BEDFORD CENTRAL SCHOOL DISTRICT

DISTRICT ADMINISTRATION OFFICES

632 S BEDFORD RD, BEDFORD, NY 10506

PHASE 1A - BOND IMPROVEMENTS

AT

FOX LANE HIGH SCHOOL

632 S BEDFORD RD BEDFORD, NY 10506 SED No.:66-01-02-06-0-003-021 BBS No.:22-225A

FOX LANE MIDDLE SCHOOL

632 S BEDFORD RD BEDFORD, NY 10506 SED No.:66-01-02-06-0-007-011 BBS No.:22-225B

MOUNT KISCO ELEMENTARY SCHOOL

47 W HYATT AVE MT KISCO, NY 10549 SED No.:66-01-02-06-0-006-015 BBS No.:22-225C

BEDFORD VILLAGE ELEMENTARY SCHOOL

45 COURT RD BEDFORD, NY 10506 SED No.:66-01-02-06-0-002-016 BBS No.:22-225D

BEDFORD HILLS ELEMENTARY SCHOOL

123 BABBITT RD BEDFORD HILLS, NY 10507 SED No.:66-01-02-06-0-004-020 BBS No.:22-225E

WEST PATENT ELEMENTARY SCHOOL

80 W PATENT RD BEDFORD HILLS, NY 10507 SED No.:66-01-02-06-0-009-014 BBS No.:22-225F

POUND RIDGE ELEMENTARY SCHOOL

7 POUND RIDGE RD POUND RIDGE, NY 10576 SED No.:66-01-02-06-0-001-016 BBS No.:22-225G

FOX LANE HIGH SCHOOL

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A2.02 ENLARGED PLANS - AREA C

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FOX LANE MIDDLE SCHOOL

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A1.00 ABATEMENT PLANS
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MOUNT KISCO ELEMENTARY SCHOOL

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BEDFORD VILLAGE ELEMENTARY SCHOOL

ARCHITECTUR

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\$1.00 FOUNDATION AND FRAMING PLANS
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E1.00 PARTIAL BASEMENT AND FIR E1.01 PARTIAL MAIN LOBBY PLAN

WEST PATENT ELEMENTARY SCHOOL

ARCHITECTURAL

A0.01 FIRST FLOOR KEY PLAN
A2.01 DEMO AND PROPOSED PLAN AND DETAILS

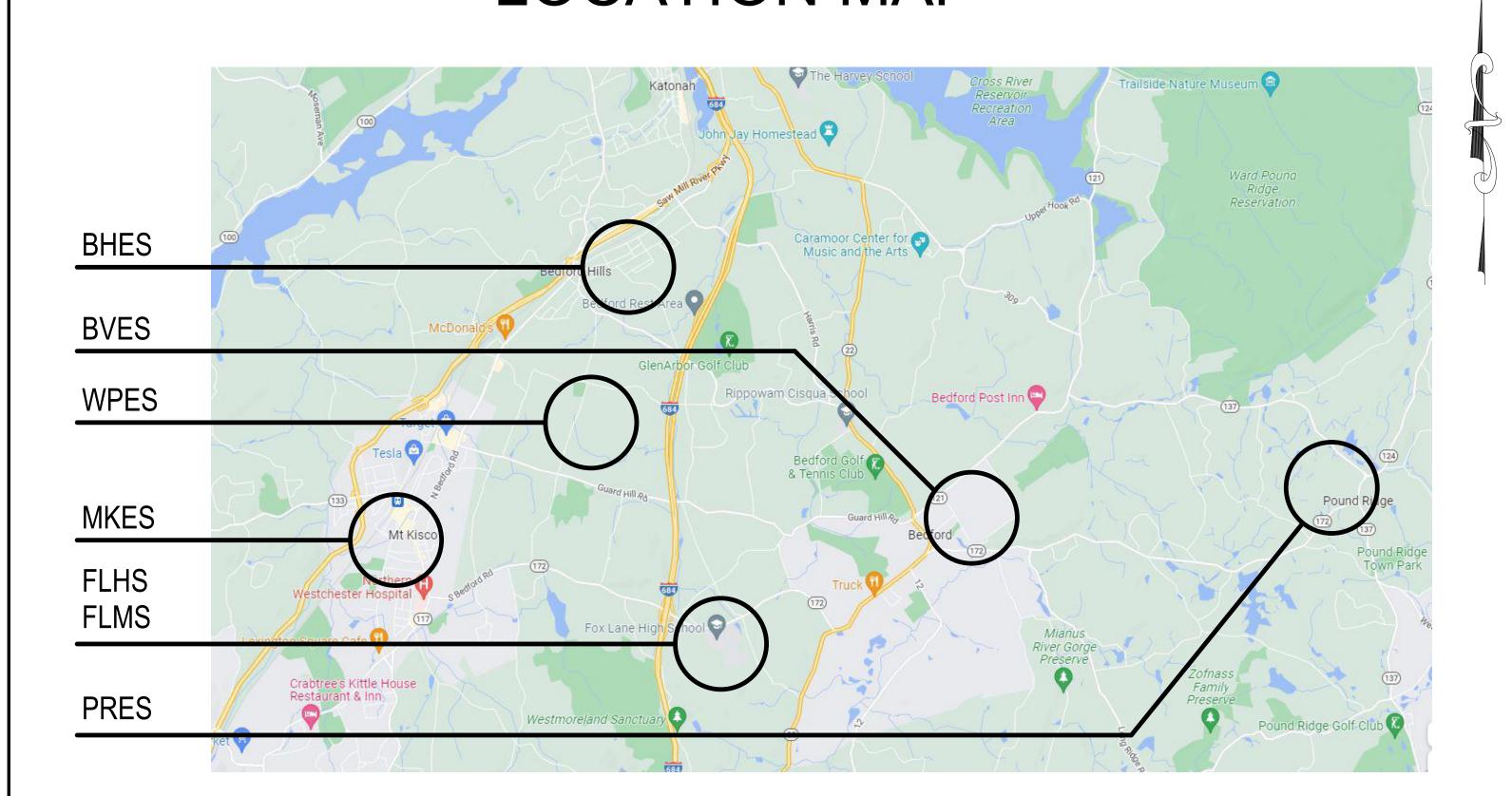
ELECTRICAL E0.01 GENERAL NOTES, SYMBOLS, ABBREVIATIONS AND SECURITY VESTIBULE PLAN

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A0.01 GROUND FLOOR AND LOWER FLOOR KEY PLANS
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ELECTRICAL E0.01 GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

E2.01 PROPOSED FIRST FL PLAN E6.01 TECHNOLOGY DETAILS LOCATION MAP





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T0.01 22-225B FLHS

THE UNDERSIGNED CERTIFIES THAT TO THE BEST OF HIS KNOWLEDGE, INFORMATION, AND BELIEF, THE PLANS AND SPECIFICATIONS ARE IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION

CONSTRUCTION CODE, AND THE CONSTRUCTION STANDARDS OF THE EDUCATION DEPARTMENT.

22-225D BVES 22-225E BHES

22-225B FLMS

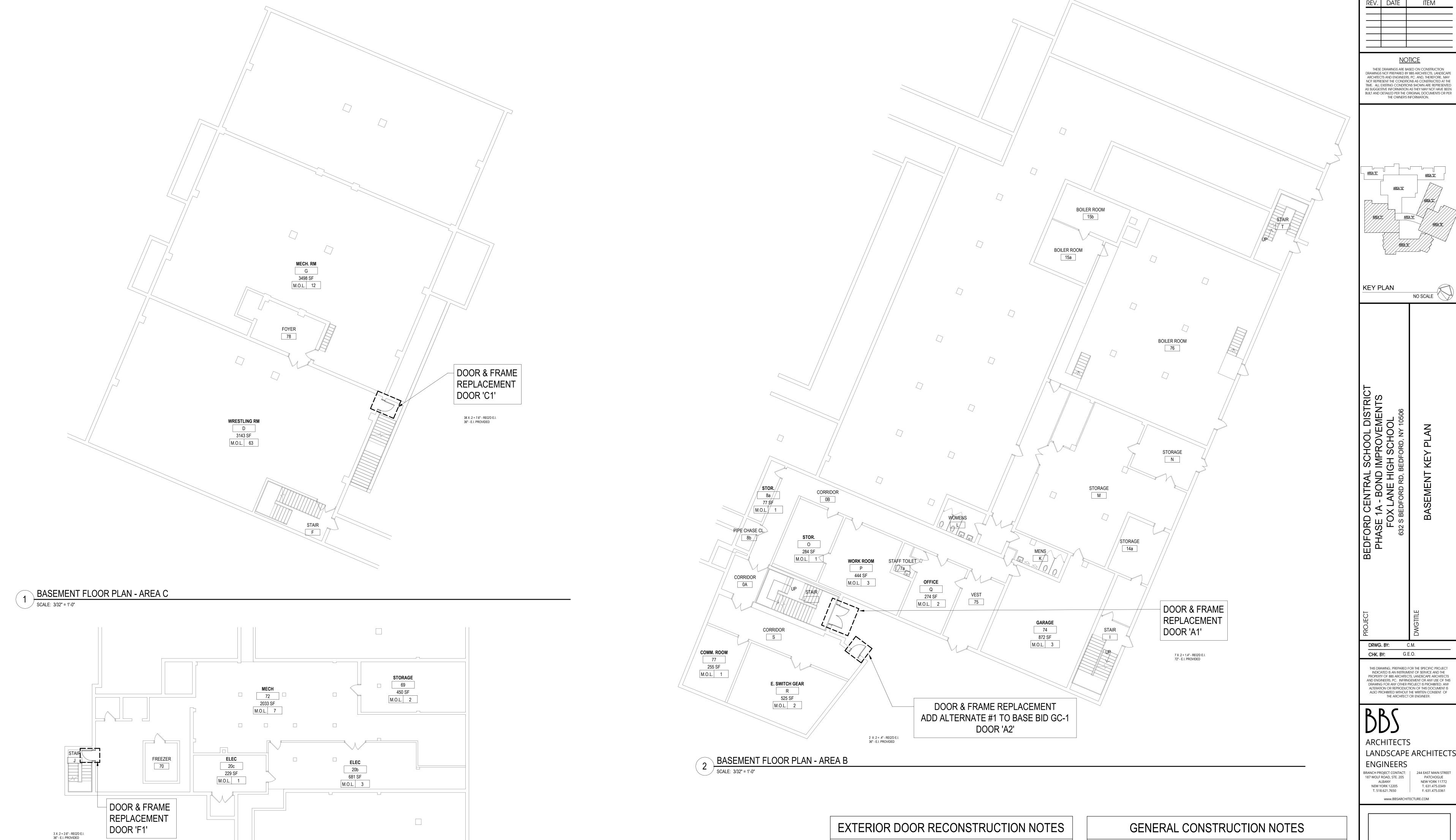
22-225C MKES

22-225F WPES BBS FILE No. 22-225G PRES

ISSUED FOR BID: FEBRUARY 2, 2022

LAWRENCE SALVESEN, A.I.A.

LIC. No. 020623



BASEMENT FLOOR PLAN - AREA F

SCALE: 3/32" = 1'-0"

- . AT ALL AREAS NOTED FOR REPLACEMENT, G.C. SHALL REMOVE AND DISPOSE OF EXISTING DOORS, FRAMES, AND GLAZING. G.C. SHALL TURN OVER EXISTING DOOR HARDWARE AND SIGNAGE TO OWNER.
- 2. G.C. SHALL PATCH/ REPAIR EXISTING INTERIOR/ EXTERIOR FINISHES CAUSED BY FRAME DEMOLITION.
- 3. G.C. SHALL PROVIDE KILN DRIED BLOCKING & SHIMS AS REQ'D FOR NEW FRAME INSTALLATION.
- 4. G.C. SHALL COORD. W/ E.C. FOR REMOVAL AND REINSTALLATION OF EXISTING DOOR CONTACT & ACCESS CONTROL DEVICES AND/OR MOTION DEVICES AS REQ'D FOR DEMOLITION & PROPOSED FRAME. COORDINATE W/ E.C. FOR REINSTALLATION INTEGRAL WITH FRAME & DOOR. G.C. SHALL PAINT EXPOSED CONDUIT TO MATCH DOOR, FRAME, & EXISTING FINISHES.
- 5. G.C. SHALL PROVIDE BACKER RODS AND SEALANT FULL PERIMETER, EACH SIDE OF NEW FRAME. SUBMIT COLOR SAMPLES FOR REVIEW, (TYP).
- 6. G.C. SHALL SCRAPE AND PAINT EXISTING EXPOSED DOOR LINTELS AFTER NEW FRAME INSTALLATION, (TYP).
- 1. GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO BIDDING & PROCEEDING WITH WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN WRITING PRIOR TO START OF WORK.
- 2. IN ACCORDANCE WITH STATE AND LOCAL CODES, THE REQUIRED EXITS IN THE EXISTING BUILDING MUST BE KEPT CLEAR, MAINTAINED AND PROTECTED DURING THE CONSTRUCTION PERIOD.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS REQUIRED FOR ESTIMATING. 4. ALL WORK AND MATERIAL OF THIS PROJECT AND ADJACENT SURFACES SHALL BE PROTECTED FROM DAMAGE. IN THE
- EVENT OF DAMAGE, THE CONTRACTOR SHALL IMMEDIATELY MAKE ALL REPAIRS AND REPLACEMENT NECESSARY TO THE APPROVAL OF THE ARCHITECT AND OWNER AND AT NO ADDITIONAL COST TO OWNER.
- 5. CONTRACTOR SHALL PROTECT ALL AREAS OF WORK FROM INCLEMENT WEATHER DURING AND AT THE END OF DAILY WORK OPERATIONS.
- 6. ALL PROJECT WASTE MATERIAL AND RUBBISH SHALL BE DISPOSED IN CONTAINERS PROVIDED BY THE CONTRACTOR FOR SUBSEQUENT LEGAL OFF-SITE DISPOSAL. CONTAINER LOCATION TO BE COORDINATED WITH THE OWNER & CONSTRUCTION MANAGER. OFF-SITE DISPOSAL TO BE ON A REGULAR BASIS.
- 7. ALL INTERIOR SURFACES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED AND/OR REPLACED TO MATCH EXISTING CONDITIONS TO THE APPROVAL OF THE ARCHITECT AND OWNER. 8. ALL DEBRIS, DUST AND DIRT CAUSED BY WORK OF THIS CONTRACT SHALL BE REMOVED FROM SITE BY APPROPRIATE
- 9. ALL DEMOLITION AND CONSTRUCTION WORK TO BE PERFORMED WITHOUT INTERRUPTION OF OWNER OPERATIONS. IF INTERRUPTION IS NECESSARY, WORK MUST NOT PROCEED UNTIL WRITTEN APPROVAL HAS BEEN OBTAINED FROM

MEANS. RESTORE ALL CONDITIONS TO THE STATE OF CLEANLINESS THAT EXISTED PRIOR TO COMMENCEMENT OF

10. ALL CONTRACTORS ARE TO COORDINATE INSTALLATION OF THEIR WORK WITH EACH OTHER AND WITH THE WORK BEING PERFORMED UNDER SEPARATE CONTRACTS BY OTHERS.

C.M.

244 EAST MAIN STREET PATCHOGUE NEW YORK 11772

T. 631.475.0349

NO SCALE

<u>SED No.</u> 66-01-02-06-0-003-021 **DISTRICT** BEDFORD CENTRAL SCHOOL

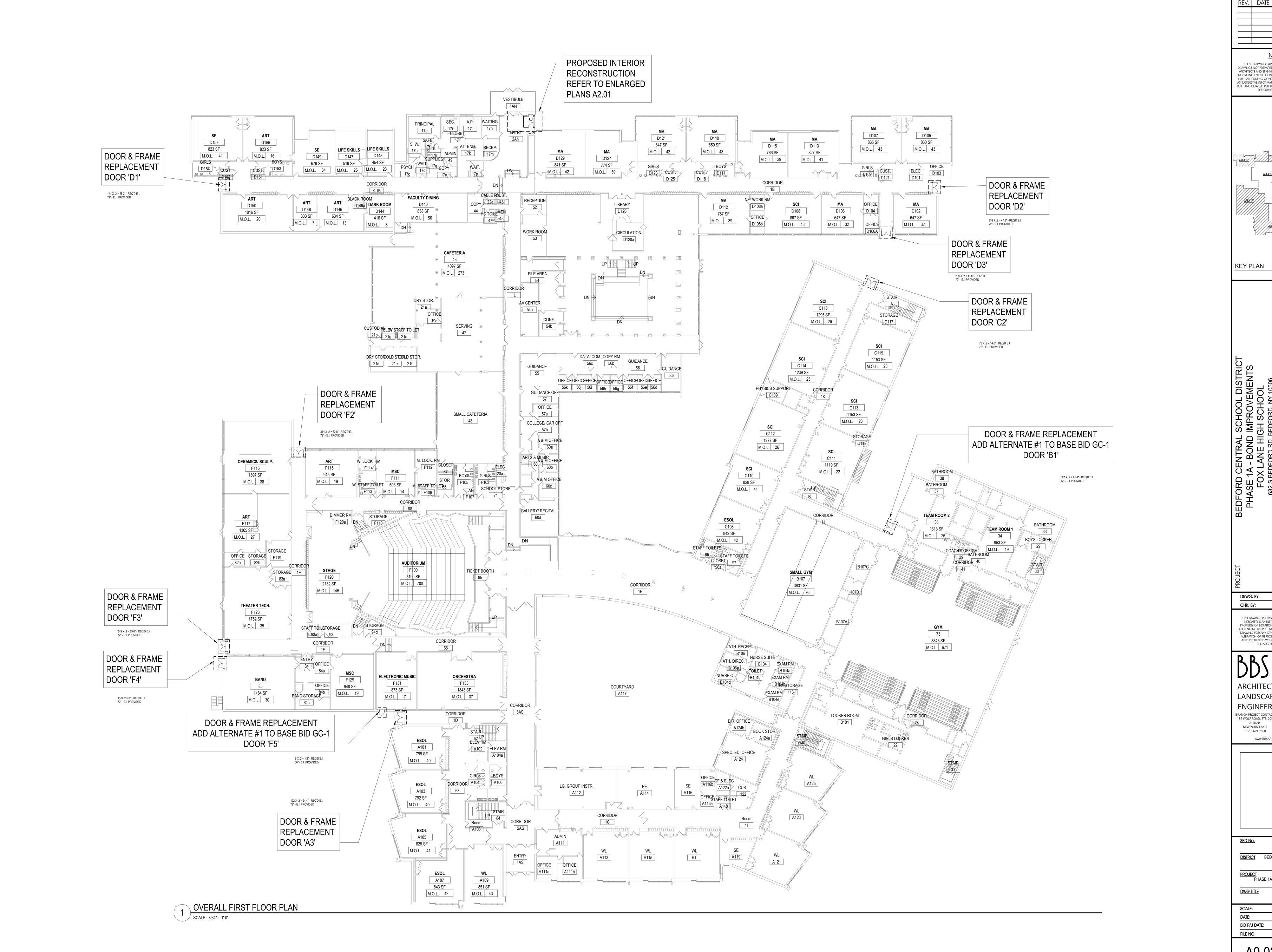
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2/2/2023 9:45:06 AM

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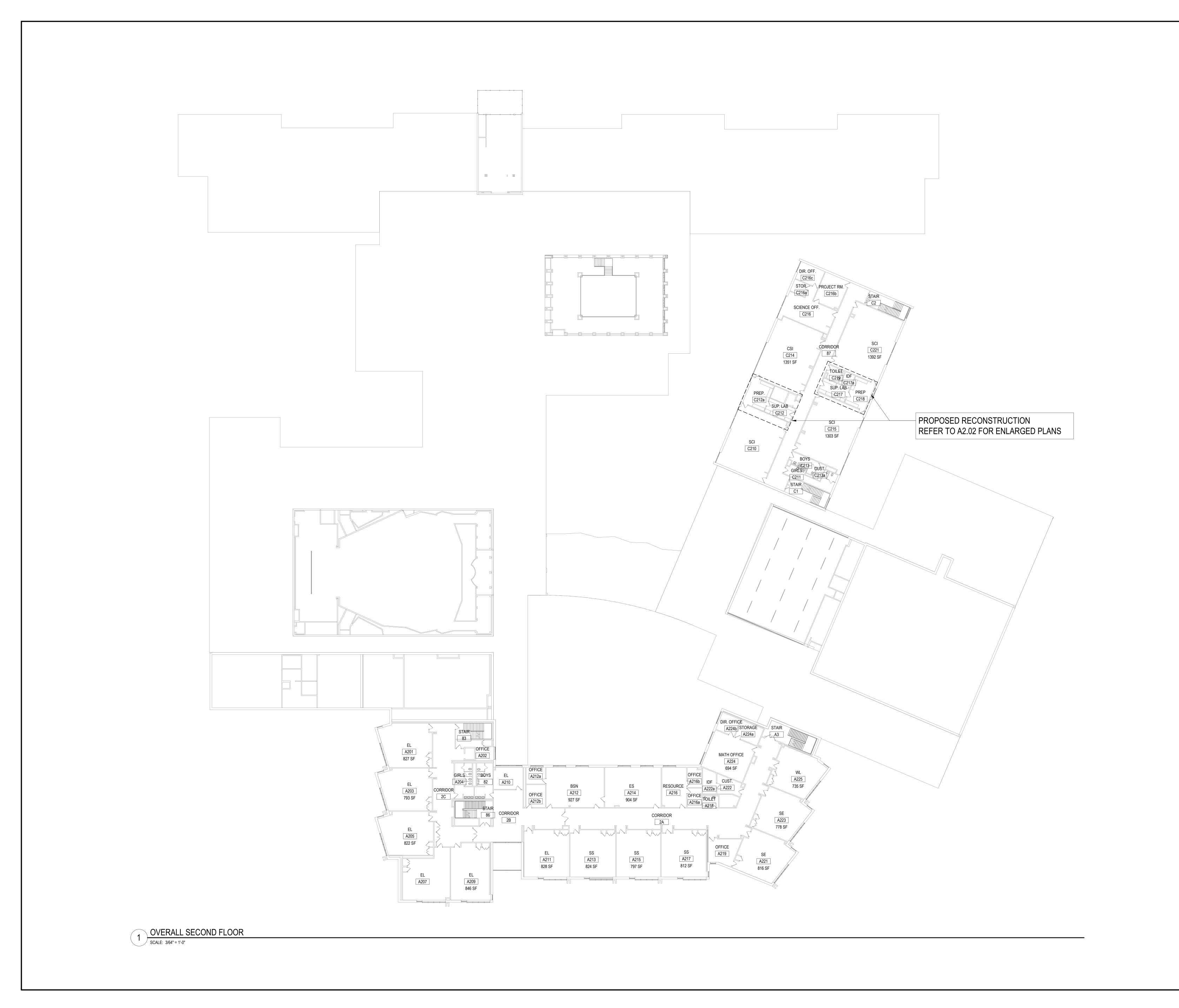
FIRST FLOOR KEY PLAN

SCALE: AS NOTED

DATE:

BID P/U DATE: 2/2/2023 9:45:12 AM

A0.02 FLHS



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CHK. BY: G.E.O.

CHK. BY: G.E.O.

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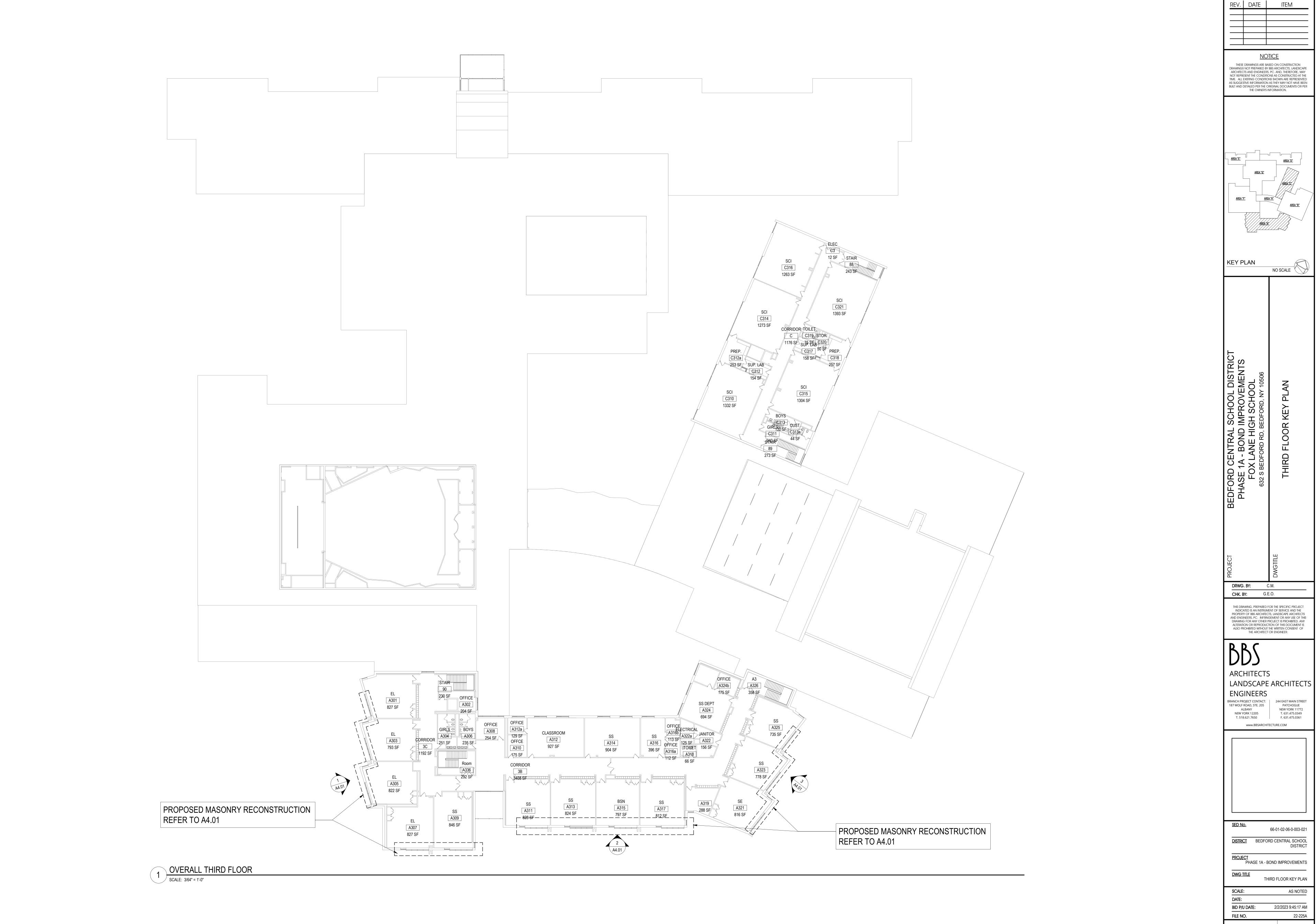
DWG TITLE
SECOND FLOOR KEY PLAN

 SCALE:
 AS NOTED

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 22-225A

A0.03 FLHS



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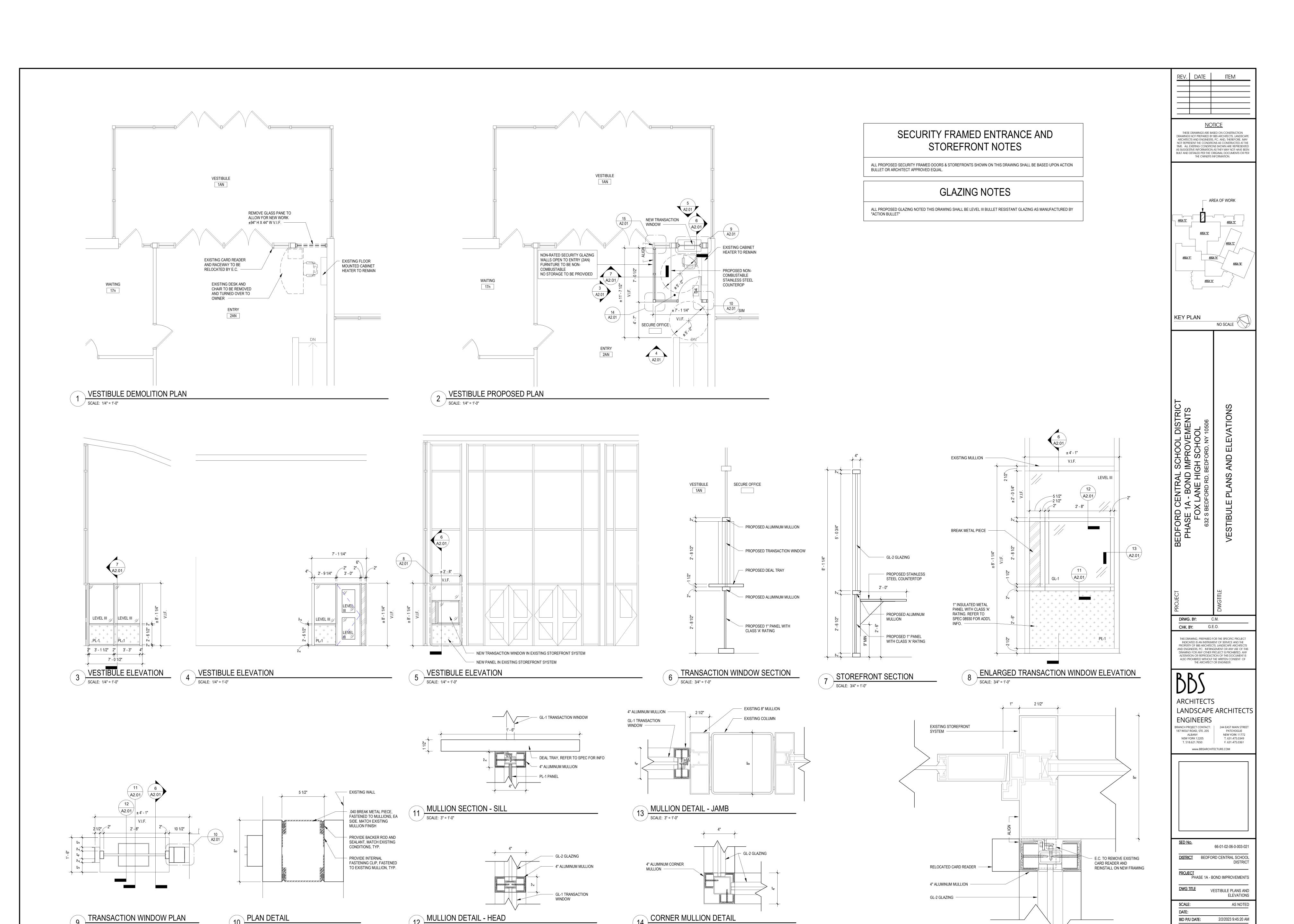
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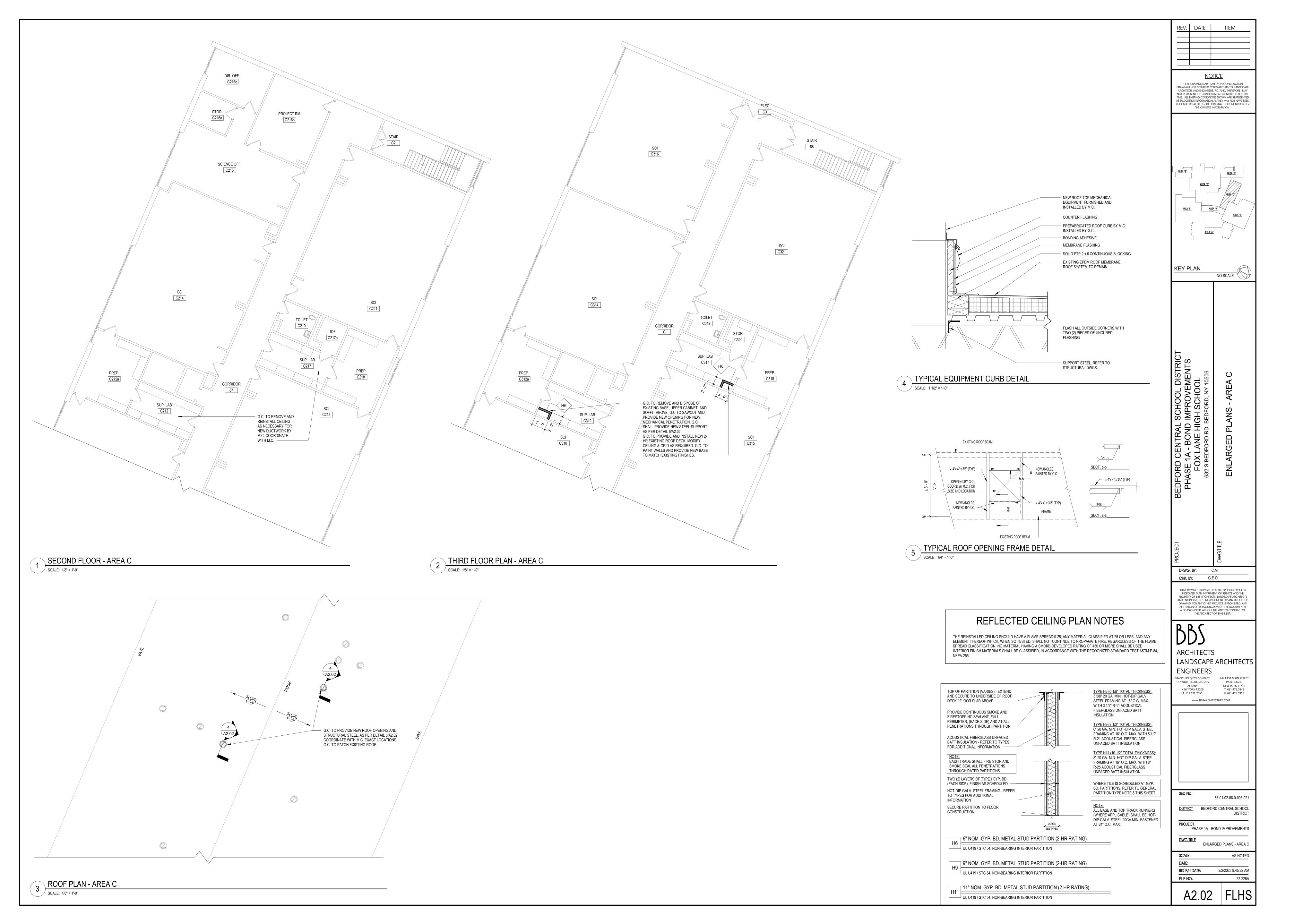
66-01-02-06-0-003-021 DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

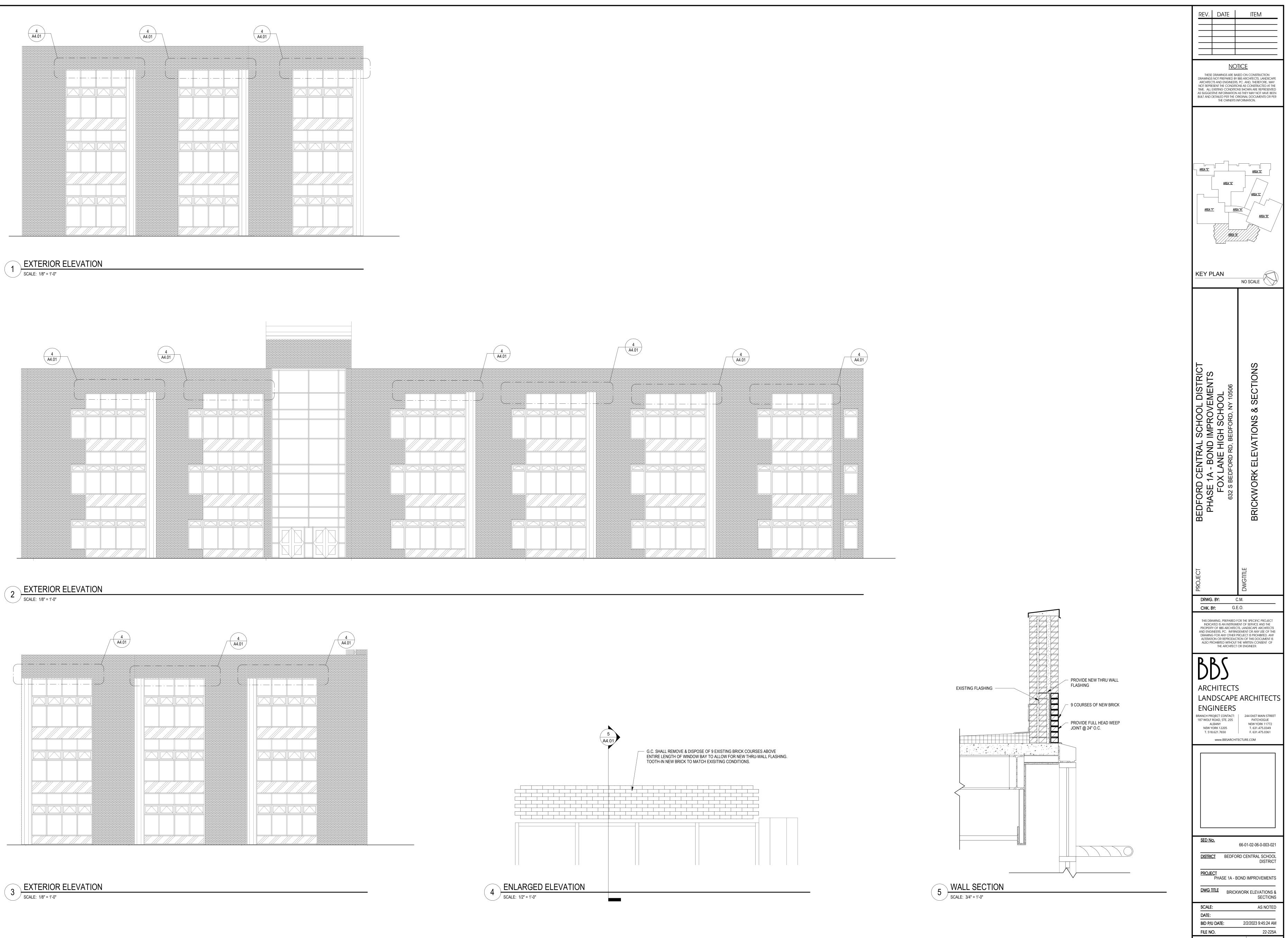
THIRD FLOOR KEY PLAN AS NOTED

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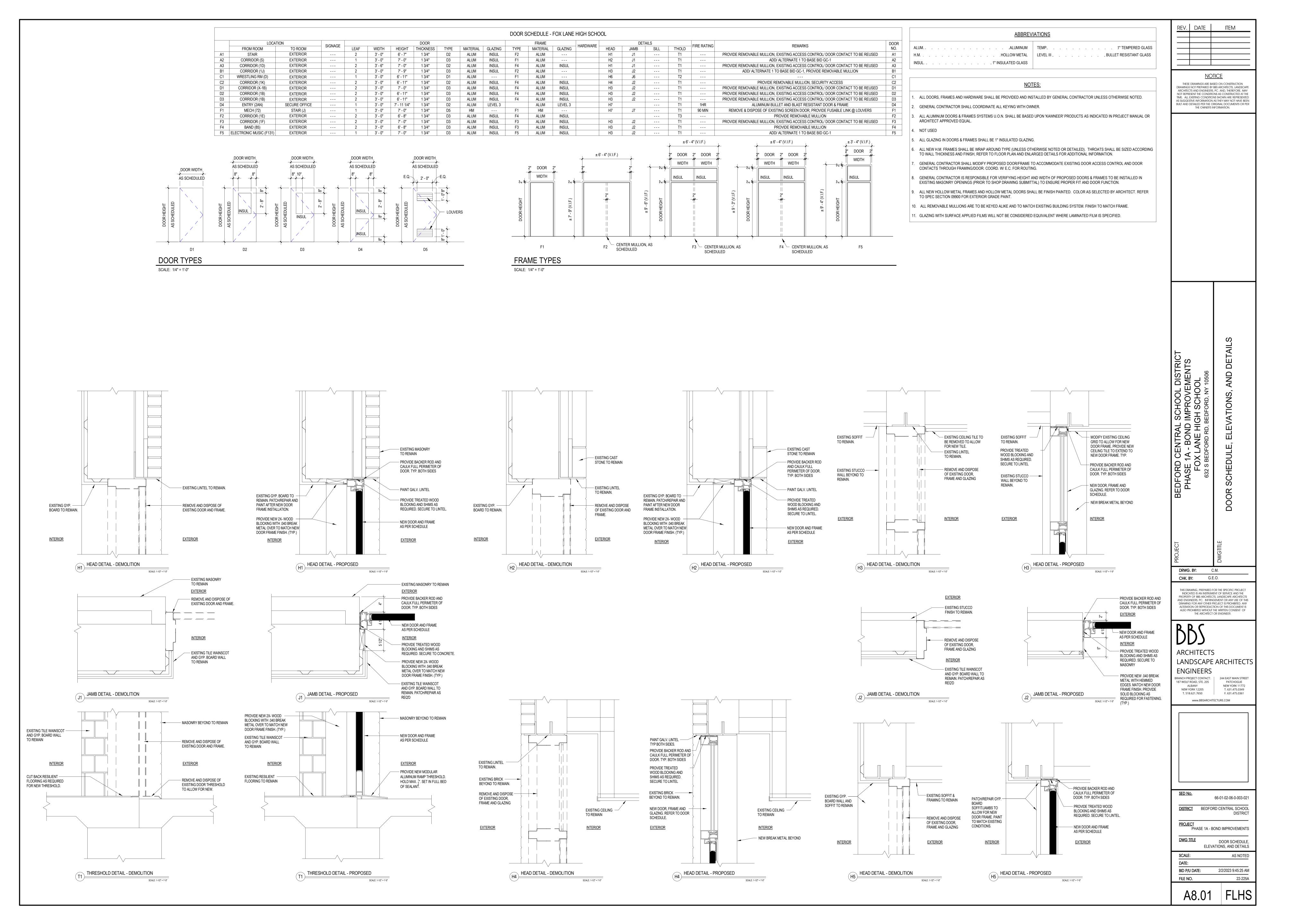


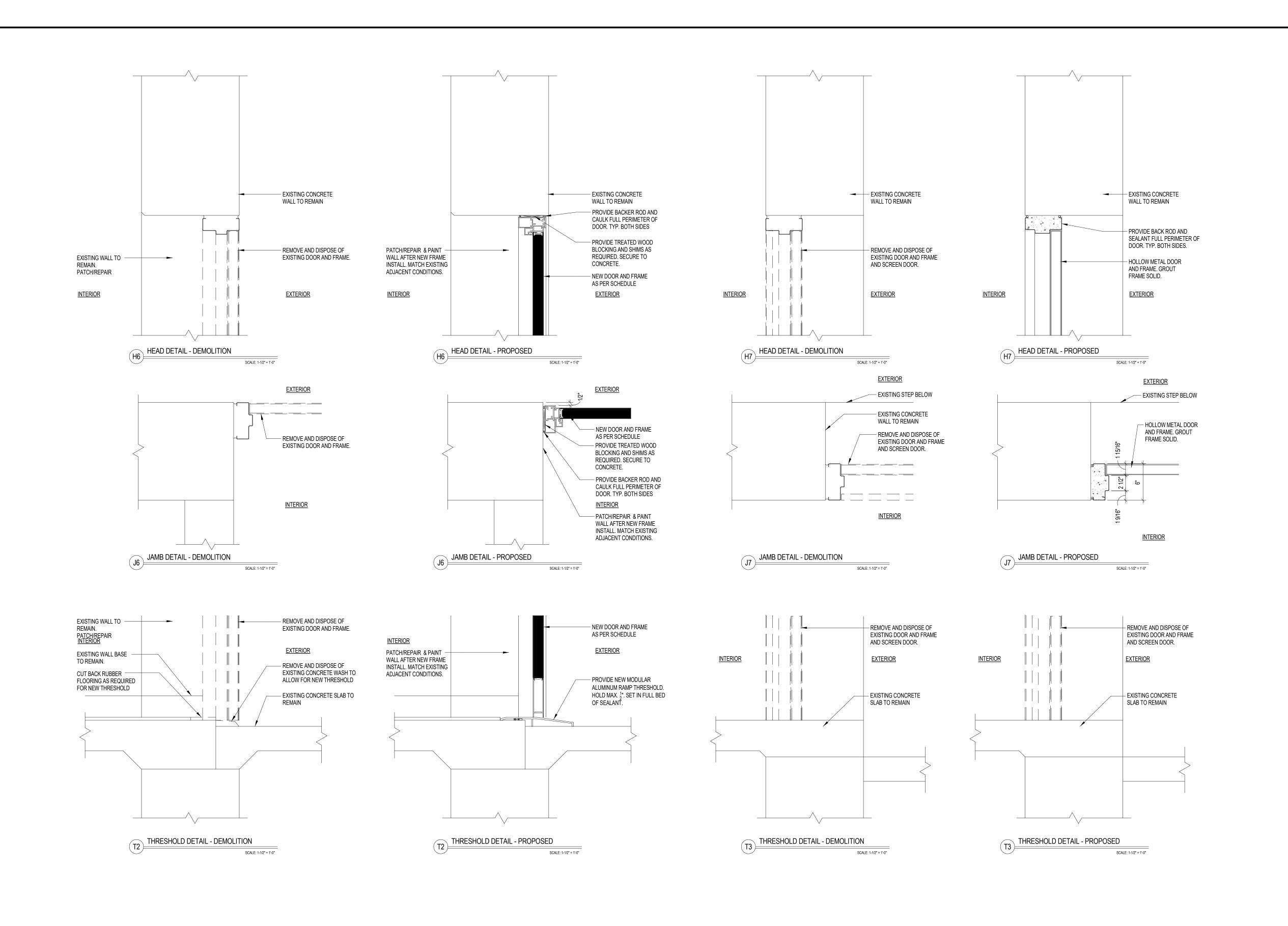




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BEDFORD CENTRAL SCHOOL DISTRICT PHASE 1A - BOND IMPROVEMENTS	FOX LANE HIGH SCHOOL 632 S BEDFORD RD, BEDFORD, NY 10506	DOOR DETAILS
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DWG TITLE
DOOR DETAILS

 SCALE:
 AS NOTED

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 22-225A

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GENERAL NOTES

- REMOVAL & RELOCATION OF CERTAIN EXISTING WORK SHALL BE NECESSARY FOR THE PERFORMANCE OF THE NEW WORK SHOWN HEREIN. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THI DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE & MAKE ALL NECESSARY CHANGES BASED ON EXISTING CONDITIONS AS REQUIRED FOR PROPER DEMOLITION OF EXISTING WORK & SHALL INCLUDE ALL MATERIALS & LABOR FOR SAME IN HIS BID PRICE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO DO SO.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE PREMISES OF THE PROPOSED WORK & SHALL CAREFULLY EXAMINE THE ENGINEERING DRAWINGS, EXISTING CONDITIONS & LIMITATIONS THEREOF. VERIFY ACTUAL LOCATIONS WHERE THE NEW PIPING WILL BE ROUTED, COORDINATE WITH NEW & EXISTING WORK & PROVIDE CLEARANCE W/ BUILDING STRUCTURE, OTHER SERVICES, ETC., THE CONTRACTOR SHALL INCLUDE ALL COSTS WHATSOEVER WHICH ARE INCURRED AS A RESULT OF LIMITATIONS OF THE EXISTING & NEW CONDITIONS. LATER CLAIMS FOR EXTRA LABOR, EQUIPMENT MATERIALS, ETC. REQUIRED DUE TO DIFFICULTIES WHICH COULD HAVE BEEN FORESEEN WILL NOT BE CONSIDERED AS EXTRA WORK.
- INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATING, MAINTENANCE & REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF MAGNITUDE WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHEN NECESSARY EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN CRATED SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AREAS AVAILABLE. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH THE BUILDING.
- COORDINATE THE EXACT SIZE & LOCATION OF NEW OPENINGS WITH EXISTING STRUCTURE. PATCH / INSULATE AS REQUIRED. CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS FROM NEW PIPING, CONDUIT, DUCTWORK, ETC. THROUGH EXISTING OR NEW FIRE/ SMOKE BARRIERS. REFER TO SPECIFICATION SECTION 15511 FOR FURTHER DETAILS.
- IT IS THE INTENT OF THIS CONTRACT FOR REMAINING SYSTEMS TO BE LEFT IN GOOD WORKING ORDER, READY FOR OPERATION. COORDINATE ANY REQUIRED SYSTEM SHUTDOWNS WITH OWNER 48 HOURS IN ADVANCE. EXISTING SYSTEM SHUTDOWNS WILL NOT BE PERMITTED IF THEY INTERFERE WITH THE DAILY OPERATIONS OF THE BUILDING. CONTRACTOR WILL BE REQUIRED TO TAKE PROPER PRECAUTIONS AGAINST DAMAGING OR DISRUPTING BUILDING SYSTEMS, WIRING, PIPING OR CONTROL TUBING. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED AT THE CONTRACTOR'S COST AS A PART OF THIS
- THE CONTRACTOR SHALL REPAIR / RESTORE TO ORIGINAL CONDITION ANY EXISTING EQUIPMENT OF MATERIALS DAMAGED IN THE PROCESS OF INSTALLATION, OR DEMOLITION TO THE SATISFACTION OF TH OWNER'S REPRESENTATIVE. CONTRACTOR SHALL MAKE REPAIRS USING THE SAME OR EQUIVALENT MATERIALS. WORK WILL BE PERFORMED AT THE CONTRACTOR'S COST.
- CONTRACTOR SHALL INCUR ANY COSTS OR BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT / MATERIALS.
- MATERIAL ACCUMULATED AS A RESULT OF HIS OPERATIONS ON A DAILY BASIS. ALL AREAS / EQUIPMENT AFFECTED UNDER THIS CONTRACT SHALL BE KEPT CLEAN OF DUST / DEBRIS. ALL AREAS SHALL RECEIVE A FINAL CLEANING PRIOR TO FINAL ACCEPTANCE BY THE OWNER.

DURING THE LIFE OF THE CONTRACT PERIOD, CONTRACTOR SHALL REMOVE ALL RUBBISH / EXCESS

- PROVIDE FOR LEGAL REMOVAL / DISPOSAL OF ALL RUBBISH / DEBRIS FROM THE BUILDING & SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO SCHEDULING THE WORK. WORK SHALL BE PERFORMED IN PROPER SEQUENCE, AS AGREED TO BY ALL TRADES. ANY COSTS INCURRED BY THE OWNER DUE TO IMPROPER SEQUENCING OF WORK WILL BE PAID FOR BY THIS
- CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC. ASSOCIATED WITH THE WORK UNDER THEIR CONTRACT.
- PAINT / TOUCH UP ALL SURFACES MARRED AS A RESULT OF THE PERFORMANCE OF THE CONTRACT
- . THE MECHANICAL CONTRACTOR SHALL REFER TO / REVIEW ALL OTHER TRADE DRAWINGS IN THE BID PACKAGE & SHALL BE RESPONSIBLE FOR / PERFORM ALL WORK INDICATED AS (M.C.) MECHANICAL WORK AS A PART OF THE BASE BID UNLESS SPECIFICALLY NOTED OTHERWISE.
- SUBSTITUTED FOLIPMENT OF GREATER OR LARGER POWER DIMENSIONS, CAPACITIES & RATINGS MAY BE FURNISHED PROVIDED THAT SAID EQUIPMENT IS APPROVED IN WRITING PRIOR TO ORDER. ANY CONNECTING MECHANICAL SERVICES, ELECTRICAL SERVICES, BASES, STRUCTURAL APPURTENANCES, ETC. REQUIRED TO BE INCREASED DUE TO THE USE OF SAID EQUIPMENT WILL BE PAID FOR IN FULL BY THE MECHANICAL CONTRACTOR, INCLUDING ANY ADDITIONAL REQUIRED ENGINEERING FEES.
- . EACH PIECE OF EQUIPMENT SHALL BE PROVIDED WITH A PERMANENT TYPE LAMINATED, BLACK FINISH WHITE CORE, PHENOLIC NAMEPLATE. NAMEPLATES SHOULD INDICATE THE NAME & NUMBER OF THE UNIT UNIT VOLTAGE, & ANY INTERLOCK REFERENCE. STARTERS / DISCONNECT SWITCHES SHOULD ALSO BE EQUIPPED WITH AN IDENTICAL NAMEPLATE WITH THE SAME INFORMATION.
- "ATTIC STOCK" UPON COMPLETION OF THE PROJECT, MECHANICAL CONTRACTOR SHALL COMPLETELY REMOVE / DISPOSE OF FILTERS USED DURING CONSTRUCTION & START-UP PROCEDURES. INSTALL NEW FILTERS IN ALL EQUIPMENT, MERV-8 OR BETTER UPON TURN OVER OF THE PROJECT TO THE OWNER. IN ADDITION, PROVIDE (2) COMPLETE SETS OF FILTERS FOR EACH PEICE OF EQUIPMENT & TURN OVER TO
- . MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EACH SIZE MOTOR USED ON THE PROJECT. IN INSTANCES WHERE MORE THAN TEN OF THE SAME MOTOR ARE USED, MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EVERY TEN MOTORS OF A GIVEN SIZE USED ON THE
- MAINTENANCE MANUAL: UPON COMPLETION OF THE PROJECT, THE MECHANICAL CONTRACTOR SHALL PROVIDE A BINDER CONTAINING THE OPERATIONS & MAINTENANCE MANUALS FOR EACH NEW PEICE OF EQUIPMENT INSTALLED UNDER THIS PROJECT. THE FIRST SECTION OF THE MAINTENANCE MANUAL SHALL CONTAIN A LIST OF EACH PEICE OF EQUIPMENT, COMPLETE WITH INFORMATION SHOWING APPROPRIATI REPLACEMENT FILTER SIZES / TYPES, APPROPRIATE REPLACEMENT BELT SPECIFICATIONS, REPLACEMENT MOTOR SPECIFICATIONS, REPLACEMENT BEARING SPECIFICATIONS, VOLTAGES OF UNIT, ETC. THIS SHAL SERVE AS A WRITTEN DATABASE DESCRIBING ALL MAINTENANCE INFORMATION FOR EACH NEW PEICE OF

BOILER ROOM and PIPING NOTES

- THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING & EQUIPMENT, & INDICATE THI REQUIRED SIZE / POINTS OF TERMINATION OF THE PIPING & SUGGEST PROPER ROUTING OF SAME. IT IS NOT THE INTENTION OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, RISES, DROPS OBSTRUCTIONS OR STRUCTURAL CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER THAT IT WILL CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM & KEEP OPENINGS / PASSAGEWAYS CLEAR WITHOUT FURTHER CONSTRUCTION OR COST.
- ALL FLOOR MOUNTED BOILER ROOM EQUIPMENT SHALL BE INSTALLED ON A LEVEL, REINFORCED CONCRETE HOUSEKEEPING PAD, 4" THICK MIN. UNLESS OTHERWISE NOTED. ALL HOUSEKEEPING PADS SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. PADS SHALL BE REINFORCED W/ WELDED WIRE MESH & SHALL BE POURED USING 3,000 PSI CONCRETE.
- MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL ALL REQUIRED STRUCTURAL SUPPORTS FOR ALL PIPING SYSTEMS & EQUIPMENT AS REQUIRED. PIPING SYSTEMS SHALL BE EQUIPPED WITH EXPANSION COMPENSATORS AT THE INTERVALS REQUIRED. PROVIDE PIPING GUIDES / ANCHORS AS REQUIRED.
- MECHANICAL CONTRACTOR SHALL PROPERLY INSULATE ALL NEW PIPING SYSTEMS & EQUIPMENT. REFER TO SPECIFICATION SECTION 15250 FOR FURTHER DETAILS REGARDING INSULATION REQUIREMENTS UPON COMPLETION OF INSULATION WORK, MECHANICAL CONTRACTOR SHALL PROPERLY LABEL EACH PIPING RUN SHOWING THE TYPE OF FLUID CARRIED & DIRECTION OF FLOW. PIPE IDENTIFICATION MARKERS SHALL BE INSTALLED EVERY 20 FEET IN THE PIPING RUNS.
- ALL VALVES WITHIN PIPING SYSTEMS SHALL BE TAGGED USING A 1-1/2" DIA. BRASS TAG. PROVIDE A LEGEND LISTING VALVE #, TYPE OF VALVE, SERVICE TYPE, & LOCATION OF VALVE. KEY VALVE #'S TO AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.
- MECHANICAL CONTRACTOR SHALL SUBMIT (3) SETS OF OPERATING MANUALS FOR EACH PIECE / TYPE OF MECHANICAL EQUIPMENT.
- MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL ALL WIRING & DEVICES AS REQUIRED TO CONTROL THE BOILER ROOM EQUIPMENT AS DESCRIBED IN THE SEQUENCE OF OPERATIONS LISTED IN THE PROJECT MANUAL. REFER TO SPECIFICATION SECTION 15903 FOR FURTHER DETAILS.

FIRESTOPPING NOTES

- ALL PENETRATIONS RELATED TO MECHANICAL WORK THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED AS REQUIRED TO MAINTAIN THE RATING OF THE WALL BY MECHANICAL CONTRACTOR. IT IS ASSUMED THAT ALL WALLS IN THE CONSTRUCTION CARRY A MINIMUM FIRE RATING OF 1 HR. IT SHOULD BE ASSUMED THAT ALL MACHINE ROOM WALLS / BOILER ROOM WALLS / ELECTRIC ROOM WALLS CARRY A RATING OF 2 HR. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE REVIEW OF THE ARCHITECTURAL DRAWINGS IN ORDER TO DETERMINE FIRE RATINGS OF ALL WALLS / PARTITIONS RELATED TO WORK UNDER THIS CONTRACT.
- MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS. DUCTS PENETRATING SAID RATED BARRIERS SHALL BE EQUIPPED WITH A UL LISTED FUSIBLE LINK TYPE FIRE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR, COMPLETE W/ DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER, POSITIONED FOR EASY REPLACEMENT OF THE LINK.
- MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS OCCUR BETWEEN SEPARATE SMOKE ZONES. DUCTS PENETRATING SAID FIRE / SMOKE BARRIERS SHALL BE EQUIPPED WITH A UL LISTED COMBINATION FIRE / SMOKE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE / SMOKE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR, COMPLETE WA DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER. DAMPER ACTUATOR & RELATED WIRING SHALL BE PROVIDED & INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE DAMPER INSTALLATIONS W/ E.C. TO VERIFY PROPER CLEARANCES TO ASSURE PROPER DAMPER OPERATION.
- MECHANICAL CONTRACTOR SHALL PROVIDE A FULL SET OF AS-BUILT DRAWINGS, SHOWING EACH DAMPER LOCATION, TYPE OF DAMPER, ACCESS DOOR LOCATIONS, ETC. CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 15511 FOR FURTHER DETAILS REGARDING FIRESTOPPING MATERIALS & METHODS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS TO BE USED. FIRESTOP MATERIALS OTHER THAN THE PRODUCTS SPECIFIED SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRESTOPPING MATERIALS.

GENERAL INSTRUMENTATION NOTES

- AT A MINIMUM, PROVIDE THERMOMETERS / WELLS AT THE FOLLOWING LOCATIONS:
- AT INLETS & OUTLET OF EACH THREE WAY VALVE (UNIT VENTILATORS / CABINET UNIT HEATER INSTALLATIONS EXCEPTED).
- AT INLET & OUTLET OF EACH HYDRONIC BOILER, CHILLER OR COOLING TOWER. AT INLET & OUTLET OF EACH HYDRONIC COIL IN AIR HANDLING UNITS & BUILT-UP CENTRAL SYSTEMS.
- AT A MINIMUM, PROVIDE LIQUID FILLED PRESSURE GAUGES / WELLS AT THE FOLLOWING LOCATIONS:
- AT SUCTION & DISCHARGE OF EACH PUMP. FOR EACH MAKEUP WATER LINE.
- BEFORE & AFTER ALL PRESSURE REDUCING VALVES.
- AT ACCESSIBLE HIGH POINT OF ALL HYDRONIC PIPING SYSTEMS. AT ALL EXPANSION / COMPRESSION TANKS.

EQUIPMENT VENTING NOTES

- MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER VENTING OF ALL NEWLY INSTALLED HYDRONIC PIPING SYSTEMS. AUTOMATIC AIR VENTS SHALL BE INSTALLED AT EVERY HIGH POINT IN THE PIPING SYSTEM WHERE AIR CAN COLLECT. PROVIDE COCK IN RISER PRIOR TO AUTOMATIC AIR VENT. NEW AIR VENTS SHALL BE "TACO" #HY-VENT OR EQUIVALENT.
- 2. MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL NEW AUTOMATIC AIR VENT FOR EACH AIR HANDLING UNIT COIL OR DUCT MOUNTED COIL. INSTALL SHUT-OFF COCK PRIOR TO VENT TIE-IN.
- MECHANICAL CONTRACTOR SHALL PROVIDE NEW MANUAL AIR VENTS FOR ALL UNIT VENTILATOR COILS, CONVECTORS, FAN COIL UNITS, FIN TUBE RADIATORS, ETC. MANUAL VENTS SHALL BE "TACO" #417 COIN VENT OR EQUIVALENT. PROVIDE SHUT-OFF COCK PRIOR TO VENT. AIM COIN VENT DISCHARGE IN AN APPROPRIATE MANNER AS TO FACILITATE THE CAPTURE OF BLEED WATER WHILE PERFORMING SYSTEM BLEEDING OPERATIONS.

ELECTRICAL WORK UNDER MECHANICAL CONTRACT

- MECHANICAL CONTRACTOR SHALL PROVIDE ALL STARTERS & DISCONNECT SWITCHES REQUIRED FOR ALL NEW MECHANICAL EQUIPMENT. STARTER / DISCONNECT SWITCH INSTALLATION TO BE PERFORMED UNDER THE ELECTRICAL CONTRACT. COORDINATE WORK W/ ELECTRICAL CONTRACTOR PRIOR TO START
- POWER WIRING REQUIRED FOR CONTROLS SHALL BE PERFORMED UNDER THE MECHANICAL CONTRACT UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL OBTAIN THE SERVICES OF A LICENSED ELECTRICIAN (PER NEC REQUIREMENTS) TO PERFORM ALL ELECTRICAL WORK.

DUCTWORK NOTES

- PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 015891, AND IN CONFORMANCE WITH 'SMACNA' SPECIFICATIONS.
- IF A DUCT ELBOW IS SHOWN TO BE RADIUSED, THEN RADIUSED ELBOWS SHALL BE INSTALLED. SQUARE ELBOWS MAY NOT BE SUBSTITUTED WHERE RADIUSED ELBOWS ARE SHOWN. WHERE SQUARE ELBOWS ARE SHOWN, TURNING VANES SHALL BE INSTALLED UPON APPROVAL BY THE ENGINEER.
- PROVIDE DUCT LINING IN ALL DUCTWORK THAT IS CONVEYING BELOW AMBIENT TEMPERATURE AIR & IS NOT INSULATED. PROVIDE LINING IN SUPPLY & RETURN AIR DUCTWORK FROM AIR HANDLING EQUIPMENT TO 20 FEET AWAY FROM THE UNIT(S). IN ADDITION, INCLUDE LINING IN ANY OTHER DUCT SPECIFICALLY SHOWN OR SPECIFIED TO BE EQUIPPED WITH LINING. REFER TO SPECIFICATION SECTION 15891 & 15290 FOR FURTHER INFORMATION.
- WHERE FLEXIBLE DUCTWORK IS USED, LENGTHS MAY NOT EXCEED 4 FEET TOTAL IN ANY ONE RUN OF FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE RATED IN ACCORDANCE WITH UL 181, CLASS 1. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.
- MECHANICAL CONTRACTOR SHALL PROVIDE A BUTTERFLY TYPE VOLUME DAMPER WITH LOCKING QUADRANT HANDLE PRIOR TO EACH AIR OUTLET SHOWN. INSTALL DAMPER AT LEAST 5 FEET AWAY FROM AIR OUTLET WHEREVER POSSIBLE.
- MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCT SYSTEMS CONNECT TO EQUIPMENT. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.

TESTING and BALANCING NOTES

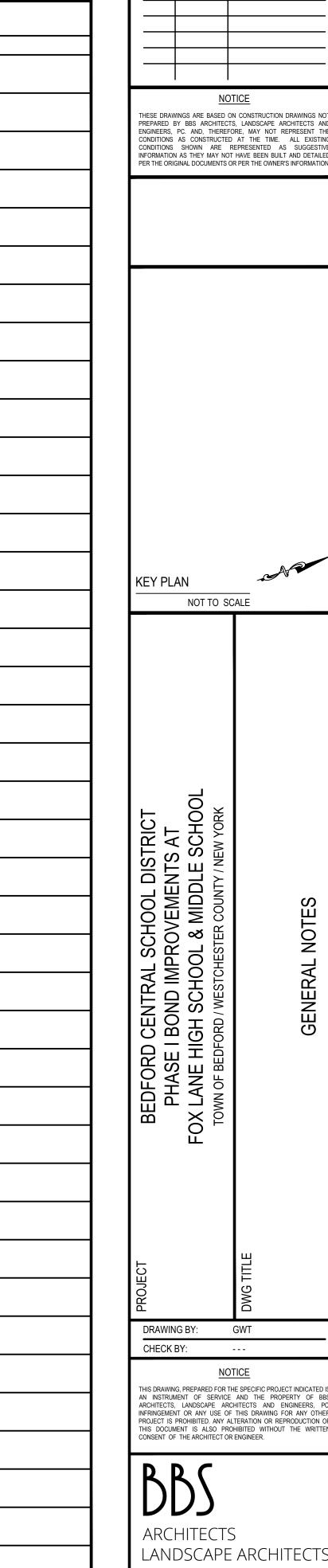
- MECHANICAL CONTRACTOR WILL BE REQUIRED TO PERFORM ALL EQUIPMENT & SYSTEM TESTING / BALANCING REQUIRED UNDER THIS CONTRACT. PROVIDE A FULL REPORT DETAILING ALL DESIGN & ACTUAL CONDITIONS FOR ALL AIR & HYDRONIC SYSTEMS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 15990 & 15997 FOR FURTHER DETAILS.
- UPON NOTICE OF COMPLETION OF WORK BY THE CONTRACTOR, OWNER WILL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING & BALANCING CONTRACTOR TO VERIFY THE RESULTS OF THE TESTING & BALANCING REPORT SUBMISSION. INDEPENDENT TESTING AGENCY SHALL SELECT A RANDOM NUMBER OF MEASUREMENTS TO BE CHECKED. MEASUREMENTS WILL BE CHECKED IN THE SAME MANNER AS ORIGINALLY MEASURED. NUMBER OF VERIFICATION MEASUREMENTS SHALL BE APPROXIMATELY 25% OF THE TOTAL MEASUREMENTS FOR THE PROJECT.
- IF MORE THAN 10% OF THE VERIFICATION TESTING SHOWS DEVIATIONS OF 10% OR MORE / SOUND LEVEL OF 2dB DIFFERENT THAN THAT ORIGINALLY MEASURED, THE ORIGINAL REPORT WILL BE REJECTED. AL SYSTEMS WILL THEN BE REQUIRED TO BE COMPLETELY RE-TESTED, WITH A SECOND REPORT SUBMITTED IN THE EVENT THAT THE ORIGINAL REPORT IS REJECTED, ALL SYSTEMS SHALL BE READJUSTED & TESTED NEW CERTIFIED REPORTS SUBMITTED, AND NEW VERIFICATION TESTS MADE, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INVOLVED WITH THE VERIFICATION TESTS.

ABBREVIATIONS	
A.F.F	₹
B.D	₹
CWS	ſ.
CFM	Ξ
D	ł
DIA./~	₹
F&TFLOAT & THERMOSTATIO).
FPM	Ξ
FSD).
FLEX	Ξ
FO	(
GAL	3.
GPH	₹
GPM	Ξ
H	1
H.C	
HWS	<i>1</i> .
HWR	
HP	
J.D	
KW	
L	
LAT	
LWT LEAVING WATER TEMPERATURE	
MAX	
MIN	
MBH	
MFR	
M.H	
MISC	
MTD	
G	
N.I.C	
No./#	
NOM	
N.T.S	
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0.C	
O.D	
O.S. &.Y	
O.C	
PE	
PREFAB	
PRV	
R.A	
REQ'D	
RPM	
S.A	
SCH	
S.P	
STD	
T	
.TXV	
TYP	
.VOL	
V.D VOLUME,DAMPER	
VOL	
VFD	
.W	
WB	Ξ
WTD	<u>.</u>
WTR	Ξ
WPD	<u>.</u>
	_

SYMBOL	DESCRIPTION
24x12 / 20"~	RECTANGULAR GALVANIZED DUCTWORK - DIMENSIONS 'W' x 'H'
	NEW SUPPLY DUCTWORK TO RISE UP
	NEW SUPPLY DUCTWORK TO DROP DOWN
	NEW RETURN DUCTWORK TO RISE UP
	NEW RETURN DUCTWORK TO DROP DOWN
£ 3	TRANSITION IN DUCTWORK
£ .	FIRE DAMPER INSTALLED IN DUCTWORK
	VOLUME DAMPER IN DUCT (w/ LOCKING QUADRANT HANDLE)
5 0	ROUND DUCTWORK TO RISE UP
54 ()	ROUND DUCTWORK TO DROP DOWN
42x18 FO \$	FLAT OVAL DUCT WORK
	RECTANGULAR TO ROUND DUCT TRANSITION
Z4 1999	ELBOW IN DUCTWORK w/ TURNING VANES
	ELBOW IN DUCTWORK (RADIUS + 1.5 x D)
	45 DEG. TAKEOFF FITTING
	90 DEG. TAKEOFF w/ BELLMOUTH FITTING
	FLEXIBLE DUCTWORK TO DIFFUSER (4 FT. MAX. RUN)
	4-WAY PATTERN CEILING DIFFUSER
	3-WAY PATTERN CEILING DIFFUSER
	2-WAY PATTERN CEILING DIFFUSER (90 DEG. / OPPOSING PATTER
	CEILING RETURN AIR REGISTER
	LINEAR SLOT DIFFUSER
	ROOF MOUNTED EXHAUST FAN

PIPING SYMBOL I	EGEND
SYMBOL	DESCRIPTION
	PIPING TO RISE UP
 •	PIPING TO DROP DOWN
P.A.	PIPING ANCHOR
	PIPING GUIDE
·	COLD WATER SUPPLY PIPING
	HEATING SYSTEM SUPPLY PIPING
— — HWR — —	HEATING SYSTEM RETURN PIPING
	CHILLED WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING
	CONDENSER WATER SUPPLY PIPING
	CONDENSER WATER RETURN PIPING
CD	CONDENSATE DRAINAGE PIPING
F.O.S	FUEL OIL SUPPLY PIPING
F.O.R	FUEL OIL RETURN PIPING
G	LOW PRESSURE NATURAL GAS PIPING
EG	ELEVATED PRESSURE NATURAL GAS PIPING
<u> </u>	GAS COCK
	DIRT LEG IN PIPING
LP	LIQUEFIED PETROLEUM GAS PIPING
	VENT PIPING
	LINEAR EXPANSION COMPENSATOR
	EXPANSION LOOP IN PIPING
——————————————————————————————————————	UNION IN PIPING
	PIPING STRAINER (w/ BLOWDOWN VALVE)
→	REDUCER / INCREASER FITTINGS IN PIPING
	ECCENTRIC REDUCER IN PIPING
<u></u>	THERMOMETER
	PRESSURE GAUGE
<u> </u>	FULL PORT BALL VALVE
	GATE VALVE
	SWING CHECK VALVE
_	BALANCING VALVE
	3-WAY VALVE (w/ OPERATOR)
	CIRCUIT CETTER
3	TRIPLE DUTY VALVE
	WAFER VALVE
	PLUG / CAP IN PIPING
\bigcap	PNEUMATIC CONTROL VALVE OPERATOR
	ELECTRIC CONTROL VALVE OPERATOR
· 	AUTOMATIC AIR VENT
	EXISTING PIPING
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DESCRIPTION SE UP		-
ROP DOWN		TH
IOR		PR EN CC CC INF
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CONTROL VALVE OPERATOR		
ONTROL VALVE OPERATOR		/ [
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REV. DATE

NOTICE NOTICE

DRAWING BY: GWT CHECK BY:

NOT TO SCALE

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66-01-02-06-0-003-021 DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT PROJECT BOND PHASE I INTERIOR & EXTERIOR RECONS

SCALE: AS NOTED NOVEMBER 4, 2022 DATE: BID PICK-UP: FILE No: 22-225A

DWG IIILE GEN NOTES

M0.01

VENTILATION AND EXHAUST SCHEDULE

Room Numbe	er Occupancy Classification	Occupancy Density (People Per 1000SF)	Rate in Breathing Jone	Area Outdoor Airflow Rate in Breathing Zone, Ra (CFM/SF)		MYOD ISLI	Number of People (Pz)	Ventilation in Breathing Zone, Vbz (CFM)		Outdoor Airflow	Exchange Air
C212	Chemical Storage Room	0	0	0	1.5	138	0	0	1	0	
C217	Chemical Storage Room	0	0	0	1.5	142	0	0	1	0	

SYMBOL	'ANEMOSTAT' MODEL NO.	FACE SIZE	NECK SIZE	NC LEVEL	MAX. CFM RANGE	NOTES
E1)	AC30-45	10x10	10x10	25	UP TO 150	T-BAR LAY IN, 45 [^] DEFLECTION

SYMBOL	'ANEMOSTAT' MODEL NO.	FACE SIZE	NECK SIZE	NC LEVEL	MAX. CFM RANGE	NOTES
R1)	AC30-45	12x12	12x12	25	240	SURFACE MOUNTED, 45^ DEFLECTION

TYP. FOR NEW EXHAUST FAN(S) - EF-1	
14" HIGH 14 GA. GALVANIZED ROOF CURB (BY M.C.)	
EXISTING ROOF DECK - G.C. TO CUT OPENING FOR FAN AS REQ'D.	NEW ROOF FLASHING FOR CURB (BY G.C.)
WELDED SUPPORT FRAMING AROUND ROOF OPENING (BY G.C.)	
	BUILDING ROOF SUPPORT STRUCTURE - G.C. TO MODIFY AS REQ'D. FOR FAN INSTALLATION
TVD FOR NEW RHOTHORY FROM FAN	ELECTRIC DAMPER MOTOR POWERED & WIRED BY M.C FIE INTO FAN OPERATION SUCH THAT DAMPER OPENS WHEN FAN STARTS

1	NEW ROOF MOUNTED EXHAUST FAN INSTALLATION	
		SCALE: N.T.S.

KEY PLAN NOT TO SO	CALE	A	
BEDFORD CENTRAL SCHOOL DISTRICT PHASE I BOND IMPROVEMENTS AT FOX LANE HIGH SCHOOL & MIDDLE SCHOOL TOWN OF BEDFORD / WESTCHESTER COUNTY / NEW YORK		NEW MECHANICAL WORK PLAN	CHEMICAL STORAGE EXHAUST PLAN
PROJECT	DWG TITLE		
DRAWING BY: CHECK BY:	GWT		
	TICE		
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SED No.	66-01-02-06-0-003-021
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	BOND PHASE I INTERIOR & EXTERIOR RECON

	DWG TITLE	NEW MECH CHEM STORAGE PLAN
Г	SCALE:	AS NOTED
1	DATE	NOVEMBER 4 0000

DATE: NOVEMBER 4, 2022
BID PICK-UP:
FILE No: 22-225A

M2.01

IASE BY GC UP THRU 3RD FLOOR TO NEW EXHAUST FAN EF-1 ON DOF SEE ARCH SET FOR DETAILS 8" X 8" DUCTWORK	SCI C215 1369 SF MC TO CONFIRM WITH DISTRICT LOCATION OF CHEMICAL SHELVING PRIOR TO INSTALLATION OF DUCTWORK AND EXHAUST GRILLES
SECOND FLOOR CHEMICAL STORAGE ROOM VENTILATION PLAN NOTE:ROOMS C212 & C217	SCALE: 1/8" = 1'-0"
EF-1	EF-1

— 80 CFM (TYP. 3)

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

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

CHASE BY GC UP THRU 3RD FLOOR TO NEW EXHAUST FAN EF-1 ON ROOF SEE ARCH SET FOR DETAILS

SCI C214 1369 SF

80 CFM (TYP. 3) ———

NOTE: C-WING ROOF

CHEMICAL STORAGE EXHAUST FANS EF-1

NOTE: FURNISH WITH ROOF CURB MODEL GPI-19

12" X 12" TRANSFER GRILLE FURNISH WITH R1

EF-1	Model: CUBE-100-4		
Model: CUBE-100-4 Belt Drive Upblast Centrifugal Roof Fan Previously: CUBE-101-4 Dimensional Quantity 1 Weight w/o Acc's (lb) 67 Weight w/ Acc's (lb) 70 Weight w/ Acc's and Curb (lb) 86 Max T Motor Frame Size 56 Standard Curb Cap Size (in.) 19 x 19 Roof Opening (in.) 15.5 x 15.5	Ø 24.88	CUBE-100-4 Min/Max Fan Curve Performance Requested Actual Volume Volume (CFM) (CFM) (CFM) (CFM) (CFM) (CFM) (250 250 0.25 893 0.06	
Performance Requested Volume (CFM) 250 Actual Volume (CFM) 250 Total External SP (in. wg) 0.25 Fan RPM 893 Operating Power (hp) 0.06 Elevation (ft) 30 Airstream Temp.(F) 70 Air Density (lb/ft3) 0.075 Drive Loss (%) 36.0 Tip Speed (ft/min) 2,601 Static Eff. (%) 24 Misc Fan Data Fan Eff. Index (FEI) - Outlet Velocity (ft/min) 195	OVERALL HEIGHT MAY BE GREATER DEPENDING ON MOTOR, ADAPTER, AND/OR HINGE BASE. 0.35 0.36 0.28 0.24 0.20 0.25 0.16 0.12 0.08 0.08 0.00 0.00 0.00 0.00	1.4 1.2 1.0 1.0 0.7 0.6 0.5 0.5 0.4 0.4 0.9 0.9 0.7 0.6 0.7 0.6 0.7 0.7 0.6 0.7 0.7 0.7 0.8 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9 0.9	- Roof Curb its between the building roof and the fan mounted directly to the roof support structure - Constructed of either 18 ga galvanized steel or 0.064 in. aluminum - Straight Sided without a cant - 2 in. mounting flange - 3 lb density insulation - Height - Available from 12 in. to 42 in. as specified in 0.5 in.
Motor Motor Mounted Yes Size (hp) 1/4 Voltage/Cycle/Phase 115/60/1 Enclosure EXP Motor RPM 1725 Efficiency Rating Standard Windings 1 NEC FLA* (Amps) 5.8 Min. Circuit Ampacity (MCA) 7.25 Max. Overcurrent Protection (MOP) 15 Short Circuit Current Rtg (SCCR) 5 kA	O.00 0 40 80 120 160 200 240 280 320 360 400 Volume (CFM) Operating Bhp point Operating point at Total External SP Fan curve System curve Brake horsepower curve Notes: All dimensions shown are in units of in. *NEC FLA, MCA and MOP are for reference only – based on tables 430.248 or 430.25 of National Electric Code 2020. Actual motor FLA may vary, for sizing thermal overload, consult factory.	0.2 893 FRPM 0.2 893 FRPM 0.1 Bhp @ Min FRPM 0.0 0.0 0 1 2 3 4 5 6 7 8	increments. Notes: - The maximum roof opening dimension should not be greater than the "Actual" top outside dimension minus 2 in The minimum roof opening dimension should be at least 2.5 in. more than the damper dimension or recommended duct size The Roof Opening Dimension may or may not be the same as the Structural Opening Dimension Damper Tray is optional and must be specified. Tray size is same as damper size Security bars are optional and must be specified. Frames and gridwork are all 12 ga steel. Gridwork is welded to the frame and the frame is welded to the curb. General Sizing Undersizing Weight Shipped Union Label
	MCA and MOP values shown only account for the motor, not accessories (damper actuator, field supplied VFD, etc). LwA - A weighted sound power level, based on ANIS 11.4 dBA - A weighted sound pressure level, based on 11.5 dB attenuation per Cotave hand at 5 ft - dBA (evels are not licensed strength on the control of th	Volume (CFM) x 100 △ Operating Bhp point Operating point at Total External SP Construction Limit Motor/System Limit Fan curve Min FRPM System curve Brake horsepower curve	Curb Outside Outside Width Length (in.) (

ELECTRICAL CONSTRUCTION NOTES (NOT ALL APPLY):

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEC, APPLICABLE LOCAL CODES, STATE CODES,
- SCHOOL WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEER'S SPECIFICATIONS THE VOLTAGE CHARACTERISTIC OF EXISTING BUILDING IS 208Y/120V, 3-PASE, 4-WIRE. THE VOLTAGE CHARACTERISTIC OF THE PROPOSED ADDITION SHALL BE 480/277V, 3-PHASE 4-WIRE WITH 208/120V DERIVED FROM STEP DOWN TRANSFORMERS., ALL
- EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS. THE DRAWINGS SHOW SCHEMATICALLY, THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION, ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER, CONTRACTOR SHALL VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED.
- DIVISION 16 CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS/SPECIFICATIONS AND ACTUAL FIELD
- CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEERS ATTENTION BEFORE BID SUBMITTAL. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL LABOR SERVICE MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL AUTHORITIES HAVING
- DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL
- MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED. DIVISION 16 CONTRACTOR SHALL PAY ANY FEES APPLICABLE TO ELECTRICAL WORK, SUCH AS, BUT NOT LIMITED TO, THE POWER COMPANY, TELEPHONE COMPANY, CATV. CERTIFIED ELECTRICAL INSPECTORS, ALARM AND FIRE PROTECTION COMPANIES.
- THE DIVISION 16 CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK.
- ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE SCHOOL DISTRICT BUILDINGS AND GROUNDS DEPARTMENT. 10. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN INSPECTION CERTIFICATE AND
- PAY ASSOCIATED FEE. SUBMIT A PHOTOCOPY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION. DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN SECTION 1700 OF THE PROJECT MANUAL.
- A COMPLETE SYSTEM OF WIRING, WITH ALL FEEDERS, MAINS, AND BRANCHES AS SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED FROM THE MAIN DISTRIBUTION BOARD TO THE PANELS OUTLETS, MOTORS, AND APPURTENANCES. PROVIDE IDENTIFICATION FOR ALL PANEL AND MOTOR FEEDER CABLES IN PULL BOXES AND AT TERMINATIONS. ANY CONDUCTOR
- VOLTAGES HIGHER THAN 240 VOLTS SHALL BE MARKED ON DEVICES AND JUNCTION BOXES. FURNISH AND INSTALL ALL WIRING OF ANY VOLTAGE OR PURPOSE AS SHOWN ON THE DRAWINGS.
- ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARING COMMON NEUTRALS AMONG BUNDLED CIRCUITS IS SPECIFICALLY DISALLOWED UNLESS OTHERWISE NOTED.
- PULL/JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED OR AS OTHERWISE REQUIRED TO FACILITATE THE PROPER INSTALLATION OF WIRES AND CABLES. CONDUITS MAY BE INCREASED IN SIZE FOR CONSTRUCTION CONVENIENCE. FURNISH AND INSTALL ALL DISCONNECT DEVICES AND SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED TO
- CONFORM WITH REQUIREMENTS. 18. FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE
- 19. DIVISION 16 CONTRACTOR SHALL PROVIDE TO SCHOOL 5 PERCENT SPARE LAMPS (MINIMUM QUANTITY 1) OF EACH TYPE SPECIFIED
- WITH NEW FIXTURES PROVIDE ALL WIRING, PANEL BOARDS, SWITCHES, FUSES, EQUIPMENT, AND ALL INCIDENTAL MATERIALS REQUIRED TO SUPPLY
- TEMPORARY AND PERMANENT ELECTRICAL NEEDS FOR THE WORK INVOLVED, ALL IN ACCORDANCE WITH OSHA, LOCAL, STATE AND UNDERWRITERS REQUIREMENTS. ALL WIRING TO BE 1#12+1#12(N)+1#12(G)-3/4"C., OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. RUN BRANCH CIRCUITS IN DROPPED CEILINGS, VOIDS, & CHASES. CONDUITS MAY BE SURFACE MOUNTED
- EMBEDDED IN SLAB OR MASONRY WALLS, EXCEPT WHERE SURFACE MOUNTED RACEWAY IS SPECIFIED. ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE. 22. ALL CONNECTIONS AND/OR SPLICES SHALL BE MADE ONLY IN ACCESSIBLE JUNCTION BOXES.

