.

C. **PROGRAMMING:**

1. THE SYSTEM SHALL BE PROGRAMMED TO INCLUDE THE NEW DEVICES BEING ADDED TO THE SYSTEM AS REQUIRED PER THE CODE AND LOCAL AUTHORITY HAVING JURISDICTION.
2. BATTERIES: BATTERIES SHALL HAVE SUFFICIENT CAPACITY TO POWER THE FIRE ALARM SYSTEM FOR NOT LESS THAN SIXTY HOURS PLUS 5 MINUTES OF ALARM UPON A NORMAL AC POWER FAILURE.

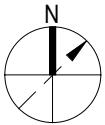
D. **INSTALLATION:**

1. INSTALLATION SHALL BE IN ACCORDANCE WITH THE NEC, NFPA 72, LOCAL AND STATE CODES AS SHOWN ON THE DRAWINGS AND AS RECOMMENDED BY THE MAJOR EQUIPMENT MANUFACTURER.
2. ALL FIRE DETECTION AND ALARM SYSTEM DEVICES SHALL BE FLUSH MOUNTED WHEN LOCATED IN FINISHED AREAS AND MAY BE SURFACE MOUNTED WHEN LOCATED IN UNFINISHED AREAS.
3. CONDUCTORS SHALL BE MINIMUM #12AWG GAUGE COPPER TYPE THHN/THWN FIRE RATED ALL CONDUCTORS SHALL BE CONCEALED AND INSTALLED IN A CONDUIT. CONDUCTOR SIZES SHALL BE INCREASED AS REQUIRED TO MAINTAIN VOLTAGE TO A MINIMUM OF 3%. ALL AC AND DC PORTIONS OF THE SYSTEM SHALL BE INSTALLED IN SEPARATE RACEWAYS.
4. RED PAINTED TERMINAL CABINETS AND BOXES WITH LOCKABLE COVERS SHALL BE PROVIDED AT ALL JUNCTION POINTS FOR FIRE ALARM SYSTEM WIRING.

E. **TEST:**

1. PROVIDE THE SERVICE OF A COMPETENT FACTORY TRAINED ENGINEER OR TECHNICIAN AUTHORIZED BY THE MANUFACTURER OF THE FIRE ALARM EQUIPMENT TO TECHNICALLY SUPERVISE AND PARTICIPATE DURING ALL OF THE ADJUSTMENTS AND TESTS FOR THE SYSTEM. ALL TESTING SHALL BE IN ACCORDANCE WITH NFPA 72, CHAPTER 7 AND THE STATE FIRE CODE.
2. THE FINAL TEST SHALL BE OBSERVED BY THE LOCAL AUTHORITY HAVING JURISDICTION.

KEY PLAN



PROJECT DATA

PROJECT NUMBER	20016
CURRENT SUBMISSION DATE	06.01.20
DRAWN	BH
CHECKED	BH
SCALE	1/8" = 1'-0"
FILE REFERENCE	BIM 360://20-121 Spaulding School/MEP_20-121 Spaulding School.rvt

HISTORY OF SUBMISSIONS

No.	Date	Description

FOR CONSTRUCTION

SHEET TITLE

ELECTRICAL SPECIFICATIONS