899 NORTON ROAD

LIST OF DRAWINGS:

TITLE SHEET

ARCHITECTURAL DRAWINGS

| <u>ARCHITECTU</u> | JRAL DRAWINGS |
|---|---|
| A-0.1 A-1.1 A-1.2 A-5.1 A-9.1 A-10.1 A-10.2 | ARCH. GENERAL INFORMATION AND ABBREVIATIONS DEMOLITION AND PROPOSED PLANS ENLARGED AND APPLIANCE AND FURNITURE PLANS MOUNTING HEIGHTS AND DETAILS DOOR INFORMATION AND DETAILS CASEWORK ELEVATIONS AND DETAILS CASEWORK DETAILS |
| <u>PLUMBING D</u> | RAWINGS |
| P-0.0 P-1.0 P-3.0 P-5.0 | PLUMBING LEGENDS AND NOTES PLUMBING DEMOLITION AND PROPOSED PLANS PLUMBING SCHEDULE PLUMBING SPECIFICATIONS |
| FIRE PROTEC | CTION DRAWINGS |
| FP-1.0 FP-2.0 FP-5.0 | FIRE PROTECTION PLANS FIRE PROTECTION DETAILS FIRE PROTECTECTION SPECIFICATIONS |
| MECHANICA | L DRAWINGS |
| M-1.1 M-5.0 | MECHANICAL DEMOLITION AND PROPOSED PLANS MECHANICAL SPECIFICATIONS |
| ELECTRICAL | DRAWINGS |
| E-0.1 E-1.1 E-2.1 | ELECTRICAL LEGENDS AND NOTES ELECTRICAL DEMOLITION AND PROPOSED PLANS ELECTRICAL SPECIFICATIONS |
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| | |



INTERIOR ALTERATIONS TO

MCGEE MIDDLE SCHOOL BLAST **CLASSROOM**

BERLIN, CONNECTICUT

TOWN BID NO. 2019-19

ARCHITECT

P/FP/M/E ENGINEER

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JUNE 10, 2019

| 9 | |
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| | |

ABBREVIATIONS

| | ABOVE FINISH FLOOR | F.R. | FIRE RETARDENT |
|--|--|-----------------------|---|
| | ACOUSTIC, ACOUSTICAL | | FIREPROOFING |
| | ALUMINUM COMPOSITE MATERIAL ACOUSTICAL TILE & GRID | | FIXTURE FLASHING |
| | ADDITION | | FLOOR |
| | AIR COMPRESSOR | | FLOOR DRAIN |
| | AIR HANDLING UNIT | | FLOOR FINISH |
| | ALTERNATE ALUMINUM | | FOOTING FOUNDATION |
| | ALUMINUM FRAME | | FULL-HEIGHT MIRROR WITH STAINLESS STE |
| ANSI | AMERICAN NATIONAL STANDARDS INSTITUTE | FURN. | FURNISH, FURNISHED |
| | AMERICAN SOCIETY FOR TESTING AND MATERIALS | FURR. | FURRED, FURRING |
| | AMERICANS WITH DISABILITIES ACT ANCHOR, ANCHORAGE | GA. | GAUGE |
| | ANCHOR BOLTS | GALV. | GALVANIZED |
| | AND | G.C. | GENERAL TRADES CONTRACTOR |
| | ANGLE | GLAZ. | |
| ANOD. APPR. | ANODIZED APPROXIMATELY | G.B. | GRAB BAR GROUND-FAULT CIRCUIT INTERUPTOR |
| | APPROXIMATELY | | 3D. GYPSUM WALLBOARD |
| | ARCHITECT, ARCHITECTURAL | | |
| | ASBESTOS | H.R. | HANDRAIL |
| | ASPHALT ASSEMBLY | | HANDICAPPED HEIGHT |
| | ASSISTAND | | HIGH POINT |
| @ | AT | H.M. | HOLLOW METAL |
| | AUTOMATED FINGERPRINT IDENTIFICATION SYSTEM | | HOLLOW METAL FRAME |
| AUTO | AUTOMATIC | | HORIZONTAL HOSE BIB |
| BM | BEAM | п.д. Н.Д.G. | HOSE DID HOT-DIPPED GALVANIZED |
| | BEARING | | |
| BET or B/W | | | INCH, INCHES |
| | | | INCLUDE, INCLUDING |
| | BITUMINOUS BLOCK | | INFORMATION INSIDE DIAMETER |
| | BLOCKING | | INSULATION |
| BD. | BOARD | | INTEGRATED TECHNOLOGY |
| BOTT. B.O. | BOTTOM BOTTOM OF | INT. INTOX. | INTERIOR INTOXILYZER |
| | BOITOM OF BRICK EXPANSION JOINT | INTOX. | INI VALLI ZER |
| | BUILDING | K.F.E. | KITCHEN FIRE EXTINGUISHER |
| B.U.R. | BUILT-UP ROOFING | K.P. | KICK PLATE |
| | | LAB | |
| | CABINET CABINET UNIT HEATER | | LABORATORY LAVATORY |
| | CAPACITY | | LIGHTING |
| | CEILING | | LINE OF |
| | T. CEILING HEIGHT CEMENT | | .LOCKER, LOCKERS LOW POINT |
| | CENTER | L.F. | |
| | CENTERLINE | MACH. | MACHINE |
| | CERAMIC TILE | | MAIN ELECTRICAL DISTRIBUTION PANEL |
| | CHALK BOARD | MAINT. MANUF. | MAINTENANCE |
| - | CHANNEL CLOSET | MANUF. MFR. | MANUFACTURED MANUFACTURER |
| | COLUMN | M.TH. | MARBLE THRESHOLD |
| | CONCRETE | M.BD. | MARKER BOARD |
| | | MAS. | MASONRY |
| | CONTROL JOINT CONTINUOUS | | MASONRY OPENING MATERIAL |
| | CONTRACTOR | MAX. | MAXIMUM |
| | CORNER GUARD | MECH. | MECHANICAL |
| | CORRIDOR | MET. or MTL. | |
| CRS. | COURSE, COURSES | MEZZ. MW | MEZZANINE MICROWAVE OVEN |
| DMPFG. | DAMPROOFING | | MINIMUM |
| DEG. | DEGREE | M.W.F. | MIRROR WITH STAINLESS STEEL FRAME |
| | DEMOLITION | MISC. | MISCELLANEOUS |
| DEPT. DET. or DTL. | DEPARTMENT | MTD. | MOUNTED |
| DEL. OF DIL. DIA. | DIAMETER | NOM. | NOMINAL |
| DIM. | DIMENSION | N.S.O. | NON-SIMULTANEOUS OCCUPANCY |
| D/W | DISHWASHER | N | NORTH |
| DIST. DP | DISTANCE | N.I.C. | NOT IN CONTRACT |
| DR D.F.S. | DOOR DOOR FLOOR STOP | N.I.S. N.T.S. | NOT IN SCOPE NOT TO SCALE |
| D.N.S. | DOOR WALL STOP | | NUMBER |
| DBL. | DOUBLE | | |
| D.H. DN | DOUBLE-HUN DOWN | OFF. O.C. | OFFICE ON CENTER |
| DN D/F | DOWN FLOW | | OPPOSITE HAND |
| | DOWNSPOUT | | ORIENTED STRAND BOARD |
| | DRAWING | <i>O</i> . <i>D</i> . | OUTSIDE DIAMETER |
| D.F. | DRINKING FOUNTAIN | | PAINTED |
| EA. | EACH | PTD. PR. | PAINTED PAIR |
| | ELECTRIC, ELECTRICAL | P.T.D. | PAPER TOWEL DISPENSER |
| EMT | ELECTRICAL METAL TUBING | PASS. | PASSAGE |
| | ELECTRIC WATER COOLER | | PERPENDICULAR PIPE COVERS (ADA COMPLITANT) |
| EL. or ELEV. ELEV. | ELEVATION ELEVATOR (AS OCCURS) | P.C. PLAS. | PIPE COVERS (ADA COMPLIANT) PLASTER |
| | EMERGENCY | | PLASTIC LAMINATE |
| EGAP | EMERGENCY GENERATOR ANNUNCIATOR PANEL | PL. | PLATE |
| | ETHYLENE PROPYLENE DIENE MONOMER | PLBG. OF PLU PLYMD | MB. PLUMBING |
| EQ. EQUIP. | EQUAL EQUIPMENT | PLYWD Poly | PLYWOOD Polyethylene |
| | EXISTING | PVC | POLYVINYLCHLORIDE |
| E.T.R. | EXISTING TO REMAIN | lbs. | POUNDS |
| | EXPANSION | PWDR | POWDER |
| | EXPANSION JOINT EXTERIOR | PC P.E.J. | PRECAST PRECAST EXPANSION JOINT |
| | EXTERIOR EXTERIOR INSULATIVE FINISH SYSTEM | P.E.J. PREFAB | PRECAST EXPANSION JOINT PREFABRICATED |
| | EXTRUDED POLYSTYRENE | P.T. | PRESSURE TREATED |
| XPS | | PTR | PRINTER |
| | FEET, FOOT | | |
| FT | | | |
| | FIBER-REINFORCED GYPSUM PANELS FIBERGLASS | QTY. Q.T. | QUANTITY QUARRY TILE |
| FT F.R.G.P. | FIBER-REINFORCED GYPSUM PANELS | | |
| FT F.R.G.P. F.G. FIN. FAAP | FIBER-REINFORCED GYPSUM PANELS FIBERGLASS FINISH, FINISHED FIRE ALARM ANNUNCIATOR PANEL | | |
| FT F.R.G.P. F.G. FIN. FAAP | FIBER-REINFORCED GYPSUM PANELS FIBERGLASS FINISH, FINISHED | | |

STEEL FRAME

R OT RAD. RADIUS RMC RAIN WATER CONDUCTOR RML RAIN WATER LEADER RECT. RECTANGLE RECV. RECEIVING REF. REFERENCE REFR. REFRIGERATOR REINF. REINFORCE, REINFORCING REQ. OF REQ'D REQUIRE, REQUIRED REQM'TS REQUIREMENTS REV. REVISED, REVISION RISER R. R.D. ROOF DRAIN RM. ROOM R.S. ROOM SIGNAGE R.H. ROBE HOOK R.O. ROUGH OPENING SANITARY NAPKIN DISPOSAL S.N.D. SANITARY NAPKIN VENDING MACHINE 5.N.V.M. SCHED. SCHEDULE SC. SCUPPER SECT. SECTION S.J. SEISMIC JOINT SHT SHEET S.C. SHOWER CURTAIN & HOOKS 5.C.R. SHOWER CURTAIN ROD SIM. SIMILAR SOAP DISPENSER (SINK/LAVATORY MOUNTED) S.D.L. SOAP DISPENSER (WALL MOUNTED) 5.D.W. SVT SOLID VINYL TILE S.T.C. OF STC SOUND TRANSMISSION CLASS SPEC. SPECIFICATIONS S.B. SPLASH BLOCK SQ. SQUARE S.F. OR SQ.FT. SQUARE FEET STAINLESS STEEL S.S. STD STANDARD STEEL STL STOR. STORAGE STRUCT. STRUCTURAL S.STL. STRUCTURAL STEEL SUSP. SUSPEND, SUSPENSION S.G.B. SWING-UP GRAB BAR T.BD. TACKBOARD THRU THROUGH T.S.S. TILT-UP SHOWER SEAT (ADA COMPLIANT) T.P.D. TOILET PAPER DISPENSER T₿G TOUNGE AND GROOVE Τ.Ο. TOP OF T.O.P. TOP OF PLATE T.O.SL. TOP OF SLAB T.O.ST. TOP OF STEEL TREAD TR.DR. TRENCH DRAIN TYP. TYPICAL UNDERWRITER'S LABORATORY INC. UL. U/C REF. UNDER-COUNTER REFRIGERATOR UNIT DIMENSION U.D. UNIT HEATER U.H. UNIT VENTILATOR U.V. U.O.N. UNLESS OTHERWISE NOTED U. Or UR. URINAL VTR VENT THROUGH ROOF V.I.F. VERIFY IN FIELD V.G.B. VERTICAL GRAB BAR VERTICAL RAIN LEADER V.L. VEST. VESTIBULE VINYL COMPOSITION TILE VCT VET VINYL ENHANCED TILE W.C. WATER CLOSET MP. WATERPROOFING W.W.F. OR WWF WELDED WIRE FABRIC W.BD. WHITE BOARD WIN. OF WDW WINDOW Μ/ WITH WOOD ND

WALL NOTES 1. FIRECODE GYPSUM BOARD IN A ONE OR TWO-HOUR RATED PARTITION MUST BEAR THE U.L. CLASSIFICATION. 2. ALL FIRE AND SMOKE RESISTANT SEPARATIONS ARE TO EXTEND TO THE UNDERSIDE OF FLOOR OR ROOF DECK ABOVE, TYPICAL. 3. FOR SMOKE RESISTANT SEPARATIONS PROVIDE FIRE SAFING AND SEALANT AT FLOOR, ROOF DECK AND ALL PENETRATIONS TO PREVENT THE PASSAGE OF SMOKE. 4. FOR ALL FIRE RATED PARTITIONS PROVIDE FIRE SAFING AND SEALANT AT FLOOR, ROOF DECK AND ALL PENETRATIONS TO PREVENT THE PASSAGE OF SMOKE AND FLAME. THE FIRE SAFING AND SEALANT SYSTEM MUST MAINTAIN THE RATING OF THE SEPARATION. 5. AT ALL NON-RATED PARTITIONS, FILL METAL DECK FLUTES WHERE PARTITIONS MEET THE STRUCTURE ABOVE WITH BATT. INSULATION. 6. AT ALL NON-RATED PARTITIONS, FILL ALL VOIDS BETWEEN PIPES, ELECTRICAL CONDUIT, DUCTWORK, ETC. WHERE THEY PENETRATE WALLS WITH BATT INSULATION. 7. PROVIDE SMOKE DAMPERS AT ALL MECHANICAL PENETRATIONS THROUGH ONE HOUR FIRE RATED SMOKE BARRIERS. 8. PROVIDE FIRE DAMPERS AT ALL MECHANICAL PENETRATIONS THROUGH TWO HOUR FIRE RATED PARTITIONS. 9. EXTEND ALL METAL STUD PARTITIONS TO THE UNDERSIDE OF DECK/ STRUCTURE, UNLESS OTHERWISE NOTED. 10. ALL PARTITIONS, PART OF THE THERMAL ENVELOPE, SHALL BE FULLY AIR SEALED WITH SEALANT TO MITIGATE THE TRANSFERENCE OF AIR. THIS SHALL INCLUDE ALL SILL/SOLE PLATES, TOP PLATES, DISSIMILAR MATERIAL TRANSITIONS, PENETRATIONS, JOINTS, AND SHEATHING PERIMETERS. IN AREAS OF RATED PARTITIONS, SEALANT SHALL BE OF SUFFICIENT GRADE TO COMPLY WITH FIRE RATING REQUIREMENTS. TYPICAL. 11. CONTRACTOR IS TO PERMANENTLY INDICATE LOCATIONS OF RATED WALLS, AS SHOWN ON CODE PLANS, BY PAINTING STENCILS ON SAID WALLS, ABOVE CEILING, AS DETAILED. 12. CONTRACTOR IS TO PROVIDE HANDICAP RESTROOM SIGNAGE AT ALL RESTROOM ENTRANCE DOORS AS DETAILED. **GENERAL NOTES** 1. CONTRACTOR TO TAKE AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND SHALL BE HELD RESPONSIBLE FOR THE SAME. 2. ALL NOTES AND DIMENSIONS DESIGNATED AS TYPICAL APPLY TO ALL SIMILAR CONDITIONS THROUGHOUT THE PROJECT. 3. ALL DIMENSIONS ARE TO FACE OF FOUNDATION AT EXTERIOR, FACE MASONRY, FACE OF METAL STUD AND CENTERLINE OF STRUCTURAL STEEL COLUMNS UNLESS OTHERWISE NOTED. 4. ROOFING CONTRACTOR TO VERIFY QUANTITY AND LOCATION OF ROOF PENETRATIONS, AND TO FLASH ACCORDING TO MANUFACTURERS' SPECIFICATIONS. 5. PROVIDE A 1" BULLNOSE AT ALL EXPOSED CONCRETE MASONRY UNIT CORNERS. 6. FOR MASONRY REINFORCEMENT SEE SPECIFICATIONS AND STRUCTURAL DRAWINGS. 7. ALL DOOR FRAME EDGES SHALL BE LOCATED 4" FROM WALL INTERSECTIONS UNLESS OTHERWISE NOTED. 8. SEE STRUCTURAL DRAWINGS AND FINISH PLANS FOR POSSIBLE LOCATIONS OF DEPRESSED STRUCTURAL CONCRETE SLABS. 9. THE REQUIREMENTS FOR SEISMIC LOADS HAVE BEEN INCORPORATED INTO THE DESIGN OF THE STRUCTURAL, MECHANICAL AND SUSPENDED CEILING SYSTEMS AS REQUIRED FOR THE NEW CONSTRUCTION. 10. FOR EXTERIOR MASONRY CONTROL JOINTS REFER TO THE EXTERIOR ELEVATION SHEETS. 11. FOR INTERIOR MASONRY EXPANSION JOINTS AND CONTROL JOINTS, JOINTS SHALL BE PLACED AS IDENTIFIED BY THE SPECIFICATION, PREFERABLY AT THE JUNCTION OF WALLS FIRST AND THEN BY THE REQUIRED DISTANCES. PROVIDE A CONTROL JOINT AT ALL EDGES WHERE MASONRY ABUTS STRUCTURAL STEEL. 12. ELECTRICAL CONTRACTOR TO COORDINATE PLACEMENT OF ELEC./ DATA OUTLETS AND SWITCHES WITH THE LOCATION OF CASEWORK. REFER TO CASEWORK DRAWINGS AND ELECTRICAL DRAWINGS. 13. ALL SPRINKLER PIPING TO BE LOCATED ABOVE FINISH CEILING UNLESS OTHERWISE NOTED. 14. SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF CEILING PADS. 15. EXPOSED SPRINKLER INSTALLATIONS SHALL BE CAREFULLY COORDINATED IN THE FIELD TO AVOID CONFLICTS WITH LIGHTING AND OTHER CEILING MOUNTED EQUIPMENT. 16. ALL RATED DOORS SHALL HAVE POSITIVE LATCHING LOCK SETS OR LATCH SETS AND CLOSERS. 17. ALL DOOR LEVERS ON DOORS LEADING TO HAZARDOUS SPACES SHALL BE KNURLED. 18. ALL DOORS EXITING 100 OR MORE PERSONS SHALL HAVE PANIC EXIT DEVICES. 19. METAL STUD CONTRACTOR TO PROVIDE AND COORDINATE PLACEMENT OF METAL STUD SLIP TRACKS AT ALL STUD WALLS BUILT ON TOP OF OR UNDER STRUCTURAL STEEL BRACING FRAMES, TYPICAL. 20. PROVIDE AN ALUMINUM DIVIDER STRIP AT ALL DOOR THRESHOLDS WHERE TWO DIFFERENT FINISHES MEET UNLESS OTHERWISE NOTED. 21. METAL STUD CONTRACTOR TO PROVIDE AND COORDINATE PLACEMENT AND BLOCKING FOR ALL WALL MOUNTED ELEMENTS ON METAL STUD OR METAL FURRING WALL CONSTRUCTION. TYPICAL. 22. ALL PARTITIONS, CEILINGS, ROOFS, FENESTRATIONS, AND FLOORS, PART OF THE THERMAL ENVELOPE, SHALL BE FULLY AIR SEALED WITH SEALANT TO MITIGATE THE TRANSFERENCE OF AIR. THIS SHALL INCLUDE ALL SILL/SOLE PLATES, TOP PLATES, DISSIMILAR MATERIAL TRANSITIONS, PENETRATIONS, JOINTS, AND SHEATHING PERIMETERS. IN AREAS OF RATED PARTITIONS, SEALANT SHALL BE OF SUFFICIENT GRADE TO COMPLY WITH FIRE RATING REQUIREMENTS. TYPICAL.

| ALTERATIONS TO | | UDLE SCHUUL | CLASSROOM | BERLIN, CONNECTICUT |
|-----------------------------|----|-------------|---------------------|---------------------|
| INTERIOR AL | | MCUEE MID | BLAST CI | 899 NORTON ROAD |
| 15 M SUIT BERI TEL | | IO D | CTS, RIVE 37 | MES |
| IN | GE | NE | CH. ERAI IATI | |

SUBMISSIONS & REVISIONS

6/10/19 BIDDING

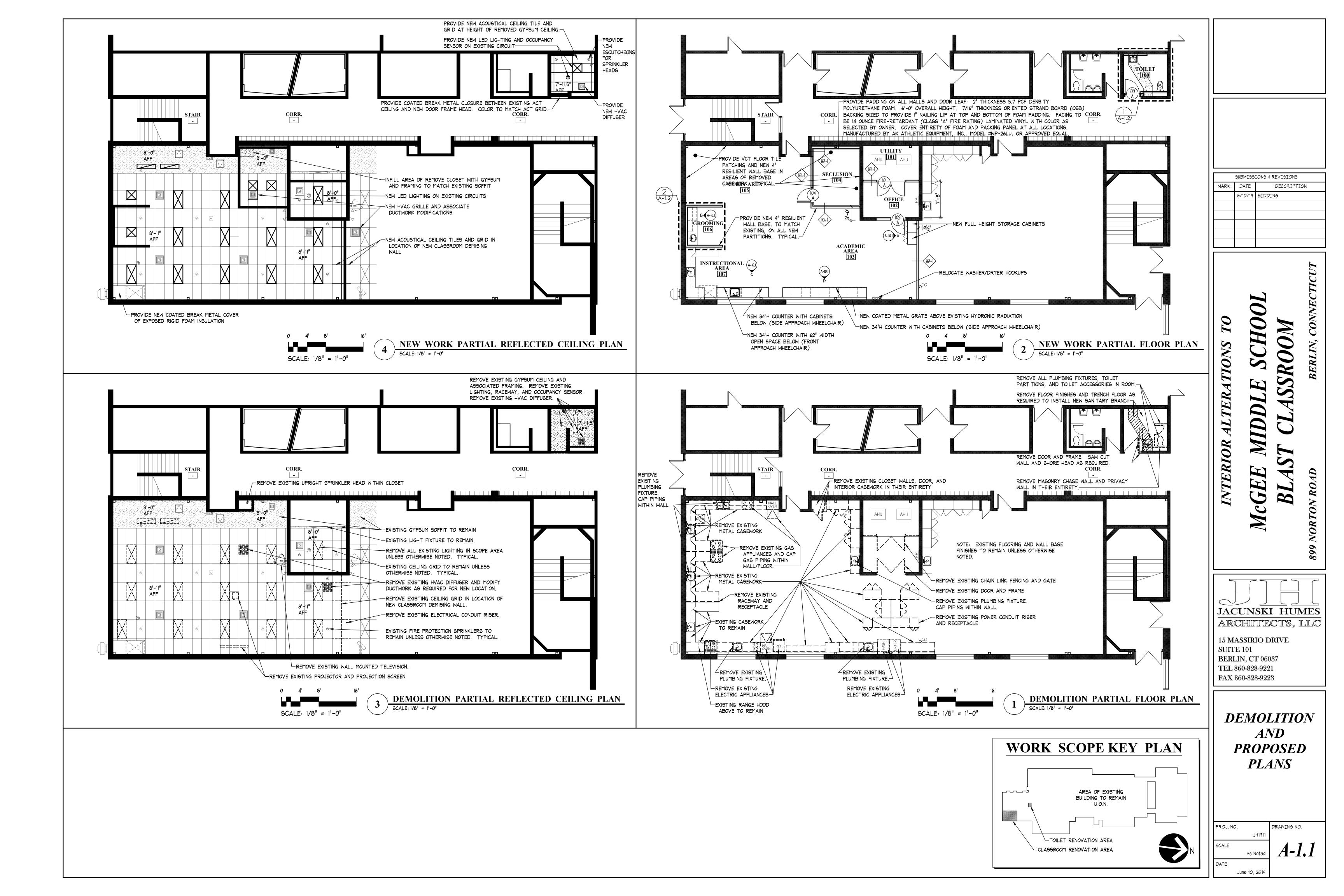
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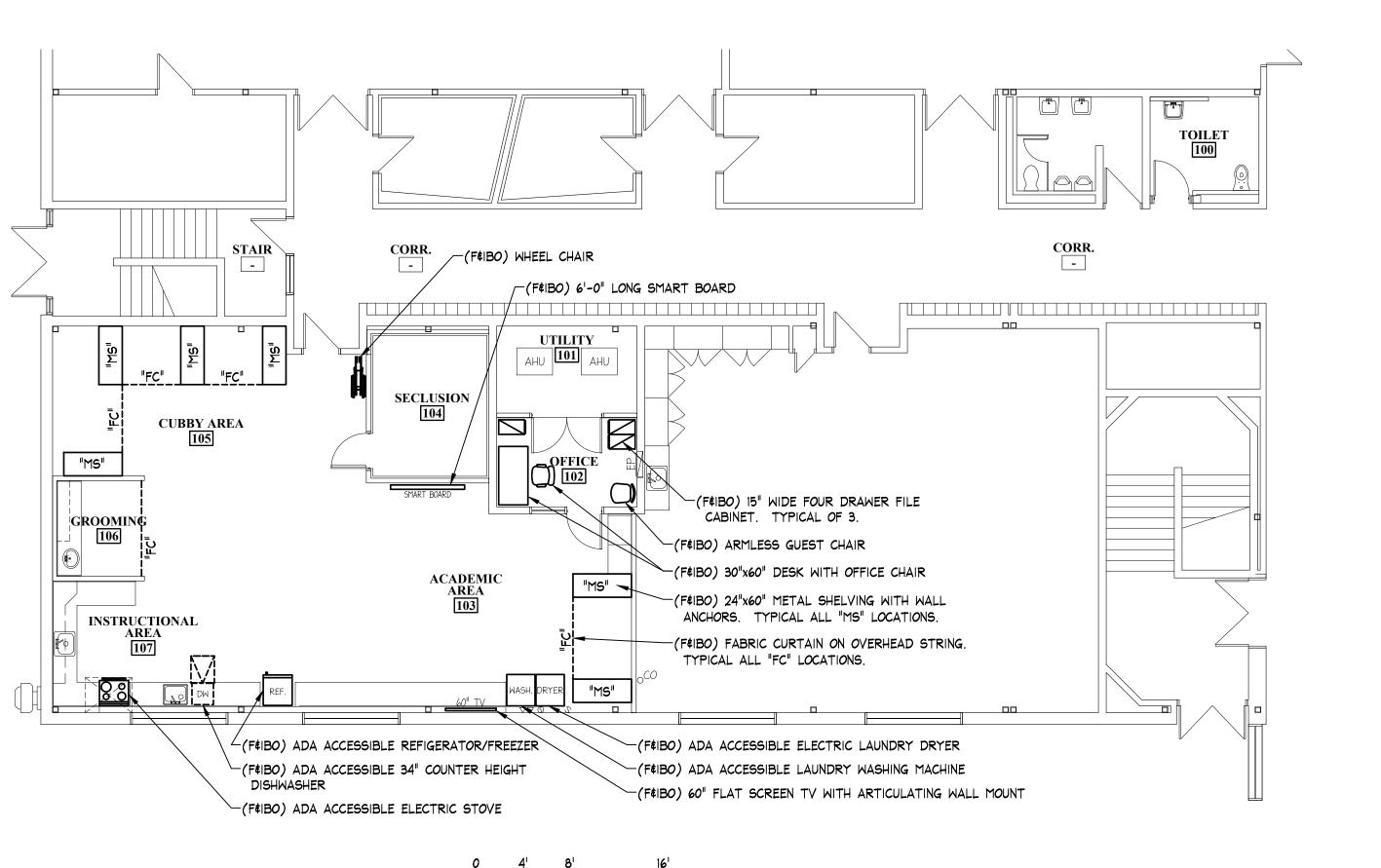
MARK DATE

| ABBREV | IATIONS |
|-----------|-------------|
| PROJ. NO. | DRAWING NO. |
| JH1911 | |
| SCALE | A-0.1 |
| DATE | |

June 10, 2019

AND





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

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

INFILL TRENCH WITH TO MATCH EXISTING PROVIDE NEW SOLID VINYL TILE FLOORING OWNER. PROVIDE SELF-LEVELER OVER APPLICATION .---TOOTH IN NEW LINTEL ABOVE DOOR----

CONCRETE AND BLEND AND PER TYPE "FC-E"-AND 4" RESILIENT WALL BASE THROUGHOUT WITH COLOR AS SELECTED BY ENTIRE ROOM PRIOR TO PROVIDE EPOXY FLOORING WITH SPECKLE TO MATCH EXISTING TERRAZZO FLOORING IN CORRIDOR-GROUT VOIDS AND GRIND SMOOTH EXPOSED MASONRY SURFACES WHERE DOOR FRAME WAS REMOVED. PROVIDE SMOOTH SURFACE AND PRIME AND PAINT TO MATCH CORRIDOR .--