IN MECHANICAL SPACES UNLESS OTHERWISE NOTED. CONDUITS IN PUBLIC AREAS SHALL BE CONCEALED IN HUNG CEILINGS,

- ALL COUPLINGS AND CONNECTORS FOR USE WITH EMT SHALL BE COMPRESSION TYPE. SET SCREW TYPE OR INDENT TYPE FITTINGS WILL NOT BE ACCEPTED 24. ALL CONNECTIONS TO CONDUIT RUN UNDERGROUND SHALL BE MADE WATERTIGHT. ALL METALLIC CONDUIT INSTALLED IN EARTH
- FILL, AS WELL AS UNDERGROUND, SHALL BE PAINTED WITH (2) COATS OF ASPHALTUM PAINT OR EQUAL. WIRING INSTALLED IN CEILINGS SHALL BE HUNG INDEPENDENT OF CEILING SYSTEM AND SECURELY TIED TO BUILDING STEEL. ALL LOW VOLTAGE (FIRE ALARM, PA INTERCOM, PHONE, DATA, ETC.) WIRING INSTALLED IN OPEN AREAS SHALL BE IN METALLIC RACEWAY IN MECHANICAL AREAS, GYMNASIUMS, ART ROOMS, STOREROOMS, ETC., AND IN SURFACE MOUNTED RACEWAY IN PUBLIC AREAS, LOW VOLTAGE WIRE INSTALLED IN DROPPED CEILINGS SHALL BE BUNDLED TOGETHER AND SUPPORTED BY BUILDING STEEL. LOW VOLTAGE WIRE SHALL NOT BE SUPPORTED WITH BRANCH CIRCUITS OR FEEDER CIRCUITS AND SHALL NOT BE SUPPORTED BY
- CONDUIT, PIPES, ETC.. LOW VOLTAGE WIRING NOT INSTALLED IN CONDUITS, SHALL BE PLENUM RATED. CONDUITS SHALL BE SECURED IN PLACE AND PROTECTED WHERE NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION. FURNISH AND INSTALL ALL HARDWARE TO PROPERLY SUPPORT ALL CONDUITS NOT INSTALLED IN CONCRETE SLABS OR
- UNDERGROUND ALL CONDUITS OR MC CABLE SHALL BE EQUIPPED WITH AN INSULATING/CHAFE GUARD GROMMET AT WIRE EXIT/ENTRANCE. MC CABLE SHALL USE MC STYLE BUSHINGS. BX OR OTHER BUSHINGS ARE SPECIFICALLY DISALLOWED
- WHERE AN EXISTING CONDUIT OR CABLE IS REQUIRED TO BE REMOVED BUT SERVES AND EXISTING PIECE OF EQUIPMENT WHICH IS TO REMAIN OPERABLE, THE DIVISION 16 CONTRACTOR SHALL REROUTE SAID CONDUIT OR CABLE OR PROVIDE A NEW SOURCE OF POWER (APPROVED BY ENGINEERING) TO THIS EQUIPMENT AS A PART OF THIS CONTRACT.
- ALL PANELS, SWITCHES, DISCONNECT STARTERS, OR OTHER ELECTRIC SYSTEM CONTROLS SHALL BE STENCILED WITH THEIR APPROPRIATE DESIGNATION/FUNCTION. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED BY A PANEL SCHEDULE OR STENCIL ADJACENT
- 32. ALL CIRCUIT BREAKERS POSITIONS IN ALL PANELS ARE SHOWN FOR ESTIMATE PURPOSES ONLY. EC IS RESPONSIBLE FOR LOAD ALL DEVICES SHALL BE FASTENED IN PLACE SECURELY, GRID MOUNTING LIGHTING FIXTURES SHALL BE SECURED TO GRID WITH
- CLIPS LISTED FOR THE PURPOSE OR SUSPENDED FROM STRUCTURE PER NEC. 34. WORK WHICH MUST BE DONE IN OCCUPIED AREAS SHALL BE DONE AT SUCH TIMES AS INDICATED IN THE PHASING OF
- CONSTRUCTION AND AS APPROVED BY THE SCHOOL. WHERE THE DIVISION 16 CONTRACTOR IS INSTRUCTED TO PROVIDE, INSTALL AND WIRE CIRCUIT BREAKER(S) TO AN EXISTING PANEL AND THAT PANEL DOES NOT HAVE THE ROOM TO INSTALL REQUIRED CIRCUIT BREAKERS. THE DIVISION 16 CONTRACTOR SHALL REMOVE (3) ADJACENT 1P CIRCUIT BREAKERS AND PROVIDE A 3P. 60A BREAKER IN THEIR PLACE FOR SUB FEED TO A SURFACE MOUNTED 100A,3~,4W,24 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL, EACH WITH REQUIRED CIRCUIT BREAKERS. PROVIDE (3) 1P, AMPERAGE AS BEFORE CIRCUIT BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND
- RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3#6+1#6(N)+1#10(G)-1"C. 36. SELECTED RECEPTACLES AS SHOWN ON DRAWINGS MAY BE GFI PROTECTED BY CONNECTING TO GFCI RECEPTACLE FIRST IN CIRCUIT, ALL RECEPTACLES THAT ARE PROTECTED FROM AN UPSTREAM GFCI UNIT SHALL BE VISABLY LABELED AS SUCH, GFCI
- RECEPTACLE SHALL BE SPEC GRADE AND RATED 20A, WITH OPERATING NOTIFICATION INDICATING LIGHT. ALL DEVICES ADDRESSED BY ADA REGULATIONS SHALL BE INSTALLED AT ADA COMPLIANT HEIGHT AND LOCATIONS. ALL NEW LIGHTING OR EXISTING LIGHTING HAVING SWITCHING REARRANGEMENT SHALL BE EQUIPPED WITH CODE COMPLIANT ENERGY CONSERVATION CONTROLS. SUCH CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO
- REMOVAL OF ELECTRICAL ITEMS INCLUDES THEIR DISPOSAL. THE EXCEPTION WILL BE TO TURN OVER TO THE OWNER ITEMS, IF ANY, THEY SPECIFY TO BE RETAINED IN THEIR INVENTORY. PCB OR ASBESTOS BEARING MATERIAL SHALL BE DISPOSED OF IN
- ACCORDANCE WITH LAWS AND REGULATIONS. 40. EC SHALL PROVIDE & WIRE WEATHERPROOF GFCI RECEPTACLES ON ALL APPLICABLE ROOFTOP UNITS AS PART OF HIS BID. SEE
- MECHANICAL EQUIPMENT SCHEDULES FOR UNITS WITH SERVICE RECEPTACLES FACTORY INSTALLED. 41. UNLESS OTHERWISE NOTED, STARTERS AND DISCONNECTS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL POWERED MECHANICAL EQUIPMENT. THE DIVISION 16 CONTRACTOR IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING FROM SOURCE TO UNIT VIA STARTERS AND DISCONNECTS. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE DIVISION 16 CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS, EQUIPMENT SCHEDULES & NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, .AND THE REMOVAL OF ANY STARTERS/DISCONNECTS NO LONGER REQUIRED.

DEMOLITION NOTES (NOT ALL APPLY):

- THE ITEMS SPECIFICALLY SHOWN ON DEMOLITION DRAWING/S ARE TO BE ADDRESSED BY THE ELECTRICAL CONTRACTOR. THE ITEMS ARE TO BE TREATED AS NOTED AND RANGE FROM DIRECT REMOVAL AND DISPOSAL, OR REMOVAL, STORAGE, AND
- REINSTALLATION/RELOCATION, OR TEMPORARY REMOVE/STORAGE, AND REINSTALLATION IN SAME LOCATION. MANY OTHER ELECTRIC ITEMS EXIST THAT ARE NOT SHOWN INCLUDE, BUT ARE NOT LIMITED TO, SWITCHES, RECEPTACLE, FLOOR OUTLETS, LOW VOLTAGE JACKS, LOW VOLTAGE DEVICES AND WIRING, TELEPHONE PUNCH DOWN BLOCKS, AND OUT OF SERVICE ITEMS. ALL SUCH ITEMS SHALL BE PERMANENTLY DE-ENERGIZED, DISCONNECTED, AND OTHERWISE MADE SAFE FOR DEMOLITION BY NON-ELECTRIC DEMOLITION WORKERS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL ELECTRIC DEVICES, OF ANY VOLTAGE OR FUNCTION, THAT ARE TO BE DEMOLISHED ARE SAFE AND ADVISE THE DEMOLITION
- AFTER THE ELECTRICAL CONTRACTOR HAS DISCONNECTED ELECTRIC SUPPLIES TO ITEMS TO BE DEMOLISHED, HE SHALL ADVISE THE GENERAL CONTRACTOR OF ANY ELECTRIC ITEMS TO BE RETAINED FOR FUTURE USE AND THEREFOR NOT TO BE DEMOLISHED. THE GENERAL CONTRACTOR SHALL THEN PERFORM ALL WORK ZONE DEMOLITION. THIS MATTER APPLIES TO ALL ELECTRIC ITEMS. OF ANY VOLTAGE OR PURPOSE. THE SPECIAL/SPECIFIC ITEMS SHOWN ON THE DRAWING FOR ELECTRICAL CONTRACTOR TO ACT ON WERE FOUND BY SURVEY.
- NUMEROUS LOCATIONS WERE BLOCKED BY FURNITURE, ETC. AND ADDITIONAL EQUAL TYPE ITEMS MAY BE PRESENT. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THIS IN HIS BID PRICE AND ATTEND TO THOSE EQUAL OR SIMILAR DEVICES AS MAY
- REMOVAL ITEMS THAT ARE LISTED AS TO BE TURNED OVER TO OWNER'S INVENTORY SHALL BE DISCUSSED WITH THE DISTRICT BUILDINGS AND GROUNDS MANAGER. THOSE ITEMS THAT THE OWNER DECLINES SHALL THEN BE DISPOSED OF BY THE CONTRACTOR IN THE MANOR OF OTHER PERMANENT REMOVALS. ANY PCB BEARING FLUORESCENT FIXTURES SHALL BE DISPOSED OF PER REGULATIONS.
- RETAIN EXISTING RECEPTACLES IN WALLS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. RETAIN LIGHT SWITCH LOCATIONS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. INSTALL BLANKING PLATE COVERS OVER THE UNUSED PORTION OF GANG BOXES HAVING MORE GANG POSITIONS THAN NEEDED FOR NEW SWITCHES. LIGHT FIXTURES ARE TO BE REMOVED AS GENERAL. NON ELECTRIC. CONTRACTOR DEMOLITION. DIVISION 16 CONTRACTOR RESPONSIBLE TO SAFE OFF LIGHTUING CIRCUITS FOR REMOVAL BY OTHERS. NO SPECIFIC QUANTITIES OR LOCATIONS ARE SHOWN. RETURN WHATEVER QUANTITY. IF ANY, OF THESE TO OWNER'S INVENTORY IF HE SO SPECIFIES OR THEY ARE
- OTHERWISE TO BE DISPOSED OF. ELECTRICAL CONTRACTOR SHALL EXAMINE FIXTURES FOR PRESENCE OF PCB'S AND SPECIAL THE ELECTRICAL CONTRACTOR SHALL COVER ALL BACK BOXES IN THE WALL THAT BECOME EXPOSED DUE TO DEVICE REMOVALS. THIS INSTRUCTION ALSO APPLIES TO EXPOSED ELECTRICAL BACK BOXES AS MAY EXIST AT THE SITE PRIOR TO THIS PROJECT. THE COVER SHALL BE BRUSHED ALUMINUM WITH CHAMFERED EDGES AND COVER THE HOLE COMPLETELY WITH AT LEAST 3/4"
- EXTRA MARGIN ON ALL SIDES. MOUNT THE COVER WITH SCREWS TO MATCH THE ORIGINAL PATTERN. IT IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRIC SUPPLIES, OF VARIOUS VOLTAGES AND PURPOSES. TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRIC SOURCES WHEN THE NEW STRUCTURE IS BUILT. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. PROVIDE ALL REQUIRED CIRCUIT EXTENSIONS AS REQUIRED TO RESTORE SERVICE TO DEVICES. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NOMINALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTOR'S
- IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES, FROM DAMAGES DURING CONSTRUCTION, WHICH ARE EITHER INDICATED TO REMAIN, AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO: SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLE, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY
- ALL SYSTEM ASSOCIATED WITH THE DEVICES SCHEDULED TO BE REMOVED, STORED AND PROTECTED SHALL BE TESTED BY THE MANUFACTURER'S CERTIFIED TESTING VENDOR PRIOR TO ANY DEMOLITION ACTIVITY. ANY DEVICE WHICH FAILS THE TEST SHALL BE REPLACED WITH A FORM, FIT AND FUNCTION COMPONENT PER UNIT PRICES, AND SUCH DEVICES ARE NOT INCLUDED IN THIS RESPONSIBILITY STATEMENT, BUT ALSO SUCH INSTALLATION SHALL BE IN THE ELECTRICAL CONTRACTOR'S BASE BID. THE ELECTRICAL CONTRACTOR SHALL RE-TEST ALL SUCH SYSTEM COMPONENTS BY A MANUFACTURER CERTIFIED TESTING VENDOR OF SUCH SYSTEM OF ALL PREVIOUSLY TESTED SYSTEM COMPONENTS AFTER ALL WORK BY ALL TRADES HAS BEEN COMPLETED. AND ALL SYSTEM COMPONENTS HAVE BEEN INSTALLED. ANY COMPONENT WHICH FAILS SHALL BE REPLACED, AND PROGRAMMED IF NECESSARY BY THE ELECTRICAL CONTRACTOR. ALL SUCH REPLACEMENT AND PROGRAMMING COSTS SHALL BE ELECTRICAL CONTRACTOR'S RESPONSIBILITY. ALL COSTS ASSOCIATED WITH THE TESTING OF AFFECTED SYSTEM SUCH AS BUT NOT LIMITED TO FIRE ALARM, PUBLIC ADDRESS, INTERCOM, TELEPHONE, AND SECURITY SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL EQUIPMENT, DEVICES, WIRING AND THEIR ASSOCIATED MATERIAL SPECIFIED TO REMAIN, WHICH IS NOT STORED AND PROTECTED, SHALL BE PROTECTED DURING THE DEMOLITION ACTIVITIES, AND ALL TRADES SHALL BE INFORMED OF SUCH COMPONENTS. ANY OF SUCH COMPONENTS WHICH BECOME DAMAGED DURING DEMOLITION SHALL BE REPLACED FORM, FIT AND FUNCTION BY THE ELECTRICAL CONTRACTOR AT HIS EXPENSE.

ABBREVIATIONS

PSEGLI

EC, E.C.

DAMAGED DEVICES AT NO ADDITIONAL COST TO OWNER.

E, EX **EXISTING**

EXISTING TO REMAIN

PSE&G LONG ISLAND (UTILITY CO.)

SM, S.M. SURFACE MOUNTED

U.O.N. UNLESS OTHERWISE NOTED

ELECTRICAL CONTRACTOR GC, G.C. GENERAL CONTRACTOR

MC, M.C. MECHANICAL CONTRACTOR

PC, P.C. PLUMBING CONTRACTOR

TYPICAL

REQ'D REQUIRED

ON CENTER

CIRCUIT AWAY FROM FLOOR

CIRCUIT BREAKER

RECEPTACLE

ABOVE COUNTERTOR

TEMPORARY POWER CONSTRUCTION NOTES: (NOT ALL APPLY)

- THE DIVISION 16 CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHT IN THE NEW AREAS 'D', AND 'E' AND THE RECONSTRUCTED AREAS OF THE EXISTING BUILDING.
- ALL TEMPORARY POWER PANELS AND FUSED SWITCHES OUTSIDE SHALL BE NEMA 3R CONSTRUCTION AND LOCKABLE. ALL OUTSIDE RECEPTACLES SHALL BE WATERPROOF AND HAVE A COVER THAT ENCLOSES THE PLUGGED IN CORDS WHILE IN SERVICE AS INTERMATIC WP120C. NON-WATERPROOF GEAR IN A HOUSING IS NOT ACCEPTABLE.
 - ALL RECEPTACLES SHALL BE GFCI PROTECTED AND MOUNTED 3'-0" ABOVE FINISHED FLOOR. PROVIDE WORK BLOCKING AS REQUIRED. ALL RECEPTACLES OUTLETS SHALL BE 2 GANG DOUBLE DUPLEX. TEMPORARY LIGHTING SHALL BE CONSTRUCTED OF SINGLE AND DOUBLE 100 WATT CLEAR INCANDESCENT LAMPS, OR
- EQUIVALENT, AND WATERPROOF RUBBER SOCKETS, SPLICED WITH WATERPROOF CONNECTORS ON FESTOONED ROMEX-TYPE WIRE. ADEQUACY OF ALL TEMPORARY LIGHTING CONFIGURATIONS SHALL BE AS DETERMINED BY THE CONSTRUCTION MANAGER, PRE ASSEMBLED TEMPORARY LIGHTING IS DISALLOWED. TAPS AND SPLICES SHALL BE MADE WITH SCOTCH LOCK CONNECTORS, RUBBER TAPE, AND THEM PVC COATED. THE CONNECTORS SHALL BE FILLED WITH PENETROX. A PLASTIC SHAPE ON CAGE/GUARD SHALL PROTECT EACH SOCKET AND LAMP. NOMINAL SPACING BETWEEN LAMP CLUSTER IS 16 FEET. MOUNT LIGHTS EIGHT FEET ABOVE FINISHED FLOOR IN TYPICAL LOCATIONS AND 10 FEET ABOVE FINISHED FLOOR IN CORRIDOR. PROVIDE NIGHT LIGHTING CIRCUIT, WHICH SHALL OPERATE CONTINUOUSLY. ALL LAMPS SHALL BE 130 VOLT, ROUGH SERVICE RATED. TEMPORARY LIGHTS SHALL BE TO OSHA STANDARDS. ALTERNATE FIXTURES SHALL BE 400W CONSTRUCTION SITE STYLE PROVIDE HOOK UPS TO JOB TRAILER FOR ALL TRADES. USE SITE POWER AS SOURCE. OWNER PAYS FOR POWER CONSUMPTION.
- WIRING SHALL BE 1#12+1#12(N)+1#12(G) ROMEX STYLE. CIRCUITS SHALL BE OPERATED A MAXIMUM OF 15 AMPS OR 1800 WATTS (18 100 WATT LAMPS), SWITCHING SHALL BE DONE VIA THE SWITCH RATED 20A, 10 CIRCUIT BREAKERS. SEGREGATE THE NIGHT LIGHTS AND RECEPTACLES IN THE LOWER PART OF THE POWER PANELS AND LABEL THESE "<u>DO NOT</u> TURN OFF". CIRCUIT HOME RUNS CONDUCTORS SHALL INCREASE ONE WIRE SIZE EVERY 100 FEET I.E. #10 CONDUCTORS.
- VIRING WITHIN THE ROOM AREA SHALL BE MADE WITH #12 CONDUCTORS. THE DIVISION 16 CONTRACTOR SHALL PREPARE EACH PANEL SCHEDULE
- A LENGTH OF GREENFIELD FLEX CONDUIT AT PINCH POINTS SHALL PROTECT ALL WIRE, SUCH AS WHERE WIRING PASSED THROUGH A DOORWAY. WIRING SHALL BE SUPPORTED FROM ANCHORS INSTALLED BY THE DIVISION 16 CONTRACTOR FOR THE PURPOSE OF ATTACHMENT TO PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.
- ALL WIRING SHALL BE INSTALLED SO AS NOT TO CAUSE TRIPPING HAZARD OR SIMILAR OBSTRUCTION. POWER PANELS SHALL BE EQUIPPED WITH 42 1P, 20A CIRCUIT BREAKERS AND ALL CIRCUIT BREAKERS NOT IN SERVICE SHALL BE LABELED SPARE. AT THE OWNERS OPTION PANEL AND CIRCUIT BREAKERS SHALL BE TURNED OVER TO OWNERS INVENTORY AT CONCLUSION OF THE PROJECT, ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.
- THE DIVISION 16 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF TEMPORARY LIGHTING AND POWER SYSTEMS DURING. AND AFTER INSTALLATION, UP TO THE TIME OF BENEFICIAL OCCUPANCY, AND TIME OF REMOVAL. REPAIRS SHALL BE MADE WITHIN 24 HOURS OF THE REPORTED OUTAGE, OR AS DIRECTED BY THE CONSTRUCTION MANAGER. DIVISION 16 CONTRACTOR SHALL COMMENCE WORK ON THIS PROJECT WITH A GROSS OF SPARE CONSTRUCTION BULBS AT HIS IMMEDIATE
- THE PROJECT IS COMPLETE. ALL EQUIPMENT, WIRING SUPPORTS, CONNECTORS, ETC. SHALL BE REMOVED FROM OWNER'S PROPERTY AFTER PROJECT IS COMPLETE. INCLUDE STATEMENT OF REMOVAL WITHIN CLOSE OUT DOCUMENTS, REQUIRED FOR FINAL PAYMENT PROVIDE THE TEMPORARY ELECTRICAL SERVICE TO THE CONSTRUCTION TRAILERS SHALL BE AS PER USERS REQUIREMENTS

REMOVAL OF THE TEMPORARY POWER AND LIGHTING SHALL BE THE RESPONSIBILITY OF THE DIVISION 16 CONTRACTOR WHEN

OF THE TRADES. TEMPORARY SERVICES ARE REQUIRED PER SPECIAL CONDITIONS OF THE PROJECT. 15. ALL TEMPORARY POWER WORK SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER SPECIAL EMPHASIS SHALL BE EXERCISED FOR TERRAZZO MACHINES AND ITS ELECTRICAL REQUIREMENT.

FIRE STOP NOTES:

1. ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED. 2. THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, 6P-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-635 TROWEL ABLE COMPOUND, AS

3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS SPECIFIED OR EQUAL

4. FIRE STOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS AND STATEMENT FROM MANUFACTURER THAT THEY MEET OR EXCEED THE PRODUCTS SPECIFIED

5. ALL SYSTEMS SHALL HAVE THEIR OWN SLEEVE THROUGH FIRE RATED WALLS. IE FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA, POWER AND LIGHTING.

ELECTRICAL SYMBOL LEGEND UNDERGROUND HAND HOLE JUNCTION BOX HIGH BAY LIGHTING POLE MOUNTED LIGHTING LIGHTING SWITCH. 'xx' DENOTES SWITCH LEG RECEPTACLE. WP DESIGNATES WEATHER PROOF. GFI DESIGNATES GROUND FAULT INTERRUPTER.

SIMILAR SYMBOLS USED ON DEMO PLANS. ALL ITEMS SHOWN ON DEMO PLAN TO BE REMOVED ENTIRELY UNLESS OTHERWISE NOTED.

LINE DESIGNATIONS

EXISTING TO REMAIN DEVICES DEVICES TO BE REMOVED. PULL BACK ALL ASSOCIATED CONDUIT AND WIRING AND REMOVE UNLESS OTHERWISE NOTED ON THE PLANS. (UNDERGROUND ELEC CONDUIT ON SITE NEW DEVICES

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IME ALL EXISTING CONDITIONS SHOWN ARE REPRESENTED

AS SUGGESTIVE INFORMATION AS THEY MAY NOT HAVE BEEN

BUILT AND DETAILED PER THE ORIGINAL DOCUMENTS OR PER

THE OWNER'S INFORMATION.

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EEA

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CHK. BY:

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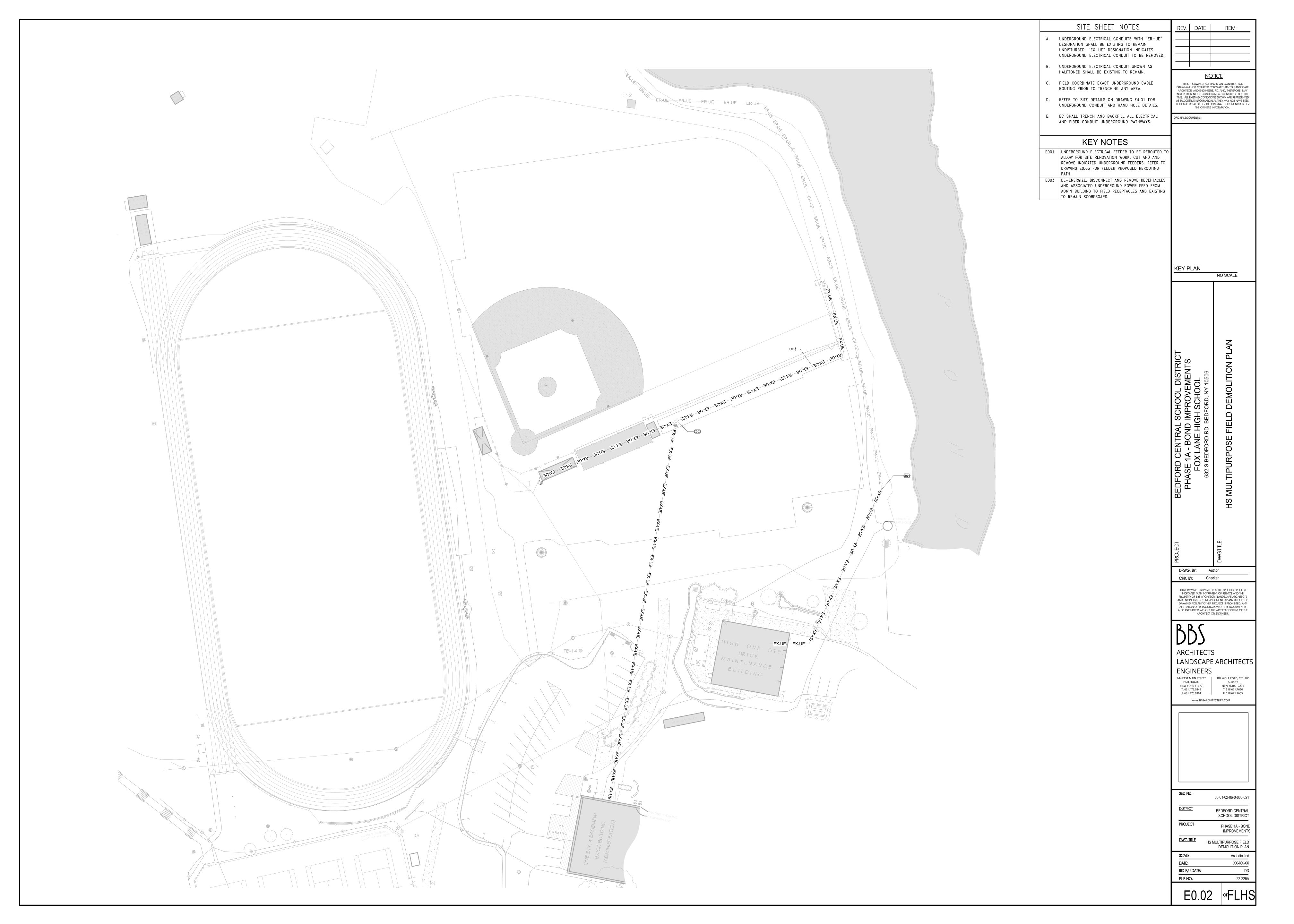
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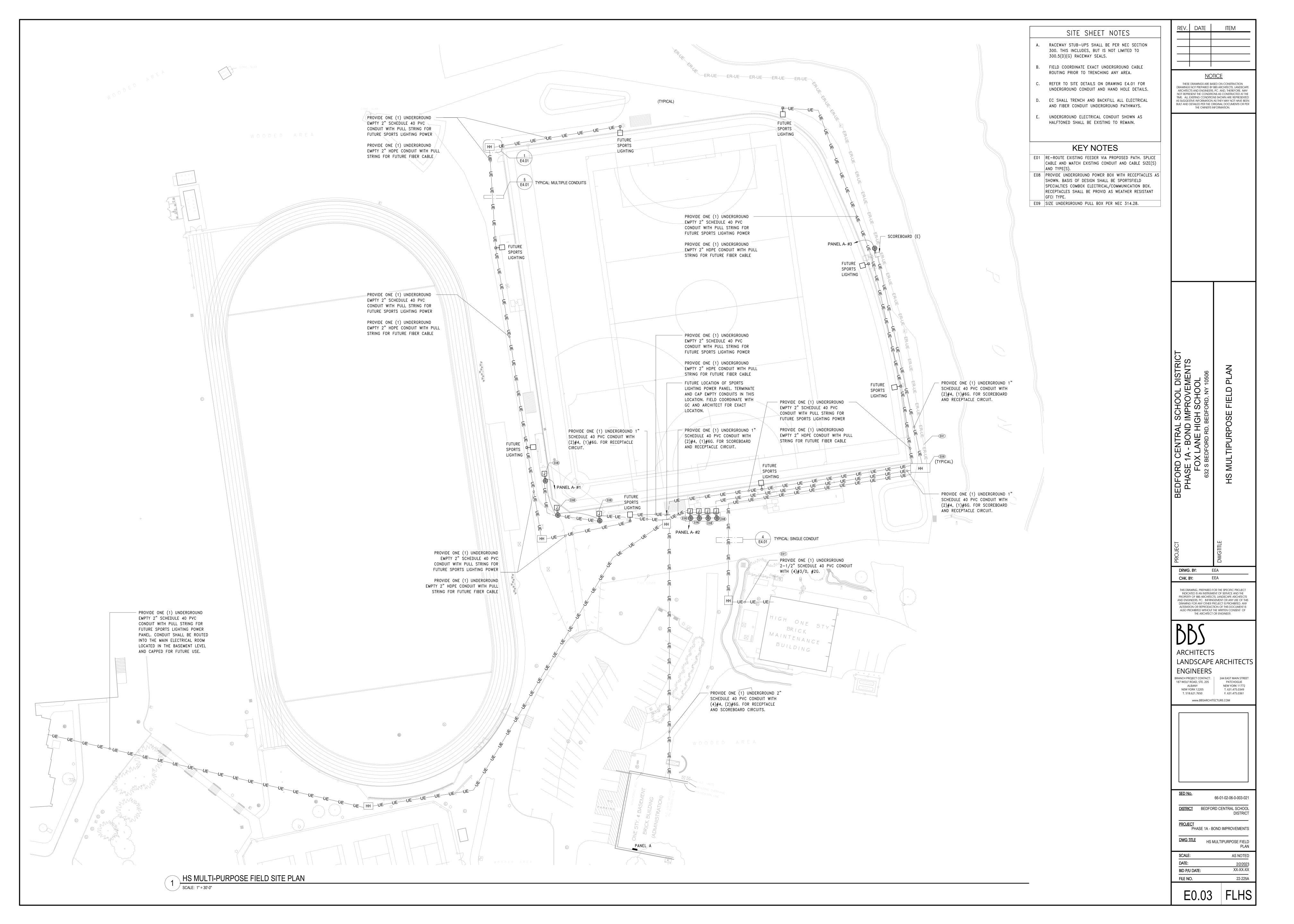
66-01-02-06-0-003-021 **DISTRICT** BEDFORD CENTRAL SCHOOL

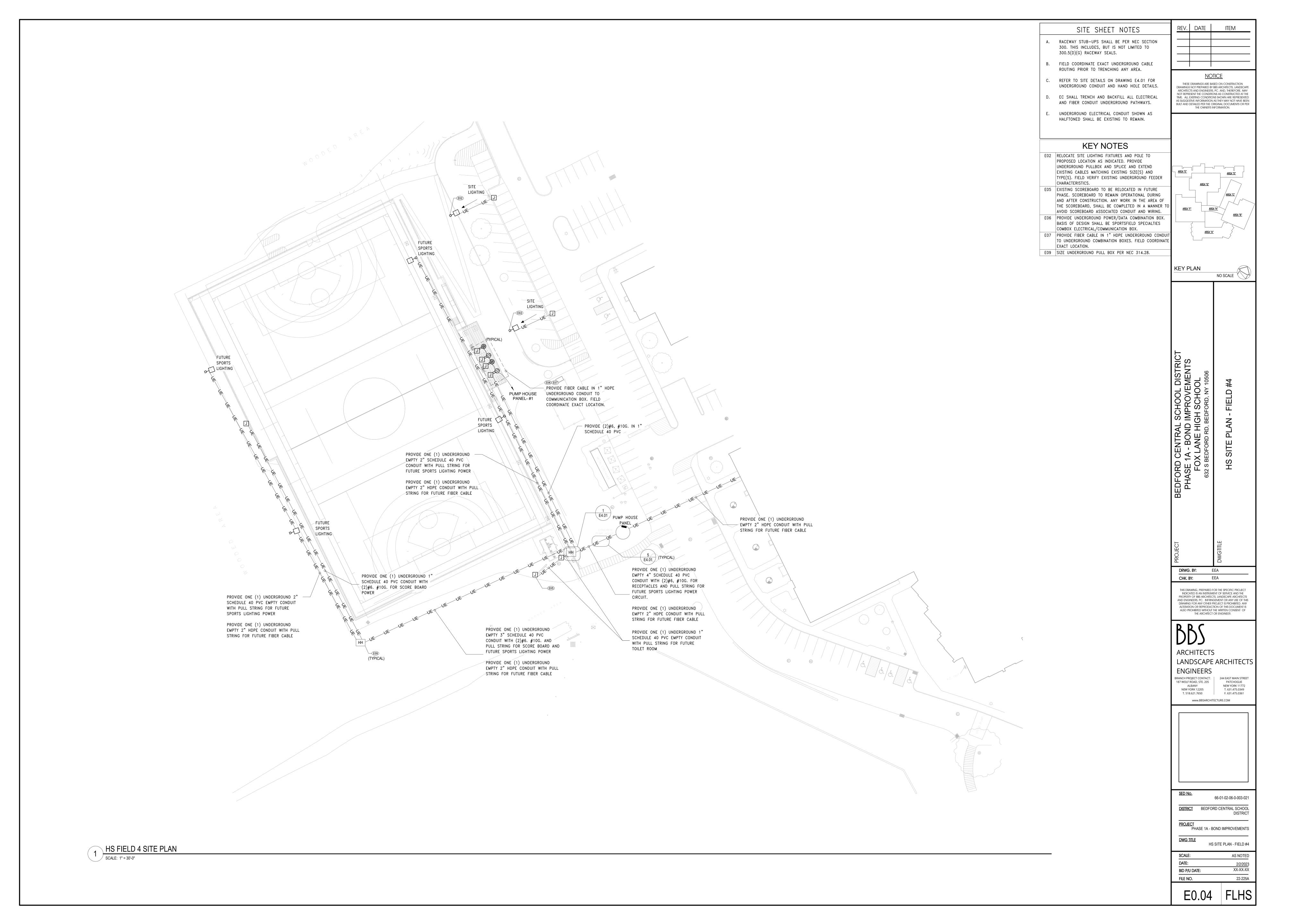
PHASE 1A - BOND IMPROVEMENTS

DWG TITLE GENERAL NOTES, LEGENDS AND ABBREVIATIONS SCALE:

BID P/U DATE:









REV. DATE ITEM

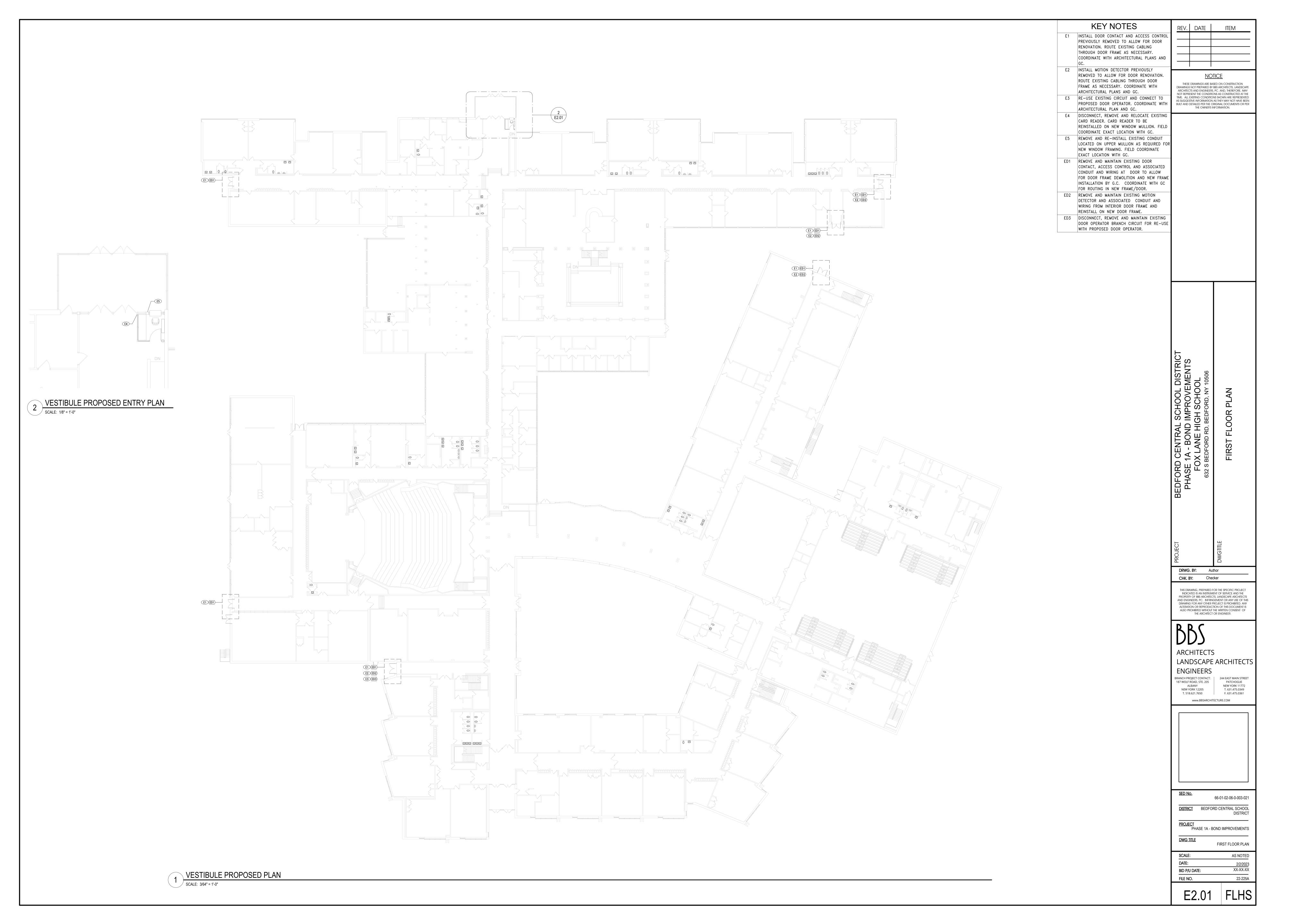
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LANDSCAPE ARCHITECTS

66-01-02-06-0-003-021 BEDFORD CENTRAL SCHOOL DISTRICT PHASE 1A - BOND IMPROVEMENTS

3/32" = 1'-0" XX-XX-XX 01/31/23 22-225A

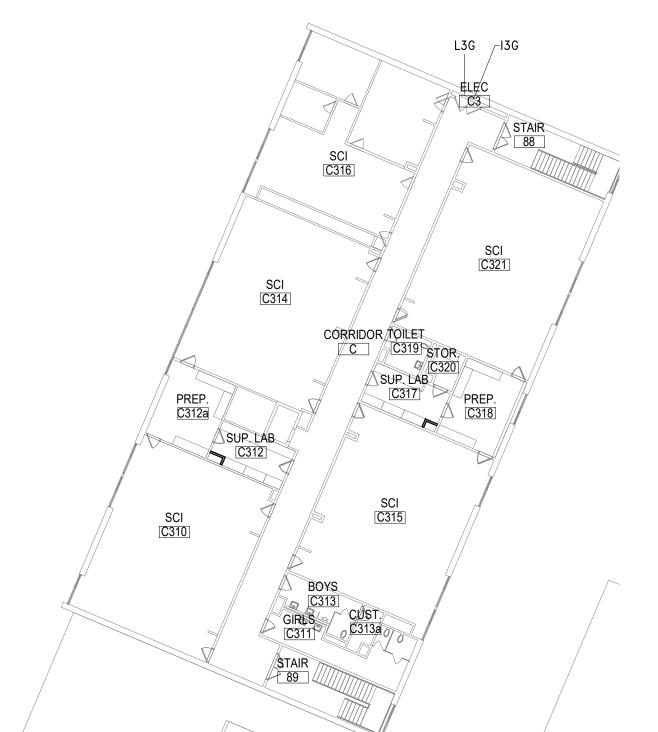




	Electrical Equipment Schedule													
TAG	DESCRIPTION	VOLTAGE	PHASE	AMPS - (FLA/MCA)	POWER PANEL	CIRCUIT NUMBER	BREAKER RATING	WIRE	PROVIDE DISCONNECT	DISCONNECT	VFD	PROVIDE DUCT SMOKE	FSD	Notes
EF-1	EXHAUST FAN	120 V	1	5.8 FLA	L3G	38	20A-1P	(2)#12, #12G. IN 3/4"C.	Yes	MC FURNISHED/EC INSTALLED				
EF-2	EXHAUST FAN	120 V	1	5.8 FLA	L3G	34	20A-1P	(2)#12, #12G. IN 3/4"C.	Yes	MC FURNISHED/EC INSTALLED				

Location: Supply From: Mounting: SURFACE					Volts: 120/208 Wye Phases: 3 Wires: 4						A.I.C. Rating: Mains Type: MLO Mains Rating: 200 A		
СКТ	Circuit Description	Trip	Poles		A		В		С	Poles	Trip	Circuit Description	СКТ
1	EXISTING CKT	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT	2
3	EXISTING CKT	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT	4
5	Spare	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT	6
7	Spare	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT	8
9	EXISTING CKT	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT	10
11	EXISTING CKT	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT	12
13	EXISTING CKT	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT	14
15	Spare	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT	16
17	Spare	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT	18
19	EXISTING CKT	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT	20
21	EXISTING CKT	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT	22
23	EXISTING CKT	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT	24
25	EXISTING CKT	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT	26
27	EXISTING CKT	20 A	1			0 VA	0 VA			1	20 A	EXISTING CKT	28
29	EXISTING CKT	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT	30
31	EXISTING CKT	20 A	1	0 VA	0 VA					1	20 A	EXISTING CKT	32
33	Spare	20 A	1			0 VA	696 VA			1	20 A	EF-2 (NOTE 1)	34
35	EXISTING CKT	20 A	1					0 VA	0 VA	1	20 A	EXISTING CKT	36
37	EXISTING CKT	70 A	3	0 VA	696 VA					1	20 A	EF-1 (NOTE 1)	38
39						0 VA	360 VA			1	20 A	ROOFTOP CONV RECEPT (NOTE 1)	40
41								0 VA	0 VA	1	20 A	EXISTING CKT	42
	1	Tota	l Load:	696	S VA	105	6 VA	0	VA			1	

NOTE 1: PROPOSED BREAKER SHALL MATCH EXISTING PANEL TYPE AND AIC RATING.



PARTIAL THIRD FLOOR

SCALE: 3/64" = 1'-0"

BEDFORD CENTRAL SCHOOL DISTRICT PHASE 1A - BOND IMPROVEMENTS FOX LANE HIGH SCHOOL	ROOF PLAN
PROJECT	DWGTIILE
DRWG. BY: CHK. BY:	EEA EEA
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ARCHITECTS

66-01-02-06-0-003-021 DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT PROJECT
PHASE 1A - BOND IMPROVEMENTS

DWG TITLE ROOF PLAN AS NOTED

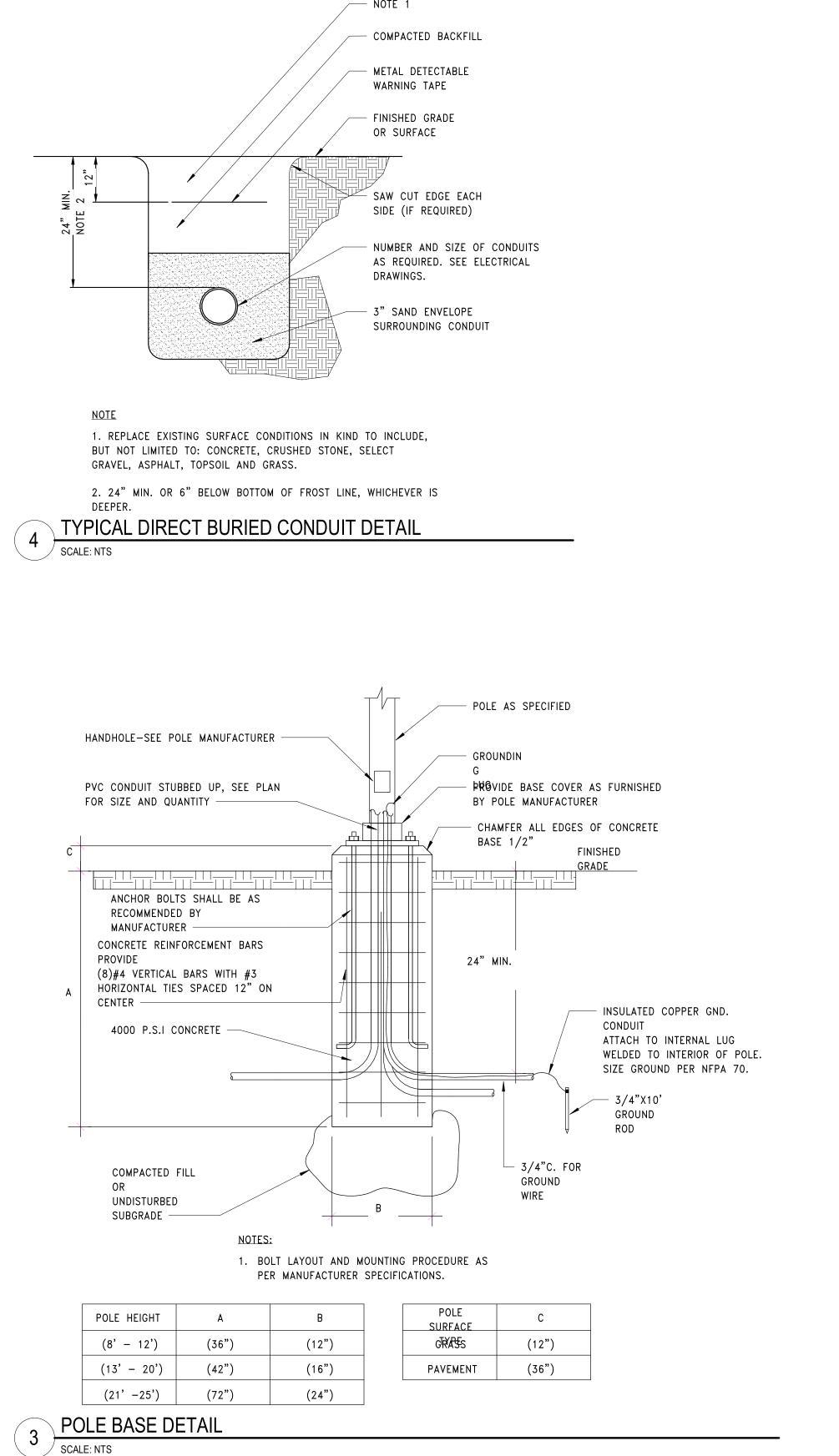
SCALE:

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BID P/U DATE:

FILE NO. 2/2/2023 XX-XX-XX

E3.01 FLHS



— DRILL WALL AND INSERT REBARS. USE NON-SHRINK GROUT. REFER TO DUCTBANK SECTIONS FOR

WRAP ALL JOINTS 100% WATER TIGHT

— #4 REBARS, 5'-0"

VAPOR

ON TOP AND BOTTOM OF DUCTBANK TYPICAL - SEAL

BARRIER TO CONDUIT

PVC CONDUIT

QUANTITY OF REBARS

PULLBOX -

SEE NOTE _____

A. NAMEPLATE,

NYLON

SCALE: NTS

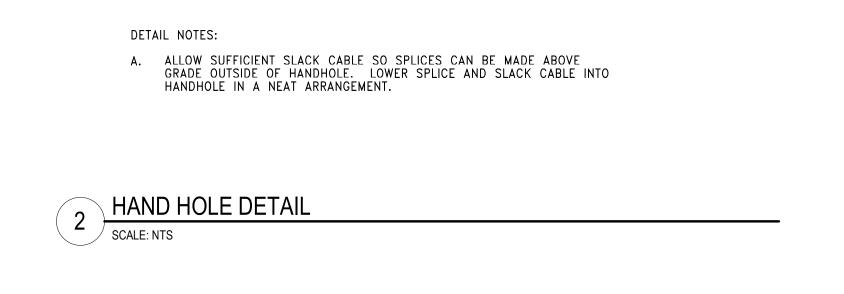
CABLE TIE.

DETAIL NOTES:

AI EACH CONDUIT, PROVIDE AN ENGRAVED PLASTIC

INDICATING CONDUIT NO., AND ATTACH TO CONDUIT WITH

CONDUIT PENETRATION INTO BUILDING DETAIL



7" MINIMUM SPACING -

1. REPLACE EXISTING SURFACE CONDITIONS IN KIND TO INCLUDE,

2. 24" MIN. OR 6" BELOW BOTTOM OF FROST LINE, WHICHEVER IS

5 TYPICAL DIRECT BURIED CONDUIT DETAIL - MULTIPLE

BUT NOT LIMITED TO: CONCRETE, CRUSHED STONE, SELECT

GRAVEL, ASPHALT, TOPSOIL AND GRASS.

<u>NOTE</u>

DEEPER.

SLOPE FINISH GRADE

AWAY FROM COVER

TWO (2) COURSES

(MIN.) BRICK. PLACE

REQUIRED TO BRING

FINISH GRADE.

HANDHOLE

EDGE.

ADDITIONAL BRICK AS

FRAME UP TO PROPER

PROVIDE 2' X 2' X 4' ----

12" OF #2 CRUSHED STONE

MINIMUM OF 6" AROUND OUTSIDE

BELOW HANDHOLE. EXTEND

SCALE: NTS

NOTE 1

- COMPACTED BACKFILL

- METAL DETECTABLE

WARNING TAPE

FINISHED GRADE OR SURFACE

SAW CUT EDGE EACH

NUMBER AND SIZE OF CONDUITS

AS REQUIRED. SEE ELECTRICAL

SIDE (IF REQUIRED)

3" SAND ENVELOPE

SURROUNDING CONDUIT

DRAWINGS.

PROVIDE FRAME AND DESIGNATED

GROUT FRAME.

HANDHOLES IN VEHICULAR

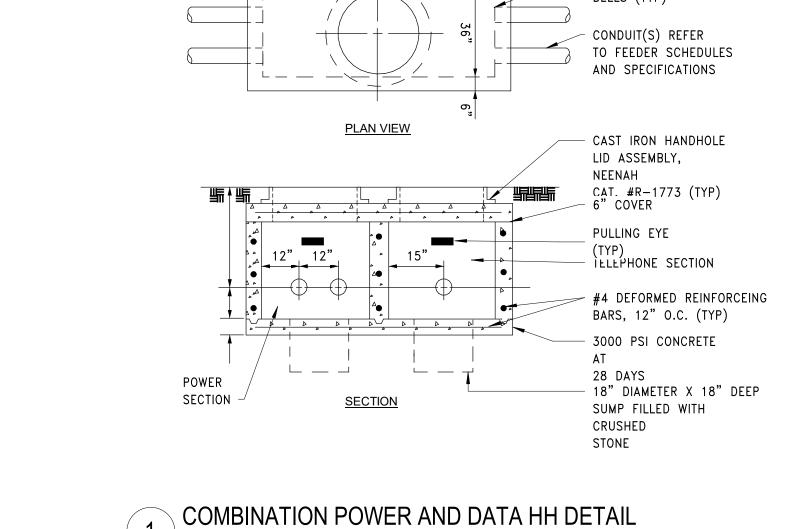
— DO NOT LOCATE

TRAFFIC AREAS

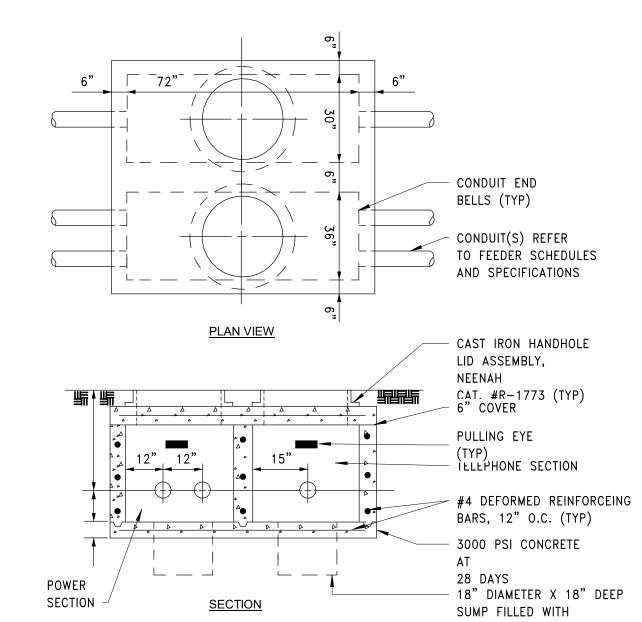
 $\stackrel{\cdot}{\longrightarrow}$ 4" X 10" KNOCKOUTS. TWO (2)

ON ALL FOUR SIDES.

COVER; AS SPECIFIED.

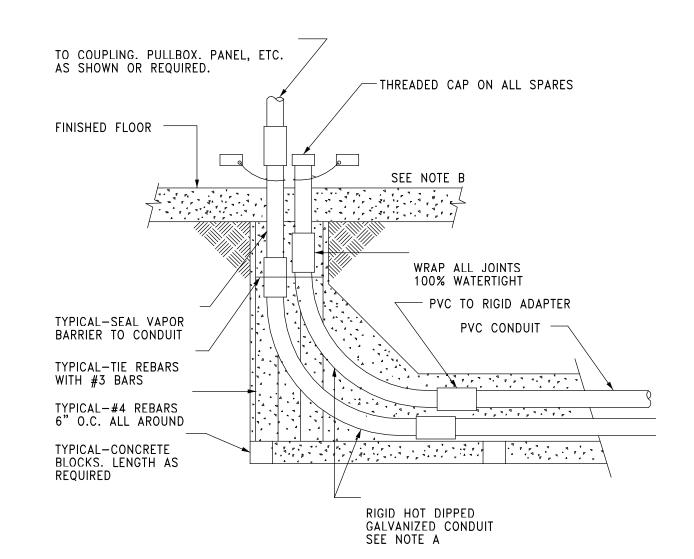


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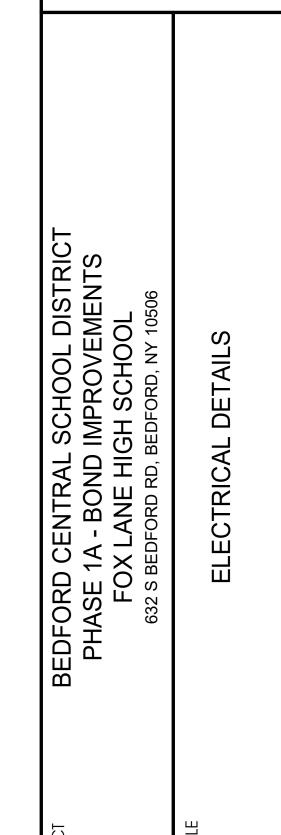




DETAIL NOTES:



A. WHERE CONDUIT STUBS UP UNDER FLOOR MOUNTED EQUIPMENT SUCH AS SWITCHGEAR, PROVIDE PVC ELBOWS IN LIEU OF RIGID SHOWN. B. AT EACH CONDUIT STUB-UP. AFFIX ENGRAVED PLASTIC NAMEPLATE INDICATING CONDUIT NO. OR CIRCUIT IDENTIFICATION. ATTACH WITH NYLON CABLE TIE.



DRWG. BY: Author

CHK. BY: Checker

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LANDSCAPE ARCHITECTS

244 EAST MAIN STREET

PATCHOGUE NEW YORK 11772

REV. DATE

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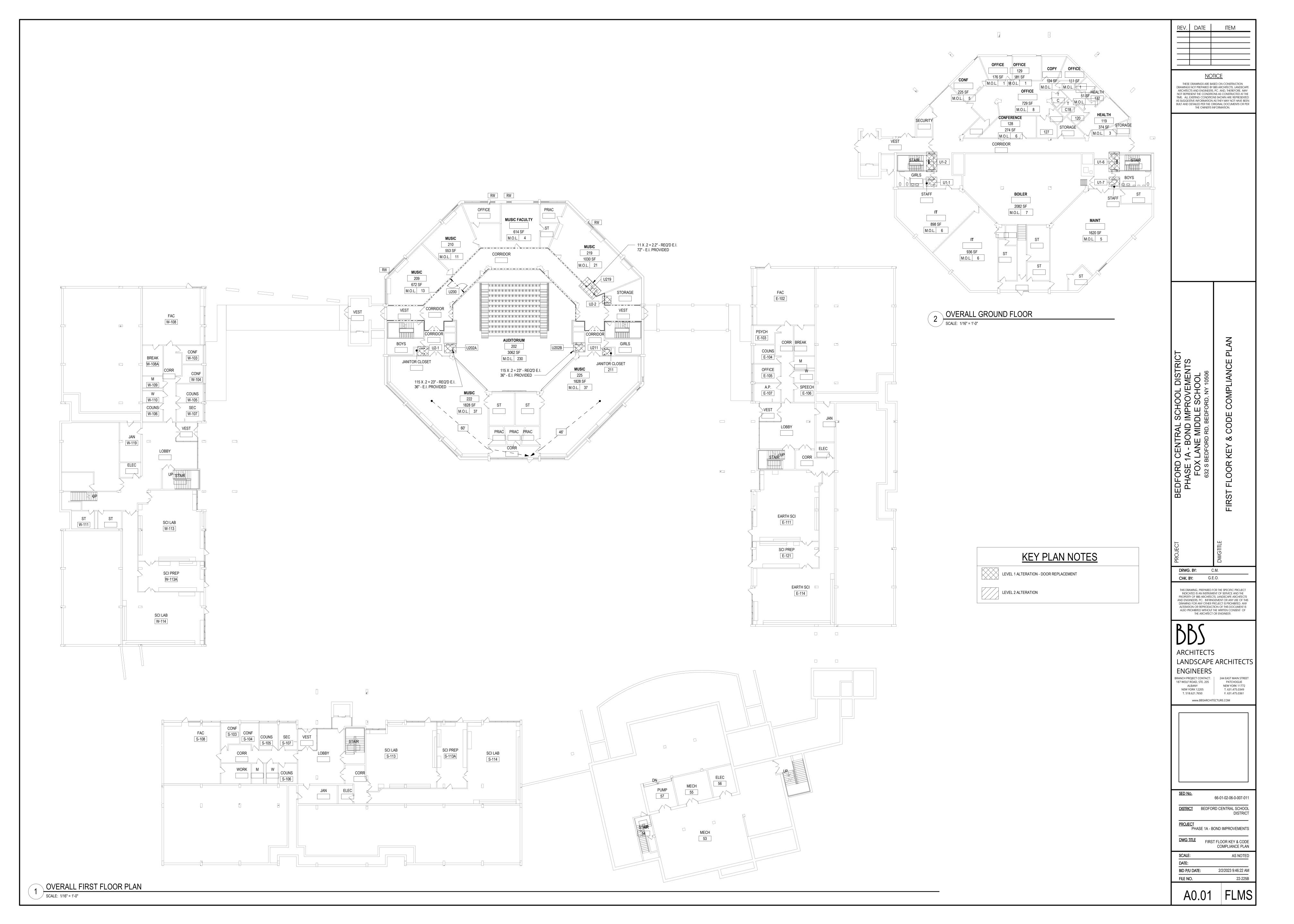
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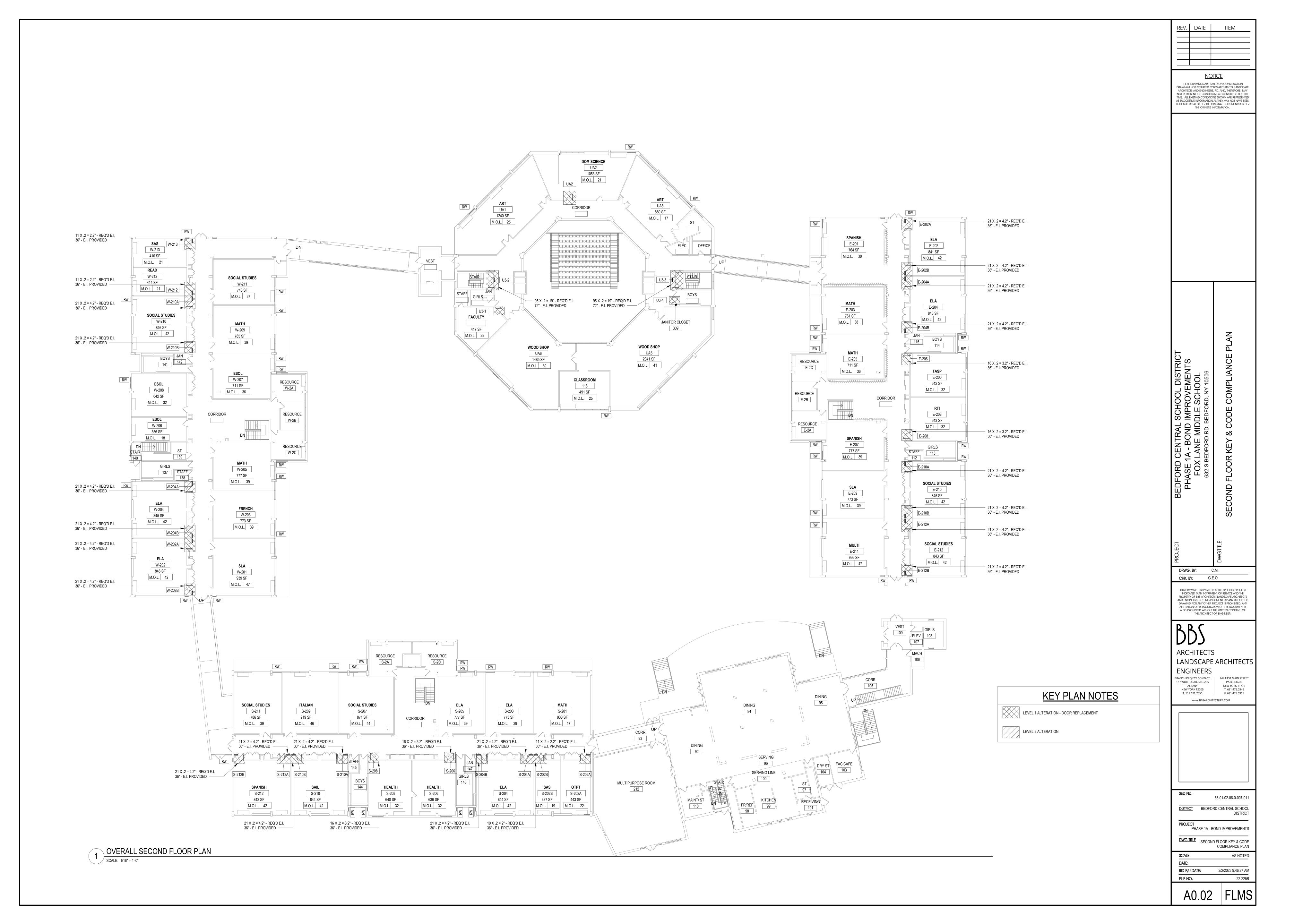
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT PH/	ASE 1A - BOND IMPROVEMENTS
DWG TITLE	ELECTRICAL DETAILS
SCALE:	AS NOTED
DATE:	2/2/2023

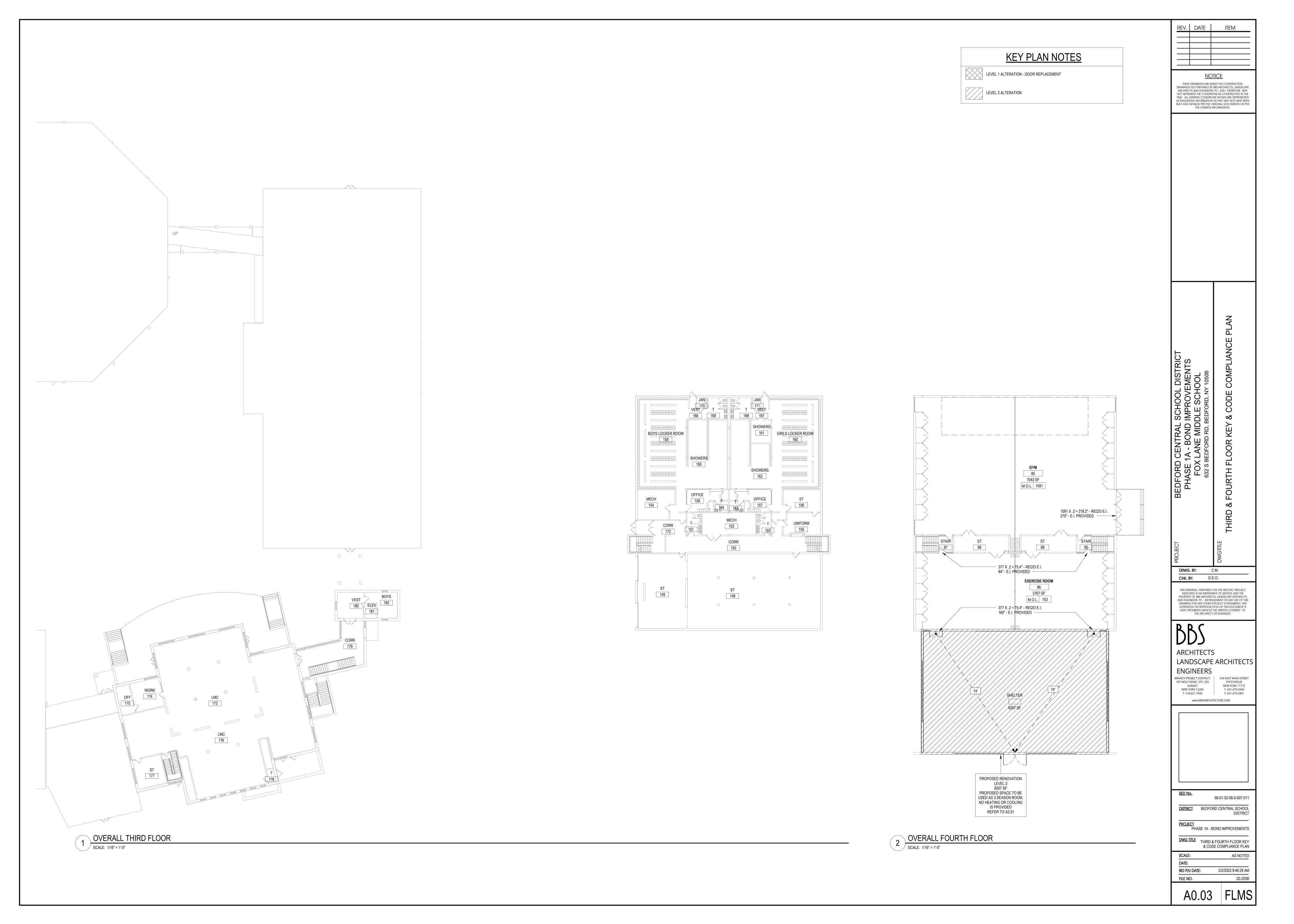
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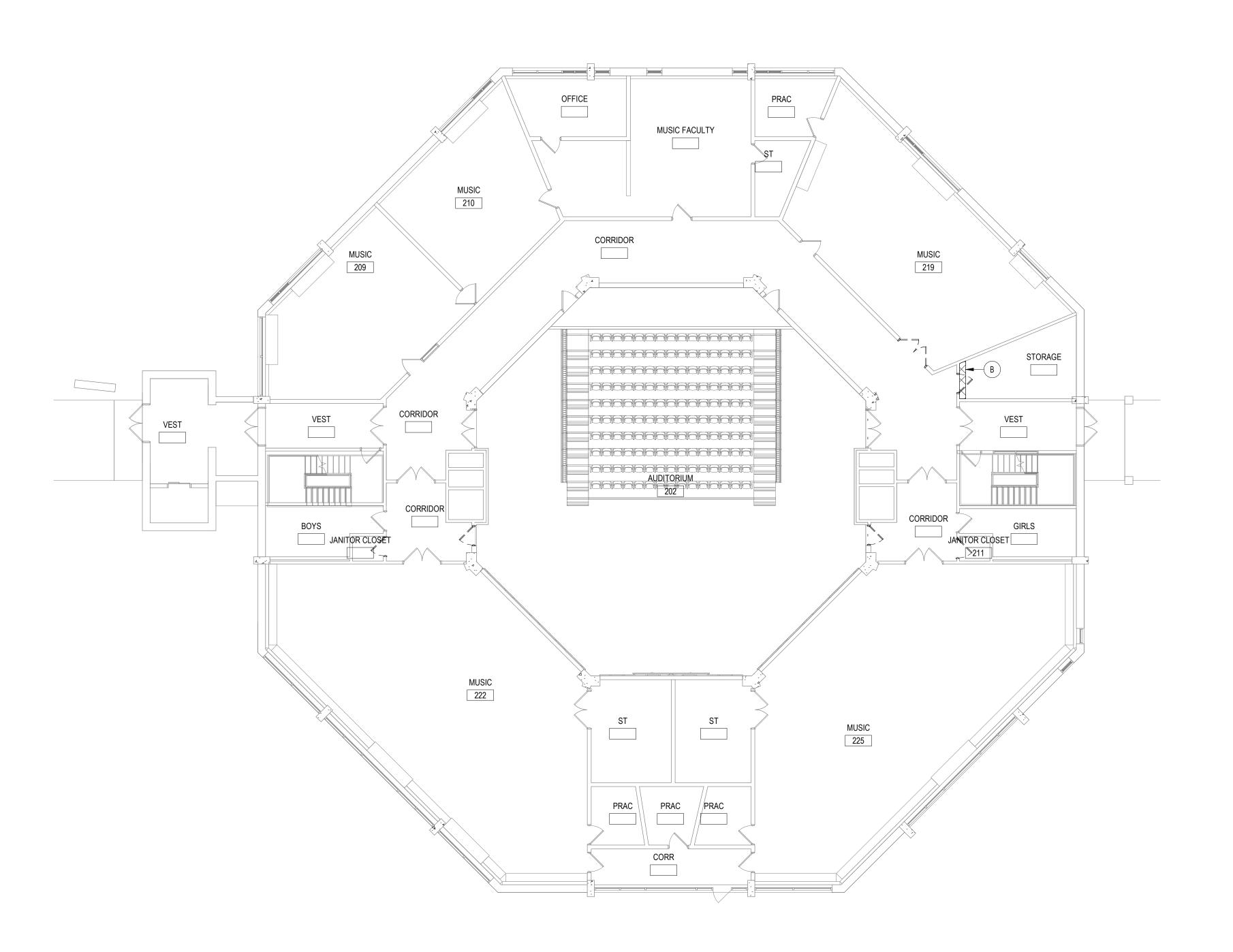
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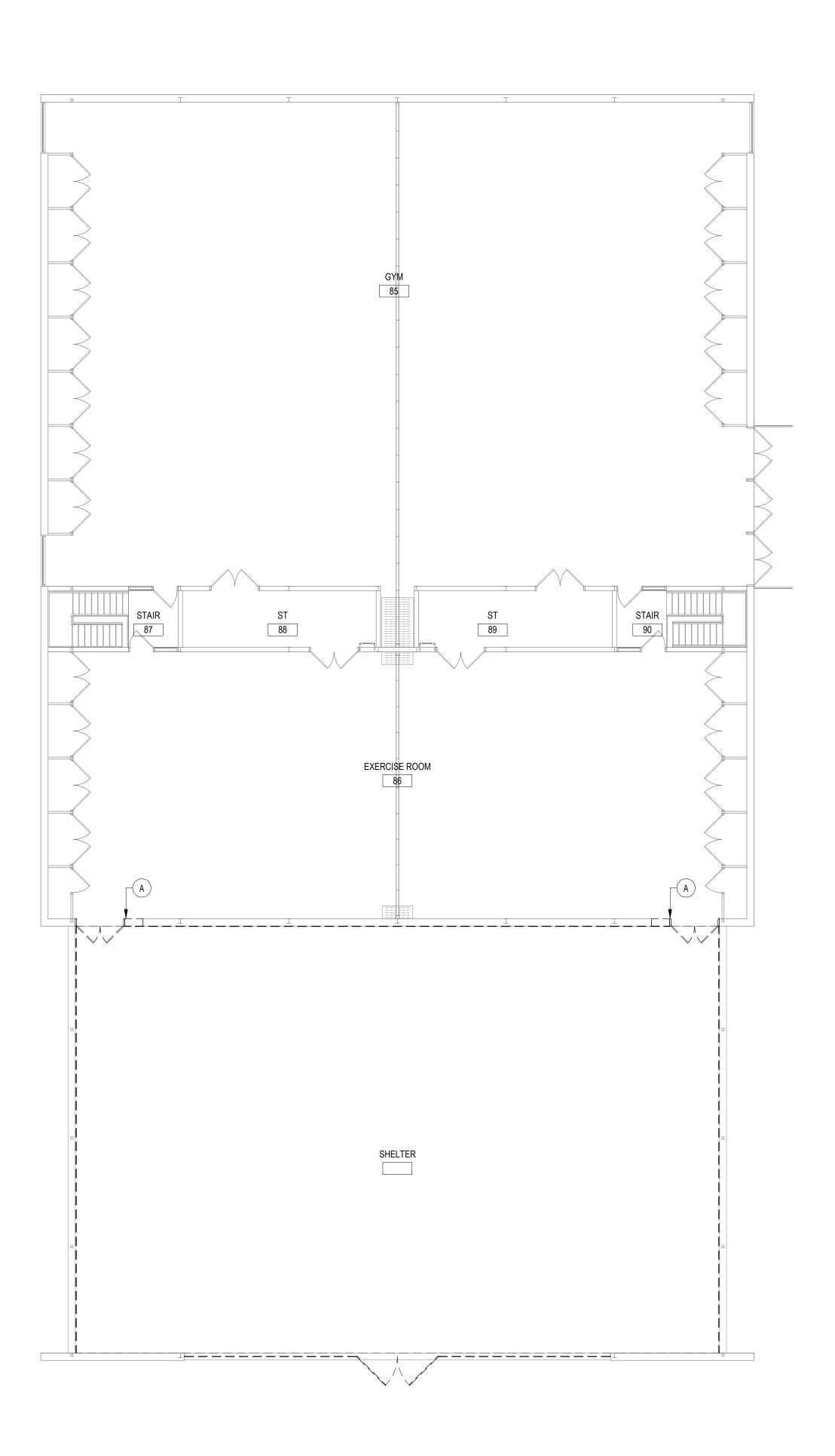






ABATEMENT PLAN - FIRST FLOOR CENTRAL HOUSE

SCALE: 3/32" = 1'-0"



ABATEMENT PLAN - GYMNASIUM

GENERAL ABATEMENT NOTES

- ALL LEAD, ASBESTOS AND/OR PCB REMOVAL BY G.C. THE CONTRACTOR SHALL PERFORM A SITE INSPECTION PRIOR TO SUBMITTING A BID TO REVIEW AND QUANTIFY ALL ASBESTOS, LEAD and/or PCB CONTAINING CONSTRUCTION MATERIALS TO BE REMOVED OR AFFECTED BY THE PROPOSED SCOPE OF WORK.
- 2. REFER TO ASBESTOS, LEAD AND PCB CONSTRUCTION NOTES THIS DRAWING FOR ADDITIONAL INFORMATION.
- 3. REFER TO SPECIFICATIONS INFORMATION TO BIDDERS FOR LEAD / ASBESTOS INSPECTION AND TESTING REPORTS FOR ADDITIONAL INFORMATION.
- 4. EACH CONTRACTOR PERFORMING WORK WITHIN OR ADJACENT TO ASBESTOS CONTAINING CONSTRUCTION MATERIALS SHALL EXERCISE EXTREME CAUTION TO NOT DAMAGE OR DISTURB EXISTING MATERIALS SHALL EXERCISE EXTREME CAUTION TO TO DAMAGE OR DISTURB EXISTING MATERIALS TO REMAIN. EACH CONTRACTOR SHALL BE / OBTAIN OSHA ASBESTOS TRAINING CERTIFIED TO PERFORM SPECIFIED WORK IN OR ADJACENT TO CONTAMINATED SPECIFICATIONS. EACH CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSABLE CLOTHING AND/OR MASKS IF REQUIRED

ASBESTOS, LEAD, AND PCB NOTES

- 1. ALL CONTRACTORS SHALL BE ADVISED THAT THE SCHOOL DISTRICT HAS SOLICITED AN INDEPENDENT TESTING COMPANY TO INSPECT AND TEST ALL AREAS OF THE EXISTING BUILDING WHICH ARE SCHEDULED TO BE DISTURBED DURING CONSTRUCTION FOR THE PRESENCE OF ASBESTOS, LEAD AND /OR PCB CONTAINING CONSTRUCTION MATERIALS.
- 2. RESULTS OF THE INSPECTIONS AND TESTING INDICATE THAT THE EXISTING BUILDING HAS TESTED POSITIVE FOR THE PRESENCE OF ASBESTOS, LEAD AND/OR PCB CONTAINING CONSTRUCTION MATERIALS. REFER TO SPECIFICATIONS FOR DESCRIPTION OF LOCATION,

MATERIALS AND SAMPLE NUMBERS.

ALL DISTURBANCE, REMOVAL OR DEMOLITION WORK TO THESE IDENTIFIED AREAS MUST BE PERFORMED IN CONFORMANCE WITH THE GUIDELINES AS OUTLINED IN THE PROJECT MANUAL AND APPLICABLE LOCAL, STATE AND/OR FEDERAL REGULATIONS

FLUORESCENT BULB NOTES

ALL EXISTING FLUORESCENT BULBS TO BE REMOVED SHALL BE CONSIDERED HAZARDOUS WASTE AND SHOULD BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) & UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) RULES, REGULATIONS & GUIDELINES.

ASBESTOS KEY NOTES $\left(f{A} ight)$ AREAS INDICATED: ASBESTOS CONTAINING DOOR FRAME TAR.

(B) AREAS INDICATED: ASBESTOS CONTAINING FLOOR (APPROX 6 SQFT)

REFER TO PRE CONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT ASBESTOS CONTAINING MATERIALS (INFORMATION AVAILABLE TO BIDDERS) FOR ASSUMED ASBESTOS CONTAINING CONSTRUCTION MATERIALS NOT IDENTIFIED BY KEYNOTES WHICH MAYBE SHOWN AS DEMOLITION OR POTENTIALLY DISTURBED AS A RESULT OF THE PROPOSED RENOVATIONS.

PRE-ABATEMENT WORK NOTES: THE CONTRACTOR SHALL DETERMINE EXACT FINAL LOCATIONS OF PERSONAL AND WASTE

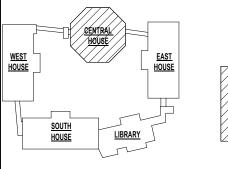
DECONTAMINATION ENCLOSURES, PICK UP AREA FOR REFUSE AND ASSESTOS DEBRIS. THESE LOCATIONS OF PERSONAL AIM WAS IE DECONTAMINATION ENCLOSURES, PICK UP AREA FOR REFUSE AND ASSESTOS DEBRIS. THESE LOCATIONS SHALL BE REVIEWED AND PROPERLY APPROVED BY THE DISTRICT PRIOR TO THE COMMENCEMENT OF WORK. THIS CONTRACTOR SHALL ESTABLISH, LABEL, AND MAINTAIN PROPER EXITS AND WAYS OF DEPARTURE WITHIN EACH WORK AREA FOR NORMAL AND EMERGENCY USE BY WORKERS DURING ALL ABATEMENT.

POST-ABATEMENT WORK NOTES: THE CONTRACTOR SHALL, UPON COMPLETION OF REMOVALS, PROVIDE WRITTEN

THE CONTRACTOR SHALL PROVIDE RECORDS OF ALL HAZARDOUS MATERIALS REMOVED FROM THE SITE

REV. DATE

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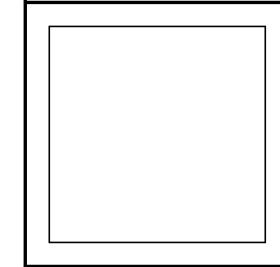
KEY PLAN

NO SCALE √

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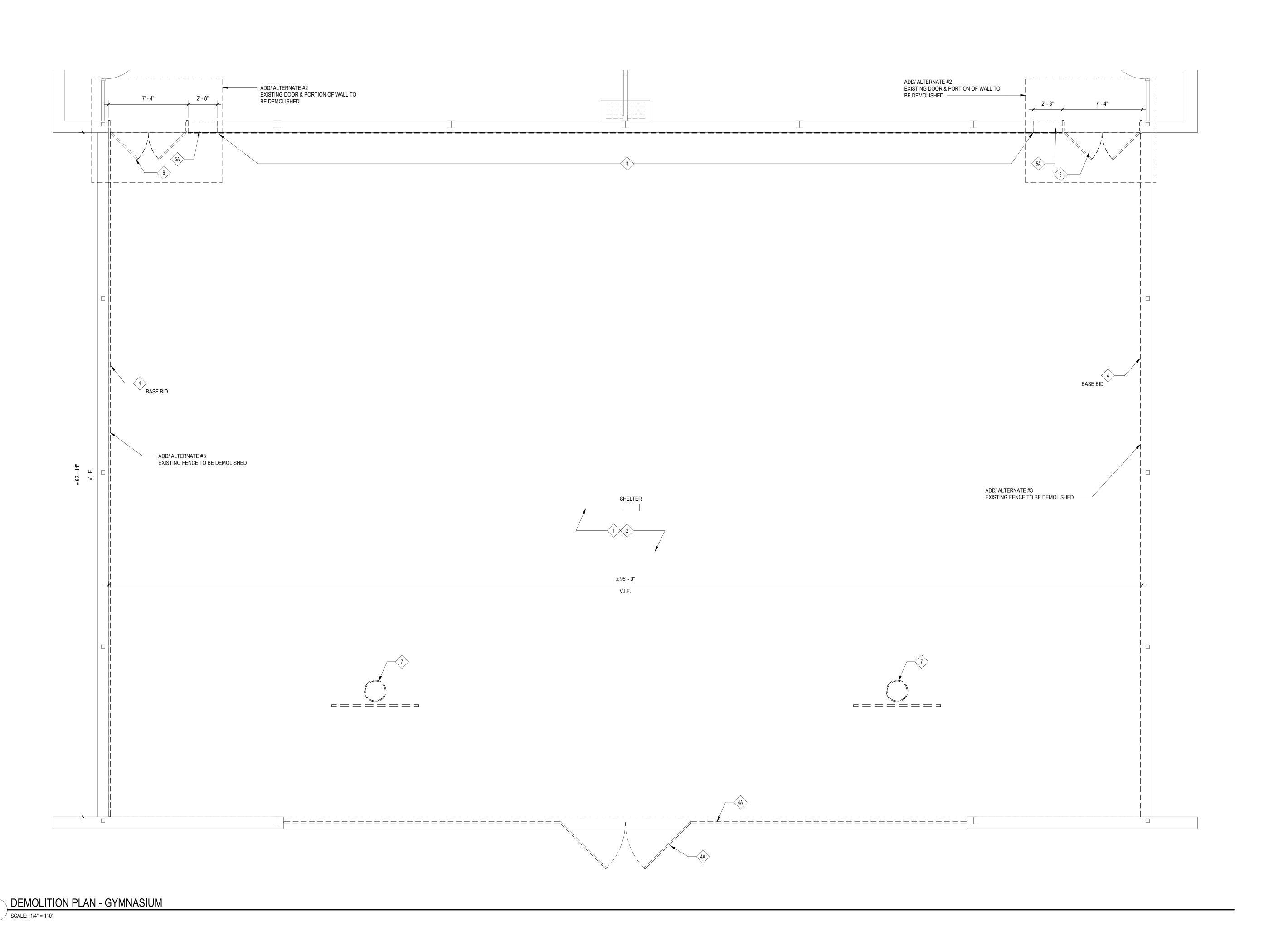


66-01-02-06-0-007-011 DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT
PHASE 1A - BOND IMPROVEMENTS DWG TITLE ABATEMENT PLANS

 SCALE:
 AS NOTED

 DATE:
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GENERAL REMOVAL NOTES:

1. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL, UNLESS NOTED OTHERWISE. MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL DISCONNECTS. G.C. TO COORDINATE DEMOLITION WITH M.C., P.C. AND E.C. REFER TO M.E.P. SERIES DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND DEMOLITION SCOPE BY GENERAL CONTRACTOR NOT SHOWN THIS DWG. TYPICAL FOR ALL AREAS OF INTERIOR DEMOLITION AND/OR RECONSTRUCTION.

2. IT SHALL BE NOTED THAT G.C. SHALL BE RESPONSIBLE TO OPEN UP ALL WALLS (CMU OR FRAME) AND ALL FLOORS (CONCRETE) AS MAY BE REQUIRED FOR THE P.C. TO PERFORM THEIR WORK. THE G.C. SHALL BE RESPONSIBLE TO TEMPORARILY SHORE-UP THE WALLS AND CLOSE UP ALL WALLS AND FLOORS IN SIZE/COURSE THICKNESS AND TYPES TO MATCH EXIST.

3. NOTED CASEWORK AND FURNITURE REMOVALS MAY BE BASE CABINETS, COUNTERS, WALL

CABINETS, SHELVING, BUILT IN CASEWORK, INSTRUMENT STORAGE CABINETS OR APPLIANCES. OWNER TO REMOVE ALL LOOSE FURNISHINGS AND STORED MATERIALS PRIOR TO START OF WORK. G.C. SHALL REMOVE ALL V.A.T., MASTIC AND WALL BASE, AND/OR LEAD CONTAINING CONSTRUCTION MATERIALS. REFER TO ASBESTOS/LEAD ABATEMENT PLAN AND INSPECTION/TEST RESULTS FOR ADDITIONAL INFORMATION.

ALL REMOVALS OF EXISTING FIXTURES WHICH ARE AFFIXED TO V.A.T. SHALL BE TREATED AS AN ASBESTOS ABATEMENT ITEM AND SHALL CONFORM TO REMOVAL PROCEDURES AND REQUIREMENTS.

6. G.C. SHALL SAWCUT WALLS, FLOORS, ROOF, ETC. UNLESS OTHERWISE NOTED. REFER TO M.E.P. DRAWINGS FOR LOCATIONS, DESCRIPTIONS AND RESPONSIBILITIES. 7. G.C. SHALL PATCH, REPLACE, OR REPAIR DAMAGE CAUSED TO EXIST. FLOOR, WALLS, ROOF, ETC. SHOWN TO REMAIN AS A RESULT OF DEMOLITION TO PRIOR CONDITION OR MATCH ADJACENT NEW CONSTRUCTION.

8. G.C. SHALL VERIFY ALL REMOVALS W/ OWNERS REPRESENTATIVE/OWNER, AND M.C., P.C., OR E.C. PRIOR TO COMMENCEMENT. 9. NOTED FLOORING REMOVALS MAY BE V.C.T., CARPET OR TERRAZZO. NOTED CEILING REMOVALS MAY BE CONCEALED SPLINE SYSTEM, ACOUSTICAL TILE/GRID SYSTEM, SOFFITS AND FRAMING, OR PLASTER W. SUPPORT FRAMING. NOTED WALL REMOVALS MAY BE GYP. BD. W/ FRAMING, CMU, CMU W/ APPLIED FINISHES, BRICK, OPERABLE PARTITIONS W/ TRACK/

SUPPORTS AND SHALL INCLUDE ALL DOORS AND FRAMES WHERE SHOWN. UNLESS
OTHERWISE NOTED, ALL EXISTING WALL MOUNTED CHALK BD., WHITE BD. OR TACK BD. AND
MASTIC/ADHESIVE SHALL BE REMOVED.

10. IN ALL AREAS OF FLOORING REMOVALS - THE G.C. SHALL BE RESPONSIBLE TO COMPLETELY FLASH PATCH THE ENTIRE FLOOR SURFACE. IN PREPARATION OF INSTALLATION OF NEW FINISHED FLOORING. G.C. SHALL FLASH PATCH THE SURFACE WITH "ARDEX" SD-F FEATHER FINISH OR APPROVED EQUAL. FLOOR SURFACES SHALL BE SMOOTH, FREE OF DEPRESSION, BUMPS, UNEVENNESS - LEVEL TO A TOLERANCE OF A MINIMUM OF +/- 1/8" AND OR AS SPECIFIED BY THE FLOORING MANUFACTURERS FLOORING INSTALLATION SPECIFICATIONS. THE G.C. SHALL BE RESPONSIBLE TO MAKE ANY NECESSARY CORRECTIONS TO THE FLOOR SUBSTRATE AS MAY BE DEEMED NECESSARY BY THE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER.

DEMOLITION LEGEND:

EXISTING CONSTRUCTION TO BE REMOVED (PATCH ALL SURFACES) ROOM NAME AND NUMBER

DEMOLITION KEY NOTES: (COORDINATE WITH ASBESTOS, LEAD AND PCB ABATEMENT TESTING REPORTS, ATTACHED TO THE PROJECT MANUAL, PRIOR TO COMMENCE ANY REMOVALS)

REMOVE EXISTING ASPHALT PAVING IN IT'S ENTIRETY - PREP SUBBASE TO ACCEPT ASPHALT BASE & NEW COATING.

SCRAPE EXISTING WOOD CEILING, AND PREP FOR NEW FINISH REMOVE EXISTING PLYWOOD BOARDS ON WALL, AND PREP SUBSTRATE FOR NEW

4 EXISTING FENCE TO BE SALVAGED AND REUSED.

4A EXISTING FENCE & GATE TO BE DEMOLISHED

REMOVE EXISTING SELECTED WALL IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE REMAINING WALL TO ACCEPT NEW FINISHES - COORDINATE W/MEP CONTRACTORS FOR

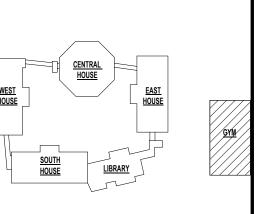
REMOVE EXISTING PORTION OF SELECTED WALL AS REQUIRED FOR NEW DOOR OR 5A WINDOW AND APPLICABLE FRAME SYSTEM - PATCH/REPAIR/RESTORE REMAINING WALL TO ACCEPT NEW FINISHES - COORDINATE W/MEP CONTRACTORS FOR DISCONNECTS

6 REMOVE EXISTING DOOR & FRAMES IN THEIR ENTIRETY - PATCH/REPAIR/RESTORE WALL TO ACCEPT NEW FINISHES.

REMOVE EXISTING BASKETBALL BLACKSTOP IN ITS ENTIRITY - PATCH/REPAIR/RESTORE CEILING & STRUCTURE TO ACCEPT NEW FINISHES.

