REROOFING AND RELATED WORK: FOR:

AREA F WILLIAM H. HALL HIGH SCHOOL

975 NORTH MAIN STREET

LIST OF DRAWINGS:

COVER SHEET

R-2

R-3

ABATEMENT DRAWINGS

H-1 ROOF F ABATEMENT PLAN

STRUCTURAL DRAWINGS

S-1 NEW WORK FRAMING PLAN AND DETAILS

ARCHITECTURAL DRAWINGS

PARTIAL DEMOLITION AND NEW WORK ROOF PLANS PARTIAL SECTIONS AND PARTIAL REFLECTED CEILING PLAN DETAILS

MECHANICAL PLUMBING. AND FIRE PROTECTION DRAWINGS

FIRE PROTECTION PLAN AND SPECIFICATIONS FP-1

M-1 MECHANICAL SPECIFICATIONS MECHANICAL PARTIAL PLANS M-2

MP-1 MECHANICAL AND PLUMBING DEMOLITION AND NEW WORK ROOF PLANS

ELECTRICAL DRAWINGS

ELECTRICAL LEGENDS NOTES AND SCHEDULES E-0

DEMOLITION AND NEW WORK ROOF ELECTRICAL PART PLANS E-1

ELECTRICAL LIGHTING PART PLANS E-2 ELECTRICAL SPECIFICATIONS E-4

WEST HARTFORD, CONNECTICUT

APRIL 3, 2020 **LOCATION MAP: ARCHITECT:** Branch State JACUNSKI HUMES ccess Area ARCHITECTS, LLC **CONSULTANTS:** University Wampanoag of Hartford Country Club Hartford Golf Club RZ Design Associates, Ind Albany Ave (189) (44) (44) (44) MACCHI NGINEERS LLC Elizabeth Park 😝 Conservancy EnvíroMed $\bigstar PROJECT LOCATION$



JACUNSKI HUMES ARCHITECTS, LLC 15 MASSIRIO DRIVE, SUITE 101 BERLIN, CONNECTICUT 06037 TEL 860-828-9221 FAX 860-828-9223

P/FP/M/E Engineer

RZ Design Associates, Inc. 750 Old Main Street, Suite 202 Rocky Hill, CT 06067 Tel: 860-436-4336 Fax: 860-436-4450

Structural Engineer

Macchi Engineers, LLC 41 Gillett Street Hartford, CT 06105 Tel: 860-549-6190 Fax: 860-524-5088

Industrial Hygienist

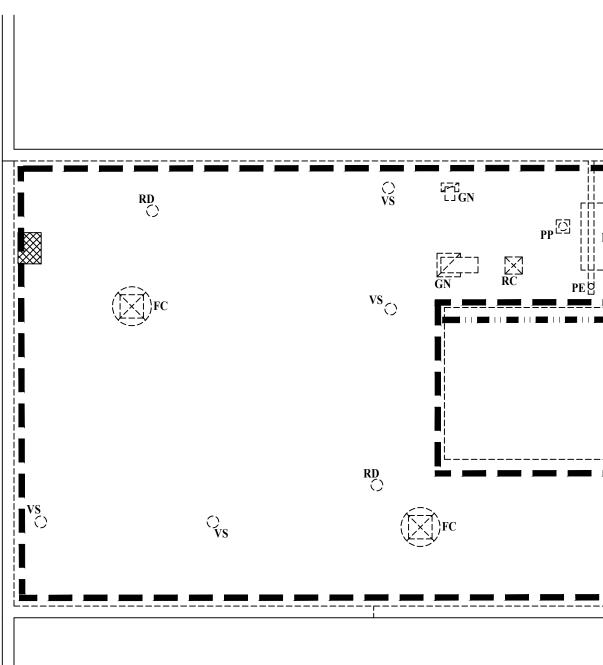


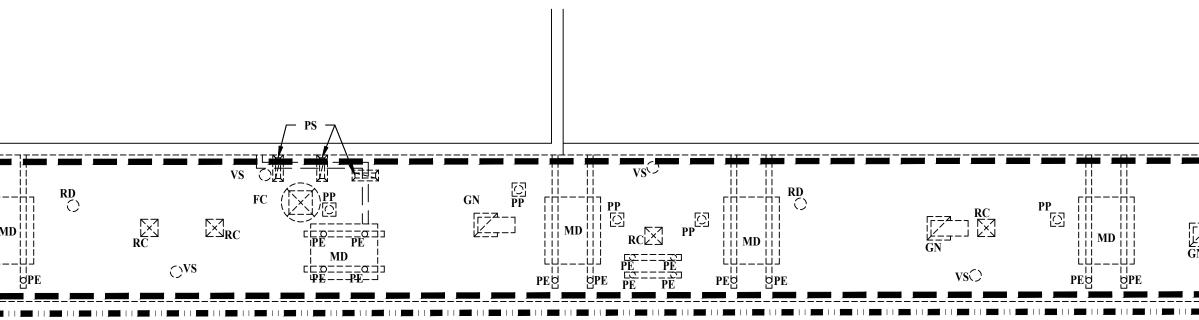
EnviroMed Services, Inc. 470 Murdoch Avenue Meriden, CT 06450 Tel: 203-238-4846 Fax: 203-238-4243

GENERAL NOTES

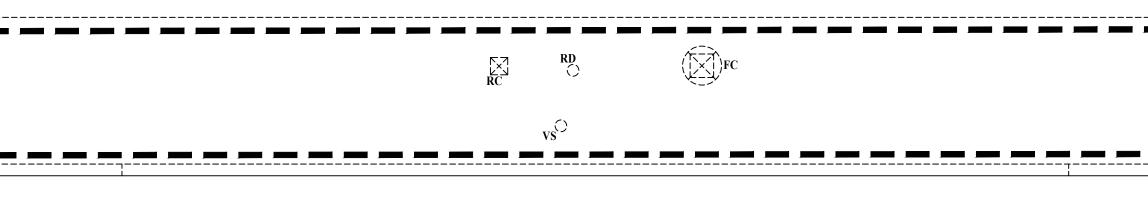
1. CONDUCT ASBESTOS ROOFING ABATEMENT ONLY WHEN NO CHILDREN UNDER AGE 18 ARE IN THE SCHOOL BUILDING OR ON THE SCHOOL GROUNDS.

| | ABATEMENT | PLAN | LEGEND |
|----|---|------|--------------------------|
| FC | FAN ON CURB – REMOVE AND DISPOSE OF ASBESTOS-CONTAINING FLASHING ON CURB AND 18" OUT INTO MAIN FIELD ROOFING. | | PS PIPE SUPPORT - |
| GN | GOOSENECK DUCT RISER – REMOVE AND DISPOSE OF ASBESTOS-CONTAINING FLASHING ON CURB AND 18" OUT INTO MAIN FIELD ROOFING. | | RC ROOF CURB WITH |
| MD | MECHANICAL UNIT ON DUNNAGE – NO ASBESTOS ABATEMENT AT DUNNAGE. | | rd Roof Drain – Re Cf |
| PP | PITCH POCKET – REMOVE AND DISPOSE OF PITCH POCKET WITH ASBESTOS-CONTAINING ROOFING CEMENT. | | VS VENT STACK – N |
| PE | PIPE PENETRATION (DUNNAGE) – REMOVE AND DISPOSE OF ASBESTOS–CONTAINING ROOFING CEMENT ON PIPE PENETRATION. | | |
| | | | |
| | | | |



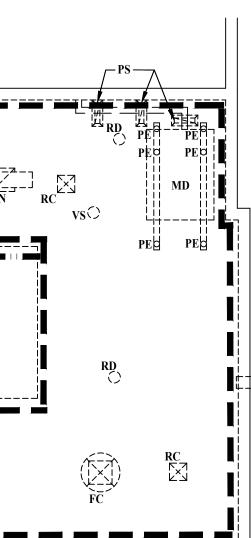


CLEARASTORY WINDOW & ROOFING SCHEDULED TO BE REMOVED





| BUILDING KEY PLAN | ABAT | OF F EMEN1 LAN |
|---------------------|---------------------|----------------------|
| AREA F ROOF N | PROJ. NO. JH1905 | DRAWING NO. |
| | SCALE As Noted | U U 1 |
| | DATE | |



REMOVE AND DISPOSE OF 2'X120' SECTION OF ASBESTOS-CONTAINING CEMENT PLASTER SOFFIT IN CLEARASTORY STRUCTURE. REMOVE PLASTER USING A NEGATIVE PRESSURE ENCLOSURE IN COMPLIANCE WITH SECTION 02 82 16.

REMOVE AND DISPOSE OF ASBESTOS-CONTAINING FLASHING ON WALL OR CLEARASTORY AND 18" OUT INTO MAIN FIELD ROOFING.

NO ASBESTOS ABATEMENT AT VENT STACK.

REMOVE AND DISPOSE OF ASBESTOS-CONTAINING FLASHING AND ROOFING CEMENT ON ROOF DRAIN AND 18" OUT INTO THE MAIN FIELD ROOFING.

CURB AND 18" OUT INTO MAIN FIELD ROOFING.

H COVER – REMOVE AND DISPOSE OF ASBESTOS-CONTAINING FLASHING ON

- PIPE SUPPORT WITH ASBESTOS-CONTAINING ROOFING CEMENT. REMOVE SUPPORT AND DISPOSE AS ASBESTOS WASTE.

| SUBMISSIONS & REVISIONS MARK DATE DESCRIPTION 4/3/20 BIDDING RELEASE | K | <u></u> | 100F | NECTICUT |
|--|------|---------|--------------|----------|
| MARK DATE DESCRIPTION | | | | |
| MARK DATE DESCRIPTION | | | | |
| MARK DATE DESCRIPTION | | | | |
| | | 4/3/20 | BIDDING RELE | EASE |
| | MARK | | | ON |

WORK

ED

REL.

AND

6

 \mathbf{Z}

REROOF

CONNECTICUT

HARTFORD

ES

Ŕ

EET,

TR

AIN

975 NORTH

C

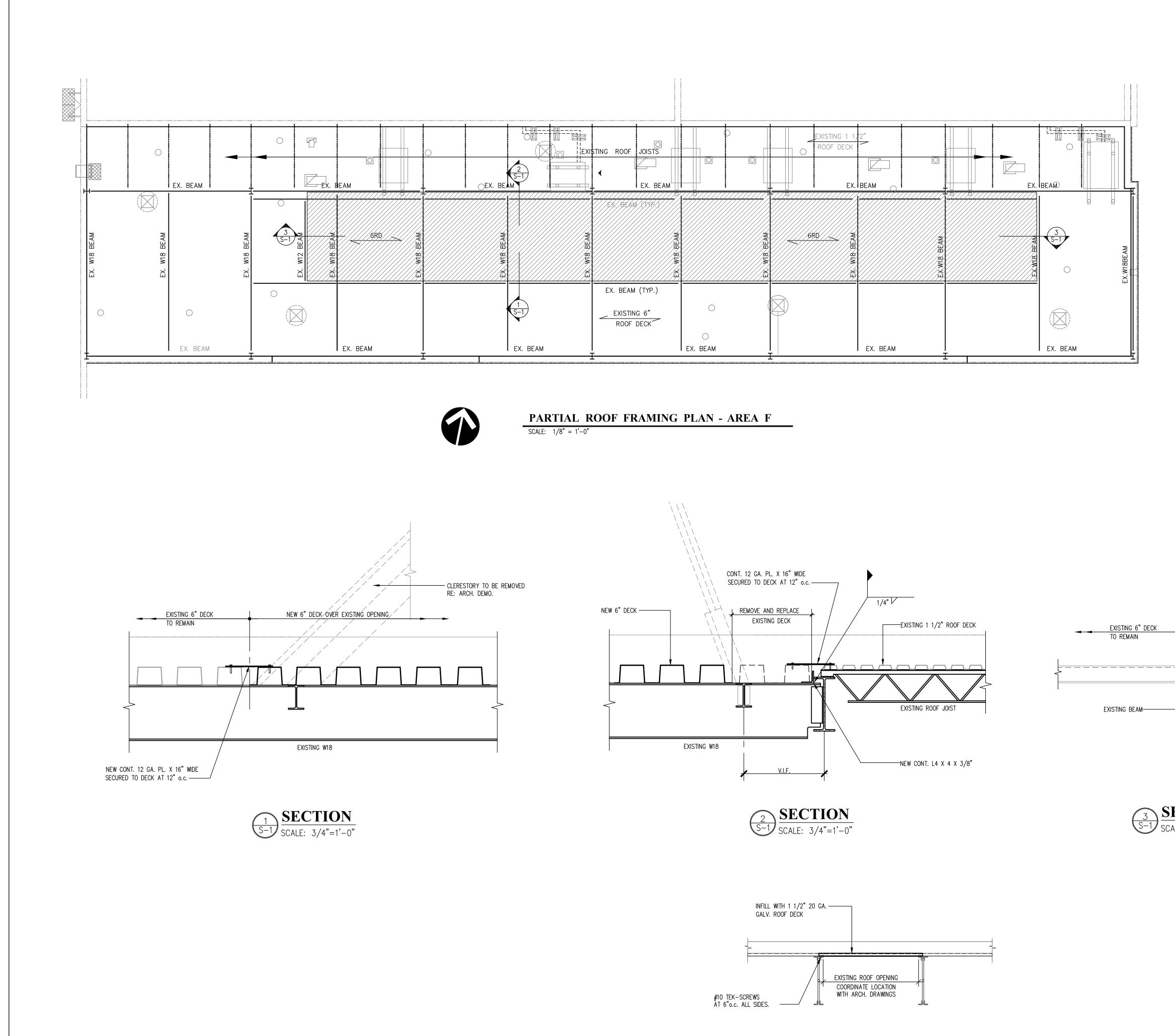
5

6

H.