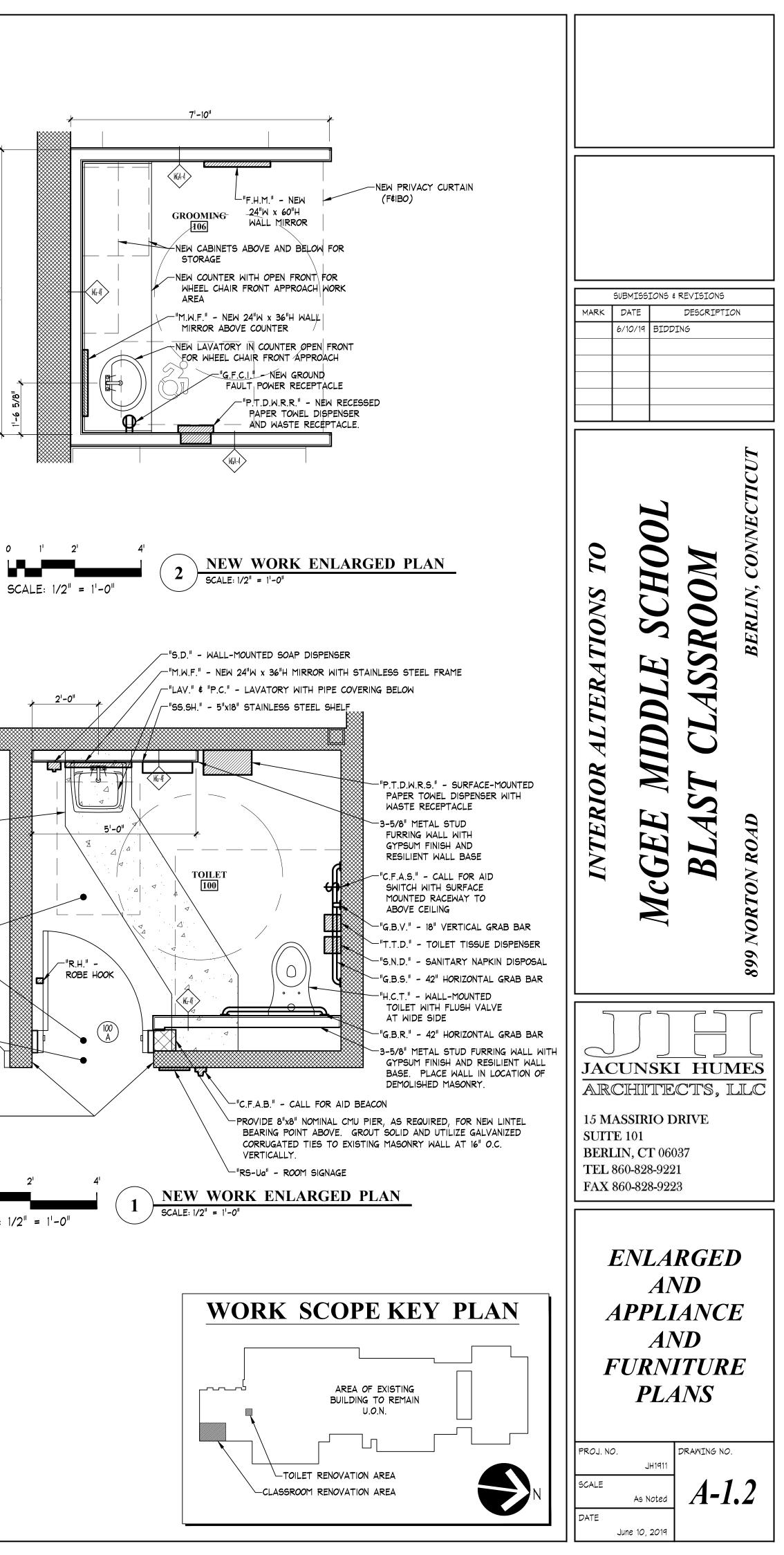
9

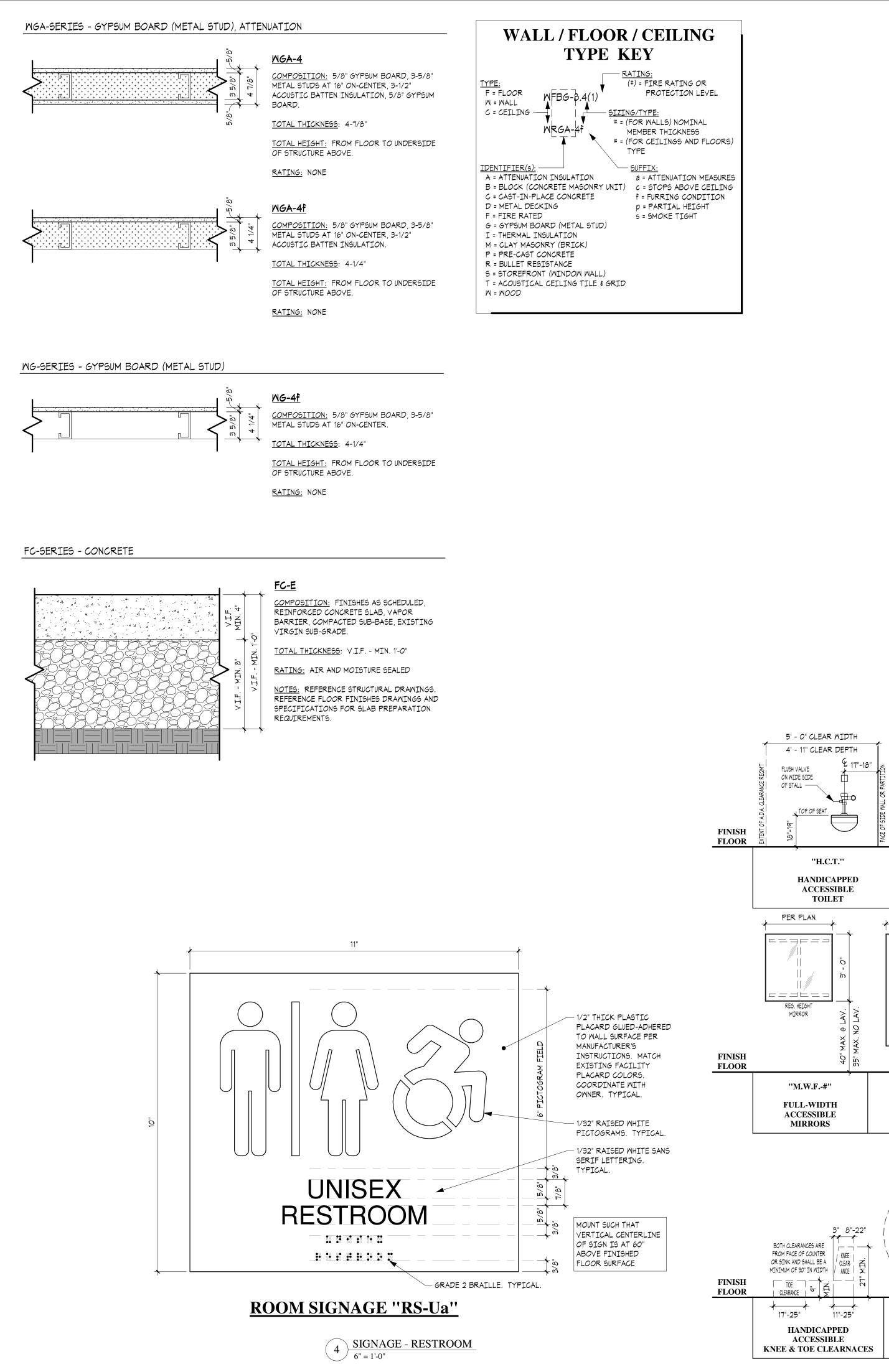
0 1' 2' SCALE: 1/2'' = 1' - 0''

OWNER. PROVIDE IN-WALL BLOCKING AS REQUIRED. COORDINATE WITH OWNER.

(F&IBO) = FURNISHED AND INSTALLED BY

NEW WORK APPLIANCE AND FURNITURE PLAN





42" MIN.

⁽¹⁾ 1-1/4" - 2" O.D.

GRIPPING SURFACES

SHALL BE PEENED

TURNING SPACES

CLEAR FLOOR SPACE

"G.B.S."

2' - 0"

-++

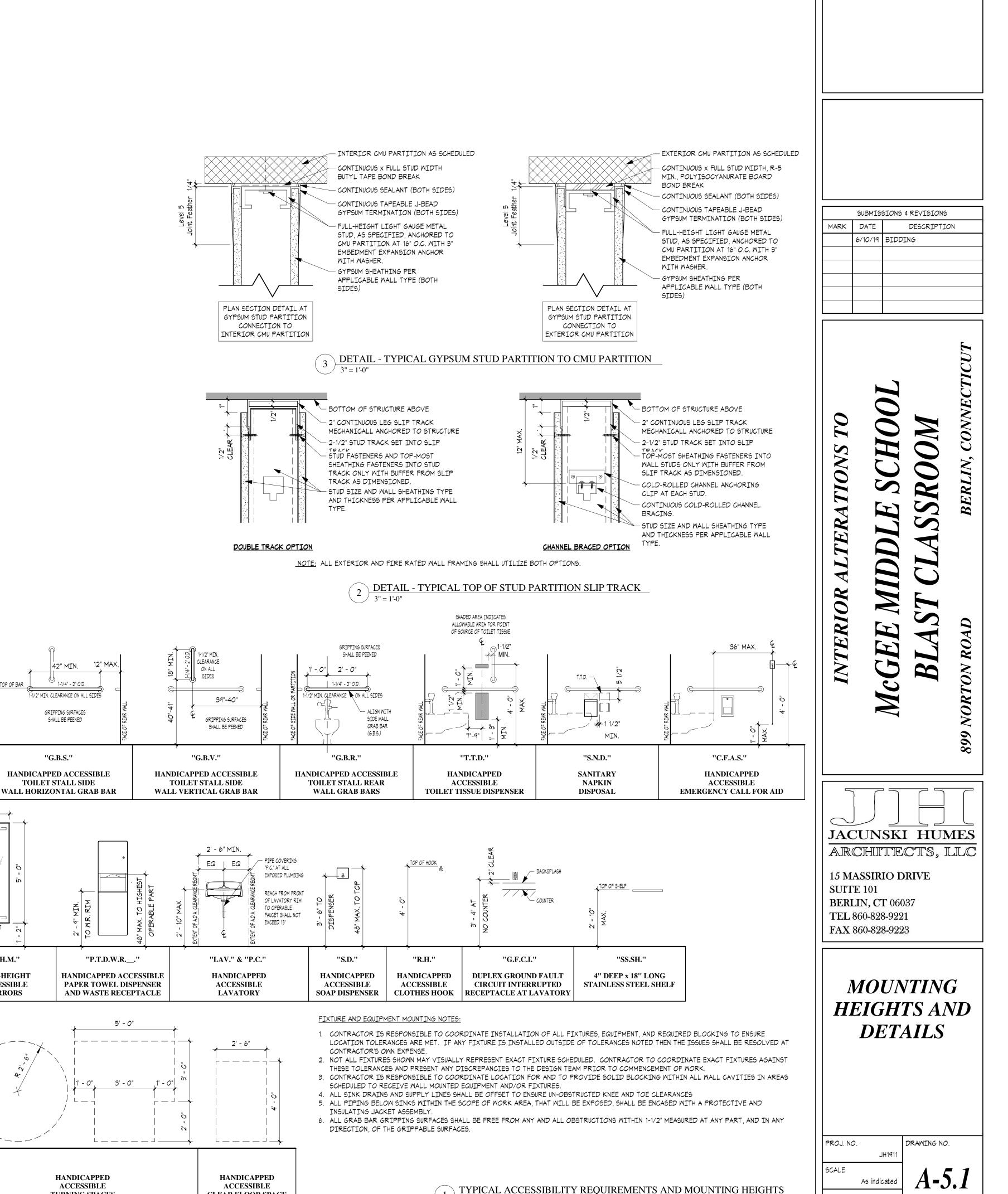
FULL-HEIGHT MIRROR

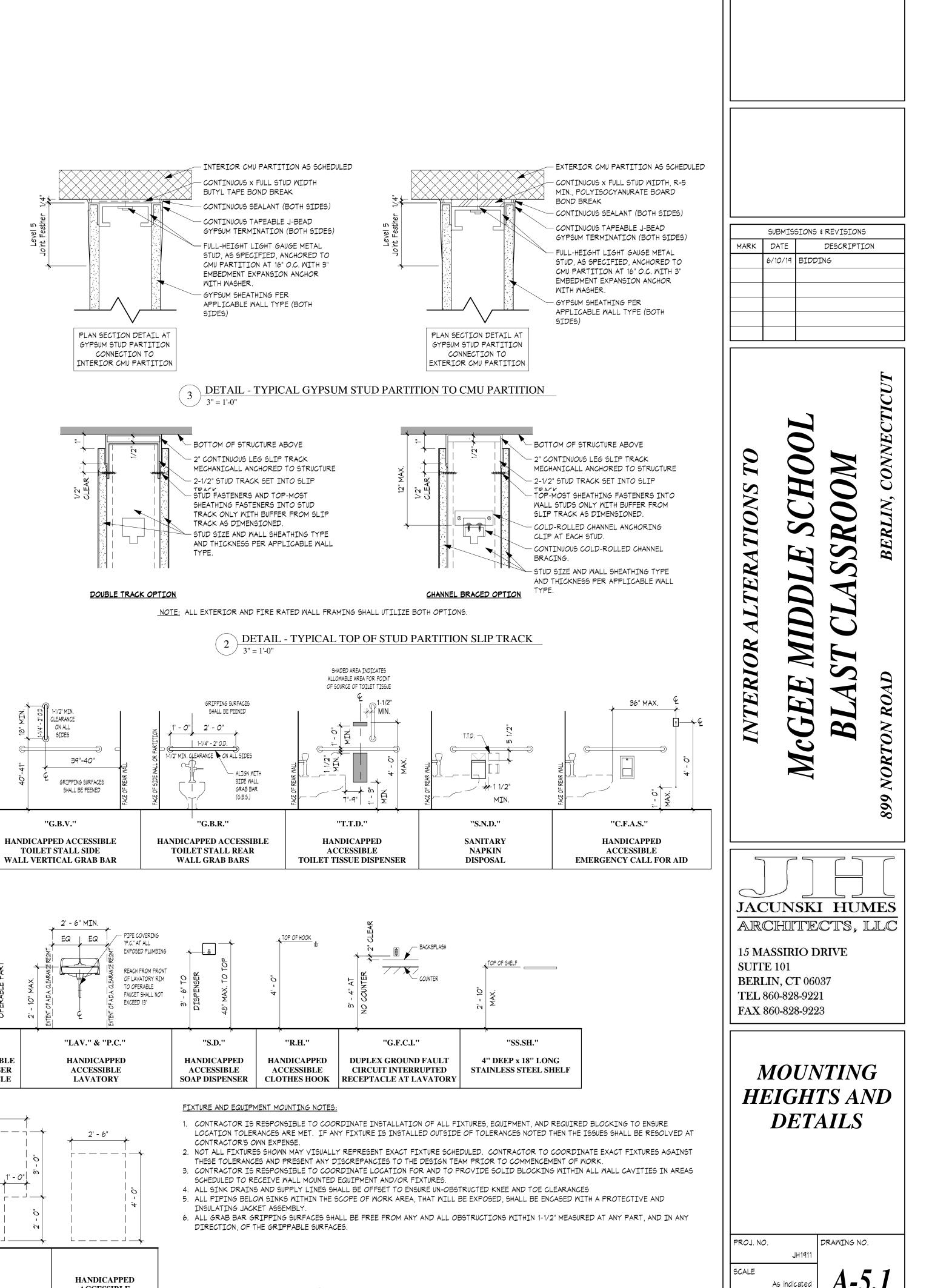
"F.H.M."

FULL-HEIGHT

ACCESSIBLE

MIRRORS

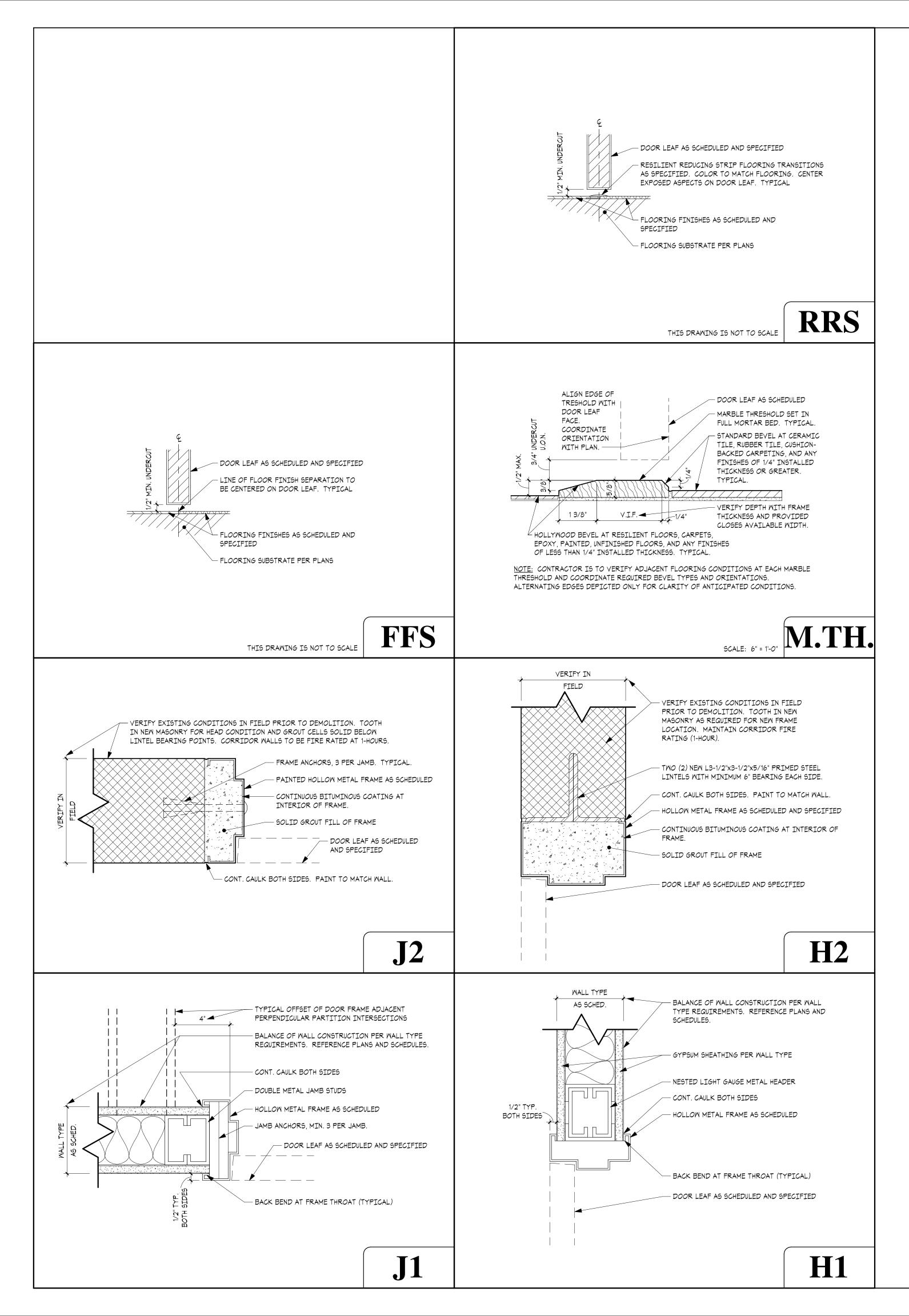




TYPICAL ACCESSIBILITY REQUIREMENTS AND MOUNTING HEIGHTS $(1) \frac{114 \text{ PICAL}}{3/8" = 1'-0"}$

June 10, 2019

DATE



- 1 Kick Plate
- 1 Kick Plate

Hardware Set

- Interior Alterations to McGee Middle School BLAST Classroom Project: 899 Norton Road, Berlin, Connecticut Address: JHA #: 1911

DOOR HARDWARE NOTES:

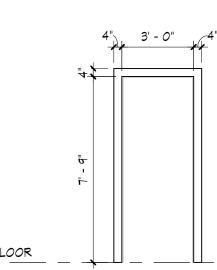
MANUFACTURER TYPES.

INSTALLATIONS.

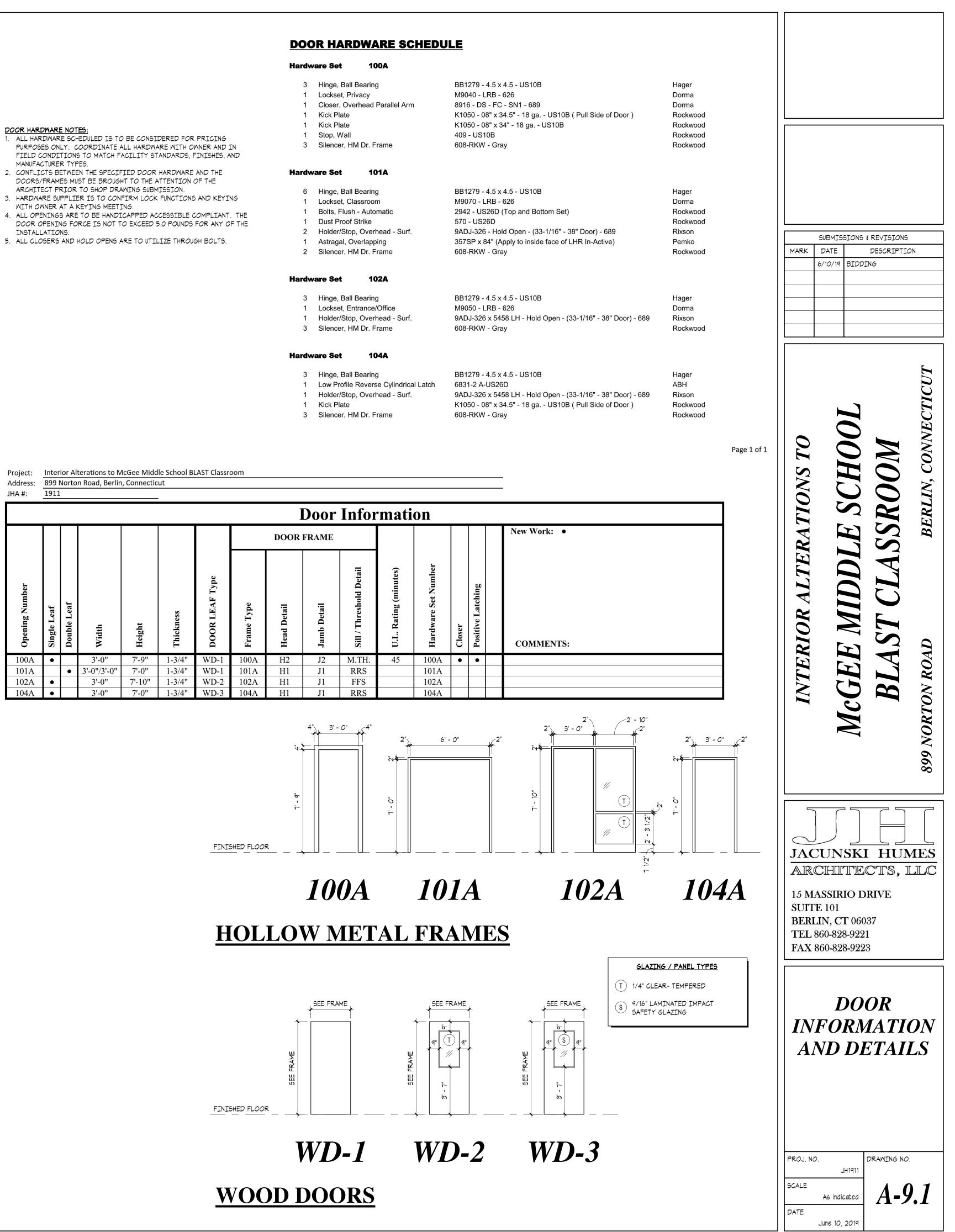
ARCHITECT PRIOR TO SHOP DRAWING SUBMISSION.

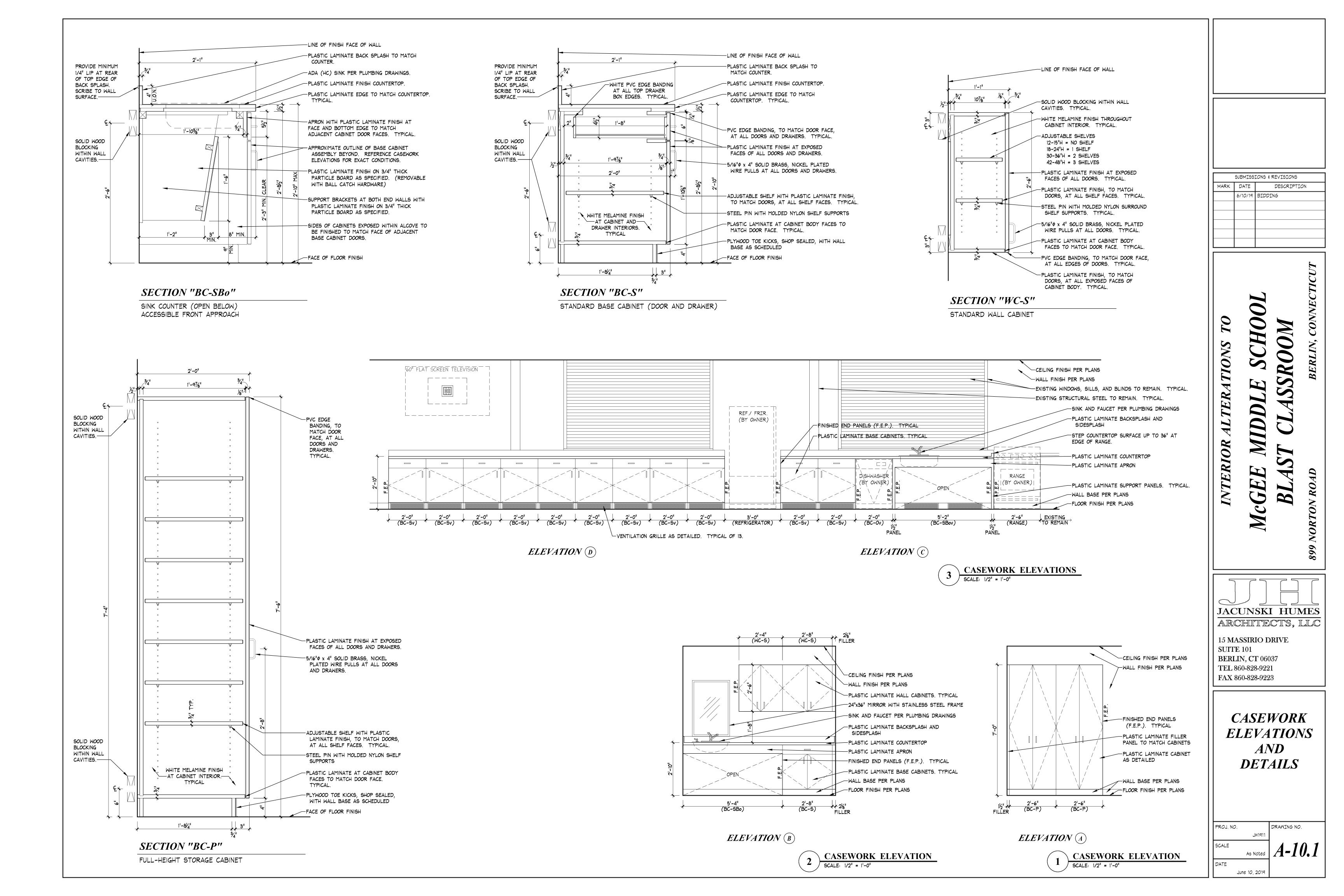
WITH OWNER AT A KEYING MEETING.

| | | | | | | | |] | Door | Infor | 'n |
|-----------------------|-------------|-------------|-------------|--------|-----------|----------------|------------|-------------|-------------|-------------------------|----|
| | | | | | | | | DOOR | FRAME | | |
| Opening Number | Single Leaf | Double Leaf | Width | Height | Thickness | DOOR LEAF Type | Frame Type | Head Detail | Jamb Detail | Sill / Threshold Detail | |
| 100A | ٠ | | 3'-0" | 7'-9" | 1-3/4" | WD-1 | 100A | H2 | J2 | M.TH. | |
| 101A | | • | 3'-0"/3'-0" | 7'-0" | 1-3/4" | WD-1 | 101A | H1 | J1 | RRS | |
| 102A | • | | 3'-0" | 7'-10" | 1-3/4" | WD-2 | 102A | H1 | J1 | FFS | |
| 104A | • | | 3'-0" | 7'-0" | 1-3/4" | WD-3 | 104A | H1 | J1 | RRS | |