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KEY PLAN NO SCALE √

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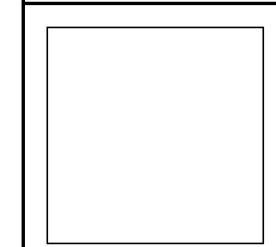
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ARCHITECTS LANDSCAPE ARCHITECTS

CHK. BY: G.E.O.

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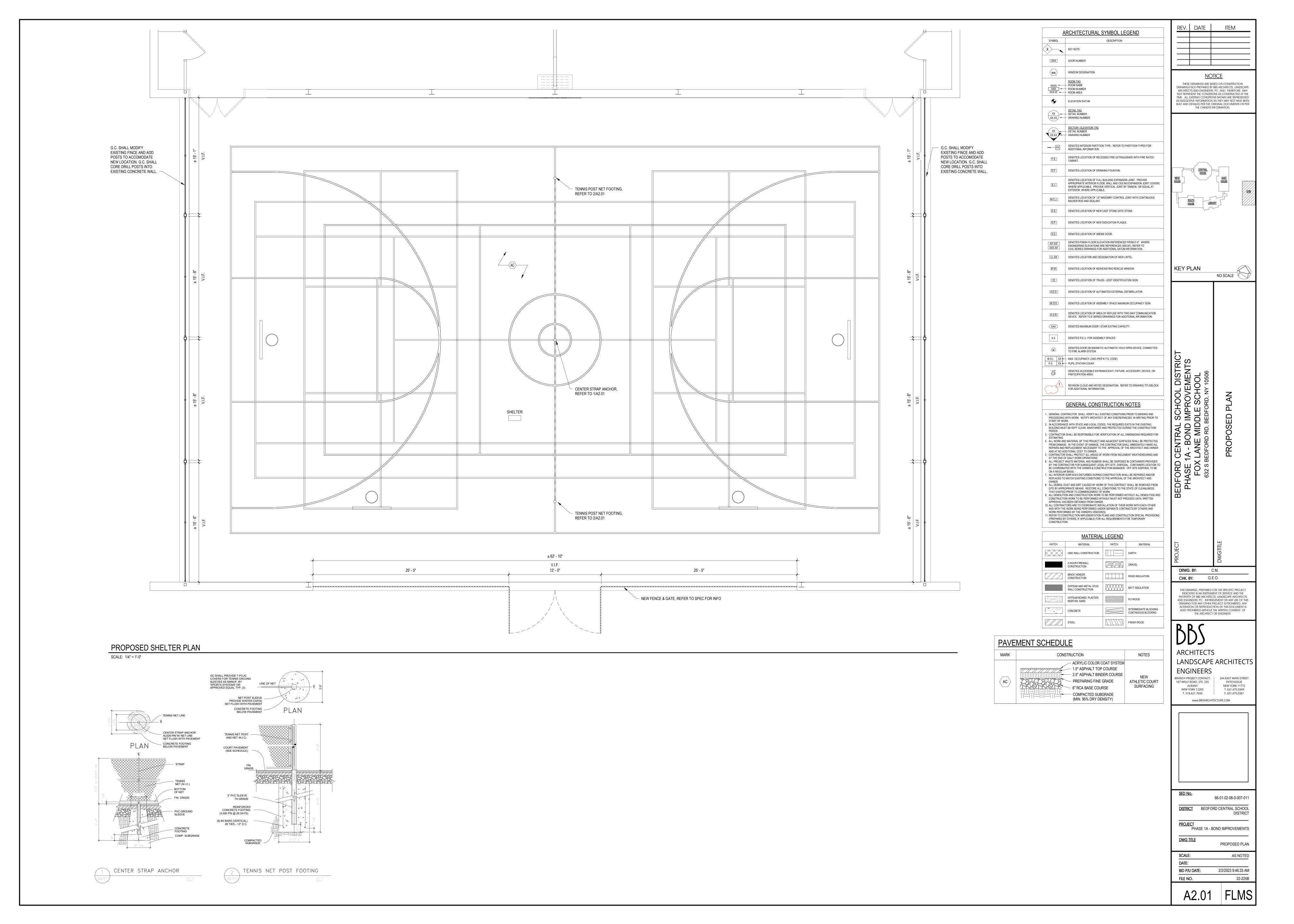


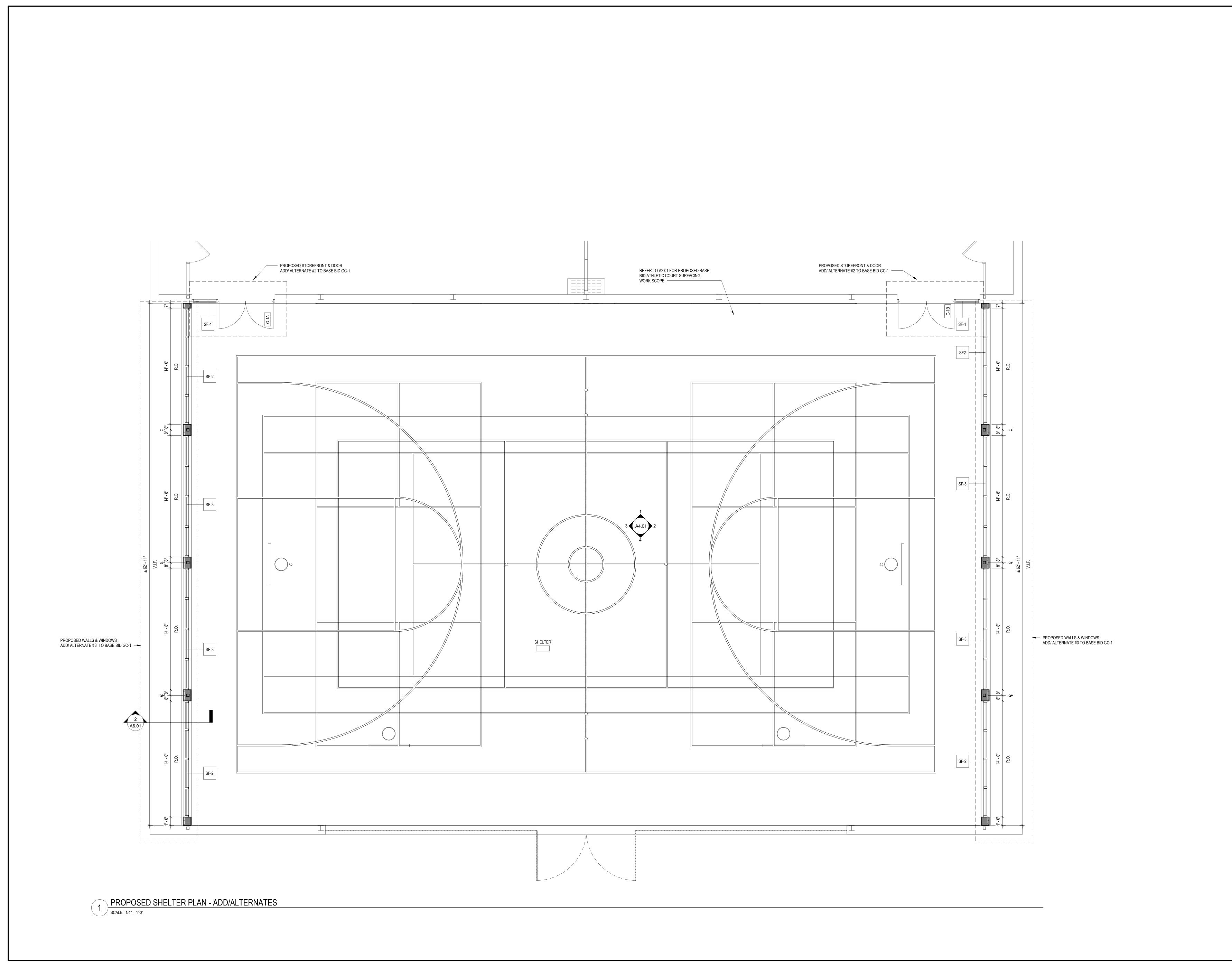
66-01-02-06-0-007-011 DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT
PHASE 1A - BOND IMPROVEMENTS DWG TITLE DEMOLITION PLAN

 SCALE:
 AS NOTED

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DRWG. BY: C.M.

CHK. BY: G.E.O.

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66-01-02-06-0-007-011

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

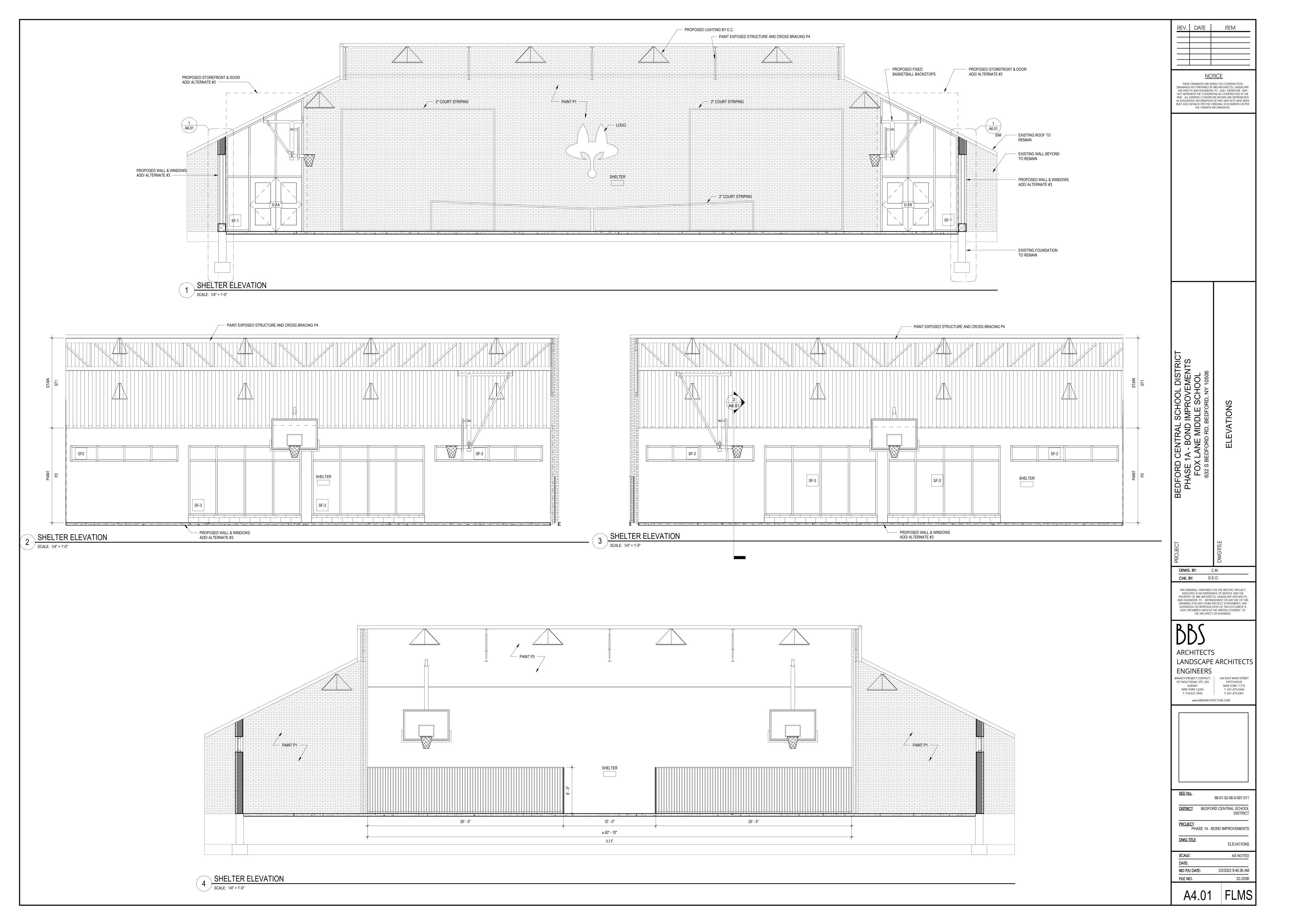
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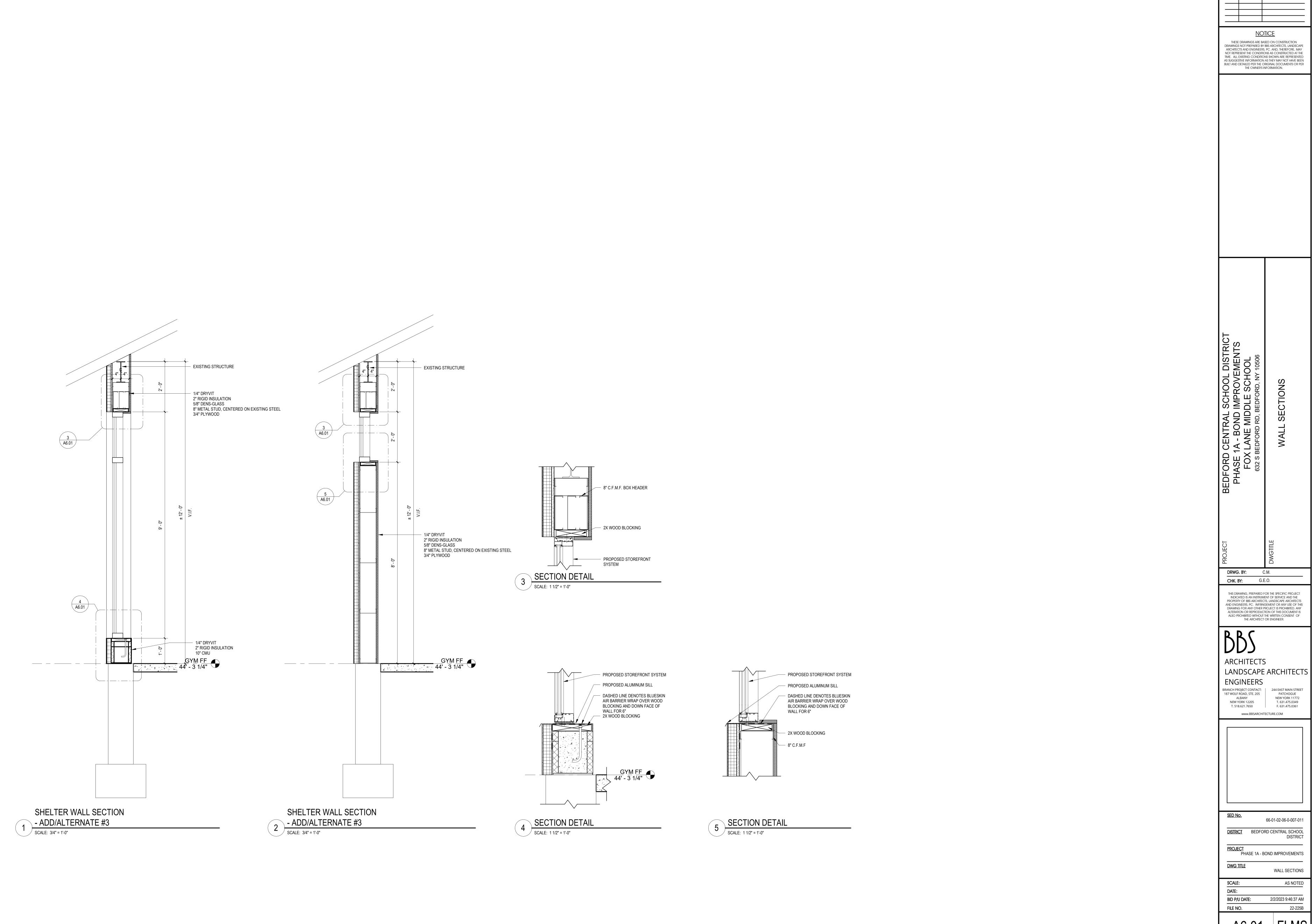
PROJECT
PHASE 1A - BOND IMPROVEMENTS

DWG TITLE
PROPOSED PLAN - ADD/ALTERNATES

SCALE:
AS NOTED
DATE:
BID P/U DATE: 2/2/2023 9:46:33 AM
FILE NO. 22-225B

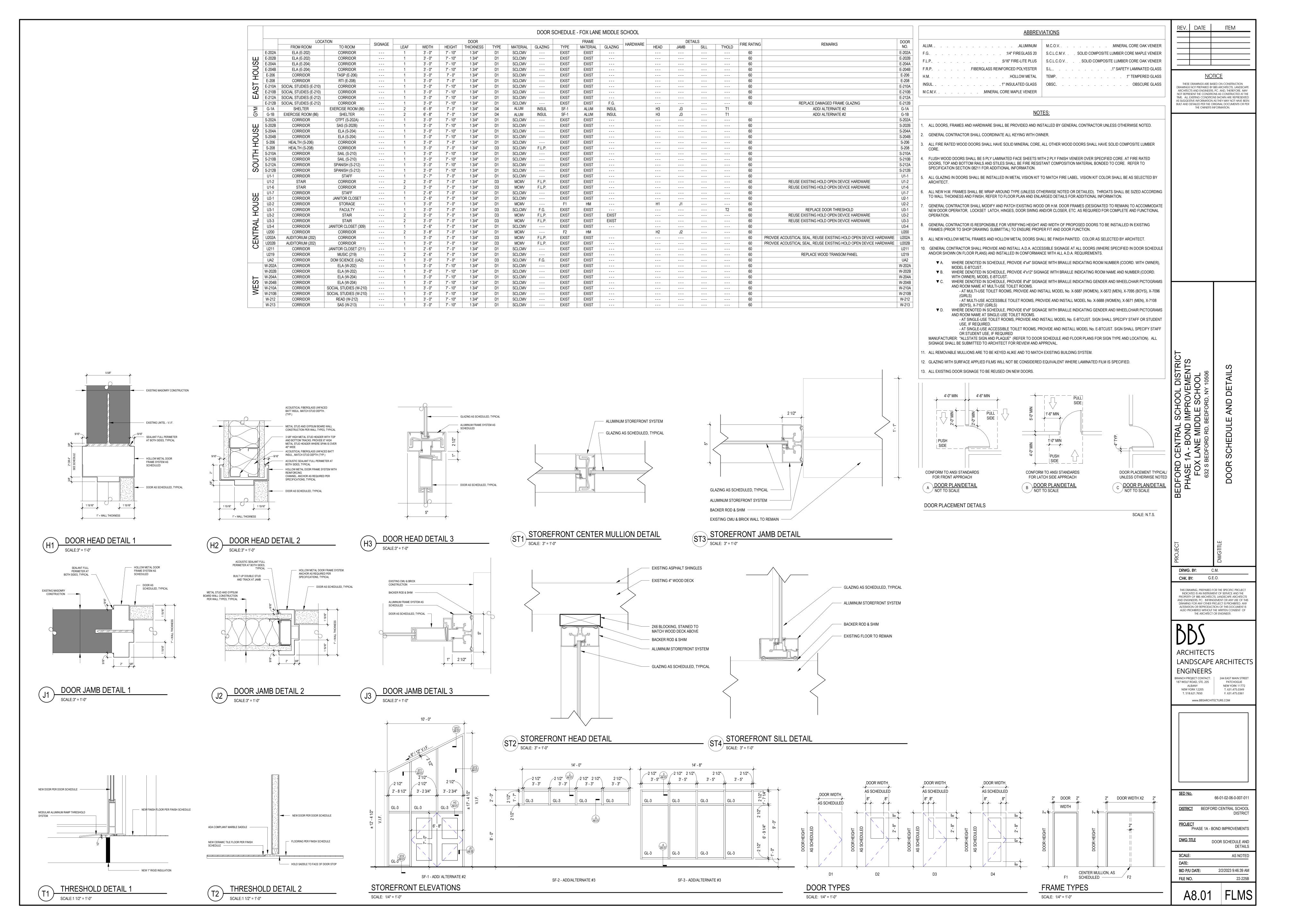
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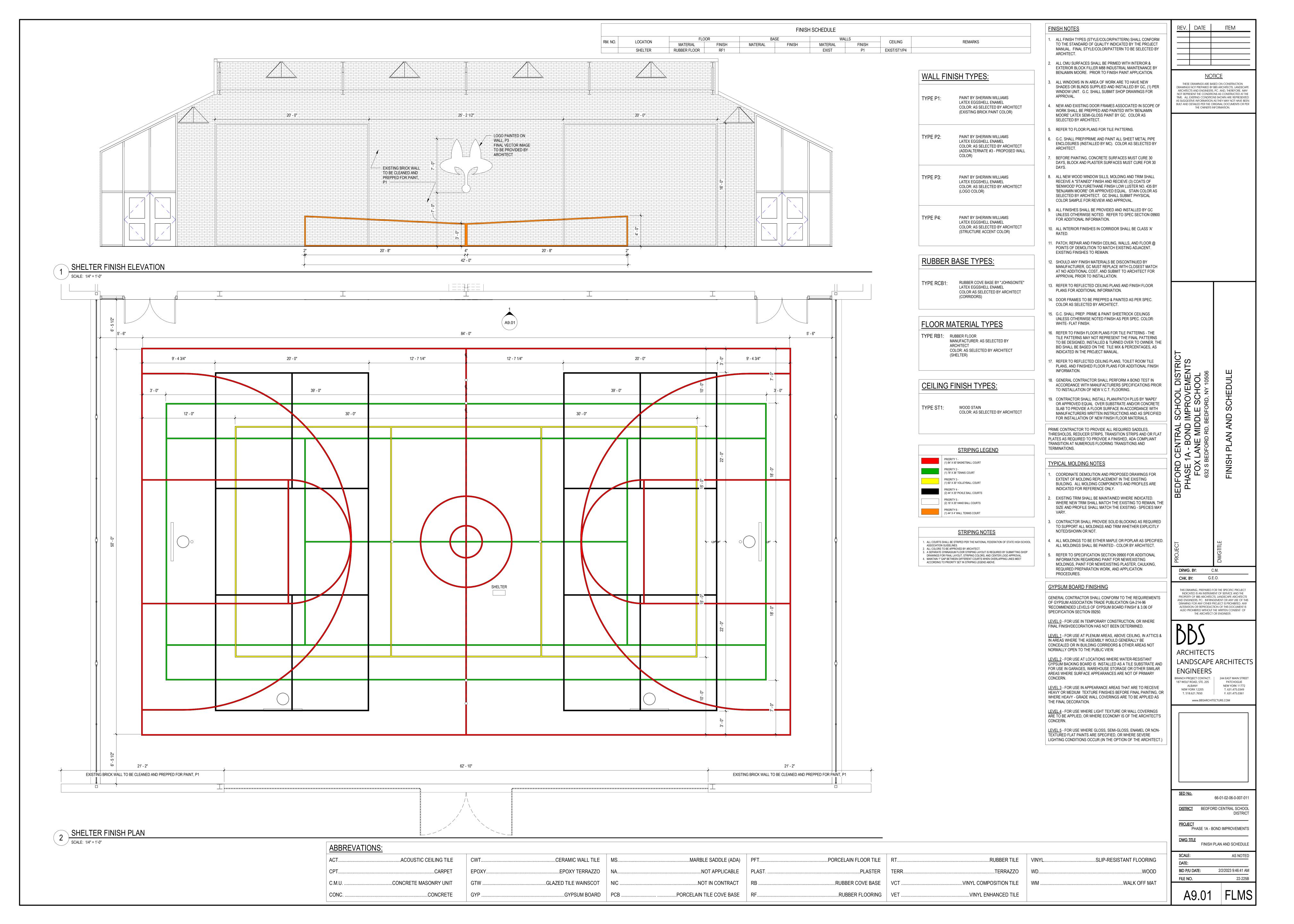


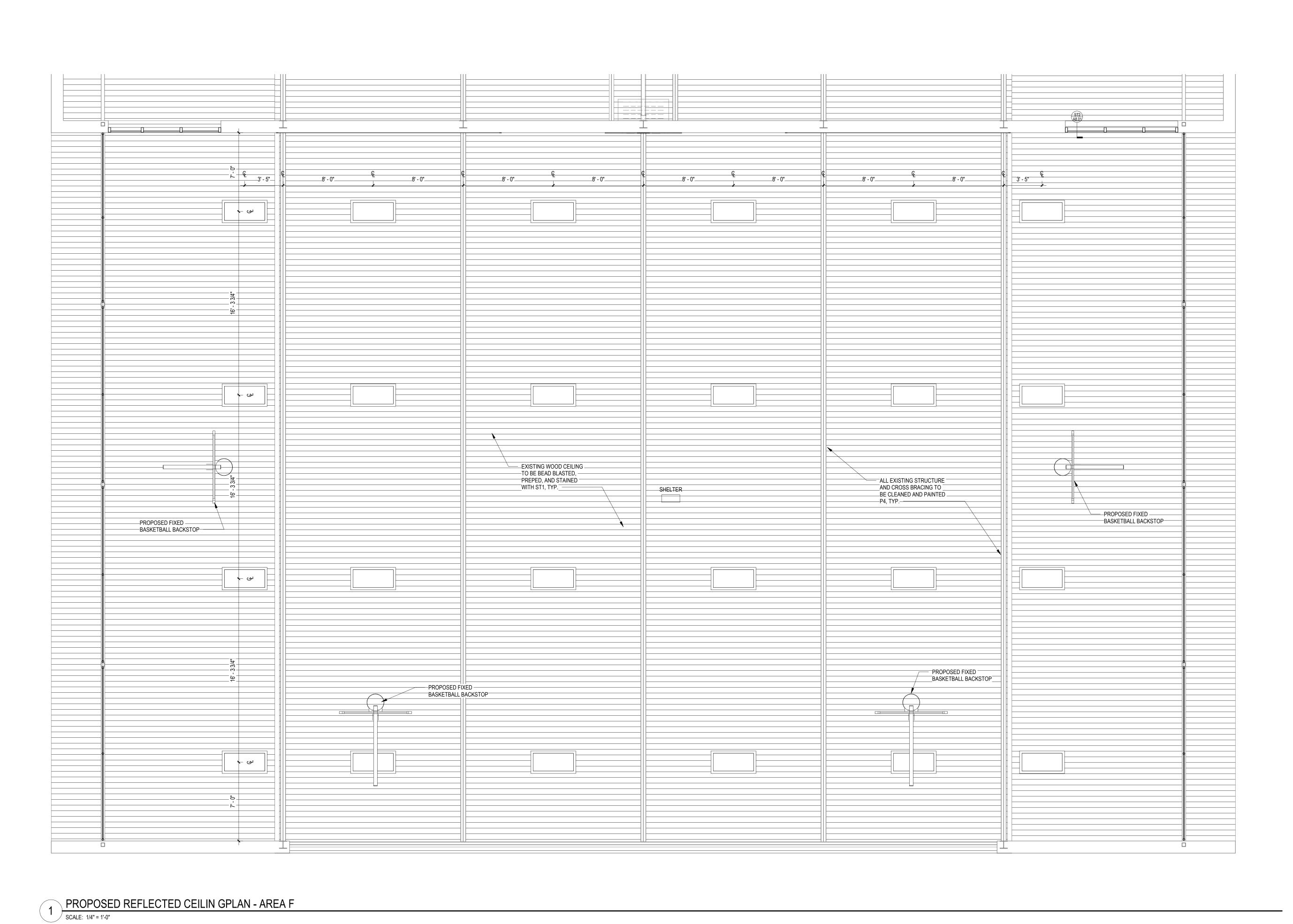


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SYMBOL LEGEND

ROOM TAG, CEILING TILE TYPE and FINISH CEILING ELEVATION (ABOVE FINISH FLOOR) x'-x"/ATx

LIGHT FIXTURE. REFER TO ELECTRICAL DWGS. FOR ADDITIONAL INFO. (E.C.)

TYPICAL REFLECTED CEILING NOTES

- 1. ALL CEILING TILES TO BE AT-1, U.O.N. REFER TO FINISH SCHEDULE FOR ADD'L INFO.
- 2. ALL CEILING GRID TO BE 15/16" PRELUDE BY "ARMSTRONG", U.O.N.
- 3. CEILING PLANS MAY NOT INDICATE ALL MECHANICAL AND/OR ELECTRICAL CEILING ITEMS, REFER TO ELECTRICAL & MECHANICAL DRAWINGS FOR ADD'L INFO.
- 4. ALL FIXTURES SHALL BE CENTERED WITHIN THE GRID, U.O.N.

OTHERWISE REQUIRED.

- 5. SUPPORT OF ALL ARCHITECTURAL COMPONENTS (I,E, HUNG CEILING SYSTEMS, GRIDS, ETC.) SHALL BE INSTALLED TO WITHSTAND SEISMIC LOADS IN ACCORDANCE WITH THE IBC SECTION 1621, FOR SEISMIC DESIGN CATEGORY 'B' AND IMPORTANCE FACTOR 1.0. BASED UPON THE ABOVE, NO SPECIFIC SEISMIC RESTRAINTS ARE REQUIRED.
- 6. ALL ACOUSTICAL HUNG CEILING GRID SYSTEMS SHALL BE INSTALLED IN CONFORMANCE WITH ASTM, C636 "STANDARD PRACTICE FOR INSTALLATION OF METAL CEILING SUSPENSION SYSTEMS FOR ACOUSTICAL TILE AND LAY-IN PANELS" REQUIREMENTS.
- 7. ALL LIGHTING FIXTURES REMAIN EXCEPT WHERE NOTED. ELECTRICAL CONTRACTOR TO DE-ENERGIZE DURING DEMOLITION AND INSTALLATION OF NEW CEILING. ELECTRICAL CONTRACTOR TO RE-INSTALL ALL OTHER ELECTRICAL DEVICES (SPEAKERS, SMOKE DETECTORS, FIRE ALARM STROBES, ETC.) WHETHER NOTED ON PLAN OR NOT. REFER TO ELECTRICAL DRAWINGS FOR ADD'L INFO.
- 8. CEILING GRID SHALL BE ARRANGED TO BE SPACED EQUALLY IN EACH DIRECTION W/ NO TILE LESS THAN 6" UNLESS
- 9. PROVIDE CEILING EXPANSION JOINT AT ALL NEW TO EXISTING INTERACTIONS AND WHERE INDICATED ON PLAN. REFER TO WALL SECTIONS AND SPECIFICATIONS.
- 10. ALL AREAS NOTED AS 'OPEN' AND/OR 'NO CEILING (CLG)' SHALL BE PAINTED. (INCLUDING DECK, STRUCTURE, DUCTWORK, ETC.)

REV. DATE

THESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS NOT PREPARED BY BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, PC. AND, THEREFORE, MAY NOT REPRESENT THE CONDITIONS AS CONSTRUCTED AT THE

TIME. ALL EXISTING CONDITIONS AS CONSTRUCTED AT THE TIME. ALL EXISTING CONDITIONS SHOWN ARE REPRESENTED AS SUGGESTIVE INFORMATION AS THEY MAY NOT HAVE BEEN BUILT AND DETAILED PER THE ORIGINAL DOCUMENTS OR PER THE OWNER'S INFORMATION.

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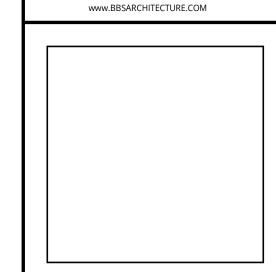
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66-01-02-06-0-007-011 DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT
PHASE 1A - BOND IMPROVEMENTS REFLECTED CEILING PLAN

SCALE:

DATE:

BID P/U DATE: AS NOTED 2/2/2023 9:46:42 AM

ELECTRICAL CONSTRUCTION NOTES (NOT ALL APPLY):

DEFINED IN SECTION 1700 OF THE PROJECT MANUAL.

SPECIFICALLY DISALLOWED UNLESS OTHERWISE NOTED.

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEC, APPLICABLE LOCAL CODES, STATE CODES, SCHOOL WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEER'S SPECIFICATIONS.
 THE VOLTAGE CHARACTERISTIC OF EXISTING BUILDING IS 208Y/120V, 3-PASE, 4-WIRE. THE VOLTAGE CHARACTERISTIC OF THE PROPOSED ADDITION SHALL BE 480/277V, 3-PHASE 4-WIRE WITH 208/120V DERIVED FROM STEP DOWN TRANSFORMERS., ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS.
- PROPOSED ADDITION SHALL BE 480/277V, 3-PHASE 4-WIRE WITH 208/120V DERIVED FROM STEP DOWN TRANSFORMERS., ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS.

 3. THE DRAWINGS SHOW SCHEMATICALLY, THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION. ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL
- VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED.

 4. DIVISION 16 CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS/SPECIFICATIONS AND ACTUAL FIELD
- CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEERS ATTENTION BEFORE BID SUBMITTAL.

 5. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL LABOR SERVICE MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL AUTHORITIES HAVING
- JURISDICTION.

 6. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL
- MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED.

 7. DIVISION 16 CONTRACTOR SHALL PAY ANY FEES APPLICABLE TO ELECTRICAL WORK, SUCH AS, BUT NOT LIMITED TO, THE POWER COMPANY, TELEPHONE COMPANY, CATV, CERTIFIED ELECTRICAL INSPECTORS, ALARM AND FIRE PROTECTION COMPANIES.
- 8. THE DIVISION 16 CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK.
 9. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE SCHOOL DISTRICT
- BUILDINGS AND GROUNDS DEPARTMENT.

 10. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN INSPECTION CERTIFICATE AND PAY ASSOCIATED FEE. SUBMIT A PHOTOCOPY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION.

 11. DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS
- 12. A COMPLETE SYSTEM OF WIRING, WITH ALL FEEDERS, MAINS, AND BRANCHES AS SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED FROM THE MAIN DISTRIBUTION BOARD TO THE PANELS OUTLETS, MOTORS, AND APPURTENANCES.
 13. PROVIDE IDENTIFICATION FOR ALL PANEL AND MOTOR FEEDER CABLES IN PULL BOXES AND AT TERMINATIONS. ANY CONDUCTOR VOLTAGES HIGHER THAN 240 VOLTS SHALL BE MARKED ON DEVICES AND JUNCTION BOXES.
- 14. FURNISH AND INSTALL ALL WIRING OF ANY VOLTAGE OR PURPOSE AS SHOWN ON THE DRAWINGS.
 15. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARING COMMON NEUTRALS AMONG BUNDLED CIRCUITS IS
- 16. PULL/JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED OR AS OTHERWISE REQUIRED TO FACILITATE THE PROPER INSTALLATION OF WIRES AND CABLES. CONDUITS MAY BE INCREASED IN SIZE FOR CONSTRUCTION CONVENIENCE.
- 17. FURNISH AND INSTALL ALL DISCONNECT DEVICES AND SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED TO CONFORM WITH REQUIREMENTS.
 18. FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE
- FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION.
 DIVISION 16 CONTRACTOR SHALL PROVIDE TO SCHOOL 5 PERCENT SPARE LAMPS (MINIMUM QUANTITY 1) OF EACH TYPE SPECIFIED
- WITH NEW FIXTURES.

 20. PROVIDE ALL WIRING, PANEL BOARDS, SWITCHES, FUSES, EQUIPMENT, AND ALL INCIDENTAL MATERIALS REQUIRED TO SUPPLY TEMPORARY AND PERMANENT ELECTRICAL NEEDS FOR THE WORK INVOLVED, ALL IN ACCORDANCE WITH OSHA, LOCAL, STATE AND
- UNDERWRITERS REQUIREMENTS.

 21. ALL WIRING TO BE 1#12+1#12(N)+1#12(G)-3/4"C., OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. RUN BRANCH CIRCUITS IN DROPPED CEILINGS, VOIDS, & CHASES. CONDUITS MAY BE SURFACE MOUNTED IN MECHANICAL SPACES UNLESS OTHERWISE NOTED. CONDUITS IN PUBLIC AREAS SHALL BE CONCEALED IN HUNG CEILINGS, EMBEDDED IN SLAB OR MASONRY WALLS, EXCEPT WHERE SURFACE MOUNTED RACEWAY IS SPECIFIED. ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE.
- 22. ALL CONNECTIONS AND/OR SPLICES SHALL BE MADE ONLY IN ACCESSIBLE JUNCTION BOXES.
 23. ALL COUPLINGS AND CONNECTORS FOR USE WITH EMT SHALL BE COMPRESSION TYPE. SET SCREW TYPE OR INDENT TYPE FITTINGS WILL NOT BE ACCEPTED.
- 24. ALL CONNECTIONS TO CONDUIT RUN UNDERGROUND SHALL BE MADE WATERTIGHT. ALL METALLIC CONDUIT INSTALLED IN EARTH FILL, AS WELL AS UNDERGROUND, SHALL BE PAINTED WITH (2) COATS OF ASPHALTUM PAINT OR EQUAL.

 25. WIRING INSTALLED IN CEILINGS SHALL BE HUNG INDEPENDENT OF CEILING SYSTEM AND SECURELY TIED TO BUILDING STEEL.

 26. ALL LOW VOLTAGE (FIRE ALARM, PA INTERCOM, PHONE, DATA, ETC.) WIRING INSTALLED IN OPEN AREAS SHALL BE IN METALLIC

RACEWAY IN MECHANICAL AREAS, GYMNASIUMS, ART ROOMS, STOREROOMS, ETC., AND IN SURFACE MOUNTED RACEWAY IN PUBLIC

- AREAS. LOW VOLTAGE WIRE INSTALLED IN DROPPED CEILINGS SHALL BE BUNDLED TOGETHER AND SUPPORTED BY BUILDING STEEL.

 LOW VOLTAGE WIRE SHALL NOT BE SUPPORTED WITH BRANCH CIRCUITS OR FEEDER CIRCUITS AND SHALL NOT BE SUPPORTED BY
 CONDUIT, PIPES, ETC.. LOW VOLTAGE WIRING NOT INSTALLED IN CONDUITS, SHALL BE PLENUM RATED.

 27. CONDUITS SHALL BE SECURED IN PLACE AND PROPERLY SUPPORT ALL CONDUITS NOT INSTALLED IN CONCRETE SLAPS OF
- 28. FURNISH AND INSTALL ALL HARDWARE TO PROPERLY SUPPORT ALL CONDUITS NOT INSTALLED IN CONCRETE SLABS OR UNDERGROUND.
 29. ALL CONDUITS OR MC CABLE SHALL BE EQUIPPED WITH AN INSULATING/CHAFE GUARD GROMMET AT WIRE EXIT/ENTRANCE. MC
- CABLE SHALL USE MC STYLE BUSHINGS. BX OR OTHER BUSHINGS ARE SPECIFICALLY DISALLOWED.

 30. WHERE AN EXISTING CONDUIT OR CABLE IS REQUIRED TO BE REMOVED BUT SERVES AND EXISTING PIECE OF EQUIPMENT WHICH IS
 TO REMAIN OPERABLE. THE DIVISION 16 CONTRACTOR SHALL REPOLITE SAID CONDUIT OR CABLE OR PROVIDE A NEW SOURCE OF
- TO REMAIN OPERABLE, THE DIVISION 16 CONTRACTOR SHALL REROUTE SAID CONDUIT OR CABLE OR PROVIDE A NEW SOURCE OF POWER (APPROVED BY ENGINEERING) TO THIS EQUIPMENT AS A PART OF THIS CONTRACT.

 31. ALL PANELS, SWITCHES, DISCONNECT STARTERS, OR OTHER ELECTRIC SYSTEM CONTROLS SHALL BE STENCILED WITH THEIR APPROPRIATE DESIGNATION/FUNCTION. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED BY A PANEL SCHEDULE OR STENCIL ADJACENT
- 32. ALL CIRCUIT BREAKERS POSITIONS IN ALL PANELS ARE SHOWN FOR ESTIMATE PURPOSES ONLY. EC IS RESPONSIBLE FOR LOAD BALANCING.
- 33. ALL DEVICES SHALL BE FASTENED IN PLACE SECURELY. GRID MOUNTING LIGHTING FIXTURES SHALL BE SECURED TO GRID WITH CLIPS LISTED FOR THE PURPOSE OR SUSPENDED FROM STRUCTURE PER NEC.
- 34. WORK WHICH MUST BE DONE IN OCCUPIED AREAS SHALL BE DONE AT SUCH TIMES AS INDICATED IN THE PHASING OF CONSTRUCTION AND AS APPROVED BY THE SCHOOL.
 35. WHERE THE DIVISION 16 CONTRACTOR IS INSTRUCTED TO PROVIDE, INSTALL AND WIRE CIRCUIT BREAKER(S) TO AN EXISTING PANEL AND THAT PANEL DOES NOT HAVE THE ROOM TO INSTALL REQUIRED CIRCUIT BREAKERS, THE DIVISION 16 CONTRACTOR SHALL
- AND THAT PANEL DOES NOT HAVE THE ROOM TO INSTALL REQUIRED CIRCUIT BREAKERS, THE DIVISION 16 CONTRACTOR SHALL REMOVE (3) ADJACENT 1P CIRCUIT BREAKERS AND PROVIDE A 3P, 60A BREAKER IN THEIR PLACE FOR SUB FEED TO A SURFACE MOUNTED 100A,3~,4W,24 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL, EACH WITH REQUIRED CIRCUIT BREAKERS. PROVIDE (3) 1P, AMPERAGE AS BEFORE CIRCUIT BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3#6+1#6(N)+1#10(G)-1"C.

 36. SELECTED RECEPTACLES AS SHOWN ON DRAWINGS MAY BE GFI PROTECTED BY CONNECTING TO GFCI RECEPTACLE FIRST IN
- CIRCUIT. ALL RECEPTACLES THAT ARE PROTECTED FROM AN UPSTREAM GFCI UNIT SHALL BE VISABLY LABELED AS SUCH. GFCI RECEPTACLE SHALL BE SPEC GRADE AND RATED 20A, WITH OPERATING NOTIFICATION INDICATING LIGHT.

 37. ALL DEVICES ADDRESSED BY ADA REGULATIONS SHALL BE INSTALLED AT ADA COMPLIANT HEIGHT AND LOCATIONS.

 38. ALL NEW LIGHTING OR EXISTING LIGHTING HAVING SWITCHING REARRANGEMENT SHALL BE EQUIPPED WITH CODE COMPLIANT
- ENERGY CONSERVATION CONTROLS. SUCH CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

 39. REMOVAL OF ELECTRICAL ITEMS INCLUDES THEIR DISPOSAL. THE EXCEPTION WILL BE TO TURN OVER TO THE OWNER ITEMS, IF ANY,
- THEY SPECIFY TO BE RETAINED IN THEIR INVENTORY. PCB OR ASBESTOS BEARING MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH LAWS AND REGULATIONS.
- 40. EC SHALL PROVIDE & WIRE WEATHERPROOF GFCI RECEPTACLES ON ALL APPLICABLE ROOFTOP UNITS AS PART OF HIS BID. SEE MECHANICAL EQUIPMENT SCHEDULES FOR UNITS WITH SERVICE RECEPTACLES FACTORY INSTALLED.
- 41. UNLESS OTHERWISE NOTED, STARTERS AND DISCONNECTS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL POWERED MECHANICAL EQUIPMENT. THE DIVISION 16 CONTRACTOR IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING FROM SOURCE TO UNIT VIA STARTERS AND DISCONNECTS. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE DIVISION 16 CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS, EQUIPMENT SCHEDULES & NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, AND THE REMOVAL OF ANY STARTERS/DISCONNECTS NO LONGER REQUIRED.

DEMOLITION NOTES (NOT ALL APPLY):

- 1. THE ITEMS SPECIFICALLY SHOWN ON DEMOLITION DRAWING/S ARE TO BE ADDRESSED BY THE ELECTRICAL CONTRACTOR. THE ITEMS ARE TO BE TREATED AS NOTED AND RANGE FROM DIRECT REMOVAL AND DISPOSAL, OR REMOVAL, STORAGE, AND REINSTALLATION/RELOCATION, OR TEMPORARY REMOVE/STORAGE, AND REINSTALLATION IN SAME LOCATION.
- 2. MANY OTHER ELECTRIC ITEMS EXIST THAT ARE NOT SHOWN INCLUDE, BUT ARE NOT LIMITED TO, SWITCHES, RECEPTACLE, FLOOR OUTLETS, LOW VOLTAGE JACKS, LOW VOLTAGE DEVICES AND WIRING, TELEPHONE PUNCH DOWN BLOCKS, AND OUT OF SERVICE ITEMS. ALL SUCH ITEMS SHALL BE PERMANENTLY DE-ENERGIZED, DISCONNECTED, AND OTHERWISE MADE SAFE FOR DEMOLITION BY NON-ELECTRIC DEMOLITION WORKERS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL ELECTRIC DEVICES, OF ANY VOLTAGE OR FUNCTION, THAT ARE TO BE DEMOLISHED ARE SAFE AND ADVISE THE DEMOLITION CONTRACTOR WHEN THIS IS SO.
- 3. AFTER THE ELECTRICAL CONTRACTOR HAS DISCONNECTED ELECTRIC SUPPLIES TO ITEMS TO BE DEMOLISHED, HE SHALL ADVISE THE GENERAL CONTRACTOR OF ANY ELECTRIC ITEMS TO BE RETAINED FOR FUTURE USE AND THEREFOR NOT TO BE DEMOLISHED. THE GENERAL CONTRACTOR SHALL THEN PERFORM ALL WORK ZONE DEMOLITION. THIS MATTER APPLIES TO ALL ELECTRIC ITEMS, OF ANY VOLTAGE OR PURPOSE.
- THE SPECIAL/SPECIFIC ITEMS SHOWN ON THE DRAWING FOR ELECTRICAL CONTRACTOR TO ACT ON WERE FOUND BY SURVEY.
 NUMEROUS LOCATIONS WERE BLOCKED BY FURNITURE, ETC. AND ADDITIONAL EQUAL TYPE ITEMS MAY BE PRESENT. THE
 ELECTRICAL CONTRACTOR SHALL ALLOW FOR THIS IN HIS BID PRICE AND ATTEND TO THOSE EQUAL OR SIMILAR DEVICES AS MAY
 BE DISCOVERED.
 REMOVAL ITEMS THAT ARE LISTED AS TO BE TURNED OVER TO OWNER'S INVENTORY SHALL BE DISCUSSED WITH THE DISTRICT
- REMOVAL ITEMS THAT ARE LISTED AS TO BE TURNED OVER TO OWNER'S INVENTORY SHALL BE DISCUSSED WITH THE DISTRICT
 BUILDINGS AND GROUNDS MANAGER. THOSE ITEMS THAT THE OWNER DECLINES SHALL THEN BE DISPOSED OF BY THE
 CONTRACTOR IN THE MANOR OF OTHER PERMANENT REMOVALS. ANY PCB BEARING FLUORESCENT FIXTURES SHALL BE
 DISPOSED OF PER REGULATIONS.
 RETAIN EXISTING RECEPTACLES IN WALLS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. RETAIN LIGHT SWITCH
- LOCATIONS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. INSTALL BLANKING PLATE COVERS OVER THE UNUSED PORTION OF GANG BOXES HAVING MORE GANG POSITIONS THAN NEEDED FOR NEW SWITCHES.

 7. LIGHT FIXTURES ARE TO BE REMOVED AS GENERAL, NON ELECTRIC, CONTRACTOR DEMOLITION. DIVISION 16 CONTRACTOR RESPONSIBLE TO SAFE OFF LIGHTUING CIRCUITS FOR REMOVAL BY OTHERS. NO SPECIFIC QUANTITIES OR LOCATIONS ARE SHOWN. RETURN WHATEVER QUANTITY, IF ANY, OF THESE TO OWNER'S INVENTORY IF HE SO SPECIFIES OR THEY ARE OTHERWISE TO BE DISPOSED OF. ELECTRICAL CONTRACTOR SHALL EXAMINE FIXTURES FOR PRESENCE OF PCB'S AND SPECIAL
- DISPOSAL.

 8. THE ELECTRICAL CONTRACTOR SHALL COVER ALL BACK BOXES IN THE WALL THAT BECOME EXPOSED DUE TO DEVICE REMOVALS.
 THIS INSTRUCTION ALSO APPLIES TO EXPOSED ELECTRICAL BACK BOXES AS MAY EXIST AT THE SITE PRIOR TO THIS PROJECT.
 THE COVER SHALL BE BRUSHED ALUMINUM WITH CHAMFERED EDGES AND COVER THE HOLE COMPLETELY WITH AT LEAST 3/4"
 EXTRA MARGIN ON ALL SIDES. MOUNT THE COVER WITH SCREWS TO MATCH THE ORIGINAL PATTERN.
- 9. IT IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRIC SUPPLIES, OF VARIOUS VOLTAGES AND PURPOSES, TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRIC SOURCES WHEN THE NEW STRUCTURE IS BUILT. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. PROVIDE ALL REQUIRED CIRCUIT EXTENSIONS AS REQUIRED TO RESTORE SERVICE TO DEVICES. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NOMINALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTOR'S
- 10. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES, FROM DAMAGES DURING CONSTRUCTION, WHICH ARE EITHER INDICATED TO REMAIN, AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO: SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLE, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY DAMAGED DEVICES AT NO ADDITIONAL COST TO OWNER.
- 11. ALL SYSTEM ASSOCIATED WITH THE DEVICES SCHEDULED TO BE REMOVED, STORED AND PROTECTED SHALL BE TESTED BY THE MANUFACTURER'S CERTIFIED TESTING VENDOR PRIOR TO ANY DEMOLITION ACTIVITY. ANY DEVICE WHICH FAILS THE TEST SHALL BE REPLACED WITH A FORM, FIT AND FUNCTION COMPONENT PER UNIT PRICES, AND SUCH DEVICES ARE NOT INCLUDED IN THIS RESPONSIBILITY STATEMENT, BUT ALSO SUCH INSTALLATION SHALL BE IN THE ELECTRICAL CONTRACTOR'S BASE BID. THE ELECTRICAL CONTRACTOR SHALL RE-TEST ALL SUCH SYSTEM COMPONENTS BY A MANUFACTURER CERTIFIED TESTING VENDOR OF SUCH SYSTEM OF ALL PREVIOUSLY TESTED SYSTEM COMPONENTS AFTER ALL WORK BY ALL TRADES HAS BEEN COMPLETED, AND ALL SYSTEM COMPONENTS HAVE BEEN INSTALLED. ANY COMPONENT WHICH FAILS SHALL BE REPLACED, AND PROGRAMMED IF NECESSARY BY THE ELECTRICAL CONTRACTOR. ALL SUCH REPLACEMENT AND PROGRAMMING COSTS SHALL BE ELECTRICAL CONTRACTOR'S RESPONSIBILITY. ALL COSTS ASSOCIATED WITH THE TESTING OF AFFECTED SYSTEM SUCH AS BUT NOT LIMITED TO FIRE ALARM, PUBLIC ADDRESS, INTERCOM, TELEPHONE, AND SECURITY SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL EQUIPMENT, DEVICES, WIRING AND THEIR ASSOCIATED MATERIAL SPECIFIED TO REMAIN, WHICH IS NOT STORED AND PROTECTED, SHALL BE PROTECTED DURING THE DEMOLITION ACTIVITIES, AND ALL TRADES SHALL BE INFORMED OF SUCH COMPONENTS. ANY OF SUCH COMPONENTS WHICH BECOME DAMAGED DURING DEMOLITION SHALL BE REPLACED FORM, FIT AND FUNCTION BY THE ELECTRICAL CONTRACTOR AT HIS EXPENSE.

ABBREVIATIONS

E, EX	EXISTING
ETR	EXISTING TO REMAIN
PSEGLI	PSE&G LONG ISLAND (UTILIT
SM, S.M.	SURFACE MOUNTED
U.O.N.	UNLESS OTHERWISE NOTED
EC, E.C.	ELECTRICAL CONTRACTOR
GC, G.C.	GENERAL CONTRACTOR
MC, M.C.	MECHANICAL CONTRACTOR
PC, P.C.	PLUMBING CONTRACTOR
TYP.	TYPICAL
REQ'D	REQUIRED
O.C.	ON CENTER
CKT	CIRCUIT
AFF	AWAY FROM FLOOR
СВ	CIRCUIT BREAKER

RECEPTACLE

ABOVE COUNTERTOP

TEMPORARY POWER CONSTRUCTION NOTES: (NOT ALL APPLY)

- . THE DIVISION 16 CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHT IN THE NEW AREAS 'D', AND 'E' AND THE
- RECONSTRUCTED AREAS OF THE EXISTING BUILDING.

 2. ALL TEMPORARY POWER PANELS AND FUSED SWITCHES OUTSIDE SHALL BE NEMA 3R CONSTRUCTION AND LOCKABLE. ALL OUTSIDE RECEPTACLES SHALL BE WATERPROOF AND HAVE A COVER THAT ENCLOSES THE PLUGGED IN CORDS WHILE IN SERVICE AS INTERMATIC WP120C. NON-WATERPROOF GEAR IN A HOUSING IS NOT ACCEPTABLE.

 3. ALL RECEPTACLES SHALL BE GFCI PROTECTED AND MOUNTED 3'-0" ABOVE FINISHED FLOOR. PROVIDE WORK BLOCKING AS
- REQUIRED. ALL RECEPTACLES OUTLETS SHALL BE 2 GANG DOUBLE DUPLEX.

 4. TEMPORARY LIGHTING SHALL BE CONSTRUCTED OF SINGLE AND DOUBLE 100 WATT CLEAR INCANDESCENT LAMPS, OR EQUIVALENT, AND WATERPROOF RUBBER SOCKETS, SPLICED WITH WATERPROOF CONNECTORS ON FESTOONED ROMEX-TYPE WIRE. ADEQUACY OF ALL TEMPORARY LIGHTING CONFIGURATIONS SHALL BE AS DETERMINED BY THE CONSTRUCTION MANAGER. PRE ASSEMBLED TEMPORARY LIGHTING IS DISALLOWED. TAPS AND SPLICES SHALL BE MADE WITH SCOTCH LOCK CONNECTORS, RUBBER TAPE, AND THEM PVC COATED. THE CONNECTORS SHALL BE FILLED WITH PENETROX. A PLASTIC SHAPE ON CAGE/GUARD SHALL PROTECT EACH SOCKET AND LAMP. NOMINAL SPACING BETWEEN LAMP CLUSTER IS 16 FEET. MOUNT LIGHTS EIGHT FEET ABOVE FINISHED FLOOR IN TYPICAL LOCATIONS AND 10 FEET ABOVE FINISHED FLOOR IN CORRIDOR. PROVIDE NIGHT LIGHTING CIRCUIT, WHICH SHALL OPERATE CONTINUOUSLY. ALL LAMPS SHALL BE 130 VOLT, ROUGH SERVICE
- RATED. TEMPORARY LIGHTS SHALL BE TO OSHA STANDARDS. ALTERNATE FIXTURES SHALL BE 400W CONSTRUCTION SITE STYLE
 5. PROVIDE HOOK UPS TO JOB TRAILER FOR ALL TRADES. USE SITE POWER AS SOURCE. OWNER PAYS FOR POWER CONSUMPTION.
 6. WIRING SHALL BE 1#12+1#12(N)+1#12(G) ROMEX STYLE. CIRCUITS SHALL BE OPERATED A MAXIMUM OF 15 AMPS OR 1800 WATTS
 (18 100 WATT LAMPS), SWITCHING SHALL BE DONE VIA THE SWITCH RATED 20A, 10 CIRCUIT BREAKERS. SEGREGATE THE NIGHT
- LIGHTS AND RECEPTACLES IN THE LOWER PART OF THE POWER PANELS AND LABEL THESE "DO NOT TURN OFF". CIRCUIT HOME RUNS CONDUCTORS SHALL INCREASE ONE WIRE SIZE EVERY 100 FEET I.E. #10 CONDUCTORS. WIRING WITHIN THE ROOM AREA SHALL BE MADE WITH #12 CONDUCTORS.
- THE DIVISION 16 CONTRACTOR SHALL PREPARE EACH PANEL SCHEDULE.
 A LENGTH OF GREENFIELD FLEX CONDUIT AT PINCH POINTS SHALL PROTECT ALL WIRE, SUCH AS WHERE WIRING PASSED THROUGH A DOORWAY. WIRING SHALL BE SUPPORTED FROM ANCHORS INSTALLED BY THE DIVISION 16 CONTRACTOR FOR THE
- PURPOSE OF ATTACHMENT TO PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.

 ALL WIRING SHALL BE INSTALLED SO AS NOT TO CAUSE TRIPPING HAZARD OR SIMILAR OBSTRUCTION.

 POWER PANELS SHALL BE EQUIPPED WITH 42 1P, 20A CIRCUIT BREAKERS AND ALL CIRCUIT BREAKERS NOT IN SERVICE SHALL BE
- LABELED SPARE. AT THE OWNERS OPTION PANEL AND CIRCUIT BREAKERS SHALL BE TURNED OVER TO OWNERS INVENTORY AT CONCLUSION OF THE PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.

 12. THE DIVISION 16 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF TEMPORARY LIGHTING AND POWER SYSTEMS DURING, AND AFTER INSTALLATION, UP TO THE TIME OF BENEFICIAL OCCUPANCY, AND TIME OF REMOVAL. REPAIRS SHALL BE MADE WITHIN 24 HOURS OF THE REPORTED OUTAGE, OR AS DIRECTED BY THE CONSTRUCTION MANAGER. DIVISION 16 CONTRACTOR SHALL COMMENCE WORK ON THIS PROJECT WITH A GROSS OF SPARE CONSTRUCTION BULBS AT HIS IMMEDIATE
- DISPOSAL.

 13. REMOVAL OF THE TEMPORARY POWER AND LIGHTING SHALL BE THE RESPONSIBILITY OF THE DIVISION 16 CONTRACTOR WHEN THE PROJECT IS COMPLETE. ALL EQUIPMENT, WIRING SUPPORTS, CONNECTORS, ETC. SHALL BE REMOVED FROM OWNER'S PROPERTY AFTER PROJECT IS COMPLETE. INCLUDE STATEMENT OF REMOVAL WITHIN CLOSE OUT DOCUMENTS, REQUIRED FOR
- PROVIDE THE TEMPORARY ELECTRICAL SERVICE TO THE CONSTRUCTION TRAILERS SHALL BE AS PER USERS REQUIREMENTS
 OF THE TRADES. TEMPORARY SERVICES ARE REQUIRED PER SPECIAL CONDITIONS OF THE PROJECT.
 ALL TEMPORARY POWER WORK SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER SPECIAL EMPHASIS SHALL BE
 EXERCISED FOR TERRAZZO MACHINES AND ITS ELECTRICAL REQUIREMENT.

FIRE STOP NOTES:

- 1. ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED.

 2. THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, 6P-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-635 TROWEL ABLE COMPOUND, AS SUITABLE
- 3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS SPECIFIED OR $\underline{\mathsf{EQUAL}}$.
- 4. FIRE STOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS AND STATEMENT FROM MANUFACTURER THAT THEY MEET OR EXCEED THE PRODUCTS SPECIFIED HERE.
- 5. ALL SYSTEMS SHALL HAVE THEIR OWN SLEEVE THROUGH FIRE RATED WALLS. IE FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA, POWER AND LIGHTING.

ELECTRICAL SYMBOL LEGEND	
	HIGH BAY LIGHTING
	WALL MOUNTED LIGHTING
S _{xx}	LIGHTING SWITCH. 'xx' DENOTES SWITCH LEG
\$	EXIT SIGN
Н	FIRE ALARM HORN STROBE
F	FIRE ALARM PULL STATION
	ELECTRICAL POWER PANEL
	DISCONNECT - NEMA 3R
PC	OUTDOOR RATED PHOTOCELL
VS	VACANCY SENSOR
SITE SYMBOL LEGEND	
нн	UNDERGROUND HAND HOLE
J	PULL BOX
•	OUTDOOR RECEPTACLE
	POLE MOUNTED LIGHTING

SIMILAR SYMBOLS USED ON DEMO PLANS. ALL ITEMS SHOWN ON DEMO PLAN TO BE REMOVED ENTIRELY UNLESS OTHERWISE NOTED.

LINE DESIGNATIONS

EXISTING TO REMAIN DEVICES

DEVICES TO BE REMOVED. PULL
BACK ALL ASSOCIATED CONDUIT
AND WIRING AND REMOVE UNLESS
OTHERWISE NOTED ON THE PLANS
(UNDERGROUND ELEC CONDUIT
ON SITE PLAN).
NEW DEVICES

UNDERGROUND ELECTRICAL
CONDUIT

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REV. DATE

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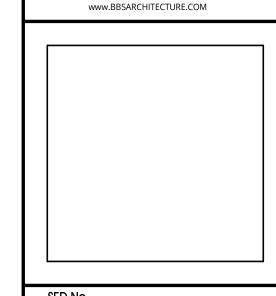
CHK. BY:

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SED No.
66-01-02-06-0-007-011

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT
PHASE 1A - BOND IMPROVEMENTS

SCALE: AS NOTED

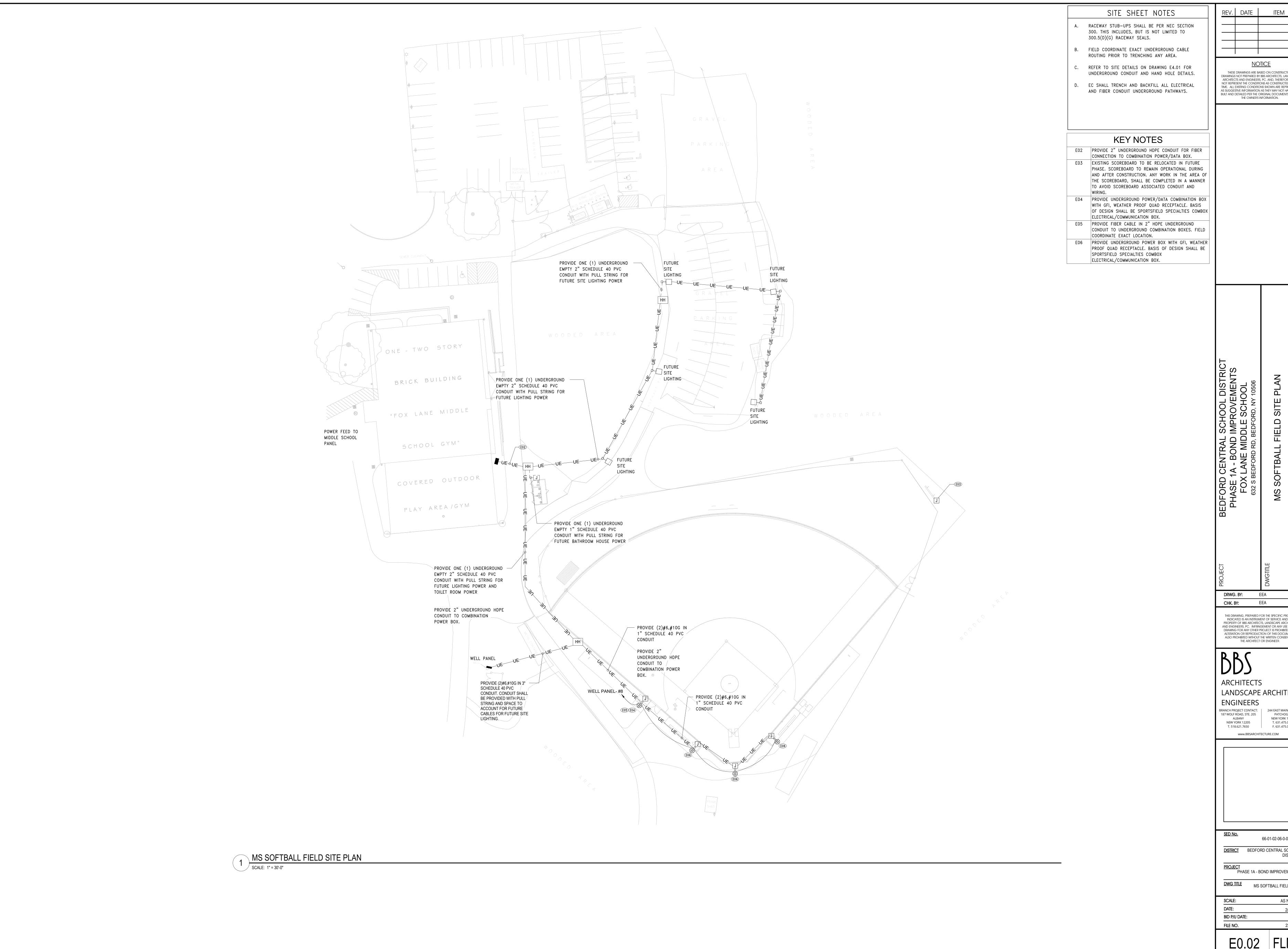
DATE: 2/2/2023

BID P/U DATE: -

DWG TITLE GENERAL NOTES, SYMBOLS

AND ABBREVIATIONS

F0.01 FLMS



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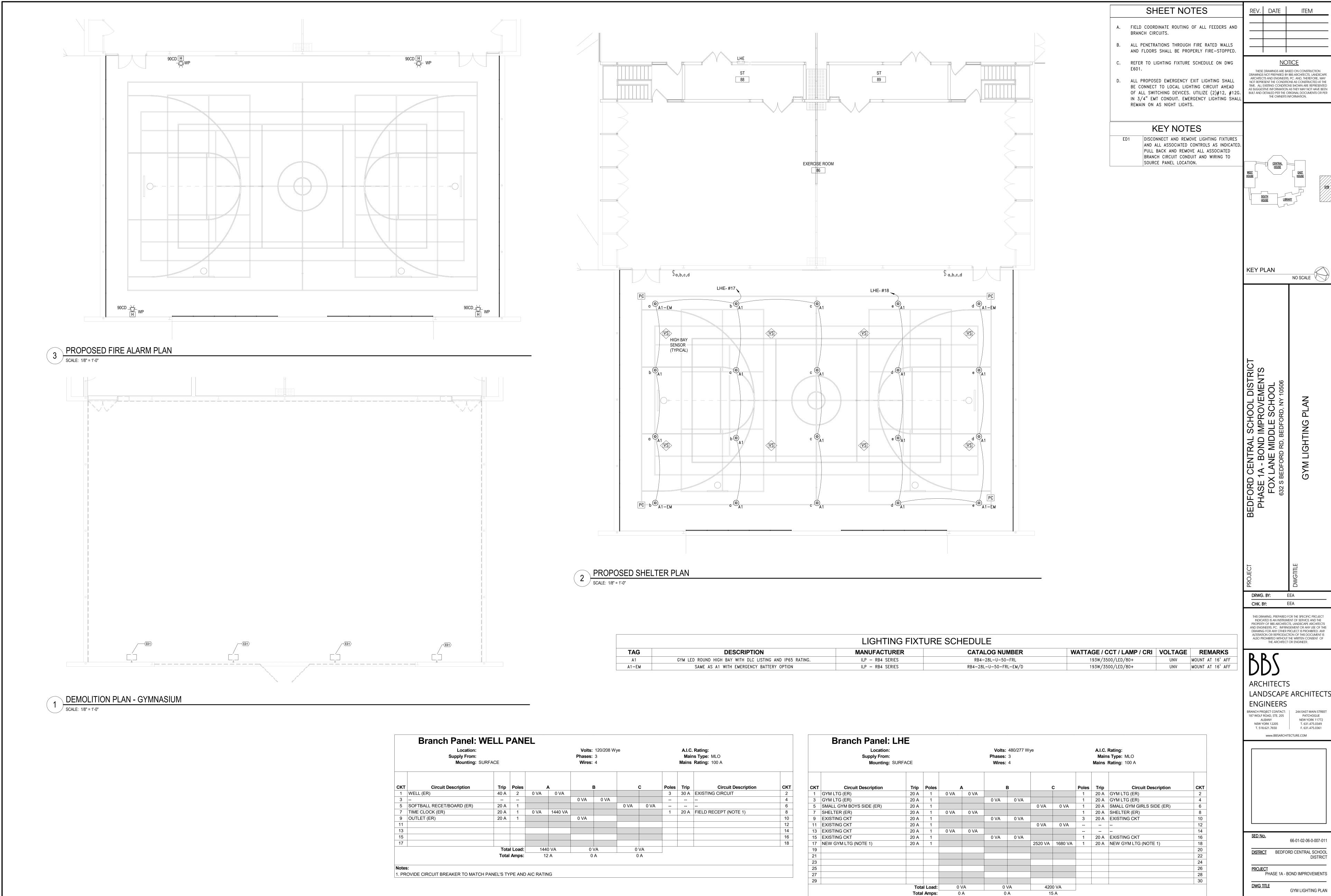
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66-01-02-06-0-007-011 DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

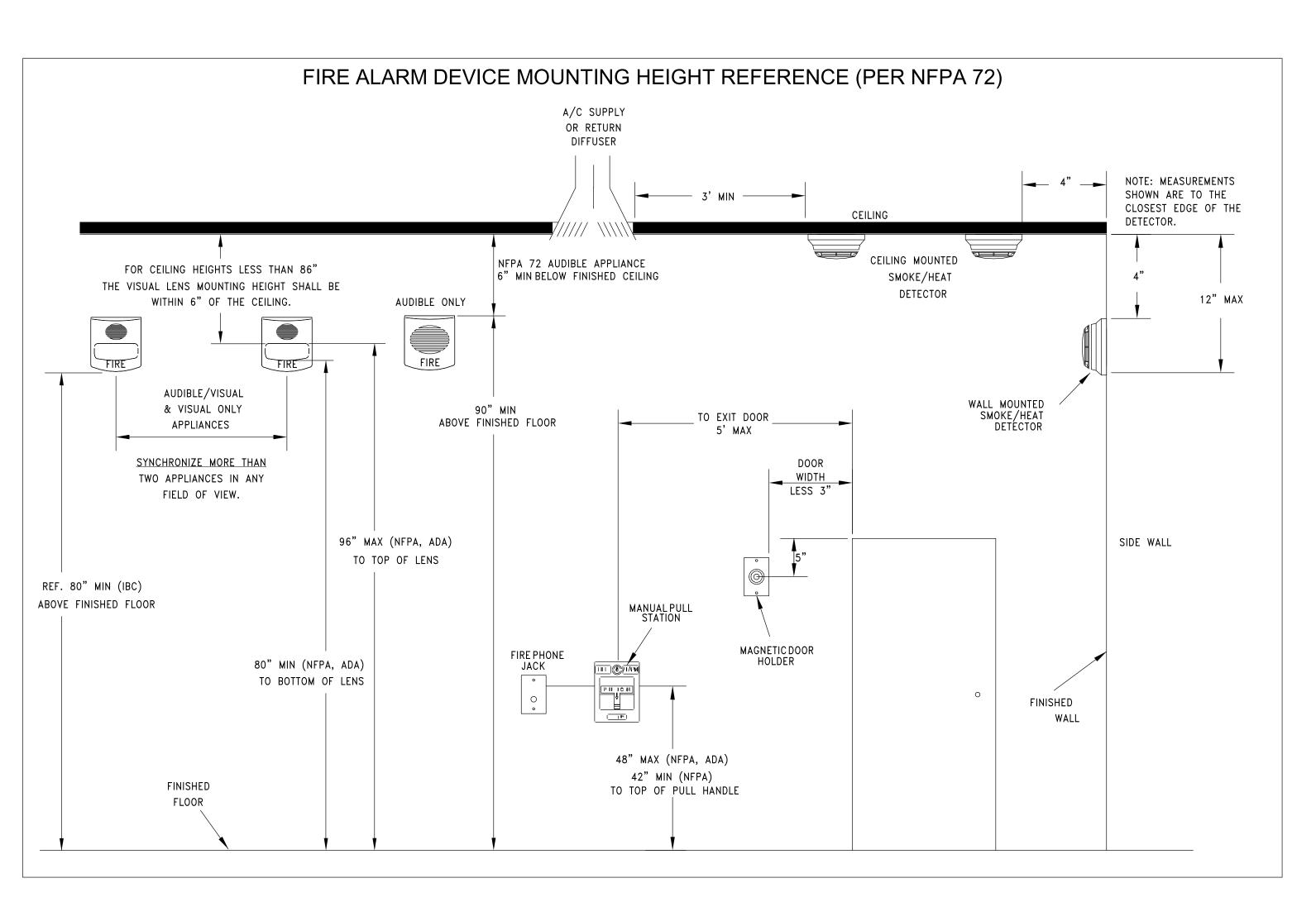
PROJECT
PHASE 1A - BOND IMPROVEMENTS

AS NOTED

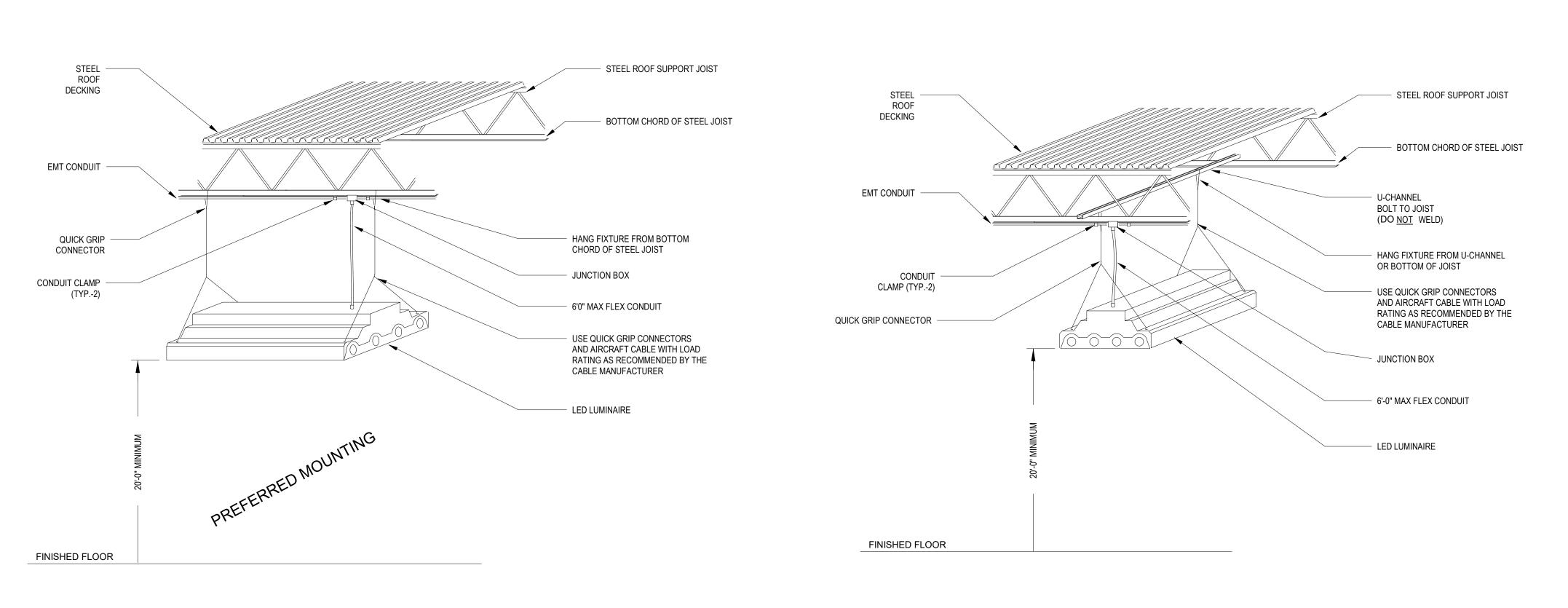


1. PROVIDE CIRCUIT BREAKER TO MATCH PANEL'S TYPE AND AIC RATING

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PHASE 1A - BOND IMPROVEMENTS GYM LIGHTING PLAN SCALE: AS NOTED DATE: BID P/U DATE: FILE NO.



2 TYPICAL FIRE ALARM HEIGHT
SCALE: NTS



1 TYPICAL HIGHBAY LIGHTING FIXTURE MOUNTING DETAIL SCALE: N.T.S.

66-01-02-06-0-007-011

ELECTRICAL DETAILS

AS NOTED

DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT
PHASE 1A - BOND IMPROVEMENTS

DWG TITLE

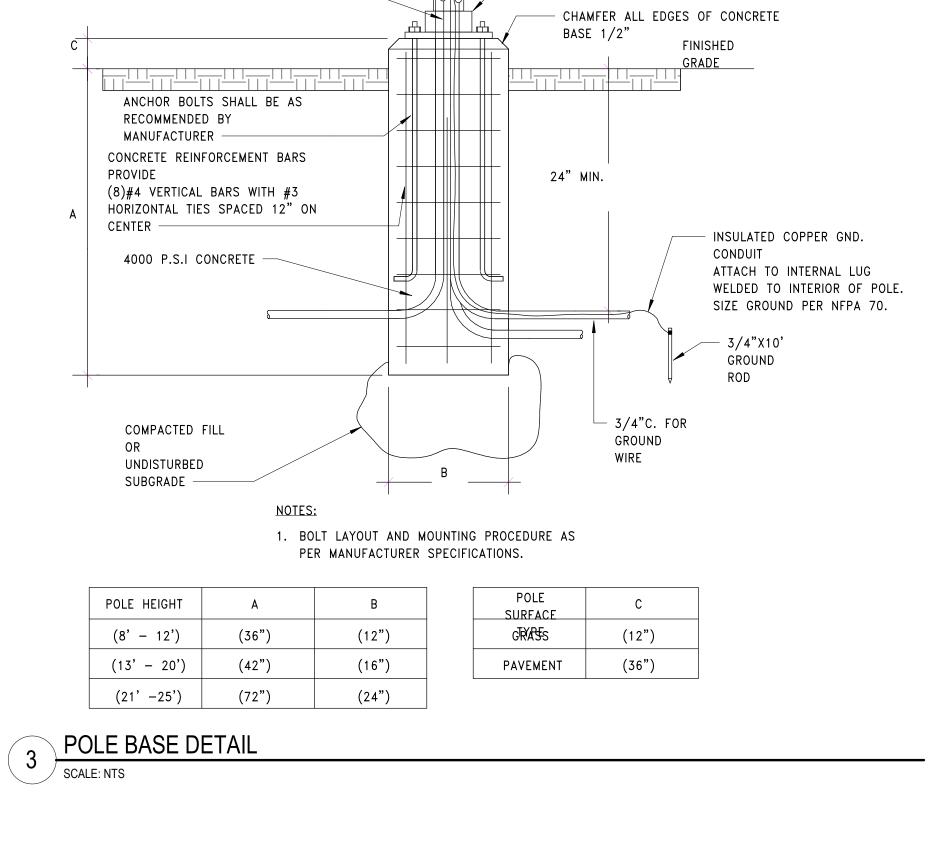
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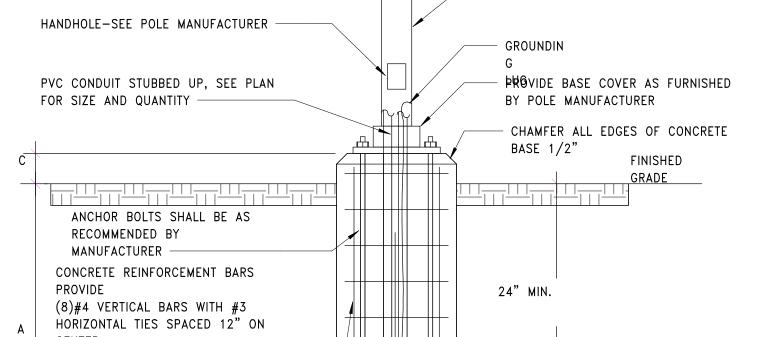
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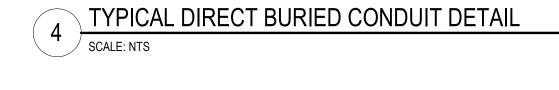
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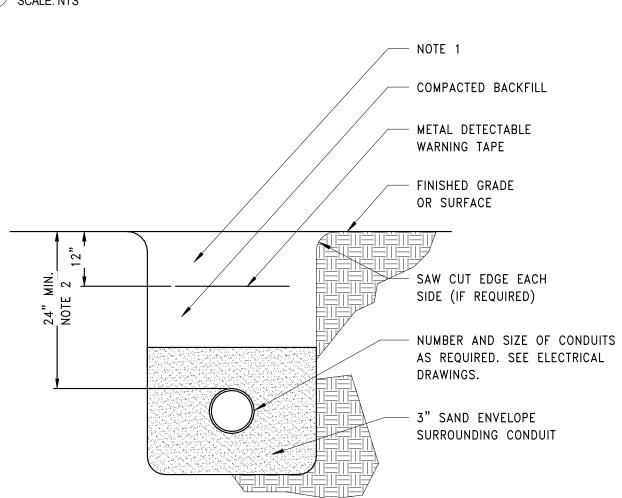


- POLE AS SPECIFIED



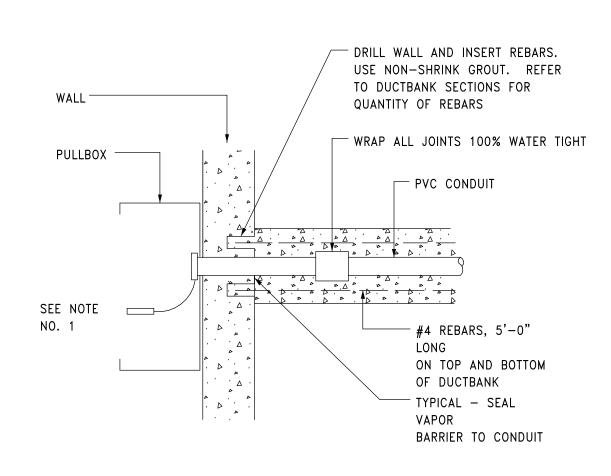
BUT NOT LIMITED TO: CONCRETE, CRUSHED STONE, SELECT GRAVEL, ASPHALT, TOPSOIL AND GRASS. 2. 24" MIN. OR 6" BELOW BOTTOM OF FROST LINE, WHICHEVER IS

<u>NOTE</u> 1. REPLACE EXISTING SURFACE CONDITIONS IN KIND TO INCLUDE,



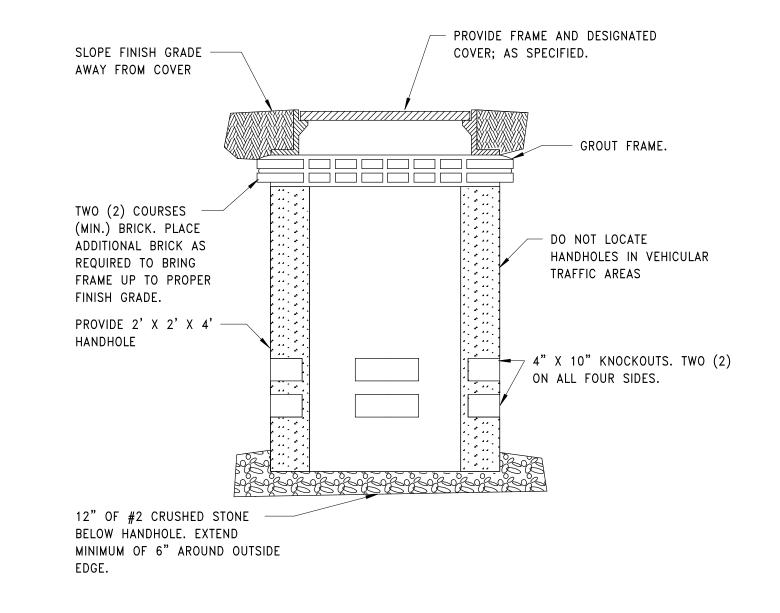
CONDUIT PENETRATION INTO BUILDING DETAIL SCALE: NTS

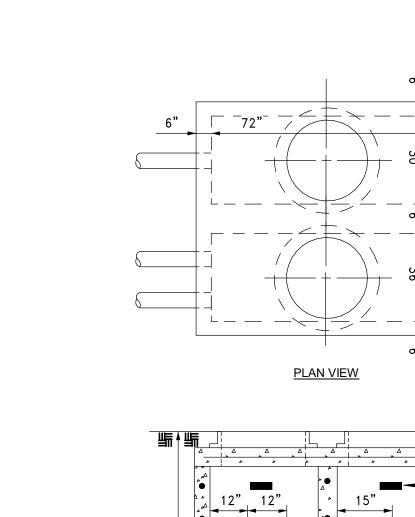
DETAIL NOTES:
AI EACH CONDUIT, PROVIDE AN ENGRAVED PLASTIC ^{A.} NAMEPLATE, INDICATING CONDUIT NO., AND ATTACH TO CONDUIT WITH NYLON CABLE TIE.



HAND HOLE DETAIL 2 SCALE: NTS

DETAIL NOTES: A. ALLOW SUFFICIENT SLACK CABLE SO SPLICES CAN BE MADE ABOVE GRADE OUTSIDE OF HANDHOLE. LOWER SPLICE AND SLACK CABLE INTO HANDHOLE IN A NEAT ARRANGEMENT.





POWER

SECTION

SCALE: NTS

COMBINATION POWER AND DATA HH DETAIL

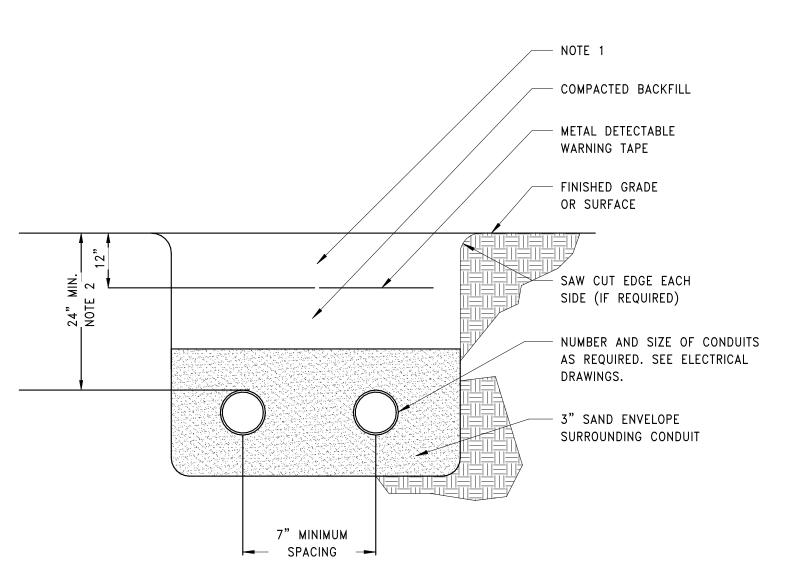
CONDUIT STUB UP INSIDE BUILDING DETAIL SCALE: NTS

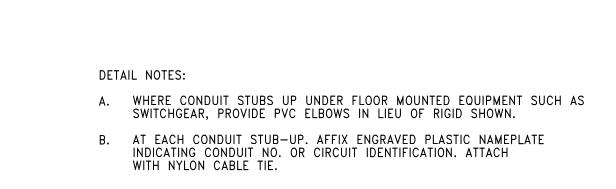
1. REPLACE EXISTING SURFACE CONDITIONS IN KIND TO INCLUDE, BUT NOT LIMITED TO: CONCRETE, CRUSHED STONE, SELECT GRAVEL, ASPHALT, TOPSOIL AND GRASS. 2. 24" MIN. OR 6" BELOW BOTTOM OF FROST LINE, WHICHEVER IS DEEPER.