ПМ

X



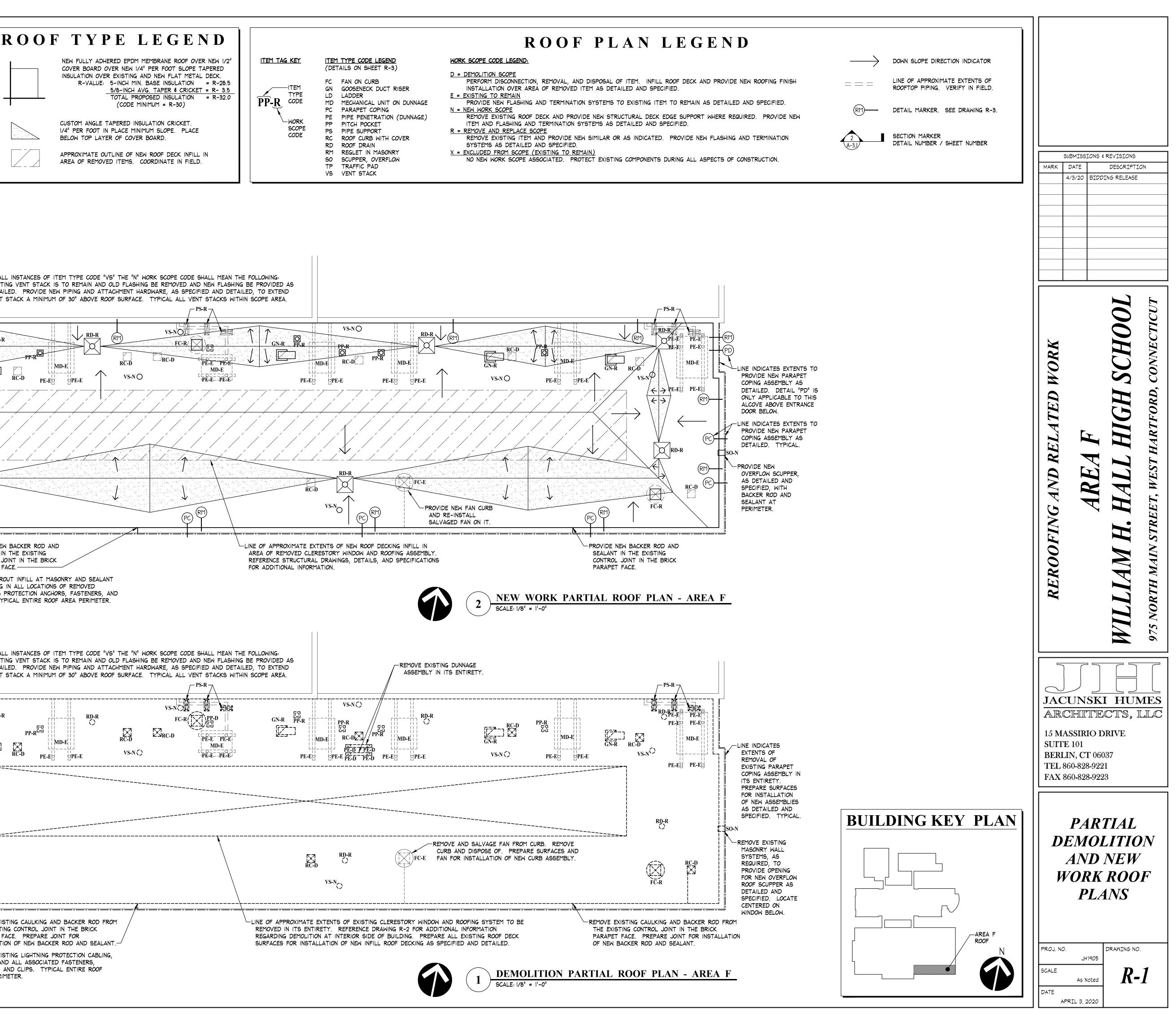
ROOF PATCH INFILL DETAIL

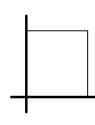
GENERAL NOTES A. STRUCTURAL STEEL 1. ALL DIMENSIONS AND ELEVATIONS ARE TO BE FIELD VERIFIED. 2. COORDINATE DEMOLITION WITH ARCHITECTURAL DRAWINGS. 3. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND IN ACCORDANCE WITH ALL AWS STANDARDS. 4. ALL WELDING TO BE PERFORMED USING E70-XX ELECTRODES. 44 Gillett Street Hartford, Connecticut 5. _ 6RD INDICATES DIRECTION DECK SPANS. Engineers (860) 549-6190 B. GENERAL SUBMISSIONS & REVISIONS 1. THE STORAGE OF MATERIALS ON ROOF DURING THIS WORK WILL IS PROHIBITED. MARK DATE DESCRIPTION 4/3/20 BIDDING RELEASE ----- INDICATES SECTION NUMBER S1 INDICATES SHEET NUMBER DESIGN DATA CODES AND STANDARDS USED 2018 CONNECTICUT BUILDING CODE 2015 INTERNATIONAL BUILDING CODE AMERICAN CONCRETE INSTITUTE BUILDING CODE (ACI-318-14) AMERICAN INSTITUTE OF STEEL CONSTRUCTION "ALLOWABLE STRESS DESIGN" CONNECTICUT (AISC-14TH EDITION, ANSI/AISC 360-10) 0 STEEL DECK INSTITUTE REQUIREMENTS Ó WORK STEEL DECK PROPERTIES \bigcirc ROOF DECK - 6RD 18 GA. H6 DECK (Fy = 40ksi) BY CANAM DECK OR APPROVED EQUAL. DECK TO BE PRIMED 5 IN ACCORDANCE WITH ASTM A1008. DECK TO BE SECURED TO EXISTING STEEL WITH HARTFORD Q HILTI X-U P8 POWER ACTUATED FASTENERS AT EVERY FLUTE. SIDE LAPS TO BE SECURED TE WITH No. 10 SCREWS AT 8"o.c. 6 \sim I REL TST AND M X TREET, 5 -REROOFI 975 NORTH MAIN ST IAM 3**"@** 12"o.c \overline{V} L NEW 6" DECK/OVER EXISTING OPENING MIL —SHIM AS REQUIRED JACUNSKI HUMES — WELD CONT. PL. 3/8" X 8" WIDE TO EXISTING BEAM ARCHITECTS, LLC 15 MASSIRIO DRIVE **SUITE 101 BERLIN, CT** 06037 $\underbrace{3}_{S-1} \underbrace{\text{SECTION}}_{SCALE: 3/4"=1'-0"}$ TEL 860-828-9221 FAX 860-828-9223 **BUILDING KEY PLAN** NEW WORK FRAMING PLAN AND DETAILS AREA F PROJ. NO. DRAWING NO. JH1905 SCALE **S-1** As Noted

DATE

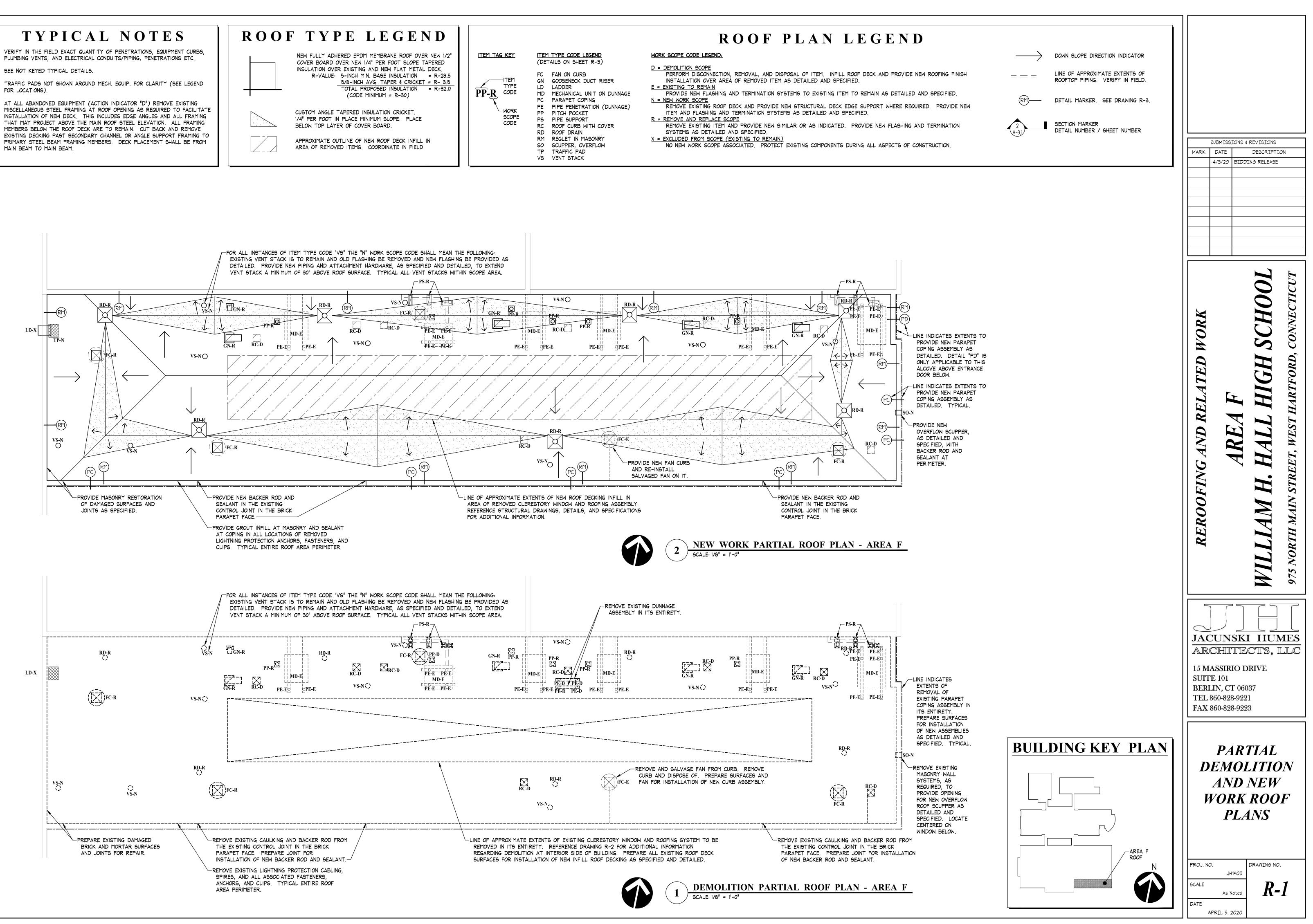
PLUMBING VENTS, AND ELECTRICAL CONDUITS/PIPING, PENETRATIONS ETC ...

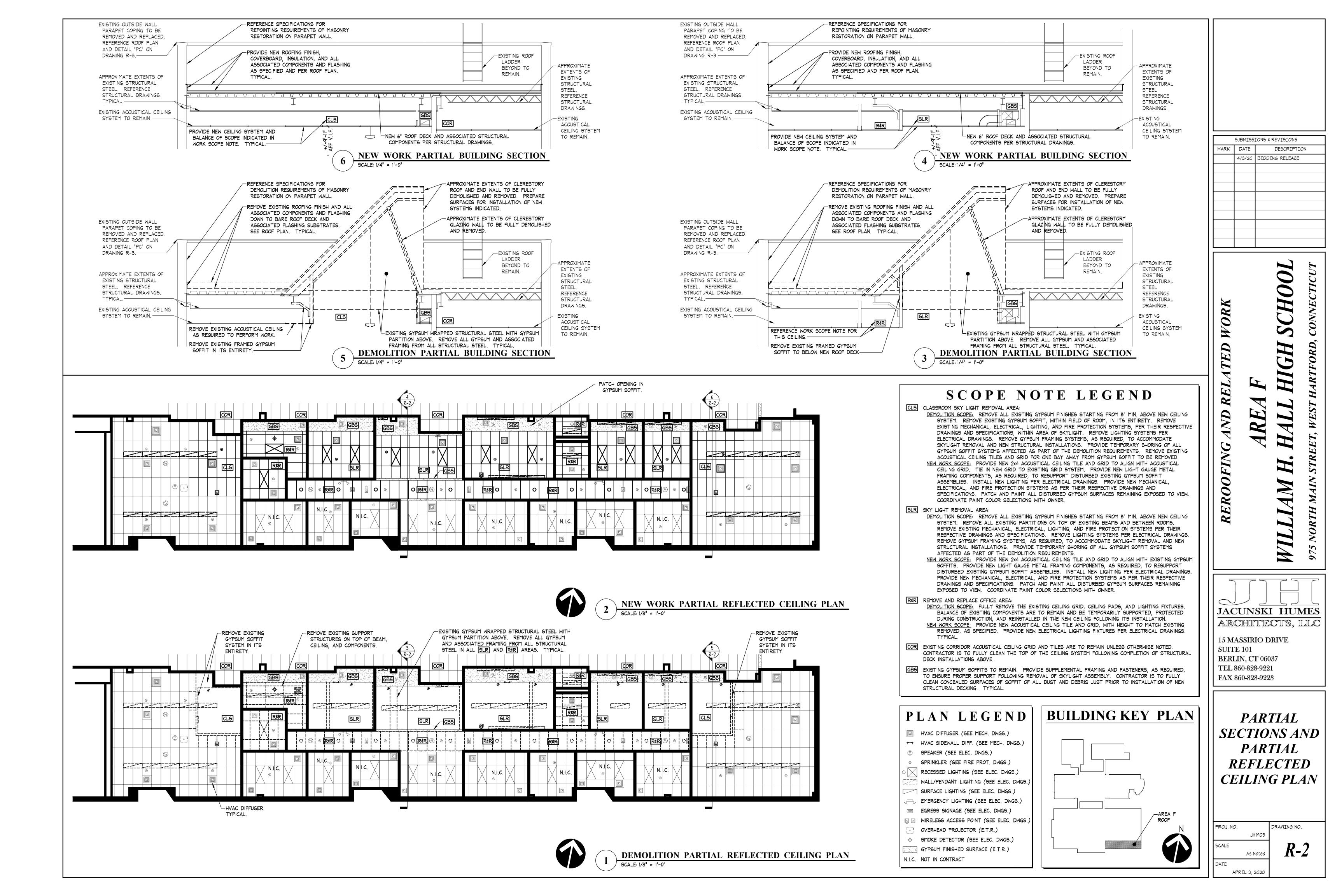
- 2. SEE NOT KEYED TYPICAL DETAILS.
- TRAFFIC PADS NOT SHOWN AROUND MECH. EQUIP. FOR CLARITY (SEE LEGEND FOR LOCATIONS).
- 4. AT ALL ABANDONED EQUIPMENT (ACTION INDICATOR "D") REMOVE EXISTING MISCELLANEOUS STEEL FRAMING AT ROOF OPENING AS REQUIRED TO FACILITATE INSTALLATION OF NEW DECK. THIS INCLUDES EDGE ANGLES AND ALL FRAMING THAT MAY PROJECT ABOVE THE MAIN ROOF STEEL ELEVATION. ALL FRAMING MEMBERS BELOW THE ROOF DECK ARE TO REMAIN. CUT BACK AND REMOVE EXISTING DECKING PAST SECONDARY CHANNEL OR ANGLE SUPPORT FRAMING TO PRIMARY STEEL BEAM FRAMING MEMBERS. DECK PLACEMENT SHALL BE FROM

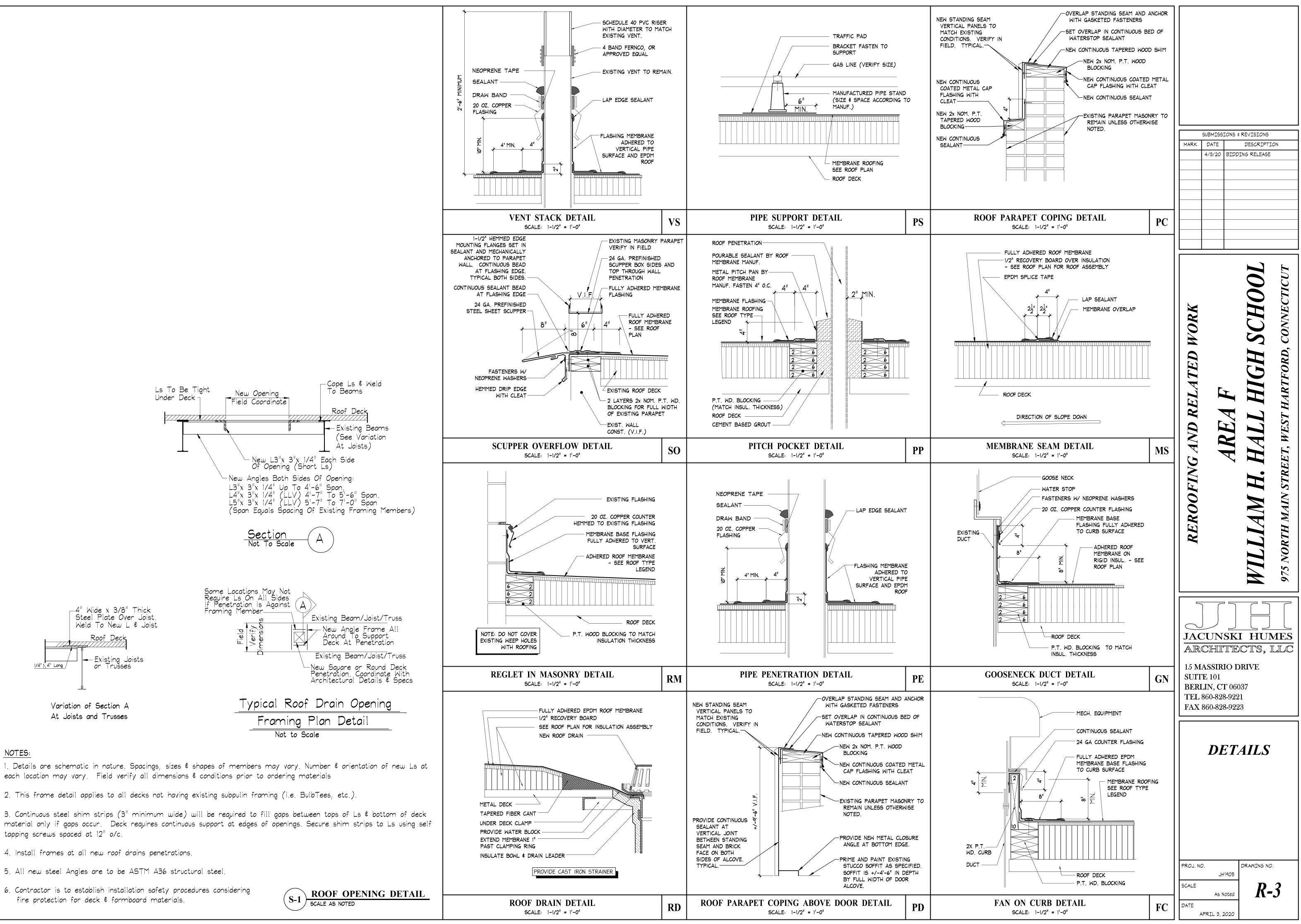












NOTES:

- tapping screws spaced at 12" o/c.
- 4. Install frames at all new roof drains penetrations.
- 5. All new steel Angles are to be ASTM A36 structural steel.
- 6. Contractor is to establish installation safety procedures considering



SPRINKLER SYSTEM SPECIFICATIONS:

1. <u>DESCRIPTION</u>:

- A. MODIFY SPRINKLER SYSTEM WITH DROPS TO NEW GRID CEILING WHERE SKYLIGHTS USED TO BE.
- B. WORK INCLUDES; REMOVE UPRIGHT SPRINKLER HEADS IN SKYLIGHT AREA AND ALL ASSOCIATED PIPING AND CAP AT BRANCH LINE IN SOFFIT FOR FUTURE USE, INSTALL NEW PENDENT SPRINKLER HEADS IN GRID CEILINGS WITH ARM OVER FROM EXISTING FITTINGS.
- C. FURNISH ALL NECESSARY LABOR, MATERIAL, TOOLS, EQUIPMENT, APPURTENANCES, INSTRUMENTS, ETC., NECESSARY TO FULLY COMPLETE THE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND BOTH LOCAL AND STATE FIRE CODES AND N.F.P.A. #13.
- CONTRACTOR'S RESPONSIBILITIES:
- A. ALL PERMITS AND FEES.
- B. HOISTING, RIGGING, TRANSPORTATION COSTS AND INSTALLATION OF NECESSARY APPURTENANCES.
- C. THE CONTRACTOR SHALL VISIT THE PREMISES AND NOTE ALL PERTINENT FACTS AND DETAILS INCLUDING CONDITIONS UNDER WHICH THE WORK MUST BE CARRIED OUT. NO ALLOWANCE WILL BE MADE FOR FAILURE TO HAVE DONE SO.
- D. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE NOTIFICATION OF OUTAGE AND IMPAIRMENT TO THE EXISTING FIRE PROTECTION SYSTEMS TO GENERAL CONTRACTOR, BUILDING OWNER AND LOCAL AUTHORITIES. LEAVE SPRINKLER SYSTEM OPERATIONAL DURING CONSTRUCTION TO GREATEST EXTENT POSSIBLE.
- E. HOLES CUTTING AND PATCHING: CUTTING WILL BE BY CORE BORING, PATCHING WILL REQUIRE BOTH WATERPROOFING AND FIREPROOFING.
- DRAWINGS ARE DIAGRAMMATIC; DO NOT SCALE DRAWINGS. MAKE SUCH DEVIATIONS AND OFFSETS AS NECESSARY TO MEET SPACE REQUIREMENTS.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATER DAMAGE TO THE PROPERTY OF THE OWNER, THE WORK OF OTHER TRADES, AND TO EXISTING BUILDING SYSTEMS DURING ALL PHASES OF THE WORK.