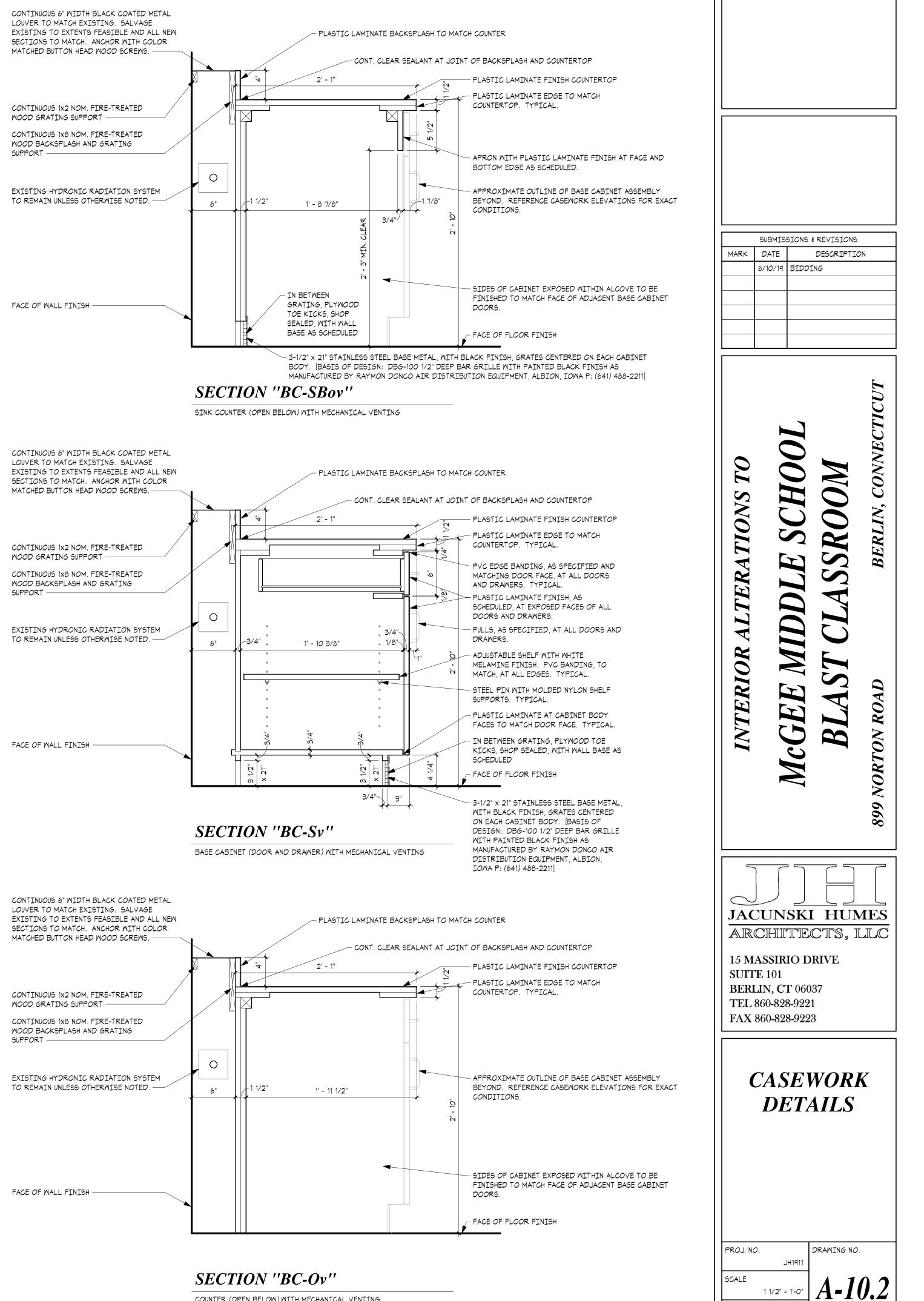


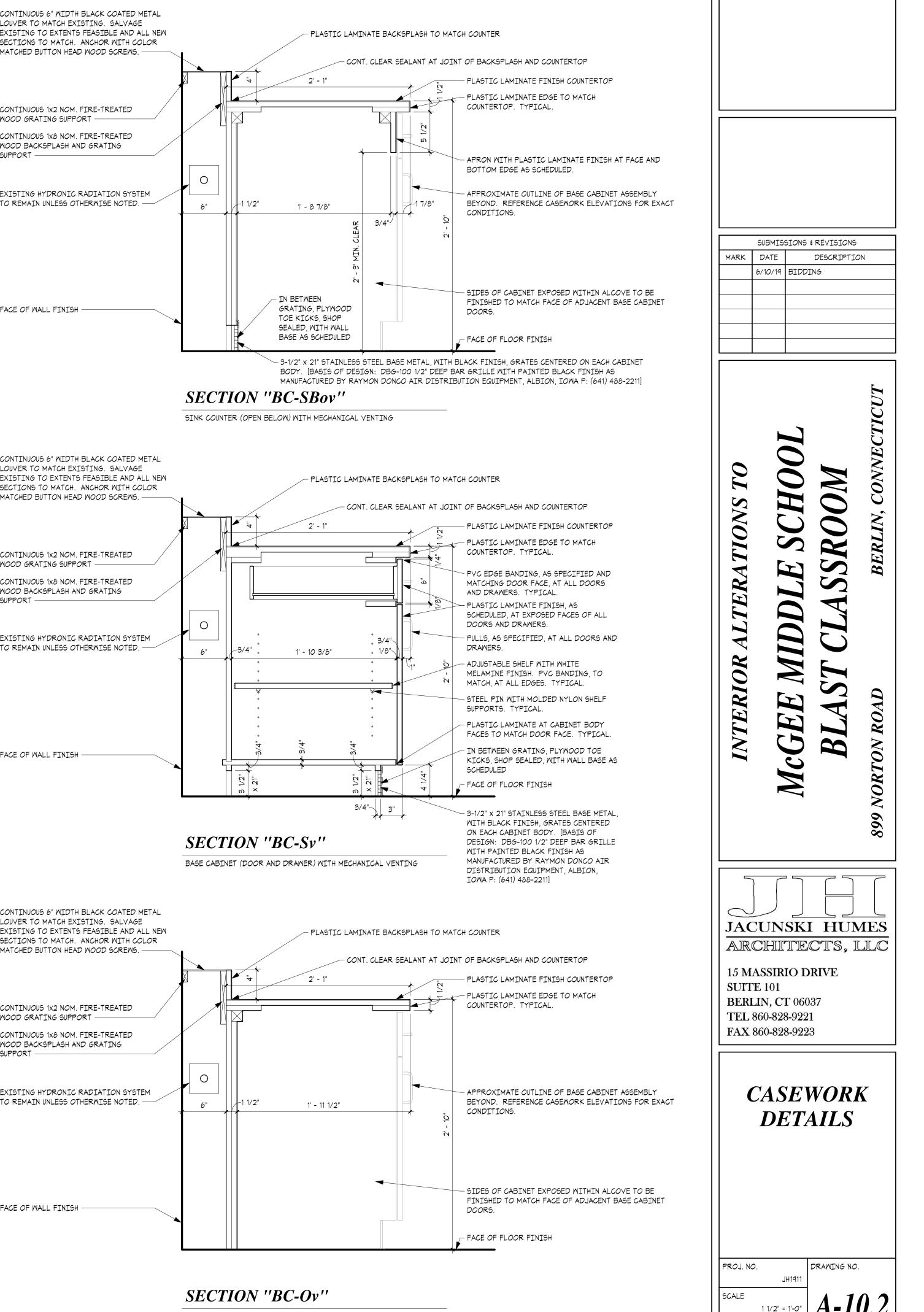
100A

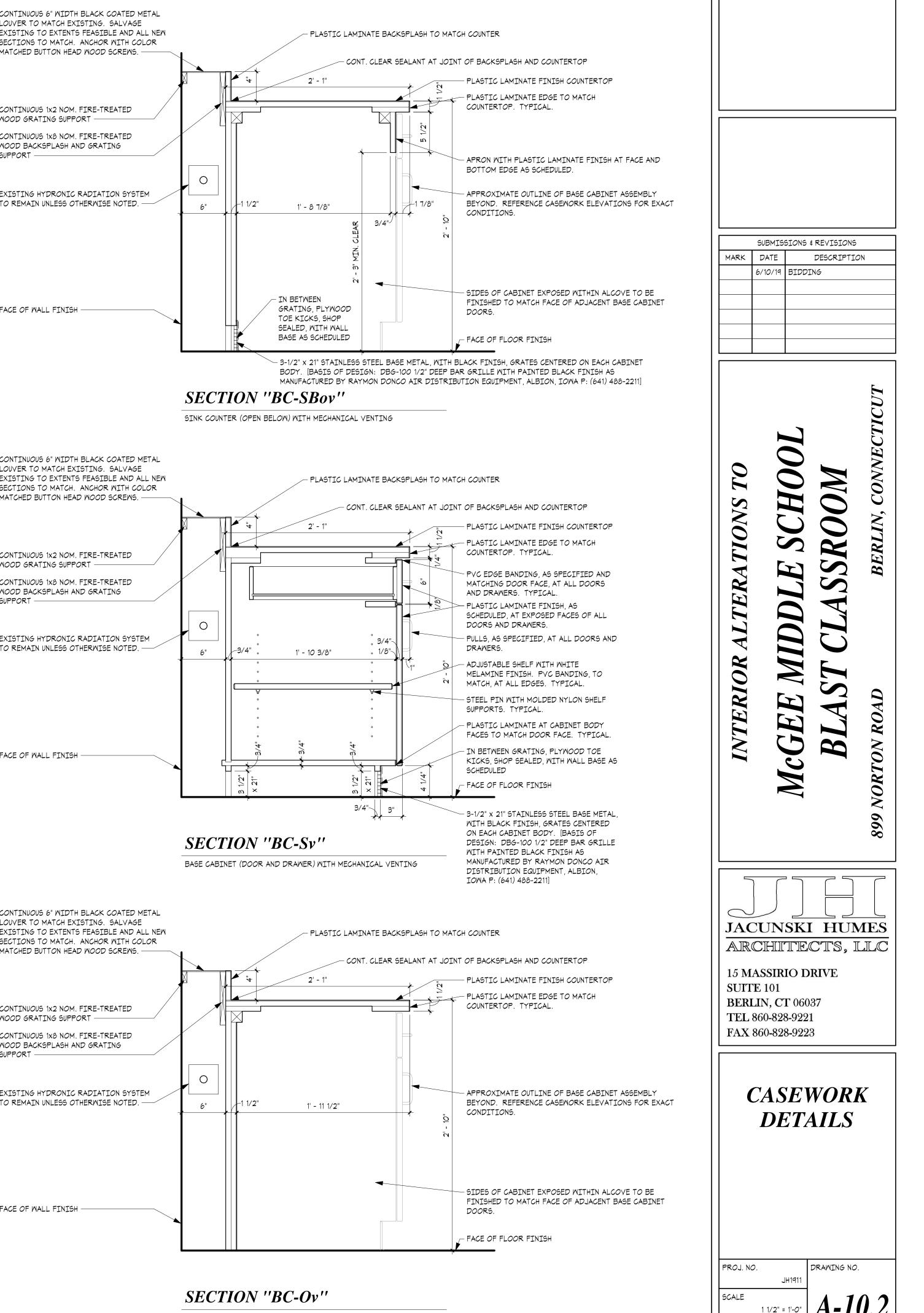












COUNTER (OPEN BELOW) WITH MECHANICAL VENTING

June 10, 2019

DATE

| <u>AI</u> | BREVIATIONS |
|-------------|-------------------------------------|
| AFF | ABOVE FINISHED FLOOR |
| CW | COLD WATER |
| HW | HOT WATER |
| со | CLEANOUT |
| ECO | CLEANOUT, EXISTING |
| СР | CIRCULATOR PUMP |
| CND | CONDENSATE DRAIN PIPING |
| EX., EXIST. | EXISTING |
| FD | FLOOR DRAIN (ADD "E" FOR EXISTING) |
| HW | HOT WATER |
| НВ | HOSE BIBB |
| НС | HANDICAPPED ACCESSIBLE |
| LAV | LAVATORY |
| SD | SHOWER DRAIN |
| SAN | SANITARY |
| T&P | TEMPERATURE & PRESSURE RELIEF VALVE |
| V | VENT |
| VTR | VENT THRU ROOF |
| W | WASTE |
| WC | WATER CLOSET |
| WCO | WALL CLEANOUT |

| PLUM | BING SYMBOL LEGEND | PLUMBING | G PIPING SYMBOL LEGEND |
|---|---|---|-------------------------------------|
| ۶ −−-j | BALL VALVE | ، | COLD WATER |
| , , , , , , , , , , , , , , , , , , , | CHECK VALVE | ، | HOT WATER |
| بے ج | HOSE BIBB (HB) OR DRAIN VALVE | ب | VENT PIPING |
| €5 | PIPE ELBOW DOWN OR DROP | s — s | SANITARY OR WASTE ABOVE GRADE |
| , ○ | PIPE ELBOW UP | → —ss — → | SANITARY OR WASTE BURIED |
| ۱ — — ۲ | WALL CLEANOUT | ، — _ c , | CONDENSATE DRAIN (ABOVE GRADE) |
| ∠ | PIPE CAP | ، المحالي محالي محالي محالي محالي محالي محالي محالي محالي محال | PUMPED CONDENSATE DRAIN |
| ∞ | P-TRAP | ¥//////// | PIPING - DEMOLITION (TO BE REMOVED) |
| IKWHI | WATER METER ASSEMBLY | <u>۲</u> | PIPING - EXISTING TO REMAIN |
| \bigotimes | FLOOR DRAIN (FD) | • | CONNECT TO EXISTING |
| S | ADA ACCESSIBLE FIXTURE | | |
| XX | FIXTURE DESIGNATION (REFER TO SCHEDULE) | | |

- CONDITIONS.
- NECESSARY.

- NOTED.

PLUMBING RENOVATION/ DEMOLITION GENERAL NOTES

1. BEFORE SUBMITTING BID, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS AND THE DOCUMENTS OF OTHER TRADES UNDER WHICH THEIR WORK WILL BE ACCOMPLISHED. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO BECOME FAMILIAR WITH THE EXISTING

2. THE CONTRACTOR SHALL COORDINATE AND SCHEDULE ANY DAILY INTERRUPTIONS OR SHUTDOWNS OF THE EXISTING SYSTEMS IN ADVANCE WITH OWNER'S DESIGNATED REPRESENTATIVE. THIS SHALL INCLUDE SERVICES INTERRUPTIONS, CONNECTIONS AND DISRUPTIONS EFFECTING OTHER TRADES (MECHANICAL AND ELECTRICAL). INCLUDE ALL WORK REQUIRED TO ALLOW PHASED CONSTRUCTION WHERE

3. DEMOLITION DRAWINGS ARE STRICTLY DIAGRAMMATIC AND SHOW GENERAL ARRANGEMENT AND APPROXIMATE LOCATION OF EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT. IT IS NOT THE INTENT OF THESE DRAWINGS TO SHOW ALL EQUIPMENT, PIPING OR CONDUIT TO BE REMOVED. EQUIPMENT NOT BEING REUSED SHALL BE REMOVED, INCLUDING ALL ASSOCIATED HANGERS, SUPPORTS, PIPES, CONDUITS, WIRES, AND CONTROLS BACK TO THE POINT OF ORIGIN.

4. REFER TO THE ARCHITECTURAL DEMOLITION DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS. THE FULL EXTENT OF THE DEMOLITION AND RECONSTRUCTION SCOPE OF WORK SHALL BE DETERMINED BY THE ENTIRE SET OF BID DOCUMENTS.

5. THE CONTRACTORS SHALL COORDINATE THE DEMOLITION SCOPE OF WORK WITH THE GENERAL CONTRACTOR'S OR CONSTRUCTION MANAGER'S PHASING SCHEDULE PRIOR TO COMMENCEMENT OF WORK. CARE MUST BE TAKEN SO AS NOT TO DESTROY, REMOVE OR DEMOLISH ANY EQUIPMENT, APPURTENANCES OR DEVICES INTENDED TO REMAIN. PROVIDE TEMPORARY SERVICES AND SYSTEM MODIFICATIONS TO ACCOMMODATE CONTINUOUS OPERATION OF ACTIVE SYSTEM.

6. THE LOCATION OF EXISTING PLUMBING SYSTEM SHOWN ON FLOOR PLANS, IS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCEMENT OF CONSTRUCTION, EXACT QUANTITY AND LOCATION(S) OF EXISTING EQUIPMENT, PIPING, PLUMBING FIXTURES TO BE REMOVED AND ADJUST AS NECESSARY.

7. ALL EQUIPMENT, PLUMBING FIXTURES AND ASSOCIATED PIPING INDICATED TO BE REMOVED OR RELOCATED, SHALL BE DISCONNECTED AND REMOVED, INCLUDING HANGERS AND OTHER COMPONENTS, UP TO NEAREST EXISTING ACTIVE MAIN OR BRANCH LINE AND CAPPED AS CLOSE TO THE ACTIVE LINE AS POSSIBLE. NO EQUIPMENT, PIPING, OR CONDUIT SHALL BE ABANDONED IN PLACE, UNLESS SPECIFICALLY

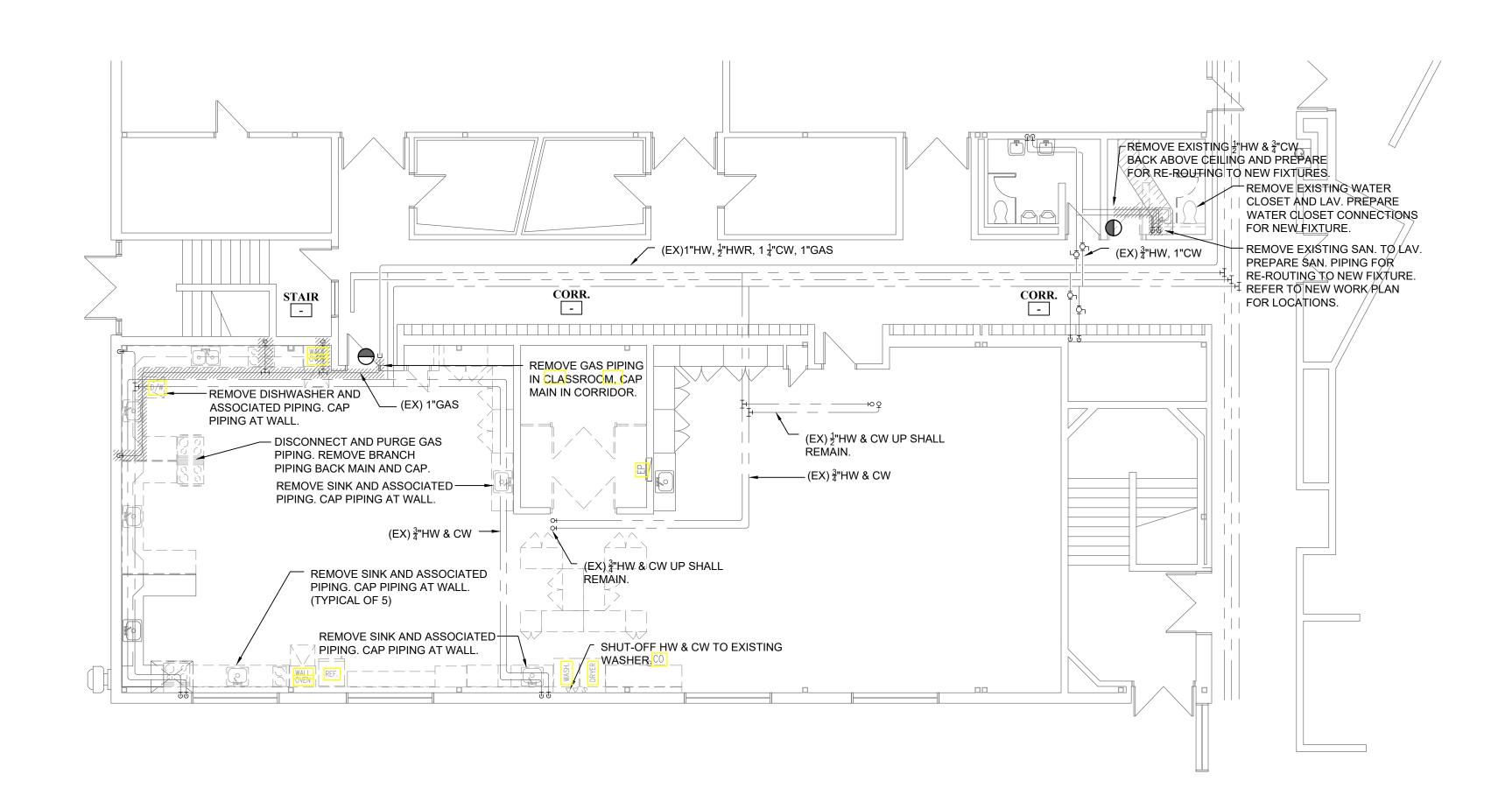
8. ALL SYSTEMS TO BE REMOVED SHALL BE REMOVED BACK TO THE POINT OF SOURCE. THE CONTRACTOR SHALL VERIFY WHICH SYSTEMS MUST REMAIN ACTIVE TO SERVE ADJACENT SPACES DURING CONSTRUCTION. SHOULD THE CONTRACTOR ENCOUNTER, DURING DEMOLITION OF EXISTING WALLS OR CHASES, ANY PIPING OR CONDUIT WHICH MUST REMAIN ACTIVE, HE SHALL IMMEDIATELY GIVE NOTICE TO THE ENGINEER, GENERAL CONTRACTOR OR CONSTRUCTION MANAGER.

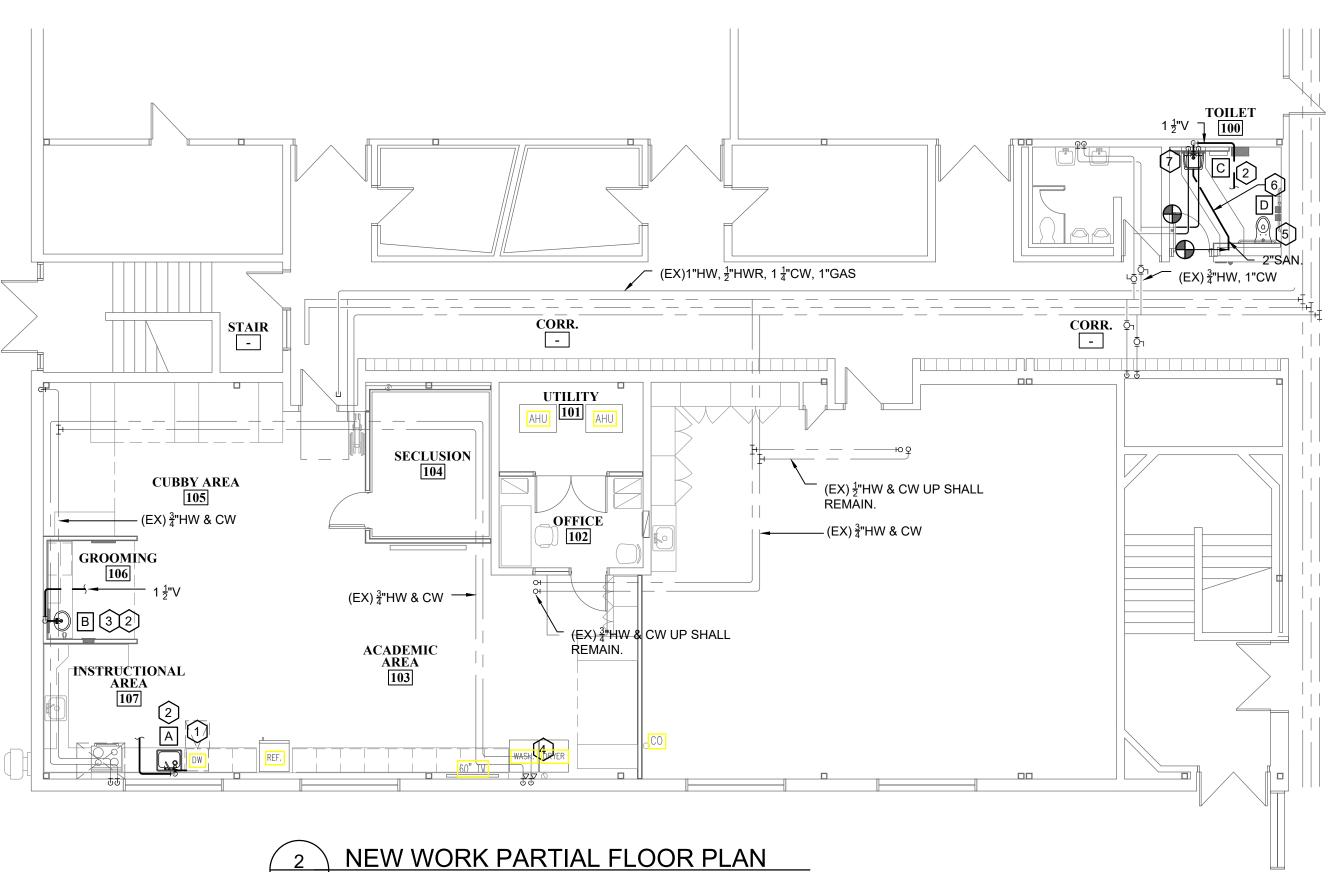
9. ALL SALVAGEABLE MATERIALS OR EQUIPMENT TO BE REMOVED SHALL BE TURNED OVER TO THE OWNER AT THE END OF EACH DAY. ITEMS REMOVED AND NOT REUSED OR DISCLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE TRADE CONTRACTOR AND SHALL BE TRANSPORTED FROM THE SITE. SITE STORAGE OF REMOVED ITEMS WILL NOT BE PERMITTED.

10. PROPERLY DISPOSE OF ALL DEMOLISHED EQUIPMENT IN COMPLIANCE WITH CODES AND REGULATIONS; THIS APPLIES TO HAZARDOUS MATERIALS AND CONTAMINATED ITEMS TO BE DEMOLISHED.

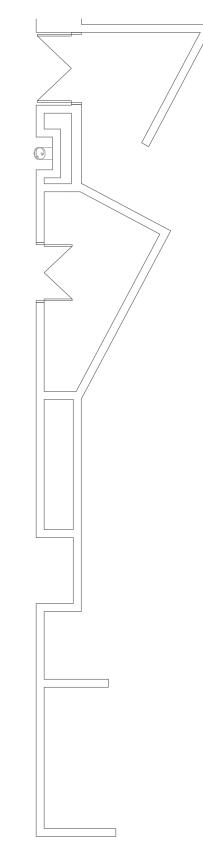
11. THE PLUMBING CONTRACTOR SHALL VERIFY EXACT LOCATION AND INVERT ELEVATION OF EXISTING BURIED SANITARY, WASTE OR STORM PIPING PRIOR TO ANY EXCAVATION FOR NEW PIPING CONNECTION AND SHALL NOTIFY ENGINEER OF ANY PROBLEMS.

| INTERIOR ALTERATIONS TO INTERIOR ALTERATIONS TO MCGEE MIDDLE SCHOOL BLAST CLASSROOM 899 NORTON ROAD BERLIN, CONNECTICUT | | AECHANICA STRUCTUL 750 OLD SU ROCKY H P: (860 F: (860 | DESCRIPTIC | CAL, EERING |
|--|----------------------------|---|-------------|---------------------|
| $IM = \frac{1}{1000} \frac{1}$ | R ALTERATIONS TO | MDDLE SCHOOL | CLASSROOM | BERLIN, CONNECTICUT |
| ARCHITECTS, LLC | | | | Second Second Role |
| | PROJ. NO. SCALE DATE | JH1911 As Noted ne 10, 2019 | drawing no. | _ |

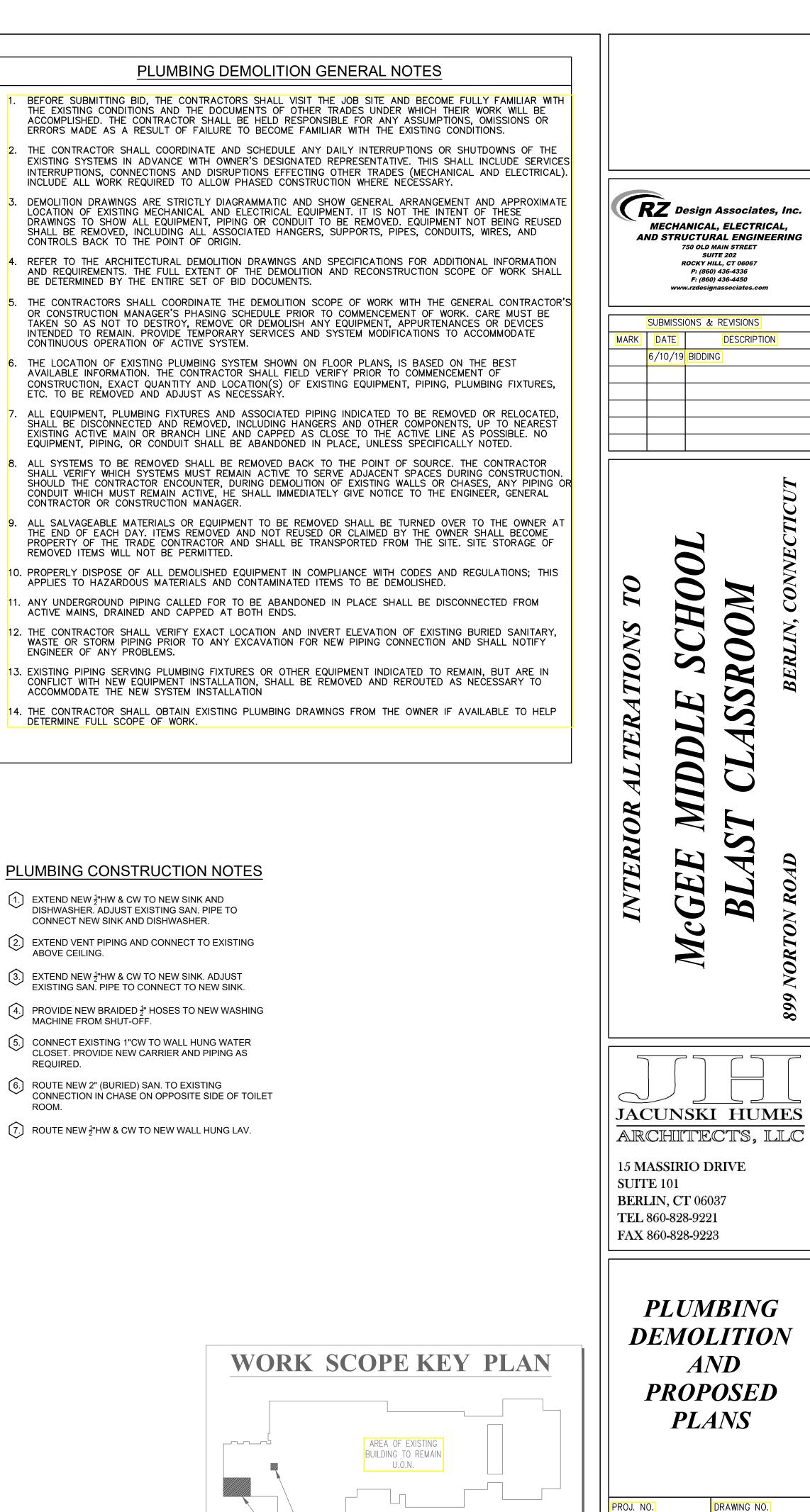








- REQUIRED.
- ROOM.