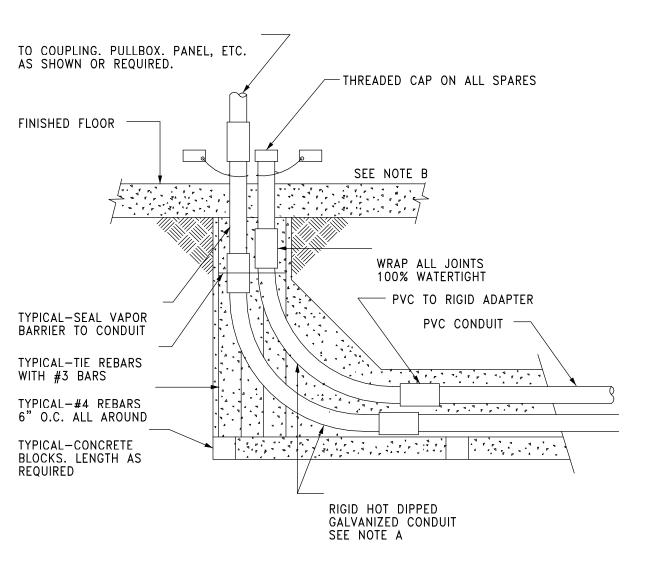
TYPICAL DIRECT BURIED CONDUIT DETAIL - MULTIPLE

<u>NOTE</u>

SCALE: NTS







CONDUIT END

- CONDUIT(S) REFER

TO FEEDER SCHEDULES

AND SPECIFICATIONS

CAST IRON HANDHOLE

CAT. #R-1773 (TYP)
- 6" COVER

TYP) ILLEPHONE SECTION

BARS, 12" O.C. (TYP)

3000 PSI CONCRETE

SUMP FILLED WITH

#4 DEFORMED REINFORCEING

18" DIAMETER X 18" DEEP

LID ASSEMBLY,

PULLING EYE

28 DAYS

CRUSHED

STONE

NEENAH

BELLS (TYP)

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ENGINEERS

BRANCH PROJECT CONTACT:

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ALBANY

SED No.

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66-01-02-06-0-007-011

ELECTRICAL SITE DETAILS

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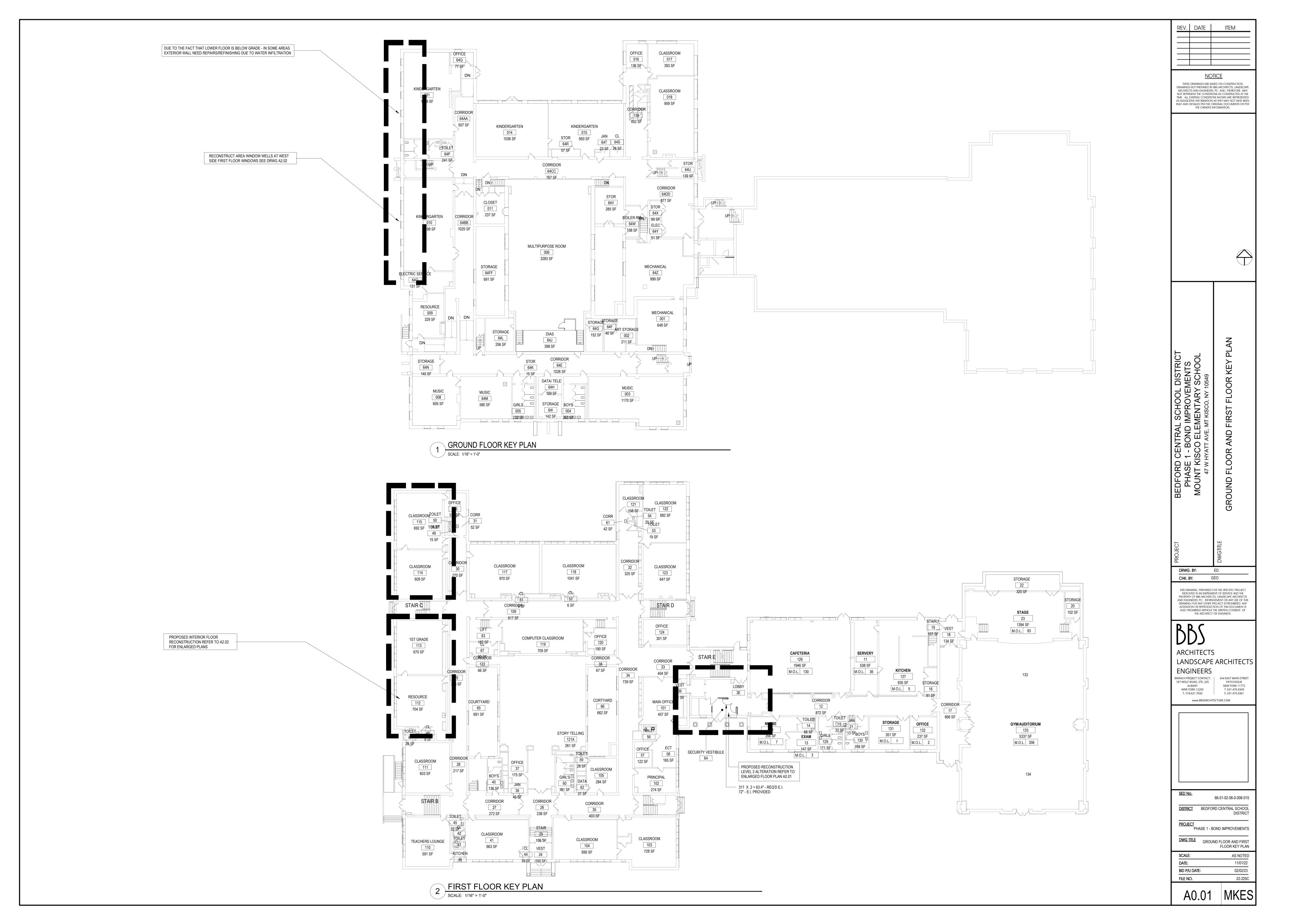
22-225B

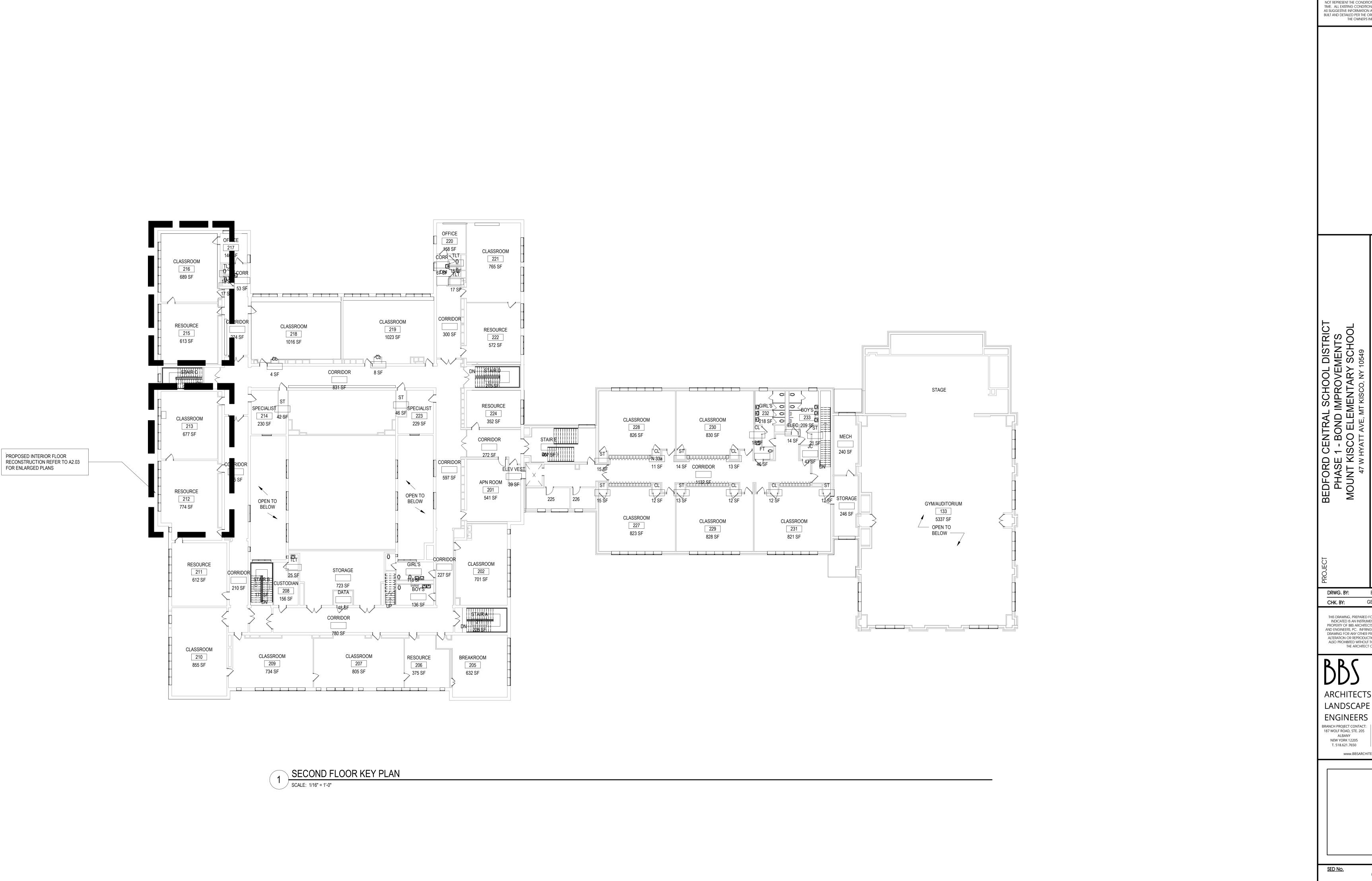
DISTRICT BEDFORD CENTRAL SCHOOL

PROJECT
PHASE 1A - BOND IMPROVEMENTS

E4.02 FLMS

REV.	DATE	ITEM		
-				
l				
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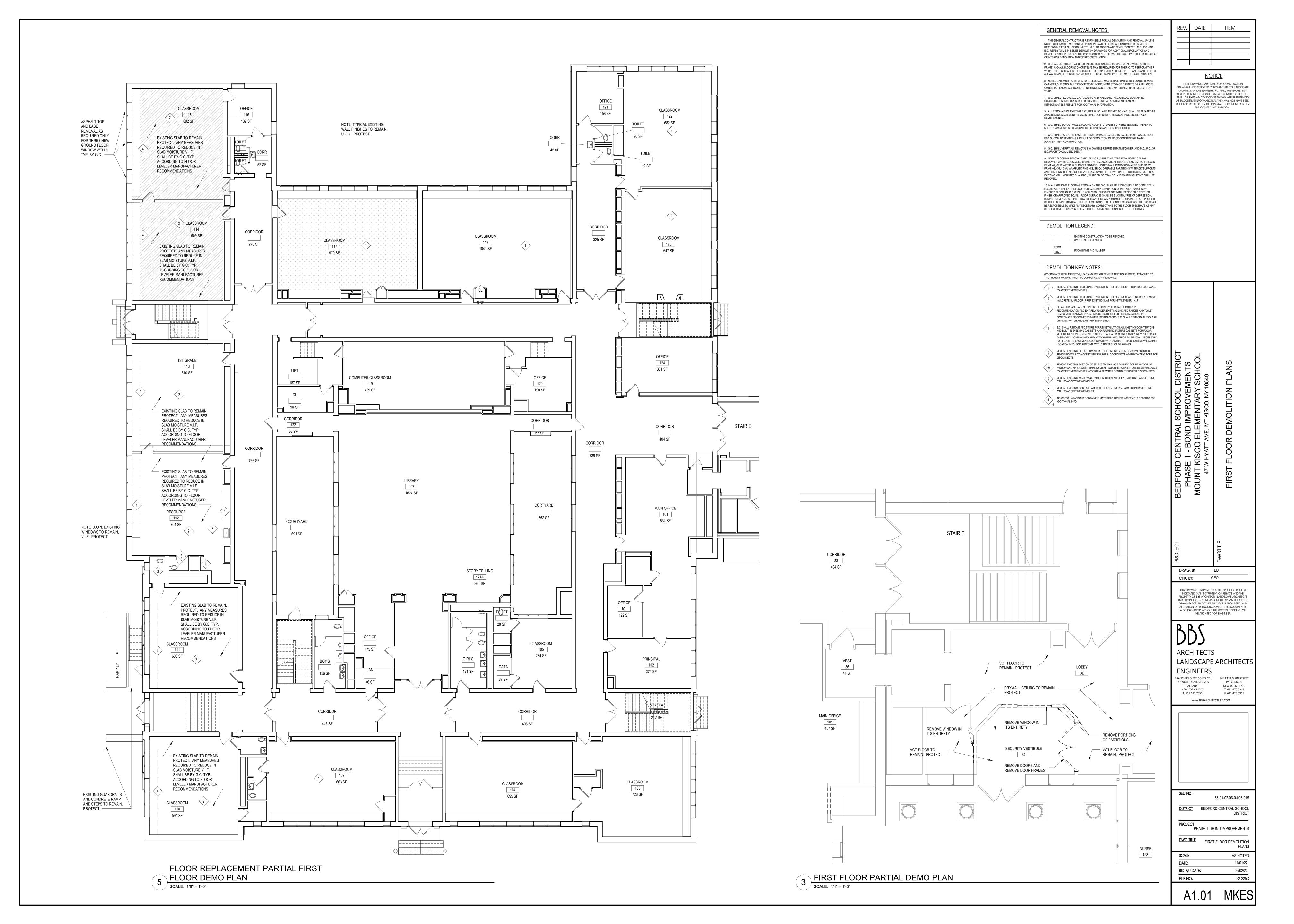
66-01-02-06-0-006-015 DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT

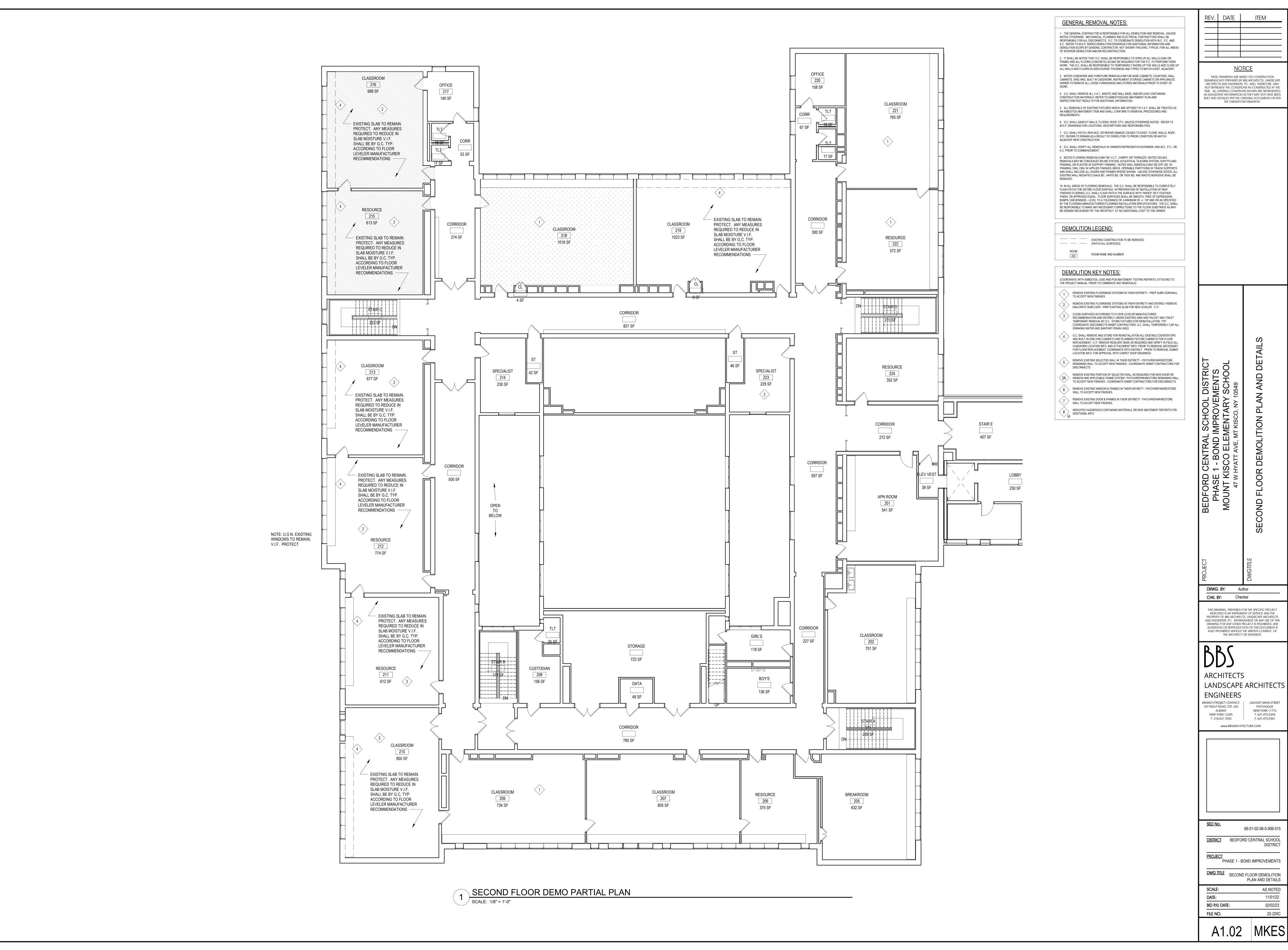
PROJECT
PHASE 1 - BOND IMPROVEMENTS DWG TITLE SECOND FLOOR KEY PLAN

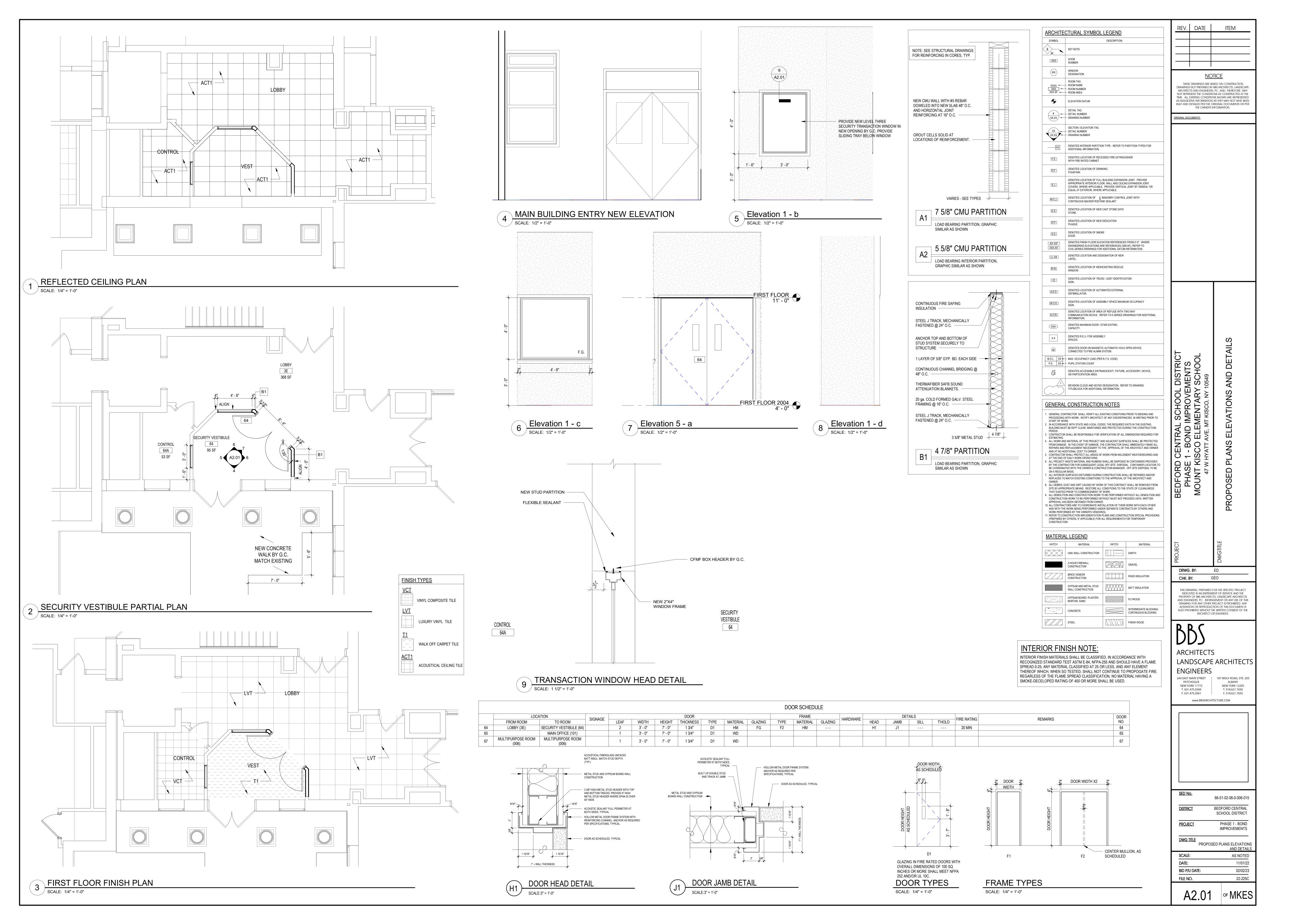
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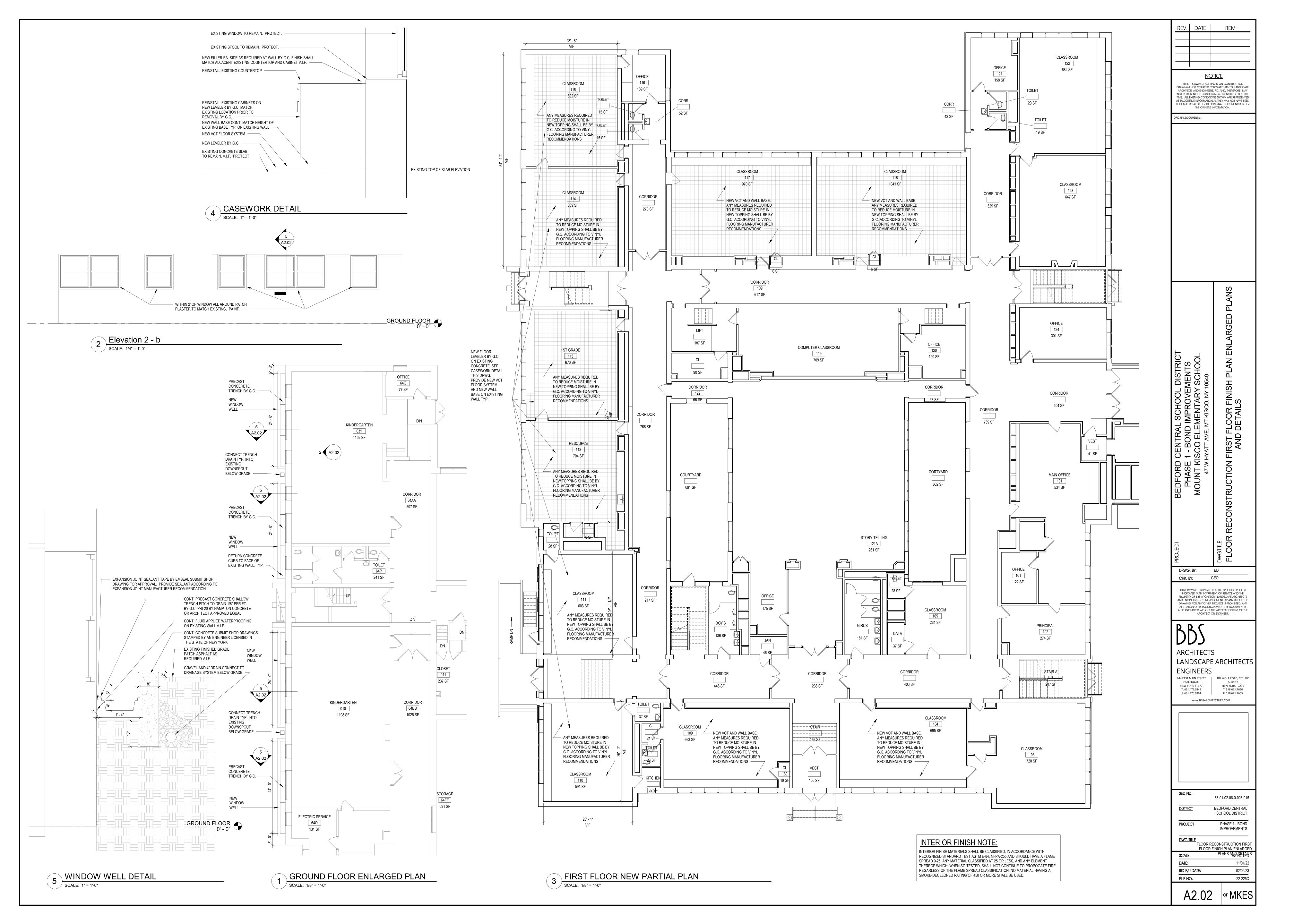
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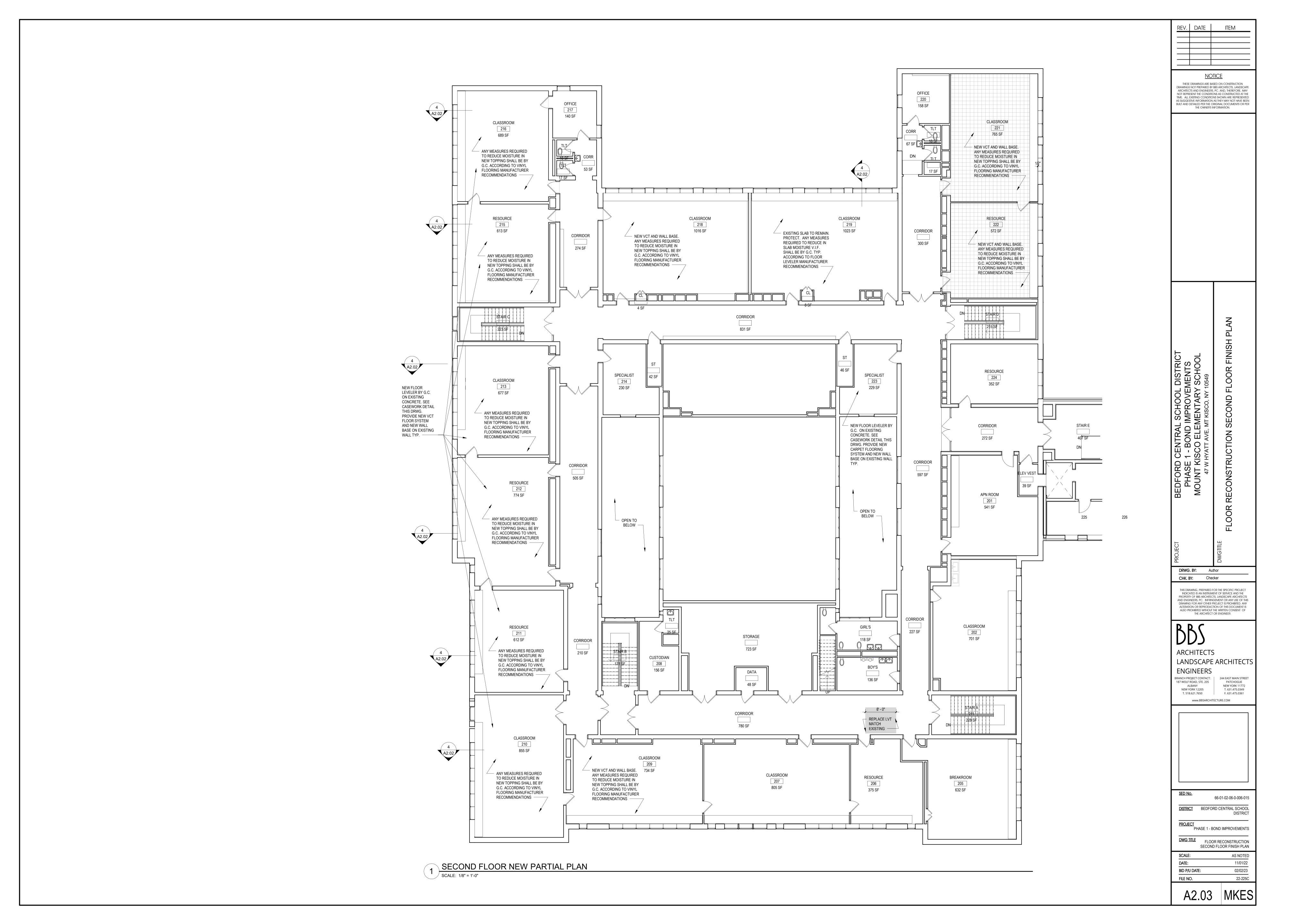
BID P/U DATE: AS NOTED 11/01/22 02/02/23 22-225C

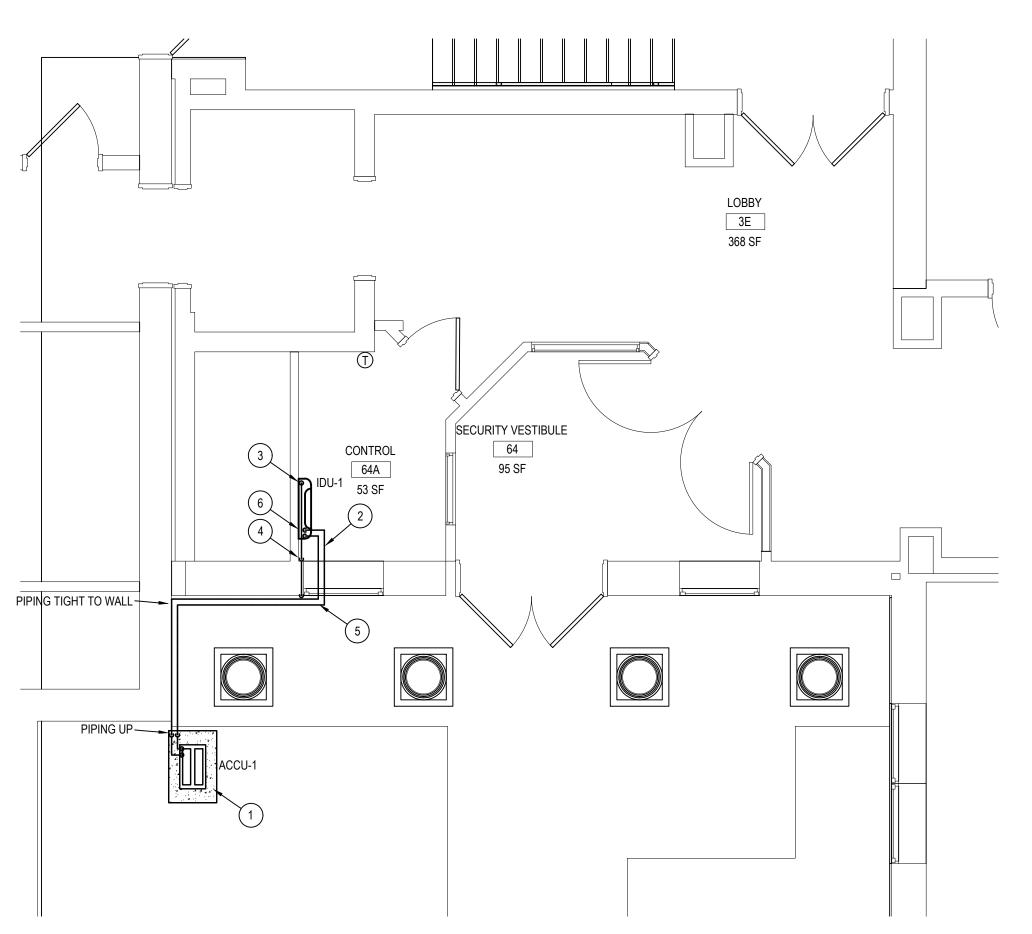












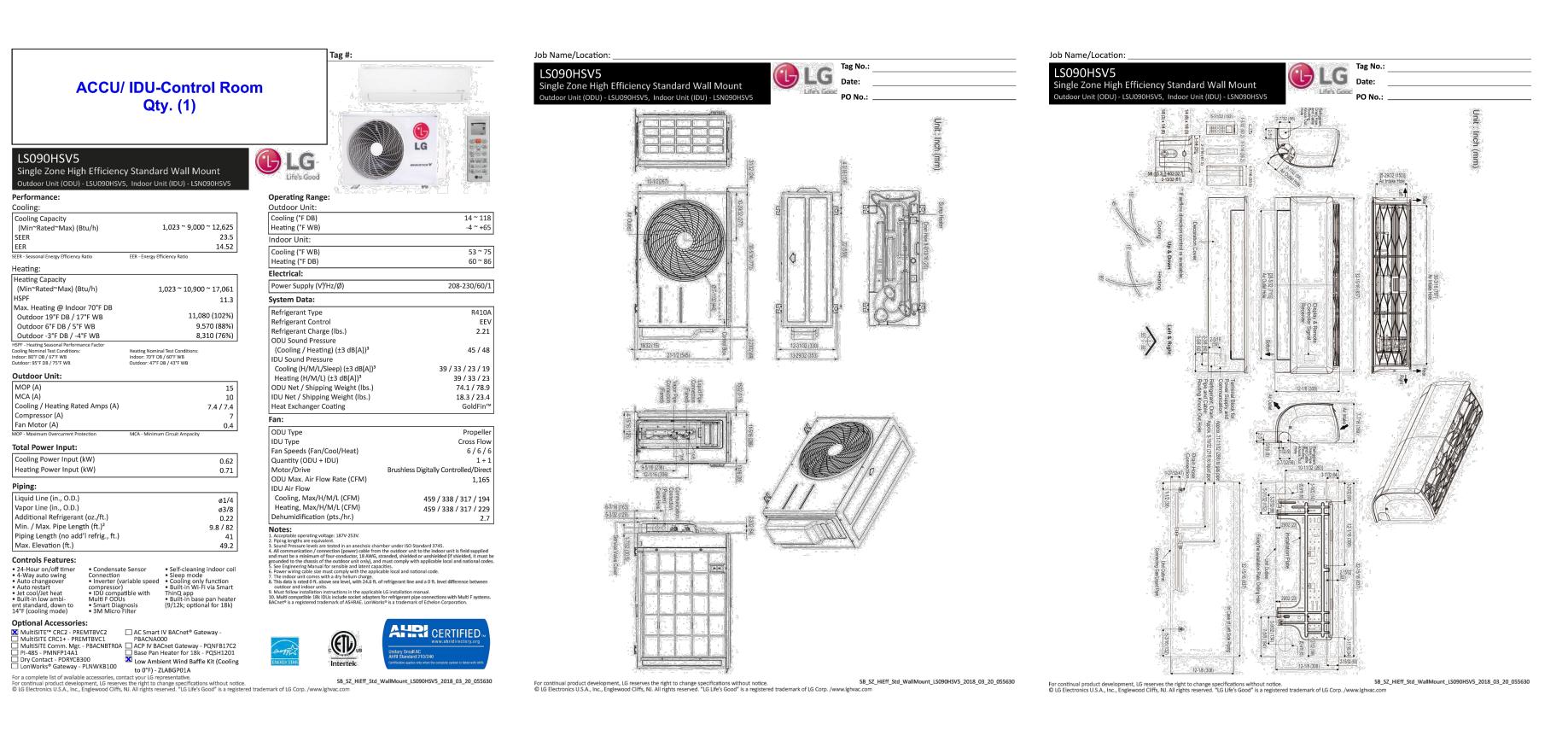
SECURITY VESTIBULE NEW PLAN

NEW WORK NOTES:

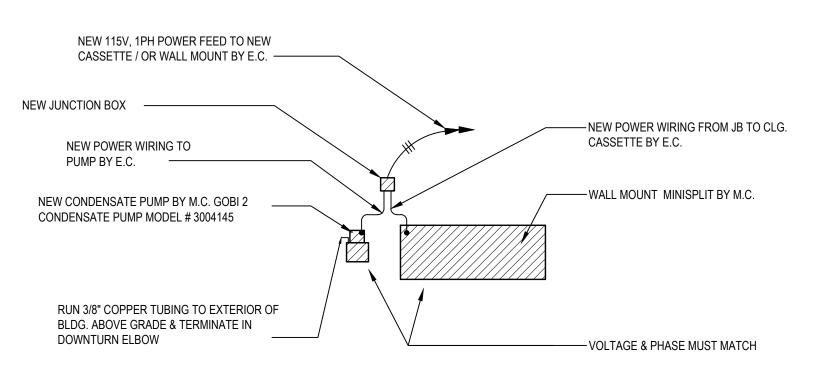
- 1. EXISTING DUCTWORK AND EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE
- . MC IS RESPONSIBLE FOR REMOVAL & RE-INSTALLATION OF EXISTING DROP CLG., LIGHT FIXTURES, FIRE ALARM DEVICES & CEILING DIFFUSERS TO PERFORM DEMOLITION & NEW WORK.
- 3. CONTRACTOR IS RESPONSIBLE TO REPLACE ANY DAMAGED COMPONENTS FROM CONSTRUCTION

BIDDER'S NOTE:

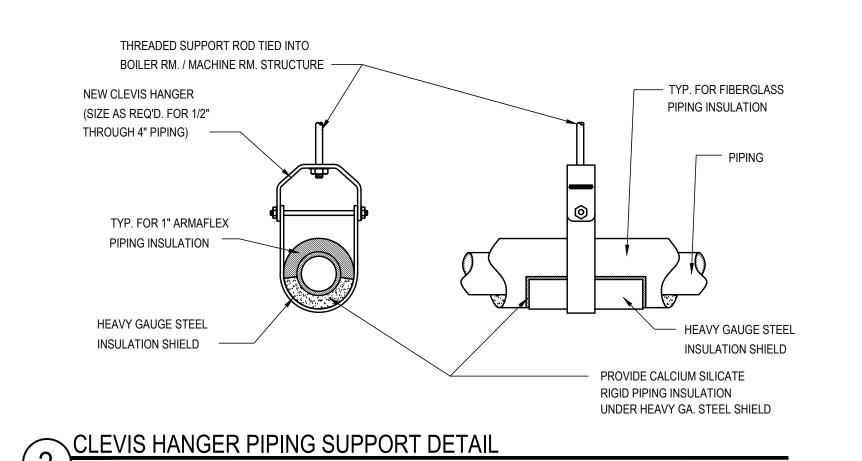
- 1. ALL WORK NOTED THIS DRAWING SHALL BE INCLUDED UNDER ADD ALTERNATE 1 TO BASE BID MC-2
- (1.) MC TO INSTALL NEW OUTDOOR CONDENSING UNIT ON CONCRETE PAD AT GRADE , CONCRETE PAD BY MC. UNITS TO BE FACING FORWARD, WITH THE BACK TOWARD THE BUILDING. M.C. TO MOUNT REFER TO UNIT MANUAL FOR ADDITIONAL INSTRUCTION
- (2.) VRF PENETRATION INTO FIRST FLOOR, MC TO MAKE PENETRATION ,MC TO RUN VRF PIPING WITH CLEVIS SUPPORT HANGERS SEE DETAIL 2
- (3.) MC TO INSTALL THE GOBI 2 CONDENSATE PUMP INLINE WITH NEW MINISPLIT IDU-1. SEE DETAIL 1
- (4.) MC TO INSTALL 3" CONDENSATE TO BE RAN INTERNALLY BEFORE TERMINATION POINT, MC TOO CORE DRILL AS NECESSARY, SPILL CONDENSATE AWAY FROM BUILDING, PROVIDE DOWNSPOUT AND WIRE MESH SCREEN. PIPING TO BE PAINTED TO MATCH EXISTING EXTERIOR
- (5.) VRF PIPING THRU WALL ABOVE WINDOW, KEEP TIGHT TO WALL, MC TO PENETRATE WALL, MC TO INSTALL VRF PIPING AS NECESSARY FOR PROPER INSTALLATION. INSTALL WITH LINE SET COVER, PAINT TO MATCH EXISTING EXTERIOR. COLOR BY ARCH.
- (6.) PIPING DOWN FROM ABOVE CEILING TO UNIT, USE LINE-HIDE LINE SET COVERS TO HIDE VRF & CONDENSATE PIPING

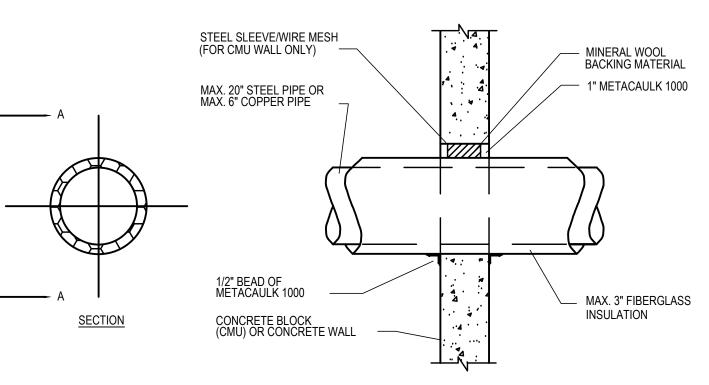


IDU-1 / ACCU-1



\MINI SPLIT / CONDENSATE PUMP WIRING DIAGRAM





PIPING WALL PENETRATION

GENERAL NOTES

- REMOVAL & RELOCATION OF CERTAIN EXISTING WORK SHALL BE NECESSARY FOR THE PERFORMANCE OF THE NEW WORK SHOWN HEREIN. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THE DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE & MAKE ALL NECESSARY CHANGES BASED ON EXISTING CONDITIONS AS REQUIRED FOR PROPER DEMOLITION OF EXISTING WORK & SHALL INCLUDE ALL MATERIALS & LABOR FOR SAME IN HIS BID PRICE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO DO SO.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE PREMISES OF THE PROPOSED WORK & SHALL CAREFULLY EXAMINE THE ENGINEERING DRAWINGS, EXISTING CONDITIONS & LIMITATIONS THEREOF. VERIFY ACTUAL LOCATIONS WHERE THE NEW PIPING WILL BE ROUTED, COORDINATE WITH NEW & EXISTING WORK & PROVIDE CLEARANCE W/ BUILDING STRUCTURE, OTHER SERVICES, ETC.. THE CONTRACTOR SHALL INCLUDE ALL COSTS WHATSOEVER WHICH ARE INCURRED AS A RESULT OF LIMITATIONS OF THE EXISTING & NEW CONDITIONS. LATER CLAIMS FOR EXTRA LABOR, EQUIPMENT, MATERIALS, ETC. REQUIRED DUE TO DIFFICULTIES WHICH COULD HAVE BEEN FORESEEN WILL NOT BE CONSIDERED AS EXTRA WORK.
- INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATING, MAINTENANCE & REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF MAGNITUDE WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHEN NECESSARY, EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN CRATED SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AREAS AVAILABLE. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH THE BUILDING.
- COORDINATE THE EXACT SIZE & LOCATION OF NEW OPENINGS WITH EXISTING STRUCTURE. PATCH / INSULATE AS REQUIRED. CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS FROM NEW PIPING, CONDUIT, DUCTWORK, ETC. THROUGH EXISTING OR NEW FIRE/ SMOKE BARRIERS. REFER TO SPECIFICATION SECTION 15511 FOR FURTHER DETAILS.
- IT IS THE INTENT OF THIS CONTRACT FOR REMAINING SYSTEMS TO BE LEFT IN GOOD WORKING ORDER, READY FOR OPERATION. COORDINATE ANY REQUIRED SYSTEM SHUTDOWNS WITH OWNER 48 HOURS IN ADVANCE. EXISTING SYSTEM SHUTDOWNS WILL NOT BE PERMITTED IF THEY INTERFERE WITH THE DAILY OPERATIONS OF THE BUILDING. CONTRACTOR WILL BE REQUIRED TO TAKE PROPER PRECAUTIONS AGAINST DAMAGING OR DISRUPTING BUILDING SYSTEMS, WIRING, PIPING OR CONTROL TUBING. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED AT THE CONTRACTOR'S COST AS A PART OF THIS CONTRACT. THE CONTRACTOR SHALL REPAIR / RESTORE TO ORIGINAL CONDITION ANY EXISTING EQUIPMENT OR MATERIALS DAMAGED IN THE PROCESS OF INSTALLATION, OR DEMOLITION TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE. CONTRACTOR SHALL MAKE REPAIRS USING THE SAME OR EQUIVALENT MATERIALS. WORK WILL BE PERFORMED AT THE CONTRACTOR'S COST.
- CONTRACTOR SHALL INCUR ANY COSTS OR BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT / MATERIALS.
- DURING THE LIFE OF THE CONTRACT PERIOD, CONTRACTOR SHALL REMOVE ALL RUBBISH / EXCESS MATERIAL ACCUMULATED AS A RESULT OF HIS OPERATIONS ON A DAILY BASIS. ALL AREAS / EQUIPMENT AFFECTED UNDER THIS CONTRACT SHALL BE KEPT CLEAN OF DUST / DEBRIS. ALL AREAS SHALL RECEIVE A FINAL CLEANING PRIOR TO FINAL ACCEPTANCE BY THE OWNER.
- PROVIDE FOR LEGAL REMOVAL / DISPOSAL OF ALL RUBBISH / DEBRIS FROM THE BUILDING & SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO SCHEDULING THE WORK. WORK SHALL BE PERFORMED IN PROPER SEQUENCE, AS AGREED TO BY ALL TRADES. ANY COSTS INCURRED BY THE OWNER DUE TO IMPROPER SEQUENCING OF WORK WILL BE PAID FOR BY THIS
- 2. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC. ASSOCIATED WITH THE WORK UNDER THEIR CONTRACT.
- 3. PAINT / TOUCH UP ALL SURFACES MARRED AS A RESULT OF THE PERFORMANCE OF THE CONTRACT WORK.

ADDITION, PROVIDE (2) COMPLETE SETS OF FILTERS FOR EACH PEICE OF EQUIPMENT & TURN OVER TO OWNER.

- 4. THE MECHANICAL CONTRACTOR SHALL REFER TO / REVIEW ALL OTHER TRADE DRAWINGS IN THE BID PACKAGE & SHALL BE RESPONSIBLE FOR / PERFORM ALL WORK INDICATED AS (M.C.) MECHANICAL WORK AS A PART OF THE BASE BID UNLESS SPECIFICALLY NOTED OTHERWISE.
- SUBSTITUTED EQUIPMENT OF GREATER OR LARGER POWER, DIMENSIONS, CAPACITIES & RATINGS MAY BE FURNISHED PROVIDED THAT SAID EQUIPMENT IS APPROVED IN WRITING PRIOR TO ORDER. ANY CONNECTING MECHANICAL SERVICES, ELECTRICAL SERVICES, BASES, STRUCTURAL APPURTENANCES, ETC. REQUIRED TO BE INCREASED DUE TO THE USE OF SAID EQUIPMENT WILL BE PAID FOR IN FULL BY THE MECHANICAL CONTRACTOR, INCLUDING ANY ADDITIONAL REQUIRED ENGINEERING FEES.
- EACH PIECE OF EQUIPMENT SHALL BE PROVIDED WITH A PERMANENT TYPE LAMINATED, BLACK FINISH, WHITE CORE, PHENOLIC NAMEPLATES SHOULD INDICATE THE NAME & NUMBER OF THE UNIT, UNIT VOLTAGE, & ANY INTERLOCK REFERENCE. STARTERS / DISCONNECT SWITCHES SHOULD ALSO BE EQUIPPED WITH AN IDENTICAL NAMEPLATE WITH THE SAME INFORMATION.
- "ATTIC STOCK" UPON COMPLETION OF THE PROJECT, MECHANICAL CONTRACTOR SHALL COMPLETELY REMOVE / DISPOSE OF FILTERS USED DURING CONSTRUCTION & START-UP PROCEDURES. INSTALL NEW FILTERS IN ALL EQUIPMENT, MERV-8 OR BETTER UPON TURN OVER OF THE PROJECT TO THE OWNER. IN
- MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EACH SIZE MOTOR USED ON THE PROJECT. IN INSTANCES WHERE MOTE THAN TEN OF THE SAME MOTOR ARE USED, MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EVERY TEN MOTORS OF A GIVEN SIZE USED ON THE
- MAINTENANCE MANUAL: UPON COMPLETION OF THE PROJECT, THE MECHANICAL CONTRACTOR SHALL PROVIDE A BINDER CONTAINING THE OPERATIONS & MAINTENANCE MANUALS FOR EACH NEW PEICE OF EQUIPMENT INSTALLED UNDER THIS PROJECT. THE FIRST SECTION OF THE MAINTENANCE MANUAL SHALL CONTAIN A LIST OF EACH PEICE OF EQUIPMENT, COMPLETE WITH INFORMATION SHOWING APPROPRIATE REPLACEMENT FILTER SIZES / TYPES, APPROPRIATE REPLACEMENT MOTOR SPECIFICATIONS, REPLACEMENT BEARING SPECIFICATIONS, VOLTAGES OF UNIT, ETC. THIS SHALL SERVE AS A WRITTEN DATABASE DESCRIBING ALL MAINTENANCE INFORMATION FOR EACH NEW PEICE OF EQUIPMENT USED.

REV.	DATE	ITEM		
PREPARED B' ENGINEERS, CONDITIONS CONDITIONS INFORMATION	INGS ARE BASED Y BBS ARCHITEC PC. AND, THEREI AS CONSTRUCTE SHOWN ARE AS THEY MAY NO		CHITECTS AND PRESENT TH ALL EXISTING SUGGESTIV AND DETAILE	D E G E D
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BEDFORD CENTRAL SCHOOL DISTRICT PHASF 1 BOND IMPROVEMENTS	MOUNT KISCO ELEMENTARY SCHOOL TOWN OF BEDFORD / WESTCHESTER COUNTY	SECURITY VESTIBULE	NEW MECHANICAL PLAN	

DRAWING BY: GWT CHECK BY: CW

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66-01-02-06-0-006-015 DISTRICT BEDFORD CENTRAL SCHOOL DISTRICT PROJECT PHASE 1 BOND **IMPROVEMENTS**

DWG TITLE SEC VEST NEW MECH PLAN SCALE: AS NOTED DATE: NOVEMBER 1, 2022

BID PICK-UP:

FILE No: 22-225C M2.01

CABLE IS NOT ACCEPTABLE.

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEC, APPLICABLE LOCAL CODES, STATE CODES, SCHOOL WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEER'S SPECIFICATIONS.

 THE VOLTAGE CHARACTERISTIC OF EXISTING BUILDING IS 208Y/120V 3-PASE 4-WIRE THE VOLTAGE CHARACTERISTIC OF THE
- THE VOLTAGE CHARACTERISTIC OF EXISTING BUILDING IS 208Y/120V, 3-PASE, 4-WIRE. THE VOLTAGE CHARACTERISTIC OF THE PROPOSED ADDITION SHALL BE 480/277V, 3-PHASE 4-WIRE WITH 208/120V DERIVED FROM STEP DOWN TRANSFORMERS., ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS.
 THE DRAWINGS SHOW SCHEMATICALLY, THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT
- LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION, ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED.

 4. DIVISION 16 CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND
- SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS/SPECIFICATIONS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEERS ATTENTION BEFORE BID SUBMITTAL.

 5. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL LABOR SERVICE MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE
- WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL
 MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED.
 DIVISION 16 CONTRACTOR SHALL PAY ANY FEES APPLICABLE TO ELECTRICAL WORK, SUCH AS, BUT NOT LIMITED TO, THE POWER
- COMPANY, TELEPHONE COMPANY, CATV, CERTIFIED ELECTRICAL INSPECTORS, ALARM AND FIRE PROTECTION COMPANIES.

 THE DIVISION 16 CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS
- BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK.

 9. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE SCHOOL DISTRICT BUILDINGS AND GROUNDS DEPARTMENT.
- 10. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN INSPECTION CERTIFICATE AND PAY ASSOCIATED FEE. SUBMIT A PHOTOCOPY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION.
- DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN SECTION 1700 OF THE PROJECT MANUAL.
 A COMPLETE SYSTEM OF WIRING, WITH ALL FEEDERS, MAINS, AND BRANCHES AS SHOWN ON THE DRAWINGS, SHALL BE FURNISHED
- AND INSTALLED FROM THE MAIN DISTRIBUTION BOARD TO THE PANELS OUTLETS, MOTORS, AND APPURTENANCES.

 13. PROVIDE IDENTIFICATION FOR ALL PANEL AND MOTOR FEEDER CABLES IN PULL BOXES AND AT TERMINATIONS. ANY CONDUCTOR VOLTAGES HIGHER THAN 240 VOLTS SHALL BE MARKED ON DEVICES AND JUNCTION BOXES.
- 14. FURNISH AND INSTALL ALL WIRING OF ANY VOLTAGE OR PURPOSE AS SHOWN ON THE DRAWINGS.

 15. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARING COMMON NEUTRALS AMONG BUNDLED CIRCUITS IS

 SPECIFICALLY DISALLOWED LINESS OTHERWISE NOTED.
- SPECIFICALLY DISALLOWED UNLESS OTHERWISE NOTED.

 16. PULL/JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED OR AS OTHERWISE REQUIRED TO FACILITATE THE PROPER INSTALLATION OF WIRES AND CABLES. CONDUITS MAY BE INCREASED IN SIZE FOR CONSTRUCTION CONVENIENCE.
- 17. FURNISH AND INSTALL ALL DISCONNECT DEVICES AND SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED TO CONFORM WITH REQUIREMENTS.
 18. FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE
- INSTALLATION.

 19. DIVISION 16 CONTRACTOR SHALL PROVIDE TO SCHOOL 5 PERCENT SPARE LAMPS (MINIMUM QUANTITY 1) OF EACH TYPE SPECIFIED
- WITH NEW FIXTURES.

 20. PROVIDE ALL WIRING, PANEL BOARDS, SWITCHES, FUSES, EQUIPMENT, AND ALL INCIDENTAL MATERIALS REQUIRED TO SUPPLY
- TEMPORARY AND PERMANENT ELECTRICAL NEEDS FOR THE WORK INVOLVED, ALL IN ACCORDANCE WITH OSHA, LOCAL, STATE AND UNDERWRITERS REQUIREMENTS.

 21. ALL WIRING TO BE 1#12+1#12(N)+1#12(G)-3/4"C., OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. RUN BRANCH CIRCUITS IN DROPPED CEILINGS, VOIDS, & CHASES. CONDUITS MAY BE SURFACE MOUNTED IN MECHANICAL SPACES UNLESS OTHERWISE NOTED. CONDUITS IN PUBLIC AREAS SHALL BE CONCEALED IN HUNG CEILINGS, EMBEDDED IN SLAB OR MASONRY WALLS, EXCEPT WHERE SURFACE MOUNTED RACEWAY IS SPECIFIED. ALUMINUM JACKETED MC
- 22. ALL CONNECTIONS AND/OR SPLICES SHALL BE MADE ONLY IN ACCESSIBLE JUNCTION BOXES.
 23. ALL COUPLINGS AND CONNECTORS FOR USE WITH EMT SHALL BE COMPRESSION TYPE. SET SCREW TYPE OR INDENT TYPE FITTINGS
 WILL NOT BE ACCEPTED.
- WILL NOT BE ACCEPTED.

 24. ALL CONNECTIONS TO CONDUIT RUN UNDERGROUND SHALL BE MADE WATERTIGHT. ALL METALLIC CONDUIT INSTALLED IN EARTH FILL, AS WELL AS UNDERGROUND, SHALL BE PAINTED WITH (2) COATS OF ASPHALTUM PAINT OR EQUAL.
- WIRING INSTALLED IN CEILINGS SHALL BE HUNG INDEPENDENT OF CEILING SYSTEM AND SECURELY TIED TO BUILDING STEEL.
 ALL LOW VOLTAGE (FIRE ALARM, PA INTERCOM, PHONE, DATA, ETC.) WIRING INSTALLED IN OPEN AREAS SHALL BE IN METALLIC RACEWAY IN MECHANICAL AREAS, GYMNASIUMS, ART ROOMS, STOREROOMS, ETC., AND IN SURFACE MOUNTED RACEWAY IN PUBLIC AREAS. LOW VOLTAGE WIRE INSTALLED IN DROPPED CEILINGS SHALL BE BUNDLED TOGETHER AND SUPPORTED BY BUILDING STEEL.
 LOW VOLTAGE WIRE SHALL NOT BE SUPPORTED WITH BRANCH CIRCUITS OR FEEDER CIRCUITS AND SHALL NOT BE SUPPORTED BY
- CONDUIT, PIPES, ETC.. LOW VOLTAGE WIRING NOT INSTALLED IN CONDUITS, SHALL BE PLENUM RATED.

 27. CONDUITS SHALL BE SECURED IN PLACE AND PROTECTED WHERE NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION.

 28. FURNISH AND INSTALL ALL HARDWARE TO PROPERLY SUPPORT ALL CONDUITS NOT INSTALLED IN CONCRETE SLABS OR
- UNDERGROUND.
 29. ALL CONDUITS OR MC CABLE SHALL BE EQUIPPED WITH AN INSULATING/CHAFE GUARD GROMMET AT WIRE EXIT/ENTRANCE. MC
- CABLE SHALL USE MC STYLE BUSHINGS. BX OR OTHER BUSHINGS ARE SPECIFICALLY DISALLOWED.

 WHERE AN EXISTING CONDUIT OR CABLE IS REQUIRED TO BE REMOVED BUT SERVES AND EXISTING PIECE OF EQUIPMENT WHICH IS

 TO REMAIN OPERABLE. THE DIVISION AS CONTRACTOR SHALL REPOUTE SAID CONDUIT OR CABLE OR PROVIDE A NEW COURSE OF
- TO REMAIN OPERABLE, THE DIVISION 16 CONTRACTOR SHALL REROUTE SAID CONDUIT OR CABLE OR PROVIDE A NEW SOURCE OF POWER (APPROVED BY ENGINEERING) TO THIS EQUIPMENT AS A PART OF THIS CONTRACT.

 31. ALL PANELS, SWITCHES, DISCONNECT STARTERS, OR OTHER ELECTRIC SYSTEM CONTROLS SHALL BE STENCILED WITH THEIR
- APPROPRIATE DESIGNATION/FUNCTION. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED BY A PANEL SCHEDULE OR STENCIL ADJACENT TO THE CIRCUIT BREAKER.
- 32. ALL CIRCUIT BREAKERS POSITIONS IN ALL PANELS ARE SHOWN FOR ESTIMATE PURPOSES ONLY. EC IS RESPONSIBLE FOR LOAD BALANCING.
- 33. ALL DEVICES SHALL BE FASTENED IN PLACE SECURELY. GRID MOUNTING LIGHTING FIXTURES SHALL BE SECURED TO GRID WITH CLIPS LISTED FOR THE PURPOSE OR SUSPENDED FROM STRUCTURE PER NEC.
 34. WORK WHICH MUST BE DONE IN OCCUPIED AREAS SHALL BE DONE AT SUCH TIMES AS INDICATED IN THE PHASING OF
- CONSTRUCTION AND AS APPROVED BY THE SCHOOL.

 35. WHERE THE DIVISION 16 CONTRACTOR IS INSTRUCTED TO PROVIDE, INSTALL AND WIRE CIRCUIT BREAKER(S) TO AN EXISTING PANEL AND THAT PANEL DOES NOT HAVE THE ROOM TO INSTALL REQUIRED CIRCUIT BREAKERS, THE DIVISION 16 CONTRACTOR SHALL REMOVE (3) ADJACENT 1P CIRCUIT BREAKERS AND PROVIDE A 3P, 60A BREAKER IN THEIR PLACE FOR SUB FEED TO A SURFACE MOUNTED 100A,3~,4W,24 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL, EACH WITH REQUIRED CIRCUIT BREAKERS. PROVIDE (3) 1P, AMPERAGE AS BEFORE CIRCUIT BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND
- 36. SELECTED RECEPTACLES AS SHOWN ON DRAWINGS MAY BE GFI PROTECTED BY CONNECTING TO GFCI RECEPTACLE FIRST IN CIRCUIT. ALL RECEPTACLES THAT ARE PROTECTED FROM AN UPSTREAM GFCI UNIT SHALL BE VISABLY LABELED AS SUCH. GFCI RECEPTACLE SHALL BE SPEC GRADE AND RATED 20A, WITH OPERATING NOTIFICATION INDICATING LIGHT.

RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3#6+1#6(N)+1#10(G)-1"C.

- 37. ALL DEVICES ADDRESSED BY ADA REGULATIONS SHALL BE INSTALLED AT ADA COMPLIANT HEIGHT AND LOCATIONS.
 38. ALL NEW LIGHTING OR EXISTING LIGHTING HAVING SWITCHING REARRANGEMENT SHALL BE EQUIPPED WITH CODE COMPLIANT ENERGY CONSERVATION CONTROLS. SUCH CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- 39. REMOVAL OF ELECTRICAL ITEMS INCLUDES THEIR DISPOSAL. THE EXCEPTION WILL BE TO TURN OVER TO THE OWNER ITEMS, IF ANY, THEY SPECIFY TO BE RETAINED IN THEIR INVENTORY. PCB OR ASBESTOS BEARING MATERIAL SHALL BE DISPOSED OF IN
- ACCORDANCE WITH LAWS AND REGULATIONS.

 40. EC SHALL PROVIDE & WIRE WEATHERPROOF GFCI RECEPTACLES ON ALL APPLICABLE ROOFTOP UNITS AS PART OF HIS BID. SEE MECHANICAL EQUIPMENT SCHEDULES FOR UNITS WITH SERVICE RECEPTACLES FACTORY INSTALLED.
- 41. UNLESS OTHERWISE NOTED, STARTERS AND DISCONNECTS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR... COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL POWERED MECHANICAL EQUIPMENT. THE DIVISION 16 CONTRACTOR IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING FROM SOURCE TO UNIT VIA STARTERS AND DISCONNECTS. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE DIVISION 16 CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS, EQUIPMENT SCHEDULES & NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, .AND THE REMOVAL OF ANY STARTERS/DISCONNECTS NO LONGER REQUIRED.

DEMOLITION NOTES (NOT ALL APPLY):

- 1. THE ITEMS SPECIFICALLY SHOWN ON DEMOLITION DRAWING/S ARE TO BE ADDRESSED BY THE ELECTRICAL CONTRACTOR. THE ITEMS ARE TO BE TREATED AS NOTED AND RANGE FROM DIRECT REMOVAL AND DISPOSAL, OR REMOVAL, STORAGE, AND REINSTALLATION/RELOCATION, OR TEMPORARY REMOVE/STORAGE, AND REINSTALLATION IN SAME LOCATION.
- MANY OTHER ELECTRIC ITEMS EXIST THAT ARE NOT SHOWN INCLUDE, BUT ARE NOT LIMITED TO, SWITCHES, RECEPTACLE, FLOOR OUTLETS, LOW VOLTAGE JACKS, LOW VOLTAGE DEVICES AND WIRING, TELEPHONE PUNCH DOWN BLOCKS, AND OUT OF SERVICE ITEMS. ALL SUCH ITEMS SHALL BE PERMANENTLY DE-ENERGIZED, DISCONNECTED, AND OTHERWISE MADE SAFE FOR DEMOLITION BY NON-ELECTRIC DEMOLITION WORKERS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL ELECTRIC DEVICES, OF ANY VOLTAGE OR FUNCTION, THAT ARE TO BE DEMOLISHED ARE SAFE AND ADVISE THE DEMOLITION CONTRACTOR WHEN THIS IS SO.
- 3. AFTER THE ELECTRICAL CONTRACTOR HAS DISCONNECTED ELECTRIC SUPPLIES TO ITEMS TO BE DEMOLISHED, HE SHALL ADVISE THE GENERAL CONTRACTOR OF ANY ELECTRIC ITEMS TO BE RETAINED FOR FUTURE USE AND THEREFOR NOT TO BE DEMOLISHED. THE GENERAL CONTRACTOR SHALL THEN PERFORM ALL WORK ZONE DEMOLITION. THIS MATTER APPLIES TO ALL ELECTRIC ITEMS, OF ANY VOLTAGE OR PURPOSE.
- 4. THE SPECIAL/SPECIFIC ITEMS SHOWN ON THE DRAWING FOR ELECTRICAL CONTRACTOR TO ACT ON WERE FOUND BY SURVEY. NUMEROUS LOCATIONS WERE BLOCKED BY FURNITURE, ETC. AND ADDITIONAL EQUAL TYPE ITEMS MAY BE PRESENT. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THIS IN HIS BID PRICE AND ATTEND TO THOSE EQUAL OR SIMILAR DEVICES AS MAY BE DISCOVERED.
- 5. REMOVAL ITEMS THAT ARE LISTED AS TO BE TURNED OVER TO OWNER'S INVENTORY SHALL BE DISCUSSED WITH THE DISTRICT BUILDINGS AND GROUNDS MANAGER. THOSE ITEMS THAT THE OWNER DECLINES SHALL THEN BE DISPOSED OF BY THE CONTRACTOR IN THE MANOR OF OTHER PERMANENT REMOVALS. ANY PCB BEARING FLUORESCENT FIXTURES SHALL BE DISPOSED OF PER REGULATIONS.
- 6. RETAIN EXISTING RECEPTACLES IN WALLS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. RETAIN LIGHT SWITCH LOCATIONS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. INSTALL BLANKING PLATE COVERS OVER THE UNUSED PORTION OF GANG BOXES HAVING MORE GANG POSITIONS THAN NEEDED FOR NEW SWITCHES.
- 7. LIGHT FIXTURES ARE TO BE REMOVED AS GENERAL, NON ELECTRIC, CONTRACTOR DEMOLITION. DIVISION 16 CONTRACTOR RESPONSIBLE TO SAFE OFF LIGHTUING CIRCUITS FOR REMOVAL BY OTHERS. NO SPECIFIC QUANTITIES OR LOCATIONS ARE SHOWN. RETURN WHATEVER QUANTITY, IF ANY, OF THESE TO OWNER'S INVENTORY IF HE SO SPECIFIES OR THEY ARE OTHERWISE TO BE DISPOSED OF. ELECTRICAL CONTRACTOR SHALL EXAMINE FIXTURES FOR PRESENCE OF PCB'S AND SPECIAL
- THE ELECTRICAL CONTRACTOR SHALL COVER ALL BACK BOXES IN THE WALL THAT BECOME EXPOSED DUE TO DEVICE REMOVALS.
 THIS INSTRUCTION ALSO APPLIES TO EXPOSED ELECTRICAL BACK BOXES AS MAY EXIST AT THE SITE PRIOR TO THIS PROJECT.
 THE COVER SHALL BE BRUSHED ALUMINUM WITH CHAMFERED EDGES AND COVER THE HOLE COMPLETELY WITH AT LEAST 3/4"
 EXTRA MARGIN ON ALL SIDES. MOUNT THE COVER WITH SCREWS TO MATCH THE ORIGINAL PATTERN.
- 9. IT IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRIC SUPPLIES, OF VARIOUS VOLTAGES AND PURPOSES, TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRIC SOURCES WHEN THE NEW STRUCTURE IS BUILT. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. PROVIDE ALL REQUIRED CIRCUIT EXTENSIONS AS REQUIRED TO RESTORE SERVICE TO DEVICES. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NOMINALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTOR'S
- 10. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES, FROM DAMAGES DURING CONSTRUCTION, WHICH ARE EITHER INDICATED TO REMAIN, AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO: SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLE, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY DAMAGED DEVICES AT NO ADDITIONAL COST TO OWNER.
- ALL SYSTEM ASSOCIATED WITH THE DEVICES SCHEDULED TO BE REMOVED, STORED AND PROTECTED SHALL BE TESTED BY THE MANUFACTURER'S CERTIFIED TESTING VENDOR PRIOR TO ANY DEMOLITION ACTIVITY. ANY DEVICE WHICH FAILS THE TEST SHALL BE REPLACED WITH A FORM, FIT AND FUNCTION COMPONENT PER UNIT PRICES, AND SUCH DEVICES ARE NOT INCLUDED IN THIS RESPONSIBILITY STATEMENT, BUT ALSO SUCH INSTALLATION SHALL BE IN THE ELECTRICAL CONTRACTOR'S BASE BID. THE ELECTRICAL CONTRACTOR SHALL RE-TEST ALL SUCH SYSTEM COMPONENTS BY A MANUFACTURER CERTIFIED TESTING VENDOR OF SUCH SYSTEM OF ALL PREVIOUSLY TESTED SYSTEM COMPONENTS AFTER ALL WORK BY ALL TRADES HAS BEEN COMPLETED, AND ALL SYSTEM COMPONENTS HAVE BEEN INSTALLED. ANY COMPONENT WHICH FAILS SHALL BE REPLACED, AND PROGRAMMED IF NECESSARY BY THE ELECTRICAL CONTRACTOR. ALL SUCH REPLACEMENT AND PROGRAMMING COSTS SHALL BE ELECTRICAL CONTRACTOR'S RESPONSIBILITY. ALL COSTS ASSOCIATED WITH THE TESTING OF AFFECTED SYSTEM SUCH AS BUT NOT LIMITED TO FIRE ALARM, PUBLIC ADDRESS, INTERCOM, TELEPHONE, AND SECURITY SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL EQUIPMENT, DEVICES, WIRING AND THEIR ASSOCIATED MATERIAL SPECIFIED TO REMAIN, WHICH IS NOT STORED AND PROTECTED, SHALL BE PROTECTED DURING THE DEMOLITION ACTIVITIES, AND ALL TRADES SHALL BE INFORMED OF SUCH COMPONENTS. ANY OF SUCH COMPONENTS WHICH BECOME DAMAGED DURING DEMOLITION SHALL BE REPLACED FORM, FIT AND FUNCTION BY THE ELECTRICAL CONTRACTOR AT HIS EXPENSE.

ABBREVIATIONS

E, EX	EXISTING
ETR	EXISTING TO REMAIN
DOEGLI	

- PSEGLI PSE&G LONG ISLAND (UTILITY CO.)

 SM, S.M. SURFACE MOUNTED
- U.O.N. UNLESS OTHERWISE NOTED
- EC, E.C. ELECTRICAL CONTRACTOR
- GC, G.C. GENERAL CONTRACTOR
- MC, M.C. MECHANICAL CONTRACTOR
- PC, P.C. PLUMBING CONTRACTOR

 TYP. TYPICAL

REQ'D REQUIR

- O.C. ON CENTER
- CKT CIRCUIT
- AFF AWAY FROM FLOOR
- CB CIRCUIT BREAKER
 REC. RECEPTACLE
- ACT ABOVE COUNTERTOP

TEMPORARY POWER CONSTRUCTION NOTES: (NOT ALL APPLY)

- 1. THE DIVISION 16 CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHT IN THE NEW AREAS 'D', AND 'E' AND THE RECONSTRUCTED AREAS OF THE EXISTING BUILDING.
- 2. ALL TEMPORARY POWER PANELS AND FUSED SWITCHES OUTSIDE SHALL BE NEMA 3R CONSTRUCTION AND LOCKABLE. ALL OUTSIDE RECEPTACLES SHALL BE WATERPROOF AND HAVE A COVER THAT ENCLOSES THE PLUGGED IN CORDS WHILE IN SERVICE AS INTERMATIC WP120C. NON-WATERPROOF GEAR IN A HOUSING IS NOT ACCEPTABLE.
- ALL RECEPTACLES SHALL BE GFCI PROTECTED AND MOUNTED 3'-0" ABOVE FINISHED FLOOR. PROVIDE WORK BLOCKING AS REQUIRED. ALL RECEPTACLES OUTLETS SHALL BE 2 GANG DOUBLE DUPLEX.
 TEMPORARY LIGHTING SHALL BE CONSTRUCTED OF SINGLE AND DOUBLE 100 WATT CLEAR INCANDESCENT LAMPS, OR
- EQUIVALENT, AND WATERPROOF RUBBER SOCKETS, SPLICED WITH WATERPROOF CONNECTORS ON FESTOONED ROMEX-TYPE WIRE. ADEQUACY OF ALL TEMPORARY LIGHTING CONFIGURATIONS SHALL BE AS DETERMINED BY THE CONSTRUCTION MANAGER. PRE ASSEMBLED TEMPORARY LIGHTING IS DISALLOWED. TAPS AND SPLICES SHALL BE MADE WITH SCOTCH LOCK CONNECTORS, RUBBER TAPE, AND THEM PVC COATED. THE CONNECTORS SHALL BE FILLED WITH PENETROX. A PLASTIC SHAPE ON CAGE/GUARD SHALL PROTECT EACH SOCKET AND LAMP. NOMINAL SPACING BETWEEN LAMP CLUSTER IS 16 FEET. MOUNT LIGHTS EIGHT FEET ABOVE FINISHED FLOOR IN TYPICAL LOCATIONS AND 10 FEET ABOVE FINISHED FLOOR IN CORRIDOR. PROVIDE NIGHT LIGHTING CIRCUIT, WHICH SHALL OPERATE CONTINUOUSLY. ALL LAMPS SHALL BE 130 VOLT, ROUGH SERVICE
- RATED. TEMPORARY LIGHTS SHALL BE TO OSHA STANDARDS. ALTERNATE FIXTURES SHALL BE 400W CONSTRUCTION SITE STYLE
 PROVIDE HOOK UPS TO JOB TRAILER FOR ALL TRADES. USE SITE POWER AS SOURCE. OWNER PAYS FOR POWER CONSUMPTION.
 WIRING SHALL BE 1#12+1#12(N)+1#12(G) ROMEX STYLE. CIRCUITS SHALL BE OPERATED A MAXIMUM OF 15 AMPS OR 1800 WATTS
 (18 100 WATT LAMPS), SWITCHING SHALL BE DONE VIA THE SWITCH RATED 20A, 10 CIRCUIT BREAKERS. SEGREGATE THE NIGHT
- LIGHTS AND RECEPTACLES IN THE LOWER PART OF THE POWER PANELS AND LABEL THESE "DO NOT TURN OFF". CIRCUIT HOME RUNS CONDUCTORS SHALL INCREASE ONE WIRE SIZE EVERY 100 FEET I.E. #10 CONDUCTORS. WIRING WITHIN THE ROOM AREA SHALL BE MADE WITH #12 CONDUCTORS.
- THE DIVISION 16 CONTRACTOR SHALL PREPARE EACH PANEL SCHEDULE.
 A LENGTH OF GREENFIELD FLEX CONDUIT AT PINCH POINTS SHALL PROTECT ALL WIRE, SUCH AS WHERE WIRING PASSED THROUGH A DOORWAY. WIRING SHALL BE SUPPORTED FROM ANCHORS INSTALLED BY THE DIVISION 16 CONTRACTOR FOR THE
- PURPOSE OF ATTACHMENT TO PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.

 10. ALL WIRING SHALL BE INSTALLED SO AS NOT TO CAUSE TRIPPING HAZARD OR SIMILAR OBSTRUCTION.

 11. POWER PANELS SHALL BE EQUIPPED WITH 42 1P, 20A CIRCUIT BREAKERS AND ALL CIRCUIT BREAKERS NOT IN SERVICE SHALL BE
- LABELED SPARE. AT THE OWNERS OPTION PANEL AND CIRCUIT BREAKERS SHALL BE TURNED OVER TO OWNERS INVENTORY AT CONCLUSION OF THE PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.

 12. THE DIVISION 16 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF TEMPORARY LIGHTING AND POWER SYSTEMS DURING, AND AFTER INSTALLATION, UP TO THE TIME OF BENEFICIAL OCCUPANCY, AND TIME OF REMOVAL. REPAIRS SHALL BE MADE WITHIN 24 HOURS OF THE REPORTED OUTAGE, OR AS DIRECTED BY THE CONSTRUCTION MANAGER. DIVISION 16

CONTRACTOR SHALL COMMENCE WORK ON THIS PROJECT WITH A GROSS OF SPARE CONSTRUCTION BULBS AT HIS IMMEDIATE

- 13. REMOVAL OF THE TEMPORARY POWER AND LIGHTING SHALL BE THE RESPONSIBILITY OF THE DIVISION 16 CONTRACTOR WHEN THE PROJECT IS COMPLETE. ALL EQUIPMENT, WIRING SUPPORTS, CONNECTORS, ETC. SHALL BE REMOVED FROM OWNER'S PROPERTY AFTER PROJECT IS COMPLETE. INCLUDE STATEMENT OF REMOVAL WITHIN CLOSE OUT DOCUMENTS, REQUIRED FOR FINAL PAYMENT.
- PROVIDE THE TEMPORARY ELECTRICAL SERVICE TO THE CONSTRUCTION TRAILERS SHALL BE AS PER USERS REQUIREMENTS
 OF THE TRADES. TEMPORARY SERVICES ARE REQUIRED PER SPECIAL CONDITIONS OF THE PROJECT.
 ALL TEMPORARY POWER WORK SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER SPECIAL EMPHASIS SHALL BE
 EXERCISED FOR TERRAZZO MACHINES AND ITS ELECTRICAL REQUIREMENT.

FIRE STOP NOTES:

1. ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED.

2. THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, 6P-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-635 TROWEL ABLE COMPOUND, AS

3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS SPECIFIED OR <u>EQUAL</u>.

4. FIRE STOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS AND STATEMENT FROM MANUFACTURER THAT THEY MEET OR EXCEED THE PRODUCTS SPECIFIED

5. ALL SYSTEMS SHALL HAVE THEIR OWN SLEEVE THROUGH FIRE RATED WALLS. IE FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA, POWER AND LIGHTING.

	ELECTRICAL SYMBOL LEGEND
<u>(S)</u>	SMOKE DETECTOR - CEILING MOUNTED
S	SPEAKER - CEILING MOUNTED
S	SPEAKER - WALL MOUNTED
<u>©</u>	CLOCK - WALL MOUNTED
4	TELEPHONE VOIP CONNCTION
FACP	FIRE ALARM CONTROL PANEL
R	FIRE ALARM RELAY

SIMILAR SYMBOLS USED ON DEMO PLANS. ALL ITEMS SHOWN ON DEMO PLAN TO BE REMOVED ENTIRELY UNLESS OTHERWISE NOTED.

LINE DESIGNATIONS

DEVICES TO BE REMOVED. PULL BACK ALL ASSOCIATED CONDUIT AND WIRING AND REMOVE UNLESS OTHERWISE NOTED ON THE PLANS

EXISTING TO REMAIN DEVICES

NEW DEVICES

REV. DATE ITEM

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TIME. ALL EXISTING CONDITIONS SHOWN ARE REPRESENTED
AS SUGGESTIVE INFORMATION AS THEY MAY NOT HAVE BEEN
BUILT AND DETAILED PER THE ORIGINAL DOCUMENTS OR PER
THE OWNER'S INFORMATION.

PROJECT BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 1 - BOND IMPROVEMENTS

MOUNT KISCO ELEMENTARY SCHOOL

47 W HYATT AVE, MT KISCO, NY 10549

DWGTITLE

GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

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66-01-02-06-0-006-015

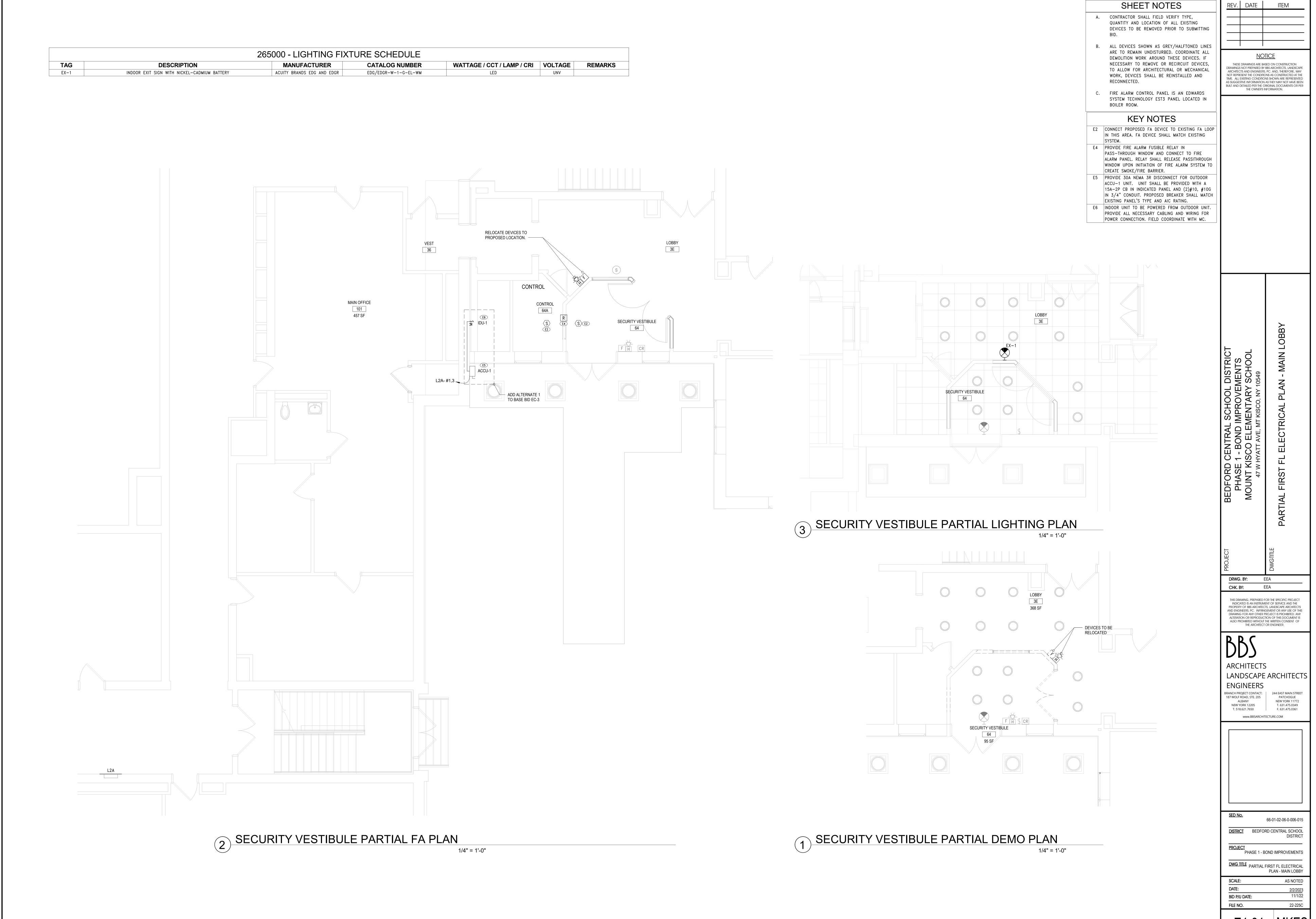
DISTRICT BEDFORD CENTRAL SCHOOL
DISTRICT

PHASE 1 - BOND IMPROVEMENTS

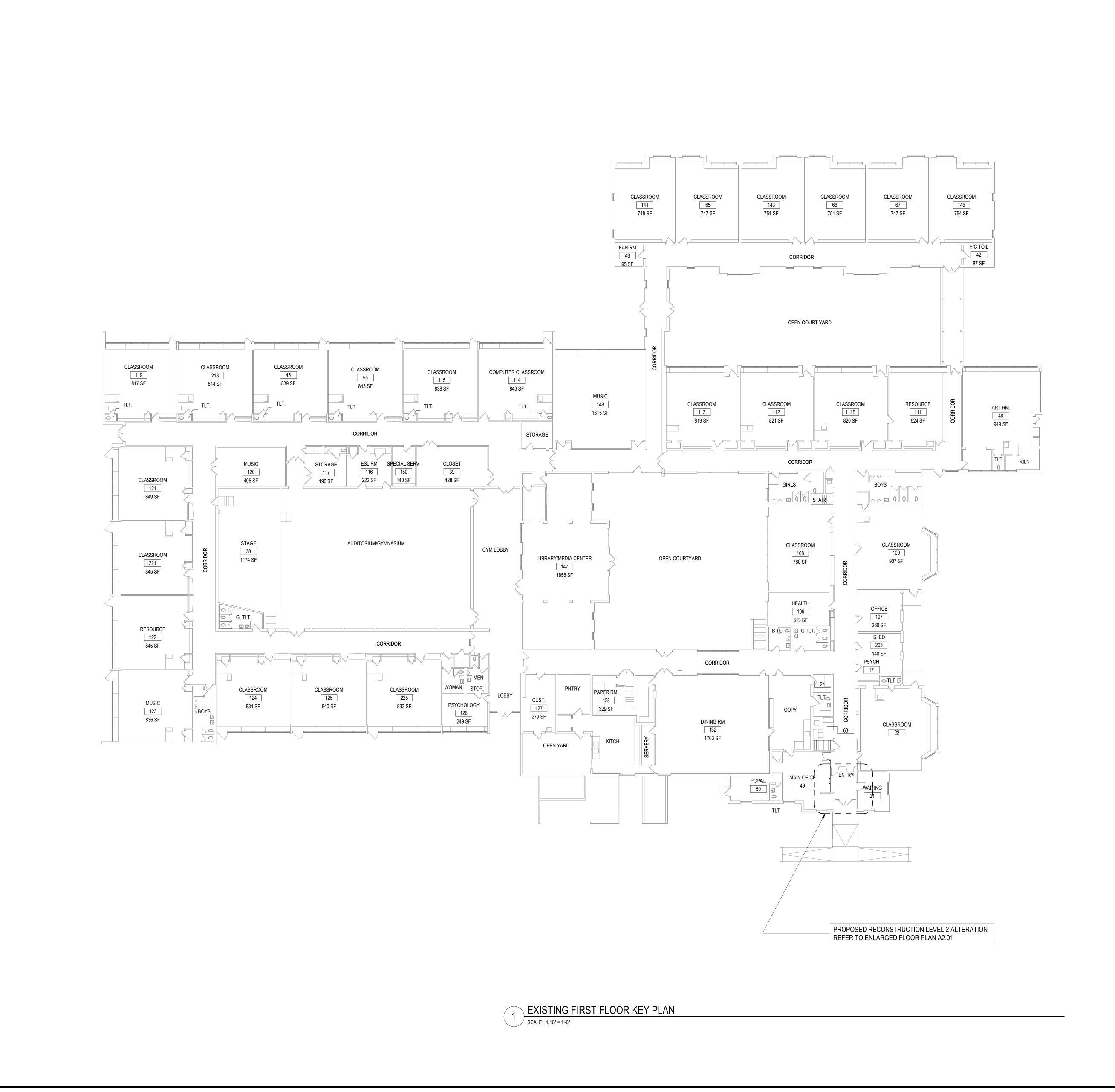
DWG TITLE
GENERAL NOTES, SYMBOLS
AND ABBREVIATIONS

 BID P/U DATE:
 11/1/22

 FILE NO.
 22-225C



REV. DATE ITEM



STORAGE

02 534 SF

BOILER RM.