COORDINATION DRAWINGS:

- A. DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.
- B. SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN 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" PRIOR TO BEING USED AS A BASIS FOR COORDINATION DRAWINGS.
- AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE OTHER TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:
- MECHANICAL SHEET METAL
- PLUMBING CONTRACTOR
- ELECTRICAL WORK MECHANICAL PIPING

OTHER TRADES.

- D. AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING ARE RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COST INCURRED BY
- E. THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. 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 DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.
- SUBMIT FINAL SIGNED COORDINATION DRAWING TO THE ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND 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 IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND REINSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.
- H. EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUBCONTRACTORS.
- I. THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY 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, WIT 1. VICTUALIC STYLE 005 COUPLINGS AND FULL FLOW FITTINGS, ASTM A-47 AND A-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 FULL FLOW FITTINGS, ASTM A-47 AND A-536, IN SIZES 2-1/2" AND LARGER, WITH GROOVES. NO CUT GROOVES OR THREADING WILL BE ALLOWED ON SCHEDUL

5. SPRINKLER DROPS:

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

SPRINKLER HEADS:

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

7. <u>VALVES</u>:

VALVES SHALL BE MILWAUKEE, KENNEDY, NIBCO OR HAMMOND. EQUAL TO THE FC MODEL NUMBER(S) AND TYPE(S):

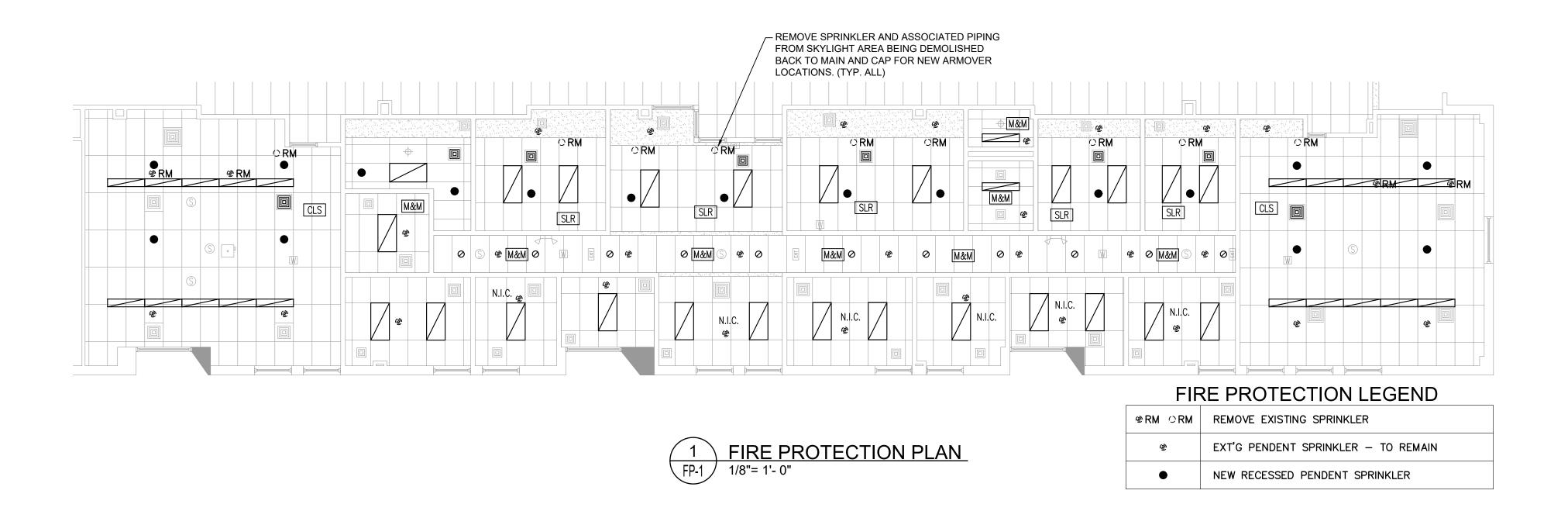
- A. GLOBE VALVES: HAMMOND FIG. IB-413-T. UNION BONNET, TEFLON DISC, BRONZ VALVE.
- B. BALL VALVES: HAMMOND FIG. 8501, BRONZE TWO PIECE BODY, BRASS STEM, C PLATED BRASS BALL, TELFON SEATS AND STUFFING BOX RING, LEVEL HANDLE THREADED END.

8. EXECUTION:

- A. THE COMPLETE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH RULES AN REGULATIONS PERTAINING TO ORDINARY HAZARD (NOT TO EXCEED 130 SQ.FT. HEAD - SYSTEM TO BE HYDRAULICALLY CALCULATED; NOT SIZED AS PER PIPE SCHEDULE) OCCUPANCY AND COMPLY WITH FULL REQUIREMENTS OF THE REGULATORY AGENCIES.
- B. THE CONTRACTOR SHALL HAVE HYDRANT FLOW TESTS CONDUCTED ON THE F HYDRANTS HYDRAULICALLY CLOSEST TO THE EXISTING WATER SERVICE ENTR 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 ACT FLOW VALUES MEASURED DURING FLOW TEST EQUAL OR EXCEED TOTAL SYST DEMAND. FLOW VALUES EXTRAPOLATED FROM MEASURED FLOW VALUES MAY USED AS A BASIS FOR DESIGN.
- C. THE FIRE PROTECTION CONTRACTOR SHALL HAVE PREPARED BY A NICET LEVE CERTIFIED SPRINKLER TECHNICIAN OR UNDER A P.E. WORK INSTALLATION DRA (SHOP DRAWINGS) AND SHALL SUBMIT THEM TO THE ENGINEER AND RATING BI FOR APPROVAL.
- D. SHOP DRAWING SHALL INCLUDE ALL HYDRAULIC CALCULATIONS PREPARED ON 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 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 WII OCCUR. IF, DUE TO INADEQUATE COORDINATION, EXTRA WORK IS ENTAILED, T PROTECTION CONTRACTOR SHALL BE HELD FULLY RESPONSIBLE.

9. <u>PIPING SYSTEMS</u>:

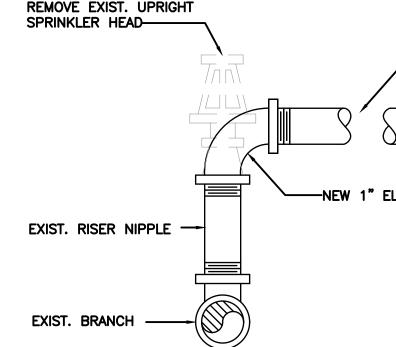
- A. SPECIAL CARE MUST BE TAKEN TO INSURE THAT PIPING ABOVE HUNG CEILINGS IS RUN TO MAINTAIN MAXIMUM HEADROOM AND CLEARANCE FOR ACCESS TO THE EQUIPMENT AND TO AVOID CONFLICT WITH THE ELECTRICAL CONDUITS, LIGHTING FIXTURES, OTHER PIPING, DUCTWORK AND EQUIPMENT OF OTHER TRADES.
- B. THE PIPING SHALL BE 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.
- 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.



| VITH: | | 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. | |
|---------------------------------|-----|-----|--|--------------|
| A-536, IN | | 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. | |
| GS AND TH ROLLED ULE 10. | | G. | THREADED JOINTS SHALL BE MADE WITH TEFLON LIQUID JOINT COMPOUND APPLIED TO MALE THREADS ONLY. | |
| ULE IU. | 10. | INS | TALLATION: | |
| STEEL M ASTM C635 | | 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. | REMOVE EXIS |
| THE | | В. | 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. | SPRINKLER H |
| FOLLOWING | | 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. | |
| NZE GLOBE | | D. | INSTALL HEADS WITH TEFLON LIQUID JOINT COMPOUND APPLIED TO MALE THREADS ONLY. | |
| CHROME | | E. | SPRINKLER HEADS SHALL BE LOCATED IN CENTER OF CEILING TILES EXCEPT WHERE INDICATED OTHERWISE. | |
| · | 11. | TES | STING: | EXIST. RISER |
| | | A. | TEST ENTIRE SYSTEM AT 200 PSI FOR TWO (2) HOURS AFTER COMPLETION, IN ACCORDANCE WITH NFPA #13. | |
| AND FT. PER | | В. | FURNISH TO THE RATING BUREAU, THE CERTIFICATE COVERING MATERIALS AND TESTS AS OUTLINED IN NFPA #13. | EXIST. BRAN |
| E SIZING | | C. | DURING AND AFTER COMPLETION, THE ENTIRE INSTALLATION SHALL BE SUBJECT TO INSPECTION AND TEST BY THE RATING BUREAU. | |
| | 12. | AS- | BUILT DRAWINGS: | |
| FIRE TRANCE. | | A. | PROVIDE A COMPLETE SET OF AS-BUILT DRAWINGS REFLECTING AS INSTALLED CONDITIONS OF SYSTEMS WITHIN THIS DISCIPLINE. | |
| S CTUAL 'STEM | | В. | 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. | NEW SUSPEN |
| AY NOT BE EVEL IV RAWINGS | | 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. | |
| BUREAU | | 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. | |
| ON FORMS TE 1500 | | 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 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: | |
| WILL 9, THE FIRE | | | MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND SIGNALING 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 | |
| | | | EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM | |

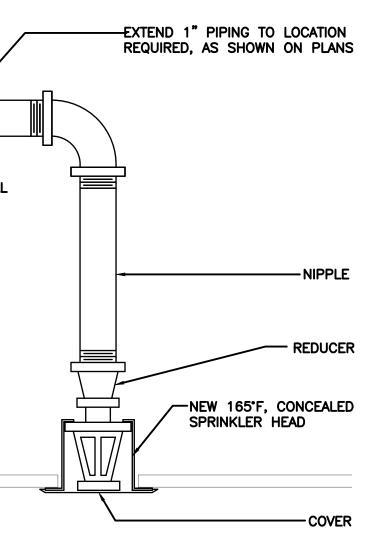
• EQUIPMENT LOCATIONS (EXPOSED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.

- APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED. F. ALSO SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED
- UNDER THIS CONTRACT. INCLUDE MANUFACTURER'S MANUALS AND OPERATING INSTRUCTIONS.



NDED CEILING-





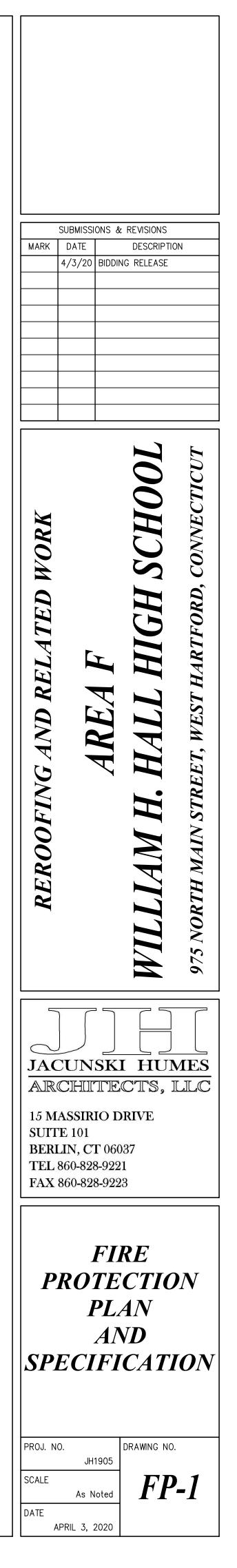
NEW PENDANT SPRINKLER DETAIL

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.



MECHANICAL SPECIFICATIONS

<u>GENERAL</u>

- 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 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 CONTRACT 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.

CODES AND STANDARDS:

- IBC 2015 INTERNATIONAL BUILDING CODE / CONNECTICUT BUILDING CODE 2018 AND ALL SUPPLEMENTS.
- IEBC 2015 INTERNATIONAL EXISTING BUILDING CODE IMC 2015 INTERNATIONAL MECHANICAL CODE IMP 2015 INTERNATIONAL PLUMBING CODE IECC 2015 INTERNATIONAL ENERGY CONSERVATION CODE NEC 2017 NATIONAL ELECTRICAL CODE / NFPA 70 NFPA NFPA-101 FIRE SAFETY CODE ICC/ANSI ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES A117.1-2003
- 7. 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.
- 8. STORE MATERIALS INSIDE AND PROTECTED FROM DEBRIS, WEATHER AND MOISTURE.
- 9. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL POWER AND CONTROL WIRING REQUIRED FOR ALL EQUIPMENT OPERATION NOT SPECIFICALLY PROVIDED BY OTHERS BUT REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. THIS CONTRACTOR SHALL PROVIDE MOTOR STARTERS FOR INSTALLATION BY OTHERS. COORDINATE REQUIREMENTS.

ALTERATION WORK AND DEMOLITION

- 1. ALL EQUIPMENT, DUCTWORK, PIPING, CONTROL DEVICES ETC ... TO BE REMOVED, 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. UPON COMPLETION OF REMOVALS AND MODIFICATIONS, ALL DUCTWORK AND PIPING TO REMAIN SHALL BE PROPERLY PLUGGED, VALVED, CAPPED AND/OR BYPASSED SUCH THAT UPON COMPLETION OF WORK ALL SYSTEMS TO REMAIN, REMAIN OPERATIONAL.
- 3. NO DEAD ENDS SHALL BE LEFT ON ANY DUCTWORK AND PIPING SYSTEMS UPON COMPLETION OF WORK.
- 4. EXISTING EXPOSED PIPING SYSTEMS NOT TO BE REUSED, AND NOT SPECIFICALLY NOTED FOR REMOVAL SHALL BE COMPLETELY REMOVED.
- 5. ALL SYSTEMS SHALL BE LEFT IN WORKING ORDER TO THE SATISFACTION OF THE OWNER UPON COMPLETION OF ALL NEW WORK.
- 6. ALL EXISTING EXPOSED, UNNECESSARY DUCTWORK AND PIPING NOT RELATE TO NEW WORK SHALL BE COMPLETELY REMOVED.
- 7. RE-ROUTE OR REMOVE ALL EXISTING DUCTWORK, PIPING AND SYSTEMS WHERE NECESSARY TO AVOID NEW EQUIPMENT, STRUCTURAL OR MASONRY WORK AS

COORDINATION DRAWINGS

- 1. DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.
- A. SHEET METAL AND PLUMBING SHOP DRAWINGS THAT HAVE BEEN COORDINATED WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW. DRAWINGS MUST BE RETURNED FROM ENGINEER EITHER "REVIEWED" OR "FURNISHED AS DIRECTED" PRIOR TO BEING USED AS BASIS FOR COORDINATION DRAWINGS. PRIOR TO THE SUBMISSION AND REVIEW OF SHEET METAL SHOP DRAWINGS, THE CONTRACTOR SHALL SUBMIT FOR REVIEW SHEET METAL SHOP STANDARDS. ANY SHEET METAL SHOP DRAWINGS SUBMITTED PRIOR TO THE SUBMISSION OF THE SHOP STANDARDS SHALL BE RETURNED "NOT REVIEWED".
- B. AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE OTHERS TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THERE WORK:

-MECHANICAL SHEET METAL -PLUMBING CONTRACTOR -ELECTRICAL WORK -MECHANICAL PIPING

REQUIRED BY THE PROPOSED ALTERATIONS.