TOILET RENOVATION AREA

-CLASSROOM RENOVATION AREA

JH1911 SCALE As Noted DATE June 10, 2019 *P-1.0*

| | | | | | | r | LUMBING F | TATURE 30 | | ULL | | | | - | | | | _ | | |
|--------|--|--------------------------|-----------------------------|--------------------------|----------|------------------------|------------------------------------|--------------|-------|-----|----------------|------|------|--------------------|----|-----------------------------|----------------|--|---|--|
| SYMBOL | DESCRIPTION | ТҮРЕ | FIXTUR | E MODEL | SIZE | ТҮРЕ | FAUCET MANUFACTURER | MODEL | s/w | v | SERVICES CW | нw | тw | DESCRIPTION / TYPE | 1 | ACCESSORIES MANUFACTURER | MODEL | REMARKS | | |
| | | ITPE | MANUFACIURER | MODEL | SIZE | TTPE | MANUFACTURER | MODEL | 5/ VV | v | CW | HVV | 1 VV | | | | | | | |
| | | | | | | | | | | | | | | DRAIN | 1) | MCGUIRE MANUF. | 155WC | | | |
| Α | HANDICAPPED ACCESSIBLE LAVATORY | TOP MOUNTED (COUNTER) | KOHLER CO. | K-2699-4-0 (BRYANT) | 0.5 GPM | MANUAL SINGLE LEVER | AMERICAN STANDARD AMERICA, INC. | 7385.050-002 | 2" | 2" | 1/2" | 1/2" | - | - | 2) | - | - | VITREOUS CHINA | | |
| | | | | | | | | | | | - | 3) | - | - | | | | | | |
| | | | | | | | | | | | | | | DRAIN | 1) | MCGUIRE MANUF. | 155WC | | | |
| В | HANDICAPPED ACCESSIBLE LAVATORY | WALL MOUNTED | KOHLER CO. | K-1729-0 (CHESAPEAKE) | 0.5 GPM | MANUAL SINGLE LEVER | AMERICAN STANDARD AMERICA, INC. | 7385.050-002 | 2" | 2" | 1/2" | 1/2" | - | PIPE COVERING | 2) | TRUEBRO LAVGUARD 2 | 103 E-Z | VITREOUS CHINA, RIM MOUNTED AT 34" ABOVE FINISHED FLOOR | | |
| | | | | | | | | | | | | | | | | - | 3) | - | - | |
| | | | | | | | | | | | | | | DRAIN | 1) | ELKAY | D1125 (DAYTON) | | | |
| С | HANDICAPPED ACCESSIBLE KITCHEN SINK | TOP MOUNTED (COUNTER) | ELKAY | GE12521L-3 (DAYTON) | 1.5 GPM | MANUAL | ELKAY | LKD2439C | 2" | 2" | 1/2" | 1/2" | - | - | 2) | - | - | PROVIDE ADDITIONAL 1/2" CW SHUT-OFF VALVE UNDER SINK FOR ACCESSORY SUPPLY | | |
| | | | | | | | | | | | | | | - | 3) | - | - | | | |
| | | | | | | | | | | | | | | SEAT | 1) | KOHLER CO. | K-4731-GC-0 | | | |
| D | HANDICAPPED ACCESSIBLE WATER CLOSET | WALL MOUNTED | KOHLER CO. | K-4325-0 (KINGSTON) | 1.28 GPF | MANUAL FLUSH VALVE | KOHLER | K-13517-CP | 4" | 2" | 1" | - | - | - | 2) | - | - | VITEROUS CHINA, TOP OF SEAT MOUNTED A 18" ABOVE FINISHED FLOOR | | |
| | | | | | | | | | | | | | | - | 3) | - | - | | | |
| OTES: | CAPPED ACCESSIBLE FIXTURES (ADA | | ICC/ANSI A117 1-2009 REQUIR | EMENTS | | | | | | | | | | | | | | | | |

| M AND SU MARK | ECHANICA STRUCTU 750 OLD SU ROCKY I P: (86 F: (86 www.rzdesi | Associate | CAL, EERING |
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| INTERIOR ALTERATIONS TO | McGEE MIDDLE SCHOOL | BLAST CLASSROOM | 899 NORTON ROAD BERLIN, CONNECTICUT |
| AIRC 15 MAS SUITE BERLIN TEL 86 | HITTE SSIRIO I | 037 21 | |
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PLUMBING SPECIFICATIONS

IT IS THE INTENT OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.

WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS SPECIFIED AND AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE FOLLOWING SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.

ITEMS AND SERVICES NOT SHOWN ON THE DRAWINGS OR STATED IN THE SPECIFICATIONS, BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.

DRAWINGS ARE DIAGRAMMATIC AND ARE NOT TO BE SCALED. DRAWINGS INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR.

COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION.

CONNECTICUT CODES AND STANDARDS: 2015 INTERNATIONAL BUILDING CODE 2015 INTERNATIONAL EXISTING BUILDING CODE 2015 INTERNATIONAL MECHANICAL CODE 2017 NATIONAL ELECTRICAL CODE (NFPA 70)

WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIAL, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, AND ADMINISTRATIVE TASKS/DUTIES REQUIRED TO COMPLETE AND MAKE OPERABLE WORK SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN.

STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

COORDINATION WITH ALL OTHER TRADES.

SHOP DRAWINGS

CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ENGINEER INITIAL REVIEW AND APPROVAL, REVISED IF REQUIRED AND RESUBMITTED AS PER ENGINEER'S COMMENTS PRIOR TO CONSTRUCTION.

ACCEPTANCE OF DEVIATIONS OR SUBSTITUTIONS FROM BASE SPECIFIED ITEMS OR EQUIPMENT SHALL BE AT THE ENGINEERS DISCRETION. ANY CHANGES REQUIRED FOR ACCOMMODATION SHALL BE AT NO ADDITIONAL COST.

OWNER'S MANUAL AND AS BUILT DRAWINGS

UPON COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE AN OWNER'S MANUAL WITH AS-BUILT DRAWINGS REFLECTING INSTALLED CONDITIONS.

PURCHASED.

AS-BUILT DRAWINGS SHALL CONSIST OF FIELD MARK-UPS TO THE CONSTRUCTION DRAWINGS AND INCLUDE ANY ADDITIONAL DETAILS TO CLEARLY REFLECT INSTALLED CONDITIONS. ANY ISSUED OR SUPPLEMENTAL SKETCHES OR DIRECTIVES SHALL BE INCORPORATED INTO THE FINAL CONSTRUCTION MARK-UPS.

CONTRACTOR SHALL MAINTAIN, ON-SITE, A FIELD MARK-UP SET OF DOCUMENTS WHICH SHALL BE KEPT CURRENT WITH ANY CHANGES FROM THE ORIGINAL CONTRACT DOCUMENTS. THESE MARK-UPS ARE TO BE PROVIDED AS AS-BUILT DRAWINGS FOR COMPARISONS.

BASES, HANGERS AND SUPPORTS

THE CONTRACTOR SHALL PROVIDE, OR CAUSE TO BE PROVIDED BY ANOTHER CONTRACTOR, ALL REQUIRED BASES AND SUPPORTS FOR PIPING AND EQUIPMENT PROVIDED UNDER THESE SPECIFICATIONS.

PROVIDE ADJUSTABLE CLEVIS HANGERS FOR ALL SINGLE RUN PIPING. WHERE REQUIRED, OVERSIZE TO ACCOMMODATE INSULATION TO PASS THROUGH. PROVIDE INSULATION SHIELDS. WHERE POSSIBLE, GROUP PIPING TO ALLOW TRAPEZE HANGERS TO BE USED.

ALL PIPING PASSING THROUGH WALLS AND FLOORS SHALL BE SLEEVED. THE SLEEVES SHALL HAVE AN INSIDE DIAMETER 1" LARGER THAN THE PIPE AND INSULATION, IF INSULATED. INSULATION SHALL PASS CONTINUOUS THROUGH THE SLEEVE.

PIPE SEALS AND FIRE-STOPS

SEAL ALL PIPING PASSING THROUGH FIRE AND/OR SMOKE RATED PARTITIONS, WALLS AND FLOORS WITH A UL LISTED, APPROVED AND TESTED FIRE AND/OR SMOKE SEALING MATERIAL EQUIVALENT TO THE RATING OF THE WALL, PARTITION OR FLOOR. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR COMPATIBILITY WITH WALL AND FLOOR CONSTRUCTION.

SEALING MATERIAL

GENERAL CONDITIONS OF THE CONTRACT

GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED.

THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES, EQUIPMENT AND

THE CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED AND PAY ALL APPLICABLE FEES. INCLUDED SHALL BE ANY UTILITY COST ASSOCIATED WITH ANY NEW OR MODIFIED SERVICES.

CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.

PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT'S GENERAL CONDITIONS AND IN COORDINATION WITH ALL OTHER TRADES. ALL WORK SHALL BE DONE IN CONFORMANCE AND PROVISIONS OF ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND LAWS AS REFERENCED OR STATED.

2015 INTERNATIONAL ENERGY CONSERVATION CODE WITH AMENDMENTS

2015 INTERNATIONAL PLUMBING CODE

1CC/ANSI A117.1-2009 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

CONTRACTOR IS REQUIRED TO OBTAIN COMPLETE SETS OF THE CONTRACT DOCUMENTS FOR

THE OWNER'S MANUAL SHALL CONSIST OF ALL DOCUMENTATION PROVIDED AS SHOP DRAWINGS, MANUALS PACKED WITH EQUIPMENT AND COMPLETE PARTS BREAKDOWN WITH PART NUMBERS AND DIAGRAMS. THE OWNER'S MANUALS SHALL BE IN A THREE RING BINDER. PROVIDE NAMES AND PHONE NUMBERS OF SUPPLY HOUSES WHERE PARTS MAY BE

PROVIDE ALL ANCHORS, INSERTS AND BEAM CLAMPS REQUIRED FOR HANGERS AND SUPPORTS. IF ADDITIONAL STRUCTURAL MEMBERS OR SUPPORTS ARE REQUIRED, THE CONTRACTOR IS TO COORDINATE WITH THE STRUCTURAL CONTRACTOR FOR PROVISION OF THESE MEMBERS. ALL PIPING AND EQUIPMENT IS TO BE SECURELY FASTENED TO THE BUILDING STRUCTURE IN AN ACCEPTABLE MANNER.

FOR INTERIOR PARTITIONS, WALLS AND FLOORS, SLEEVES SIZED TO ALLOW INSULATION TO PASS THROUGH CONTINUOUS WITH A MAXIMUM 1" ANNULAR SPACE BETWEEN THE INSULATION AND SLEEVE. SLEEVES TO BE CUT SMOOTH AND INSTALLED FLUSH WITH FINISHED WALLS AND 2" ABOVE FINISHED FLOORS. FILL THE ANNULAR SPACE WITH UL

EQUIPMENT ACCESSIBILITY

LOCATE ALL EQUIPMENT WHICH MUST BE SERVICED, OPERATED OR MAINTAINED IN FULLY ACCESSIBLE POSITION WITH ADEQUATE CLEARANCES TO PROVIDE SERVICE OR REPAIR.

ACCESS DOORS OR PANELS IN WALLS, CEILINGS OR FLOORS SHALL BE FIELD COORDINATED AND INSTALLED FOR ACCESS TO CONCEALED VALVES, EQUIPMENT OR DEVICES.

CLEANING AND PROTECTION AGAINST FOREIGN MATTER

THE JOBSITE SHALL BE KEPT CLEAN AT ALL TIMES. CAP EXPOSED PIPING AND COVER FLOOR DRAINS TO INSURE ADEQUATE PROTECTION AGAINST THE ENTRANCE OF FOREIGN MATTER.

AT COMPLETION OF THE PROJECT, ALL EQUIPMENT, FIXTURES, ETC. SHALL BE CLEANED. OPERATING INSTRUCTIONS

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

GUARANTEES

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

PLUMBING PIPING INSULATION

PROVIDE 1" GLASS FIBER INSULATION FOR ALL NEW COPPER PIPING (HOT AND COLD WATER), INCLUDES INSULATION FOR FITTINGS AND VALVES. INSULATION TO BE AS MANUFACTURED BY KNAUF, MANVILLE, OWENS-CORNING OR CERTAIN-TEED.

INSULATION TO HAVE A "K" VALUE OF 0.24 AT 75°F, FLAME SPREAD/SMOKE OF 5/50, MAX. 850°F RATING, VAPOR BARRIER WHITE KRAFT PAPER WITH GLASS FIBER YARN BONDED TO ALUMINIZED FILM.

AT ALL FITTINGS AND VALVES PROVIDE PRE-MOLDED PVC JACKET BY ZESTON.

BEFORE INSTALLING INSULATION, ALL REQUIRED PIPING IS TO BE TESTED AND APPROVED. INSULATION IS TO PASS CONTINUOUSLY THROUGH HANGERS, WALLS, SLEEVES AND OTHER PIPE PENETRATIONS.

PLUMBING PIPING

CISPI 301.

JURISDICTION.

PIPING MATERIAL SHALL BE AS FOLLOWS:

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

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

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

BALL VALVES SHALL BE BRONZE, TWO PIECE, FULL PORT, EXTENDED LEVER HANDLE FOR INSULATION, CLASS 150-400 PSI WOG, AS MANUFACTURED BY MILWAUKEE, NIBCO OR APOLLO. NO PIPING SHALL BE COVERED UNTIL TESTED AND APPROVED BY THE AUTHORITIES HAVING

INSTALL PIPING TO ALLOW FOR EXPANSION AND CONTRACTION WITHOUT STRESSING PIPE, JOINTS OR CONNECTED EQUIPMENT.

CONCEALED PIPING AND ACCESSORIES SHALL BE ARRANGED TO USE THE MINIMUM AMOUNT OF ACCESS DOORS AND PANELS.

PIPING SHALL BE RUN CONCEALED IN FURRED SPACES, CHASES, WALLS, ETC, CONTRACTOR SHALL OBTAIN PERMISSION TO RUN EXPOSED PIPING.

PROVIDE ISOLATION AND SHUT-OFF VALVES AT ALL BRANCH LINES AND EQUIPMENT.

PROVIDE LISTED AND APPROVED DIELECTRIC FITTINGS WHEN JOINING DISSIMILAR METALS.

RUN ALL SANITARY AND WASTE PIPING AT A MINIMUM OF 1/8" PER FOOT FOR PIPING. SLOPE VENT PIPING TO DRAIN.

PIPE HANGERS SHALL BE PLACED ADJACENT TO MOTOR DRIVEN EQUIPMENT. HANGERS AND SUPPORTS SHALL BE AS FOLLOWS:

COPPER PIPING

1/2" TO 1-1/4" AT MAXIMUM 6'-0" SPACING 1-1/2" TO 3" AT MAXIMUM 10'-0" SPACING

CAST IRON PIPING

1-1/2" TO 2" AT MAXIMUM 10'-0" SPACING 2-1/2" AND ABOVE AT MAXIMUM 5'-0" SPACING

WATER PIPING IS TO BE FLUSHED AND DISINFECTED IN ACCORDANCE WITH LOCAL AND STATE HEALTH REGULATIONS. AFTER FLUSHING AND DISINFECTING, THE WATER IS TO BE TESTED BY THE CONTRACTOR THROUGH AN INDEPENDENT LAB WITH A WRITTEN REPORT.

ALL NEW WATER, SANITARY, WASTE, AND VENT PIPING SHALL BE PRESSURE TESTED AS FOLLOWS:

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

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

PLUMBING PIPING SPECIALTIES

CLEANOUTS IN INTERIOR FINISHED FLOORS SHALL HAVE A CAST IRON BODY WITH ANCHOR FLANGE, THREADED TOP ASSEMBLY AND ROUND GASKETED SCORED COVER. FOR FINISHED FLOORS PROVIDE DEPRESSED COVER TO ACCEPT FLOOR FINISH.

PLUMBING EQUIPMENT AND FIXTURES

ALL PLUMBING EQUIPMENT AND FIXTURES SHALL BE NEW, COMPLETE WITH ALL TRIM AS SPECIFIED. APPROVAL CERTIFICATION BY MASSACHUSETTS IS REQUIRED.

FOR ALL EQUIPMENT AND FIXTURES, INSTALL AS PER MANUFACTURER'S INSTRUCTIONS, AS REQUIRED BY CODE, AND IN COMPLIANCE WITH CONDITIONS FOR CERTIFICATION (IF ANY). RETAIN ALL INFORMATION, MANUALS AND PARTS DIAGRAMS PACKAGED WITH THE UNITS.

COORDINATE ALL RELATED ELECTRICAL WORK AND REQUIRED CONNECTIONS TO ACHIEVE AN OPERATIONAL SYSTEM. VERIFY THAT ELECTRICAL POWER HAS PROPER CHARACTERISTICS.

ALL EQUIPMENT SHALL BE UL TESTED AND APPROVED AND IF APPLICABLE SHALL HAVE NSF CERTIFICATION.

PLUMBING FIXTURES SHALL BE INSTALLED WITH TRIM, INCLUDING BUT NOT LIMITED TO, FAUCETS, CARRIERS, WATER SUPPLIES, SUPPLY STOPS, TRAPS, TAILPIECES, HARDWARE, HANGERS/SUPPORTS, AND FASTENING DEVICES.

PLUMBING FIXTURES AND TRIM SHALL BE OF THE MANUFACTURER LISTED ON THE DRAWINGS OR AN APPROVED EQUAL MEETING THE OPERATIONAL CHARACTERISTICS, FUNCTION, SIMILAR APPEARANCE AND QUALITY OF THE SPECIFIED ITEMS.

FOR ALL EXPOSED PIPING TO FIXTURES, PROVIDE CHROME PLATED PIPES, ESCUTCHEONS AT WALLS, SUPPLY TUBES AND SUPPLY STOPS. DRAIN PIPING SHALL BE MINIMUM 17 GA, CHROME PLATED CAST BRASS, P-TRAPS SHALL HAVE CLEANOUT PLUGS.

SEAL FIXTURES TO WALLS AND FLOOR WITH APPROVED SILICONE SEALANT, COLOR TO MATCH FIXTURE COLOR OR CLEAR.

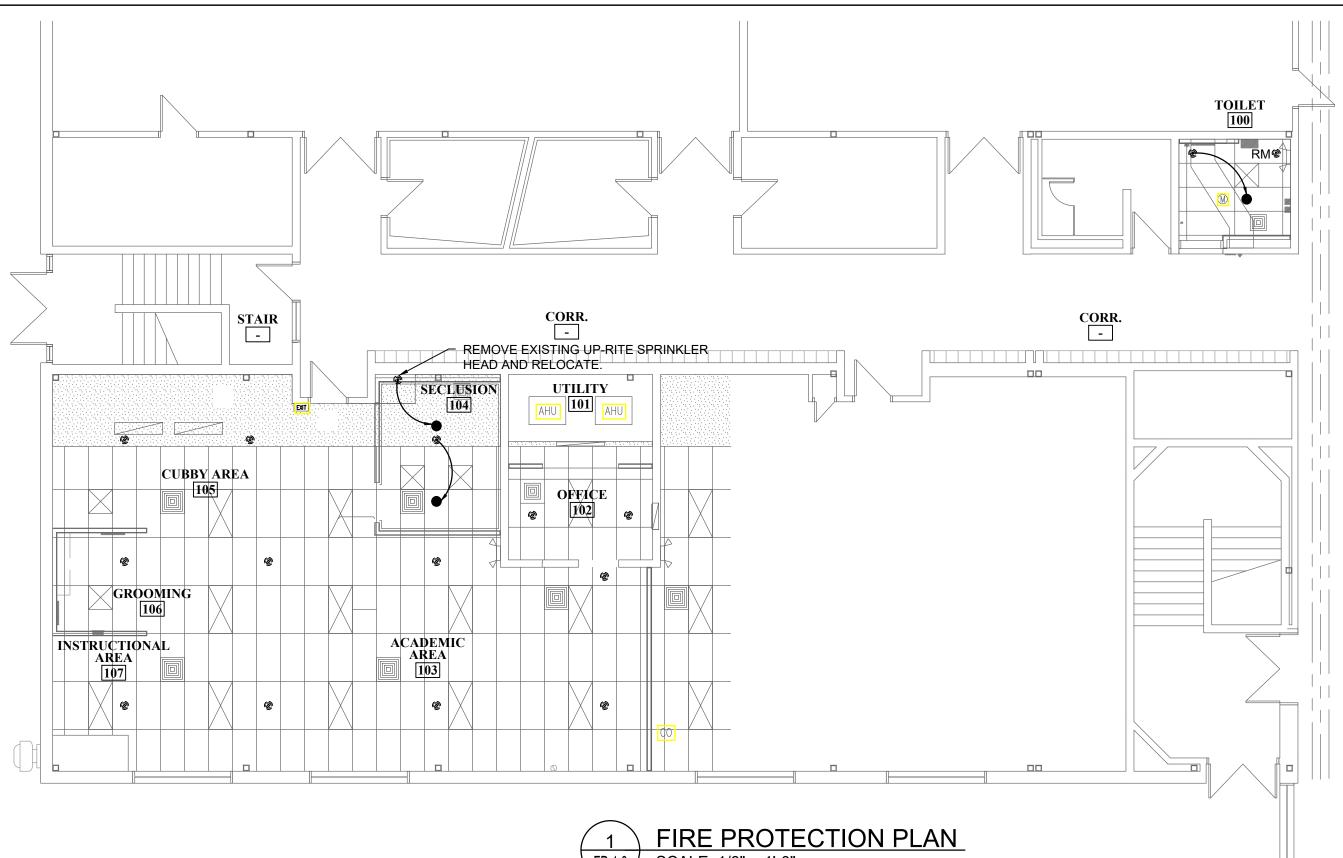
UPON COMPLETION OF INSTALLATION OF PLUMBING EQUIPMENT AND FIXTURES, TEST TO DEMONSTRATE CAPABILITY AND COMPLIANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND CODES. FOR ALL EQUIPMENT, REPAIR OR REPLACE ANY MALFUNCTIONING EQUIPMENT OR FIXTURES AND RETEST.

ADJUST WATER PRESSURES THROUGH VALVES OR STOPS TO OBTAIN PROPER FLOW RATES AND PRESSURES REQUIRED.

UPON COMPLETION OF INSTALLATION OF EQUIPMENT OR FIXTURES, THOROUGHLY CLEAN ALL EXPOSED SURFACES, TRIM AND PIPING, FLUSH STRAINERS AND VERIFY FINAL OPERATION.

PROVIDE ALL WARRANTIES AND GUARANTEES TO THE OWNER WITH ALL NAMES. ESTABLISHED DATES, AND ANY ADDITIONAL INFORMATION REQUIRED FOR ENFORCEMENT.

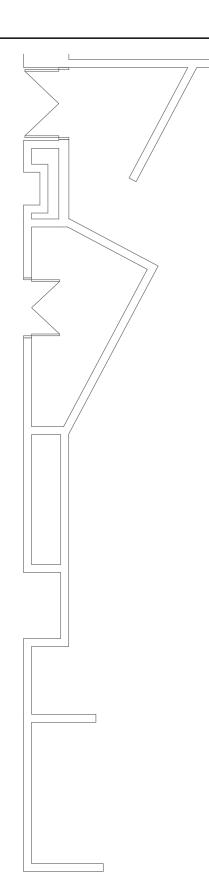
| INTERIOR AL TERATIONS TO MCGEE MIDDLE SCHOOL BLAST CLASSROOM BLAST CLASSROOM BRANN ROAD BERLIN, CONNECTICUT BLAST CLASSROOM | NIDDLE MIDDLE ST CLASS | AN | MECHA ND STRL 7 R | NICAL JCTUR 50 OLD IN SUI 20CKY HI P: (860) F: (860) F: (860) F: (860) ONS & | REVISIONS | com |
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| INTER INTER MCGEE BLA | NOLUNIA Son JACUNSKI HUMES ARCHITTECTS, LLC 15 MASSIRIO DRIVE SUITE 101 BERLIN, CT 06037 TEL 860-828-9221 | IOR ALTERATIONS TO | | MIDDLE JCHUUL | ST CLASSROOM | BERLIN, CONNECTICUT |
| | ARCHITTECTS, LLC 15 MASSIRIO DRIVE SUITE 101 BERLIN, CT 06037 TEL 860-828-9221 | INTER | | 5 | BLAS | 899 NORTON ROAD |





FIRE PROTECTION LEGEND

| | REMOVE EXT'G SPRINKLER; INSTALL CONCEALED SPRINKLER IN NEW LOCATION WITH ARM-OVER |
|------|--|
| @ RM | REMOVE EXISTING SPRINKLER |
| ଡ | EXT'G CONCEALED SPRINKLER - TO REMAIN |
| КZ | EXISTING SIDEWALL SPRINKLER - TO REMAIN |
| • | NEW CONCEALED PENDENT SPRINKLER |
| | |

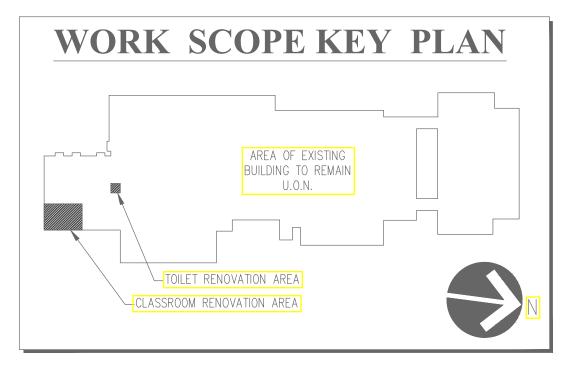


FIELD VERIFY ALL CONDITIONS

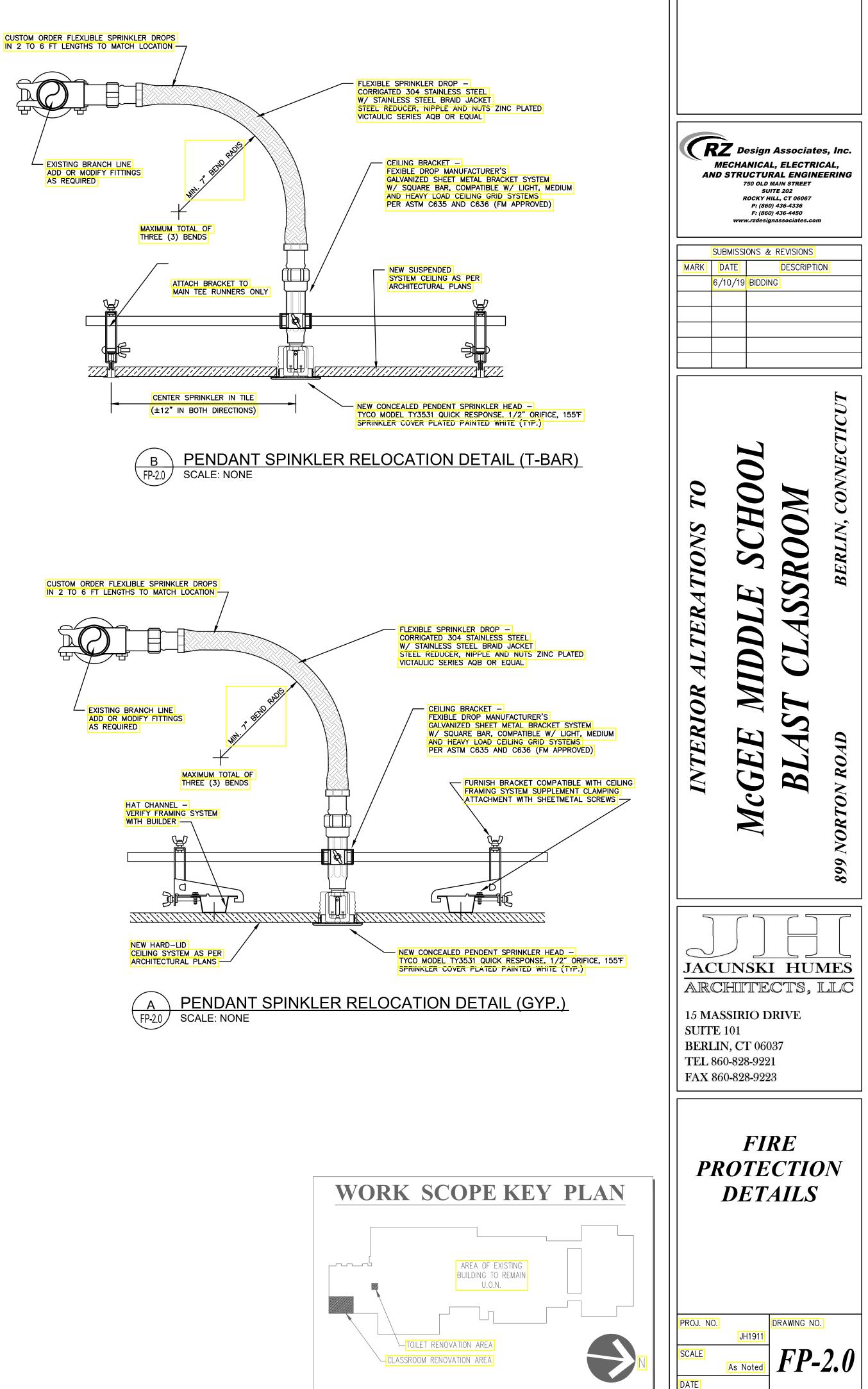
DESIGN DRAWINGS ARE SCHEMATIC AND ARE BASED ON AS-BUILT/RECORD DRAWINGS PROVIDED BY OWNER. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING OR AWARD OF CONTRACT TO INSPECT EXISTING FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE ACCURACY OF THESE PLANS AND GATHER ADDITIONAL INFORMATION NECESSARY TO PRODUCE DETAILED SHOP DRAWINGS OF THE CHANGES AND MODIFICATIONS REQUIRED TO RENOVATE THE SPACE. THIS CONTRACT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY FOR FIELD MODIFICATIONS DUE TO EXISTING CONDITIONS.