03

413 SF

UNEXCAVATED

3 EXISTING LOWER LEVEL PLAN

SCALE: 1/16" = 1'-0"

REV. DATE ITEM THESE DRAWINGS ARE BASED ON CONSTRUCTION THESE DRAWINGS ARE BASED ON CONSTRUCTION
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THE OWNER'S INFORMATION. ORIGINAL DOCUMENTS: KEY PLAN DRWG. BY: CHK. BY: GEO THIS DRAWING, PREPARED FOR THE SPECIFIC PROJECT INDICATED IS AN INSTRUMENT OF SERVICE AND THE PROPERTY OF BBS ARCHITECTS, LANDSCAPE ARCHITECTS AND ENGINEERS, PC. INFRINGEMENT OR ANY USE OF THIS DRAWING FOR ANY OTHER PROJECT IS PROHIBITED. ANY ALTERATION OR REPRODUCTION OF THIS DOCUMENT IS ALSO PROHIBITED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT OR ENGINEER. ARCHITECTS LANDSCAPE ARCHITECTS **ENGINEERS** 244 EAST MAIN STREET 187 WOLF ROAD, STE. 205
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A0.01 of BVES

PHASE 1 - BOND IMPROVEMENTS

FIRST FLOOR KEY PLAN

AS NOTED 11/1/22 02/02/23

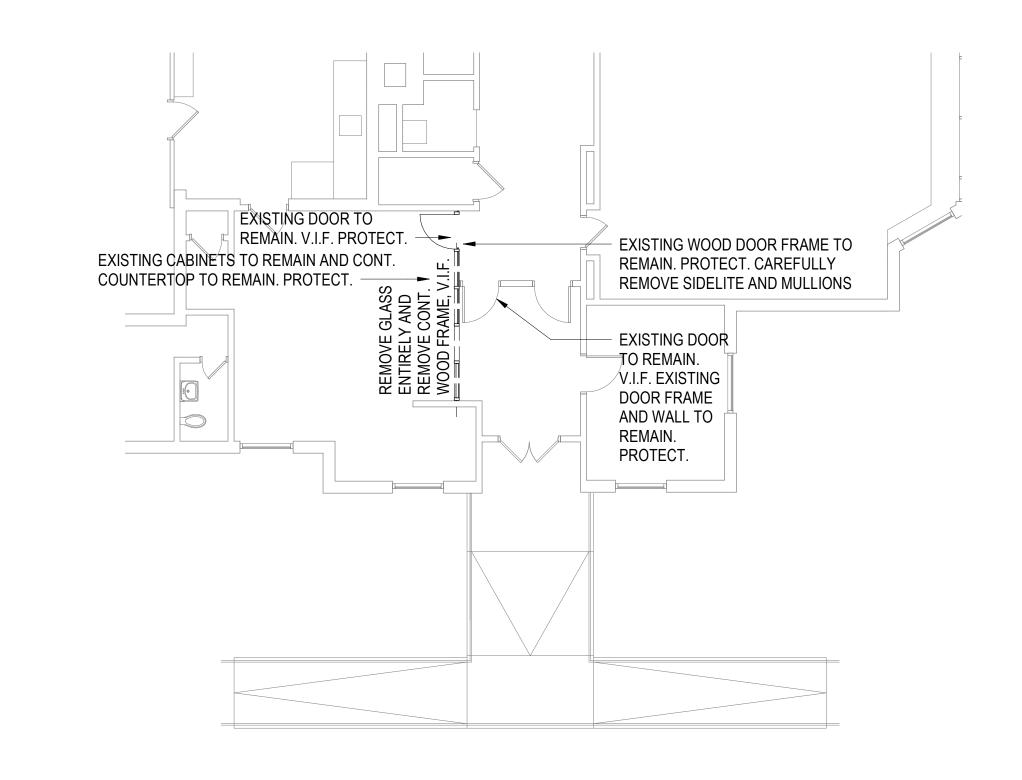
PROJECT

DWG TITLE

SCALE:

DATE:

BID P/U DATE:



1 DEMO PLAN

GENERAL REMOVAL NOTES:

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL DEMOLITION AND REMOVAL, UNLESS NOTED OTHERWISE. MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS SHALL BE RESPONSIBLE FOR ALL DISCONNECTS. G.C. TO COORDINATE DEMOLITION WITH M.C., P.C. AND E.C. REFER TO M.E.P. SERIES DEMOLITION DRAWINGS FOR ADDITIONAL INFORMATION AND DEMOLITION SCOPE BY GENERAL CONTRACTOR NOT SHOWN THIS DWG. TYPICAL FOR ALL AREAS OF INTERIOR DEMOLITION AND/OR RECONSTRUCTION.

FRAME) AND ALL FLOORS (CONCRETE) AS MAY BE REQUIRED FOR THE P.C. TO PERFORM THEIR WORK. THE G.C. SHALL BE RESPONSIBLE TO TEMPORARILY SHORE-UP THE WALLS AND CLOSE UP ALL WALLS AND FLOORS IN SIZE/COURSE THICKNESS AND TYPES TO MATCH EXIST. ADJACENT.

3. NOTED CASEWORK AND FURNITURE REMOVALS MAY BE BASE CABINETS, COUNTERS, WALL

2. IT SHALL BE NOTED THAT G.C. SHALL BE RESPONSIBLE TO OPEN UP ALL WALLS (CMU OR

NOTED CASEWORK AND FURNITURE REMOVALS MAY BE BASE CABINETS, COUNTERS, WALL
CABINETS, SHELVING, BUILT IN CASEWORK, INSTRUMENT STORAGE CABINETS OR APPLIANCES.
OWNER TO REMOVE ALL LOOSE FURNISHINGS AND STORED MATERIALS PRIOR TO START OF
WORK.

4. G.C. SHALL REMOVE ALL V.A.T., MASTIC AND WALL BASE, AND/OR LEAD CONTAINING CONSTRUCTION MATERIALS. REFER TO ASBESTOS/LEAD ABATEMENT PLAN AND INSPECTION/TEST RESULTS FOR ADDITIONAL INFORMATION.

INSPECTION/TEST RESULTS FOR ADDITIONAL INFORMATION.

5. ALL REMOVALS OF EXISTING FIXTURES WHICH ARE AFFIXED TO V.A.T. SHALL BE TREATED AS AN ASBESTOS ABATEMENT ITEM AND SHALL CONFORM TO REMOVAL PROCEDURES AND REQUIREMENTS.

6. G.C. SHALL SAWCUT WALLS, FLOORS, ROOF, ETC. UNLESS OTHERWISE NOTED. REFER TO M.E.P. DRAWINGS FOR LOCATIONS, DESCRIPTIONS AND RESPONSIBILITIES.

7. G.C. SHALL PATCH, REPLACE, OR REPAIR DAMAGE CAUSED TO EXIST. FLOOR, WALLS, ROOF, ETC. SHOWN TO REMAIN AS A RESULT OF DEMOLITION TO PRIOR CONDITION OR MATCH ADJACENT NEW CONSTRUCTION.

8. G.C. SHALL VERIFY ALL REMOVALS W/ OWNERS REPRESENTATIVE/OWNER, AND M.C., P.C., OR E.C. PRIOR TO COMMENCEMENT.

9. NOTED FLOORING REMOVALS MAY BE V.C.T., CARPET OR TERRAZZO. NOTED CEILING REMOVALS MAY BE CONCEALED SPLINE SYSTEM, ACOUSTICAL TILE/GRID SYSTEM, SOFFITS AND FRAMING, OR PLASTER W/ SUPPORT FRAMING. NOTED WALL REMOVALS MAY BE GYP. BD. W/ FRAMING, CMU, CMU W/ APPLIED FINISHES, BRICK, OPERABLE PARTITIONS W/ TRACK/ SUPPORTS AND SHALL INCLUDE ALL DOORS AND FRAMES WHERE SHOWN. UNLESS OTHERWISE NOTED, ALL

EXISTING WALL MOUNTED CHALK BD., WHITE BD. OR TACK BD. AND MASTIC/ADHESIVE SHALL BE

10. IN ALL AREAS OF FLOORING REMOVALS - THE G.C. SHALL BE RESPONSIBLE TO COMPLETELY FLASH PATCH THE ENTIRE FLOOR SURFACE. IN PREPARATION OF INSTALLATION OF NEW FINISHED FLOORING. G.C. SHALL FLOOR SURFACES WITH "ARDEX" SD-F FEATHER FINISH OR APPROVED EQUAL. FLOOR SURFACES SHALL BE SMOOTH, FREE OF DEPRESSION, BUMPS, UNEVENNESS - LEVEL TO A TOLERANCE OF A MINIMUM OF +/- 1/8" AND OR AS SPECIFIED BY THE FLOORING MANUFACTURERS FLOORING INSTALLATION SPECIFICATIONS. THE G.C. SHALL BE RESPONSIBLE TO MAKE ANY NECESSARY CORRECTIONS TO THE FLOOR SUBSTRATE AS MAY BE DEEMED NECESSARY BY THE ARCHITECT, AT NO ADDITIONAL COST TO THE OWNER.

DEMOLITION LEGEND:

EXISTING CONSTRUCTION TO BE REMOVED
(PATCH ALL SURFACES)

ROOM ROOM NAME AND NUMBER

DEMOLITION KEY NOTES:

(COORDINATE WITH ASBESTOS, LEAD AND PCB ABATEMENT TESTING REPORTS, ATTACHED TO THE PROJECT MANUAL, PRIOR TO COMMENCE ANY REMOVALS)

- 1 REMOVE EXISTING FLOOR/BASE SYSTEMS IN THEIR ENTIRETY PREP SUBFLOOR/WALL TO ACCEPT NEW FINISHES.

 2 REMOVE EXISTING CEILING SYSTEMS IN THEIR ENTIRETY COORDINATE DISCONNECTS
- W/MEP CONTRACTORS.

 REMOVE EXISTING ROOF SYSTEM AND STRUCTURAL SUPPORTS IN THEIR ENTIRETY -
- 4 REMOVE EXISTING CONCRETE SLAB AND FOUNDATION BELOW.

COORDINATE DISCONNECTS W/MEP CONTRACTORS.

- 5 REMOVE EXISTING SELECTED WALL IN THEIR ENTIRETY PATCH/REPAIR/RESTORE REMAINING WALL TO ACCEPT NEW FINISHES COORDINATE W/MEP CONTRACTORS FOR DISCONNECTS
- REMOVE EXISTING PORTION OF SELECTED WALL AS REQUIRED FOR NEW DOOR OR WINDOW AND APPLICABLE FRAME SYSTEM PATCH/REPAIR/RESTORE REMAINING WALL TO ACCEPT NEW FINISHES COORDINATE W/MEP CONTRACTORS FOR DISCONNECTS
- 6 REMOVE EXISTING WINDOW & FRAMES IN THEIR ENTIRETY PATCH/REPAIR/RESTORE WALL TO ACCEPT NEW FINISHES.
- 7 REMOVE EXISTING DOOR & FRAMES IN THEIR ENTIRETY PATCH/REPAIR/RESTORE WALL TO ACCEPT NEW FINISHES.
- # INDICATES HAZARDOUS CONTAINING MATERIALS. REVIEW ABATEMENT REPORTS FOR ADDITIONAL INFO.

GENERAL ABATEMENT NOTES

ALL LEAD, ASBESTOS AND/OR PCB REMOVAL BY G.C. THE CONTRACTOR SHALL PERFORM A SITE INSPECTION PRIOR TO SUBMITTING A BID TO REVIEW AND QUANTIFY ALL ASBESTOS, LEAD and/or PCB CONTAINING CONSTRUCTION MATERIALS TO BE REMOVED OR AFFECTED BY THE PROPOSED SCOPE OF WORK.

2. REFER TO ASBESTOS, LEAD AND PCB CONSTRUCTION NOTES THIS DRAWING FOR ADDITIONAL

INFORMATION.

3. REFER TO SPECIFICATIONS - INFORMATION TO BIDDERS FOR LEAD / ASBESTOS INSPECTION

AND TESTING REPORTS FOR ADDITIONAL INFORMATION.

4. EACH CONTRACTOR PERFORMING WORK WITHIN OR ADJACENT TO ASBESTOS CONTAINING CONSTRUCTION MATERIALS SHALL EXERCISE EXTREME CAUTION TO NOT DAMAGE OR DISTURB EXISTING MATERIALS TO REMAIN. EACH CONTRACTOR SHALL BE / OBTAIN OSHA ASBESTOS TRAINING CERTIFIED TO PERFORM SPECIFIED WORK IN OR ADJACENT TO CONTAMINATED SPECIFICATIONS. EACH CONTRACTOR IS RESPONSIBLE FOR PROPER DISPOSABLE CLOTHING AND/OR MASKS IF REQUIRED

ASBESTOS, LEAD, AND PCB NOTES

1. ALL CONTRACTORS SHALL BE ADVISED THAT THE SCHOOL DISTRICT HAS SOLICITED AN INDEPENDENT TESTING COMPANY TO INSPECT AND TEST ALL AREAS OF THE EXISTING BUILDING WHICH ARE SCHEDULED TO BE DISTURBED DURING CONSTRUCTION FOR THE PRESENCE OF ASBESTOS, LEAD AND /OR PCB CONTAINING CONSTRUCTION MATERIALS.

2. RESULTS OF THE INSPECTIONS AND TESTING INDICATE THAT THE EXISTING BUILDING HAS TESTED POSITIVE FOR THE PRESENCE OF ASBESTOS, LEAD AND/OR PCB CONTAINING CONSTRUCTION MATERIALS. REFER TO SPECIFICATIONS FOR DESCRIPTION OF LOCATION, MATERIALS AND SAMPLE NUMBERS.

3. ALL DISTURBANCE, REMOVAL OR DEMOLITION WORK TO THESE IDENTIFIED AREAS MUST BE

PERFORMED IN CONFORMANCE WITH THE GUIDELINES AS OUTLINED IN THE PROJECT MANUAL AND APPLICABLE LOCAL, STATE AND/OR FEDERAL REGULATIONS

FLUORESCENT BULB NOTES

ALL EXISTING FLUORESCENT BULBS TO BE REMOVED SHALL BE CONSIDERED HAZARDOUS WASTE AND SHOULD BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC) & UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA) RULES, REGULATIONS & GUIDELINES.

ASBESTOS KEY NOTES

A AREAS INDICATED: ASBESTOS CONTAINING DEBRIS IN CRAWL SPACE.

REFER TO PRE CONSTRUCTION SURVEY, BULK SAMPLING AND ANALYSIS OF SUSPECT
ASBESTOS CONTAINING MATERIALS (INFORMATION AVAILABLE TO BIDDERS) FOR ASSUMED
ASBESTOS CONTAINING CONSTRUCTION MATERIALS NOT IDENTIFIED BY KEYNOTES WHICH
MAYBE SHOWN AS DEMOLITION OR POTENTIALLY DISTURBED AS A RESULT OF THE PROPOSED

LEAD CONTAINING KEY NOTES

(LCP) REMOVE FROM THE AREA INDICATED: LEAD CONTAINING PAINT. (REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION)

DESIGNATED KEY NOTES INDICATE MATERIALS TO BE REMOVED AND PROPERLY DISPOSED OF UNDER THIS PROJECT. REFER TO THE PRECONSTRUCTION LEAD MATERIALS INSPECTION AND SAMPLING REPORT (INFORMATION AVAILABLE TO BIDDERS) FOR LEAD CONTAINING CONSTRUCTION MATERIALS TO REMAIN OR POTENTIALLY DISTURBED AS A RESULT OF THE PROPOSED RENOVATIONS.

REV. DATE ITEM

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ORIGINAL DOCUMENTS:

DRWG. BY: ED CHK. BY: GEO	BEDFORD CENTRAL SCHOOL DISTRICT PHASE 1 - BOND IMPROVEMENTS BEDFORD VILLAGE ELEMENTARY SCHOOL 45 COURT RD, BEDFORD, NY 10506	DEMOLITION PLAN
	PROJECT	DWGTITLE
CHK. BY: GEO	-	
	CHK. BY:	GEO

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66-01-02-06-0-002-016

DISTRICT

BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT

PHASE 1 - BOND IMPROVEMENTS

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 11/1/22

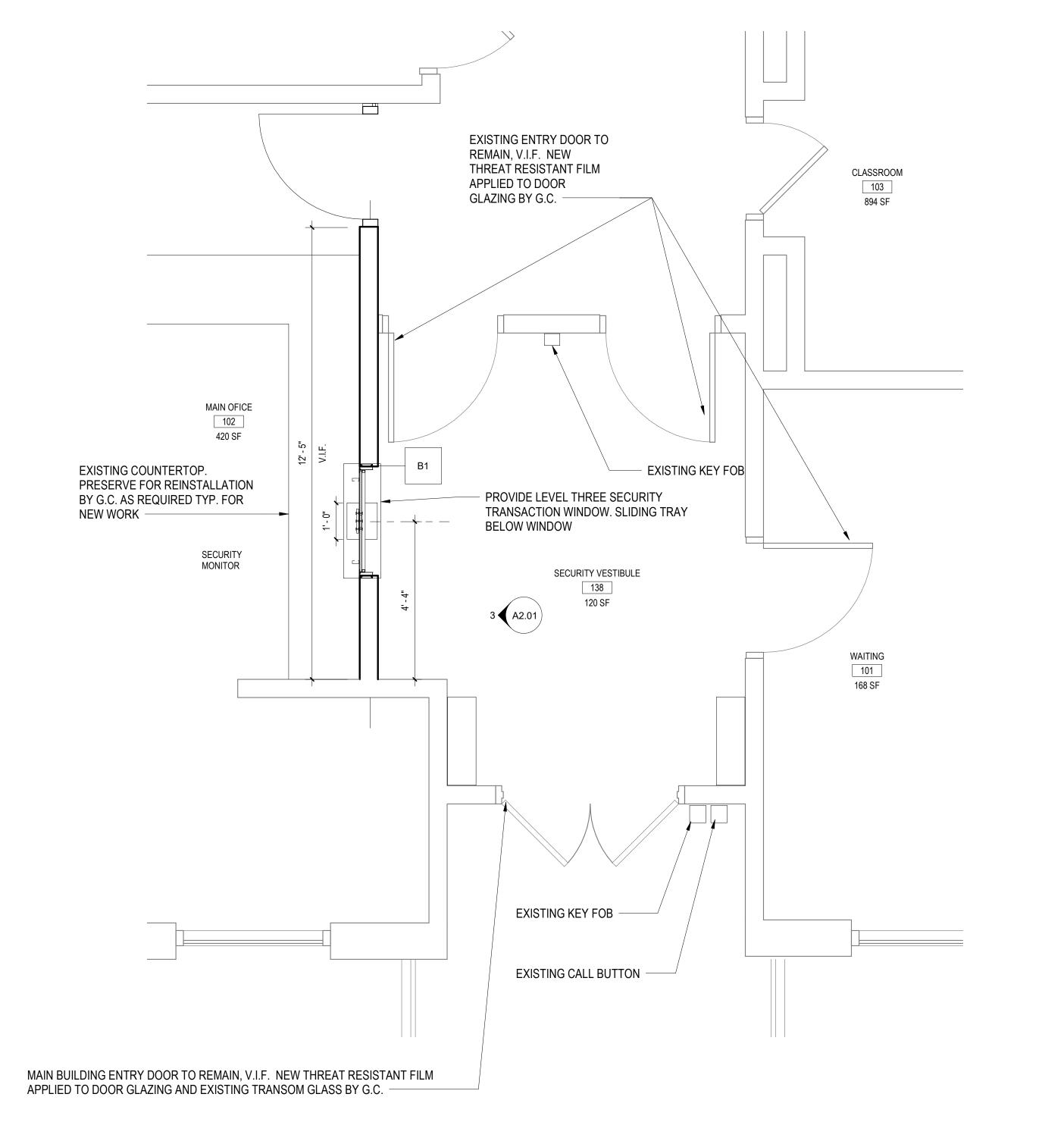
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DEMOLITION PLAN

DWG TITLE

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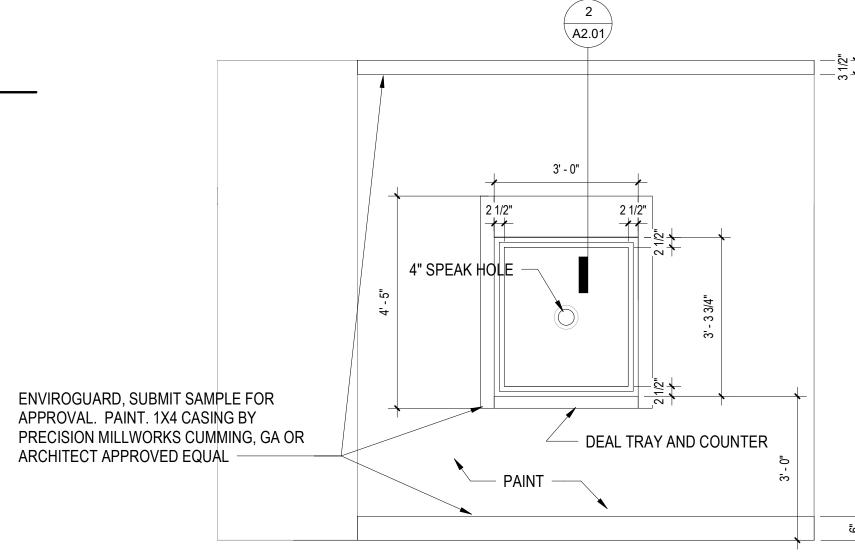


PROPOSED PLAN

SCALE: 1/2" = 1'-0"

MODIFY EXISTING CEILING GRID AS REQUIRED FOR NEW FIRE SHUTTER BY G.C. PAINT. INTERIOR PRESSURE-TREATED
FIIRE-RETARDANT WOOD
BLOCKING. PAINT. FLEXIBLE SEALANT ALL AROUND STUD PARTITION REFER TO ENLARGED FLOOR PLAN FOR ADDITN'L INFO. NOT SHOWN HERE - CFMF BOX HEADER BY G.C. 45 MIN. FIRE SHUTTER -TRANSACTION WINDOW STAINLESS STEEL BOLTS FOR LEXAN SECURITY SPEAK THRU VESTIBULE □ EXISTING COUNTERTOP EXISTING FINISH FLOOR. PROTECT.





3 SECURITY VESTIBULE ELEVATION
SCALE: 1/2" = 1'-0"

INTERIOR FINISH MATERIALS SHALL BE CLASSIFIED, IN ACCORDANCE WITH RECOGNIZED STANDARD TEST ASTM E-84, NFPA-255 AND SHOULD HAVE A FLAME SPREAD 0-25; ANY MATERIAL CLASSIFIED AT 25 OR LESS, AND ANY ELEMENT THEREOF WHICH, WHEN SO TESTED, SHALL NOT CONTINUE TO PROPOGATE FIRE. REGARLESS OF THE FLAME SPREAD CLASSIFICATION, NO MATERIAL HAVING A SMOKE-DECELOPED RATING OF 450 OR MORE SHALL BE USED.

ARCHITEC	CTURAL SYMBOL	LEGEND		REV.	DATE	ITEM
SYMBOL	KEY NOTE	DESCRIPTION				
A H	DOOR					
\(\sqrt{wx}\)	NUMBER WINDOW DESIGNATION			<u> </u>		
	DESIGNATION ROOM TAG			THESE		DTICE ASED ON CONSTRUCTION
XXXX XXX XXX SF	— ROOM NAME — ROOM NUMBER — ROOM AREA			Drawings Architec Not repre	S NOT PREPARED BY CTS AND ENGINEER: ESENT THE CONDITI	Y BBS ARCHITECTS, LANDSCA IS, PC. AND, THEREFORE, MA IONS AS CONSTRUCTED AT TH
•	ELEVATION DATUM			TIME. ALL E AS SUGGES	EXISTING CONDITIC STIVE INFORMATION DETAILED PER THE (ONS SHOWN ARE REPRESENTI N AS THEY MAY NOT HAVE BE ORIGINAL DOCUMENTS OR P
# XX.XX	DETAIL TAG — DETAIL NUMBER — DRAWING NUMBER			ORIGINAL DOC		INFORMATION.
XX XX.XX	SECTION / ELEVATION TAG — DETAIL NUMBER — DRAWING NUMBER					
XX	DENOTES INTERIOR PARTITIO ADDITIONAL INFORMATION.	N TYPE - REFER TO F	PARTITION TYPES FOR			
F.E.	DENOTES LOCATION OF RECE WITH FIRE RATED CABINET.	:SSED FIRE EXTINGU	JISHER			
D.F.	DENOTES LOCATION OF DRINI FOUNTAIN.	KING				
E.J.	DENOTES LOCATION OF FULL APPROPRIATE INTERIOR FLOC COVERS, WHERE APPLICABLE EQUAL AT EXTERIOR, WHERE	OR, WALL AND CEILIN E. PROVIDE VERTICAL	NG EXPANSION JOINT			
M.C.J.	DENOTES LOCATION OF 1," I		JOINT WITH			
D.S.	DENOTES LOCATION OF NEW STONE.					
D.P.	DENOTES LOCATION OF NEW	DEDICATION				
S.D.	PLAQUE. DENOTES LOCATION OF SMOK DOOR.	KE				
XX'-XX"	DOOR. DENOTES FINISH FLOOR ELEVENGINEERING ELEVATIONS AF					
LL-XX	CIVIL-SERIES DRAWINGS FOR DENOTES LOCATION AND DES	ADDITIONAL DATUM				
R.W.	DENOTES LOCATION OF NEW/WINDOW.	EXISTING RESCUE				
I.D.	DENOTES LOCATION OF TRUS SIGN.	SS / JOIST IDENTIFICA	ATION			T
A.E.D.	DENOTES LOCATION OF AUTO DEFIBRILLATOR.)MATED EXTERNAL				
M.O.S.	DENOTES LOCATION OF ASSE SIGN.	MBLY SPACE MAXIMI	UM OCCUPANCY			
A.O.R.		EFER TO E-SERIES DF				
(XXX)	CAPACITY.					
X.X	DENOTES R.E.U. FOR ASSEMBLY SPACES DENOTES DOOR ON MAGNETIC AUTOMATIC HOLD OPEN DEVICE,				_	
M.O.L. XX	CONNECTED TO FIRE ALARM S - MAX. OCCUPANCY LOAD (PER	SYSTEM.	OPEN DEVICE,	CH	00	
P.S. XX	- PUPIL STATION COUNT	,		TST TS) - C - C	\ \
J.	DENOTES ACCESSIBLE ENTRA OR PARTICIPATION AREA.	DENOTES ACCESSIBLE ENTRANCE/EXIT, FIXTURE, ACCESSORY, DEVICE, OR PARTICIPATION AREA.			. S > 00	TAILS
	REVISION CLOUD AND KEYED DESIGNATION. REFER TO DRAWING TITLEBLOCK FOR ADDITIONAL INFORMATION.			OOL DISTRICT	ITARY NY 10506	DET
GENERAL	. CONSTRUCTION	I NOTES		CHOO	ELEMENT BEDFORD, NY	Ŋ
	ITRACTOR SHALL VERIFY ALL EX WITH WORK. NOTIFY ARCHITECT RK.			SC	. E N	AN ANI
BUILDING MUST PERIOD.	CE WITH STATE AND LOCAL COD T BE KEPT CLEAR, MAINTAINED /	AND PROTECTED DU	JRING THE CONSTRUCTION			
ESTIMATING. 4. ALL WORK AND	SHALL BE RESPONSIBLE FOR VE MATERIAL OF THIS PROJECT AT IN THE EVENT OF DAMAGE, TH	ND ADJACENT SURFA	ACES SHALL BE PROTECTED	NOS NOS NOS		
REPAIRS AND F AND AT NO ADD	E. IN THE EVENT OF DAWAGE, TH REPLACEMENT NECESSARY TO T DITIONAL COST TO OWNER. SHALL PROTECT ALL AREAS OF	THE APPROVAL OF T	THE ARCHITECT AND OWNER	CEN - B	/ILLA	SE
AT THE END OF 6. ALL PROJECT V BY THE CONTR	F DAILY WORK OPERATIONS. WASTE MATERIAL AND RUBBISH RACTOR FOR SUBSEQUENT LEGA	SHALL BE DISPOSED AL OFF-SITE DISPOS	D IN CONTAINERS PROVIDED SAL. CONTAINER LOCATION TO			PO
ON A REGULAR 7. ALL INTERIOR S	SURFACES DISTURBED DURING	CONSTRUCTION SHA	ALL BE REPAIRED AND/OR	FORD	RD 4	PROPOSE
OWNER. 8. ALL DEBRIS, DU	MATCH EXISTING CONDITIONS T UST AND DIRT CAUSED BY WORK OPRIATE MEANS. RESTORE ALL O	K OF THIS CONTRACT	T SHALL BE REMOVED FROM		- P	<u>Ф</u>
THAT EXISTED 9. ALL DEMOLITIO	PRIOR TO COMMENCEMENT OF ON AND CONSTRUCTION WORK T ON WORK TO BE PERFORMED WIT	WORK. TO BE PERFORMED W	WITHOUT ALL DEMOLITION AND	BE	Ē	
APPROVAL HAS 10. ALL CONTRACT AND WITH THE	S BEEN OBTAINED FROM OWNER TORS ARE TO COORDINATE INST WORK BEING PERFORMED UND	R. TALLATION OF THEIR DER SEPARATE CONT	WORK WITH EACH OTHER		m	
11. REFER TO CON	RMED BY THE OWNER'S VENDOR NSTRUCTION IMPLEMENTATION F OTHERS, IF APPLICABLE) FOR A	PLÁNS AND CONSTRI				
CONSTRUCTION	IV.]		
MATERIAI HATCH	L LEGEND MATERIAL	HATCH	MATERIAL			Щ
NATOR	CMU WALL CONSTRUCTION	FI	EARTH	PROJECT		OWGTITLE
	2-HOUR FIREWALL CONSTRUCTION	pood	GRAVEL	PRC		ă
	BRICK VENEER		RIGID INSULATION	DRWG		ED GEO
	GYPSUM AND METAL STUD		BATT INSULATION	CHK. B		
	WALL CONSTRUCTION GYPSUM BOARD; PLASTER;		PLYWOOD	- INDICA PROPERT	ATED IS AN INSTRUM Y OF BBS ARCHITEC	FOR THE SPECIFIC PROJECT MENT OF SERVICE AND THE CTS, LANDSCAPE ARCHITECT
**************************************	MORTAR; SAND CONCRETE		INTERMEDIATE BLOCKING	Drawing Alteration	FOR ANY OTHER ON OR REPRODUC	NGEMENT OR ANY USE OF TH PROJECT IS PROHIBITED. AN' CTION OF THIS DOCUMENT IS THE WRITTEN CONSENT OF TH
, 4			CONTINUOUS BLOCKING	, ALGO THO		OR ENGINEER.
	STEEL	1 17 75 75 71	FINISH WOOD) (
					< 1	

CONTINUOUS FIRE SAFING INSULATION STEEL J TRACK, MECHANICALLY FASTENED @ 24" O.C. ANCHOR TOP AND BOTTOM OF STUD SYSTEM SECURELY TO STRUCTURE 1 LAYER OF 5/8" GYP. BD. EACH SIDE CONTINUOUS CHANNEL BRIDGING @ 48" O.C. THERMAFIBER SAFB SOUND ATTENUATION BLANKETS. — 20 ga. COLD FORMED GALV. STEEL FRAMING @ 16" O.C. STEEL J TRACK, MECHANICALLY FASTENED @ 24" O.C. -UL DES U465———— 3 5/8" METAL STUD

SIMILAR AS SHOWN

66-01-02-06-0-002-016 BEDFORD CENTRAL **DISTRICT** SCHOOL DISTRICT PROJECT PHASE 1 - BOND **IMPROVEMENTS** SMOKE AND 1-HOUR PARTITION DWG TITLE PROPOSED PLAN AND DETAILS LOAD BEARING PARTITION, GRAPHIC

SED No.

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SCALE: AS NOTED DATE: 11/1/22 BID P/U DATE: 02/02/23 FILE NO. 22-225D

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEC, APPLICABLE LOCAL CODES, STATE CODES, SCHOOL WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEER'S SPECIFICATIONS. THE VOLTAGE CHARACTERISTIC OF EXISTING BUILDING IS 208Y/120V, 3-PASE, 4-WIRE. THE VOLTAGE CHARACTERISTIC OF THE
- PROPOSED ADDITION SHALL BE 480/277V, 3-PHASE 4-WIRE WITH 208/120V DERIVED FROM STEP DOWN TRANSFORMERS., ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS. 3. THE DRAWINGS SHOW SCHEMATICALLY, THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION, ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED.
- DIVISION 16 CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS/SPECIFICATIONS AND ACTUAL FIELD CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEERS ATTENTION BEFORE BID SUBMITTAL.
- DIVISION 16 CONTRACTOR SHALL PROVIDE ALL LABOR SERVICE MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL AUTHORITIES HAVING
- 6. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED. DIVISION 16 CONTRACTOR SHALL PAY ANY FEES APPLICABLE TO ELECTRICAL WORK, SUCH AS, BUT NOT LIMITED TO, THE POWER
- COMPANY, TELEPHONE COMPANY, CATV, CERTIFIED ELECTRICAL INSPECTORS, ALARM AND FIRE PROTECTION COMPANIES. THE DIVISION 16 CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS
- BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK. 9. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE SCHOOL DISTRICT BUILDINGS AND GROUNDS DEPARTMENT.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN INSPECTION CERTIFICATE AND PAY ASSOCIATED FEE. SUBMIT A PHOTOCOPY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION. DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN SECTION 1700 OF THE PROJECT MANUAL.
- 12. A COMPLETE SYSTEM OF WIRING, WITH ALL FEEDERS, MAINS, AND BRANCHES AS SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED FROM THE MAIN DISTRIBUTION BOARD TO THE PANELS OUTLETS, MOTORS, AND APPURTENANCES. 13. PROVIDE IDENTIFICATION FOR ALL PANEL AND MOTOR FEEDER CABLES IN PULL BOXES AND AT TERMINATIONS. ANY CONDUCTOR
- VOLTAGES HIGHER THAN 240 VOLTS SHALL BE MARKED ON DEVICES AND JUNCTION BOXES. 14. FURNISH AND INSTALL ALL WIRING OF ANY VOLTAGE OR PURPOSE AS SHOWN ON THE DRAWINGS. 15. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARING COMMON NEUTRALS AMONG BUNDLED CIRCUITS IS
- SPECIFICALLY DISALLOWED UNLESS OTHERWISE NOTED. 16. PULL/JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED OR AS OTHERWISE REQUIRED TO FACILITATE THE PROPER
- INSTALLATION OF WIRES AND CABLES. CONDUITS MAY BE INCREASED IN SIZE FOR CONSTRUCTION CONVENIENCE. 17. FURNISH AND INSTALL ALL DISCONNECT DEVICES AND SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED TO
- 18. FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE
- 19. DIVISION 16 CONTRACTOR SHALL PROVIDE TO SCHOOL 5 PERCENT SPARE LAMPS (MINIMUM QUANTITY 1) OF EACH TYPE SPECIFIED WITH NEW FIXTURES. 20. PROVIDE ALL WIRING, PANEL BOARDS, SWITCHES, FUSES, EQUIPMENT, AND ALL INCIDENTAL MATERIALS REQUIRED TO SUPPLY
- TEMPORARY AND PERMANENT ELECTRICAL NEEDS FOR THE WORK INVOLVED, ALL IN ACCORDANCE WITH OSHA, LOCAL, STATE AND UNDERWRITERS REQUIREMENTS. 21. ALL WIRING TO BE 1#12+1#12(N)+1#12(G)-3/4"C., OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. RUN BRANCH CIRCUITS IN DROPPED CEILINGS, VOIDS, & CHASES. CONDUITS MAY BE SURFACE MOUNTED IN MECHANICAL SPACES UNLESS OTHERWISE NOTED, CONDUITS IN PUBLIC AREAS SHALL BE CONCEALED IN HUNG CEILINGS. EMBEDDED IN SLAB OR MASONRY WALLS, EXCEPT WHERE SURFACE MOUNTED RACEWAY IS SPECIFIED. ALUMINUM JACKETED MC
- CABLE IS NOT ACCEPTABLE. 2. ALL CONNECTIONS AND/OR SPLICES SHALL BE MADE ONLY IN ACCESSIBLE JUNCTION BOXES. 23. ALL COUPLINGS AND CONNECTORS FOR USE WITH EMT SHALL BE COMPRESSION TYPE. SET SCREW TYPE OR INDENT TYPE FITTINGS
- 24. ALL CONNECTIONS TO CONDUIT RUN UNDERGROUND SHALL BE MADE WATERTIGHT. ALL METALLIC CONDUIT INSTALLED IN EARTH
- FILL, AS WELL AS UNDERGROUND, SHALL BE PAINTED WITH (2) COATS OF ASPHALTUM PAINT OR EQUAL. 25. WIRING INSTALLED IN CEILINGS SHALL BE HUNG INDEPENDENT OF CEILING SYSTEM AND SECURELY TIED TO BUILDING STEEL. 26. ALL LOW VOLTAGE (FIRE ALARM, PA INTERCOM, PHONE, DATA, ETC.) WIRING INSTALLED IN OPEN AREAS SHALL BE IN METALLIC RACEWAY IN MECHANICAL AREAS. GYMNASIUMS. ART ROOMS. STOREROOMS. ETC., AND IN SURFACE MOUNTED RACEWAY IN PUBLIC AREAS. LOW VOLTAGE WIRE INSTALLED IN DROPPED CEILINGS SHALL BE BUNDLED TOGETHER AND SUPPORTED BY BUILDING STEEL. LOW VOLTAGE WIRE SHALL NOT BE SUPPORTED WITH BRANCH CIRCUITS OR FEEDER CIRCUITS AND SHALL NOT BE SUPPORTED BY
- CONDUIT, PIPES, ETC.. LOW VOLTAGE WIRING NOT INSTALLED IN CONDUITS, SHALL BE PLENUM RATED. 27. CONDUITS SHALL BE SECURED IN PLACE AND PROTECTED WHERE NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION. 28. FURNISH AND INSTALL ALL HARDWARE TO PROPERLY SUPPORT ALL CONDUITS NOT INSTALLED IN CONCRETE SLABS OR
- 29. ALL CONDUITS OR MC CABLE SHALL BE EQUIPPED WITH AN INSULATING/CHAFE GUARD GROMMET AT WIRE EXIT/ENTRANCE. MC
- CABLE SHALL USE MC STYLE BUSHINGS. BX OR OTHER BUSHINGS ARE SPECIFICALLY DISALLOWED. 30. WHERE AN EXISTING CONDUIT OR CABLE IS REQUIRED TO BE REMOVED BUT SERVES AND EXISTING PIECE OF EQUIPMENT WHICH IS TO REMAIN OPERABLE, THE DIVISION 16 CONTRACTOR SHALL REROUTE SAID CONDUIT OR CABLE OR PROVIDE A NEW SOURCE OF
- 31. ALL PANELS, SWITCHES, DISCONNECT STARTERS, OR OTHER ELECTRIC SYSTEM CONTROLS SHALL BE STENCILED WITH THEIR APPROPRIATE DESIGNATION/FUNCTION. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED BY A PANEL SCHEDULE OR STENCIL ADJACENT
- 32. ALL CIRCUIT BREAKERS POSITIONS IN ALL PANELS ARE SHOWN FOR ESTIMATE PURPOSES ONLY. EC IS RESPONSIBLE FOR LOAD
- 33. ALL DEVICES SHALL BE FASTENED IN PLACE SECURELY. GRID MOUNTING LIGHTING FIXTURES SHALL BE SECURED TO GRID WITH CLIPS LISTED FOR THE PURPOSE OR SUSPENDED FROM STRUCTURE PER NEC.

POWER (APPROVED BY ENGINEERING) TO THIS EQUIPMENT AS A PART OF THIS CONTRACT.

- 34. WORK WHICH MUST BE DONE IN OCCUPIED AREAS SHALL BE DONE AT SUCH TIMES AS INDICATED IN THE PHASING OF CONSTRUCTION AND AS APPROVED BY THE SCHOOL.
- 35. WHERE THE DIVISION 16 CONTRACTOR IS INSTRUCTED TO PROVIDE, INSTALL AND WIRE CIRCUIT BREAKER(S) TO AN EXISTING PANEL AND THAT PANEL DOES NOT HAVE THE ROOM TO INSTALL REQUIRED CIRCUIT BREAKERS, THE DIVISION 16 CONTRACTOR SHALL REMOVE (3) ADJACENT 1P CIRCUIT BREAKERS AND PROVIDE A 3P, 60A BREAKER IN THEIR PLACE FOR SUB FEED TO A SURFACE MOUNTED 100A, 3~, 4W, 24 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL, EACH WITH REQUIRED CIRCUIT BREAKERS. PROVIDE (3) 1P, AMPERAGE AS BEFORE CIRCUIT BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3#6+1#6(N)+1#10(G)-1"C.
- 36. SELECTED RECEPTACLES AS SHOWN ON DRAWINGS MAY BE GFI PROTECTED BY CONNECTING TO GFCI RECEPTACLE FIRST IN CIRCUIT. ALL RECEPTACLES THAT ARE PROTECTED FROM AN UPSTREAM GFCI UNIT SHALL BE VISABLY LABELED AS SUCH. GFCI RECEPTACLE SHALL BE SPEC GRADE AND RATED 20A, WITH OPERATING NOTIFICATION INDICATING LIGHT. . ALL DEVICES ADDRESSED BY ADA REGULATIONS SHALL BE INSTALLED AT ADA COMPLIANT HEIGHT AND LOCATIONS.
- 38. ALL NEW LIGHTING OR EXISTING LIGHTING HAVING SWITCHING REARRANGEMENT SHALL BE EQUIPPED WITH CODE COMPLIANT ENERGY CONSERVATION CONTROLS. SUCH CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO
- 39. REMOVAL OF ELECTRICAL ITEMS INCLUDES THEIR DISPOSAL. THE EXCEPTION WILL BE TO TURN OVER TO THE OWNER ITEMS, IF ANY,
- THEY SPECIFY TO BE RETAINED IN THEIR INVENTORY. PCB OR ASBESTOS BEARING MATERIAL SHALL BE DISPOSED OF IN ACCORDANCE WITH LAWS AND REGULATIONS.
- 40. EC SHALL PROVIDE & WIRE WEATHERPROOF GFCI RECEPTACLES ON ALL APPLICABLE ROOFTOP UNITS AS PART OF HIS BID. SEE MECHANICAL EQUIPMENT SCHEDULES FOR UNITS WITH SERVICE RECEPTACLES FACTORY INSTALLED.
- 41. UNLESS OTHERWISE NOTED, STARTERS AND DISCONNECTS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL POWERED MECHANICAL EQUIPMENT. THE DIVISION 16 CONTRACTOR IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING FROM SOURCE TO UNIT VIA STARTERS AND DISCONNECTS. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE DIVISION 16 CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS, EQUIPMENT SCHEDULES & NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, .AND THE REMOVAL OF ANY STARTERS/DISCONNECTS NO

DEMOLITION NOTES (NOT ALL APPLY):

- THE ITEMS SPECIFICALLY SHOWN ON DEMOLITION DRAWING/S ARE TO BE ADDRESSED BY THE ELECTRICAL CONTRACTOR. THE ITEMS ARE TO BE TREATED AS NOTED AND RANGE FROM DIRECT REMOVAL AND DISPOSAL, OR REMOVAL, STORAGE, AND REINSTALLATION/RELOCATION, OR TEMPORARY REMOVE/STORAGE, AND REINSTALLATION IN SAME LOCATION. MANY OTHER ELECTRIC ITEMS EXIST THAT ARE NOT SHOWN INCLUDE, BUT ARE NOT LIMITED TO, SWITCHES, RECEPTACLE, FLOOR
- OUTLETS, LOW VOLTAGE JACKS, LOW VOLTAGE DEVICES AND WIRING, TELEPHONE PUNCH DOWN BLOCKS, AND OUT OF SERVICE ITEMS. ALL SUCH ITEMS SHALL BE PERMANENTLY DE-ENERGIZED, DISCONNECTED, AND OTHERWISE MADE SAFE FOR DEMOLITION BY NON-ELECTRIC DEMOLITION WORKERS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL ELECTRIC DEVICES, OF ANY VOLTAGE OR FUNCTION, THAT ARE TO BE DEMOLISHED ARE SAFE AND ADVISE THE DEMOLITION CONTRACTOR WHEN THIS IS SO.
- AFTER THE ELECTRICAL CONTRACTOR HAS DISCONNECTED ELECTRIC SUPPLIES TO ITEMS TO BE DEMOLISHED, HE SHALL ADVISE THE GENERAL CONTRACTOR OF ANY ELECTRIC ITEMS TO BE RETAINED FOR FUTURE USE AND THEREFOR NOT TO BE DEMOLISHED. THE GENERAL CONTRACTOR SHALL THEN PERFORM ALL WORK ZONE DEMOLITION. THIS MATTER APPLIES TO ALL
- ELECTRIC ITEMS, OF ANY VOLTAGE OR PURPOSE. THE SPECIAL/SPECIFIC ITEMS SHOWN ON THE DRAWING FOR ELECTRICAL CONTRACTOR TO ACT ON WERE FOUND BY SURVEY. NUMEROUS LOCATIONS WERE BLOCKED BY FURNITURE, ETC. AND ADDITIONAL EQUAL TYPE ITEMS MAY BE PRESENT. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THIS IN HIS BID PRICE AND ATTEND TO THOSE EQUAL OR SIMILAR DEVICES AS MAY BE DISCOVERED
- REMOVAL ITEMS THAT ARE LISTED AS TO BE TURNED OVER TO OWNER'S INVENTORY SHALL BE DISCUSSED WITH THE DISTRICT BUILDINGS AND GROUNDS MANAGER. THOSE ITEMS THAT THE OWNER DECLINES SHALL THEN BE DISPOSED OF BY THE CONTRACTOR IN THE MANOR OF OTHER PERMANENT REMOVALS. ANY PCB BEARING FLUORESCENT FIXTURES SHALL BE
- RETAIN EXISTING RECEPTACLES IN WALLS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. RETAIN LIGHT SWITCH LOCATIONS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. INSTALL BLANKING PLATE COVERS OVER THE UNUSED PORTION OF GANG BOXES HAVING MORE GANG POSITIONS THAN NEEDED FOR NEW SWITCHES.
- LIGHT FIXTURES ARE TO BE REMOVED AS GENERAL, NON ELECTRIC, CONTRACTOR DEMOLITION. DIVISION 16 CONTRACTOR RESPONSIBLE TO SAFE OFF LIGHTUING CIRCUITS FOR REMOVAL BY OTHERS. NO SPECIFIC QUANTITIES OR LOCATIONS ARE SHOWN. RETURN WHATEVER QUANTITY, IF ANY, OF THESE TO OWNER'S INVENTORY IF HE SO SPECIFIES OR THEY ARE OTHERWISE TO BE DISPOSED OF. ELECTRICAL CONTRACTOR SHALL EXAMINE FIXTURES FOR PRESENCE OF PCB'S AND SPECIAL
- THE ELECTRICAL CONTRACTOR SHALL COVER ALL BACK BOXES IN THE WALL THAT BECOME EXPOSED DUE TO DEVICE REMOVALS. THIS INSTRUCTION ALSO APPLIES TO EXPOSED ELECTRICAL BACK BOXES AS MAY EXIST AT THE SITE PRIOR TO THIS PROJECT. THE COVER SHALL BE BRUSHED ALUMINUM WITH CHAMFERED EDGES AND COVER THE HOLE COMPLETELY WITH AT LEAST 3/4" EXTRA MARGIN ON ALL SIDES. MOUNT THE COVER WITH SCREWS TO MATCH THE ORIGINAL PATTERN.
- IT IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRIC SUPPLIES, OF VARIOUS VOLTAGES AND PURPOSES, TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRIC SOURCES WHEN THE NEW STRUCTURE IS BUILT. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. PROVIDE ALL REQUIRED CIRCUIT EXTENSIONS AS REQUIRED TO RESTORE SERVICE TO DEVICES. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NOMINALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTOR'S
- 10. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES, FROM DAMAGES DURING CONSTRUCTION, WHICH ARE EITHER INDICATED TO REMAIN, AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO: SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLE, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY DAMAGED DEVICES AT NO ADDITIONAL COST TO OWNER.
- ALL SYSTEM ASSOCIATED WITH THE DEVICES SCHEDULED TO BE REMOVED, STORED AND PROTECTED SHALL BE TESTED BY THE MANUFACTURER'S CERTIFIED TESTING VENDOR PRIOR TO ANY DEMOLITION ACTIVITY. ANY DEVICE WHICH FAILS THE TEST SHALL BE REPLACED WITH A FORM, FIT AND FUNCTION COMPONENT PER UNIT PRICES, AND SUCH DEVICES ARE NOT INCLUDED IN THIS RESPONSIBILITY STATEMENT, BUT ALSO SUCH INSTALLATION SHALL BE IN THE ELECTRICAL CONTRACTOR'S BASE BID. THE ELECTRICAL CONTRACTOR SHALL RE-TEST ALL SUCH SYSTEM COMPONENTS BY A MANUFACTURER CERTIFIED TESTING VENDOR OF SUCH SYSTEM OF ALL PREVIOUSLY TESTED SYSTEM COMPONENTS AFTER ALL WORK BY ALL TRADES HAS BEEN COMPLETED, AND ALL SYSTEM COMPONENTS HAVE BEEN INSTALLED. ANY COMPONENT WHICH FAILS SHALL BE REPLACED. AND PROGRAMMED IF NECESSARY BY THE ELECTRICAL CONTRACTOR. ALL SUCH REPLACEMENT AND PROGRAMMING COSTS SHALL BE ELECTRICAL CONTRACTOR'S RESPONSIBILITY. ALL COSTS ASSOCIATED WITH THE TESTING OF AFFECTED SYSTEM SUCH AS BUT NOT LIMITED TO FIRE ALARM. PUBLIC ADDRESS. INTERCOM. TELEPHONE. AND SECURITY SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL EQUIPMENT, DEVICES, WIRING AND THEIR ASSOCIATED MATERIAL SPECIFIED TO REMAIN, WHICH IS NOT STORED AND PROTECTED. SHALL BE PROTECTED DURING THE DEMOLITION ACTIVITIES, AND ALL TRADES SHALL BE INFORMED OF SUCH COMPONENTS. ANY OF SUCH COMPONENTS WHICH BECOME DAMAGED DURING DEMOLITION SHALL BE REPLACED FORM, FIT AND FUNCTION BY THE ELECTRICAL CONTRACTOR AT HIS EXPENSE.

ABBREVIATIONS

E, EX	EXISTING
ETR	EXISTING TO REMAIN
PSEGLI	PSE&G LONG ISLAND (UTILITY CO.)
SM, S.M.	SURFACE MOUNTED

U.O.N. UNLESS OTHERWISE NOTED ELECTRICAL CONTRACTOR

GC, G.C. GENERAL CONTRACTOR

MECHANICAL CONTRACTOR

PLUMBING CONTRACTOR

AWAY FROM FLOOR CIRCUIT BREAKER

RECEPTACLE ABOVE COUNTERTOP

TEMPORARY POWER CONSTRUCTION NOTES: (NOT ALL APPLY)

- 1. THE DIVISION 16 CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHT IN THE NEW AREAS 'D', AND 'E' AND THE RECONSTRUCTED AREAS OF THE EXISTING BUILDING.
- OUTSIDE RECEPTACLES SHALL BE WATERPROOF AND HAVE A COVER THAT ENCLOSES THE PLUGGED IN CORDS WHILE IN SERVICE AS INTERMATIC WP120C, NON-WATERPROOF GEAR IN A HOUSING IS NOT ACCEPTABLE.

ALL TEMPORARY POWER PANELS AND FUSED SWITCHES OUTSIDE SHALL BE NEMA 3R CONSTRUCTION AND LOCKABLE. ALL

- 3. ALL RECEPTACLES SHALL BE GFCI PROTECTED AND MOUNTED 3'-0" ABOVE FINISHED FLOOR. PROVIDE WORK BLOCKING AS
- REQUIRED. ALL RECEPTACLES OUTLETS SHALL BE 2 GANG DOUBLE DUPLEX. TEMPORARY LIGHTING SHALL BE CONSTRUCTED OF SINGLE AND DOUBLE 100 WATT CLEAR INCANDESCENT LAMPS, OR EQUIVALENT, AND WATERPROOF RUBBER SOCKETS, SPLICED WITH WATERPROOF CONNECTORS ON FESTOONED ROMEX-TYPE WIRE. ADEQUACY OF ALL TEMPORARY LIGHTING CONFIGURATIONS SHALL BE AS DETERMINED BY THE CONSTRUCTION MANAGER. PRE ASSEMBLED TEMPORARY LIGHTING IS DISALLOWED. TAPS AND SPLICES SHALL BE MADE WITH SCOTCH LOCK CONNECTORS, RUBBER TAPE, AND THEM PVC COATED. THE CONNECTORS SHALL BE FILLED WITH PENETROX. A PLASTIC SHAPE ON CAGE/GUARD SHALL PROTECT EACH SOCKET AND LAMP, NOMINAL SPACING BETWEEN LAMP CLUSTER IS 16 FEET. MOUNT LIGHTS EIGHT FEET ABOVE FINISHED FLOOR IN TYPICAL LOCATIONS AND 10 FEET ABOVE FINISHED FLOOR IN CORRIDOR. PROVIDE NIGHT LIGHTING CIRCUIT, WHICH SHALL OPERATE CONTINUOUSLY. ALL LAMPS SHALL BE 130 VOLT, ROUGH SERVICE
- RATED. TEMPORARY LIGHTS SHALL BE TO OSHA STANDARDS. ALTERNATE FIXTURES SHALL BE 400W CONSTRUCTION SITE STYLE PROVIDE HOOK UPS TO JOB TRAILER FOR ALL TRADES. USE SITE POWER AS SOURCE. OWNER PAYS FOR POWER CONSUMPTION. WIRING SHALL BE 1#12+1#12(N)+1#12(G) ROMEX STYLE. CIRCUITS SHALL BE OPERATED A MAXIMUM OF 15 AMPS OR 1800 WATTS (18 100 WATT LAMPS), SWITCHING SHALL BE DONE VIA THE SWITCH RATED 20A, 10 CIRCUIT BREAKERS. SEGREGATE THE NIGHT LIGHTS AND RECEPTACLES IN THE LOWER PART OF THE POWER PANELS AND LABEL THESE "DO NOT TURN OFF". CIRCUIT HOME RUNS CONDUCTORS SHALL INCREASE ONE WIRE SIZE EVERY 100 FEET I.E. #10 CONDUCTORS. WIRING WITHIN THE ROOM AREA SHALL BE MADE WITH #12 CONDUCTORS.
- THE DIVISION 16 CONTRACTOR SHALL PREPARE EACH PANEL SCHEDULE. A LENGTH OF GREENFIELD FLEX CONDUIT AT PINCH POINTS SHALL PROTECT ALL WIRE, SUCH AS WHERE WIRING PASSED THROUGH A DOORWAY. WIRING SHALL BE SUPPORTED FROM ANCHORS INSTALLED BY THE DIVISION 16 CONTRACTOR FOR THE PURPOSE OF ATTACHMENT TO PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.
- 10. ALL WIRING SHALL BE INSTALLED SO AS NOT TO CAUSE TRIPPING HAZARD OR SIMILAR OBSTRUCTION. 11. POWER PANELS SHALL BE EQUIPPED WITH 42 1P, 20A CIRCUIT BREAKERS AND ALL CIRCUIT BREAKERS NOT IN SERVICE SHALL BE
- LABELED SPARE. AT THE OWNERS OPTION PANEL AND CIRCUIT BREAKERS SHALL BE TURNED OVER TO OWNERS INVENTORY AT CONCLUSION OF THE PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT. 12. THE DIVISION 16 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF TEMPORARY LIGHTING AND POWER SYSTEMS DURING, AND AFTER INSTALLATION, UP TO THE TIME OF BENEFICIAL OCCUPANCY, AND TIME OF REMOVAL, REPAIRS SHALL BE MADE WITHIN 24 HOURS OF THE REPORTED OUTAGE, OR AS DIRECTED BY THE CONSTRUCTION MANAGER. DIVISION 16 CONTRACTOR SHALL COMMENCE WORK ON THIS PROJECT WITH A GROSS OF SPARE CONSTRUCTION BULBS AT HIS IMMEDIATE
- 13. REMOVAL OF THE TEMPORARY POWER AND LIGHTING SHALL BE THE RESPONSIBILITY OF THE DIVISION 16 CONTRACTOR WHEN THE PROJECT IS COMPLETE. ALL EQUIPMENT, WIRING SUPPORTS, CONNECTORS, ETC. SHALL BE REMOVED FROM OWNER'S PROPERTY AFTER PROJECT IS COMPLETE. INCLUDE STATEMENT OF REMOVAL WITHIN CLOSE OUT DOCUMENTS, REQUIRED FOR
- FINAL PAYMENT. 14. PROVIDE THE TEMPORARY ELECTRICAL SERVICE TO THE CONSTRUCTION TRAILERS SHALL BE AS PER USERS REQUIREMENTS
- OF THE TRADES. TEMPORARY SERVICES ARE REQUIRED PER SPECIAL CONDITIONS OF THE PROJECT. 15. ALL TEMPORARY POWER WORK SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER SPECIAL EMPHASIS SHALL BE

FIRE STOP NOTES:

1. ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED. 2. THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, 6P-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-635 TROWEL ABLE COMPOUND, AS

3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS SPECIFIED OR EQUAL.

EXERCISED FOR TERRAZZO MACHINES AND ITS ELECTRICAL REQUIREMENT.

4. FIRE STOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS AND STATEMENT FROM MANUFACTURER THAT THEY MEET OR EXCEED THE PRODUCTS SPECIFIED

5. ALL SYSTEMS SHALL HAVE THEIR OWN SLEEVE THROUGH FIRE RATED WALLS. IE FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA, POWER AND LIGHTING.

ELECTRICAL SYMBOL LEGEND SMOKE DETECTOR - CEILING MOUNTED SPEAKER - CEILING MOUNTED SPEAKER - WALL MOUNTED CLOCK - WALL MOUNTED TELEPHONE VOIP CONNECTION FIRE ALARM CONTROL PANEL PUBLIC ADDRESS MAIN PANEL

SIMILAR SYMBOLS USED ON DEMO PLANS. ALL ITEMS SHOWN ON DEMO PLAN TO BE REMOVED ENTIRELY UNLESS OTHERWISE NOTED.

LINE DESIGNATIONS

EXISTING TO REMAIN DEVICES DEVICES TO BE REMOVED. PULL _____ BACK ALL ASSOCIATED CONDUIT AND WIRING AND REMOVE UNLESS OTHERWISE NOTED ON THE

NEW DEVICES

REV. DATE

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CHK. BY:

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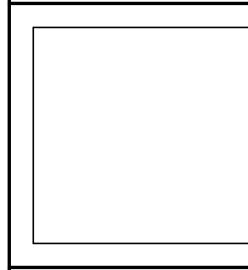
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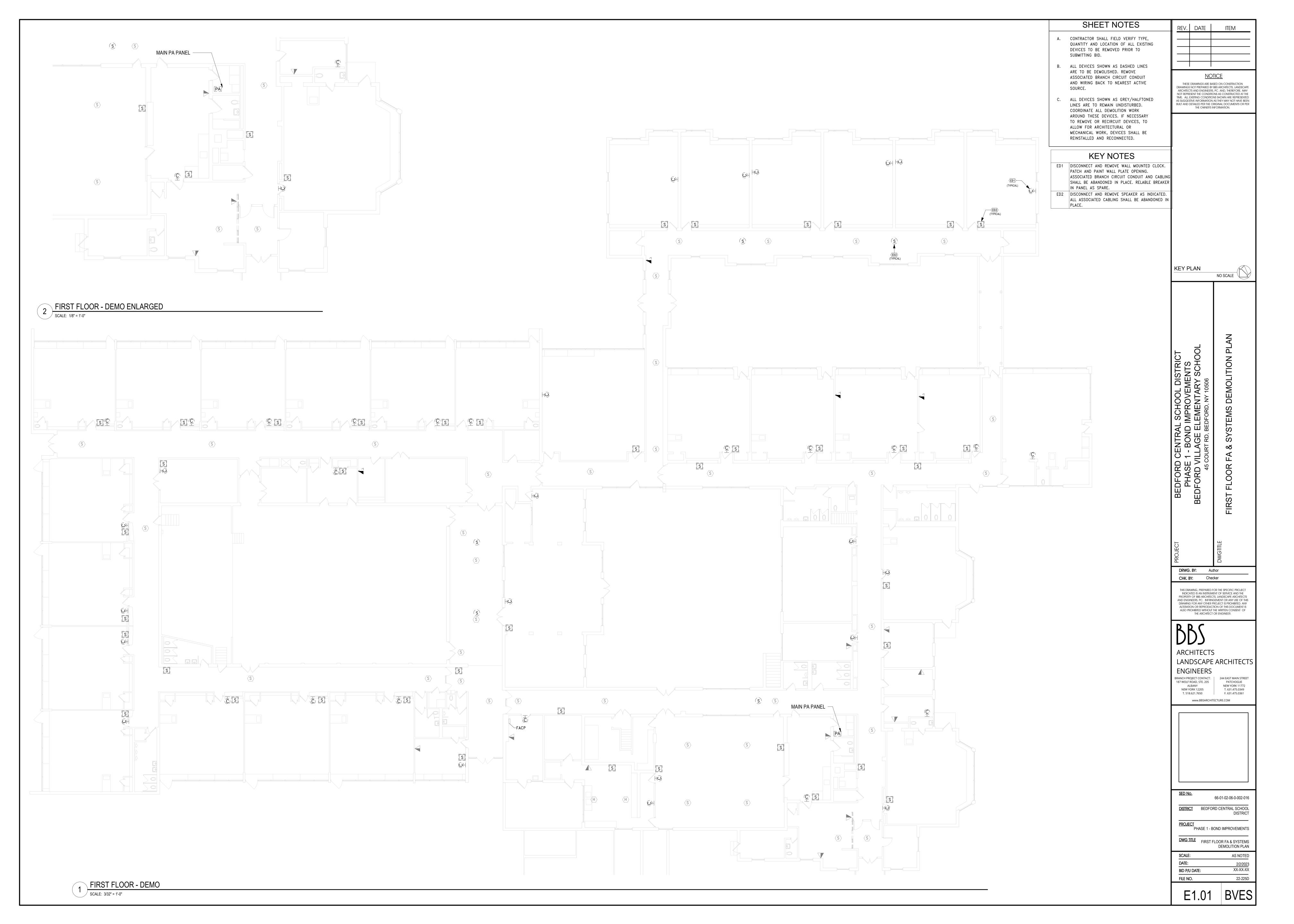
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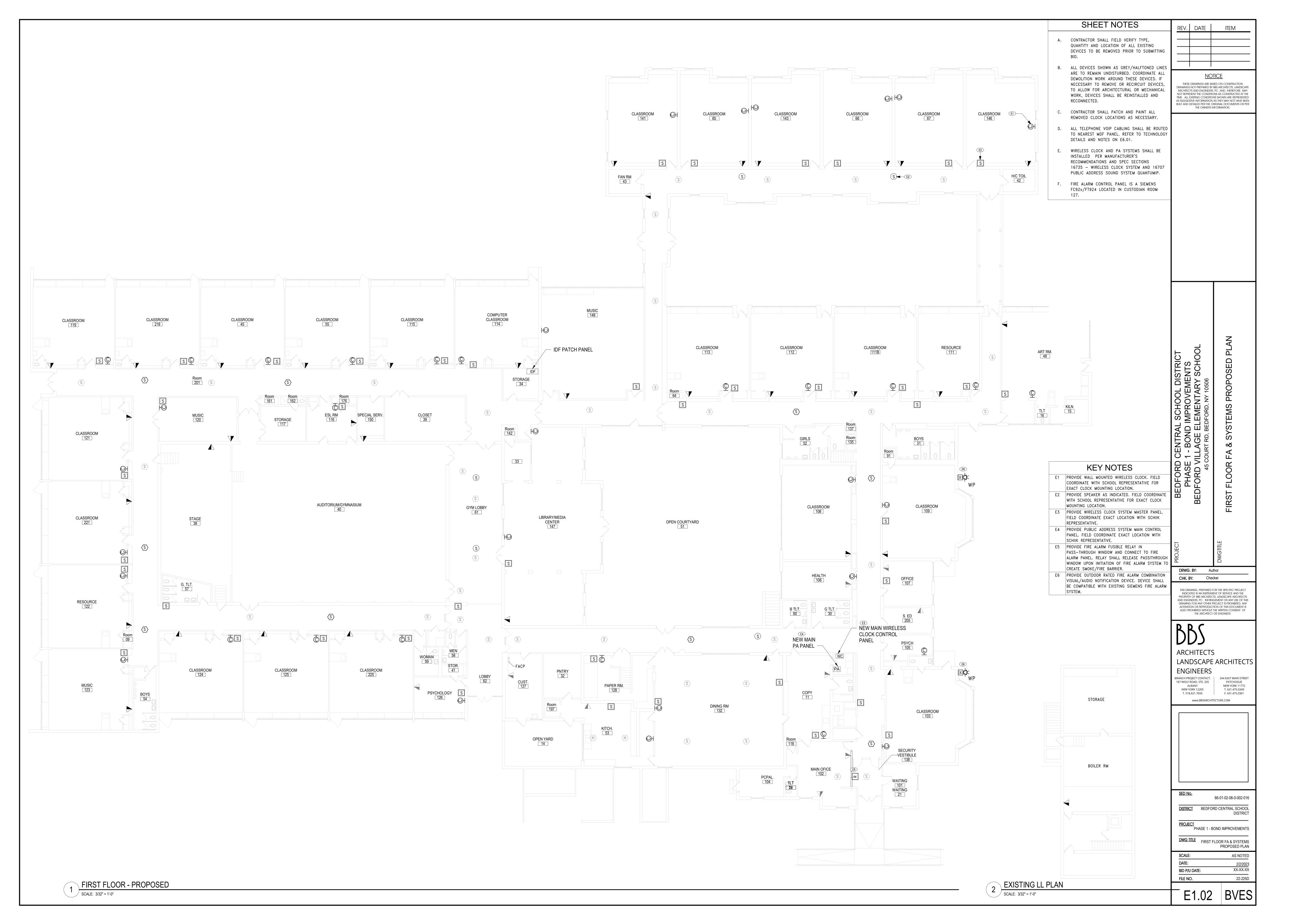


66-01-02-06-0-002-016 **DISTRICT** BEDFORD CENTRAL SCHOOL

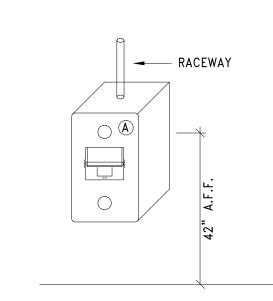
DWG TITLE GENERAL NOTES, LEGENDS AND ABBREVIATIONS

SCALE: BID P/U DATE:





		WALL MOUNT TELEPHONE	
QNTY.	PART NUMBER	DESCRIPTION	MANUFACTURER
1	MX-WP-K6-SS	STAINLESS STEEL PHONE PLATE W/CAT6 RJ45	SIEMON
AS NEEDED	V700	V700 METALLIC RACEWAY	WIREMOLD
1	V5747	SHALLOW DEVICE BOX	WIREMOLD
1	V5785	COMBINATION CONNECTOR ENTRANCE FITTING	WIREMOLD
***	UN874049704/10	WHITE CAT 6 CABLE	COMMSCOPE



$\binom{2}{2}$	TELEPHONE	RACEWAY	
			SCALE: N.T.S.

1. REFER TO DRAWINGS FOR QUANTITY

		TELEPHONE WALL BOX		EMBEDDED CONDUIT
QNTY.	PART NUMBER	DESCRIPTION	MANUFACTURER	
1	MX-WP-K6-SS	STAINLESS STEEL PHONE PLATE W/CAT6 RJ45	SIEMON	
1	_	STANDARD DRYWALL BOX	-	
***	UN874049704/10	WHITE CAT 6 CABLE	COMMSCOPE	42,

1. REFER TO DRAWINGS FOR QUANTITY

2. INSTALL CONDUIT AS NEEDED

TELEPHONE WALL BOX

SCALE: N.T.S.

DRAWING NOTES - CAT 6/CAT 6A:

- 1. ALL 4-PAIR UTP HORIZONTAL STATION PLENUM RATED CABLES FOR VOICE/DATA SERVICES SHALL BE HOMERUN TO THE NEAREST COMMUNICATIONS ROOM.
- ROUTE COMMUNICATION CABLES THROUGH THE GYPSUM WALLS, CONCRETE BLOCK AND RACEWAY UP TO THE CEILING CAVITY. COMMUNICATIONS CABLES MAIN PATHWAY WILL BE THE HALLWAYS TO THE NEAREST COMMUNICATIONS ROOM.
- 3. REFER TO THE REFLECTED CEILING PLANS AND MECHANICAL PLANS TO COORDINATE PATHWAYS IN THE CEILINGS WITH LIGHT FIXTURES AND MECHANICAL DUCT WORK.
- 4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE ROUTING OF CABLES ABOVE THE HUNG CEILING WITH THE ELECTRICAL, MECHANICAL AND GENERAL CONTRACTORS PRIOR TO INSTALLATION.
- 5. DO NOT LAY CABLES OVER LIGHTING FIXTURES OR ELECTRICAL MACHINERY IN THE HUNG CEILING. CABLES SHALL BE PLACED AT A MINIMUM OF 12 INCHES AWAY FROM MAGNETIC INDUCING EQUIPMENT.
- 6. FURNISH AND INSTALL ADDITIONAL SLEEVES (WITH GROMMETED ENDS) AS REQUIRED FOR THE ENTRANCES INTO THE COMMUNICATIONS ROOMS AND ANY OTHER APPLICABLE AREAS. ALL SLEEVES SHALL BE FIRESTOPPED WHEN THE INSTALLATION IS COMPLETED.
- 7. PROVIDE ALL PENETRATIONS AND RATED PARTITION FIRESTOPPING EVERY TIME A PARTITION IS TRAVERSED ABOVE THE HUNG CEILING. EXISTING FIREPROOFING MATERIAL WHICH IS DISTURBED OR DAMAGED BY THE WORK UNDER THIS CONTRACT SHALL BE REPLACED AND RESTORED TO THE SATISFACTION OF THE OWNER.
- 8. FURNISH AND INSTALL TRAPEZE, BRIDAL RINGS, CADDY HANGERS, J-HOOKS AND OTHER INDUSTRY ACCEPTED METHODS REQUIRED TO SUPPORT ALL INSTALLED CABLES. DO NOT SUPPORT CABLES ON CEILING BLACK IRON, DROP CEILING GRID OR ON ANY OTHER DEVICES THAT ARE NOT INTENDED FOR THE SUPPORTING OF CABLES. EXCEPT FOR GROUPS OF 10 OR FEWER CABLES, CABLE SUPPORTS SHALL BE ANCHORED TO THE UNDERSIDE OF THE SLAB AND CLAMPED TO BUILDING STEEL.
- 9. CABLES MUST BE SUPPORTED AT A MINIMUM EVERY SIX (6) FEET AND BUNDLES MUST BE HOOK & LOOPED TOGETHER AT A MINIMUM OF EVERY THREE (3) FEET.
- 10. ALL CABLES SHALL BE INSPECTED AS THEY ARE PULLED OFF THE REEL FOR ANY OBVIOUS DEFECTS. REPORT ANY DEFECTS IMMEDIATELY TO THE ENGINEER AND HALT FURTHER USE OF THE CABLE FROM THAT REEL, PENDING A DETERMINATION OF THE QUALITY OF THE REEL BY THE MANUFACTURER.
- 11. ALL CABLES SHALL BE PULLED BY HAND AND CONTINUOUSLY MONITORED BY A TENSION METER SO AS NOT TO EXCEED THE PRESCRIBED MAXIMUM PULLING TENSION RECOMMENDED BY THE MANUFACTURER.
- 12. CONTRACTOR SHALL NOT EXCEED THE CABLE PULLING FORCE AND MINIMUM CABLE BENDING RADIUS. CABLE TERMINATIONS AT DISTRIBUTION RACKS/CABINETS FOR VOICE AND DATA SHALL BE DRESSED NEATLY AND DONE IN A WORKMANLIKE MANNER. HOOK & LOOP CABLES AND CUT TO LENGTH AT TERMINATION POINTS.
- 13. WHEN INSTALLING ENHANCED CATEGORY-6 UTP CABLE, MAKE SURE THE CABLE IS NEVER BENT BEYOND A 90 DEGREE ANGLE. A CABLE BEND RADIUS OF 4 TIMES THE DIAMETER OF THE CABLE IS RECOMMENDED. (ON A 4-PAIR CABLE, THIS IS APPROXIMATELY ONE INCH.)
- 14. ALL CABLES SHALL BE PULLED BY THE ELECTRICAL CONTRACTOR IN CONTINUOUS SPLICE-FREE RUNS, WITH NO FACTORY OR FIELD SPLICES, UNLESS OTHERWISE SHOWN ON DRAWINGS AND/OR SPECIFICATIONS.
- 15. PULLING AND LAYING CABLE ON SHARP EDGES IS NOT PERMITTED.
- 16. THE CABLE PATHS SHOWN ON DRAWINGS REPRESENT DESIGN INTENT AND APPROXIMATE ROUTING OF CABLES IN HUNG CEILING TO DROP OFF POINTS. ADJUST ACCORDINGLY TO EXISTING FIELD CONDITIONS.
- 17. QUANTITY OF CABLE IS NOT REPRESENTED. CONTRACTOR SHALL TABULATE QUANTITY BASED UPON COMMUNICATION OUTLET SYMBOLS SHOWN (TYPICAL). CONTRACTOR TO VERIFY IN FIELD AND MAKE ADJUSTMENTS AS REQUIRED.
- 18. PROVIDE A MINIMUM OF SIX (6) FEET OF SLACK AT THE STATION END FOR WORKSTATION LOCATIONS. NEATLY COIL AND CONCEAL SLACK ABOVE THE HUNG CEILING AND PROTECT FROM DAMAGE BY WORKMEN PRIOR TO EXTENDING CABLE AND INSTALLING TO VOICE/DATA WORKSTATION OUTLET.
- 19. ALL VOICE/DATA UTP STATION CABLES SHALL BE HOMERUN BACK TO THE MAIN -OR-IDF COMMUNICATIONS ROOM AS ILLUSTRATED ON THE TECHNOLOGY FLOOR PLANS. REFER TO DETAIL PLANS AND ELEVATIONS FOR THE DEMARCATION LOCATIONS OF ALL
- 20. ALL ABANDONED/NON USED CABLES TO BE REMOVED FROM PLENUM SPACES AS PER
- 21. ALL NEW EQUIPMENT TO BE GROUNDED AND BONDED AS PER CODE.
- 22. ALL TELECOMMUNICATION INFRASTRUCTURE GROUNDING SHALL BE PROVIDED IN COMPLIANCE WITH TIA 607 AND TIA TSB-162 FOR WIRELESS SYSTEM INSTALLATION.

VOICE CONSTRUCTION NOTES:

- 1. PROVIDE AND INSTALL A VOICE RUN FROM NEW PHONE DROPS TO EXISTING LOCAL WIRE CLOSET. VOICE SHALL BE CATEGORY 6 CABLE TO TERMINATE AT BOTH ENDS USING CAT6 RJ45 CONNECTORS AND PATCH PANELS.
- 2. VOICE BACK BONE CABLE TO BE INSTALLED TO A 24 PORT PATCH PANEL. E.C. TO TERMINATE EACH PAIR TO THE BLUE PAIR OF THE PATCH PANEL. LAST PAIR TO REMAIN UN-TERMINATED. 3. ALL CABLES SHALL BE CONCEALED AND SURFACE RACEWAY SHALL BE USED AT ALL

DRAWING NOTES

EXPOSED AREAS.

- 1. MAINTAIN APPROPRIATE SEPARATION OF LINE VOLTAGE AND LOW VOLTAGE CABLE.
- 2. QUANTITY OF DROPS AS PER FLOOR PLANS.
- 3. 2 DUPLEX RECEPTACLES PER DROP UNLESS SPECIFIED OTHERWISE.
- 4. MAINTAIN 3' ON CENTER PER DROP SETUP.
- 5. CABLES BACKFED OR RACEWAY FED AS REQUIRED.

REV. DATE ITEM

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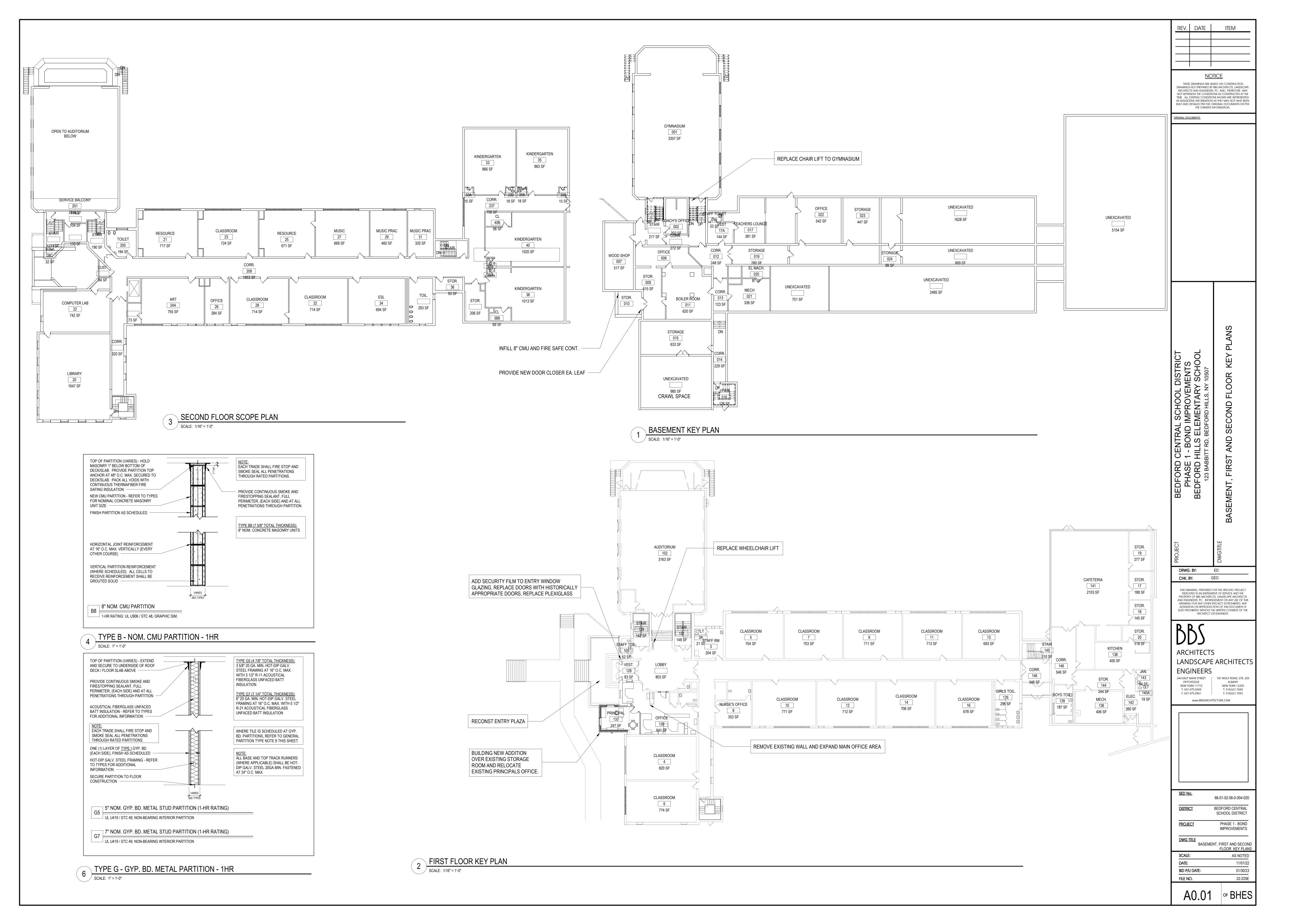
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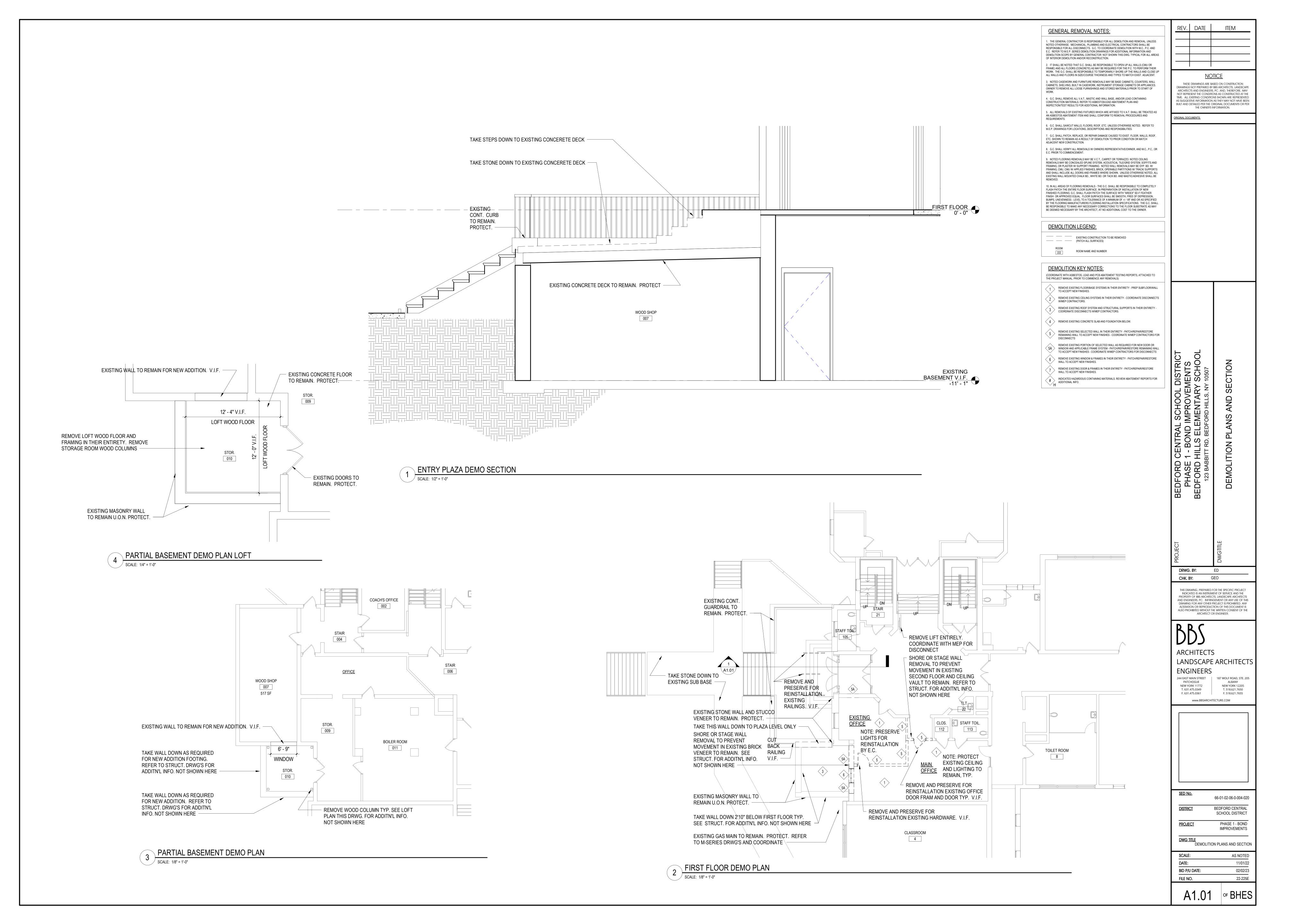
DWG TITLE
TECHNOLOGY DETAILS - VOIP

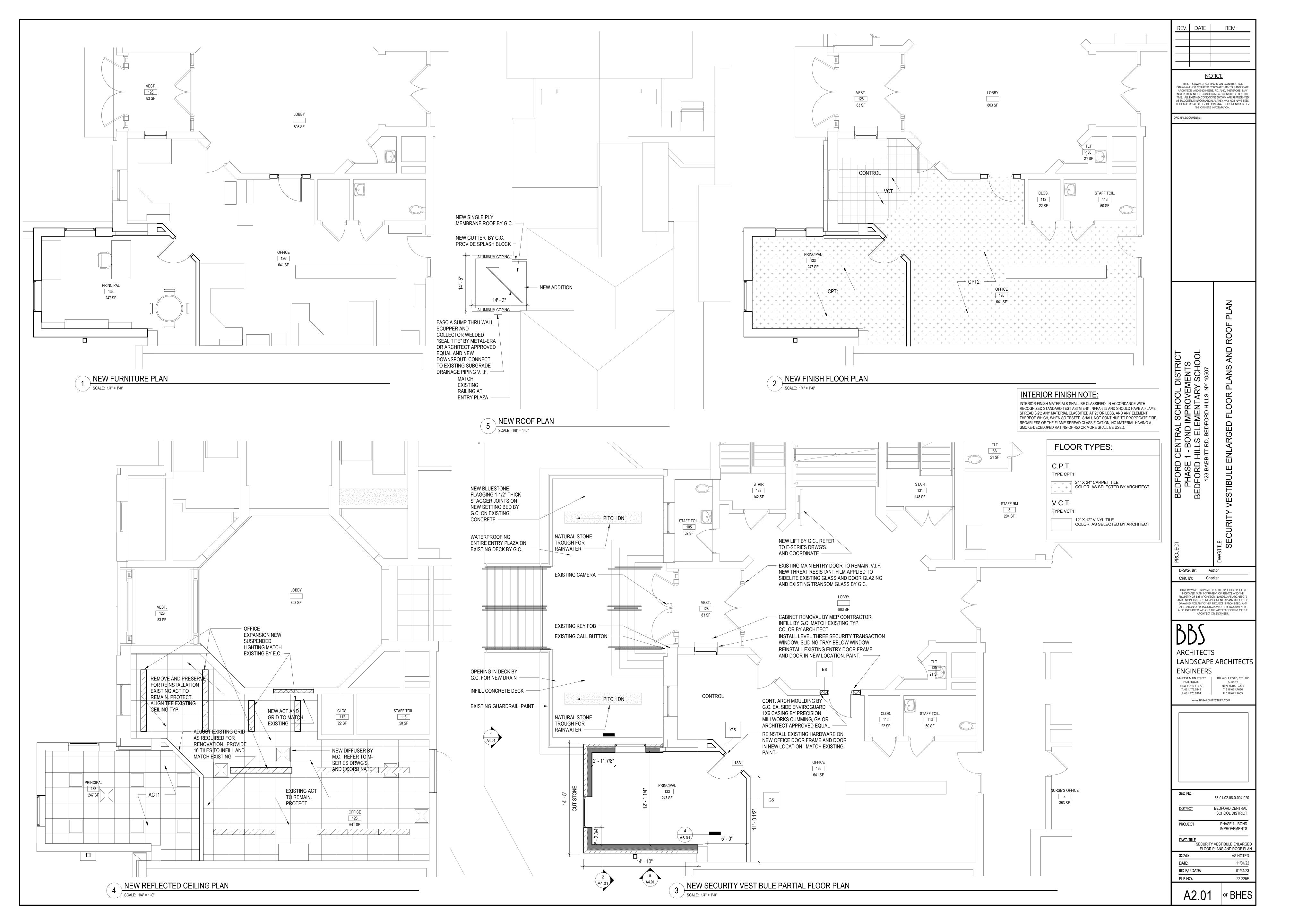
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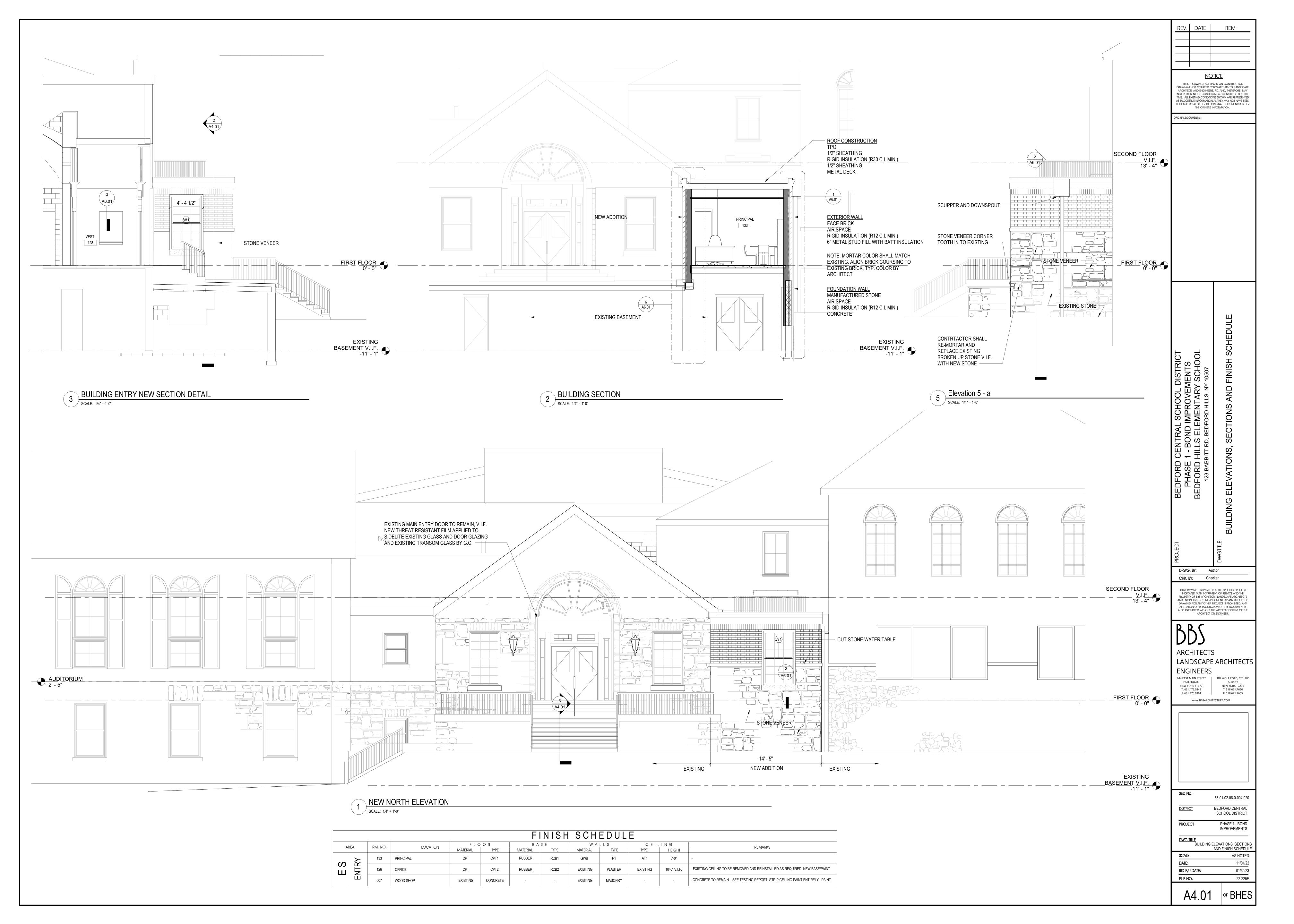
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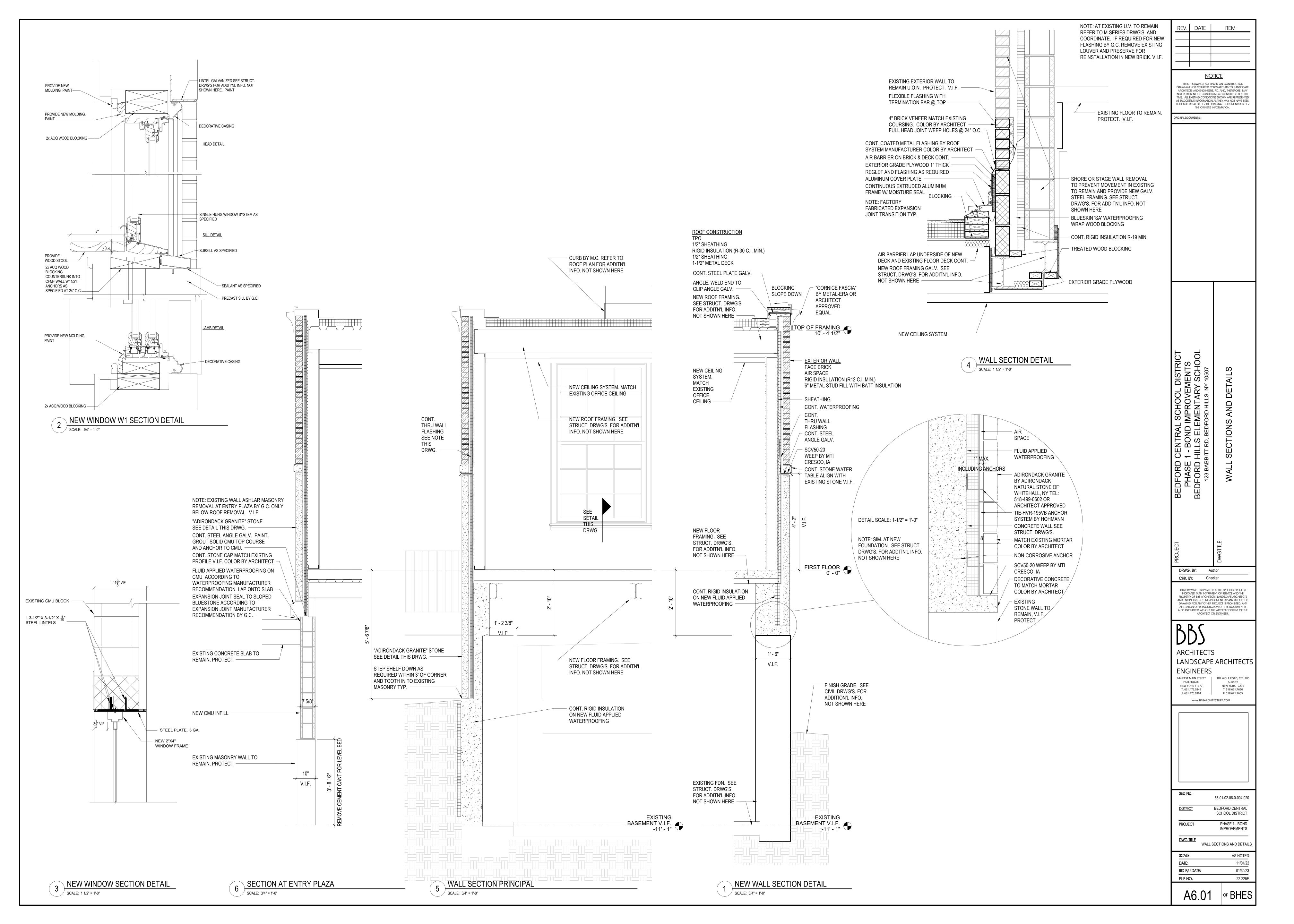
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DESIGN LOADS AND CRITERIA

- 1. DESIGN PROVISIONS: 2020 NYS BUILDING CODE
- BUILDING RISK CATEGORY, III TERRAIN EXPOSURE CATEGORY, B
- BASIC SEISMIC/MAIN WIND FORCE RESISTING SYSTEM FOR SKYLIGHT ONLY: NORTH-SOUTH, LIGHT FRAME (CFMF) WALLS SHEATHED WITH STUCTURAL PANELS RATED FOR EAST-WEST, LIGHT FRAME (CFMF) WALLS SHEATHED WITH STRUCTURAL PANELS RATED FOR
- 2. ROOF DEAD LOAD, 20 PSF (TYPICAL)

PORTION OF ABOVE ROOF DEAD LOAD FOR MECHANICAL EQUIPMENT AND PIPING SUSPENDED FROM STRUCTURAL FRAMING, 5 PSF

CONCENTRATED LOADS SHALL BE LIMITED TO THOSE WHICH INDUCE MOMENTS AND SHEARS IN MEMBERS NOT GREATER THAN THOSE INDUCED BY THE NOTED UNIFORMLY DISTRIBUTED LOADS.

