Greenburgh Eleven Union Free School District

BETHUNE LEARNING CENTER

1 Echo Hill Drive - Building #36
Dobbs Ferry, NY 10522

ISSUE FOR BID - NOVEMBER 06, 2020

CONSTRUCTION DOCUMENTS

LIST OF DRAWINGS

Sheet Count: 52

PROJECT LOCATION MAP
NTS

BETHUNE LEARNING CENTER

NY SED Project Control No.
66-04-11-02-0-003-002

KG+D Project No.
2019-1029

DESIGN TEAM

ARCHITECT
KG+D Architects
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MECHANICAL ENGINEER
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39 Marble Avenue
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STRUCTURAL ENGINEER
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ROOFING CONSULTANT
Watsky Associates Inc.
20 Madison Avenue
Yorktown, NY 10595
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SPECIFICATIONS CONSULTANT
Sue McClymonds Architect
200 Robb Road
Amsterdam, NY 12010
phone: **518.843.4054**

COVER

T1

1 - PROJECT / CODE REVIEW INFORMATION

NYSED NUMBER:	66-04-11-02-0-003-002
DISTRICT NAME:	GREENBURGH ELEVEN UNION FREE SCHOOL DISTRICT P.O. BOX 501 DOBBS FERRY, NY 10522 PHONE: 914.693.8500
BUILDING NAME:	BETHUNE LEARNING COMMUNITY HIGH SCHOOL
PROJECT LOCATION:	1 ECHO HILL DRIVE - BUILDING #36 DOBBS FERRY, NY 10522
PROJECT TYPE:	ADDITION & LEVEL 2 ALTERATIONS TO EXISTING BUILDING
PROJECT DESCRIPTION:	ADDITION OF CANOPY AT LOWER LEVEL ENTRANCE. PROVISION OF TOILET ROOMS FOR LOWER LEVEL CLASSROOMS. RENOVATIONS INCLUDING EXIST TOILET ROOMS, LOWER LEVEL CLASSROOMS, FINISHES THROUGHOUT, CORRIDOR & MULTI-PURPOSE ROOM LIGHTING. SITE IMPROVEMENTS
PROJECT COMMENCEMENT:	SPRING 2021
PROJECTED COMPLETION:	FALL 2021
APPLICABLE CODES:	2020 NEW YORK STATE UNIFORM FIRE PREVENTION & BUILDING CODE 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE 1998 MANUAL OF PLANNING STANDARDS - THE UNIVERSITY OF THE STATE OF NY THE STATE EDUCATION DEPARTMENT

IS A SPRINKLER SYSTEM PROVIDED?	EXISTING, MODIFICATIONS

BUILDING INFORMATION

USE & OCCUPANCY CLASSIFICATION:	EDUCATIONAL (E)
WORK CHARACTERIZATION:	ADDITION & ALTERATIONS - LEVEL 2
CONSTRUCTION CLASSIFICATION - EXISTING:	TYPE IIA (NON-COMBUSTIBLE, PROTECTED)
CONSTRUCTION CLASSIFICATION - NEW:	TYPE IIA (NON-COMBUSTIBLE, PROTECTED)
SITE PLAN W/ BUILDING SIDES ACCESSIBLE:	NO CHANGE (EXISTING)
BUILDING AREAS:	SEE CHECKLIST SOURCES
FIRE AREAS:	SEE CHECKLIST SOURCES
ROOM USE DESIGNATIONS:	SEE CHECKLIST SOURCES
ROOM SQUARE FOOTAGES:	SEE CHECKLIST SOURCES

EGRESS INFORMATION

ROOM OCCUPANCY LOADS:	SEE CHECKLIST SOURCES
TRAVEL DISTANCE IN ROOM:	SEE CHECKLIST SOURCES
TRAVEL DISTANCE IN CORRIDORS:	DOES NOT EXCEED THE MAX 120' TO STAIR ENCLOSURE
STAIR & EXIT DOOR EXIT WIDTH CALCS:	SEE CHECKLIST SOURCES
ACCESSIBILITY FOR EXIST & NEW:	SEE CHECKLIST SOURCES
RESCUE WINDOWS:	NO CHANGE (EXISTING)
RATED WALLS INDICATED - EXIST & NEW:	SEE CHECKLIST SOURCES
ASSEMBLY USE SPACES:	NO CHANGE (EXISTING)

2 - CODE COMPLIANCE CHECKLIST SOURCES

LOCATIONS IN THE CONSTRUCTION DOCUMENTS / SPECIFICATIONS

BUILDING INFORMATION:	DRAWING SHOWN
BUILDING AREAS & BUILDING HEIGHTS:	CC-1
FIRE AREAS:	CC-1
ROOM USE DESIGNATIONS:	CC-1, FLOOR PLANS
ROOM SQUARE FOOTAGES:	CC-1
EGRESS INFORMATION:	
ROOM OCCUPANCY:	CC-1
EXIT TRAVEL DISTANCES:	NO CHANGE
STAIR & EXIT DOOR EXIT WIDTH CALCULATIONS:	CC-1
ARCHITECTURAL ELEMENT:	
STAIRWAYS ENCLOSED:	CC-1
DEAD END CORRIDORS (<1-1/2 x WIDTH, MAX 20'):	CC-1
SMOKE ZONE EXITING (ALL STUDENT SPACES OVER 500sf):	CC-1
RESCUE / EGRESS WINDOW LOCATIONS:	CC-1
RESCUE / EGRESS WINDOW CLEAR OPENING SIZES:	NO CHANGE
CLASS "A" FINISHES CORRIDORS AND ASSEMBLY SPACES:	SPEC
ASSEMBLY AREAS MAX OCCUPANCY SIGN:	NO CHANGE
ELECTRICALLY POWERED MOVEABLE PARTITION SIGN:	NO CHANGE
FIRE EXTINGUISHERS:	CC-1, SPEC
SAFETY GLAZING IN DOORS, EXT, CORR & STAIR WINDOWS:	DOOR / WINDOW SCHED / SPEC
FIRE RESISTANCE RATED ASSEMBLY UL DESIGN NUMBERS:	SPEC
CORRIDOR ENCLOSURE RATING:	CC-1
RATED INTERIOR CORRIDOR WINDOWS:	DOOR / WINDOW SCHEDULE
ELEVATOR EQUIPMENT ROOM ENCLOSURE 2 HOUR:	N/A
STAIRWAYS, RISER & TREAD SIZES ARE INDICATED:	NO CHANGE
CLASSROOM CEILING HEIGHT 9'-0":	RCP
SECURE EXAM STORAGE:	NO CHANGE
FIRE BLANKETS IN LAB ROOMS:	NO CHANGE
DOOR SCHEDULES:	A901
HARDWARE SCHEDULES:	SPEC
WINDOW SCHEDULES:	N/A
ROOF SYSTEM UL CLASS A OR FM CLASS 1:	SPEC
CARPET, RADIANT FLOOR PANEL TEST CLASS 1:	SPEC
ASSEMBLY AREA SEATING MEETS CALIFORNIA TECH BULLETIN 117:	NO CHANGE
FIRE GLAZING IS IMPACT RESISTANT:	SPEC
TRUSS/JOIST IDENTIFICATION SIGNS:	SPEC
SITE & FLOOR PLANS SHOWING SEPARATIONS DURING CONST:	N/A
ACCESSIBILITY CHECKLIST:	
PARKING:	NO CHANGE
EXTERIOR ACCESSIBLE ROUTE:	NO CHANGE
EXTERIOR ACCESSIBILITY SIGNAGE:	NO CHANGE
ACCESSIBLE EXITS / ENTRANCES:	CC-1, FLOOR PLANS
ACCESSIBLE TOILETS:	CC-1, FLOOR PLANS
ACCESSIBLE WORK STATIONS IN ALL CLASSROOMS:	NO CHANGE
DOOR APPROACH CLEARANCES:	FLOOR PLANS
INTERIOR ACCESSIBLE ROUTE TO MAJOR SPACES:	NO CHANGE
DOOR HARDWARE:	SPEC
WHEELCHAIR VIEWING SPACES IN ASSEMBLY SPACES:	NO CHANGE
AUDITORIUM AMBULATORY SEATS:	NO CHANGE
ASSISTIVE LISTENING DEVICES:	NO CHANGE
PUBLIC TELEPHONES:	NO CHANGE
ELEVATOR:	FLOOR PLANS
ELEVATOR SIGNAGE:	SPEC
INTERIOR ACCESSIBILITY SIGNAGE:	A501, SPEC
ALL PROGRAM SPACES ARE ACCESSIBLE:	FLOOR PLANS
THERE IS AN ACCESSIBLE TOILET ON EVERY FLOOR:	FLOOR PLANS

3 - PLUMBING FIXTURES

TYPE	REQ. FIXTURES		PROVIDED		
	MALE	FEMALE	MALE	FEMALE	UNISEX
TOILET	10	10	14	7	3
URINAL	-	-	17	-	-
LAVATORY	10	10	14	4	3
FOUNTAIN	10		11		
SERVICE SINK	1		1		

CALC. BASED ON FULL TIME OCCUPANCY OF ALL GRADE LEVEL CLASSROOMS (MAX SED) AND ADMIN OFFICES

ASSUME WHEN THESE SPACES ARE OCCUPIED, OTHER SPACES ARE NOT

OCCUPANCY = 939 (ASSUME 470 MEN 470 WOMEN)

1 FIXTURE PER 50 OCC., 1 DRINKING FOUNTAIN PER 100 OCCUPANTS, 1 SERVICE SINK

ADDITIONAL 2 UNISEX TOILETS, 2 UNISEX LAVATORIES, 5 DRINKING FOUNTAINS PROVIDED AS PART OF THIS PROJECT

4 - FIRE-RESISTANCE-RATED CONSTRUCTION

CONSTRUCTION CLASSIFICATION:	IIA
FIRE RATINGS:	
PRIMARY STRUCTURAL FRAME:	1 HR
WALLS	
BEARING:	1 HR
NON-BEARING:	0 HR
FLOORS:	1 HR
ROOFS:	1 HR

NYS BC TABLES 508.2 / 705.4 / 706.3.9 / 1017.1
***SED S106-3**

ASSEMBLY	FIRE-RESISTANCE	LOCATION
FIRE WALL	2 HOURS	NONE
FIRE BARRIER	2 HOURS	BOILER ROOM* BASEMENT STORAGE ROOMS* EQUIPMENT ROOMS* TRANSFORMER ROOM
	1 HOUR	STAIR ENCLOSURES STORAGE ROOMS >100SF
FIRE PARTITION	1 HOUR	NONE (SPRINKLERED)
HORIZONTAL SEPARATION	2 HOURS 1 HOUR	BETWEEN FIRE AREAS FLOOR/CEILING ASSEMBLIES
SMOKE BARRIER	1 HOUR	SMOKE ZONES
SMOKE PARTITION	NONE	CORRIDORS

5 - ENERGY CODE COMPLIANCE (IECC 2020)

COUNTY:	WESTCHESTER
CLIMATE ZONE:	4
GLAZED AREAS (≤ 40" OF ABOVE GRADE ENVELOPE)	NO CHANGE (EXISTING)
OPAQUE THERMAL ENVELOPE REQUIREMENTS	TABLE C402.1.3-4
ROOF: ATTIC AND OTHER	R-38 MIN
ROOF: INSULATION ENTIRELY ABOVE DECK	R-30 MIN
WALLS - ABOVE GRADE: MASS	R-9.5ci MIN
WALLS - ABOVE GRADE: METAL FRAMED	R-13 + R-7.5ci MIN
WALLS - BELOW GRADE: MASS	R-7.5ci MIN
FLOORS: MASS	R-10ci MIN
SLAB ON GRADE FLOORS	R-10 MIN FOR 24"
OPAQUE DOORS: SWINGING	U-0.61 MAX
VERTICAL FENESTRATION	TABLE 402.4
FIXED FENESTRATION	U-0.38 MAX
OPERABLE FENETRATION	U-0.45 MAX
ENTRANCE DOORS	U-0.77 MAX
SHGC	U-0.40 MAX

6 - MEANS OF EGRESS

EXIT TRAVEL DISTANCE:	
NYS BC TABLE 1016.1	200' MAX UNSPRINKLERED 250' MAX SPRINKLERED
SED MPS	150' TO EXT DOOR FROM CORRIDOR 120' TO STAIR ENCLOSURE FROM CORRIDOR 50' TO EXIT FROM ALL ROOMS 1500 SF & UNDER 75' TO SEPARATE SMOKE ZONE IN OPEN PLANNED AREAS NO DEAD-END CORRIDORS (<1.5 x WIDTH, MAX 20')
OCCUPANCY LOADS:	NYS BC TABLE 1004.1
CLASSROOMS	20 NET SF/PERSON
SHOPS & OTHER VOCATIONAL ROOMS	50 NET SF/PERSON
OFFICE AREAS	100 GROSS SF/PERSON
STORAGE	300 GROSS SF/PERSON
EXIT WIDTH	NYS BC TABLE 1005.1
STAIR WIDTH	.3"/OCCUPANT UNSPRINKLERED
OTHER EGRESS COMPONENTS	.2"/OCCUPANT UNSPRINKLERED
STAIR WIDTH	.2"/OCCUPANT SPRINKLERED
OTHER EGRESS COMPONENTS	.15"/OCCUPANT SPRINKLERED
CORRIDORS	NYS BC TABLE 1017.1
	NY SED S107
FIRE RESISTANCE RATING (NONSPRINKL.)	1 HOUR
FIRE RESISTANCE RATING (SPRINKLERED)	0 HOUR
WIDTH:	
MAIN CORRIDOR	8'-0" (CLEAR)
SECONDARY:	6'-0"
PASSAGEWAY:	44"

7 - ADDITIONAL BUILDING INFORMATION

BUILDING INFORMATION							
FLOOR AREA							
	LOWER FLOOR	1st FLOOR	2nd FLOOR	ATTIC	YEAR BUILT	CONST TYPE	NO. OF STORIES
EXISTING	19,250 SF	19,030 SF	14,850 SF	4,000 SF	1993	IIA	4
PROPOSED	125 SF	-	-	-	-	IIA	-
TOTAL FLOOR AREA (EXIST): 57,130 SF							
TOTAL FLOOR AREA (EXIST & PROPOSED): 57,255 SF							

USE & OCCUPANCY CLASSIFICATION:	EDUCATIONAL (E)
CONSTRUCTION CLASSIFICATION:	IIA (SPRINKLERED)

BUILDING HEIGHT & AREA:	PERMITTED	ACTUAL
HEIGHT	85'	58' +/-
STORIES	4	4
FLOOR AREA (EXISTING)	318,000 SF	57,700 SF
FLOOR AREA (EXIST W/ CANOPY)		57,825 SF

FIRE AREA (TYPE IIA w/ AUTOMATIC SPRINKLER SYSTEM PROVIDED)

TOTAL BUILDING AREA =	57,255 SF
TOTAL ALLOWABLE AREA =	318,000 SF (NOT INCLUDING AREA INCREASE DUE TO FRONTAGE, NOT NEEDED TO CONFIRM COMPLIANCE)
AREA CALCULATIONS:	Aa = [At + (NS x If)] x Sa Aa = [79,000] x 4 Aa = 318,000 sf

8 - UNIFORM SAFETY STANDARDS FOR SCHOOL CONSTRUCTION & MAINTENANCE PROJECTS

THE OCCUPIED PORTION OF THE EXISTING SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY.

ALL SCHOOL AREAS TO BE DISTURBED DURING RENOVATION OR DEMOLITION HAVE BEEN OR WILL BE TESTED FOR LEAD AND ASBESTOS.

GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:

(A) ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
(B) FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
(C) GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
(D) DURING EXTERIOR RENOVATION WORK, OVERHEAD PROTECTION SHALL BE PROVIDED FOR ANY SIDEWALKS OR AREAS IMMEDIATELY BENEATH THE WORK SITE OR SUCH AREAS SHALL BE FENCED OFF AND PROVIDED WITH WARNING SIGNS TO PREVENT ENTRY.
(E) WORKERS SHALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES.

SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED SPACES:

CONSTRUCTION AREAS WHICH ARE UNDER THE CONTROL OF A CONTRACTOR AND THEREFORE NOT OCCUPIED BY DISTRICT STAFF OR STUDENTS SHALL BE SEPARATED FROM OCCUPIED AREAS. PROVISIONS SHALL BE MADE TO PREVENT THE PASSAGE OF DUST AND CONTAMINANTS INTO OCCUPIED PARTS OF THE BUILDING. PERIODIC INSPECTION AND REPAIRS OF THE CONTAINMENT BARRIERS MUST BE MADE TO PREVENT EXPOSURE TO DUST OR CONTAMINANTS. GYPSUM BOARD MUST BE USED IN EXIT WAYS OR OTHER AREAS THAT REQUIRE FIRE RATED SEPARATION. HEAVY DUTY PLASTIC SHEETING MAY BE USED ONLY FOR A VAPOR, FINE DUST OR AIR INFILTRATION BARRIER, AND SHALL NOT BE USED TO SEPARATE OCCUPIED SPACES FROM CONSTRUCTION AREAS.

(A) A SPECIFIC STAIRWELL AND/OR ELEVATOR SHOULD BE ASSIGNED FOR CONSTRUCTION WORKER USE DURING WORK HOURS. IN GENERAL, WORKERS MAY NOT USE CORRIDORS, STAIRS OR ELEVATORS DESIGNATED FOR STUDENTS OR SCHOOL STAFF.
(B) LARGE AMOUNTS OF DEBRIS MUST BE REMOVED BY USING ENCLOSED CHUTES OR A SIMILAR SEALED SYSTEM. THERE SHALL BE NO MOVEMENT OF DEBRIS THROUGH HALLS OF OCCUPIED SPACES OF THE BUILDING. NO MATERIAL SHALL BE DROPPED OR THROWN OUTSIDE THE WALLS OF THE BUILDING.
(C) ALL OCCUPIED PARTS OF THE BUILDING AFFECTED BY RENOVATION ACTIVITY SHALL BE CLEANED AT THE CLOSE OF EACH WORKDAY. SCHOOL BUILDINGS OCCUPIED DURING A CONSTRUCTION PROJECT SHALL MAINTAIN REQUIRED HEALTH, SAFETY AND EDUCATIONAL CAPABILITIES AT ALL TIMES THAT CLASSES ARE IN SESSION.

A PLAN DETAILING HOW EXITING REQUIRED BY THE APPLICABLE BUILDING CODE WILL BE MAINTAINED.

A PLAN DETAILING HOW ADEQUATE VENTILATION WILL BE MAINTAINED DURING CONSTRUCTION.

CONSTRUCTION AND MAINTENANCE OPERATIONS SHALL NOT PRODUCE NOISE IN EXCESS OF 60 DBA IN OCCUPIED SPACES OR SHALL BE SCHEDULED FOR TIMES WHEN THE BUILDING OR AFFECTED BUILDING SPACES ARE NOT OCCUPIED OR ACOUSTICAL ABATEMENT MEASURES SHALL BE TAKEN.

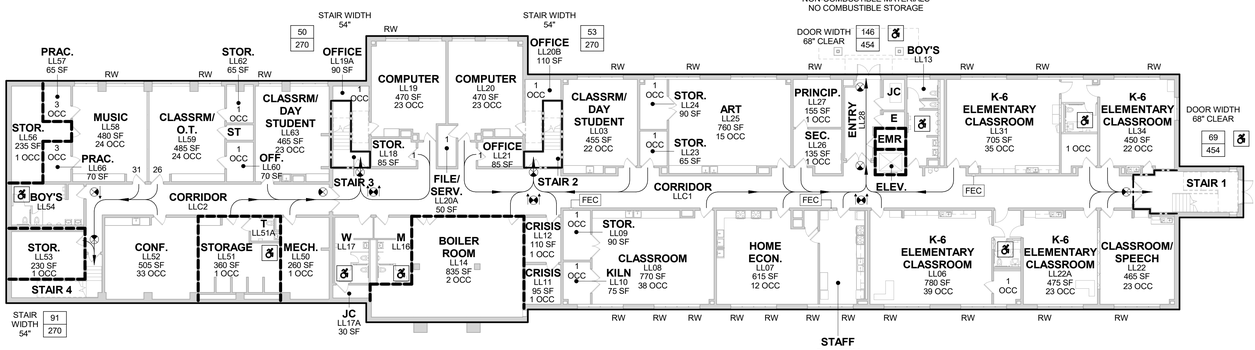
THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASES, AND OTHER CONTAMINATES PRODUCED BY WELDING, GASOLINE OR DIESEL ENGINES, ROOFING, PAVING, PAINTING, ETC. TO ENSURE THEY DO NOT ENTER OCCUPIED PORTIONS OF THE BUILDING OR AIR INTAKES.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ACTIVITIES AND MATERIALS WHICH RESULT IN "OFF-GASSING" OF VOLATILE ORGANIC COMPOUNDS SUCH AS GLUES, PAINTS, FURNITURE, CARPETING, WALL COVERING, DRAPERY, ETC. ARE SCHEDULED, CURED OR VENTILATED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BEFORE A SPACE CAN BE OCCUPIED.

LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE BUILDING IS OCCUPIED". NOTE, IT IS OUR INTERPRETATION THAT THE TERM "BUILDING", AS REFERENCED IN THIS SECTION, MEANS A WING OR MAJOR SECTION OF A BUILDING THAT CAN BE COMPLETELY ISOLATED FROM THE REST OF THE BUILDING WITH SEALED NON COMBUSTIBLE CONSTRUCTION. THE ISOLATED PORTION OF THE BUILDING MUST CONTAIN EXITS THAT DO NOT PASS THROUGH THE OCCUPIED PORTION AND VENTILATION SYSTEMS MUST BE PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER.
EXTERIOR WORK SUCH AS ROOFING, FLASHING, SIDING, OR SOFFIT WORK MAY BE PERFORMED ON OCCUPIED BUILDINGS PROVIDED PROPER VARIANCES ARE IN PLACE AS REQUIRED, AND COMPLETE ISOLATION OF VENTILATION SYSTEMS AND AT WINDOWS IS PROVIDED. CARE MUST BE TAKEN TO SCHEDULE WORK SO THAT CLASSES ARE NOT DISRUPTED BY NOISE OR VISUAL DISTRACTION.

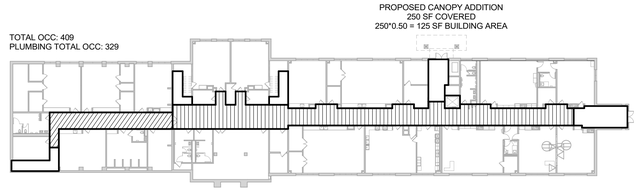
SURFACES THAT WILL BE DISTURBED BY RECONSTRUCTION MUST HAVE A DETERMINATION MADE AS TO THE PRESENCE OF LEAD. PROJECTS WHICH DISTURB SURFACES THAT CONTAIN LEAD SHALL HAVE IN THE SPECIFICATIONS A PLAN PREPARED BY A CERTIFIED LEAD RISK ASSESSOR OR SUPERVISOR WHICH DETAILS PROVISIONS FOR OCCUPANT PROTECTION, WORKSITE PREPARATION, WORK METHODS, CLEANING AND CLEARANCE TESTING WHICH ARE IN GENERAL ACCORDANCE WITH THE HUD GUIDELINES.

9 - CODE COMPLIANCE PLAN

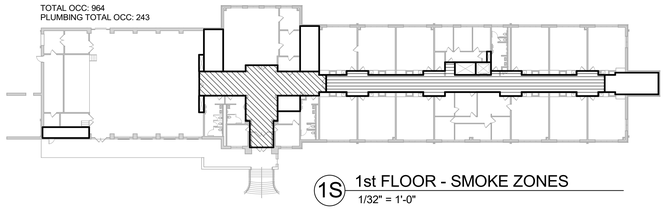


L LOWER FLOOR CODE COMPLIANCE PLAN
1/16" = 1'-0"

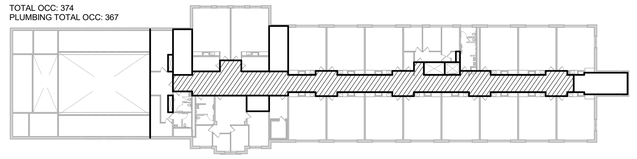
10 - SMOKE ZONES



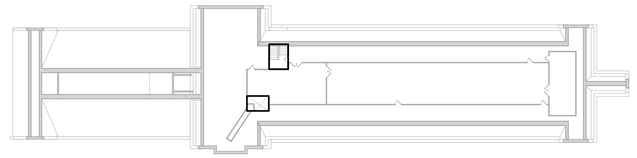
LS LOWER FLOOR - SMOKE ZONES
1/32" = 1'-0"



1S 1st FLOOR - SMOKE ZONES
1/32" = 1'-0"



2S 2nd FLOOR - SMOKE ZONES
1/32" = 1'-0"



3S ATTIC - SMOKE ZONES
1/32" = 1'-0"

BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

1 Echo Hill Drive - Building #36
Dobbs Ferry, NY 10522

KG+D listen imagine build
KG+D ARCHITECTS, PC
285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

LEGEND

- 2 HR FIRE BARRIER
- 1 HR FIRE BARRIER
- MEANS OF EGRESS PATHWAY
- RW RESCUE WINDOW
- FEC EXISTING FIRE EXTINGUISHER CABINET
- AR AREA OF REFUGE
- X / Y ACTUAL EGRESS OCCUPANCY LOAD / MAXIMUM ALLOWABLE EGRESS OCCUPANCY LOAD
- ADA ACCESSIBLE ELEMENT

Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2020	SED ISSUE

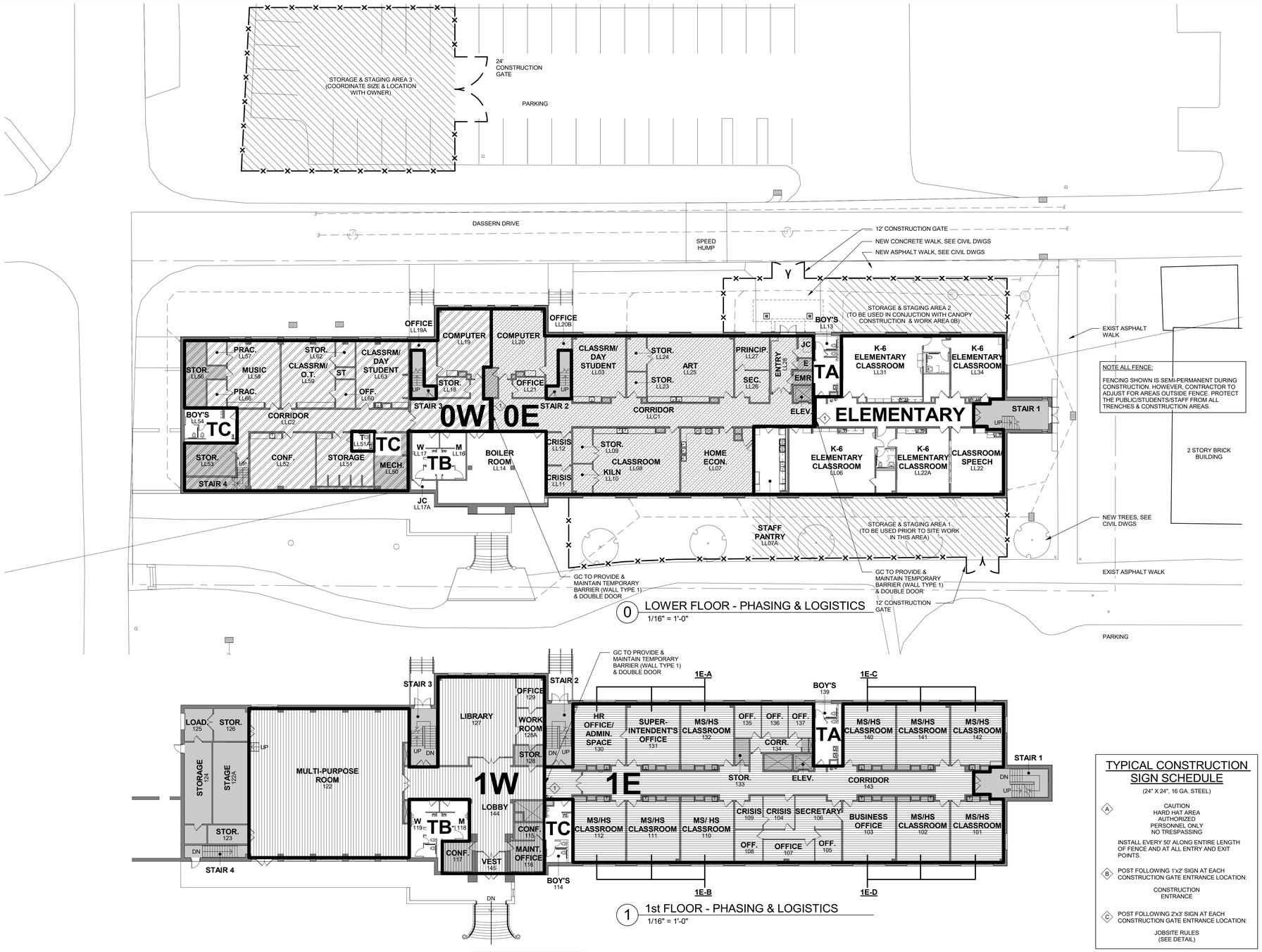
Sheet Title

CODE COMPLIANCE INFORMATION

Job No. 2019-1029	Date 01/17/2020
Scale AS NOTED	Drawn / Checked RC

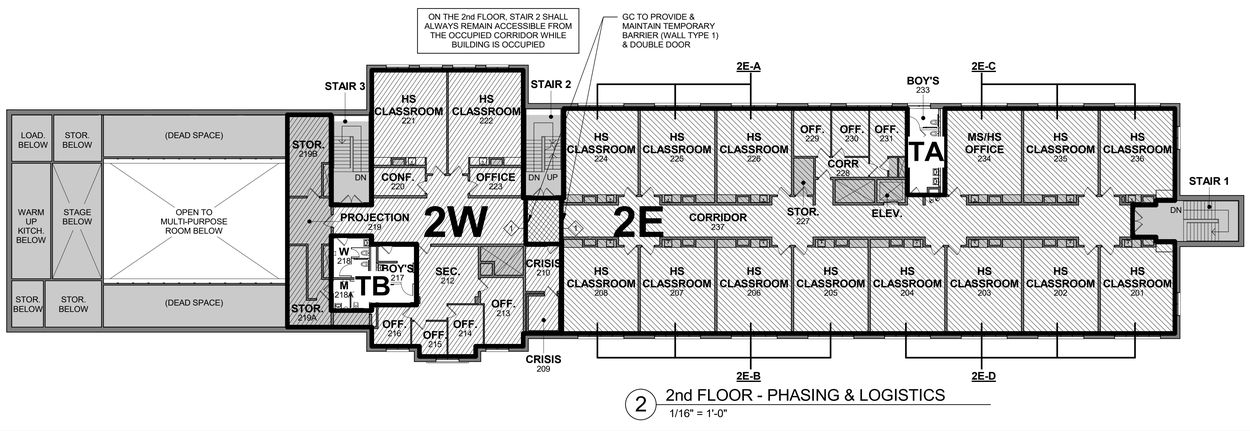
Sheet Number

CC-1



0 LOWER FLOOR - PHASING & LOGISTICS
1/16" = 1'-0"

1 1st FLOOR - PHASING & LOGISTICS
1/16" = 1'-0"



2 2nd FLOOR - PHASING & LOGISTICS
1/16" = 1'-0"

PHASING NOTES

1 LOWER FLOOR ELEMENTARY WING MAY REMAIN CLOSED THROUGHOUT THE DURATION OF CONSTRUCTION

2 CLASSROOM/CORRIDOR FINISHES, MECHANICAL & ELECTRICAL WORK AREAS. ONE AREA PER FLOOR IS ABLE TO BE TEMPORARILY SHUT DOWN WHILE MAINTAINING PROPER EGRESS FOR THE REMAINDER OF THE BUILDING (SCHEDULE & SEQUENCE TO BE COORDINATED WITH OWNER & ARCHITECT):

- **0W** WORK AREA 0W - LOWER FLR WEST
- **0E** WORK AREA 0E - LOWER FLR EAST (SUMMER CONSTRUCTION) (COINCIDE WITH CANOPY WORK)
- **1W** WORK AREA 1W - 1st FLOOR WEST (SUMMER CONSTRUCTION)
- **1E** WORK AREA 1E - 1st FLOOR EAST (CORRIDOR TO REMAIN OPERATIONAL DURING SCHOOL YEAR. CLASSROOM RENOVATION GROUPS **1E-A**, **1E-B**, **1E-C** & **1E-D** MAY BE SEQUENCED TO BE COMPLETED DURING THE SCHOOL YEAR. CORRIDOR WORK TO BE SUMMER CONSTRUCTION)
- **2W** WORK AREA 2W - 2nd FLOOR WEST
- **2E** WORK AREA 2E - 2nd FLOOR EAST (CORRIDOR TO REMAIN OPERATIONAL DURING SCHOOL YEAR. CLASSROOM RENOVATION GROUPS **2E-A**, **2E-B**, **2E-C** & **2E-D** MAY BE SEQUENCED TO BE COMPLETED DURING THE SCHOOL YEAR. CORRIDOR WORK TO BE SUMMER CONSTRUCTION)

3 SUMMER CONSTRUCTION:
MULTI-PURPOSE ROOM
ROOF, LEADERS, & RTUS
CANOPY
SITE IMPROVEMENTS
FUEL OIL PIPE REPLACEMENT
BACK FLOW PREVENTOR
UTILITY SUB-METER
HOT WATER PUMP & COIL REPLACEMNT

4 TOILET ROOM RENOVATION GROUPS (SCHEDULE & SEQUENCE TO BE COORDINATED WITH OWNER & ARCHITECT):

- **TA** GROUP TA: LL13, 139, 233 (STACKED FLOOR TO FLOOR)
- **TB** GROUP TB: LL16, LL17, 118, 119, 217, 218, 218A (STACKED FLOOR TO FLOOR) (SUMMER CONSTRUCTION)
- **TC** GROUP TC: LL54, LL51A, 114 (NOT STACKED)

TYPICAL CONSTRUCTION SIGN SCHEDULE

(24" X 24", 16 GA. STEEL)

A
CAUTION
HARD HAT AREA
AUTHORIZED PERSONNEL ONLY
NO TRESPASSING

INSTALL EVERY 50' ALONG ENTIRE LENGTH OF FENCE AND AT ALL ENTRY AND EXIT POINTS.

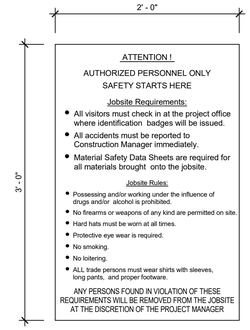
B POST FOLLOWING 1'x2' SIGN AT EACH CONSTRUCTION GATE ENTRANCE LOCATION:

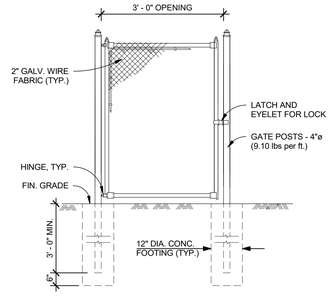
CONSTRUCTION ENTRANCE

C POST FOLLOWING 2'x3' SIGN AT EACH CONSTRUCTION GATE ENTRANCE LOCATION:

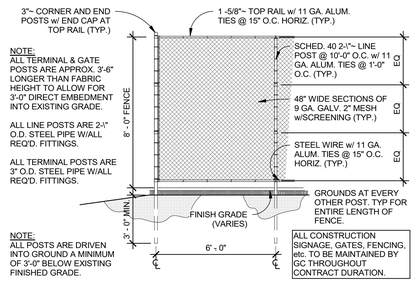
JOBSITE RULES (SEE DETAIL)

3 JOBSITE RULES SIGN DETAIL
NTS

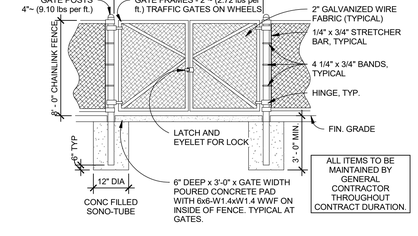




4 TEMPORARY 3' SWING GATE
NTS



5 DETAIL @ CONSTRUCTION FENCE PANELS
NTS



6 DETAIL @ CONSTRUCTION GATE
NTS

BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

1 Echo Hill Drive - Building #36
Dobbs Ferry, NY 10522

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285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
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KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

LEGEND

1 DENOTES AREA OF NO MAJOR ARCHITECTURAL RENOVATION WORK, SPECIFIC WORK MAY BE SHOWN ELSEWHERE, REFER TO M.E.P. DWGS.

2 STAGING AREA:
GC TO PROVIDE TEMPORARY CONSTRUCTION ROAD/LAYDOWN AREAS. GC TO SCRAPE AND STOCKPILE TOPSOIL PRIOR TO INSTALLATION. ALL AREAS TO BE RESTORED AS REQUIRED BY CONSTRUCTION SCHEDULE.

3 DENOTES FENCE:
GC TO PROVIDE 8'-0" HIGH INDUSTRIAL CHAIN LINK FENCE & GATE AS SHOWN ON DWGS. (EXACT LOCATION OF FENCING TO BE VERIFIED WITH OWNER AND CM) THIS FENCING SHALL BE CONSTRUCTED OF NINE GAUGE GALV. STEEL WIRE w/ 2\" GALV. LIRE POST & 3" END/CORNER POST. WITH HARDWARE & LOCKS. ALL FENCING SHALL HAVE A CLOTH WOVEN, BLIND SCREEN MESH INSTALLED ON THE "PUBLIC" SIDE OF THE FENCE. MESH TO BE DARK GREEN OR BLACK. WHEN DIRECTED BY THE CM, THE SAME CONTRACTOR SHALL REMOVE AND DISPOSE OF THIS FENCING AND ALL RELATED MATERIALS.

4 DENOTES EXISTING WALL TO REMAIN

5 DENOTES NEW WALL

ALL TEMPORARY BARRIERS AS NOTED ON THE PHASING PLANS SHALL BE PROVIDED, MAINTAINED, & REMOVED BY THE GC AT THE DIRECTION OF THE CM

6 DENOTES EXISTING DOOR TO REMAIN (U.N.O.)

7 DENOTES NEW DOOR, FRAME, & HARDWARE

8 GC TO PROVIDE 3' WIDE PEDESTRIAN GATE

9 GC TO PROVIDE VEHICLE GATE OF INDICATED WIDTH

Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID

Sheet Title

PHASING & LOGISTICS

Job No.	Date
2019-1029	11/06/2020
Scale	Drawn / Checked
AS NOTED	-

Sheet Number

PH101

GENERAL NOTES

1. THE EXISTING TOPOGRAPHY & SITE INFORMATION SHOWN ON THESE DRAWINGS WERE OBTAINED FROM 1991 CONSTRUCTION DRAWINGS & 2019 FIELD OBSERVATIONS.

UTILITY LOCATIONS AND THEIR APPURTENANCES AS SHOWN ON THE DRAWINGS WERE DETERMINED FROM FIELD LOCATIONS AND SURFACE MOUNTED FEATURES VISIBLE AT THE TIME OF THE SURVEY. ALL EXISTING SUBSURFACE UTILITIES SHOWN WERE APPROXIMATED FROM SURFACE FEATURES. ADDITIONAL UNDERGROUND UTILITY LOCATIONS WERE OBTAINED FROM RECORD DESIGN DRAWINGS. THE LOCATION, SIZE AND TYPE OF EXISTING UTILITIES ARE APPROXIMATE ONLY AND MAY DIFFER FROM WHAT IS SHOWN HEREON. THERE MAY BE OTHER UNDERGROUND FACILITIES. THE EXISTENCE OF WHICH MUST BE DETERMINED AND VERIFIED BY THE CONTRACTOR PRIOR TO ANY CONSTRUCTION.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO IDENTIFY AND PROTECT ALL UNDERGROUND FACILITIES. CONTRACTOR SHALL CONTACT DIG SAFELY NEW YORK AT 811 OR 1-800-962-7962 AND ANY OTHER REQUIRED UTILITY LOCATORS PRIOR TO THE START OF CONSTRUCTION.

2. CONTRACTOR SHALL FIELD VERIFY THE LOCATION, SIZE, TYPE AND ELEVATION OF EXISTING IMPROVEMENTS AHEAD OF CONSTRUCTION AS NECESSARY TO PERMIT REVISIONS TO MEET EXISTING IMPROVEMENTS WITH NEW WORK OR RELOCATE FACILITIES AS REQUIRED. ANY DISCREPANCY IN ELEVATIONS OR LOCATIONS SHALL BE REPORTED TO THE OWNER AND ARCHITECT WHEN IDENTIFIED. HORIZONTAL AND VERTICAL ALIGNMENTS SHALL BE PERFORMED AND ALL PROJECT RELATED LINES AND GRADES SHALL BE ESTABLISHED BY A LAND SURVEYOR LICENSED TO PRACTICE IN THE NEW YORK STATE.

3. THE WORK SHOWN ON THE SITE DRAWINGS INCLUDES, BUT IS NOT LIMITED TO: DEMOLITION, REMOVAL OF CONCRETE, CONCRETE CURBS, ASPHALT PAVEMENTS, EXCAVATION, SAW CUTTING, GRADING, INSTALLATION OF ASPHALT PAVEMENT, INSTALLATION OF CONCRETE PAVING, RESURFACING OF EXISTING ASPHALT PAVEMENT, PLANTING, AND RESTORATION OF DISTURBED AREA.

4. THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SO THAT ANY MATERIALS WHICH ARE TO REMAIN IN PLACE, OR WHICH ARE TO REMAIN THE PROPERTY OF GREENBURGH ELEVEN UFS, CHILDREN'S VILLAGE, VILLAGE OF DOBBS FERRY, NYSDOT, WESTCHESTER COUNTY AND SURROUNDING PROPERTY OWNERS SHALL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN, THE DAMAGED MATERIALS SHALL BE REPAIRED OR REPLACED IN A MANNER SATISFACTORY TO THE RESPECTIVE OWNER AT THE EXPENSE OF THE CONTRACTOR.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR GUARDING AND PROTECTING ALL OPEN EXCAVATIONS IN ACCORDANCE WITH THE PROVISIONS OF SECTION 107.05 OF THE N.Y.S.D.O.T STANDARD SPECIFICATIONS, LATEST EDITION AND CURRENT OSHA REQUIREMENTS.

6. AREAS OF EXISTING PAVEMENT TO REMAIN, EXISTING PAVEMENT TO BE REMOVED AND NEW PAVEMENT ARE SHOWN ON DWG. C1. THE AREAS SO INDICATED ARE SCHEMATIC AND DO NOT NECESSARILY REPRESENT ALL AREAS TO BE REPLACED, REMOVED OR AREAS OF NEW PAVEMENT.

7. WHEN PAVEMENT SAW CUTTING IS REQUIRED THE DEPTH WILL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON THE PLANS: ASPHALT –FULL DEPTH

8. EXISTING PAVEMENT THAT IS TO REMAIN AND WHICH IS REMOVED OR DAMAGED DURING THE CONSTRUCTION WORK OF THIS CONTRACT IS TO BE RESTORED TO ITS ORIGINAL CONDITION.

9. ALL EXISTING VEGETATION NOT PROPOSED TO BE REMOVED SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION, AND IF DAMAGED REPLACED AT THE CONTRACTOR'S EXPENSE TO ORIGINAL, PRE-CONSTRUCTION CONDITION.

10. ALL EXISTING PAVEMENTS AND CURBS NOT PROPOSED TO BE REMOVED SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION, AND IF DAMAGED REPLACED AT THE CONTRACTOR'S EXPENSE TO ORIGINAL, PRE-CONSTRUCTION CONDITION.

11. UNLESS OTHERWISE SHOWN ON THE DRAWINGS THE CONTRACTOR SHALL MATCH THE MATERIAL, THICKNESS AND QUALITY OF ALL EXISTING PAVEMENTS THAT ARE TO BE REPLACED.

12. ALL UNPAVED AREAS WITHIN THE WORK AREAS, NOT PART OF A PLANTING BED, AND DISTURBED DURING CONSTRUCTION SHALL BE TOPSOILED and SEEDED. UNLESS OTHERWISE DIRECTED BY THE OWNER, TURFED AREAS, DISTURBED BY GRADING, OTHER WORK OF CONTRACTOR and/or DISTURBED ACCIDENTALLY SHALL BE BROUGHT TO THE PROPER SUBGRADE ELEVATION, FINE GRADED, TOPSOILED TO A MINIMUM DEPTH OF 6 INCHES; LIME, FERTILIZER and SEED SHALL BE APPLIED AS SPECIFIED. CONTRACTOR SHALL WATER AND MAINTAIN THE SEEDED AREAS UNTIL THEY HAVE BECOME WELL ESTABLISHED.

13. WHEN STRUCTURES ARE TO BE PLACED ON EXISTING UTILITY LINES OR WHERE THE PROPOSED UTILITY LINES ARE ASSUMED TO CROSS EXISTING UTILITIES, THE CONTRACTOR SHALL LOCATE THE EXISTING UTILITY AND SHALL VERIFY ITS EXISTING INVERT ELEVATION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IF DIFFERENT UTILITY INVERT ELEVATIONS OR LOCATIONS ARE REVEALED BY FIELD EXPLORATIONS.

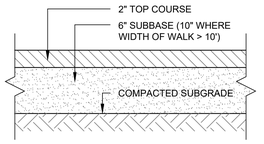
14. ALL EXISTING UTILITY FRAMES WITH GRATES OR COVERS AND ALL APPURTENANCES IF ANY TO REMAIN WITHIN THE "CLL" LINE, SHALL BE RESET TO MEET THE NEW GRADE.

15. THE CONTRACTOR SHALL COORDINATE ITS WORK WITH ANY OTHER CONSTRUCTION ACTIVITIES AND/OR EVENTS OCCURRING SIMULTANEOUSLY ON THE PROPERTY. SAFE AND ADEQUATE PEDESTRIAN & VEHICULAR TRAFFIC FLOW SHALL BE MAINTAINED AT ALL TIMES TO THE EXISTING BUILDINGS, WHILE THE WORK IS IN PROGRESS. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL OF THE ARCHITECT, A CONSTRUCTION SEQUENCE SCHEDULE AND PLAN FOR PEDESTRIAN AND VEHICULAR TRAFFIC FLOW. THE CONTRACTOR SHALL SUBMIT TRAFFIC MAINTENANCE PLAN FOR WORK AREA WITHIN GRANITE ROAD TO NYSDOT and VILLAGE OF CHAPPAQUA FOR REVIEW, APPROVAL.

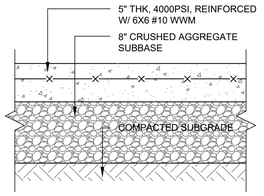
16. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT 72 HOURS PRIOR TO START OF WORK. ALL WORK and MATERIALS SHALL BE IN ACCORDANCE WITH THESE CONTRACT DRAWINGS and PROJECT SPECIFICATIONS. THEY WILL CONFORM TO THE APPLICABLE REQUIREMENTS OF: WESTCHESTER COUNTY DEPARTMENT OF HEALTH, WESTCHESTER COUNTY DEPARTMENT OF PUBLIC WORKS, NYSDOT, VILLAGE OF CHAPPAQUA; BUILDING DEPARTMENT, DEPARTMENT OF PUBLIC WORKS AND FIRE DEPARTMENT, AND UTILITY COMPANIES AS APPLICABLE.

17. DURING AND AFTER THE PROJECT COMPLETION, THE CONTRACTOR SHALL MAINTAIN THE CONSTRUCTION SITE FREE OF DEBRIS, DEMOLITION DEBRIS, DEMOLISHED PAVEMENT, AND MISCELLANEOUS UNSUITABLE MATERIAL. THE CONTRACTOR SHALL ARRANGE FOR DISPOSAL OF SUCH MATERIAL AT A LEGAL OFF-SITE LOCATION.

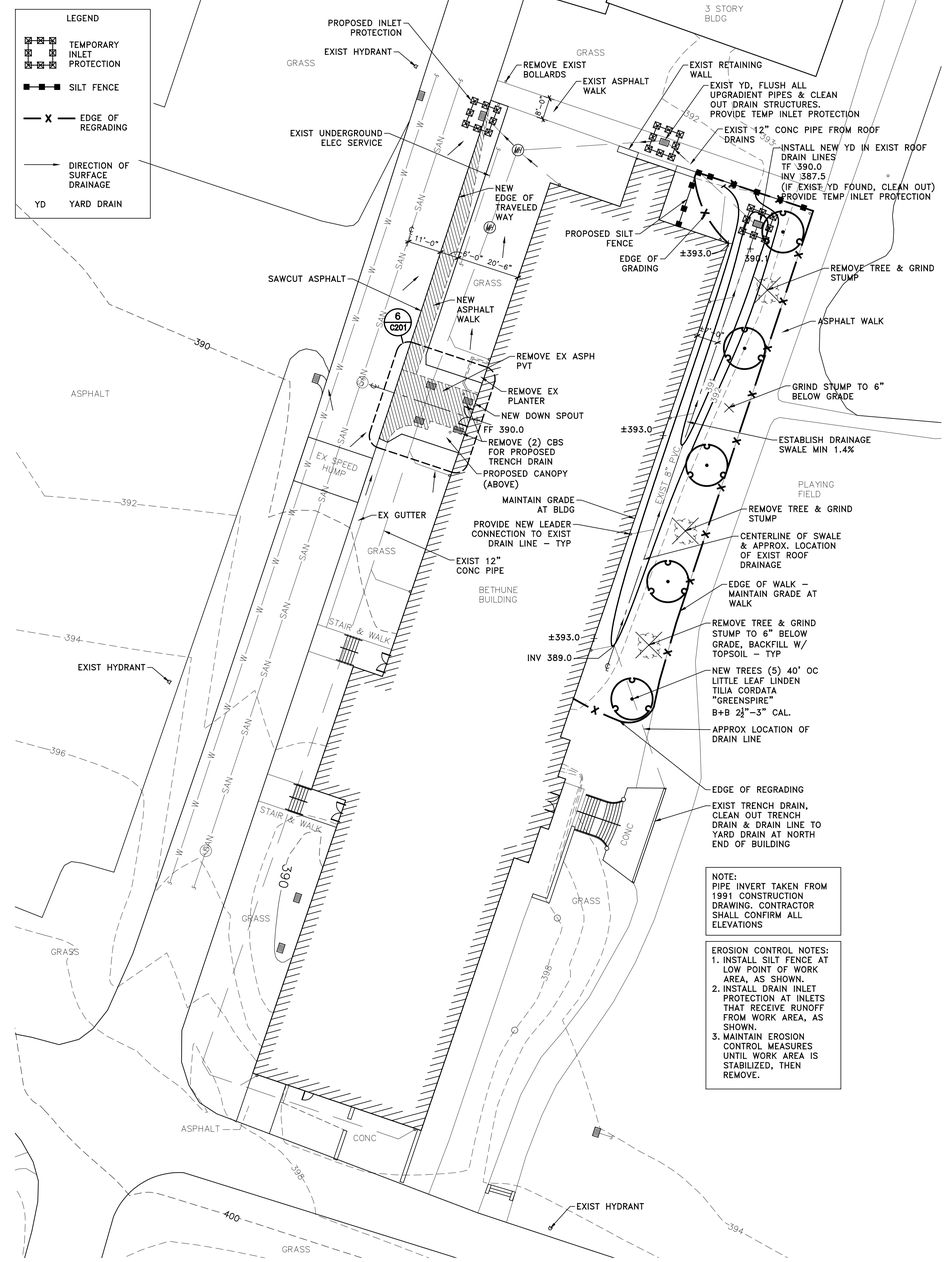
18. UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE IN A DIGITAL FORMAT "AS CONSTRUCTED" DRAWINGS SHOWING LOCATIONS AND ELEVATION OF ALL FEATURES INSTALLED.



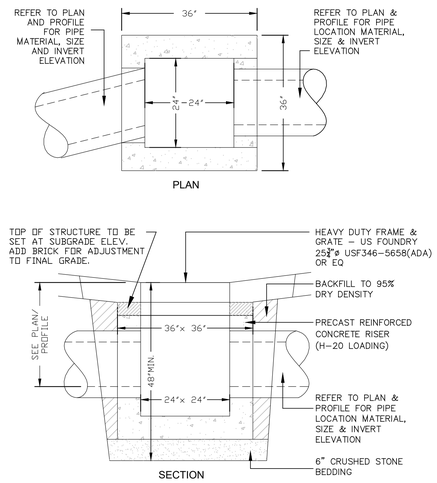
8 ASPHALT PAVEMENT
SCALE: NTS



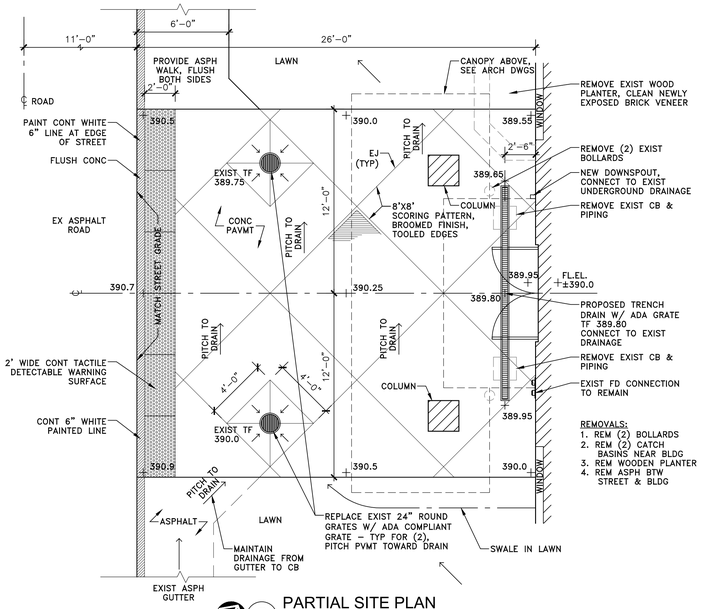
7 CONCRETE PAVEMENT
SCALE: NTS



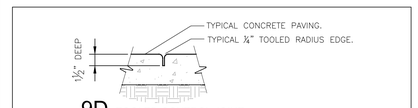
3 SITE PLAN
SCALE: 1" = 20'



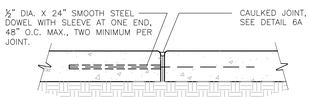
10 YARD DRAIN (YD)
SCALE: NTS



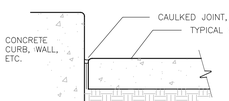
6 PARTIAL SITE PLAN
SCALE: 1/4" = 1'



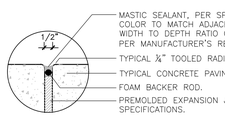
9D TOOLED CONTROL JOINT



9C DOWELED EXPANSION JOINT

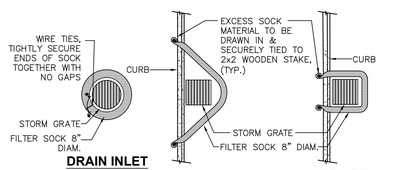


9B CONCRETE PAVING AT VERTICAL PLANE



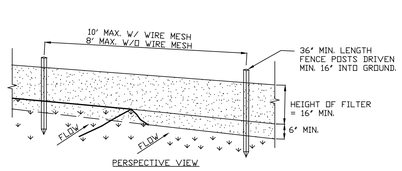
9A ENLARGED TYPICAL CAULKED JOINT

9 TYPICAL CONCRETE PAVING JOINT DETAILS
SCALE: NTS



NOTES:
1. ALL MATERIAL TO MEET FILTER SOCK SPECIFICATIONS.
2. FILTER MEDIA FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ARCHITECT.

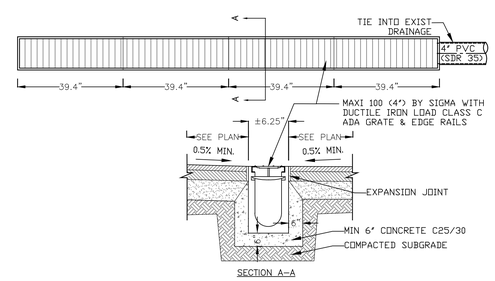
5 INLET PROTECTION
SCALE: NTS



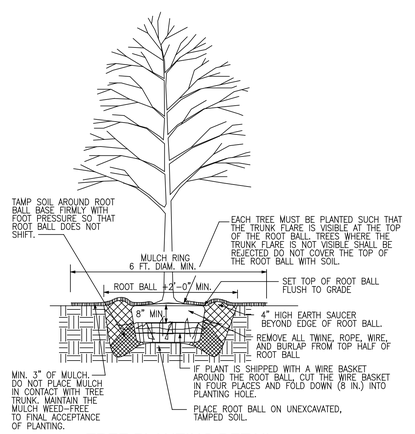
CONSTRUCTION SPECIFICATIONS

1. POSTS SHALL BE STEEL EITHER "T" OR "U" TYPE OR HARDWOOD.
2. FILTER CLOTH TO BE FASTENED SECURELY TO POSTS.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.
4. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAFI 100X, STABILINKA T140N, OR APPROVED EQUIVALENT.
5. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN BULGES" DEVELOP IN THE SILT FENCE.

4 SILT FENCE
SCALE: NTS



2 WALKWAY TRENCH DRAIN
SCALE: NTS



1 TREE PLANTING DETAIL
SCALE: NTS

BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

1 Echo Hill Drive - Building #36
Dobbs Ferry, NY 10522

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NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2020	SED ISSUE

Sheet Title

SITE PLAN & DETAILS

Job No.	Date
2019-1029	01/17/2020
Scale	Drawn / Checked
AS NOTED	RC / FW

Sheet Number

C201

General Notes:

1 The purpose of these drawings is to show the structural work associated with the addition of Greenburgh Eleven UFSD School.
2 The work shown on these drawings has been designed in accordance with the structural requirements of 2017 edition of the New York State Uniform Fire Prevention and Building Code which is the 2015 International Building Code with the 2017 Uniform Code Supplement.
3 The structural components have been designed for the following loads:
A. Roof loads:
Snow:
Ground snow load, p_g 30 psf
Flat roof snow load, p_f 30 psf*
Exposure factor, C_e 1.0
Importance factor, I_s 1.0
Thermal factor, C_t 1.0
Drift surcharge load, p_d 44 psf
Width of snow drift, W 9.6 feet
Rain loads: in accordance with Section 1611
Roof live load: 20 psf min
*Note: the flat roof snow load shall be no less than 30 psf.
B. Wind design data:
Wind loads have been determined based on Section 1609.1.1 in accordance with ASCE 7-10, Chapters 26, 27, 29 and 30, Directional Procedure
risk category III
Basic wind speed (3-second gust):
Ultimate design wind speed, Vult 125 mph
Nominal design wind speed, Vasd 97 mph
Exposure B
Internal pressure coefficient 0.18
"a" dimension for use with components and cladding 10 ft
Design wind pressure (Nominal design wind pressures) for components and cladding on building walls (use Zone 4 generally; use Zone 5 within "a" of building wall corners):

	Surface pressure (psf)			
Area	10 sq.ft	20 sq. ft.	50 sq. ft.	100 sq. ft.
Negative Zone 4	-19.0	-18.2	-17.1	-16.3
Negative Zone 5	-23.4	-21.8	-19.7	-18.2
Positive Zones 4 & 5	17.5	16.7	15.7	14.9

Design wind pressure (Nominal design wind pressures) for components and cladding on building roofs (for locations of zones 1, 2 and 3, refer to building code):

	Surface pressure (psf)			
Area	10 sq.ft	20 sq. ft.	50 sq. ft.	100 sq.ft.
Negative Zone 1	-21.9	-18.2	-17.1	-16.3
Negative Zone 2	-26.4	-24.6	-22.2	-20.4
Negative Zone 3	-45.6	-41.6	-36.3	-32.3
Positive all zones	10.0	10.0	10.0	10.0

Wind design for existing buildings:
Not required since the proposed additions do not increase the demand-capacity ratio of any wind load carrying structural element by more than 10 percent cumulative since the original construction.
C. Earthquake design data:
Risk category III
Seismic importance factor, I_e: 1.1
Mapped short period spectral response accelerations, S_s: 0.277g
Mapped 1 second period spectral response accelerations, S_1: 0.072g
Site class: D
Design short period spectral response accelerations, S_{DS}: 0.291g
Design 1 second period spectral response accelerations, S_{D1}: 0.116g
Seismic design category: B
Seismic force resisting system: Cantilevered column systems detailed to conform to the requirements for steel ordinary cantilever column systems
Design base shear: 2.5 KIPS
Seismic response coefficient, C_s: 0.291
Response modification factor, R: 1.25
Deflection amplification factor, C_d 1.25
Analysis procedure: Equivalent Lateral Force
Earthquake design for existing buildings:
Not required since the proposed additions do not increase the demand-capacity ratio of any seismic load carrying structural element by more than 10 percent cumulative since the original construction.
D. Existing buildings:
For existing structural elements carrying gravity loads, the proposed additions do not increase the stress in any structural element by more than 5 percent nor do they decrease the strength of any structural element to less than required by the building code for new structures.
4 This structure has been designed to be self-supporting and stable after the work shown on these drawings has been completed. The stability of the structure prior to completion is solely the responsibility of the contractor. This responsibility extends to all related aspects of the construction activity including, but not limited to, erection methods, erection sequence, temporary bracing, forms, shoring, use of equipment, and similar construction procedures. Review of the construction by the engineer is for conformance with design aspects only, not to review the contractor's construction procedures. Lack of comment on the part of the engineer with regard to construction procedures is not to be interpreted as approval of those procedures.
5 This structure utilizes cantilevered column systems to provide lateral stability. Therefore, temporary bracing, guys, etc., must be maintained until all bracing and moment frames have been erected.
6 Shoring note: The contractor is responsible for designing, providing and installing all temporary shoring that is required to support instabilities of existing structure during construction and due to the removal of existing supporting walls and existing framing members for installation of new framing and foundations. Shoring shall be fully installed and stable prior to removal of existing structural elements. However, all conditions may not be shown due to hidden conditions at existing structures.
7 Jobsite safety and construction procedures are solely the responsibility of the contractor. Review of the construction by the engineer is for conformance with design aspects only, not to review the contractor's provisions for job site safety. Lack of comment by the engineer is not to be interpreted as approval of those aspects of work.
8 PDF digital files of all erection and detail shop drawings for steel reinforcing bars (concrete), structural steel, and steel deck, indicating the fabricator, manufacturer, finish, layout, and all accessories, must be submitted to and be checked by the contractor and subcontractor and bear the checker's initials before submission to the architect for review prior to fabrication. Fabrication and/or delivery to the site of components prior to receiving approved shop drawings shall be at the fabricator's own risk.
9 Testing and inspection of concrete, steel reinforcing bars (concrete), structural steel, steel deck, and other work are described in the project "Statement of Special Inspections". The contractor shall review the "Statement of Special Inspections" and coordinate the scheduling of inspections with the special inspector. Uninspected work that required inspections may be rejected solely on that basis.
10 If faulty construction procedures, or material, result in defective work that requires additional engineering time to devise corrective measures, professional fees may be charged to the contractor at the standard hourly rate of additional services. Such fees may be withheld from the general contractor's payment.
11 Loads, openings and structure in any way related to requirements of other (non-structural) disciplines are shown for bidding purposes only. However, these plans do not show the full scope of openings, in roofs, floors and walls. For size and location of all openings, see architectural and mechanical drawings. Do not scale openings. The contractor shall obtain from the heating and ventilating, electrical, plumbing and other trades the final approved size and location of all openings, equipment and work to be provided for their trade for roofs, floors and walls, whether shown or not shown on structural drawings. Excess cost related to variation in requirements or equipment are not to be borne by the owner.
12 For any mechanical equipment weights used in design of supporting elements that are indicated on the drawings. Contractor shall notify the architect prior to installation of equipment if actual weight exceeds weight shown on drawings.
13 The contractor shall verify all dimensions, elevations and angles with architectural drawings and existing conditions before proceeding with any work.
14 The contractor shall field verify existing conditions before proceeding with any work. The contractor shall field verify all dimensions noted "±" that are indicated on the drawings.
15 The contractor and subcontractors shall obtain the latest copies of approved plans and surveys and they shall familiarize themselves thoroughly with these plans before commencing any work.
16 Work shown as "Typical Details" apply throughout the project as required. Work shown as "Sections" shall be considered to apply for the same and similar conditions in the building.
17 Some details of the work are shown on the architectural drawings. A careful review and study of these details are necessary before the full scope of the work can be comprehended.
18 Do not scale drawings.

Codes and Standards References

1 Concrete:
Concrete work shall conform to the requirements of:
ACI 301-10, "Specifications for Structural Concrete in Buildings" and
ACI 318-14, "Building Code Requirements for Structural Concrete".
2 Structural steel:
Design, fabrication and erection of structural steel shall conform to the "Specification for Structural Steel for Buildings" as adopted on June 22, 2010, by the American Institute of Steel Construction (AISC) and the 14th Edition of the AISC Steel Construction Manual.

Foundation notes

1 The site preparation and earthwork within the perimeter of the proposed new structure shall include, as a minimum, the complete removal of all topsoil, organic and unsuitable fill materials. Proof compact the top of the remaining excavated surface. The removed soil shall be replaced with compacted structural fill where required for the support of foundations and slabs on grade.
2 The foundations have been designed to rest on inorganic, undisturbed soil or compacted granular fill having a presumptive bearing value of 3000 psf. Such bearing strata are anticipated at the bottom of footing elevations noted on the foundation plan. All bearing strata shall be reviewed by the engineer prior to placing concrete in order to verify the presumptive bearing value.
3 In areas requiring structural fill, the fill material shall be a uniformly graded mixture of sand and gravel weighing no less than 120 pcf dry density after compaction in place. This mixture shall be uniformly graded having no stone greater than 3 inches in any one dimension, with no more than 90 percent by weight passing a 1-1/2-inch sieve, and with less than 12 percent by weight, passing a no. 200 sieve. A soils testing lab, hired by the owner, shall test each on-site or borrow soil material proposed for backfill for classification according to ASTM D 2487 and for laboratory compaction curve according to ASTM D 1557. Uniformly moisten or aerate subgrade and each backfill layer before compaction to within 2 percent of optimum moisture content. The fill material shall be placed in maximum lifts of 8 inches in loose depth for material compacted by heavy compaction equipment, and in maximum lifts of 4 inches loose depth for material compacted by hand-operated tampers. Each lift shall be compacted with appropriate equipment to a minimum of 95 percent of its maximum density at or near optimum moisture. No lifts shall be placed when weather conditions are such that the moisture content of the fill cannot be properly controlled. In placing and compacting fill and backfill material, do not damage nor displace concrete work already in place by contact from compaction machinery, by subjecting it to overturning from heavy compacting loadings, or any other cause. Place fill against such concrete at the same rate as the remainder of fill, compacting uniformly on both sides using hand - operated tampers. A soils testing lab, hired by the owner, shall test compaction of soils in place according to ASTM D 1556, ASTM D 2167, ASTM D 2922, and ASTM D 2937 as applicable. When test reports indicate that backfills have not achieved the degree of compaction specified, scarify and moisten or aerate, or remove and replace soil to depth required; recompact and retest until specified compaction is obtained.
4 The slab-on-grade sub-base shall be a crusher run stone free from soft disintegrated pieces, mud, dirt, or other injurious material. The material shall have no stone greater than 2 inches in any one dimension and with less than 10 percent by weight passing a No.100 sieve.
5 The bottom of exterior footings not on solid rock shall be at least 3' - 6" below finished grade.
6 All soil surrounding and under footings shall be protected from freezing and frost action during the course of construction.
7 Step footings where elevations change at a maximum slope of one vertical on two horizontal and place lower footings first.
8 Foundation walls shall be temporarily braced until the framed floor system at the top of the wall has been poured and the concrete has attained its specified compressive strength unless backfill is placed on both sides simultaneously and to the same level.
9 Keep foundation excavations free of water at all times.
10 Use lean concrete (f'c=1500 psi) or controlled compacted fill for over-excavation of footings.
11 Existing utilities: locate existing underground utilities in areas of excavation work. Provide adequate means of support and protection during earthwork operations.
12 Where footings are in close proximity of sub-surface piping, bottom of footings shall be at least 8" below elevation of piping, unless otherwise shown on the drawings.
13 Filter fabrics/geotextile fabrics: where indicated on the drawings, provide a filtration type geotextile between crushed stone and the surrounding soil. Fabric shall be TenCate Mirafi 140N or Propex Geotex 401.
14 Submittals to the engineer are required for structural fill, and slab sub-base.