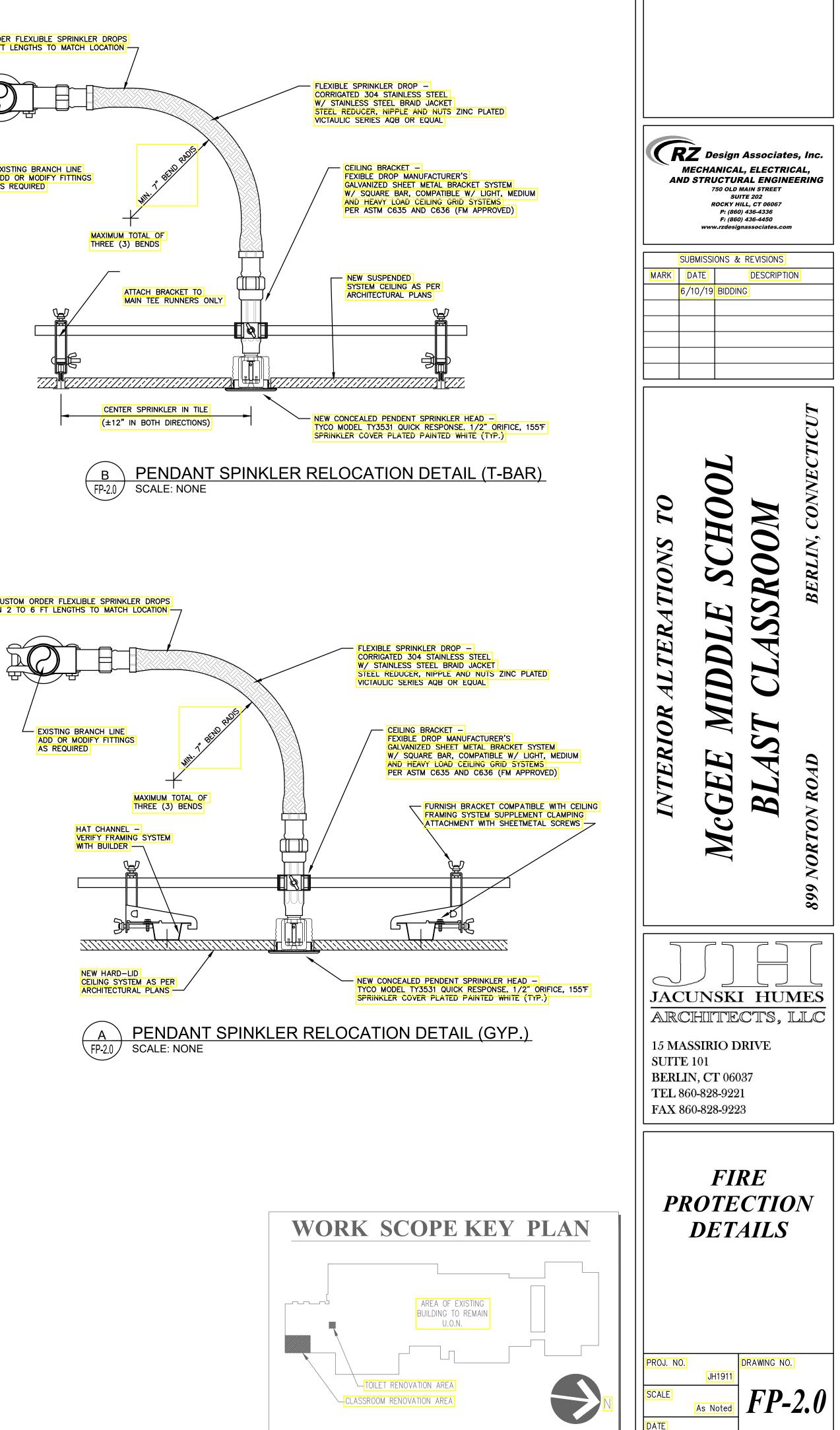
THE CONTRACTOR SHALL CONTACT THE ARCHITECT, ENGINEER OR OWNER PRIOR TO BIDDING FOR INTERPRETATIONS AND CLARIFICATIONS OF THE DESIGN AND INCLUDE IN HIS BID ALL COSTS TO MEET THE DESIGN INTENT. CLARIFICATIONS MADE BY THE ARCHITECT, ENGINEER OR OWNER AFTER BIDDING WILL BE FINAL AND SHALL BE IMPLEMENTED AT CONTRACTORS COST.

BIDDING CONTRACTORS SHALL HAVE A WORKING KNOWLEDGE OF LOCAL CODES AND ORDINANCES AND SHALL INCLUDE IN THEIR BIDS THE COSTS FOR ALL WORK INSTALLED IN STRICT ACCORDANCE WITH GOVERNING CODES, THE PLANS AND SPECIFICATIONS NOT WITHSTANDING. THE CONTRACTOR SHALL ALERT ARCHITECT, ENGINEER OR OWNER OF ANY APPARENT DISCREPANCIES BETWEEN GOVERNING CODES AND DESIGN INTENT.



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SPRINKLER SYSTEM SPECIFICATIONS:

1. <u>DESCRIPTION</u>:

- A. INSTALL NEW SPRINKLER SYSTEM WITH DROPS TO NEW GRID CEILING.
- B. WORK INCLUDES; REMOVE THE EXISTING SPRINKLER HEADS AND INSTALL NEW CONCEALED SPRINKLER HEADS IN THE NEW LOCATIONS IN THE GRID CEILINGS CENTERED ON THE TILES.
- C. FURNISH ALL NECESSARY LABOR, MATERIAL, TOOLS, EQUIPMENT, APPURTENANC INSTRUMENTS, ETC., NECESSARY TO FULLY COMPLETE THE FIRE PROTECTION SY IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND BOTH LOCAL AND ST FIRE CODES AND N.F.P.A. #13.
- 2. <u>CONTRACTOR'S RESPONSIBILITIES</u>:
- A. ALL PERMITS AND FEES.
- HOISTING, RIGGING, TRANSPORTATION COSTS AND INSTALLATION OF NECESSAR' APPURTENANCES.
- C. THE CONTRACTOR SHALL VISIT THE PREMISES AND NOTE ALL PERTINENT FACTS A DETAILS INCLUDING CONDITIONS UNDER WHICH THE WORK MUST BE CARRIED OU ALLOWANCE WILL BE MADE FOR FAILURE TO HAVE DONE SO.
- D. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE NOTIFICATION OF OUTAGE IMPAIRMENT TO THE EXISTING FIRE PROTECTION SYSTEMS TO GENERAL CONTRA BUILDING OWNER AND LOCAL AUTHORITIES. LEAVE SPRINKLER SYSTEM OPERAT DURING CONSTRUCTION TO GREATEST EXTENT POSSIBLE.
- E. HOLES CUTTING AND PATCHING: CUTTING WILL BE BY CORE BORING, PATCHING REQUIRE BOTH WATERPROOFING AND FIREPROOFING.
- F. DRAWINGS ARE DIAGRAMMATIC; DO NOT SCALE DRAWINGS. MAKE SUCH DEVIATIC AND OFFSETS AS NECESSARY TO MEET SPACE REQUIREMENTS.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATER DAMAGE TO THE PROPER THE OWNER, THE WORK OF OTHER TRADES, AND TO EXISTING BUILDING SYSTEMS DURING ALL PHASES OF THE WORK.
- 3. <u>COORDINATION DRAWINGS</u>:
- A. DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.
- B. SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BE COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "NO EXCEPTIONS TAKEN" OR "MAKE CORRECTIONS NOTED" PR BEING USED AS A BASIS FOR COORDINATION DRAWINGS.
- C. AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEER COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE OTHER TRADES IN T FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:
- MECHANICAL SHEET METAL
- PLUMBING CONTRACTOR
- ELECTRICAL WORK
- MECHANICAL PIPING
- D. AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWI AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWING ITEMS NOT SHOWN ON COORDINATION DRAWING ARE RESPONSIBILITY OF OMITTI CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COST INCURRED BY OTHER TRADES.
- E. THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ON COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT INDIVIDUAL PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTV SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUM
- F. SUBMIT FINAL SIGNED COORDINATION DRAWING TO THE ENGINEER FOR REVIEW ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMEN FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE SHOP DRAWINGS.
- G. ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED REINSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.
- H. EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINAT HIS SUBCONTRACTORS.
- I. THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONS OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINAT PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEAF IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO THE CONFLICTS WILL NOT BEAR ADDITIONAL COST.

4. INTERIOR PIPING:

- A. STANDARD WEIGHT SCHEDULE 40 BLACK STEEL PIPE, ASTM A-795 OR A-53, WITH:
 1. VICTUALIC STYLE 005 COUPLINGS AND FULL FLOW FITTINGS, ASTM A-47 AND A-536
- SIZES 2" AND SMALLER. STANDARD SQUARE CUT GROOVES TO COUPLING MANUFACTURER'S SPECIFICATIONS.
- 2. MALLEABLE IRON THREADED FITTINGS 150 LB. ANSI B16.3, OR CAST IRON THREADED FITTINGS 250 LB. ANSI B16.4, IN ALL SIZES.
- B. LIGHT WALL PIPE SCHEDULE 10, ASTM A-135, VICTUALIC STYLE 005 COUPLINGS AN FULL FLOW FITTINGS, ASTM A-47 AND A-536, IN SIZES 2-1/2" AND LARGER, WITH RO GROOVES. NO CUT GROOVES OR THREADING WILL BE ALLOWED ON SCHEDULE 10

5. <u>SPRINKLER DROPS</u>:

FLEXHEAD COMMERCIAL CEILING SPRINKLER CONNECTIONS ALL 304 STAINLESS STE BRAIDED HOSE ASSEMBLY, HD-G60 GALVANIZED SHEET METAL BRACKET SYSTEM COMPATIBLE WITH LIGHT, MEDIUM AND HEAVY LOAD CEILING GRID SYSTEM PER AST AND C636; FACTORY ASSEMBLED AND TESTED. FM APPROVED.

6. <u>SPRINKLER HEADS</u>:

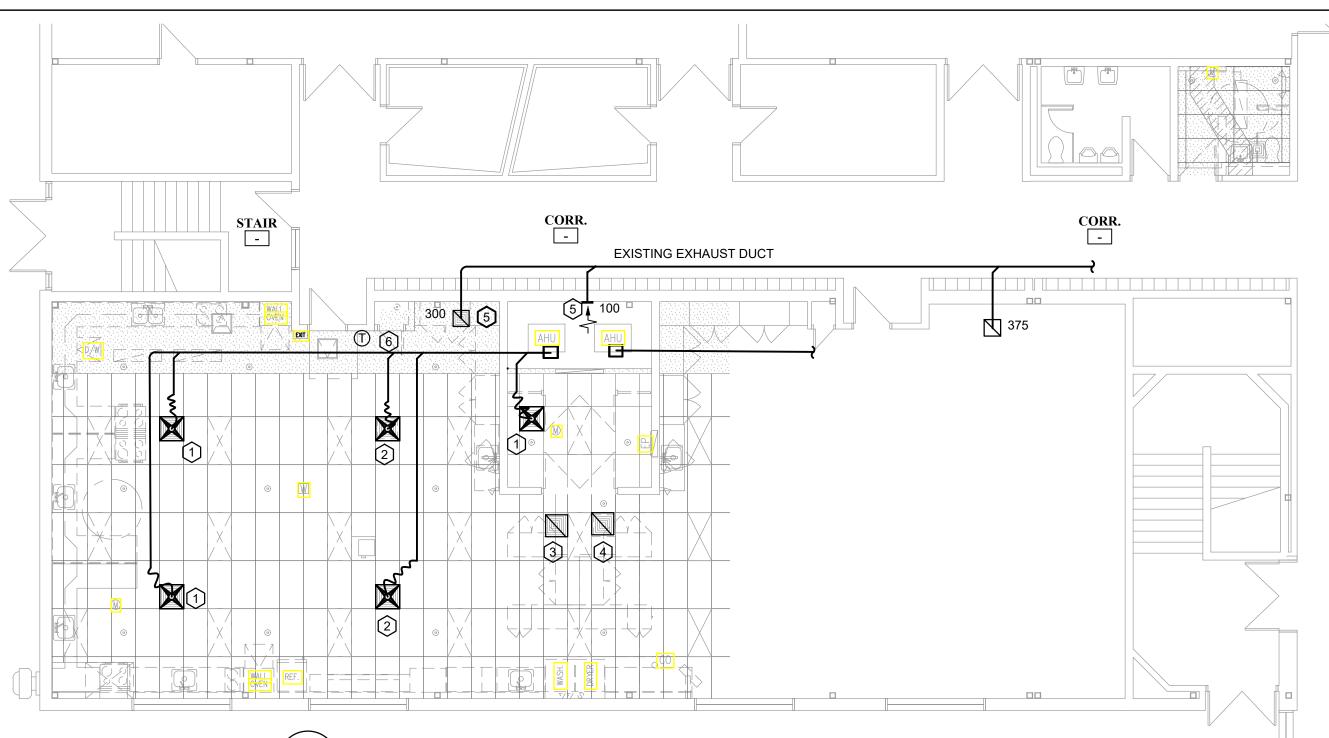
- SPRINKLER HEADS SHALL BE VIKING, RELIABLE, VICTAULIC OR TYCO. EQUAL TO THE FOLLOWING MODEL NUMBER(S) AND TYPE(S):
- TYCO MODEL TY3531 CONCEALED PENDENT SPRINKLER, 1/2" ORIFICE, 155°F, WITH WHITE COVER PLATE, 135°F.

7. <u>VALVES</u>:

- VALVES SHALL BE MILWAUKEE, KENNEDY, NIBCO OR HAMMOND. EQUAL TO THE FOLL MODEL NUMBER(S) AND TYPE(S):
- GLOBE VALVES: HAMMOND FIG. IB-413-T. UNION BONNET, TEFLON DISC, BRONZE OV VALVE.
- B. BALL VALVES: HAMMOND FIG. 8501, BRONZE TWO PIECE BODY, BRASS STEM, CHRO PLATED BRASS BALL, TELFON SEATS AND STUFFING BOX RING, LEVEL HANDLE, THREADED END.

| | 8. | EXECUTION: A. THE COMPLETE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH RULES AND REGULATIONS PERTAINING TO ORDINARY HAZARD (NOT TO EXCEED 130 SQ.FT. PER | |
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| | | REGULATIONS PERTAINING TO ORDINARY HAZARD (NOT TO EXCEED 130 SQ.FT. PER HEAD - SYSTEM TO BE HYDRAULICALLY CALCULATED; NOT SIZED AS PER PIPE SIZING SCHEDULE) OCCUPANCY AND COMPLY WITH FULL REQUIREMENTS OF THE REGULATORY AGENCIES. | |
| EM | | B. THE CONTRACTOR SHALL HAVE HYDRANT FLOW TESTS CONDUCTED ON THE FIRE HYDRANTS HYDRAULICALLY CLOSEST TO THE EXISTING WATER SERVICE ENTRANCE. CONDUCT TESTS AND RECORD TEST DATA IN ACCORDANCE WITH NFPA #291. | |
| | | 1. OBTAIN FLOW TEST DATA, ATTESTED TO BY CLERK OF THE WORKS, WHICH IS ADEQUATE TO BASE THE DESIGN ON. DATA WILL BE JUDGED ADEQUATE IF ACTUAL FLOW VALUES MEASURED DURING FLOW TEST EQUAL OR EXCEED TOTAL SYSTEM DEMAND. FLOW VALUES EXTRAPOLATED FROM MEASURED FLOW VALUES MAY NOT BE USED AS A BASIS FOR DESIGN. | |
| | | C. THE FIRE PROTECTION CONTRACTOR SHALL HAVE PREPARED BY A NICET LEVEL IV CERTIFIED SPRINKLER TECHNICIAN OR UNDER A P.E. WORK INSTALLATION DRAWINGS (SHOP DRAWINGS) AND SHALL SUBMIT THEM TO THE ENGINEER AND RATING BUREAU FOR APPROVAL. | |
| 0 | | D. SHOP DRAWING SHALL INCLUDE ALL HYDRAULIC CALCULATIONS PREPARED ON FORMS SIMILAR TO THOSE IN NFPA #13, APPENDIX A. | |
| , | | E. BUILDING DESIGN CRITERIA: | |
| | | ORDINARY HAZARD GROUP II - 0.20 GPM/SF DENSITY OVER THE MOST REMOTE 1500 SQ.FT. PROTECTION AREA LIMITATION 130 SQ.FT. | |
| | | F. BEFORE COMMENCING WORK, THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE WITH OTHER TRADES, SO THAT NO POSSIBLE INTERFERENCE WILL OCCUR. IF, DUE TO INADEQUATE COORDINATION, EXTRA WORK IS ENTAILED, THE FIRE PROTECTION CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE. | |
| DF | 9. | PIPING SYSTEMS: | |
| | | A. SPECIAL CARE MUST BE TAKEN TO INSURE THAT PIPING ABOVE HUNG CEILINGS IS RUN TO MAINTAIN MAXIMUM HEADROOM AND CLEARANCE FOR ACCESS TO THE EQUIPMENT AND TO AVOID CONFLICT WITH THE ELECTRICAL CONDUITS, LIGHTING FIXTURES, OTHER PIPING, DUCTWORK AND EQUIPMENT OF OTHER TRADES. | |
| | | B. THE PIPING SHALL BE SO ARRANGED THAT THE ENTIRE SYSTEM CAN BE FLUSHED AND DRAINED THROUGH ACCESSIBLE LOW POINTS. PROVIDE AUXILIARY DRAINS FOR WATER TRAPPED IN SECTIONS OF PIPE. DRAIN PIPE SHALL BE GALVANIZED. | |
| ТО | | C. RUN PIPING CONCEALED THROUGHOUT FINISHED SPACES, EITHER IN FURRED SPACES, SHAFTS, OR ABOVE FALSE CEILINGS. PIPE SIZE FOR DROPS TO SPRINKLER HEADS LOCATED BELOW SUSPENDED CEILINGS SHALL BE 1" MINIMUM. PIPING SHALL BE SUPPORTED PER REQUIREMENTS OF NFPA #13. | |
| | | D. CHROME-PLATED ESCUTCHEONS SHALL BE USED ON ALL EXPOSED PIPING WHICH PENETRATES EITHER WALLS OR CEILINGS. ALL WALL PENETRATIONS SHALL BE SLEEVED AND CAULKED AND RATED SEPARATIONS FIRESTOPPED. | |
| | | E. VICTAULIC FITTINGS AND COUPLINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS. | |
| | | F. THE ENDS OF PIPES SHALL BE REAMED FREE FROM BURRS AND KEPT FREE OF SCALE, DIRT AND OIL. | |
| E | | G. THREADED JOINTS SHALL BE MADE WITH TEFLON LIQUID JOINT COMPOUND APPLIED TO MALE THREADS ONLY. | |
| | 10. | INSTALLATION: | |
| | | A. SPRINKLER HEADS OF THE PROPER CONFIGURATION AND NUMBERS ARE TO BE INSTALLED AS REQUIRED IN ACCORDANCE WITH REGULATIONS PERTAINING TO ORDINARY HAZARD OCCUPANCIES WITH SPECIAL ATTENTION TO THE RULES ON OBSTRUCTIONS. COMPLY WITH THE FULL REQUIREMENTS OF THE NFPA, LOCAL FIRE DEPARTMENT, STATE FIRE MARSHAL, FIRE INSURANCE COMPANY, RATING BUREAU AND OTHER AGENCIES HAVING JURISDICTION. | |
| 5. D | | B. WHERE FLEXIBLE SPRINKLER DROPS ARE USED THE MINIMUM BEND RADIUS SHALL BE 7 INCHES. THE CEILING SUPPORT BRACKETS SHALL BE ATTACHED TO THE MAIN TEE BAR RUNNER IN THE GRID, NOT THE CROSS SUPPORT RAILS. FOLLOW ALL MANUFACTURER'S INSTRUCTIONS. | |
| D | | C. SPRINKLERS WHICH ARE SO LOCATED AS TO BE SUBJECT TO MECHANICAL INJURY (IN EITHER UPRIGHT OR THE PENDANT POSITION) SHALL BE PROTECTED WITH APPROVED GUARDS. | |
| F | | D. INSTALL HEADS WITH TEFLON LIQUID JOINT COMPOUND APPLIED TO MALE THREADS ONLY. | |
| -Y | | E. SPRINKLER HEADS SHALL BE LOCATED IN CENTER OF CEILING TILES EXCEPT WHERE INDICATED OTHERWISE. | |
| | 11. | TESTING: A. TEST ENTIRE SYSTEM AT 200 PSI FOR TWO (2) HOURS AFTER COMPLETION, IN | |
| | | ACCORDANCE WITH NFPA #13. B. FURNISH TO THE RATING BUREAU, THE CERTIFICATE COVERING MATERIALS AND TESTS | |
| | | AS OUTLINED IN NFPA #13. C. DURING AND AFTER COMPLETION, THE ENTIRE INSTALLATION SHALL BE SUBJECT TO | |
| | 12. | INSPECTION AND TEST BY THE RATING BUREAU. | |
| | | A. PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. | |
|) | | B. DRAWING SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND INCLUDE DETAILS AS NECESSARY TO CLEARLY INDICATE THE INSTALLED CONDITION. DRAWINGS SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. | |
| | | C. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. | |
| 5 | | D. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER. | |
| | | E. PROVIDE A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN WORK, INCLUDE ALL CHANGES FOR AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT PRAVINCES OF APPROPRIATE SUCH DRAWINGS, DOCUMENT ALL | |
| | | CONTRACT DRAWINGS OR APPROPRIATE SHOP DRAWINGS. DOCUMENT ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND WORK INSTALLED IN A NEAT AND ACCURATE MANNER. INDICATE THE FOLLOWING INSTALLED CONDITIONS: • MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND SIGNALING | |
| NG BE | | DEVICES LOCATED AND NUMBERED, ITEMS REQUIRED FOR MAINTENANCE LOCATED (I.E. LOW PT. DRAINS, UNIONS, FLOW AND PRESSURE SWITCHES, ETC.). VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVES TAG CHART. | |
| | | DOCUMENT ALL PIPING SIZES AND ELEVATIONS. INCLUDE PIPE LENGTHS AND/OR DIMENSION NOTING POSITION OF ALL SPRINKLER HEADS. | |

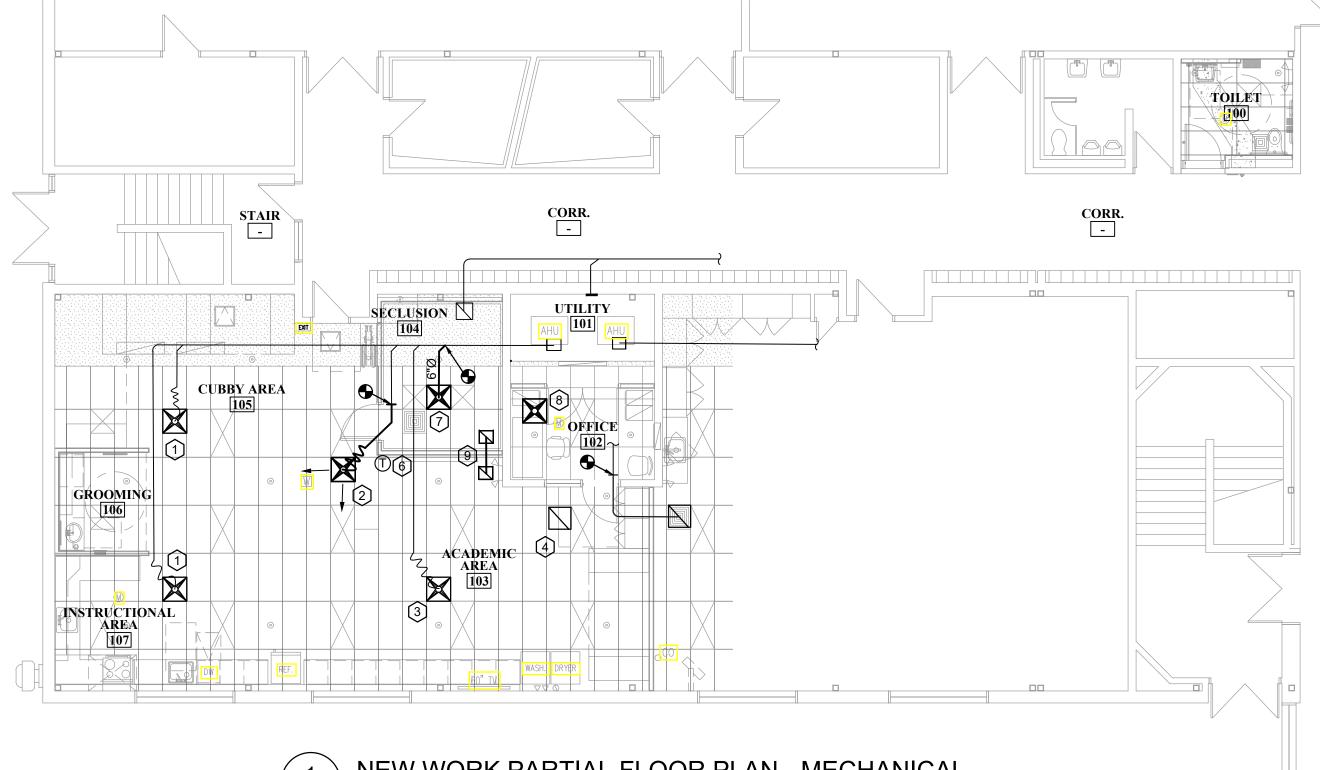
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DEMOLITION PARTIAL FLOOR PLAN - MECHANICAL \ M-1.1 / SCALE: 1/8" = 1'-0"

DEMOLITION NOTES:

- (1) EXISTING SUPPLY DIFFUSER TO REMAIN
- (2) EXISTING SUPPLY DIFFUSER TO BE RELOCATED
- (3) EXISTING RETURN GRILL TO REMAIN
- (4) EXISTING RETURN GRILL TO BE RELOCATED
- 5 EXISTING EXHAUST GRILL TO REMAIN
- (6) EXISTING THERMOSTAT/CO2 SENSOR TO BE RELOCATED

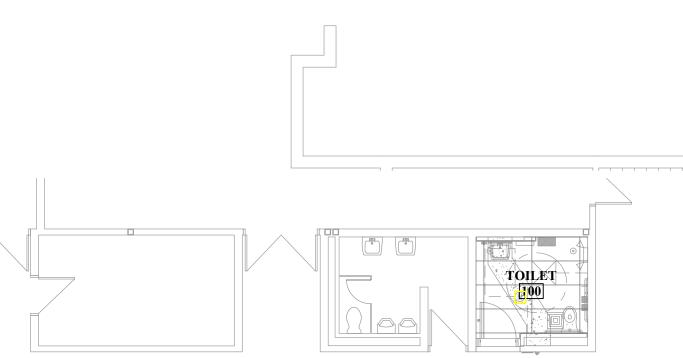


NEW WORK PARTIAL FLOOR PLAN - MECHANICAL M-1.1 SCALE: 1/8" = 1'-0"

NEW WORK NOTES:

- (1) EXISTING SUPPLY DIFFUSER, 300CFM
- (2) RELOCATED SUPPLY DIFFUSER, BLANK OF 2 QUADRANTS, 200 CFM
- (3) RELOCATED SUPPLY DIFFUSER, RELOCATED, 300 CFM
- (4) EXISTING RETURN GRILLE

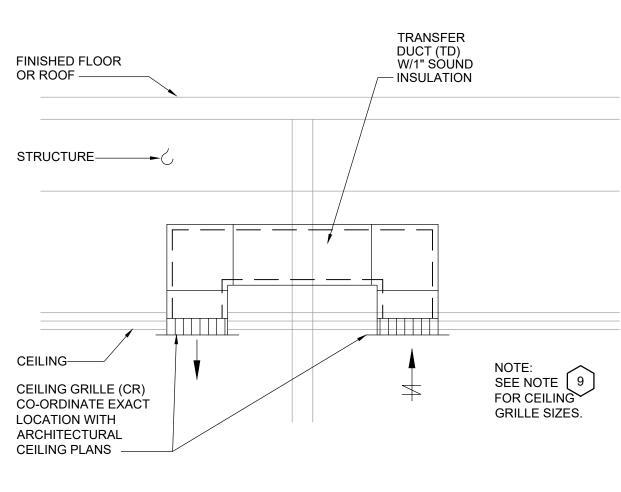
- (8) EXISTING SUPPLY DIFFUSER, 100 CFM
- (9) TRANSFER DUCT, (2) TITUS 350 CEILING GRILLES, 12x12, WITH LINED 12'x8" DUCT- SEE DETAIL



(5) EXISTING RETURN GRILLE RELOCATED- EXTEND AND CONNECT TO EXISTING 24x10 RETURN DUCT (6) EXISTING THERMOSTAT/CO2 SENSOR TO BE RELOCATED, EXTEND AND CONNECT CONTROL WIRING (7) NEW SUPPLY DIFFUSER, TITUS TYPE TDC, LAY-IN, BORDER TYPE 3, 6" NECK, 100 CFM.

GENERAL NOTES

- **RENOVATION**
- EXISTING CONDITIONS UNDER WHICH THE PROJECT IS TO BE COMPLETED.
- ORIGIN.
- NOTED.
- AND DEP STANDARDS; TURN OVER TO THE OWNER, EQUIPMENT SO INDICATED.
- SHALL BE PROTECTED DURING CONSTRUCTION.
- 7. PROVIDE TEMPORARY CONNECTIONS AND SYSTEM MODIFICATIONS AS REQUIRED FOR CONSTRUCTION AND PHASING PURPOSES.
- 8. INCLUDE ALL WORK REQUIRED TO ALLOW PHASED CONSTRUCTION WHEN NECESSARY.
- EQUIPMENT AND ITS CONDITION.



NOT TO SCALE

1. THIS PROJECT INVOLVES THE RENOVATION OF AN EXISTING FACILITY; BEFORE SUBMITTING THE BID, CONTRACTORS SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH THE

2. CONTRACTORS SHALL BE HELD RESPONSIBLE FOR ASSUMPTIONS, OMISSIONS OR ERRORS MADE AS A RESULT OF FAILURE TO BECOME FULLY FAMILIAR WITH THE EXISTING CONDITIONS.

3. IT IS NOT THE INTENT OF THESE DOCUMENTS TO SHOW EVERY DEVICE, APPURTENANCE, PIPE, WIRE OR CONDUIT TO BE REMOVED. MEP EQUIPMENT, UNITS, AND SYSTEMS NOT BEING REUSED, SHALL BE REMOVED IN THEIR ENTIRETY INCLUDING ASSOCIATED HANGERS, SUPPORTS, BASES, PADS, PIPES, DUCTS, CONDUITS, WIRES, INSULATION, AND CONTROLS BACK TO THE POINT OF

4. EQUIPMENT, PIPING, OR CONDUIT SHALL NOT BE ABANDONED IN-PLACE UNLESS SPECIFICALLY SO

5. PROPERLY DISPOSE OF DEMOLISHED EQUIPMENT IN COMPLIANCE WITH CODES, REGULATIONS,

6. RELOCATE EXISTING EQUIPMENT, DEVICES, PIPING, WIRING, AND RELATED SYSTEMS AS REQUIRED FOR CONSTRUCTION PURPOSES. ALL EXISTING SYSTEMS SHALL BE FULLY OPERATIONAL, INCLUDING RECONNECTION TO SERVICES AND UPGRADED SYSTEMS. ALL RELOCATED EQUIPMENT

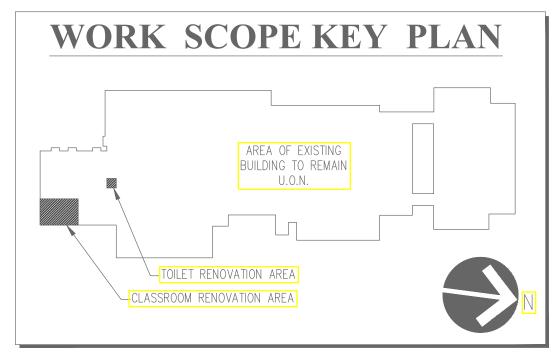
COORDINATE WITH GENERAL CONTRACTOR FOR PHASING REQUIREMENTS.