- ROOF LIVE LOAD, 20 PSF (TYPICAL)
- GROUND SNOW LOAD (Pg), 30 PSF FLAT ROOF SNOW LOAD (Pf), 35 PSF
- EXPOSURE FACTOR (C_E), 1.0 THERMAL FACTOR (C_t), 1.0 IMPORTANCE FACTOR (I_s), 1.1 RAIN LOAD (PONDING), NOT APPLICABLE RAIN-ON-SNOW SURCHARGE, NOT APPLICABLE
- DRIFTED, UNBALANCE AND SLIDING SNOW LOADS AS INDICATED IN AMERICAN SOCIETY OF CIVIL ENGINEERS STANDARD ASCE 7-16.

WIND LOAD:

BASIC WIND SPEED, 125 MPH EXPOSURE CATEGORY, B TOPOGRAPHIC FACTOR, 1.0 HEIGHT OF MAIN ROOF, 15 FEET

SEISMIC LOADS:

RISK CATEGORY, III SITE CLASS, D SHORT-PERIOD ACCELERATION (S_{ds}), 0.289 g ONE-SECOND ACCELERATION (S_{d1}), 0.096 g SEISMIC DESIGN CATEGORY, B SEISMIC IMPORTANCE FACTOR (I_s), 1.25

STRUCTURAL MATERIALS STRUCTURAL STEEL AND MISCELLANEOUS STEEL ROLLED STEEL W SHAPES: ASTM A 992 ROLLED STEEL C, MC SHAPES: ASTM A 36 ROLLED STEEL PLATES, BARS, AND ANGLES: ASTM A 36 HOLLOW STRUCTURAL SECTIONS (HSS): ASTM A 500 GRADE B OR C STEEL PIPE: ASTM A 53, TYPE E OR S, GRADE B HIGH-STRENGTH BOLTS: ASTM A 325 OR ASTM A 490 SHEAR CONNECTORS: ASTM A 108, GRADES 1010 THROUGH 1020 HEADED-STUD TYPE UNHEADED ANCHOR RODS: ASTM F 1554

THREADED ANCHORS: ASTM A 36 WELD ELECTRODES: AWS E70XX FOR CONNECTIONS, PROVIDE HIGHER GRADE OR AS REQUIRED FOR CAPACITY.

POWDER ACTUATED FASTENERS (PAF): HILTI 0.177 DIA DS/EDS ADHESIVE ANCHORS (SOLID CONC OR MASONRY): HILTI HIT HY 200

AIR ENTRAINMENT. 5 % ± 1 %

FOOTINGS, FOUNDATION WALLS, PIERS, GRADE BEAMS, MISC: 28 DAY COMPRESSIVE STRENGTH, f'c= 3,000 PSI SLUMP, 3 TO 5 INCHES

INTERIOR SLABS ON GRADE AND SLABS ON DECK:

28 DAY COMPRESSIVE STRENGTH, f'c = 3,500 PSI SLUMP, 3 TO 5 INCHES

AIR ENTRAINMENT, 3 % (MAX). DO NOT ADD AIR ENTRAINING ADMIXTURE. AIR ENTRAINMENT OCCURS AS A RESULT OF MIXING.

SEE SPECIFICATIONS AND NOTES FOR ADDITIONAL INFORMATION.

CONCRETE BLOCK: ASTM C 90, 2,800 PSI NET COMPRESSIVE STRENGTH, MORTAR - ASTM C 270, TYPE S UNIT MASONRY: ASTM C 90 CMU, 2,800 PSI NET COMPRESSIVE STRENCTH, MORTAR - ASTM C 270, TYPE S, GROUT: ASTM C 476, 2,500 PSI COMPRESSIVE STRENGTH, 8 TO 10 INCH SLUMP

REINFORCING, CONCRETE OR MASONRY: ASTM A 615. GRADE 60

DIMENSION LUMBER:

STUDS, NO. 1/NO. 2 OR BETTER, SPRUCE-PINE-FIR (SPF) STRUCTURAL FRAMING, NO. 1/NO. 2 OR BETTER, SPRUCE-PINE-FIR (SPF)

ENGINEERED LUMBER:

LAMINATED VENEER LUMBER (LVL), MICROLAM AS MANUFACTURER BY ILEVEL. PREMANUFACTURED I-JOISTS, TJI AS MANUFACTURED BY ILEVEL.

GENERAL NOTES:

- 1. DIMENSIONS TO, OF, AND IN EXISTING STRUCTURE SHALL BE VERIFIED IN FIELD BY CONTRACTOR.
- 2. DO NOT SCALE DRAWINGS. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES IN DIMENSIONS BETWEEN THE EXISTING CONDITIONS, ARCHITECTURAL DRAWINGS, AND STRUCTURAL
- 3. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
- 4. SECTIONS, AND DETAILS SHOWN ARE TYPICAL.. SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS, UNLESS OTHERWISE INDICATED.
- 5. THE NOTES ON THIS DRAWING ARE TYPICAL UNLESS OTHERWISE INDICATED.
- 6. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES BEFORE COMMENCING WORK. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR DAMAGES WHICH MIGHT BE OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE EXISTING UTILITIES.
- 7. CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF PROPOSED DEVIATIONS OR SUBSTITUTIONS FROM DIMENSIONS, MATERIALS, OR COMPONENTS SHOWN ON THE DRAWINGS AND MAKE ONLY THOSE DEVIATIONS OR SUBSTITUTIONS ACCEPTED BY THE ENGINEER.
- 8. DO NOT SUSPEND MECHANICAL, ELECTRICAL, OR PLUMBING ITEMS FROM ROOF DECK. REFER TO THE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR HANGERS AND SUPPLEMENTAL FRAMING REQUIRED TO ATTACH THESE ITEMS TO THE MAIN ROOF FRAMING.
- 9. BRACE BUILDING UNTIL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: FLOOR DECK, ROOF DECK, SHEAR WALLS, MOMENT FRAMES, BRACING MEMBERS, AND CONNECTIONS.
- 10. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SAFETY.
- 11. REFER TO ARCHITECTURAL DRAWINGS FOR DEMOLITION AND REMOVALS REQUIRED FOR EXISTING
- 12. COORDINATE THE NUMBER AND LOCATION OF ROOF DRAINS AND OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- 13. COORDINATE STAIRWAYS, DIMENSIONS, AND STAIR OPENINGS WITH ARCHITECTURAL DRAWINGS AND STAIR FABRICATOR SHOP DRAWINGS.

CAST-IN-PLACE CONCRETE NOTES:

- 1. REINFORCE CONCRETE ELEMENTS INCLUDING FOOTINGS, WALLS, GRADE BEAMS, PIERS, AND SLABS REINFORCEMENT SHOWN PERTAINS TO TYPICAL CONDITIONS.
- 2. COORDINATE CONCRETE MIX DESIGNS WITH CONCRETE MIX SCHEDULE AND DESIGN DATA NOTES.
- 3. LAP SPLICE CONCRETE REINFORCEMENT AS SHOWN IN BAR LAP SPLICE SCHEDULE, UNLESS NOTED OTHERWISE. PROVIDE CLASS B LAP UNLESS NOTED OTHERWISE.
- 4. PROVIDE CORNER BARS IN CONTINUOUS FOOTINGS, THE SAME SIZE AND NUMBER AS CONTINUOUS REINFORCEMENT. LAP SPLICE WITH MAIN REINFORCEMENT AS SHOWN IN BAR LAP SPLICE SCHEDULE BUT NOT LESS THAN 2'-0".
- 5. EXTEND WALL FOOTING REINFORCEMENT INTO COLUMN FOOTINGS WITH A MINIMUM EMBEDMENT EQUAL TO THE MINIMUM BAR DEVELOPMENT LENGTH.
- CAST STEPPED FOOTINGS MONOLITHICALLY.
- 7. DOWEL CONCRETE WALLS AND PIERS INTO FOOTINGS WITH DOWELS THE SAME SIZE AND SPACING AS VERTICAL REINFORCEMENT. EXTEND DOWELS TO WITHIN 3 INCHES OF BOTTOM OF FOOTING. TERMINATED WITH ACI STANDARD 90 DEGREE HOOK. LAP SPLICE WITH VERTICAL REINFORCEMENT UNLESS NOTED OTHERWISE.
- 8. CAST CONCRETE PIERS IN CONCRETE WALLS MONOLITHICALLY WITH WALLS.

- VERIFY SIZE AND LOCATION OF MECHANICAL OPENINGS THROUGH CONCRETE MEMBERS PRIOR TO PLACING CONCRETE. PROVIDE SLEEVE OR CHASE FOR PIPING, CONDUIT, OR DUCT PENETRATIONS. CORE DRILLING IS NOT PERMITTED.
- 10. DO NOT LOCATE PENETRATIONS FOR THROUGH FOOTINGS. STEP FOOTINGS DOWN AS REQUIRED TO LOCATE PENETRATION IN WALL.
- 11. DO NOT LOCATE PENETRATIONS THROUGH PIERS, COLUMNS, BEAMS OR GRADE BEAMS UNLESS SHOWN IN DRAWINGS OR ACCEPTED BY ENGINEER.
- 12. INSTALL EMBEDDED PIPES OR CONDUIT IN STRUCTURAL CONCRETE AS FOLLOWS:
- a. ALUMINUM CONDUITS AND PIPES ARE NOT PERMITTED b. CONDUIT AND PIPE OUTSIDE DIAMETER SHALL NOT EXCEED 1/3 THE THICKNESS OF SLAB, BEAM OR WALL IN WHICH THEY ARE EMBEDDED.
- c. SPACE CONDUIT AND PIPE A MINIMUM OF 3 DIAMETERS (WIDTHS) ON CENTER OR 4 INCHES WHICHEVER IS GREATER. d. PROVIDE A MINIMUM OF 1 1/2 INCH COVER FOR CONCRETE EXPOSED TO EARTH OR WEATHER OR
- e. REFER TO ACI 318, SECTION 6.3 FOR ADDITIONAL REQUIREMENTS. 13. CHAMFER EXPOSED CONCRETE CORNERS AND EDGES 3/4 INCH UNLESS NOTED OTHERWISE.

3/4 INCH COVER OTHERWISE, UNLESS NOTED OTHERWISE.

14. CONCRETE COVER FOR REINFORCEMENT SHALL BE AS INDICATED IN CONCRETE COVER SCHEDULE.

STRUCTURAL STEEL NOTES:

- DO NOT BEGIN STEEL ERECTION UNTIL SUPPORTING CONCRETE OBTAINS 75 PERCENT OF THE MATERIAL STRENGTHS NOTED IN DESIGN DATA NOTES.
- 2. LOCATE ROOFTOP MECHANICAL UNITS AS SHOWN: COORDINATE WITH MECHANICAL DRAWINGS NOTIFY ENGINEER IF ACTUAL UNIT WEIGHTS EXCEED THE WEIGHTS SHOWN ON DRAWINGS.
- 3. WHERE BEAM SPACING IS NOT NOTED, SPACE BEAMS EQUALLY BETWEEN COLUMNS OR BETWEEN COLUMNS AND WALLS.
- MINIMUM CAPACITY OF BEAM CONNECTIONS; FOR CONNECTIONS NOT DETAILED, PROVIDE CONNECTION CAPACITY FOR REACTIONS SHOWN ON DRAWINGS OR, IF NOT SHOWN, BASED ON EITHER ALLOWABLE STRESS DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN AS FOLLOWS:
- A. AT LEAST 50 PERCENT OF THE ALLOWABLE UNIFORM LOAD FROM ALLOWABLE UNIFORM LOAD TABLES IN AISC ASD MANUAL, PART 2, FOR THE GIVEN STEEL MEMBER. B. AT LEAST 50 PERCENT OF THE MAXIMUM TOTAL FACTORED UNIFORM LOAD FROM MAXIMUM
- . FOR BEAMS AND GIRDERS WITH SHEAR CONNECTORS, PROVIDE CONNECTION CAPACITY OF AT LEAST 70 PERCENT OF THE UNIFORM LOAD VALUES (ASD OR LRFD, AS APPROPRIATE), UNLESS INDICATED OTHERWISE ON DRAWINGS.

TOTAL FACTORED UNIFORM LOAD TABLES IN AISC LRFD MANUAL, PART 5, FOR THE GIVEN STEEL

- D. CONCENTRATED LOADS NEAR SUPPORTS MUST BE ADDED.
- PROVIDE HOT DIP GALVANIZED FASTENERS FOR GALVANIZED FRAMING CONNECTIONS AND STAINLESS STEEL FASTENERS FOR STAINLESS STEEL FRAMING CONNECTIONS.
- 6. FABRICATE AND ERECT STEEL IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES.
- 7. SLOPE ROOF STEEL UNIFORMLY BETWEEN ELEVATIONS SPECIFIED ON PLANS.
- 8. REMOVE ALL PAINT AND OTHER DEBRIS FROM STEEL PRIOR TO FIELD WELDING TO STRUCTURE. FIELD WELDS AND ADJACENT AREAS SHALL BE FIELD PRIMED AFTER INSPECTED.
- 9. ALL SAFETY REGULATION AND PRECAUTIONS WITH REGARDS TO FIELD WELDING SHALL BE COMPLIED WITH TO PROTECT EXISTING CONSTRUCTION TO REMAIN, FINISHES, AND ON SITE WORKERS (SCREENS
- 10. WHERE FILLET WELD SIZES ARE NOT SPECIFICALLY NOTED, THE FABRICATOR SHALL DETAIL A MINIMUM SIZE FILLET WELD IN ACCORDANCE WITH AWS STANDARDS. THE ACTUAL SIZES SHALL BE
- SHOWN ON THE SHOP DRAWINGS. 11. BACKER BARS AT COMPLETE JOINT PENETRATION WELDS MUST BE REMOVED IF "R" IS GREATER THAN
- 12. CONNECTION DESIGN BY FABRICATOR WILL BE SUBJECT TO REVIEW BY ENGINEER. USE DOUBLE ANGLE SHEAR CONNECTIONS WITH 3/4" DIAMETER ASTM A325 BOLTS WITH AT LEAST THE FOLLOWING
- NUMBER OF BOLT ROWS: NUMBER OF BOLT ROWS BEAM SIZE W8 W10 W12, W14, W16 W18, W21, W24
- 13. DO NOT PLACE HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT UNLESS INDICATED IN STRUCTURAL DRAWINGS.
- 14. BOLTED CONNECTIONS SHALL UTILIZE TYPE 3 ASTM A 325 BOLTS, UNO. ALL CONNECTIONS SHALL BE INSTALLED SNUG TIGHT.
- 15. REMOVE BURRS, DIRT, AND OTHER FOREIGN MATERIALS FROM FRAYING SURFACES AND SURFACES ADJACENT TO BOLT HEADS AND NUTS. BURRS LESS THAN OR EQUAL TO 1/16" IN HEIGHT ARE PERMITTED TO REMAIN ON FAYING SURFACES.
- 16. FABRICATE BOLTED CONNECTIONS WITH STANDARD SIZED HOLES, UNLESS NOTED OTHERWISE.
- 17. COMPLY WITH AISC SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTED CONNECTIONS.

SLAB ON DECK NOTES:

- 1. FLOOR DECKS SHALL BE 2" X 20 GAGE COMPOSITE GALVANIZED (G90) STEEL DECK. FLOOR DECK SHALL BE FASTENED TO STRUCTURAL STEEL WITH 5/8" DIAMETER PUDDLE WELDS. FASTENER PATTERN SHALL BE XX/X WITH (X) #10 TEK SCREW SIDELAP FASTENERS PER SPAN. DECK SHALL BE WELDED TO ALL PERIMETER SUPPORT STEEL WITH 5/8 INCH DIAMETER PUDDLE WELDS AT A MAXIMUM SPACING OF 12 INCHES ON CENTER.
- CONCRETE FLOOR DECKS SHALL BE NORMAL WEIGHT CONCRETE, UNLESS NOTED OTHERWISE. PROVIDE #4 AT 16 INCHES ON CENTER, EACH WAY UNLESS NOTED OTHERWISE.
- 3. CONTRACTOR SHALL COORDINATE AND LOCATE ALL FLOOR OPENINGS WITH THE MECHANICAL AND ARCHITECTURAL DRAWINGS. PROVIDE SUPPORT FRAMING AROUND OPENINGS GRATER THAN 6 INCHES BY 6 INCHES AS SHOWN IN DETAIL XX/XX.
- 4. DECK HAS BEEN DESIGNED TO BE UNSHORED DURING CONCRETE PLACEMENT. DO NOT OVERLOAD DECK DURING CONSTRUCTION.
- 5. INSTALL DECK IN ACCORDANCE WITH THE SDI MANUAL OF CONSTRUCTION W/STEEL DECK.
- 6. SHEAR STUDS SHALL BE MINIMUM OF 3/4 INCH DIAMETER UNIFORMLY SPACED ALONG BEAM LENGTH. DO NOT INSTALL STUDS AT DECK HI-HAT LOCATIONS. SEE SPECIFICATIONS FOR ADDITIONAL
- 7. PROVIDE ALL NECESSARY ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
- 8. STEEL FLOOR STRUCTURE WILL DEFLECT UNDER WEIGHT OF WET CONCRETE. PLACE A VARYING THICKNESS CONCRETE SLAB TO MAINTAIN REQUIRED FINISHED FLOOR ELEVATION. COMPLETELY "ROUGH-FILL" EACH BAY WITH CONCRETE BEFORE SCREEDING.
- 9. DO NOT USE EXTERIOR BEAM SCREEDS TO LEVEL SLAB. EXTERIOR BEAM WILL DEFLECT UNDER WEIGHT OF THE CONCRETE. 10. SUBMIT SLAB POUR SEQUENCE AND PROPOSED CONSTRUCTION JOINT LAYOUT FOR REVIEW PRIOR
- TO SLAB PLACEMENT. METAL DECK NOTES:
- 1. COORDINATE NUMBER AND LOCATION OF ROOF DRAINS AND DECK OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- ROOF DECK SHALL BE 1 1/2" X 20ga GALVANIZED (GGO) STEEL DECK. ROOF DECK SHALL BE FASTENED TOSTRUCTURAL STEEL WITH 5/8"Ø PUDDLE WELDS. FASTENER PATTERN SHALL BE 36/4 W/#10 TEK SCREWS SIDELAP FASTENERS PER SPAN. SIDELAP FASTENERS SHALL HAVE A MAXIMUM SPACING OF 36". DECK SHALL BE WELDED TO ALL PERIMETER SUPPORT STEEL WITH 5/8"Ø PUDDLE WELDS AT A MAXIMUM SPACING OF 12" C-C.
- 3. METAL ROOF DECKS MUST BE "WARPED" TO FOLLOW SLOPE OF ROOF PITCH INDICATED. ROOF DECK MAY REQUIRE ATTACHMENT WITH TEK SCREWS IN SOME LOCATIONS TO DRAW DECK TIGHT TO SUPPORTING STEEL MEMBERS PRIOR TO WELDING AS INDICATED ABOVE.
- 4. LAP ENDS OF DECK SHEETS A MINIMUM OF 2 INCHES. MINIMUM DECK BEARING SHALL BE 1 1/2".
- PROVIDE ALL NECESSARY ACCESSORIES INCLUDING; RIDGE PLATES, VALLEY PLATES, CELL CLOSURES, FINISH STRIPS, BUTT STRIPS, AND SUMP PANS FOR A COMPLETE INSTALLATION.

6. INSTALL DECK IN ACCORDANCE WITH THE SDI MANUAL OF CONSTRUCTION WITH STEEL DECK.

7. CONSTRUCTION LOADS SHALL NOT EXCEED LOAD RATING OF DECK.

COLD-FORMED METAL FRAMING NOTES:

- MINIMUM MEMBER MATERIAL THICKNESS IS 18 GAUGE UNLESS NOTED OTHERWISE
- 2. CUT FRAMING COMPONENTS SQUARELY OR ON AN ANGLE AS REQUIRED TO FIT TIGHTLY WITH FULL BEARING AGAINST ABUTTING MEMBERS. TEMPORARILY BRACE MEMBERS AS REQUIRED PRIOR TO FINAL FASTENING.
- 3. FIELD CUTTING OF MEMBERS SHALL BE PERFORMED BY SHEARING OR SAWING. TORCH CUTTING IS NOT ACCEPTABLE.
- 4. SPLICES ARE NOT PERMITTED IN STUDS, JOISTS, OR OTHER LOAD-CARRYING MEMBERS UNLESS CALCULATIONS AND DETAILS HAVE BEEN SUBMITTED TO ENGINEER FOR REVIEW AND ACCEPTED.
- 5. WHEN COLD-FORMED STUDS ARE TO BE USED FOR TRUSS, RAFTER, OR HEADER APPLICATIONS, STUDS SHALL BE UN-PUNCHED THROUGH THE WEB. IT IS THE RESPONSIBILITY OF THE CONTRACTOR

- TO SPECIFY UN-PUNCHED STUDS WHEN ORDERING MATERIALS.
- 6. FIELD-INSTALLED HOLES ARE NOT PERMITTED IN MEMBERS UNLESS INDICATED IN DRAWINGS.
- 7. DO NOT SCREW OR WELD STUDS TO VERTICAL DEFLECTION TRACKS. DO NOT CONNECT SHEATHING TO VERTICAL DEFLECTION TRACKS. PROVIDE GAP IN SHEATHING TO ACCOMMODATE VERTICAL
- 8. ABUTTING TRACK MEMBERS SHALL BE SPLICED TOGETHER USING A TYPICAL STUD/JOIST SCREWED TO THE TRACK ON BOTH SIDES OF JOINT. BUTT-WELDING IS ALSO ACCEPTABLE.
- 9. FOR LOAD BEARING CONSTRUCTION, THE CONTRACTOR SHALL ENSURE THAT ADEQUATE BRACING IS IN PLACE UNTIL SHEATHING IS ATTACHED TO BOTH STUD FLANGES. DO NOT OVERLOAD STUDS DURING CONSTRUCTION.
- 10. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION BRACING.
- 11. MINIMUM SCREW SPACING AND EDGE DISTANCE IS 3/4 INCH UNLESS NOTED OTHERWISE
- 12. THE FOLLOWING SHALL BE USED FOR POWDER-ACTUATED FASTENERS IN STEEL UNLESS NOTED OTHERWISE: MINIMUM EDGE DISTANCE = 1/2 INCH MINIMUM FASTENER SPACING = 1 INCH
- 13. THE FOLLOWING SHALL BE USED FOR POWDER-ACTUATED FASTENERS IN CONCRETE UNLESS NOTED OTHERWISE: MINIMUM EDGE DISTANCE = 3 INCHES
- MINIMUM FASTENER SPACING = 4 INCHES 14. WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AWS D1.3 "STRUCTURAL WELDING CODE -
- 15. MINIMUM WELD THROAT THICKNESS EQUALS THE BASE METAL THICKNESS OF THE THINNEST CONNECTED MATERIAL UNLESS NOTED OTHERWISE.
- 16. TOUCH-UP WELDS WITH GALVANIZED REPAIR PAINT.

SHEET LIST SHEET NUMBER DESIGN DATA AND GENERAL NOTES SPECIAL INSPECTION NOTES AND SCHEDULE S0.02 FOUNDATION AND FRAMING PLANS S1.00 SECTIONS AND DETAILS CFMF SECTIONS AND DETAILS

CONCRETE COVER SCHEDULE			
LOCATION	COVER		
CONCRETE CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND	3"		
CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND			
#6 BARS AND LARGER	2"		
#5 BARS AND SMALLER	1 1/2"		
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND			
SLABS, WALLS, JOIST	3/4"		
BEAMS, GIRDERS, COLUMNS, AND PIERS	1 1/2"		

CLASS B TENSION LAP SPLICE SCHEDULE									
	fc' =3,000 PSI fc' = 4,000 PSI								
DAD CIZE	TOP BAR OTHER BAR			DAD CIZE	TOP	BAR	OTHER BAR		
BAR SIZE	CASE 1	CASE 2	CASE 1	CASE 2	BAR SIZE	CASE 1	CASE 2	CASE 1	CASE 2
#3	28	42	21	32	#3	24	36	18	28
#4	37	56	28	43	#4	32	48	25	37
#5	46	69	36	53	#5	40	60	31	46
#6	56	83	43	64	#6	48	72	37	55
#7	81	131	62	93	#7	70	105	54	81
#8	93	139	71	107	#8	80	120	62	92
#9	104	157	80	120	#9	90	136	70	104

- TABULATED VALUES ARE IN INCHES.
- 2. TOP BARS ARE HORIZONTAL BARS PLACED WITH MORE THAN 12 INCHES OF FRESH CONCRETE PLACED BELOW THE DEVELOPMENT LENGTH OR SPLICE.
- 3. CASE 1 APPLIES TO CLEAR SPACING GREATER THAN OR EQUAL TO 2 BAR DIAMETERS AND COVER GREATER THAN OR EQUAL TO 1 DIAMETER. 4. CASE 2 APPLIES TO CLEAR SPACING LESS THAN 2 BAR DIAMETERS AND COVER LESS THAN 1
- 5. FOR VALUES OF COVER AND SPACING BETWEEN TABULATED VALUES USE THE LONGER LAP LENGTH. DO NOT INTERPOLATE. 6. CALCULATE CENTER TO CENTER SPACING OF BARS AT LAP SPLICE LOCATIONS.
- 7. FOR EPOXY COATED BARS INCREASE THE TABULATED VALUES AS FOLLOWS; TOP BARS MULTIPLY TABULATED VALUE BY 1.3, FOR OTHER BARS MULTIPLY TABULATED VALUE BY 1.5. 8. FOR LIGHTWEIGHT CONCRETE MULTIPLY TABULATED VALUE BY 1.3

CONCRETE MIX						
APPLICATION	EXPOSURE	F'c	MAXIMUM W/C RATIO	AIR CONTENT	NOMINAL MAX AGGREGATE SIZE (NOTE 4)	
FOOTINGS	F0	3,000 PSI	SEE NOTE 2	4.5% ± 1.5%	1 INCH	
EXT SLAB ON GRADE	F1	4,500 PSI	0.45	4.5% ± 1.5%	1 INCH	
SLAB ON GRADE	F0	3,000 PSI	SEE NOTE 2	SEE NOTE 3	1 INCH	
FOUNDATION WALLS	F0	3,000 PSI	SEE NOTE 2	4.5% ± 1.5%	3/4 INCH	
SITE WALLS	F1	4,000 PSI	0.45	4.5% ± 1.5%	3/4 INCH	
SLAB ON DECK	F0	3,500 PSI	SEE NOTE 2	SEE NOTE 3	3/4 INCH	
PIERS	F0	3,000 PSI	SEE NOTE 2	4.5% ± 1.5%	3/4 INCH	

1. EXPOSURE CATEGORIES AND CLASSES FOR SULFATES, PERMEABILITY AND CORROSION

- PROTECTION OF REINFORCEMENT IS CLASS ZERO UNLESS NOTED OTHERWISE. 2. WHERE NO MAXIMUM WATER TO CEMENT RATIO IS NOTED, PROPORTION WATER TO CEMENT RATIO FOR SPECIFIED CONCRETE MIX DESIGN STRENGTH.
- 3. DO NOT AIR ENTRAIN INTERIOR SLABS ON GRADE OR SLABS ON METAL DECK. AIR ENTRAINMENT IS NOT PERMITTED FOR CONCRETE TO RECEIVE HARD TROWEL FINISH AND ENTRAPPED AIR SHALL NOT EXCEED 2%. SLABS SHALL BE FINISHED TO AVOID SURFACE IMPERFECTIONS, INCLUDING BLISTERING AND DELAMINATION.
- 4. COARSE AGGREGATE SHALL BE ASTM C33 MEETING GRADATION REQUIREMENTS TYPE 57 FOR 1-INCH MAXIMUM AGGREGATE SIZE AND TYPE 67 FOR 3/4-INCH MAXIMUM AGGREGATE SIZE. 5. MAXIMUM CONCRETE UNIT WEIGHT NOT TO EXCEED 150 POUNDS PER CUBIC FEET.

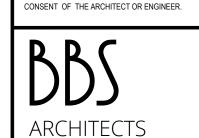
		AB	BREVIATIONS	,	
ADDL	ADDITIONAL	ENGR	EDGE OF DECK	OPP	OPPOSITE
ADJ	ADJACENT	FD	FLOOR DRAIN	OF	OUSIDE FACE
APPROX	APPROXIMATE	FT	FOOT		
ARCH	ARCHITECTURAL	FDN	FOUNDATION	PL	PLATE
AESS	ARCHITECTURAL EXPOSED STRUCTUAL STEEL	FTG	FOOTING	PAF	POWDER ACTUATED FASTENER
		GALV	GALVANIZED	PE	PROFESSIONAL ENGINEE
B/ , BO	BOTTOM OF	GA	GAUGE	PERP	PERPENDICULAR
BLDG	BUILDING			PLF	POUNDS PER LINEAL FOO
BLKG	BLOCKING	HSS	HOLLOW STEEL SECTION	PSF	POUNDS PER SQUARE FOO
BP	BASEPLATE	HORIZ		PSI	POUNDS PER SQUARE IN
BRG	BEARING	HI	HIGH	PCF	POUNDS PER CUBIC FOO
BTWN	BETWEEN	HP	HIGH POINT	PC	PRECAST
DIVVIA	DETVVELIV			PSL	PARALLEL STRAND LUMB
CANT	CANTILEVER	HVAC	HEATING, VENTILATION, AIR CONDITIONING	PT	PRESSURE TREATED
CIP	CANTILEVER CAST IN PLACE	IF	INSIDE FACE	1 1	I NEGOUNE INEATED
CJ	CAST IN PLACE CONTROL JOINT	INFO	INFORMATION	P	RADIUS
CL				R	
	CLEAR	INT	INTERIOR	RD	ROOF DRAIN
CLR	CLEAR	INV	INVERT	RDP	REGISTERED DESIGN PROFESSIONAL
CMU	CONCRETE MASONRY UNIT(S)	16	IVIDO	DECE	
	` '	K	KIPS	REQD	REQUIRED
COL	COLUMN	KSF	KIPS PER SQUARE FOOT	REINF	REINFORCING
CONC	CONCRETE			REV	REVISION
CONT	CONTINUOUS	L	ANGLE	RO	ROUGH OPENING
CFMF	COLD-FORMED	LBS	POUNDS		
	METAL FRAMING	LG	LONG	SIM	SIMILAR
COORD	COORDINATE	LLH	LONG LEG HORIZONTAL	SPA	SPACE
		LLV	LONG LEG VERTICAL	STD	STANDARD
DET	DETAIL	LO	LOW	SF	SQUARE FEET
DIA	DIAMETER	LOC	LOCATION	SS	STAINLESS STEEL
DIM	DIMENSION	LW	LIGHT WEIGHT	STL	STEEL
DN	DOWN	LVL	LAMINATED VENEER	SQ	SQUARE
DO	DITTO	LVL	LUMBER		
DWLS	DOWELS			THK	THICK
DWG	DRAWINGS	MFR	MANUFACTURER	T/ , TO	TOP OF
		MAX	MAXIMUM	TYP	TYPICAL
EA	EACH	MIN	MIN	T&B	TOP AND BOTTOM
EF	EACH FACE	MECH	MECHANICAL		
ES	EACH SIDE	MISC	MISCELLANEOUS	UNO	THICK
EL	ELEVATION	МО	MASONRY OPENING		
ELEV	ELEVATOR			VERT	VERTICAL
EOS	EDGE OF SLAB	NA	NOT APPLICABLE	VIF	VERIFY IN FIELD
EOD	EDGE OF DECK	NIC	NOT IN CONTRACT		
EQ	EQUAL	NOM	NOMINAL	W	WIDTH, WIDE
EQUIP	EQUIPMENT	NW	NORMAL WEIGHT	W/	WITH
EW	EACH WAY	NS	NEAR SIDE	WD	WOOD
EXIST	EXIST	NTS	NOT TO SCALE	WP	WORK POINT
EXT	EXTERIOR	1110	HOTTO SUALL	WWF	WELDED WIRE FABRIC
LAI		00	ON CENTER		
EIFS	EXTERIOR INSULATION FINISH SYSTEM	OC OD	OUTSIDE DIAMETER	WCJ	WALL CONTROL JOINT
EXP	EXPANSION	OPNG	OPENING		

ESE DRAWINGS ARE BASED ON CONSTRUCTION DRAWINGS N REPARED BY BBS ARCHITECTS, LANDSCAPE ARCHITECTS AN ONDITIONS AS CONSTRUCTED AT THE TIME. ALL EXIS INFORMATION AS THEY MAY NOT HAVE BEEN BUILT AND DETAIL

REV. DATE



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SED No. 66-01-02-06-0-004-020 BEDFORD CENTRAL SCHOOL DISTRICT PHASE 1 - BOND **IMPROVEMENTS** DESIGN DATA AND **GENERAL NOTES** SCALE: AS NOTED 10/19/22

BID PICK-UP:

22-225E

STATEMENT OF SPECIAL INSPECTIONS: **SPECIAL INSPECTION NOTES**:

- 1. THE SCHEDULE OF SPECIAL INSPECTIONS, ASSOCIATED NOTES AND SPECIFICATION SECTION 01420 INDICATE THE REQUIRED STRUCTURAL TESTS AND INSPECTIONS FOR THE PROJECT AND SHALL BE CONSIDERED THE STATEMENT OF SPECIAL INSPECTIONS. THE FOLLOWING TYPES OF CONSTRUCTION REQUIRE INSPECTION:
- A. CAST-IN-PLACE CONCRETE
- B. COLD FORMED FRAMING C. STRUCTURAL STEEL
- 2. THE OWNER WILL ENGAGE THE SERVICES OF A QUALIFIED SPECIAL INSPECTOR FOR THIS PROJECT, WHO WILL PROVIDE AND/OR COORDINATE INSPECTION AND TESTING REQUIREMENTS IN ACCORDANCE WITH THE PROVISIONS OF CHAPTER 17 OF THE "2015 INTERNATIONAL BUILDING CODE".
- 3. THE QUALIFICATIONS OF ALL PERSONNEL PERFORMING SPECIAL INSPECTIONS AND TESTING SHALL MEET THE MINIMUM QUALIFICATIONS FOR SPECIAL INSPECTIONS IDENTIFIED IN THE "2015 INTERNATIONAL BUILDING CODE". ALL PERSONNEL PERFORMING SPECIAL INSPECTIONS AND TESTING ARE SUBJECT TO THE APPROVAL OF THE CODE ENFORCEMENT OFFICIAL. SUBMIT CREDENTIALS OF SPECIAL INSPECTORS AND TESTING TECHNICIANS SHALL FOR REVIEW WHEN
- 4. THE CONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING AT LEAST 7 DAYS PRIOR TO THE START OF CONSTRUCTION TO REVIEW THE REQUIRED SPECIAL INSPECTION AND TESTING REQUIREMENTS, NOTIFICATIONS, AND REPORTING PROCEDURES FOR THE PROJECT. ATTENDEES SHALL INCLUDE THE REGISTERED DESIGN PROFESSIONAL FOR STRUCTURAL ENGINEERING AND FOR ARCHITECTURE, OWNER OR OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, TESTING AGENCY, AND AFFECTED SUB-CONTRACTORS. THE CONTRACTOR SHALL DISTRIBUTE CONSTRUCTION SCHEDULES TO EACH ATTENDEE.
- 5. SPECIAL INSPECTIONS AND TESTING SHALL BE PERFORMED ON A CONTINUOUS OR PERIODIC BASIS DURING THE PERFORMANCE OF THE WORK, AS INDICATED IN THE SCHEDULE. CONTINUOUS AND PERIODIC INSPECTIONS SHALL BE DEFINED AS

-CONTINUOUS SPECIAL INSPECTION IS THE FULL TIME OBSERVATION OF WORK WHILE THE WORK IS BEING PERFORMED.

-PERIODIC SPECIAL INSPECTION IS THE PART-TIME OBSERVATION OF WORK WHILE THE WORK IS BEING PERFORMEND OR AFTER IT HAS BEEN COMPLETED.

- 6. THE CONTRACTOR SHALL NOTIFY THE SPECIAL INSPECTOR OR TESTING AGENCY AT LEAST 48 HOURS IN ADVANCE OF A REQUIRED INSPECTION OR TEST.
- 7. THE SPECIAL INSPECTOR OR TESTING AGENCY SHALL SUBMIT INTERIM REPORTS TO THE REGISTERED DESIGN PROFESSIONAL, CODE ENFORCEMENT OFFICIAL, AND SPECIAL INSPECTOR (IF PREPARED BY A TESTING AGENCY) WITHIN 7 DAYS OF INSPECTION. REPORTS SHALL BE SIGNED BY THE PERSON PERFORMING THE INSPECTION OR TEST AND THE PERSON SUPERVISING.
- 8. AT THE COMPLETION OF SPECIAL INSPECTIONS, A FINAL REPORT OF SPECIAL INSPECTIONS SHALL BE PREPARED BY THE SPECIAL INSPECTOR AND EACH TESTING AGENCY PERFORMING INSPECTIONS. THE FINAL REPORT SHALL INDICATE THE INSPECTIONS PERFORMED, NON-CONFORMANCES HAVE BEEN REPORTED AND RESOLVED OR IDENTIFY ANY UNRESOLVED NON-CONFORMANCE ITEMS. THE FINAL REPORT SHALL BE SUBMITTED TO THE REGISTERED DESIGN PROFESSIONAL(S), CODE ENFORCEMENT OFFICIAL, AND SPECIAL INSPECTOR (IF PREPARED BY A TESTING AGENCY).
- AGENCIES INCLUDING ADVANCE NOTIFICATION OF REQUIRED INSPECTION OR TEST, INCIDENTAL LABOR, AND SAFE ACCESS TO THE WORK AREAS INCLUDING SCAFFOLDING, AND ACCESS TO CONTRACT DOCUMENTS SO THAT INSPECTIONS AND TESTING MAY BE PERFORMED WITHOUT HINDRANCE. 10. THE SPECIAL INSPECTOR SHALL NOTIFY THE CONTRACTOR IMMEDIATELY OF

9. THE CONTRACTOR SHALL COOPERATE WITH SPECIAL INSPECTOR AND TESTING

- DISCREPANCIES FOR CORRECTIVE ACTION. REPORTS SHALL NOTE WHEN AND HOW DEFICIENCIES WERE CORRECTED. ITEMS IMMEDIATELY CORRECTED AND SUBSEQUENTLY INSPECTED OR TESTED NEED NOT BE IDENTIFIED AS A NON-CONFORMANCE ITEM. 11. IF NON-CONFORMING WORK IS NOT CORRECTED WHILE SPECIAL INSPECTOR OR
- NOTIFY REGISTERED DESIGN PROFESSIONAL AND CODE ENFORCEMENT OFFICIAL WITHIN 24 HOURS AND ISSUE A REPORT NOTING THE NON-CONFORMANCE. 12. SPECIAL INSPECTOR AND EACH TESTING AGENT SHALL USE A LOG TO RECORD

TESTING AGENT IS ON SITE, SPECIAL INSPECTOR OR TESTING AGENT SHALL

- AND TRACK NON-CONFORMING WORK DURING CONSTRUCTION. AN UPDATED LOG SHALL BE ATTACHED TO EACH REPORT. NON-CONFORMANCE LOG SHALL INCLUDE THE FOLLOWING INFORMATION:
- -DESCRIPTION OF NON-CONFORMANCE -DATE OF NON-CONFORMANCE -DESCRIPTION OF RDP RESPONSE, IF RECEIVED -STATUS OF NON-CONFORMANCE: 'OPEN' OR 'CLOSED'.
- 13. IF NON-CONFORMING WORK IS NOT CORRECTED AT TIME OF SUBSTANTIAL COMPLETION OF STRUCTURE OR OTHER APPROPRIATE TIME, SPECIAL INSPECTOR SHALL NOTIFY CODE ENFORCEMENT OFFICIAL AND REGISTERED DESIGN PROFESSIONAL.
- 14. THE SPECIAL INSPECTION PROGRAM SHALL IN NO WAY RELIEVE THE CONTRACTOR OF THE OBLIGATION TO PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OR FROM IMPLEMENTING AN EFFECTIVE QUALITY CONTROL PROGRAM.
- 15. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.
- 16. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

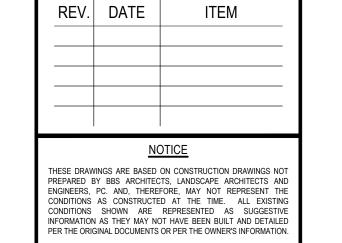
SCHEDULE OF SPECIAL INSPECTIONS:

CAST-IN-PLACE CONCRETE:

AST-IN-PLACE CONCRETE.			
INSPECTION TASK	REFERENCED STANDARD	INSPECTION FREQUENCY	TESTING/INSPECTION QUANTITY AND EXTENT
1. INSPECT REINFORCING STEEL AND PLACEMENT A. FOOTINGS, FOUNDATION WALLS, AND PIERS B. SLABS ON GRADE C. SLABS ON DECK D. SHEAR WALLS		PERIODIC PERIODIC PERIODIC PERIODIC	ALL LOCATIONS
2. INSPECT EMBEDDED BOLTS AND ANCHOR RODS PRIOR TO PLACEMENT OF CONCRETE: A. AT COLUMN BASE PLATES, BEAM POCKETS, AND ELSEWHERE WHERE RODS ARE SUBJECT TO SHEAR OR TENSION B. AT COLUMNS IN BRACED FRAMES		PERIODIC PERIODIC	ALL LOCATIONS
3. VERIFY USE OF REQUIRED DESIGN MIX		CONT	EACH PLACEMENT
 4. SAMPLE AND TEST FRESH CONCRETE: A. TAKE SIX STANDARD CYLINDERS B. RECORD TIME CONCRETE IS BATCHED, TIME CONCRETE IS SAMPLED, AND TIME THE TRUCK IS EMPTY C. PERFORM SLUMP TEST D. MEASURE AIR CONTENT E. RECORD CONCRETE AND AMBIENT AIR TEMPERATURE F. RECORD UNIT WEIGHT OF CONCRETE G. PERFORM COMPREHENSIVE STRENGTH TESTS 	ASTM C 172 ASTM C 31 ASTM C 94 ASTM C 231 ASTM C 138 ASTM C 567 ASTM C 39	CONT	EACH 50 CU. YD. OF CONCRETE OR EACH 5000 SF OF SLAB AREA FOR EACH CLASS CONCRETE EACH TRUCK ONE TEST EACH TRUCK; TWO TESTS IF CONCRETE IS PUMPED - ONE AT TRUCK AT ONE AT HOSE END EACH TRUCK EACH TRUCK TEST 2 CYLINDERS AT 7 DAYS AND AT 28 DAYS - RETAIN REMAINING CYLINDERS &
5. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	ACI 318 5.9, 5.10	CONT	TEST AS DIRECTED EACH PLACEMENT
6. INSPECT FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	ACI 318 5.11, 5.13	PERIODIC	EACH PLACEMENT
7. INSPECT AND TEST CONCRETE SLABS ON GRADE AND METAL DECK A. FLOOR FLATNESS AND LEVELNESS B. MOISTURE VAPOR EMISSION AND ALKALINITY	ASTM E 1155 ASTM F 1869 ASTM F 710	PERIODIC CONT	ENTIRE SLAB AREA 4 TESTS FOR EACH 2000 SF OF FLOOR ARI AND MINIMUM OF 4 TESTS IN EACH AREA THE BUILDING WHERE ADHERED FLOOR FINISHES ARE BEING APPLIED
8. INSPECT WELDING OF REINFORCING STEEL: A. REFER TO STRUCTURAL STEEL TABLE	AWS D1.4	PERIODIC	

INSPECTION TASK	REFERENCED STANDARD	INSPECTION FREQUENCY	TESTING/INSPECTION QUANTITY AND EXTENT
VERIFY FABRICATOR(S) MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES	AISC 360-10 CHAPTER N	PERIODIC	
2. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE	APPLICABLE ASTM MATERIAL SPECIFICATIONS; AISC 360-10, A3.3	PERIODIC PERIODIC	ALL BOLTS
3. INSPECTION OF HIGH-STRENGTH BOLTING: A. BEARING-TYPE CONNECTIONS	AISC 360-10, N5.6	PERIODIC	ALL BOLTS
4. MATERIAL VERIFICATION OF STRUCTURAL STEEL AND METAL DECK: A. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS B. MANUFACTURER'S CERTIFIED MILL	ASTM A 6 OR ASTM A 568 ASTM A 653	PERIODIC PERIODIC	ALL STRUCTURAL STEEL AND METAL DECK
TEST REPORTS REQUIRED		PERIODIC	
5. PERFORM PULL-OUT TESTS ON DRILLED-IN, ADHESIVE, EXPANSION, AND SLEEVE ANCHORS		PERIODIC	TEST 10% OF EACH ANCHOR TYPE (MINIMUM OF 2) BY APPLYING A LOAD EQUAL TO 125% OF ALLOWABLE PULL-OUT STRENGTH TEST 100% OF ANCHORS BY PULLING WITH A CLAW HAMMER USING THE WEIGHT OF ONE MAN
6. MATERIAL VERIFICATION OF WELD FILLER MATERIALS: A. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS B. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED	AISC 360-10, A3.5	CONT	ALL FILLER MATERIAL
7. INSPECTION OF WELDING OF STRUCTURAL STEEL: A. FILLET WELDS 1. SINGLE PASS (5/16 OR LESS) 2. MULTIPASS (GREATER THAN 5/16) B. METAL DECK WELDS C. SHEAR CONNECTOR WELDS. VERIFY FOR SHEAR CONNECTOR WELDS. BEND TEST BY CONTRACTOR	AISC 360-10, N5,4 & N5,5, AWS D1.1 ASTM E 709 AWS D1.1 AWS D1.3 HAMMER TEST AISC 360-10, N6	PERIODIC CONT PERIODIC PERIODIC	100% VISUAL INSPECTION AND 10% MAGNETIC PARTICLE TESTING 100% VISUAL INSPECTION
8. INSPECTION OF WELDING OF	AWS D1.4		ALL REINFORCING STEEL WELD LOCATIONS
REINFORCING STEEL: A. VERIFICATION OF WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A 706 B. REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, AND BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT	ACI 318 3.5.2	PERIODIC CONT CONT	
C. OTHER REINFORCING STEEL		PERIODIC	
 INSPECTION OF ERECTED STEEL FRAME: A. JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS B. BRACED FRAMES AND MOMENT FRAMES C. APPLICATION OF JOINT DETAILS AT EACH CONNECTION 	AISC 360-10, N5.7	PERIODIC	ENTIRE FRAME
10. INSPECTION OF ERECTED METAL DECK: A. SIZE AND SPACING OF MECHANICAL FASTENERS INCLUDING SCREWS AND POWDER-ACTUATED FASTENERS	AISC 360-10, N6	PERIODIC	ENTIRE DECK

STRUCTURAL STEEL AND METAL DECK:



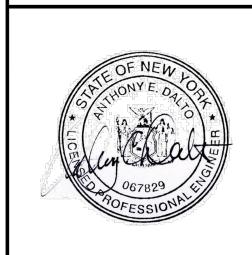


BEDFORD CENTRAL SCHOOL DISTRICT PHASE 1 - BOND IMPROVEMENTS BEDFORD HILLS ELEMENTARY SCHOOL 123 BABBITT RD, BEDFORD HILLS, NY 10507	DWG TITLE SPECIAL INSPECTION NOTES AND SCHEDULES			
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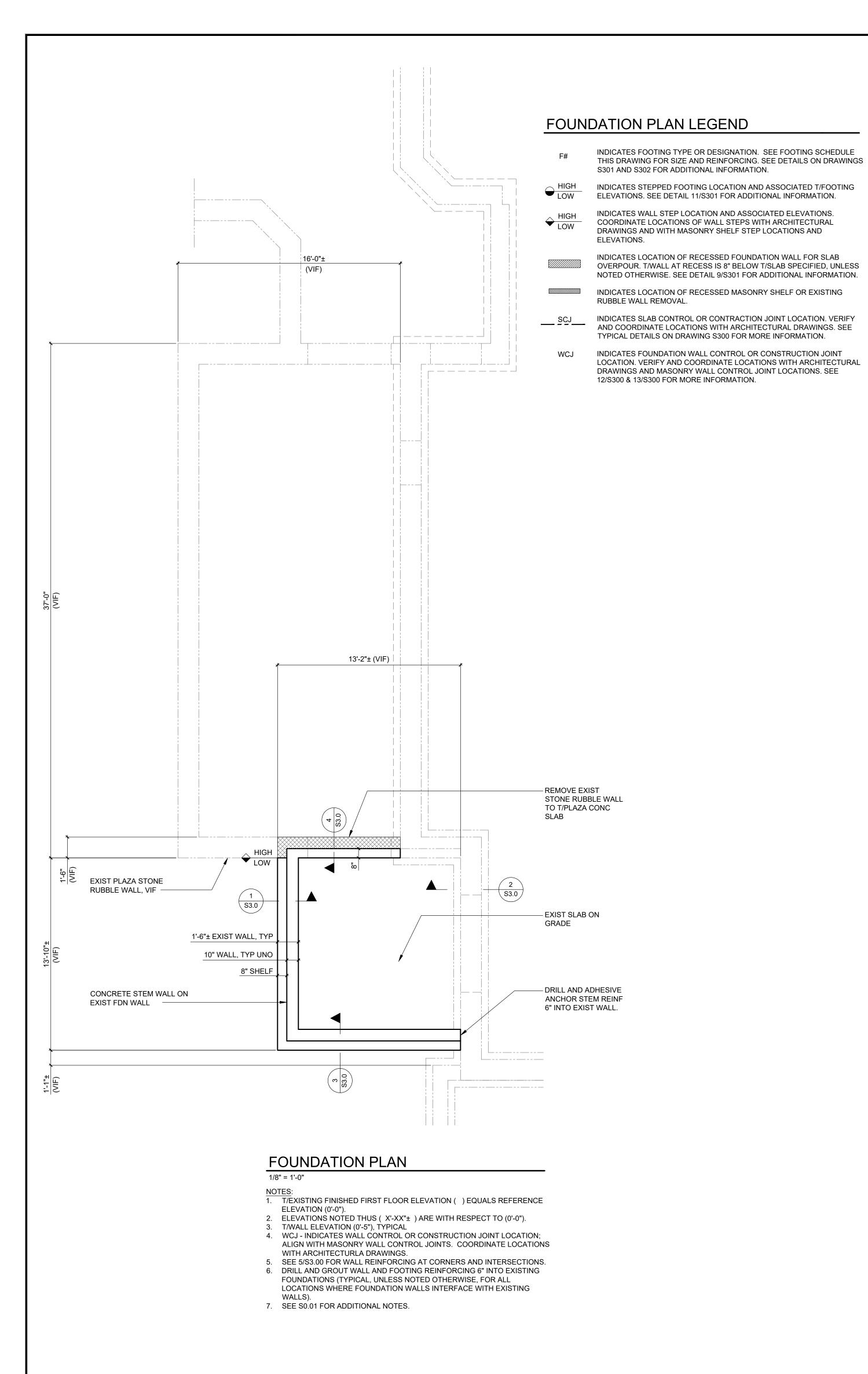
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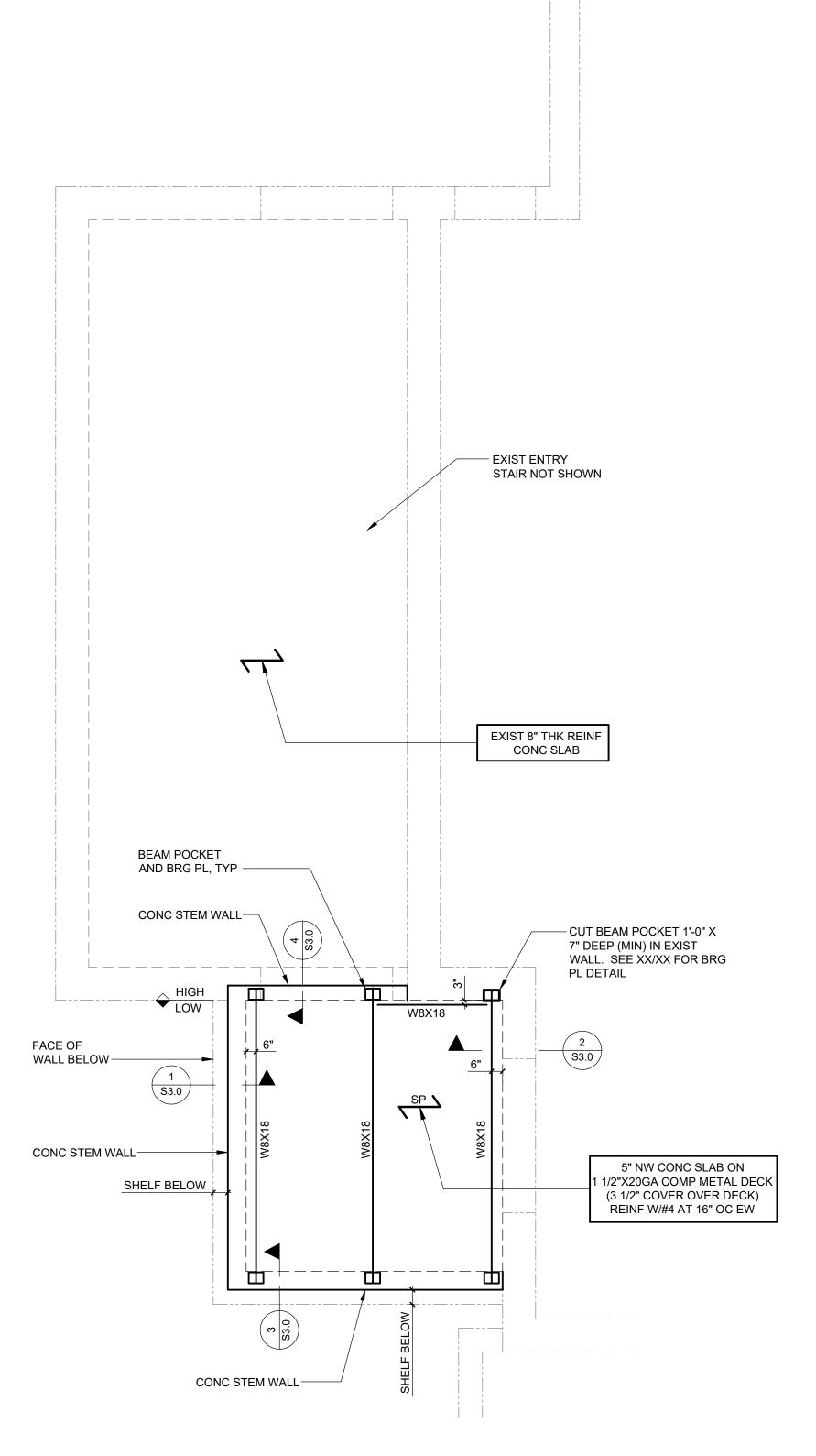
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DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
<u>PROJECT</u>	PHASE 1 - BOND IMPROVEMENTS
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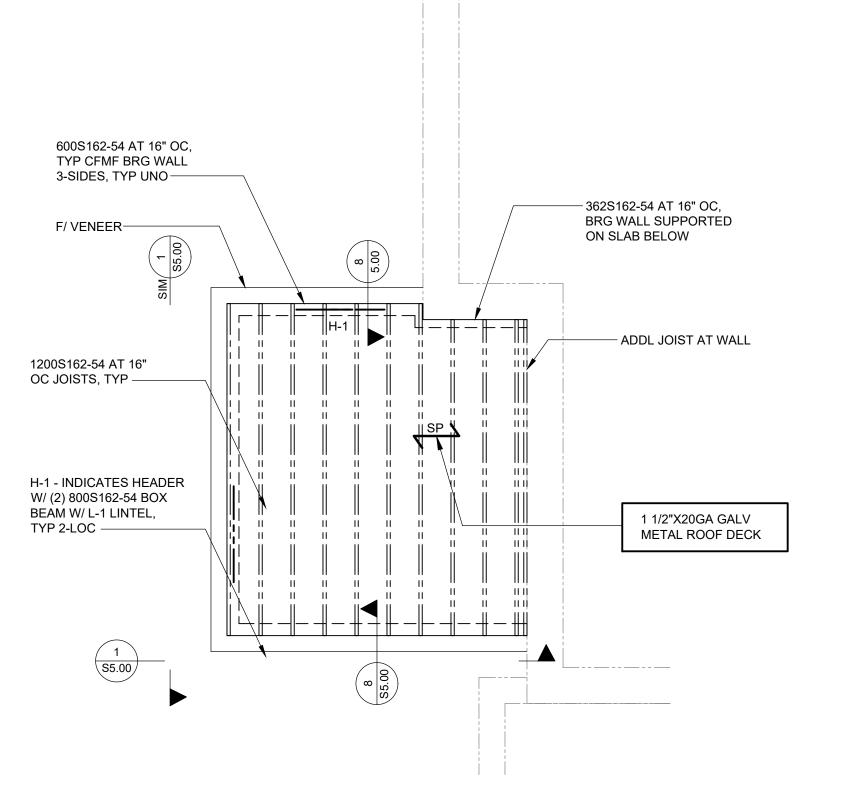




FLOOR FRAMING PLAN

1/8" = 1'-0"

- T/STEEL (B/DECK) ELEVATION (-0'-5") ABOVE REFERENCE ELEVATION (0'-0") UNLESS NOTED OTHERWISE. ELEVATIONS NOTED () ARE TO T/STEEL (B/DECK) WITH RESPECT TO ELEVATION (+).
- EQUALLY SPACE FLOOR BEAMS BETWEEN COLUMNS UNLESS NOTED
- BRGP# INDICATES BEARING PLATE. SEE S5.00 FOR DETAILS. SEE S3.00 FOR LINTEL SCHEDULE AND NOTES. NOT ALL LINTELS IN
- WALLS ARE SHOWN. 6. SEE S0.01 FOR ADDITIONAL NOTES.



ROOF FRAMING PLAN

- 1. T/STEEL (B/DECK) ELEVATION (+) ABOVE REFERENCE ELEVATION
- (0'-0") UNLESS NOTED OTHERWISE.
 2. EOD INDICATES EDGE OF DECK. 3. SEE S0.01 FOR ADDITIONAL NOTES.

BEDFORD CENTRAL PHASE 1 - BOND BEDFORD HILLS ELE 123 BABBITT RD, BEDFO	FOUNDATION AND
PROJECT	DWG TITLE
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BEDFORD CENTRAL SCHOOL DISTRICT

> PHASE 1 - BOND **IMPROVEMENTS**

FOUNDATION AND FRAMING PLANS

AS NOTED

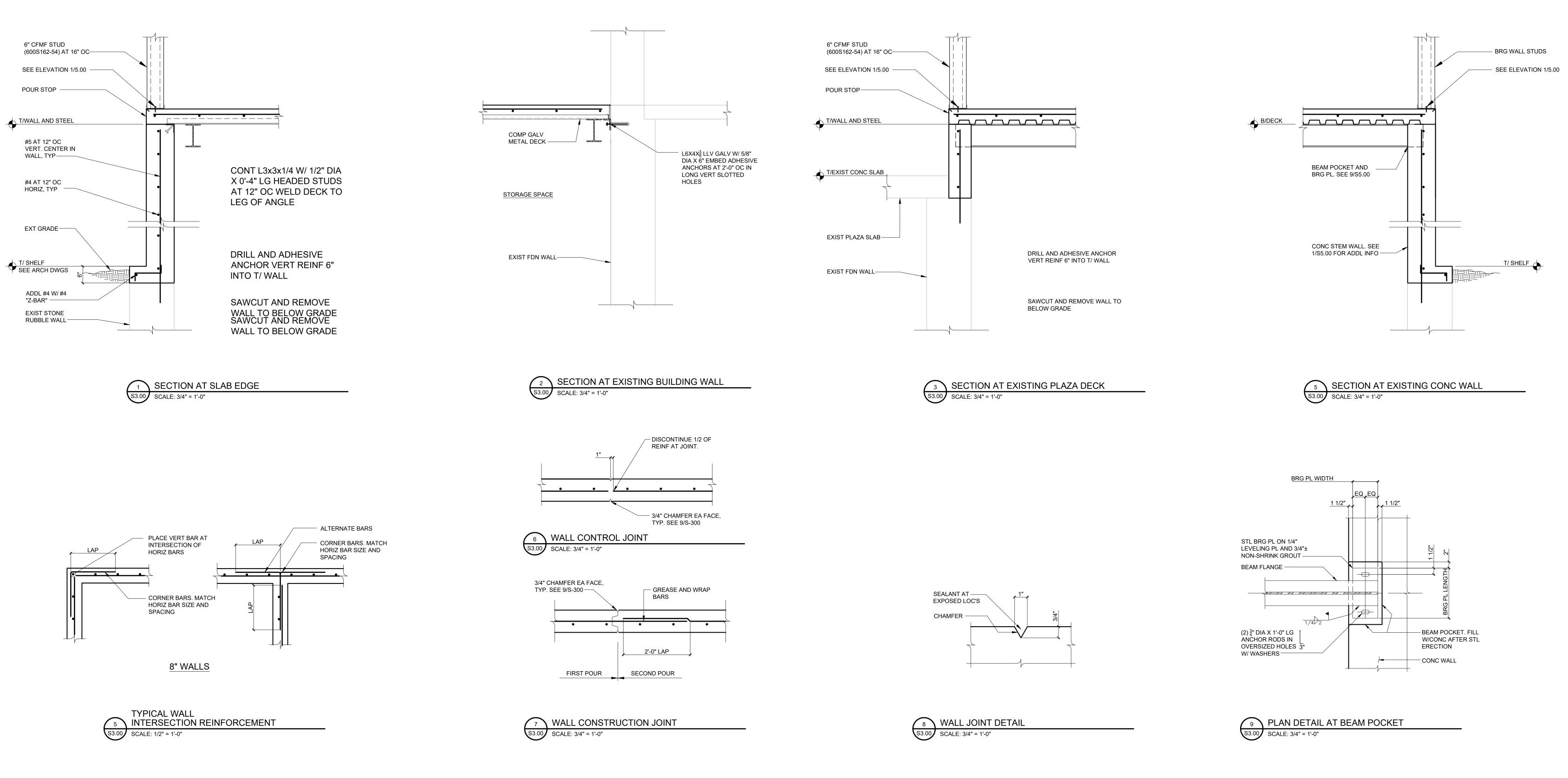
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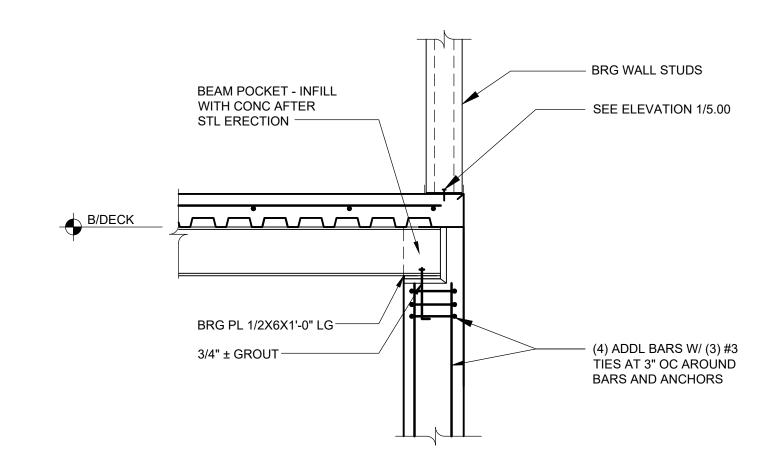
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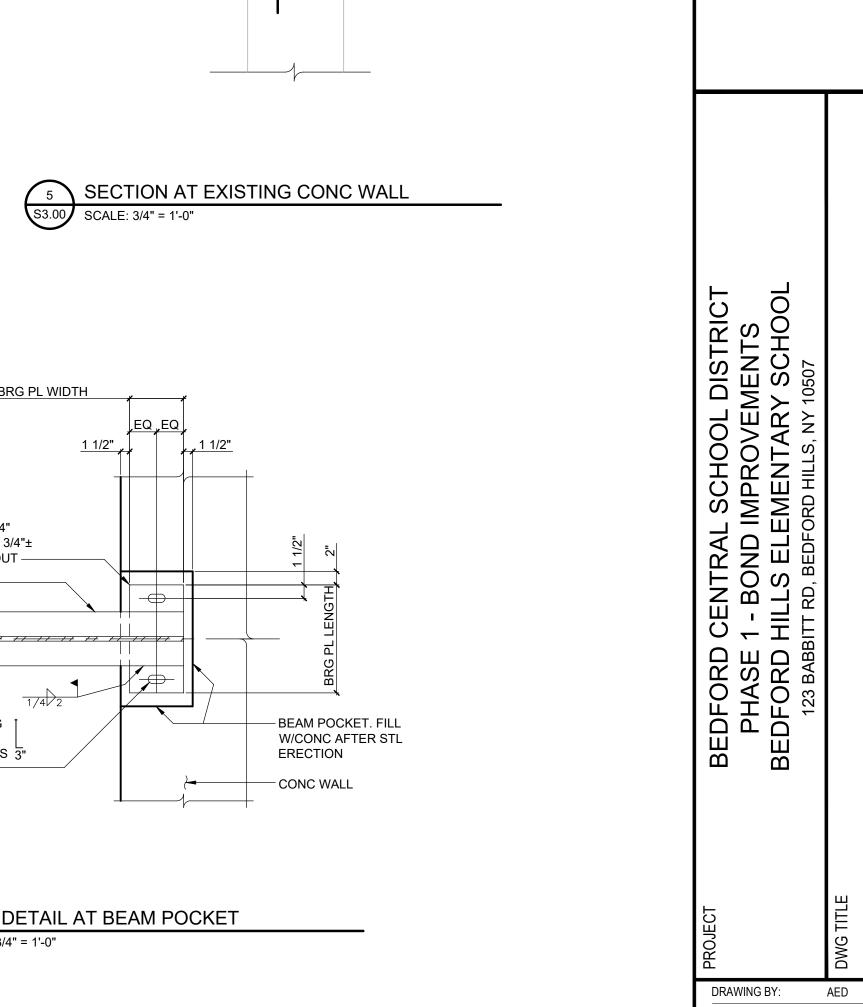


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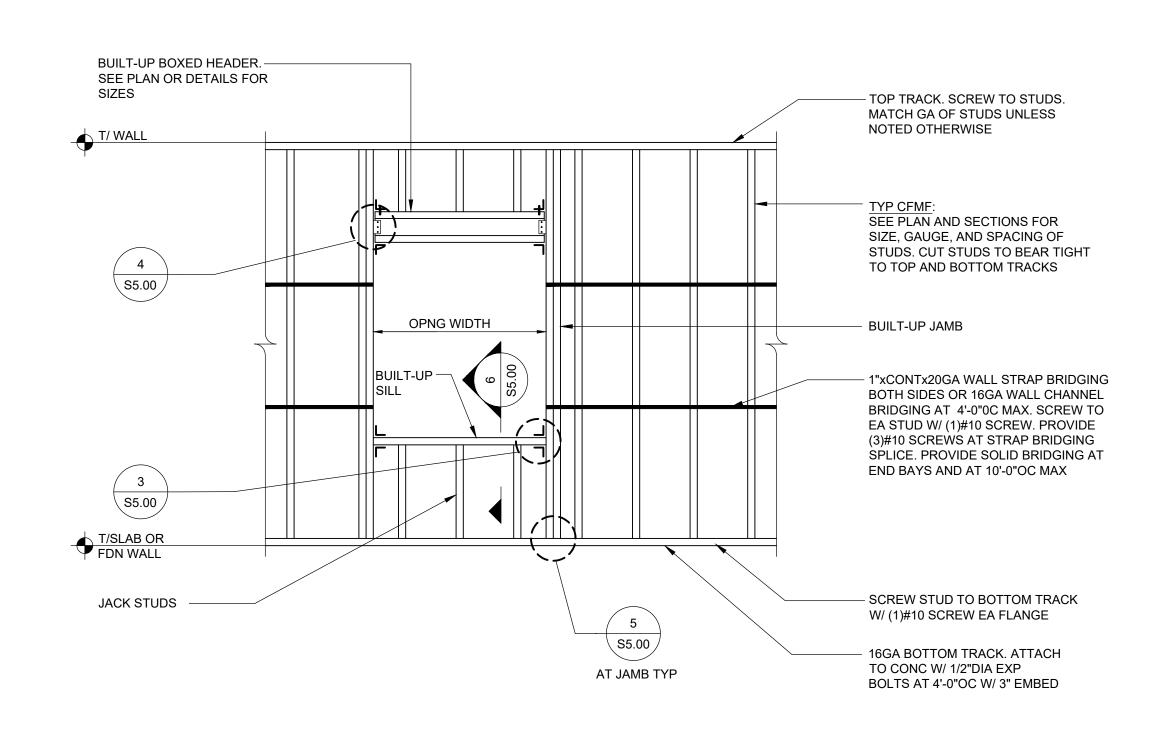
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7 Maureen Court, Clifton Park, NY
www.daltopllc.com p.518.466.3317

SECTIONS AND DETAILS

SED NO.	66-01-02-06-0-004-020			
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT			
<u>PROJECT</u>	PHASE 1 - BOND IMPROVEMENTS			
<u>DWG TITLE</u>	SECTIONS AND DETAILS			
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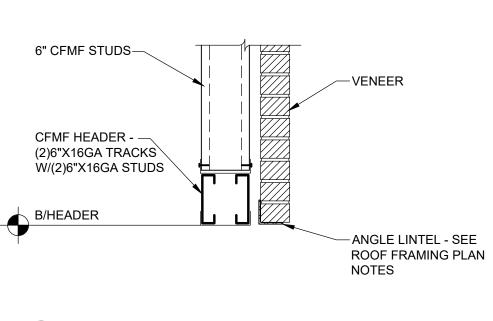
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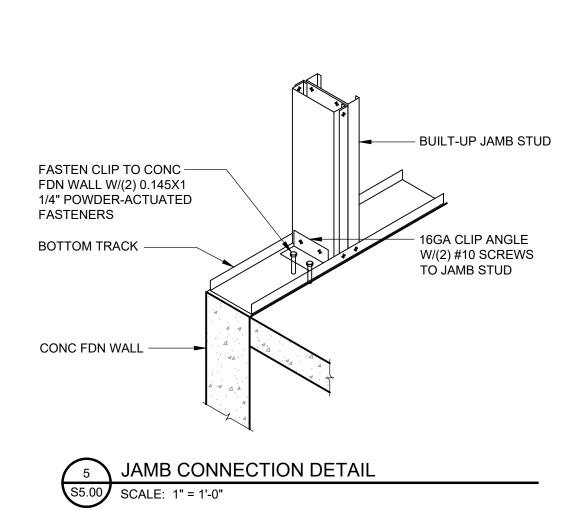


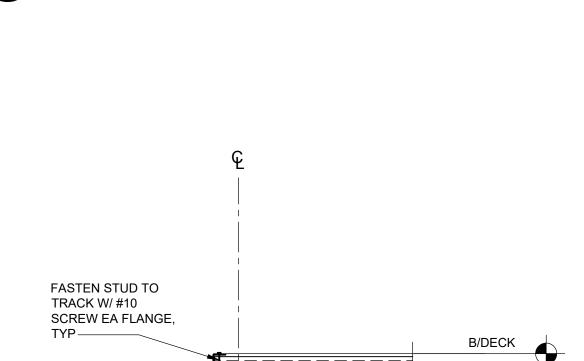
NOTES:

1. SEE ARCHITECTURAL DRAWINGS FOR OPENINGS SIZES AND LOCATIONS.
2. SEE SCHEDULE FOR HEADER AND JAMB SIZES.







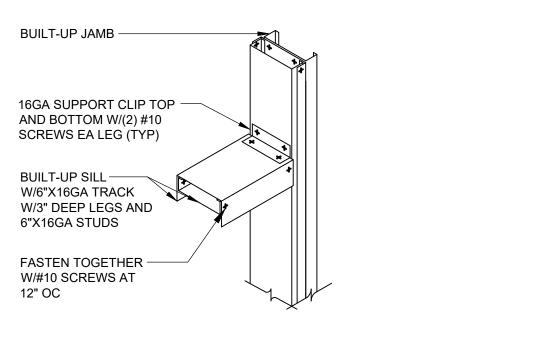


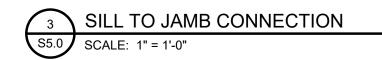
— JOIST OR BLOCKING ALIGN W/ STUDS

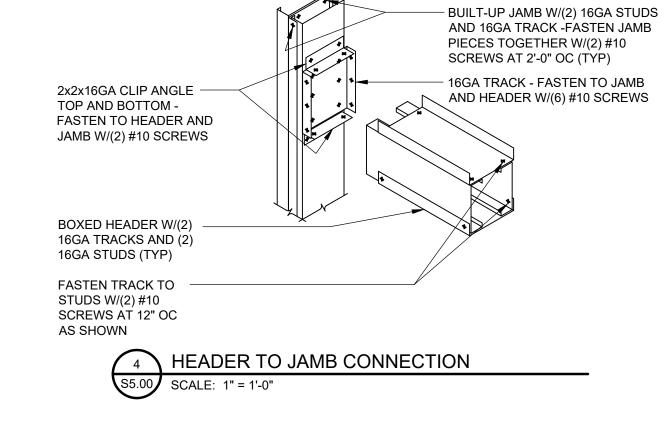


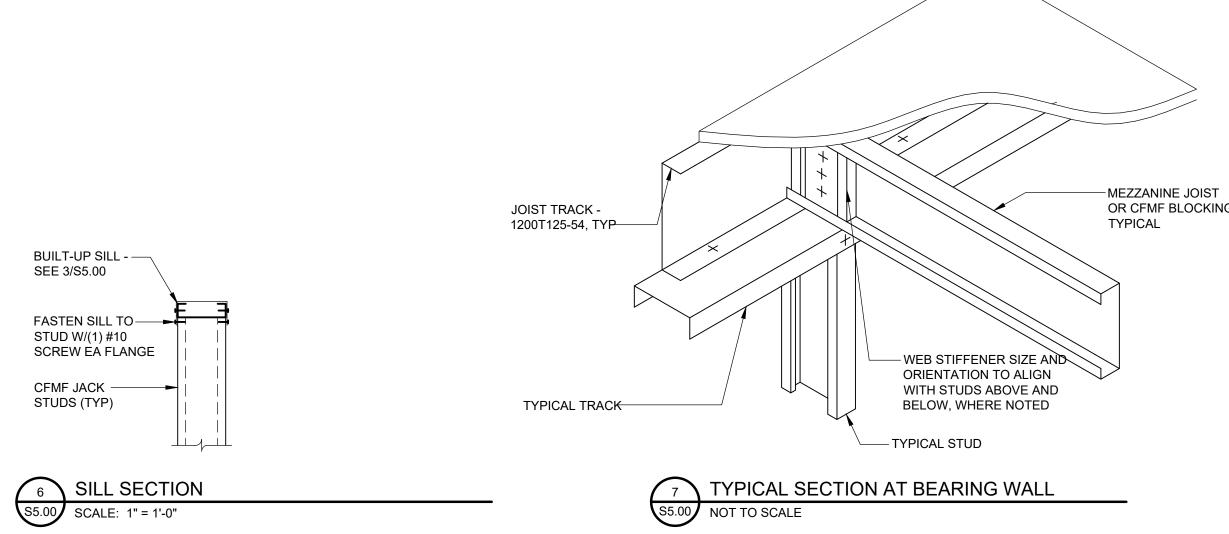
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S5.00 SCALE: 1" = 1'-0"

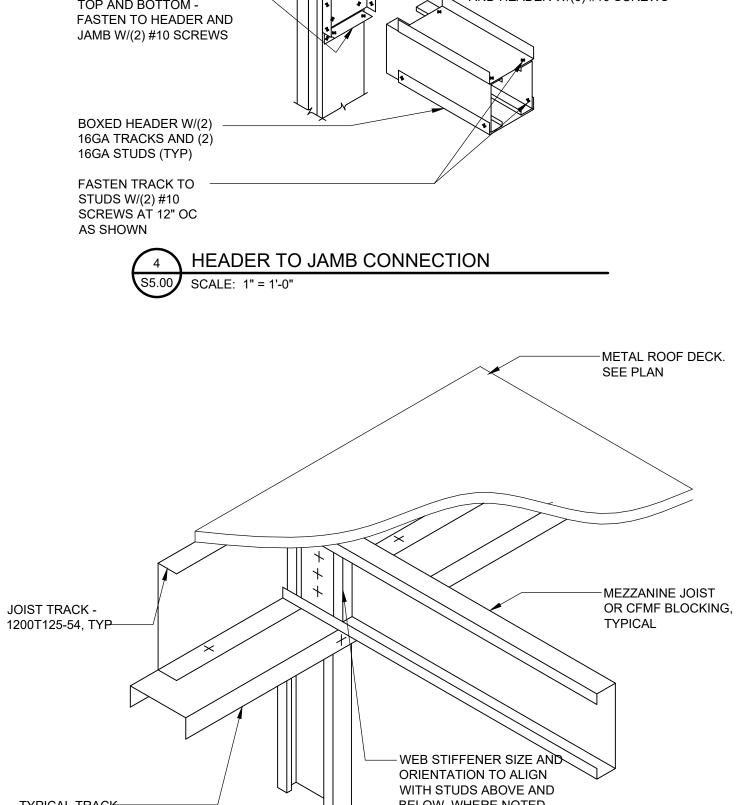








1. ALIGN WEBS OF STUDS AND JOIST MEMBERS. 2. ATTACH DECK TO JOIST AT 12" O.C. IN FIELD OF ROOF AND 6" O.C . AT PERIMETER.