Concrete Notes:

1 All concrete work shall conform to all the requirements of ACI 301, "Specifications for Structural Concrete in Buildings" and ACI 318 "Building Code Requirements for Structural Concrete", as specified in the code reference section of these general notes.
2 Concrete shall be the specified weight and develop a minimum strength in 28 days as follows:

Location	Minimum Weight	Strength	Maximum Water/Cementitious Ratio (or slump where indicated)
Footings	Normal	3,000 psi	0.55
Walls and piers:			
Interior	Normal	3,000 psi	0.55
Exterior	Normal	4,000 psi	0.45
Exterior exposed	Normal	5,000 psi	0.40
Slabs-on-grade -interior	Normal	4,000 psi	0.45
Slabs-on-grade -exterior	Normal	5,000 psi	0.40

3 All detailing fabrication, and erection of reinforcing bars, unless otherwise noted, must follow the latest ACI code and the latest ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures".
4 Concrete design mix will be submitted to the engineer for review, together with laboratory reports attesting that the mixes can attain the minimum strength required in accordance with ACI 301 indicated above.
5 Portland cement shall be Type I or Type II and conform to ASTM C 150.
6 Other cementitious material such as flyash or ground granulated blast- furnace slag may be blended with cement for use in the concrete mix. Flyash shall conform to ASTM C 618 and may replace cement if the following ranges for the 2 classes of flyash; Class C, 20 to 35%; Class F, 15 to 25%. Ground granulated blast- furnace slag shall conform to ASTM C 989 and may not exceed 50% of total weight of cementitious materials.
7 For normal weight concrete: coarse aggregate shall be 3/4" and conform to ASTM C 33. Fine aggregate shall be manufactured or natural sand from the same source for the entire project and shall conform to ASTM C 33.
8 No admixtures are permitted without the engineer's written permission other than entrained air. Concrete exposed to the weather, such as that used in foundation walls, shall contain 5% +/- 1 1/2% entrained air. Concrete exposed to the weather and exposed to de-icing compounds shall contain 6% +/- 1 1/2% entrained air. Do not use air entrainment admixture for interior normal weight concrete slabs.
9 Limit water-soluble, chloride-ion content in hardened concrete to 0.30 percent by weight of cement.
10 Reinforcing steel shall conform to ASTM A 615, Grade 60.
11 Welded wire fabric shall conform to ASTM A 1064 with a minimum yield strength of 65 ksi. Lap one mesh size at sides and ends, and wire together.
12 The following concrete cover shall be provided for reinforcement:

Location	Cover (inches)
Concrete cast against and	
Permanently exposed to earth	3
Concrete exposed to earth or weather:	
#6 through #18 bars	2
#5 bar and smaller	1 1/2
Concrete not exposed to weather or in contact with ground:	
Slabs, walls, joists:	
#14 and #18 bars	1 1/2
#11 bar and smaller	3/4
Beams, columns	
Primary reinforcement, ties, stirrups, spirals	1 1/2

13 The conveyance, placement and protection of the concrete shall conform to the requirements of ACI 318, indicated above, and ACI 304R, "Guide for Measuring, Mixing, Transporting and Placing Concrete". Mechanical vibrators are to be used to consolidate the freshly cast concrete around the reinforcing and against form surfaces and to prevent the formation of air or stone pockets, honeycombing, pitting or planes of weakness. However, care must be used to avoid over vibration that can lead to aggregate segregation.
14 No welding of reinforcing will be permitted.
15 All lap splices shall be Class B, in accordance with ACI 318 indicated above.
16 Concrete piers: Place concrete piers and walls together. Set pier reinforcing and set wall reinforcing through pier vertical bars. Provide dowels with standard hook from footing at all piers. Size and quantity of dowels to match vertical pier reinforcing (Class "B" splice).
17 The contractor shall be responsible for limiting pours to minimize shrinkage cracking. In general, walls shall not be poured in continuous lengths exceeding 30 feet without providing construction joints or control joints. The location and configuration of joints exposed to view shall be coordinated with the architect.
18 The installation of slabs shall conform to the requirements of ACI 302.1R, "Guide to Concrete Floor and Slab Construction". Interior finish slab surfaces are to have a steel trowel finish. Surfaces of slabs forming the substrate for mud jobs are to have a clean textured (scratched) surface. Exterior slab surfaces are to have a broom finish unless specified on the architectural drawings.
19 Expansion and isolation-joints:
Filler strips: ASTM D 1751, asphalt-saturated cellulosic fiber or ASTM D 1752, cork or self expanding cork
sealant at top of joint: Sika's Sikaflex 2c SL poly urethane elastomeric sealant. Provide cap to separate sealant from filler.
20 The curing and protection of concrete shall conform to the requirements of ACI 318 and ACI 308R, "Guide to Curing Concrete". Concrete slabs shall be protected from loss of surface moisture for not less than 7 days using a curing compound conforming to ASTM C 309 or constantly wetted burlap. Curing compounds shall be compatible with any intended flooring overlay. Do not install finish flooring until slab has adequately dried per the flooring manufacturer's specifications.
21 Cold weather concrete placement: If cold weather concreting conditions exist as defined by a period of more than three days when the average outdoor temperature, (high + low)/2, is less than 40 deg. F. the procedures outlined in ACI 306.1, "Standard Specification for Cold Weather Concreting" and ACI 306R, "Guide to Cold Weather Concreting" shall be utilized.
22 Hot weather concrete placement: Maintain concrete temperature below 90 deg. F. at time of placement and comply with ACI 301 and ACI 305R, "Guide to Hot Weather Concreting".
23 Accurately position, support, and secure reinforcement against displacement. Locate and support reinforcement with bar supports to maintain minimum concrete cover. Do not tack weld crossing reinforcing bars. Provide bar supports as follows:
A. Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice," of greater compressive strength than concrete.
24 Sizes and locations of all required embedded items, such as anchor bolts, piping sleeves, etc., for all trades shall be coordinated by the general contractor with other trades.
25 Submittals to the engineer are required for concrete mix designs, cement, reinforcing bars, admixtures, and aggregates.

Connections to Existing Masonry or Hardened Concrete:

1 All proprietary anchoring systems (expansion, adhesive anchoring systems, etc.) to be installed into hardened concrete and masonry elements are to be installed in strict accordance with the manufacturer's instructions for drilling and preparation of holes, for spacing and edge distance requirements, and for the utilization of supplemental components for the anchoring systems such as screen tubes, doweling adhesives, etc.

2 For connections to hardened concrete and masonry, contractor must locate the position of existing reinforcing bars with an R-meter or pilot holes prior to installation of anchors. Notify engineer of field conflicts prior to installation.
3 Connections to hardened concrete shall be made with anchors conforming to ACI 318, as specified in the code reference section of these general notes, for cracked concrete, and Chapter 19 of the state building code indicated at the beginning of these general notes.
A. Mechanical anchors shall be either
i. Hilti "Kwik Bolt TZ" expansion anchor.
ii. Hilti "Kwik HUS-EZ" screw anchor (use only in permanently dry, interior non-corrosive environments)
iii. Dewalt "Power-Stud+SD2" expansion anchor.
B. Adhesive anchor rods or reinforcing bars shall be installed in rotary hammered drilled holes with carbide drill bits using one of the following adhesive anchoring systems:
i. Hilti "HIT-HY 200 safe set system" with hollow drill bit or Hilti "HIT-RE-500 V3" adhesive anchoring system with ISO 898 Class 5.8 anchors rods (minimum yield strength = 58 ksi and minimum ultimate strength = 72.5 ksi) or ASTM A 193 Grade B7 high strength anchor rods.
ii. Simpson "AT-XP" adhesive anchoring system for base material temperatures between 14 degrees and 80 degrees or Simpson "Set-3G" adhesive anchoring system for temperatures above 40 degrees, with Simpson "RFB" ASTM F 1554 Grade 36 anchor rods.
iii. Dewalt DUST X+ system with "Pure110+" epoxy adhesive, standard cure or Dewalt "AC200+" two part adhesive, cold temperature cure with ASTM A 193 B7 high strength anchor rods.
iv. Reinforcing bars shall conform to the requirements of the Concrete General Notes.

Adhesive for reinforcing bars and anchors shall have been tested in accordance with ACI 355.4 "Qualification of Post-Installed Adhesive Anchors in Concrete" and ICC-ES (ICC Evaluation Service) "Acceptance Criteria for Post-Installed Adhesive Anchors in Concrete Elements" (AC308) for cracked concrete and seismic applications.

Adhesive bond design strength is based upon concrete that has cured at least 21 days with a minimum compressive strength of 2,500 psi and an in-service temperature in accordance with ACI 355.4 Temperature Category B.

Installation method shall be in accordance with the Manufacturer's Printed Installation Instructions (MPII
Installation of adhesive anchors horizontally or upwardly inclined to support sustained tension loads shall be performed by personnel certified by the ACI/CRSI Adhesive Anchor Installer Certification program or equal.

Unless otherwise noted on the drawings, embed anchor rods and reinforcing bars into drilled holes a minimum of 9 anchor diameters, with a minimum edge distance of 4 inches, measured from the edge of the concrete to the centerline of the anchor/reinforcing bar. Increased embedment depths or edge distances may be required at certain locations, see plans and details.
4 Connections to grout filled concrete masonry shall be made with Hilti standard "HAS-E" ASTM F1554 grade 36 anchor rods using Hilti "HIT HY270" masonry adhesive anchoring systems or with Simpson "RFB" ASTM F 1554 Grade 36 anchor rods using Simpson "Set-XP" masonry adhesive anchoring system.
A. Unless otherwise noted on the drawings, embed anchor rods into drilled holes a minimum of 9 anchor diameters, with a minimum edge distance of 4 measured from the edge of the masonry to the centerline of the anchor. Increased embedment depths or edge distances may be required at certain locations, see plans and details.
5 Connections to hollow concrete or clay brick masonry shall be made with Hilti standard "HAS-E" ASTM F1554 grade 36 anchor rods using Hilti "HIT HY270" masonry adhesive anchoring system with "HIT-SC" composite screen tubes or with Simpson "RFB" ASTM F 1554 Grade 36 anchor rods using Simpson "SET-XP" masonry adhesive anchoring system with Simpson "Opti-mesh" plastic screen tubes.
A. For anchors in hollow concrete masonry, embed anchor rods into drilled holes a minimum of 2 inches, with a minimum edge distance of 4 inches, unless otherwise noted, measured from the edge of the masonry to the centerline of the anchor. Increased embedment depths or edge distances may be required at certain locations, see plans and details.
B. For anchors in hollow clay brick masonry, embed anchor rods into drilled holes a minimum of 3 1/2 inches, with a minimum edge distance of 4 inches, unless otherwise noted, measured from the edge of the masonry to the centerline of the anchor. Increased embedment depths or edge distances may be required at certain locations, see plans and details.

Structural Steel Notes:

1 Design fabrication and erection of structural steel shall conform to the American Institute of Steel Construction's "Specification for Structural Steel for Buildings", as specified in the code reference section of these general notes.
2 Materials:

Wide flange shapes:	ASTM A 992 Grade 50
American standard shapes, angles,	
Plates and bars:	ASTM A 36
Structural steel tubing,	
Rectangular and square	ASTM A 500, Grade C (Fy=50 ksi)
Bolts	ASTM F3125, Grade A 325
Anchor rods	ASTM F 1554, Grade 36
Welding electrode	ASTM E 70xx, low hydrogen
Shear connectors	3/4" diam. ASTM A 108

3 All welding shall conform to American Welding Society's AWS D1.1 "Structural Welding Code-Steel" code for arc and gas welding and be performed by a certified welder in accordance with A.W.S. standards.
4 High strength bolts: install high-strength bolts according to Research Council on Structural Connections' (RCSC's) "Specification for Structural Joints Using High-Strength Bolts" for type of bolt and type of joint specified.

Joint type: Snug tightened unless otherwise noted.
5 Beam shear reactions are indicated on the plans, refer to the typical beam legend for reaction designations. Beams with reactions not shown, shall be designed for a 12 kip reaction (service loads for allowable stress design).
6 The fabricator is responsible for designing shear connections for the reactions shown on these plans and submitting these design calculations, signed and sealed by a qualified professional engineer registered in the state of jurisdiction who is responsible for their preparation, for review by the structural engineer of record through the architect. The reactions shown are "service" loads for "Allowable Stress Design" (ASD). Connections may be designed for these values using the conventional "Allowable Stress Design" method, as specified in the AISC Steel Construction Manual indicated in the code reference section of these general notes.
7 For moment connections, notch-tough welding electrodes, complying with AWS requirements, shall be used for full penetration welds. Also for full penetration welds, provide welding tabs at beam flange edges to allow welding of full beam width.
8 For moment connections, backing bars and weld tabs for welds need not be removed, unless testing agency requires removal to facilitate testing and inspection or weld tabs interfere with architectural finishes.
9 All moment connections utilizing full or partial penetration groove welds, shall be ultrasonic tested and shall be detailed to allow for such ultrasonic testing.
10 Where slotted hole connections are shown, nuts shall be fastened snug tight, then untightened by one-half turn. Peen threads to prevent further loosening of the nut.
11 All bolted connections that will be exposed to view shall have bolts for the full depth of the connected member, whether required to support the reactions shown or not.
12 Grout shall be nonmetallic, shrinkage-resistant grout conforming to ASTM C 1107, Grade B or C, factory-packaged, nonmettallic aggregate grout, noncorrosive, nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.
13 All steel members and bolting exposed to weather shall be cleaned in accordance with the Steel Structures Painting Council Specification SP 6 for Commercial Blast Cleaned and hot-dipped galvanized in accordance with ASTM A 123 and ASTM A 153. Minimum acceptable zinc coating weight shall be 2 oz./sq. Ft. See architectural specifications for finished paint if required. Clean areas where galvanizing is damaged or missing and repair galvanizing to comply with ASTM A 780.
14 Provide bitumastic protection coating for all structural steel below grade.
15 Continuous members, where indicated on the drawings, shall require either 1) the member to be furnished as one piece, or 2) if individual pieces are to be provided, then they shall be connected by either welding or bolting to develop the full strength of the continuous member.
16 Split cantilevers for steel beams shall be designed for the full moment capacity of the beam unless otherwise noted.
17 Provide 1/4" closure plates with seal weld at ends of all HSS members.
18 Fabricator shall hold a current AISC certification for "Certified Building Fabricator (BU)", (formerly known as "Standard for Steel Building Structures (STD)".)
19 For miscellaneous steel, see architectural drawings.
20 Existing steel surfaces to receive field welds shall be thoroughly cleaned and free from paint, rust, grease, etc.
21 Submittals to the engineer are required for certificates of compliance for structural steel, bolts, nuts, washers, and weld filler material prior to the fabrication of any steel
22 At the completion of fabrication, the fabricator shall submit a certificate of compliance stating that the work was performed in accordance with the approved contract documents, as required by Section 1704.2 of the building code indicated at the beginning of these General Notes.

Steel Deck Notes:

1 Steel deck shall be designed, fabricated, and erected in accordance with the current specification of the Steel Deck Institute.
2 Formed steel roof deck to be 1-1/2" deep, 20 gage (uncoated steel thickness = 0.0358"), galvanized (G90 coating), wide rib, United Steel Deck "B" Deck profile, as manufactured by Canam Steel Deck, Incorporated or an approved equal.
3 The steel deck shall be supplied in minimum lengths as required to provide a "3-span" condition. End closures, roof sumps, closures at penetrations, and all other accessories necessary for a complete installation are required.
4 Formed steel roof deck shall be welded to supporting steel with 5/8" diameter puddle welds at all edge ribs plus a sufficient number of interior ribs to limit the spacing between adjacent points of attachment to 12" on center. (For connection of metal roof deck to cold formed framing, use No. 10 self tapping screws at 12" on center). Intermediate side connections shall be made with No.10 self-tapping screws at mid-span or 3'-0" on center, whichever is smaller. End laps of sheets shall be a minimum of 2" and shall occur over supports.
In lieu of puddle welds, powder actuated fasteners having the same capacity as the specified puddle welds, may be used. Fasteners shall be manufactured by Hilti, Inc. or an approved equal. Shop drawings shall be submitted for approval to the engineer indicating fastener data including size vs. steel substrate material, spacings, capacities, including diaphragm shear capacities, method of installation and program for quality assurance of installation.
5 Steel deck must be protected before and after erection and all debris cleaned from its surface where concrete will be poured or roofing is to be placed.

BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

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NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2020	SED ISSUE

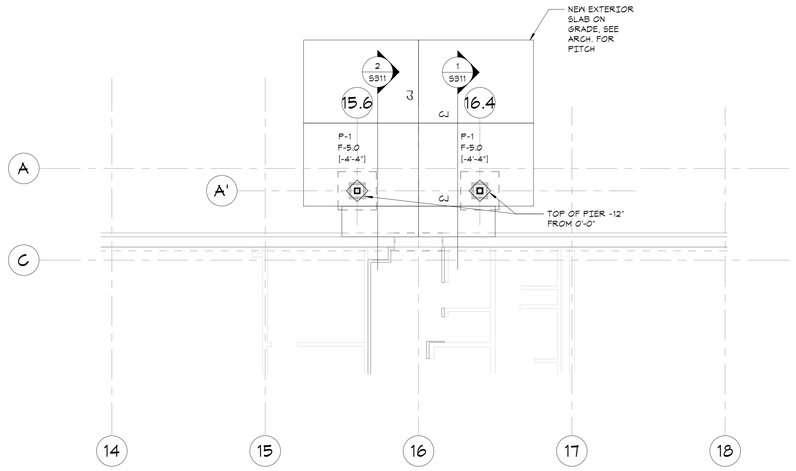
Sheet Title

GENERAL NOTES

Job No. 19282	Date 11-06-2020
Scale AS NOTED	Drawn / Checked JM EM

Sheet Number

S001



FOUNDATION AND LOWER LEVEL SLAB-ON-GRADE PLAN

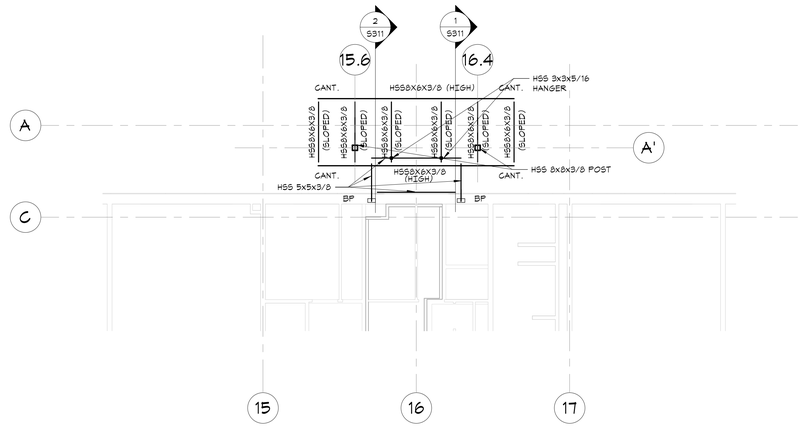
1/8"=1'-0"

NORTH:

- TOP OF LOWER LEVEL CONCRETE SLAB ON GRADE ELEVATION = DATUM ELEVATION 0'-0"
- SLAB ON GRADE CONSTRUCTION: 5" CONCRETE SLAB ON GRADE, REINFORCED WITH 6x6 - W1.4xW1.4 WELDED WIRE FABRIC, UNLESS OTHERWISE NOTED. FOR DETAILS, SEE "TYPICAL SLAB ON GRADE DETAILS".
- CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS BEFORE PROCEEDING WITH ANY WORK.
- SEE GENERAL NOTES, FOR ADDITIONAL INFORMATION.

LEGEND:

- [+/- ...] INDICATES BOTTOM OF FOOTING ELEVATION FROM TOP OF LOWER LEVEL CONCRETE SLAB DATUM ELEVATION.
- "CJ" INDICATES APPROXIMATE LOCATION OF CONTROL/CONSTRUCTION JOINTS IN SLABS ON GRADE. FOR DETAILS, SEE "TYPICAL SLAB ON GRADE DETAILS".
- F-## INDICATES FOOTING TYPE. SEE "FOOTING SCHEDULE AND FOOTING DETAIL".
- P-# INDICATES PIER TYPE. SEE "PIER SCHEDULE AND PIER DETAILS".

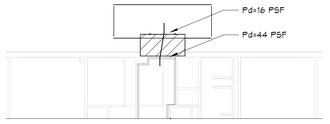


CANOPY FRAMING PLAN

1/8"=1'-0"

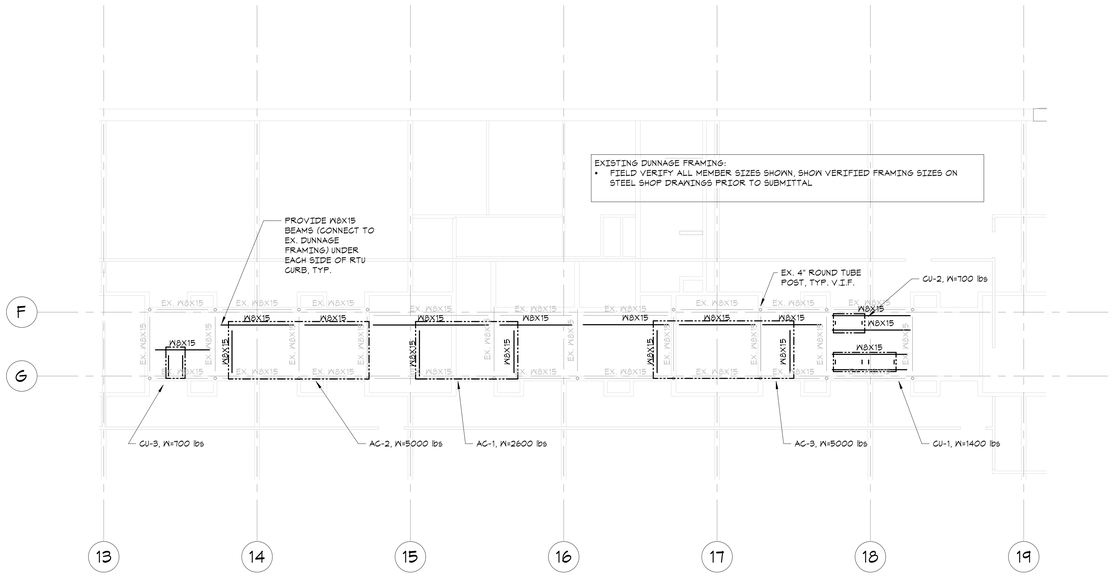
NORTH:

- TOP OF STEEL ELEVATION: 8'-0" UNLESS OTHERWISE NOTED THUS [+/-X'-XX"] FROM ELEVATION 8'-0".
- CANOPY FRAMING: ALTERNATE #3.
- CANOPY DECK CONSTRUCTION: SEE GENERAL NOTES, DRAWING S001.
- "BP" INDICATES BEARING PLATE, SEE 201 FOR MORE INFO.
- ALL FRAMING SHALL BE EQUALLY SPACED BETWEEN COLUMN LINES, UNLESS OTHERWISE INDICATED.
- SEE ARCH. DWG. FOR STEEL ELEVATIONS AND SLOPE OF CANOPY MEMBERS.
- ALL EXPOSED STEEL FRAMING TO BE ARCHITECTURALLY EXPOSED STRUCTURAL STEEL (AESS2 CATEGORY).
- SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.



SNOW DRIFT PLAN

- Pd INDICATES THE SNOW DRIFT SURCHARGE LOAD, THE TOTAL SNOW LOAD IS THE COMBINATION OF Pf (FLAT ROOF SNOW LOAD)+Pd.



EXISTING DUNNAGE FRAMING PLAN

1/8"=1'-0"

NORTH:

- TOP OF DUNNAGE STEEL ELEVATION: 39'-8" UNLESS OTHERWISE NOTED THUS [+/-X'-XX"] FROM ELEVATION 39'-8".
-
- MAXIMUM WEIGHT OF MECHANICAL UNITS, (INCLUDING WEIGHT OF CURB) USED IN THE DESIGN OF SUPPORTING MEMBERS ARE INDICATED ON THE PLANS. SEE MECHANICAL DRAWINGS FOR LOCATION OF MECHANICAL UNITS.
- COORDINATE LOCATION OF STEEL BEAMS WITH MECHANICAL CONTRACTOR FOR ROOF TOP UNIT SELECTED.
- SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

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Key Plan

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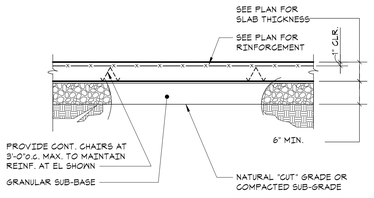
Sheet Title

STRUCTURAL PLANS

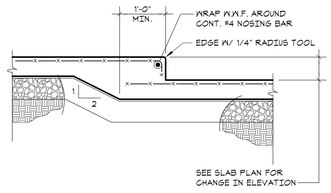
Job No.	Date
19282	11-06-2020
Scale: AS NOTED	Drawn / Checked: JM EM

Sheet Number

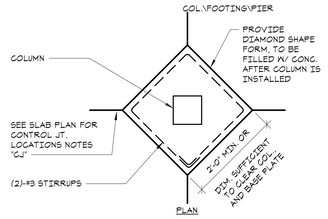
S101



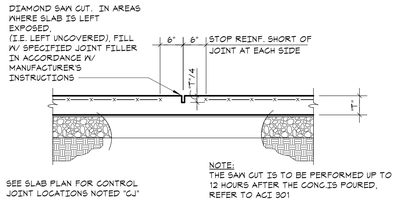
SLAB ON GRADE DETAIL



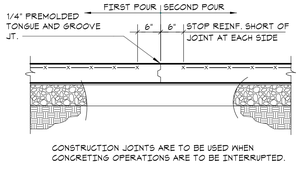
STEPPED SLAB DETAIL



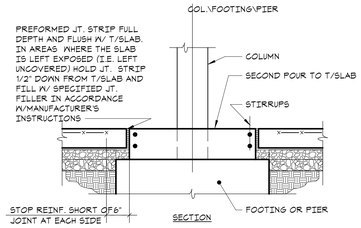
SLAB AT COLUMN DETAIL



CONTROL JOINT DETAIL

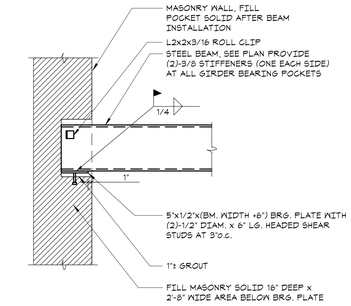


SLAB ON GRADE CONSTRUCTION JOINT DETAIL



SLAB AT COLUMN DETAIL

1 TYPICAL SLAB ON GRADE DETAIL
NO SCALE

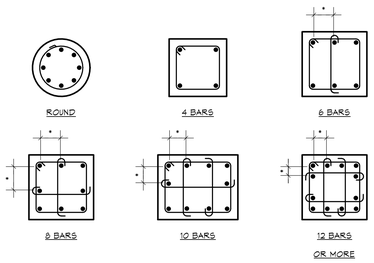


2 TYPICAL BRG. POCKET DETAIL
NO SCALE

PIER SCHEDULE

MARK	TYPE	"X" E-W	"Y" N-S	VERTICAL REINF.	REMARK
P-1	A	24	2'-0	(8)-#6	

3 TYPICAL PIER SCHEDULE AND PIER DETAILS
NO SCALE



TYPICAL TIE ARRANGEMENT
"*" INDICATES WHEN 6" OR LESS OMIT INTERIOR TIE.

MAXIMUM SPACING OF TIES

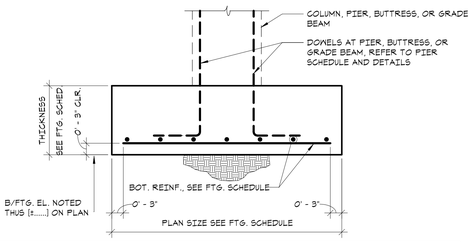
VERTICAL BAR SIZE	SIZE AND SPACING OF TIES		
	#3	#4	#5
#5	10"	-	-
#6	12"	-	-
#7	14"	-	-
#8	16"	16"	-
#9	18"	18"	-
#10	18"	20"	-
#11	†	22"	22"
#14	†	24"	27"
#18	†	24"	30"

"*" INDICATES MAX. SPACING NOT TO EXCEED LEAST DIMENSION OF COMPRESSION MEMBER.

†INDICATES #3 TIES NOT PERMITTED.

NOTES:
1. THE VERTICAL BARS SHALL BE SPACED AROUND THE PERIMETER SO AS TO ACHIEVE APPROXIMATELY EQUAL SPACING.
2. SEE ARCHITECTURAL DRAWINGS FOR LOCATION AND EXTENT OF EXTERIOR DOORS.
3. TIES SHALL BE ARRANGED SUCH THAT EVERY CORNER AND ALTERNATE VERTICAL BAR SHALL HAVE LATERAL SUPPORT PROVIDED BY THE CORNER OF A TIE WITH AN INCLUDED ANGLE OF NOT MORE THAN 135 DEGREES AND NO BAR SHALL BE FURTHER THAN 6" CLEAR ON EACH SIDE ALONG THE TIE FROM SUCH A LATERALLY SUPPORTED BAR.
4. TIES SHALL BE LOCATED VERTICALLY NOT MORE THAN ONE-HALF A TIE SPACING ABOVE THE TOP OF FOOTING OR SLAB IN ANY STORY, AND SHALL BE SPACED AS PROVIDED HEREIN TO NOT MORE THAN ONE-HALF A TIE SPACING BELOW THE LOWEST HORIZONTAL REINFORCEMENT IN SLAB OR DROP PANEL ABOVE.
5. WHERE BEAMS OR BRACKETS FRAME FROM FOUR DIRECTIONS INTO A COLUMN, PIER OR BUTRESS, TERMINATION OF TIES NOT MORE THAN 3" BELOW REINFORCEMENT IN SHALLOWEST OF SUCH BEAMS OR BRACKETS SHALL NOT BE PERMITTED.
6. SEE THE GENERAL NOTES ON DRAWING S1 FOR THE MINIMUM CONCRETE COVER REQUIREMENTS FOR REINFORCEMENT.
7. WHERE PIERS ARE ADJACENT TO FOUNDATION WALLS, PIERS ARE TO BE POURED MONOLITHICALLY WITH WALLS, PIER REINFORCING SHALL EXTEND WITHIN 2" OF OPPOSITE FACE WALL.

4 TYPICAL COLUMN, PIER AND BUTTRESS TIE DETAILS
NO SCALE



FOOTING SCHEDULE
(ALLOWABLE BEARING PRESSURE: 3000 PSF)

MARK	PLAN SIZE		THICKNESS	BOTTOM REINF.		REMARKS
	N-S	E-W		N-S	E-W	
F-5.0	5'-0"	5'-0"	1'-4"	(6)-#5	(6)-#5	

NOTES:
1. REFER TO FOOTING DETAILS AND FOUNDATION NOTES IN USING THIS SCHEDULE.

5 3000 PSF FOOTING SCHEDULE AND DETAIL
NO SCALE

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Alterations

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CONSTRUCTION DOCUMENTS

Key Plan

Professional Seal

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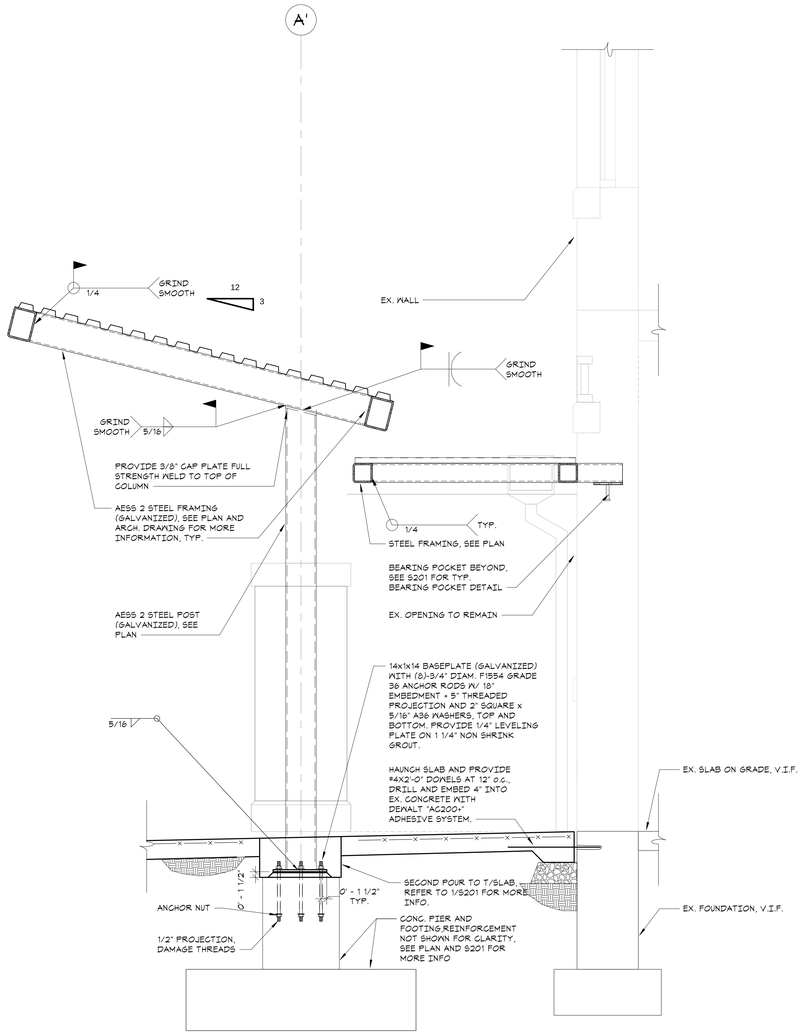
FOUNDATION SCHEDULES AND TYPICAL DETAILS

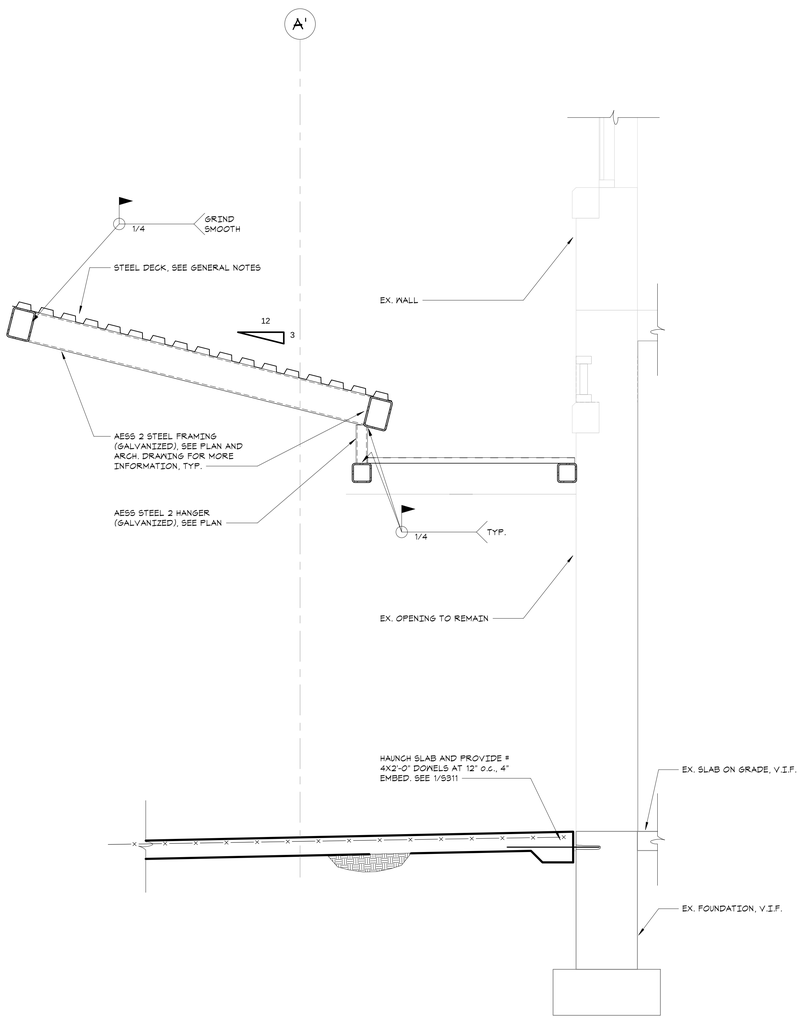
Job No.	Date
19282	11-06-2020
Scale	Drawn / Checked
AS NOTED	JM EM

Sheet Number

S201



1 SECTION
3/4" = 1'-0"



2 SECTION
3/4" = 1'-0"

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1	01/17/2020	SED ISSUE

Sheet Title

STEEL SECTIONS

Job No.	Date
19282	11-06-2020
Scale: AS NOTED	Drawn / Checked: JM EM

Sheet Number

S311

SHEET IDENTIFICATION LEGEND

A101

DISCIPLINE DESIGNATOR
SHEET TYPE DESIGNATOR
SEQUENCE NUMBER

DISCIPLINE DESIGNATORS	
G	GENERAL
CC	CODE COMPLIANCE
PH	PHASING
HM	HAZARDOUS MATERIAL ABATEMENT
C	CIVIL
L	LANDSCAPE
S	STRUCTURAL
A	ARCHITECTURAL
F	FIRE PROTECTION
P	PLUMBING
M	MECHANICAL
E	ELECTRICAL

SHEET TYPE DESIGNATOR	
G	GENERAL
1	DEMOLITION
2	PLANS
3	EXTERIOR ELEVATIONS & BUILDING SECTIONS
4	PARTIAL PLANS & INTERIOR ELEVATIONS
5	FINISHES
6	REFLECTED CEILING PLANS
7	VERTICAL CIRCULATION
8	WALL SECTIONS & ENLARGED DETAILS
9	TYPICAL DETAILS

SYMBOLS LEGEND

ROOM NAME
101
150 SF
ROOM TAG (NAME, NUMBER, & AREA)

WALL TYPE & FIRE RATING TAG

1A — WINDOW TYPE TAG

101 — DOOR DESIGNATION TAG

C J — CONTROL JOINT

0 — COLUMN LINE

EXTERIOR ELEVATION

1 / A101 — INTERIOR ELEVATION

SIM / 0 / A101 — WALL OR BUILDING SECTION

DENOTES EXISTING AREA OF THE BUILDING TO REMAIN (NO MAJOR GENERAL CONSTRUCTION)

DENOTES EXISTING WALL TO REMAIN

DENOTES EXISTING ELEMENT TO BE DEMOLISHED

DENOTES 1hr OR NON-RATED WALL

DENOTES 2hr RATED WALL

DENOTES HOLLOW METAL FRAME w/ SIDELITE OR TRANSOM

DENOTES EXISTING DOOR TO REMAIN (UNO)

DENOTES EXISTING DOOR AND/OR FRAME TO BE DEMOLISHED. SEE DOOR SCHEDULE

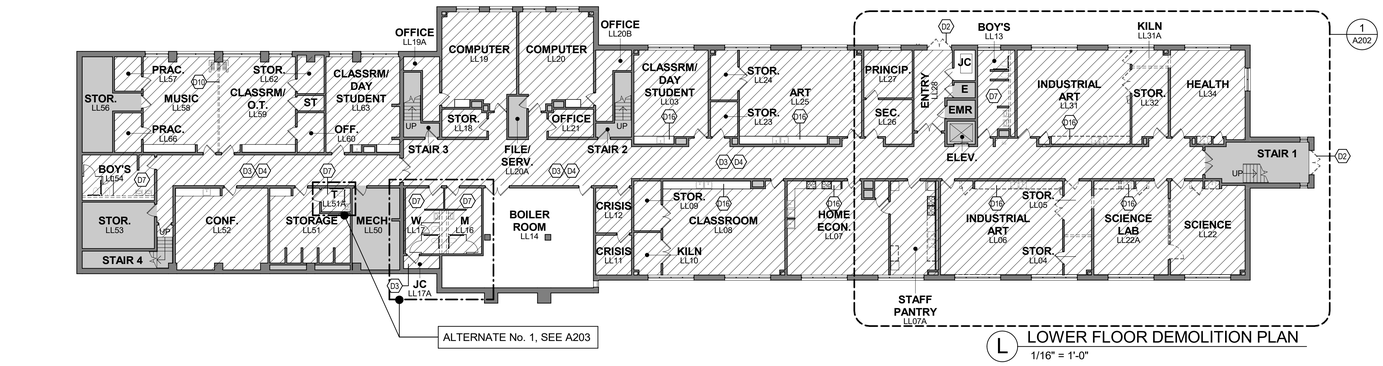
101 — DENOTES NEW DOOR AND/OR FRAME. SEE DOOR SCHEDULE

MATERIAL LEGEND

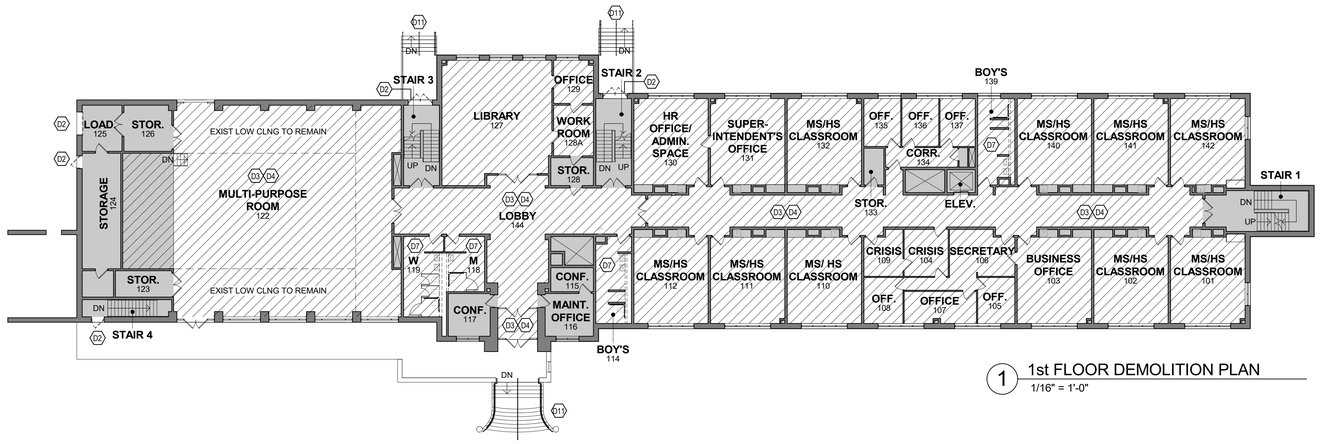
- CONCRETE MASONRY UNIT WALL
- CONCRETE MASONRY UNIT WALL
- GWB WALL
- MASONRY VENEER
- GWB - "TYPE X" UNO (SEE SPECS)
- WOOD BLOCKING (PRESSURE TREATED ALL AREAS EXPOSED TO WEATHER OR MOISTURE)
- SEALANT w/ BACKER ROD
- RIGID INSULATION
- BATT INSULATION
- POROUS FILL
- SUITABLE COMPACTED BACKFILL (SEE SPEC)
- UNDISTURBED SOIL
- CAST-IN-PLACE CONCRETE OR CAST STONE
- GLASS SURFACE

ABBREVIATIONS

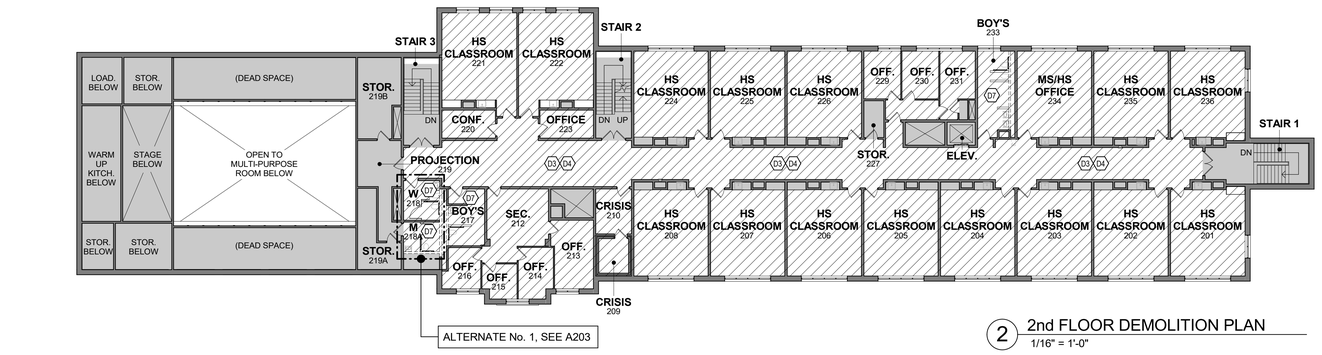
AFF	ABOVE FINISH FLOOR
ACT	ACOUSTIC CEILING TILE
ADMIN	ADMINISTRATION
ALUM	ALUMINUM
APPROX	APPROXIMATE
BTW	BETWEEN
BLKG	BLOCKING
BO	BOTTOM OF
BLDG	BUILDING
BL	BUILDING LINE
CAB	CABINET
CB	CEMENT BOARD
CJ	CONTROL JOINT
CLG / CLNG	CEILING
C.L.	CENTER LINE
CL	CLOSET
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONST	CONSTRUCTION
CONT	CONTINUOUS
CORR	CORRIDOR
CPT	CARPET
CT	CERAMIC TILE
DA	DEVICE ARRANGEMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
EE	EACH END
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC / ELECTRICAL
ELEV	ELEVATOR
EPO	EPOXY
EQ	EQUAL
EX / EXIST	EXISTING
EXT	EXTERIOR
FIN	FINISH / FINISHED
FA	FIRE ALARM
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FACTORY FINISH
FR	FIRE RATED
FIX	FIXTURE
FL / FLR	FLOOR
FT	FOOT / FEET
FNDN	FOUNDATION
GA	GAUGE
GALV	GALVANIZED
GL	GLASS
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
H / HT	HEIGHT AFF
HDWR	HARDWARE
HDWD	HARDWOOD
HVAC	HEATING, VENTILATING, AIR CONDITIONING
HR	HOUR
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HW	HOT WATER
IN	INCH / INCHES
INFO	INFORMATION
INSUL	INSULATION
JAN / JC	JANITOR'S CLOSET
JT	JOINT
LAM	LAMINATED
LGSF	LIGHT GUAGE STEEL FRAMING
LTG	LIGHTING
MAINT	MAINTAIN / MAINTENANCE
MAX	MAXIMUM
MFG	MANUFACTURER
MO	MASONRY OPENING
MATL	MATERIAL
MECH	MECHANICAL
MTL	METAL
MIN	MINIMUM
MISC	MISCELLANEOUS
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NO	NUMBER
OC	ON CENTER
OFF	OFFICE
OH	OVERHEAD
OPP	OPPOSITE
OTS	OPEN TO STRUCTURE
OD	OUTSIDE DIAMETER
P / PTD	PAINTED
PT	PORCELAIN TILE
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLMG	PLUMBING
PLYWD	PLYWOOD
QT	QUARRY TILE
QTY	QUANTITY
R	RADIUS
RCP	REFLECTED CEILING PLAN
REINF	REINFORCED
REQ'D	REQUIRED
RB	RUBBER BASE
REV	REVISED / REVISION
RFI	REQUEST FOR INFORMATION
RO	ROUGH OPENING
RT	RUBBER TREAD / TILE
RW	RESCUE WINDOW
SCHED	SCHEDULE/SCHEDULED
SIM	SIMILAR
SL	SLATE
SPEC	SPECIFICATION
SQFT	SQUARE FOOT
SS	SAND, STAIN & SEAL
ST / STORE	STORAGE
ST STL	STAINLESS STEEL
STL	STEEL
STR / STRUCT	STRUCTURAL / STRUCTURE
TB	TACKBOARD
TBD	TO BE DETERMINED
THK	THICK
TO	TOP OF
TOS	TOP OF STEEL
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
UTIL	UTILITY
VCT	VINYL COMPOSITE TILE
VERT	VERTICAL
VEST	VESTIBULE
VET	VINYL ENHANCED TILE
VIF	VERIFY IN FIELD
VT	VINYL TILE
WB	WHITEBOARD
WC	WATER CLOSET
W/	WITH
W/O	WITHOUT
WOM	WALK OFF MAT
WD	WOOD
WD BLKG	WOOD BLOCKING
WR	WARDROBE
YD	YARD DRAIN
ZCC	ZINC COATED COPPER



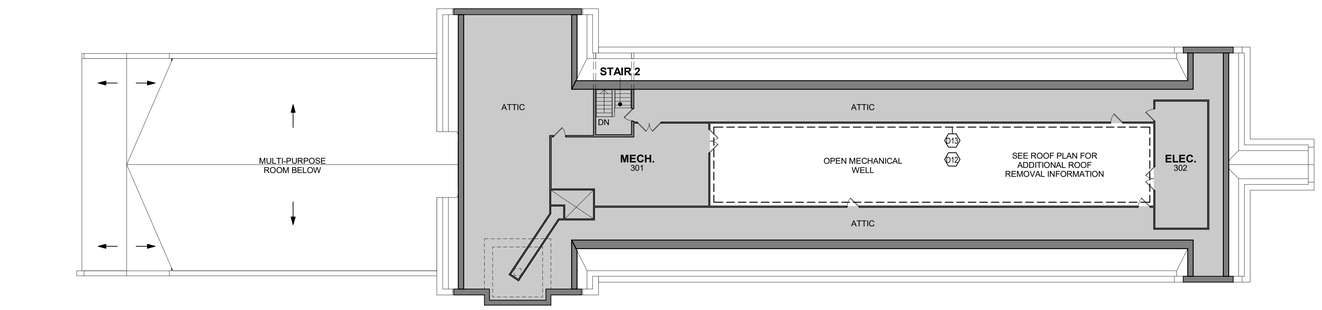
L LOWER FLOOR DEMOLITION PLAN
1/16" = 1'-0"



1 1st FLOOR DEMOLITION PLAN
1/16" = 1'-0"



2 2nd FLOOR DEMOLITION PLAN
1/16" = 1'-0"



3 ATTIC DEMOLITION PLAN
1/16" = 1'-0"

DEMOLITION GENERAL NOTES

1. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES TO PERFORM ALL OPERATIONS REQUIRED FOR COMPLETE DEMOLITION AND RELATED WORK AS DESCRIBED AND SPECIFIED HEREIN, AND AS MAY BE REASONABLY IMPLIED AS NECESSARY TO COMPLETE THE WORK IN ALL RESPECTS.

2. WORK SHALL CONFORM TO THE LATEST EDITION OF ALL APPLICABLE REFERENCE SPECIFICATIONS AND TO GOVERNING BUILDING CODES AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.

3. CONTRACTORS SHALL TAKE ALL PRECAUTIONS TO MAINTAIN SAFE EGRESS THROUGH THE AREAS INVOLVED. ALL SAFETY RELATED WORK SHALL BE COMPLETED BEFORE DEMOLITION OPERATIONS COMMENCE.

4. REMOVALS AS DESCRIBED HEREIN SHALL BE ACCOMPLISHED WITHOUT STORING ON THE FLOOR EXCESSIVE QUANTITIES OF ANY MATERIALS, RUBBISH, DIRT, DEBRIS, OR WASTE OF ANY SORT RESULTING FROM THE REMOVAL OPERATIONS.

5. CONTRACTOR SHALL REVIEW WITH ARCHITECT, ANY AND ALL ITEMS OF DEMOLITION NOT IMPLIED OR SPECIFIED ON DRAWINGS OR SPECIFICATIONS AND TO INCLUDE SUCH COSTS IN BID UNLESS OTHERWISE ADVISED.

6. CONTRACTOR SHALL REVIEW WITH ARCHITECT REGARDING ALL ITEMS SCHEDULED FOR RELOCATION. SAID ITEMS TO BE CAREFULLY REMOVED, PROTECTED AND STORED.

7. WHEN DEMOLISHING PORTIONS OF WALLS, CEILINGS, AND/OR ROOFS, CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND SUPPORT LINTELS. REGARDLESS OF WHETHER OPENING SPECIFICALLY CALLS OUT FOR A NEW LINTEL OR NOT, ALL MASONRY OPENINGS THAT CONTRACTOR CREATES SHALL RECEIVE A SUPPORT LINTEL.

8. WHEN DEMOLISHING PORTIONS OF MASONRY WALLS IN AREAS VISIBLE TO THE PUBLIC CONTRACTOR SHALL 'SAW CUT' AND 'TOOTH IN' MASONRY TO MATCH EXISTING AT ANY PATCHING OF MASONRY WALLS & CORNERS.

9. BEFORE CUTTING ANY OPENING/HOLE/TRENCH SPECIFICALLY FOR OTHER TRADE, CONTRACTOR SHALL REVIEW & VERIFY EXACT SIZE & LAYOUT WITH THAT TRADE CONTRACTOR.

10. GENERAL CONTRACTOR SHALL SAW CUT AND REMOVE PARTIAL EXISTING CONCRETE SLAB AS REQUIRED FOR INSTALLATION OF UNDERSLAB PIPING AND/OR CONDUIT BY TRADE CONTRACTORS. FILL SLAB OPENING WITH CONCRETE AS REQUIRED FOR SCHEDULED FLOOR FINISH OR PATCH AND MATCH EXISTING FLOOR FINISH, PER FINISH SCHEDULE. SEE M.E.P. DRAWINGS FOR LOCATIONS OF UNDERSLAB PIPING & CONDUIT TO BE INSTALLED. CONTRACTOR SHALL REVIEW & VERIFY EXACT SIZE & LAYOUT WITH TRADE CONTRACTOR

11. AFTER DEMOLITION, WHETHER SPECIFICALLY CALLED OUT OR NOT, CONTRACTOR SHALL PATCH &/OR REPAIR ALL SCARS TO EXISTING ADJACENT CONSTRUCTION AS REQUIRED TO RESTORE TO PRIOR CONDITION. WHEN FINISH PATCHING, IF SPECIFIC FINISH/MATERIAL IS NOT CALLED OUT, CONTRACTOR SHALL MATCH EXISTING ADJACENT MATERIALS. CONTRACTOR SHALL PATCH, SMOOTH ALL AREAS THAT HAD MATERIALS REMOVED AND ARE REQUIRED TO RECEIVE NEW FINISHES. OWNER HAS RIGHT OF FIRST REFUSAL OF ANY MATERIAL.

12. AT ANY SPACE BEING RENOVATED, CONTRACTOR SHALL REMOVE EXISTING EQUIPMENT, FURNITURE, AND MISCELLANEOUS ITEMS SUCH AS DISPLAY BOARDS, TACK BOARDS, INTERCOMS, SPEAKERS, FIRE EXTINGUISHERS, FLAG POLES, PLAQUES, ETC., AND TURN OVER TO OWNER.

13. PROTECT FINISHES IN ALL AREAS ADJACENT TO CONSTRUCTION. COORDINATE NECESSARY RELOCATION/PROTECTION FOR FURNITURE & FURNISHINGS w/ OWNER DURING CONSTRUCTION. IF DAMAGED THEY SHALL BE REPLACED 'IN KIND'.

14. THIS DRAWING IS SPECIFIC TO ARCHITECTURAL SCOPE. CONTRACTOR IS RESPONSIBLE FOR ALL WORK REQUIRED TO ACCESS & RESTORE ALL MATERIALS, SYSTEMS, AND FINISHES (EXISTING & NEW) DISRUPTED WHILE PERFORMING ARCHITECTURAL, M.E.P., STRUCTURAL, & SITE SCOPE. COORDINATE WITH ALL DOCUMENTS AND TRADES.

15. COORDINATE ALL DEMOLITION w/ M.E.P. REMOVALS PRIOR TO DEMOLITION. CONTRACTOR SHALL REMOVE, TERMINATE OR DISCONNECT AS REQUIRED ALL M.E.P. SYSTEMS & ACCESSORIES AFFECTED AS PART OF THE WORK. M.E.P. SYSTEMS IN WALLS THAT ARE TO BE DEMOLISHED ARE TO BE REMOVED AND/OR RELOCATED AS REQUIRED. ALL TERMINATIONS TO BE CONCEALED. NOTE: ALL WIRING, DEVICES & M.E.P. SYSTEMS NOT BEING REMOVED AS PART OF THE WORK, WHICH RUN THROUGH THE WORK AREA, SHALL BE TESTED, LABELED & PROTECTED FROM DISTURBANCE SO THEY REMAIN OPERATIONAL THROUGHOUT THE PROJECT.

16. ALL ABANDONED EQUIPMENT MUST BE REMOVED UNLESS NOTED OTHERWISE.

17. CONTRACTOR SHALL VERIFY IN FIELD EXISTING STRUCTURE AND RELATED DIMENSIONS SHOWN WITHIN THESE DOCUMENTS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT.

DEMOLITION KEYNOTES

D2	REMOVE EXISTING DOOR, FRAME & HARDWARE COMPLETE.
D3	REMOVE EXISTING FINISH FLOORING & BASE. SCRAPE AND CLEAN SLAB TO REMOVE GLUE, RESIDUES AND ALL OTHER MATERIAL THAT WOULD IMPAIR INSTALLATION OF SCHEDULED FINISH FLOOR. ANY DAMAGE TO ADJACENT FINISHES SHALL BE REPAIRED/PATCHED.
D4	REMOVE EXISTING CEILINGS, LIGHTING & OTHER CEILING MOUNTED ELEMENTS U.N.O.. SEE M.E.P. DRAWINGS FOR ADDITIONAL REQUIREMENTS. TURN OVER ALL EXISTING AV EQUIPMENT (I.E. PROJECTORS & SCREENS) TO OWNER. PROTECT FLOOR DURING CEILING REMOVALS IN AREAS WITH EXISTING FLOORING TO REMAIN.
D7	TOILET ROOMS - REMOVE EXISTING FLOOR, WALL AND CEILING FINISHES INCLUDING LIGHTING & OTHER CEILING/WALL MOUNTED ELEMENTS UNO. REMOVE EXISTING PLUMBING CHASE WALL. PREPARE SURFACES TO RECEIVE FINISHES AS SCHEDULED. REMOVE EXISTING PLUMBING FIXTURES INCLUDING CORRIDOR DRINKING FOUNTAINS, TOILET PARTITIONS AND ACCESSORIES COMPLETE. PARTIAL HEIGHT CMU PARTITIONS TO REMAIN
D10	REMOVE EXISTING OPERABLE PARTITION COMPLETE.
D11	REMOVE EXISTING STAIR RAILINGS COMPLETE.
D12	REMOVE EXISTING GRAVEL SURFACING, BUILT-UP FLAT ROOF MEMBRANE & INSULATION. EXISTING ROOF DECK TO REMAIN. REPLACE DETERIORATED PORTIONS. SEE ROOF PLAN FOR MORE DETAILED ROOF AREAS BEING REPLACED. SEE MEP DWGS FOR ROOF TOP EQUIPMENT REMOVALS.
D13	REMOVE PERIMETER FLASHING, INSULATION, & BOTTOM OF METAL PANELS AT WALL BASE TO EXTENT SHOWN IN ROOF DETAILS. REMOVE & SALVAGE EXISTING PERIMETER ROOF COPING ABOVE. SEE ROOF DETAILS FOR MORE DETAILED INFORMATION.
D16	REMOVE GYP BD AT SOFFIT (ABOVE) TO EXTENT NECESSARY FOR MC TO PERFORM MECH WORK WITHIN SOFFIT. GC TO RELOCATE METAL FRAMING TO ACCOMMODATE SCHEDULED MECH EQUIPMENT. SEE MECH DWGS, COORD WITH MC. REMOVE & REPLACE PORTION OF EXIST ACT CEILINGS TO ACCOMMODATE NEW GYP SOFFITS, SEE RCP.

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CONSTRUCTION DOCUMENTS

DEMOLITION NOTES

1 — DENOTES AREA OF NO MAJOR ARCHITECTURAL WORK. SPECIFIC WORK MAY BE SHOWN ELSEWHERE INCLUDING WORK THAT MAY REQUIRE ACCESS, PATCHING & RESTORATION, REFER TO STRUCTURAL & M.E.P. DWGS.

2 — DENOTES EXISTING CONSTRUCTION TO BE DEMOLISHED (U.N.O.).
- MOST EXISTING INTERIOR WALLS ARE OF MASONRY CONSTRUCTION

3 — DENOTES EXISTING WALL TO REMAIN

4 PRIOR TO ANY DEMOLITION CONTRACTORS ARE REQUIRED TO BE FAMILIAR WITH EXISTING CONDITIONS. SHORING MAY BE NEEDED INCLUDING INSTALLATION OF LINTELS PRIOR TO THE REMOVAL OF ANY BUILDING ELEMENT.

5 COORDINATE ALL DEMOLITION & PHASING w/ M.E.P. REMOVALS. NOTE: ALL WIRING, DEVICES & M.E.P. SYSTEMS NOT BEING REMOVED AS PART OF THE WORK, WHICH RUN THROUGH THE WORK AREA, SHALL BE TESTED, LABELED & PROTECTED FROM DISTURBANCE SO THEY REMAIN OPERATIONAL THROUGHOUT THE PROJECT. NOTE: ALL MECHANICAL WORK ABOVE CEILINGS & SOFFITS SHALL BE COMPLETED PRIOR TO FINISH FLOOR INSTALLATION.

Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2020	SED ISSUE

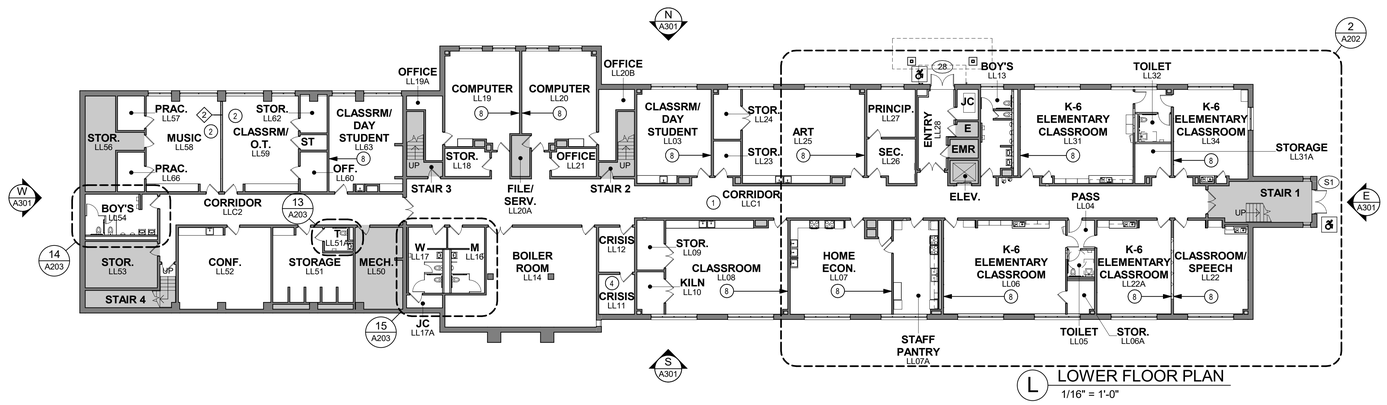
Sheet Title

DEMOLITION PLANS

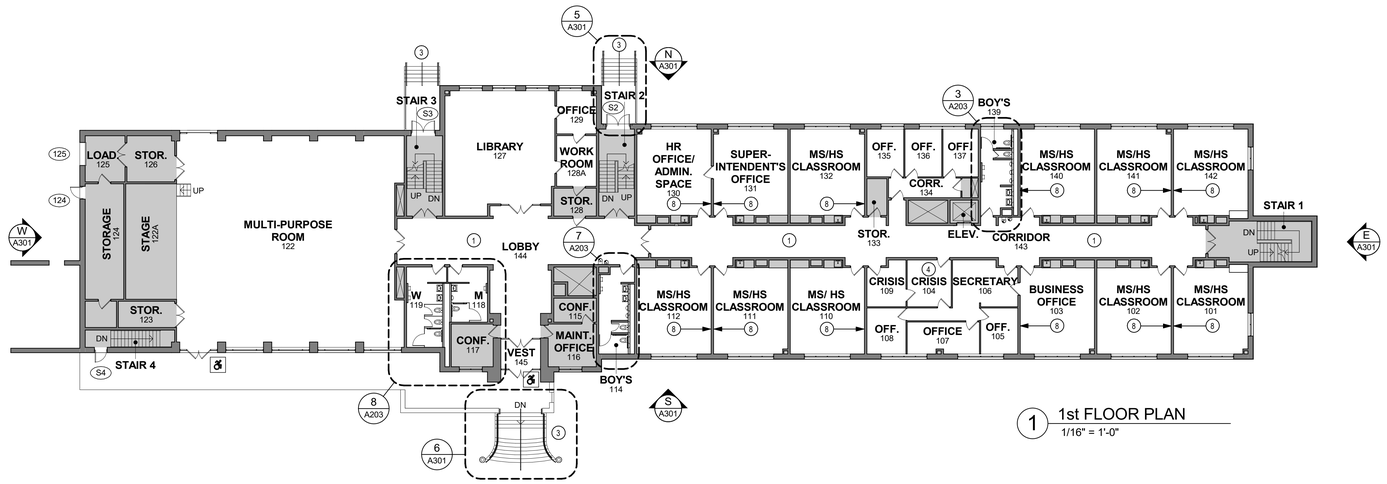
Job No.	Date
2019-1029	01/17/2020
Scale: AS NOTED	Drawn / Checked: -

Sheet Number

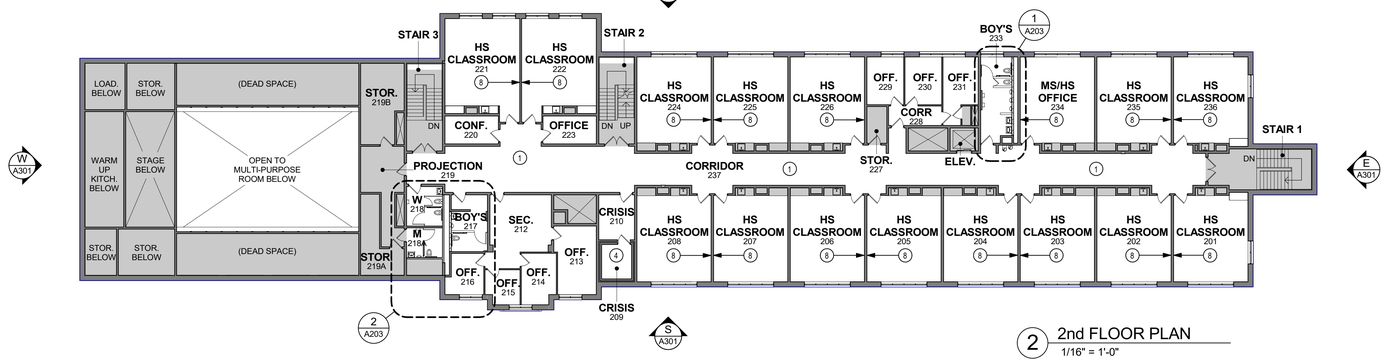
A101



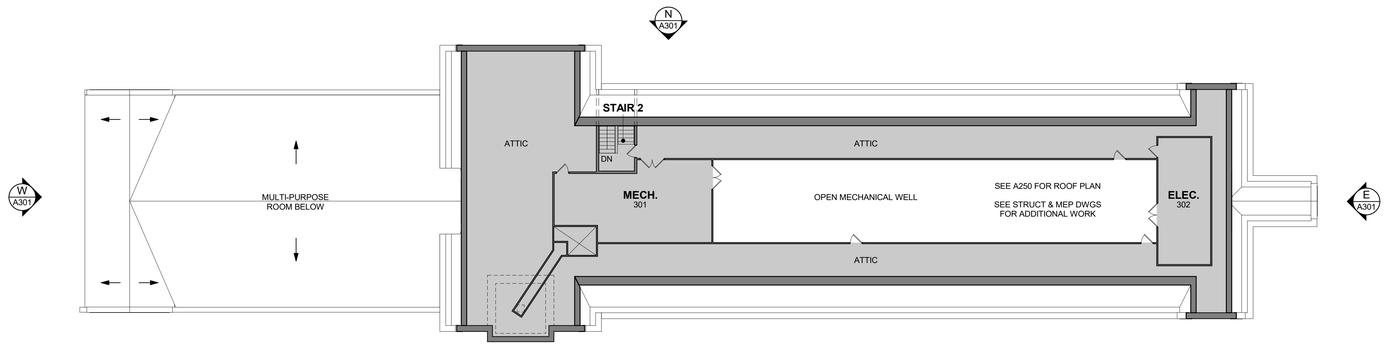
L LOWER FLOOR PLAN
1/16" = 1'-0"



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



2 2nd FLOOR PLAN
1/16" = 1'-0"



3 ATTIC PLAN
1/16" = 1'-0"

KEYNOTES

1. PROVIDE FINISH FLOORING & WALL BASE AS SCHEDULED. SEE FLOOR FINISH PLANS & FINISH SCHEDULE. SALVAGE & REINSTALL EXISTING INTERIOR DOOR SADDLES & TRANSITION STRIPS AS NEEDED.
2. REWORK EXISTING CEILING GRID SYSTEM & PROVIDE ADDITIONAL CEILING TILES AS REQUIRED TO EXTEND EXISTING CEILING TO SCHEDULED WALL. PROVIDE WALL BASE PER SPEC.
3. PROVIDE REPLACEMENT GUARDRAIL/HANDRAIL ASSEMBLY TO MATCH EXISTING CONFIGURATION. USE EXISTING POST LOCATIONS. REPAIR CRACKS & PROVIDE TOPCOAT AT EXISTING CONCRETE STAIRS AND LANDINGS, INCLUDES ALL VERTICAL & HORIZONTAL CONCRETE SURFACES. EXAMINE HORIZONTAL SURFACES FOR EVIDENCE OF PUDDLING AND CORRECT SLOPE TO PROPERLY SHED WATER.
4. REPLACE PADDED FLOOR FINISH. PROVIDE FLOOR TRANSITION STRIP.
8. PROVIDE CMU BLOCK FILLER AT (1) TEACHING WALL. PAINT ACCENT COLOR.