9. ALL EXISTING EQUIPMENT, FIXTURES, AND DEVICES TO BE REMOVED AND RELOCATED SHALL BE FIELD VERIFIED FOR EXACT QUANTITY AND CONDITION; KEEP AN ACCURATE RECORD OF STORED

10. REBALANCE NEW AND EXISTING MECHANICAL AND ELECTRICAL SYSTEMS ASSOCIATED WITH THE RENOVATION, INCLUDING RENOVATED AREAS AND AREAS AFFECTED BY SYSTEM MODIFICATIONS.

11. SYSTEMS REQUIRING TO REMAIN IN OPERATION DURING DEMOLITION AND RENOVATION SHALL BE CAREFULLY PROTECTED FROM DAMAGE AND CONTAMINATION BY THE CONSTRUCTION PROCESS.

CEILING GRILLE & TRANSFER DUCT DETAIL



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GENERAL

- 1. WHEN A CONFLICT BETWEEN THE DRAWINGS, NOTES AND/OR SPECIFICATIONS OCCUR, THE MORE STRINGENT, AND/OR LARGER QUANTITY AND/OR MORE EXPENSIVE SHALL APPLY. THE REQUIREMENTS LISTED WITHIN NOTES OR SPECIFICATIONS SHALL BE REQUIRED, PROVIDED AND INSTALLED WHETHER SPECIFICALLY INDICATED ON THE DRAWINGS OR NOT.
- 2. IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO PROVIDE FOR FINISHED WORK, TESTED AND READY FOR OPERATION.
- 3. ITEMS AND SERVICES NOT SHOWN ON DRAWINGS OR SPECIFICATIONS BUT REQUIRED TO RENDER THE WORK COMPLETE AND READY FOR OPERATION, SHALL BE PROVIDED WITHOUT ADDITIONAL COST.
- 4. WORK OF THIS SECTION SHALL BE GOVERNED BY THE CONTRACT DOCUMENTS. PROVIDE MATERIALS, LABOR, EQUIPMENT AND SERVICES NECESSARY TO FURNISH, DELIVER AND INSTALL ALL WORK AS REQUIRED BY JOB CONDITIONS. WHERE A CONFLICT EXISTS BETWEEN THESE NOTES, THE DRAWINGS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- 5. DRAWINGS ARE DIAGRAMMATIC AND INDICATE A GENERAL ARRANGEMENT OF WORK AND ARE NOT TO BE CONSIDERED SUB-CONTRACTOR DOCUMENTS. IT IS THE INTENT OF THESE DOCUMENTS TO INCLUDE THE PROVISION AND AND INSTALLATION OF ALL NECESSARY WORK AND MATERIALS FOR COMPLETE, OPERATIONAL AND CODE COMPLIANT SYSTEMS BY THE CONTRACTOR. GENERAL DESIGN CONCEPTS INDICATED MUST BE FOLLOWED OR BETTERED. THE BID SHALL INCLUDE OFFSETS, ADDITIONAL PIPING, VALVES AND EQUIPMENT AND COMPONENTS AS REQUIRED TO MEET CONSTRUCTION CONDITIONS FOR PROPER OPERATION. DO NOT SCALE DRAWINGS. CONSULT ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR SPACE CONDITIONS AND ADDITIONAL REQUIREMENTS.
- 6. PERFORM THE WORK IN ACCORDANCE WITH THE REQUIREMENTS OF THE CONTRACT5 GENERAL CONDITIONS AND IN COORDINATION WITH ALL OTHER TRADES. ALL WORK SHALL BE DONE IN CONFORMANCE AND PROVISIONS OF ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES AND LAWS.
- 7. VISIT SITE, CHECK FACILITIES AND CONDITIONS AND MAKE ALL NECESSARY OBSERVATIONS AND MEASUREMENTS. NOTE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED AND TAKE ALL ITEMS INTO CONSIDERATION IN BID.
- 8. SYSTEMS ARE TO BE COMPLETE AND WORKABLE IN ALL RESPECTS, PLACED IN OPERATION AND PROPERLY ADJUSTED.
- 9. EACH CONTRACTOR SHALL PROVIDE HIS OWN CLEAN-UP, REMOVAL AND LEGAL DISPOSAL OF ALL RUBBISH DAILY.
- 10. CONTRACTOR SHALL PROTECT NEW WORK, EXISTING WORK AND ADJACENT PROPERTY AGAINST WEATHER.
- 11. CONTRACTOR SHALL PROTECT HIS WORK, MATERIALS, APPARATUS AND FIXTURES FROM DAMAGE. ANY WORK DAMAGED BY FAILURE TO PROVIDE PROTECTION REQUIRED, SHALL BE REMOVED AND REPLACED WITH NEW MATERIAL AT THE CONTRACTOR'S EXPENSE.
- 12. CONTRACTOR MUST CONFIRM ALL UTILITY COMPANY REQUIREMENTS AND CONNECTION POINTS IN FIELD PRIOR TO STARTING WORK.
- 13. ARRANGE FOR AND OBTAIN OWNER'S AND INSURANCE REPRESENTATIVE'S PERMISSION FOR ANY SERVICE SHUTDOWNS.
- 14. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, SEQUENCES OF CONSTRUCTION AND THE SAFETY OF WORKERS.
- 15.NO PIPING, DUCTWORK, WIRING, ETC. SHALL BE INSTALLED OR ROUTED ABOVE ELECTRICAL PANELS AND EQUIPMENT.
- 16. THE MECHANICAL CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR AND OBTAIN A WRITTEN APPROVAL IDENTIFYING THE ELECTRICAL CHARACTERISTICS OF ALL MECHANICAL EQUIPMENT PRIOR TO ORDERING OF EQUIPMENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR LACK OF CONTRACTOR COORDINATION OF ELECTRICAL CHARACTERISTICS.
- 17. DURING CONSTRUCTION THE CONTRACTOR MAY UNCOVER AN EXISTING CONDITION THAT WILL HAVE TO BE MODIFIED. ANY SUCH WORK WHICH COMES UNDER THE JURISDICTION OF THIS CONTRACTOR SHALL BE DONE BY THIS CONTRACTOR WITHOUT EXTRA COST TO THE OWNER. AS THOUGH FULLY DETAILED ON PLANS AND/OR DESCRIBED IN THE SPECIFICATIONS.
- 18. CODES, PERMITS, STANDARDS AND REGULATIONS -CONFORM TO ALL APPLICABLE CODES (LOCAL, STATE, NATIONAL CODES, NFPA, OSHA, ETC.). GOVERNMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, AND APPLICABLE STANDARDS. -OBTAIN PERMITS AND PAY ALL FEES ARRANGE FOR ALL REQUIRED INSPECTIONS AND APPROVALS.
- 19. WORK SHALL INCLUDE ALL INCIDENTALS, LABOR, MATERIALS, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, CONSUMABLE ITEMS, FEES, LICENSES, AND ADMINISTRATIVE TASKS REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM.

20.STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.

ALTERATION WORK AND DEMOLITION

- 1. ALL EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES ETC. SHALL BE REMOVED AND SHALL BE DISPOSED OF, TURNED OVER TO THE OWNER, OR SALVAGED AS DIRECTED BY THE OWNER. EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES, ETC. SHALL NOT BE REMOVED FROM THE PREMISES WITHOUT THE OWNERS APPROVAL.
- 2. ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE OWNER UPON COMPLETION OF ALL NEW WORK.

BASE EQUIPMENT, MATERIALS AND SUBSTATIONS.

- 1. ALL EQUIPMENT AND MATERIALS SHALL BE NEW, FREE OF DEFECTS AND UL LABELED.
- 1. PROVIDE A COMPLETE SET OF AS -BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS. AS-BUILT DRAWINGS SHALL INDICATE ALL INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. DRAWINGS SHALL BE OF SIMILAR SCALE AS THE CONSTRUCTION DOCUMENTS AND 2. BASE BID MANUFACTURERS ARE INCLUDED IN THE SPECIFICATIONS OR LISTED IN SCHEDULES ON INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS THE DRAWINGS. ALL OTHER MANUFACTURERS ARE CONSIDERED A SUBSTITUTION. SHALL BE BOUND IN A COMPLETE AND CONSECUTIVE SET. SUPPLEMENTAL SKETCHES AND LOOSE PAPERWORK WILL NOT BE ACCEPTABLE AND WILL BE RETURNED FOR REVISION. THE 3. THE NAME OR MAKE OF ANY ARTICLE, DEVICE, MATERIAL, FORM OF CONSTRUCTION, FIXTURE, ETC. CONTRACTOR SHALL COMPLY WITH THE ENGINEERS COMMENTS TO PRODUCE A CLEAR AND CONCISE SET OF DRAWINGS. DRAWINGS SHALL BE SUBMITTED IN BOTH HARD COPY AND
- STATED IN THIS SPECIFICATIONS, WHETHER OR NOT THE WORDS "OR APPROVED EQUAL" ARE

4. ALL PROPOSALS SHALL BE BASED ON "STANDARDS" SPECIFIED.

- SUBMITTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO EVALUATE IT AND CERTIFY THAT THE SUBSTITUTION IS EQUIVALENT IN ALL RESPECTS TO THE BASE SPECIFICATIONS.
- 7. IF SUBSTITUTIONS ARE APPROVED, NOTIFY ALL OTHER CONTRACTORS, SUBCONTRACTORS, ETC. AFFECTED BY THE SUBSTITUTION AND FULLY COORDINATE WITH THEM. ANY COSTS RESULTING FROM SUBSTITUTION, WHETHER BY THIS CONTRACTOR OR OTHERS, SHALL BE THE RESPONSIBILITY OF AND PAID FOR BY THE SUBSTITUTING CONTRACTOR. APPROVED SHOP DRAWINGS DO NOT ABSOLVE THIS CONTRACTOR FROM THIS RESPONSIBILITY.
- 8. ALL EQUIPMENT SHALL BE INSTALLED IN FULL ACCORDANCE WITH THE MANUFACTURER'S DATA AND INSTALLATION INSTRUCTIONS. IT IS THIS CONTRACTOR'S RESPONSIBILITY TO CHECK AND CONFIRM THESE REQUIREMENTS PRIOR TO STARTING WORK.

WARRANTY

- 1. FULLY WARRANT ALL MATERIALS, EQUIPMENT AND WORKMANSHIP FOR (1) YEAR FROM DATE OF ACCEPTANCE.
- 2. EXTEND ALL MANUFACTURERS' WARRANTIES TO OWNER, INCLUDING FIVE YEAR (5) COMPRESSOR EXTENDED WARRANTY ON NEW HVAC EQUIPMENT.
- 3. REPAIR OR REPLACE WITHOUT CHARGE TO THE OWNER ALL ITEMS FOUND DEFECTIVE DURING THE WARRANTY PERIOD. IN THE CASE OF REPLACEMENT OR REPAIR DUE TO FAILURE WITHIN THE WARRANTY PERIOD, THE WARRANTY ON THAT PORTION OF THE WORK SHALL BE EXTENDED FOR A MINIMUM PERIOD OF ONE (1) YEAR FROM THE DATE OF SUCH REPLACEMENT OR REPAIR.

SHOP DRAWING SUBMITTALS

- 1. SUBMIT SHOP DRAWINGS FOR MECHANICAL SYSTEMS, INCLUDING BUT NOT LIMITED TO SHEET METAL, WITH ADEQUATE DETAILS AND SCALES TO CLEARLY SHOW CONSTRUCTION. INDICATE THE OPERATING CHARACTERISTICS FOR EACH REQUIRED ITEM. CLEARLY IDENTIFY EACH ITEM ON THE SUBMITTAL AS TO MARK, LOCATION AND USE, USING SAME IDENTIFICATION AS PROVIDED ON THE CONSTRUCTION DOCUMENTS.
- 2. SHEET METAL DRAWINGS SHALL BE FULLY DIMENSIONED AND COORDINATED BASED ON FIELD VERIFIED BUILDING CLEARANCES AND ARCHITECTURAL CEILING LAYOUTS. INDICATE STRUCTURAL, LIGHTING, DUCTWORK AND PIPING AT ALL CRITICAL LOCATIONS.
- 3. CONTRACTOR SHALL REVIEW AND INDICATE HIS APPROVAL OF EACH SHOP DRAWING PRIOR TO SUBMITTAL FOR REVIEW. SHOP DRAWINGS WILL NOT BE REVIEWED BY THE ENGINEER UNLESS THE CONTRACTOR'S APPROVAL IS NOTED. DO NOT START WORK OR FABRICATION UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER AND RETURNED TO THE CONTRACTOR.
 - 4. SUBMITTALS WILL BE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND NOT FOR DIMENSIONS OR QUANTITIES. THE SUBMITTAL REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PURCHASE OF ANY ITEM IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS OR ITS COMPLETE AND PROPER INSTALLATION.
 - 5. WHERE SUBMITTALS VARY FROM THE CONTRACT REQUIREMENTS, THE CONTRACTOR SHALL CLEARLY INDICATE ON SUBMITTAL OR ACCOMPANYING DOCUMENTS THE NATURE AND REASON FOR THE VARIATIONS.
- 6. EACH MANUFACTURER OR HIS REPRESENTATIVE MUST CHECK THE APPLICATION OF HIS EQUIPMENT AND CERTIFY AT TIME OF SHOP DRAWING SUBMITTAL THAT THE EQUIPMENT SPECIFIED HAS BEEN PROPERLY APPLIED AND CAN BE INSTALLED, SERVICED AND MAINTAINED WHERE INDICATED ON THE DRAWINGS. ADVISE ENGINEER IN WRITING WITH SUBMITTAL DRAWINGS OF ANY POTENTIAL PROBLEMS. THE MANUFACTURER SHALL BE RESPONSIBLE FOR ANY CHANGES THAT MIGHT BE NECESSARY BECAUSE OF PHYSICAL CHARACTERISTICS OF EQUIPMENT THAT HAVE NOT BEEN CALLED TO THE ENGINEER'S ATTENTION AT THE TIME OF SUBMITTAL.

RECORD DRAWINGS

- 1. EACH CONTRACTOR OR SUBCONTRACTOR SHALL KEEP ONE (1) COMPLETE SET OF THE CONTRACT DRAWINGS ON THE JOB SITE ON WHICH HE SHALL REGULARLY RECORD ANY DEVIATIONS OR CHANGES FROM SUCH CONTRACT DRAWINGS MADE DURING CONSTRUCTION.
- 2. THESE DRAWINGS SHALL RECORD THE INSTALLED LOCATION OF ALL CONCEALED EQUIPMENT, PIPING, ELECTRIC SERVICE, SEWERS, WASTES, VENTS, DUCTS, CONDUIT, ETC. BY MEASURED DIMENSIONS TO EACH SUCH ITEM FROM COLUMN CENTERLINES OR READILY IDENTIFIABLE AND ACCESSIBLE WALLS OR CORNERS OF THE BUILDING. PLANS ALSO SHALL SHOW INVERT ELEVATION OF SEWERS AND TOP ELEVATION OF ALL OTHER BELOW-GRADE LINES.
- 3. RECORD DRAWINGS SHALL BE KEPT CLEAN AND UNDAMAGED AND SHALL NOT BE USED FOR ANY PURPOSE OTHER THAN RECORDING DEVIATIONS FROM WORKING DRAWINGS AND EXACT LOCATIONS OF CONCEALED WORK.
- 4. AFTER THE PROJECT IS COMPLETED, THESE DRAWINGS SHALL BE DELIVERED TO THE ARCHITECT IN GOOD CONDITION, AS A PERMANENT RECORD OF THE INSTALLATION AS ACTUALLY CONSTRUCTED.

AS BUILT DRAWINGS

- ELECTRONIC (AUTO-CAD VERSION AS REQUIRED BY THE OWNER) VERSION. NUMBER OF COPIES OF EACH AS REQUESTED BY THE OWNER.
- 2. PROVIDE AS-BUILT DRAWINGS INDICATING IN A NEAT AND ACCURATE MANNER A COMPLETE RECORD OF ALL REVISIONS OF THE ORIGINAL DESIGN OF THE WORK. INDICATE THE FOLLOWING INSTALLED CONDITIONS:
- 3. INCLUDE ALL CHANGES AND AN ACCURATE RECORD, ON REPRODUCTIONS OF THE CONTRACT DRAWINGS OR APPROPRIATE SHOP DRAWINGS, OF ALL DEVIATIONS, BETWEEN THE WORK SHOWN AND THE WORK INSTALLED.
- 4. EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.
- 5. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- 6. CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- 7. SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.
- 8. SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

HYDRONIC SYSTEMS PIPING

- 1. HOT WATER PIPING SHALL BE TYPE L COPPER UP TO AND INCLUDING 2". PIPING 2-1/2" AND ABOVE SHALL BE WELDED SCHEDULE 40 STEEL PIPING. PIPING SHALL BE ASTM A53/A FOR STEEL PIPE, ASTM B88 FOR COPPER AND COMPLY WITH ASME B31.9. STEEL FITTINGS SHALL BE WELDED JOINTS; ASTM A 234/A 234M; WROUGHT STEEL. COPPER JOINTS SHALL BE SOLDER JOINTS: ASME B16.18 CAST BRASS/BRONZE OR ASME B16.22 SOLDER WROUGHT COPPER: SOLDER SHALL BE ASTM B32 LEAD-FREE, HB ALLOY (95-5 TIN-ANTIMONY) OR TIN AND SILVER. BRAZE JOINTS SHALL BE AWS A5.8/A5.8M BCuP COPPER/SILVER ALLOY.
- 2. ISOLATION VALVES SHALL BE FULL-PORT, BRONZE BODY UP TO 2"; IRON BODY OVER 2", 600 PSI RATED BY NIBCO, MILWAUKEE OR CONBRACO.

3. PROVIDE AIR VENTS AT ALL HIGH POINTS AND DRAINS AT ALL LOW POINTS. DUCTWORK

- 1. DUCTWORK SHALL BE FABRICATED FROM HOT-DIPPED GALVANIZED STEEL SHEET CONFORMING TO ASTM A653, WITH G60 COATING.
- 2. FABRICATE, SUPPORT, INSTALL AND SEAL IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE, AND AS INDICATED. PROVIDE DUCT MATERIAL, GAUGES, REINFORCING AND SEALING FOR OPERATING PRESSURES INDICATED.
- 3. JOINT SEALERS AND SEALANTS SHALL BE NON-HARDENING, WATER, MILDEW AND MOLD RESISTANT. FLAME SPREAD OF 0, SMOKE DEVELOPED OF 0 WHEN TESTED IN ACCORDANCE WITH ASTM E84.
- 4. DURING CONSTRUCTION PROVIDE TEMPORARY CLOSURES OF METAL OR TAPED POLYETHYLENE

INSULATION

A. <u>GENERAL</u>

1. FURNISH ALL MATERIAL, LABOR AND EQUIPMENT AS REQUIRED TO INSTALL COMPLETE PLUMBING AND HVAC INSULATION AS INDICATED ON MECHANICAL DRAWINGS AND IN THESE SPECIFICATIONS.

2. INSTALL IN FULL ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

HVAC SYSTEMS AND EQUIPMENT

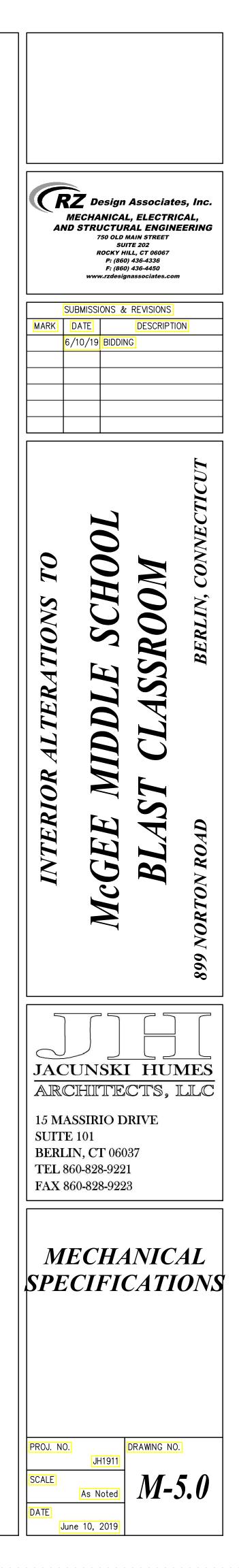
A. <u>GENERAL</u>

- 1. MECHANICAL CONTRACTOR TO FURNISH ALL HVAC EQUIPMENT INDICATED AND/OR SCHEDULED ON THE DRAWINGS COMPLETE WITH ALL REQUIRED ACCESSORIES.
- 2. INSTALL COMPLETE SYSTEMS AND PLACE IN PROPER OPERATION PER MANUFACTURER'S RECOMMENDATIONS, LUBRICATE AND ADJUST AS REQUIRED. FURNISH AND INSTALL CLEAN SET OF FILTERS PRIOR TO BALANCING.
- 3. CONTRACTORS BIDDING THIS PROJECT SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THEIR WORK. SUBMISSION OF A BID ON THIS PROJECT SHALL BE CONSTRUED AS HAVING SUCH KNOWLEDGE.
- 4. VERIFY EXACT CONDITIONS IN FIELD AND COORDINATE WITH THESE DRAWINGS AND OTHER TRADES BEFORE BEGINNING NEW WORK.
- 5. DETERMINE EXACT LOCATIONS FOR ALL EQUIPMENT, PIPING, CONDUITS AND DUCTWORK IN FIELD.
- 6. COORDINATE WORK OF THIS CONTRACT WITH OTHER TRADES. CONFLICTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT. ARCHITECT'S RESOLUTION TO CONFLICTS SHALL BE FINAL.
- 7. ANY DISCREPANCIES BETWEEN WHAT IS SHOWN ON DRAWINGS OR SPECIFIED AND THE ACTUAL CONDITIONS IN THE FIELD SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING.
- 8. BUILDING AND SURFACES DAMAGED DURING INSTALLATION SHALL BE REPAIRED, REPLACED, AND/OR RESTORED TO ORIGINAL CONDITION AFTER COMPLETION OF WORK AND BEFORE ACCEPTANCE BY OWNER.

TESTING, ADJUSTING AND BALANCING

1. BALANCE ALL AIR HANDLING SYSTEMS TO WITHIN 10% OF NOTED QUANTITIES

ON OPEN DUCTWORK TO PREVENT CONSTRUCTION DUST FROM ENTERING DUCTWORK SYSTEM.



- 1. IDENTIFIED POWER, LIGHTING AND RECEPTACLE REMOVED. REMOVAL SHALL BE COMPLETE INCI BRACKETS, HANGERS AND BRANCH CIRCUIT WIF PANELBOARD.
- 2. IDENTIFIED COMMUNICATIONS DEVICES SHALL B SHALL BE COMPLETE INCLUDING BOXES, BRACK WIRING BACK TO SOURCE HEADEND.
- 3. ELECTRICAL PANELBOARD TO REMAIN.
- . COMMUNICATIONS HEADEND EQUIPMENT AND

- POWER WIRING TO MECHANICAL EQUIPMENT, AND CONTROL PANELS SHALL BE PROVIDED (ELECTRICAL)
- 2. HVAC CONTROL WIRING SHALL BE PROVIDE (HVAC).
- UNLESS OTHERWISE STATED OR SPECIFIED BE NEMA COMBINATION MAGNETIC MOTOR S MOTOR HP. COORDINATE MOTOR STARTER WITH THE REQUIREMENTS OF THE MECHANIC THE CONTROL SYSTEM. PROVIDE OVERLOAD, PHASE LOSS PROTECTION IN ALL STARTER
- PROVIDE FLEXIBLE CONNECTIONS ON ALL R WIRING METHODS: GENERAL: CONCEAL ALL WIRING IN BUILDIN FLOORS, AND ABOVE CEILINGS EXCEPT IN ELECTRICAL EQUIPMENT ROOMS, BASEMENTS SPACES.
- GENERAL: BRANCH CIRCUIT WIRING IS SHOWN ON THE NUMERALS ADJACENT TO THE HOMERUN SYN RECEPTACLES, MOTORS, APPLIANCES, ETC. NUMBER TO WHICH THE ITEMS ARE TO BE PROVIDE BRANCH CIRCUIT WIRING FOR ALL SHOWN IN ACCORDANCE WITH THESE GENER AND THE ELECTRICAL SPECIFICATIONS.
- MECHANICAL EQUIPMENT (MOTORS, HVAC E SHOWN ON PLAN DRAWINGS FOR APPROXIM IB. REFER TO MECHANICAL PLANS FOR EXACT
- ALL 1 POLE, 15 AND 20 AMPERE BRANCH OR RECEPTACLE OR LIGHTING SHALL BE 2 WIRE AN INDIVIDUAL NEUTRAL CONDUCTOR FOR (HOT) CIRCUIT CONDUCTOR. DO NOT SHAR CONDUCTORS.
- D. ALL CIRCUITS SHALL BE 2#12,1#12G, 3/4"C 20A-1P CIRCUIT BREAKER IN PANEL INDICA OTHERWISE.
- E. ALL 120VAC(277VAC) BRANCH CIRCUITS EX LENGTH SHALL BE INCREASED TO 2#10,1#10 NOTED OTHERWISE.
- REFER TO ARCHITECT'S REFLECTED CEILING LOCATIONS OF CEILING MOUNTED DEVICES. G. ALL DEVICES SHALL BE LABELED WITH SOU
- CIRCUIT NUMBER (S).
- 6. ALL EXPOSED CABLES OF ANY TYPE IN PLE SHALL BE PLENUM RATED.
- CONTRACTOR SHALL PROVIDE ALL NECESSA STEEL FOR THE SUPPORT OF ALL EQUIPMEN AND DUCTWORK. SUSPENDED FROM SLAB, TRUSSWORK.
- 8. CONTRACTOR SHALL COORDINATE HIS WORK ALL OTHER TRADES AND THE EXISTING FIEL
- 9. ELECTRICAL TERMINATIONS (LUGS, TERMINAL EQUIPMENT SHALL BE RATED FOR USE WITH CONDUCTORS.