- 2. AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWINGS AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING IS RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COSTS INCURRED BY OTHER TRADES.
- 3. THE ARCHITECT AND THE ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. COORDINATION DRAWINGS ARE NOT TO BE CONSIDERED PIPING OR DUCT SHOP DRAWINGS. THE CONTRACTOR IS REQUIRED TO SUBMIT PIPING AND DUCTWORK SHOP DRAWINGS FOR REVIEW BY THE ENGINEER. PIPING AND DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT DOCUMENTS.

- 4. SUBMIT FINAL SIGNED COORDINATION DRAWING TO ENGINEER FOR REVIEW. ENGINEER WILL REVIEW FOR ACCEPTABILITY OF INSTALLATIONS.
- 5. ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES SHALL BE REMOVED AND RE-INSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.
- 6. EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS SUB-CONTRACTORS.
- 7. THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO CONFLICTS WILL NOT BEAR ADDITIONAL COST.

AS BUILT DRAWINGS

- 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 INCLUDE DETAILS AS NECESSARY TO CLEARLY REFLECT THE INSTALLED CONDITION. DRAWINGS 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 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 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. MAINS AND BRANCHES OF PIPING SYSTEMS, WITH VALVES AND CONTROL DEVICES LOCATED AND NUMBERED, CONCEALED UNIONS LOCATED, AND WITH ITEMS REQUIRING MAINTENANCE LOCATED (I.E. TRAPS, STRAINERS, EXPANSION COMPENSATORS, TANKS, ETC...) VALVE LOCATION DIAGRAMS, COMPLETE WITH VALVE TAG CHART.
- 5. EQUIPMENT LOCATIONS (EXPOSEED AND CONCEALED), DIMENSIONED FROM PROMINENT BUILDING LINES.
- 6. APPROVED SUBSTITUTIONS, CONTRACT MODIFICATIONS, AND ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- 7. CONTRACT MODIFICATIONS, ACTUAL EQUIPMENT AND MATERIALS INSTALLED.
- 8. SUBMIT FOR REVIEW BOUND SETS OF THE REQUIRED DRAWINGS, MANUALS AND OPERATING INSTRUCTIONS.
- 9. SUBMIT A COMPLETE MAINTENANCE MANUAL OF ALL EQUIPMENT INSTALLED UNDER THIS CONTRACT.

HANGERS AND SUPPORT

- 1. SEISMIC RESTRAINT: PROVIDE SEISMIC RESTRAINT AND EXPANSION OF ALL MECHANICAL EQUIPMENT AND SYSTEMS IN ACCORDANCE WITH STATE AND FEDERAL BUILDING CODE REQUIREMENTS. SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT INDICATING ALL NECESSARY COMPONENT CUTS, PLAN LOCATIONS AND CALCULATIONS FOR A COMPLETE SYSTEM.
- 2. PROVIDE ALL NECESSARY STRUCTURAL MEMBERS INCLUDING ADDITIONAL STRUCTURAL SUPPORT TO SUPPORT PIPING AND EQUIPMENT. HANGERS AND SUPPORTS SHALL BE OF AN APPROVED DESIGN NECESSARY TO SUPPORT DUCTWORK, PIPING EQUIPMENT AND TO KEEP IN PROPER ALIGNMENT AND PREVENT TRANSMISSION OF INJURIOUS THRUSTS AND VIBRATIONS. IN ALL CASES WHERE HANGERS, BRACKETS, ETC... ARE SUPPORTED FROM CONCRETE CONSTRUCTION. DO NOT WEAKEN CONCRETE OR PENETRATE WATERPROOFING ALL HANGERS AND SUPPORTS SHALL BE CAPABLE OF SCREW ADJUSTMENT AFTER PIPING IS ERECTED. HANGERS SUPPORTING PIPING EXPANDING INTO LOOPS, BENDS, AND OFFSETS SHALL BE SECURED TO THE BUILDING STRUCTURE IN SUCH A MANNER THAT HORIZONTAL ADJUSTMENT PERPENDICULAR TO THE RUN OF PIPING SUPPORTED MAY BE MADE TO ACCOMMODATE DISPLACEMENT DUE TO EXPANSION. ALL SUCH HANGERS SHALL BE FINALLY ADJUSTED BOTH IN THE VERTICAL AND HORIZONTAL DIRECTION, AS REQUIRED, HANGERS IN CONTACT WITH COPPER OR BRASS PIPE SHALL BE DIELECTRIC, COMPATIBLE WITH COPPER AND BRASS ALLOY OR PROVIDED WITH FELT SLEEVE.
- 3. PROVIDE ADDITIONAL SUPPORT FOR DUCTWORK, PIPING AND EQUIPMENT WHEN DECK IS NOT CAPABLE OF SUPPORT.
- 4. BEAM CLAMPS HANGERS SUPPORTED FROM STEEL SHALL BE CENTER LOADING BEAM CLAMPS FOR HANGERS SUPPORTING PIPING 2 INCHES FOR 2-1/2 INCHES AND LARGER, I BEAM CLAMPS SHALL BE FORGED STEEL. "C" CLAMPS ARE NOT TO BE USED.
- 5. PROVIDE AND INSTALL EXPANSION COMPENSATION FOR ALL PIPING, SUBMIT PLANS, CALCULATIONS AND EQUIPMENT DATA.

DUCTWORK

- 1. DUCTWORK SHALL BE FABRICATED FROM HOT-DIPPED GALVANIZED STEEL SHEET CONFORMING TO ASTM A653, WITH G60 COATING. EXHAUST DUCTWORK SERVING TOILET/SHOWER SPACES SHALL BE ALUMINUM SHEET ALLOY 3003-H14, ASTM B 209, ALUMINUM CONNECTORS AND BAR STOCK: ALLOY 6061-T6 OR OF EQUIVALENT STRENGTH.
- 2. MANUFACTURED METAL DUCTWORK AND FITTINGS SHALL BE BY LINDAB, SEMCO OR UNITED McGILL CORP. FLAT OVAL AND ROUND DUCTS: MACHINE MADE FROM SPIRAL LOCKSEAM DUCT WITH LIGHT REINFORCING CORRUGATIONS; FITTINGS MANUFACTURED OF AT LEAST TWO GAGES HEAVER THAN METAL DUCT.
- 3. 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.
- 4. INSULATED FLEXIBLE DUCTS SHALL BE FABRICATED FROM MULTIPLE LAYERS OF ALUMINUM LAMINATE SUPPORTED BY HELICALLY WOUND SPRING STEEL WIRE WITH FIBERGLASS INSULATION AND POLYETHYLENE VAPOR BARRIER. PRESSURE RATING SHALL BE 10 INCH W.G. POSITIVE AND 1.0 INCH W.G. NEGATIVE.
- 5. 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.
- 6. PROVIDE AIR FOIL TURNING VANES WHEN RECTANGULAR ELBOWS MUST BE USED.

REFRIGERANT PIPING

- 1. DRAWN (RIGID) COPPER TUBE SHALL BE TYPE ACR, R410 RATED, ASTM B280, H58 TEMPER, CLEAN, DRY AND CAPPED. FITTINGS SHALL BE ASME B16.22 WROUGHT COPPER. JOINTS SHALL BE BRAZED WITH AWS A5.8 BCUP SILVER / PHOSPHORUS / COPPER ALLOY.
- 2. ANNEALED (SOFT) COPPER TUBE SHALL BE TYPE ACR, R410 RATED, ASTM B280, O60 TEMPER, CLEAN, DRY AND CAPPED. FITTINGS SHALL BE ASME 16.22 WROUGHT COPPER. JOINTS SHALL BE FLARED OR BRAZED WITH AWS A5.8 BCUP SILVER / PHOSPHORUS / COPPER ALLOY.

3. INSULATION SHALL BE FLEXIBLE ELASTOMERIC. INSULATION THICKNESS SHALL BE IN CONFORMANCE WITH THE 2015 INTERNATIONAL ENERGY CODE.

4. PIPING INSTALLATION

A. INSTALL REFRIGERATION PIPING IN ACCORDANCE WITH VRF SYSTEM MANUFACTURER'S INSTRUCTIONS AND ASME B31.5.

B. ROUTE PIPING IN AN ORDERLY MANNER, PARALLEL TO BUILDING STRUCTURE. AND MAINTAIN GRADIENT. GROUP PIPING WHENEVER PRACTICAL AT COMMON ELEVATIONS. SLEEVE PIPING PASSING THROUGH PARTITIONS, WALLS AND FLOORS. SLOPE PIPING AND ARRANGE TO DRAIN AT LOW POINTS.

TESTING, ADJUSTING AND BALANCING

- 1. AFTER COMPLETION OF THE WORK, BUT BEFORE SUBSTANTIAL COMPLETION, TEST, ADJUST AND BALANCE ALL AIR AND WATER SYSTEMS IN ACCORDANCE WITH EITHER AABC, NEBB, OR TABB STANDARDS.
- 2. TESTING AND BALANCING CONTRACTORS SHALL BE CERTIFIED BY EITHER AABC, NEBB OR TABB.
- 3. AIR HANDLING SYSTEMS SHALL BE BALANCED TO WITHIN PLUS OR MINUS 5 PERCENT OF DESIGN FOR SUPPLY SYSTEMS AND PLUS OR MINUS 10 PERCENT FOR RETURN AND EXHAUST SYSTEMS.
- 4. AIR OUTLETS AND INLETS SHALL BE BALANCED TO WITHIN PLUS 10 PERCENT AND MINUS 5 PERCENT OF DESIGN TO SPACE. ADJUST OUTLETS AND INLETS IN SPACE TO WITHIN PLUS OR MINUS 10 PERCENT OF DESIGN.
- 5. ADJUST HYDRONIC SYSTEMS TO WITHIN PLUS OR MINUS 10 PERCENT OF DESIGN. 6. PERMANENTLY MARK SETTINGS OF VALVES, DAMPERS, AND OTHER ADJUSTMENT

DEVICES ALLOWING SETTINGS TO BE RESTORED. SET AND LOCK MEMORY STOPS.

7. SUBMIT FINAL REPORT INDICATING DESIGN VERSUS FINAL PERFORMANCE; NOTABLE CHARACTERISTICS OF THE SYSTEM; DESCRIPTION OF SYSTEMS OPERATION SEQUENCE; TEST CONDITIONS; AND A LIST OF INSTRUMENTS USED FINAL REPORT SHALL BE SUBMITTED PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT.

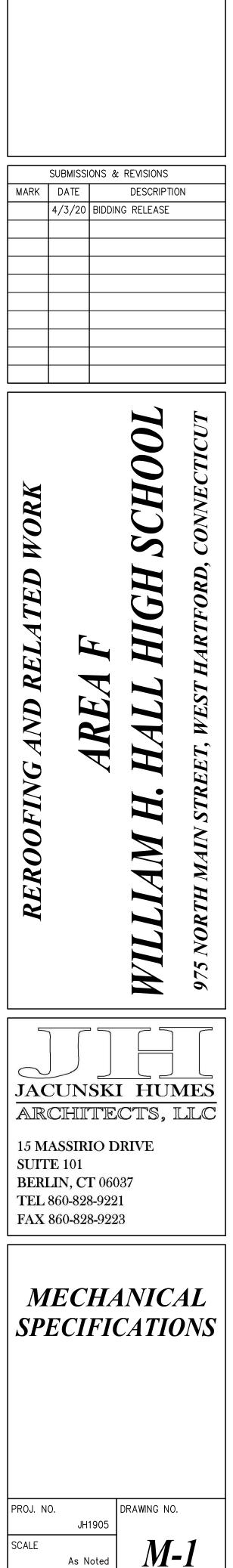
| F | IVAC SYMBOLS | FITTINGS AND VALVES | | |
|-----------|---|-----------------------------|--|--|
| | RECTANGULAR, FLAT OVAL OR | ø | BACKFLOW PREVENTOR | |
| | ROUND AIR DUCT | | STRAINER OR STRAINER WITH BLOW-DOWN VALVE HOSE END, CAP AND CHAIN | |
| | | O | PIPE ELBOW UP OR PIPE TEE UP | |
| | | ə | PIPE ELBOW DOWN | |
| | SUPPLY AIR DUCT DOWN | | PIPE TEE DOWN | |
| | RETURN AIR DUCT UP | ; | TAKEOFF FROM BOTTOM OF MAIN PIPE | |
| | RETURN AIR DUCT DOWN | <u> ф </u> | TAKEOFF FROM TOP OF MAIN PIPE | |
| | EXHAUST AIR DUCT UP | | IN-LINE EXPANSION COMPENSATOR | |
| | EXHAUST AIR DUCT DOWN | ——×—— | PIPE ANCHOR | |
| | TURNING VANES | I | COMPANION FLANGE | |
| | ACCESS DOOR | | PIPE CAP OR CAPPED END OF PIPE | |
| | FLEXIBLE DUCT CONNECTION | | UNION | |
| | | | PIPE GUIDES | |
| | CEILING SUPPLY DIFFUSERS | | PUMP DIRECTION OF FLUID FLOW | |
| | CEILING RETURN / EXHAUST GRILLE HARD DUCTED DIFFUSER OR GRILLE WITH | | VALVE ON RISER | |
| | FULL SIZE BOTTOM TAKE-OFF | | VALVE ON DROP | |
| | DIRECTION OF SUPPLY OR OUTDOOR AIRFLOW | | AIR VENT | |
| | DIRECTION OF SUFFET OR COTDOOR AIRFEOW | <u> </u> | | |
| -\> | DIRECTION OF RETURN OR EXHAUST AIRFLOW | | FLOW SENSOR | |
| ~ | DOOR UNDERCUT | ₽ | 2-WAY CONTROL VALVE | |
| . BDD | | | 3-WAY CONTROL VALVE | |
| | BACK DRAFT DAMPER | d | BALL VALVE | |
| VD | | \$ | CALIBRATED BALANCING VALVE | |
| | VOLUME DAMPER | —⋈— | SHUT-OFF VALVE (SEE SPECIFICATIONS FOR APPLICATION TYPE) | |
| FD | FIRE DAMPER | Ifi | BUTTERFLY VALVE | |
| FD/SB | | N | CHECK VALVE | |
| | FIRE DAMPER WITH INTEGRAL SECURITY BARS | | | |
| FS | | <u>₩</u> | GATE VALVE | |
| | | & | PRESSURE REDUCING VALVE | |
| | SMOKE DAMPER SYSTEM AND ASSOCIATED DEVICES PER SPECIFICATIONS AND MEP DETAILS | | OS&Y VALVE | |
| M | MOTORIZED DAMPER | | DRAIN VALVE WITH HOSE END, CAP & CHAIN | |
| [Н] | HUMIDIFIER TUBE/PANEL | ¢ * | OR WALL HYDRANT / HOSE BIBB | |
| | SUPPLY PIPING, REFER TO ABBREVIATION LIST FOR DESIGNATION (XXX) | | MOTORIZED BUTTERFLY VALVE | |
| — —xxx— — | RETURN PIPING, REFER TO ABBREVIATION LIST FOR DESIGNATION (XXX) | | PRESSURE RELIEF SAFETY VALVE | |
| DS | DUCT SMOKE DETECTOR WITH REMOTE | | AQUASTAT | |
| | INDICATING LIGHT AND TEST SWITCH | <u>_</u> | TEMPERATURE SENSOR WITH SEPARABLE | |
| | DUCT STATIC PRESSURE SENSOR | _ | SOCKET IN IMMERSIBLE WELL | |
| | | Ţ | TEMPERATURE GAUGE WITH SEPARABLE | |
| | | J | IN IMMERSIBLE WELL | |
| AFS | | Ą | THERMOMETER WITH SEPARABLE SOCKET | |
| (T) | DUCT SOUND ATTENUATOR | | | |
| | | ¥ | PRESSURE GAUGE | |
| [СО] | ROOM TEMPERATURE SENSOR | P | PRESSURE SENSOR WITH SYPHON (STEAM) | |
| | | \\ | | |
| | | <u> </u> | | |
| (н) | HUMIDISTAT | | FLEXIBLE CONNECTOR DUCT SIZING | |
| | FINNED TUBE RADIATION | 20x12 | RECTANGULAR DUCT | |
| FM | FLOW METER | 20/12 | FLAT OVAL DUCT | |
| RC | VRF REMOTE CONTROL | 20/12 | ROUND DUCT | |
| | LANDLORD SUPPLIED DUCTWORK | 20 9 | - | |