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<u>SED NO.</u>	66-01-02-06-0-004-020
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 1 - BOND IMPROVEMENTS
DWG TITLE	CFMF SECTION AND DETAILS
SCALE:	AS NOTED
DATE:	10/19/22
BID PICK-UP:	
FILE No:	22-225E

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GENERAL NOTES

- REMOVAL & RELOCATION OF CERTAIN EXISTING WORK SHALL BE NECESSARY FOR THE PERFORMANCE OF THE NEW WORK SHOWN HEREIN. ALL EXISTING CONDITIONS ARE NOT COMPLETELY DETAILED ON THI DRAWINGS. THE CONTRACTOR SHALL SURVEY THE SITE & MAKE ALL NECESSARY CHANGES BASED ON EXISTING CONDITIONS AS REQUIRED FOR PROPER DEMOLITION OF EXISTING WORK & SHALL INCLUDE ALL MATERIALS & LABOR FOR SAME IN HIS BID PRICE. NO ALLOWANCE WILL BE MADE FOR FAILURE TO DO SO.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL VISIT THE PREMISES OF THE PROPOSED WORK & SHALL CAREFULLY EXAMINE THE ENGINEERING DRAWINGS, EXISTING CONDITIONS & LIMITATIONS THEREOF. VERIFY ACTUAL LOCATIONS WHERE THE NEW PIPING WILL BE ROUTED. COORDINATE WITH NEW & EXISTING WORK & PROVIDE CLEARANCE W/ BUILDING STRUCTURE, OTHER SERVICES, ETC., THE CONTRACTOR SHALL INCLUDE ALL COSTS WHATSOEVER WHICH ARE INCURRED AS A RESULT OF LIMITATIONS OF THE EXISTING & NEW CONDITIONS. LATER CLAIMS FOR EXTRA LABOR, EQUIPMENT MATERIALS, ETC. REQUIRED DUE TO DIFFICULTIES WHICH COULD HAVE BEEN FORESEEN WILL NOT BE CONSIDERED AS EXTRA WORK.
- INSTALL WORK SO AS TO BE READILY ACCESSIBLE FOR OPERATING, MAINTENANCE & REPAIR. MINOR DEVIATIONS FROM DRAWINGS MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES OF MAGNITUDE WHICH INVOLVE EXTRA COST SHALL NOT BE MADE WITHOUT APPROVAL.
- INVESTIGATE EACH SPACE THROUGH WHICH EQUIPMENT MUST BE MOVED. WHEN NECESSARY EQUIPMENT SHALL BE SHIPPED FROM MANUFACTURER IN CRATED SECTIONS OF SIZE SUITABLE FOR MOVING THROUGH AREAS AVAILABLE. ASCERTAIN FROM BUILDING OWNER AT WHAT TIMES OF DAY EQUIPMENT MAY BE MOVED THROUGH THE BUILDING.
- COORDINATE THE EXACT SIZE & LOCATION OF NEW OPENINGS WITH EXISTING STRUCTURE. PATCH / INSULATE AS REQUIRED. CONTRACTOR SHALL FIRESTOP ALL PENETRATIONS FROM NEW PIPING, CONDUIT, DUCTWORK, ETC. THROUGH EXISTING OR NEW FIRE/ SMOKE BARRIERS. REFER TO SPECIFICATION SECTION 15511 FOR FURTHER DETAILS.
- IT IS THE INTENT OF THIS CONTRACT FOR REMAINING SYSTEMS TO BE LEFT IN GOOD WORKING ORDER, READY FOR OPERATION. COORDINATE ANY REQUIRED SYSTEM SHUTDOWNS WITH OWNER 48 HOURS IN ADVANCE. EXISTING SYSTEM SHUTDOWNS WILL NOT BE PERMITTED IF THEY INTERFERE WITH THE DAILY OPERATIONS OF THE BUILDING. CONTRACTOR WILL BE REQUIRED TO TAKE PROPER PRECAUTIONS AGAINST DAMAGING OR DISRUPTING BUILDING SYSTEMS, WIRING, PIPING OR CONTROL TUBING. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED AT THE CONTRACTOR'S COST AS A PART OF THIS
- THE CONTRACTOR SHALL REPAIR / RESTORE TO ORIGINAL CONDITION ANY EXISTING EQUIPMENT OF MATERIALS DAMAGED IN THE PROCESS OF INSTALLATION, OR DEMOLITION TO THE SATISFACTION OF TH OWNER'S REPRESENTATIVE. CONTRACTOR SHALL MAKE REPAIRS USING THE SAME OR EQUIVALENT MATERIALS. WORK WILL BE PERFORMED AT THE CONTRACTOR'S COST.
- CONTRACTOR SHALL INCUR ANY COSTS OR BURDENS ASSOCIATED WITH LOST OR STOLEN EQUIPMENT /
- MATERIAL ACCUMULATED AS A RESULT OF HIS OPERATIONS ON A DAILY BASIS. ALL AREAS / EQUIPMENT AFFECTED UNDER THIS CONTRACT SHALL BE KEPT CLEAN OF DUST / DEBRIS. ALL AREAS SHALL RECEIVE A FINAL CLEANING PRIOR TO FINAL ACCEPTANCE BY THE OWNER.

DURING THE LIFE OF THE CONTRACT PERIOD, CONTRACTOR SHALL REMOVE ALL RUBBISH / EXCESS

- PROVIDE FOR LEGAL REMOVAL / DISPOSAL OF ALL RUBBISH / DEBRIS FROM THE BUILDING & SITE. PROTECT ALL WORK NOT SLATED FOR DEMOLITION.
- THIS CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES PRIOR TO SCHEDULING THE WORK. WORK SHALL BE PERFORMED IN PROPER SEQUENCE, AS AGREED TO BY ALL TRADES. ANY COSTS INCURRED BY THE OWNER DUE TO IMPROPER SEQUENCING OF WORK WILL BE PAID FOR BY THIS
- CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, CONNECTION CHARGES, ETC. ASSOCIATED WITH THE WORK UNDER THEIR CONTRACT.
- PAINT / TOUCH UP ALL SURFACES MARRED AS A RESULT OF THE PERFORMANCE OF THE CONTRACT
- . THE MECHANICAL CONTRACTOR SHALL REFER TO / REVIEW ALL OTHER TRADE DRAWINGS IN THE BID PACKAGE & SHALL BE RESPONSIBLE FOR / PERFORM ALL WORK INDICATED AS (M.C.) MECHANICAL WORK AS A PART OF THE BASE BID UNLESS SPECIFICALLY NOTED OTHERWISE.
- SUBSTITUTED EQUIPMENT OF GREATER OR LARGER POWER. DIMENSIONS, CAPACITIES & RATINGS MAY BE FURNISHED PROVIDED THAT SAID EQUIPMENT IS APPROVED IN WRITING PRIOR TO ORDER. ANY CONNECTING MECHANICAL SERVICES, ELECTRICAL SERVICES, BASES, STRUCTURAL APPURTENANCES, ETC. REQUIRED TO BE INCREASED DUE TO THE USE OF SAID EQUIPMENT WILL BE PAID FOR IN FULL BY THE MECHANICAL CONTRACTOR, INCLUDING ANY ADDITIONAL REQUIRED ENGINEERING FEES.
- . EACH PIECE OF EQUIPMENT SHALL BE PROVIDED WITH A PERMANENT TYPE LAMINATED, BLACK FINISH WHITE CORE, PHENOLIC NAMEPLATE. NAMEPLATES SHOULD INDICATE THE NAME & NUMBER OF THE UNIT UNIT VOLTAGE, & ANY INTERLOCK REFERENCE. STARTERS / DISCONNECT SWITCHES SHOULD ALSO BE EQUIPPED WITH AN IDENTICAL NAMEPLATE WITH THE SAME INFORMATION.
- "ATTIC STOCK" UPON COMPLETION OF THE PROJECT, MECHANICAL CONTRACTOR SHALL COMPLETELY REMOVE / DISPOSE OF FILTERS USED DURING CONSTRUCTION & START-UP PROCEDURES. INSTALL NEW FILTERS IN ALL EQUIPMENT, MERV-8 OR BETTER UPON TURN OVER OF THE PROJECT TO THE OWNER. IN ADDITION, PROVIDE (2) COMPLETE SETS OF FILTERS FOR EACH PEICE OF EQUIPMENT & TURN OVER TO
- . MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EACH SIZE MOTOR USED ON THE PROJECT. IN INSTANCES WHERE MORE THAN TEN OF THE SAME MOTOR ARE USED, MECHANICAL CONTRACTOR SHALL PROVIDE (1) SPARE MOTOR FOR EVERY TEN MOTORS OF A GIVEN SIZE USED ON THE
- MAINTENANCE MANUAL: UPON COMPLETION OF THE PROJECT, THE MECHANICAL CONTRACTOR SHALL PROVIDE A BINDER CONTAINING THE OPERATIONS & MAINTENANCE MANUALS FOR EACH NEW PEICE OF EQUIPMENT INSTALLED UNDER THIS PROJECT. THE FIRST SECTION OF THE MAINTENANCE MANUAL SHALL CONTAIN A LIST OF EACH PEICE OF EQUIPMENT, COMPLETE WITH INFORMATION SHOWING APPROPRIATE REPLACEMENT FILTER SIZES / TYPES, APPROPRIATE REPLACEMENT BELT SPECIFICATIONS, REPLACEMENT MOTOR SPECIFICATIONS, REPLACEMENT BEARING SPECIFICATIONS, VOLTAGES OF UNIT, ETC. THIS SHAL SERVE AS A WRITTEN DATABASE DESCRIBING ALL MAINTENANCE INFORMATION FOR EACH NEW PEICE OF EQUIPMENT USED.

BOILER ROOM and PIPING NOTES

- THE DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL PIPING & EQUIPMENT, & INDICATE THI REQUIRED SIZE / POINTS OF TERMINATION OF THE PIPING & SUGGEST PROPER ROUTING OF SAME. IT IS NOT THE INTENTION OF THE DRAWINGS TO SHOW ALL NECESSARY OFFSETS, RISES, DROPS, OBSTRUCTIONS OR STRUCTURAL CONDITIONS. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO INSTALL HIS WORK IN SUCH A MANNER THAT IT WILL CONFORM TO THE STRUCTURE, AVOID OBSTRUCTIONS, PRESERVE HEADROOM & KEEP OPENINGS / PASSAGEWAYS CLEAR WITHOUT FURTHER CONSTRUCTION OR COST.
- ALL FLOOR MOUNTED BOILER ROOM EQUIPMENT SHALL BE INSTALLED ON A LEVEL, REINFORCED CONCRETE HOUSEKEEPING PAD, 4" THICK MIN. UNLESS OTHERWISE NOTED. ALL HOUSEKEEPING PADS SHALL BE INSTALLED BY THE MECHANICAL CONTRACTOR. PADS SHALL BE REINFORCED W/ WELDED WIRE MESH & SHALL BE POURED USING 3,000 PSI CONCRETE.
- MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL ALL REQUIRED STRUCTURAL SUPPORTS FOR ALL PIPING SYSTEMS & EQUIPMENT AS REQUIRED. PIPING SYSTEMS SHALL BE EQUIPPED WITH EXPANSION COMPENSATORS AT THE INTERVALS REQUIRED. PROVIDE PIPING GUIDES / ANCHORS AS REQUIRED.
- MECHANICAL CONTRACTOR SHALL PROPERLY INSULATE ALL NEW PIPING SYSTEMS & EQUIPMENT. REFER TO SPECIFICATION SECTION 15250 FOR FURTHER DETAILS REGARDING INSULATION REQUIREMENTS UPON COMPLETION OF INSULATION WORK, MECHANICAL CONTRACTOR SHALL PROPERLY LABEL EACH PIPING RUN SHOWING THE TYPE OF FLUID CARRIED & DIRECTION OF FLOW. PIPE IDENTIFICATION MARKERS SHALL BE INSTALLED EVERY 20 FEET IN THE PIPING RUNS.
- ALL VALVES WITHIN PIPING SYSTEMS SHALL BE TAGGED USING A 1-1/2" DIA. BRASS TAG. PROVIDE A LEGEND LISTING VALVE #, TYPE OF VALVE, SERVICE TYPE, & LOCATION OF VALVE. KEY VALVE #'S TO AS-BUILT DRAWINGS UPON COMPLETION OF PROJECT.
- MECHANICAL CONTRACTOR SHALL SUBMIT (3) SETS OF OPERATING MANUALS FOR EACH PIECE / TYPE OF MECHANICAL EQUIPMENT.
- MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL ALL WIRING & DEVICES AS REQUIRED TO CONTROL THE BOILER ROOM EQUIPMENT AS DESCRIBED IN THE SEQUENCE OF OPERATIONS LISTED IN THE PROJECT MANUAL. REFER TO SPECIFICATION SECTION 15903 FOR FURTHER DETAILS.

FIRESTOPPING NOTES

- ALL PENETRATIONS RELATED TO MECHANICAL WORK THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED AS REQUIRED TO MAINTAIN THE RATING OF THE WALL BY MECHANICAL CONTRACTOR. IT IS ASSUMED THAT ALL WALLS IN THE CONSTRUCTION CARRY A MINIMUM FIRE RATING OF 1 HR. IT SHOULD BE ASSUMED THAT ALL MACHINE ROOM WALLS / BOILER ROOM WALLS / ELECTRIC ROOM WALLS CARRY A RATING OF 2 HR. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR A COMPLETE REVIEW OF THE ARCHITECTURAL DRAWINGS IN ORDER TO DETERMINE FIRE RATINGS OF ALL WALLS / PARTITIONS RELATED TO WORK UNDER THIS CONTRACT.
- MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS. DUCTS PENETRATING SAID RATED BARRIERS SHALL BE EQUIPPED WITH A UL LISTED FUSIBLE LINK TYPE FIRE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR, COMPLETE W/ DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER, POSITIONED FOR EASY REPLACEMENT OF THE LINK.
- MECHANICAL CONTRACTOR SHALL REVIEW THE COMPLETE ARCHITECTURAL SET OF DRAWINGS IN ORDER TO DETERMINE WHERE DUCT PENETRATIONS THROUGH RATED BARRIERS OCCUR BETWEEN SEPARATE SMOKE ZONES. DUCTS PENETRATING SAID FIRE / SMOKE BARRIERS SHALL BE EQUIPPED WITH A UL LISTED COMBINATION FIRE / SMOKE DAMPER, RATED FOR SERVICE FOR WHICH IT IS BEING USED. FIRE / SMOKE DAMPERS SHALL BE PROVIDED & INSTALLED BY THE MECHANICAL CONTRACTOR, COMPLETE W/ DUCT ACCESS DOORS DIRECTLY ADJACENT TO THE DAMPER. DAMPER ACTUATOR & RELATED WIRING SHALL BE PROVIDED & INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE DAMPER INSTALLATIONS W/ E.C. TO VERIFY PROPER CLEARANCES TO ASSURE PROPER DAMPER OPERATION.
- MECHANICAL CONTRACTOR SHALL PROVIDE A FULL SET OF AS-BUILT DRAWINGS, SHOWING EACH DAMPER LOCATION, TYPE OF DAMPER, ACCESS DOOR LOCATIONS, ETC. CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 15511 FOR FURTHER DETAILS REGARDING FIRESTOPPING MATERIALS & METHODS.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS TO BE USED. FIRESTOP MATERIALS OTHER THAN THE PRODUCTS SPECIFIED SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRESTOPPING MATERIALS.

GENERAL INSTRUMENTATION NOTES

- AT A MINIMUM, PROVIDE THERMOMETERS / WELLS AT THE FOLLOWING LOCATIONS:
- AT INLETS & OUTLET OF EACH THREE WAY VALVE (UNIT VENTILATORS / CABINET UNIT HEATER INSTALLATIONS EXCEPTED).
- AT INLET & OUTLET OF EACH HYDRONIC BOILER, CHILLER OR COOLING TOWER. AT INLET & OUTLET OF EACH HYDRONIC COIL IN AIR HANDLING UNITS & BUILT-UP CENTRAL SYSTEMS.
- AT A MINIMUM, PROVIDE LIQUID FILLED PRESSURE GAUGES / WELLS AT THE FOLLOWING LOCATIONS:
- AT SUCTION & DISCHARGE OF EACH PUMP.
- FOR EACH MAKEUP WATER LINE. BEFORE & AFTER ALL PRESSURE REDUCING VALVES.
- AT ACCESSIBLE HIGH POINT OF ALL HYDRONIC PIPING SYSTEMS. AT ALL EXPANSION / COMPRESSION TANKS.

EQUIPMENT VENTING NOTES

- MECHANICAL CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER VENTING OF ALL NEWLY INSTALLED HYDRONIC PIPING SYSTEMS. AUTOMATIC AIR VENTS SHALL BE INSTALLED AT EVERY HIGH POINT IN THE PIPING SYSTEM WHERE AIR CAN COLLECT. PROVIDE COCK IN RISER PRIOR TO AUTOMATIC AIR VENT. NEW AIR VENTS SHALL BE "TACO" #HY-VENT OR EQUIVALENT.
- 2. MECHANICAL CONTRACTOR SHALL PROVIDE & INSTALL NEW AUTOMATIC AIR VENT FOR EACH AIR HANDLING UNIT COIL OR DUCT MOUNTED COIL. INSTALL SHUT-OFF COCK PRIOR TO VENT TIE-IN.
- MECHANICAL CONTRACTOR SHALL PROVIDE NEW MANUAL AIR VENTS FOR ALL UNIT VENTILATOR COILS, CONVECTORS, FAN COIL UNITS, FIN TUBE RADIATORS, ETC. MANUAL VENTS SHALL BE "TACO" #417 COIN VENT OR EQUIVALENT. PROVIDE SHUT-OFF COCK PRIOR TO VENT. AIM COIN VENT DISCHARGE IN AN APPROPRIATE MANNER AS TO FACILITATE THE CAPTURE OF BLEED WATER WHILE PERFORMING SYSTEM BLEEDING OPERATIONS.

ELECTRICAL WORK UNDER MECHANICAL CONTRACT

- MECHANICAL CONTRACTOR SHALL PROVIDE ALL STARTERS & DISCONNECT SWITCHES REQUIRED FOR ALL NEW MECHANICAL EQUIPMENT. STARTER / DISCONNECT SWITCH INSTALLATION TO BE PERFORMED UNDER THE ELECTRICAL CONTRACT. COORDINATE WORK W/ ELECTRICAL CONTRACTOR PRIOR TO START
- POWER WIRING REQUIRED FOR CONTROLS SHALL BE PERFORMED UNDER THE MECHANICAL CONTRACT UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ELECTRICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL OBTAIN THE SERVICES OF A LICENSED ELECTRICIAN (PER NEC REQUIREMENTS) TO PERFORM ALL ELECTRICAL WORK.

DUCTWORK NOTES

- PROVIDE ALL NEW DUCTWORK AS SHOWN AND SPECIFIED UNDER SPECIFICATION SECTION 015891, AND IN CONFORMANCE WITH 'SMACNA' SPECIFICATIONS.
- IF A DUCT ELBOW IS SHOWN TO BE RADIUSED, THEN RADIUSED ELBOWS SHALL BE INSTALLED. SQUARE ELBOWS MAY NOT BE SUBSTITUTED WHERE RADIUSED ELBOWS ARE SHOWN. WHERE SQUARE ELBOWS ARE SHOWN, TURNING VANES SHALL BE INSTALLED UPON APPROVAL BY THE ENGINEER.
- PROVIDE DUCT LINING IN ALL DUCTWORK THAT IS CONVEYING BELOW AMBIENT TEMPERATURE AIR & IS NOT INSULATED. PROVIDE LINING IN SUPPLY & RETURN AIR DUCTWORK FROM AIR HANDLING EQUIPMENT TO 20 FEET AWAY FROM THE UNIT(S). IN ADDITION, INCLUDE LINING IN ANY OTHER DUCT SPECIFICALLY SHOWN OR SPECIFIED TO BE EQUIPPED WITH LINING. REFER TO SPECIFICATION SECTION 15891 & 15290 FOR FURTHER INFORMATION.
- WHERE FLEXIBLE DUCTWORK IS USED, LENGTHS MAY NOT EXCEED 4 FEET TOTAL IN ANY ONE RUN OF FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE RATED IN ACCORDANCE WITH UL 181, CLASS 1. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.
- MECHANICAL CONTRACTOR SHALL PROVIDE A BUTTERFLY TYPE VOLUME DAMPER WITH LOCKING QUADRANT HANDLE PRIOR TO EACH AIR OUTLET SHOWN. INSTALL DAMPER AT LEAST 5 FEET AWAY FROM AIR OUTLET WHEREVER POSSIBLE.
- MECHANICAL CONTRACTOR SHALL PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCT SYSTEMS CONNECT TO EQUIPMENT. REFER TO SPECIFICATION SECTION 15891 FOR FURTHER INFORMATION.

TESTING and BALANCING NOTES

- MECHANICAL CONTRACTOR WILL BE REQUIRED TO PERFORM ALL EQUIPMENT & SYSTEM TESTING / BALANCING REQUIRED UNDER THIS CONTRACT. PROVIDE A FULL REPORT DETAILING ALL DESIGN & ACTUAL CONDITIONS FOR ALL AIR & HYDRONIC SYSTEMS SHOWN ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 15990 & 15997 FOR FURTHER DETAILS.
- UPON NOTICE OF COMPLETION OF WORK BY THE CONTRACTOR, OWNER WILL OBTAIN THE SERVICES OF AN INDEPENDENT TESTING & BALANCING CONTRACTOR TO VERIFY THE RESULTS OF THE TESTING & BALANCING REPORT SUBMISSION. INDEPENDENT TESTING AGENCY SHALL SELECT A RANDOM NUMBER OF MEASUREMENTS TO BE CHECKED. MEASUREMENTS WILL BE CHECKED IN THE SAME MANNER AS ORIGINALLY MEASURED. NUMBER OF VERIFICATION MEASUREMENTS SHALL BE APPROXIMATELY 25% OF THE TOTAL MEASUREMENTS FOR THE PROJECT.
- IF MORE THAN 10% OF THE VERIFICATION TESTING SHOWS DEVIATIONS OF 10% OR MORE / SOUND LEVEL OF 2dB DIFFERENT THAN THAT ORIGINALLY MEASURED, THE ORIGINAL REPORT WILL BE REJECTED. AL SYSTEMS WILL THEN BE REQUIRED TO BE COMPLETELY RE-TESTED, WITH A SECOND REPORT SUBMITTED IN THE EVENT THAT THE ORIGINAL REPORT IS REJECTED, ALL SYSTEMS SHALL BE READJUSTED & TESTED NEW CERTIFIED REPORTS SUBMITTED, AND NEW VERIFICATION TESTS MADE, AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL COSTS INVOLVED WITH THE VERIFICATION TESTS.

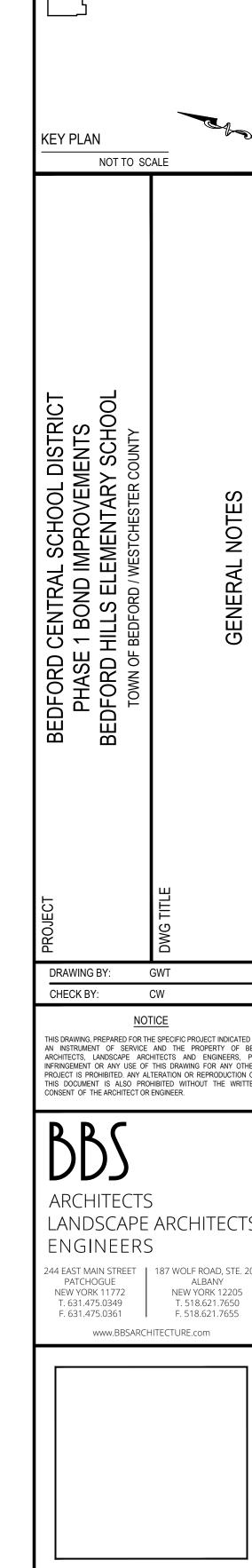
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A.F.F																			ABOVE FINISHED FLOOR
B.D																			BACKDRAFT.DAMPER
CWS																			COLD WATER SUPPLY.
CFM																			CUBIC FEET OF AIR PER MINUTE
D																			DEEP / DEPTH
DIA./~																			DIAMETER
F&T	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			FLOAT & THERMOSTATIC
FPM	•	•	•	•	•	٠	•	•	•	•	•	•	•	•	•	•			FEET PER MINUTE
FSD	•	٠	٠	•	•	٠	٠	•	•	٠	•	٠	•	•	٠	٠			FIRE DAMPER - DUCT MOUNTED.
FLEX	•	٠	٠	•	•	٠	٠	•	•	٠	•	٠	•	•	٠				
FO.	•	•	•	•	٠	٠	•	•	•	•	٠	٠	•	•	٠	•			FLEXIBLE
GAL	•	٠	٠	•	•	٠	٠	٠	•	٠	•	٠	٠	٠	٠	٠	٠	•	FLAT OVAL DUCTWORK
	•	٠	٠	•	•	٠	٠	٠	•	٠	•	٠	٠	٠	٠	٠	٠	•	
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H.C		٠		•	٠	•	•		•	•	•								HANDICAPPED
HWS	•	•			٠	•			٠										NG SYSTEM HOT WATER SUPPLY.
HWR	•	٠	٠			٠	٠			٠	•	٠		٠	•				NG SYSTEM HOT WATER RETURN
HP	•	٠	•			•	٠	٠	٠	٠	•	٠	٠			•			HORSEPOWER
J.D		•															•		INSIDE DIAMETER
KW																			KILQWATT.
L																			LQNG
LAT																			LEAVING AIR TEMPERATURE
LWT																			LEAVING WATER TEMPERATURE
MAX																			MAXIMUM
MIN																			MINIMUM
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MTD																			MOUNTED.
.G																			
N.I.C																			NOT IN CONTRACT.
No./#																			
NOM																			NOMINAL
N.T.S																			NOT TO SCALE
O.A																			OUTSIDE AIR
.O.C																			ON CENTER
.O.D							٠					٠							OUTSIDE DIAMETER
.O.S. &.Y .																			OUTSIDE SCREW & YOKE
.O.C																			ON CENTER
PE																			PNEUMATIC / ELECTRIC
PREFAB .																			
PRV																			PRESSURE REDUCING VALVE
PSI	•	·		i	·	·	·				·	·			·	·			POUNDS PER SQUARE INCH
R.A.	•	•	•	•	•	•	•	·	·	•	•	•	·	•	•		•		RETURN AIR
REQ'D	•	٠	•	•	•	٠	٠				•	•	•	•	•		٠		
DDM	•	•	•	•	•	•	•												DEVOLUTIONS DED MINISTE
S.A	•	•	•	•	•	٠	•	•	•	•	•	•				٠	•	•	SUPPLY AIR
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S.P.	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
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.W											٠								
.WB							•					•							WET BULB TEMPERATURE
.WTD		•																	. WATER TEMPERATURE DROP.
.WTR																			WATER TEMPERATURE RISE
.WPD																			WATER PRESSURE DROP.

SYMBOL	DESCRIPTION
24x12 / 20"~	RECTANGULAR GALVANIZED DUCTWORK - DIMENSIONS 'W' x 'H'
<i>\\</i>	NEW SUPPLY DUCTWORK TO RISE UP
	NEW SUPPLY DUCTWORK TO DROP DOWN
£ \	NEW RETURN DUCTWORK TO RISE UP
£ 1	NEW RETURN DUCTWORK TO DROP DOWN
E 3	TRANSITION IN DUCTWORK
	FIRE DAMPER INSTALLED IN DUCTWORK
	VOLUME DAMPER IN DUCT (w/ LOCKING QUADRANT HANDLE)
5	ROUND DUCTWORK TO RISE UP
5	ROUND DUCTWORK TO DROP DOWN
42x18 FO	FLAT OVAL DUCT WORK
2	RECTANGULAR TO ROUND DUCT TRANSITION
Z-2 1200	ELBOW IN DUCTWORK w/ TURNING VANES
2	ELBOW IN DUCTWORK (RADIUS + 1.5 x D)
	45 DEG. TAKEOFF FITTING
	90 DEG. TAKEOFF w/ BELLMOUTH FITTING
	FLEXIBLE DUCTWORK TO DIFFUSER (4 FT. MAX. RUN)
	4-WAY PATTERN CEILING DIFFUSER
	3-WAY PATTERN CEILING DIFFUSER
	2-WAY PATTERN CEILING DIFFUSER (90 DEG. / OPPOSING PATTER
	CEILING RETURN AIR REGISTER
	LINEAR SLOT DIFFUSER
	ROOF MOUNTED EXHAUST FAN

PIPING SYMBOL	DESCRIPTION
	- PIPING TO RISE UP
	- PIPING TO DROP DOWN
P.A.	- PIPING ANCHOR
	- PIPING GUIDE
	- COLD WATER SUPPLY PIPING
————HWS ———	- HEATING SYSTEM SUPPLY PIPING
— — HWR — —	- HEATING SYSTEM RETURN PIPING
	- CHILLED WATER SUPPLY PIPING
	- CHILLED WATER RETURN PIPING
	- CONDENSER WATER SUPPLY PIPING
· · ·	- CONDENSER WATER RETURN PIPING
CD	- CONDENSATE DRAINAGE PIPING
F.O.S.	- FUEL OIL SUPPLY PIPING
F.O.R.	- FUEL OIL RETURN PIPING
G	- LOW PRESSURE NATURAL GAS PIPING
———EG ———	- ELEVATED PRESSURE NATURAL GAS PIPING
\	GAS COCK
	DIRT LEG IN PIPING
LP	- LIQUEFIED PETROLEUM GAS PIPING
V	- VENT PIPING
	- LINEAR EXPANSION COMPENSATOR
	EXPANSION LOOP IN PIPING
	- UNION IN PIPING
	PIPING STRAINER (w/ BLOWDOWN VALVE)
	- REDUCER / INCREASER FITTINGS IN PIPING
	ECCENTRIC REDUCER IN PIPING
_	THERMOMETER
<u></u>	PRESSURE GAUGE
	- FULL PORT BALL VALVE
	- GATE VALVE
	- SWING CHECK VALVE
	BALANCING VALVE
	3-WAY VALVE (w/ OPERATOR)
	_ CIRCUIT CETTER
3	- TRIPLE DUTY VALVE
<u> </u>	- WAFER VALVE
<u>-</u>	PLUG / CAP IN PIPING
\sim	PNEUMATIC CONTROL VALVE OPERATOR
	ELECTRIC CONTROL VALVE OPERATOR
_	AUTOMATIC AIR VENT
	· EXISTING PIPING

PIPING SYMBOL L	ECEND
SYMBOL L	DESCRIPTION
	PIPING TO RISE UP
 	PIPING TO DROP DOWN
P.A.	PIPING ANCHOR
	PIPING GUIDE
	COLD WATER SUPPLY PIPING
HWS —	HEATING SYSTEM SUPPLY PIPING
— — HWR — —	HEATING SYSTEM RETURN PIPING
	CHILLED WATER SUPPLY PIPING
	CHILLED WATER RETURN PIPING
	CONDENSER WATER SUPPLY PIPING
	CONDENSER WATER RETURN PIPING
CD	CONDENSATE DRAINAGE PIPING
F.O.S.	FUEL OIL SUPPLY PIPING
F.O.R	FUEL OIL RETURN PIPING
G	LOW PRESSURE NATURAL GAS PIPING
———EG ———	ELEVATED PRESSURE NATURAL GAS PIPING
<u></u>	GAS COCK
	DIRT LEG IN PIPING
LP	LIQUEFIED PETROLEUM GAS PIPING
	VENT PIPING
	LINEAR EXPANSION COMPENSATOR
	EXPANSION LOOP IN PIPING
———	UNION IN PIPING
	PIPING STRAINER (w/ BLOWDOWN VALVE)
	REDUCER / INCREASER FITTINGS IN PIPING
	ECCENTRIC REDUCER IN PIPING
	THERMOMETER
<u> </u>	PRESSURE GAUGE
	FULL PORT BALL VALVE
	GATE VALVE
	SWING CHECK VALVE
	BALANCING VALVE
	3-WAY VALVE (w/ OPERATOR)
	CIRCUIT CETTER
	TRIPLE DUTY VALVE
	WAFER VALVE
	PLUG / CAP IN PIPING
4	PNEUMATIC CONTROL VALVE OPERATOR
	ELECTRIC CONTROL VALVE OPERATOR
<u></u> † †	AUTOMATIC AIR VENT
	EXISTING PIPING

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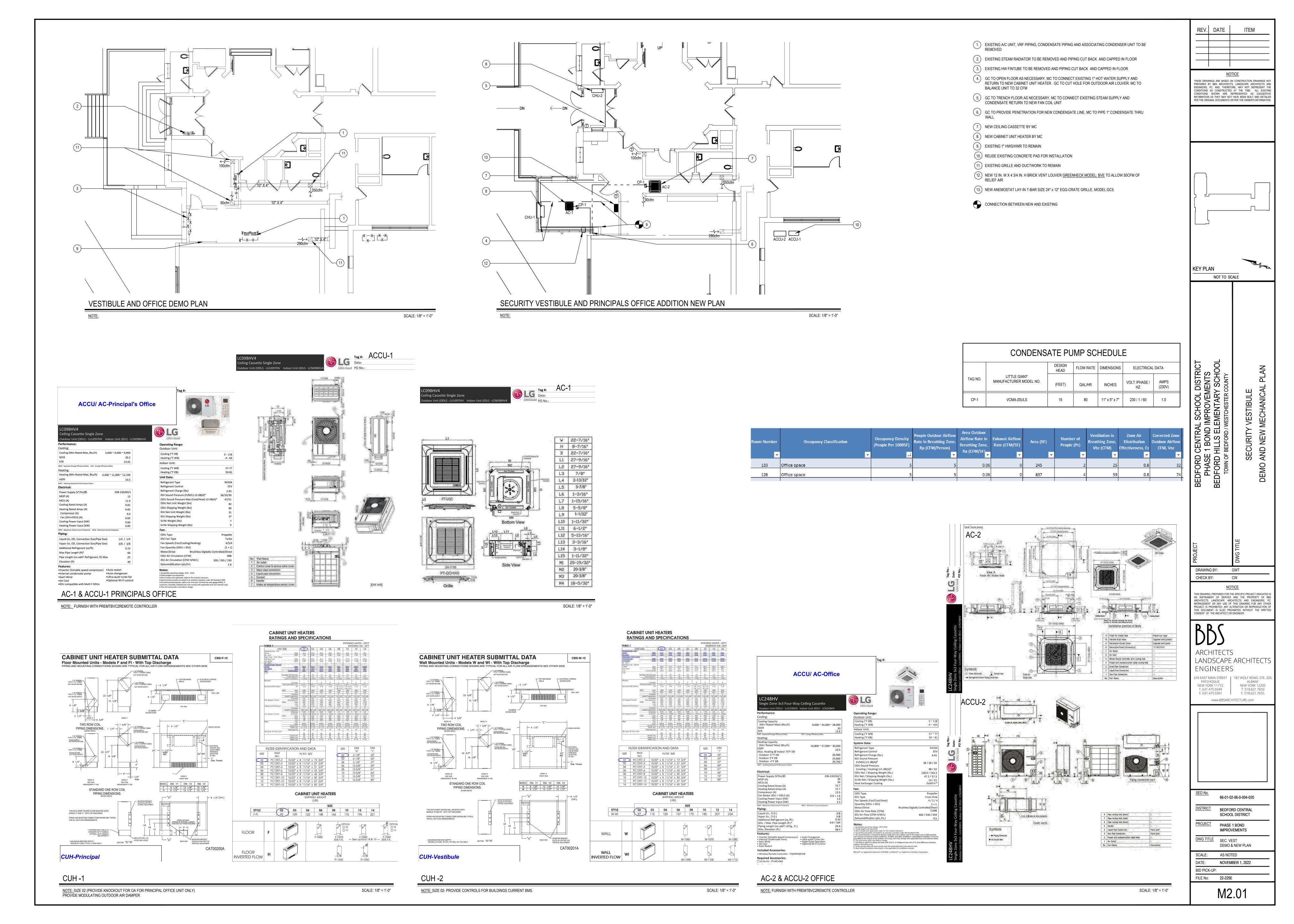
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SED No.	66-01-02-06-0-004-020
DISTRICT	BEDFORD CENTRAL SCHOOL DISTRICT
PROJECT	PHASE 1 BOND IMPROVEMENTS
DWG TITLE	GENERAL

SCALE: AS NOTED NOVEMBER 1, 2022 DATE: BID PICK-UP: FILE No: 22-225E

NOTES

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- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEC, APPLICABLE LOCAL CODES, STATE CODES, SCHOOL WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEER'S SPECIFICATIONS.
- THE VOLTAGE CHARACTERISTIC OF EXISTING BUILDING IS 208Y/120V, 3-PASE, 4-WIRE. THE VOLTAGE CHARACTERISTIC OF THE PROPOSED ADDITION SHALL BE 480/277V, 3-PHASE 4-WIRE WITH 208/120V DERIVED FROM STEP DOWN TRANSFORMERS., ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS.
- THE DRAWINGS SHOW SCHEMATICALLY, THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION, ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL
- VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED.

 4. DIVISION 16 CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS/SPECIFICATIONS AND ACTUAL FIELD
- CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEERS ATTENTION BEFORE BID SUBMITTAL.

 5. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL LABOR SERVICE MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK OF THIS DIVISION. AS REQUIRED BY THE NATIONAL ELECTRIC CODE. AND ALL STATE AND LOCAL AUTHORITIES HAVING
- WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL AUTHORITIES HAVING JURISDICTION.
- DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL
 MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED.
 DIVISION 16 CONTRACTOR SHALL PAY ANY FEES APPLICABLE TO ELECTRICAL WORK, SUCH AS, BUT NOT LIMITED TO, THE POWER
- COMPANY, TELEPHONE COMPANY, CATV, CERTIFIED ELECTRICAL INSPECTORS, ALARM AND FIRE PROTECTION COMPANIES.

 THE DIVISION 16 CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS
- BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK.

 9. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE SCHOOL DISTRICT BUILDINGS AND GROUNDS DEPARTMENT.
- 10. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN INSPECTION CERTIFICATE AND PAY ASSOCIATED FEE. SUBMIT A PHOTOCOPY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION.
- 11. DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN SECTION 1700 OF THE PROJECT MANUAL.
- 12. A COMPLETE SYSTEM OF WIRING, WITH ALL FEEDERS, MAINS, AND BRANCHES AS SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED FROM THE MAIN DISTRIBUTION BOARD TO THE PANELS OUTLETS, MOTORS, AND APPURTENANCES.
- PROVIDE IDENTIFICATION FOR ALL PANEL AND MOTOR FEEDER CABLES IN PULL BOXES AND AT TERMINATIONS. ANY CONDUCTOR VOLTAGES HIGHER THAN 240 VOLTS SHALL BE MARKED ON DEVICES AND JUNCTION BOXES.
 FURNISH AND INSTALL ALL WIRING OF ANY VOLTAGE OR PURPOSE AS SHOWN ON THE DRAWINGS.
- 15. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARING COMMON NEUTRALS AMONG BUNDLED CIRCUITS IS SPECIFICALLY DISALLOWED UNLESS OTHERWISE NOTED.
- 16. PULL/JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED OR AS OTHERWISE REQUIRED TO FACILITATE THE PROPER INSTALLATION OF WIRES AND CABLES. CONDUITS MAY BE INCREASED IN SIZE FOR CONSTRUCTION CONVENIENCE.
- 17. FURNISH AND INSTALL ALL DISCONNECT DEVICES AND SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED TO CONFORM WITH REQUIREMENTS.
 18. FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE
- INSTALLATION.

 19. DIVISION 16 CONTRACTOR SHALL PROVIDE TO SCHOOL 5 PERCENT SPARE LAMPS (MINIMUM QUANTITY 1) OF EACH TYPE SPECIFIED
- WITH NEW FIXTURES.

 20. PROVIDE ALL WIRING, PANEL BOARDS, SWITCHES, FUSES, EQUIPMENT, AND ALL INCIDENTAL MATERIALS REQUIRED TO SUPPLY TEMPORARY AND PERMANENT ELECTRICAL NEEDS FOR THE WORK INVOLVED, ALL IN ACCORDANCE WITH OSHA, LOCAL, STATE AND
- 21. ALL WIRING TO BE 1#12+1#12(N)+1#12(G)-3/4"C., OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. RUN BRANCH CIRCUITS IN DROPPED CEILINGS, VOIDS, & CHASES. CONDUITS MAY BE SURFACE MOUNTED IN MECHANICAL SPACES UNLESS OTHERWISE NOTED. CONDUITS IN PUBLIC AREAS SHALL BE CONCEALED IN HUNG CEILINGS, EMBEDDED IN SLAB OR MASONRY WALLS, EXCEPT WHERE SURFACE MOUNTED RACEWAY IS SPECIFIED. ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE.
- ALL CONNECTIONS AND/OR SPLICES SHALL BE MADE ONLY IN ACCESSIBLE JUNCTION BOXES.
 ALL COUPLINGS AND CONNECTORS FOR USE WITH EMT SHALL BE COMPRESSION TYPE. SET SCREW TYPE OR INDENT TYPE FITTINGS
- 24. ALL CONNECTIONS TO CONDUIT RUN UNDERGROUND SHALL BE MADE WATERTIGHT. ALL METALLIC CONDUIT INSTALLED IN EARTH FILL, AS WELL AS UNDERGROUND, SHALL BE PAINTED WITH (2) COATS OF ASPHALTUM PAINT OR EQUAL.

 25. WIRING INSTALLED IN CEILINGS SHALL BE HUNG INDEPENDENT OF CEILING SYSTEM AND SECURELY TIED TO BUILDING STEEL
- WIRING INSTALLED IN CEILINGS SHALL BE HUNG INDEPENDENT OF CEILING SYSTEM AND SECURELY TIED TO BUILDING STEEL.
 ALL LOW VOLTAGE (FIRE ALARM, PA INTERCOM, PHONE, DATA, ETC.) WIRING INSTALLED IN OPEN AREAS SHALL BE IN METALLIC RACEWAY IN MECHANICAL AREAS, GYMNASIUMS, ART ROOMS, STOREROOMS, ETC., AND IN SURFACE MOUNTED RACEWAY IN PUBLIC AREAS. LOW VOLTAGE WIRE INSTALLED IN DROPPED CEILINGS SHALL BE BUNDLED TOGETHER AND SUPPORTED BY BUILDING STEEL. LOW VOLTAGE WIRE SHALL NOT BE SUPPORTED WITH BRANCH CIRCUITS OR FEEDER CIRCUITS AND SHALL NOT BE SUPPORTED BY CONDUIT, PIPES, ETC.. LOW VOLTAGE WIRING NOT INSTALLED IN CONDUITS, SHALL BE PLENUM RATED.
- 27. CONDUITS SHALL BE SECURED IN PLACE AND PROTECTED WHERE NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION.
 28. FURNISH AND INSTALL ALL HARDWARE TO PROPERLY SUPPORT ALL CONDUITS NOT INSTALLED IN CONCRETE SLABS OR
- 29. ALL CONDUITS OR MC CABLE SHALL BE EQUIPPED WITH AN INSULATING/CHAFE GUARD GROMMET AT WIRE EXIT/ENTRANCE. MC CABLE SHALL USE MC STYLE BUSHINGS. BX OR OTHER BUSHINGS ARE SPECIFICALLY DISALLOWED.

 30. WHERE AN EXISTING CONDUIT OR CABLE IS REQUIRED TO BE REMOVED BUT SERVES AND EXISTING PIECE OF EQUIPMENT WHICH IS
- TO REMAIN OPERABLE, THE DIVISION 16 CONTRACTOR SHALL REROUTE SAID CONDUIT OR CABLE OR PROVIDE A NEW SOURCE OF POWER (APPROVED BY ENGINEERING) TO THIS EQUIPMENT AS A PART OF THIS CONTRACT.

 31. ALL PANELS, SWITCHES, DISCONNECT STARTERS, OR OTHER ELECTRIC SYSTEM CONTROLS SHALL BE STENCILED WITH THEIR APPROPRIATE DESIGNATION/FUNCTION. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED BY A PANEL SCHEDULE OR STENCIL ADJACENT
- TO THE CIRCUIT BREAKER.

 32. ALL CIRCUIT BREAKERS POSITIONS IN ALL PANELS ARE SHOWN FOR ESTIMATE PURPOSES ONLY. EC IS RESPONSIBLE FOR LOAD BALANCING.
- BALANCING.

 33. ALL DEVICES SHALL BE FASTENED IN PLACE SECURELY. GRID MOUNTING LIGHTING FIXTURES SHALL BE SECURED TO GRID WITH
 CLIPS LISTED FOR THE PURPOSE OR SUSPENDED FROM STRUCTURE PER NEC
- CLIPS LISTED FOR THE PURPOSE OR SUSPENDED FROM STRUCTURE PER NEC.

 34. WORK WHICH MUST BE DONE IN OCCUPIED AREAS SHALL BE DONE AT SUCH TIMES AS INDICATED IN THE PHASING OF
- CONSTRUCTION AND AS APPROVED BY THE SCHOOL.

 35. WHERE THE DIVISION 16 CONTRACTOR IS INSTRUCTED TO PROVIDE, INSTALL AND WIRE CIRCUIT BREAKER(S) TO AN EXISTING PANEL AND THAT PANEL DOES NOT HAVE THE ROOM TO INSTALL REQUIRED CIRCUIT BREAKERS, THE DIVISION 16 CONTRACTOR SHALL REMOVE (3) ADJACENT 1P CIRCUIT BREAKERS AND PROVIDE A 3P. 60A BREAKER IN THEIR PLACE FOR SUB FEED TO A SURFACE

MOUNTED 100A, 3~,4W,24 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL, EACH WITH REQUIRED CIRCUIT BREAKERS. PROVIDE (3) 1P, AMPERAGE AS BEFORE CIRCUIT BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND

RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3#6+1#6(N)+1#10(G)-1"C.

36. SELECTED RECEPTACLES AS SHOWN ON DRAWINGS MAY BE GFI PROTECTED BY CONNECTING TO GFCI RECEPTACLE FIRST IN CIRCUIT. ALL RECEPTACLES THAT ARE PROTECTED FROM AN UPSTREAM GFCI UNIT SHALL BE VISABLY LABELED AS SUCH. GFCI

RECEPTACLE SHALL BE SPEC GRADE AND RATED 20A. WITH OPERATING NOTIFICATION INDICATING LIGHT.

- 37. ALL DEVICES ADDRESSED BY ADA REGULATIONS SHALL BE INSTALLED AT ADA COMPLIANT HEIGHT AND LOCATIONS.
 38. ALL NEW LIGHTING OR EXISTING LIGHTING HAVING SWITCHING REARRANGEMENT SHALL BE EQUIPPED WITH CODE COMPLIANT ENERGY CONSERVATION CONTROLS. SUCH CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO
- INSTALLATION.

 39. REMOVAL OF ELECTRICAL ITEMS INCLUDES THEIR DISPOSAL. THE EXCEPTION WILL BE TO TURN OVER TO THE OWNER ITEMS, IF ANY,
 THEY SPECIFY TO BE RETAINED IN THEIR INVENTORY. PCB OR ASBESTOS BEARING MATERIAL SHALL BE DISPOSED OF IN
- ACCORDANCE WITH LAWS AND REGULATIONS.

 40. EC SHALL PROVIDE & WIRE WEATHERPROOF GFCI RECEPTACLES ON ALL APPLICABLE ROOFTOP UNITS AS PART OF HIS BID. SEE
- MECHANICAL EQUIPMENT SCHEDULES FOR UNITS WITH SERVICE RECEPTACLES FACTORY INSTALLED.

 41. UNLESS OTHERWISE NOTED, STARTERS AND DISCONNECTS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL POWERED MECHANICAL EQUIPMENT. THE DIVISION 16 CONTRACTOR IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING FROM SOURCE TO UNIT VIA STARTERS AND DISCONNECTS. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE DIVISION 16 CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS, EQUIPMENT SCHEDULES & NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, AND THE REMOVAL OF ANY STARTERS/DISCONNECTS NO LONGER REQUIRED.

DEMOLITION NOTES (NOT ALL APPLY):

- 1. THE ITEMS SPECIFICALLY SHOWN ON DEMOLITION DRAWING/S ARE TO BE ADDRESSED BY THE ELECTRICAL CONTRACTOR. THE ITEMS ARE TO BE TREATED AS NOTED AND RANGE FROM DIRECT REMOVAL AND DISPOSAL, OR REMOVAL, STORAGE, AND
- REINSTALLATION/RELOCATION, OR TEMPORARY REMOVE/STORAGE, AND REINSTALLATION IN SAME LOCATION.

 2. MANY OTHER ELECTRIC ITEMS EXIST THAT ARE NOT SHOWN INCLUDE, BUT ARE NOT LIMITED TO, SWITCHES, RECEPTACLE, FLOOR OUTLETS, LOW VOLTAGE JACKS, LOW VOLTAGE DEVICES AND WIRING, TELEPHONE PUNCH DOWN BLOCKS, AND OUT OF SERVICE ITEMS. ALL SUCH ITEMS SHALL BE PERMANENTLY DE-ENERGIZED, DISCONNECTED, AND OTHERWISE MADE SAFE FOR DEMOLITION BY NON-ELECTRIC DEMOLITION WORKERS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL ELECTRIC DEVICES, OF ANY VOLTAGE OR FUNCTION, THAT ARE TO BE DEMOLISHED ARE SAFE AND ADVISE THE DEMOLITION CONTRACTOR WHEN THIS IS SO.
- 3. AFTER THE ELECTRICAL CONTRACTOR HAS DISCONNECTED ELECTRIC SUPPLIES TO ITEMS TO BE DEMOLISHED, HE SHALL ADVISE THE GENERAL CONTRACTOR OF ANY ELECTRIC ITEMS TO BE RETAINED FOR FUTURE USE AND THEREFOR NOT TO BE DEMOLISHED. THE GENERAL CONTRACTOR SHALL THEN PERFORM ALL WORK ZONE DEMOLITION. THIS MATTER APPLIES TO ALL ELECTRIC ITEMS, OF ANY VOLTAGE OR PURPOSE.

 4. THE SPECIAL (SPECIEIC ITEMS SHOWN ON THE DRAWING FOR FLECTRICAL CONTRACTOR TO ACT ON WERE FOUND BY SURVEY.)
- 4. THE SPECIAL/SPECIFIC ITEMS SHOWN ON THE DRAWING FOR ELECTRICAL CONTRACTOR TO ACT ON WERE FOUND BY SURVEY.

 NUMEROUS LOCATIONS WERE BLOCKED BY FURNITURE, ETC. AND ADDITIONAL EQUAL TYPE ITEMS MAY BE PRESENT. THE

 ELECTRICAL CONTRACTOR SHALL ALLOW FOR THIS IN HIS BID PRICE AND ATTEND TO THOSE EQUAL OR SIMILAR DEVICES AS MAY
- 5. REMOVAL ITEMS THAT ARE LISTED AS TO BE TURNED OVER TO OWNER'S INVENTORY SHALL BE DISCUSSED WITH THE DISTRICT BUILDINGS AND GROUNDS MANAGER. THOSE ITEMS THAT THE OWNER DECLINES SHALL THEN BE DISPOSED OF BY THE CONTRACTOR IN THE MANOR OF OTHER PERMANENT REMOVALS. ANY PCB BEARING FLUORESCENT FIXTURES SHALL BE
- RETAIN EXISTING RECEPTACLES IN WALLS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. RETAIN LIGHT SWITCH LOCATIONS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. INSTALL BLANKING PLATE COVERS OVER THE UNUSED PORTION OF GANG BOXES HAVING MORE GANG POSITIONS THAN NEEDED FOR NEW SWITCHES.
 LIGHT FIXTURES ARE TO BE REMOVED AS GENERAL, NON ELECTRIC, CONTRACTOR DEMOLITION. DIVISION 16 CONTRACTOR
- RESPONSIBLE TO SAFE OFF LIGHTUING CIRCUITS FOR REMOVAL BY OTHERS. NO SPECIFIC QUANTITIES OR LOCATIONS ARE SHOWN. RETURN WHATEVER QUANTITY, IF ANY, OF THESE TO OWNER'S INVENTORY IF HE SO SPECIFIES OR THEY ARE OTHERWISE TO BE DISPOSED OF. ELECTRICAL CONTRACTOR SHALL EXAMINE FIXTURES FOR PRESENCE OF PCB'S AND SPECIAL DISPOSAL.

 8. THE ELECTRICAL CONTRACTOR SHALL COVER ALL BACK BOXES IN THE WALL THAT BECOME EXPOSED DUE TO DEVICE REMOVALS.
- THIS INSTRUCTION ALSO APPLIES TO EXPOSED ELECTRICAL BACK BOXES AS MAY EXIST AT THE SITE PRIOR TO THIS PROJECT.
 THE COVER SHALL BE BRUSHED ALUMINUM WITH CHAMFERED EDGES AND COVER THE HOLE COMPLETELY WITH AT LEAST 3/4"
 EXTRA MARGIN ON ALL SIDES. MOUNT THE COVER WITH SCREWS TO MATCH THE ORIGINAL PATTERN.

 9. IT IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRIC SUPPLIES, OF VARIOUS VOLTAGES AND PURPOSES, TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRIC SOURCES WHEN THE NEW STRUCTURE IS
- CONTRACTOR'S RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRIC SOURCES WHEN THE NEW STRUCTURE IS BUILT. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. PROVIDE ALL REQUIRED CIRCUIT EXTENSIONS AS REQUIRED TO RESTORE SERVICE TO DEVICES. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NOMINALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTOR'S
- 10. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES, FROM DAMAGES DURING CONSTRUCTION, WHICH ARE EITHER INDICATED TO REMAIN, AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO: SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLE, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY
- DAMAGED DEVICES AT NO ADDITIONAL COST TO OWNER.

 ALL SYSTEM ASSOCIATED WITH THE DEVICES SCHEDULED TO BE REMOVED, STORED AND PROTECTED SHALL BE TESTED BY THE MANUFACTURER'S CERTIFIED TESTING VENDOR PRIOR TO ANY DEMOLITION ACTIVITY. ANY DEVICE WHICH FAILS THE TEST SHALL BE REPLACED WITH A FORM, FIT AND FUNCTION COMPONENT PER UNIT PRICES, AND SUCH DEVICES ARE NOT INCLUDED IN THIS RESPONSIBILITY STATEMENT, BUT ALSO SUCH INSTALLATION SHALL BE IN THE ELECTRICAL CONTRACTOR'S BASE BID. THE ELECTRICAL CONTRACTOR SHALL RE-TEST ALL SUCH SYSTEM COMPONENTS BY A MANUFACTURER CERTIFIED TESTING VENDOR OF SUCH SYSTEM OF ALL PREVIOUSLY TESTED SYSTEM COMPONENTS AFTER ALL WORK BY ALL TRADES HAS BEEN COMPLETED, AND ALL SYSTEM COMPONENTS HAVE BEEN INSTALLED. ANY COMPONENT WHICH FAILS SHALL BE REPLACED, AND PROGRAMMED IF NECESSARY BY THE ELECTRICAL CONTRACTOR. ALL SUCH REPLACEMENT AND PROGRAMMING COSTS SHALL BE ELECTRICAL CONTRACTOR'S RESPONSIBILITY. ALL COSTS ASSOCIATED WITH THE TESTING OF AFFECTED SYSTEM SUCH AS BUT NOT LIMITED TO FIRE ALARM, PUBLIC ADDRESS, INTERCOM, TELEPHONE, AND SECURITY SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL EQUIPMENT, DEVICES, WIRING AND THEIR ASSOCIATED MATERIAL SPECIFIED TO REMAIN, WHICH IS NOT STORED AND PROTECTED, SHALL BE PROTECTED DURING THE DEMOLITION ACTIVITIES, AND ALL TRADES SHALL BE INFORMED OF SUCH COMPONENTS. ANY OF SUCH COMPONENTS WHICH BECOME DAMAGED DURING DEMOLITION SHALL BE REPLACED FORM, FIT AND FUNCTION BY THE ELECTRICAL CONTRACTOR AT HIS EXPENSE.

ABBREVIATIONS

REVIATIONS	
E, EX	EXISTING
ETR	EXISTING TO REMAIN
PSEGLI	PSE&G LONG ISLAND (UTILITY CO.)
SM, S.M.	SURFACE MOUNTED
U.O.N.	UNLESS OTHERWISE NOTED
EC, E.C.	ELECTRICAL CONTRACTOR
GC, G.C.	GENERAL CONTRACTOR
MC, M.C.	MECHANICAL CONTRACTOR
PC, P.C.	PLUMBING CONTRACTOR
TYP.	TYPICAL
REQ'D	REQUIRED
O.C.	ON CENTER
CKT	CIRCUIT
AFF	AWAY FROM FLOOR
СВ	CIRCUIT BREAKER
REC.	RECEPTACLE
ACT	ABOVE COUNTERTOP

TEMPORARY POWER CONSTRUCTION NOTES: (NOT ALL APPLY)

- 1. THE DIVISION 16 CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHT IN THE NEW AREAS 'D', AND 'E' AND THE RECONSTRUCTED AREAS OF THE EXISTING BUILDING.
- ALL TEMPORARY POWER PANELS AND FUSED SWITCHES OUTSIDE SHALL BE NEMA 3R CONSTRUCTION AND LOCKABLE. ALL OUTSIDE RECEPTACLES SHALL BE WATERPROOF AND HAVE A COVER THAT ENCLOSES THE PLUGGED IN CORDS WHILE IN SERVICE AS INTERMATIC WP120C. NON-WATERPROOF GEAR IN A HOUSING IS NOT ACCEPTABLE.
 ALL RECEPTACLES SHALL BE GFCI PROTECTED AND MOUNTED 3'-0" ABOVE FINISHED FLOOR. PROVIDE WORK BLOCKING AS
- REQUIRED. ALL RECEPTACLES OUTLETS SHALL BE 2 GANG DOUBLE DUPLEX.

 4. TEMPORARY LIGHTING SHALL BE CONSTRUCTED OF SINGLE AND DOUBLE 100 WATT CLEAR INCANDESCENT LAMPS, OR EQUIVALENT, AND WATERPROOF RUBBER SOCKETS, SPLICED WITH WATERPROOF CONNECTORS ON FESTOONED ROMEX-TYPE WIRE. ADEQUACY OF ALL TEMPORARY LIGHTING CONFIGURATIONS SHALL BE AS DETERMINED BY THE CONSTRUCTION MANAGER. PRE ASSEMBLED TEMPORARY LIGHTING IS DISALLOWED. TAPS AND SPLICES SHALL BE MADE WITH SCOTCH LOCK CONNECTORS, RUBBER TAPE, AND THEM PVC COATED. THE CONNECTORS SHALL BE FILLED WITH PENETROX. A PLASTIC SHAPE ON CAGE/GUARD SHALL PROTECT EACH SOCKET AND LAMP. NOMINAL SPACING BETWEEN LAMP CLUSTER IS 16 FEET. MOUNT LIGHTS EIGHT FEET ABOVE FINISHED FLOOR IN TYPICAL LOCATIONS AND 10 FEET ABOVE FINISHED FLOOR IN CORRIDOR. PROVIDE NIGHT LIGHTING CIRCUIT, WHICH SHALL OPERATE CONTINUOUSLY. ALL LAMPS SHALL BE 130 VOLT, ROUGH SERVICE RATED. TEMPORARY LIGHTS SHALL BE TO OSHA STANDARDS. ALTERNATE FIXTURES SHALL BE 400W CONSTRUCTION SITE STYLE
- PROVIDE HOOK UPS TO JOB TRAILER FOR ALL TRADES. USE SITE POWER AS SOURCE. OWNER PAYS FOR POWER CONSUMPTION.
 WIRING SHALL BE 1#12+1#12(N)+1#12(G) ROMEX STYLE. CIRCUITS SHALL BE OPERATED A MAXIMUM OF 15 AMPS OR 1800 WATTS (18 100 WATT LAMPS), SWITCHING SHALL BE DONE VIA THE SWITCH RATED 20A, 10 CIRCUIT BREAKERS. SEGREGATE THE NIGHT
- LIGHTS AND RECEPTACLES IN THE LOWER PART OF THE POWER PANELS AND LABEL THESE "<u>DO NOT</u>

 7. <u>TURN OFF"</u>. CIRCUIT HOME RUNS CONDUCTORS SHALL INCREASE ONE WIRE SIZE EVERY 100 FEET I.E. #10 CONDUCTORS. WIRING WITHIN THE ROOM AREA SHALL BE MADE WITH #12 CONDUCTORS.
- 8. THE DIVISION 16 CONTRACTOR SHALL PREPARE EACH PANEL SCHEDULE.
 9. A LENGTH OF GREENFIELD FLEX CONDUIT AT PINCH POINTS SHALL PROTECT ALL WIRE, SUCH AS WHERE WIRING PASSED THROUGH A DOORWAY. WIRING SHALL BE SUPPORTED FROM ANCHORS INSTALLED BY THE DIVISION 16 CONTRACTOR FOR THE PURPOSE OF ATTACHMENT TO PROJECT. ALL FLECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.
- PURPOSE OF ATTACHMENT TO PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.

 10. ALL WIRING SHALL BE INSTALLED SO AS NOT TO CAUSE TRIPPING HAZARD OR SIMILAR OBSTRUCTION.

 11. POWER PANELS SHALL BE EQUIPPED WITH 42 1P, 20A CIRCUIT BREAKERS AND ALL CIRCUIT BREAKERS NOT IN SERVICE SHALL BE
- LABELED SPARE. AT THE OWNERS OPTION PANEL AND CIRCUIT BREAKERS SHALL BE TURNED OVER TO OWNERS INVENTORY AT CONCLUSION OF THE PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.

 12. THE DIVISION 16 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF TEMPORARY LIGHTING AND POWER SYSTEMS DURING, AND AFTER INSTALLATION, UP TO THE TIME OF BENEFICIAL OCCUPANCY, AND TIME OF REMOVAL. REPAIRS SHALL BE
- MADE WITHIN 24 HOURS OF THE REPORTED OUTAGE, OR AS DIRECTED BY THE CONSTRUCTION MANAGER. DIVISION 16
 CONTRACTOR SHALL COMMENCE WORK ON THIS PROJECT WITH A GROSS OF SPARE CONSTRUCTION BULBS AT HIS IMMEDIATE
 DISPOSAL.

 13. REMOVAL OF THE TEMPORARY POWER AND LIGHTING SHALL BE THE RESPONSIBILITY OF THE DIVISION 16 CONTRACTOR WHEN
 THE PROJECT IS COMPLETE. ALL EQUIPMENT, WIRING SUPPORTS, CONNECTORS, ETC. SHALL BE REMOVED FROM OWNER'S
- PROPERTY AFTER PROJECT IS COMPLETE. INCLUDE STATEMENT OF REMOVAL WITHIN CLOSE OUT DOCUMENTS, REQUIRED FOR FINAL PAYMENT.

 14. PROVIDE THE TEMPORARY ELECTRICAL SERVICE TO THE CONSTRUCTION TRAILERS SHALL BE AS PER USERS REQUIREMENTS
- OF THE TRADES. TEMPORARY SERVICES ARE REQUIRED PER SPECIAL CONDITIONS OF THE PROJECT.

 15. ALL TEMPORARY POWER WORK SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER SPECIAL EMPHASIS SHALL BE EXERCISED FOR TERRAZZO MACHINES AND ITS ELECTRICAL REQUIREMENT.

FIRE STOP NOTES:

- 1. ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED.

 2. THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, 6P-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-635 TROWEL ABLE COMPOUND, AS SUITABLE.
- 3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS SPECIFIED OR <u>EQUAL</u>.
- 4. FIRE STOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS AND STATEMENT FROM MANUFACTURER THAT THEY MEET OR EXCEED THE PRODUCTS SPECIFIED
- 5. ALL SYSTEMS SHALL HAVE THEIR OWN SLEEVE THROUGH FIRE RATED WALLS. IE FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA, POWER AND LIGHTING.

	ELECTRICAL SYMBOL LEGEND
(S)	SMOKE DETECTOR - CEILING MOUNTED
S	SPEAKER - CEILING MOUNTED
R	FIRE ALARM RELAY
CR	CARD READER
$\overline{}$	DATA BOX - PROVIDE RJ45 CONNECTION AND CAT6 CABLE
FACP	FIRE ALARM CONTROL PANEL
φ	DUPLEX RECEPTACLE
P	DOUBLE DUPLEX RECEPTACLE
\bigcirc	MECHANICAL EQUIPMENT CONNECTION
	DISCONNECT - NEMA 3R RATED FOR OUTDOOR - NEMA 1 FOR INDOORS
F	FIRE ALARM PULL BOX
	FIRE ALARM COMBINATION AUDIO/VISUAL NOTIFICATION
\$	LIGHTING SWITCH
	LINEAR LIGHTING FIXTURE
	2' X 2' RECESSED FIXTURE

SIMILAR SYMBOLS USED ON DEMO PLANS. ALL ITEMS SHOWN ON DEMO PLAN TO BE REMOVED ENTIRELY UNLESS OTHERWISE NOTED.

LINE DESIGNATIONS

DEVICES TO BE REMOVED. PULL BACK ALL ASSOCIATED CONDUIT AND WIRING AND REMOVE UNLESS OTHERWISE NOTED ON THE PLANS

EXISTING TO REMAIN DEVICES

NEW DEVICES

REV.	DATE	ITEM
		_

<u>NOTIC</u>

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19-04-01-06-0-005-022

DISTRICT CATSKILL CENTRAL SCHOOL

PROJECT 2019 BOND - ADDITIONS & RENOVATION PROJECT PHASE 2

DWG TITLE GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

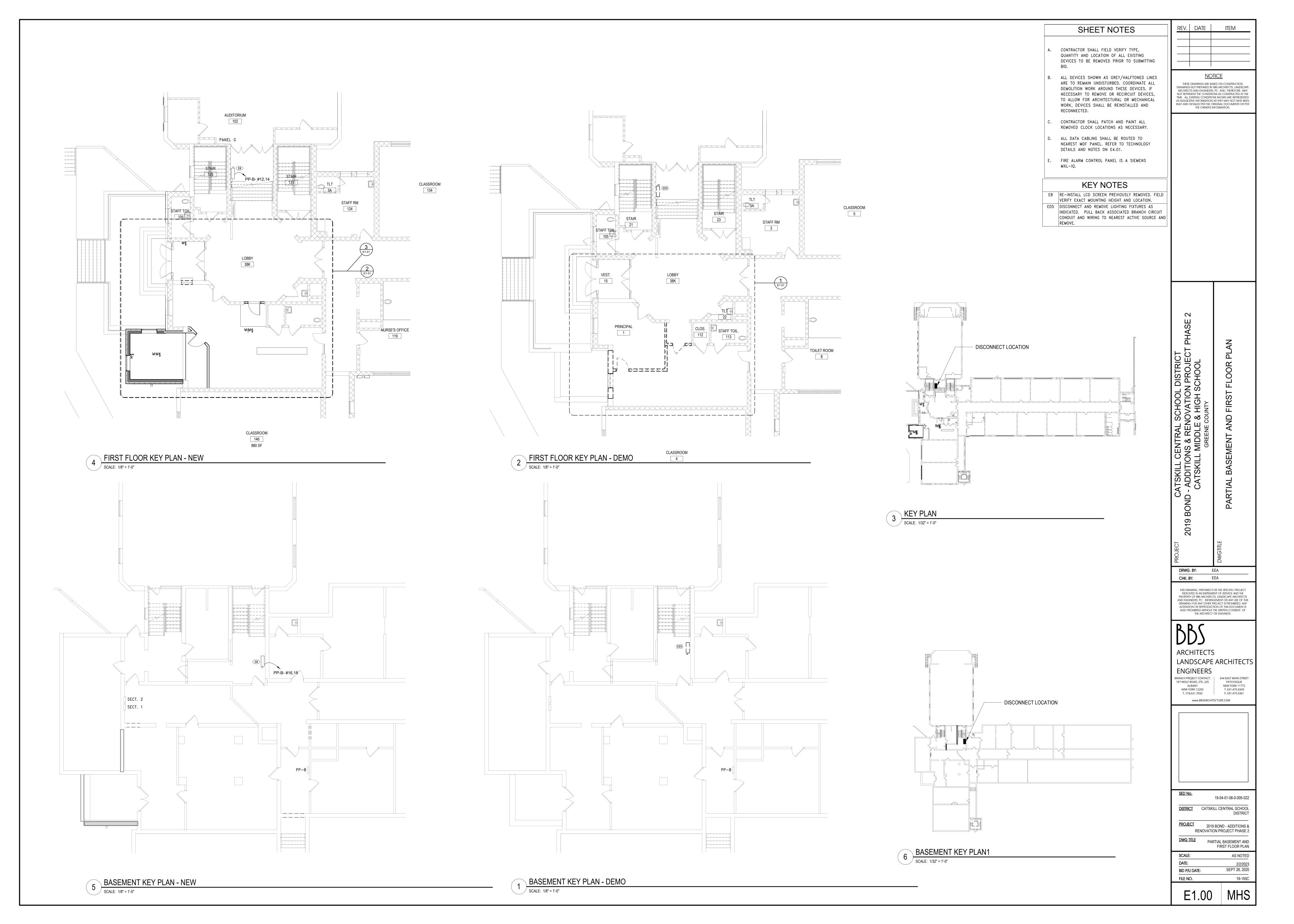
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 AS NOTED

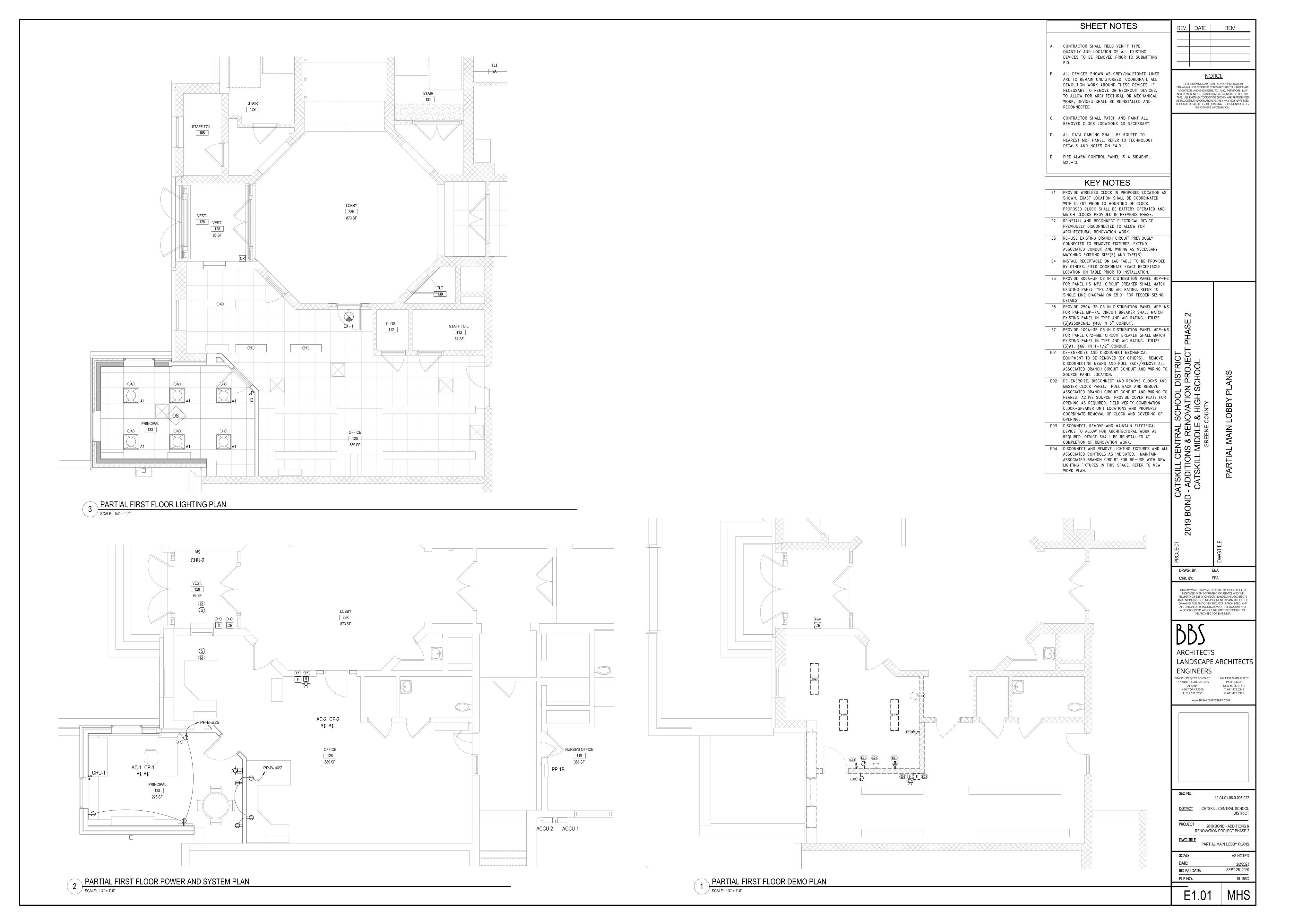
 DATE:
 2/2/2023

 BID P/U DATE:
 SEPT 28, 2020

 FILE NO.
 19-155C

0.01 MHS





Location: STAIR Supply From: Mounting: SURFACE						Volts: Phases: Wires:	_	Mains Type: MLO Mains Rating: 100 A						
СКТ	Circuit Description	Trip	Poles		A		В		С	Poles	Trip	Circuit Description	CK	
1	EXSTING CKT	20 A	1	0 VA	0 VA					1	20 A	EXSTING CKT	2	
3	EXSTING CKT	15 A	1			0 VA	0 VA			1	20 A	EXSTING CKT	4	
5	EXSTING CKT	20 A	1					0 VA	0 VA	1	20 A	EXSTING CKT	6	
7	EXSTING CKT	20 A	1	0 VA	0 VA					1	20 A	EXSTING CKT	8	
9	EXSTING CKT	20 A	1			0 VA	0 VA			1	20 A	EXSTING CKT	10	
11	EXSTING CKT	15 A	1					0 VA	0 VA	1	20 A	EXSTING CKT	1	
13	EXSTING CKT	15 A	1	0 VA	0 VA					1	20 A	EXSTING CKT	14	
15	EXSTING CKT	15 A	1			0 VA	0 VA			1	20 A	EXSTING CKT	10	
17	EXSTING CKT	20 A	1					0 VA	0 VA	2	20 A	ACCU-1 & CP-1	18	
19					0 VA								2	
21													2:	
23													2	
			l Load:		VA A		VA A		VA) A					

Notes:
PROVIDE CIRCUIT TO MATCH PANEL TYPE AND AIC RATING

Location: CORR. 013 Supply From: Mounting: SURFACE					Volts: 120/208 Wye Phases: 3 Wires: 4							A.I.C. Rating: Mains Type: MCB Mains Rating: 125 A				
СКТ	Circuit Description	Trip	Poles	,	А В		В		С	Poles		Circuit Description	СКТ			
1	STORAGE RM LIGHTS (E)	20 A	1	0 VA	0 VA					1	20 A	NURSE OFFICES DECP. (E0	2			
3	FACULTY RM LIGHTS (E)	20 A	1			0 VA	0 VA			1	20 A	EXIT LIGHTS (E)	4			
5	ELEV CAB LIGHTS (E)	20 A	1					0 VA	0 VA	1	20 A	HALLWAY LIGHTS AND STAIR LIGHTS	6			
7	CTU-1 (E)	20 A	1	0 VA	0 VA					1	20 A	CUH-1 (E)	8			
9	ANDOVER AHU (E)	20 A	1			0 VA	0 VA			1	20 A	STORAGE RM LIGHTS NEAR STAIRWA	. 10			
11	BACK MECH RM LIGHTS (E)	20 A	1					0 VA	0 VA	2	20 A	LIFT	12			
13	GX-2 (E)	20 A	1	0 VA	0 VA								14			
15	LIGHTS MECH RM AND ELEC PIT (E)	20 A	1			0 VA	0 VA			2	20 A	LIFT	16			
17	FACULTY RM RECEPT (E)	20 A	1					0 VA	0 VA				18			
19	FACULTY RM RECEPT (E)	20 A	1	0 VA	0 VA					3	20 A	GX-1 (E)	20			
21	FACULTY RM RECEPT (E)	20 A	1			0 VA	0 VA						22			
23	FACULTY RM RECEPT (E)	20 A	1					0 VA	0 VA				24			
25	OFFICE RECEPT	20 A	1	540 VA	0 VA					3	20 A	STARTER BOILER RM (E)	26			
27	OFFICE RECEPT	20 A	1			720 VA	0 VA						28			
29	RED BASEMENT THERAPY (E)	20 A	1					0 VA	0 VA				30			
31	CTU-2 (E)	20 A	3	0 VA	0 VA					3	20 A	COPY MECH	32			
33						0 VA	0 VA						34			
35								0 VA	0 VA				36			
37	AHU-1 (E)	20 A	3	0 VA	0 VA					1	20 A	BLUE BASEMENT STRINGS RM	38			
39						0 VA	0 VA			1	20 A	EXISTING CIRCUIT	40			
41								0 VA	0 VA	1	20 A	EXISTING CIRCUIT	42			
		Tota	l Load:	540	VA	720	VA		VA							
			I Amps:	5		7			A	_						

Location: Supply From: Mounting: SURFACE					Volts: 120/208 Wye Phases: 3 Wires: 4						Mair	A.I.C. Rating: Mains Type: MCB Mains Rating: 125 A				
СКТ	Circuit Description	Trip	Poles		A	ı	3		С	Poles	Trip	Circuit Description	CK			
1	EXSTING CKT	20 A	1	0 VA	0 VA					2	60 A	EXSTING CKT	2			
3	EXSTING CKT	20 A	1			0 VA	0 VA						4			
5	EXSTING CKT	20 A	1					0 VA	0 VA	1	20 A	EXSTING CKT	6			
7	EXSTING CKT	20 A	3	0 VA	0 VA					3	40 A	EXSTING CKT	8			
9						0 VA	0 VA						10			
11								0 VA	0 VA				12			
	EXSTING CKT	20 A	1	0 VA	0 VA					1	20 A	EXSTING CKT	14			
	EXSTING CKT	20 A	1			0 VA	0 VA			1	20 A	EXSTING CKT	16			
	EXSTING CKT	20 A	1					0 VA	0 VA	1	20 A	EXSTING CKT	18			
19	EXSTING CKT	20 A	1	0 VA	0 VA					1	20 A	EXSTING CKT	20			
21	EXSTING CKT	20 A	2			0 VA	0 VA			1	20 A	EXSTING CKT	22			
23								0 VA	0 VA	2	20 A	EXSTING CKT	24			
25	EXSTING CKT	20 A	2	0 VA	0 VA								26			
27						0 VA	0 VA			2	20 A	EXSTING CKT	28			
29	EXSTING CKT	60 A	2					0 VA	0 VA				30			
31				0 VA	0 VA					1	20 A	EXSTING CKT	32			
33	EXSTING CKT	90 A	2			0 VA	0 VA			1	20 A	EXSTING CKT	34			
35								0 VA	0 VA	1	20 A	EXSTING CKT	36			
37	EXSTING CKT	30 A	3	0 VA	0 VA					1	20 A	EXSTING CKT	38			
39						0 VA	0 VA			1	40 A	EXSTING CKT	40			
41								0 VA	0 VA	1	20 A	CHU-1 AND 2	42			
		Tota	l Load:	0	VA	0 '	VA	0	VA							
		Tota	l Amps: ¯	C	Α	0	A	C) A	_						

	Location: Supply From: Mounting: SU		Volts: 120/208 Wye Phases: 3 Wires: 4						A.I.C. Rating: Mains Type: MCB Mains Rating: 125 A				
СКТ	Circuit Description	Trip	Poles	,	A		3		C	Poles	Trip	Circuit Description	скт
	EXSTING CKT	100 A	3	0 VA	0 VA					1	20 A	EXSTING CKT	2
3						0 VA	0 VA			1	20 A	EXSTING CKT	4
5								0 VA	0 VA	2	50 A	EXSTING CKT	6
	EXSTING CKT	40 A	2	0 VA	0 VA								8
9						0 VA	0 VA	2.11	2.11	2	40 A	EXSTING CKT	10
	EXSTING CKT	20 A	1	- > / /	2.11			0 VA	0 VA				12
	EXSTING CKT	20 A	1	0 VA	0 VA	2.11	2) //			1	20 A	EXSTING CKT	14
	EXSTING CKT	20 A	1			0 VA	0 VA		2) (1	1	20 A	EXSTING CKT	16
	EXSTING CKT	20 A	1		2.112			0 VA	0 VA	1	20 A	EXSTING CKT	18
	EXSTING CKT	20 A	1	0 VA	0 VA	0.1/4	0.144			1	20 A	EXSTING CKT	20
	EXSTING CKT	20 A	1			0 VA	0 VA	2.11	2) (1	1	20 A	EXSTING CKT	22
	EXSTING CKT	20 A	1	0.1/4	0.144			0 VA	0 VA	1	20 A	EXSTING CKT	24
	EXSTING CKT	20 A	1	0 VA	0 VA	0.1/4	0.1/4			1	20 A	EXSTING CKT	26
	EXSTING CKT	20 A	1			0 VA	0 VA	0.1/4	0.1/4	1	20 A	EXSTING CKT	28
	EXSTING CKT EXSTING CKT	20 A 20 A	1	0 VA	0.1/4			0 VA	0 VA	1	20 A	EXSTING CKT EXSTING CKT	30
	EXSTING CKT	20 A	1	UVA	0 VA	0 VA	0 VA			1	20 A 20 A	EXSTING CKT	32
	EXSTING CKT	20 A	1			UVA	UVA	0.1/4	0.1/4	1	20 A	EXSTING CKT	34 36
	EXSTING CKT	20 A	1	0 VA	0 VA			0 VA	0 VA			SPACE	38
				UVA	UVA	0.1/4	0.1/4						40
	EXSTING CKT	90 A	2			0 VA	0 VA	0.1/4	0.1/4	2	20 A	ACCU-2 & CP-2	
41		 T-4-		0.1	\	0.1		0 VA	0 VA				42
	Total Load: Total Amps:				VA A		VA A		VA A				

				Elect	rical Fixture	Schedule						
Mark	DESCRIPTIONN	VOLTAGE	PHASE	AMPS	Panel	Circuit Number	CIRCUIT BREAKER	CONDUIT AND WIRING	PROVIDE DISCONNECT	FSD	DUCT SMOKE DETECTOR	NOTES
AC-1	INDOOR AC UNIT	208	1					(2)#12, #12G. IN 3/4" CONDUIT	Yes			FED FROM OUTDOOR UNIT
AC-2	INDOOR AC UNIT	208	1					(2)#12, #12G. IN 3/4" CONDUIT	Yes			FED FROM OUTDOOR UNIT
ACCU-1	OUTDOOR AC UNIT	208	1	11.9 MCA	PANEL G	18,20	20A-2P	(2)#12, #12G. IN 3/4" CONDUIT	Yes			
ACCU-2	OUTDOOR AC UNIT	208	1	20 MCA	SECT. 2	40,42	30A-2P	(2)#12, #12G. IN 3/4" CONDUIT	Yes			
CHU-1	CABINET UNIT HEATER	120	1	.8 FLA	SECT. 1	42	15A-1P	(2)#12, #12G. IN 3/4" CONDUIT	Yes			
CHU-2	CABINET UNIT HEATER	120	1	.8 FLA	SECT. 1	42	15A-1P	(2)#12, #12G. IN 3/4" CONDUIT	Yes			
CP-1	CONDENSATE PUMP	208	1	1 FLA	PANEL G	18,20	15A-2P	(2)#12, #12G. IN 3/4" CONDUIT	Yes			
CP-2	CONDENSATE PUMP	208	1	1 FLA	SECT. 2	40,42	15A-2P	(2)#12, #12G. IN 3/4" CONDUIT	Yes			

	265000 - LIGHTING FIXTURE SCHEDULE									
TAG	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	WATTAGE / CCT / LAMP / CRI	VOLTAGE	REMARKS				
A1	2'X2' RECESSED LED WITH BEVEL OPTION. DLC LISTED WITH 6500 LUMEN PACKAGE.	COOPER METALUX	22PD-65-PB1-L835	58W/3500K/LED/80+	UNV					
EX-1	INDOOR EXIT SIGN WITH NICKEL-CADMIUM BATTERY	ACUITY BRANDS EDG AND EDGR SER	EDG/EDGR-W-1-G-EL-WM	LED	UNV					

DATE	ITEM						
<u>NOTICE</u>							
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2019

DRWG. BY: Author

CHK. BY: Checker

ARCHITECTS

ENGINEERS

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19-04-01-06-0-005-022

SCHEDULES

AS NOTED

2/2/2023 SEPT 28, 2020

DISTRICT CATSKILL CENTRAL SCHOOL DISTRICT

PROJECT 2019 BOND - ADDITIONS & RENOVATION PROJECT PHASE 2

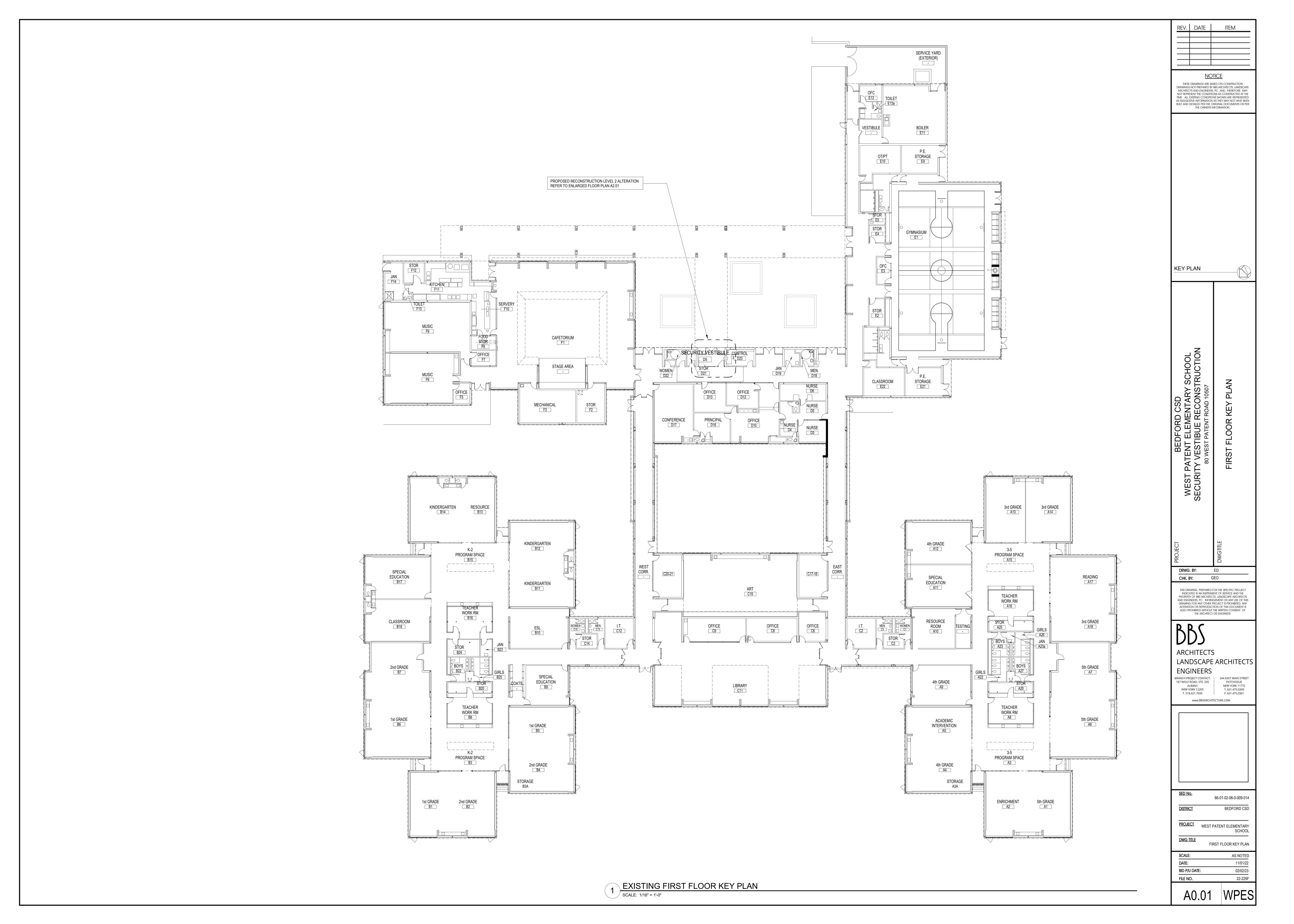
DWG TITLE

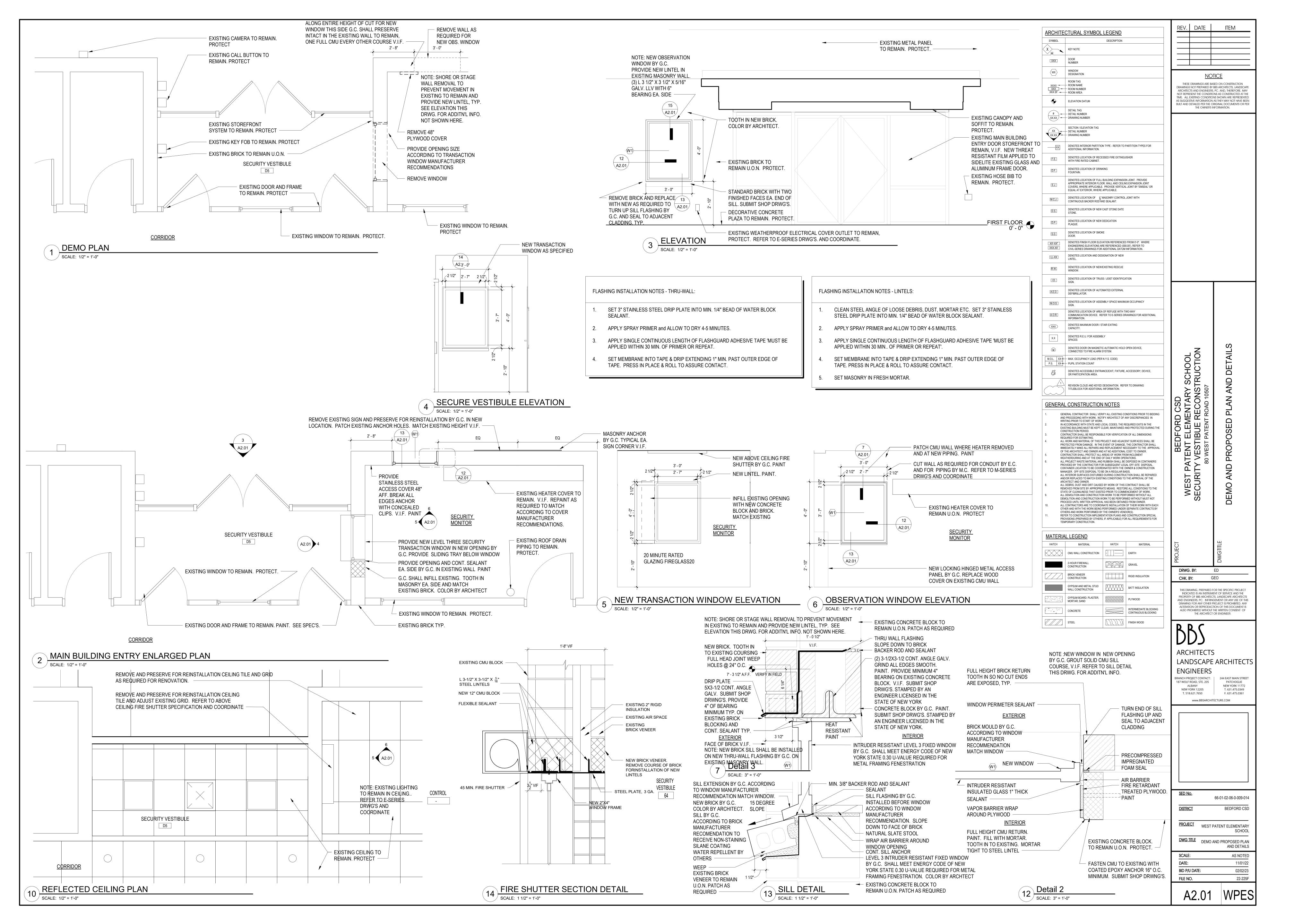
SCALE:

DATE:

BID P/U DATE:

FILE NO.