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GREENBURGH ELEVEN UFSD

1 Echo Hill Drive - Building #36
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NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

GENERAL NOTES

1. DENOTES AREA OF NO MAJOR ARCHITECTURAL RENOVATION WORK, SPECIFIC WORK MAY BE SHOWN ELSEWHERE, REFER TO M.E.P. DWGS.
2. (101) DENOTES DOOR NUMBER. SEE A901 FOR DOOR SCHEDULE. SEE SPECS FOR HARDWARE SETS & INFO
3. RW DENOTES EXISTING RESCUE WINDOW
4. DENOTES EXISTING WALL TO REMAIN (MOST EXISTING WALLS ARE MASONRY V.I.F.)
5. DENOTES 2hr RATED WALL
6. DENOTES WALL TYPE & FIRE RATING, WHERE SHOWN (SEE A901)
7. DENOTES HOLLOW METAL FRAME w/ SIDELITE OR TRANSOM (NOT USED)
8. FINISH SCHEDULE & ABBREVIATION LIST (SEE A501)
9. ALL CORRIDOR WALLS & OPENINGS SHALL OBSTRUCT THE PASSAGE OF SMOKE & FUMES.
10. DIMENSIONS SHOWN FOR INTERIOR WALLS ARE: 'FACE OF STRUCTURE' OR 'FACE OF CMU'
11. FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME IS 4" (TYP) U.N.O. (SEE A & B ON A901)
12. MB8, TB4 - DENOTES MARKERBOARD OR TACKBOARD OF SPECIFIED LENGTH (FT)
13. SB - DENOTES "SMART BOARD" FURNISHED BY OWNER, INSTALLED BY G.C.
14. DENOTES EXISTING DOOR TO REMAIN (U.N.O.)
    (101) DENOTES NEW DOOR, FRAME, & HARDWARE, SEE NOTE 2 (ABOVE)
15. FURNITURE SHOWN IS BY OWNER, NIC
16. SEE A601 FOR CEILING LEGEND

Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2020	SED ISSUE

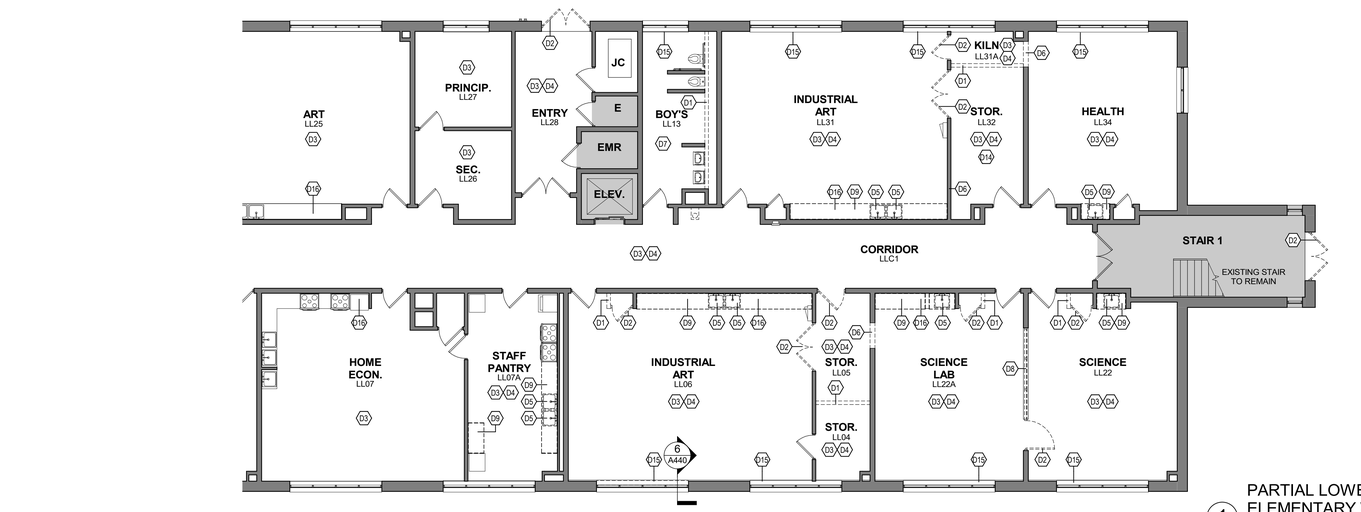
Sheet Title

OVERALL FLOOR PLANS

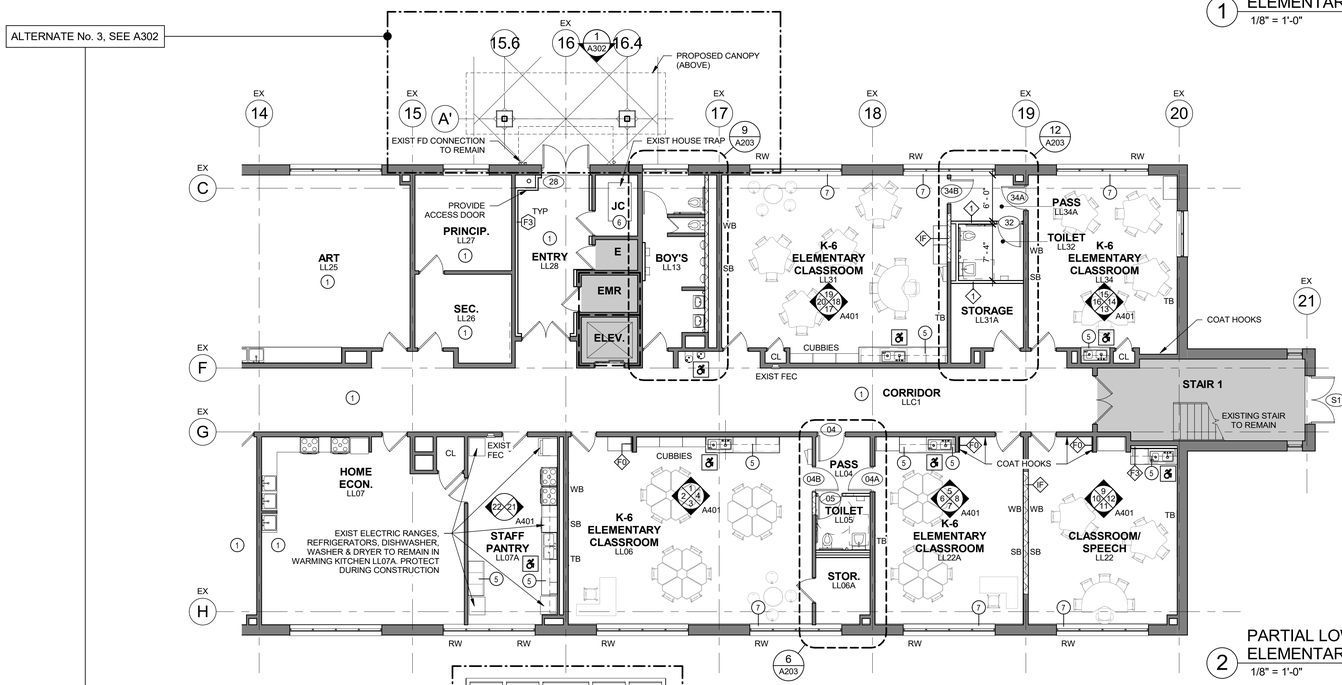
Job No.	Date
2019-1029	01/17/2020
Scale: AS NOTED	Drawn / Checked: -

Sheet Number

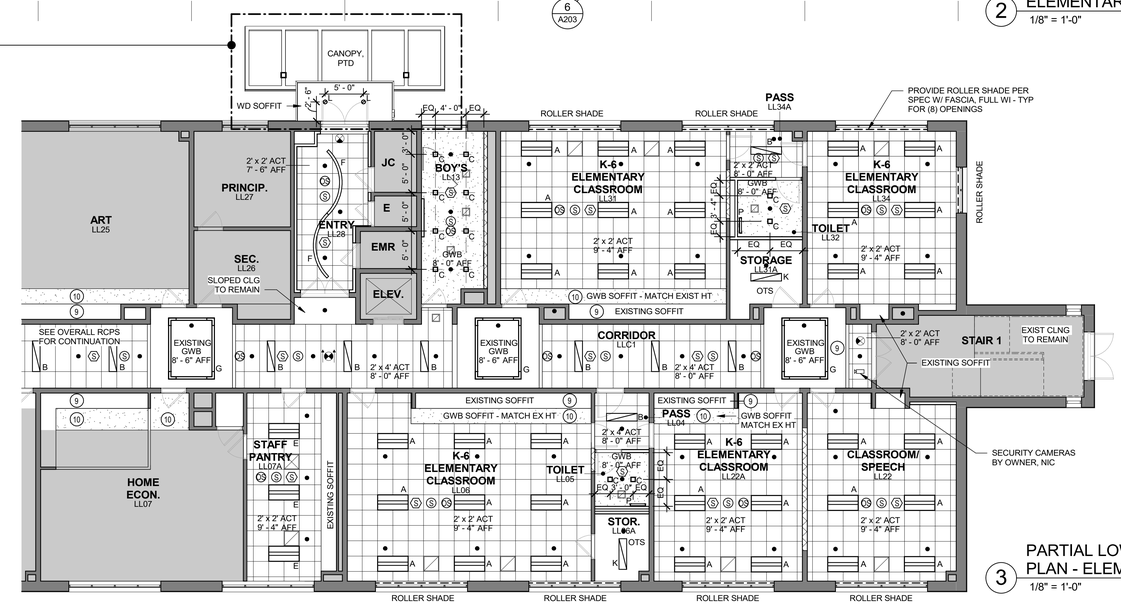
A201



1 PARTIAL LOWER FLOOR DEMOLITION PLAN - ELEMENTARY WING
1/8" = 1'-0"



2 PARTIAL LOWER FLOOR PLAN - ELEMENTARY WING
1/8" = 1'-0"



3 PARTIAL LOWER FLOOR REFLECTED CEILING PLAN - ELEMENTARY WING
1/8" = 1'-0"

DEMOLITION KEYNOTES

- D1 REMOVE EXISTING WALL PARTITION, WALL MOUNTED ELEMENTS & WALL BASE COMPLETE AS SHOWN. PRIOR TO THE REMOVAL OF ANY WALL OR SUPPORTING ELEMENT, THE CONTRACTOR SHALL EXAMINE SURROUNDING CONDITIONS TO CONFIRM ADJACENT CONSTRUCTION & SUPPORT SHALL BE MAINTAINED. COORDINATE PARTIAL WALL REMOVALS WITH NEW WORK. SHORE & SUPPORT AS REQUIRED.
- D2 REMOVE EXISTING DOOR, FRAME & HARDWARE COMPLETE.
- D3 REMOVE EXISTING FINISH FLOORING & BASE. SCRAPE AND CLEAN SLAB TO REMOVE GLUE, RESIDUES AND ALL OTHER MATERIAL THAT WOULD IMPAIR INSTALLATION OF SCHEDULED FINISH FLOOR. ANY DAMAGE TO ADJACENT FINISHES SHALL BE REPAIRED/PATCHED.
- D4 REMOVE EXISTING CEILINGS, LIGHTING & OTHER CEILING MOUNTED ELEMENTS U.N.O.. SEE M.E.P. DRAWINGS FOR ADDITIONAL REQUIREMENTS. TURN OVER ALL EXISTING AV EQUIPMENT (I.E. PROJECTORS & SCREENS) TO OWNER. PROTECT FLOOR DURING CEILING REMOVALS IN AREAS WITH EXISTING FLOORING TO REMAIN.
- D5 REMOVE EXISTING ELEMENT. SEE MEP REMOVAL DRAWINGS.
- D6 REMOVE PORTION OF EXISTING WALL AS REQUIRED TO RECEIVE SCHEDULED DOOR/WINDOW ASSEMBLY. COORDINATE WITH NEW WORK.
- D7 TOILET ROOMS - REMOVE EXISTING FLOOR, WALL AND CEILING FINISHES INCLUDING LIGHTING & OTHER CEILING/WALL MOUNTED ELEMENTS U/NO. REMOVE EXISTING PLUMBING CHASE WALL. PREPARE SURFACES TO RECEIVE FINISHES AS SCHEDULED. REMOVE EXISTING PLUMBING FIXTURES INCLUDING CORRIDOR DRINKING FOUNTAINS, TOILET PARTITIONS AND ACCESSORIES COMPLETE. PARTIAL HEIGHT CMU PARTITIONS TO REMAIN
- D8 REMOVE EXISTING GLAZING ASSEMBLY. INFILL WALL TO MATCH EXISTING.
- D9 REMOVE BASE & UPPER CABINETS & COUNTER COMPLETE. PATCH & REPAIR WALL AND ALL EFFECTED SURFACES.
- D14 REMOVE EXISTING DUST COLLECTION EQUIPMENT AND ASSOCIATED DUCTWORK COMPLETE. INFIL DUCTWORK WALL PENETRATIONS TO MATCH EXISTING. SEE MEP DWGS.
- D15 REMOVE EXISTING SILL & APRON.
- D16 REMOVE GYP BD AT SOFFIT (ABOVE) TO EXTENT NECESSARY FOR MC TO PERFORM MECH WORK WITHIN SOFFIT. GC TO RELOCATE METAL FRAMING TO ACCOMMODATE SCHEDULED MECH EQUIPMENT. SEE MECH DWGS, COORD WITH MC. REMOVE & REPLACE PORTION OF EXIST ACT CEILINGS TO ACCOMMODATE NEW GYP SOFFITS, SEE RCP.

KEYNOTES

- 1 PROVIDE FINISH FLOORING & WALL BASE AS SCHEDULED. SEE FLOOR FINISH PLANS & FINISH SCHEDULE. SALVAGE & REINSTALL EXISTING INTERIOR DOOR SADDLES & TRANSITION STRIPS AS NEEDED.
- 5 CASEWORK BY GC. SEE ELEVATIONS AND DETAILS FOR MORE INFORMATION.
- 6 TRENCH CONCRETE FLOOR TO REPLACE BROKEN WASTE PIPE FOR MOP SINK, SEE MEP DRAWINGS. INFILL TRENCH TO MATCH EXISTING.
- 7 PROVIDE NEW SILL. SEE ELEVATIONS AND DETAILS FOR MORE INFORMATION.
- 9 MC SHALL BE RESPONSIBLE FOR ACCESS CUTTING & PATCHWORK AS NEEDED TO ACCOMMODATE SCHEDULED MECH EQUIPMENT WITHIN EXISTING SOFFITS. SEE MECH DRAWINGS. COORD REQUIRED CLEARANCES. MC SHALL PROVIDE ACCESS PANELS.
- 10 GC SHALL PROVIDE PAINTED GWB SOFFIT ON CFMF TO MATCH EXIST SOFFIT HEIGHT. 2'-0" WIDTH AS SHOWN TO ACCOMMODATE SCHEDULED MECH EQUIPMENT & DUCTWORK BY MC. AT NEW SOFFITS, MC SHALL FURNISH ACCESS PANELS FOR GC TO INSTALL.

LIGHTING SYMBOL LEGEND

(SEE ELEC DWGS FOR LIGHT FIXTURE SCHEDULE)

KEY	DESCRIPTION
A	RECESSED 2X4 LED TROFFER
B	RECESSED 1X4 LED
C	6" SQUARE RECESSED DOWNLIGHT
D	WALL MOUNTED LED WALL SCONCE
E	RECESSED 2X4 TROFFER (KITCHEN)
F	SURFACE MOUNTED CURVED LED DOWNLIGHT
G	SURFACE MOUNTED LINEAR LED DOWNLIGHT (PATCH EXIST GYP CLNG)
H	LED PENDANT
J	LED PENDANT
K	1X4 CHAIN HUNG LED
L	EXTERIOR RECESSED LED DOWNLIGHT
P	LED SCONCE, CENTER ABOVE SINK
Q	LED RECESSED

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Key Plan

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No.	Date	Issue
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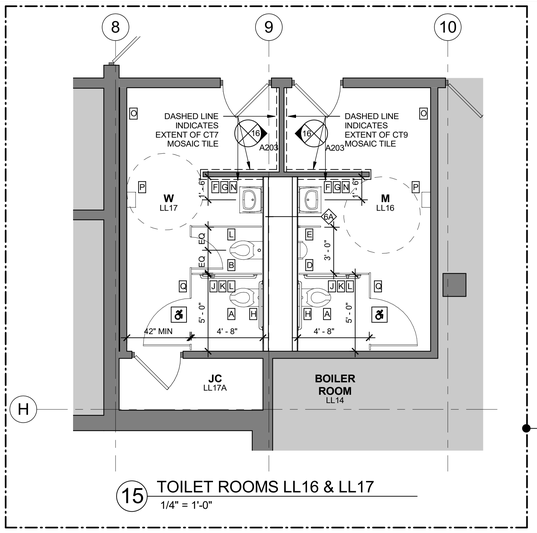
1	01/17/2020	SED ISSUE

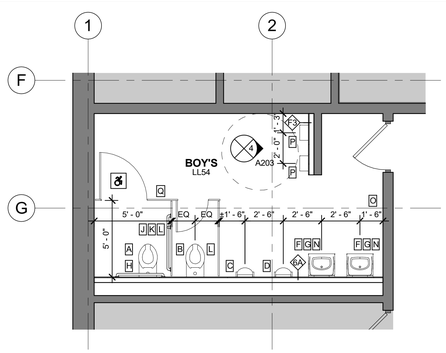
Sheet Title
PARTIAL LOWER FLOOR DEMO, PROPOSED & CEILING PLANS

Job No.	Date
2019-1029	01/17/2020
Scale: AS NOTED	Drawn / Checked: -

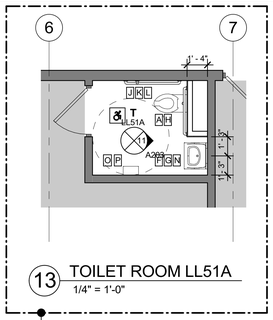
Sheet Number
A202



15 TOILET ROOMS LL16 & LL17
1/4" = 1'-0"



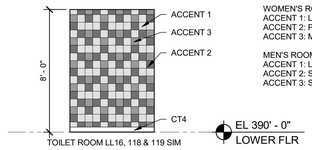
14 TOILET ROOM LL54
1/4" = 1'-0"



13 TOILET ROOM LL51A
1/4" = 1'-0"

ALTERNATE No. 1
ALL WORK ASSOCIATED WITH RENOVATION OF TOILET ROOMS LL16, LL17, LL51A, 218, & 218A.

BASE BID: NO WORK

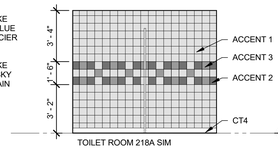


EL 390' - 0"
LOWER FLR

WOMEN'S ROOM CT7:
ACCENT 1: LIGHT SMOKE
ACCENT 2: PEACOCK BLUE
ACCENT 3: MATTE GLACIER

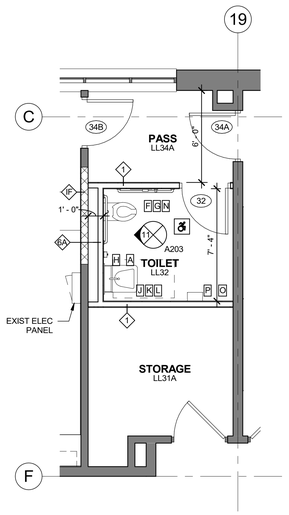
MEN'S ROOM CT9:
ACCENT 1: LIGHT SMOKE
ACCENT 2: SAPPHIRE SKY
ACCENT 3: SUMMER RAIN

16 TOILET ROOM LL17
1/4" = 1'-0"

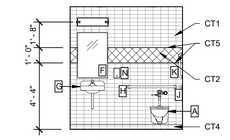


EL 412' - 8"
2nd FLR

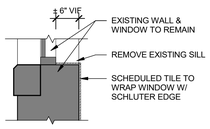
17 TOILET ROOM 118
1/4" = 1'-0" TYP. PATTERN ALL WALLS



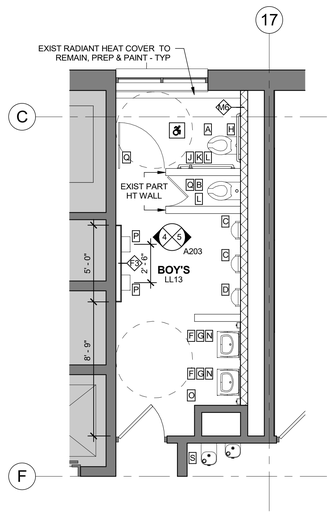
12 TOILET ROOMS LL31A & LL34A
1/4" = 1'-0"



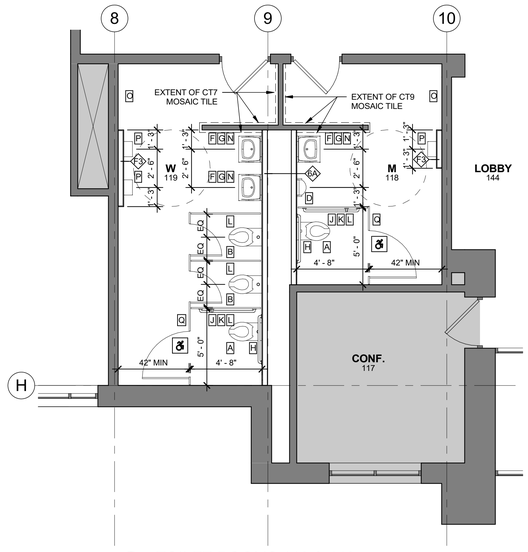
11 TOILET ROOM LL32
1/4" = 1'-0" TYP. PATTERN ALL WALLS



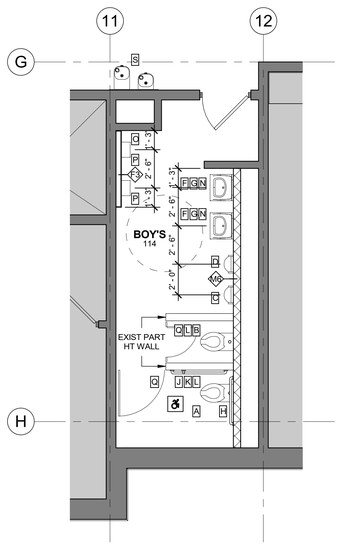
10 TYP TOILET RM SILL
3/4" = 1'-0"



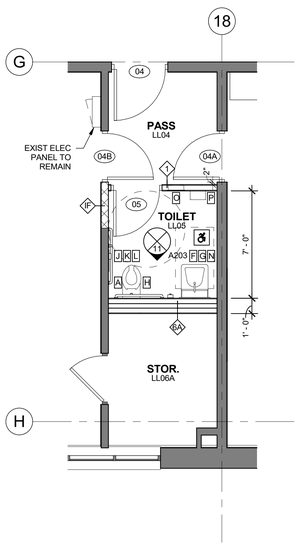
9 TOILET ROOM LL13
1/4" = 1'-0"



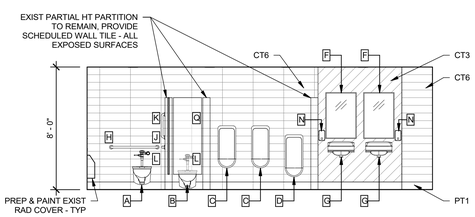
8 TOILET ROOMS 118 & 119
1/4" = 1'-0"



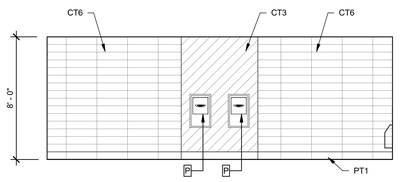
7 TOILET ROOM 114
1/4" = 1'-0"



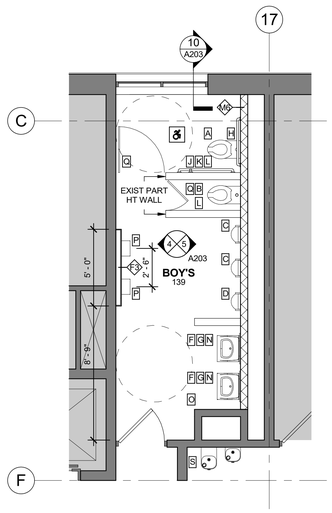
6 TOILET ROOM LL05
1/4" = 1'-0"



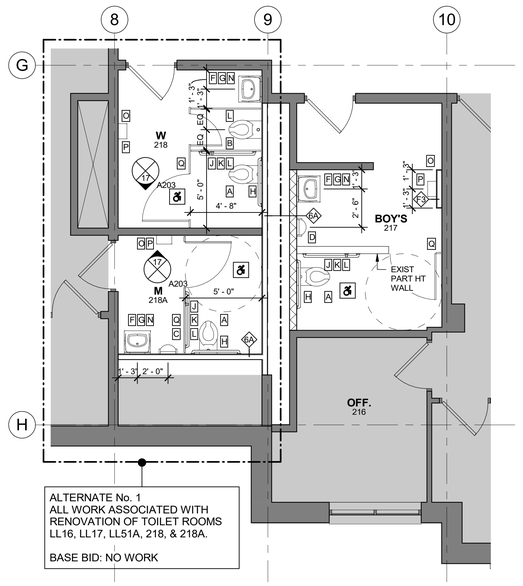
5 TOILET ROOM LL113
1/4" = 1'-0" TOILET ROOMS LL54, 114, 139, 217 & 233 SIM.



4 TOILET ROOM LL13
1/4" = 1'-0" TOILET ROOMS LL54, 114, 139, 217 & 233 SIM.



3 TOILET ROOM 139
1/4" = 1'-0"



ALTERNATE No. 1
ALL WORK ASSOCIATED WITH RENOVATION OF TOILET ROOMS LL16, LL17, LL51A, 218, & 218A.

BASE BID: NO WORK

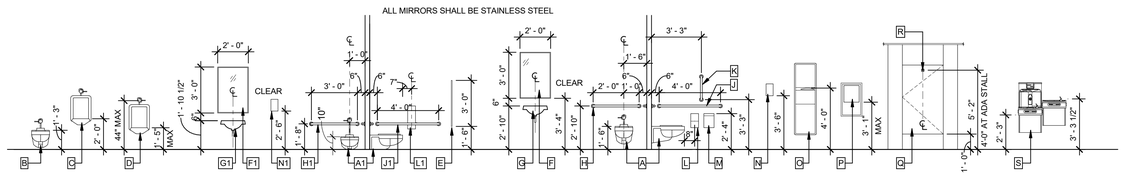
2 TOILET ROOMS 217, 218 & 218A
1/4" = 1'-0"

A	ADA WALL- HUNG TOILET	E	URINAL SCREEN	H	REAR TOILET GRAB BAR	L	TOILET PAPER ROLL DISPENSER
A1	CHILD FLOOR MOUNTED TOILET	F	WALL MIRROR w/ FRAME	H1	CHILD REAR TOILET GRAB BAR	L1	CHILD TOILET PAPER ROLL DISPENSER
B	STANDARD WALL-HUNG TOILET	F1	CHILD WALL MIRROR w/ FRAME	J	SIDE TOILET GRAB BAR	M	SANITARY DISPOSAL
C	STANDARD WALL-HUNG URINAL	G	LAVATORY	J1	CHILD SIDE TOILET GRAB BAR	N	LIQUID SOAP DISPENSER
D	ADA/CHILD WALL-HUNG URINAL	G1	CHILD LAVATORY	K	SIDE TOILET VERTICAL GRAB BAR	N1	CHILD LIQUID SOAP DISPENSER

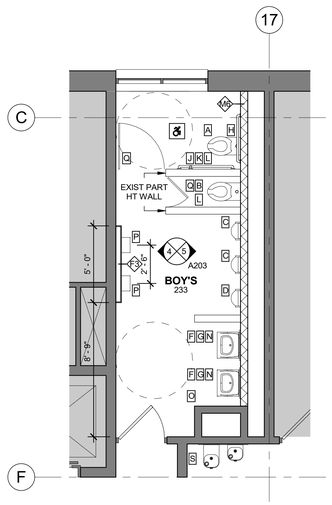
NOTE:
ACCESSORIES L, L1, M, N & N1 ARE SUPPLIED BY OWNER, INSTALLED BY GC.

O	WASTE RECEPTACLE, RECESSED - SAW-CUT EXIST WALLS	P	ELECTRIC HAND DRYER W/ ADA RECESS KIT
Q	FLOOR-MOUNTED OVERHEAD-BRACED TOILET PARTITION	R	COAT HOOK
S	WALL-HUNG BI-LEVEL DRINKING FOUNTAIN		

ALL MIRRORS SHALL BE STAINLESS STEEL



TOILET ROOM EQUIPMENT SCHEDULE WITH TYPICAL MOUNTING HEIGHTS
1/4" = 1'-0"



1 TOILET ROOM 233
1/4" = 1'-0"

BETHUNE LEARNING CENTER

Alterations

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NOTE:
GC TO PROVIDE CONCRETE TRENCHING FOR PROPOSED UNDERSLAB SANITARY PIPING & FLOOR DRAINS AS SHOWN ON THE PLUMBING DRAWINGS.

AT TRENCHING INFILL, PROVIDE #3 BARS x 1'-0" LONG AT 18" O.C.. DRILL & EPOXY BARS INTO CENTER OF EXISTING SLAB, 6" EMBEDMENT. STAGGER REINFORCEMENT BARS AS REQUIRED FOR NARROW WIDTH TRENCHES. REINFORCE CONCRETE SOG PATCHWORK IN LONG DIRECTION WITH A MINIMUM OF (2) #3 BARS TIED TO DOWELS CENTERED IN SLAB THICKNESS. SOG PATCHWORK SHALL BEAR ON 6" COMPACTED GRANULAR FILL.

Key Plan

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Sheet Title

TOILET ROOMS

Job No. 2019-1029	Date 01/17/2020
Scale AS NOTED	Drawn / Checked -

Sheet Number

A203

DECK TYPE CHART & INSULATION REQUIREMENTS

ROOF AREA	DECK TYPE	STARTING THICKNESS OF NEW INSULATION	MINIMUM R-VALUE OF NEW INSULATION	AVERAGE THICKNESS OF NEW INSULATION	AVERAGE R-VALUE OF NEW INSULATION
A	CONCRETE	5.5"	30	6.8"	39.8
B	METAL	5.5"	30	7"	41
C	CONCRETE	5.5"	30	5.8"	33.9
D	METAL	5.5"	30	6.3"	36.8

NOTES:

1. INSTALL INSULATION WITH A MINIMUM R-VALUE OF 30 FOR CONTINUOUS INSULATION ENTIRELY ABOVE THE DECK, TO MEET THE NYS ENERGY CONSERVATION CONSTRUCTION CODE, INCLUDING THE INTERNATIONAL ENERGY CONSERVATION CODE AND THE NY STATE SUPPLEMENT, FOR A BUILDING IN CLIMATE ZONE 4.
2. INSTALL TAPERED ISOCYANURATE INSULATION THAT SLOPES 1/8 INCH PER FOOT; MINIMUM STARTING THICKNESS 5-1/2 INCHES. INSTALL THE ISOCYANURATE INSULATION IN MULTIPLE LAYERS, WITH THE THICKEST LAYER BEING 4 INCHES. STAGGER ALL JOINTS BETWEEN LAYERS 12 INCHES.
3. INSTALL ISOCYANURATE INSULATION CRICKETS UNDER THE TAPERED INSULATION.
4. INSTALL A COVER BOARD USING LOW RISE FOAM ADHESIVE OVER THE INSULATION AND CRICKETS.

ROOF PROTECTION NOTES:

1. AVOID WALKING ON NEW AND EXISTING N.I.C. ROOF AREAS.
2. DO NOT STORE MATERIAL OR EQUIPMENT, AND DO NOT PILE DEBRIS ON NEW ROOF AREAS.
3. INSTALL 1 INCH THICK EXTRUDED POLYSTYRENE INSULATION OVER 6 MIL FIRE RETARDANT POLYETHYLENE, COVERED WITH 2x10 WOOD PLANKS TO PROTECT ROOFING WHERE CONSTRUCTION WORK AND TRAFFIC WILL OCCUR.
4. NEATLY CUT AND POSITION ROOF PROTECTION COMPONENTS TO FIT WITHIN 1/2 INCH OF ROOF PENETRATIONS, EAVES AND CHANGE IN ELEVATION WALLS.
5. DO NOT COVER THE ROOF DRAINS. MAINTAIN THE ROOF DRAIN STRAINERS VISIBLE AND CLEAR AT ALL TIMES.

LIGHTNING PROTECTION SYSTEM NOTES:

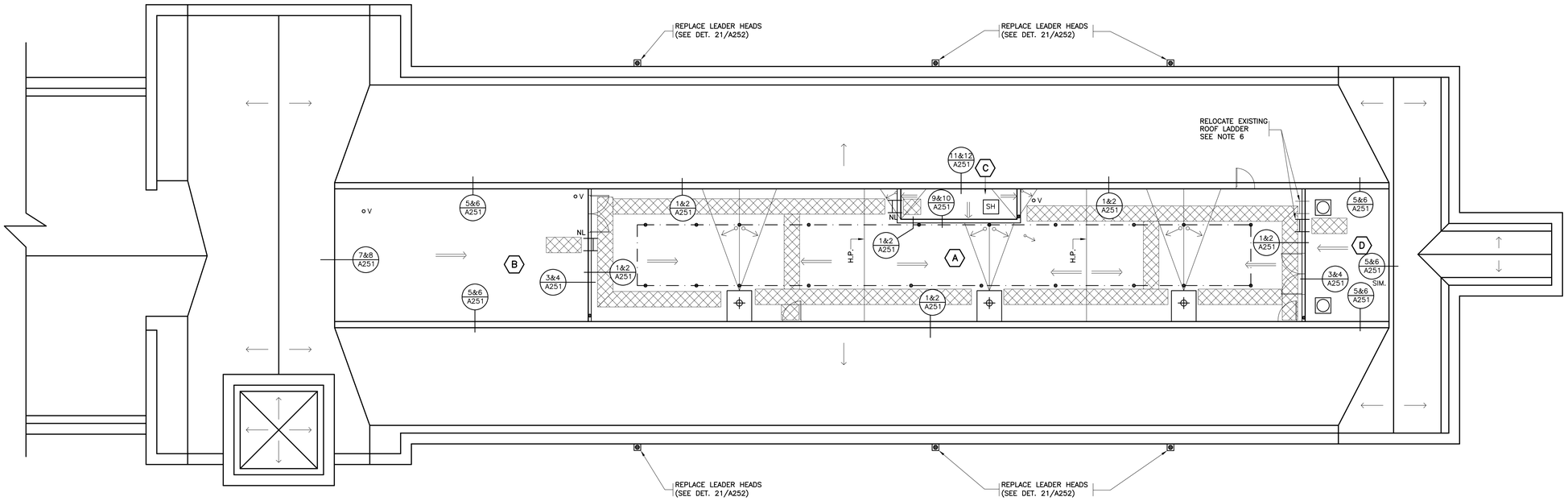
1. EXISTING LIGHTNING PROTECTION SYSTEM COMPONENTS ARE NOT SHOWN.
2. CAREFULLY DISCONNECT, SAVE AND SET ASIDE LIGHTNING PROTECTION SYSTEM COMPONENTS AS NEEDED TO PERFORM THE ROOF WORK INDICATED.
3. REINSTALL AND RESET LIGHTNING SYSTEM COMPONENTS TO MATCH THE ORIGINAL CONFIGURATION, WITH NEW FLASHINGS AT THE CABLE PENETRATIONS AND TERMINALS.
4. PROVIDE NEW MOUNTING BRACKETS, CLIPS, CABLE SPLICES, SECTIONS OF CABLE, AND SIMILAR COMPONENTS, TO REPLACE ANY THAT CAN'T BE PROPERLY REUSED AND RESET.
5. WORK ON THE LIGHTNING PROTECTION SYSTEM WORK SHALL BE PERFORMED BY PERSONNEL THAT HAVE PERFORMED THE SAME TYPE OF WORK FOR AT LEAST 5 YEARS.

GENERAL NOTES:

1. DIMENSIONS AND CONDITIONS ON THE ROOF PLAN AND DETAILS ARE APPROXIMATE AND SHALL BE CONFIRMED BY THE CONTRACTOR.
2. ONLY CERTAIN FASTENERS ARE SHOWN ON THE DRAWINGS, REFER TO THE SPECIFICATIONS FOR ADDITIONAL FASTENER REQUIREMENTS.
3. TEST EACH DRAIN LINE WITH A RUNNING HOSE FOR AT LEAST ONE HOUR PRIOR TO STARTING ANY OTHER WORK ON SITE. PROVIDE A WRITTEN REPORT OF ANY CLOGGED LINES TO THE OWNER.
   A. CLOGGED DRAIN LINES REPORTED TO THE OWNER BEFORE WORK STARTS WILL BE CLEANED BY THE OWNER.
   B. COVER & PROTECT ALL DRAIN OPENINGS AT THE BEGINNING OF EACH WORK DAY. REMOVE THE COVERS AT THE END OF EACH DAY AND BEFORE PRECIPITATION OCCURS.
   C. PERFORM WHATEVER WORK IS REQUIRED SO ALL DRAIN LINES ARE CLEAN AND FREE FLOWING UPON COMPLETION OF THE PROJECT.
4. WIRE BRUSH, PRIME & PAINT ALL ROOF TOP EQUIPMENT HOUSINGS, BULKHEAD DOORS & DOOR FRAMES (BOTH SIDES), STEEL DUNNAGE AND COLUMNS, AND THE VENT PIPES. DO NOT PAINT OVER EQUIPMENT NAME PLATES AND LABELS.
5. REPAIR EXHAUST EQUIPMENT HOUSINGS SO THEY ARE WATERTIGHT; REPLACE ANY MISSING PIECES.
6. REMOVE, MODIFY, RELOCATE, AND REMOUNT THE EXISTING LADDER, REWORK IT SO ITS OSHA COMPLIANT (SEE DET. 19/A252 SIM.). REMOVE CONCRETE SUPPORT PAD. FILL OLD FASTENER HOLES WITH COLOR MATCHING SEALANT.
7. REFASTEN LOOSE SECTIONS OF METAL DECKS AS BASE BID WORK. REPAIR SURFACE DEFECTS LESS THAN 1/2 INCH DEEP IN THE TOP SURFACE OF CONCRETE DECKS AS BASE BID WORK USING FAST SETTING CONCRETE GROUT. REPLACE DAMAGED OR DETERIORATED SECTIONS OF DECK IN ACCORDANCE WITH THE UNIT PRICES.
8. SEE MECHANICAL DRAWINGS FOR REMOVALS AND NEW EQUIPMENT. COVER ALL DUCTWORK WITH INSULATION AND EPDM (SEE DETAIL 20/A252). SET NEW DUCT SUPPORTS AND EQUIPMENT PIPES AND CONDUIT ON 1'-0" x 1'-0" x 2" THICK CONCRETE PAVERS SET ON WALKWAY PADS.

CODE COMPLIANCE REQUIREMENTS:

1. INSTALL NEW ROOFING TO MEET THE FOLLOWING MINIMUM REQUIREMENTS:
   A. NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, WHICH INCLUDES BY REFERENCE THE NEW YORK STATE ENERGY CONSERVATION CODE.
   B. UNDERWRITERS LABORATORIES INC. CLASS A EXTERNAL FIRE RATING FOR ROOF ASSEMBLIES TESTED IN ACCORDANCE WITH ASTM E 108 OR UL 790.
   C. UNDERWRITERS LABORATORIES INC. STANDARD 1256 FOR ROOF ASSEMBLIES WITH FOAM INSULATION.
2. INSTALL ROOFING TO COMPLY WITH THE WIND UPLIFT REQUIREMENTS OF THE NY STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, BASED ON THIS CRITERIA:
   RISK CATEGORY III
   BASIC WIND SPEED 130 MPH
   EXPOSURE CATEGORY B
   BUILDING HEIGHT 30 FT.
3. INSTALL ROOFING AS INDICATED TO RESIST THE FOLLOWING UPLIFT LOADS, CALCULATED IN ACCORDANCE WITH ASCE 7 USING A SAFETY FACTOR OF 2:
   FIELD ZONE: 60 PSF
   PERIMETER ZONE: 100 PSF
   CORNER ZONE: 150 PSF
4. FABRICATE AND INSTALL ROOF PERIMETER FLASHINGS THAT COMPLY WITH THE NY STATE UNIFORM FIRE PREVENTION AND BUILDING CODE AND WITH ANSI/SPRI ES-1 "WIND STANDARD FOR EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS", ON A BUILDING USING THE CRITERIA DESCRIBED ABOVE.
5. FABRICATE AND INSTALL WOOD BLOCKING COMPONENTS TO RESIST A FORCE OF 275 POUNDS PER LINEAL FOOT APPLIED IN ANY DIRECTION.



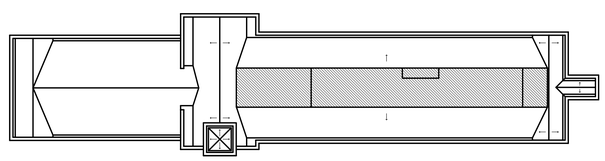
PARTIAL ROOF PLAN

0' 2' 4' 8'

PROJECT NORTH

LEGEND:

- A — ROOF AREA DESIGNATION
- GUTTER & LEADER (SEE DETS. 3,4,9, & 10/A251)
- ROOF DRAIN (SEE DET. 13/A252)
- EXHAUST FAN (SEE DET. 14/A252)
- V — VENT PIPE (SEE DET. 15/A252)
- STEEL DUNNAGE & COLUMN (SEE DET. 16/A252)
- SH — SMOKE HATCH (SEE DET. 17/A252)
- ROOF ACCESS DOOR (SEE DET. 18/A252)
- NL — NEW ROOF LADDER (SEE DET. 19/A252)
- LEADER HEAD (SEE DET. 21/A252)
- TAPERED ISOCYANURATE INSULATION, MIN. 5-1/2" THICK, SLOPE 1/8" PER FT
- CRICKET- SLOPE 1/4" PER FT
- WALKWAY PADS
- EXISTING SLOPED STANDING SEAM METAL ROOF TO REMAIN



KEY PLAN

N.T.S.

PROJECT NORTH

LEGEND:

- ROOF AREAS BEING REPLACED
- EXISTING ROOFING TO REMAIN

BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

1 Echo Hill Drive - Building #36
Dobbs Ferry, NY 10522

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CONSTRUCTION DOCUMENTS

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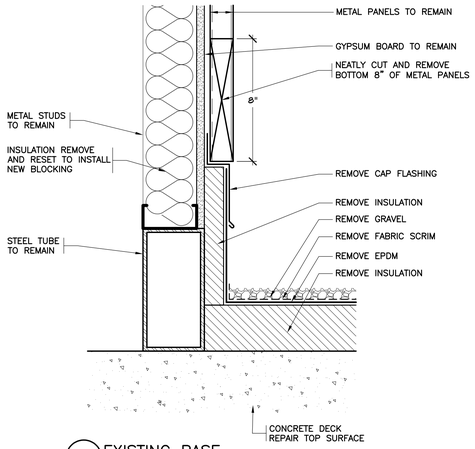
PARTIAL ROOF PLAN

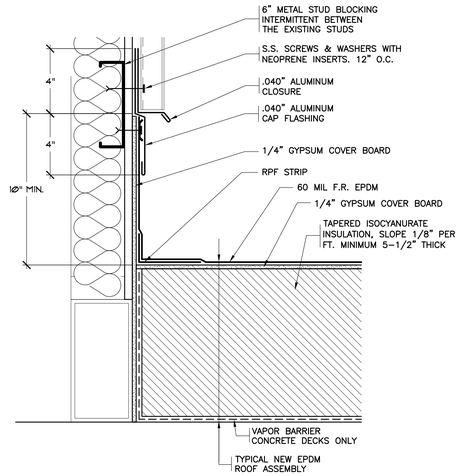
Job No.	Date
2019-1029	
Scale: AS NOTED	Drawn / Checked

Sheet Number

A250



1 EXISTING BASE
SCALE: 0 1" 2" 4" 8"



2 REVISED BASE
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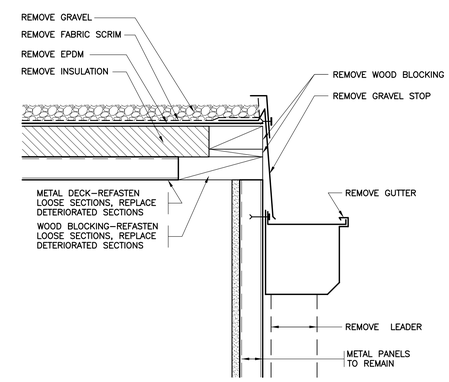
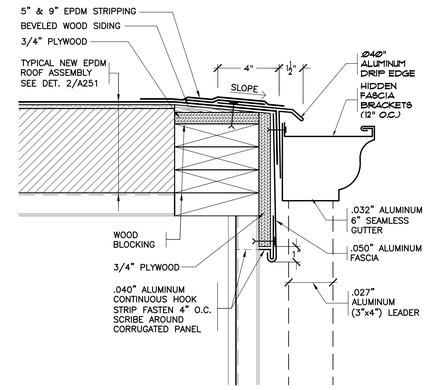


3 EXISTING GUTTER EAVE
SCALE: 0 1" 2" 4" 8"



NOTE:
INSTALL CONCRETE SPLASH BLOCK OVER A WALKWAY PAD AT BOTTOM OF ALL LEADERS.

4 REVISED GUTTER EAVE
SCALE: 0 1" 2" 4" 8"

5 EXISTING TRANSITION
SCALE: 0 1" 2" 4" 8"

6 REVISED TRANSITION
SCALE: 0 1" 2" 4" 8"

7 EXISTING TRANSITION
SCALE: 0 1" 2" 4" 8"

8 REVISED TRANSITION
SCALE: 0 1" 2" 4" 8"

9 EXISTING EAVE
SCALE: 0 1" 2" 4" 8"

NOTE:
INSTALL CONCRETE SPLASH BLOCK OVER A WALKWAY PAD AT BOTTOM OF ALL LEADERS.

10 REVISED EAVE
SCALE: 0 1" 2" 4" 8"

11 EXISTING TRANSITION
SCALE: 0 1" 2" 4" 8"

12 REVISED TRANSITION
SCALE: 0 1" 2" 4" 8"

BETHUNE LEARNING CENTER

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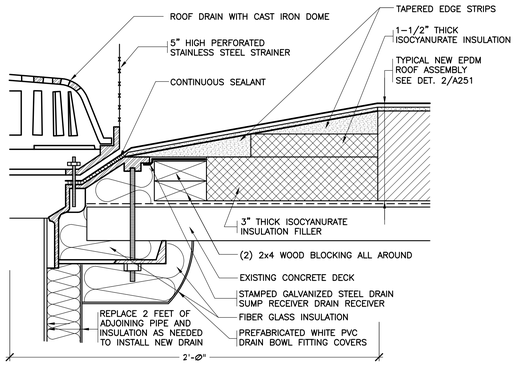
Sheet Title

ROOF DETAILS

Job No.	Date
2019-1029	
Scale	Drawn / Checked
AS NOTED	

Sheet Number

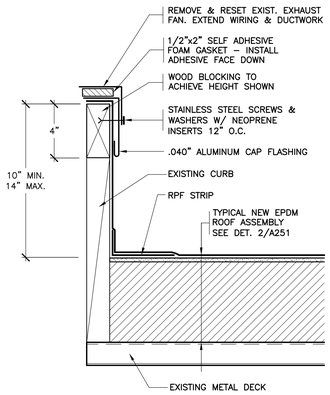
A251

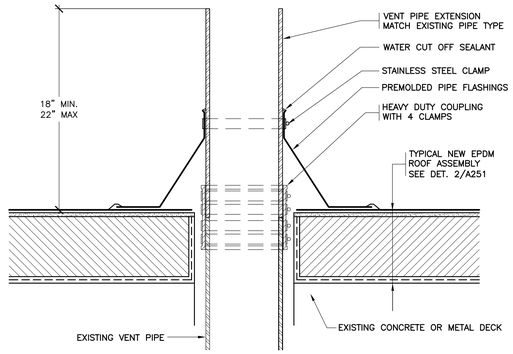


NOTES:
1. REMOVE EXISTING ROOF DRAINS AND RELATED FLASHINGS.

2. INSTALL TAPERED EDGE STRIPS & INSULATION FILLERS TO CREATE A MINIMUM 4 FT. x 4 FT. SQUARE SUMP AT EACH DRAIN.

3. INSTALL INSULATION WHERE MISSING ON ALL HORIZONTAL DRAIN LINES, NEW VERTICAL DRAIN LINES AND THE UNDERSIDE OF THE NEW DRAIN BOWL.

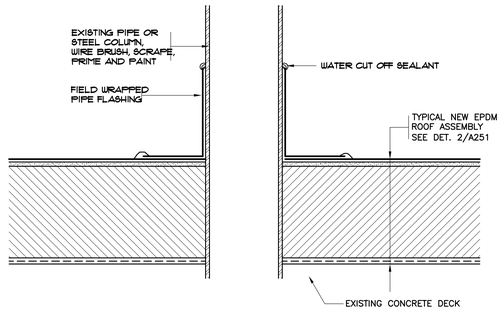




NOTES:
1. REMOVE ALL EXISTING FLASHINGS.

2. REMOVE KENNEDY COUPLINGS AND EXTEND VENT PIPES TO MEET MIN. HEIGHT REQUIREMENT.

3. INSTALL PREMOLDED PIPE FLASHINGS WHENEVER POSSIBLE. WHEN PREMOLDED PIPE FLASHINGS CANNOT BE INSTALLED USE FIELD WRAPPED FLASHINGS.



NOTE:
REMOVE ALL EXISTING FLASHINGS INCLUDING SEALANT POCKETS.

13 REVISED ROOF DRAIN
SCALE: 0 1" 2" 4" 8"

NOTE:
REMOVE EXISTING GOOSENECK VENTILATOR, CURB, AND RELATED FLASHINGS.

14 REVISED EXHAUST FAN
SCALE: 0" 1" 2" 4" 8"

NOTE:
REMOVE EXISTING DOOR SADDLE AND RELATED FLASHINGS.

15 REVISED VENT PIPE
SCALE: 0" 1" 2" 4" 8"

NOTES:
1. GRIND ALL WELDS SMOOTH AND HOT DIP GALVANIZE ENTIRE ASSEMBLY AFTER FABRICATION.

2. LADDER SHALL BE OSHA COMPLIANT.

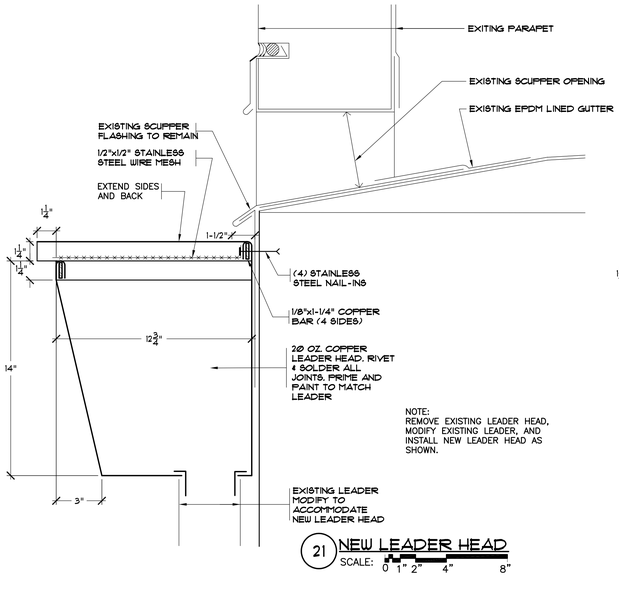
16 REVISED COLUMN FLASHING
SCALE: 0" 1" 2" 4" 8"

NOTES:
1. SEE MECHANICAL DRAWINGS FOR NEW ROOFTOP DUCTWORK. COVER SEAMS IN THE DUCT WITH EPDM STRIPPING TO ASSURE THEY ARE NOT LEAKING ANY AIR. INSTALL NEW 3" THICK ISOCYANURATE INSULATION ON THE SIDES AND BOTTOM OF THE DUCTS, AND TAPERED INSULATION SLOPING 1/8" PER FOOT, MINIMUM 3" THICK ON TOP OF THE DUCTS. COVER THE INSULATION WITH FULLY ADHERED 60 MIL F.R. EPDM.

2. SET NEW DUCT SUPPORTS ON NEW 1'–0"x1'–0"x2" THICK CONCRETE PAVERS OVER WALKWAY PADS. FASTEN SUPPORTS TO PAVERS WITH 2 S.S. NAIL–INS. PRIME AND PAINT THE SUPPORTS.

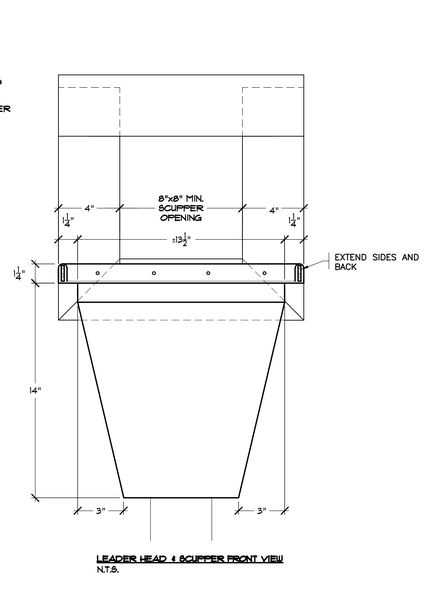
3. ON THE SIDES OF THE DUCTS LOOSEN THE EXISTING METAL WALL PANELS, AND EXTEND THE NEW EPDM ONTO THE WALL BEHIND THE PANELS A MINIMUM OF 6". INSTALL ALUMINUM 'J' MOLD AND REFASTEN THE PANELS. ON THE BOTTOM OF THE DUCTS REMOVE THE EXISTING WALL PANELS AND EXTEND THE EPDM FROM THE DUCTS TO LAP OVER THE BASE FLASHING EPDM.

17 NEW SMOKE HATCH
SCALE: 0 1" 2" 4" 8"



NOTE:
REMOVE EXISTING LEADER HEAD, MODIFY EXISTING LEADER, AND INSTALL NEW LEADER HEAD AS SHOWN.

18 REVISED DOOR FLASHING
SCALE: 0 1" 2" 4" 8"



LEADER HEAD & SCUPPER FRONT VIEW
N.T.S.

19 NEW ROOF LADDER
NOT TO SCALE

20 NEW DUCT WATERPROOFING
SCALE: N.T.S.

BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

1 Echo Hill Drive - Building #36
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CONSTRUCTION DOCUMENTS

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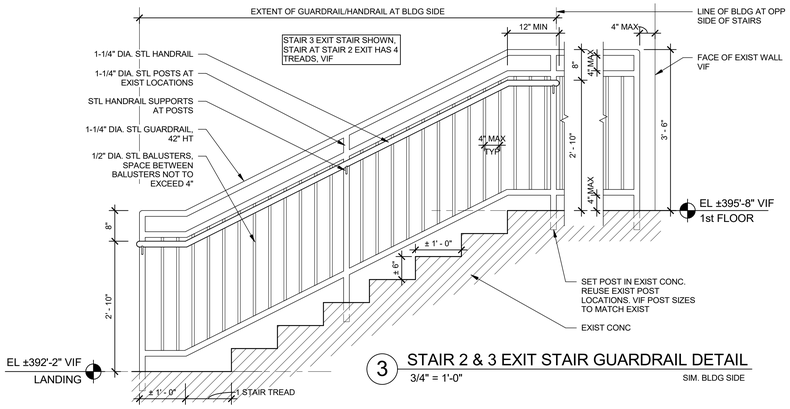
ROOF DETAILS

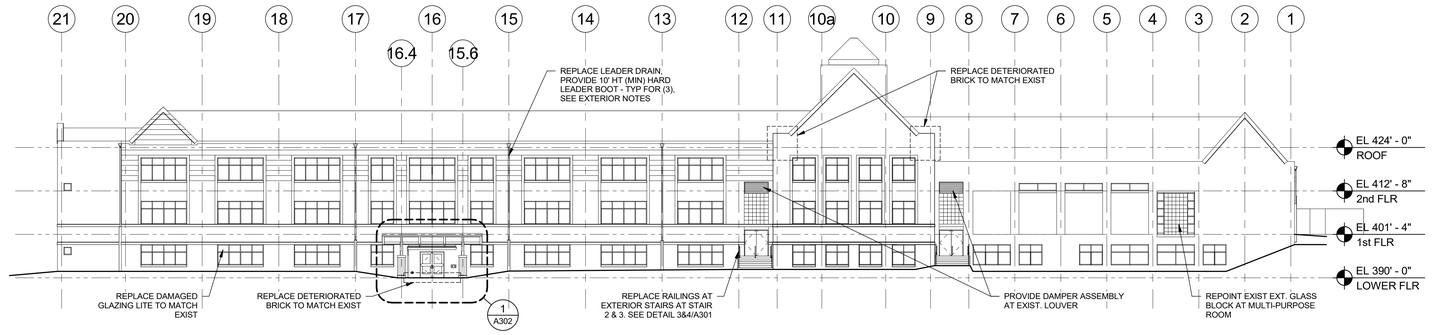
Job No. 2019-1029	Date
Scale AS NOTED	Drawn / Checked

Sheet Number

A252



3 STAIR 2 & 3 EXIT STAIR GUARDRAIL DETAIL
3/4" = 1'-0" SIM. BLDG SIDE



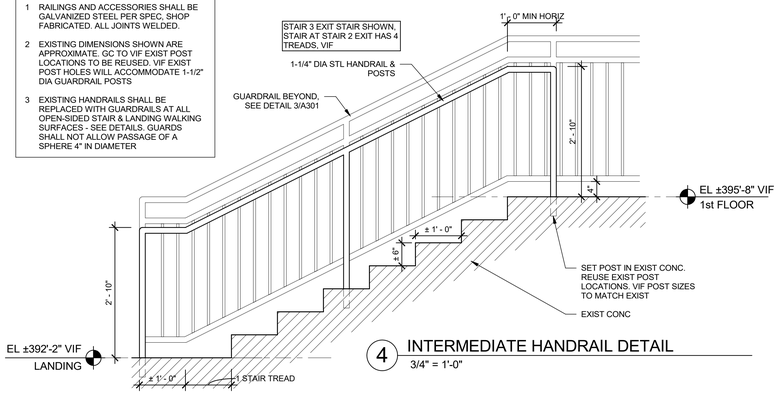
N NORTH ELEVATION
1/16" = 1'-0"

RAILING NOTES

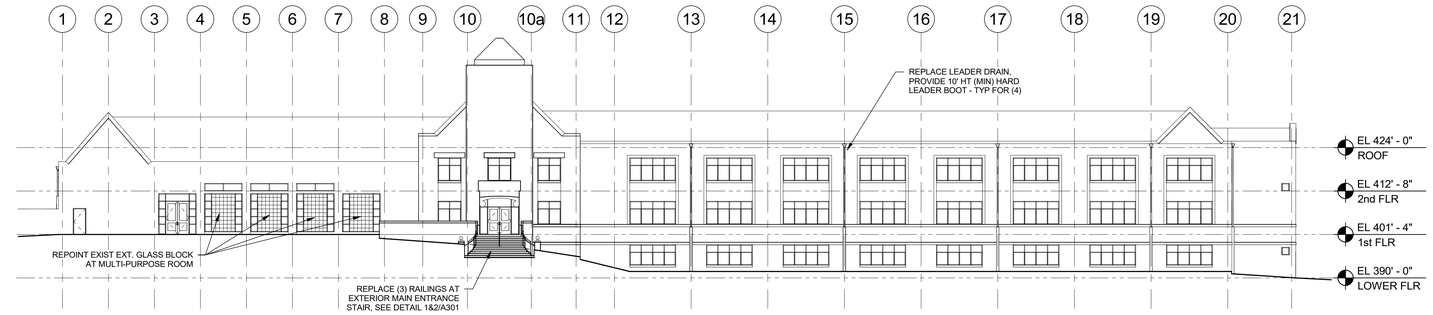
1 RAILINGS AND ACCESSORIES SHALL BE GALVANIZED STEEL PER SPEC, SHOP FABRICATED. ALL JOINTS WELDED.

2 EXISTING DIMENSIONS SHOWN ARE APPROXIMATE. GC TO VIF EXIST POST LOCATIONS TO BE REUSED. VIF EXIST POST HOLES WILL ACCOMMODATE 1-1/2" DIA GUARDRAIL POSTS

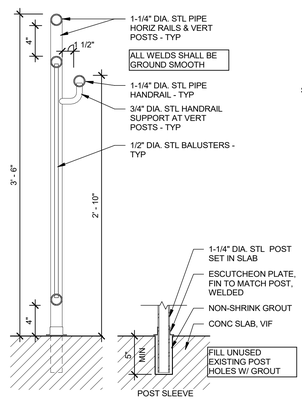
3 EXISTING HANDRAILS SHALL BE REPLACED WITH GUARDRAILS AT ALL OPEN-SIDED STAIR & LANDING WALKING SURFACES - SEE DETAILS. GUARDS SHALL NOT ALLOW PASSAGE OF A SPHERE 4" IN DIAMETER



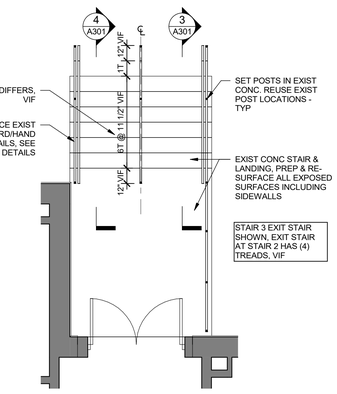
4 INTERMEDIATE HANDRAIL DETAIL
3/4" = 1'-0"



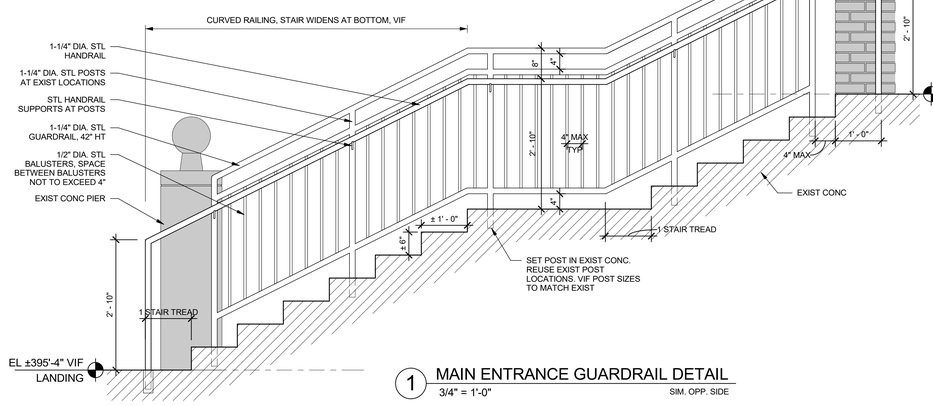
S SOUTH ELEVATION
1/16" = 1'-0"



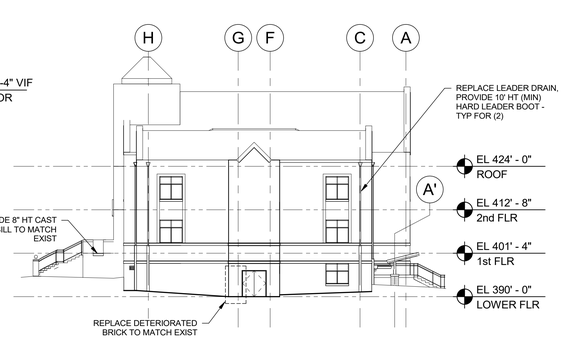
7 GUARDRAIL SECTION DETAIL
1 1/2" = 1'-0"



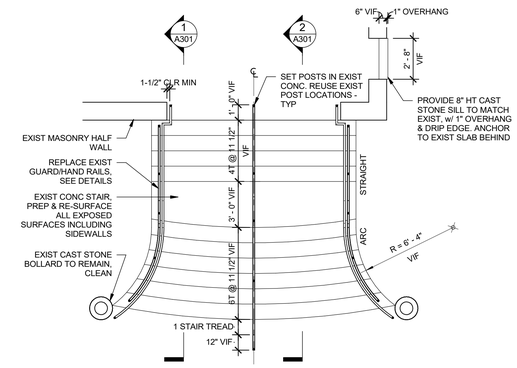
5 STAIR 2 & 3 EXIT STAIR PLAN
1/4" = 1'-0" SIM AT STAIR 2



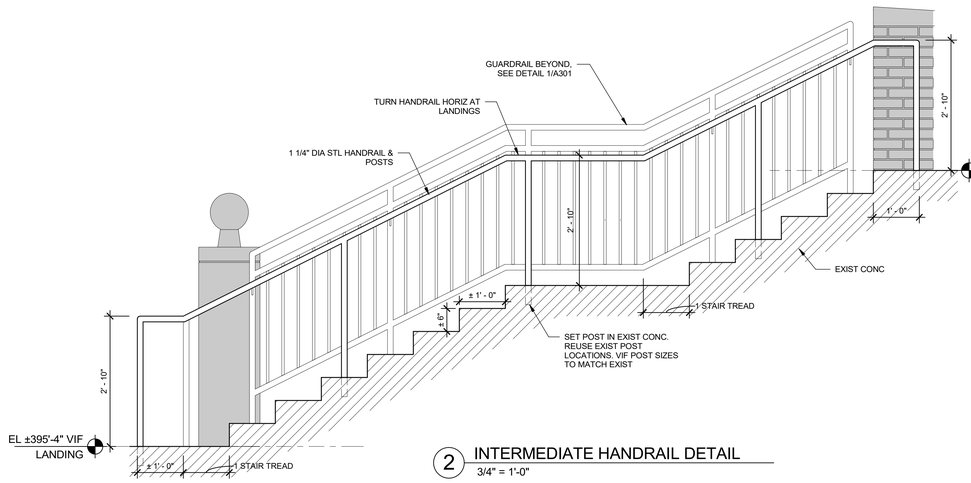
1 MAIN ENTRANCE GUARDRAIL DETAIL
3/4" = 1'-0" SIM. OPP. SIDE



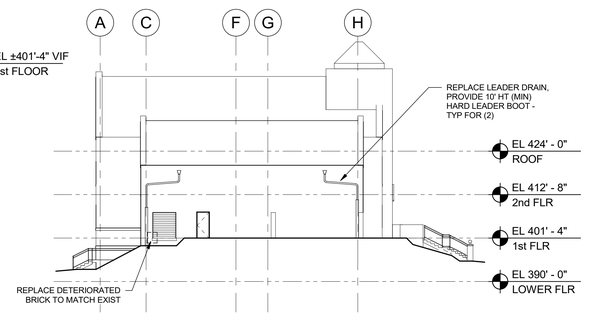
E EAST ELEVATION
1/16" = 1'-0"



6 MAIN ENTRANCE STAIR PLAN
1/4" = 1'-0"



2 INTERMEDIATE HANDRAIL DETAIL
3/4" = 1'-0"



W WEST ELEVATION
1/16" = 1'-0"

BETHUNE LEARNING CENTER

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CONSTRUCTION DOCUMENTS

EXTERIOR NOTES

1 PROVIDE 1,000 SF OF BRICK REPOINTING & 1,000 SF OF BRICK REPLACEMENT. SPECIFIC LOCATIONS NOTED ON EXTERIOR ELEVATIONS

2 CLEAN EXTERIOR BRICK, MORTAR & CAST STONE LINTELS/BANDING, ENTIRE BUILDING

3 LEADER DRAIN REPLACEMENT:

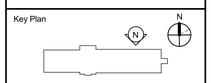
AT EACH REPACEMENT LOCATION, PROVIDE 4" X 3" STRAIGHT TAPPED T (CHARLOTTE PART SV 83 OR EQ) W/ BRASS PLUG & (1) 10' LONG SECTION OF SINGLE HUB 4" CAST IRON PIPE (CHARLOTTE PART SV3 OR EQ). SECURE CAST IRON T & PIPE TO EXIST BLDG FACADE W/ 1-1/4" WIDE x 1/8" THK STEEL STRAPS SPACED APPROXIMATELY 5' APART MAX. FASTEN STRAPS W/ (2) 5/16" x 4" GALV LAG BOLTS & SHIELDS.

CONNECT 4" CAST IRON PIPE TO EXIST 4" PVC BELOW GRADE W/ NEOPRENE SLEEVE W/ (2) ADJUSTABLE STEEL BANDS. VIF EXIST 4" PVC, EXTEND AS REQUIRED TO MEET 4" CAST IRON AT BLDG.