ELECTRICAL DEMOLITION NOTES

| LE DEVICES SHALL BE NCLUDING BOXES, WIRING BACK TO SOURCE | 5. CONTRACTOR SHALL TURN MERCURY CONTAINING LAMPS AND PCB BALLASTS OVER TO OWNER FOR PROPER DISPOSAL |
|---|--|
| BE REMOVED, REMOVAL | 6. PRIOR TO SUBMITTING BID, VISIT SITE AND IDENTIFY EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT WORK TO BE PERFORMED, NO COMPENSATION WILL BE GRANTED FOR ADDITIONAL |
| ACKETS, HANGERS AND | WORK CAUSED BY UNFAMILIARITY WITH SITE CONDITIONS THAT ARE VISIBLE OR READILY IDENTIFIED BY EXPERIENCED OBSERVERS. |
| | INCLUDE IN THE BID ALL DEMOLITION WORK REQUIRED. |
| CIRCUITS SHALL REMAIN. | |

ELECTRICAL GENERAL NOTES (NOT ALL NOTES WILL APPLY)

| IT, MOTOR CONTROLLERS | | | EQUIPMENT GROUNDING: |
|--|--|-----|--|
| ED UNDER DIVISION 26 | | Α. | INSULATED (GREEN) EQUIPMENT GROUND WIRES SHALL BE PROVIDED IN ALL FEEDERS AND BRANCH CIRCUITS. |
| DE UNDER DIVISION 25 D ALL STARTERS SHALL STARTERS SIZED PER R TYPE AND FEATURES NICAL EQUIPMENT AND AD, UNDER VOLTAGE AND RS. | | 11. | ALL PENETRATIONS OF FLOORS (WHETHER OR NOT FIRE RESISTANCE RATED) AND ALL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE PROVIDED WITH A THROUGH PENETRATION PROTECTION SYSTEM (FIRESTOPPING). EACH THROUGH – PENETRATION PROTECTION SYSTEM SHALL BE TESTED IN ACCORDANCE WITH ASTM E814 AND BE LISTED FOR THE TYPE OF FLOOR OR WALL ASSEMBLY PENETRATED AND THE TYPE OF PROTECTION SYSTEM. |
| ROTATING EQUIPMENT. | | 12. | IT IS NOT THE INTENTION TO SHOW EVERY FITTING, HANGER, WIRE OR DEVICE, ALL SUCH ITEMS SHALL BE FURNISHED AND INSTALLED AS NECESSARY FOR A COMPLETE SYSTEM. |
| ING WALLS, I MECHANICAL/ ITS,UNFINISHED ATTIC | | 13. | DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. (DO NOT SCALE THE DRAWINGS.) |
| HE FLOOR PLANS. SYMBOLS FOR LIGHTING, | | 14. | SEE SPECIFICATION SECTION "ELECTRICAL IDENTIFICATION" FOR PROPERLY LABELING EQUIPMENT WIRING, BOXES, ETC. |
| C. INDICATE THE CIRCUIT E CONNECTED. L ITEMS IERAL NOTES | | 15. | PROVIDE POWER TO ALL MECHANICAL EQUIPMENT SHOWN ON MECHANICAL PLANS, RISERS, SCHEDULES AND SPECIFICATIONS. REFER TO MECHANICAL PLANS AND SCHEDULES FOR LOCATIONS AND ELECTRICAL REQUIREMENTS. COORDINATE EXACT LOCATION OF ALL EQUIPMENT WITH THE MECHANICAL CONTRACTOR. |
| EQUIPMENT, ETC.) IS (IMATE LOCATION ONLY. T LOCATIONS. | | 16. | CONTRACTOR SHALL DETERMINE THE QUANTITY OF CONDUCTORS REQUIRED FOR PROPER OPERATION OF ALL SWITCHING SCHEMES. |
| H CIRCUITS SERVING IRE CIRCUITS PROVIDING R EACH UNGROUNDED | | 17. | ALL BRANCH CIRCUIT WIRING SHOWN IS DIAGRAMMATIC. EXACT ROUTING SHALL BE FIELD COORDINATED TO CLEAR THE WORK OF OTHER TRADES. |
| ARE NEUTRAL | | 18. | REFER TO ARCHITECTURAL ELEVATIONS FOR EXACT LOCATION OF ALL WIRING DEVICES SHOWN ON ELECTRICAL PLANS. |
| "C CONNECT TO EXISTING CATED UNLESS NOTED | | 19. | ALL RECEPTACLES LOCATED WITHIN 6' OF SINKS AND ALL WET LOCATIONS SHALL BE GFI TYPE. EXTERIOR DEVICES TO BE PROVIDED WITH "WEATHERPROOF WHILE IN USE" COVERS |
| EXCEEDING 150' (250') IN #10G,3/4"C. UNLESS | | 20. | BOND ALL OF THE FOLLOWING SERVICES TOGETHER WHERE PRESENT PER THE NEC: POWER, TELECOMMUNICATION, CATV. |
| IG PLAN FOR EXACT S. DURCE PANEL AND | | 21. | PROVIDE POWER FEED FROM PANEL WITH SUFFICIENT CAPACITY AND SPACE FOR ALL MISCELLANEOUS SYSTEMS, THESE SYSTEMS SHALL INCLUDE, BUT NOT LIMITED TO, MONITORING SYSTEMS, CONTROL PANELS, PLUMBING ACCESSORIES, ETC. CONTRACTOR SHALL FURNISH AND INSTALL ALL BRANCH CIRCUIT WIRING AND CIRCUIT BREAKERS FOR ALL EQUIPMENT SHOWN AS REQUIRED. |
| PLENUM CEILING SPACE SARY MISCELLANEOUS | | 22. | PROVIDE ALL BONDING AND GROUNDING REQUIRED BY THE NATIONAL ELECTRIC CODE, NFPA 70 AND AS REQUIRED BY LOCAL AUTHORITY HAVING JURISDICTION. |
| IENT, PIPING, CONDUIT B, STEEL, WALL OR | | 23. | ALL REQUIRED BONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID INSULATED COPPER, PROVIDE ALL NECESSARY FITTINGS, JUNCTION BOXES, END FITTINGS, ETC., FOR A COMPLETE, CONTINUOUS INSTALLATION. |
| RK WITH THE WORK OF IELD CONDITIONS. IALS, ETC.) ON ALL | | 24. | ALL BONDING/GROUNDING CONNECTIONS SHALL BE MADE BY LISTED CLAMP,OR CONNECTORS AS REQUIRED BY ARTICLE 250 OF NFPA 70, THE NATIONAL ELECTRIC CODE (CURRENT ADOPTED EDITION). |
| 1TH 90 DEGREES C | | | ALL NEW BRANCH CIRCUITS SHALL BE ROUTED TO CIRCUIT REAKERS MADE SPARE BY DEMOLITION WORK |
| | | | |
| | | | |

| | ELECTRI |
|---------------------|--------------------------------------|
| N O T E : ALL MOUNT | ING HEIGHTS GIVEN ARE TO CENTE |
| SYMBOL | DESCRIPTION |
| \boxtimes | RECESSED MOUNTED LIGHT FIXTURE - |
| | SURFACE MOUNTED LIGHT FIXTURE - S |
| 4_4 | EMERGENCY LIGHT UNIT |
| EXIT | EXIT SIGN |
| S | LIGHTING SWITCH - MOUNT AT 48" A.F.F |
| So | OCCUPANCY SENSOR SWITCH - MOUN |
| Sp | 0-10V DIMMER SWITCH - MOUNT AT 48" |
| <mark>03</mark> | CEILING MOUNTED OCCUPANCY SENS |
| ÷ | GROUNDED DUPLEX RECEPTACLE - MC |
| -⇔ <mark>₀</mark> | GROUNDED QUADRUPLEX RECEPTACL |
| # | GROUNDED DUPLEX RECEPTACLE - MC |
| + | GROUNDED DRYER RECEPTACLE - MOU |
| Ē٨ | FIRE ALARM AUDIBLE/VISUAL INDICATIN |
| SA | CALL-FOR-AID PULL CORD SWITCH - MC |
| 9 | CALL-FOR-AID BUZZER LIGHT - MOUNT |
| Ð | CLASSROOM CLOCK |
| (5) | CLASSROOM SPEAKER |
| | BRANCH CIRCUIT WIRING |
| // | 0-10V DIMMING WIRING |
| А | AMPERE |
| С | CONDUIT |
| C/B | CIRCUIT BREAKER |
| GFI | GROUND FAULT INTERRUPTER |
| Р | POLE |
| | |
| | |
| | |

| LIGHTING FIXTURE SCHEDULE | | | | | | | | | | | | |
|---------------------------|----------|------------------|------|-------|---------|-------|--------------|----------|---------|-----|---------|-------|
| FIXTURE | | | LAMP | | FIXTURE | | | MOUNT | WATTS / | | | |
| ITEM | MFG | MODEL # | TYPE | TEMP | ТҮРЕ | DIM | FIXTURE SIZE | ТҮРЕ | FIXTURE | LPW | VOLTS | NOTES |
| Α | COLUMBIA | LCAT24-35MLG-EDU | LED | 3500K | TROFFER | 0-10V | 2x4 | RECESSED | 39 | 127 | 120-277 | |
| В | COLUMBIA | LCAT24-35XLG-EDU | LED | 3500K | TROFFER | 0-10V | 2x4 | RECESSED | 74 | 114 | 120-277 | |
| С | COLUMBIA | LCAT22-35MLG-EDU | LED | 3500K | TROFFER | 0-10V | 2x2 | RECESSED | 29 | 119 | 120-277 | |
| D | COLUMBIA | LAW4-35VW-EDU | LED | 3500K | WRAP | 0-10V | | SURFACE | 27 | 124 | 120-277 | |
| | | | | | | | | | | | | |

ICAL LEGEND

TERLINE OF DEVICE UNLESS OTHERWISE NOTED.

E - SUBLETTER INDICATES TYPE - SUBLETTER INDICATES TYPE

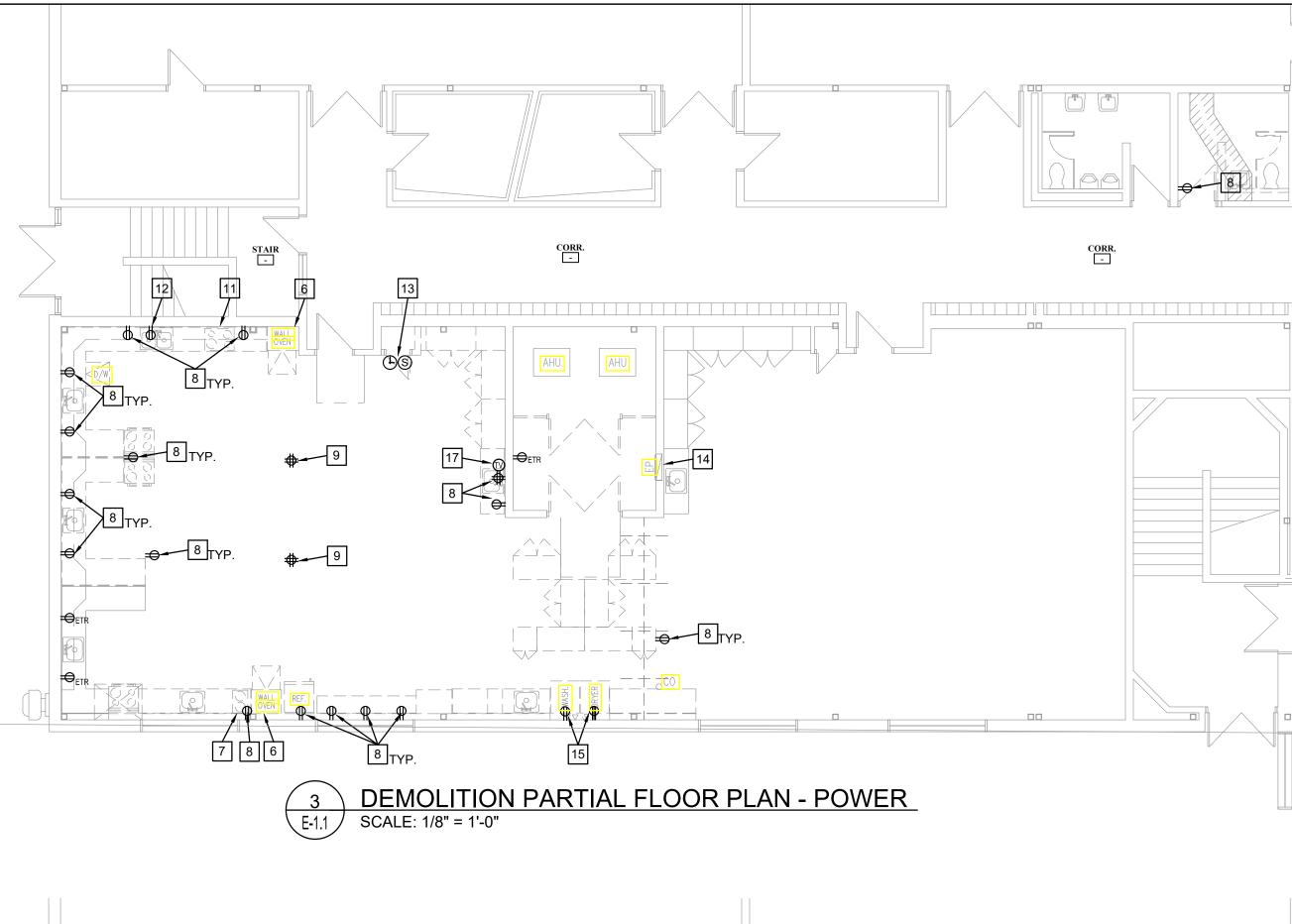
NT AT 48" A.F.F. - HUBBEL #LHMT21-*-WH OR EQUAL

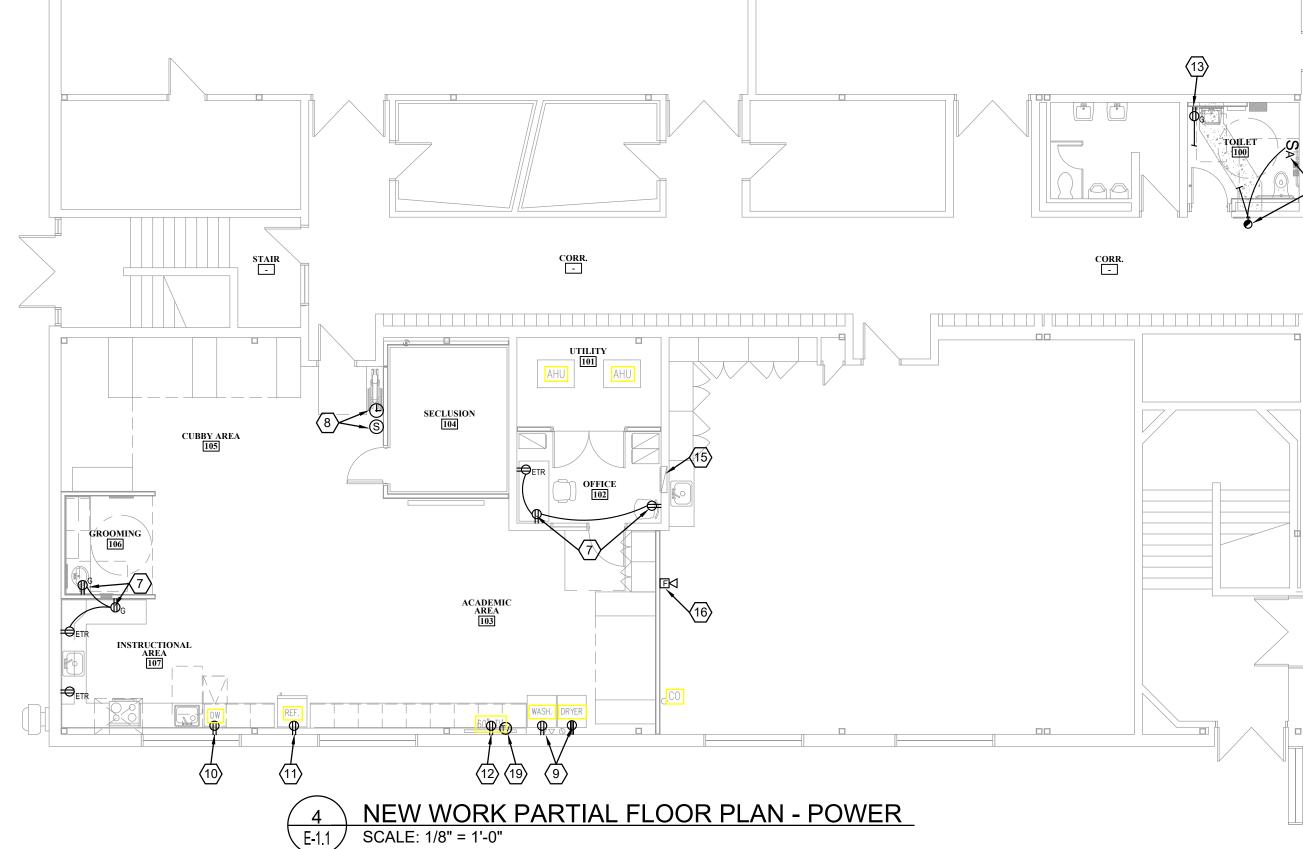
- 8" A.F.F. LUTRON #DVSTV OR EQUAL
- SOR HUBBELL #OMNIDT500 WITH POWER PACK, OR EQUAL /IOUNT AT 18" A.F.F.
- CLE GFI TYPE MOUNT 42" A.F.F.
- /IOUNT AT 18" A.F.F.
- OUNT AT 18" A.F.F.
- TING UNIT (TO MATCH EXISTING) MOUNT AT 80" A.F.F.
- MOUNT AT 36" A.F.F. EDWARDS SIGNALLING #6537 OR EQUAL
- T ABOVE DOOR EDWARDS SIGNALLING #7007B-N5 OR EQUAL

| M AND SU MARK [| ECHANICA STRUCTU 750 OLD SU ROCKY I P: (86 F: (86 | DESCRIPTIO | CAL, EERING |
|---|---|------------------------------|-------------------------------------|
| INTERIOR ALTERATIONS TO | McGEE MIDDLE SCHOOL | BLAST CLASSROOM | 899 NORTON ROAD BERLIN, CONNECTICUT |
| ARC 15 MAS SUITE BERLI TEL 86 FAX 86 | SSIRIO I 101 N, CT 060 50-828-922 50-828-922 | CTS, I DRIVE 037 21 | |
| _ | | ENDS NOTE | . |



- DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE. RETAIN CIRCUITING FOR CONNECTION TO NEW FIXTURE.
- 2 EXISTING EMERGENCY LIGHT TO REMAIN.
- 3 EXISTING LIGHT FIXTURE TO REMAIN.
- 4 EXISTING EXIT SIGN TO REMAIN.
- 5 DISCONNECT AND REMOVE EXISTING SWITCH AND CIRCUITING.
- 6 DISCONNECT AND REMOVE EXISTING WALL OVEN CIRCUITING.
- 7 DISCONNECT AND REMOVE EXISTING COOKTOP CIRCUITING.
- 8 DISCONNECT AND REMOVE EXISTING RECEPTACLE, AND EXISTING CIRCUITING AND RACEWAYS.
- Image: Disconnect and Remove Existing Floor Receptacle, and
Existing Circuiting. Remove Raceway Flush with Floor.
- 10 DISCONNECT AND REMOVE EXISTING LIGHT FIXTURE AND OCC. SENSOR. RETAIN CIRCUITING FOR CONNECTION TO NEW FIXTURE.
- 11 DISCONNECT AND REMOVE EXISTING RANGE HOOD CIRCUITING.
- 12 DISCONNECT AND REMOVE EXISTING GARBAGE DISPOSAL RECEPTACLE AND CIRCUITING.
- 13 EXISTING CLOCK AND SPEAKER TO BE RELOCATED. DISCONNECT EXISTING CIRCUITING, AND EXTEND TO NEW LOCATION.
- 14 EXISTING ELECTRICAL PANEL TO REMAIN.
- EXISTING WASHER AND DRYER RECEPTACLES TO BE RELOCATED. EXTEND EXISTING CIRCUITING TO NEW LOCATION.
- EXISTING SWITCH TO BE REPLACED. REMOVE EXISTING SWITCH AND COVERPLATE. REPLACE SWITCH WIRING WITH CLASS 1 SWITCH/DIMMING WIRING.
 - 17 EXISTING TELEVISION OUTLET TO BE RELOCATED.

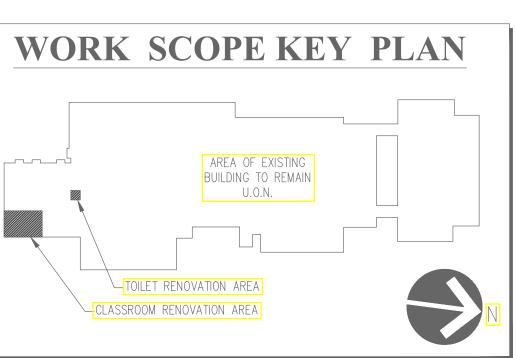


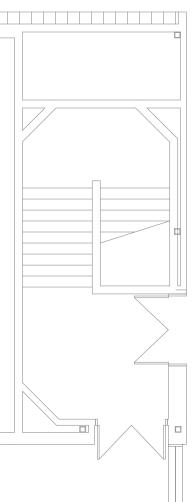


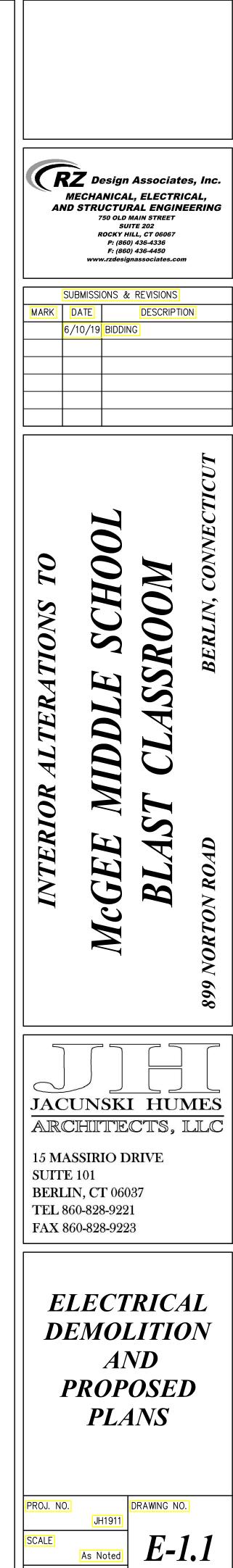
NEW WORK NOTES

- PROVIDE AND INSTALL NEW LIGHT FIXTURE. RETAIN RECONNECT TO EXISTING LIGHTING CIRCUIT.
- $\langle 2 \rangle$ EXISTING EMERGENCY LIGHT TO REMAIN.
- $\langle 3 \rangle$ EXISTING LIGHT FIXTURE TO REMAIN.
- $\langle 4 \rangle$ EXISTING EXIT SIGN TO REMAIN.
- (5) PROVIDE NEW SWITCH, AND CIRCUITING TO NEW LIGHT FIXTURE.
- 6 PROVIDE AND INSTALL NEW LIGHT FIXTURE AND OCCUPANCY SENSOR. CONNECT TO EXISTING AREA CIRCUIT.
- PROVIDE AND INSTALL NEW RECEPTACLE. CONNECT TO
EXISTING CIRCUIT.
- 8 REINSTALL CLOCK AND SPEAKER AT NEW LOCATION. EXTEND EXISTING CIRCUIT AND RECONNECT.
- Provide a second constraint of the second constraint of
- BE 3#10+#10G).
- NEW RECEPTACLE FOR DISHWASHER. PROVIDE NEW CIRCUIT TO SPARE CIRCUIT IN ELECTRICAL PANEL.

- 11 NEW RECEPTACLE FOR REFRIGERATOR. PROVIDE NEW CIRCUIT TO SPARE CIRCUIT IN ELECTRICAL PANEL.
- 12 NEW RECEPTACLE FOR TELEVISION. PROVIDE NEW CIRCUIT TO SPARE CIRCUIT IN ELECTRICAL PANEL.
- 13 NEW RECEPTACLE. EXTEND EXISTING AREA CIRCUIT TO NEW RECEPTACLE.
- NEW CALL-FOR-AID PULL CORD SWITCH AND BUZZER/LIGHT. CONNECT TO AREA RECEPTACLE CIRCUIT.
- (15) EXISTING ELECTRICAL PANEL TO REMAIN.
- (16) NEW FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE. CONNECT TO EXISTING NOTIFICATION CIRCUIT.
- 17 NEW DIMMER SWITCH AND WIRING. ROUTE NEW DIMMING CONTROL WIRING TO NEW FIXTURES.
- NEW SWITCH COVER PLATE: 3 GANG, 2 TOGGLE, 1 DECORA, STAINLESS STEEL.
- 19 NEW LOCATION OF RELOCATED TELEVISION OUTLET. EXTEND EXISTING CABLING TO NEW LOCATION.







DATE

June 10, 2019

| <u>NERAL</u> GENE | | |
|--------------------------------|--|--|
| | | 3. SHOULD THE CONTRACTOR PROF |
| 1. | REQUIREMENTS SPECIFIED ON COVER SHEET, ALONG WITH ELECTRICAL SPECIFICATIONS AND ALL ITS SECTIONS, COMPRISE THE CONTRACT DOCUMENTS | REQUEST FOR SUBSTITUTIONS TO REQUEST SHALL BE AN ALTERNA |
| | FOR THE ELECTRICAL CONTRACT. DRAWINGS AND ALL THEIR REVISIONS UP TO | COMPLETE DESCRIPTIVE (MANUFA |
| | THE BID SUBMITTAL DATE BECOME A BINDING PART OF THE CONTRACT, ALONG WITH THESE SPECIFICATIONS AS THOUGH THEY WERE ONE, AND ANYTHING | AND TECHNICAL DATA FOR ALL I SUBMIT THE REQUISITE DOCUMEN |
| | IMPLIED BY THE SPECIFICATIONS SHALL BE INTERPRETED AS ALSO IMPLIED BY THE DRAWINGS AND VICE VERSA. PROVIDE NECESSARY ITEMS FOR A COMPLETE | BY THE ARCHITECT AND ENGINEE WILL NOT BE PRESENTED BY TH |
| | INSTALLATION OF ALL ELECTRICALLY OPERATED EQUIPMENT LISTED IN THE | SUBSTITUTIONS WILL NOT BE CO |
| 2. | SPECIFICATIONS OR SHOWN ON THE CONTRACT DRAWINGS. THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND EQUIPMENT | DELAY OF PROJECT WILL NOT BE |
| | DRAWINGS AND SPECIFICATIONS ARE INCORPORATED INTO, AND BECOME A PART OF THIS DIVISION. THIS CONTRACTOR SHALL EXAMINE ALL SUCH DRAWINGS AND | 4. WHERE SUCH SUBSTITUTIONS AL INDICATED ON THE DRAWINGS, IN |
| | SPECIFICATIONS AND BECOME THOROUGHLY FAMILIAR WITH THE PROVISIONS | DESIGN AND CONSTRUCTION INCL |
| | CONTAINED THEREIN. THE SUBMISSION OF HIS BID SHALL INDICATE SUCH KNOWLEDGE. | 5. ACCEPTANCE OR REJECTION OF SUBJECT TO APPROVAL OF THE |
| 3. | ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. THEY ARE INTENDED TO SHOW THE APPROXIMATE LOCATIONS OF EQUIPMENT AND CONDUIT. DIMENSIONS GIVEN ON | CONTRACTOR SHALL SUBMIT (AT |
| | THE PLANS, IN FIGURES, SHALL TAKE PRECEDENCE OVER SCALED DIMENSIONS | SPECIFIED AND PROPOSED SUBS |
| | AND SHALL BE VERIFIED IN THE FIELD. THE ELECTRICAL CONTRACTOR SHALL LAYOUT ALL EQUIPMENT ROOMS TO MAKE SURE THE EQUIPMENT, AS PURCHASED, | 1. BEFORE THE INSTALLATION OF AN CAREFULLY ASCERTAIN THAT IT DO |
| | FITS IN THE ROOM OR SPACE SHOWN. EXACT LOCATION OF ALL EQUIPMENT SHALL BE VERIFIED IN THE FIELD AND ROUTING OF CONDUITS SHALL SUIT FIELD | ERECTION OF FINISH BEAMS, COLI |
| | CONDITIONS. | ARCHITECTURAL MEMBERS AS SHO IS INSTALLED AND THE ARCHITECT |
| 4. | UNTIL THE TIME OF INSTALLATION, THE ARCHITECT RESERVES THE RIGHT TO MAKE MINOR CHANGES IN THE LOCATION OF CONDUIT AND EQUIPMENT WITHOUT | SHALL, AT HIS OWN EXPENSE, MA ARCHITECT TO PERMIT THE COMPL |
| 5. | ADDITIONAL COST TO THE CONTRACT. THE ELECTRICAL DRAWINGS AND SPECIFICATIONS ARE INTENDED TO SUPPLEMENT | WITH DRAWINGS AND SPECIFICATIO |
| | EACH OTHER. MATERIAL AND LABOR NECESSARY TO THE PROJECT SHALL BE FURNISHED AND INSTALLED EVEN THOUGH NOT SPECIFICALLY MENTIONED IN | 2. IT SHALL BE THE DUTY OF THIS (HIS WORK AND THAT OF ANY OF |
| | BOTH. LABOR AND/OR MATERIALS NEITHER SHOWN NOR SPECIFIED, BUT | DISCOVERED. THE ARCHITECT SHA REGARDLESS OF WHICH WAS INST |
| C | OBVIOUSLY NECESSARY FOR THE COMPLETION AND PROPER FUNCTIONING OF THE SYSTEM, SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR | H. QUALITY ASSURANCE |
| | AT NO ADDITIONAL COST. | 1. ALL PRODUCTS SHALL BE NEW A MATERIALS, EQUIPMENT, APPARA |
| 0. | ARRANGE ALL EQUIPMENT SUBSTANTIALLY AS SHOWN ON THE DRAWINGS. MAKE DEVIATIONS ONLY WHERE NECESSARY TO AVOID INTERFERENCE. CHECK ALL | MANUFACTURER, BRAND NAME, TY ESTABLISH THE STANDARDS OF TH |
| | EQUIPMENT SIZES AGAINST AVAILABLE SPACE PRIOR TO SHIPMENT TO AVOID INTERFERENCE. | THESE SPECIFICATIONS TO ESTABL |
| 7. | EXAMINE THE WORK OF OTHER TRADES INSOFAR AS THEIR WORK COMES IN | EQUIPMENT INSTALLED. |
| | CONTACT WITH OR IS COVERED BY THIS WORK. IN NO CASE ATTACH TO, OR FINISH AGAINST ANY DEFECTIVE WORK OR INSTALL WORK IN A MANNER WHICH | BASIC ELECTRICAL MATERIALS AND METHODS |
| 8. | WILL PREVENT PROPER INSTALLATION OF THE WORK OF OTHER TRADES. ELECTRICAL CONTRACTOR SHALL VERIFY WITH OTHER TRADES ALL ELECTRICAL | A. NAMEPLATES 1. GENERAL: FURNISH AND MOUNT |
| - | CHARACTERISTICS OF EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. CONTRACTOR SHALL VERIFY VOLTAGE, PHASE AND HORSEPOWER AND SHALL | BRANCH SWITCHES), LARGE JUNCT PUSH BUTTON STATION, AND ALL |
| | NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF WORK. | EQUIPMENT OR EQUIPMENT CONTR |
| | ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECTING MEANS AND OVERLOAD PROTECTION FOR ALL EQUIPMENT, UNLESS FURNISHED INTERGRAL WITH | 2. PROVIDE BLACK AND WHITE NAME WHITE CENTER CORE. LETTERS S |
| 9. | EQUIPMENT PACKAGE. IT IS THE INTENT OF THESE DRAWINGS THAT THIS BE A COMPLETE ELECTRICAL | LETTERS 3/8" HIGH. FASTEN THI FASTENER. |
| | JOB. ANY ERRORS OR OMISSIONS SHALL BE BROUGHT TO THE ATTENTION OF | B. MOUNTING ACCESSORIES |
| | THE ENGINEER PRIOR TO BIDDING THE JOB. | 1. THIS CONTRACTOR SHALL FURNIS SUPPORTS, HANGERS, CONCRETE |
| 1. | THE CONTRACTOR SHALL VISIT THE SITE OF THE WORK AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING HIS WORK. THE SUBMISSION OF HIS | SUPPORT ANY ELECTRICAL EQUIPM 2. SUPPORTING MATERIAL SHALL BE |
| | PROPOSAL SHALL INDICATE SUCH KNOWLEDGE. NO ADDITIONAL PAYMENT SHALL BE MADE ON CLAIMS THAT ARISE FROM A LACK OF KNOWLEDGE OF THE | AND NECESSARY ACCESSORIES TO |
| / | EXISTING CONDITIONS. | MATERIAL SHALL BE GALVANIZED, BY BRINKLEY, STEEL CITY OR RA |
| | E AND PERMITS INSTALLATION SHALL BE IN FULL ACCORDANCE WITH ALL CODES, RULES AND | 3. ALL SURFACE-MOUNTED EQUIPMEN PLYWOOD BACKBOARD. ALL FLOOF |
| | REGULATIONS OF MUNICIPAL, CITY, COUNTY, STATE AND PUBLIC UTILITIES AND ALL OTHER AUTHORITIES HAVING JURISDICTION OVER THE PREMISES. | HIGH CONCRETE HOUSEKEEPING F |
| 2. | COMPLY WITH ANY SPECIFICATION REQUIREMENTS THAT ARE IN EXCESS BUT NOT | C. EXECUTION 1. THE ELECTRICAL WORK FOR CON |
| 3. | IN CONFLICT WITH CODE REQUIREMENTS. THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, PLAN REVIEWS | (OSHA), STATE, ALL SPECIFIC SAF CURRENT EDITION OF THE NEC. |
| | AND CERTIFICATES OF INSPECTION IN CONNECTION WITH HIS WORK, REQUIRED BY THE FOREGOING AUTHORITIES. BEFORE FINAL PAYMENT OF THE CONTRACT IS | 2. CHECK THE HVAC AND PLUMBING |
| | ALLOWED, ALL CERTIFICATES SHALL BE DELIVERED TO THE ARCHITECT IN | INCLUDE THE SAME IN THE CONT 3. EQUIPMENT CONNECTIONS, STARTE |
| 4. | DUPLICATE. ELECTRICAL MATERIAL AND EQUIPMENT SHALL BEAR THE UL LABEL EXCEPT | AND PUSHBUTTON STATIONS FOR A SEPARATE CONTRACT SHALL BE |
| SHO | WHERE UL DOES NOT LABEL SUCH TYPES OF MATERIAL AND EQUIPMENT. P DRAWINGS SUBMITTALS | INDICATED ON THE CONTRACT DR/ |
| | THE ELECTRICAL CONTRACTOR SHALL SUBMIT FIVE (5) SETS OF SHOP DRAWINGS. | 4. ALL CUTTING, PATCHING, EXCAVATI CONTRACT WLL BE THE RESPONS |
| | THE SHOP DRAWINGS OF THE FOLLOWING EQUIPMENT USING THE INDICATED NUMBERING SYSTEM AND TITLES, SHALL BE SUBMITTED THROUGH THE ARCHITECT | CONTRACTOR SHALL ASSUME THE AND OPENINGS NECESSARY FOR |
| | TO THE ENGINEER AND THEN RESUBMITTED FOR FINAL APPROVAL, IF NECESSARY. SHOP DRAWINGS SHALL BE SUBMITTED FOR THE FOLLOWING ITEMS: | AN ACCEPTABLE MANNER, AS DET CORE-DRILLED. PROVIDE FIRE S |
| | a. WIRING DEVICES b. PANELBOARDS AND SAFETY SWITCHES INCLUDING FAULT CURRENT STUDY | WALLS, FLOORS OR CEILINGS. |
| | BASED ON EQUIPMENT BEING SUPPLIED. | 5. THIS CONTRACTOR SHALL BE RES NECESSARY FOR HIS WORK, COOL |
| | c. CONTACTORS, TIME SWITCHES AND PHOTOCELL d. LIGHTING FIXTURES | D. MATERIALS AND WORKMANSHIP 1. ALL WORK SHALL BE INSTALLED |
| n | e. SUPERVISORY ALARM SYSTEM | MECHANICS SKILLED IN THE SEVE |
| ۷. | ALL SUBMITTED SHOP DRAWINGS (MANUFACTURERS "EQUIPMENT DESCRIPTIVE SHEETS OR VENDORS" PREPARED DRAWINGS) SHALL HAVE THE GENERAL | 2. ALL MATERIALS SHALL BE NEW AN THEIR SEVERAL KINDS UNLESS SI |
| | CONTRACTOR'S OR SUBCONTRACTOR'S "STAMP OF APPROVAL" INDICATING THAT THE ITEM SUBMITTED IS AS CALLED FOR ON THE PLANS AND SPECIFICATIONS, IS | CONTRARY. 3. DURING EACH PHASE AND AT THE |
| | APPROVED BY THE GENERAL CONTRACTOR OR SUBCONTRACTOR, THE DATE OF | SHALL REMOVE ALL DEBRIS AND |
| | APPROVAL AND INITIALED BY THE PERSON APPROVING THE SUBMITTAL AND THE NAME OF THE COMPANY SUBMITTING SAID EQUIPMENT FOR APPROVAL. | LEAVE THE AREA OF OPERATION 4. ALL ELECTRICAL EQUIPMENT SHAL |
| 3. | SUBMIT BOUND BROCHURES COMPLETE WITH A TABLE OF CONTENTS. LOOSE OR STAPLED TOGETHER SHEETS ARE NOT ACCEPTABLE. ANY SUBMITTALS NOT IN | LABEL. 5. THIS CONTRACTOR SHALL GUARAN |
| | | |
| | BROCHURE FORM OR NOT AS SPECIFIED SHALL BE RETURNED AT THE | FOR A PERIOD OF ONE YEAR FR |
| 4. | CONTRACTOR'S EXPENSE FOR RESUBMITTAL. ALL DESCRIPTIVE LITERATURE SHALL BE SUBMITTED IN A THREE (3) HOLE | FOR A PERIOD OF ONE YEAR FR WORK IN PERFECT ORDER AT TH GUARANTEE PERIOD, THE CONTRA |
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JLD THE CONTRACTOR PROPOSE TO FURNISH MATERIALS AND EQUIPMENT <u>THAN THOSE SPECIFIED OR APPROVED BY ADDENDUM, SUBMIT A WRITTEN</u> EST FOR SUBSTITUTIONS TO THE ARCHITECT AT THE BID OPENING. EST SHALL BE AN ALTERNATE TO THE ORIGINAL BID; BE ACCOMPANIED WITH PLETE DESCRIPTIVE (MANUFACTURER, BRAND NAME, CATALOG NUMBER, ETC.) TECHNICAL DATA FOR ALL ITEMS. FAILURE BY THIS CONTRACTOR TO IT THE REQUISITE DOCUMENTATION DETAILED ABOVE SHALL BE UNDERSTOOD HE ARCHITECT AND ENGINEER TO INDICATE THAT SUBSTITUTE EQUIPMENT NOT BE PRESENTED BY THE CONTRACTOR FOR CONSIDERATION. SUCH TITUTIONS WILL NOT BE CONSIDERED AFTER THE BID OPENING DATE AND OF PROJECT WILL NOT BE PERMITTED FOR FURTHER INSPECTION AND JATION AFTER THIS DATE.