HPS

ABBREVIATIONS

| (NOT ALL ABBREVIATIONS APPLI | CABLE TC |
|--|---------------------|
| 48" ABOVE FINISHED FLOOR | HR |
| GENERAL SERVICE COMPRESSED AIR AIR COMPRESSOR | HT HTHW HTHWR |
| AUTOMATIC COOLING CONDENSATE PUMP AIRFLOW CENTRIFUGAL FAN | HTHWS |
| AIR CONDITIONING UNIT(S) | HTR |
| ACCESS DOOR | HUM |
| ABOVE FINISHED FLOOR | HV |
| ABOVE FINISHED GRADE | HW |
| AIR HANDLING UNIT | HWR |
| AMBIENT | HWRP |
| ANNUNCIATOR | HWRR |
| AIR PRESSURE DROP | HWS |
| APPROXIMATE | HX |
| AXIAL ROOF VENTILATOR | HZ |
| AIR SEPARATOR | ICF |
| AUTOMATIC TEMPERATURE CONTROL | ID |
| AUTOMATIC TRANSFER SWITCH | IEF |
| AVERAGE | IN |
| AVERAGE WATER TEMPERATURE | IN WG |
| 42" ABOVE FINISHED FLOOR | IW |
| BACK DRAFT DAMPER | JP |
| BOILER FEED WATER | KEF |
| BRAKE HORSEPOWER BACKWARD INCLINED CENTRIFUGAL FAN | L |
| BACKWARD INCLINED CENTRIFOGAL FAN | LAT |
| BASEMENT | LBS/HR |
| BRITISH THERMAL UNITS/HOUR | LF |
| CONDENSATE DRAIN | LIQ |
| COEFFICIENT, VALVE FLOW | LPC |
| COOLING COIL | LPS |
| CEILING EXHAUST REG./GRILLE | LWT |
| CUBIC FEET PER MINUTE | MA |
| CHEMICAL FEED PUMPS | MA |
| CHILLED WATER RETURN | MA |
| CHILLED WATER SUPPLY | MAX |
| CONSOLE HEAT PUMP | MBH |
| CAST IRON | MD |
| CIRCUIT | MECH |
| COOLING WATER | MFF |
| CLEAN LOW PRESSURE STEAM | MFR |
| CEILING | MIN |
| CLEAN MEDIUM PRESSURE STEAM | MPC |
| CEILING MOUNTED VENTILATOR | MPS |
| CLEANOUT | MUAU |
| CARBON DIOXIDE | N/A |
| COMPRESSOR | N.C. |
| CONDENSER | NEC |
| CONVECTOR | NIC |
| CONDENSATE PUMP | N.D. |
| CENTRAL PROCESSING UNIT | NTS |
| COMPUTER ROOM UNIT | OA |
| CENTRIFUGAL ROOF VENTILATOR | OD |
| CONDENSER WATER RETURN | PCD |
| CONDENSER WATER SUPPLY | PCR |
| CENTRIFUGAL WALL VENTILATOR | PD |
| COOLING TOWER | PF |
| CONDENSING UNIT | PH / Ø |
| CUBIC FEET | PLEF |
| CABINET UNIT HEATER | PLUF |
| CONSTANT VOLUME COLD WATER | PRV |
| DECIBEL | PSI |
| DEPTH | PVC |
| DRY BULB TEMPERATURE | RA |
| DOUBLE CHECK VALVE | RAF |
| DEIONIZED PROCESS WATER | REF |
| DEGREE | REF |
| DIAMETER | REG |
| DOWN | RF |
| DIFFERENTIAL PRESSURE | RH |
| DUCT SOUND ATTENUATORS | RHC |
| DRAWING | RHG |
| DIRECT EXPANSION | RM |
| EXHAUST AIR | RMS |
| ENTERING AIR TEMPERATURE | RO |
| ELECTRIC BASEBOARD RADIATION | RPD |
| EQUIVALENT DIRECT RADIATION | RPM |
| EXHAUST FAN | RTU |
| EFFICIENCY | RV |
| ELECTRICAL | S&R |
| EMERGENCY | SA |
| EXTERNAL STATIC PRESSURE | SCP |
| EXPANSION TANK (HVAC) | SD |
| ELECTRIC UNIT HEATER | SG SP |
| ENTERING WET BULB TEMPERATURE | SPEC |
| ENTERING WATER TEMPERATURE | SPST |
| EXISTING | SQ |
| EXHAUST | SS |
| EXPANSION | STD |
| FAHRENHEIT | SUCT |
| FORWARD CURVE CENTRIFUGAL FAN | SWH TAF |
| FIRE DAMPER | TAG |
| FIRE DAMPER WITH INTEGRAL SECURITY BARS | TD |
| FLOW METER | TEMP |
| FLAT ON BOTTOM | TSP |
| FUEL OIL FILL | T'STAT |
| FUEL OIL RETURN | TYP |
| FUEL OIL SUPPLY | UH |
| FLAT ON TOP | UPF |
| FUEL OIL VENT | USF |
| FEET PER MINUTE | V |
| FEET PER SECOND | VAC |
| FOOT OR FEET | VAF |
| GAUGE | VAV VD |
| GALLONS | VEL |
| GRAVITY COOLING CONDENSATE | VEC |
| GALLONS PER HOUR GALLONS PER MINUTE | VIF VIF VOL |
| GRAINS | W |
| HEIGHT | WB |
| HEATING COIL | WEF |
| HEATING/COOLING | WI |
| HEAD HANDICAP HORSEDOWER | WPD WTG |
| HORSEPOWER | WTG |
| HEAT PUMP LOOP PIPING | WTR |
| HIGH DRESSURE CONDENSATE | WWM |
| HIGH PRESSURE CONDENSATE HIGH PRESSURE STEAM | v v v IVI |
| | |

(NOT ALL ABBREVIATIONS APPLICABLE TO THIS PROJECT) HOUR(S) HFAT HIGH TEMPERATURE HOT WATER HIGH TEMPERATURE HOT WATER RETURN IWR WS HIGH TEMPERATURE HOT WATER SUPPLY HEATER HUMIDIFIER HEATING/VENTILATION UNIT HOT WATER HOT WATER RETURN HOT WATER RETURN PUMP HOT WATER REVERSE RETURN HOT WATER SUPPLY HEAT EXCHANGER FREQUENCY (CYC, PER SEC.) IN-LINE CENTRIFUGAL FAN INSIDE DIAMETER IN-LINE EXHAUST FAN INCHES INCHES OF WATER, GAUGE (PRESS.) INDIRECT WASTE JOCKEY PUMP KITCHEN EXHAUST FAN LENGTH LEAVING AIR TEMPERATURE POUNDS PER HOUR /HR LINEAR FEET LIQUID LOW PRESSURE CONDENSATE LOW PRESSURE STEAM LEAVING WATER TEMPERATURE MEDICAL COMPRESSED AIR MILLIAMPERE MIXED AIR MAXIMUM BTU PER HOUR (THOUSAND) MOTORIZED DAMPER MECHANICAL MIXED FLOW FAN MANUFACTURER MINIMUM MEDIUM PRESSURE CONDENSATE MEDIUM PRESSURE STEAM MAKE UP AIR UNIT NOT APPLICABLE NORMALLY CLOSED NATIONAL ELECTRICAL CODE NOT IN CONTRACT NORMALLY OPEN NOT TO SCALE OUTSIDE AIR OUTSIDE DIAMETER PUMPED CONDENSATE DRAIN (COOLING) PUMPED CONDENSATE RETURN (STEAM) PRESSURE DROF PROPELLER FAN PHASE PLENUM FAN PLUG FAN PRESSURE PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH POLYVINYL CHLORIDE RETURN AIR RETURN AIR FAN REFRIGERANT PIPING (MULTIPLE PIPES) ROOF EXHAUST FAN REGISTER RELIEF FAN RELATIVE HUMIDITY REHEAT COIL REFRIGERANT HOT GAS ROOM ROOT MEAN SQUARED REVERSE OSMOSIS WATER REDUCED PRESSURE DEVICE **REVOLUTIONS PER MINUTE** ROOF TOP UNIT RADON VENT SUPPLY AND RETURN SUPPLY AIR STEAM CONDENSATE PUMP SMOKE DAMPER STEAM GENERATOR STATIC PRESSURE SPECIFICATION SINGLE POLE SINGLE THROW SQUARE STAINLESS STEEL STANDARD SUCTION STEAM WATER HEATER TUBEAXIAL FAN IDENTIFICATION OF EQUIPMENT TEMPERATURE DIFFERENCE TEMPERATURE TOTAL STATIC PRESSURE THERMOSTAT TYPICAL UNIT HEATER UPBLAST PROPELLER ROOF EXHAUST FAN UTILITY SET FAN VOLTAGE VACUUM VANEAXIAL FAN VARIABLE AIR VOLUME VOLUME DAMPER VELOCITY VARIABLE FREQUENCY CONTROLLER VERIFY IN FIELD VOLUME WATT WET BULB TEMPERATURE WALL EXHAUST FAN WATER PRESSURE DROP WALL TRANSFER GRILLE WATER WELDED WIRE MESH



DATE





1 DEMOLITION PARTIAL PLAN M-2 SCALE: 1/8" = 1'-0"

| CORRID | R DA | - HUV UNITS LOCATED ABOVE CEILING IN CORRIDOR (TYPICAL) | HUV-2 | |
|------------|------|---|-------|--|
| | | | | |
| SLR | | | | |
| | | | | |
| NC. ⊚ [| | N.I.C. | | |



2 NEW WORK PARTIAL PLAN M-2 SCALE: 1/8" = 1'-0"

| HUV-4 | CORRIDOR | HUV-3 HUV UNITS LOCATED ABOVE CEILING IN HUV-2 CORRIDOR (TYPICAL) |
|-------|----------|---|
| | | |
| | | |
| © () | | |
| | | |

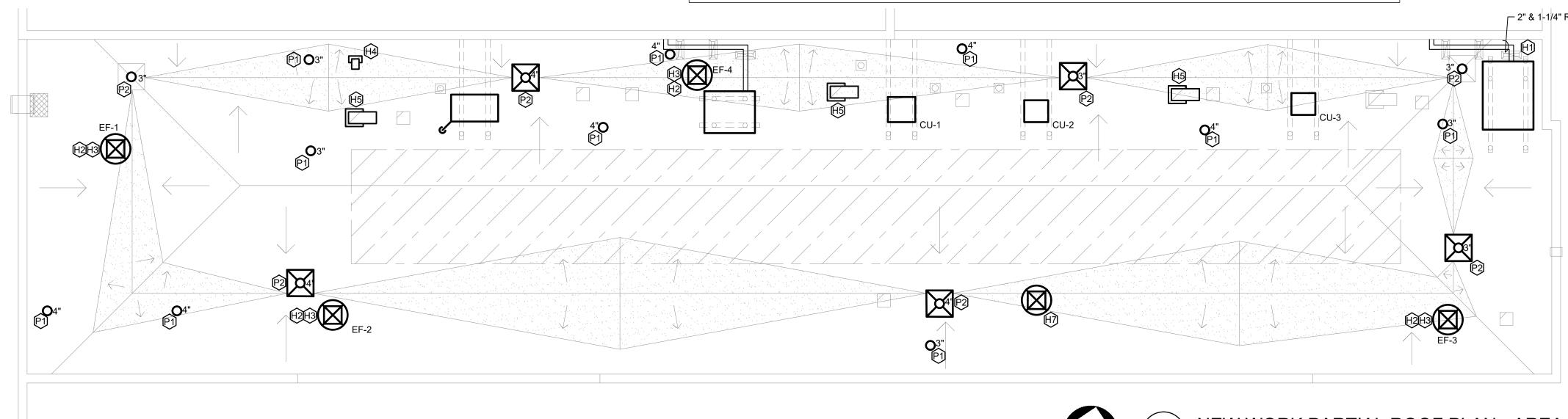
| | SUBMISSIONS & REVISIONS MARK DATE DESCRIPTION 4/3/20 BIDDING RELEASE I I |
|---|--|
| HVAC KEYNOTES INISTALL EXISTING SUPPLY REGISTER PRESERVED DURING DEMOLITION IN NEW CEILING. Image: PROVIDE 24*X24* PRICE MODEL SMD SUPPLY REGISTER (OR EQUIVALENT) WITH 12* NECK. PROVIDE VOLUME DAMPER AT END OF EXISTING DUCTWORK AND BALANCE TO AIR FLOW RECORDED PRIOR TO DEMOLITION. Image: PROVIDE 12*X12* PRICE MODEL SMD SUPPLY REGISTER (OR EQUIVALENT) WITH 18* NECK. PROVIDE VOLUME DAMPER AT END OF EXISTING DUCTWORK AND BALANCE TO AIR FLOW RECORDED PRIOR TO DEMOLITION. Image: PROVIDE 12*X12* PRICE MODEL SMD SUPPLY REGISTER (OR EQUIVALENT) WITH 8* NECK. PROVIDE VOLUME DAMPER AT END OF EXISTING DUCTWORK AND BALANCE TO AIR FLOW RECORDED PRIOR TO DEMOLITION. Image: Notation of the text to thext to text to text to text to text to text to | REROOFING AND RELATED WORK AREA F WILLIAM H. HALL HIGH SCHOOL 975 NORTH MAIN STREET, WEST HARTFORD, CONNECTICUT |
| HVAC DEMOLITION NOTES Image: Strain | JACUNSKI HUMES JACUNSKI HUMES ARCHITTECTS, LLC 15 MASSIRIO DRIVE SUITE 101 BERLIN, CT 06037 TEL 860-828-9221 FAX 860-828-9223 |
| REGISTER FOR REINSTALLATION IN NEW CEILING. REMOVE DUCTWORK AS REQUIRED FOR INSTALLATION OF NEW COOLING COIL. REMOVE COOLING COIL FROM FAN COIL UNIT AND THE ASSOCIATED REFRIGERANT PIPING. FAN COIL UNIT AND ASSOCIATED DUCTWORK AND HOT WATER PIPING SHALL REMAIN. PRESERVE CONDENSATE PIPING FOR RECONNECTION. | MECHANICAL PARTIAL PLANS |
| PIPING FOR RECONNECTION. <u>HVAC GENERAL DEMOLITION NOTES</u> 1. UNLESS OTHERWISE NOTED, ALL HVAC EQUIPMENT SHALL BE EXISTING TO REMAIN. | PROJ. NO. JH1905 SCALE As Noted DATE APRIL 3, 2020 |

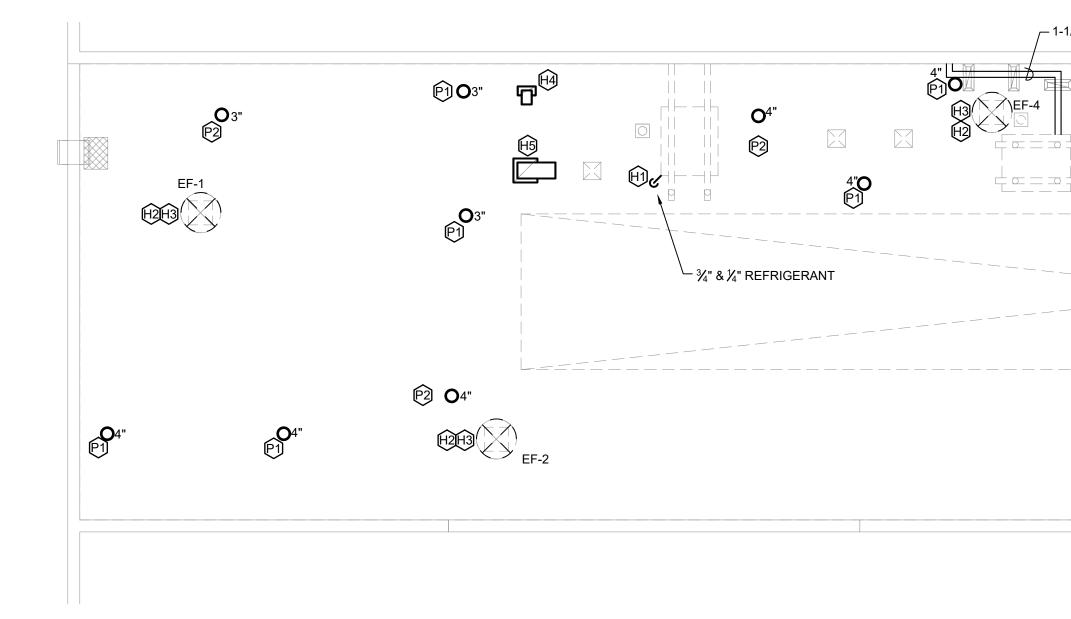
| AIR COOLED CONDENSER SCHEDULE | | | | | | | | | | | | | |
|-------------------------------|--------|-----------------|----------------|------|---------------------------|------|-----------------------|-----------------------|---------|--------|-------|-----------------------|-------|
| TAG | MFR | MODEL NUMBER | AMBIE TEMP(| | TOTAL I REJEC (BTU/ | FION | NUMBER OF CIRCUITS | REFRIGERA TYPE | NT SEER | | | | |
| CU-1 | TRANE | 4TTA4 | 95 | | 41,50 |)0 | 1 | R-410A | 14.25 | | | | |
| CU-2 | TRANE | 4TTA4 | 95 | | 35,000 | | 35,000 | | 1 | R-410A | 14.50 | | |
| CU-3 | TRANE | 4TTA4 | 95 | | 35,000 | | 35,000 | | 1 | R-410A | 14.50 | | |
| | | | ELI | ECT | RICAL | - | | | | | | | |
| TAG | WEIGHT | MCA | МС | | СВ | VO | LT/PHASE | SERVICES | REMARKS | | | | |
| CU-1 | 184 | 8.0 | | 15.0 | | 15.0 | | 15. | | | 460/3 | GUIDANCE- EXTERIOR | 1,2,3 |
| CU-2 | 155 | 8.0 | 15.0 | | 15.0 | | 460/3 | GUIDANCE- INTERIOR | 1,2,3 | | | | |
| CU-3 | 155 | 8.0 | | 15 | 5.0 | | 460/3 | COMPUTER LAB | 1,2,3 | | | | |