CONNECT ALUM DOWNSPOUT LEADER TO CAST IRON PIPE W/ DOWNSPOUT TO CAST IRON PIPE ADAPTER.

SHOP PRIME W/ OIL BASED PAINT & FINISH PAINT ALL FITTINGS & STRAPS PRIOR T INSTALLATION, INSALL A SECOND FINISH COAT OF OIL BASED PAINT AFTER INSTALLATION.

Key Plan



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EXTERIOR ELEVATIONS

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Scale: AS NOTED	Drawn / Checked: -

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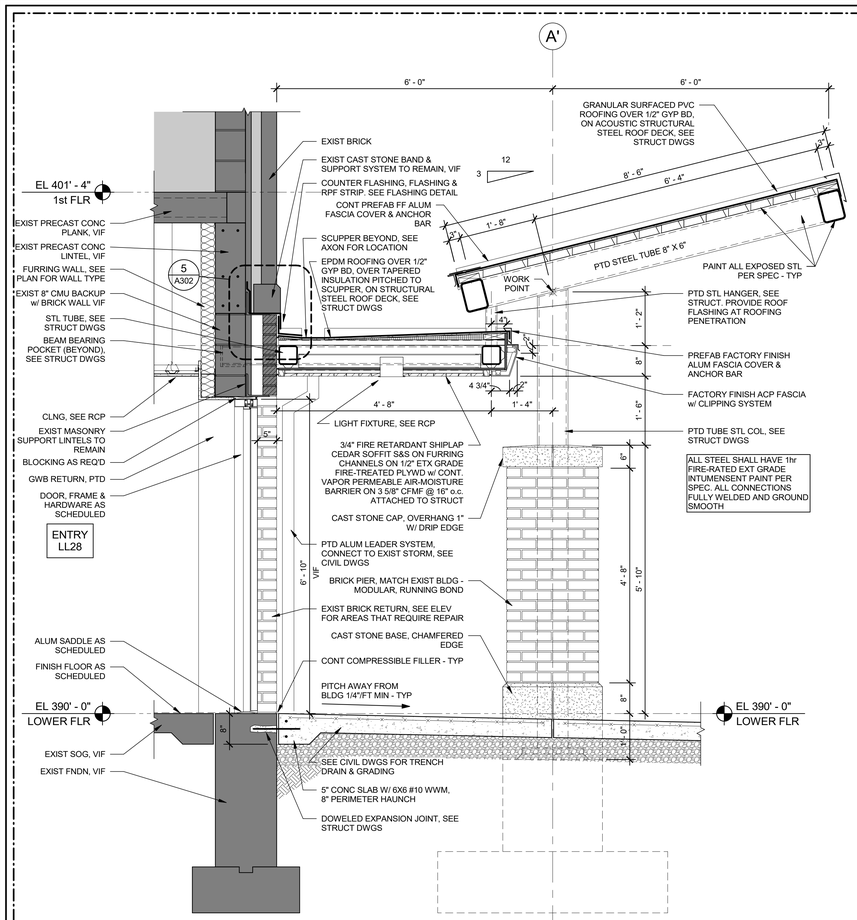
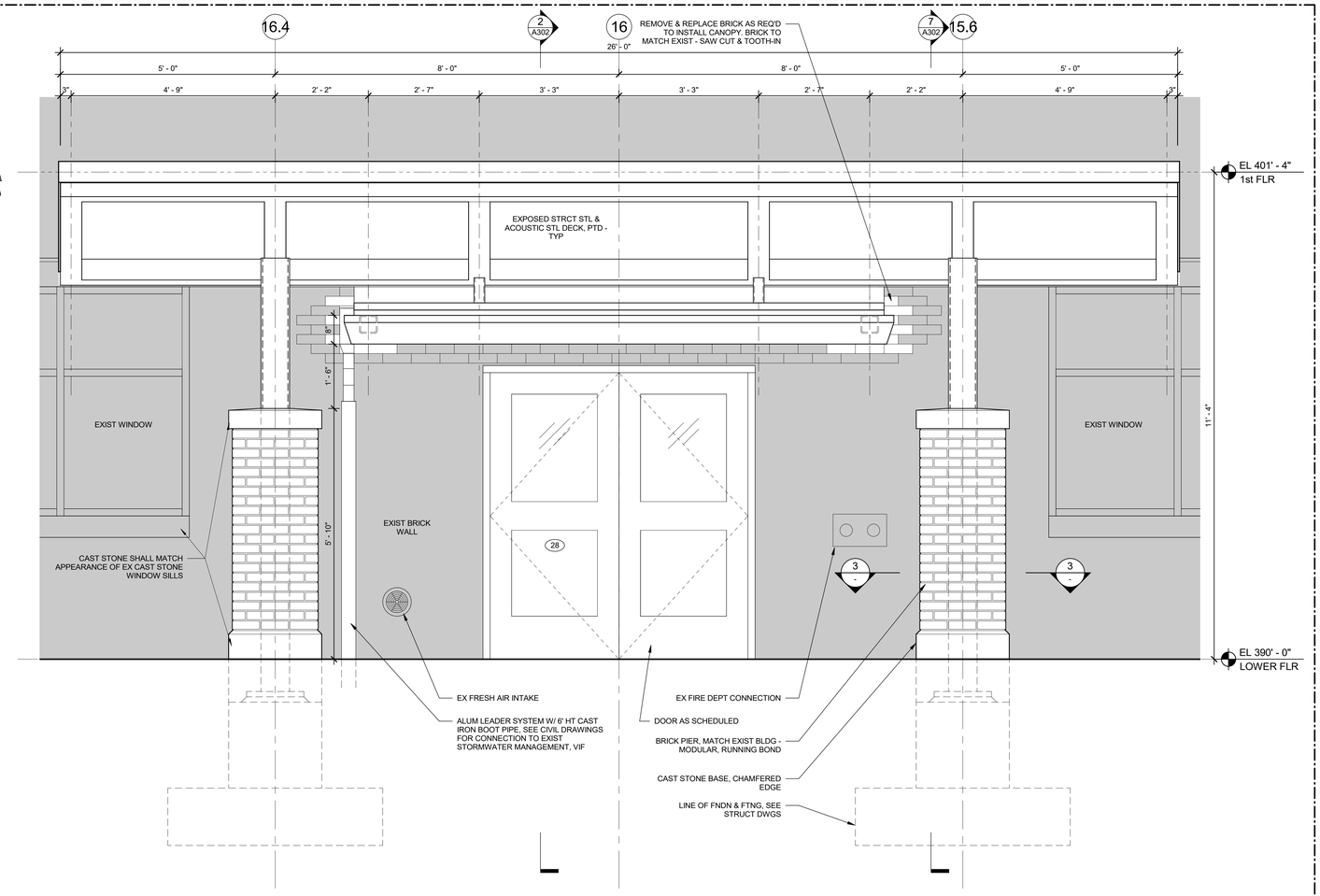
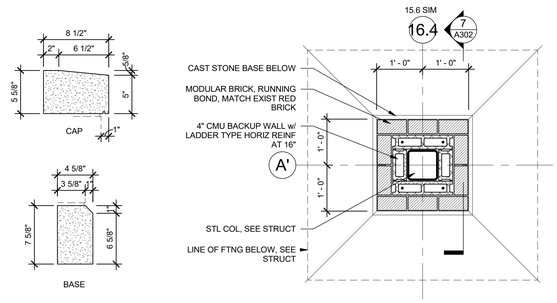
A301



2 CANOPY SECTION
3/4" = 1'-0"



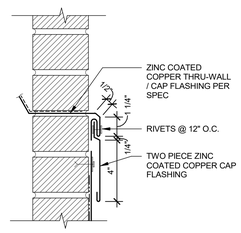
1 PARTIAL NORTH ELEVATION - CANOPY
3/4" = 1'-0"



4 CAST STONE PROFILES
1 1/2" = 1'-0"

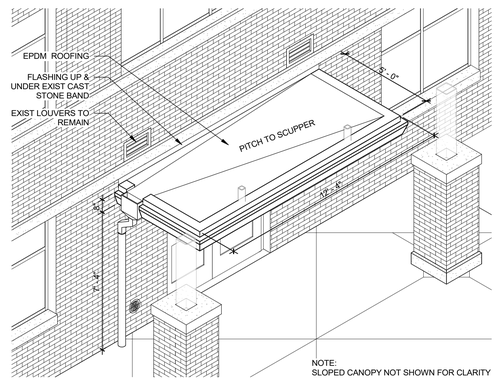
5 ROOF TO BRICK THRU-WALL FLASHING DETAIL - TYPICAL
1 1/2" = 1'-0"

7 CANOPY SECTION1
3/4" = 1'-0"



8 THRU-WALL FLASHING DETAIL
3" = 1'-0"

3 PLAN DETAIL
3/4" = 1'-0"



6 AXONOMETRIC CANOPY VIEW

ALTERNATE No. 3:
ALL WORK ASSOCIATED WITH ADDITION OF THE CANOPY & PIERS.

BASE BID:
NO CANOPY.
SITE WORK, SEE SITE PLAN.
DOOR 28 AS SCHEDULED.
INTERIOR WORK AS SCHEDULED.

BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

1 Echo Hill Drive - Building #36
Dobbs Ferry, NY 10522

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285 MAIN STREET • MOUNT KISCO, NEW YORK 10549
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NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2020	SED ISSUE

Sheet Title

EXTERIOR ELEVATIONS & SECTIONS

Job No.	Date
2019-1029	01/17/2020
Scale	Drawn / Checked
AS NOTED	-

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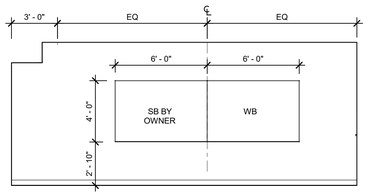
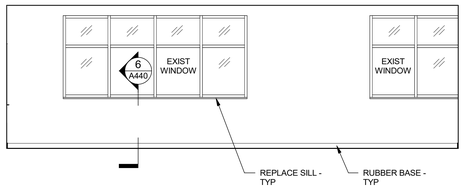
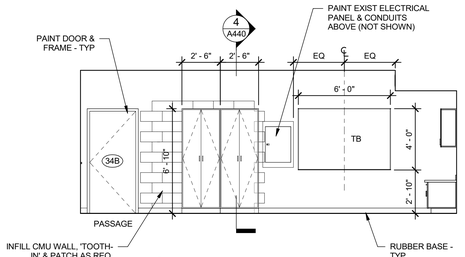


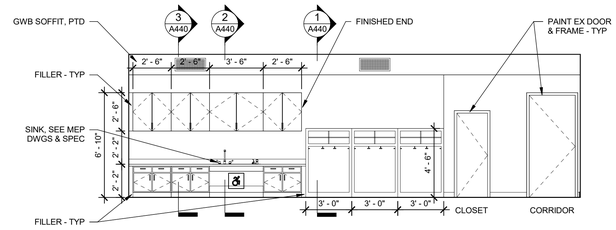
20 CLASSROOM LL31 - WEST
1/4" = 1'-0"



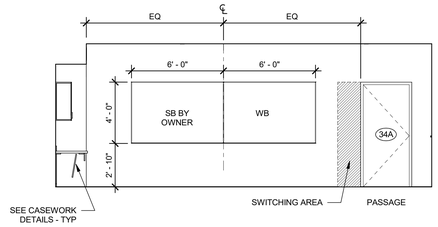
19 CLASSROOM LL31 - NORTH
1/4" = 1'-0"



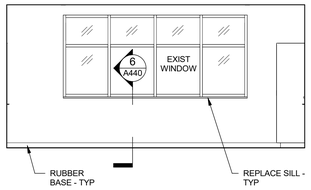
18 CLASSROOM LL31 - EAST
1/4" = 1'-0"



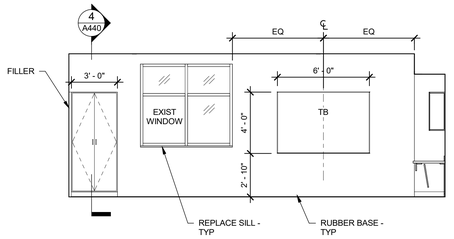
17 CLASSROOM LL31 - SOUTH
1/4" = 1'-0"



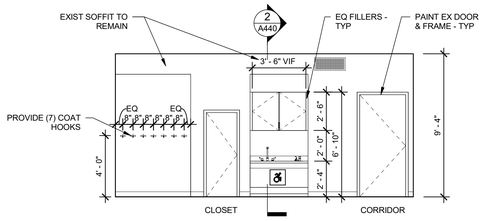
16 CLASSROOM LL34 - WEST
1/4" = 1'-0"



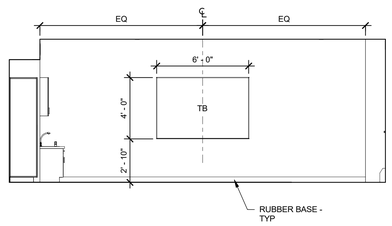
15 CLASSROOM LL34 - NORTH
1/4" = 1'-0"



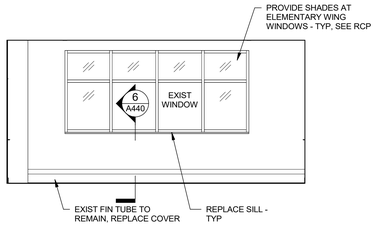
14 CLASSROOM LL34 - EAST
1/4" = 1'-0"



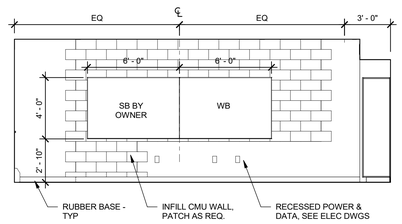
13 CLASSROOM LL34 - SOUTH
1/4" = 1'-0"



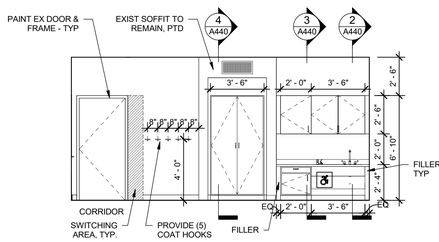
12 CLASSROOM LL22 - EAST
1/4" = 1'-0"



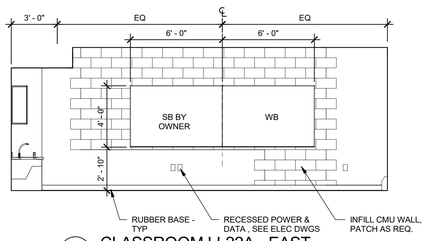
11 CLASSROOM LL22 - SOUTH
1/4" = 1'-0"



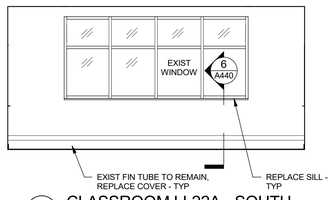
10 CLASSROOM LL22 - WEST
1/4" = 1'-0"



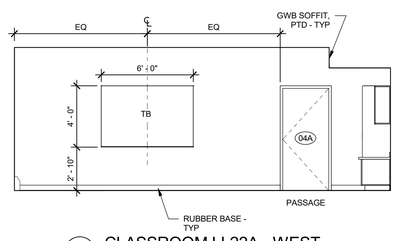
9 CLASSROOM LL22 - NORTH
1/4" = 1'-0"



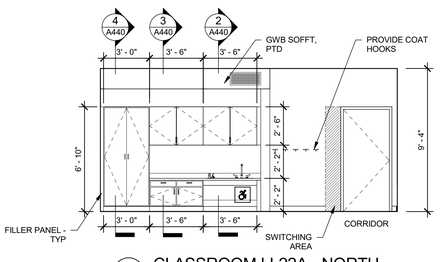
8 CLASSROOM LL22A - EAST
1/4" = 1'-0"



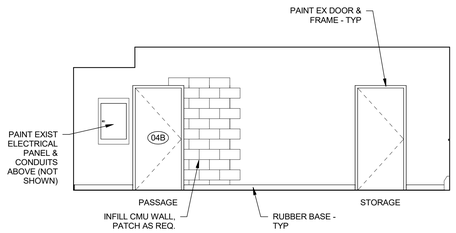
7 CLASSROOM LL22A - SOUTH
1/4" = 1'-0"



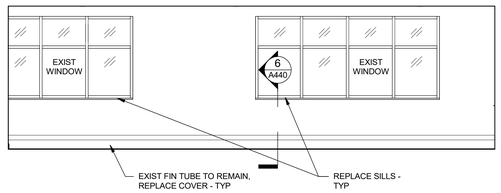
6 CLASSROOM LL22A - WEST
1/4" = 1'-0"



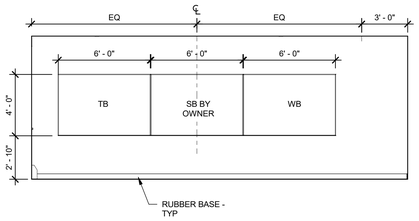
5 CLASSROOM LL22A - NORTH
1/4" = 1'-0"



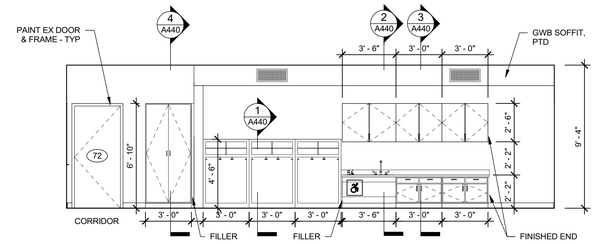
4 CLASSROOM LL06 - EAST
1/4" = 1'-0"



3 CLASSROOM LL06 - SOUTH
1/4" = 1'-0"



2 CLASSROOM LL06 - WEST
1/4" = 1'-0"



1 CLASSROOM LL06 - NORTH
1/4" = 1'-0"

BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

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KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

NOTES

1 CMU COURSING SHOWN IN ELEVATIONS IS APPROXIMATE. GC TO VERIFY CONDITIONS IN FIELD.

Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2020	SED ISSUE

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INTERIOR ELEVATIONS

Job No.	Date
2019-1029	01/17/2020
Scale	Drawn / Checked
AS NOTED	-

Sheet Number

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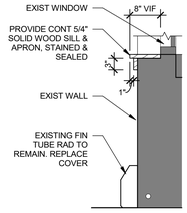
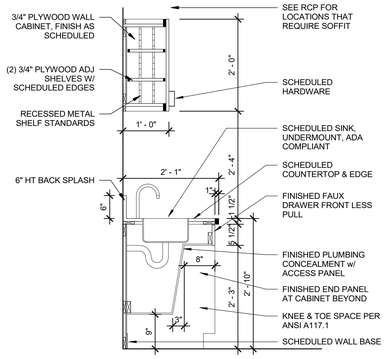
CASEWORK / MILLWORK NOTES

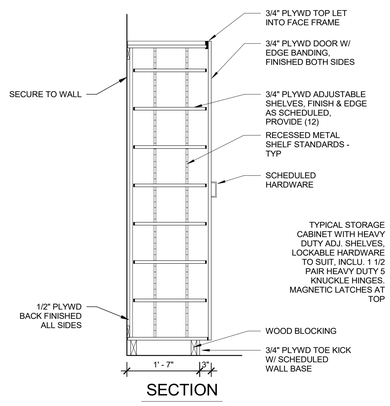
1 GC SHALL COORDINATE CASEWORK WITH OTHER TRADE CONTRACTORS. VERIFY EXISTING CONDITIONS & PROVIDE CASEWORK MODIFICATIONS TO ACCOMMODATE (PIPING, ELECTRIC, ETC). ARCHITECT TO APPROVE MODIFICATIONS



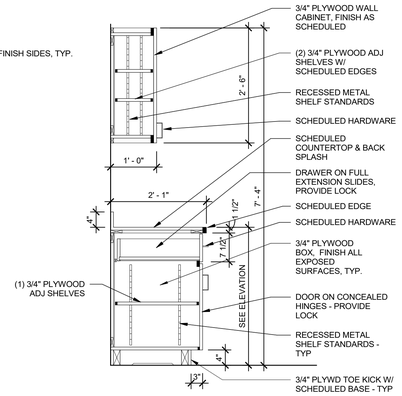
6 CLASSROOM SILL DETAIL
3/4" = 1'-0"



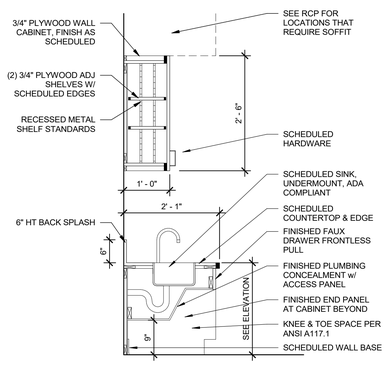
5 SECTION @ ADA SINK W/ WALL CABINET
3/4" = 1'-0"



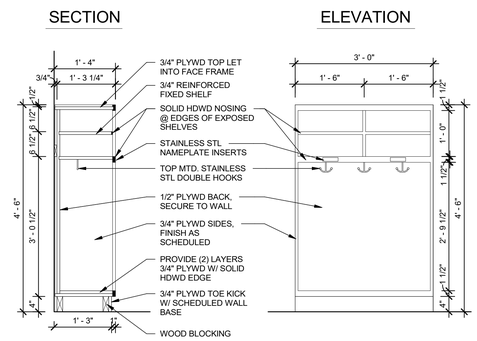
4 TYPICAL STORAGE CABINET
3/4" = 1'-0"



3 SECTION @ BASE CABINETS W/ DRAWER
3/4" = 1'-0"



2 SECTION @ KINDERGARTEN SINK
3/4" = 1'-0"



1 CUBBY DETAILS
3/4" = 1'-0"

BETHUNE LEARNING CENTER

Alterations

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CONSTRUCTION DOCUMENTS

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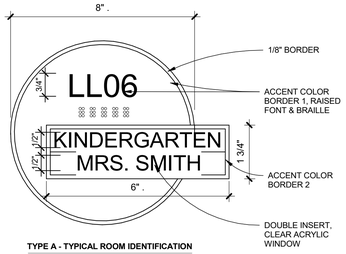
Sheet Title

TYPICAL CASEWORK/ MILLWORK DETAILS

Job No.	Date
2019-1029	01/17/2020
Scale: AS NOTED	Drawn / Checked: -

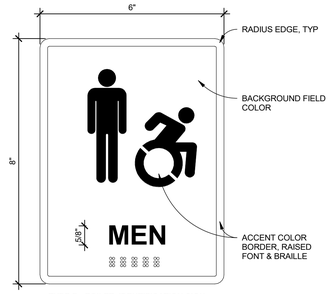
Sheet Number

A440



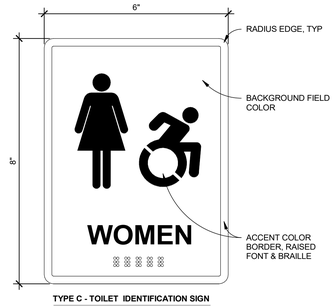
TYPE A - TYPICAL ROOM IDENTIFICATION

NOTE: ALL SIGNS TO BE MECHANICALLY FASTENED



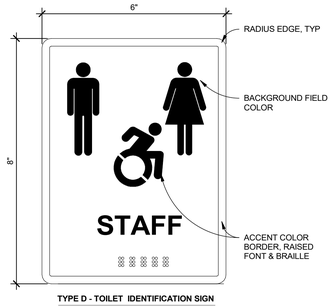
TYPE B - TOILET IDENTIFICATION SIGN

SIGNS LABELED 'SIM' DO NOT HAVE THE ADA SYMBOL



TYPE C - TOILET IDENTIFICATION SIGN

SIGNS LABELED 'SIM' DO NOT HAVE THE ADA SYMBOL



TYPE D - TOILET IDENTIFICATION SIGN

SIGNS LABELED 'SIM' DO NOT HAVE THE ADA SYMBOL

GENERAL NOTE:
SIGNAGE MOUNTING TO COMPLY WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN SECTION 703.4 U/NO - SEE ARCHITECT FOR FINAL LOCATIONS

ALL SIGNS TO BE MECHANICALLY FASTENED

Greenburgh Eleven Signage Schedule

ROOM NO	LOCATION	SIGN TYPE	SIGN TEXT	DESCRIPTION	QTY
Lower Level					
LL05	Toilet	D	TOILET	SEE TYPE D FOR DETAILS	1
LL06	Classroom	A	LL06 KINDERGARTEN	SEE TYPE A FOR DETAILS	1
LL13	Toilet	B	BOYS	SEE TYPE B FOR DETAILS	1
LL16	Toilet	B	MEN	SEE TYPE B FOR DETAILS	1
LL17	Toilet	C	WOMEN	SEE TYPE C FOR DETAILS	1
LL31	Classroom	A	LL31 KINDERGARTEN	SEE TYPE A FOR DETAILS	1
LL32	Toilet	D	TOILET	SEE TYPE D FOR DETAILS	1
LL51A	Toilet	D	TOILET	SEE TYPE D FOR DETAILS	1
LL54	Toilet	B	BOYS	SEE TYPE B FOR DETAILS	1
1st Floor					1
114	Toilet	B	BOYS	SEE TYPE B FOR DETAILS	1
118	Toilet	B	MEN	SEE TYPE B FOR DETAILS	1
119	Toilet	C	WOMEN	SEE TYPE C FOR DETAILS	1
139	Toilet	B	BOYS	SEE TYPE B FOR DETAILS	1
2nd Floor					1
217	Toilet	B	BOYS	SEE TYPE B FOR DETAILS	1
218	Toilet	C	WOMEN	SEE TYPE C FOR DETAILS	1
218A	Toilet	B	MEN	SEE TYPE B FOR DETAILS	1
233	Toilet	B	BOYS	SEE TYPE B FOR DETAILS	1

Greenburgh Eleven White board & Tack board schedule

ROOM #	LOCATION	TAG	QTY	SIZE
LL06	CLASSROOM	WB	1	6' - 0"W X 4' - 0"H
		TB	1	6' - 0"W X 4' - 0"H
LL22	CLASSROOM	WB	1	6' - 0"W X 4' - 0"H
		TB	1	6' - 0"W X 4' - 0"H
LL22A	CLASSROOM	WB	1	6' - 0"W X 4' - 0"H
		TB	1	6' - 0"W X 4' - 0"H
LL31	CLASSROOM	WB	1	6' - 0"W X 4' - 0"H
		TB	1	6' - 0"W X 4' - 0"H
LL34	CLASSROOM	WB	1	6' - 0"W X 4' - 0"H
		TB	1	6' - 0"W X 4' - 0"H

FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FIN	FLOOR BASE	NORTH WALL MAT	NORTH WALL FIN	EAST WALL MAT	EAST WALL FIN	SOUTH WALL MAT	SOUTH WALL FIN	WEST WALL MAT	WEST WALL FIN	CEILING MAT	CEILING FIN	HT	Comments
LOWER FLR															
LL03	CLASSRM/ DAY STUDENT	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL04	PASS	VT	RB	CMU/EXIST	PTD	EXIST	PTD	GWB	PTD	CMU/EXIST	PTD	ACT1	FF		
LL05	TOILET	PT1	CT4	GWB/CB	CT1, CT2, CT5	EXIST	CT1, CT2, CT5	GWB/CB	CT1, CT2, CT5	CMU/CB/EXIST	CT1, CT2, CT5	GWB	EPO		
LL06	K-6 ELEMENTARY CLASSROOM	LVT1, LVT2, LVT3, LVT4	RB	EXIST	PTD	CMU/EXIST	PTD	EXIST	PTD	EXIST	PTD	ACT1	FF		
LL06A	STOR.	LVT1	RB	GWB	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	OTS	-		
LL07	HOME ECON.	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL07A	STAFF PANTRY	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	ACT1	FF		
LL08	CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL09	STOR.	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL10	KILN	CONC	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL11	CRISIS	PAD	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST			
LL12	CRISIS	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL13	BOY'S	PT1	PT1	EXIST	CT6	EXIST	CT3,CT6	EXIST	CT6	GWB/CB/EXIST	CT3, CT6	GWB	EPO		
LL16	M	PT1	CT4	EXIST	CT6	EXIST	CT6	EXIST	CT6	EXIST	CT6, CT9	GWB	EPO		ALTERNATE NO.1
LL17	W	PT1	CT4	EXIST	CT6	EXIST	CT6, CT7	EXIST	CT6	EXIST	CT6	GWB	EPO		ALTERNATE NO.1
LL17A	JC	PT1	PT1	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL18	STOR.	LVT5	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL19	COMPUTER	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL19A	OFFICE	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL20	COMPUTER	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL20B	OFFICE	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL21	OFFICE	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL22	CLASSROOM/ SPEECH	VT	RB	GWB/EXIST	PTD	EXIST	PTD	EXIST	PTD	CMU/EXIST	PTD	ACT1	FF		
LL22A	K-6 ELEMENTARY CLASSROOM	VT	RB	EXIST	PTD	CMU/EXIST	PTD	EXIST	PTD	EXIST	PTD	ACT1	FF		
LL23	STOR.	LVT6	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL24	STOR.	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL25	ART	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL26	SEC.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL27	PRINCIP.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL28	ENTRY	WOM	RB	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT1	FF		
LL29	JC	PT1	PT1	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL31	K-6 ELEMENTARY CLASSROOM	LVT1, LVT2, LVT3, LVT4	RB	EXIST	PTD	CMU/EXIST	PTD	EXIST	PTD	EXIST	PTD	ACT1	FF		
LL31A	STORAGE	LVT5	RB	GWB	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	OTS	-		
LL32	TOILET	PT1	CT4	GWB/CB	CT1, CT2, CT5	EXIST	CT1, CT2, CT5	GWB/CB	CT1, CT2, CT5	GWB/CB	CT1, CT2, CT5	GWB	EPO		
LL34	K-6 ELEMENTARY CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	ACT1	FF		
LL34A	PASS	VT	RB	EXIST	PTD	EXIST	PTD	GWB	PTD	CMU/EXIST	PTD	ACT1	FF		
LL51	STORAGE	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL51A	T	PT1	CT4	EXIST	CT1, CT2, CT5	EXIST	CT1, CT2, CT5	EXIST	CT1, CT2, CT5	EXIST	CT1, CT2, CT5	GWB	EPO		ALTERNATE NO.1
LL52	CONF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL54	BOY'S	PT1	PT1	EXIST	CT6	EXIST	CCT3, T6	EXIST	CT3,CT6	EXIST	CT6	GWB	EPO		
LL57	PRAC.	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL58	MUSIC	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL59	CLASSRM/ O.T.	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL60	OFF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL61	ST	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL62	STOR.	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL63	CLASSRM/ DAY STUDENT	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LL66	PRAC.	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
LLC1	CORRIDOR	LVT5, LVT6, LVT8	RB	EXIST	PTD	EXIST	PTD	CMU/EXIST	PTD	EXIST	PTD	EXIST/ACT2	PTD/FF		
LLC2	CORRIDOR	LVT5	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	ACT2	FF		
1st FLR															
101	MS/HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
102	MS/HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
103	BUSINESS OFFICE	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
104	CRISIS	PAD	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST			
105	OFF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
106	SECRETARY	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
107	OFFICE	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
108	OFF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
109	CRISIS	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
110	MS/ HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
111	MS/HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
112	MS/HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
114	BOY'S	PT1	PT1	EXIST	CT6	EXIST	CT3,CT6	EXIST	CT6	CT3, CT6	CT6	GWB	EPO		
118	M	PT1	CT4	EXIST	CT6	EXIST	CT6	EXIST	CT6	EXIST	CT6, CT9	GWB	EPO		
119	W	PT1	CT4	EXIST	CT6	EXIST	CT6, CT7	EXIST	CT6	EXIST	CT6	GWB	EPO		
122	MULTI-PURPOSE ROOM	LVT 7	RB	EXIST	PTD	EXIST	PTD/CT8	EXIST	PTD	EXIST	PTD	EXIST/ACT1	PTD/FF		
127	LIBRARY	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	GWB	PTD		
128A	WORK ROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
129	OFFICE	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
130	HR OFFICE/ ADMIN. SPACE	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
131	SUPER- INTENDENT'S OFFICE	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
132	MS/HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
134	CORR.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
135	OFF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
136	OFF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
137	OFF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
139	BOY'S	PT1	PT1	EXIST	CT6	EXIST	CT3,CT6	EXIST	CT6	CT3, CT6	CT6	GWB	EPO		
140	MS/HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
141	MS/HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
142	MS/HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
143	CORRIDOR	LVT5, LVT6, LVT8	-	EXIST	EXIST/PTD	EXIST	EXIST/PTD	EXIST	EXIST/PTD	EXIST	EXIST/PTD	EXIST/ACT2	PTD/FF		CLEAN GLAZED BLOCK MORTAR, SEE SPEC
144	LOBBY	PT2	-	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST/GWB/PATCH	PTD		CLEAN GLAZED BLOCK MORTAR, SEE SPEC
145	VEST	WOM	-	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST/PATCH	PTD		
2nd FLR															
201	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
202	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
203	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
204	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
205	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
206	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
207	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
208	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
209	CRISIS	PAD	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST	EXIST			
210	CRISIS	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
212	SEC.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
213	OFF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
214	OFF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
215	OFF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
216	OFF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
217	BOY'S	PT1	PT1	EXIST	CT6	EXIST	CT3,CT6	EXIST	CT6	EXIST	CT3, CT6	GWB	EPO		
218	W	PT1	CT4	EXIST	CT7	EXIST	CT7	EXIST	CT7	EXIST	CT7	GWB	EPO		ALTERNATE NO.1
218A	M	PT1	CT4	EXIST	CT9	EXIST	CT9	EXIST	CT9	EXIST	CT9	GWB	EPO		ALTERNATE NO.1
220	CONF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
221	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
222	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
223	OFFICE	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
224	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
225	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
226	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
228	CORR.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
229	OFF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
230	OFF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
231	OFF.	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
233	BOYS	PT1	PT1	EXIST	CT6	EXIST	CT3,CT6	EXIST	CT6	GWB/CB/EXIST	CT3, CT6	GWB	EPO		
234	MS/HS OFFICE	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
235	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
236	HS CLASSROOM	VT	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST			
237	CORRIDOR	LVT5,LVT6	-	EXIST	EXIST/PTD	EXIST	EXIST/PTD	EXIST	EXIST/PTD	EXIST	EXIST/PTD	EXIST/ACT2	PTD/FF		CLEAN GLAZED BLOCK MORTAR, SEE SPEC

ABBREVIATIONS:

ACT - ACOUSTIC CEILING TILE, CMU - CONCRETE MASONRY UNIT, CPT - CARPET TILE, CT- CERAMIC TILE, EPO - EPOXY PAINT, EXIST - EXISTING, FF - FACTORY FINISH, GWB - GYPSUM WALL BOARD, LVT - LUXURY VINYL TILE, OTS - OPEN TO STRUCTURE, PT- PORCELAIN TILE, PTD - PAINTED, QT - QUARRY TILE, RB - RUBBER BASE, VT - VINYL TILE, WOM - WALK OFF MAT

BETHUNE LEARNING CENTER

Alterations

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NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

NOTE:
PROVIDE BLOCK FILLER & ACCENT PAINT COLOR AT ENTIRE CMU CLASSROOM WALL AT LOCATIONS INDICATED ON SHEET A201. SEE SPEC FOR BLOCK FILLER.

Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2020	SED ISSUE

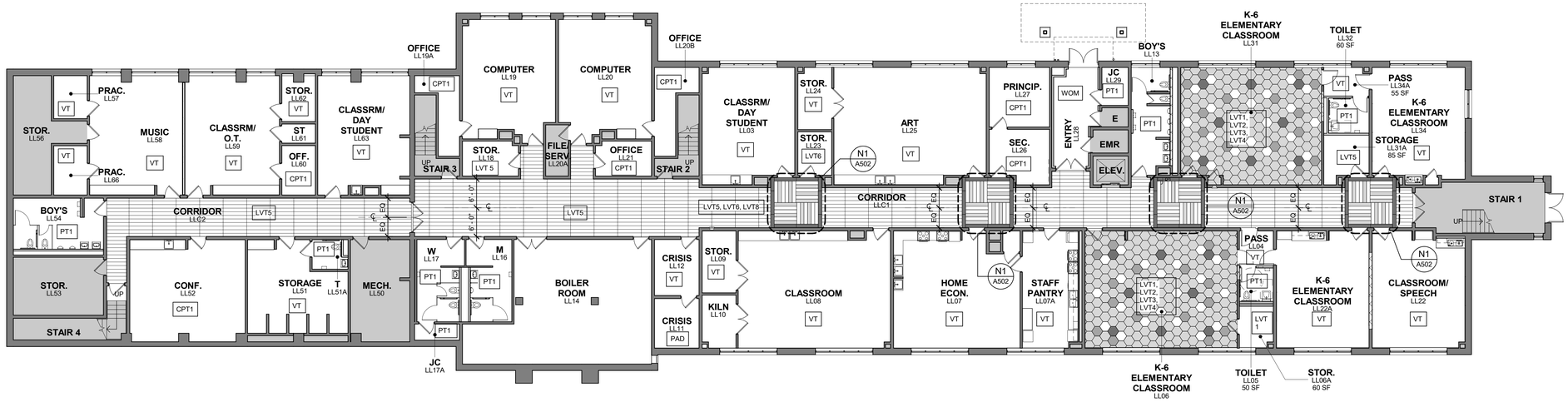
Sheet Title

FINISH SCHEDULE & SIGNAGE

Job No.	Date
2019-1029	01/17/2020
Scale: AS NOTED	Drawn / Checked: -

Sheet Number

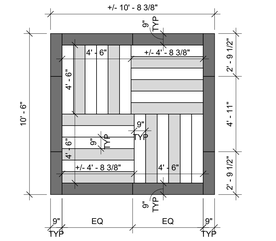
A501



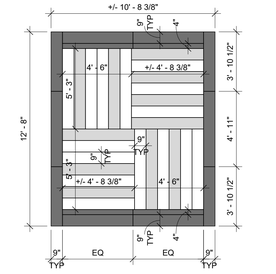
L LOWER FLOOR FLOORING PLAN
3/32" = 1'-0"

FLOORING NOTES
(ALSO SEE FINISH SCHEDULE)

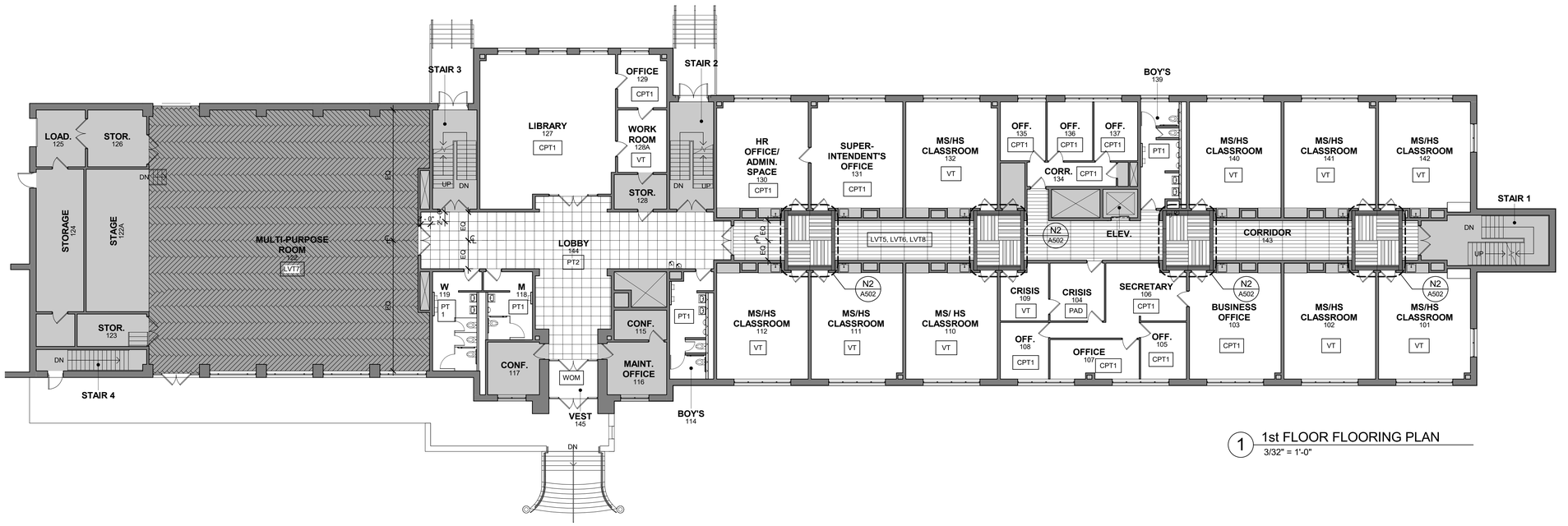
KEY	DESCRIPTION
	LVT1
	LVT2
	LVT3
	LVT4
	LVT5
	LVT6
	LVT7
	LVT8
	PT2



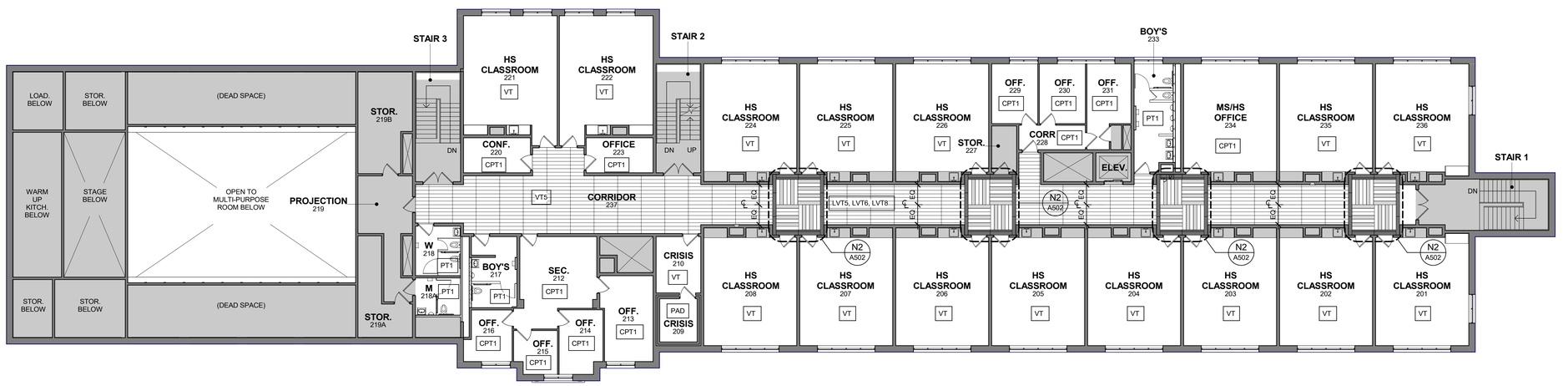
N1 LOWER FLOOR NODE LAYOUT



N2 UPPER FLOORS NODE LAYOUT



1 1st FLOOR FLOORING PLAN
3/32" = 1'-0"



2 2nd FLOOR FLOORING PLAN
3/32" = 1'-0"

BETHUNE LEARNING CENTER

Alterations

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CONSTRUCTION DOCUMENTS

Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2020	SED ISSUE

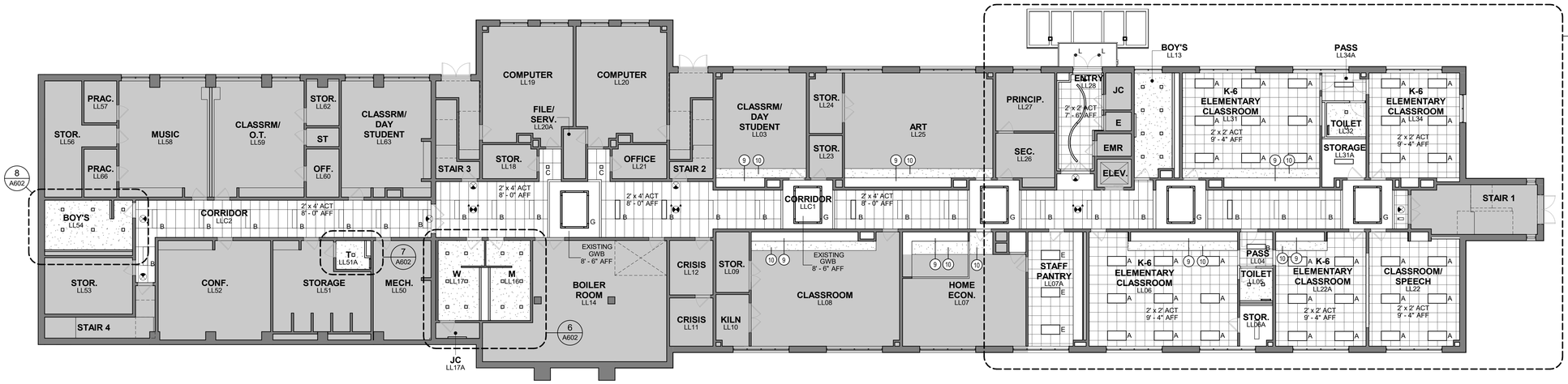
Sheet Title

FLOOR FINISH PLANS

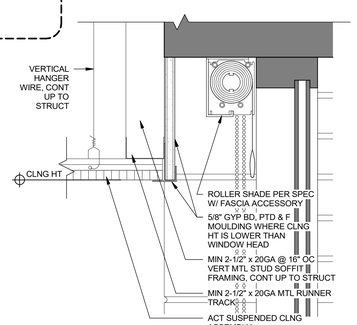
Job No.	Date
2019-1029	01/17/2020
Scale	Drawn / Checked
AS NOTED	-

Sheet Number

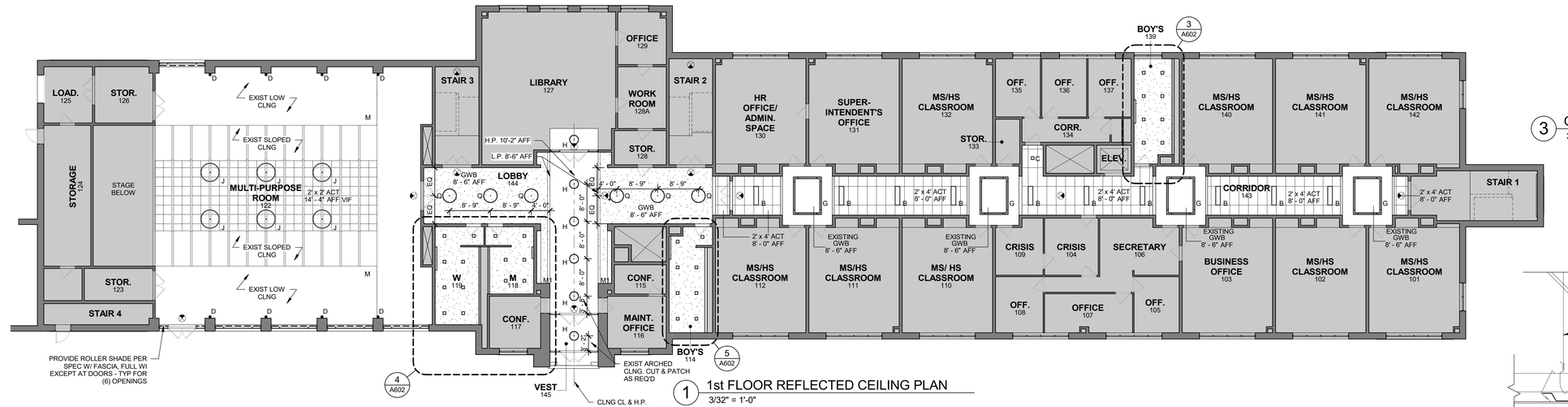
A502



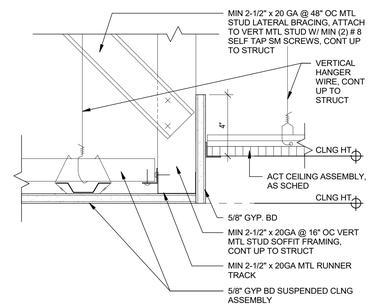
L LOWER LEVEL REFLECTED CEILING PLAN
3/32" = 1'-0"



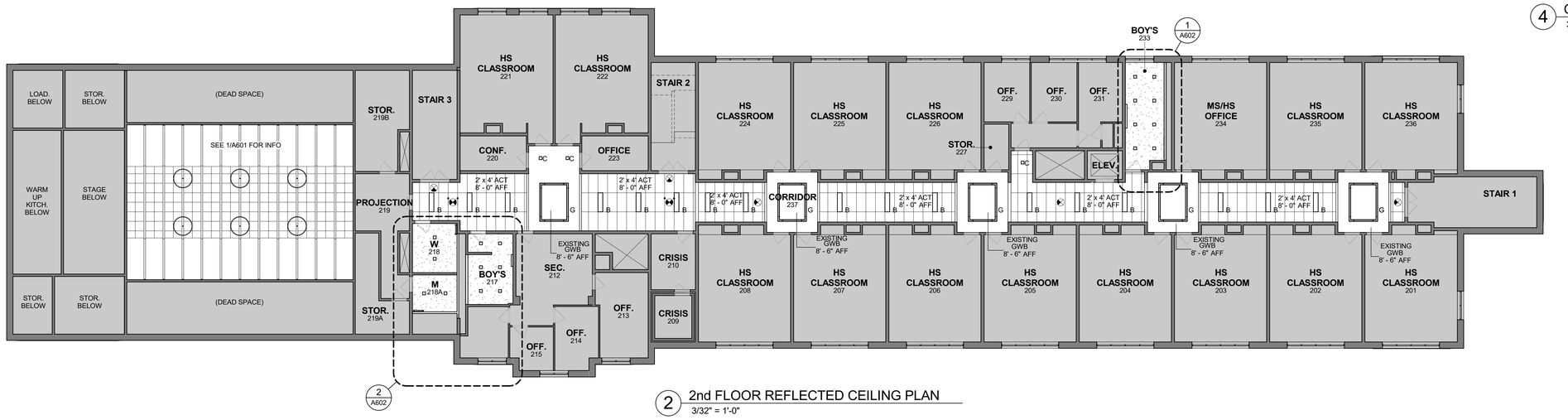
3 CEILING DETAIL AT EXIST WINDOWS
3" = 1'-0"



1 1st FLOOR REFLECTED CEILING PLAN
3/32" = 1'-0"



4 CEILING DETAIL AT GYP-ACT
3" = 1'-0"



2 2nd FLOOR REFLECTED CEILING PLAN
3/32" = 1'-0"

LIGHTING SYMBOL LEGEND
(SEE ELEC DWGS FOR LIGHT FIXTURE SCHEDULE)

KEY		DESCRIPTION
	A	RECESSED 2X4 LED TROFFER
	B	RECESSED 1X4 LED
	C	6" SQUARE RECESSED DOWNLIGHT
	D	WALL MOUNTED LED WALL SCONCE
	E	RECESSED 2X4 TROFFER (KITCHEN)
	F	SURFACE MOUNTED CURVED LED DOWNLIGHT
	G	SURFACE MOUNTED LINEAR LED DOWNLIGHT (PATCH EXIST GYP CLNG)
	H	LED PENDANT
	J	LED PENDANT
	K	1X4 CHAIN HUNG LED
	L	EXTERIOR RECESSED LED DOWNLIGHT
	P	LED SCONCE, CENTER ABOVE SINK
	Q	LED RECESSED

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66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

CEILING NOTES

1 DENOTES AREA OF NO ARCHITECTURAL WORK, UNLESS NOTED ELSEWHERE IN THE DOCUMENTS - SEE M.E.P. DWGS.
2 CEILINGS GRIDS ARE TO BE CENTERED IN ROOM U.N.O. ALL CEILING FIXTURES, INCLUDING EXIT SIGNS, HVAC REGISTERS, ARE TO BE CENTERED IN CEILING TILES.
3 SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE
4 FINISH SCHEDULE SEE A501
5 CEILING HEIGHTS SHOWN IN PLANS, SECTIONS, & DETAILS SHALL TAKE PRECEDENCE OVER HEIGHTS INDICATED ON SCHEDULES
6 ALL ACCESS PANELS SHALL BE LOCKABLE
7 SEE ELECTRICAL DRAWINGS FOR LOCATIONS & TYPES OF EMERGENCY FIXTURES
8 ALL CEILING TYPES IN TOILET ROOMS SHALL COMPLY WITH NY SED MPS S202

CEILING LEGEND

1 GYP BOARD CEILING / SOFFIT
2 2x2 ACT CEILING SYSTEM, SEE SPEC
3 2x4 ACT CEILING SYSTEM, SEE SPEC
4 SUPPLY, SEE MECH DWGS
5 RETURN, SEE MECH DWGS
6 SURVEILLANCE CAMERA, BY OWNER, NIC
7 SPRINKLER HEAD, SEE SP DWGS
8 EXIT LIGHT, SEE ELEC DWGS
9 CEILING MOUNTED SENSOR, SEE ELEC DWGS
10 CEILING MOUNTED SMOKE DETECTOR, SEE ELEC DWGS
11 CEILING MOUNTED SPEAKER, SEE ELEC DWGS

Key Plan

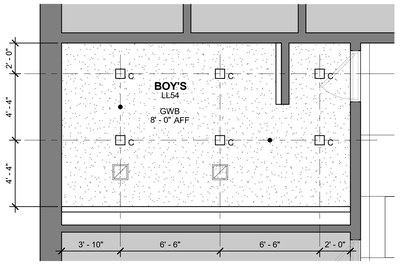
Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2020	SED ISSUE

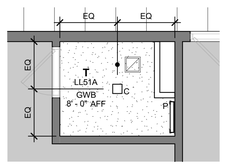
Sheet Title
OVERALL REFLECTED CEILING PLANS

Job No.	Date
2019-1029	01/17/2020
Scale: AS NOTED	Drawn / Checked: -

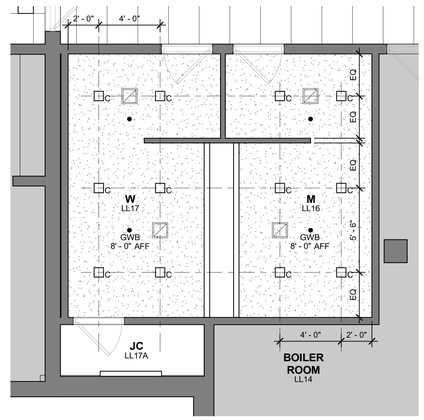
Sheet Number
A601



8 TOILET ROOM LL54
1/4" = 1'-0"

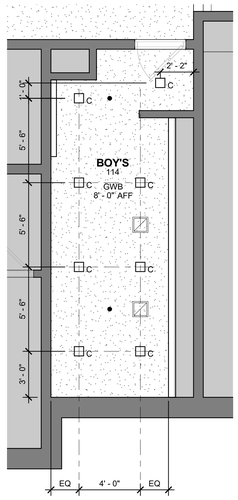


7 TOILET ROOM LL51A
1/4" = 1'-0"

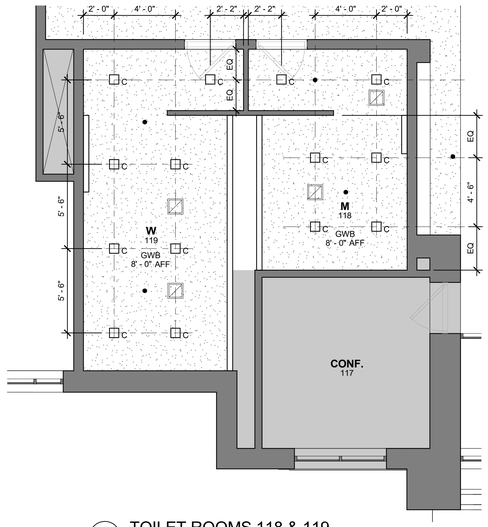


6 TOILET ROOMS LL16 & LL17
1/4" = 1'-0"

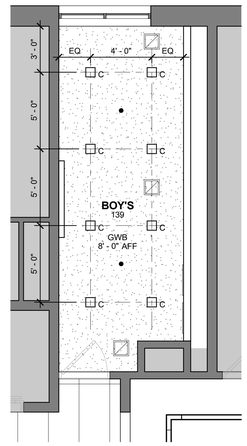
ALTERNATE No. 1
ALL WORK ASSOCIATED WITH RENOVATION OF TOILET ROOMS LL16, LL17, LL51A, 218, & 218A.
BASE BID: NO WORK



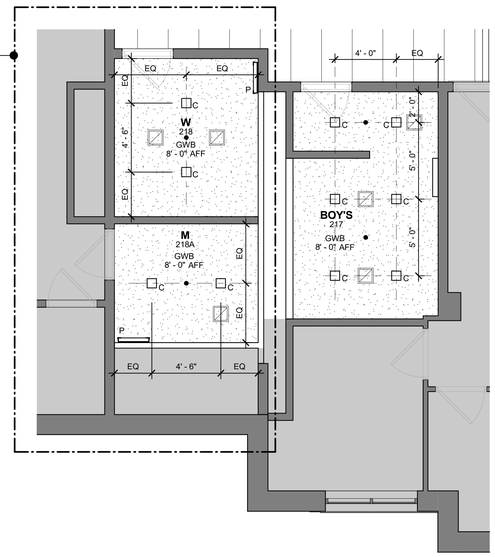
5 TOILET ROOM 114
1/4" = 1'-0"



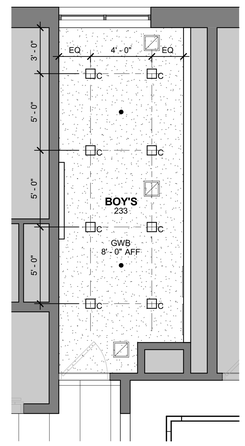
4 TOILET ROOMS 118 & 119
1/4" = 1'-0"



3 TOILET ROOM 139
1/4" = 1'-0"



2 TOILET ROOMS 217, 218 & 218A
1/4" = 1'-0"



1 TOILET ROOM 233
1/4" = 1'-0"

LIGHTING SYMBOL LEGEND
(SEE ELEC DWGS FOR LIGHT FIXTURE SCHEDULE)

KEY		DESCRIPTION
	A	RECESSED 2X4 LED TROFFER
	B	RECESSED 1X4 LED
	C	6" SQUARE RECESSED DOWNLIGHT
	D	WALL MOUNTED LED WALL SCONCE
	E	RECESSED 2X4 TROFFER (KITCHEN)
	F	SURFACE MOUNTED CURVED LED DOWNLIGHT
	G	SURFACE MOUNTED LINEAR LED DOWNLIGHT (PATCH EXIST GYP CLNG)
	H	LED PENDANT
	J	LED PENDANT
	K	1X4 CHAIN HUNG LED
	L	EXTERIOR RECESSED LED DOWNLIGHT
	P	LED SCONCE, CENTER ABOVE SINK
	Q	LED RECESSED

BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

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CONSTRUCTION DOCUMENTS

CEILING NOTES

1. DENOTES AREA OF NO ARCHITECTURAL WORK, UNLESS NOTED ELSEWHERE IN THE DOCUMENTS - SEE M.E.P. DWGS.
2. CEILINGS GRIDS ARE TO BE CENTERED IN ROOM U.N.O. ALL CEILING FIXTURES, INCLUDING EXIT SIGNS, HVAC REGISTERS, ARE TO BE CENTERED IN CEILING TILES.
3. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE
4. FINISH SCHEDULE SEE A501
5. CEILING HEIGHTS SHOWN IN PLANS, SECTIONS, & DETAILS SHALL TAKE PRECEDENCE OVER HEIGHTS INDICATED ON SCHEDULES
6. ALL ACCESS PANELS SHALL BE LOCKABLE
7. SEE ELECTRICAL DRAWINGS FOR LOCATIONS & TYPES OF EMERGENCY FIXTURES
8. ALL CEILING TYPES IN TOILET ROOMS SHALL COMPLY WITH NY SED MPS S202

CEILING LEGEND

1. GYP BOARD CEILING / SOFFIT
2. 2x2 ACT CEILING SYSTEM, SEE SPEC
3. 2x4 ACT CEILING SYSTEM, SEE SPEC
4. SUPPLY, SEE MECH DWGS
5. RETURN, SEE MECH DWGS
6. SURVEILLANCE CAMERA, BY OWNER, NIC
7. SPRINKLER HEAD, SEE SP DWGS
8. EXIT LIGHT, SEE ELEC DWGS
9. CEILING MOUNTED SENSOR, SEE ELEC DWGS
10. CEILING MOUNTED SMOKE DETECTOR, SEE ELEC DWGS
11. CEILING MOUNTED SPEAKER, SEE ELEC DWGS

Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2020	SED ISSUE

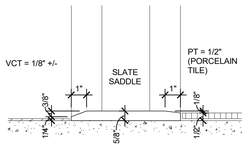
Sheet Title

TOILET ROOM REFLECTED CEILING PLANS

Job No.	Date
2019-1029	01/17/2020
Scale	Drawn / Checked
AS NOTED	-

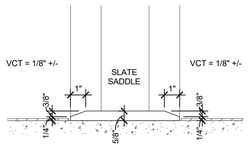
Sheet Number

A602



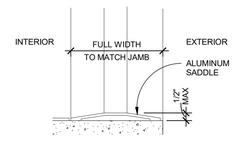
4C SADDLE DETAIL

SCALE 3"= 1'-0"



4B SADDLE DETAIL

SCALE 3"= 1'-0"



4A TYP EXTERIOR SADDLE

SCALE 3"= 1'-0"

SADDLE NOTES:

1. COORDINATE DOOR UNDERCUT WITH SADDLE & OTHER UNDERCUTTING REQ. SEE DOOR SCHEDULE & SADDLE DETAILS ON THIS SHEET.

2. SADDLES ARE TO BE FULL WIDTH OF DOOR FRAME.

3. SADDLES MAY BE OMITTED WHERE MATERIALS OF SIMILAR THICKNESS MEET WITH THE WRITTEN APPROVAL OF THE ARCHITECT. DOOR UNDERCUTS MUST BE COORDINATED.

4. AT GYM DOORS, INTERIOR & EXTERIOR, PROVIDE AN EXTENDED ALUMINUM SADDLE TO COVER THE EXPANSION JT AT WOOD FLOORING. SADDLE TO HAVE BEVELED EDGES & NON-SKID SURFACE. COORDINATE WITH WOOD FLOORING INSTALLATION FOR EXTENT.

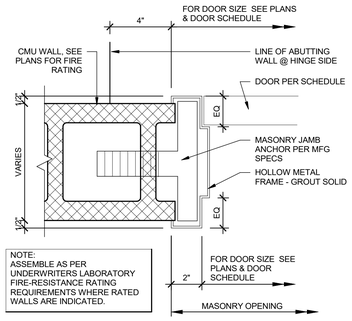
5. SLATE SADDLES, WHEN USED OR CALLED FOR SHALL BE SELECTED FROM FULL COLOR RANGE TO MATCH ADJACENT FLOORING.

DOOR SCHEDULE

Mark	Room	#	WI	HT	Elev	Door Mat	Door Fin	Frame Mat	Frame Fin	Fire Label	Saddle	HDWE SET	Comments
LOWER FLR													
04	PASS	1	3' - 4"	6' - 8"	FLNG	HM	PTD	HM	PTD	S	4b	CL	NEW DOOR IN EXIST MO, VIF
04A	PASS	1	3' - 0"	6' - 8"	FLNG	HM	PTD	HM	PTD		4b	CL	
04B	PASS	1	3' - 0"	6' - 8"	FLNG	HM	PTD	HM	PTD		4b	CL	NEW DOOR IN EXIST MO, VIF
05	TOILET	1	3' - 0"	6' - 8"	F	HM	PTD	HM	PTD		4c	TS	
28	ENTRY	2	6' - 0"	6' - 8"	WS1	FRP	FF	AL	FF		4a	EF	NEW DOOR IN EXIST MO. EXTERIOR DOOR, VIF
32	TOILET	1	3' - 0"	6' - 8"	F	HM	PTD	HM	PTD		4c	TS	
34A	PASS	1	3' - 0"	6' - 8"	FLNG	HM	PTD	HM	PTD		4b	CL	
34B	PASS	1	3' - 0"	6' - 8"	FLNG	HM	PTD	HM	PTD		4b	CL	NEW DOOR IN EXIST MO, VIF
S1	STAIR 1	2	3' - 0"	6' - 8"	FLNG	HM	PTD	HM	PTD		4a	EF	NEW DOOR IN EXIST MO. EXTERIOR DOOR, VIF
1st FLR													
124	STORAGE	1	3' - 0"	6' - 8"	F	FRP	FF	AL	FF		4a	EF	NEW DOOR IN EXIST MO. EXTERIOR DOOR, VIF
125	LOAD.	-	6' - 0"	6' - 8"	OVHD	HM	PTD	HM	PTD		-	-	OVERHEAD DOOR IN EXIST MO, VIF. ALSO REPLACE EXIST PTD HM FRAME AT OPENING
S2	STAIR 2	2	3' - 0"	6' - 8"	FLNG	FRP	FF	AL	FF		4a	EF	NEW DOOR IN EXIST MO. EXTERIOR DOOR, VIF
S3	STAIR 3	2	3' - 0"	6' - 8"	FLNG	FRP	FF	AL	FF		4a	EF	NEW DOOR IN EXIST MO. EXTERIOR DOOR, VIF
S4	STAIR 4	1	3' - 0"	6' - 8"	FLNG	HM	PTD	HM	PTD		4a	EF	NEW DOOR IN EXIST MO. EXTERIOR DOOR, VIF

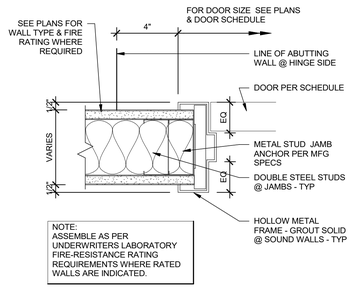
DOOR FINISH SCHEDULE ABBREV.

AL	ALUMINUM	F	FLUSH FLOOR	HM	HOLLOW METAL	SE	SECURE (STORAGE/JANITOR/MECH./ETC.)	TM	TOLIET, MULTIUSER
CL	CLASSROOM	FF	FACTORY FINISH	MBL	MARBLE	SS	STAINLESS STEEL	TS	TOLIET, SINGLE USER
CS	CORRIDOR, SMOKE, & FIRE DOORS (RATED)	FG1	FLUSH DOOR GLASS	OF	OUTSIDE FACE	ST	STAIN & SEAL	WD	WOOD
EA	EXTERIOR, ALUMINUM	FLNG	FLUSH LONG NARROW GLASS	PTD	PAINTED	SW	STAIRWAY DOOR	WSI	WIDE STILE
EF	EXTERIOR, FRP	FNG	FLUSH NARROW GLASS	SA	SECURE ACCESS				



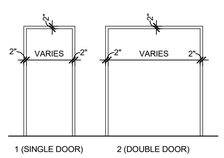
B DOOR JAMB AT CMU WALL

SCALE 3"= 1'-0"



A DOOR JAMB AT GYP BD WALL

SCALE 3"= 1'-0"



2 FRAME TYPES

1/4" = 1'-0"

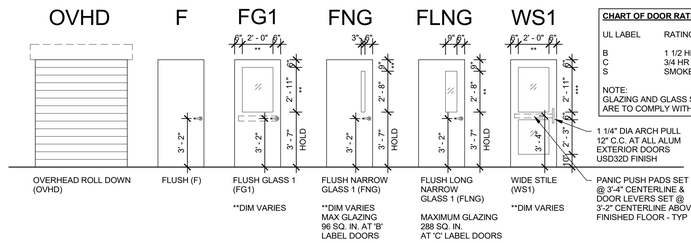


CHART OF DOOR RATINGS & UL LABEL

UL LABEL	RATING	RATING	MAX GLASS AREA
B	1 1/2 HR	90 MIN	100 SQ IN PER LEAF
C	3/4 HR	45 MIN	1296 SQ IN PER LEAF
S	SMOKE	SMOKE	

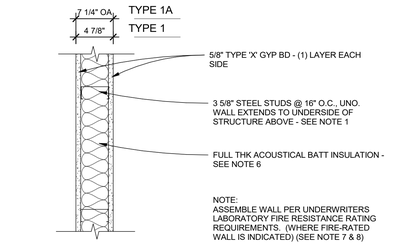
NOTE:
GLAZING AND GLASS SIZES FOR INTERIOR DOORS AND WINDOWS ARE TO COMPLY WITH NFPA 80 OR ASTM E119 - TYP.