VERIEY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEC, APPLICABLE LOCAL CODES, STATE CODES,
- SCHOOL WORKING RULES AND SCHEDULE DIRECTIVES, AND THE ENGINEER'S SPECIFICATIONS. THE VOLTAGE CHARACTERISTIC OF EXISTING BUILDING IS 208Y/120V, 3-PASE, 4-WIRE. THE VOLTAGE CHARACTERISTIC OF THE PROPOSED ADDITION SHALL BE 480/277V, 3-PHASE 4-WIRE WITH 208/120V DERIVED FROM STEP DOWN TRANSFORMERS., ALL
- EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS. THE DRAWINGS SHOW SCHEMATICALLY, THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO INSTALLATION, ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL
- DIVISION 16 CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS/SPECIFICATIONS AND ACTUAL FIELD

CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEERS ATTENTION BEFORE BID SUBMITTAL.

- DIVISION 16 CONTRACTOR SHALL PROVIDE ALL LABOR SERVICE MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL AUTHORITIES HAVING
- DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL
- MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED. DIVISION 16 CONTRACTOR SHALL PAY ANY FEES APPLICABLE TO ELECTRICAL WORK, SUCH AS, BUT NOT LIMITED TO, THE POWER
- COMPANY, TELEPHONE COMPANY, CATV, CERTIFIED ELECTRICAL INSPECTORS, ALARM AND FIRE PROTECTION COMPANIES. THE DIVISION 16 CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS
- BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE SCHOOL DISTRICT BUILDINGS AND GROUNDS DEPARTMENT.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN INSPECTION CERTIFICATE AND PAY ASSOCIATED FEE. SUBMIT A PHOTOCOPY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION.
- DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS DEFINED IN SECTION 1700 OF THE PROJECT MANUAL.
- A COMPLETE SYSTEM OF WIRING, WITH ALL FEEDERS, MAINS, AND BRANCHES AS SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED FROM THE MAIN DISTRIBUTION BOARD TO THE PANELS OUTLETS, MOTORS, AND APPURTENANCES. PROVIDE IDENTIFICATION FOR ALL PANEL AND MOTOR FEEDER CABLES IN PULL BOXES AND AT TERMINATIONS. ANY CONDUCTOR
- VOLTAGES HIGHER THAN 240 VOLTS SHALL BE MARKED ON DEVICES AND JUNCTION BOXES. FURNISH AND INSTALL ALL WIRING OF ANY VOLTAGE OR PURPOSE AS SHOWN ON THE DRAWINGS.
- ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARING COMMON NEUTRALS AMONG BUNDLED CIRCUITS IS SPECIFICALLY DISALLOWED UNLESS OTHERWISE NOTED.
- PULL/JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED OR AS OTHERWISE REQUIRED TO FACILITATE THE PROPER INSTALLATION OF WIRES AND CABLES, CONDUITS MAY BE INCREASED IN SIZE FOR CONSTRUCTION CONVENIENCE.
- FURNISH AND INSTALL ALL DISCONNECT DEVICES AND SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED TO CONFORM WITH REQUIREMENTS.
- FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION. DIVISION 16 CONTRACTOR SHALL PROVIDE TO SCHOOL 5 PERCENT SPARE LAMPS (MINIMUM QUANTITY 1) OF EACH TYPE SPECIFIED
- PROVIDE ALL WIRING, PANEL BOARDS, SWITCHES, FUSES, EQUIPMENT, AND ALL INCIDENTAL MATERIALS REQUIRED TO SUPPLY
- TEMPORARY AND PERMANENT ELECTRICAL NEEDS FOR THE WORK INVOLVED, ALL IN ACCORDANCE WITH OSHA, LOCAL, STATE AND ALL WIRING TO BE 1#12+1#12(N)+1#12(G)-3/4"C., OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. RUN BRANCH CIRCUITS IN DROPPED CEILINGS. VOIDS. & CHASES. CONDUITS MAY BE SURFACE MOUNTED IN MECHANICAL SPACES UNLESS OTHERWISE NOTED. CONDUITS IN PUBLIC AREAS SHALL BE CONCEALED IN HUNG CEILINGS, EMBEDDED IN SLAB OR MASONRY WALLS, EXCEPT WHERE SURFACE MOUNTED RACEWAY IS SPECIFIED. ALUMINUM JACKETED MC
- ALL CONNECTIONS AND/OR SPLICES SHALL BE MADE ONLY IN ACCESSIBLE JUNCTION BOXES.
- ALL COUPLINGS AND CONNECTORS FOR USE WITH EMT SHALL BE COMPRESSION TYPE. SET SCREW TYPE OR INDENT TYPE FITTINGS
- 24. ALL CONNECTIONS TO CONDUIT RUN UNDERGROUND SHALL BE MADE WATERTIGHT. ALL METALLIC CONDUIT INSTALLED IN EARTH FILL, AS WELL AS UNDERGROUND, SHALL BE PAINTED WITH (2) COATS OF ASPHALTUM PAINT OR EQUAL. WIRING INSTALLED IN CEILINGS SHALL BE HUNG INDEPENDENT OF CEILING SYSTEM AND SECURELY TIED TO BUILDING STEEL. ALL LOW VOLTAGE (FIRE ALARM, PA INTERCOM, PHONE, DATA, ETC.) WIRING INSTALLED IN OPEN AREAS SHALL BE IN METALLIC RACEWAY IN MECHANICAL AREAS, GYMNASIUMS, ART ROOMS, STOREROOMS, ETC., AND IN SURFACE MOUNTED RACEWAY IN PUBLIC AREAS, LOW VOLTAGE WIRE INSTALLED IN DROPPED CEILINGS SHALL BE BUNDLED TOGETHER AND SUPPORTED BY BUILDING STEEL. LOW VOLTAGE WIRE SHALL NOT BE SUPPORTED WITH BRANCH CIRCUITS OR FEEDER CIRCUITS AND SHALL NOT BE SUPPORTED BY
- CONDUIT, PIPES, ETC.. LOW VOLTAGE WIRING NOT INSTALLED IN CONDUITS, SHALL BE PLENUM RATED. CONDUITS SHALL BE SECURED IN PLACE AND PROTECTED WHERE NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION.
- FURNISH AND INSTALL ALL HARDWARE TO PROPERLY SUPPORT ALL CONDUITS NOT INSTALLED IN CONCRETE SLABS OR
- 29. ALL CONDUITS OR MC CABLE SHALL BE EQUIPPED WITH AN INSULATING/CHAFE GUARD GROMMET AT WIRE EXIT/ENTRANCE. MC CABLE SHALL USE MC STYLE BUSHINGS. BX OR OTHER BUSHINGS ARE SPECIFICALLY DISALLOWED.
- WHERE AN EXISTING CONDUIT OR CABLE IS REQUIRED TO BE REMOVED BUT SERVES AND EXISTING PIECE OF EQUIPMENT WHICH IS TO REMAIN OPERABLE, THE DIVISION 16 CONTRACTOR SHALL REROUTE SAID CONDUIT OR CABLE OR PROVIDE A NEW SOURCE OF

POWER (APPROVED BY ENGINEERING) TO THIS EQUIPMENT AS A PART OF THIS CONTRACT.

- ALL PANELS, SWITCHES, DISCONNECT STARTERS, OR OTHER ELECTRIC SYSTEM CONTROLS SHALL BE STENCILED WITH THEIR APPROPRIATE DESIGNATION/FUNCTION. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED BY A PANEL SCHEDULE OR STENCIL ADJACENT
- ALL CIRCUIT BREAKERS POSITIONS IN ALL PANELS ARE SHOWN FOR ESTIMATE PURPOSES ONLY. EC IS RESPONSIBLE FOR LOAD BALANCING.
- ALL DEVICES SHALL BE FASTENED IN PLACE SECURELY. GRID MOUNTING LIGHTING FIXTURES SHALL BE SECURED TO GRID WITH
- CLIPS LISTED FOR THE PURPOSE OR SUSPENDED FROM STRUCTURE PER NEC. WORK WHICH MUST BE DONE IN OCCUPIED AREAS SHALL BE DONE AT SUCH TIMES AS INDICATED IN THE PHASING OF
- CONSTRUCTION AND AS APPROVED BY THE SCHOOL. WHERE THE DIVISION 16 CONTRACTOR IS INSTRUCTED TO PROVIDE. INSTALL AND WIRE CIRCUIT BREAKER(S) TO AN EXISTING PANEL AND THAT PANEL DOES NOT HAVE THE ROOM TO INSTALL REQUIRED CIRCUIT BREAKERS, THE DIVISION 16 CONTRACTOR SHALL
- REMOVE (3) ADJACENT 1P CIRCUIT BREAKERS AND PROVIDE A 3P, 60A BREAKER IN THEIR PLACE FOR SUB FEED TO A SURFACE MOUNTED 100A.3~ 4W.24 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL, EACH WITH REQUIRED CIRCUIT BREAKERS. PROVIDE (3) 1P, AMPERAGE AS BEFORE CIRCUIT BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3#6+1#6(N)+1#10(G)-1"C.
- 36. SELECTED RECEPTACLES AS SHOWN ON DRAWINGS MAY BE GFI PROTECTED BY CONNECTING TO GFCI RECEPTACLE FIRST IN CIRCUIT. ALL RECEPTACLES THAT ARE PROTECTED FROM AN UPSTREAM GFCI UNIT SHALL BE VISABLY LABELED AS SUCH. GFCI RECEPTACLE SHALL BE SPEC GRADE AND RATED 20A. WITH OPERATING NOTIFICATION INDICATING LIGHT.
- ALL DEVICES ADDRESSED BY ADA REGULATIONS SHALL BE INSTALLED AT ADA COMPLIANT HEIGHT AND LOCATIONS. ALL NEW LIGHTING OR EXISTING LIGHTING HAVING SWITCHING REARRANGEMENT SHALL BE EQUIPPED WITH CODE COMPLIANT ENERGY CONSERVATION CONTROLS. SUCH CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO
- REMOVAL OF ELECTRICAL ITEMS INCLUDES THEIR DISPOSAL. THE EXCEPTION WILL BE TO TURN OVER TO THE OWNER ITEMS. IF ANY. THEY SPECIFY TO BE RETAINED IN THEIR INVENTORY. PCB OR ASBESTOS BEARING MATERIAL SHALL BE DISPOSED OF IN
- ACCORDANCE WITH LAWS AND REGULATIONS. EC SHALL PROVIDE & WIRE WEATHERPROOF GFCI RECEPTACLES ON ALL APPLICABLE ROOFTOP UNITS AS PART OF HIS BID. SEE
- MECHANICAL EQUIPMENT SCHEDULES FOR UNITS WITH SERVICE RECEPTACLES FACTORY INSTALLED. UNLESS OTHERWISE NOTED, STARTERS AND DISCONNECTS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL POWERED MECHANICAL EQUIPMENT. THE DIVISION 16 CONTRACTOR IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING FROM SOURCE TO UNIT VIA STARTERS AND DISCONNECTS. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE DIVISION 16 CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS, EQUIPMENT SCHEDULES & NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, AND THE REMOVAL OF ANY STARTERS/DISCONNECTS NO

<u>DEMOLITION NOTES (NOT ALL APPLY):</u>

- 1. THE ITEMS SPECIFICALLY SHOWN ON DEMOLITION DRAWING/S ARE TO BE ADDRESSED BY THE ELECTRICAL CONTRACTOR. THE ITEMS ARE TO BE TREATED AS NOTED AND RANGE FROM DIRECT REMOVAL AND DISPOSAL, OR REMOVAL, STORAGE, AND
- REINSTALLATION/RELOCATION, OR TEMPORARY REMOVE/STORAGE, AND REINSTALLATION IN SAME LOCATION. MANY OTHER ELECTRIC ITEMS EXIST THAT ARE NOT SHOWN INCLUDE, BUT ARE NOT LIMITED TO, SWITCHES, RECEPTACLE, FLOOR OUTLETS, LOW VOLTAGE JACKS, LOW VOLTAGE DEVICES AND WIRING, TELEPHONE PUNCH DOWN BLOCKS, AND OUT OF SERVICE ITEMS. ALL SUCH ITEMS SHALL BE PERMANENTLY DE-ENERGIZED, DISCONNECTED, AND OTHERWISE MADE SAFE FOR DEMOLITION BY NON-ELECTRIC DEMOLITION WORKERS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL ELECTRIC DEVICES, OF ANY VOLTAGE OR FUNCTION, THAT ARE TO BE DEMOLISHED ARE SAFE AND ADVISE THE DEMOLITION CONTRACTOR WHEN THIS IS SO.
- AFTER THE ELECTRICAL CONTRACTOR HAS DISCONNECTED ELECTRIC SUPPLIES TO ITEMS TO BE DEMOLISHED, HE SHALL ADVISE THE GENERAL CONTRACTOR OF ANY ELECTRIC ITEMS TO BE RETAINED FOR FUTURE USE AND THEREFOR NOT TO BE DEMOLISHED. THE GENERAL CONTRACTOR SHALL THEN PERFORM ALL WORK ZONE DEMOLITION. THIS MATTER APPLIES TO ALL
- ELECTRIC ITEMS, OF ANY VOLTAGE OR PURPOSE. THE SPECIAL/SPECIFIC ITEMS SHOWN ON THE DRAWING FOR ELECTRICAL CONTRACTOR TO ACT ON WERE FOUND BY SURVEY. NUMEROUS LOCATIONS WERE BLOCKED BY FURNITURE. ETC. AND ADDITIONAL EQUAL TYPE ITEMS MAY BE PRESENT. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THIS IN HIS BID PRICE AND ATTEND TO THOSE EQUAL OR SIMILAR DEVICES AS MAY BE DISCOVERED.
- REMOVAL ITEMS THAT ARE LISTED AS TO BE TURNED OVER TO OWNER'S INVENTORY SHALL BE DISCUSSED WITH THE DISTRICT BUILDINGS AND GROUNDS MANAGER. THOSE ITEMS THAT THE OWNER DECLINES SHALL THEN BE DISPOSED OF BY THE CONTRACTOR IN THE MANOR OF OTHER PERMANENT REMOVALS. ANY PCB BEARING FLUORESCENT FIXTURES SHALL BE
- DISPOSED OF PER REGULATIONS. RETAIN EXISTING RECEPTACLES IN WALLS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. RETAIN LIGHT SWITCH LOCATIONS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. INSTALL BLANKING PLATE COVERS OVER THE UNUSED
- PORTION OF GANG BOXES HAVING MORE GANG POSITIONS THAN NEEDED FOR NEW SWITCHES. LIGHT FIXTURES ARE TO BE REMOVED AS GENERAL, NON ELECTRIC, CONTRACTOR DEMOLITION. DIVISION 16 CONTRACTOR RESPONSIBLE TO SAFE OFF LIGHTUING CIRCUITS FOR REMOVAL BY OTHERS. NO SPECIFIC QUANTITIES OR LOCATIONS ARE SHOWN. RETURN WHATEVER QUANTITY, IF ANY, OF THESE TO OWNER'S INVENTORY IF HE SO SPECIFIES OR THEY ARE OTHERWISE TO BE DISPOSED OF. ELECTRICAL CONTRACTOR SHALL EXAMINE FIXTURES FOR PRESENCE OF PCB'S AND SPECIAL
- THE ELECTRICAL CONTRACTOR SHALL COVER ALL BACK BOXES IN THE WALL THAT BECOME EXPOSED DUE TO DEVICE REMOVALS. THIS INSTRUCTION ALSO APPLIES TO EXPOSED ELECTRICAL BACK BOXES AS MAY EXIST AT THE SITE PRIOR TO THIS PROJECT. THE COVER SHALL BE BRUSHED ALUMINUM WITH CHAMFERED EDGES AND COVER THE HOLE COMPLETELY WITH AT LEAST 3/4"
- EXTRA MARGIN ON ALL SIDES. MOUNT THE COVER WITH SCREWS TO MATCH THE ORIGINAL PATTERN. IT IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRIC SUPPLIES, OF VARIOUS VOLTAGES AND PURPOSES, TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRIC SOURCES WHEN THE NEW STRUCTURE IS BUILT. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. PROVIDE ALL REQUIRED CIRCUIT EXTENSIONS AS REQUIRED TO RESTORE SERVICE TO DEVICES. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NOMINALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTOR'S
- IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES, FROM DAMAGES DURING CONSTRUCTION. WHICH ARE EITHER INDICATED TO REMAIN. AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO: SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLE, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY
- DAMAGED DEVICES AT NO ADDITIONAL COST TO OWNER. ALL SYSTEM ASSOCIATED WITH THE DEVICES SCHEDULED TO BE REMOVED, STORED AND PROTECTED SHALL BE TESTED BY THE MANUFACTURER'S CERTIFIED TESTING VENDOR PRIOR TO ANY DEMOLITION ACTIVITY. ANY DEVICE WHICH FAILS THE TEST SHALL BE REPLACED WITH A FORM, FIT AND FUNCTION COMPONENT PER UNIT PRICES, AND SUCH DEVICES ARE NOT INCLUDED IN THIS RESPONSIBILITY STATEMENT, BUT ALSO SUCH INSTALLATION SHALL BE IN THE ELECTRICAL CONTRACTOR'S BASE BID. THE ELECTRICAL CONTRACTOR SHALL RE-TEST ALL SUCH SYSTEM COMPONENTS BY A MANUFACTURER CERTIFIED TESTING VENDOR OF SUCH SYSTEM OF ALL PREVIOUSLY TESTED SYSTEM COMPONENTS AFTER ALL WORK BY ALL TRADES HAS BEEN COMPLETED, AND ALL SYSTEM COMPONENTS HAVE BEEN INSTALLED. ANY COMPONENT WHICH FAILS SHALL BE REPLACED, AND PROGRAMMED IF NECESSARY BY THE ELECTRICAL CONTRACTOR. ALL SUCH REPLACEMENT AND PROGRAMMING COSTS SHALL BE ELECTRICAL CONTRACTOR'S RESPONSIBILITY. ALL COSTS ASSOCIATED WITH THE TESTING OF AFFECTED SYSTEM SUCH AS BUT NOT LIMITED TO FIRE ALARM. PUBLIC ADDRESS. INTERCOM. TELEPHONE. AND SECURITY SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL EQUIPMENT, DEVICES, WIRING AND THEIR ASSOCIATED MATERIAL SPECIFIED TO REMAIN, WHICH IS NOT STORED AND PROTECTED, SHALL BE PROTECTED DURING THE DEMOLITION ACTIVITIES, AND ALL TRADES SHALL BE INFORMED OF SUCH COMPONENTS. ANY OF SUCH COMPONENTS WHICH BECOME DAMAGED DURING DEMOLITION SHALL BE REPLACED FORM, FIT AND FUNCTION BY THE ELECTRICAL CONTRACTOR AT HIS EXPENSE.

ABBREVIATIONS

E, EX	EXISTING
ETR	EXISTING TO REMAIN

- PSE&G LONG ISLAND (UTILITY CO.)
- SM, S.M. SURFACE MOUNTED
- U.O.N. UNLESS OTHERWISE NOTED
- EC, E.C. ELECTRICAL CONTRACTOR
- GENERAL CONTRACTOR
- MECHANICAL CONTRACTOR
- PLUMBING CONTRACTOR **TYPICAL**

REQUIRED

- ON CENTER
- CIRCUIT
- AWAY FROM FLOOR CIRCUIT BREAKER
- RECEPTACLE
- ABOVE COUNTERTOP

TEMPORARY POWER CONSTRUCTION NOTES: (NOT ALL APPLY)

- 1. THE DIVISION 16 CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHT IN THE NEW AREAS 'D', AND 'E' AND THE RECONSTRUCTED AREAS OF THE EXISTING BUILDING.
- 2. ALL TEMPORARY POWER PANELS AND FUSED SWITCHES OUTSIDE SHALL BE NEMA 3R CONSTRUCTION AND LOCKABLE. ALL OUTSIDE RECEPTACLES SHALL BE WATERPROOF AND HAVE A COVER THAT ENCLOSES THE PLUGGED IN CORDS WHILE IN SERVICE AS INTERMATIC WP120C, NON-WATERPROOF GEAR IN A HOUSING IS NOT ACCEPTABLE.
- ALL RECEPTACLES SHALL BE GFCI PROTECTED AND MOUNTED 3'-0" ABOVE FINISHED FLOOR. PROVIDE WORK BLOCKING AS REQUIRED. ALL RECEPTACLES OUTLETS SHALL BE 2 GANG DOUBLE DUPLEX. TEMPORARY LIGHTING SHALL BE CONSTRUCTED OF SINGLE AND DOUBLE 100 WATT CLEAR INCANDESCENT LAMPS, OR EQUIVALENT, AND WATERPROOF RUBBER SOCKETS, SPLICED WITH WATERPROOF CONNECTORS ON FESTOONED ROMEX-TYPE
- WIRE. ADEQUACY OF ALL TEMPORARY LIGHTING CONFIGURATIONS SHALL BE AS DETERMINED BY THE CONSTRUCTION MANAGER. PRE ASSEMBLED TEMPORARY LIGHTING IS DISALLOWED. TAPS AND SPLICES SHALL BE MADE WITH SCOTCH LOCK CONNECTORS, RUBBER TAPE, AND THEM PVC COATED. THE CONNECTORS SHALL BE FILLED WITH PENETROX. A PLASTIC SHAPE ON CAGE/GUARD SHALL PROTECT EACH SOCKET AND LAMP. NOMINAL SPACING BETWEEN LAMP CLUSTER IS 16 FEET. MOUNT LIGHTS EIGHT FEET ABOVE FINISHED FLOOR IN TYPICAL LOCATIONS AND 10 FEET ABOVE FINISHED FLOOR IN CORRIDOR. PROVIDE NIGHT LIGHTING CIRCUIT, WHICH SHALL OPERATE CONTINUOUSLY. ALL LAMPS SHALL BE 130 VOLT, ROUGH SERVICE RATED. TEMPORARY LIGHTS SHALL BE TO OSHA STANDARDS. ALTERNATE FIXTURES SHALL BE 400W CONSTRUCTION SITE STYLE
- PROVIDE HOOK UPS TO JOB TRAILER FOR ALL TRADES. USE SITE POWER AS SOURCE. OWNER PAYS FOR POWER CONSUMPTION. WIRING SHALL BE 1#12+1#12(N)+1#12(G) ROMEX STYLE. CIRCUITS SHALL BE OPERATED A MAXIMUM OF 15 AMPS OR 1800 WATTS (18 100 WATT LAMPS), SWITCHING SHALL BE DONE VIA THE SWITCH RATED 20A, 10 CIRCUIT BREAKERS. SEGREGATE THE NIGHT LIGHTS AND RECEPTACLES IN THE LOWER PART OF THE POWER PANELS AND LABEL THESE "DO NOT TURN OFF". CIRCUIT HOME RUNS CONDUCTORS SHALL INCREASE ONE WIRE SIZE EVERY 100 FEET I.E. #10 CONDUCTORS. WIRING WITHIN THE ROOM AREA SHALL BE MADE WITH #12 CONDUCTORS.
- THE DIVISION 16 CONTRACTOR SHALL PREPARE EACH PANEL SCHEDULE. A LENGTH OF GREENFIELD FLEX CONDUIT AT PINCH POINTS SHALL PROTECT ALL WIRE, SUCH AS WHERE WIRING PASSED THROUGH A DOORWAY. WIRING SHALL BE SUPPORTED FROM ANCHORS INSTALLED BY THE DIVISION 16 CONTRACTOR FOR THE
- PURPOSE OF ATTACHMENT TO PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT. 10. ALL WIRING SHALL BE INSTALLED SO AS NOT TO CAUSE TRIPPING HAZARD OR SIMILAR OBSTRUCTION. POWER PANELS SHALL BE EQUIPPED WITH 42 1P, 20A CIRCUIT BREAKERS AND ALL CIRCUIT BREAKERS NOT IN SERVICE SHALL BE
- LABELED SPARE. AT THE OWNERS OPTION PANEL AND CIRCUIT BREAKERS SHALL BE TURNED OVER TO OWNERS INVENTORY AT CONCLUSION OF THE PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT THE DIVISION 16 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF TEMPORARY LIGHTING AND POWER SYSTEMS DURING, AND AFTER INSTALLATION, UP TO THE TIME OF BENEFICIAL OCCUPANCY, AND TIME OF REMOVAL. REPAIRS SHALL BE MADE WITHIN 24 HOURS OF THE REPORTED OUTAGE, OR AS DIRECTED BY THE CONSTRUCTION MANAGER. DIVISION 16 CONTRACTOR SHALL COMMENCE WORK ON THIS PROJECT WITH A GROSS OF SPARE CONSTRUCTION BULBS AT HIS IMMEDIATE
- REMOVAL OF THE TEMPORARY POWER AND LIGHTING SHALL BE THE RESPONSIBILITY OF THE DIVISION 16 CONTRACTOR WHEN THE PROJECT IS COMPLETE, ALL EQUIPMENT, WIRING SUPPORTS, CONNECTORS, ETC. SHALL BE REMOVED FROM OWNER'S PROPERTY AFTER PROJECT IS COMPLETE. INCLUDE STATEMENT OF REMOVAL WITHIN CLOSE OUT DOCUMENTS, REQUIRED FOR FINAL PAYMENT.
- OF THE TRADES. TEMPORARY SERVICES ARE REQUIRED PER SPECIAL CONDITIONS OF THE PROJECT. 15. ALL TEMPORARY POWER WORK SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER SPECIAL EMPHASIS SHALL BE EXERCISED FOR TERRAZZO MACHINES AND ITS ELECTRICAL REQUIREMENT.

14. PROVIDE THE TEMPORARY ELECTRICAL SERVICE TO THE CONSTRUCTION TRAILERS SHALL BE AS PER USERS REQUIREMENTS

FIRE STOP NOTES:

1. ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED. 2. THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, 6P-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-635 TROWEL ABLE COMPOUND, AS

3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS SPECIFIED OR EQUAL

4. FIRE STOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS AND STATEMENT FROM MANUFACTURER THAT THEY MEET OR EXCEED THE PRODUCTS SPECIFIED

5. ALL SYSTEMS SHALL HAVE THEIR OWN SLEEVE THROUGH FIRE RATED WALLS. IE FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA,

ELECTRICAL SYMBOL LEGEND

<u>(s)</u>	SMOKE DETECTOR - CEILING MOUNTED
S	SPEAKER - CEILING MOUNTED
S	SPEAKER - WALL MOUNTED
<u>©</u>	CLOCK - WALL MOUNTED
V	TELEPHONE VOIP CONNCTION
FACP	FIRE ALARM CONTROL PANEL
R	FA RELAY

SIMILAR SYMBOLS USED ON DEMO PLANS. ALL ITEMS SHOWN ON DEMO PLAN TO BE REMOVED ENTIRELY UNLESS OTHERWISE NOTED.

LINE DESIGNATIONS

EXISTING TO REMAIN DEVICES DEVICES TO BE REMOVED. PULL ______ BACK ALL ASSOCIATED CONDUIT AND WIRING AND REMOVE UNLESS OTHERWISE NOTED ON THE

NEW DEVICES

SHEET NOTES

KEY NOTES

WINDOW AND CONNECT TO FIRE ALARM PANEL. RELAY OF FIRE ALARM SYSTEM TO CREATE SMOKE/FIRE E2 CONNECT PROPOSED FA DEVICE TO EXISTING FA LOOP

IN THIS AREA. FA DEVICE SHALL MATCH EXISTING

SYSTEM.

A. FIRE ALARM CONTROL PANEL IS AN EDWARDS EST IRC-3 LOCATED IN BOILER RM OFC E13.

PROVIDE FIRE ALARM FUSIBLE RELAY IN PASS-THROUGH SHALL RELEASE PASSITHROUGH WINDOW UPON INITIATION

> ARCHITECTS LANDSCAPE ARCHITECTS **ENGINEERS** BRANCH PROJECT CONTACT: 244 EAST MAIN STREET 187 WOLF ROAD, STE. 205 PATCHOGUE

DRWG. BY:

CHK. BY:

EEA

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TIME. ALL EXISTING CONDITIONS SHOWN ARE REPRESENTED AS SUGGESTIVE INFORMATION AS THEY MAY NOT HAVE BEEN

BUILT AND DETAILED PER THE ORIGINAL DOCUMENTS OR PER

THE OWNER'S INFORMATION.

NOT REPRESENT THE CONDITIONS AS CONSTRUCTED AT THE

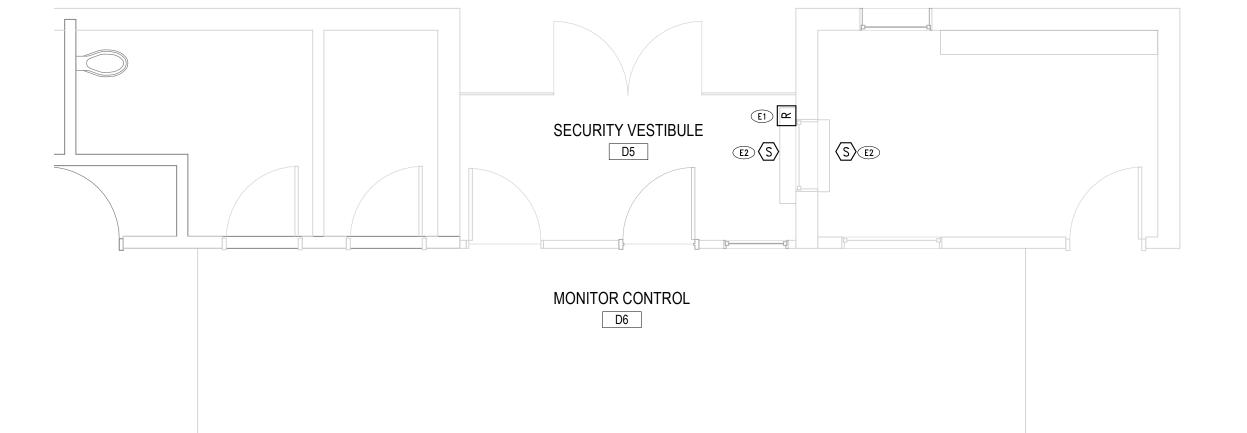
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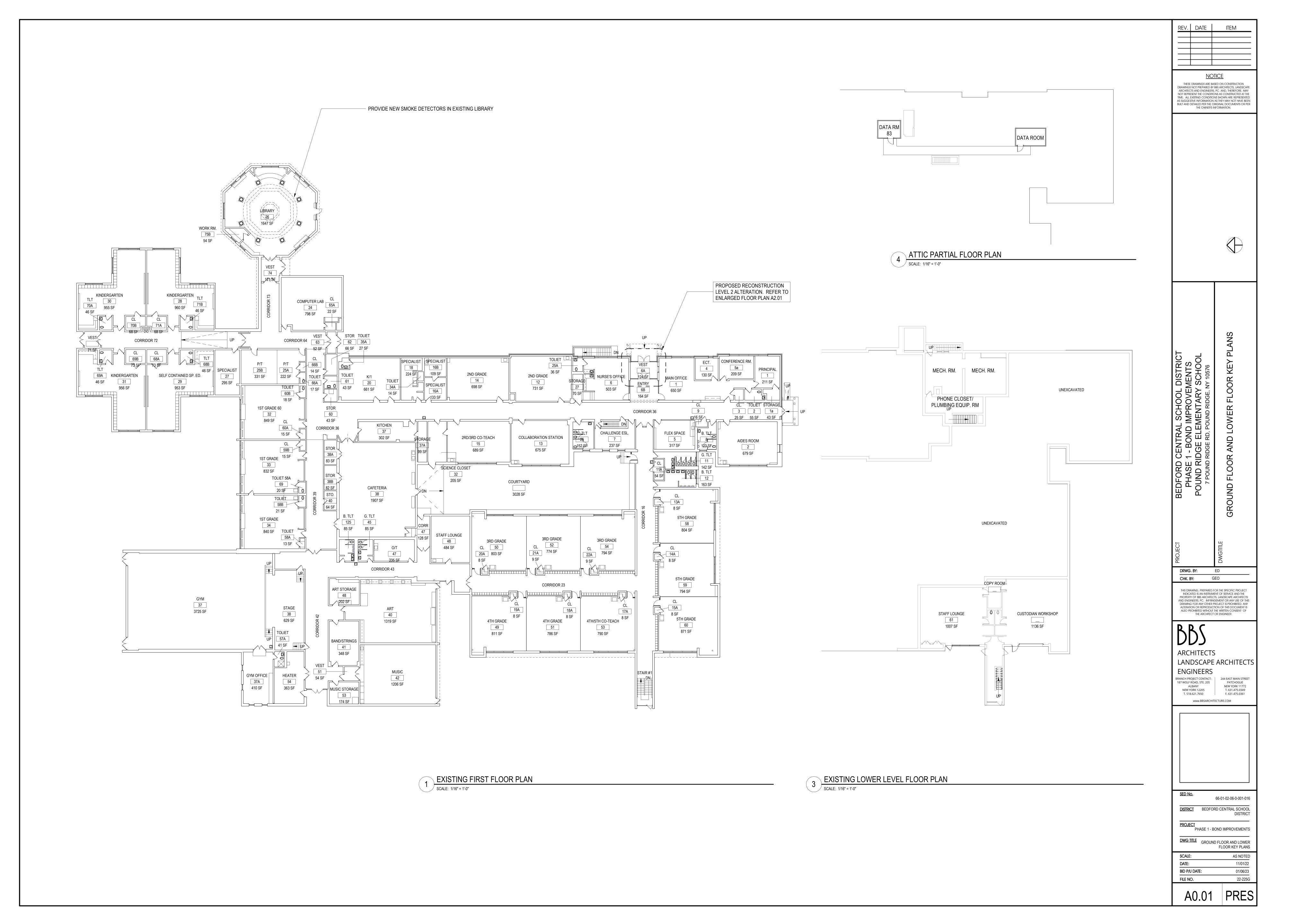
<u>PROJECT</u> WEST PATENT ELEMENTARY <u>DWG TITLE</u> GENERAL NOTE, SYMBOLS ABBREVIATIONS AND SECURITY VESTIBULE PLAN SCALE:

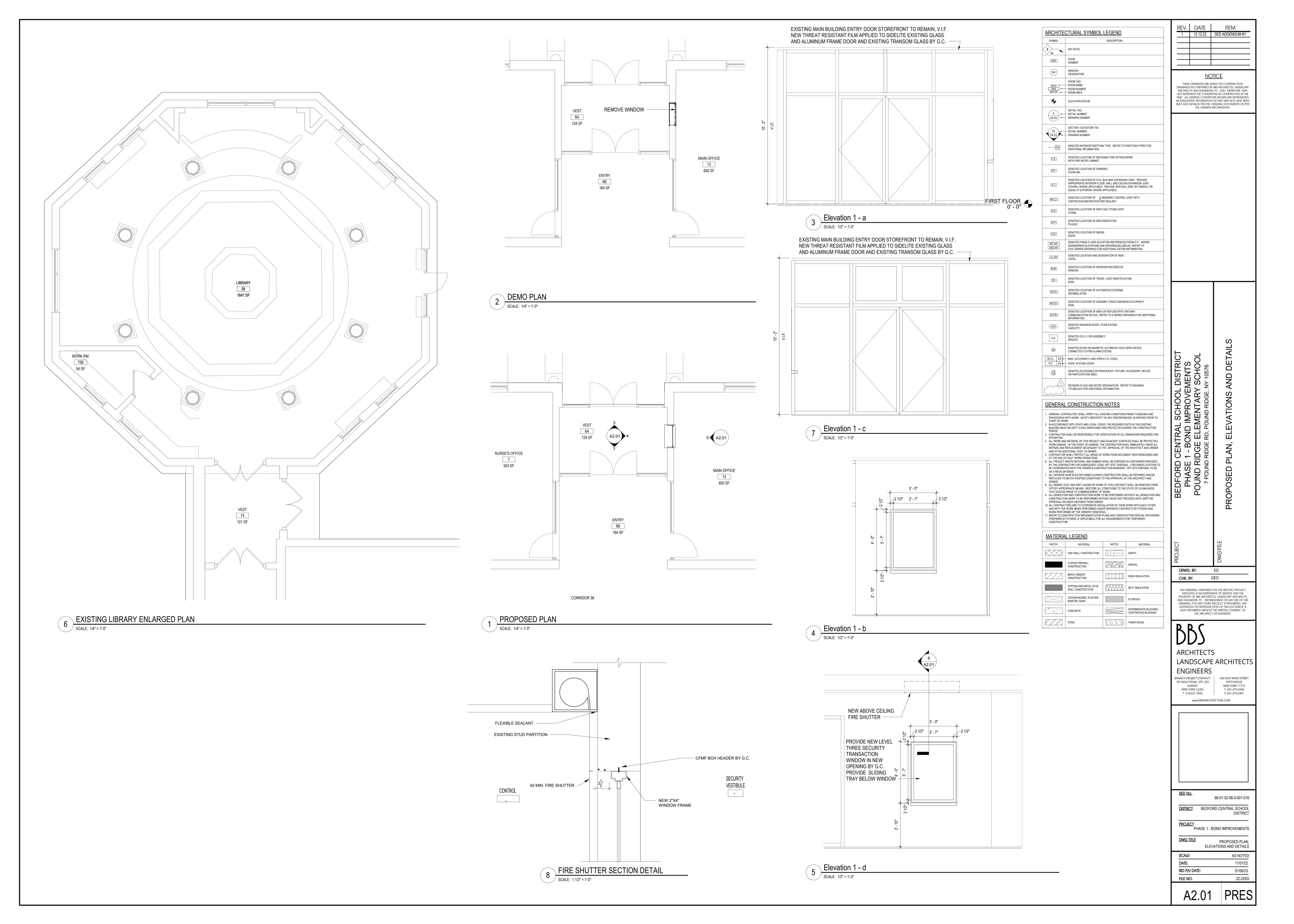
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MAIN BUILDING ENTRY ENLARGED PLAN





- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE NEC, APPLICABLE LOCAL CODES, STATE CODES, SCHOOL WORKING RULES AND SCHEDULE DIRECTIVES. AND THE ENGINEER'S SPECIFICATIONS.
- THE VOLTAGE CHARACTERISTIC OF EXISTING BUILDING IS 208Y/120V, 3-PASE, 4-WIRE. THE VOLTAGE CHARACTERISTIC OF THE PROPOSED ADDITION SHALL BE 480/277V, 3-PHASE 4-WIRE WITH 208/120V DERIVED FROM STEP DOWN TRANSFORMERS., ALL EQUIPMENT SHALL BE COMPATIBLE WITH THESE CHARACTERISTICS.
- 3. THE DRAWINGS SHOW SCHEMATICALLY, THE APPROXIMATE LOCATION OF ALL EQUIPMENT, CONDUITS, DEVICES, ETC. THE EXACT LOCATION OF WHICH SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/OWNER WHO RESERVES THE RIGHT TO MAKE PRIOR TO
- VERIFY ALL INDICATED OR APPROXIMATED DIMENSIONS DRAWN OR DENOTED. DIVISION 16 CONTRACTOR SHALL EXAMINE THE SITE TO VERIFY WORK TO BE PERFORMED AS SHOWN ON DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING HIS BID. ANY DISCREPANCY BETWEEN DRAWINGS/SPECIFICATIONS AND ACTUAL FIELD
- CONDITIONS SHALL BE BROUGHT TO ARCHITECT/ENGINEERS ATTENTION BEFORE BID SUBMITTAL. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL LABOR SERVICE MATERIALS, EQUIPMENT, AND RELATED ITEMS TO COMPLETE THE WORK OF THIS DIVISION, AS REQUIRED BY THE NATIONAL ELECTRIC CODE, AND ALL STATE AND LOCAL AUTHORITIES HAVING

INSTALLATION, ANY REASONABLE CHANGES IN LOCATION INDICATED WITHOUT EXTRA COST TO THE OWNER. CONTRACTOR SHALL

- 6. DIVISION 16 CONTRACTOR SHALL PROVIDE ALL ELECTRICAL HARDWARE SHOWN ON THESE DRAWINGS AND RELATED DETAIL MATERIALS NOT SPECIFICALLY SHOWN OR SPECIFIED.
- DIVISION 16 CONTRACTOR SHALL PAY ANY FEES APPLICABLE TO ELECTRICAL WORK, SUCH AS, BUT NOT LIMITED TO, THE POWER COMPANY, TELEPHONE COMPANY, CATV, CERTIFIED ELECTRICAL INSPECTORS, ALARM AND FIRE PROTECTION COMPANIES. THE DIVISION 16 CONTRACTOR SHALL REFER TO ALL OTHER DRAWINGS IN BID PACKAGE AND PERFORM THE WORK (INCLUDE IN HIS
- BID) INDICATED AS ELECTRICAL CONTRACTOR (E.C.) WORK. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND DIRECTIVES OF THE SCHOOL DISTRICT BUILDINGS AND GROUNDS DEPARTMENT.
- ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR WHO SHALL OBTAIN AN INSPECTION CERTIFICATE AND PAY ASSOCIATED FEE. SUBMIT A PHOTOCOPY OF THIS CERTIFICATE TO THE ENGINEER WITH FINAL PAYMENT APPLICATION. DIVISION 16 CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND THEIR INSTALLATION TO BE FREE OF DEFECTS FOR A PERIOD AS
- DEFINED IN SECTION 1700 OF THE PROJECT MANUAL. 12. A COMPLETE SYSTEM OF WIRING, WITH ALL FEEDERS, MAINS, AND BRANCHES AS SHOWN ON THE DRAWINGS, SHALL BE FURNISHED AND INSTALLED FROM THE MAIN DISTRIBUTION BOARD TO THE PANELS OUTLETS, MOTORS, AND APPURTENANCES. PROVIDE IDENTIFICATION FOR ALL PANEL AND MOTOR FEEDER CABLES IN PULL BOXES AND AT TERMINATIONS. ANY CONDUCTOR
- VOLTAGES HIGHER THAN 240 VOLTS SHALL BE MARKED ON DEVICES AND JUNCTION BOXES. FURNISH AND INSTALL ALL WIRING OF ANY VOLTAGE OR PURPOSE AS SHOWN ON THE DRAWINGS. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARING COMMON NEUTRALS AMONG BUNDLED CIRCUITS IS
- SPECIFICALLY DISALLOWED UNLESS OTHERWISE NOTED. PULL/JUNCTION BOXES SHALL BE PROVIDED WHERE INDICATED OR AS OTHERWISE REQUIRED TO FACILITATE THE PROPER
- INSTALLATION OF WIRES AND CABLES. CONDUITS MAY BE INCREASED IN SIZE FOR CONSTRUCTION CONVENIENCE. FURNISH AND INSTALL ALL DISCONNECT DEVICES AND SAFETY SWITCHES AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED TO CONFORM WITH REQUIREMENTS
- 18. FURNISH AND INSTALL ALL INDICATED LIGHTING FIXTURES AND MOUNTING HARDWARE AS REQUIRED FOR A COMPLETE INSTALLATION.
- 19. DIVISION 16 CONTRACTOR SHALL PROVIDE TO SCHOOL 5 PERCENT SPARE LAMPS (MINIMUM QUANTITY 1) OF EACH TYPE SPECIFIED WITH NEW FIXTURES.
- PROVIDE ALL WIRING, PANEL BOARDS, SWITCHES, FUSES, EQUIPMENT, AND ALL INCIDENTAL MATERIALS REQUIRED TO SUPPLY TEMPORARY AND PERMANENT ELECTRICAL NEEDS FOR THE WORK INVOLVED, ALL IN ACCORDANCE WITH OSHA, LOCAL, STATE AND UNDERWRITERS REQUIREMENTS.
- ALL WIRING TO BE 1#12+1#12(N)+1#12(G)-3/4"C., OR STEEL JACKETED MC CABLE (WHERE CODE PERMITTED), UNLESS OTHERWISE SPECIFIED ON DRAWINGS. RUN BRANCH CIRCUITS IN DROPPED CEILINGS, VOIDS, & CHASES. CONDUITS MAY BE SURFACE MOUNTED IN MECHANICAL SPACES UNLESS OTHERWISE NOTED. CONDUITS IN PUBLIC AREAS SHALL BE CONCEALED IN HUNG CEILINGS, EMBEDDED IN SLAB OR MASONRY WALLS, EXCEPT WHERE SURFACE MOUNTED RACEWAY IS SPECIFIED. ALUMINUM JACKETED MC CABLE IS NOT ACCEPTABLE.
- ALL CONNECTIONS AND/OR SPLICES SHALL BE MADE ONLY IN ACCESSIBLE JUNCTION BOXES. ALL COUPLINGS AND CONNECTORS FOR USE WITH EMT SHALL BE COMPRESSION TYPE. SET SCREW TYPE OR INDENT TYPE FITTINGS
- WILL NOT BE ACCEPTED 24. ALL CONNECTIONS TO CONDUIT RUN UNDERGROUND SHALL BE MADE WATERTIGHT. ALL METALLIC CONDUIT INSTALLED IN EARTH FILL, AS WELL AS UNDERGROUND, SHALL BE PAINTED WITH (2) COATS OF ASPHALTUM PAINT OR EQUAL. WIRING INSTALLED IN CEILINGS SHALL BE HUNG INDEPENDENT OF CEILING SYSTEM AND SECURELY TIED TO BUILDING STEEL.
- ALL LOW VOLTAGE (FIRE ALARM, PA INTERCOM, PHONE, DATA, ETC.) WIRING INSTALLED IN OPEN AREAS SHALL BE IN METALLIC RACEWAY IN MECHANICAL AREAS, GYMNASIUMS, ART ROOMS, STOREROOMS, ETC., AND IN SURFACE MOUNTED RACEWAY IN PUBLIC AREAS. LOW VOLTAGE WIRE INSTALLED IN DROPPED CEILINGS SHALL BE BUNDLED TOGETHER AND SUPPORTED BY BUILDING STEEL. LOW VOLTAGE WIRE SHALL NOT BE SUPPORTED WITH BRANCH CIRCUITS OR FEEDER CIRCUITS AND SHALL NOT BE SUPPORTED BY CONDUIT, PIPES, ETC.. LOW VOLTAGE WIRING NOT INSTALLED IN CONDUITS, SHALL BE PLENUM RATED.
- CONDUITS SHALL BE SECURED IN PLACE AND PROTECTED WHERE NECESSARY TO PREVENT DAMAGE DURING CONSTRUCTION. FURNISH AND INSTALL ALL HARDWARE TO PROPERLY SUPPORT ALL CONDUITS NOT INSTALLED IN CONCRETE SLABS OR
- UNDERGROUND. ALL CONDUITS OR MC CABLE SHALL BE EQUIPPED WITH AN INSULATING/CHAFE GUARD GROMMET AT WIRE EXIT/ENTRANCE. MC
- CABLE SHALL USE MC STYLE BUSHINGS. BX OR OTHER BUSHINGS ARE SPECIFICALLY DISALLOWED. WHERE AN EXISTING CONDUIT OR CABLE IS REQUIRED TO BE REMOVED BUT SERVES AND EXISTING PIECE OF EQUIPMENT WHICH IS TO REMAIN OPERABLE, THE DIVISION 16 CONTRACTOR SHALL REROUTE SAID CONDUIT OR CABLE OR PROVIDE A NEW SOURCE OF
- POWER (APPROVED BY ENGINEERING) TO THIS EQUIPMENT AS A PART OF THIS CONTRACT. 31. ALL PANÈLS. SWITCHES. DISCONNECT STARTERS, OR OTHER ELECTRIC SYSTEM CONTROLS SHALL BE STENCILED WITH THEIR APPROPRIATE DESIGNATION/FUNCTION. ALL CIRCUIT BREAKERS SHALL BE IDENTIFIED BY A PANEL SCHEDULE OR STENCIL ADJACENT
- TO THE CIRCUIT BREAKER. 32. ALL CIRCUIT BREAKERS POSITIONS IN ALL PANELS ARE SHOWN FOR ESTIMATE PURPOSES ONLY. EC IS RESPONSIBLE FOR LOAD
- 33. ALL DEVICES SHALL BE FASTENED IN PLACE SECURELY. GRID MOUNTING LIGHTING FIXTURES SHALL BE SECURED TO GRID WITH
- CLIPS LISTED FOR THE PURPOSE OR SUSPENDED FROM STRUCTURE PER NEC. WORK WHICH MUST BE DONE IN OCCUPIED AREAS SHALL BE DONE AT SUCH TIMES AS INDICATED IN THE PHASING OF CONSTRUCTION AND AS APPROVED BY THE SCHOOL.
- WHERE THE DIVISION 16 CONTRACTOR IS INSTRUCTED TO PROVIDE, INSTALL AND WIRE CIRCUIT BREAKER(S) TO AN EXISTING PANEL AND THAT PANEL DOES NOT HAVE THE ROOM TO INSTALL REQUIRED CIRCUIT BREAKERS. THE DIVISION 16 CONTRACTOR SHALL REMOVE (3) ADJACENT 1P CIRCUIT BREAKERS AND PROVIDE A 3P, 60A BREAKER IN THEIR PLACE FOR SUB FEED TO A SURFACE MOUNTED 100A.3~.4W.24 POLE SUB PANEL AND ESTABLISH OVERFLOW CIRCUITS IN NEW SUB PANEL. EACH WITH REQUIRED CIRCUIT BREAKERS, PROVIDE (3) 1P, AMPERAGE AS BEFORE CIRCUIT BREAKERS FOR DISCONNECTED CIRCUITS IN MAIN PANEL AND
- RECONNECT THEM IN SUB PANEL. SUB PANEL FEED TO BE 3#6+1#6(N)+1#10(G)-1"C. 36. SELECTED RECEPTACLES AS SHOWN ON DRAWINGS MAY BE GFI PROTECTED BY CONNECTING TO GFCI RECEPTACLE FIRST IN CIRCUIT. ALL RECEPTACLES THAT ARE PROTECTED FROM AN UPSTREAM GFCI UNIT SHALL BE VISABLY LABELED AS SUCH. GFCI RECEPTACLE SHALL BE SPEC GRADE AND RATED 20A, WITH OPERATING NOTIFICATION INDICATING LIGHT.
- ALL DEVICES ADDRESSED BY ADA REGULATIONS SHALL BE INSTALLED AT ADA COMPLIANT HEIGHT AND LOCATIONS. ALL NEW LIGHTING OR EXISTING LIGHTING HAVING SWITCHING REARRANGEMENT SHALL BE EQUIPPED WITH CODE COMPLIANT ENERGY CONSERVATION CONTROLS. SUCH CONTROL SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO
- 39. REMOVAL OF ELECTRICAL ITEMS INCLUDES THEIR DISPOSAL. THE EXCEPTION WILL BE TO TURN OVER TO THE OWNER ITEMS, IF ANY, THEY SPECIFY TO BE RETAINED IN THEIR INVENTORY. PCB OR ASBESTOS BEARING MATERIAL SHALL BE DISPOSED OF IN
- ACCORDANCE WITH LAWS AND REGULATIONS. 40. EC SHALL PROVIDE & WIRE WEATHERPROOF GFCI RECEPTACLES ON ALL APPLICABLE ROOFTOP UNITS AS PART OF HIS BID. SEE
- MECHANICAL EQUIPMENT SCHEDULES FOR UNITS WITH SERVICE RECEPTACLES FACTORY INSTALLED. UNLESS OTHERWISE NOTED, STARTERS AND DISCONNECTS FOR MECHANICAL EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR.. COORDINATE WITH THE MECHANICAL CONTRACTOR FOR ALL POWERED MECHANICAL EQUIPMENT. THE DIVISION 16 CONTRACTOR IS RESPONSIBLE TO INSTALL ALL MOTOR STARTERS AND ASSOCIATED POWER WIRING FROM SOURCE TO UNIT VIA STARTERS AND DISCONNECTS. THE LOCATIONS OF MOTOR STARTERS SHALL BE DETERMINED BY THE MECHANICAL CONTRACTOR IN THE FIELD AND SUBMITTED TO THE ENGINEER FOR APPROVAL UNLESS IT IS SPECIFIED ON THE DRAWINGS. THE DIVISION 16 CONTRACTOR SHALL REFER TO THE MECHANICAL DRAWINGS, EQUIPMENT SCHEDULES & NOTES AND INCLUDE IN HIS BID PRICE ALL ELECTRICAL WORK ASSOCIATED WITH THEIR INSTALLATION, .AND THE REMOVAL OF ANY STARTERS/DISCONNECTS NO

LONGER REQUIRED.

DEMOLITION NOTES (NOT ALL APPLY):

- THE ITEMS SPECIFICALLY SHOWN ON DEMOLITION DRAWING/S ARE TO BE ADDRESSED BY THE ELECTRICAL CONTRACTOR. THE
- ITEMS ARE TO BE TREATED AS NOTED AND RANGE FROM DIRECT REMOVAL AND DISPOSAL, OR REMOVAL, STORAGE, AND REINSTALLATION/RELOCATION, OR TEMPORARY REMOVE/STORAGE, AND REINSTALLATION IN SAME LOCATION. MANY OTHER ELECTRIC ITEMS EXIST THAT ARE NOT SHOWN INCLUDE, BUT ARE NOT LIMITED TO, SWITCHES, RECEPTACLE, FLOOR OUTLETS, LOW VOLTAGE JACKS, LOW VOLTAGE DEVICES AND WIRING, TELEPHONE PUNCH DOWN BLOCKS, AND OUT OF SERVICE ITEMS. ALL SUCH ITEMS SHALL BE PERMANENTLY DE-ENERGIZED, DISCONNECTED, AND OTHERWISE MADE SAFE FOR DEMOLITION BY NON-ELECTRIC DEMOLITION WORKERS. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL ELECTRIC DEVICES, OF ANY VOLTAGE OR FUNCTION, THAT ARE TO BE DEMOLISHED ARE SAFE AND ADVISE THE DEMOLITION
- CONTRACTOR WHEN THIS IS SO. AFTER THE ELECTRICAL CONTRACTOR HAS DISCONNECTED ELECTRIC SUPPLIES TO ITEMS TO BE DEMOLISHED, HE SHALL ADVISE THE GENERAL CONTRACTOR OF ANY ELECTRIC ITEMS TO BE RETAINED FOR FUTURE USE AND THEREFOR NOT TO BE DEMOLISHED. THE GENERAL CONTRACTOR SHALL THEN PERFORM ALL WORK ZONE DEMOLITION. THIS MATTER APPLIES TO ALL ELECTRIC ITEMS. OF ANY VOLTAGE OR PURPOSE THE SPECIAL/SPECIFIC ITEMS SHOWN ON THE DRAWING FOR ELECTRICAL CONTRACTOR TO ACT ON WERE FOUND BY SURVEY.
- NUMEROUS LOCATIONS WERE BLOCKED BY FURNITURE, ETC. AND ADDITIONAL EQUAL TYPE ITEMS MAY BE PRESENT. THE ELECTRICAL CONTRACTOR SHALL ALLOW FOR THIS IN HIS BID PRICE AND ATTEND TO THOSE EQUAL OR SIMILAR DEVICES AS MAY
- REMOVAL ITEMS THAT ARE LISTED AS TO BE TURNED OVER TO OWNER'S INVENTORY SHALL BE DISCUSSED WITH THE DISTRICT BUILDINGS AND GROUNDS MANAGER. THOSE ITEMS THAT THE OWNER DECLINES SHALL THEN BE DISPOSED OF BY THE CONTRACTOR IN THE MANOR OF OTHER PERMANENT REMOVALS. ANY PCB BEARING FLUORESCENT FIXTURES SHALL BE DISPOSED OF PER REGULATIONS. RETAIN EXISTING RECEPTACLES IN WALLS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. RETAIN LIGHT SWITCH
- LOCATIONS THAT WILL NOT BE IN CONFLICT WITH NEW CONSTRUCTION. INSTALL BLANKING PLATE COVERS OVER THE UNUSED PORTION OF GANG BOXES HAVING MORE GANG POSITIONS THAN NEEDED FOR NEW SWITCHES. LIGHT FIXTURES ARE TO BE REMOVED AS GENERAL, NON ELECTRIC, CONTRACTOR DEMOLITION, DIVISION 16 CONTRACTOR RESPONSIBLE TO SAFE OFF LIGHTUING CIRCUITS FOR REMOVAL BY OTHERS. NO SPECIFIC QUANTITIES OR LOCATIONS ARE SHOWN. RETURN WHATEVER QUANTITY, IF ANY, OF THESE TO OWNER'S INVENTORY IF HE SO SPECIFIES OR THEY ARE
- THE ELECTRICAL CONTRACTOR SHALL COVER ALL BACK BOXES IN THE WALL THAT BECOME EXPOSED DUE TO DEVICE REMOVALS. THIS INSTRUCTION ALSO APPLIES TO EXPOSED ELECTRICAL BACK BOXES AS MAY EXIST AT THE SITE PRIOR TO THIS PROJECT. THE COVER SHALL BE BRUSHED ALUMINUM WITH CHAMFERED EDGES AND COVER THE HOLE COMPLETELY WITH AT LEAST 3/4" EXTRA MARGIN ON ALL SIDES. MOUNT THE COVER WITH SCREWS TO MATCH THE ORIGINAL PATTERN.

OTHERWISE TO BE DISPOSED OF. ELECTRICAL CONTRACTOR SHALL EXAMINE FIXTURES FOR PRESENCE OF PCB'S AND SPECIAL

- IT IS EXPECTED THAT STRUCTURAL DEMOLITION BY THE GENERAL CONTRACTOR WILL CAUSE VARIOUS ELECTRIC SUPPLIES, OF VARIOUS VOLTAGES AND PURPOSES, TO BE CUT AND RENDER SOME DEVICES TEMPORARILY INACTIVE. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO RECONSTRUCT AND RECONNECT SUCH ELECTRIC SOURCES WHEN THE NEW STRUCTURE IS BUILT. NOTE THAT MOST REINSTALLED ITEMS WILL BE IN DIFFERENT LOCATIONS FROM THE REMOVAL LOCATION. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL REQUIRED CIRCUIT EXTENSIONS OR MODIFICATIONS TO PROVIDE SERVICE TO A REINSTALLED ITEM AS RELOCATED. PROVIDE ALL REQUIRED CIRCUIT EXTENSIONS AS REQUIRED TO RESTORE SERVICE TO DEVICES. NOTE THAT THIS REQUIREMENT ALSO APPLIES TO THE ROOMS AND ELECTRICAL ITEMS WITHIN THAT ARE NOMINALLY NOT IN CONTRACT. SUCH RESTORATION OF SERVICE, IF NEEDED, IS SPECIFICALLY IN THE ELECTRICAL CONTRACTOR'S
- 10. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO PROTECT ALL ELECTRICAL DEVICES, FROM DAMAGES DURING CONSTRUCTION, WHICH ARE EITHER INDICATED TO REMAIN, AND/OR TO BE REMOVED AND REINSTALLED THROUGHOUT ALL CONSTRUCTION AREAS. DEVICES SHALL INCLUDE BUT WILL NOT BE LIMITED TO: SMOKE DETECTORS, EMERGENCY LIGHTS, EXIT SIGNS, OCCUPANCY SENSORS, SPEAKERS, LIGHT FIXTURES, SWITCHES, RECEPTACLE, ETC. IN THE EVENT OF DAMAGES INCURRED DUE TO CONSTRUCTION ACTIVITIES, THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE ANY DAMAGED DEVICES AT NO ADDITIONAL COST TO OWNER.
- ALL SYSTEM ASSOCIATED WITH THE DEVICES SCHEDULED TO BE REMOVED, STORED AND PROTECTED SHALL BE TESTED BY THE MANUFACTURER'S CERTIFIED TESTING VENDOR PRIOR TO ANY DEMOLITION ACTIVITY. ANY DEVICE WHICH FAILS THE TEST SHALL BE REPLACED WITH A FORM, FIT AND FUNCTION COMPONENT PER UNIT PRICES, AND SUCH DEVICES ARE NOT INCLUDED IN THIS RESPONSIBILITY STATEMENT, BUT ALSO SUCH INSTALLATION SHALL BE IN THE ELECTRICAL CONTRACTOR'S BASE BID. THE ELECTRICAL CONTRACTOR SHALL RE-TEST ALL SUCH SYSTEM COMPONENTS BY A MANUFACTURER CERTIFIED TESTING VENDOR OF SUCH SYSTEM OF ALL PREVIOUSLY TESTED SYSTEM COMPONENTS AFTER ALL WORK BY ALL TRADES HAS BEEN COMPLETED, AND ALL SYSTEM COMPONENTS HAVE BEEN INSTALLED. ANY COMPONENT WHICH FAILS SHALL BE REPLACED, AND PROGRAMMED IF NECESSARY BY THE ELECTRICAL CONTRACTOR. ALL SUCH REPLACEMENT AND PROGRAMMING COSTS SHALL BE ELECTRICAL CONTRACTOR'S RESPONSIBILITY. ALL COSTS ASSOCIATED WITH THE TESTING OF AFFECTED SYSTEM SUCH AS BUT NOT LIMITED TO FIRE ALARM, PUBLIC ADDRESS, INTERCOM, TELEPHONE, AND SECURITY SYSTEMS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. ALL EQUIPMENT, DEVICES, WIRING AND THEIR ASSOCIATED MATERIAL SPECIFIED TO REMAIN, WHICH IS NOT STORED AND PROTECTED, SHALL BE PROTECTED DURING THE DEMOLITION ACTIVITIES, AND ALL TRADES SHALL BE INFORMED OF SUCH COMPONENTS. ANY OF SUCH COMPONENTS WHICH BECOME DAMAGED DURING DEMOLITION SHALL BE REPLACED FORM, FIT AND FUNCTION BY THE ELECTRICAL CONTRACTOR AT HIS EXPENSE.

ABBREVIATIONS

- EXISTING TO REMAIN
- **PSEGLI** PSE&G LONG ISLAND (UTILITY CO.)
- SM, S.M. SURFACE MOUNTED
- U.O.N. UNLESS OTHERWISE NOTED
- EC, E.C. ELECTRICAL CONTRACTOR
- GC, G.C. GENERAL CONTRACTOR
- MC, M.C. MECHANICAL CONTRACTOR
- PC, P.C. PLUMBING CONTRACTOR
- REQUIRED
- ON CENTER
- CIRCUIT
- AWAY FROM FLOOR CIRCUIT BREAKER
- RECEPTACLE
- ABOVE COUNTERTOP

TEMPORARY POWER CONSTRUCTION NOTES: (NOT ALL APPLY)

- THE DIVISION 16 CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHT IN THE NEW AREAS 'D', AND 'E' AND THE RECONSTRUCTED AREAS OF THE EXISTING BUILDING.
- ALL TEMPORARY POWER PANELS AND FUSED SWITCHES OUTSIDE SHALL BE NEMA 3R CONSTRUCTION AND LOCKABLE. ALL OUTSIDE RECEPTACLES SHALL BE WATERPROOF AND HAVE A COVER THAT ENCLOSES THE PLUGGED IN CORDS WHILE IN SERVICE AS INTERMATIC WP120C. NON-WATERPROOF GEAR IN A HOUSING IS NOT ACCEPTABLE.
- ALL RECEPTACLES SHALL BE GFCI PROTECTED AND MOUNTED 3'-0" ABOVE FINISHED FLOOR. PROVIDE WORK BLOCKING AS REQUIRED. ALL RECEPTACLES OUTLETS SHALL BE 2 GANG DOUBLE DUPLEX.
- TEMPORARY LIGHTING SHALL BE CONSTRUCTED OF SINGLE AND DOUBLE 100 WATT CLEAR INCANDESCENT LAMPS, OR EQUIVALENT, AND WATERPROOF RUBBER SOCKETS, SPLICED WITH WATERPROOF CONNECTORS ON FESTOONED ROMEX-TYPE WIRE. ADEQUACY OF ALL TEMPORARY LIGHTING CONFIGURATIONS SHALL BE AS DETERMINED BY THE CONSTRUCTION MANAGER. PRE ASSEMBLED TEMPORARY LIGHTING IS DISALLOWED. TAPS AND SPLICES SHALL BE MADE WITH SCOTCH LOCK CONNECTORS, RUBBER TAPE, AND THEM PVC COATED, THE CONNECTORS SHALL BE FILLED WITH PENETROX, A PLASTIC SHAPE ON CAGE/GUARD SHALL PROTECT EACH SOCKET AND LAMP. NOMINAL SPACING BETWEEN LAMP CLUSTER IS 16 FEET. MOUNT LIGHTS EIGHT FEET ABOVE FINISHED FLOOR IN TYPICAL LOCATIONS AND 10 FEET ABOVE FINISHED FLOOR IN CORRIDOR. PROVIDE NIGHT LIGHTING CIRCUIT, WHICH SHALL OPERATE CONTINUOUSLY. ALL LAMPS SHALL BE 130 VOLT, ROUGH SERVICE RATED. TEMPORARY LIGHTS SHALL BE TO OSHA STANDARDS. ALTERNATE FIXTURES SHALL BE 400W CONSTRUCTION SITE STYLE
- PROVIDE HOOK UPS TO JOB TRAILER FOR ALL TRADES. USE SITE POWER AS SOURCE. OWNER PAYS FOR POWER CONSUMPTION. WIRING SHALL BE 1#12+1#12(N)+1#12(G) ROMEX STYLE. CIRCUITS SHALL BE OPERATED A MAXIMUM OF 15 AMPS OR 1800 WATTS (18 100 WATT LAMPS), SWITCHING SHALL BE DONE VIA THE SWITCH RATED 20A, 10 CIRCUIT BREAKERS. SEGREGATE THE NIGHT
- LIGHTS AND RECEPTACLES IN THE LOWER PART OF THE POWER PANELS AND LABEL THESE "<u>DO NOT</u> TURN OFF". CIRCUIT HOME RUNS CONDUCTORS SHALL INCREASE ONE WIRE SIZE EVERY 100 FEET I.E. #10 CONDUCTORS. VIRING WITHIN THE ROOM AREA SHALL BE MADE WITH #12 CONDUCTORS.
- THE DIVISION 16 CONTRACTOR SHALL PREPARE EACH PANEL SCHEDULE. A LENGTH OF GREENFIELD FLEX CONDUIT AT PINCH POINTS SHALL PROTECT ALL WIRE, SUCH AS WHERE WIRING PASSED THROUGH A DOORWAY. WIRING SHALL BE SUPPORTED FROM ANCHORS INSTALLED BY THE DIVISION 16 CONTRACTOR FOR THE PURPOSE OF ATTACHMENT TO PROJECT, ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT.
- ALL WIRING SHALL BE INSTALLED SO AS NOT TO CAUSE TRIPPING HAZARD OR SIMILAR OBSTRUCTION. POWER PANELS SHALL BE EQUIPPED WITH 42 1P, 20A CIRCUIT BREAKERS AND ALL CIRCUIT BREAKERS NOT IN SERVICE SHALL BE LABELED SPARE. AT THE OWNERS OPTION PANEL AND CIRCUIT BREAKERS SHALL BE TURNED OVER TO OWNERS INVENTORY AT CONCLUSION OF THE PROJECT. ALL ELECTRICAL HARDWARE SHALL BE NEW FOR THIS PROJECT. THE DIVISION 16 CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE OF TEMPORARY LIGHTING AND POWER SYSTEMS
- DURING, AND AFTER INSTALLATION, UP TO THE TIME OF BENEFICIAL OCCUPANCY, AND TIME OF REMOVAL. REPAIRS SHALL BE MADE WITHIN 24 HOURS OF THE REPORTED OUTAGE. OR AS DIRECTED BY THE CONSTRUCTION MANAGER. DIVISION 16 CONTRACTOR SHALL COMMENCE WORK ON THIS PROJECT WITH A GROSS OF SPARE CONSTRUCTION BULBS AT HIS IMMEDIATE REMOVAL OF THE TEMPORARY POWER AND LIGHTING SHALL BE THE RESPONSIBILITY OF THE DIVISION 16 CONTRACTOR WHEN THE PROJECT IS COMPLETE. ALL EQUIPMENT, WIRING SUPPORTS, CONNECTORS, ETC. SHALL BE REMOVED FROM OWNER'S
- FINAL PAYMENT PROVIDE THE TEMPORARY ELECTRICAL SERVICE TO THE CONSTRUCTION TRAILERS SHALL BE AS PER USERS REQUIREMENTS OF THE TRADES. TEMPORARY SERVICES ARE REQUIRED PER SPECIAL CONDITIONS OF THE PROJECT.

PROPERTY AFTER PROJECT IS COMPLETE. INCLUDE STATEMENT OF REMOVAL WITHIN CLOSE OUT DOCUMENTS, REQUIRED FOR

ALL TEMPORARY POWER WORK SHALL BE COORDINATED WITH THE CONSTRUCTION MANAGER SPECIAL EMPHASIS SHALL BE EXERCISED FOR TERRAZZO MACHINES AND ITS ELECTRICAL REQUIREMENT.

FIRE STOP NOTES:

- 1. ALL CONDUIT AND CABLE PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS OR OTHER STRUCTURES SHALL BE FIRE STOPPED. 2. THE FIRE STOP MATERIALS SHALL BE HILTI TYPE FS-657 FIRE BLOCK, FS-ONE SEALANT, CP-672 JOINT SPRAY, CP-601S ELASTOMERIC SEALANT, 6P-606 FLEXIBLE SEALANT, CP-643 OR CP-642 COLLAR, CP-618 PUTTY STICK, OR FS-635 TROWEL ABLE COMPOUND, AS
- 3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF PRODUCTS SPECIFIED OR EQUAL.
- 4. FIRE STOP MATERIALS OTHER THAN HILTI SHALL INCLUDE FULL TECHNICAL DATA WITH SHOP DRAWINGS TO DEMONSTRATE EQUALITY WITH THE SPECIFIED FIRE STOPS AND STATEMENT FROM MANUFACTURER THAT THEY MEET OR EXCEED THE PRODUCTS SPECIFIED
- ALL SYSTEMS SHALL HAVE THEIR OWN SLEEVE THROUGH FIRE RATED WALLS. IE FIRE ALARM, PUBLIC ADDRESS, TELEPHONE, DATA, POWER AND LIGHTING.

ELECTRICAL SYMBOL LEGEND								
<u>(S)</u>	SMOKE DETECTOR - CEILING MOUNTED							
S	SPEAKER - CEILING MOUNTED							
S	SPEAKER - WALL MOUNTED							
<u>©</u>	CLOCK - WALL MOUNTED							
T	TELEPHONE VOIP CONNCTION							
FACP	FIRE ALARM CONTROL PANEL							
PA	PUBLIC ADDRESS MAIN PANEL							

SIMILAR SYMBOLS USED ON DEMO PLANS. ALL ITEMS SHOWN ON DEMO PLAN TO BE REMOVED ENTIRELY UNLESS OTHERWISE NOTED.

LINE DESIGNATIONS

DEVICES TO BE REMOVED. PULL BACK ALL ASSOCIATED CONDUIT AND WIRING AND REMOVE UNLESS OTHERWISE NOTED ON THE

EXISTING TO REMAIN DEVICES

NEW DEVICES

REV. DATE

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AS SUGGESTIVE INFORMATION AS THEY MAY NOT HAVE BEEN

BUILT AND DETAILED PER THE ORIGINAL DOCUMENTS OR PER

THE OWNER'S INFORMATION.

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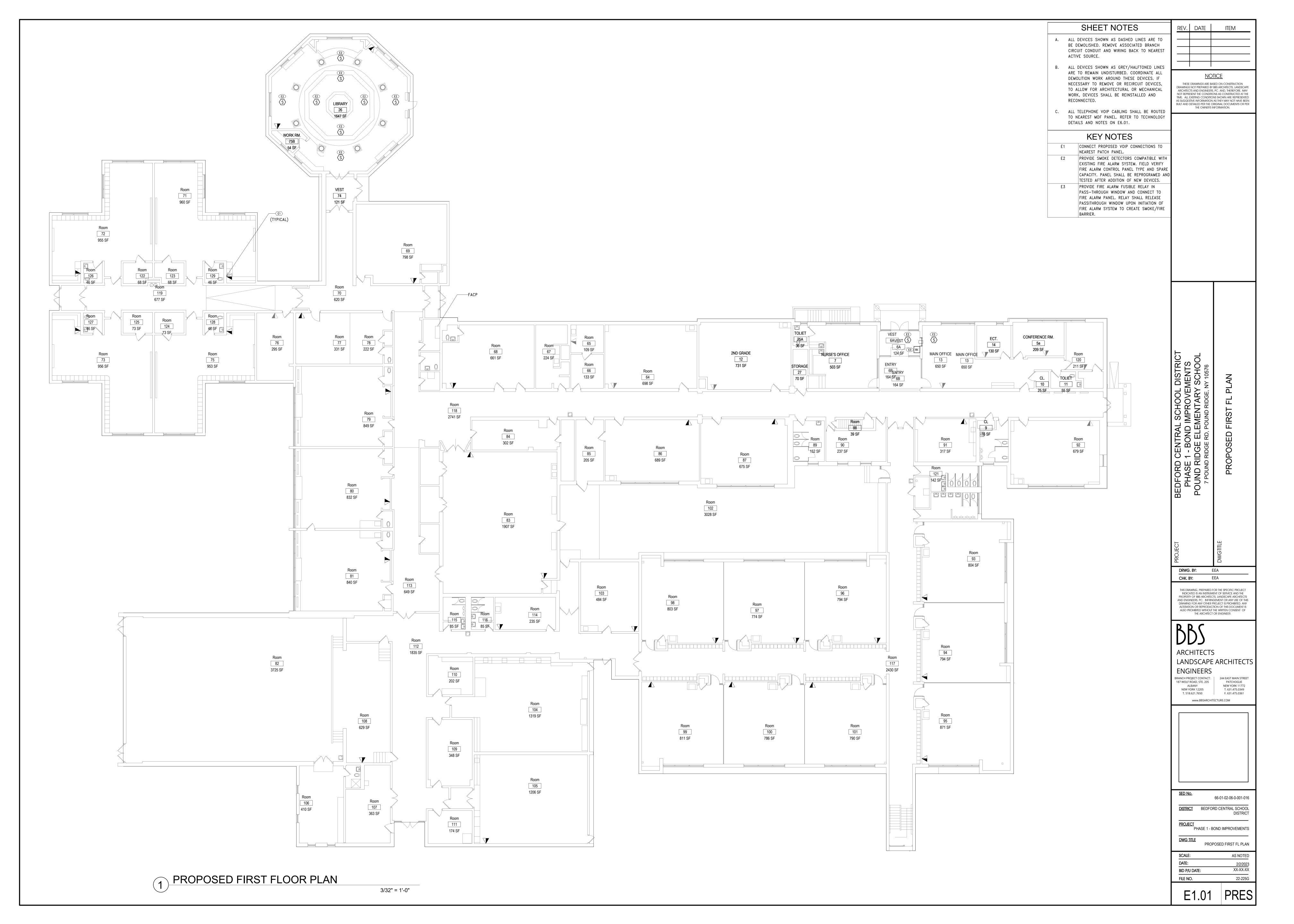
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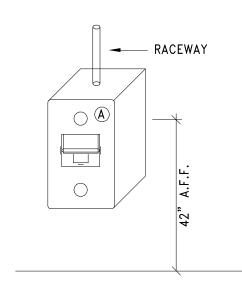
66-01-02-06-0-001-016 **DISTRICT** BEDFORD CENTRAL SCHOOL

DWG TITLE GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

BID P/U DATE:



WALL MOUNT TELEPHONE					
QNTY.	PART NUMBER	DESCRIPTION	MANUFACTURER		
1	MX-WP-K6-SS	STAINLESS STEEL PHONE PLATE W/CAT6 RJ45	SIEMON		
AS NEEDED	V700	V700 METALLIC RACEWAY	WIREMOLD		
1	V5747	SHALLOW DEVICE BOX	WIREMOLD		
1	V5785	COMBINATION CONNECTOR ENTRANCE FITTING	WIREMOLD		
***	UN874049704/10	WHITE CAT 6 CABLE	COMMSCOPI		



2 TELEPHONE RACEWAY

SCALE: N.T.S.

1. REFER TO DRAWINGS FOR QUANTITY

	TELEPHONE WALL BOX					
QNTY.	PART NUMBER	DESCRIPTION	MANUFACTURER			
1	MX-WP-K6-SS	STAINLESS STEEL PHONE PLATE W/CAT6 RJ45	SIEMON	A.F.F		
1	_	STANDARD DRYWALL BOX	-	,		
***	UN874049704/10	WHITE CAT 6 CABLE	COMMSCOPE	42,		

1 TELEPHONE WALL BOX

SCALE: N.T.S.

1. REFER TO DRAWINGS FOR QUANTITY
2. INSTALL CONDUIT AS NEEDED

DRAWING NOTES - CAT 6/CAT 6A:

- ALL 4-PAIR UTP HORIZONTAL STATION PLENUM RATED CABLES FOR VOICE/DATA SERVICES SHALL BE HOMERUN TO THE NEAREST COMMUNICATIONS ROOM.
- 2. ROUTE COMMUNICATION CABLES THROUGH THE GYPSUM WALLS, CONCRETE BLOCK AND RACEWAY UP TO THE CEILING CAVITY. COMMUNICATIONS CABLES MAIN PATHWAY WILL BE THE HALLWAYS TO THE NEAREST COMMUNICATIONS ROOM.
- 3. REFER TO THE REFLECTED CEILING PLANS AND MECHANICAL PLANS TO COORDINATE PATHWAYS IN THE CEILINGS WITH LIGHT FIXTURES AND MECHANICAL DUCT WORK.
- 4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF THE ROUTING OF CABLES ABOVE THE HUNG CEILING WITH THE ELECTRICAL, MECHANICAL AND GENERAL CONTRACTORS PRIOR TO INSTALLATION.
- 5. DO NOT LAY CABLES OVER LIGHTING FIXTURES OR ELECTRICAL MACHINERY IN THE HUNG CEILING. CABLES SHALL BE PLACED AT A MINIMUM OF 12 INCHES AWAY FROM MAGNETIC INDUCING EQUIPMENT.
- 6. FURNISH AND INSTALL ADDITIONAL SLEEVES (WITH GROMMETED ENDS) AS REQUIRED FOR THE ENTRANCES INTO THE COMMUNICATIONS ROOMS AND ANY OTHER APPLICABLE AREAS. ALL SLEEVES SHALL BE FIRESTOPPED WHEN THE INSTALLATION IS COMPLETED.
- 7. PROVIDE ALL PENETRATIONS AND RATED PARTITION FIRESTOPPING EVERY TIME A PARTITION IS TRAVERSED ABOVE THE HUNG CEILING. EXISTING FIREPROOFING MATERIAL WHICH IS DISTURBED OR DAMAGED BY THE WORK UNDER THIS CONTRACT SHALL BE REPLACED AND RESTORED TO THE SATISFACTION OF THE OWNER.
- 8. FURNISH AND INSTALL TRAPEZE, BRIDAL RINGS, CADDY HANGERS, J-HOOKS AND OTHER INDUSTRY ACCEPTED METHODS REQUIRED TO SUPPORT ALL INSTALLED CABLES. DO NOT SUPPORT CABLES ON CEILING BLACK IRON, DROP CEILING GRID OR ON ANY OTHER DEVICES THAT ARE NOT INTENDED FOR THE SUPPORTING OF CABLES. EXCEPT FOR GROUPS OF 10 OR FEWER CABLES, CABLE SUPPORTS SHALL BE ANCHORED TO THE UNDERSIDE OF THE SLAB AND CLAMPED TO BUILDING STEEL.
- 9. CABLES MUST BE SUPPORTED AT A MINIMUM EVERY SIX (6) FEET AND BUNDLES MUST BE HOOK & LOOPED TOGETHER AT A MINIMUM OF EVERY THREE (3) FEET.
- 10. ALL CABLES SHALL BE INSPECTED AS THEY ARE PULLED OFF THE REEL FOR ANY OBVIOUS DEFECTS. REPORT ANY DEFECTS IMMEDIATELY TO THE ENGINEER AND HALT FURTHER USE OF THE CABLE FROM THAT REEL, PENDING A DETERMINATION OF THE QUALITY OF THE REEL BY THE MANUFACTURER.
- 11. ALL CABLES SHALL BE PULLED BY HAND AND CONTINUOUSLY MONITORED BY A TENSION METER SO AS NOT TO EXCEED THE PRESCRIBED MAXIMUM PULLING TENSION RECOMMENDED BY THE MANUFACTURER.
- 12. CONTRACTOR SHALL NOT EXCEED THE CABLE PULLING FORCE AND MINIMUM CABLE BENDING RADIUS. CABLE TERMINATIONS AT DISTRIBUTION RACKS/CABINETS FOR VOICE AND DATA SHALL BE DRESSED NEATLY AND DONE IN A WORKMANLIKE MANNER. HOOK & LOOP CABLES AND CUT TO LENGTH AT TERMINATION POINTS.
- 13. WHEN INSTALLING ENHANCED CATEGORY-6 UTP CABLE, MAKE SURE THE CABLE IS NEVER BENT BEYOND A 90 DEGREE ANGLE. A CABLE BEND RADIUS OF 4 TIMES THE DIAMETER OF THE CABLE IS RECOMMENDED. (ON A 4-PAIR CABLE, THIS IS APPROXIMATELY ONE INCH.)
- 14. ALL CABLES SHALL BE PULLED BY THE ELECTRICAL CONTRACTOR IN CONTINUOUS SPLICE—FREE RUNS, WITH NO FACTORY OR FIELD SPLICES, UNLESS OTHERWISE SHOWN ON DRAWINGS AND/OR SPECIFICATIONS.
- 15. PULLING AND LAYING CABLE ON SHARP EDGES IS NOT PERMITTED.
- 16. THE CABLE PATHS SHOWN ON DRAWINGS REPRESENT DESIGN INTENT AND APPROXIMATE ROUTING OF CABLES IN HUNG CEILING TO DROP OFF POINTS. ADJUST ACCORDINGLY TO EXISTING FIELD CONDITIONS.
- 17. QUANTITY OF CABLE IS NOT REPRESENTED. CONTRACTOR SHALL TABULATE QUANTITY BASED UPON COMMUNICATION OUTLET SYMBOLS SHOWN (TYPICAL). CONTRACTOR TO VERIFY IN FIELD AND MAKE ADJUSTMENTS AS REQUIRED.
- 18. PROVIDE A MINIMUM OF SIX (6) FEET OF SLACK AT THE STATION END FOR WORKSTATION LOCATIONS. NEATLY COIL AND CONCEAL SLACK ABOVE THE HUNG CEILING AND PROTECT FROM DAMAGE BY WORKMEN PRIOR TO EXTENDING CABLE AND INSTALLING TO VOICE/DATA WORKSTATION OUTLET.
- 19. ALL VOICE/DATA UTP STATION CABLES SHALL BE HOMERUN BACK TO THE MAIN -OR-IDF COMMUNICATIONS ROOM AS ILLUSTRATED ON THE TECHNOLOGY FLOOR PLANS.
 REFER TO DETAIL PLANS AND ELEVATIONS FOR THE DEMARCATION LOCATIONS OF ALL
- 20. ALL ABANDONED/NON USED CABLES TO BE REMOVED FROM PLENUM SPACES AS PER CODE.
- 21. ALL NEW EQUIPMENT TO BE GROUNDED AND BONDED AS PER CODE.
- 22. ALL TELECOMMUNICATION INFRASTRUCTURE GROUNDING SHALL BE PROVIDED IN COMPLIANCE WITH TIA 607 AND TIA TSB-162 FOR WIRELESS SYSTEM INSTALLATION.

VOICE CONSTRUCTION NOTES:

1. PROVIDE AND INSTALL A VOICE RUN FROM NEW PHONE DROPS TO EXISTING LOCAL WIRE CLOSET. VOICE SHALL BE CATEGORY 6 CABLE TO TERMINATE AT BOTH ENDS USING CAT6 RJ45 CONNECTORS AND PATCH PANELS.

2. VOICE BACK BONE CABLE TO BE INSTALLED TO A 24 PORT PATCH PANEL. E.C. TO TERMINATE EACH PAIR TO THE BLUE PAIR OF THE PATCH PANEL. LAST PAIR TO REMAIN UN-TERMINATED.

3. ALL CABLES SHALL BE CONCEALED AND SURFACE RACEWAY SHALL BE USED AT ALL EXPOSED AREAS.

DRAWING NOTES

1. MAINTAIN APPROPRIATE SEPARATION OF LINE VOLTAGE AND LOW VOLTAGE CABLE.

- 2. QUANTITY OF DROPS AS PER FLOOR PLANS.
- 3. 2 DUPLEX RECEPTACLES PER DROP UNLESS SPECIFIED OTHERWISE.
- 4. MAINTAIN 3' ON CENTER PER DROP SETUP.
- 5. CABLES BACKFED OR RACEWAY FED AS REQUIRED.

REV. DATE ITEM

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ORIGINAL DOCUMENTS:

KEY PLAN

NO SCALE

PROJECT
BEDFORD CENTRAL SCHOOL DISTRICT
PHASE 1 - BOND IMPROVEMENTS
POUND RIDGE ELEMENTARY SCHOOL
7 POUND RIDGE RD, POUND RIDGE, NY 10576
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CHK. BY: Checker

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BEDFORD CENTRAL SCHOOL DISTRICT

PROJECT

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