GENERAL NOTES/ACCESSORIES: 1. ACCEPTABLE MANUFACTURERS BY: JCI & DAKIN

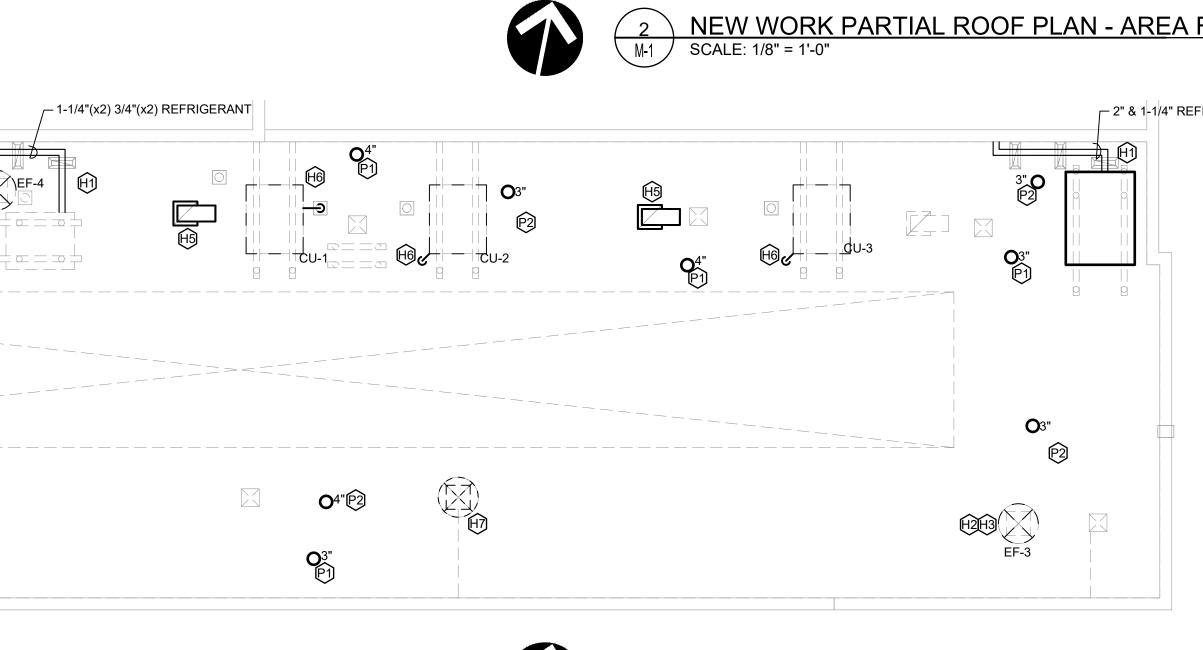
 PROVIDE CORRESPONDING MODEL HPXC DX COOLING COIL. INSTALL COIL IN DUCTWORK DOWNSTREAM OF FAN COIL UNIT. REFER TO DRAWING M-2.

3. CONNECT EXISTING CONTROL WIRING TO NEW CONDENSING UNITS.





| | | | F | AN SCH | EDULE | | | | |
|---|--|---|---|--|--|----------------|---------------------------|---------------|------------------|
| TAG | MFR | MODEL NUMBER | TYPE | DRIVE | CFM | ESP (IN WC) | RPM | MOTOR HP | SPEED CONTROL |
| EF-1 | СООК | 120C28D (VF) | ROOF | DIRECT | 975 | 0.5 | 1236 | 1/3 | ECM |
| EF-2 | СООК | 101C17DEC | ROOF | DIRECT | 525 | 0.5 | 1411 | 1/4 | FAN MTD |
| EF-3 | соок | 101C17DEC | ROOF | DIRECT | 525 | 0.5 | 1411 | 1/4 | FAN MTD |
| EF-4 | СООК | 101C17DEC | ROOF | DIRECT | 525 | 0.5 | 1411 | 1/4 | FAN MTD |
| TAG | VOLTS/ PHASE | EXISTING CURE SIZE | SONES | | | | REMARKS | | |
| EF-1 | 115/1 | 23" X 23-1/2 | , 8.0 | | | 1, | 2, 3, 4, 5 | | |
| EF-2 | 115/1 | 24" X 24" | 7.7 | | | 1, | 2, 3, 4, 5 | | |
| EF-3 | 115/1 | 24" X 24" | 7.7 | | | 1, | 2, 3, 4, 5 | | |
| EF-4 | 115/1 | 18" X 18" | 7.7 | | | 1, | 2, 3, 4, 5 | | |
| | | · | | SOUND POW | /ER (dB) | | | | |
| TAG | 1ST OCTAVE | 2ND OCTAVE | 3RD OCTAVE | 4TH OCTAVE | | TH TAVE (| 6TH DCTAVE | 7TH OCTAVE | 8TH OCTAVE |
| EF-1 | 66 | 69 | 73 | 63 | 6 | 0 | 57 | 52 | 47 |
| EF-2 | 66 | 68 | 72 | 64 | 5 | 9 | 55 | 50 | 47 |
| EF-3 | 66 | 68 | 72 | 64 | 5 | 9 | 55 | 50 | 47 |
| EF-4 | 66 | 68 | 72 | 64 | 5 | 9 | 55 | 50 | 47 |
| 2. REMO ADAP 3. PROV INSTA 4. PROV 5. PRIOF FAN: a. b. | VE EXISTING F TACURB TO T IDE FAN MOUI ILLATION WITH IDE STAINLESS TO ORDERIN | | ROVIDE NEW R KISTING CURB OL, PRE-WIRE NT CURB. EASE LATCHES NS, THE CON | OOF CURB. TO REPLAC D NEMA 1 1 S. TRACTOR SH | VERIFY EXIS EMENT FAN. DISCONNECT HALL OBTAIN | SWITCH AND | BACKDRAFT /ING INFORMA | DAMPER SIZED |) FOR |
| d. THE (CONF | any addition contractor irm the sche | AL FAN PERFORMA SHALL FORWARD TH EDULED FAN WILL B ON ABOVE. THE C | IS INFORMATION E CAPABLE OF | ON TO THE F PERFORMI | NG AT THE | ANTICIPATED | OPERATING (| CONDITION AS | DETERMINED |





 $\begin{pmatrix} 1 \\ M-1 \end{pmatrix}$

| | PLUMBING KEYNOTES PI EXTEND EXISTING PLUMBING VENT TO 30" ABOVE FINISHED ROOF. REFER TO ROOF PLAN FOR VENT SIZES. VERIFY VENT SIZE IN FIELD PRIOR TO CONSTRUCTION. PI REMOVE EXISTING ROOF DRAIN. PROVIDE FROET 200C4 STANDARD ROOF DRAIN (OR EQUIVALENT) WITH ROOF GUARD AND ACCESSORIES AS REQUIRED BY ROOF CONSTRUCTION AND CONNECT TO EXISTING PIPING. REFER TO REOOF PLAN FOR ROOF DRAIN SIZES. VERIFY ROOF DRAIN SIZE IN FIELD PRIOR TO CONSTRUCTION. | SUBMISSIONS & REVISIONS MARK DATE DESCRIPTION 4/3/20 BIDDING RELEASE |
|------------------------|--|---|
| | CONSTRUCTION. <u>HVAC KEYNOTES</u> REMOVE INSULATION FROM EXISTING EXTERIOR REFRIGERANT PIPING. PROVIDE NEW FLEXIBLE ELASTOMERIC INSULATION WITH ALUMINUM JACKET ON EXISTING REFRIGERANT PIPING. EXISTING REFRIGERANT PIPING AND CONDENSING UNIT SHALL REMAIN. REMOVE EXISTING EXHAUST FAN AND ROOF CURB. PROVIDE NEW EXHASUT FAN, ROOF CURB AND ADAPTACURB. REFER TO EXHAUST FAN SCHEDULE. MEASURE EXISTING EXHAUST FAN AIR FLOW PRIOR TO CONSTRUCTION. FOLLOWING INSTALLATION OF REPLACEMENT FAN, BALANCE THE REPLACEMENT FAN TO MATCH THE PERFORMANCE OF THE EXISTING FAN. REMOVE EXISTING GOOSENECK AND ROOF CURB. PROVIDE NEW 12" HIGH, 12"x6" ROOF CURB (VERIFY DIMENSIONS IN FIELD), GRAVITY BACKDRAFT DAMPER (SIZED FOR INSTALLATION IN THE ROOF CURB) AND 10"x4" GOOSENECK WITH 1/2" STAINLESS STEEL WIRE MESH SCREEN. REMOVE EXISTING GOOSENECK AND ROOF CURB. PROVIDE NEW 12" HIGH, 24"x24" ROOF CURB (VERIFY DIMENSIONS IN | |
| | FIELD), GRAVITY BACKORAFT DAMPÉR (SIZED FOR INSTALLATION IN THE ROOF CURB) AND 16"x16" GOOSENECK WITH 16"x24" DISCHARGE OPENING WITH 1/2" STAINLESS STEEL WIRE MESH SCREEN. | REROOFING AND RELATED WORK AREA F MILLIAM H. HALL HIGH SCH 975 NORTH MAIN STREET, WEST HARTFORD, CONNE |
| <u>F</u> EFRIGERANT | WOTOR REMOVABLE VUBRATION ALUMINUM ELECTRICAL Spin ALUMINUM CONDUIT GUIDE ALUMINUM BIRD SCREEN ALL AROUND ADAPTACURB CENTRIFUGAL PREFABRICATED CENTRIFUGAL CURB MWHEEL ADAPTACURB ALUMINUM BIRD SCREEN ALL AROUND CENTRIFUGAL CENTRIFUGAL PREFABRICATED CENTRIFUGAL BACKDRAFT ALUMINUM BIRD SCREEN ALL AROUND BACKDRAFT ALL AROUND BACKDRAFT MINEL N.T.S. | JACUNSKI HUMES JACUNSKI HUMES ARCHITTECTS, LLC 15 MASSIRIO DRIVE SUITE 101 BERLIN, CT 06037 TEL 860-828-9221 FAX 860-828-9223 MECHANICAL AND PLUMBING DEMOLITION AND NEW WORK ROOF PLANS PROJ. NO. JH1905 SCALE AS Noted DATE |