1 DOOR TYPES

1/4" = 1'-0"

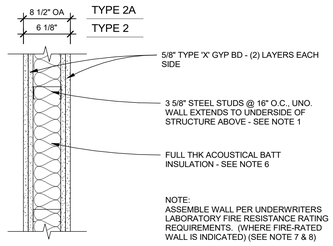
GENERAL NOTES

1. GLAZING IN FIRE RATED DOORS SHALL BE FIRELITE PLUS TO MEET THE FIRE RATING SCHEDULED, UNLESS NOTED OTHERWISE.
2. G.C. SHALL VERIFY SIZE OF REPLACEMENT DOORS & FRAMES IN THE EXISTING BUILDING BEFORE ORDERING.
3. SEE SPEC. SECTION 08 71 00 FOR DOOR HARDWARE SETS, HARDWARE NOTES, COMPONENTS & OTHER INFORMATION.
4. EXTERIOR DOOR PAIRS SHALL HAVE AN ALUMINUM KEYED REMOVABLE MULLION WITH RIM CYLINDER EXIT DEVICE w/KEYED CYLINDER DOGGING.
5. INTERIOR DOOR PAIRS SHALL HAVE AN HOLLOW METAL KEYED REMOVABLE MULLION WITH RIM CYLINDER EXIT DEVICE w/KEYED CYLINDER DOGGING. EXCEPTION IS CROSS-CORRIDOR DOOR PAIRS & DOORS INTO STAIRS.
6. FRP DOORS SHALL HAVE SUITABLE BLOCKING FOR LEVER OR ARHITECTURAL PULLS. RECESSED DOOR PULL NOT ACCEPTABLE.
7. FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME IS 4" (TYPICAL) U.N.O. SEE DETAILS A & B ON A901.



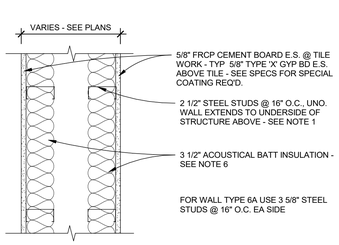
1 1A 1B 1 hr FIRE RESISTIVE - UL #U465

(FOR TYPE 1A - USE 6" STEEL STUDS)
(FOR TYPE 1B - USE 8" STEEL STUDS)



2 2A 2 hr FIRE RESISTIVE - UL #U411

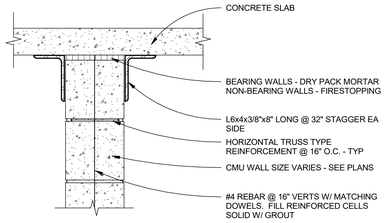
(FOR TYPE 2A - USE 6" STEEL STUDS)



6 6A 6B CAVITY WALL

(FOR TYPE 6A - USE 3 5/8" STEEL STUDS)
(FOR TYPE 6B - PROVIDE CEMENTITIOUS BD ON TOILET ROOM SIDE ONLY

DESIGN STC = 55
FIELD STC = 51 (MIN)



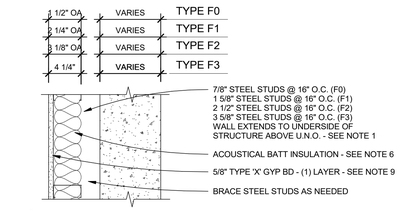
MT TYPICAL CONCRETE MASONRY UNIT WALL / SLAB ATTACHMENT

WALL CONSTRUCTION NOTES

1. WALL TYPES DESIGNATED ON DRAWINGS WITH AN 'X' SUFFIX, (ie. 5) SHALL HAVE GYPSUM WALLBOARD (& ACOUSTICAL BATT INSULATION WHERE INDICATED) TERMINATE 4" ABOVE SCHEDULED CEILING, WITH STEEL STUDS CONTINUING TO UNDER SIDE OF STRUCTURE ABOVE. OPENINGS IN WALL ABOVE CEILING ARE TO ACCOMMODATE FLOW OF RETURN AIR & ARE TO BE COORDINATED WITH MECHANICAL REQUIREMENTS. THIS IS VERY SELDOM USED. WALLS NOT DESIGNATED WITH AN 'x' SUFFIX SHALL HAVE THE ENTIRE WALL SYSTEM TERMINATE AT UNDERSIDE OF STRUCTURE AS INDICATED.
2. WALL TYPES DESIGNATED WITH '48' ADJACENT TO WALL TYPE SYMBOL SHALL TERMINATE AT 48" ABOVE FINISHED FLOOR. PROVIDE STEEL TUBE, ANGLE OR HEAVY GAUGE STUDS INSIDE THE WALL, AS REQUIRED TO MEET WALL DEFLECTION CRITERIA.
3. PROVIDE DEFLECTION TRACK AT TOP OF ALL WALLS THAT EXTEND TO STRUCTURE ABOVE, (TYPICAL). PROVIDE FIRE-RATED DEFLECTION TRACK SYSTEM AT TOP OF ALL FIRE-RATED WALLS, (TYPICAL). SEE DETAILS H1-4 ON THIS SHEET.
4. SEE SPECIFICATIONS FOR SECTION 07 84 00 FOR FIRESTOPPING REQUIREMENTS.
5. DENOTES WALL TYPE ON TOP LINE & FIRE RATING ON BOTTOM LINE - SEE WALL TYPE DESCRIPTIONS FOR RATING AND TOP OF WALL TERMINATION REQUIREMENTS
6. WHERE ACOUSTICAL BATT INSULATION IS USED IN WALLS: SEAL AIRTIGHT W/ NON-HARDENING ACOUSTICAL SEALANT AT TOP, BOTTOM & SIDES. WALL-MOUNTED ELECTRICAL BOXES SHOULD BE OFFSET MIN 24" (NOT BACK TO BACK) W/ PERIMETER OF BOXES SEALED AIR-TIGHT W/ NON-HARDENING ACOUSTICAL SEALANT. PIPE & DUCT PENETRATIONS SHOULD BE SLEEVED, PACKED W/ 10lb. DENSITY CLOSED CELL FOAM, & SEALED TO WALL W/ NON-HARDENING ACOUSTICAL SEALANT.

   ALL WALLS ARE TO RECEIVE INSULATION, EVEN IF NOT SPECIFICALLY SHOWN IN SECTIONS AND DETAILS.

   PROVIDE 'INSULHOLD' HANGERS OR EQ BATT RETAINING CLIPS HORIZONTALLY @ MAX 48" SPACING PER MFG SPECS IN ALL SINGLE SIDED (GYP BD) FURRING WALLS.
7. IN CORRIDORS, WHERE EXPOSED GYP BD OCCURS ABOVE WALL TILES, USE ABUSE RESISTANT GYP BD. WHERE (2) LAYERS OF GYP BD ARE REQUIRED, ON CORRIDOR SIDE, ONLY OUTER LAYER NEEDS TO BE ABUSE RESISTANT TYPE.
8. SEE SPECS FOR TEMPERATURE & HUMIDITY REQUIREMENTS PRIOR TO INSTALLING ANY TYPE WALLBOARD PRODUCT. INSTALLATION PRIOR TO SPECIFIED AND MFG. RECOMMENDED CONDITIONS IS AT THE SOLE RISK OF THE CONTRACTOR AND MAY REQUIRE TEAR-DOWN AND REPLACEMENT WITHOUT ADDITIONAL COST TO THE OWNER OR LOSS OF TIME TO THE CONSTRUCTION SCHEDULE.
9. SEE SPECS 09 90 00 FOR FINISH REQUIREMENTS OF GYP BD AT WET AREAS. USE TILE BACKER BOARD (CEMENT BOARD) FOR ALL TILES AREAS. GREEN BOARD &/OR BLUE BOARD ARE PROHIBITED FROM USE ON THIS PROJECT.

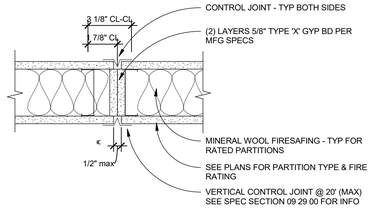


F0 FURRING w/ 7/8" STEEL CHANNEL

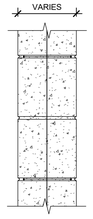
F1 FURRING w/ 1 5/8" STEEL STUD

F2 FURRING w/ 2 1/2" STEEL STUD

F3 FURRING w/ 3 5/8" STEEL STUD



A TYPICAL GYP BD CONTROL JOINT



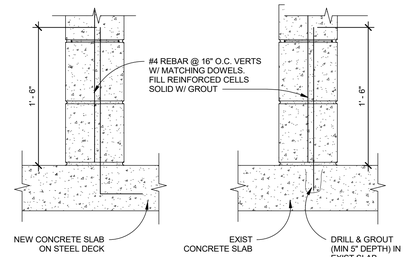
REINFORCE ALL MASONRY WALLS W/ #4 REBAR @ 16" VERTS W/ MATCHING DOWELS TO MATCH EXTENDED 16" REBAR FROM SLAB OR WALL. FULLY GROUT REINFORCED CELLS. SEE SPECS & STRUCTURAL DWGS FOR OTHER REQUIREMENTS

M4 DENOTES 4" CMU
M6 DENOTES 6" CMU
M8 DENOTES 8" CMU
M10 DENOTES 10" CMU
M12 DENOTES 12" CMU

REFER TO DETAILS MT & MB FOR REQUIREMENTS WHERE MASONRY WALLS CONNECT TO FLOORS AND DECKS

M4 M6 M8 M10 M12 CONCRETE MASONRY UNIT WALL

MASONRY UNITS MUST ACHIEVE INTENDED FIRE RATING SHOWN IN PLANS & PER UL U906 (2hr RATING) - SEE SPECS FOR MORE INFO



MB TYPICAL CONCRETE MASONRY UNIT WALL & SLAB ATTACHMENT

INFILL WALL CONSTRUCTION TO MATCH ADJACENT CONSTRUCTION AND FINISHES OF SURROUNDING WALL. V.I.F.

IF INFILL WALL

BETHUNE LEARNING CENTER

Alterations

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CONSTRUCTION DOCUMENTS

Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2020	SED ISSUE

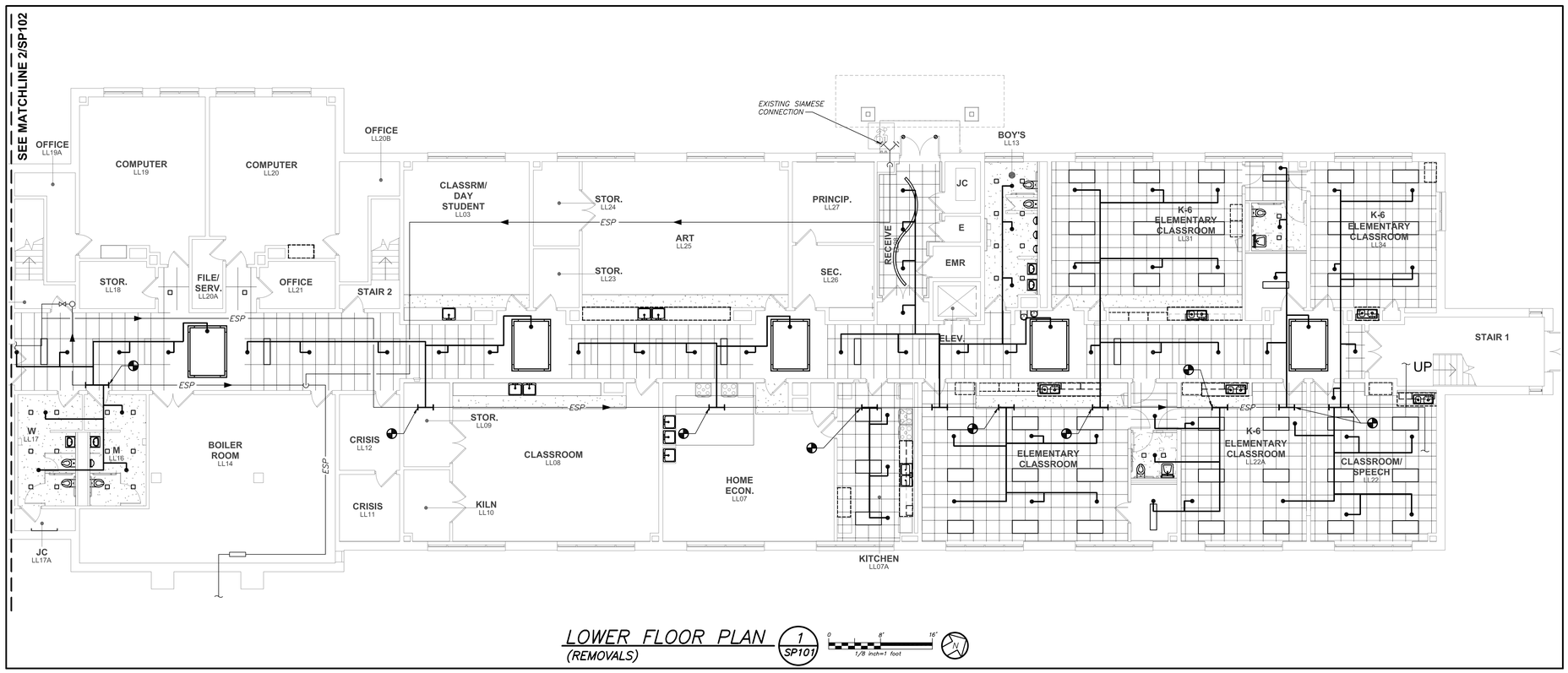
Sheet Title

WALL TYPES, DOOR SCHEDULE AND TYPICAL DOOR DETAILS

Job No.	Date
2019-1029	01/17/2020
Scale	Drawn / Checked
AS NOTED	-

Sheet Number

A901

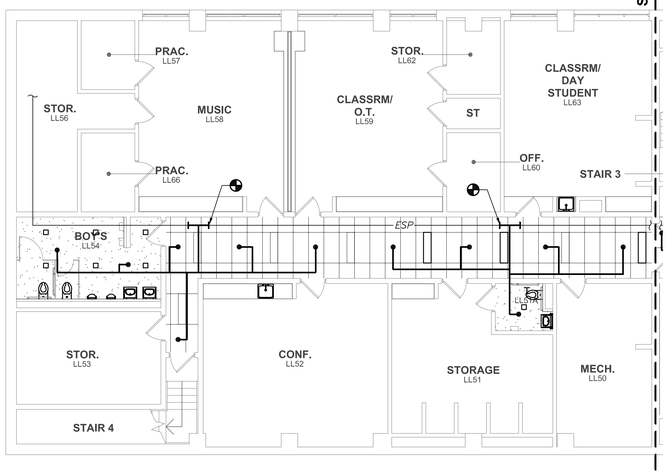


LOWER FLOOR PLAN (REMOVALS)

1 SP101

0 8' 16'

1/8 inch=1 foot



LOWER FLOOR PLAN (REMOVALS)

2 SP101

0 8' 16'

1/8 inch=1 foot

REMOVE EXISTING SPRINKLER HEADS AND BRANCH PIPING IN ALL AREAS CEILINGS ARE TO BE REPLACED. PROVIDE NEW HEADS AND CONNECT TO EXISTING BRANCH PIPING.

EXISTING CONDITIONS ON THESE DRAWINGS WERE OBTAINED FROM DOCUMENTS CREATED BY BEYER, BLINDER BELLE ARCHITECTS DATED 3/15/91 AND ARE FOR REFERENCE ONLY.

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

LEGEND

	EXISTING PIPING, ETC. TO BE REMOVED
	PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP)
	SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
FP	FIRE PROTECTION PIPING UNDERGROUND
SP	SPRINKLER PIPING
	FLOW DIRECTION WITHIN PIPE
	TRAMPERPROOF OS&Y VALVE WITH TAMPER SWITCH
	PART PLAN, DETAIL, SECTION NUMBER DRAWING NUMBER SECTION IDENTIFICATION

SPRINKLER GENERAL NOTES

1. CONTRACTOR SHALL NOT CUT ANY STRUCTURAL MEMBERS WITHOUT APPROVAL BY THE ARCHITECT. COORDINATE WITH OTHER PLUMBING AND DUCTWORK.
2. CONTRACTOR SHALL FURNISH AND INSTALL ALL PIPING VALVES, HEADS, TESTS, HANGERS, FITTINGS AND MISCELLANEOUS COMPONENTS TO RENDER THE SPRINKLER SYSTEM COMPLETE, OPERABLE AND IN ACCORDANCE WITH APPLICABLE CODES AND GENERALLY ACCEPTED INDUSTRY STANDARDS.
3. CENTER SPRINKLER HEADS IN GRID CEILINGS, UNLESS SHOWN OTHERWISE.

SCHEDULE OF SPRINKLER BRANCH PIPING SIZES

PIPE SIZE	MAX # OF SPRINKLER HEADS
1"	2
1 ¼"	3
1 ½"	5
2"	10
2 ½"	20
3"	40

NOTES

1. MAINS HAVE BEEN SHOWN. CONTRACTOR TO PROVIDE BRANCH PIPING BASED ON NFPA-13 PIPE SCHEDULE METHOD OF PIPE SIZING. HYDRAULIC METHOD WILL BE ACCEPTABLE AS WELL. SUBMIT SHOP DRAWINGS AND HYDRAULIC CALCULATIONS.
2. STEEL PIPE.

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Alterations

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66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

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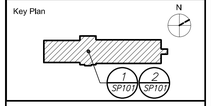
Key Plan



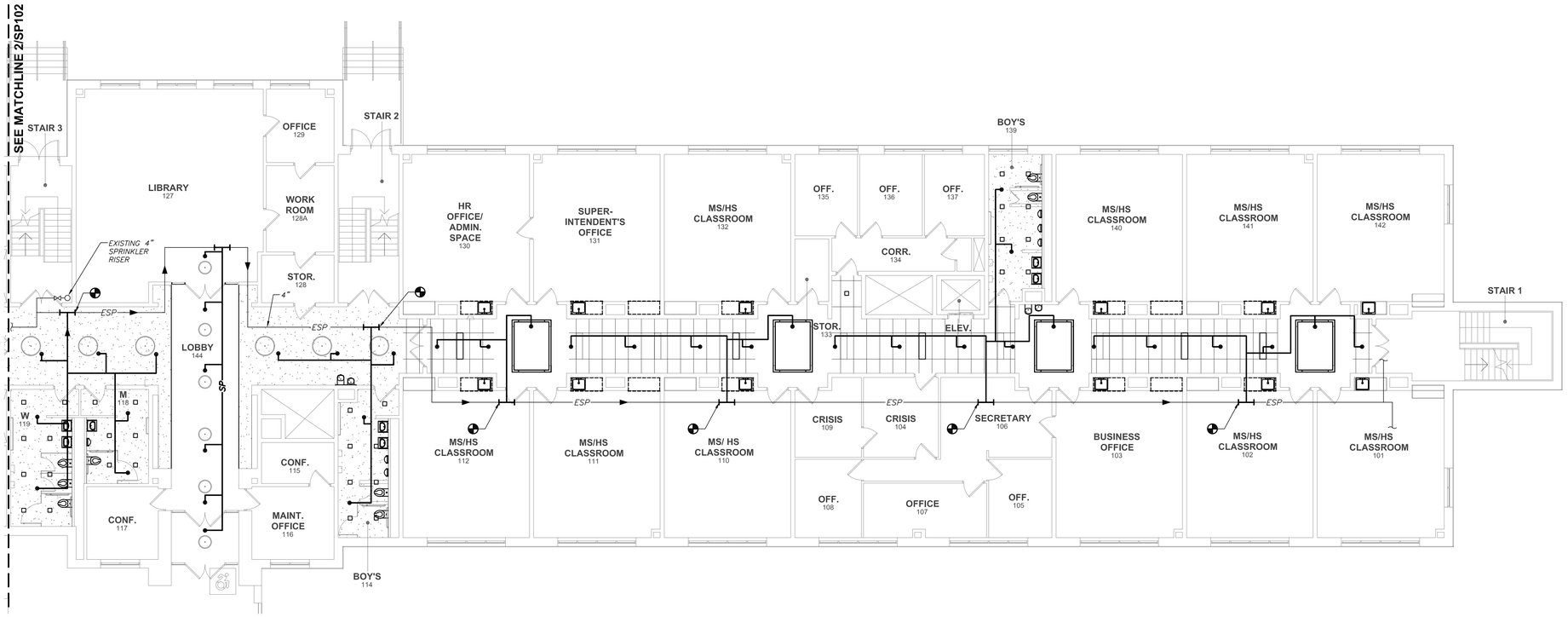
Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2019	SED ISSUE

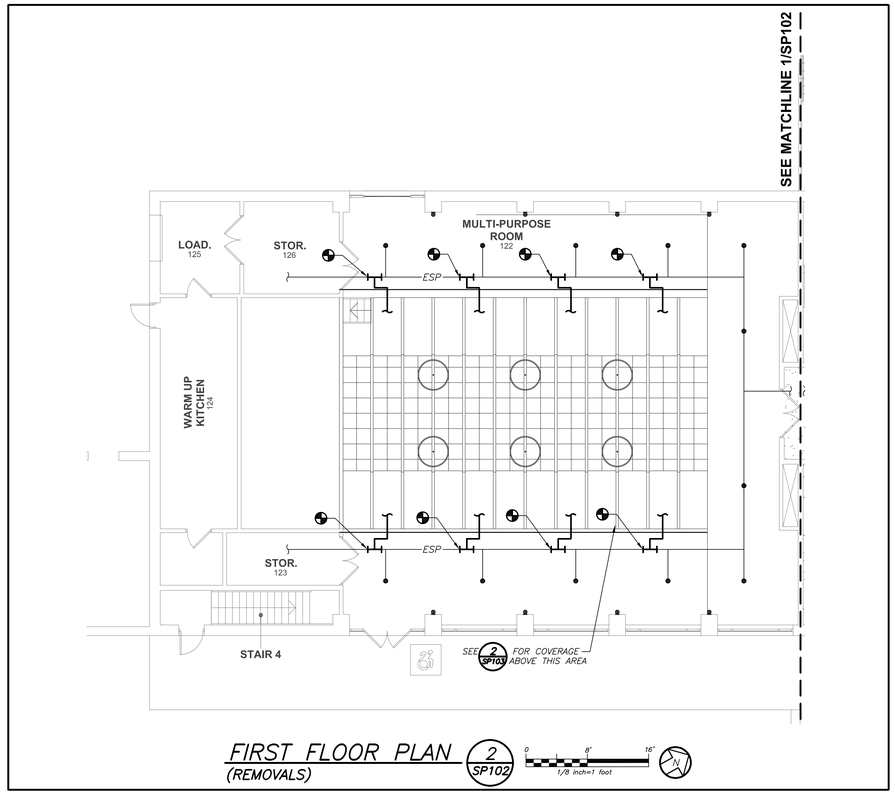
Sheet Title
LOWER FLOOR PLANS

Job No. 2019-1029	Date 01/17/2019
Scale AS NOTED	Drawn / Checked BGA/BGA

Sheet Number
SP101



FIRST FLOOR PLAN (REMOVALS) — 1/SP102 — 1/8" inch=1 foot



FIRST FLOOR PLAN (REMOVALS) — 2/SP102 — 1/8" inch=1 foot

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BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

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Dobbs Ferry, NY 10522

KG+D ARCHITECTS, PC
285 MAIN STREET• MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

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CONSULTING ENGINEERS
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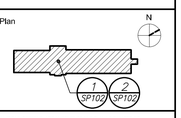
914.328.6660 GENERAL@BGA-ENG.com www.BGA-ENG.com

Key Plan



Professional Seal

No.	Date	Issue
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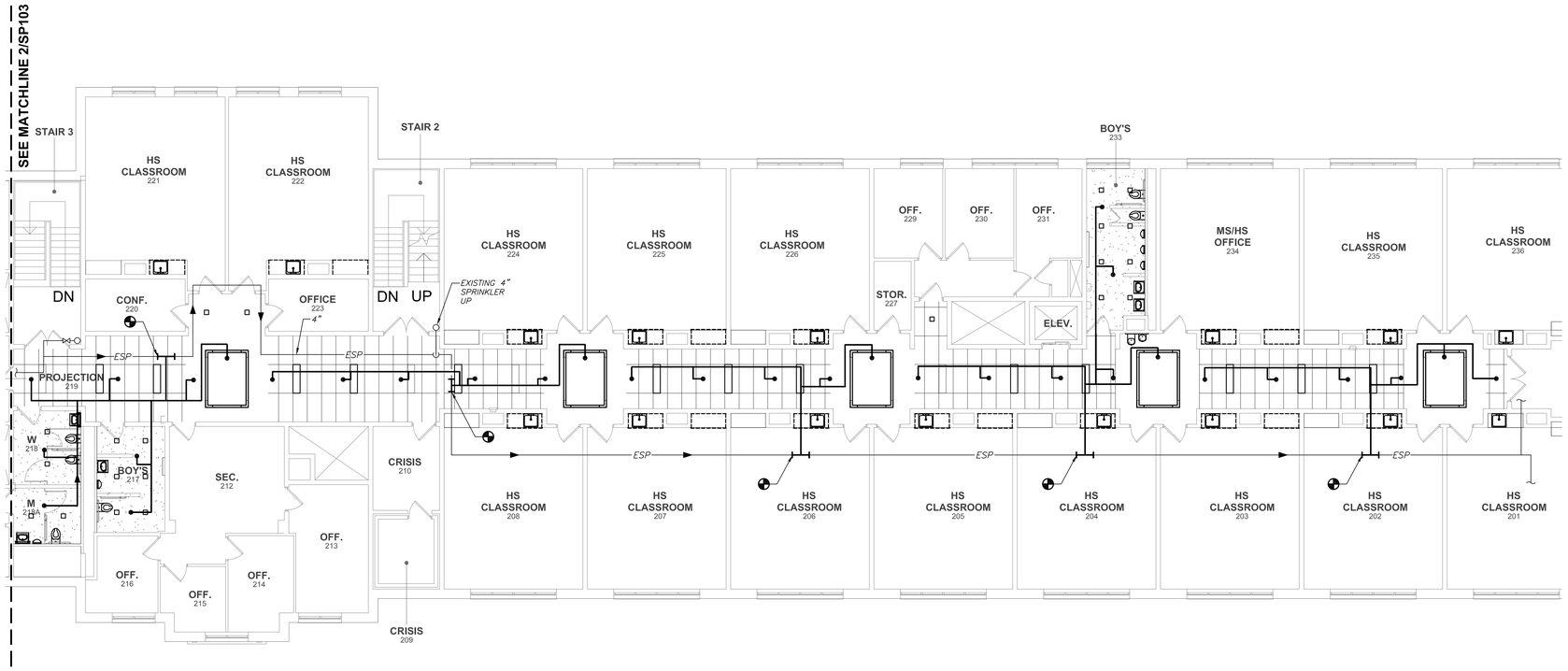
Sheet Title
FIRST FLOOR PLANS

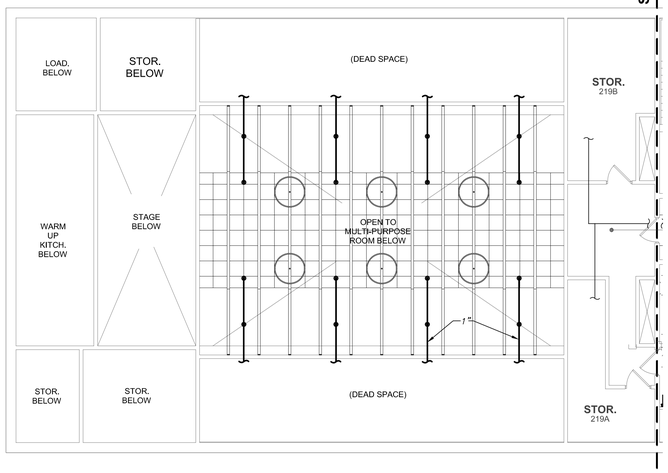
Job No.	Date
2019-1029	01/17/2019
Scale	Drawn / Checked
AS NOTED	BGA/BGA

Sheet Number
SP102



SECOND FLOOR PLAN (REMOVALS) 1/SP103

0 8' 16' 1/8 inch=1 foot



SECOND FLOOR PLAN (REMOVALS) 2/SP103

0 8' 16' 1/8 inch=1 foot

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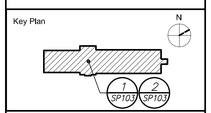

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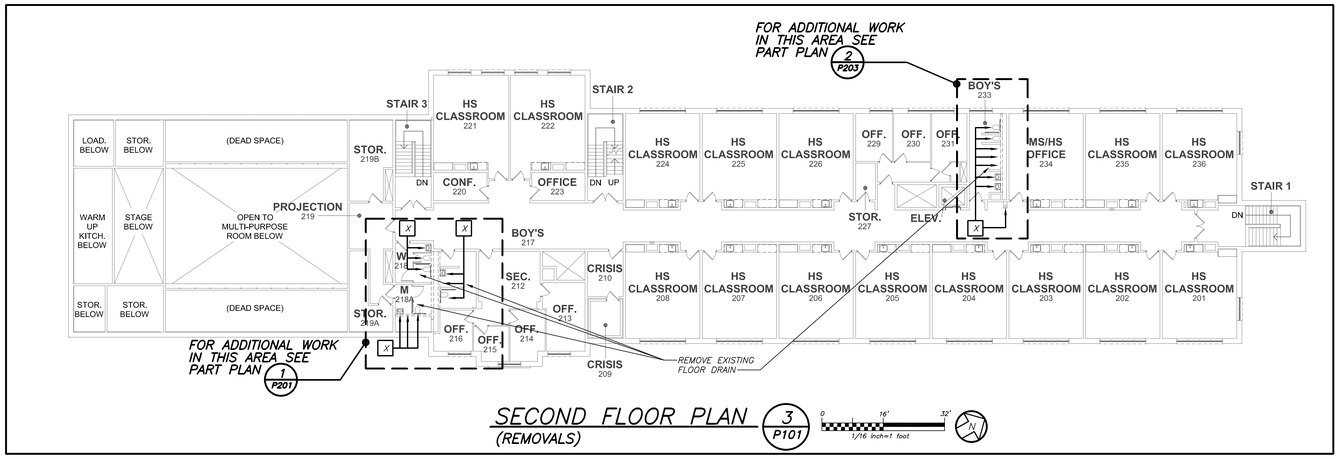
SECOND FLOOR PLANS

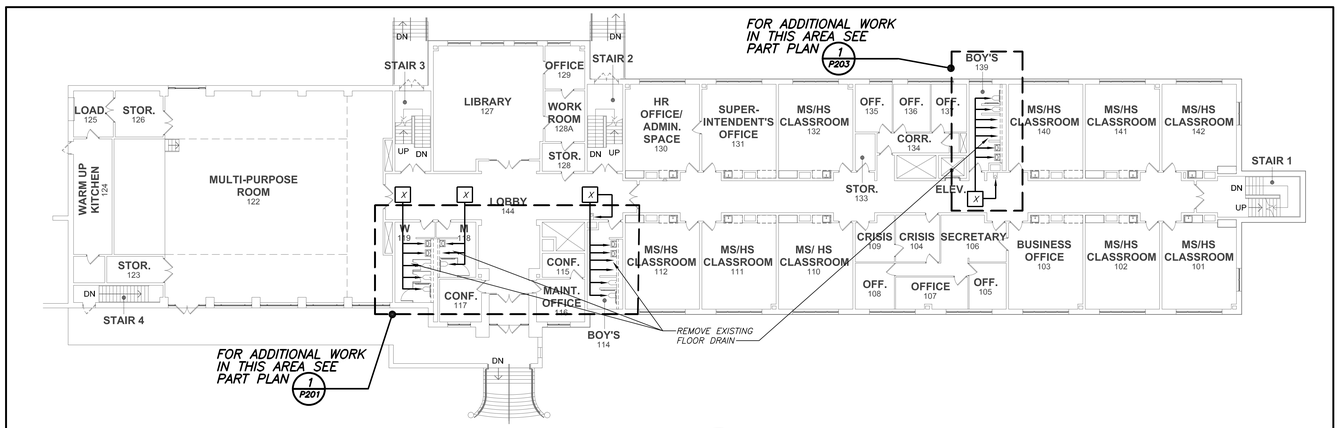
Job No.	Date
2019-1029	01/17/2019
Scale: AS NOTED	Drawn / Checked: BGA/BGA

Sheet Number
SP103



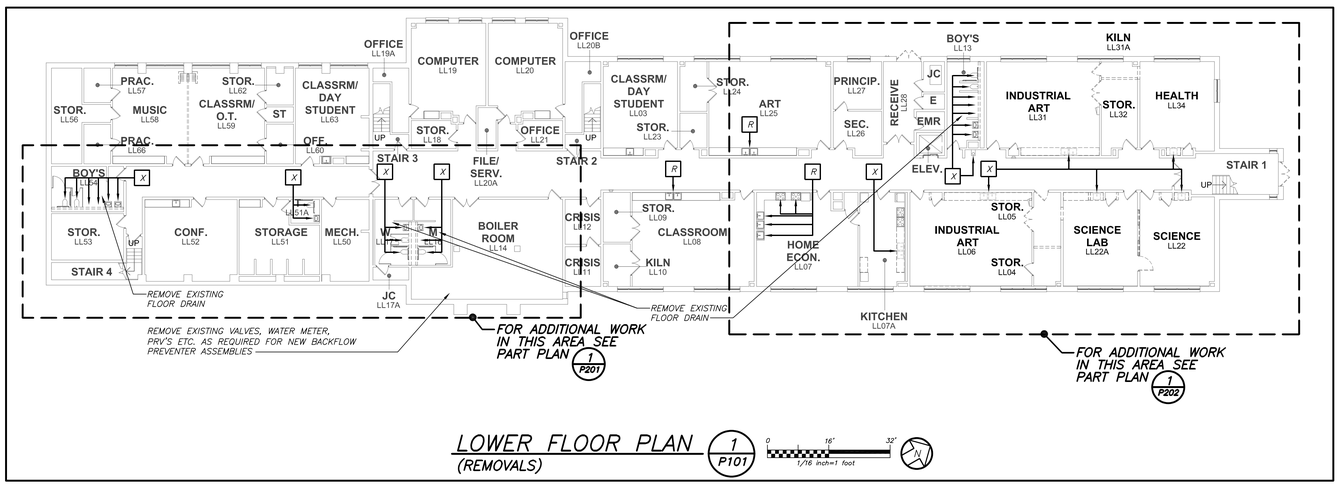
SECOND FLOOR PLAN (REMOVALS) 3 P101

0 16' 32' — 1/16 inch=1 foot



FIRST FLOOR PLAN (REMOVALS) 2 P101

0 16' 32' — 1/16 inch=1 foot



LOWER FLOOR PLAN (REMOVALS) 1 P101

0 16' 32' — 1/16 inch=1 foot

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

LEGEND

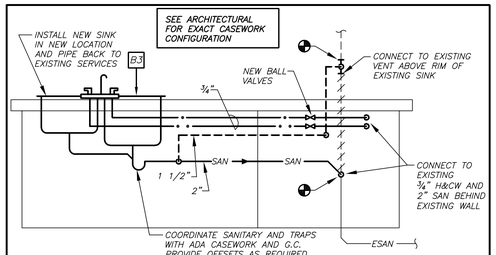
	EXISTING PIPING, FIXTURES, ETC. TO REMAIN
	EXISTING PIPING, FIXTURES, ETC. TO BE REMOVED
	NEW PIPING, FIXTURES, ETC.
	COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	PLUMBING VENT PIPING
SAN	SANITARY PIPING
SAN	SANITARY PIPING (UNDERGROUND)
W	WATER SERVICE PIPING EXTERIOR
G	GAS PIPING
	FLOW DIRECTION WITHIN PIPE
	CLEANOUT
	CLEANOUT DECK PLATE
	SHUT-OFF VALVE, GATE VALVE
	COMBINATION BALANCING & SHUT-OFF VALVE,
	CHECK VALVE
	PIPE CONNS. (BOTTOM; TOP 45 OR 90; PIPE UP)
	GAS SHUT-OFF VALVE
	GAS SOLENOID VALVE
PD	PUMP DISCHARGE
SP	SPRINKLER PIPING
DSP	SPRINKLER PIPING
F	FIRE SERVICE PIPING (EXTERIOR)
	SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
VTR	VENT THRU ROOF
FAI	FRESH AIR INTAKE
FD	FLOOR DRAIN
PRV	PRESSURE REDUCING VALVE
PC	PLUMBING CONTRACTOR
GC	GENERAL CONTRACTOR
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	PLUMBING FIXTURE IDENTIFICATION
	BACKFLOW PREVENTER APPURTENANCE IDENTIFICATION
	SUMP PUMP IDENTIFICATION
	PART PLAN, DETAIL, SECTION NUMBER DRAWING NUMBER SECTION IDENTIFICATION

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	BRANCH SIZE W.	V.	T.	C.	G.
A1	WALL MOUNTED WATER CLOSET	4"	2"	–	1"	
A2	WALL MOUNTED WATER CLOSET (HANDICAPPED)	4"	2"	–	1"	
B1	WALL MOUNTED LAVATORY	1 1/2"	1-1/2"	1/2"	1/2"	
B2	COUNTERTOP SINK (STAINLESS STEEL)	1-1/2"	1-1/2"	1/2"	1/2"	
B3	COUNTERTOP DOUBLE SINK (STAINLESS STEEL)	1-1/2"	1-1/2"	1/2"	1/2"	
B4	HOME ECONOMICS SINK	1-1/2"	1-1/2"	1/2"	1/2"	
C	WALL MOUNTED URINAL	3"	2"	–	3/4"	
D	NOT USED	1 1/2"	1-1/2"	1/2"	1/2"	
E	ELECTRIC WATER COOLER	1 1/2"	1-1/2"	–	1/2"	
R	EXISTING FIXTURE TO REMAIN	–	–	–	–	
X	EXISTING FIXTURE TO BE REMOVED – SEE REMOVAL NOTES.	–	–	–	–	

REMOVAL NOTES

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



CLASSROOM SINK PIPING DETAIL 4 P101 — NO SCALE

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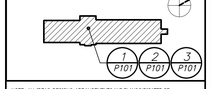
Key Plan



Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2019	SED ISSUE

Sheet Title

LEGEND, SCHEDULE, NOTES AND FLOOR PLANS

Job No. 2019-1029	Date 01/17/2019
Scale AS NOTED	Drawn / Checked BGA/BGA

Sheet Number

P101

LIST OF BACKFLOW PREVENTER APPURTENANCES

MARK	DISCRIPTION
1	RESILIENT SEATED GATE VALVE
1A	RESILIENT SEATED TAMPER PROOF OS&Y VALVE WITH TAMPER SWITCH
2	STRAINER
3	3" RPZ BACKFLOW PREVENTER – WATTS SERIES LF 009
4	6" TAMPER PROOF DOUBLE CHECK DETECTOR–WATTS SERIES 709 DCDA
5	WATER METER (PER LOCAL WATER DEPARTMENT)
6	2" TEST OUTLET VALVE
7	FUNNEL (JR SMITH 3811)

GENERAL NOTES:

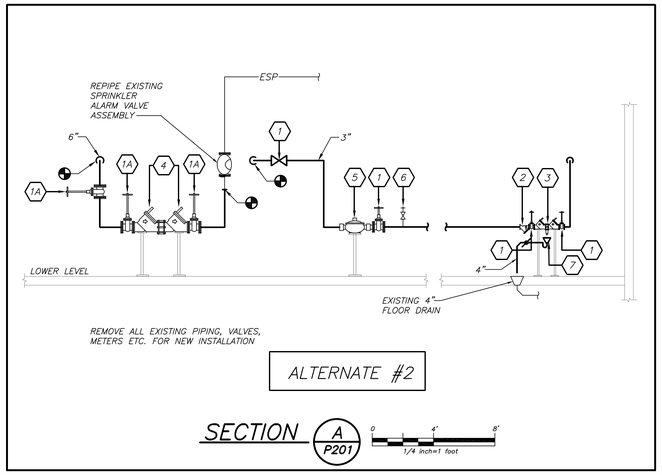
1. LOCATION OF BACKFLOW DEVICES SHALL HAVE ADEQUATE HEAT AND LIGHT.
2. BACKFLOW DEVICES SHALL BE PROTECTED FROM FLOODING.
3. BACKFLOW DEVICES AND WATER METER SHALL BE TESTED AFTER INSTALLATION.
4. OWNER SHALL ARRANGE FOR BACKFLOW DEVICES TO BE TESTED ANNUALLY BY A CERTIFIED TESTER.
5. ANY REVISIONS OR ALTERATION OF THESE PLANS WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE SIGNING ENGINEER IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

BACKFLOW PREVENTER FILING REQUIREMENTS:

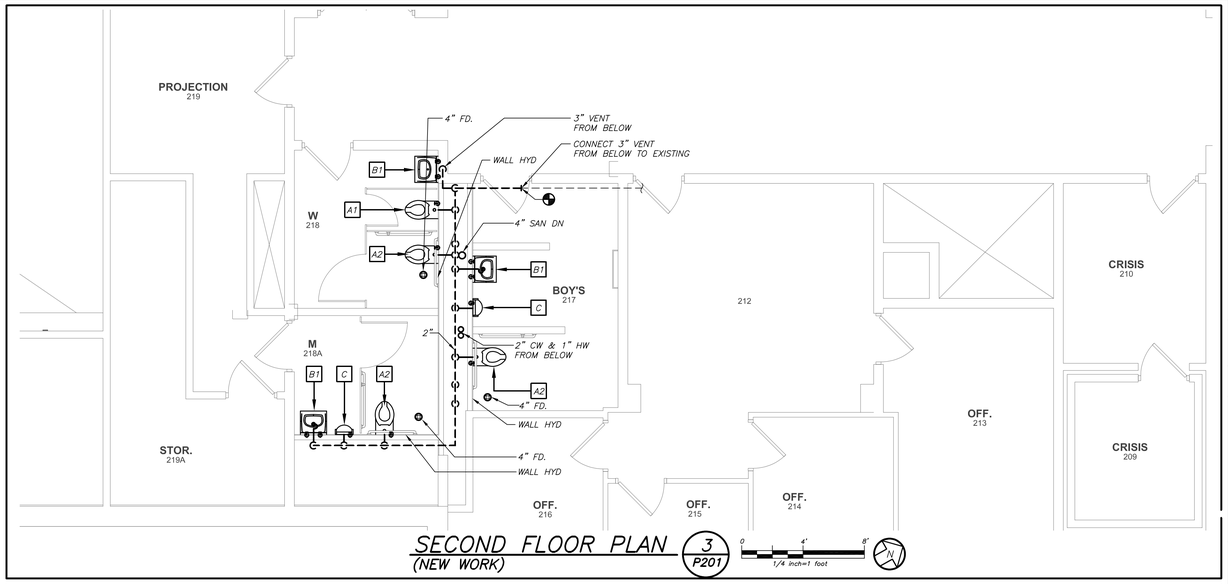
A. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING AN ENGINEER, FILING ALL APPLICATIONS, PERMITS AND FILING FEES WITH THE AUTHORITIES HAVING JURISDICTION OVER THE WORK.

B. THE FOLLOWING LIST SERVES AS THE MINIMUM FILING REQUIREMENTS, FAILURE TO LIST ANY ITEM DOES NOT RELIEVE THE CONTRACTOR FROM FULFILLING THAT REQUIREMENT.

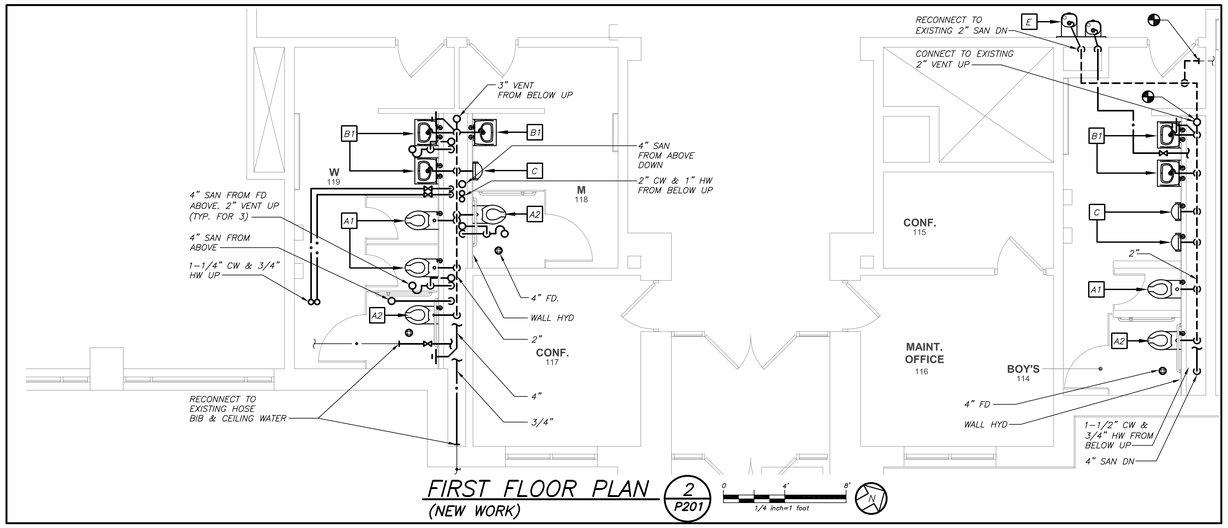
1. **PREPARE AND SUBMIT FORM DOH–347 WITH PLANS, PROFESSIONAL ENGINEERS REPORT AND SPECIFICATIONS WITH ENGINEER'S SEAL. FILE WITH HEALTH DEPARTMENT AND WATER DEPARTMENT.**
2. **CERTIFICATE OF RESOLUTION OF LETTER OF AUTHORIZATION FROM OWNER/USER TO AUTHORIZE LICENSED PROFESSIONAL TO EXECUTE DESIGN.**
3. **FILING FEES, PER DEVICE.**
4. **EVIDENCE OF CONFORMANCE TO NEW YORK STATE SANITARY CODE, PART 5 AND CHAPTER 873 OF THE LAWS OF WESTCHESTER COUNTY.**



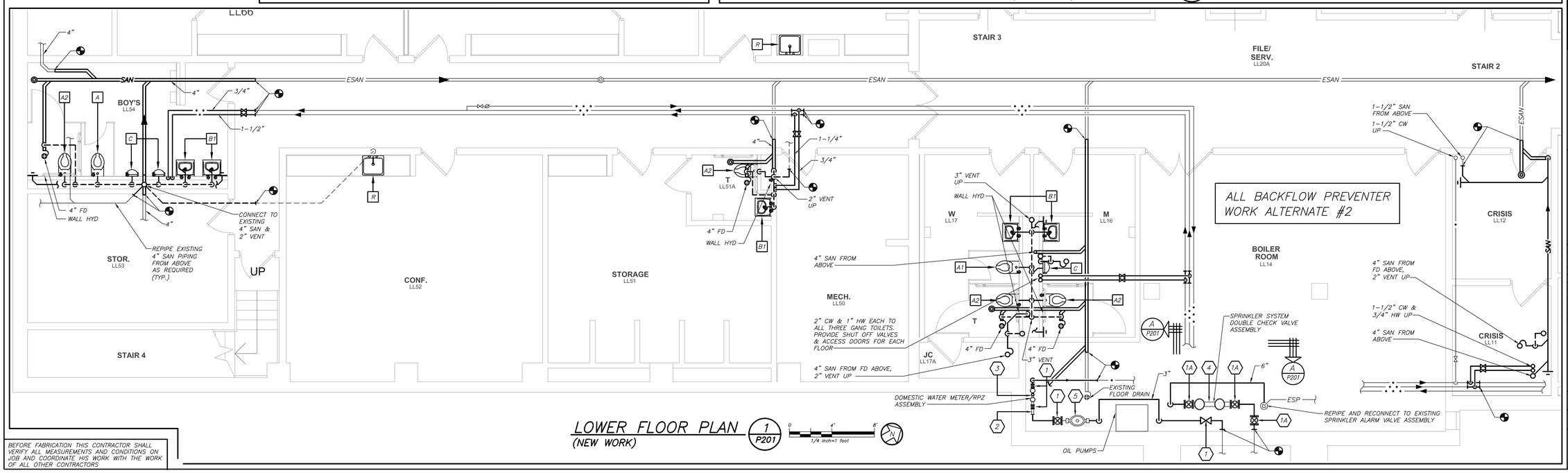
SECTION A/P201 — 1/4 inch=1 foot



SECOND FLOOR PLAN (NEW WORK) 3/P201 — 1/4 inch=1 foot



FIRST FLOOR PLAN (NEW WORK) 2/P201 — 1/4 inch=1 foot



LOWER FLOOR PLAN (NEW WORK) 1/P201 — 1/4 inch=1 foot

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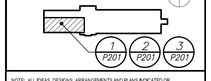

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Sheet Title

LOWER, FIRST & SECOND FLOOR PART PLANS

Job No.	Date
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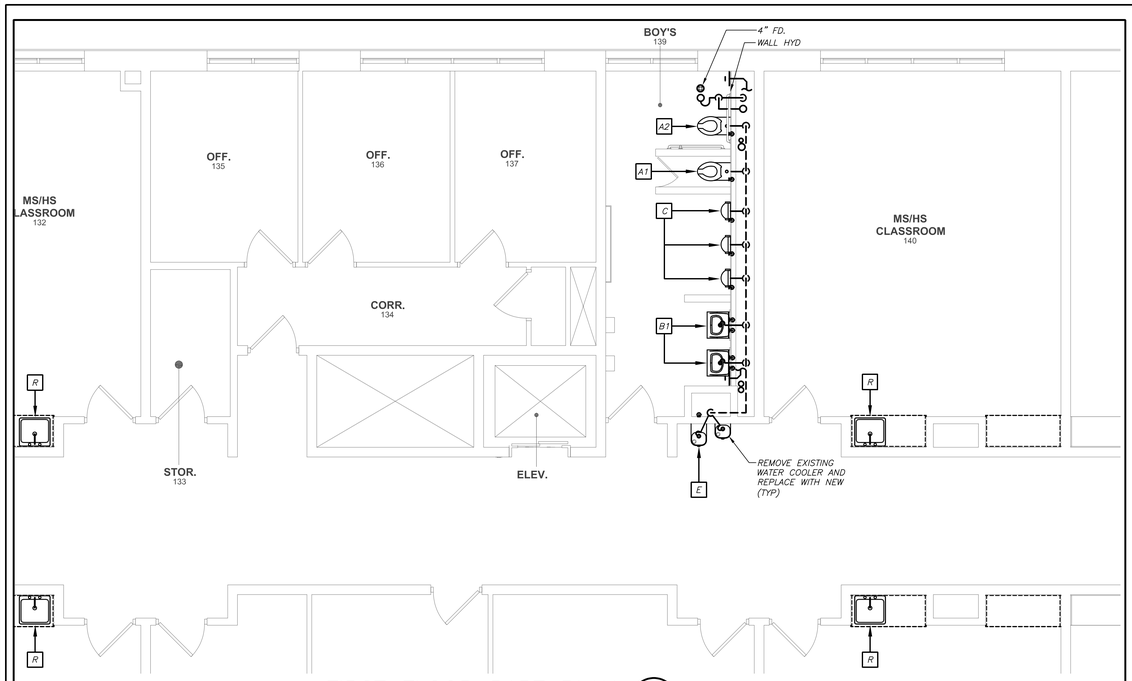
Scale	Drawn / Checked
AS NOTED	BGA/BGA

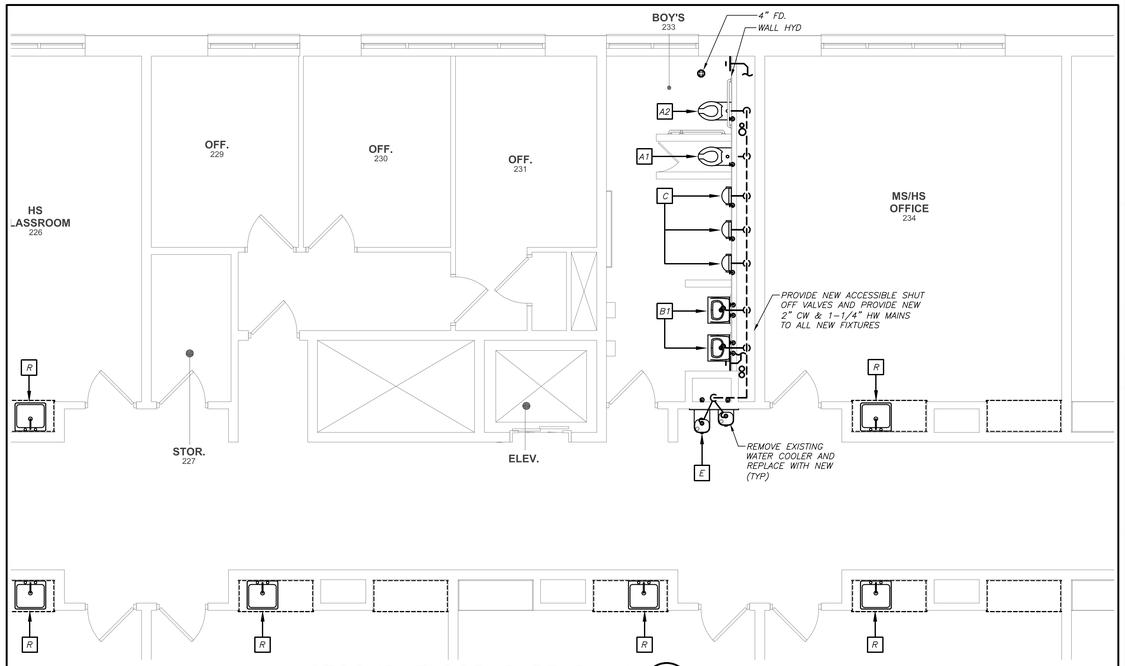
Sheet Number

P201



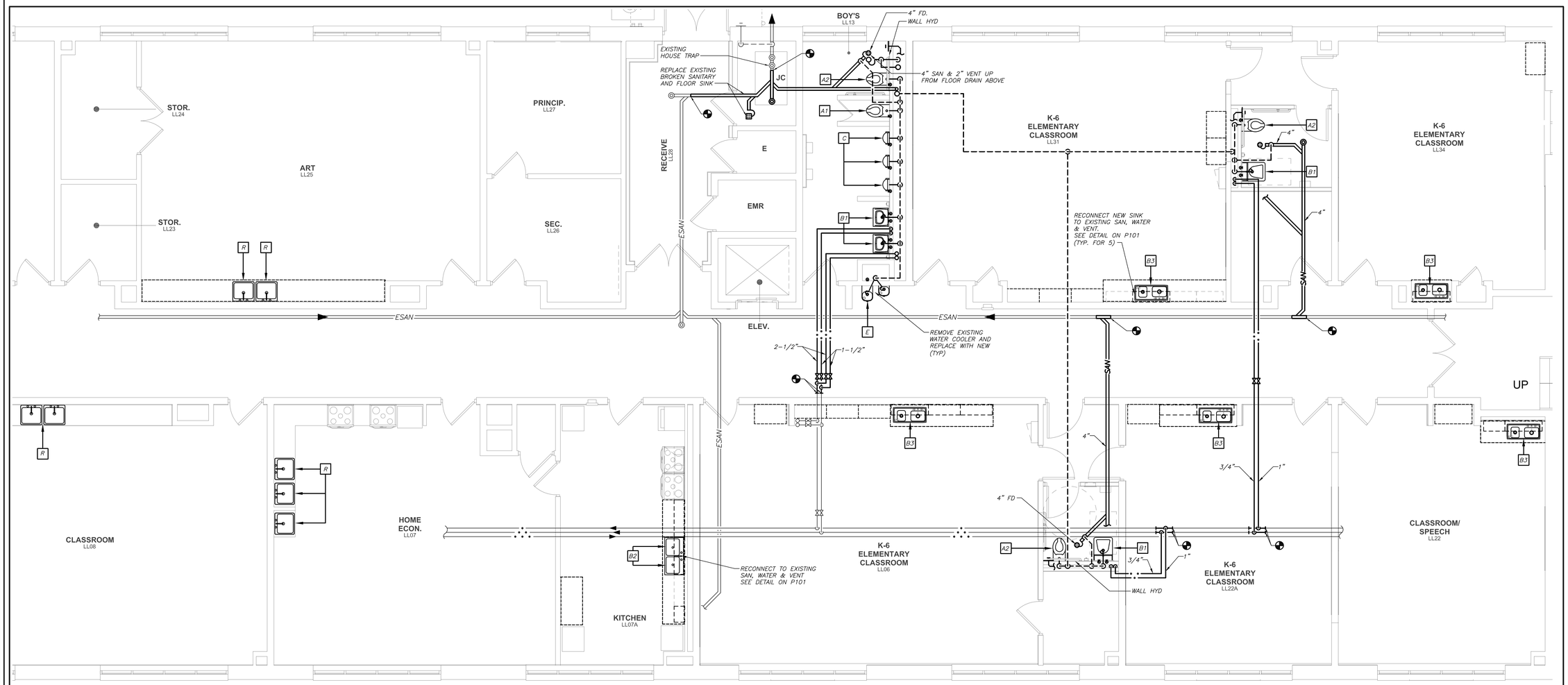
FIRST FLOOR PART PLAN (NEW WORK) 2 / P202

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



SECOND FLOOR PART PLAN (NEW WORK) 3 / P202

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



LOWER FLOOR PART PLAN (NEW WORK) 1 / P202

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

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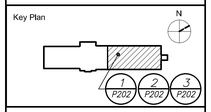

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Sheet Title
LOWER, FIRST & SECOND FLOOR PART PLANS

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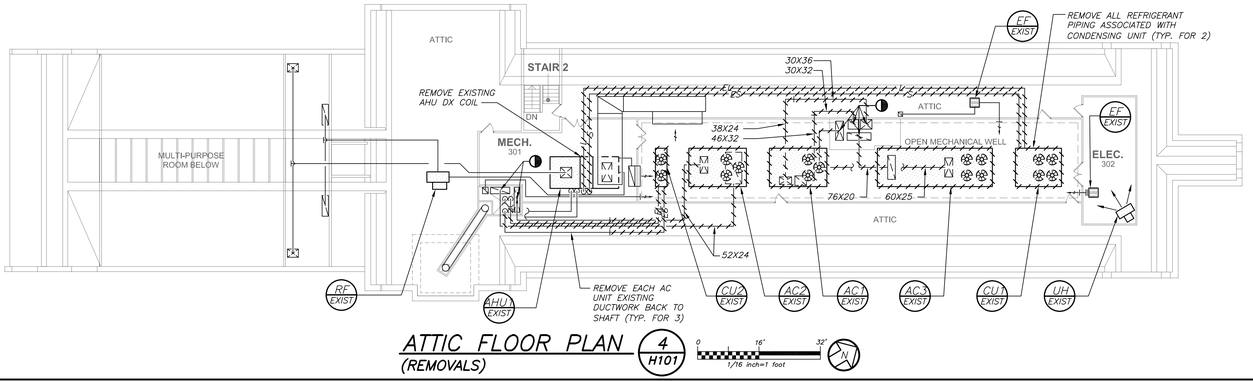
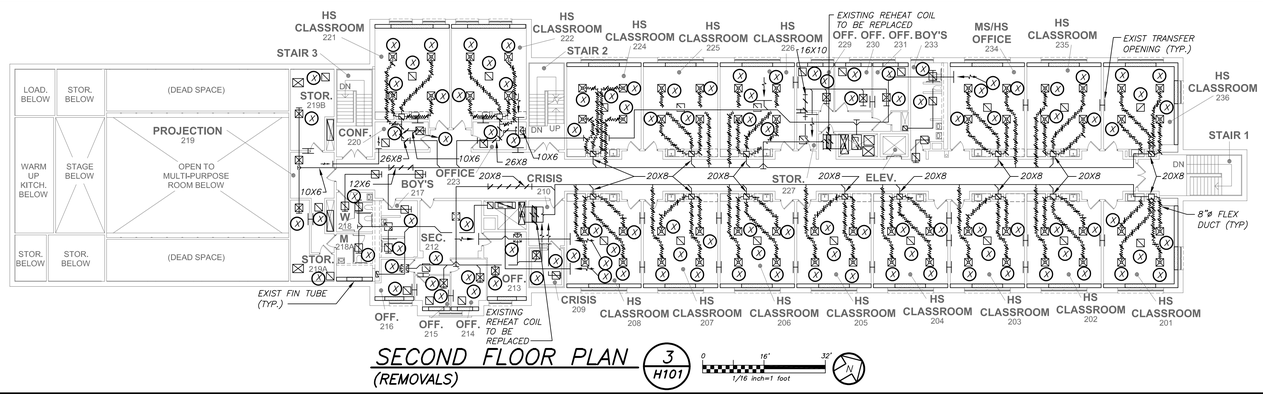
P202



ATTIC FLOOR PLAN (REMOVALS)

4 / H101

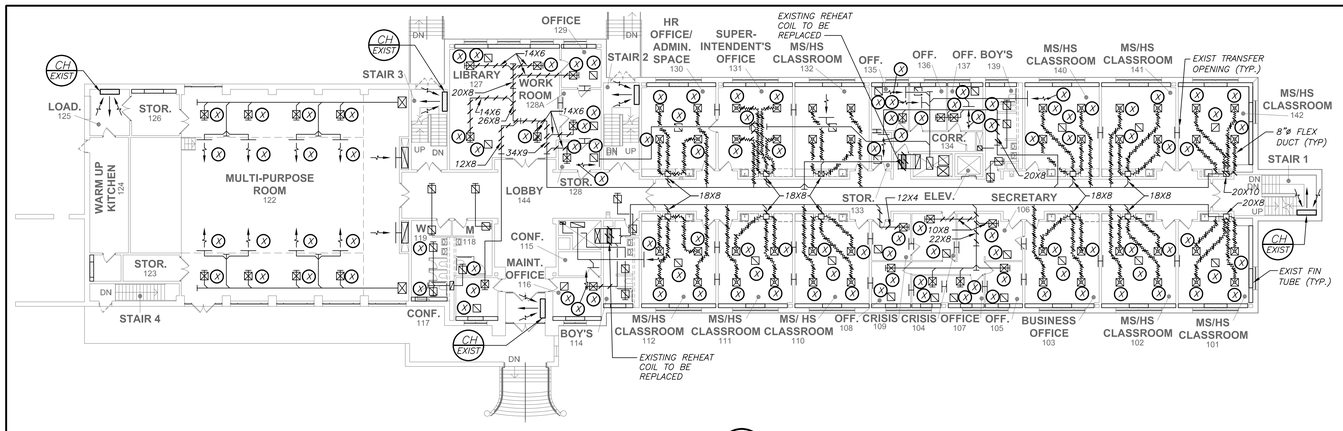
0 16' 32' — 1/16 inch=1 foot



SECOND FLOOR PLAN (REMOVALS)

3 / H101

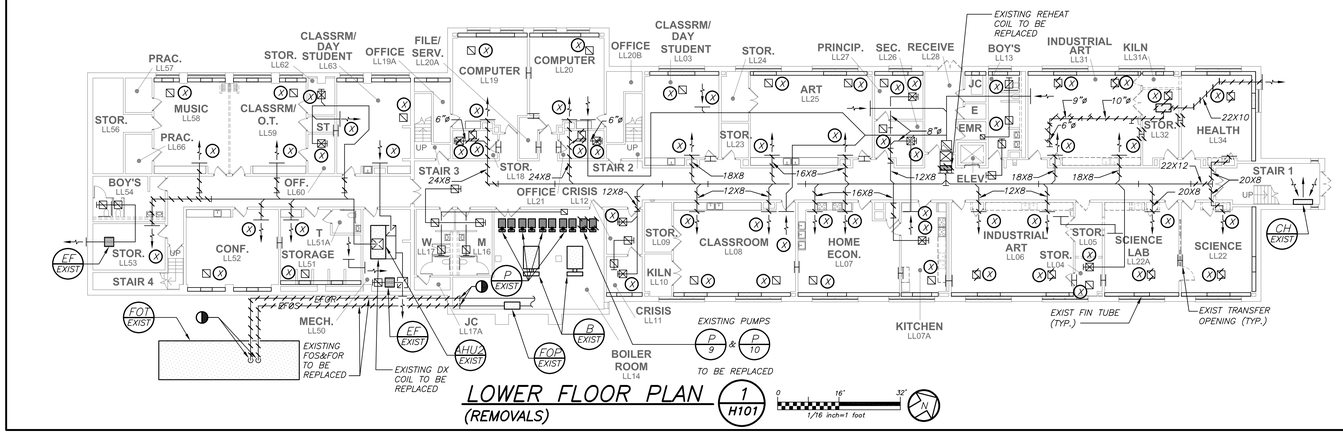
0 16' 32' — 1/16 inch=1 foot



FIRST FLOOR PLAN (REMOVALS)

2 / H101

0 16' 32' — 1/16 inch=1 foot



LOWER FLOOR PLAN (REMOVALS)

1 / H101

0 16' 32' — 1/16 inch=1 foot

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LEGEND

	NEW DUCTWORK 1" INTERNAL ACOUSTIC LINING WHERE APPLICABLE FLEXIBLE CONNECTION
	NEW DUCTWORK SIZE IS SHOWN IN DUCT SIZE
	SQUARE DUCT TURN WITH TURNING VANES
	TYPE –SEE SCHEDULE CEILING REGISTER SIZE
	TYPE –SEE SCHEDULE REGISTER/DIFFUSER IDENTIFICATION CFM
X	EXISTING REGISTER/DIFFUSER IDENTIFICATION
	DUCT MTD. MANUAL AIR VOLUME DAMPER (W/LOCKING DEVICE)
	EXISTING 4–WAY CEILING DIFFUSER
	EXISTING CEILING REGISTER
	TYPE –SEE SCHEDULE NEW 4–WAY CEILING DIFFUSER CFM
	TYPE –SEE SCHEDULE CEILING EXHAUST/RETURN REGISTER CFM
EHWS	EXISTING HOT WATER HEATING SUPPLY PIPING
EHWR	EXISTING HOT WATER HEATING RETURN PIPING
EFOS	EXISTING FUEL OIL SUPPLY PIPING
EFOR	EXISTING FUEL OIL RETURN PIPING
EL	EXISTING LIQUID REFRIGERANT LINE
ES	EXISTING SUCTION REFRIGERANT LINE
HWS	NEW HOT WATER HEATING SUPPLY PIPING
HWR	NEW HOT WATER HEATING RETURN PIPING
FOS	NEW FUEL OIL SUPPLY PIPING
FOR	NEW FUEL OIL RETURN PIPING
L	NEW LIQUID REFRIGERANT LINE
S	NEW SUCTION REFRIGERANT LINE
	FLOW DIRECTION WITHIN PIPE
	SHUT OFF VALVE
	COMBINATION BALANCING & SHUT–OFF VALVE (CIRCUIT SETTER)
	PIPE CONNECTIONS (BOTTOM; TOP 45 OR 90; PIPE UP)
EEF	EXISTING EXHAUST FAN IDENTIFICATION
ECH	EXISTING CABINET HEATER UNIT IDENTIFICATION
EPU	EXISTING PACKAGED ROOFTOP UNIT IDENTIFICATION
EAH	EXISTING AIR HANDLING UNIT IDENTIFICATION
EFP	EXISTING FUEL OIL PUMP IDENTIFICATION
EFT	EXISTING FUEL OIL TANK IDENTIFICATION
ECU	EXISTING CONDENSING UNIT IDENTIFICATION
ERF	EXISTING RETURN FAN IDENTIFICATION
EF	EXHAUST FAN IDENTIFICATION
PU	PACKAGED ROOFTOP UNIT IDENTIFICATION
CU	CONDENSING UNIT IDENTIFICATION
AH	COOLING COIL IDENTIFICATION
	TYP. NEW VARIABLE AIR VOLUME TERMINAL IDENTIFICATION DESIGN SUPPLY CFM/MINIMUM SUPPLY CFM
T	WALL MTD.(5'–2"+/– A.F.F.) TEMPERATURE SENSOR
T	EXISTING TEMPERATURE SENSOR
	POINT OF DISCONNECTION
	POINT OF CONNECTION, NEW TO EXISTING
CFM	CUBIC FEET PER MINUTE
OAI	OUTSIDE AIR INTAKE
FC	FLEXIBLE CONNECTION
AD	ACCESS DOOR
	SECTION/DETAIL/ELEVATION/PART PLAN NUMBER DRAWING NUMBER SECTION/ELEVATION IDENTIFICATION

REMOVAL NOTES:

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

BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

1 Echo Hill Drive - Building #36
Dobbs Ferry, NY 10522

KG+D listen imagine build
KG+D ARCHITECTS, PC
285 MAIN STREET• MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