RE SUCH SUBSTITUTIONS ALTER THE DESIGN OR SPACE REQUIREMENTS ATED ON THE DRAWINGS, INCLUDE ALL ITEMS OF COST FOR THE REVISED IN AND CONSTRUCTION INCLUDING COST OF ALL ALLIED TRADES INVOLVED. EPTANCE OR REJECTION OF THE PROPOSED SUBSTITUTIONS SHALL BE ECT TO APPROVAL OF THE ARCHITECT AND ENGINEER. IF REQUESTED, THE RACTOR SHALL SUBMIT (AT HIS COST) INSPECTION SAMPLES OF BOTH THE IFIED AND PROPOSED SUBSTITUTE ITEMS.

BEFORE THE INSTALLATION OF ANY ITEM BEGINS, THE ELECTRICAL CONTRACTOR SHALL CAREFULLY ASCERTAIN THAT IT DOES NOT INTERFERE WITH CLEARANCES FOR THE ERECTION OF FINISH BEAMS, COLUMNS, PILASTERS, WALLS OR OTHER STRUCTURAL OR ARCHITECTURAL MEMBERS AS SHOWN ON THE ARCHITECTURAL DRAWINGS. IF ANY WORK IS INSTALLED AND THE ARCHITECTURAL DESIGN CANNOT BE FOLLOWED, THIS CONTRACTOR SHALL, AT HIS OWN EXPENSE, MAKE CHANGES IN HIS WORK AS DIRECTED BY THE ARCHITECT TO PERMIT THE COMPLETION OF THE ARCHITECTURAL WORK IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS.

IT SHALL BE THE DUTY OF THIS CONTRACTOR TO REPORT ANY INTERFERENCES BETWEEN HIS WORK AND THAT OF ANY OF THE OTHER CONTRACTORS AS SOON AS THEY ARE DISCOVERED. THE ARCHITECT SHALL DETERMINE WHICH EQUIPMENT WILL BE RELOCATED, REGARDLESS OF WHICH WAS INSTALLED FIRST. HIS DECISION WILL BE FINAL.

ALL PRODUCTS SHALL BE NEW AND OF THE TYPE AND QUALITY SPECIFIED. WHERE MATERIALS, EQUIPMENT, APPARATUS OR OTHER PRODUCTS ARE SPECIFIED BY MANUFACTURER, BRAND NAME, TYPE OF CATALOG NUMBER, SUCH DESIGNATION SHALL ESTABLISH THE STANDARDS OF THE DESIRED QUALITY AND STYLE, IT IS THE INTENT OF THESE SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY OF MATERIALS AND EQUIPMENT INSTALLED.

TRICAL MATERIALS AND METHODS

GENERAL: FURNISH AND MOUNT ON EACH PANELBOARD, SWITCHBOARD (INCLUDING BRANCH SWITCHES), LARGE JUNCTION BOX, SAFETY SWITCH, STARTER, REMOTE CONTROL, PUSH BUTTON STATION, AND ALL SIMILAR CONTROLS, A NAMEPLATE DESCRIPTIVE OF THE

EQUIPMENT OR EQUIPMENT CONTROLLED. PROVIDE BLACK AND WHITE NAMEPLATES CONSTRUCTED FROM LAMINATED PHENOLIC WITH A WHITE CENTER CORE. LETTERS SHALL BE ENGRAVED IN THE PHENOLIC TO FORM WHITE LETTERS 3/8" HIGH. FASTEN THE NAMEPLATES WITH SCREWS AND AN ADHESIVE TYPE

ING ACCESSORIES THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL ANGLE IRON, CHANNEL IRON, RODS, SUPPORTS, HANGERS, CONCRETE OR PLYWOOD REQUIRED TO INSTALL, MOUNT AND SUPPORT ANY ELECTRICAL EQUIPMENT OR DEVICE CALLED FOR ON THE PLANS. SUPPORTING MATERIAL SHALL BE COMPLETE WITH HANGERS, CONNECTORS, BOLTS, CLAMPS AND NECESSARY ACCESSORIES TO MAKE A COMPLETE INSTALLATION. SUPPORTING MATERIAL SHALL BE GALVANIZED, PAINTED OR OTHERWISE SUITABLY FINISHED. PRODUCTS

BY BRINKLEY, STEEL CITY OR RACO WILL BE ACCEPTABLE. ALL SURFACE-MOUNTED EQUIPMENT ON BLOCK WALLS SHALL BE MOUNTED ON 3/4" PLYWOOD BACKBOARD. ALL FLOOR-MOUNTED EQUIPMENT SHALL BE INSTALLED ON A 4"

THE ELECTRICAL WORK FOR CONSTRUCTION PROPOSED SHALL CONFORM TO ALL FEDERAL (OSHA), STATE, ALL SPECIFIC SAFETY REQUIREMENTS AND THE REQUIREMENTS OF THE CURRENT EDITION OF THE NEC.

CHECK THE HVAC AND PLUMBING SPECIFICATIONS FOR ELECTRICAL REQUIREMENTS AND INCLUDE THE SAME IN THE CONTRACT COST.

EQUIPMENT CONNECTIONS, STARTERS, DISCONNECT SWITCHES, CONTROL TRANSFORMERS AND PUSHBUTTON STATIONS FOR THE EQUIPMENT FURNISHED BY THE OWNER OR UNDER A SEPARATE CONTRACT SHALL BE INSTALLED AND CONNECTED UNDER THIS DIVISION, AS INDICATED ON THE CONTRACT DRAWINGS.

ALL CUTTING, PATCHING, EXCAVATING, BACKFILLING AND CONCRETE WORK RELATED TO THIS CONTRACT WLL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR. THIS CONTRACTOR SHALL ASSUME THE RESPONSIBILITY OF PROVIDING THE SLEEVES. CHASES AND OPENINGS NECESSARY FOR THE ELECTRICAL INSTALLATION AND FOR THEIR REPAIR IN AN ACCEPTABLE MANNER, AS DETERMINED BY THE ARCHITECT. ALL HOLES SHALL BE

CORE-DRILLED. PROVIDE FIRE STOP IN ALL OPENINGS CREATED THROUGH FIRE-RATED WALLS, FLOORS OR CEILINGS. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED ACCESS PANELS NECESSARY FOR HIS WORK. COORDINATE WITH ARCHITECT PRIOR TO INSTALLATION.

ALS AND WORKMANSHIP ALL WORK SHALL BE INSTALLED IN A PRACTICAL AND WORKMANLIKE MANNER, BY MECHANICS SKILLED IN THE SEVERAL TRADES NECESSARY.

ALL MATERIALS SHALL BE NEW AND FREE FROM DEFECTS AND SHALL BE THE BEST OF THEIR SEVERAL KINDS UNLESS SPECIFIED OR INDICATED ON THE DRAWINGS TO THE

DURING EACH PHASE AND AT THE COMPLETION OF THE CONSTRUCTION, THIS CONTRACTOR SHALL REMOVE ALL DEBRIS AND EXCESS MATERIALS CAUSED BY HIS WORK. HE SHALL LEAVE THE AREA OF OPERATION BROOM CLEAN. ALL ELECTRICAL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OR ETL

THIS CONTRACTOR SHALL GUARANTEE HIS WORKMANSHIP AND MATERIAL (LAMPS EXCEPTED) FOR A PERIOD OF ONE YEAR FROM THE DATE OF BUILDING OPENING AND LEAVE HIS WORK IN PERFECT ORDER AT THE COMPLETION. SHOULD DEFECTS DEVELOP WITHIN THE GUARANTEE PERIOD, THE CONTRACTOR SHALL, UPON NOTICE OF THE SAME, REMEDY THE DEFECTS AND HAVE ALL DAMAGES TO OTHER WORK OR FURNISHINGS CAUSED BY THE REPAIRS CORRECTED AT HIS EXPENSE TO THE CONDITION BEFORE SUCH DAMAGE.

THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, STORAGE, UNPACKING AND PLACEMENT; TO INCLUDE BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS: ELECTRICAL REVISIONS IN RENOVATION SPACE.

BRANCH CIRCUIT WIRING SYSTEM FOR NEW DEVICES. LIGHTING FIXTURE INSTALLATION.

TEMPORARY ELECTRICAL POWER AND LIGHTING AS REQUIRED FOR CONSTRUCTION. TESTING OF ALL CABLES AND CIRCUIT WIRING AFTER INSTALLATION. WIRING DEVICES.

EXTENSION OF EXISTING FIRE ALARM SYSTEM TO NEW DEVICES.

OLOR CODE CONDUCTORS (EXCEPT CONTROL AND INSTRUMENTATION ONDUCTORS) AS FOLLOWS: 80/277V SYSTEM=PHASE A BROWN; PHASE B ORANGE; PHASE C YELLOW;

IEUTRAL GREY; GROUND GREEN W/YELLOW STRIPE. 208/120V SYSTEM=PHASE A BLACK; PHASE B RED; PHASE C BLUE; EUTRAL WHITE; GROUND GREEN.

#12 AND #10 CONDUCTORS SHALL HAVE CONTINUOUS INSULATION COLOR, AS LISTED ABOVE. 2. COLOR CODE CONDUCTORS LARGER THAN ABOVE, WHICH DO NOT

HAVE CONTINUOUS INSULATION COLOR BY APPLICATION OF AT LEAST TWO LAPS OF COLORED TAPE ON EACH CONDUCTOR AT ALL POINTS OF ACCESS INCLUDING JUNCTION BOXES. COLOR TAPE SHALL BE THE EQUAL OF 3M PRODUCTS SCOTCH #35.

3. CONDUCTORS SHALL BE SOFT ANNEALED COPPER (EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE) INSULATED FOR 600 VOLTS UNLESS SPECIFICALLY INDICATED OTHERWISE.

SULATION TYPE SHALL BE TYPE THWN FOR WIRE SIZES #8 AWG AND ARGER AND THHN OR THWN FOR #10AWG AND SMALLER. THHN SHALL NOT BE USED IN WET OR DAMP LOCATIONS. PROVIDE #12 CONDUCTORS, UNLESS OTHERWISE INDICATED.

CONTROL CONDUCTORS SHALL BE #14 MINIMUM FOR NEC CLASS I AND #16 FOR NEC CLASS II.

CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID.

- INSTALL WIRING IN CONDUIT. CONCEALED WIRING IN WALLS OR ABOVE CEILINGS, OR EXPOSED IN UNFINISHED AREAS (WHERE NOT SUBJECT TO PHYSICAL DAMAGE) MAY BE RUN IN MC OR AC CABLE
- CONNECT #10 AND SMALLER WIRES WITH CONSTANT PRESSURE EXPANDABLE SPRING TYPE CONNECTORS, "SCOTCHLOK" BY 3M OR B-CAP BY BUCHANAN.
- CONNECT #8 AND LARGER WIRES WITH COMPRESSION CONNECTORS OR SPLICES AS MANUFACTURED BY BURNDY OR T&B.
- INSULATE SPLICING CONNECTORS TO AT LEAST 200% OF THE WIRE INSULATION. USE PRE-STRETCHED TUBING CONNECTOR INSULATORS, 3M PST FOR #2 AND LARGER CONDUCTORS.
- J. PULL CONDUCTORS USING RECOGNIZED METHODS AND EQUIPMENT LEAVING AT LEAST 6" WIRE AT ALL JUNCTION BOXES FOR CONNECTIONS.
- 1. CLEANOUT EACH CONDUIT SYSTEM BEFORE PULLING WIRE. FORM AND TIE ALL WIRING IN PANELBOARDS.
- THERE SHALL BE NO WIRENUT JOINTS OR SPLICES MADE INSIDE SWITCHBOARDS/PANELBOARDS. M. BRANCH CIRCUIT WIRE SIZES (AND CONDUITS) SHALL BE INCREASED
- FROM THOSE INDICATED ON THE PLANS TO PREVENT EXCESSIVE VOLTAGE DROP. BRANCH CIRCUITS SHALL BE INSTALLED WITH WIRES OF SUFFICIENT SIZE SO THAT VOLTAGE DROP BETWEEN THE PANEL AND THE LOADS DOES NOT EXCEED LIMIT OF 3%.
- WIRE SIZES SHALL BE BASED ON THE 60 DEGREES C. AMPACITIES FOR WIRE SIZES NO. 14-1 A.W.G., AND 75 DEGREES C. AMPACITIES FOR WIRE SIZES #1/0 A.W.G. AND LARGER.
- O. PROVIDE GROUNDING OF ALL BRANCH CIRCUITS SERVING PATIENT CARE AREAS PER NEC SECTION 517.13.

RACEWAYS AND BOXES A. RACEWAYS

- 1. ALL WIRE SHALL BE RUN IN ACCORDANCE WITH CODE IN CORROSION RESISTANT, RIGID, THREADED, METAL CONDUIT OR ELECTRICAL METALLIC TUBING (E.M.T.) UNLESS OTHERWISE SPECIFICALLY STATED HEREIN.
- 2. CONDUIT SIZE SHALL BE 3/4" MINIMUM. CONDUIT SHALL BE SECURELY FASTENED IN PLACE.
- 4. ALL CONDUIT SHALL BE CONCEALED IN WALLS, FLOOR AND CEILINGS WHEREVER POSSIBLE. EXPOSED CONDUIT IN FINISHED AREAS WILL NOT BE PERMITTED, USE SURFACE RACEWAY (WIREMOLD V500 SERIES) FOR NEW DEVICES AT EXISTING BLOCK WALL CONSTRUCTION. EXPOSED CONDUIT WILL BE PERMITTED IN UNFINISHED AREAS WITH
- THE SPECIFIC APPROVAL OF THE ARCHITECT. 5. USE FLEXIBLE CONDUIT FOR THE CONNECTION TO RECESSED OR SEMI-RECESSED LIGHTING FIXTURES (6' LENGTH MAXIMUM). USE LIQUID TIGHT METAL CONDUIT FOR ALL CONNECTIONS TO MOTORS AND OTHER EQUIPMENT SUBJECT TO VIBRATION AND IN AREAS SUBJECT TO MOISTURE.
- 6. USE WATERTIGHT JOINTS WITH BURIED AND CONCRETE ENCASED CONDUIT. ALL BURIED CONDUITS OUTSIDE OF BUILDINGS SHALL HAVE A MINIMUM OF 24" OF COVER. METAL CONDUITS BURIED IN EARTH SHALL BE PAINTED (TWO COATS) WITH HEAVY ASPHALTUM PAINT
- 7. SUPPORT RUNS OF CONDUIT AS DETAILED IN THE APPROPRIATE TABLE OF THE NATIONAL ELECTRICAL CODE (NEC). 8. INSTALL EXPOSED RUNS OF CONDUIT AND CONDUIT ABOVE LAY-IN
- CEILINGS PARALLEL OR PERPENDICULAR TO THE WALLS, STRUCTURAL MEMBERS OF INTERSECTIONS OF VERTICAL PLANES AND CEILINGS. PROVIDE RIGHT ANGLE TURNS USING FITTINGS OR SYMMETRICAL BENDS. SUPPORT CONDUITS WITHIN 1" OF ALL CHANGES IN DIRECTION.
- 9. IF A CONDUIT IS SUSPENDED, IT SHALL BE SUPPORTED ON TRAPEZE HANGERS WHICH USE "ALL-THREAD" RODS FROM THE STRUCTURAL STEEL. THE USE OF CEILING SUPPORT WIRE OR SIMILAR MATERIAL WILL NOT BE ACCEPTED.
- 10. INSTALL EMPTY CONDUIT FOR FUTURE USE AS INDICATED ON THE DRAWINGS. CONDUIT SHALL BE COMPLETE WITH JETLINE OR PULL ROPE, JUNCTION/OUTLET BOXES, TILE RINGS AND APPROPRIATE COVER PLATES.
- 11. PROVIDE PITCHPOCKETS WHERE CONDUITS PENETRATE THE ROOF. 12. THREAD LUBRICATION/SEALANT IS REQUIRED ON OUTDOOR AND UNDERGROUND THREADED METAL JOINTS.
- 13. INSTALL FIRE SEAL FITTINGS WHERE CONDUITS PENETRATE CONCRETE FLOOR SLABS OR MASONRY WALLS REQUIRED TO BE FIRE RATED. 14. HORIZONTAL PORTION OF CONDUIT EXPOSED ON THE ROOF AND
- FEEDING EQUIPMENT SHALL NOT BE MORE THAN 5'-O" UNLESS THE WRITTEN APPROVAL FROM ARCHITECT OR ENGINEER IS OBTAINED. B. PULL AND JUNCTION BOXES
- INSTALL PULL AND JUNCTION BOXES WHERE SHOWN ON THE DRAWINGS, AND WHERE REQUIRED FOR CHANGES IN DIRECTION, AT JUNCTION POINTS, AND TO FACILITATE WIRE PULLING. FURNISH BOX SIZES IN ACCORDANCE WITH NEC UNLESS LARGER BOXES ARE INDICATED.
- 2. PROVIDE STEEL BOXES AND REMOVABLE COVERS OF CODE GAGE, HOT ROLLED SHEET STEEL, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE, FOR ABOVE GROUND WORK. FURNISH WEATHERPROOF BOXES WHEN INSTALLED ABOVE GROUND OUTSIDE.
- 3. PROVIDE CAST IRON BOXES, HOT DIPPED GALVANIZED INSIDE AND OUTSIDE WHERE SHOWN ON THE DRAWINGS. FURNISH REMOVABLE COVERS WITH GASKETS AND STAINLESS STEEL, BRASS OR BRONZE SCREWS.
- 4. PROVIDE CONCRETE BOXES FOR UNDERGROUND WORK UNLESS OTHERWISE INDICATED ON THE DRAWINGS. FURNISH STEEL FRAMES AND COVERS WITH THE COVER ATTACHED TO THE FRAME WITH HEXAGON HEAD, BRASS OR BRONZE CAP SCREWS, 3/8" DIAMETER. PROVIDE A RUBBER GASKET FOR SEALING BETWEEN THE COVER AND THE FRAME. PAINT THE COVER WITH TWO COATS OF HEAVY ASPHALTUM.

C. OUTLET BOXES

1. USE SHEET STEEL BOXES, ZINC COATED OR CADMIUM PLATED, FOR CONCEALED INTERIOR WORK. 2. USE CAST BOXES, ZINC-CADMIUM FINISH MALLEABLE IRON, FOR

- EXPOSED INTERIOR WORK, AND FOR EXPOSED OR CONCEALED WORK IN WET, DAMP OR EXTERIOR LOCATIONS. CAST BOXES SHALL BE SERIES FD BY CROUSE HINDS OR APPLETON.
- 3. WALL BOX SIZES (MINIMUM) SHALL BE 4" SQUARE $\times 2-1/2$ " DEEP WHERE WALL CONSTRUCTION PERMITS. WHERE WALL CONSTRUCTION DICTATES, THE WIDTH MAY BE REDUCED TO 2-1/8" OR 1-1/2" UNDER SPECIAL CONDITIONS.
- 4. FIXTURE OUTLETS IN CEILINGS (MINIMUM) SHALL BE 4" OCTAGONAL x 1-1/2" DEEP (4-11/16" OCTAGONAL x 2-1/2" DEEP WHERE REQUIRED TO ACCOMMODATE LARGER CONDULT OR LARGER NUMBER OF WIRES).
- 5. GANG BOXES SHALL BE ONE PIECE (MINIMUM), 2-1/8" DEEP. 6. FLUSH MOUNT BOXES IN ALL FINISHED WALLS. INSTALL THE PLASTER RINGS IN DRYWALLED PLASTERED WALLS AND RAISED COVERS AS REQUIRED IN WALLS WITH OTHER FINISHES SO THAT THE COVER PLATES FIT TIGHTLY AGAINST BOXES OR RINGS, 3/16" MAXIMUM GAPS ARE ALLOWED FOR NONCOMBUSTIBLE WALLS.

ADJUST LOCATION OF OUTLETS IN MASONRY OR TILE CONSTRUCTION TO OCCUR IN THE NEAREST JOINT TO THE HEIGHT SPECIFIED. HEIGHTS SHALL MEET A.D.A. REQUIREMENTS. SUPPORT ALL BOXES TO MAINTAIN PROPER ALIGNMENT AND RIGIDITY. CLEAN BOXES OF ALL FOREIGN MATTER PRIOR TO THE INSTALLATION

- OR WIRING OF DEVICES. WIRING DEVICES
- A. WIRING DEVICE COLOR SHALL BE BLACK, UNLESS OTHERWISE INDICATED.
- PROVIDE NEMA CONFIGURATION 5-15R DUPLEX 125 VOLT GROUNDING TYPE RECEPTACLES RATED FOR 15 AMPERES UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
- RECEPTACLES REQUIRING AMPERAGES, VOLTAGES OR CONFIGURATIONS DIFFERENT FROM THE DUPLEX CONVENIENCE RECEPTACLES ABOVE SHALL BE AS INDICATED ON THE DRAWINGS.
- PROVIDE OTHER RECEPTACLES OF A QUALITY, MATERIAL AND WORKMANSHIP EQUAL TO THAT SPECIFIED FOR DUPLEX CONVENIENCE RECEPTACLES.
- PROVIDE COVER OR DEVICE PLATES FOR OUTLET BOXES AS FOLLOWS UNLESS OTHERWISE NOTED:
- 1. FINISHED AREAS: STAINLESS STEEL 2. UNFINISHED AREAS: ZINC COATED SHEET METAL. ALUMINUM.

DIMENSION OF RECEPTACLES SHALL BE VERTICAL.

- OR CAST METAL, AS APPROPRIATE FOR THE TYPE OF BOX. 3. EXTERIOR AREAS: COPPER FREE ALUMINUM WITH GRAY, POWDER EPOXY FINISH, GASKET, WEATHERPROOF,
- CROUSE-HINDS "WLRD" FOR DUPLEX RECEPTACLES AND WLRS FOR SINGLE RECEPTACLES OR EQUAL. 4. WHERE DEVICES ARE GANGED, THEY SHALL BE INSTALLED
- UNDER A COMMON COVERPLATE. LOCATE THE SWITCHES APPROXIMATELY 4'-0" ABOVE THE FINISHED FLOOR ELEVATION OR NEAREST BLOCK COURSE (WITHIN A.D.A. REQUIREMENTS), UNLESS OTHERWISE INDICATED. THE LONG DIMENSION OF THE SWITCHES SHALL BE VERTICAL. LOCATE RECEPTACLES APPROXIMATELY 1"-6" ABOVE THE FINISHED FLOOR ELEVATION OR NEAREST BLOCK COURSE (WITHIN A.D.A. REQUIREMENTS), UNLESS NOTED OTHERWISE. THE LONG
- LIGHTING FIXTURES
- A. ALL LIGHTING FIXTURES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE ON DRAWING N-1, INCLUDING LAMPS. LAMPS SHALL BE OF SAME MANUFACTURER FOR ALL TYPES.
- B. ALL FIXTURES SHALL BEAR THE UNDERWRITER'S LABORATORIES LABEL AND SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
- DRIVERS FOR LED FIXTURES SHALL BE INTEGRAL TO THE LIGHTING FIXTURF. D. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY SUPPORT MEDIA FOR ALL LIGHTING FIXTURES INCLUDING
- STRUCTURAL STEEL, ANGLE, RODS, ETC. IN GENERAL, ALL FIXTURES SHALL BE SUPPORTED IN A MANNER ACCEPTABLE TO THE LOCAL INSPECTION AUTHORITIES. ALL FIXTURES SHALL BE FIRMLY SUPPORTED FROM BEAMS OR JOISTS. 1. PROVIDE ALL NECESSARY BACKING, BLOCKING AND SUPPORTS FOR WALL MOUNTED FIXTURES.
- 2. FIXTURES SHALL NOT BE SUPPORTED FROM ROOF DECK. G. ALL FIXTURES SHALL BE U.L. LISTED AND APPROVED FOR THE PURPOSE INTENDED.
- RECESSED FIXTURES IN FIRE RATED CEILING OR SUPPLY AIR PLENUMS SHALL BE APPROVED FOR THE FIRE RATING OF THE CEILING. PROVIDE AIR-TIGHT GASKETS TO SEAL AROUND OPENINGS.
- ALL ADJUSTABLE FIXTURES SHALL BE AIMED AND ADJUSTED DURING EVENING HOURS TO THE SATISFACTION OF THE ARCHITECT.

FIRE ALARM

- MANUFACTURER ALL NEW DEVICES SHALL BE COMPATIBLE WITH EXISTING
- NOTIFIER SYSTEM. CONNECT NEW DEVICES TO EXISTING INDICATING CIRCUITS. VERIFY WITH NOTIFIER OR THEIR AGENT THAT EXISTING CIRCUITS CAN SUPPORT ADDITIONAL DEVICES. AND PROVIDE NEW POWER SUPPLIES/DEVICES IF REQUIRED TO SUPPORT NEW DEVICES.