| | NOTE: ALL MOUNTING HEIGHTS GIVEN ARE TO CENTERLINE OF | | | | |
|---|--|---|--|----------------------------|--|
| MBOL | DESCRIPTION | SYMBOL | DESCRIPTION | | |
| • | PENDANT MOUNTED LIGHT FIXTURE | €□ _{M/S} | EMERGENCY SWITCH - MOUNT AT 48" A.F. | .F M=MASTER - S=S | LAVE |
| <u> </u> | PENDANT MOUNTED LIGHT FIXTURE | | JUNCTION BOX | | |
| | CEILING MOUNTED LIGHT FIXTURE | | JUNCTION BOX WITH 120V POWER FOR TE | | |
| <u>ю</u> | WALL MOUNTED LIGHT FIXTURE | $\overset{\leftarrow}{}$ | JUNCTION BOX FOR CATV OUTLET WITH 1 | I 1/4" CONDUIT TO CE | ILING |
| 0 | SURFACE MOUNTED LIGHT FIXTURE | <u> </u> | MOTOR | | |
| 0 | RECESSED DOWN LIGHT FIXTURE | | NON-FUSED DISCONNECT SWITCH | | |
| <u> </u> | RECESSED 2'X4' LIGHT FIXTURE | | FUSED DISCONNECT SWITCH | | |
| | RECESSED 2'X2' LIGHT FIXTURE | | MAGNETIC MOTOR STARTER | | |
| $\mathbf{X}_{\mathbf{i}}$ | WALL MOUNTED FIXTURE | | COMBINATION DISCONNECT SWITCH/MAG | SNETIC MOTOR STAR | TER |
| • | LINEAR FIXTURE | | | | |
| 8 | SINGLE FACE EXIT SIGN WITH BATTERY AND DIRECTIONAL ARROWS UNIVERSAL MOUNT | | | | |
| | DOUBLE FACE EXIT SIGN WITH BATTERY AND DIRECTIONAL ARROWS UNIVIVERSAL MOUNT | | BRANCH CIRCUIT WIRING | | |
| | EMERGENCY BATTERY UNIT WITH TWO DIRECTIONAL HEADS | | BRANCH CIRCUIT FEEDER | | |
| 4₽ | EMERGENCY REMOTE, WEATHERPROOF, WITH DOUBLE DIRECTIONAL HEADS | | | | |
| S | | | FLEXIBLE EQUIPMENT CONNECTION | | |
| | SINGLE POLE TOGGLE SWITCH | | FIXED/HARD - WIRED EQUIPMENT CONNE | ECTION | |
| S₃ S₄ | | | | | |
| 7 | FOUR WAY TOGGLE SWITCH | ТС | TIMECLOCK | | |
| S _K | | | | | |
| S _{3K} | | | SECURITY SYSTEM CAMERA | | |
| S _{4K} S _τ | FOUR WAY KEYED TOGGLE SWITCH MOUNT | | SECURITY SYSTEM DOOR LOCK | | |
| | THERMAL OVERLOAD SWITCH - MOUNT AT FRACTIONAL HP MOTORS | | SECURITY SYSTEM MOTION SENSOR | | |
| S _D | | | SECURITY SYSTEM CARD READER | | |
| S _{D3} | | | SECURITY SYSTEM DOOR CONTACT | | |
| S _{PS} | PROJECTION SCREEN SWITCH | | SECURITY SYSTEM KEY PAD | | |
| S _{oc} | WALL MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR SWITCH | <u>8</u> | FLOW SWITCH | | |
| BP T A | DOORBELL BUZZER/CHIME - MOUNT 7'-0" A.F.F. | TS PS | | | |
| <u>s (s)</u> | CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR | | PRESSURE SWITCH | | |
| <u>©</u> | PHOTOCELL | | WALL MOUNTED SPEAKER | | |
| | | © | CEILING MOUNTED SPEAKER | | |
| ₩ E/G | EMERGENCY ELECTRIC/GAS SHUTOFF PUSHBUTTON OPERATOR | | INTERCOM STATION | | |
| ⊕ | GROUNDED DUPLEX RECEPTACLE | | COMBINATION SPEAKER/CLOCK | | |
| - €A | GROUNDED DUPLEX RECEPTACLE - MOUNT ABOVE COUNTER OR BACKSPLASH 42" A.F.F. | Đ | CLOCK | | |
| =⊖ C | GROUNDED DUPLEX RECEPTACLE - MOUNT AT CEILING | | | | |
| ≠€GFI | GROUNDED DUPLEX GFI RECEPTACLE | | + | | |
| € WP | GROUNDED DUPLEX GFI RECEPTACLE "WEATHERPROOF WHILE IN-USE" COVER | | | | |
| ≠ €S | GROUNDED DUPLEX RECEPTACLE - STUB UP TO 24" A.F.F. ON 1" (MIN) RGS CONDUIT | | | | |
| €РМ | VERTICAL PLUGMOLD WITH OUTLETS AT 12" O.C 5' LONG | | | | |
| ₩M | GROUNDED GFI DUPLEX RECEPTACLE DEDICATED FOR MICROWAVE OVEN - | | 1 | | |
| ш | VERIFY EXAC MOUNTING LOCATION | | | | |
| <u>+</u> | GROUNDED DOUBLE DUPLEX RECEPTACLE | | | | |
| - | | | | | |
| ≠USB | GROUNDED GFI DUPLEX RECEPTACLE WITH INTERGRAL USB CHARGING PORT | | + | | |
| - 0 | | | | | |
| ю ГБ | SPECIAL PURPOSE RECEPTACLE - MATCH NEMA CONFIGURATION OF EQUIPMENT SERVED | | 1 | | |
| | FLOOR MOUNTED DEVICES AS LISTED ABOVE | | 1 | | |
| | RECESSED MOUNTED PANELBOARD | | | | |
| | SURFACE MOUNTED PANELBOARD | | + | | |
| | COMBINATION POWER/TEL/DATA POLE | | | | |
| <u>v</u> | TELEPHONE/DATA OUTLETS | | 1 | | |
| WAP | WIRELESS ACCESS POINT (WAP - WIRLESS ACCESS POINT) INCLUDE CAT 5e CABLE | ELECTRICAL LEGE | ND NOTES: IAY NOT BE USED | | |
| =1 | | | | | |
| <u> </u> | MANUAL FIRE ALARM PULL STATION - MOUNT AT 48" A.F.F. | _ | ABBRE | VIATIONS | |
| €) > 200° | HEAT DETECTOR HEAT DETECTOR 200° | | | | |
| €) ^{200°} | | A | | KW | |
| <u>)</u> | AREA SMOKE DETECTOR | AFF | | LFMC | |
| | DUCT SMOKE DETECTOR | AFG | ABOVE FINISHED GRADE | MAU | |
| | AREA COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR | AFI | | NL | |
| | ELEVATOR RETURN SMOKE DETECTOR | AHU | | NLE | |
| <u>)</u> | FIRE ALARM CARBON MONOXIDE DETECTOR | С | | OHD | |
| | FIRE ALARM REMOTE TEST SWITCH | СВ | | P | POLE |
| 4 | MAGNETIC DOOR HOLDER | СКТ | | PE | PRIMARY ELECTRIC SERVICE |
| | FIRE ALARM VISUAL ONLY INDICATING UNIT - MOUNT AT 6'-6" A.F.F. | CUH | | PH or Ø | PHASE |
| | FIRE ALARM SPEAKER/VISUAL INDICATING UNIT - MOUNT AT 6'-6" A.F.F. | DAC | DOOR ACCESS CONTROLLER | PNL | PANEL |
| | LIGHTING CONTROL RELAY | EBB | ELECTRIC BASEBOARD | PVC | |
| 1 | FIRE ALARM ADDRESSABLE OUTPUT MODULE | EBU | EMERGENCY BATTERY UNIT | RAP | REMOTE ANNUNCIATOR PANEL |
| D _{AOM} | | EF | EXHAUST FAN | RGS | RIGID GALVANIZED STEEL CONDUIT |
| B D _{aom} Daim | FIRE ALARM ADDRESSABLE INPUT MODULE | - | EMERGENCY POWERED | RLE | |
| Daom Daim Daim | | EM | ELECTRICAL METALLIC TUBING | RMC | RIGID METAL CONDUIT |
| Daom Daim Daim CP | FIRE ALARM ADDRESSABLE INPUT MODULE | EMT | | - | |
| Daom Daom Daim Daim CP A | FIRE ALARM ADDRESSABLE INPUT MODULE SPEAKER VOLUME CONTROL | EMT ETR | EXISTING TO REMAIN | RTU | ROOFTOP UNIT |
| Daom Daim ^{Svc} CP A MP | FIRE ALARM ADDRESSABLE INPUT MODULE SPEAKER VOLUME CONTROL FIRE ALARM CONTROL PANEL | EMT ETR EWC | EXISTING TO REMAIN ELECTRIC WATER COOLER | SE | SECONDARY ELECTRIC SERVICE |
| Daom Daom Daim Daim CP CP A MP A | FIRE ALARM ADDRESSABLE INPUT MODULE SPEAKER VOLUME CONTROL FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE ANNUNCIATOR PANEL | EMT ETR | EXISTING TO REMAIN ELECTRIC WATER COOLER ELECTRIC WATER HEATER | SE T | SECONDARY ELECTRIC SERVICE TELEPHONE SERVICE |
| Daom Daom Daim Daim CP CP A MP A | FIRE ALARM ADDRESSABLE INPUT MODULE SPEAKER VOLUME CONTROL FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE ANNUNCIATOR PANEL HAZARDOUS GAS MONITOR PANEL FURNISHED BY DIV. 25, WIRED BY DIV. 26 | EMT ETR EWC | EXISTING TO REMAIN ELECTRIC WATER COOLER | SE T TV | SECONDARY ELECTRIC SERVICE TELEPHONE SERVICE TELEVISION |
| Daom Daom Daim Daim CP CP A MP A | FIRE ALARM ADDRESSABLE INPUT MODULE SPEAKER VOLUME CONTROL FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE ANNUNCIATOR PANEL HAZARDOUS GAS MONITOR PANEL FURNISHED BY DIV. 25, WIRED BY DIV. 26 EMERGENCY "CALL-FOR-AID" BUZZER/LIGHT - MOUNT AT 7'-6" A.F.F. | EMT ETR EWC EWH | EXISTING TO REMAIN ELECTRIC WATER COOLER ELECTRIC WATER HEATER FIRE ALARM FIRE ALARM CONTROL PANEL | SE T | SECONDARY ELECTRIC SERVICE TELEPHONE SERVICE |
| IN I DAOM DAIM Svc CP IA IMP YA SA SA | FIRE ALARM ADDRESSABLE INPUT MODULE SPEAKER VOLUME CONTROL FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE ANNUNCIATOR PANEL HAZARDOUS GAS MONITOR PANEL FURNISHED BY DIV. 25, WIRED BY DIV. 26 EMERGENCY "CALL-FOR-AID" BUZZER/LIGHT - MOUNT AT 7'-6" A.F.F. | EMT ETR EWC EWH FA FACP FMC | EXISTING TO REMAIN ELECTRIC WATER COOLER ELECTRIC WATER HEATER FIRE ALARM FIRE ALARM CONTROL PANEL FLEXIBLE METALLIC TUBING | SE T TV TX UNO | SECONDARY ELECTRIC SERVICE TELEPHONE SERVICE TELEVISION TRANSFORMER UNLESS NOTED OTHERWISE |
| Daom Daom Daim Daim CP CP A MP A | FIRE ALARM ADDRESSABLE INPUT MODULE SPEAKER VOLUME CONTROL FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE ANNUNCIATOR PANEL HAZARDOUS GAS MONITOR PANEL FURNISHED BY DIV. 25, WIRED BY DIV. 26 EMERGENCY "CALL-FOR-AID" BUZZER/LIGHT - MOUNT AT 7'-6" A.F.F. | EMT ETR EWC EWH FA FACP | EXISTING TO REMAIN ELECTRIC WATER COOLER ELECTRIC WATER HEATER FIRE ALARM FIRE ALARM CONTROL PANEL | SE T TV TX | SECONDARY ELECTRIC SERVICE TELEPHONE SERVICE TELEVISION TRANSFORMER UNLESS NOTED OTHERWISE WIRE |
| Daom Daom Daim Daim CP CP A MP A | FIRE ALARM ADDRESSABLE INPUT MODULE SPEAKER VOLUME CONTROL FIRE ALARM CONTROL PANEL FIRE ALARM REMOTE ANNUNCIATOR PANEL HAZARDOUS GAS MONITOR PANEL FURNISHED BY DIV. 25, WIRED BY DIV. 26 EMERGENCY "CALL-FOR-AID" BUZZER/LIGHT - MOUNT AT 7'-6" A.F.F. | EMT ETR EWC EWH FA FACP FMC | EXISTING TO REMAIN ELECTRIC WATER COOLER ELECTRIC WATER HEATER FIRE ALARM FIRE ALARM CONTROL PANEL FLEXIBLE METALLIC TUBING | SE T TV TX UNO | SECONDARY ELECTRIC SERVICE TELEPHONE SERVICE TELEVISION TRANSFORMER UNLESS NOTED OTHERWISE |

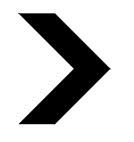
| | | | LIC | SHTING FI | XTURE SCHEDUL | E | | | | | | |
|---------|------------------|---|------------|------------------|----------------|-------------|------------|---------|---------|-------|---------|------|
| FIXTURE | | | LAMP | | | | FIXTURE | MOUNT | WATTS / | | | |
| ITEM | MFG | MODEL # | TYPE | TEMP | FIXTURE TYPE | DIM | SIZE | TYPE | FIXTURE | LPW | VOLTS | NOTE |
| A | LEDALITE | 7715LBBVA20EDEWN, 83 CRI, 5500LM/FT | LED | 3500 | DIR/ INDIRECT | 0-10 | 4' | PENDANT | 42.3 | 124.4 | 120-277 | 1,2 |
| AE | LEDALITE | 7715LBBVA20NDEWN, 83 CRI, 5500LM/FT | LED | 3500 | DIR/ INDIRECT | 0-10 | 4' | PENDANT | 42.3 | 124.4 | 120-277 | 1,2 |
| В | SELUX | L36-1B30-35-A5-F4-02-WH-UNV-DIM-DL | LED | 3500 | DIRECT | 0-10 | 2' | SURFACE | 30.5 | 99.64 | 120-277 | 1, |
| B8 | SELUX | L36-1B30-35-A5-F4-08-WH-UNV-DIM-DL | LED | 3500 | DIRECT | 0-10 | 8' | SURFACE | 30.5 | 99.64 | 120-277 | 1, |
| B12 | SELUX | L36-1B30-35-A5-F4-12-WH-UNV-DIM-DL | LED | 3500 | DIRECT | 0-10 | 12' | SURFACE | 30.5 | 99.64 | 120-277 | 1, |
| С | DAY-BRITE | OWL430L835UNVDIM | LED | 3500 | DIRECT | 0-10 | 1x4 | SURFACE | 37.2 | 106 | 120-277 | 1,4 |
| D | DAY-BRITE | 2FGG38L8354DUNVDIM | LED | 3500 | DIRECT | 0-10 | 2x4 | GRID | 32 | 120 | 120-277 | 1, |
| DE | DAY-BRITE | 2FGG38L8354DUNVDIMEMLED | LED | 3500 | DIRECT | 0-10 | 2x4 | GRID | 32 | 120 | 120-277 | 1,! |
| EM | CHLORIDE | S18LH6WICDLT | HALOGEN | | | | | WALL | 17 | | 120-277 | |
| NOTES | | | | | | | | | | | | |
| 1 | COORDINA | TE COLOR WITH ARCHITECT. | | | | | | | | | | |
| 2 | PENDANT | TYPE FIXTURE, 8FT AFF, VERIFY CEILING TYP | E AND MO | UNTING R | EQUIREMENTS B | EFORE OR | DER. | | | | | |
| 3 | CEILING SU | JRFACE MOUNTED, A5 OPTICS, VARIOUS L | ENGTH, VE | RIFY MOU | NTING CONDITIC | ON IN FIELI | D BEFORE C |)RDER. | | | | |
| 4 | CEILING SU | RFACE MOUNTED 1X4 LED WRAP AROUND | I | | | | | | | | | |
| 5 | GRID MOU | NTED 2'X4' LED FIXTURE WITH 3800 LUMEN | S | | | | | | | | | |
| 6 | PROVIDE A | LL HARDWARE REQUIRED TO PLACE FIXTUR | RES IN TAN | DUM | | | | | | | | |

| VOLTS | NOTES |
|---------|-------|
| 120-277 | |
| 120-277 | |
| 120-277 | 7 1,3 |
| 120-277 | 7 1,3 |
| 120-277 | 7 1,3 |
| 120-277 | 7 1,4 |
| 120-277 | 7 1,5 |
| 120-277 | 1,5 |
| 120-277 | 7 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| | ELECTRICAL GENERAL NOTES |
|--|--|
| REGULATORY AGE | BE PERFORMED IN COMPLIANCE WITH CURRENT APPLICABLE CODES, ORDINANCES, THE NCIES HAVING JURISDICTION AND THE SPECIFICATIONS. THE SPECIFICATIONS MAY EXCEED THE THE CODE, IN WHICH CASE, THE SPECIFICATION MUST BE FOLLOWED. |
| ELECTRICAL SYSTE | ESE DOCUMENTS IS FOR THE MEP TRADES TO FURNISH AND INSTALL COMPLETE MECHANICAL A EMS. THE SPECIFIED ELECTRICAL SYSTEM SHALL BE COMPLETE IN ALL RESPECTS; OPERATIONAL D, APPROVED BY THE AUTHORITIES HAVING JURISDICTION AND READY FOR BENEFICIAL USE BY |
| PROVIDED ON THE BIDDING PACKAGE | L OBTAIN AND REVIEW ALL CONTRACT DOCUMENTS BEFORE SUBMITTING A BID. INFORMATION IS VARIOUS DRAWINGS, SCHEDULES, SPECIFICATIONS AND ALL OF THE VARIOUS DOCUMENTS IN T THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND FORM A TOTAL PROJECT DESIGN AND RCE FOR CONSTRUCTION PURPOSES. |
| THE CONTRACT. CO ANY MODIFICATION | E DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUI DORDINATE LOCATIONS OF EQUIPMENT WITH OTHER TRADES BEFORE AND DURING CONSTRUCT I TO THE EQUIPMENT LAYOUT, REQUIRED FOR INSTALLATION, IS TO BE PERFORMED UNDER THE MENT, AT NO ADDITIONAL COST. REFER TO DETAILS, SCHEDULES AND SPECIFICATIONS FOR MATION |
| 5. THE CONTRACTOR DRAWINGS ARE DIA CONTRACTOR SHA | SHALL BECOME THOROUGHLY FAMILIAR WITH THE PROJECT DOCUMENTS OF ALL TRADES. THE AGRAMMATIC AND SHOW THE GENERAL ARRANGEMENT OF EQUIPMENT AND CONDUITS. THE LL COORDINATE THE EXACT LOCATION OF EQUIPMENT AND CONDUITS INSTALLATION WITH ALL OMMENCING WORK. |
| INACCESSIBLE CEI PROVIDED. IF AN A IT IS TO BE INSTALI | BE INSTALLED IN ACCESSIBLE LOCATIONS, WHEN EQUIPMENT MUST BE LOCATED ABOVE AN LING (GYP BOARD OR EQUIVALENT), OR BEHIND A WALL, AN APPROPRIATE ACCESS DOOR SHALL CCESS DOOR IS REQUIRED, IT SHALL BE OF A RATING APPROPRIATE FOR THE WALL/CEILING IN V .ED. THE CONTRACTOR SHALL COORDINATE LOCATIONS OF ACCESS PANELS FOR ALL DEVICES, S, WITH THE ARCHITECT, PRIOR TO INSTALLATION OF SUCH DEVICES OR OTHER APPURTENANC |
| 7. WHERE A CONFLIC | T OCCURS BETWEEN THE DOCUMENTS, IT SHALL BE BROUGHT TO THE ATTENTION OF THE |
| 8. THIS CONTRACT S INSTALL CONDUITS STRUCTURE. THE (MAKES AS A RESUI | Y AS PART OF THE BID THE LARGER QUANTITY AND/OR MORE EXPENSIVE ITEM(S). HALL INCLUDE ALL THE NECESSARY CONDUITS, FITTINGS, TRANSITIONS ETC. AS REQUIRED TO AND EQUIPMENT, AND TO AVOID ANY CONFLICTS WITH OTHER TRADES AND THE BUILDING CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS, OMISSIONS OR ERRORS H T OF HIS FAILURE TO COORDINATE WITH OTHER TRADES OR BECOME FULLY FAMILIAR WITH THINTS OF ALL TRADES. |
| 9. DO NOT INSTALL A MECHANICAL ROOI | NY ELECTRICAL PANELS, TRANSFORMERS, SPECIAL EQUIPMENT, BELOW PIPING OR THROUGH IS, THAT ARE NOT ASSOCIATED WITH OR SERVE THE RESPECTIVE ROOMS. COORDINATE THE HANICAL EQUIPMENT IN THE FIELD AND ADJUST AS NECESSARY. |
| 10. ALL HOMERUNS S NOTED. | HALL BE 2#12, 1#12G., 3/4"C TO 20A-1P CIRCUIT BREAKER IN PANEL DESIGNATED UNLESS OTHER |
| 11. ALL 120 VAC (277 UNLESS OTHERWIS | VAC) CIRCUITS EXCEEDING 150' IN LENGTH SHALL BE INCREASED TO 2#10, 1#10G, 3/4" CONDUIT SE NOTED. |
| 12. ALL BRANCH CIRC ALLOWED. | CUITS SHALL BE PROVIDED WITH SEPARATE NEUTRALS. USE OF COMMON NEUTRALS WILL NOT E |
| 13. FIELD VERIFY WIT REQUIREMENTS OF | H MANUFACTURER'S PROVIDED EXACT ELECTRICAL CHARACTERISTICS AND CONNECTION ALL OPERATIONAL EQUIPMENT PRIOR TO MAKING ELECTRICAL POWER CONNECTION. FURNISH SCONNECT AS REQUIRED BY NEC. |
| | CATED WITHIN 6' OF A WATER SOURCE, OR OUTSIDE, AND WHERE REQUIRED BY CODE SHALL B CI PROTECTION, WHETHER INDICATED OR NOT. |
| | TACLES SHALL BE PROVIDED WITH "CAST ALUMINUM" LOCKABLE COVERS RATED "WEATHER-PR CKS SHALL BE KEYED ALIKE. |
| | TRACTOR SHALL PROVIDE ALL REQUIRED SLEEVES AND FIRE STOP FOR CONDUITS AND CABLES RATED WALLS AND FLOORS. |
| | TRACTOR SHALL SEAL ALL CONDUITS PENETRATING EXTERIOR WALLS. L BE IN CONDUIT, UNLESS OTHERWISE INDICATED. CONDUITS SHALL BE RUN CONCEALED IN NE |
| 19. ELECTRICAL CON ROUGHING OR INS | TRACTOR SHALL COORDINATE ALL LOCATIONS OF EQUIPMENT WITH DIV. 21, 22 AND 23 PRIOR TO |
| | TRACTOR SHALL COORDINATE WITH THE OWNER, ALL LOCATIONS OF EQUIPMENT BEING FURNIS |
| 21. REFER TO ARCHI | TECTURAL DRAWINGS FOR ELEVATIONS AND EXACT LOCATION OF DEVICES PRIOR TO ROUGHIN DUTLETS. |
| 22. ELECTRICAL CON | TRACTOR SHALL COORDINATE THE LOCATION OF DUCT SMOKE DETECTORS WITH DIV. 23. DUCT S SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR, INSTALLED BY DIV. 23. |
| | DEVICES LOCATED ON BUILDING EXTERIOR SHALL BE WEATHERPROOF RATED. |
| | R WIRING SHALL NOT PENETRATE STAIR ENCLOSURES UNLESS SPECIFICALLY SERVING EQUIPM FED WITHIN STAIR ENCLOSURE. |
| | D, PROVIDE FIXTURES WITH EMERGENCY BATTERY TO OPERATE LAMPS FOR 1 1/2 HOURS UPON R. WIRE EMERGENCY BATTERY AND EXIT LIGHTS TO LINE SIDE OF AREA LIGHTING CIRCUIT. |
| | EVRONS SHALL CONFORM TO NFPA 5-10.4.1.2 AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL NIMUM OF 40 FT. UNDER ALL SPACE CONDITIONS. PROVIDE DIRECTIONAL CHEVRONS AS INDICA |
| LIGHTING, RECEPT CONNECTED. PROV | WIRING IS SHOWN ON THE FLOOR PLANS. NUMERALS ADJACENT TO THE HOMERUN SYMBOLS F ACLES, MOTORS, APPLIANCES, ETC. INDICATE THE CIRCUIT NUMBER TO WHICH THE ITEMS ARE IDE BRANCH CIRCUIT WIRING FOR ALL ITEMS SHOWN IN ACCORDANCE WITH THESE GENERAL N CAL SPECIFICATIONS. |
| | ID 20 AMPERE BRANCH CIRCUITS SERVING RECEPTACLE OR LIGHTING SHALL BE 2 WIRE CIRCUIT VIDUAL NEUTRAL CONDUCTOR FOR EACH UNGROUNDED (HOT) CIRCUIT CONDUCTOR. DO NOT ONDUCTORS. |
| | ECTS REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF CEILING MOUNTED DEVICES. |
| 31. CONTRACTOR SH | ALL PROVIDE ALL NECESSARY MISCELLANEOUS STEEL FOR THE SUPPORT OF ALL EQUIPMENT, ND DUCTWORK, SUSPENDED FROM SLAB, STEEL, WALL OR TRUSSWORK. |
| 32. ALL PENETRATIO THROUGH PENETR SHALL BE TESTED | NS OF FLOORS AND WALLS (WHETHER OR NOT FIRE RESISTANCE RATED) SHALL BE PROVIDED V ATION PROTECTION SYSTEM (FIRESTOPPING). EACH THROUGH - PENETRATION PROTECTION SY N ACCORDANCE WITH ASTM E814 AND BE LISTED FOR THE TYPE OF FLOOR OR WALL ASSEMBLY |
| 33. IT IS NOT THE INT | THE TYPE OF PROTECTION SYSTEM. ENTION TO SHOW EVERY FITTING, HANGER, WIRE OR DEVICE, ALL SUCH ITEMS SHALL BE FURNI |
| 34. SEE SPECIFICATI | NECESSARY FOR A COMPLETE SYSTEM. DN SECTION "ELECTRICAL IDENTIFICATION" FOR PROPERLY LABELING EQUIPMENT WIRING, BOXI |
| | ALL DETERMINE THE QUANTITY OF CONDUCTORS REQUIRED FOR PROPER OPERATION OF ALL |
| SWITCHING SCHEM 36. PROVIDE ALL BON | IES. IDING AND GROUNDING REQUIRED BY THE NATIONAL ELECTRIC CODE, NFPA 70 AND AS REQUIR |
| LOCAL AUTHORITY | HAVING JURISDICTION. ONDING CONDUCTORS SHALL BE MINIMUM #8 SOLID INSULATED COPPER, PROVIDE ALL NECESS/ |
| FITTINGS, JUNCTIO | N BOXES, END FITTINGS, ETC., FOR A COMPLETE, CONTINUOUS INSTALLATION. |
| ARTICLE 250 OF NF | PA 70, THE NATIONAL ELECTRIC CODE (CURRENT ADOPTED EDITION). |
| | PORT THE EQUIPMENT AS REQUIRED BY CODE, THE AUTHORITY HAVING JURISDICTION, AND/OR ENGINEERED INSTALLATION DETAILS PER THE SPECIFICATIONS. THE CONTRACTOR'S SEISMIC |