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Key Plan

Professional Seal

No.	Date	Issue
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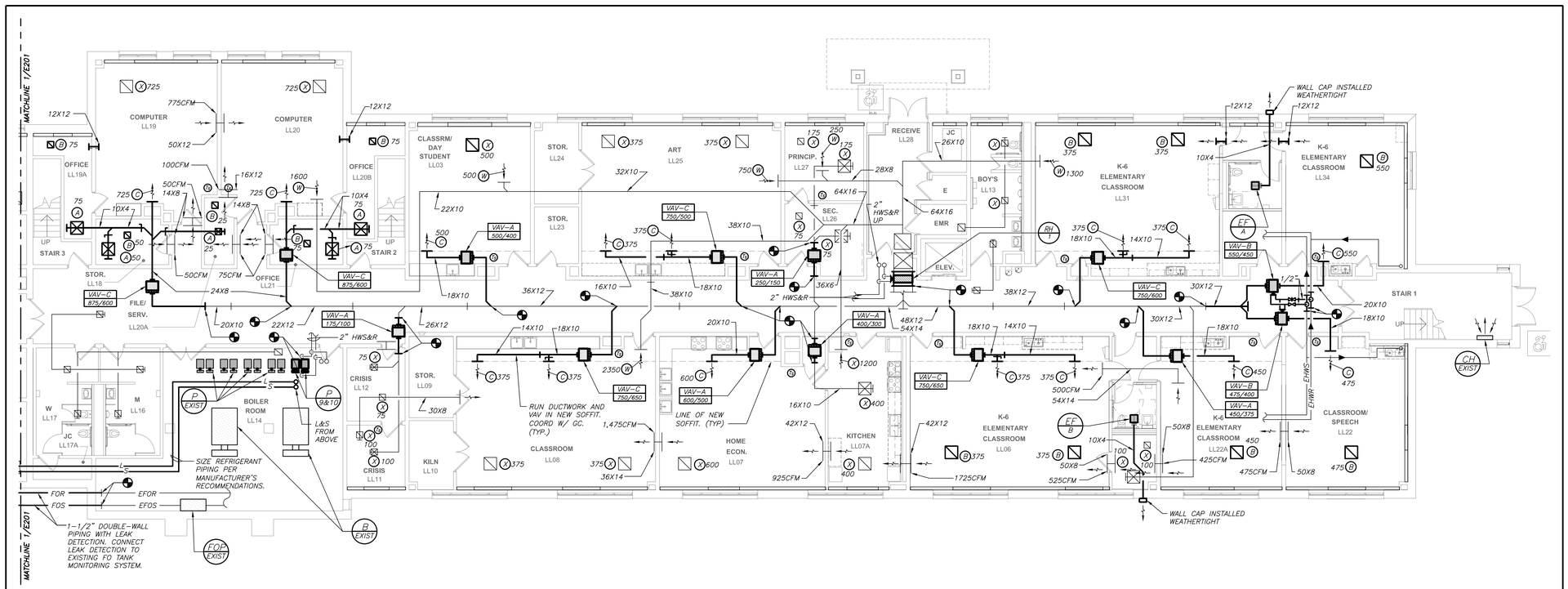
Sheet Title

LEGEND, SCHEDULE, NOTES AND FLOOR PLANS

Job No. 2019-1029	Date 01/17/2019
Scale AS NOTED	Drawn / Checked BGA/BGA

Sheet Number

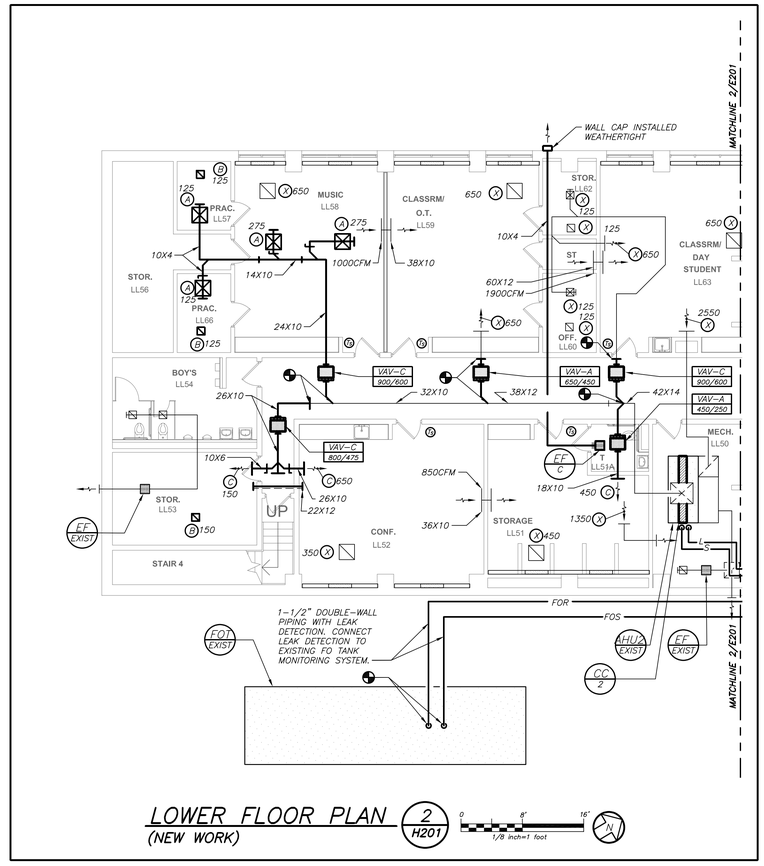
H101



LOWER FLOOR PLAN (NEW WORK)

1 / H201

0 8" 16"
1/8 inch=1 foot



LOWER FLOOR PLAN (NEW WORK)

2 / H201

0 8" 16"
1/8 inch=1 foot

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

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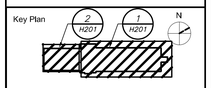
Key Plan



Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2019	SED ISSUE

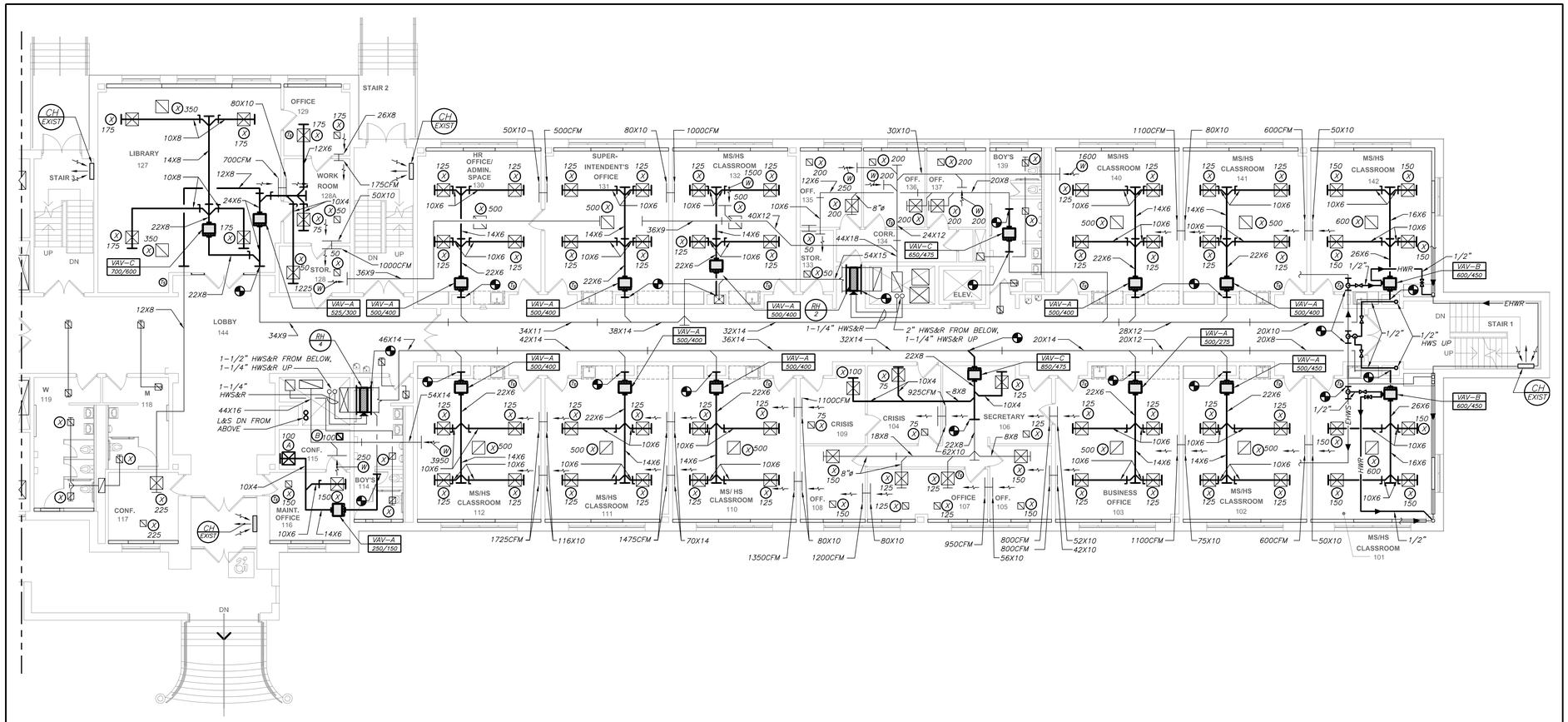
Sheet Title

PART LOWER LEVEL FLOOR PLANS

Job No.	Date
2019-1029	01/17/2019
Scale	Drawn / Checked
AS NOTED	BGA/BGA

Sheet Number

H201



FIRST FLOOR PLAN (NEW WORK) — 1 / H202

0 8' 16' — 1/8 inch=1 foot

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

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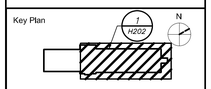
Key Plan



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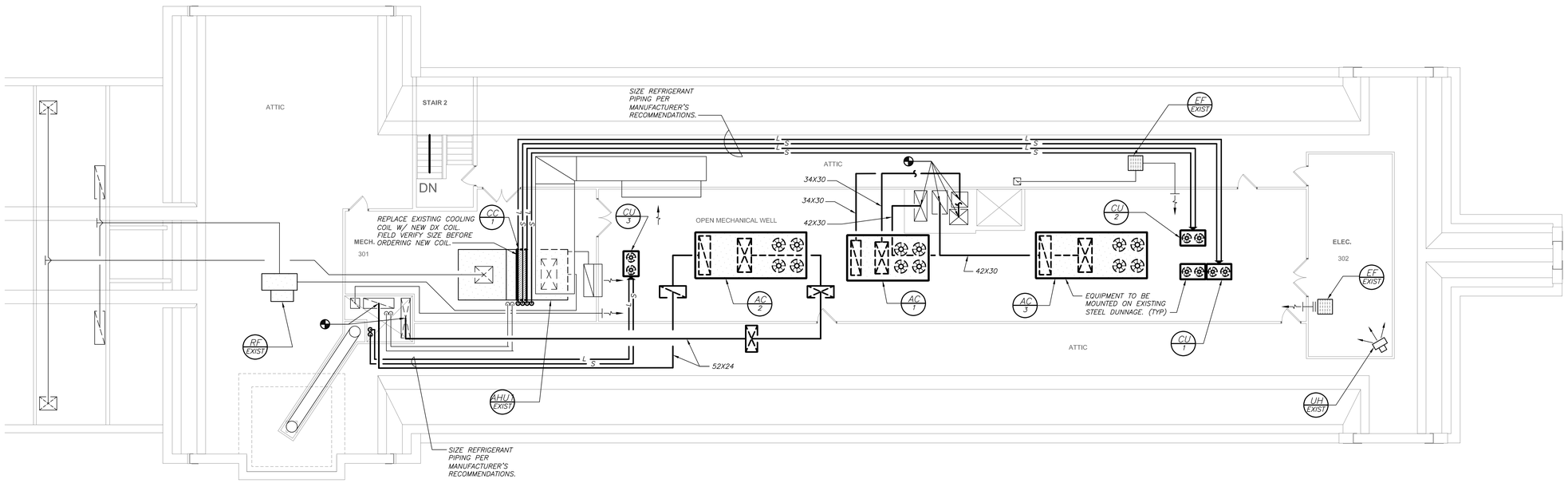
Sheet Title

PART FIRST FLOOR PLAN

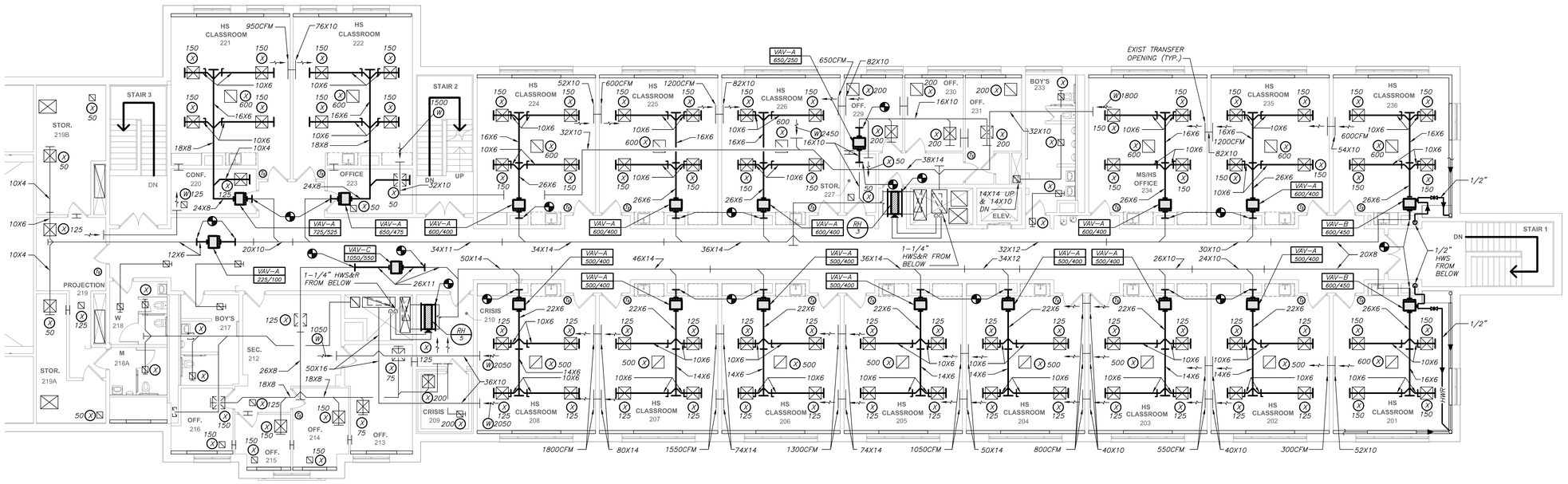
Job No.	Date
2019-1029	01/17/2019
Scale: AS NOTED	Drawn / Checked: BGA/BGA

Sheet Number

H202



PART ATTIC FLOOR PLAN (NEW WORK) — 1 / H203 — 1/8 inch=1 foot



SECOND FLOOR PLAN (NEW WORK) — 2 / H203 — 1/8 inch=1 foot

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

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Key Plan — 2 / H203, 1 / H203, N

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Sheet Title

PART ATTIC & SECOND FLOOR PLANS

Job No.	Date
2019-1029	01/17/2019
Scale	Drawn / Checked
AS NOTED	BGA/BGA

Sheet Number

H203

SCHEDULE OF PACKAGED ROOFTOP UNITS

MARK	SERVICE	MODEL NUMBER (1)	OAI CFM	SUPPLY FAN DATA: QTY	CFM	EXT. S.P. IN H_2O	FAN RPM	MOTOR HP	COOLING DATA (3): TOTAL CAP. BTU/HR	SENSIBLE CAP. BTU/HR	ENT. AIR TEMP. D.B. / W.B.	LVG. AIR TEMP. D.B. / W.B.	FILTER DATA: TYPE	SIZE (IN.)	PHYSICAL DATA: WEIGHT (LBS.)	LxWxH (IN.)	ELECTRICAL DATA: MCA	MOP	SERVICE	REMARKS
AC-1	BASEMENT	CV28C0CH2J1CAE14A1	4,100	1	8,000	1.5	1107	10	347,000	230,000	85/70	59/58	MERV 13	4"	2,515	160x90x60	175	225	208/3/60	REFER TO 2 4 5
AC-2	1ST & 2ND FLOOR EAST	TV35C0BGF1CAE14A1	4,100	1	9,600	1.5	824	7.5	400,000	256,000	84/70	59/57	MERV 13	4"	4,800	220x90x75	153	200	208/3/60	
AC-3	1ST & 2ND FLOOR WEST	TV35C0BGF1CAE14A1	4,100	1	9,600	1.5	824	7.5	400,000	256,000	84/70	59/57	MERV 13	4"	4,800	220x90x75	153	200	208/3/60	

NOTES
1. AS MANUFACTURED BY "TEMPMASTER."
2. INSTALL IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS.
3. BASED ON A.R.I. CERTIFIED COIL SELECTIONS; REFRIGERANT R-410A.
4. PROVIDE MANUFACTURER INSTALLED VAV CONTROLLER W/ VFD, POWERED EXHAUST, DISCONNECT SWITCHES, MOTORIZED CONTROL DAMPERS, AND PHASE PROTECTION. VFD'S AND DISCONNECTS SHALL BE NEMA 3R RATED FOR EXTERIOR USE.
5. MOUNT UNIT ON EXISTING STEEL DUNNAGE.

SCHEDULE OF PUMPS

MARK	SERVICE	LOCATION	MODEL No. (1)	GPM	HEAD FT.H_2O	RPM	MOTOR HP	ELECTRIC SERVICE	REMARKS
P (HB/TB)	REHEAT HOT WATER COILS	BOILER ROOM	E-1535; E-3509T	125	85	3314	5	208/3/60	REFER TO 1 3 4

NOTES
1. AS MANUFACTURED BY "BELL & GOSSETT".
2. INSTALL PUMPS PER MANUFACTURER'S RECOMMENDATIONS.
3. PUMP MOTORS SHALL BE TEFC RATED.
4. PUMP SHALL BE PREMIUM EFFICIENCY AND FURNISHED WITH MOTOR STARTER/ DISCONNECT SWITCH.

SCHEDULE OF DX COOLING COILS

MARK	SERVICE	COOLING CAP. BTU/HR	COIL FACE AREA SQ. FT.	ROWS	FINS PER INCH	REMARKS
DC-1	AHU-1 (EXIST)	600,000	39.3	4	14	REFER TO 1 2 3
DC-2	AHU-2 (EXIST)	180,00	16.3	3	12	REFER TO 1 2 3

NOTES
1. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. REFRIGERANT R-410A.
3. FIELD VERIFY COIL EXISTING COIL SIZES BEFORE ORDERING NEW COILS.

SCHEDULE OF CONDENSING UNITS

MARK	LOCATION	SERVICE	MODEL No. (1)	COOLING CAPACITY (MBH)	EER	COMPRES. DATA: TYPE	QTY	COND. DATA: FAN QTY.	ELECTRICAL DATA: MCA	MOP	ELECTRICAL SERVICE	PHYSICAL DATA DIMENSION/WEIGHT (LXW'XH'/LBS)	REMARKS
CU-1	ROOF	AHU-1 (EXIST)	ARUM408BTE5	408	9.7	SCROLL	4	4	57.9 & 60.3	80 & 80	208/3/60	98x30x67/1400	REFER TO 2 3 4 5
CU-2		AHU-1 (EXIST)	ARUM192BTE5	192	11.0	SCROLL	2	2	57.9	80	208/3/60	49x30x67/700	REFER TO 2 3 4 5
CU-3		AHU-2 (EXIST)	ARUM192BTE5	192	11.0	SCROLL	2	2	57.9	80	208/3/60	49x30x67/700	REFER TO 2 3 4 6

NOTES
1. AS MANUFACTURED BY "LG."
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. REFRIGERANT USED SHALL BE R-410a.
4. MOUNT ON EXISTING STEEL DUNNAGE. PROVIDE VIBRATION ISOLATORS, DISCONNECT SWITCH, AND PHASE PROTECTION.

SCHEDULE OF VAV TERMINAL AIR BOX

MARK	MODEL No. (1)	MAX. CFM	INLET SIZE	MINIMUM INLET S.P.(IN)	HOT WATER COIL DATA: CAP. (MBH)	GPM	EWT (°F)	HEAD LOSS (FT)	REMARKS
VAV-A */*	EZTS	675	07	0.01	–	–	–	–	REFER TO 2 3 5 6 7 8
VAV-B */*	EZTS	675	07	0.08	24	1	180	0.3	REFER TO 2 3 4 5 6 7 8
VAV-C */*	EZTS	1350	09	0.03	–	–	–	–	REFER TO 2 3 5 6 7 8

NOTES
1. AS MANUFACTURED BY "ANEMOSTAT".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE ½" THICK ACOUSTICAL LINER.
4. PROVIDE HOT WATER COIL SECTION.
5. VAV-*/*/* — SET MINIMUM CFM OF EACH BOX TO INDICATED VALUE.
6. CONTRACTOR TO COORDINATE RH OR LH CONTROLS WITH SHEET METAL SUB-CONTRACTOR. CLEARANCE SHALL BE PROVIDED TO SERVICE THE CONTROLS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. ALL VAV BOX WIRING REGARDLESS OF VOLTAGE SHALL BE BY HVAC CONTRACTOR AND SHALL BE COORDINATED WITH THE AUTOMATED TEMPERATURE CONTROL CONTRACTOR. WHERE VAV BOXES ARE SUPPLIED WITH LINE VOLTAGE, HVAC CONTRACTOR SHALL PROVIDE A THERMAL SWITCH AND ANY POWER REQUIREMENTS FOR EACH VAV BOX AND ANY TRANSFORMER REQUIRED FOR PROPER OPERATION.
8. PROVIDE POWDER COATED, STEEL, HINGED, TAMPERPROOF ACCESS DOOR FOR VAV BOX SERVICE ACCESS IN ALL HARD CEILINGS.

SCHEDULE OF REGISTERS AND DIFFUSERS

MARK	TYPE	SERVICE	MODEL No.	CFM RANGE	OUTLET SIZE	MAX. NECK SIZE	FINISH	REMARKS
A	CEILING DIFFUSER	SUPPLY	DP/DF-41	200-800 800-3200	12X12 24X24	9X9 21X21	PER ARCH.	REFER TO 1 2 3 4 5 6 7
B	CEILING RETURN REGISTER	RETURN	30-45-N1	80-270 360-1240	6X6 12X12	–		REFER TO 1 2 3 4 5 6 8
C	TOP WALL REGISTER	SUPPLY	20-S	320-1300	22X8	–		REFER TO 1 2 3 4 5 6 7
W	EXIST OPEN END DUCT W/ WIRE MESH GRILLE	–	–	–	–	–	–	REFER TO 6 7 8
X	EXIST REGISTERS/ DIFFUSERS	–	–	–	–	–	–	REFER TO 6 8

NOTES
1. AS MANUFACTURED BY "ANEMOSTAT".
2. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
3. OPPOSED BLADE DAMPER, DOUBLE DEFLECTION, 3/4" BLADE SPACING
4. AIR OUTLET TO BE OF STEEL CONSTRUCTION.
5. COORDINATE TRIM TYPE WITH CEILING CONSTRUCTION. ALL CEILING REGISTERS AND GRILLES SHALL HAVE 24X24 EXTENSION PANELS TO FIT WITHIN GRID.
6. PROVIDE CABLE OPERATED DAMPERS WHERE ACCESS IS OBSTRUCTED.

7. SUPPLY NECK SIZE PER CFM RANGE (NOT TO EXCEED 500 fpm)							8. RETURN NECK SIZE PER CFM RANGE (NOT TO EXCEED 675 fpm)							
50 TO 99	100 TO 199	200 TO 299	300 TO 499	500 TO 799	800 TO 1099	1100 TO 1399	50 TO 149	150 TO 249	250 TO 399	400 TO 599	600 TO 799	800 TO 1099	1100 TO 1199	1200 TO 2399
6x6	9x9	12x12	15x15	18x18	21X21	24X24	6x6	8X8	10X10	12X12	14X14	16X16	18X18	24X24

SCHEDULE OF FANS

MARK	SERVICE	LOCATION	TYPE	MODEL No.	CFM	TOT. S.P. IN H_2O	FAN RPM / HP (WATTS)	ELECTRIC SERVICE	SIZE (IN)	WEIGHT (LBS.)	REMARKS
EF-A	NEW WEST TOILET ROOMS	CEILING	EXHAUST	SP-B150	100	0.35	741 / (128)	120/1/60	15X14	15	REFER TO 1 2 3
EF-B	NEW EAST TOILET ROOM					0.35	741 / (128)	120/1/60			
EF-C	TOILET ROOM LL51A					0.5	817 / (128)	120/1/60			

NOTES
1. AS MANUFACTURED BY "GREENHECK".
2. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
3. PROVIDE FACTORY MOUNTED DISCONNECT, MOUNTING HARDWARE, AND RECTANGULAR WALL CAP

SCHEDULE OF HOT WATER COILS

MARK	SERVICE	HTG. CAPACITY BTU/HR	EAT (°F)	LAT (°F)	CFM	WATER P.D. (FT. OF HEAD)	COIL FACE VELOCITY FPM	ROWS	GPM	REMARKS
RH-1	AC-1	300,000	34	80	6,000	7.3	600	4	30	REFER TO 1 2 4
RH-2	AC-3 1ST FLR	170,000	38	80	3,600	4.5	500	2	17	REFER TO 1 2 4
RH-3	AC-3 2ND FLR	150,000	44	80	3,650	4.5	500	2	15	REFER TO 1 2 4
RH-4	AC-2 1ST FLR	130,000	45	80	3,400	4.5	600	2	13	REFER TO 1 2 4
RH-5	AC-2 2ND FLR	160,000	40	80	3,750	4.5	600	2	16	REFER TO 1 2 4
RH-6 (EXIST)	AHU-2 (EXIST)	–	–	–	–	–	–	–	–	REFER TO 2 4

NOTES
1. INSTALL PER MANUFACTURER'S RECOMMENDATION.
2. E.W.T.= 180° F. L.W.T.=160° F.
3. PROVIDE FREEZE STAT.
4. CLEAN AND REFURBISH EXISTING HOT WATER COIL.

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

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No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
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Sheet Title
SCHEDULES

Job No.	Date
2019-1029	01/17/2019
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AS NOTED	BGA/BGA

Sheet Number
H301

VENTILATION CALCULATIONS AT VAV MINIMUM POSITION - AC/2

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	Vpz MINIMUM SUPPLY AIR (CFM)	Az ROOM AREA (SQ.FT.)	Ra AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	Pz ZONE POPULATION (OCCUPANTS)	Rp PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	Vbz BREATHING ZONE OUTDOOR AIR (CFM) (Vbz = Rp x Pz + Ra x Az)	Ez ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	Voz SPACE OUTDOOR AIR (CFM) (Voz = Vbz / Ez)	Zp PRIMARY OUTDOOR AIR FRACTION (Voz/Vpz)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	Evz SPACE VENTILATION EFFICIENCY (1+Xs-Zp)	Ev SYSTEM VENTILATION EFFICIENCY (LOWEST Evz)	Vot OUTDOOR-AIR INTAKE FLOW (CFM) (Vot = Vou / Ev)	MINIMUM EXHAUST AIR FLOW RATE (Az×E=CFM)
MS/HS CLASSROOM 101	CLASSROOM (AGES 9+)	450	475	0.12	17.0	10	227	0.8	284	0.64	0	0.840	0.810	280	0
MS/HS CLASSROOM 102	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.810	0.810	264	0
MS/HS CLASSROOM 103	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.810	0.810	264	0
CRISIS 104	OFFICE SPACE	50	150	0.06	2.0	5	19	0.8	24	0.48	0	1.000	0.810	23	0
OFF. 105	OFFICE SPACE	50	125	0.06	1.0	5	13	0.8	17	0.34	0	1.140	0.810	16	0
SEC. 106	OFFICE SPACE	75	275	0.06	2.0	5	27	0.8	34	0.46	0	1.020	0.810	33	0
OFF. 107	OFFICE SPACE	150	175	0.06	1.0	5	16	0.8	20	0.14	0	1.340	0.810	20	0
OFF. 108	OFFICE SPACE	75	125	0.06	1.0	5	13	0.8	17	0.23	0	1.250	0.810	16	0
CRISIS 109	OFFICE SPACE	75	150	0.06	2.0	5	19	0.8	24	0.32	0	1.160	0.810	23	0
MS/HS CLASSROOM 110	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.810	0.810	264	0
MS/HS CLASSROOM 111	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.810	0.810	264	0
MS/HS CLASSROOM 112	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.810	0.810	264	0
CONF. 115	CONFERENCE/MEETING	75	75	0.06	4.0	5	25	0.8	32	0.43	0	1.050	0.810	31	0
MAINT. 116	OFFICE SPACE	75	150	0.06	1.0	5	14	0.8	18	0.24	0	1.240	0.810	17	0
CONF. 117	CONFERENCE/MEETING	125	125	0.06	7.0	5	43	0.8	54	0.44	0	1.040	0.810	53	0
HS CLASSROOM 201	CLASSROOM (AGES 9+)	450	450	0.12	16.0	10	214	0.8	268	0.6	0	0.880	0.810	264	0
HS CLASSROOM 202	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.810	0.810	264	0
HS CLASSROOM 203	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.810	0.810	264	0
HS CLASSROOM 204	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.810	0.810	264	0
HS CLASSROOM 205	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.810	0.810	264	0
HS CLASSROOM 206	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.810	0.810	264	0
HS CLASSROOM 207	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.810	0.810	264	0
HS CLASSROOM 208	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.810	0.810	264	0
CRISIS 209	OFFICE SPACE	100	100	0.06	2.0	5	16	0.8	20	0.2	0	1.280	0.810	20	0
CRISIS 210	OFFICE SPACE	75	125	0.06	2.0	5	18	0.8	23	0.31	0	1.170	0.810	22	0
SEC. 212	OFFICE SPACE	75	275	0.06	2.0	5	27	0.8	34	0.46	0	1.020	0.810	33	0
OFF. 213	OFFICE SPACE	75	200	0.06	1.0	5	17	0.8	22	0.3	0	1.180	0.810	21	0
OFF. 214	OFFICE SPACE	75	125	0.06	1.0	5	13	0.8	17	0.23	0	1.250	0.810	16	0
OFF. 215	OFFICE SPACE	75	125	0.06	1.0	5	13	0.8	17	0.23	0	1.250	0.810	16	0
OFF. 216	OFFICE SPACE	75	125	0.06	1.0	5	13	0.8	17	0.23	0	1.250	0.810	16	0
	TOTAL CFM AT MIN:	7000				Vou = ∑(Az*Ra) + ∑(Pz * Rp) =	3315	Xs = Vou/Vps =	0.48				OA IN SYSTEM:	4093	

NOTE: DESIGN VAV MINIMUM POSITIONS BASED ON SCHEDULE ABOVE. SCHEDULE MINIMUM POSISTIONS TO SUPERCEDE POSITIONS SHOWN ON DRAWINGS.

VENTILATION CALCULATIONS AT VAV MAXIMUM POSITION - AC/2

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	Vpz MAXIMUM SUPPLY AIR (CFM)	Az ROOM AREA (SQ.FT.)	Ra AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	Pz ZONE POPULATION (OCCUPANTS)	Rp PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	Vbz BREATHING ZONE OUTDOOR AIR (CFM) (Vbz = Rp x Pz + Ra x Az)	Ez ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	Voz SPACE OUTDOOR AIR (CFM) (Voz = Vbz / Ez)	Zp PRIMARY OUTDOOR AIR FRACTION (Voz/Vpz)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	Evz SPACE VENTILATION EFFICIENCY (1+Xs-Zp)	Ev SYSTEM VENTILATION EFFICIENCY (LOWEST Evz)	Vot OUTDOOR-AIR INTAKE FLOW (CFM) (Vot = Vou / Ev)	MINIMUM EXHAUST AIR FLOW RATE (Az×E=CFM)
MS/HS CLASSROOM 101	CLASSROOM (AGES 9+)	600	475	0.12	17.0	10	227	0.8	284	0.48	0	0.870	0.810	280	0
MS/HS CLASSROOM 102	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.810	0.810	264	0
MS/HS CLASSROOM 103	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.810	0.810	264	0
CRISIS 104	OFFICE SPACE	100	150	0.06	2.0	5	19	0.8	24	0.24	0	1.110	0.810	23	0
OFF. 105	OFFICE SPACE	150	125	0.06	1.0	5	13	0.8	17	0.12	0	1.230	0.810	16	0
SEC. 106	OFFICE SPACE	125	275	0.06	2.0	5	27	0.8	34	0.28	0	1.070	0.810	33	0
OFF. 107	OFFICE SPACE	250	175	0.06	1.0	5	16	0.8	20	0.08	0	1.270	0.810	20	0
OFF. 108	OFFICE SPACE	150	125	0.06	1.0	5	13	0.8	17	0.12	0	1.230	0.810	16	0
CRISIS 109	OFFICE SPACE	100	150	0.06	2.0	5	19	0.8	24	0.24	0	1.110	0.810	23	0
MS/HS CLASSROOM 110	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.810	0.810	264	0
MS/HS CLASSROOM 111	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.810	0.810	264	0
MS/HS CLASSROOM 112	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.810	0.810	264	0
CONF. 115	CONFERENCE/MEETING	100	75	0.06	4.0	5	25	0.8	32	0.32	0	1.030	0.810	31	0
MAINT. 116	OFFICE SPACE	150	150	0.06	1.0	5	14	0.8	18	0.12	0	1.230	0.810	17	0
CONF. 117	CONFERENCE/MEETING	225	125	0.06	7.0	5	43	0.8	54	0.24	0	1.110	0.810	53	0
HS CLASSROOM 201	CLASSROOM (AGES 9+)	600	450	0.12	16.0	10	214	0.8	268	0.45	0	0.900	0.810	264	0
HS CLASSROOM 202	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.810	0.810	264	0
HS CLASSROOM 203	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.810	0.810	264	0
HS CLASSROOM 204	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.810	0.810	264	0
HS CLASSROOM 205	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.810	0.810	264	0
HS CLASSROOM 206	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.810	0.810	264	0
HS CLASSROOM 207	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.810	0.810	264	0
HS CLASSROOM 208	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.810	0.810	264	0
CRISIS 209	OFFICE SPACE	200	100	0.06	2.0	5	16	0.8	20	0.1	0	1.250	0.810	20	0
CRISIS 210	OFFICE SPACE	125	125	0.06	2.0	5	18	0.8	23	0.19	0	1.160	0.810	22	0
SEC. 212	OFFICE SPACE	125	275	0.06	2.0	5	27	0.8	34	0.28	0	1.070	0.810	33	0
OFF. 213	OFFICE SPACE	150	200	0.06	1.0	5	17	0.8	22	0.15	0	1.200	0.810	21	0
OFF. 214	OFFICE SPACE	150	125	0.06	1.0	5	13	0.8	17	0.12	0	1.230	0.810	16	0
OFF. 215	OFFICE SPACE	150	125	0.06	1.0	5	13	0.8	17	0.12	0	1.230	0.810	16	0
OFF. 216	OFFICE SPACE	150	125	0.06	1.0	5	13	0.8	17	0.12	0	1.230	0.810	16	0
	TOTAL CFM AT MAX:	9600				Vou = ∑(Az*Ra) + ∑(Pz * Rp) =	3315	Xs = Vou/Vps =	0.35				OA IN SYSTEM:	4093	

NOTE: DESIGN VAV MAXIMUM POSITIONS BASED ON SCHEDULE ABOVE. SCHEDULE MAXIMUM POSISTIONS TO SUPERCEDE POSITIONS SHOWN ON DRAWINGS.

VENTILATION CALCULATIONS AT VAV MINIMUM POSITION - AC/1

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	Vpz MINIMUM SUPPLY AIR (CFM)	Az ROOM AREA (SQ.FT.)	Ra AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	Pz ZONE POPULATION (OCCUPANTS)	Rp PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	Vbz BREATHING ZONE OUTDOOR AIR (CFM) (Vbz = Rp x Pz + Ra x Az)	Ez ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	Voz SPACE OUTDOOR AIR (CFM) (Voz = Vbz / Ez)	Zp PRIMARY OUTDOOR AIR FRACTION (Voz/Vpz)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	Evz ZONE VENTILATION EFFICIENCY (1+Xs-Zp)	Ev SYSTEM VENTILATION EFFICIENCY (LOWEST Evz)	Vot OUTDOOR-AIR INTAKE FLOW (CFM) (Vot = Vou / Ev)	MINIMUM EXHAUST AIR FLOW RATE (Az×E=CFM)
CLASSROOM/DAY STUDENT LL03	CLASSROOM (AGES 9+)	400	475	0.12	17.0	10	227	0.8	284	0.71	0	0.820	0.760	299	0
K-6 ELEMENTARY CLASSSROOM LL06	CLASSROOM (AGES 9+)	650	800	0.12	28.0	10	376	0.8	470	0.73	0	0.800	0.760	495	0
HOME ECON. LL07	CLASSROOM (AGES 9+)	500	650	0.12	23.0	10	308	0.8	385	0.77	0	0.760	0.760	405	0
CLASSROOM LL08	CLASSROOM (AGES 9+)	650	800	0.12	28.0	10	376	0.8	470	0.73	0	0.800	0.760	495	0
CRISIS LL11	OFFICE SPACE	50	100	0.06	2.0	5	16	0.8	20	0.4	0	1.130	0.760	21	0
CRISIS LL12	OFFICE SPACE	50	100	0.06	2.0	5	16	0.8	20	0.4	0	1.130	0.760	21	0
STORAGE LL18	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	25	100	0.06	1.0	5	11	0.8	14	0.56	0	0.970	0.760	14	0
OFFICE LL19A	OFFICE SPACE	50	100	0.06	1.0	5	11	0.8	14	0.28	0	1.250	0.760	14	0
OFFICE LL19A	OFFICE SPACE	50	100	0.06	1.0	5	11	0.8	14	0.28	0	1.250	0.760	14	0
COMPUTER LL19	COMPUTER LAB	500	500	0.12	13.0	10	190	0.8	238	0.48	0	1.050	0.760	250	0
COMPUTER LL20	COMPUTER LAB	500	500	0.12	13.0	10	190	0.8	238	0.48	0	1.050	0.760	250	0
OFFICE LL21	OFFICE SPACE	50	100	0.06	1.0	5	11	0.8	14	0.28	0	1.250	0.760	14	0
CLASSROOM/SPEECH LL22	CLASSROOM (AGES 9+)	400	475	0.12	17.0	10	227	0.8	284	0.71	0	0.820	0.760	299	0
K-6 ELEMENTARY CLASSROOM LL22A	CLASSROOM (AGES 9+)	375	475	0.12	17.0	10	227	0.8	284	0.76	0	0.770	0.760	299	0
ART LL25	ART CLASSROOM	500	775	0.18	16.0	10	300	0.8	375	0.75	0.7	0.780	0.760	395	543
ZONE SEC. LL26	OFFICE SPACE	50	150	0.06	1.0	5	14	0.8	18	0.36	0	1.170	0.760	18	0
PRINCIP. LL27	OFFICE SPACE	100	150	0.06	1.0	5	14	0.8	18	0.18	0	1.350	0.760	18	0
K-6 ELEMENTARY CLASSSROOM LL31	CLASSROOM (AGES 9+)	600	775	0.12	28.0	10	373	0.8	467	0.78	0	0.750	0.760	491	0
K-6 ELEMENTARY CLASSROOM LL34	CLASSROOM (AGES 9+)	450	450	0.12	16.0	10	214	0.8	268	0.6	0	0.930	0.760	282	0
	TOTAL CFM AT MIN:	5950				Vou = ∑(Az*Ra) + ∑(Pz * Rp) =	3112	Xs = Vou/Vps =	0.53				OA IN SYSTEM:	4095	

NOTE: DESIGN VAV MINIMUM POSITIONS BASED ON SCHEDULE ABOVE. SCHEDULE MINIMUM POSISTIONS TO SUPERCEDE POSITIONS SHOWN ON DRAWINGS.

VENTILATION CALCULATIONS AT VAV MAXIMUM POSITION - AC/1

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	Vpz MAXIMUM SUPPLY AIR (CFM)	Az ROOM AREA (SQ.FT.)	Ra AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	Pz ZONE POPULATION (OCCUPANTS)	Rp PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	Vbz BREATHING ZONE OUTDOOR AIR (CFM) (Vbz = Rp x Pz + Ra x Az)	Ez ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	Voz SPACE OUTDOOR AIR (CFM) (Voz = Vbz / Ez)	Zp PRIMARY OUTDOOR AIR FRACTION (Voz/Vpz)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	Evz ZONE VENTILATION EFFICIENCY (1+Xs-Zp)	Ev SYSTEM VENTILATION EFFICIENCY (LOWEST Evz)	Vot OUTDOOR-AIR INTAKE FLOW (CFM) (Vot = Vou / Ev)	MINIMUM EXHAUST AIR FLOW RATE (Az×E=CFM)
CLASSROOM/DAY STUDENT LL03	CLASSROOM (AGES 9+)	500	475	0.12	17.0	10	227	0.8	284	0.57	0	0.840	0.760	299	0
K-6 ELEMENTARY CLASSSROOM LL06	CLASSROOM (AGES 9+)	750	800	0.12	28.0	10	376	0.8	470	0.63	0	0.780	0.760	495	0
HOME ECON. LL07	CLASSROOM (AGES 9+)	600	650	0.12	23.0	10	308	0.8	385	0.65	0	0.760	0.760	405	0
CLASSROOM LL08	CLASSROOM (AGES 9+)	750	800	0.12	28.0	10	376	0.8	470	0.63	0	0.780	0.760	495	0
CRISIS LL11	OFFICE SPACE	100	100	0.06	1.0	5	11	0.8	14	0.14	0	1.270	0.760	14	0
CRISIS LL12	OFFICE SPACE	75	100	0.06	1.0	5	11	0.8	14	0.19	0	1.220	0.760	14	0
STORAGE LL18	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	50	100	0.06	1.0	5	11	0.8	14	0.28	0	1.130	0.760	14	0
OFFICE LL19A	OFFICE SPACE	75	100	0.06	1.0	5	11	0.8	14	0.19	0	1.220	0.760	14	0
OFFICE LL19A	OFFICE SPACE	75	100	0.06	1.0	5	11	0.8	14	0.19	0	1.220	0.760	14	0
COMPUTER LL19	COMPUTER LAB	725	500	0.12	13.0	10	190	0.8	238	0.33	0	1.080	0.760	250	0
COMPUTER LL20	COMPUTER LAB	725	500	0.12	13.0	10	190	0.8	238	0.33	0	1.080	0.760	250	0
OFFICE LL21	OFFICE SPACE	75	100	0.06	1.0	5	11	0.8	14	0.19	0	1.220	0.760	14	0
CLASSROOM/SPEECH LL22	CLASSROOM (AGES 9+)	475	475	0.12	17.0	10	227	0.8	284	0.6	0	0.810	0.760	299	0
K-6 ELEMENTARY CLASSROOM LL22A	CLASSROOM (AGES 9+)	450	475	0.12	17.0	10	227	0.8	284	0.64	0	0.770	0.760	299	0
ART LL25	ART CLASSROOM	750	775	0.18	16.0	10	300	0.8	375	0.5	0.7	0.910	0.760	395	543
ZONE SEC. LL26	OFFICE SPACE	75	150	0.06	1.0	5	14	0.8	18	0.24	0	1.170	0.760	18	0
PRINCIP. LL27	OFFICE SPACE	175	150	0.06	1.0	5	14	0.8	18	0.11	0	1.300	0.760	18	0
K-6 ELEMENTARY CLASSSROOM LL31	CLASSROOM (AGES 9+)	750	775	0.12	28.0	10	373	0.8	467	0.63	0	0.780	0.760	491	0
K-6 ELEMENTARY CLASSROOM LL34	CLASSROOM (AGES 9+)	550	450	0.12	16.0	10	214	0.8	268	0.49	0	0.920	0.760	282	0
	TOTAL CFM AT MAX:	7725				Vou = ∑(Az*Ra) + ∑(Pz * Rp) =	3102	Xs = Vou/Vps =	0.41				OA IN SYSTEM:	4082	

NOTE: DESIGN VAV MAXIMUM POSITIONS BASED ON SCHEDULE ABOVE. SCHEDULE MAXIMUM POSISTIONS TO SUPERCEDE POSITIONS SHOWN ON DRAWINGS.

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

BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

1 Echo Hill Drive - Building #36
Dobbs Ferry, NY 10522

KG+D listen imagine build
KG+D ARCHITECTS, PC
285 MAIN STREET• MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

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39 MARBLE AVE PLEASANTVILLE, NY 10570
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Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2019	SED ISSUE

Sheet Title
VENTILATION SCHEDULES

Job No.	Date
2019-1029	01/17/2019
Scale: AS NOTED	Drawn / Checked: BGA/BGA

Sheet Number
H302

VENTILATION CALCULATIONS AT VAV MINIMUM POSITION - AHU/2

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	Vpz MINIMUM SUPPLY AIR (CFM)	Az ROOM AREA (SQ.FT.)	Ra AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	Pz ZONE POPULATION (OCCUPANTS)	Rp PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	Vbz BREATHING ZONE OUTDOOR AIR (CFM) (Vbz = Rp x Pz + Ra x Az)	Ez ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	Voz SPACE OUTDOOR AIR (CFM) (Voz = Vbz / Ez)	Zp PRIMARY OUTDOOR AIR FRACTION (Voz/Vpz)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	Evz ZONE VENTILATION EFFICIENCY (1+Xs-Zp)	Ev SYSTEM VENTILATION EFFICIENCY (MINIMUM Evz)	Vot OUTDOOR-AIR INTAKE FLOW (CFM) (Vot = Vou / Ev)	MINIMUM EXHAUST AIR FLOW RATE (Az×E=CFM)
STORAGE LL51	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	250	375	0.06	1.0	5	28	0.8	35	0.14	0	1.290	0.760	37	0
CONF. LL52	CONFERENCE/MEETING	400	500	0.06	25.0	5	155	0.8	194	0.49	0	0.940	0.760	204	0
STOR LL53	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	75	250	0.06	1.0	5	20	0.8	25	0.34	0	1.090	0.760	26	0
PRAC. LL57	CLASSROOM (AGES 9+)	75	75	0.12	3.0	10	39	0.8	49	0.66	0	0.770	0.760	51	0
MUSIC LL58	CLASSROOM (AGES 9+)	450	500	0.12	18.0	10	240	0.8	300	0.67	0	0.760	0.760	316	0
CLASS. LL59	CLASSROOM (AGES 9+)	450	500	0.12	18.0	10	240	0.8	300	0.67	0	0.760	0.760	316	0
OFF. LL60	OFFICE SPACE	75	75	0.06	1.0	5	10	0.8	13	0.18	0	1.250	0.760	13	0
STOR. LL62	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	75	75	0.06	1.0	5	10	0.8	13	0.18	0	1.250	0.760	13	0
CLASS LL63	CLASSROOM (AGES 9+)	450	500	0.12	18.0	10	240	0.8	300	0.67	0	0.760	0.760	316	0
PRAC LL66	CLASSROOM (AGES 9+)	100	75	0.12	3.0	10	39	0.8	49	0.49	0	0.940	0.760	51	0
	TOTAL CFM AT MIN:	2400				Vou = ∑(Az*Ra) + ∑(Pz * Rp) =	1021	Xs = Vou/Vps =	0.43				OA IN SYSTEM:	1343	

NOTE: DESIGN VAV MINIMUM POSITIONS BASED ON SCHEDULE ABOVE. SCHEDULE MINIMUM POSISTIONS TO SUPERCEDE POSITIONS SHOWN ON DRAWINGS.

VENTILATION CALCULATIONS AT VAV MAXIMUM POSITION - AHU/2

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	Vpz MAXIMUM SUPPLY AIR (CFM)	Az ROOM AREA (SQ.FT.)	Ra AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	Pz ZONE POPULATION (OCCUPANTS)	Rp PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	Vbz BREATHING ZONE OUTDOOR AIR (CFM) (Vbz = Rp x Pz + Ra x Az)	Ez ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	Voz SPACE OUTDOOR AIR (CFM) (Voz = Vbz / Ez)	Zp PRIMARY OUTDOOR AIR FRACTION (Voz/Vpz)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	Evz SPACE VENTILATION EFFICIENCY (1+Xs-Zp)	Ev ZONE VENTILATION EFFICIENCY (MINIMUM Evz)	Vot OUTDOOR-AIR INTAKE FLOW (CFM) (Vot = Vou / Ev)	MINIMUM EXHAUST AIR FLOW RATE (Az×E=CFM)
STORAGE LL51	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	450	375	0.06	1.0	5	28	0.8	35	0.08	0	1.200	0.810	35	0
CONF. LL52	CONFERENCE/MEETING	650	500	0.06	25.0	5	155	0.8	194	0.3	0	0.980	0.810	191	0
STOR LL53	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	150	250	0.06	1.0	5	20	0.8	25	0.17	0	1.110	0.810	25	0
PRAC. LL57	CLASSROOM (AGES 9+)	125	75	0.12	3.0	10	39	0.8	49	0.4	0	0.880	0.810	48	0
MUSIC LL58	CLASSROOM (AGES 9+)	650	500	0.12	18.0	10	240	0.8	300	0.47	0	0.810	0.810	296	0
CLASS. LL59	CLASSROOM (AGES 9+)	650	500	0.12	18.0	10	240	0.8	300	0.47	0	0.810	0.810	296	0
OFF. LL60	OFFICE SPACE	125	75	0.06	1.0	5	10	0.8	13	0.11	0	1.170	0.810	12	0
STOR. LL62	OCCUPIABLE STORAGE ROOMS FOR DRY MATERIALS	125	75	0.06	1.0	5	10	0.8	13	0.11	0	1.170	0.810	12	0
CLASS LL63	CLASSROOM (AGES 9+)	650	500	0.12	18.0	10	240	0.8	300	0.47	0	0.810	0.810	296	0
PRAC LL66	CLASSROOM (AGES 9+)	125	75	0.12	3.0	10	39	0.8	49	0.4	0	0.880	0.810	48	0
	TOTAL CFM AT MAX:	3700				Vou = ∑(Az*Ra) + ∑(Pz * Rp) =	1021	Xs = Vou/Vps =	0.28				OA IN SYSTEM:	1260	

NOTE: DESIGN VAV MAXIMUM POSITIONS BASED ON SCHEDULE ABOVE. SCHEDULE MAXIMUM POSISTIONS TO SUPERCEDE POSITIONS SHOWN ON DRAWINGS.

VENTILATION CALCULATIONS AT VAV MINIMUM POSITION - AC/3

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	Vpz MINIMUM SUPPLY AIR (CFM)	Az ROOM AREA (SQ.FT.)	Ra AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	Pz ZONE POPULATION (OCCUPANTS)	Rp PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	Vbz BREATHING ZONE OUTDOOR AIR (CFM) (Vbz = Rp x Pz + Ra x Az)	Ez ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	Voz SPACE OUTDOOR AIR (CFM) (Voz = Vbz / Ez)	Zp PRIMARY OUTDOOR AIR FRACTION (Voz/Vpz)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	Evz ZONE VENTILATION EFFICIENCY (1+Xs-Zp)	Ev SYSTEM VENTILATION EFFICIENCY (MINIMUM Evz)	Vot OUTDOOR-AIR INTAKE FLOW (CFM) (Vot = Vou / Ev)	MINIMUM EXHAUST AIR FLOW RATE (Az×E=CFM)
LIBRARY 127	MEDIA CENTER	600	900	0.12	23.0	10	338	0.8	423	0.71	0	0.740	0.740	457	0
STOR. 128	MAIN ENTRY LOBBIES	25	100	0.06	1.0	5	11	0.8	14	0.56	0	0.890	0.740	15	0
WORK ROOM 128A	OFFICE SPACE	50	150	0.06	1.0	5	14	0.8	18	0.36	0	1.090	0.740	19	0
OFF. 129	OFFICE SPACE	75	125	0.06	1.0	5	13	0.8	17	0.23	0	1.220	0.740	18	0
HR OFFICE/ADMIN SPACE 130	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.780	0.740	289	0
SUPERINTENDENT'S OFFICE 131	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.780	0.740	289	0
MS/HS CLASSROOM 132	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.780	0.740	289	0
OFF. 135	OFFICE SPACE	150	150	0.06	1.0	5	14	0.8	18	0.12	0	1.330	0.740	19	0
OFF. 136	OFFICE SPACE	150	150	0.06	1.0	5	14	0.8	18	0.12	0	1.330	0.740	19	0
OFF. 137	OFFICE SPACE	150	150	0.06	1.0	5	14	0.8	18	0.12	0	1.330	0.740	19	0
MS/HS CLASSROOM 140	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.780	0.740	289	0
MS/HS CLASSROOM 141	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.780	0.740	289	0
MS/HS CLASSROOM 142	CLASSROOM (AGES 9+)	450	450	0.12	16.0	10	214	0.8	268	0.6	0	0.850	0.740	289	0
CONF. 220	CONFERENCE/MEETING	75	100	0.06	5.0	5	31	0.8	39	0.52	0	0.930	0.740	42	0
HS CLASSROOM 221	CLASSROOM (AGES 9+)	450	500	0.12	18.0	10	240	0.8	300	0.67	0	0.780	0.740	324	0
HS CLASSROOM 222	CLASSROOM (AGES 9+)	450	500	0.12	18.0	10	240	0.8	300	0.67	0	0.780	0.740	324	0
OFF. 223	OFFICE SPACE	25	100	0.06	1.0	5	11	0.8	14	0.56	0	0.890	0.740	15	0
HS CLASSROOM 224	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.780	0.740	289	0
HS CLASSROOM 225	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.780	0.740	289	0
HS CLASSROOM 226	CLASSROOM (AGES 9+)	400	450	0.12	16.0	10	214	0.8	268	0.67	0	0.780	0.740	289	0
OFF. 229	OFFICE SPACE	75	14	0.06	1.0	5	6	0.8	8	0.11	0	1.340	0.740	8	0
OFF. 230	OFFICE SPACE	75	14	0.06	1.0	5	6	0.8	8	0.11	0	1.340	0.740	8	0
OFF. 231	OFFICE SPACE	75	14	0.06	1.0	5	6	0.8	8	0.11	0	1.340	0.740	8	0
HS CLASSROOM 234	CLASSROOM (AGES 9+)	400	214	0.12	8.0	10	106	0.8	133	0.34	0	1.110	0.740	143	0
HS CLASSROOM 235	CLASSROOM (AGES 9+)	400	214	0.12	8.0	10	106	0.8	133	0.34	0	1.110	0.740	143	0
HS CLASSROOM 236	CLASSROOM (AGES 9+)	450	268	0.12	10.0	10	133	0.8	167	0.38	0	1.070	0.740	180	0
	TOTAL CFM AT MIN:	7325				Vou = ∑(Az*Ra) + ∑(Pz * Rp) =	3229	Xs = Vou/Vps =	0.45				OA IN SYSTEM:	4364	

NOTE: DESIGN VAV MINIMUM POSITIONS BASED ON SCHEDULE ABOVE. SCHEDULE MINIMUM POSISTIONS TO SUPERCEDE POSITIONS SHOWN ON DRAWINGS.

VENTILATION CALCULATIONS AT VAV MAXIMUM POSITION - AC/3

ROOM NAME/NUMBER	OCCUPANCY CATEGORY	Vpz MAXIMUM SUPPLY AIR (CFM)	Az ROOM AREA (SQ.FT.)	Ra AREA OUTDOOR AIR FLOW RATE IN BREATHING ZONE (CFM/SQ.FT.)	Pz ZONE POPULATION (OCCUPANTS)	Rp PEOPLE OUTDOOR AIR FLOW RATE (CFM/PERSON)	Vbz BREATHING ZONE OUTDOOR AIR (CFM) (Vbz = Rp x Pz + Ra x Az)	Ez ZONE AIR DISTRIBUTION EFFECTIVENESS FACTOR	Voz SPACE OUTDOOR AIR (CFM) (Voz = Vbz / Ez)	Zp PRIMARY OUTDOOR AIR FRACTION (Voz/Vpz)	E EXHAUST AIR FLOW RATE (CFM/SQ.FT.)	Evz SPACE VENTILATION EFFICIENCY (1+Xs-Zp)	Ev SYSTEM VENTILATION EFFICIENCY (MINIMUM Evz)	Vot OUTDOOR-AIR INTAKE FLOW (CFM) (Vot = Vou / Ev)	MINIMUM EXHAUST AIR FLOW RATE (Az×E=CFM)
LIBRARY 127	MEDIA CENTER	700	900	0.12	23.0	10	338	0.8	423	0.61	0	0.710	0.710	476	0
STOR. 128	MAIN ENTRY LOBBIES	50	100	0.06	1.0	5	11	0.8	14	0.28	0	1.040	0.710	15	0
WORK ROOM 128A	OFFICE SPACE	75	150	0.06	1.0	5	14	0.8	18	0.24	0	1.080	0.710	20	0
OFF. 129	OFFICE SPACE	175	125	0.06	1.0	5	13	0.8	17	0.1	0	1.220	0.710	18	0
HR OFFICE/ADMIN SPACE 130	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.780	0.710	301	0
SUPERINTENDENT'S OFFICE 131	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.780	0.710	301	0
MS/HS CLASSROOM 132	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.780	0.710	301	0
OFF. 135	OFFICE SPACE	200	150	0.06	1.0	5	14	0.8	18	0.09	0	1.230	0.710	20	0
OFF. 136	OFFICE SPACE	200	150	0.06	1.0	5	14	0.8	18	0.09	0	1.230	0.710	20	0
OFF. 137	OFFICE SPACE	200	150	0.06	1.0	5	14	0.8	18	0.09	0	1.230	0.710	20	0
MS/HS CLASSROOM 140	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.780	0.710	301	0
MS/HS CLASSROOM 141	CLASSROOM (AGES 9+)	500	450	0.12	16.0	10	214	0.8	268	0.54	0	0.780	0.710	301	0
MS/HS CLASSROOM 142	CLASSROOM (AGES 9+)	600	450	0.12	16.0	10	214	0.8	268	0.45	0	0.870	0.710	301	0
CONF. 220	CONFERENCE/MEETING	125	100	0.06	5.0	5	31	0.8	39	0.32	0	1.000	0.710	44	0
HS CLASSROOM 221	CLASSROOM (AGES 9+)	600	500	0.12	18.0	10	240	0.8	300	0.5	0	0.820	0.710	338	0
HS CLASSROOM 222	CLASSROOM (AGES 9+)	600	500	0.12	18.0	10	240	0.8	300	0.5	0	0.820	0.710	338	0
OFF. 223	OFFICE SPACE	50	100	0.06	1.0	5	11	0.8	14	0.28	0	1.040	0.710	15	0
HS CLASSROOM 224	CLASSROOM (AGES 9+)	600	450	0.12	16.0	10	214	0.8	268	0.45	0	0.870	0.710	301	0
HS CLASSROOM 225	CLASSROOM (AGES 9+)	600	450	0.12	16.0	10	214	0.8	268	0.45	0	0.870	0.710	301	0
HS CLASSROOM 226	CLASSROOM (AGES 9+)	600	450	0.12	16.0	10	214	0.8	268	0.45	0	0.870	0.710	301	0
OFF. 229	OFFICE SPACE	200	14	0.06	1.0	5	6	0.8	8	0.04	0	1.280	0.710	8	0
OFF. 230	OFFICE SPACE	200	14	0.06	1.0	5	6	0.8	8	0.04	0	1.280	0.710	8	0
OFF. 231	OFFICE SPACE	200	14	0.06	1.0	5	6	0.8	8	0.04	0	1.280	0.710	8	0
HS CLASSROOM 234	CLASSROOM (AGES 9+)	600	214	0.12	8.0	10	106	0.8	133	0.23	0	1.090	0.710	149	0
HS CLASSROOM 235	CLASSROOM (AGES 9+)	600	214	0.12	8.0	10	106	0.8	133	0.23	0	1.090	0.710	149	0
HS CLASSROOM 236	CLASSROOM (AGES 9+)	600	268	0.12	10.0	10	133	0.8	167	0.28	0	1.040	0.710	187	0
	TOTAL CFM AT MAX:	10275				Vou = ∑(Az*Ra) + ∑(Pz * Rp) =	3229	Xs = Vou/Vps =	0.32				OA IN SYSTEM:	4548	

NOTE: DESIGN VAV MAXIMUM POSITIONS BASED ON SCHEDULE ABOVE. SCHEDULE MAXIMUM POSISTIONS TO SUPERCEDE POSITIONS SHOWN ON DRAWINGS.

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

BETHUNE LEARNING CENTER

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NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

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Key Plan

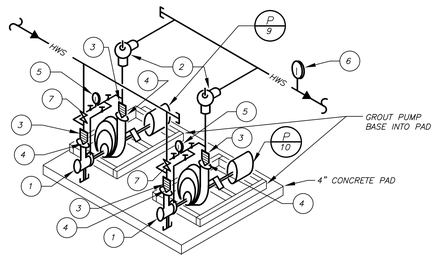
Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2019	SED ISSUE

Sheet Title
VENTILATION SCHEDULES

Job No.	Date
2019-1029	01/17/2019
Scale: AS NOTED	Drawn / Checked: BGA/BGA

Sheet Number
H303

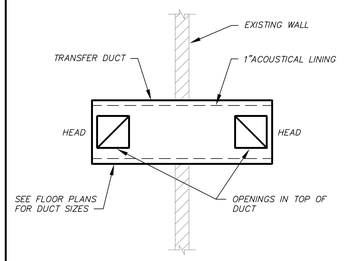


LIST OF APPURTENANCES

MARK	DESCRIPTION
1	SUCTION DIFFUSER
2	TRIPLE DUTY VALVE (SOFT SEAT)
3	FLEXIBLE CONNECTION
4	CONCENTRIC REDUCER/INCREASER
5	DIFFERENTIAL PRESSURE GAUGE (WITH SHUT-OFF COCKS)
6	THERMOMETER
7	GATE VALVE

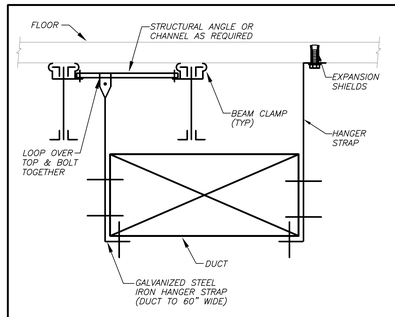
PUMP STATION PIPING SCHEMATIC

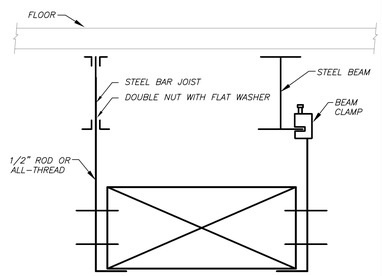
9 / H401 — NO SCALE



TRANSFER DUCT DETAIL

5 / H401 — NO SCALE

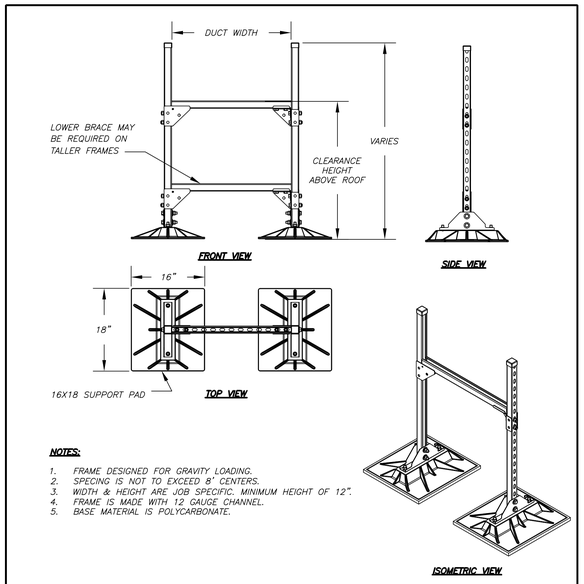




HANGER STRAP TABLE	
DUCT SIZE	METAL GAUGE
UPTO 2 SQFT.	20 GA. GALV.
UPTO 4 SQFT.	16 GA. GALV.
UPTO 6 SQFT.	12 GA. GALV.
UPTO 8 SQFT.	1/16" GALV.
OVER 8 SQFT.	SEE SMACNA GUIDELINE

DUCT SUPPORT DETAIL

1 / H401 — NO SCALE

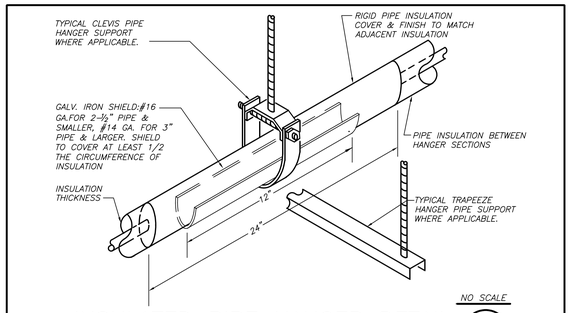


NOTES:

1. FRAME DESIGNED FOR GRAVITY LOADING.
2. SPECING IS NOT TO EXCEED 8' CENTERS.
3. WIDTH & HEIGHT ARE JOB SPECIFIC. MINIMUM HEIGHT OF 12".
4. FRAME IS MADE WITH 12 GAUGE CHANNEL.
5. BASE MATERIAL IS POLYCARBONATE.

ROOF DUCT SUPPORT DETAIL

10 / H401 — NO SCALE



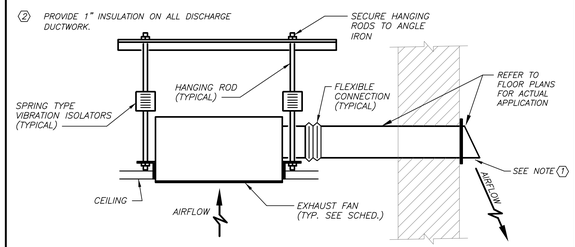
NO SCALE

INSULATED PIPE HANGER DETAIL

6 / H401

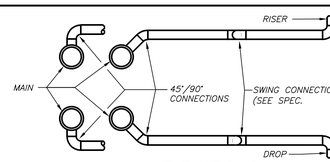
NOTES:

1. TURN WALL DISCHARGE CAPS OVER TO C.C. FOR INSTALLATION.
2. PROVIDE 1" INSULATION ON ALL DISCHARGE DUCTWORK.

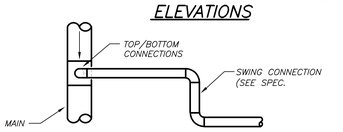


TYPICAL TOILET EXHAUST FAN DETAIL

2 / H401 — NO SCALE



ELEVATIONS

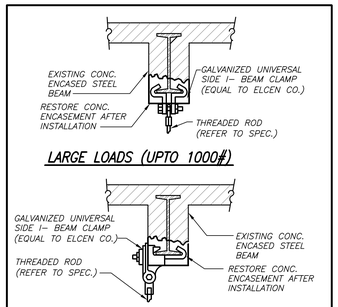


PLAN

NO SCALE

DETAIL OF HW PIPING BRANCH CONNECTION

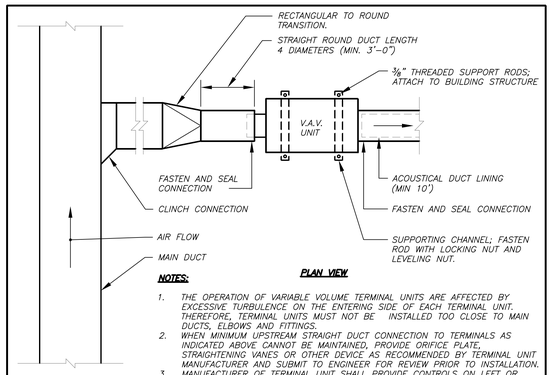
7 / H401



NO SCALE

PIPE HANGER SUPPORT DETAIL

8 / H401



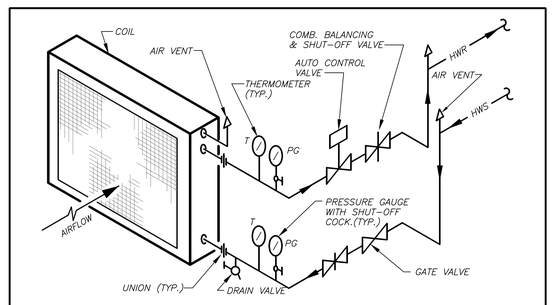
PLAN VIEW

NOTES:

1. THE OPERATION OF VARIABLE VOLUME TERMINAL UNITS ARE AFFECTED BY EXCESSIVE TURBULENCE ON THE ENTERING SIDE OF EACH TERMINAL UNIT. THEREFORE, TERMINAL UNITS MUST NOT BE INSTALLED TOO CLOSE TO MAIN DUCTS, ELBOWS AND FITTINGS.
2. WHEN MINIMUM UPSTREAM STRAIGHT DUCT CONNECTION TO TERMINALS AS INDICATED ABOVE CANNOT BE MAINTAINED, PROVIDE ORIFICE PLATE, STRAIGHTENING VANES OR OTHER DEVICE AS RECOMMENDED BY TERMINAL UNIT MANUFACTURER AND SUBMIT TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
3. MANUFACTURER OF TERMINAL UNIT SHALL PROVIDE CONTROLS ON LEFT OR RIGHT SIDE AS REQUIRED BY FIELD CONDITIONS.
4. ARRANGE ACCESS TO PERMIT EASY FIELD BALANCE AND MAINTENANCE OF TERMINAL UNIT.

TERMINAL UNIT INSTALLATION

3 / H401 — NO SCALE



TYPICAL HOT WATER COIL CONNECTION DETAIL

4 / H401 — NO SCALE

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

BETHUNE LEARNING CENTER

Alterations

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NY SED PROJECT CONTROL NO.
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Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2019	SED ISSUE

Sheet Title

DETAILS

Job No.	Date
2019-1029	01/17/2019
Scale	Drawn / Checked
AS NOTED	BGA/BGA

Sheet Number

H401

GENERAL NOTES

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

GENERAL REMOVAL NOTES

1. BEFORE COMMENCING WORK, EXAMINE ALL ADJOINING AREAS THAT MAY BE AFFECTED BY REMOVAL. REPORT TO THE CONSTRUCTION MANAGER ANY CONDITION THAT PREVENTS PERFORMANCE OF THE WORK.
2. BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS WHERE CONNECTIONS MUST BE MADE, CHANGED OR ALTERED. THE INTENT OF THE WORK IS SHOWN ON THE DRAWINGS AND DESCRIBED HEREINAFTER AND NO CONSIDERATION WILL BE GRANTED BY REASON OF LACK OF FAMILIARITY ON THE PART OF THE CONTRACTOR WITH ACTUAL PHYSICAL CONDITIONS AT THE SITE. INSPECT EACH AND EVERY AREA AFFECTED BY THE ALTERATION OF THE SPACE BEFORE SUBMITTAL OF BID.
3. ALL ELECTRICAL EQUIPMENT DESIGNATED WITH (R) IS EXISTING TO BE REMOVED UNLESS OTHERWISE NOTED. THIS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   A. LIGHTING FIXTURES AND SWITCHES.
   B. CIRCUIT BREAKERS AND DISCONNECT SWITCHES.
   C. RECEPTACLES, OUTLETS AND DEVICES.
   D. FIRE ALARM EQUIPMENT AND DEVICES.
   E. PANELBOARDS.
   F. PUBLIC ADDRESS DEVICES.
4. ALL CONDUCTORS AND CONDUIT ASSOCIATED WITH THE ELECTRICAL EQUIPMENT SHALL BE REMOVED COMPLETELY BACK TO ITS SOURCE OF POWER AND DISCONNECTED UNLESS OTHERWISE NOTED.
5. ALL POWER CONDUCTORS, CONTROL WIRING AND CONDUIT ASSOCIATED WITH MECHANICAL EQUIPMENT SUCH AS FANS, AIR CONDITIONING UNITS, PUMPS, ETC. DESIGNATED FOR REMOVAL ON THE HVAC AND PLUMBING REMOVAL DRAWINGS SHALL BE REMOVED CLEAR BACK TO THE SOURCE OF POWER AND DISCONNECTED. ALL MOTOR STARTERS, DISCONNECT SWITCHES, CONTROL DEVICES, ETC. SHALL BE REMOVED. REFER TO MECHANICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.
6. CIRCUIT BREAKERS AND/OR SWITCHES IN PANELBOARD(S) OR DISTRIBUTION BOARD(S) MADE SPARE DUE TO REMOVAL SHALL BE DESIGNATED AS SUCH ON THE EQUIPMENT SCHEDULE.
7. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO TRACE AND RELOCATE ALL EXISTING FEEDERS AND BRANCH CIRCUIT WIRING WHICH PASSES THROUGH THE REMOVAL AREA THAT SERVE EXISTING OCCUPIED SPACES TO REMAIN. COORDINATE WITH CONSTRUCTION MANAGER PRIOR TO ANY SHUTDOWNS OR DISRUPTIONS THAT MAY BE REQUIRED TO ACCOMPLISH THIS WORK.
8. DISPOSE OF ALL REMOVED EQUIPMENT, WHICH IS NOT INTENDED TO BE REUSED. PRIOR TO DISPOSAL, CONTACT CONSTRUCTION MANAGER TO DETERMINE IF ANY REMOVED EQUIPMENT IS DESIRED FOR STOCK.
9. EXISTING EQUIPMENT DESIGNATED FOR REUSE SHALL BE CLEANED, REFURBISHED AND RESTORED TO OPTIMUM PERFORMANCE. THIS SHALL INCLUDE BUT NOT LIMITED TO CLEANING OF LIGHT FIXTURES, REPLACEMENT OF INOPERABLE BALLASTS AND LAMPS, RESISTANCE TESTING OF BRANCH CIRCUITRY AND FEEDERS, ETC.
10. EXTEND EXISTING CIRCUITRY TO THOSE DEVICES THAT ARE TO BE RELOCATED. MATCH EXISTING TYPE AND SIZE. RELOCATION OF EXISTING EQUIPMENT SHALL BE PERFORMED ONLY UPON CONSTRUCTION MANAGERS ACCEPTANCE OF EXISTING EQUIPMENT.
11. ELECTRICAL CONTRACTOR SHALL MAINTAIN CONTINUITY OF CIRCUIT FOR EXISTING EQUIPMENT AND DEVICES THAT ARE TO REMAIN. WHERE OUTLETS ARE REMOVED AND NOT AT THE CIRCUIT END, EXTEND CIRCUITRY AS REQUIRED TO MAINTAIN INTEGRITY OF ORIGINAL CIRCUIT. WHERE A WIRING DEVICE IS TO BE REMOVED AND WALL OR CEILING IS TO REMAIN, THE ELECTRICAL CONTRACTOR SHALL REMOVE BRANCH CIRCUITRY FROM ITS SOURCE AND FILL IN OUTLET BOX. BLANK PLATES WILL BE PERMITTED.
12. EXISTING CIRCUIT BREAKERS IN PANEL(S) ARE TO BE RE-USED. ELECTRICAL CONTRACTOR TO DISCONNECT PANEL AND CIRCUIT BREAKERS WITH GREAT CARE TO ENSURE AGAINST DAMAGE. THIS CONTRACTOR SHALL PROVIDE NEW CIRCUIT BREAKERS AS REQUIRED.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ADDITIONAL DEVICES NOT IDENTIFIED ON THIS DRAWING DUE TO FURNITURE AND/OR EQUIPMENT CONCEALMENT.
14. EXTEND EXISTING CIRCUITRY TO THOSE DEVICES THAT ARE TO BE RELOCATED. MATCH EXISTING TYPE AND SIZE. RELOCATION OF EXISTING EQUIPMENT SHALL BE PERFORMED ONLY UPON CONSTRUCTION MANAGERS ACCEPTANCE OF EXISTING EQUIPMENT.
15. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING ALL EXISTING DATA WIRING AS CEILINGS AND WALLS ARE BEING REMOVED. ANY DAMAGED WIRING IS TO BE REPLACED IN KIND.
16. FOR ALL LOCATIONS WHERE DEVICES (RECEPTACLES, SWITCHES, FIRE ALARM DEVICES, P.A. DEVICES, CLOCKS, ETC.) ARE REMOVED AND EXISTING BACKBOXES AND JUNCTION BOXES ARE REQUIRED TO REMAIN ON WALL AND CAN NOT BE PATCHED, PROVIDE BLANK STAINLESS STEEL COVER PLATE SIZED AS REQUIRED TO PROPERLY COVER OPENING.

DISPOSAL OF MERCURY CONTAINING LAMPS

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

LEGEND

(F)	WALL MOUNTED COMBINATION FIRE ALARM HORN/STROBE DEVICE.
(S)	WALL MOUNTED COMBINATION FIRE ALARM SPEAKER/STROBE DEVICE.
F	WALL MOUNTED FIRE ALARM MANUAL PULL STATION
ST	WALL MOUNTED FIRE ALARM STROBE LIGHT.
FSD	FIRE/SMOKE MOTORIZED DAMPER PROVIDED BY OTHERS AND WIRED BY E.C.. E.C. SHALL PROVIDE RELAY'S AND DRY CONTACTS FOR FIRE ALARM MONITORING/INTERFACE/DAMPER CONTROL, PROVIDE ALL WIRING AS REQUIRED.
(S)	CEILING MOUNTED IONIZATION TYPE SMOKE DETECTOR
(H)	CEILING MOUNTED HEAT DETECTOR
(C)	CEILING MOUNTED CARBON MONOXIDE DETECTOR
(C)/(C)	CEILING OR WALL MOUNTED CARBON MONOXIDE DETECTOR
(G)/(C)	CEILING OR WALL MOUNTED GAS LEAK DETECTOR
(S)D	DUCT MOUNTED PHOTOELECTRIC TYPE SMOKE DETECTOR WITH (REMOTE) CONTROL RELAY MODULE FOR FAN SHUT DOWN. RELAY MODULE TO BE MOUNTED ADJACENT TO MECHANICAL EQUIPMENT. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT/STARTERS DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN SHUTDOWN.
(S)D	DUCT MOUNTED PHOTOELECTRIC TYPE SMOKE DETECTOR WITH REMOTE MOUNTED L.E.D. AND TEST BUTTON. MOUNT L.E.D. & TEST BUTTON UNDER SINGLE COVER PLATE ON CEILING. (TYP. U.O.N.). PROVIDE (REMOTE) CONTROL RELAY MODULE FOR FAN SHUT DOWN. RELAY MODULE TO BE MOUNTED ADJACENT TO MECHANICAL EQUIPMENT. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT /STARTER DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN SHUTDOWN.
FACP	FIRE ALARM CONTROL PANEL.
ANN	FIRE ALARM ALPHANUMERIC ANNUNCIATOR PANEL.
MH	ELECTROMAGNETIC DOOR HOLDER.
IM	INTERFACE MODULE CONSISTING OF CONTROL RELAY AND MONITOR MODULES. IN NEMA 1 ENCLOSURE. ALSO PROVIDE LOAD RELAY AS REQUIRED IF EXISTING DISCONNECT/STARTERS DO NOT HAVE A SET OF DRY CONTACTS TO TIE-IN FOR FAN SHUTDOWN.
(C)	CLOSED CIRCUIT TELEVISION CAMERA (CCTV).
(S)	PUBLIC ADDRESS SPEAKER
(T)	TAG SYMBOL. NUMERAL DENOTES REFERENCE TO A WORK NOTE.
FE / SF	MECHANICAL EQUIPMENT IDENTIFICATION: EQUIPMENT ABBREVIATION (FE, SF, HV, ETC. SEE ABBREVIATIONS ON THIS DWG.) / EQUIPMENT NUMBER
2 / 3	DETAIL/PART PLAN NUMBER IDENTIFICATION: DETAIL/PART PLAN NUMBER / DRAWING NUMBER

ABBREVIATIONS

ABBV.	DESCRIPTION
A	AMP./AMPERE
AC	AIR CONDITIONING UNIT
A.F.F.	ABOVE FINISHED FLOOR
C.B.	CIRCUIT BREAKER
CKT	CIRCUIT
CU	CONDENSING UNIT
CP	CONDENSATE PUMP
(E)	EXISTING TO REMAIN
E.C.	ELECTRICAL CONTRACTOR
EM	EMERGENCY
FA	FIRE ALARM
F.A.C.P.	FIRE ALARM CONTROL PANEL
G,GRD	GROUND
GFI	GROUND FAULT INTERRUPTER
HVAC	HEATING, VENTILATING AND AIR-CONDITIONING UNIT
KVA	KILOVOLT AMPERE
KW	KILOWATT
LTG	LIGHTING
MCB	MAIN CIRCUIT BREAKER
MDP	MAIN DISTRIBUTION PANEL
MLO	MAIN LUGS ONLY
MTD	MOUNTED
N	NEUTRAL
NTS	NOT TO SCALE
P.A.	PUBLIC ADDRESS
PNL	PANEL
(R)	REMOVE EXISTING
RECPT	RECEPTACLE
TYP.	TYPICAL
W	WATT
WP	WEATHERPROOF
(ER)	EXISTING RELOCATED
(RR)	REMOVED, SALVAGED AND RELOCATED

LEGEND

	CEILING/WALL MOUNTED EXIT LIGHT WITH OUTLET BOX, DIRECTIONAL ARROWS SHADED PORTION INDICATES ILLUMINATED FACE. SCHEDULE DENOTES TYPE.
	WALL MOUNTED EMERGENCY LIGHT FIXTURE WITH INTEGRAL BATTERY BACK-UP.
S	FLUSH WALL MOUNTED LIGHTING CONTROL TOGGLE SWITCH.
$S^{3K\,a}$	FLUSH WALL MOUNTED LIGHTING CONTROL SWITCH CONTROLLING OUTLET "a". 'K' WHERE USED INDICATES KEY SWITCH. '3' INDICATES 3-WAY SWITCH; '4' INDICATES 4-WAY SWITCH.
S^{M}	FLUSH WALL MOUNTED LOW VOLTAGE MOMENTARY CONTACT SWITCH, SIMILAR TO WATTSTOPPER LVSW-100. WORK WITH CEILING SENSORS (DT-300) FOR MANUAL ON, AUTO OFF OPERATION. 'a' INDICATES CONTROL ZONE; '3' INDICATES 3-WAY SWITCH; '4' INDICATES 4-WAY SWITCH.
(OS)	CEILING MOUNTED LOW VOLTAGE, DUAL TECHNOLOGY SENSOR, SIMILAR TO WATTSTOPPER MODEL# DT-300, MANUAL ON, AUTO OFF, WORK WITH LOCAL LOW VOLTAGE MOMENTARY CONTACT WALL SWITCH (LVSW-100). INCLUDE POWER PACKS.
$(OS)^{H}$	CEILING MOUNTED LOW VOLTAGE ULTRASONIC SENSOR, SIMILAR TO WATTSTOPPER MODEL# WT-2250, WITH LONG CORRIDOR COVERAGE PATTERN, INCLUDE POWER PACKS. MANUAL ON, AUTO OFF, WORK WITH LOCAL KEY SWITCHES.
S^{V}	WALL RECESS MOUNTED DUAL TECHNOLOGY VACANCY SENSOR, SIMILAR TO WATTSTOPPER MODEL# DSW-100. MANUAL ON, AUTO OFF.
RC3	NETWORK DIGITAL ROOM CONTROLLER FOR LIGHTING CONTROL. SIMILAR TO WATTSTOPPER MODEL LMRC-213. HOT WIRE TO LOAD, CAT 5 WIRE CONNECTIONS TO CONTROL DEVICES. RC'#' DENOTES LMRC-21'#' WITH '#' OF ZONES.
OS^{M}	NETWORK DIGITAL CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR, SIMILAR TO WATTSTOPPER MODEL LMPC-100-5. WORKS WITH DIGITAL ROOM CONTROLLER.
$WD3^{3}$	NETWORK DIGITAL FLUSH MOUNTED PRESET THREE ZONE DIMMABLE WALL STATION, SIMILAR TO WATTSTOPPER MODEL LMSW-105, WORKS WITH DIGITAL ROOM CONTROLLER. INCLUDES BUTTON ENGRAVING AND PROGRAMMING PER ZONES: ON/RAISE, OFF/LOWER, A, B, C, PRES. SUPERSCRIPT '3' DENOTES 3 WAY SWITCH.
(J)/(J)	CEILING/WALL MOUNTED JUNCTION BOX.
3	HOMERUN TO DESIGNATED PANEL, ARROWHEAD INDICATES SINGLE POLE CIRCUIT. HOMERUN SHALL CONSIST OF 2#12-3/4"C U.O.N.
2,(4,6)	HOMERUN TO DESIGNATED PANEL, NUMBERS IN PARENTHESIS INDICATE MULTIPLE CIRCUIT, I.E. 3-HOTS AND 1-GROUND U.O.N.
	EXISTING TO REMAIN
	EXISTING TO BE REMOVED
	NEW
	125V-2P-3W-20A GROUNDED TYPE, SPECIFICATION GRADE WALL MOUNTED DUPLEX RECEPTACLE HUBBELL #5362.
	120V-2P-3W-15A GROUNDED TYPE, SPECIFICATION GRADE SURFACE MOUNTED COMBINATION USB DUPLEX RECEPTACLE. CAT# LEGRAND #TM826USBWCC6 IN SURFACE MOUNTED BOX. INCLUDE COVER PLATE.
	DEDICATED OUTLET . OUTLET SHALL BE AS DESIGNATED ON DRAWING.
	20A FLUSH WALL MOUNTED GROUND FAULT INTERRUPTING TYPE DUPLEX RECEPTACLE HUBBELL #GF5362.
	SURFACE MOUNTED DOG HOUSE.
	125V-2P-3W-20A GROUNDED TYPE, SPECIFICATION GRADE FLOOR MOUNTED DUPLEX RECEPTACLE HUBBELL #5362.
	FLUSH WALL MOUNTED DATA OUTLET CONSISTING OF A STAINLESS STEEL COVER PLATE WITH RJ-45 MODULE WITH 1" CONDUIT STUBBED UP 6" ABOVE CEILING WITH BUSHINGS. PROVIDE COVER PLATE WITH WHITE RJ-45 MODULE. PROVIDE (1) CAT5E CABLE FROM DEVICE TO NEAREST IDF CLOSET AND TERMINATE INTO PATCH PANEL.
	FLUSH WALL MOUNTED STAFF CALL STATIONS CONSISTING OF A STAINLESS STEEL COVER PLATE WITH RJ-11 MODULE WITH 1" CONDUIT STUBBED UP 6" ABOVE CEILING WITH BUSHINGS. PROVIDE COVER PLATE WITH WHITE RJ-11 MODULE. PROVIDE #20 AWG CABLE FROM DEVICE TO NEW PA RACK. REFER TO RISER ON E501 FOR ADDITIONAL INFORMATION
F	FLUSH MOUNTED ELECTRICAL PANELBOARD.
	SURFACE MOUNTED NEW ELECTRICAL PANELBOARD.
	SURFACE MOUNTED EXISTING ELECTRICAL PANELBOARD.
240/3 60 40 WP	HEAVY DUTY TYPE DISCONNECT SWITCH WITH FINAL FLEXIBLE EQUIPMENT CONNECTION. 240 INDICATES VOLTAGE, 3 INDICATES NO. OF POLES, 60 INDICATES AMPERE RATING, NF INDICATES NON-FUSED(OR FUSE SIZE) U.O.N. REFER TO SPECIFICATION AND DRAWINGS FOR ENCLOSURE. 'WP' WHERE USED INDICATES WEATHERPROOF ENCLOSURE (NEMA 3R).
VFD	VARIABLE FREQUENCY DRIVE. FURNISHED BY MECHANICAL CONTRACTOR, WIRED AND INSTALLED BY ELECTRICAL CONTRACTOR. THE CONDUIT AND WIRING FROM VFD TO MECHANICAL UNIT INTER CONNECTION SHALL MATCH THE SAME SIZE AND CONDUIT AND WIRE FROM VFD TO DESIGNATED PANELBOARD. REFER TO PANEL SCHEDULE OR NOTES FOR CONDUIT WIRE AND SIZE
S_T	THERMAL SWITCH, CUTLER-HAMMER MS SERIES MANUAL STARTERS SINGLE-PHASE 20AMP, 120V U.O.N. WHERE INDICATED WITH 'WP' PROVIDE WATERTIGHT ENCLOSURE TYPE 3.
S_{2T}	208 VOLT, SINGLE PHASE 2 POLE, THERMAL OVERLOAD PROTECTED TOGGLE TYPE SWITCH. SIMILAR TO EATON #AH4361 + #AH27940G NEMA 1 ENCLOSURE.
(M)	MOTOR (F.B.O. WIRED BY ELEC.) - REFER TO PANEL SCHEDULES FOR WIRING AND OVER CURRENT PROTECTION.
	SURFACE MOUNTED WIREMOLD SERIES 4000 CONTAINING RECEPTACLE CIRCUITS AND COMMUNICATION WIRING. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.
	SURFACE MOUNTED WIREMOLD V700 FOR RECEPTACLE AND/OR COMMUNICATION WIRING. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.
(S)	CEILING MOUNTED COMBINATION FIRE ALARM SPEAKER/STROBE DEVICE.

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

BETHUNE LEARNING CENTER

Alterations

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NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

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Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2019	SED ISSUE

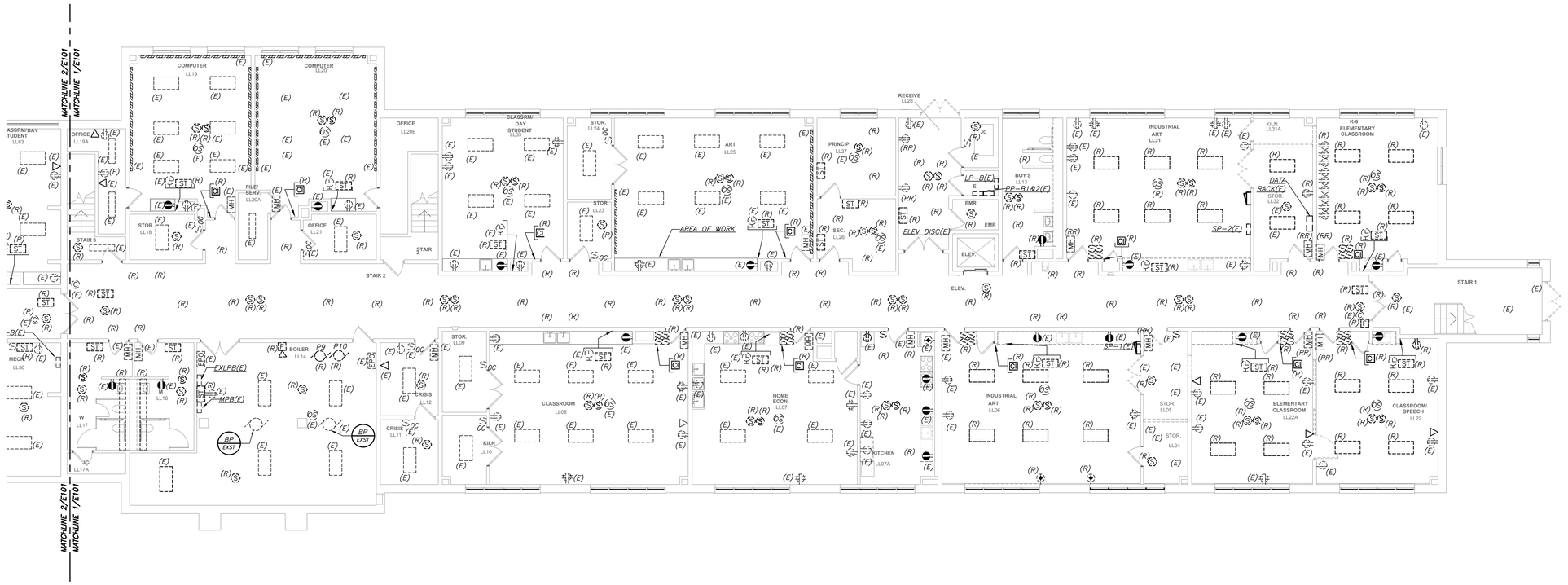
Sheet Title

LEGEND, ABBREVIATIONS AND NOTES

Job No.	Date
2019-1029	01/17/2019
Scale: AS NOTED	Drawn / Checked: BGA/BGA

Sheet Number

E001

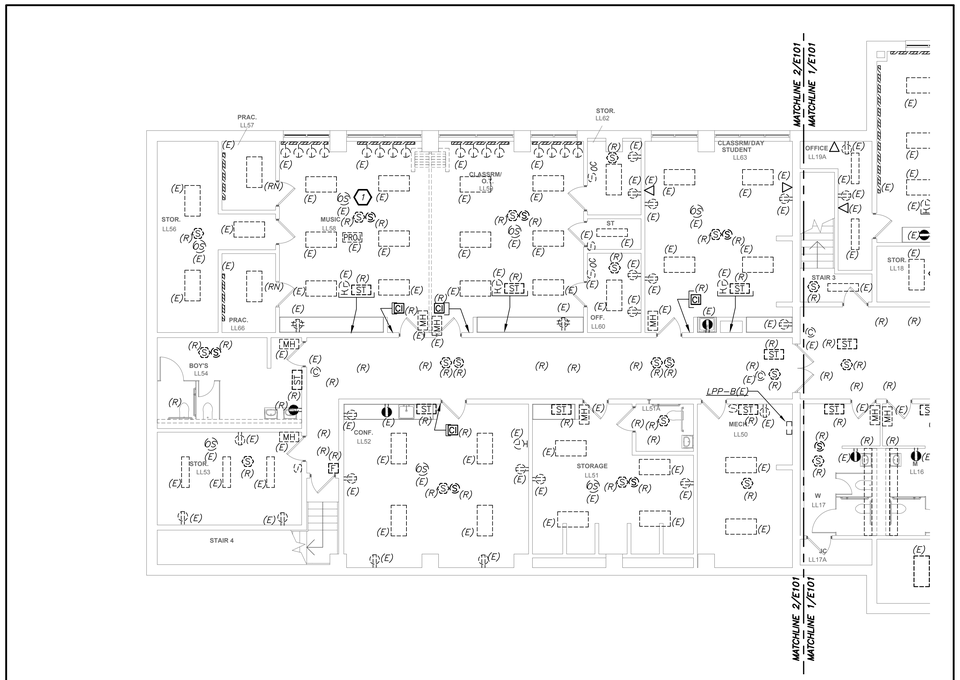


LOWER FLOOR PLAN (REMOVALS) 1 E101

0 8' 16'
1/8 inch=1 foot

GENERAL REMOVAL NOTES:

1. REMOVE ALL FIRE ALARM DEVICES INCLUDING BUT NOT LIMITED TO SMOKE DETECTORS, STROBES, PULL STATIONS IN ITS ENTIRETY BACK TO SOURCE. FIRE ALARM CONTROL PANEL TO REMAIN. SEE RISER ON E501 FOR ADDITIONAL SCOPE OF WORK.
2. IN CORRIDORS AND STAIRCASE WHERE WALL MOUNTED FIRE ALARM DEVICES ARE REMOVED E.C TO PROVIDE BLANK PAINTABLE METAL COVER PLATE TO BE PAINTED BY GC TO MATCH EXISTING WALL.
3. REMOVE ALL PUBLIC ADDRESS SYSTEM DEVICES INCLUDING MAIN HEADEND, SPEAKERS AND CALL IN BUTTONS IN ITS ENTIRETY.
4. EXISTING CLOCKS TO REMAIN. EC TO PROVIDE TERMINAL BOX AND EXTEND ALL WIRING TO THE NEW MASTER CLOCK PROVIDED IN NEW PA RACK. REFER TO E501 FOR ADDITIONAL INFORMATION



LOWER FLOOR PLAN (REMOVALS) 2 E101

0 8' 16'
1/8 inch=1 foot

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

BETHUNE LEARNING CENTER

Alterations

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Key Plan

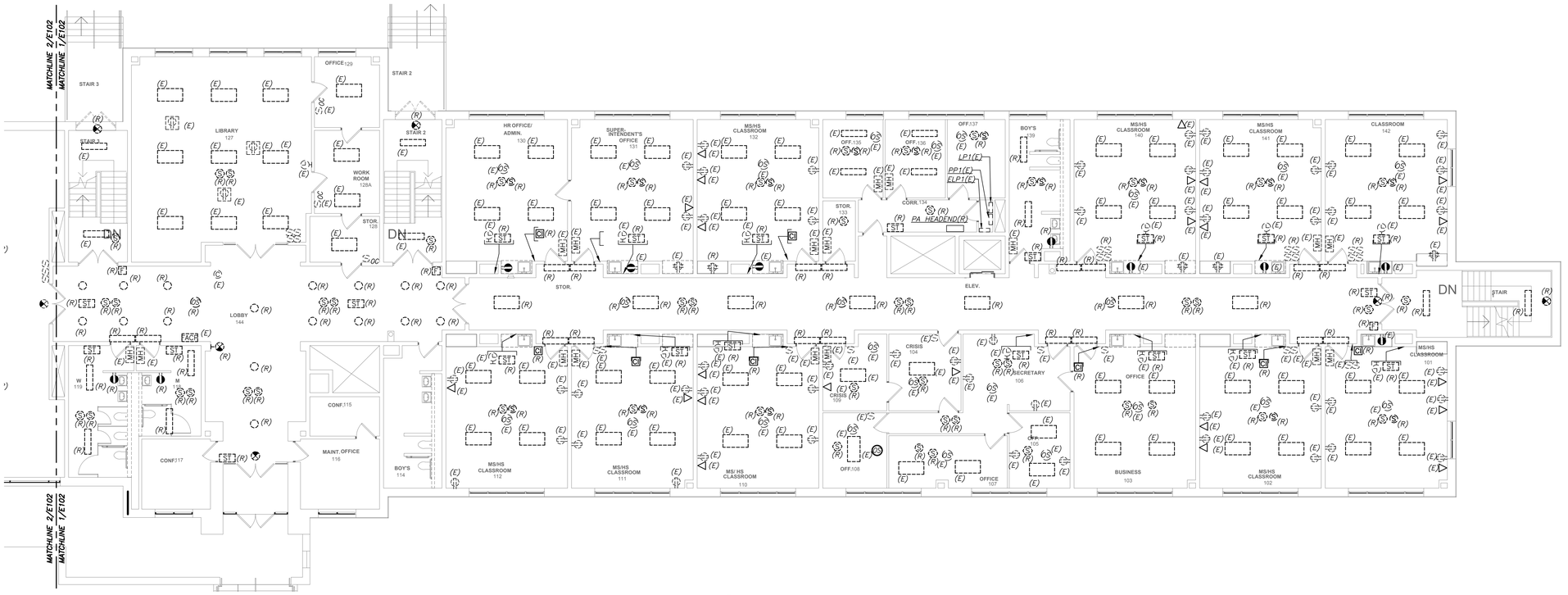
Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2019	SED ISSUE

Sheet Title
LOWER LEVEL REMOVALS

Job No.	Date
2019-1029	01/17/2019
Scale	Drawn / Checked
AS NOTED	BGA/BGA

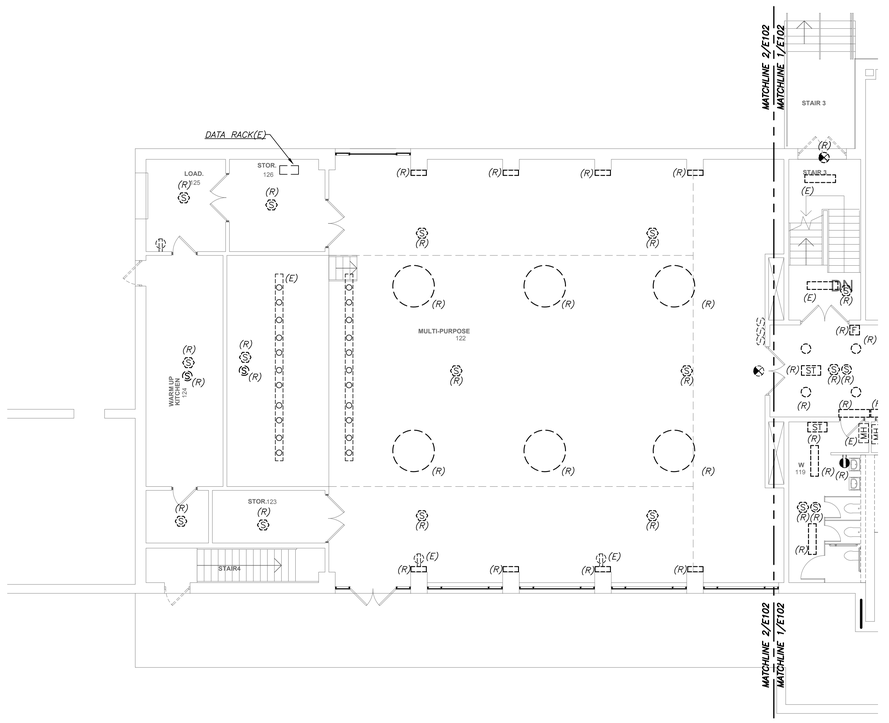
Sheet Number
E101



FIRST FLOOR PLAN (REMOVALS) — 1/E102 — 0, 8', 16' — 1/8 inch=1 foot

GENERAL REMOVAL NOTES:

1. REMOVE ALL FIRE ALARM DEVICES INCLUDING BUT NOT LIMITED TO SMOKE DETECTORS, STROBES, PULL STATIONS IN ITS ENTIRETY BACK TO SOURCE. FIRE ALARM CONTROL PANEL TO REMAIN. SEE RISER ON E501 FOR ADDITIONAL SCOPE OF WORK.
2. IN CORRIDORS AND STAIRCASE WHERE WALL MOUNTED FIRE ALARM DEVICES ARE REMOVED E.C TO PROVIDE BLANK PINTABLES METAL COVER PLATE TO BE PAINTED BY GC TO MATCH EXISTING WALL.
3. REMOVE ALL PUBLIC ADDRESS SYSTEM DEVICES INCLUDING MAIN HEADEND, SPEAKERS AND CALL IN BUTTONS IN ITS ENTIRETY.
4. EXISTING CLOCKS TO REMAIN. EC TO PROVIDE TERMINAL BOX AND EXTEND ALL WIRING TO THE NEW MASTER CLOCK PROVIDED IN NEW PA RACK. REFER TO E501 FOR ADDITIONAL INFORMATION



FIRST FLOOR PLAN (REMOVALS) — 2/E102 — 0, 8', 16' — 1/8 inch=1 foot

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

BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

1 Echo Hill Drive - Building #36
Dobbs Ferry, NY 10522

KG+D ARCHITECTS, PC
285 MAIN STREET• MOUNT KISCO, NEW YORK 10549
P: 914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
39 MARBLE AVE PLEASANTVILLE, NY 10570
914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
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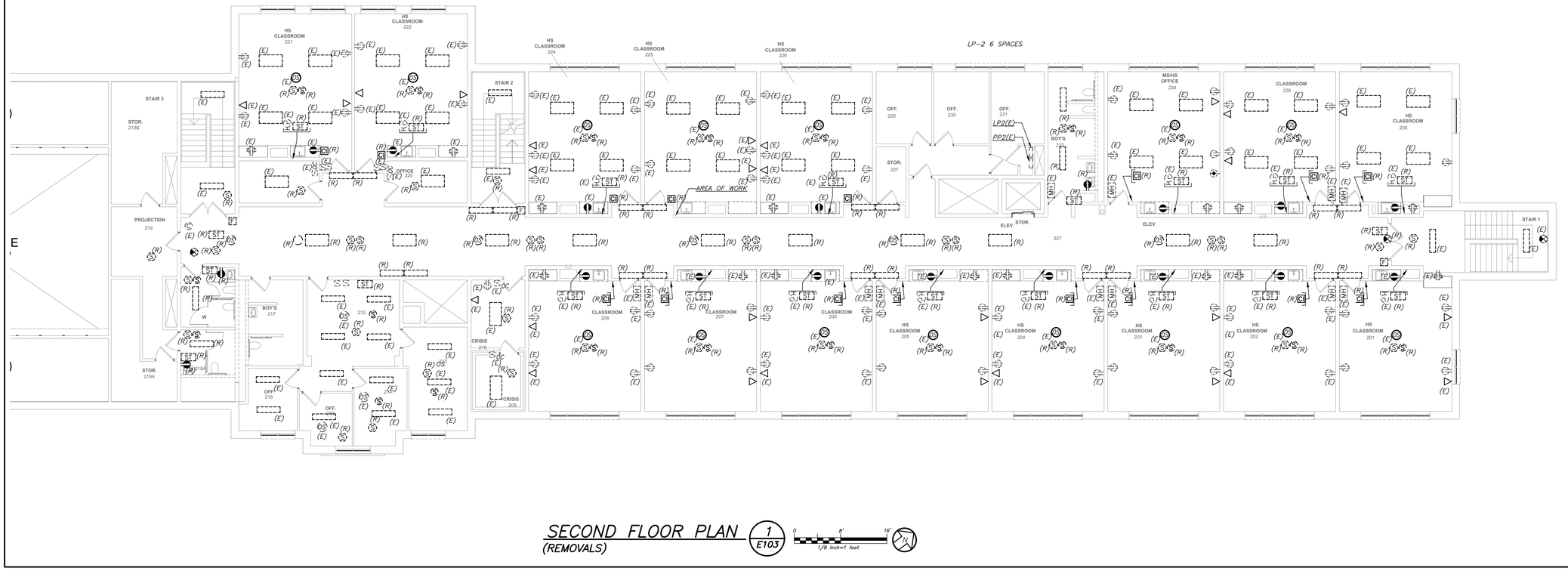
Sheet Title

FIRST FLOOR REMOVAL

Job No.	Date
2019-1029	01/17/2019
Scale: AS NOTED	Drawn / Checked: BGA/BGA

Sheet Number

E102



SECOND FLOOR PLAN (REMOVALS)

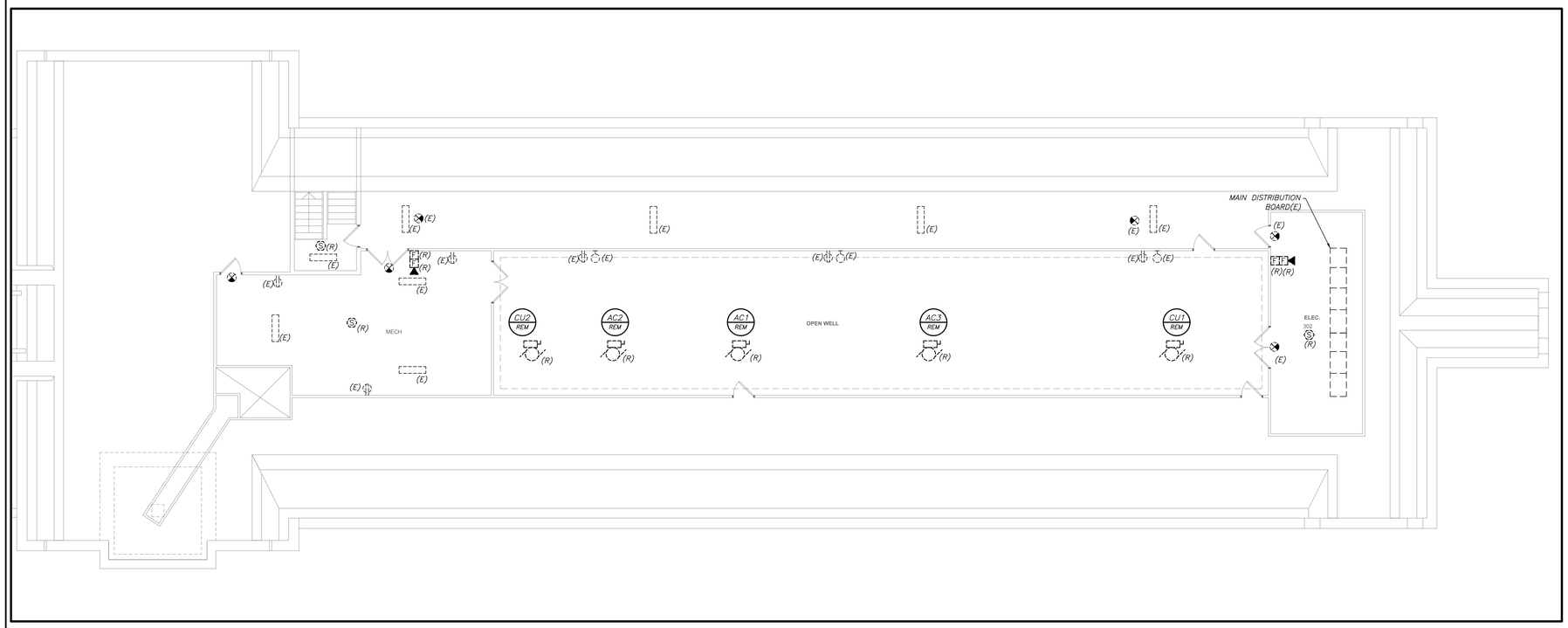
1 / E103

0 8' 16'

1/8 inch=1 foot

GENERAL REMOVAL NOTES:

1. REMOVE ALL FIRE ALARM DEVICES INCLUDING BUT NOT LIMITED TO SMOKE DETECTORS, STROBES, PULL STATIONS IN ITS ENTIRETY BACK TO SOURCE. FIRE ALARM CONTROL PANEL TO REMAIN. SEE RISER ON E501 FOR ADDITIONAL SCOPE OF WORK.
2. IN CORRIDORS AND STAIRCASE WHERE WALL MOUNTED FIRE ALARM DEVICES ARE REMOVED E.C TO PROVIDE BLANK PAINTABLE METAL COVER PLATE TO BE PAINTED BY GC TO MATCH EXISTING WALL.
3. REMOVE ALL PUBLIC ADDRESS SYSTEM DEVICES INCLUDING MAIN HEADEND, SPEAKERS AND CALL IN BUTTONS IN ITS ENTIRETY.



SECOND FLOOR PLAN (REMOVALS)

1 / E103

0 8' 16'

1/8 inch=1 foot

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Key Plan

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1	01/17/2019	SED ISSUE

Sheet Title

SECOND FLOOR REMOVALS

Job No.	Date
2019-1029	01/17/2019
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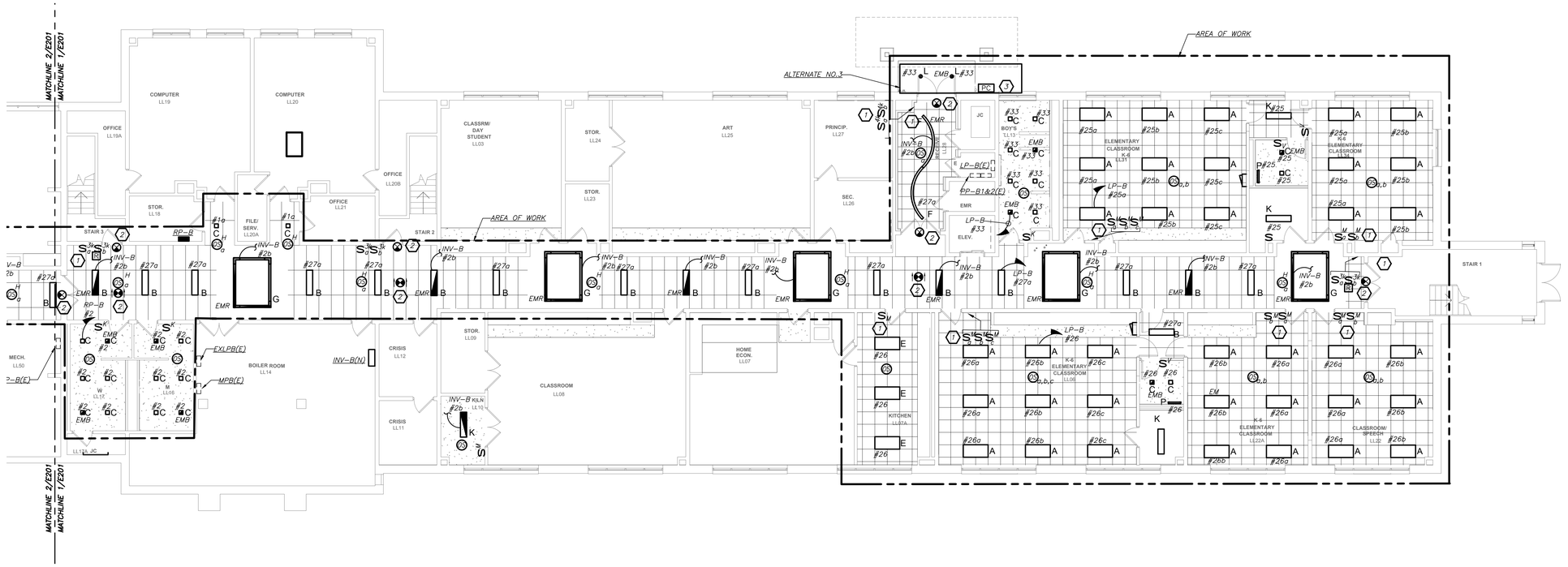
Sheet Number

E103



LOWER FLOOR LIGHTING PLAN (NEW WORK)

1 / E201

0 8' 16'

1/8 inch=1 foot

GENERAL NOTES:

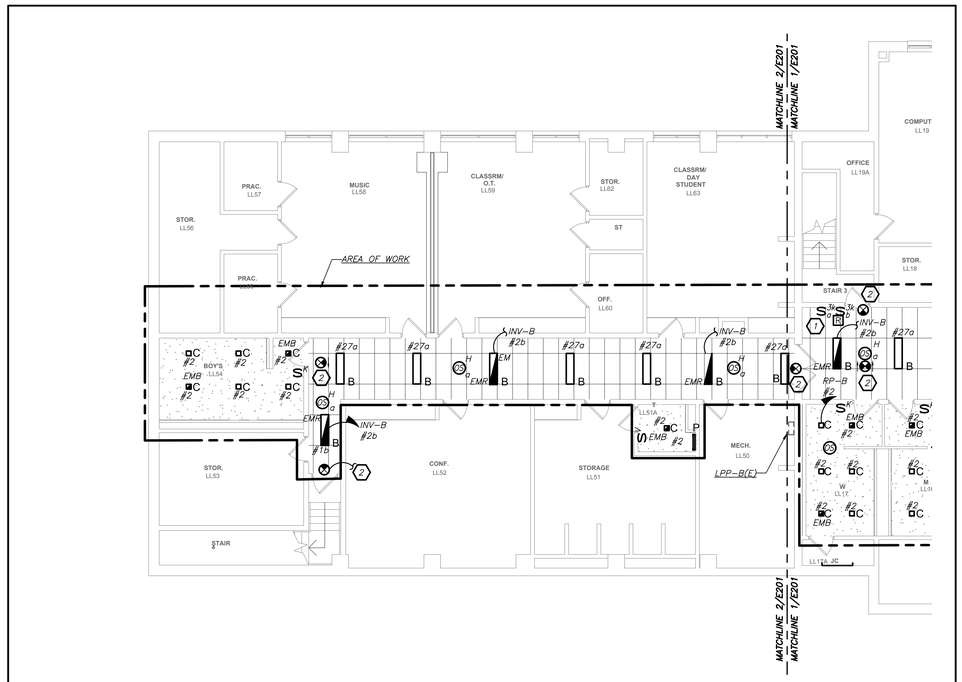
1. REFER TO DRAWING E601 FOR LIGHTING FIXTURE SCHEDULE. REFER TO DRAWING E001 FOR LIGHTING CONTROL ON LEGEND FOR DETAIL.
2. REFER TO DRAWING E601 FOR PANELBOARD SCHEDULES.
3. LOWER CASE LETTER "a" NEXT TO EACH FIXTURE DENOTES LIGHTING CONTROL ZONE "a".
4. ALL OCCUPANCY SENSORS SHALL BE SET TO MAXIMUM SENSITIVITY AND TIME DELAY
5. ALL EXIT LIGHTS SHALL BE CIRCUITED TO NORMAL LIGHTING CIRCUIT IN THE AREA, AHEAD OF ANY SWITCHING.

LIGHTING CONTROL AND SEQUENCE OF OPERATION:

1. GANG TOILETS ARE CONTROLLED VIA MANUAL WALL MOUNTED KEY SWITCH AND OCCUPANCY SENSORS. WALL SWITCHES CONSISTS OF 'ON' AND 'OFF'. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO ON – AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS IN THE DESIGNATED ZONE OFF AFTER 20 MINUTES WHEN THE BATHROOM IS VACANT. FIXTURES DESIGNATED WITH EMB SHALL BE WIRED AHEAD OF ANY SWITCHING CONTROL. EMERGENCY FIXTURE SHALL REVERT TO BATTERY OPERATION UPON INTERRUPTION OF NORMAL POWER AND ILLUMINATED REGARDLESS OF SWITCH POSITION.
2. SINGLE TOILETS SHALL BE CONTROLLED VIA WALL MOUNTED VACANCY SENSOR. THE VACANCY SENSORS CONSISTS OF MANUAL 'ON' AND AUTO 'OFF'. THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE THE BATHROOM IS VACANT. FIXTURES DESIGNATED WITH EMB SHALL BE WIRED AHEAD OF ANY SWITCHING CONTROL. EMERGENCY FIXTURE SHALL REVERT TO BATTERY OPERATION UPON INTERRUPTION OF NORMAL POWER AND ILLUMINATED REGARDLESS OF SWITCH POSITION.
3. CLASSROOMS ARE CONTROLLED VIA MANUAL WALL MOUNTED SWITCHES AND OCCUPANCY SENSORS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT
4. CORRIDORS ARE CONTROLLED VIA TWO SEPARATE MANUAL WALL MOUNTED KEY SWITCHES AND OCCUPANCY SENSORS. WALL SWITCHES CONSISTS OF 'ON' AND 'OFF'. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO ON – AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS IN THE DESIGNATED ZONE OFF AFTER 20 MINUTES WHEN THE CORRIDOR IS VACANT. THE OCCUPANCY SENSORS SHALL CONTROL ONLY NORMAL/NON EMERGENCY LIGHTING. THE LIGHTING FIXTURES DESIGNATED WITH EMERGENCY FEATURE SHALL ONLY BE CONTROLLED VIA WALL MOUNTED KEY SWITCH. UL 924 EMERGENCY LIGHTING RELAY (R) ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF LOST OF POWER.

WORK NOTES:

1. ELECTRICAL CONTRACTOR TO UTILIZE EXISTING RECESSED MOUNTED LIGHT SWITCH BACK BOX. PROVIDE MULTI–GANG COVER PLATE TO MATCH NEW CONFIGURATION OF LIGHT SWITCH WITH BLANKS.
2. CIRCUIT EXIT LIGHTS TO THE NORMAL LIGHTING CIRCUIT IN THIS AREA, AHEAD OF ANY SWITCHING.
3. PROVIDE TORK 2001 SERIES PHOTOCELL SENSOR FOR TYPE L LIGHT FIXTURE MOUNTED ON THE SIDE OF THE CANOPY TO OPERATE EXTERIOR LIGHTING.



LOWER FLOOR LIGHTING PLAN (NEW WORK)

2 / E201

0 8' 16'

1/8 inch=1 foot

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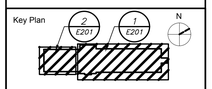
Key Plan



Professional Seal

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LOWER LEVEL LIGHTING PLANS

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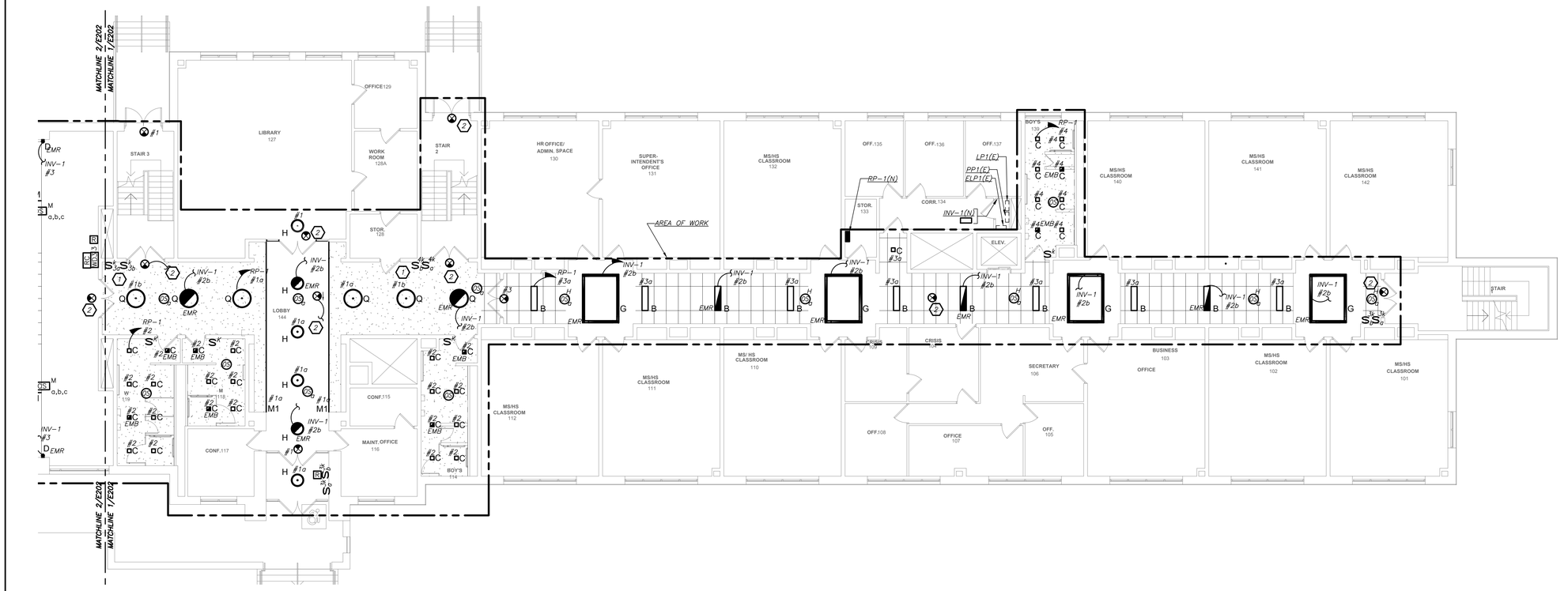
Sheet Number

E201



FIRST FLOOR LIGHTING PLAN (NEWWORK)

1 / E202

0 4' 8' 16'

1/8 inch=1 foot

GENERAL NOTES:

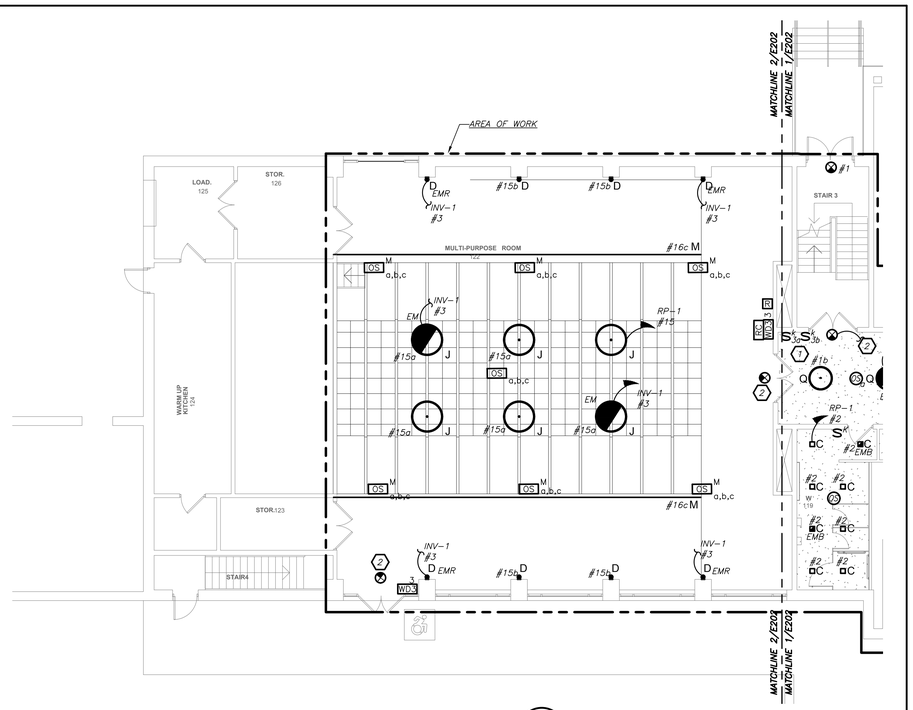
1. REFER TO DRAWING E601 FOR LIGHTING FIXTURE SCHEDULE. REFER TO DRAWING E001 FOR LIGHTING CONTROL ON LEGEND FOR DETAIL.
2. REFER TO DRAWING E601 FOR PANELBOARD SCHEDULES.
3. LOWER CASE LETTER "a" NEXT TO EACH FIXTURE DENOTES LIGHTING CONTROL ZONE "a".
4. ALL OCCUPANCY SENSORS SHALL BE SET TO MAXIMUM SENSITIVITY AND TIME DELAY
5. ALL EXIT LIGHTS SHALL BE CIRCUITED TO NORMAL LIGHTING CIRCUIT IN THE AREA, AHEAD OF ANY SWITCHING.

LIGHTING CONTROL AND SEQUENCE OF OPERATION:

1. GANG TOILETS ARE CONTROLLED VIA MANUAL WALL MOUNTED KEY SWITCH AND OCCUPANCY SENSORS. WALL SWITCHES CONSISTS OF "ON" AND "OFF". THE OCCUPANCY SENSORS SHALL HAVE THE AUTO ON – AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS IN THE DESIGNATED ZONE OFF AFTER 20 MINUTES WHEN THE BATHROOM IS VACANT. FIXTURES DESIGNATED WITH EMB SHALL BE WIRED AHEAD OF ANY SWITCHING CONTROL. EMERGENCY FIXTURE SHALL REVERT TO BATTERY OPERATION UPON INTERRUPTION OF NORMAL POWER AND ILLUMINATED REGARDLESS OF SWITCH POSITION.
2. SINGLE TOILETS SHALL BE CONTROLLED VIA WALL MOUNTED VACANCY SENSOR. THE VACANCY SENSORS CONSISTS OF MANUAL "ON" AND AUTO "OFF". THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE THE BATHROOM IS VACANT. FIXTURES DESIGNATED WITH EMB SHALL BE WIRED AHEAD OF ANY SWITCHING CONTROL. EMERGENCY FIXTURE SHALL REVERT TO BATTERY OPERATION UPON INTERRUPTION OF NORMAL POWER AND ILLUMINATED REGARDLESS OF SWITCH POSITION.
3. MULTIPURPOSE ARE SHALL BE CONTROLLED VIA ROOM CONTROLLER AND OCCUPANCY SENSORS. THE OCCUPANCY SENSORS SHALL HAVE THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE ROOM IS VACANT. UL 924 EMERGENCY LIGHTING RELAY (R) ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF LOST OF POWER.
4. CORRIDORS ARE CONTROLLED VIA TWO SEPARATE MANUAL WALL MOUNTED KEY SWITCHES AND OCCUPANCY SENSORS. WALL SWITCHES CONSISTS OF "ON" AND "OFF". THE OCCUPANCY SENSORS SHALL HAVE THE AUTO ON – AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS IN THE DESIGNATED ZONE OFF AFTER 20 MINUTES WHEN THE CORRIDOR IS VACANT. THE OCCUPANCY SENSORS SHALL CONTROL ONLY NORMAL/NON EMERGENCY LIGHTING. THE LIGHTING FIXTURES DESIGNATED WITH EMERGENCY FEATURE SHALL ONLY BE CONTROLLED VIA WALL MOUNTED KEY SWITCH. UL 924 EMERGENCY LIGHTING RELAY (R) ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF LOST OF POWER.

WORK NOTES:

1. ELECTRICAL CONTRACTOR TO UTILIZE EXISTING RECESSED MOUNTED LIGHT SWITCH BACK BOX. PROVIDE MULTI-GANG COVER PLATE TO MATCH NEW CONFIGURATION OF LIGHT SWITCH WITH BLANKS.



FIRST FLOOR LIGHTING PLAN (NEW WORK)

2 / E202

0 4' 8' 16'

1/8 inch=1 foot

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BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

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NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

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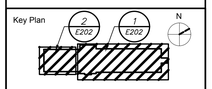
39 MARBLE AVE PLEASANTVILLE, NY 10570
914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Key Plan



Professional Seal

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Sheet Title

FIRST FLOOR LIGHTING PLANS

Job No.	Date
2019-1029	01/17/2019
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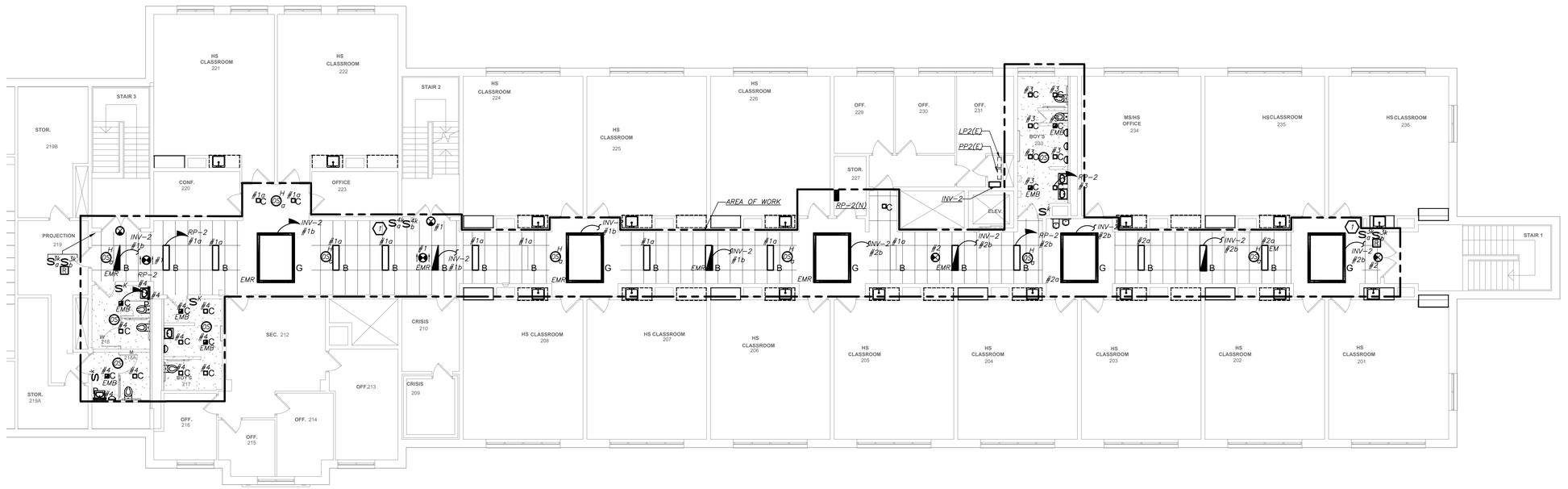
AS NOTED	BGA/BOA

Sheet Number

E202



SECOND FLOOR LIGHTING PLAN (NEWWORK)

1 / E203

0 8' 16'

1/8 inch=1 foot

GENERAL NOTES:

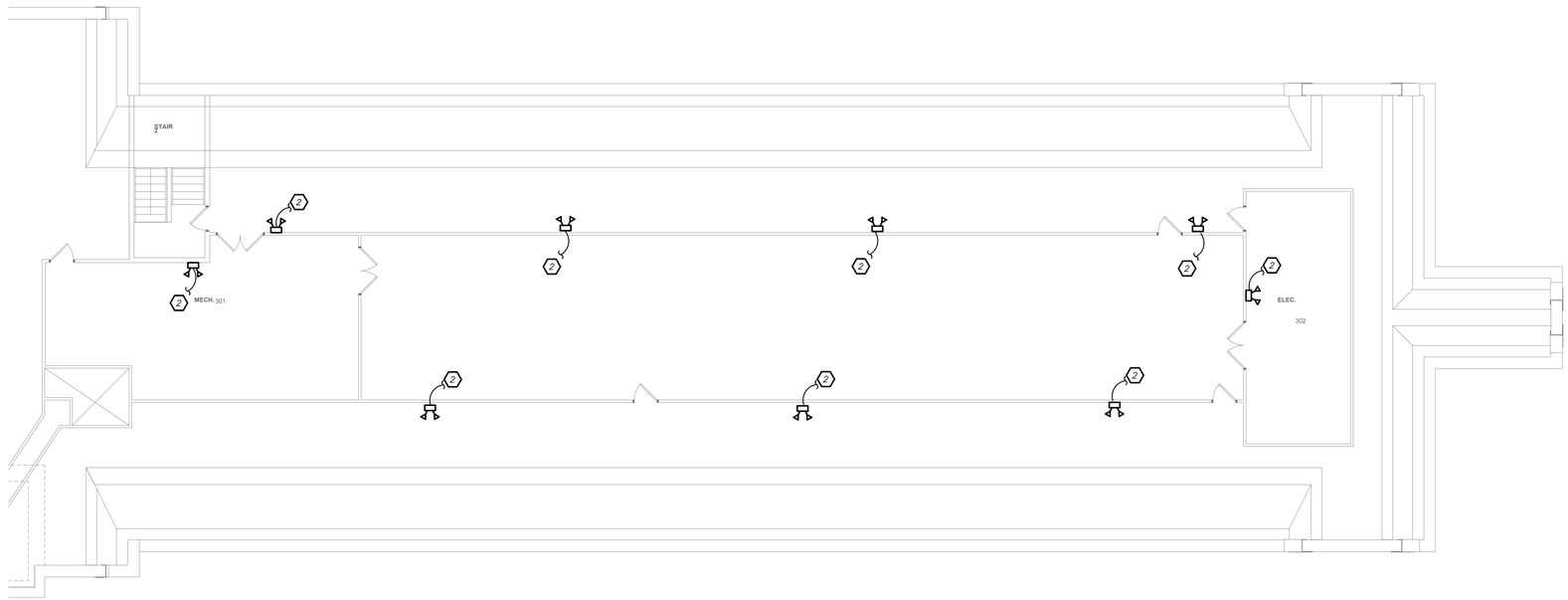
1. REFER TO DRAWING E601 FOR LIGHTING FIXTURE SCHEDULE. REFER TO DRAWING E001 FOR LIGHTING CONTROL ON LEGEND FOR DETAIL.
2. REFER TO DRAWING E601 FOR PANELBOARD SCHEDULES.
3. LOWER CASE LETTER "a" NEXT TO EACH FIXTURE DENOTES LIGHTING CONTROL ZONE "a".
4. ALL OCCUPANCY SENSORS SHALL BE SET TO MAXIMUM SENSITIVITY AND TIME DELAY
5. ALL EXIT LIGHTS SHALL BE CIRCUITED TO NORMAL LIGHTING CIRCUIT IN THE AREA, AHEAD OF ANY SWITCHING.

LIGHTING CONTROL AND SEQUENCE OF OPERATION:

1. GANG TOILETS ARE CONTROLLED VIA MANUAL WALL MOUNTED KEY SWITCH AND OCCUPANCY SENSORS. WALL SWITCHES CONSISTS OF "ON" AND "OFF". THE OCCUPANCY SENSORS SHALL HAVE THE AUTO ON – AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS IN THE DESIGNATED ZONE OFF AFTER 20 MINUTES WHEN THE BATHROOM IS VACANT. FIXTURES DESIGNATED WITH EMB SHALL BE WIRED AHEAD OF ANY SWITCHING CONTROL. EMERGENCY FIXTURE SHALL REVERT TO BATTERY OPERATION UPON INTERRUPTION OF NORMAL POWER AND ILLUMINATED REGARDLESS OF SWITCH POSITION.
2. SINGLE TOILETS SHALL BE CONTROLLED VIA WALL MOUNTED VACANCY SENSOR. THE VACANCY SENSORS CONSISTS OF MANUAL "ON" AND AUTO "OFF". THE AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS OFF AFTER 20 MINUTES WHEN THE THE BATHROOM IS VACANT. FIXTURES DESIGNATED WITH EMB SHALL BE WIRED AHEAD OF ANY SWITCHING CONTROL. EMERGENCY FIXTURE SHALL REVERT TO BATTERY OPERATION UPON INTERRUPTION OF NORMAL POWER AND ILLUMINATED REGARDLESS OF SWITCH POSITION.
3. CORRIDORS ARE CONTROLLED VIA TWO SEPARATE MANUAL WALL MOUNTED KEY SWITCHES AND OCCUPANCY SENSORS. WALL SWITCHES CONSISTS OF "ON" AND "OFF". THE OCCUPANCY SENSORS SHALL HAVE THE AUTO ON – AUTO OFF FEATURE WHICH SHALL TURN ALL LIGHTS IN THE DESIGNATED ZONE OFF AFTER 20 MINUTES WHEN THE CORRIDOR IS VACANT. THE OCCUPANCY SENSORS SHALL CONTROL ONLY NORMAL/NON EMERGENCY LIGHTING. THE LIGHTING FIXTURES DESIGNATED WITH EMERGENCY FEATURE SHALL ONLY BE CONTROLLED VIA WALL MOUNTED KEY SWITCH. UL 924 EMERGENCY LIGHTING RELAY (R) ARE INCLUDED TO OVERRIDE SWITCH AND FORCE EMERGENCY LIGHTS ON IN THE EVENT OF LOST OF POWER.

WORK NOTES:

1. ELECTRICAL CONTRACTOR TO UTILIZE EXISTING RECESSED MOUNTED LIGHT SWITCH BACK BOX. PROVIDE MULTI-GANG COVER PLATE TO MATCH NEW CONFIGURATION OF LIGHT SWITCH WITH BLANKS.
2. ELECTRICAL CONTRACTOR TO CIRCUIT NEW EMERGENCY BATTERY BACK-UP LIGHTS TO THE EXISTING NORMAL CIRCUIT IN THE AREA AHEAD OF ANY SWITCHING.



ATTIC LIGHTING PLAN

2 / E203

0 8' 16'

1/8 inch=1 foot

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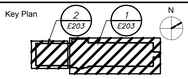
Key Plan



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Sheet Title
SECOND FLOOR LIGHTING PLANS

Job No.	Date
2019-1029	01/17/2019
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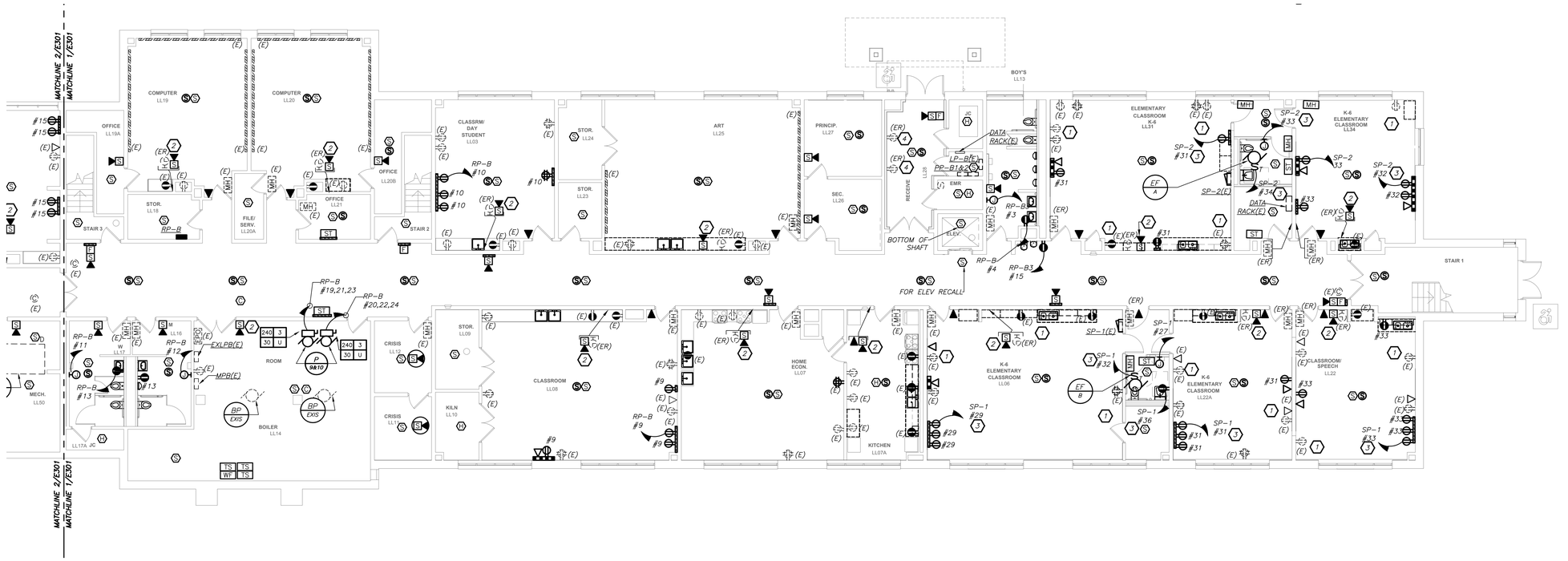
AS NOTED	BGA/BGA

Sheet Number
E203



LOWER FLOOR POWER PLAN (NEWWORK)

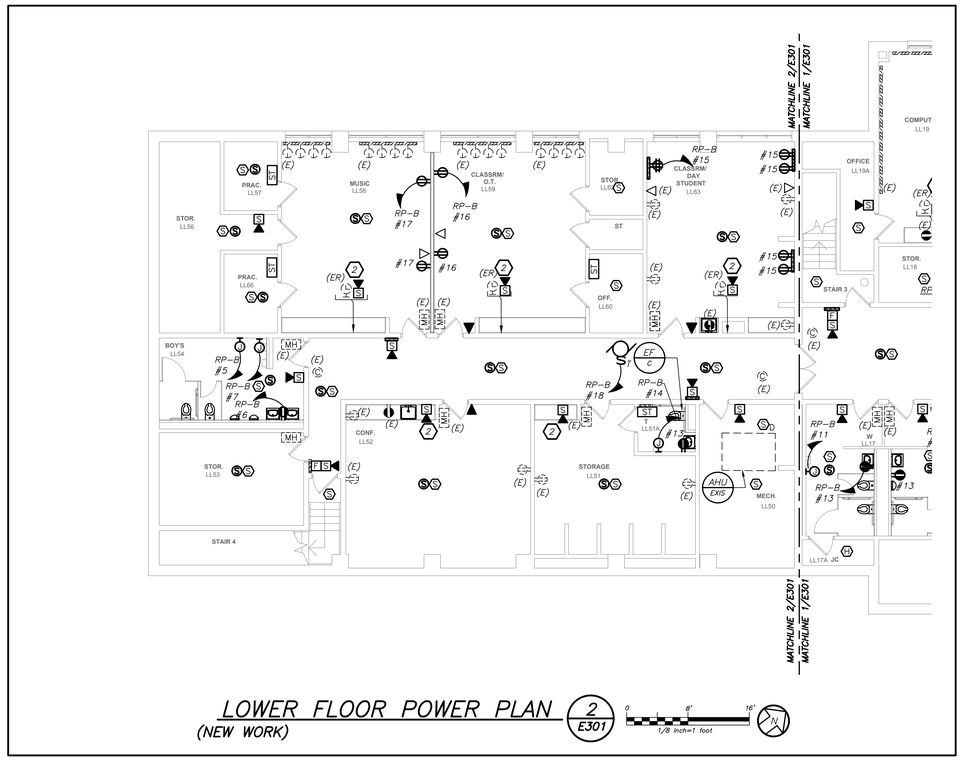
1 / E301

0 8' 16'

1/8 inch=1 foot

WORK NOTES:

1. ALL EXISTING RECEPTACLES COVER PLATES IN ELEMENTARY CLASSROOMS TO BE REPLACED WITH STAINLESS STEEL TO MATCH WITH NEW.
2. NEW SPEAKER/STROBE IN THE CLASSROOM TO BE INSTALLED IN THE SAME LOCATION OF THE EXISTING STROBE THAT WAS REMOVED DURING DEMOLITION WORK.
3. PROVIDE 20AMP–1P BREAKER IN THE INDICATED PANELBOARD. PROVIDE 2#12+1#12–3/4"C FROM RECEPTACLE/J–BOX TO INDICATED PANELBOARD.
4. EXISTING WALL IS BEING FURRED OUT. PROVIDE EXTENSION COLLARS FOR RECEPTACLE BACK BOX AND EXTEND EXISTING WIRING AS REQUIRED AN NECESSARY. OUTLET SHALL BE FLUSH WITH NEW FURRED WALL.



LOWER FLOOR POWER PLAN (NEW WORK)

2 / E301

0 8' 16'

1/8 inch=1 foot

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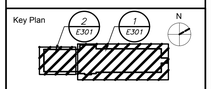

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LOWER LEVEL POWER PLANS

Job No. 2019-1029	Date 01/17/2019
Scale AS NOTED	Drawn / Checked BGA/BGA

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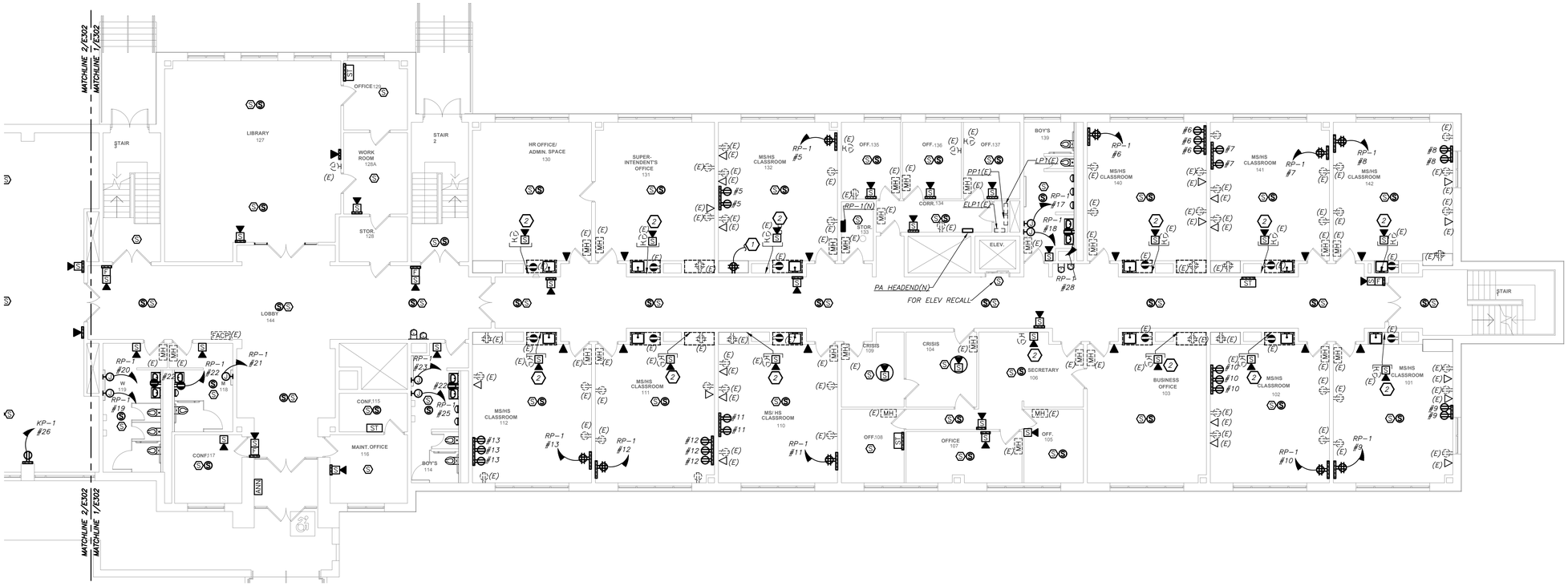
E301



FIRST FLOOR POWER PLAN (NEWWORK)

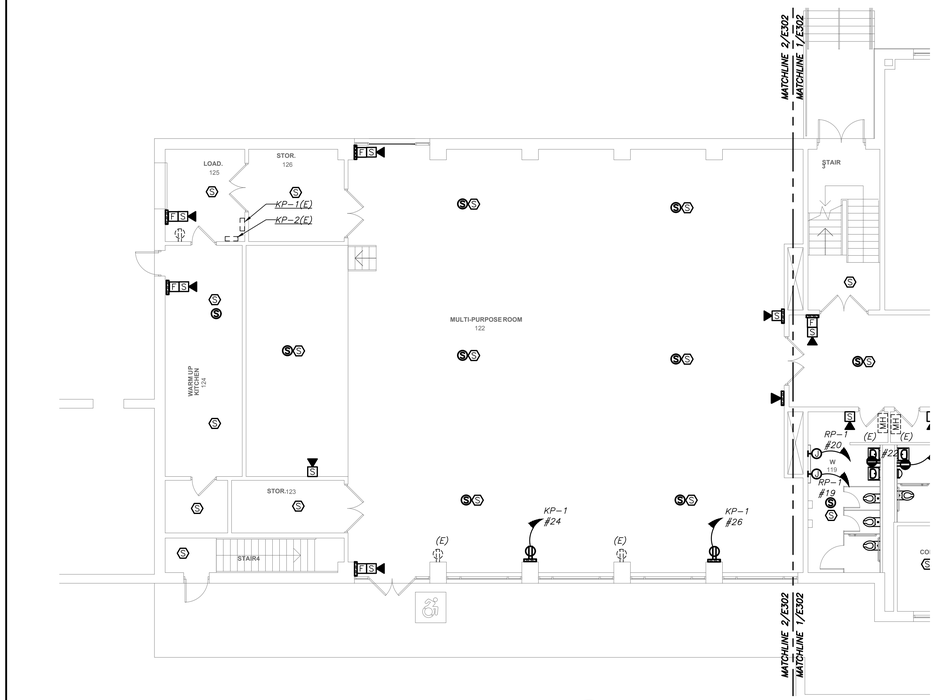
1 / E302

0 8' 16'

1/8 inch=1 foot

WORK NOTES:

1. ALL EXISTING RECEPTACLES COVER PLATES IN ELEMENTARY CLASSROOMS TO BE REPLACED WITH STAINLESS STEEL TO MATCH WITH NEW.
2. NEW SPEAKER STROBE IN THE CLASSROOM TO BE INSTALLED IN THE SAME LOCATION OF THE EXISTING STROBE THAT WAS REMOVED DURING DEMOLITION WORK.



FIRST FLOOR POWER PLAN (NEW WORK)

2 / E302

0 8' 16'

1/8 inch=1 foot

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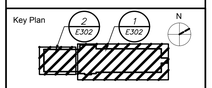
NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

BARILE GALLAGHER & ASSOCIATES
CONSULTING ENGINEERS
39 MARBLE AVE PLEASANTVILLE, NY 10570
914.328.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Key Plan



Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2019	SED ISSUE

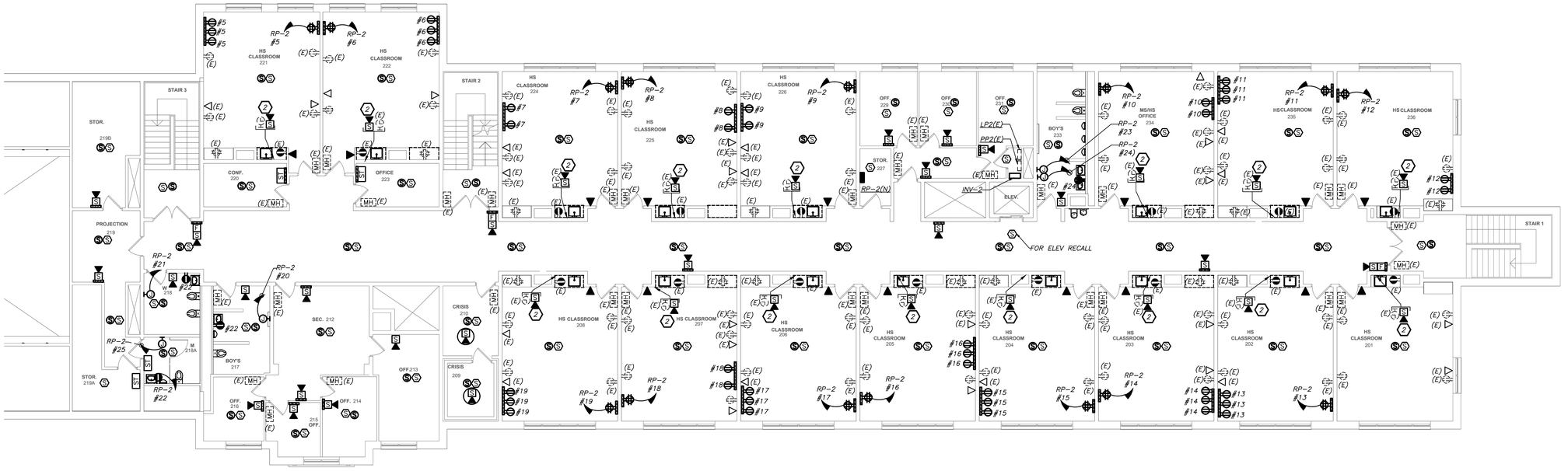
Sheet Title

FIRST FLOOR POWER PLANS

Job No.	Date
2019-1029	01/17/2019
Scale	Drawn / Checked
AS NOTED	BGA/BGA

Sheet Number

E302



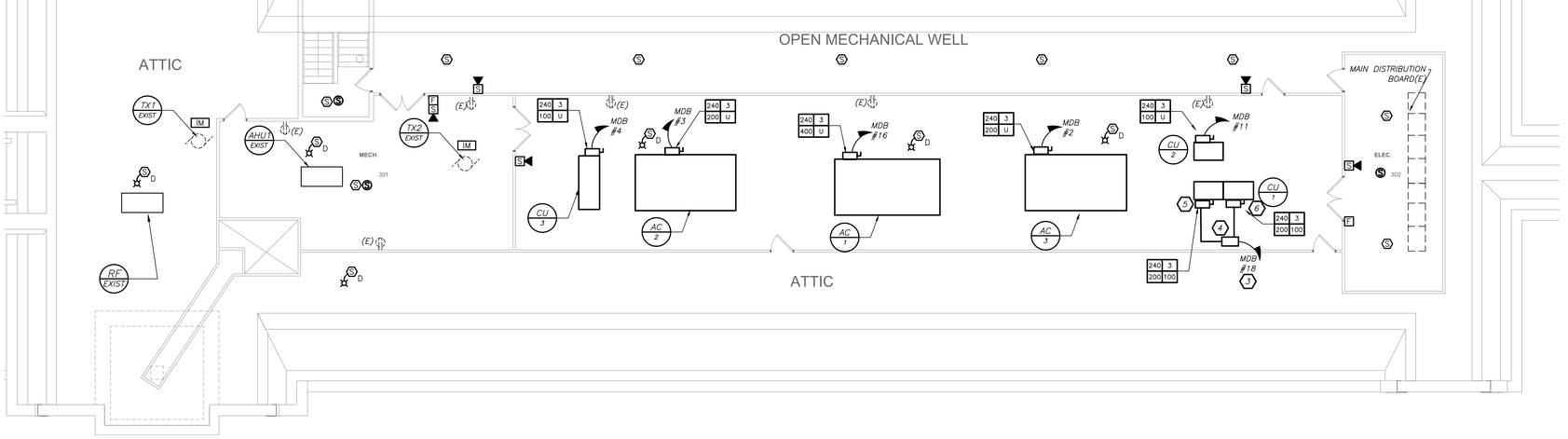
SECOND FLOOR POWER PLAN (NEW WORK)

1 / E303

1/8 inch=1 foot

WORK NOTES:

1. ALL EXISTING RECEPTACLES COVER PLATES IN ELEMENTARY CLASSROOMS TO BE REPLACED WITH STAINLESS STEEL TO MATCH WITH NEW.
2. NEW SPEAKER STROBE IN THE CLASSROOM TO BE INSTALLED IN THE SAME LOCATION OF THE EXISTING STROBE THAT WAS REMOVED DURING DEMOLITION WORK.
3. EC TO USE EXISTING 200A SWITCH FUSE MADE AVAILABLE AFTER DEMO WORK. PROVIDE ONE SET OF 3#3/0+1#6 IN 2"C TO MAIN DISTRIBUTION BOARD IN ELECTRICAL ROOM.
4. PROVIDE PULLBOX WITH TERMINAL BLOCKS. ONE SET OF LUGS PER PHASE ON THE INPUT AND TWO SETS OF LUGS PER PHASE ON OUTPUT. PROVIDE ONE SET OF 3#3/0+1#6 IN 2"C TO INPUT. ON THE OUTPUT SIDE PROVIDE ONE SET OF 3#3/0+1#6 IN 2"C TO POWER FEED 1 AND ONE SET OF 3#3/0+1#6 IN 2"C TO POWER FEED 2 ON CONDENSING UNIT CU-1.
5. EC TO PROVIDE 200AMP DISC SWITCH FUSED AT 100AMP FOR POWER FEED 1 ON CU-1. PROVIDE ALL JUNCTION BOXES, TROFFER ETC AS NEEDED.
6. EC TO PROVIDE 200AMP DISC SWITCH FUSED AT 100AMP FOR POWER FEED 2 ON CU-1. PROVIDE ALL JUNCTION BOXES, TROFFER ETC AS NEEDED.



ATTIC POWER PLAN (NEW WORK)

2 / E303

1/8 inch=1 foot

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

BETHUNE LEARNING CENTER

Alterations

GREENBURGH ELEVEN UFSD

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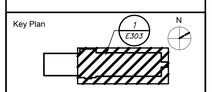
Key Plan



Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2019	SED ISSUE

Sheet Title

SECOND FLOOR POWER PLANS

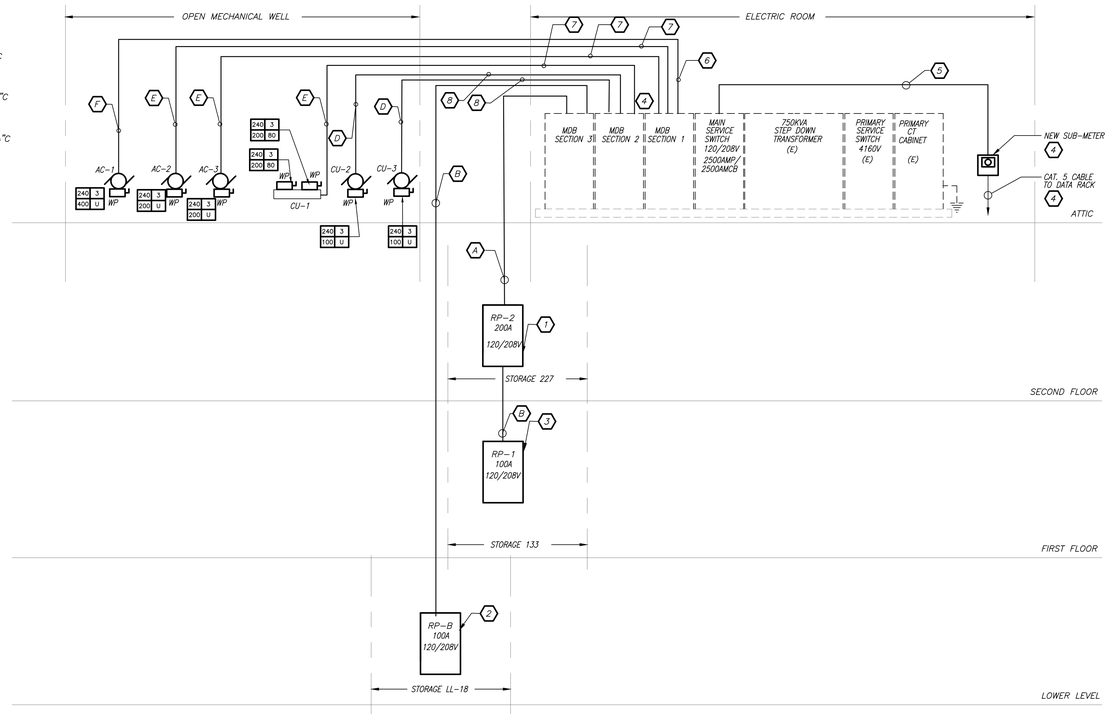
Job No.	Date
2019-1029	01/17/2019
Scale: AS NOTED	Drawn / Checked: BGA/BGA

Sheet Number

E303

FEEDER SCHEDULE:

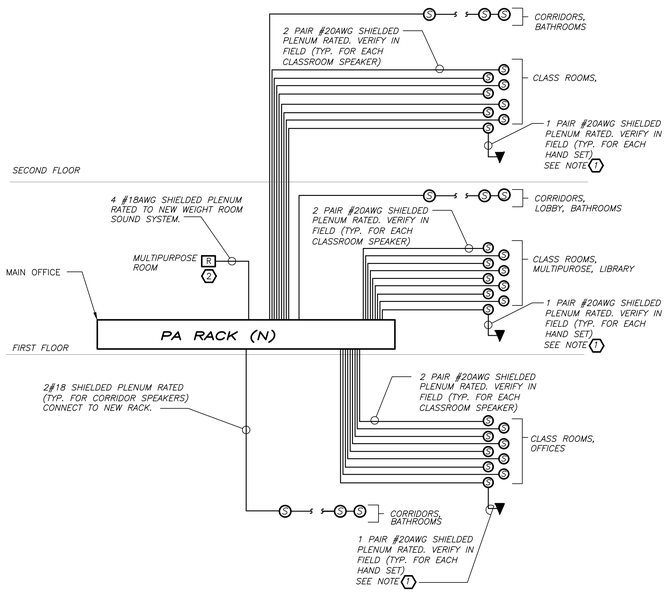
- (A) 4#3/0+1#6 GRD – 2"C
- (B) 4#2+1#8GRD – 1–1/4"C
- (C) 3#2/0+1#6 GRD – 2"C
- (D) 3#2+1#8 GRD – 1–1/4"C
- (E) 3#3/0+1#6 GRD – 2"C
- (F) 3#4/0+ 1#4 GRD – 2 ½"C



POWER RISER DIAGRAM (1 / E501) N.T.S.

PARTIAL POWER RISER DIAGRAM NOTES:

1. PROVIDE NEW 120/208V, 3 PHASE, 4 WIRE PANELBOARD. REFER TO PANEL SCHEDULE FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT. CONTRACTOR TO USE EXISTING SPARE 200AMP DISCONNECT SWITCH IN MDB AND PROVIDE 200A FUSES TO FEED THIS NEW PANELBOARD. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES.
2. PROVIDE NEW 120/208V, 3 PHASE, 4 WIRE PANELBOARD. REFER TO PANEL SCHEDULE FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT. CONTRACTOR TO USE EXISTING SPARE 100AMP DISCONNECT SWITCH IN MDB AND PROVIDE 100A FUSES TO FEED THIS NEW PANELBOARD. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES.
3. PROVIDE NEW 120/208V PANELBOARD. REFER TO PANEL SCHEDULE FOR PANEL SIZE, TYPE AND CIRCUIT BREAKER ARRANGEMENT. PROVIDE ALL REQUIRED AND NECESSARY ACCESSORIES.
4. PROVIDE NEW SUB-METER MANUFACTURED BY ELECTRO INDUSTRIES/GAUGETECH MODEL #SHARK 250: METER/TRANSDUCER-60-10-V4-D2-INP100S(I/O SLOT 1)-RS1S(I/O SLOT 2) – EL-WC6-1600-RA05-EL-LABOR. PROVIDE A CAT. 5 CABLE IN ¾" CONDUIT FROM METER TO SERVER RACK PATCH PANEL LOCATED BETWEEN CLASSROOM LL31 AND LL34. REFER TO DRAWING E301. COORDINATE WITH OWNER REQUIRED IP ADDRESS TO BE SUPPLIED TO VENDOR AS PART OF FACTORY ON-SITE LABOR FOR METER STARTUP, PROGRAMMING ETC. TO BE INCLUDED AS PART OF THIS EC SCOPE OF WORK. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION. COORDINATE ALL REQUIRED AND NECESSARY ACCESSORIES WITH MANUFACTURER BEFORE THE START OF ANY WORK TO PROVIDE A 100% TURN-KEY OPERATIONAL SUB-METER SYSTEM.
5. PROVIDE 12#12 IN ¾" CONDUIT TO INTERFACE WITH 120/208V MAIN DISCONNECT BUS. COORDINATE ALL REQUIRED AND NECESSARY ACCESSORIES WITH MANUFACTURER BEFORE THE START OF ANY WORK.
6. CONTRACTOR TO USE THE EXISTING 400-AMP BREAKER MADE AVAILABLE AFTER REMOVAL OF THE EXISTING HVAC EQUIPMENT. FUSE THE EXISTING BREAKER TO 225AMPS AND PROVIDE REQUIRED FUSE REDUCERS AND ACCESSORIES FOR COMPLETE OPERATIONAL SYSTEM. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION REGARDING FUSES.
7. CONTRACTOR TO USE THE EXISTING 200-AMP SWITCH FUSE BREAKER MADE AVAILABLE AFTER REMOVAL OF THE EXISTING HVAC EQUIPMENT. PROVIDE REQUIRED FUSE REDUCERS AND ACCESSORIES FOR COMPLETE OPERATIONAL SYSTEM. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION REGARDING FUSES.
8. CONTRACTOR TO USE EXISTING 100-AMP SWITCH FUSE BREAKER MADE AVAILABLE AFTER REMOVAL OF THE EXISTING HVAC EQUIPMENT. PROVIDE REQUIRED FUSE REDUCERS AND ACCESSORIES FOR COMPLETE OPERATIONAL SYSTEM. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION REGARDING FUSES.



GENERAL NOTES:

1. VERIFY EXACT QUANTITY AND LOCATION OF DEVICES ON PLAN DRAWINGS.
2. WIRING TYPES ARE SHOWN FOR REFERENCE ONLY. VERIFY EXACT WIRING REQUIREMENTS WITH MANUFACTURER.
3. ALL PROGRAMMING AND FINAL CONNECTIONS TO P.A. SYSTEM RACK SHALL BE BY SYSTEM MAINTENANCE CONTRACTOR. ALL COSTS ASSOCIATED WITH THIS SHALL BE BY ELECTRICAL CONTRACTOR.

WORK NOTES:

1. ALL SPEAKERS IN CLASSROOMS WHERE INDICATED ON FLOOR PLAN SHALL BE PROVIDED WITH HAND SETS AND WIRED AS INDICATED.
2. ELECTRICAL CONTRACTOR SHALL PROVIDE SIGNAL INTERFACE FROM MAIN PUBLIC ADDRESS SYSTEM RACK TO THE STAND ALONE SOUND SYSTEM AMPLIFIERS TO OVERRIDE THE LOCAL SOUND SYSTEM.

PART PUBLIC ADDRESS SYSTEM RISER DIAGRAM (3 / E501) N.T.S.

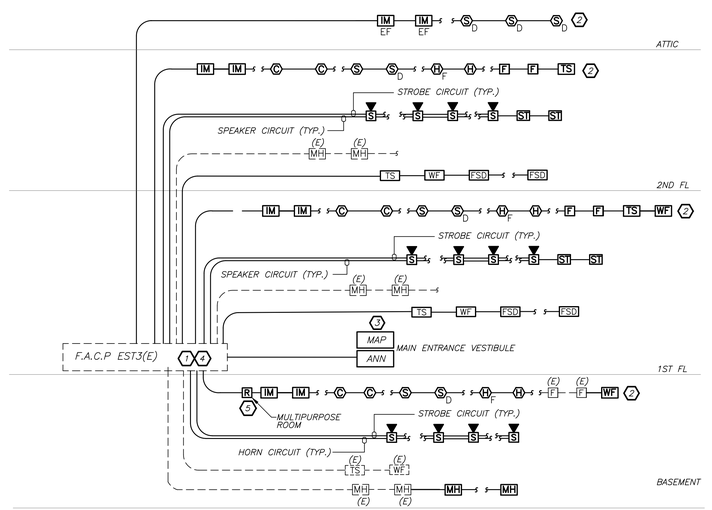
FIRE ALARM RISER GENERAL NOTES:

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

   SPEAKER WIRING – #16 AWG TWISTED
   STROBE WIRING – #14 AWG TWISTED
   SIGNAL WIRING – #14 AWG TWISTED/SHIELDED

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

   CONFIRM WIRING TYPE AND QUANTITY WITH FIRE ALARM SYSTEM MANUFACTURER PRIOR TO PURCHASING.
5. PROVIDE MC FIRE ALARM CABLE WITH RED STRIPE AS MANUFACTURED BY AFC SERIES 1800 WHEN CABLE IS CONCEALED OR ABOVE HUNG CEILING. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN FINISHED AREAS, CABLE SHALL RUN IN WIREMOLD V-700. WHEN FIRE ALARM CABLE IS RUN EXPOSED IN UNFINISHED AREAS, PROVIDE PLENUM RATED CABLE IN MIN. 3/4" CONDUIT.
6. STROBES SHALL HAVE A MINIMUM LIGHT OUTPUT OF 75 CANDELA AND A FLASH RATE OF 1–3 HZ.
7. PER NFPA72-18.4.3.1, TO MEET PUBLIC MODE AUDIBLE REQUIREMENTS, ALL SPEAKERS SHALL HAVE A SOUND LEVEL AT LEAST 15 dB ABOVE THE AVERAGE AMBIENT SOUND LEVEL.
8. WALL MOUNTED SPEAKER STROBE UNITS SHALL NOT HAVE ANY OTHER DEVICES OR APPURTENANCES WITHIN 5 FEET OF THE DEVICE. THE ENTIRE LENS OF THE UNIT SHALL NOT BE LESS THAN 80", AND NOT GREATER THAN 96" ABOVE FINISHED FLOOR, WHILE MAINTAINING 6" BELOW THE CEILING . DEVICES SHALL BE FLUSH MOUNTED IN ALL FINISHED AREAS. PROVIDE DOUBLE DEEP DEVICE BOX IN WALL.
9. SHUTDOWN OF HVAC SYSTEM EQUIPMENT (NOT LIMITED TO, ROOF TOP, EXHAUST FANS, ETC.) OF 1000 CFM OR GREATER, SHALL BE PERFORMED VIA A RELAY INTERFACE SYSTEM. SEND SIGNAL TO BUILDING AUTOMATED TEMPERATURE CONTROL (ATC) SYSTEM INDICATING SHUTDOWN HAS OCCURRED. EQUIPMENT RESTART SHALL BE BY BUILDING 'ATC' SYSTEM UPON FIRE ALARM RESET TO NORMAL MODE. RESTART OF EQUIPMENT SHALL BE SEQUENTIAL.
10. AFTER THE SYSTEM IS COMPLETE, TEST ALL COMPONENTS IN ACCORDANCE WITH SEQUENCE OF OPERATION PRIOR TO FIRE DEPARTMENT INSPECTION.
11. ALL PULL STATIONS SHALL BE PROVIDED WITH CLEAR PROTECTIVE LEXAN COVER. COVER SHALL BE AS MANUFACTURED BY SAFETY TECHNOLOGY INTERNATIONAL INC. CAT. #STI 1100 STOPPER II.
12. COORDINATE F.A WORK WITH F.A VENDOR.
13. VERIFY EXACT QUANTITIES OF FIRE ALARM DEVICES WITH PLANS.
14. ALL DEVICES SHALL BE SUPERVISED AS PER N.F.P.A. 72. PROVIDE END OF LINE RESISTORS AS REQUIRED PER INDIVIDUAL MANUFACTURER. PROVIDE LOAD RELAYS AS REQUIRED FOR PROPER OPERATION OF EQUIPMENT.
15. FIRE SMOKE DAMPERS SHALL BE TIED INTO FIRE ALARM SYSTEM TO SHUT DOWN UPON SMOKE DETECTION ACTIVATION. PROVIDE ALL WIRING, RELAYS, ETC. AS REQUIRED FOR COMPLETE INSTALLATION.
16. PROVIDE WIRE GUARDS FOR ALL FIRE ALARM DEVICES LOCATED IN BOILER ROOMS AND MECHANICAL EQUIPMENT ROOMS.
17. CARBON MONOXIDE AND GAS LEAK DETECTOR SHALL RING LOCAL TROUBLE BELL AT FIRE ALARM CONTROL PANEL FOR SUPERVISORY CONDITION ONLY.
18. THE CARBON MONOXIDE DETECTOR SHALL HAVE AN SOUNDER BASE AND INITIATE A SUPERVISORY SIGNAL WHEN 70 PARTS PER MILLION (ppm) ARE REACHED WITHIN 60 TO 240 MINUTES OR 150ppm ARE REACHED WITHIN 10 TO 50 MINUTES, OR 400ppm ARE REACHED WITHIN 4 TO 15 MINUTES AS REQUIRED BY UL 2034.
19. THIS CONTRACTOR IS RESPONSIBLE FOR ALL PROGRAMMING AND MAPPING OF EACH DEVICE AS REQUIRED.
20. CONTRACTOR TO TIE ALL EXISTING TO REMAIN FIRE ALARM DEVICES TO NEW FACP.



FIRE ALARM RISER DIAGRAM (2 / E501) N.T.S.

FIRE ALARM RISER WORK NOTES:

1. EXPAND EXISTING F.A.C.P. TO ACCOMMODATE VOICE EVAC SYSTEM. PROVIDE ALL NECESSARY EXPANSION COMPONENTS (LOOP CARDS, ETC.) BOOSTER POWER SUPPLIES, PROGRAMMING, UPDATE DATA BASE, TESTING, ETC. TO INTERFACE ALL COMPONENTS AND WIRING INTO THE PANEL. PANEL IS LOCATED IN FIRST FLOOR CORRIDOR.
2. PROVIDE DEVICE ADDRESS WITH A PERMANENT TYPE LABEL FOR ALL INITIATING DEVICES.
3. PROVIDE NEW REMOTE ANNUNCIATOR AND WALL MAP LAYOUT INDICATING ALL THE FIRE ALARM DEVICE LOCATIONS WITH DEVICE ADDRESSES. WALL MAP SHALL BE INSTALLED IN MAIN VESTIBULE. COORDINATE WITH BUILDING OWNER AND ARCHITECT FOR ALL ROOM NAMES AND ROOM NUMBERS BEFORE PROGRAMMING FIRE ALARM CONTROL PANEL.
4. ALL EXISTING PHONE LINES TO REMAIN TO FIRE ALARM CONTROL PANEL DIALER TO SEND SIGNAL TO CENTRAL MONITORING STATION.
5. PROVIDE AND WIRE SIGA-CR RELAY TO SHUTDOWN STAND ALONE SOUND SYSTEM AMPLIFIER IN THE MULTIPURPOSE ROOM WHEN FIRE ALARM IS INITIATED.

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

BETHUNE LEARNING CENTER

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Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2019	SED ISSUE

Sheet Title

RISERS

Job No.	Date
2019-1029	01/17/2019
Scale: AS NOTED	Drawn / Checked: BGA/BGA

Sheet Number

E501

NEW ELECTRICAL PANEL SCHEDULE

PNL: RP-2
208Y/120, 3 PHASE, 4 WIRE
22 ,000MIN A.I.C. SYM
NEUTRAL: 100%

MOUNTING: SURFACE X / (NEMA 1) FLUSH / IN MCC
MAIN LUGS ONLY / DOUBLE LUGS / FEED THRU LUG / SHUNT TRIP MAIN
MAIN C BKR- 200A/3P
MAIN BUS - 200A
GROUND BUS: X
ISOLATED GROUND BUS:
TVSS:
NUMBER OF POLES: 42

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE A	B	C	KVA / PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	20	CORR LIGHTING	2#12+#12G	3/4	0.60			0.50			3/4	2#12+#12G	CORR LIGHTING	20	2
3	20	BATHROOMLIGHT	2#12+#12G	3/4		0.30			0.30		3/4	2#12+#12G	BATHROOMLIGHT	20	4
5	20	RM 221	2#12+#12G	3/4			0.90			0.90	3/4	2#12+#12G	RM 222	20	6
7	20	RM 224	2#12+#12G	3/4	0.72			0.72			3/4	2#12+#12G	RM 225	20	8
9	20	RM 226	2#12+#12G	3/4		0.72			0.72		3/4	2#12+#12G	RM 234	20	10
11	20	RM 235	2#12+#12G	3/4			0.90			0.72	3/4	2#12+#12G	RM 236	20	12
13	20	RM 202	2#12+#12G	3/4	0.90			0.90			3/4	2#12+#12G	RM 203	20	14
15	20	RM 204	2#12+#12G	3/4		0.90			0.90		3/4	2#12+#12G	RM 205	20	16
17	20	RM 206	2#12+#12G	3/4			0.90			0.72	3/4	2#12+#12G	RM 206	20	18
19	20	RM 208	2#12+#12G	3/4	0.90			1.30			3/4	2#12+#12G	HAND DRYER	20	20
21	20	HAND DRYER	2#12+#12G	3/4		1.30			0.54		3/4	2#12+#12G	BATHROOM GFI	20	22
23	20	HAND DRYER	2#12+#12G	3/4			1.30			1.30	3/4	2#12+#12G	HAND DRYER	20	24
25	20	HAND DRYER	2#12+#12G	3/4	1.30						-	-	SPARE	20	26
27	100	RP-1	-	-		8.80					-	-	SPARE	20	28
29	3		-	-			5.60				-	-	SPARE	20	30
31	3		-	-	7.10						-	-	SPARE	20	32
33	20	SPARE	-	-							-	-	SPARE	20	34
35	20	SPARE	-	-							-	-	SPARE	20	36
37	20	SPARE	-	-							-	-	SPARE	20	38
39	20	SPARE	-	-							-	-	SPARE	20	40
41	20	SPARE	-	-							-	-	SPARE	20	42
		SUBTOTALS			11.5	12.0	9.60	3.42	2.46	3.64			SUBTOTALS		
		TOTAL LOADS			14.9 KVA	PHASE A						LIGHTING:	1.70 KVA		
					14.5 KVA	PHASE B						RECEPTACLE:	12.96 KVA		
					13.2 KVA	PHASE C						KITCHEN:	0.00 KVA		
		TOTAL CONN. LOAD			42.7 KVA	118 A						MOTOR:	0.00 KVA		
		TOTAL DEMAND LOAD			41.2 KVA	114 A						POWER:	28.00 KVA		
												TOTAL:	42.66 KVA		

LIGHTING INVERTER SCHEDULE

INVERTER NAME	INVERTER CKT NO.	TRIP (AMP)	AREA SERVED	LOAD (VA)	TOTAL LOAD (VA)	CATALOG #
INV-B	1	20	CORRIDOR LIGHT	272	447	DUAL LITE DLS-525-120-A-20-03 120V/1PH INPUT, 3-120V O/P BRK
	2	20	CORRIDOR LIGHT	175		
	3	20				
INV-1	1	20	CORRIDOR LIGHT	164	472	DUAL LITE DLS-525-120-A-20-03 120V/1PH INPUT, 3-120V O/P BRK
	2	20	MULTIPURPOSE ROOM	308		
	3	20				
INV-2	1	20	CORRIDOR LIGHT	200	410	DUAL LITE DLS-525-120-A-20-03 120V/1PH INPUT, 3-120V O/P BRK
	2	20	CORRIDOR LIGHT	210		
	3	20				

NEW ELECTRICAL PANEL SCHEDULE

PNL: RP-1
208Y/120, 3 PHASE, 4 WIRE
14 ,000MIN A.I.C. SYM
NEUTRAL: 100%

MOUNTING: SURFACE X / (NEMA 1) FLUSH / IN MCC
MAIN LUGS ONLY / DOUBLE LUGS / FEED THRU LUG / SHUNT TRIP MAIN
MAIN C BKR- 100A/3P
MAIN BUS - 100A
GROUND BUS: X
ISOLATED GROUND BUS:
TVSS:
NUMBER OF POLES: 30

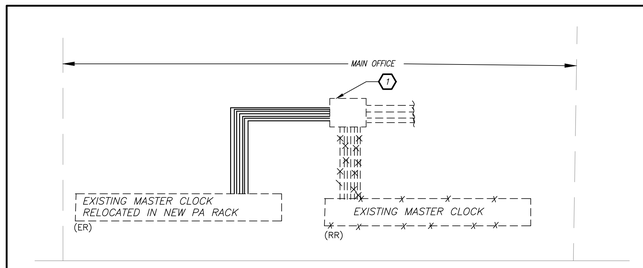
CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE A	B	C	KVA / PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	20	CORR LIGHTING	2#12+#12G	3/4	1.10			0.60			3/4	2#12+#12G	BATHROOMLIGHT	20	2
3	20	CORR LIGHTING	2#12+#12G	3/4		0.60			0.30		3/4	2#12+#12G	BATHROOMLIGHT	20	4
5	20	RM 132	2#12+#12G	3/4			0.70			0.90	3/4	2#12+#12G	RM 140	20	6
7	20	RM 141	2#12+#12G	3/4	0.72			0.72			3/4	2#12+#12G	RM 142	20	8
9	20	RM 101	2#12+#12G	3/4		0.72			0.90		3/4	2#12+#12G	RM 102	20	10
11	20	RM 110	2#12+#12G	3/4			0.72			0.90	3/4	2#12+#12G	RM 111	20	12
13	20	RM 112	2#12+#12G	3/4	0.90						-	-	SPARE	20	14
15	20	Multipurpose LTG	2#12+#12G	3/4		0.40			1.00		3/4	2#12+#12G	Multipurpose LTG	20	16
17	20	HAND DRYER	2#12+#12G	3/4			1.30			1.30	3/4	2#12+#12G	HAND DRYER	20	18
19	20	HAND DRYER	2#12+#12G	3/4	1.30			1.30			3/4	2#12+#12G	HAND DRYER	20	20
21	20	HAND DRYER	2#12+#12G	3/4		1.30			0.36		3/4	2#12+#12G	BATHROOM GFI	20	22
23	20	HAND DRYER	2#12+#12G	3/4			1.30				-	-	SPARE	20	24
25	20	HAND DRYER	2#12+#12G	3/4	1.30						-	-	SPARE	20	26
27	20	SPARE	-	-							-	-	SPARE	20	28
29	20	SPARE	-	-							-	-	SPARE	20	30
		SUBTOTALS			5.32	3.02	4.02	2.62	2.56	3.10			SUBTOTALS		
		TOTAL LOADS			7.9 KVA	PHASE A						LIGHTING:	2.60 KVA		
					5.6 KVA	PHASE B						RECEPTACLE:	8.58 KVA		
					7.1 KVA	PHASE C						KITCHEN:	0.00 KVA		
		TOTAL CONN. LOAD			20.6 KVA	57.0 A						MOTOR:	0.00 KVA		
		TOTAL DEMAND LOAD			20.6 KVA	57.0 A						POWER:	9.46 KVA		
												TOTAL:	20.64 KVA		

NEW ELECTRICAL PANEL SCHEDULE

PNL: RP-B
208Y/120, 3 PHASE, 4 WIRE
14 ,000MIN A.I.C. SYM
NEUTRAL: 100%

MOUNTING: SURFACE X / (NEMA 1) FLUSH / IN MCC
MAIN LUGS ONLY X / DOUBLE LUGS / FEED THRU LUG / SHUNT TRIP MAIN
MAIN C BKR- 100A/3P
MAIN BUS - 100 A
GROUND BUS: X
ISOLATED GROUND BUS:
TVSS:
NUMBER OF POLES: 30

CKT No.	TRIP (AMP)	LOAD	WIRE	CND. (IN.)	KVA / PHASE A	B	C	KVA / PHASE A	B	C	CND. (IN.)	WIRE	LOAD	TRIP (AMP)	CKT No.
1	20	CORR LIGHT	2#12+#12G	3/4	0.90			0.60			3/4	2#12+#12G	BATHROOM LIGHT	20	2
3	20	HAND DRYER	2#12+#12G	3/4		0.30			0.30		3/4	2#12+#12G	GFI	20	4
5	20	HAND DRYER	2#12+#12G	3/4			0.90			0.90	3/4	2#12+#12G	GFI	20	6
7	20	HAND DRYER	2#12+#12G	3/4	0.72			0.72			3/4	2#12+#12G		20	8
9	20	ROOM LL08	2#12+#12G	3/4		0.72			0.90		3/4	2#12+#12G	ROOM LL03	20	10
11	20	HAND DRYER	2#12+#12G	3/4			0.90			0.72	3/4	2#12+#12G	HAND DRYER	20	12
13	20	GFI	2#12+#12G	3/4	0.54			0.90			3/4	2#12+#12G	HAND DRYER	20	14
15	20	ROOM 63 RECP	2#12+#12G	3/4		1.08			0.34		3/4	2#12+#12G	ROOM 58 RECP	20	16
17	20	ROOM 58 RECP	2#12+#12G	3/4			0.34			0.50	3/4	2#12+#12G	EF	20	18
19	3	PUMP 9			1.30			1.30			3/4	3#10+#10G	PUMP 10	3	20
21				3/4		1.30			1.30						22
23	30						1.30			1.30				30	24
25	20	SPARE	-	-							-	-	SPARE	20	26
27	20	SPARE	-	-							-	-	SPARE	20	28
29	20	SPARE	-	-							-	-	SPARE	20	30
		SUBTOTALS			3.46	3.40	3.44	3.52	2.84	3.42			SUBTOTALS		
		TOTAL LOADS			7.0 KVA	PHASE A						LIGHTING:	2.10 KVA		
					6.2 KVA	PHASE B						RECEPTACLE:	10.18 KVA		
					6.9 KVA	PHASE C						KITCHEN:	0.00 KVA		
		TOTAL CONN. LOAD			20.1 KVA	56.0 A						MOTOR:	7.80 KVA		
		TOTAL DEMAND LOAD			20.0 KVA	55.0 A						POWER:	0.00 KVA		
												TOTAL:	20.08 KVA		



MASTER CLOCK RISER WORK NOTES:

(7) PROVIDE NEW 12"X12"X6" SPLICE BOX WITH TERMINAL BLOCKS TO EXTEND ALL WIRING FOR CLOCKS TO NEW LOCATION OF THE MASTER CLOCK. SPLICING WIRING TOGETHER WITH TWIST TIES/TAPE IS NOT PERMITTED. PULL BOX SHALL BE INSTALLED ABOVE CEILING ON THE FIRST FLOOR. REFER TO E102 AND E302 FOR ADDITIONAL INFORMATION.

MASTER CLOCK RISER DIAGRAM (NEW WORK) — 1 / E601 — N.T.S.

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

LIGHTING FIXTURE SCHEDULE

TYPE	MOUNTING	LAMPS	DESCRIPTION	MANUFACTURER & CAT.#
A	RECESSED	34 WATTS LED UNV.	2'X4' RECESSED LED FIXTURE. 4300 LUMENS, 80 CRI, 3000K COLOR TEMPERATURE. UNIVERSAL VOLTAGE, 0-10V DIMMING. SMOOTH DIFFUSED LENS.	MANUFACTURER: DAYBRITE SIGNIFY MODEL# 2-STX-G-43L-830-4-DS-UNV-DIM
B	RECESSED	34 WATTS LED UNV.	1'X4' RECESSED LED FIXTURE. 3800 LUMENS, 80 CRI, 3000K COLOR TEMPERATURE. UNIVERSAL VOLTAGE. SMOOTH DIFFUSED LENS.	MANUFACTURER: DAYBRITE SIGNIFY MODEL# 1-STX-G-38L-830-4-D-UNV
B EMR	RECESSED	34 WATTS LED UNV.	SAME AS TYPE "B" EXCEPT CIRCUITED TO EMERGENCY INVERTER VIA EMERGENCY RELAY TO OVERRIDE SWITCHING.	MANUFACTURER: DAYBRITE SIGNIFY MODEL# 1-STX-G-38L-830-4-D-UNV
C	RECESSED	36 WATTS LED UNV.	6" SQUARE RECESSED DOWNLIGHT. 3000 LUMENS, 80CRI, 3000K COLOR TEMPERATURE. MEDIUM BEAM. WHITE MATTE FINISH. WHITE FLANGE.	MANUFACTURER: LIGHTOLIER SIGNIFY MODEL# 6S-R-C6L-30-8-30-M-Z10-U-C6-S-DL-W-WH
C EMB	RECESSED	36 WATTS LED UNV.	SAME AS TYPE "C" EXCEPT WITH EMERGENCY BATTERY BACK-UP	MANUFACTURER: LIGHTOLIER SIGNIFY MODEL# 6S-R-C6L-30-8-30-M-Z10-U-C6-S-DL-W-WH-CAEM
D	SURFACE	26 WATTS LED UNV.	LED TYPE DECORATIVE WALL SCONCE. 2100 LUMENS, 30K COLOR TEMPERATURE. 0-10V DIMMING.	MANUFACTURER: OCL FIORI MODEL# FR1-S15C-13-NF-BLP-LED2-UNV-DMO
D EMR	SURFACE	26 WATTS LED UNV.	SAME AS TYPE "D" EXCEPT CIRCUITED TO EMERGENCY INVERTER VIA EMERGENCY RELAY TO OVERRIDE SWITCHING.	MANUFACTURER: OCL FIORI MODEL# FR1-S15C-13-NF-BLP-LED2-UNV-DMO
E	RECESSED TROFFER	27 WATTS LED UNV.	2'X4' RECESSED LED TROFFER FIXTURE 3800 LUMENS, 80 CRI, 3000K COLOR TEMPERATURE.FLAT STEEL DOOR FRAME. 50% DIFFUSE LENS.	MANUFACTURER: DAYBRITE SIGNIFY #2-T-G-38L-830-4-FS-02F-UNV-DIM
F	PENDENT	69 WATTS LED UNV.	48" ARC RADIUS. 3800 LUMENS, DIRECT RGBW LIGHT 3000K COLOR TEMPERATURE, 80 CRI. (DIRECT/INDIRECT) WHITE FINISH, 50% OUTPUT REDUCTION, OPAL DIFFUSER.	MANUFACTURER: BETA CALCO KURL RGBW MODEL# 95-1210-D30-N30-WH-PR1-OD
F EMR	PENDENT	69 WATTS LED UNV.	SAME AS TYPE "F" EXCEPT CIRCUITED TO EMERGENCY INVERTER VIA EMERGENCY RELAY TO OVERRIDE SWITCHING.	MANUFACTURER: BETA CALCO KURL RGBW MODEL# 95-1210-D30-N30-WH-PR1-OD
G	SURFACE	47 WATTS LED UNV.	8" SURFACE MOUNTED LED TYPE FIXTURE. 5800 LUMENS, 3000K COLOR TEMPERATURE, 80 CRI. SILVER METALLIC FINISH.	MANUFACTURER: BETA CALCO MICRO QUAD II #98-3660-WD71-D30-N30-D1-MS-PR1
G EMR	SURFACE	47 WATTS LED UNV.	SAME AS TYPE "G" EXCEPT CIRCUITED TO EMERGENCY INVERTER VIA EMERGENCY RELAY TO OVERRIDE SWITCHING.	MANUFACTURER: BETA CALCO MICRO QUAD II #98-3660-WD71-D30-N30-D1-MS-PR1
H	PENDENT	24 WATTS LED UNV.	24" DIAMETER LED TYPE DECORATIVE FIXTURE. 3000K COLOR TEMPERATURE. CANOPY WITH DRIVER FOR BUBBLE 1000, 75% OUTPUT REDUCTION, WITH SURFACE MOUNTING KIT.	MANUFACTURER: BETA CALCO BUBBLE RGB #AL1-J2-CA1-L1-BC1
H EMR	PENDENT	24 WATTS LED UNV.	SAME AS TYPE "H" EXCEPT CIRCUITED TO EMERGENCY INVERTER VIA EMERGENCY RELAY TO OVERRIDE SWITCHING.	MANUFACTURER: BETA CALCO BUBBLE RGB #AL1-J2-CA1-L1-BC1
J	PENDENT	30 WATTS LED 120V	DECORATIVE PENDENT MOUNTED LED TYPE FIXTURE, 3900 LUMENS, 2700K COLOR TEMPERATURE, 80 CRI. 0-10V DIMMING.	MANUFACTURER: ALCO 90 LUMINART #ALCES090101-853-856-120-010V
J EMR	PENDENT	30 WATTS LED 120V	SAME AS TYPE "J" EXCEPT CIRCUITED TO EMERGENCY INVERTER VIA EMERGENCY RELAY TO OVERRIDE SWITCHING.	MANUFACTURER: ALCO 90 LUMINART #ALCES090101-853-856-120-010V
K	PENDENT	42 WATTS LED UNV	LED LINEAR SUSPENDED 5500 LUMENS, 3500K COLOR TEMP, 80 CRI WITH BRACKET AND CHAIN.	MANUFACTURER: DAYBRITE SIGNIFY #LBX-55L-835-UNV-FKR-126
L	RECESSED	35 WATTS LED UNV	6" SEALED, RECESSED DOWNLIGHT WITH FLISH LENS TRIM, LED TYPE. HIGH ABUSE APPLICATION. 4000K COLOR TEMPERATURE. 80 CRI. WIDE DISTRIBUTION. CLEAR SEMI SPECULAR REFLECTOR FINISH. 6" ROUGH IN. UNIVERSAL VOLTAGE. 0-10V DIMMING.	KENALL #HADL6-FF-5BR-33L-40K8 W-CSS-9-RIG6-DV-DIM1
L EMB	RECESSED	35 WATTS LED UNV	SAME AS TYPE "L" EXCEPT WITH EMERGENCY BATTERY BACK-UP	KENALL #HADL6-FF-5BR-33L-40K8 W-CSS-9-RIG6-DV-DIM1-LEL
M	COVE	10W/FT LED UNV	RIGID LED LINEAR LIGHTING 3000K COLOR TEMP 80CRI, WITH INTEGRAL POWER SUPPLY, REFER TO E200 SERIES FOR TOTAL LENGTH. PROVIDE ALL ACCESSORIES FOR MOUNTING IN 2FT INCREMENTS.	TEMPO #C6-R-1060-0-UNV-E-10-30-WH-46FT
M-1	COVE	7W/FT LED UNV	RIGID LED LINEAR LIGHT FROST LENS 3000L COLOR TEMP 80CRI WITH REMOTE POWER SUPPLY NON DIMMING SURGE SUPPRESSION DEVICE. PROVIDE FEED CABLES, JUMPERS AND MOUNTING HARDWARE FOR COMPLETE INSTALLTION	TEMPO #C4-R-LL-2-7-30-NA-10 PWR-UNV-EM-060-SSD-120
P	SURFACE MOUNTED	14 WATTS LED UNV	WALL MOUNTED INDOOR LED SCONCE. 24" LONG. 1100 LUMENS, 30K COLOR TEMPERATURE. MATTE WHITE DIFFUSER. MATTE WHITE FINISH. 0-10V DIMMING	MANUFACTURER: OCL UNA #UA1-S15A-24-MW-MWP-LED1-30K-UNV-DM1
Q	SURFACE MOUNTED	26 WATTS LED UNV	PROTRUDED RING LED 2700 LUMENS, 3000K COLOR TEMP, 80CRI WITH REMOTE EMERGENCY SYSTEM	MANUFACTURER: BETA CALCO MICRO RING II #95-3410-D30-MS-PRO
Q EMR	SURFACE MOUNTED	26 WATTS LED UNV	SAME AS TYPE "Q" EXCEPT CIRCUITED TO EMERGENCY INVERTER VIA EMERGENCY RELAY TO OVERRIDE SWITCHING.	MANUFACTURER: BETA CALCO MICRO RING II #95-3410-D30-MS-PRO
	WALL MOUNTED	6 WATTS LED UNV	L.E.D. STEEL HOUSING EXIT COMBINATION W/HEADS WITH 90 MINUTE EMERGENCY BATTERY PACK	ENCORE LIGHTING #LC8-2-PER DWG
	SURFACE WALL/CEILING MOUNTED	3 WATTS LED UNV	L.E.D. TYPE EXIT LIGHT, STEEL HOUSING, NUMBER OF FACES AND DIRECTIONAL ARROWS AS INDICATED ON PLANS. SELF POWERED MODEL WITH 90 MINUTE EMERGENCY BATTERY PACK.	ENCORE LIGHTING #LSE-8-R-PER DWG

BETHUNE LEARNING CENTER

Alterations

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NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

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914.326.6060 GENERAL@BGA-ENG.com www.BGA-ENG.com

Key Plan

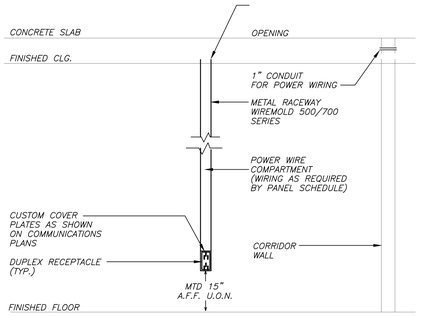
Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2019	SED ISSUE

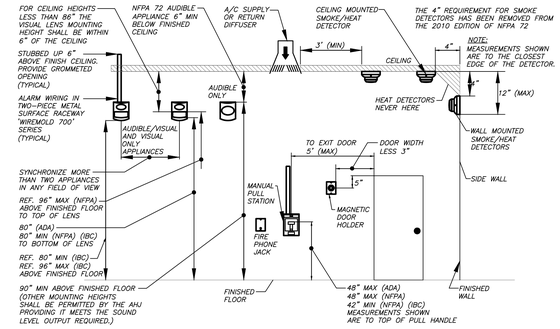
Sheet Title
SCHEDULES

Job No. 2019-1029
Date 01/17/2019
Scale AS NOTED
Drawn / Checked BGA/BGA

Sheet Number
E601

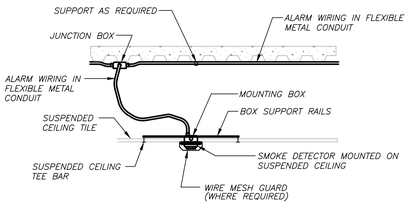


POWER DROP FOR ALL EXISTING WALLS 3/E701 N.T.S.

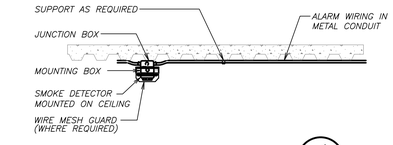


DEVICE MOUNTING HEIGHT REFERENCE (PER NFPA 72)

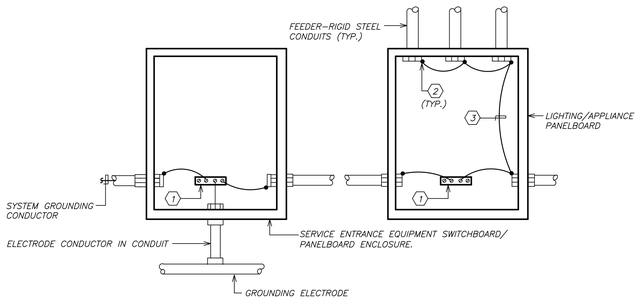
FIRE ALARM DEVICES – MOUNTING DETAIL 2/E701 N.T.S.



TYPICAL FOR ALL SMOKE DETECTORS MOUNTED ON SUSPENDED CEILINGS



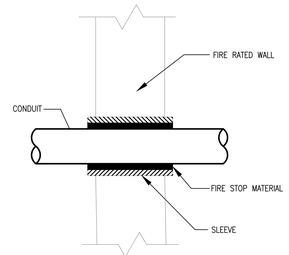
SMOKE DETECTOR MOUNTING DETAIL 1/E701 N.T.S.



NOTES:

1. PANELBOARD GROUND BUS
2. GROUNDING BUSHING
3. GROUNDING CONDUCTOR

RACEWAY EQUIPMENT GROUNDING SYSTEM 7/E701 N.T.S.



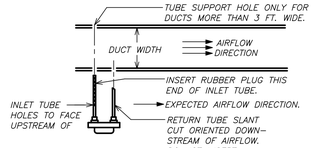
CONDUIT PENETRATION THRU FIRE RATED WALL

NOTES:

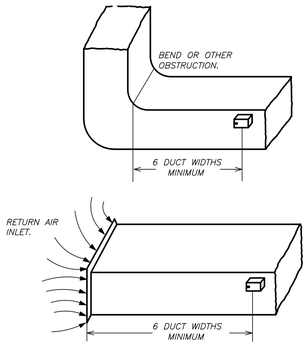
1. *USE WHERE CONDUITS PASS THRU FIRE RATED WALL.*
2. *WHERE CONDUITS PASS THRU CONCRETE BEAM, BRICK WALL, OR WATER PROOF FLOORS, USE PIPE SLEEVES.*

CONDUIT PENETRATION DETAILS 6/E701 N.T.S.

INLET TUBE ORIENTATION

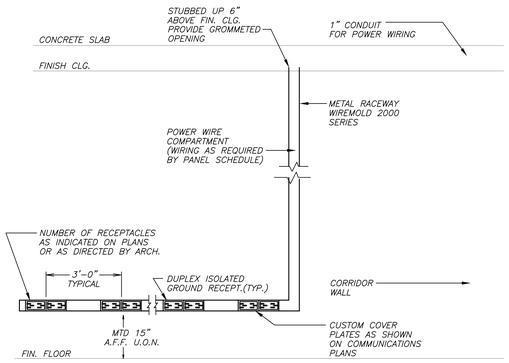


INLET TUBE ORIENTATION 5/E701 N.T.S.

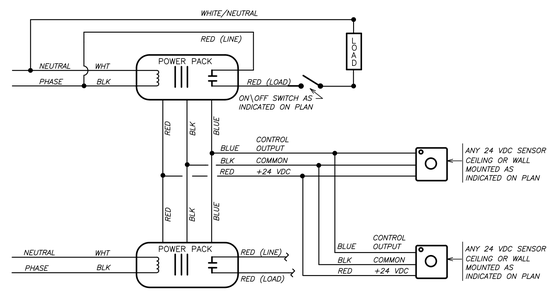


NOTE:
1. PROVIDE DUCT DETECTOR ON RETURN SIDE OF DUCT WORK FOR UNITS GREATER THAN 2000CFM AS PER INTERNATIONAL CODE 606.2.1.
2. FOR UNITS GREATER THAN 15,000CFM SERVING MULTIPLE FLOORS PROVIDE DUCT DETECTOR ON EACH FLOOR WHERE IT PENETRATES AS PER INTERNATIONAL CODE 606.2.3.

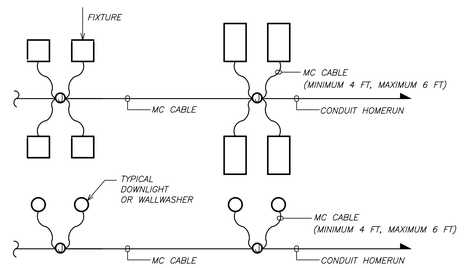
TYPICAL DUCT DETECTOR PLACEMENT ON RETURN SIDE OF DUCT. 4/E701 N.T.S.



POWER DROP FOR MULTIPLE OUTLETS FOR ALL EXISTING WALLS 10/E701 N.T.S.



TYPICLAL CEILING MOUNTED SENSOR WIRING DIAGRAM 9/E701 N.T.S.



NOTES:

1. *LIGHTING FIXTURES SHALL BE CIRCUITED IN ACCORDANCE WITH CIRCUITING AS INDICATED ON THE LIGHTING DRAWINGS.*

LIGHTING FIXTURE CIRCUITING DETAIL 8/E701 N.T.S.

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

BETHUNE LEARNING CENTER

Alterations

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NY SED PROJECT CONTROL NO.
66-04-11-02-0-003-002

CONSTRUCTION DOCUMENTS

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Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2019	SED ISSUE

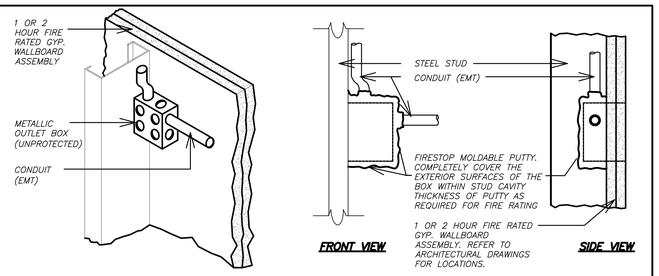
Sheet Title

DETAILS

Job No.	Date
2019-1029	01/17/2019
Scale	Drawn / Checked
AS NOTED	BGA/BGA

Sheet Number

E701

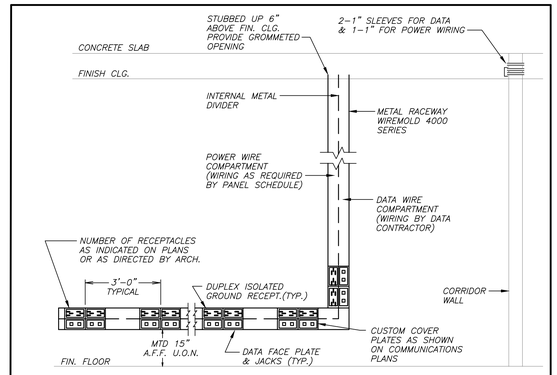


NOTES:

1. CLEARANCE BETWEEN OUTLET BOX AND WALL BOARD 1/8" MAX.
2. PROVIDE FIRE STOPPING IF:
   A. THE SURFACE AREA OF INDIVIDUAL METALLIC OUTLET OR SWITCH BOXES EXCEEDS 16 SQ. INCHES.
   B. THE AGGREGATE SURFACE AREA OF THE BOXES EXCEEDS 100 SQ. INCHES PER 100 SQ. FT. OF WALL SURFACE.
3. BOXES LOCATED ON OPPOSITE SIDE OF WALLS OR PARTITIONS SHALL BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24". MINIMUM DISTANCE SEPARATION MAY BE REDUCED WHEN OPENING PROTECTIVE MATERIAL ARE INSTALLED TO THE REQUIREMENTS OF THEIR CLASSIFICATION.
4. USE THE APPROPRIATE FIRESTOPPING PUTTY FOR METALLIC OR NON-METALLIC OUTLET BOXES RESPECTIVELY.

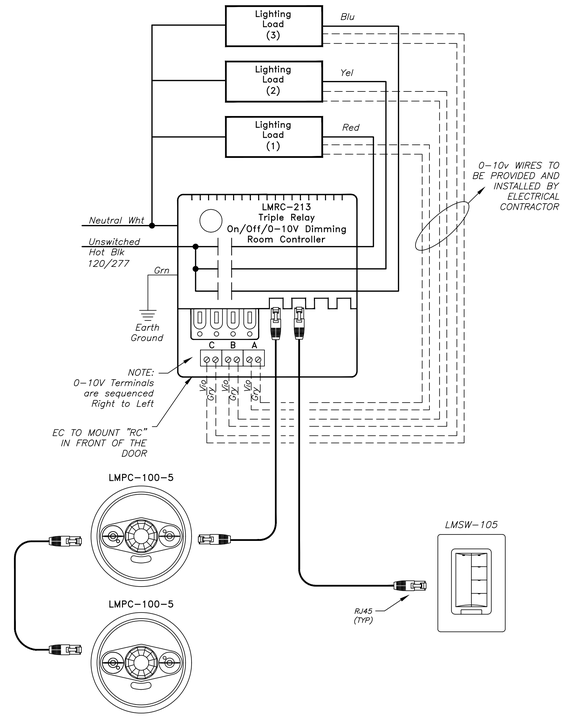
DETAIL OF WALL BOX FIRE PROTECTION

2 / E702 N.T.S.



POWER/DATA DROP FOR ALL EXISTING WALLS

1 / E702 N.T.S.



TYPICAL 3-ZONE 0-10V ROOM CONTROLLER (SIMILAR TO WATTSTOPPER)

3 / E702 N.T.S.

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

BETHUNE LEARNING CENTER

Alterations

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NY SED PROJECT CONTROL NO.

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CONSTRUCTION DOCUMENTS

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Key Plan

Professional Seal

No.	Date	Issue
2	11/06/2020	ISSUE FOR BID
1	01/17/2019	SED ISSUE

Sheet Title

DETAILS

Job No.	Date
2019-1029	01/17/2019
Scale: AS NOTED	Drawn / Checked: BGA/BGA

Sheet Number

E702