ENGINEER SHALL REVIEW THE INSTALLATION AND PROVIDE A DETAILED REPORT FOR THE RECORD.

ELECTRICAL DEMOLITION 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 CONDITIONS. 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 AND CONNECTIONS, MECHANICAL AND ELECTRICAL DISRUPTIONS EFFECTING OTHER TRADES. INCLUDE ALL WORK REQUIRED TO ALLOW PHASED CONSTRUCTION WHERE NECESSARY. 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 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 6. THE LOCATION OF EXISTING ELECTRICAL SYSTEM SHOWN ON FLOOR PLANS, IS BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL FIELD VERIFY PRIOR TO COMMENCEMENT OF CONSTRUCTION, EXACT QUANTITY AND LOCATION(S) OF EXISTING EQUIPMENT, PANELS, CONDUITS, LIGHTING, ETC. TO BE REMOVED AND ADJUST 7. ALL EQUIPMENT, AND ASSOCIATED WIRING, CONDUITS INDICATED TO BE REMOVED OR RELOCATED, SHALL BE DISCONNECTED AND REMOVED, INCLUDING HANGERS AND OTHER COMPONENTS. NO EQUIPMENT, WIRING OR CONDUITS SHALL BE ABANDONED IN PLACE, UNLESS SPECIFICALLY NOTED. 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 WIRING OR CONDUIT WHICH MUST REMAIN ACTIVE, IMMEDIATELY GIVE NOTICE TO THE ENGINEER, GENERAL CONTRACTOR OR CONSTRUCTION 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 CLAIMED BY THE OWNER SHALL BECOME PROPERTY OF THE TRADE CONTRACTOR AND SHALL BE TRANSPORTED FROM THE SITE. SITE STORAGE OF REMOVED ITEMS WILL NOT BE 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 CONTRACTOR SHALL OBTAIN EXISTING ELECTRICAL DRAWINGS FROM THE OWNER IF AVAILABLE TO HELP DETERMINE FULL SCOPE OF WORK. LIGHTING FIXTURE NOTES . TYPE 'EM' EMERGENCY FIXTURES AND TYPE 'X' EXIT SIGNS SHALL BE WIRED TO LINE SIDE OF AREA LIGHTING CIRCUIT TO SENSE LOSS OF NORMAL POWER AND PROVIDE CONTINUOUS TRICKLE CHARGE, AND SHALL OPERATE AT A MINIMUM OF 1 1/2 HOURS UPON LOSS OF NORMAL POWER. SEE SCHEDULE. 2. DIRECTIONAL CHEVRONS SHALL CONFORM TO NFPA 5-10.4.1.2 AND SHALL BE IDENTIFIABLE AS A DIRECTIONAL INDICATOR AT A MINIMUM OF 40 FT. UNDER ALL SPACE CONDITIONS. SEE DETAIL BELOW.



EXIT SIGN DIRECTIONAL INDICATOR

3. ALL FIXTURES TO BE LED WITH 0-10V DRIVERS STANDARD. ALL FIXTURES TO BE COLOR TEMPERATURE 3500°K. I. PROVIDE ERICO FASTENING PRODUCTS (CADDY) CAT. №. 515 OR 515A LIGHT FIXTURE SUPPORT CLIPS ON ALL RECESSED LIGHT FIXTURES. PROVIDE MINIMUM FOUR (4) PER FIXTURE.

5. IN ADDITION TO THE REQUIREMENTS OF THE IBC AND THE NEC, ALL RECESSED LIGHT FIXTURES SHALL BE PROVIDED WITH SUPPORT WIRES AT A MINIMUM OF FOUR (4) PER FIXTURE AND LOCATED NOT MORE THAN SIX (6") INCHES FROM EACH CORNER, EXTENDED AND ATTACHED TO THE BUILDING STRUCTURE. HANGER WIRES SHALL BE GALVANIZED CARBON STEEL, ASTM A641, SOFT TEMPER, PRE-STRETCHED WITH A YIELD STRESS LOAD OF AT LEAST THREE (3) TIMES DESIGN LOAD BUT NOT LESS THAN 12 GAUGE (0.106"). FOR ROUND FIXTURES OR FIXTURES SMALLER THAN THE CEILING GRID, PROVIDE A MINIMUM OF FOUR (4) WIRES PER FIXTURE AND LOCATE AT EACH CORNER OF THE CEILING GRID IN WHICH THE FIXTURE IS TO BE LOCATED. ADDITIONALLY, WHERE FIXTURES OF SIZES LESS THAN THE CEILING GRID ARE INDICATED TO BE CENTERED IN THE ACOUSTICAL PANEL, SUCH FIXTURES SHALL BE SUPPORTED WITH A MINIMUM OF TWO (2) 3/4" METAL CHANNELS SPANNING AND SECURED TO THE CEILING TEES.

6. VERIFY ALL LIGHT FIXTURE FINISHES WITH ARCHITECT PRIOR TO PURCHASE.

ORIGIN.

SYSTEM.

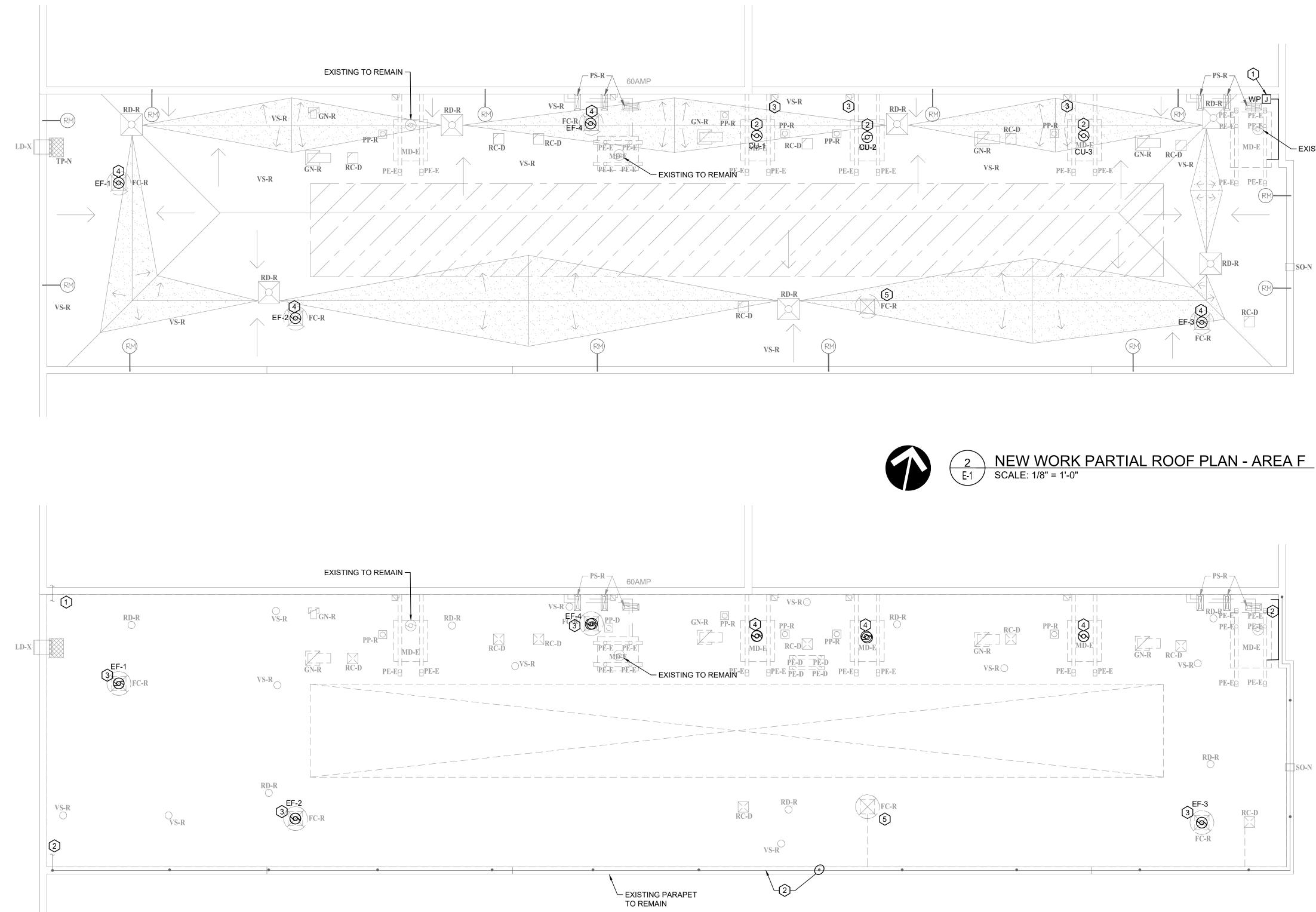
AS NECESSARY.

MANAGER.

PERMITTED.

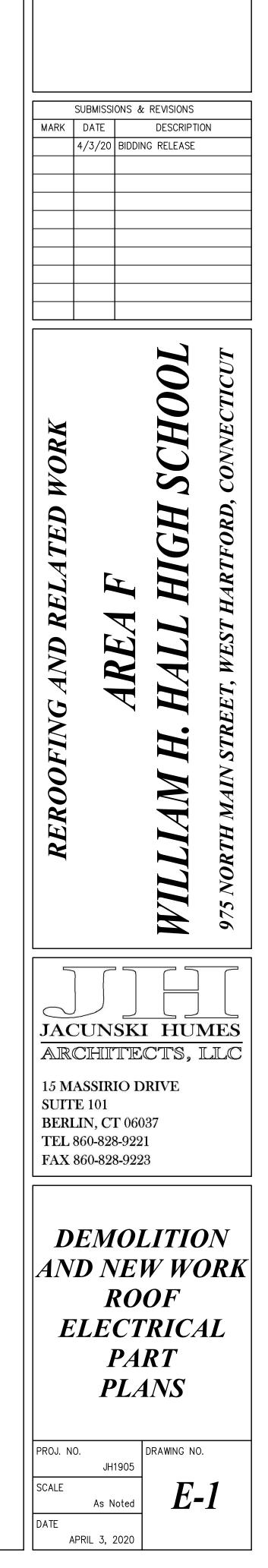
7. VERIFY ALL LIGHT FIXTURE MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO INSTALLATION.

| MARK | SUBMISSI DATE 4/3/20 | | CREVISIONS DESCRIPTIONS NG RELEASE | NC | | |
|--|--|----------|--|---|--|--|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| REROOFING AND RELATED WORK | | AKEAF | WILLIAM H. HALL HIGH SCHOOL | 975 NORTH MAIN STREET, WEST HARTFORD, CONNECTICUT | | |
| JACUNSKI HUMES JACUNSKI HUMES ARCHITTECTS, LLC 15 MASSIRIO DRIVE SUITE 101 BERLIN, CT 06037 TEL 860-828-9221 FAX 860-828-9223 | | | | | | |
| ELECTRICAL LEGENDS NOTES AND SCHEDULES | | | | | | |
| | LE NOZ | GI TE | ENDS S AN | S D | | |
| | <i>LE</i> <i>NO</i> 2 <i>SCH</i> | GI TE | ENDS S AN | | | |









GENERAL NOTES:

- 1. ALL CONDENSING UNITS ARE 480V 3PHASE.
- 2. All NEW CONDUCTORS SHALL BE THWN-2
- 3. LESS THAN 6FT OF LFMC SHALL BE USED TO CONNECT TO VIBRATING MACHINERY. CONTINUE TO DISCONNECT SWITCH WITH RMC TO DISCONNECT SWITCH.

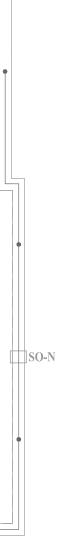
DRAWING NOTES:

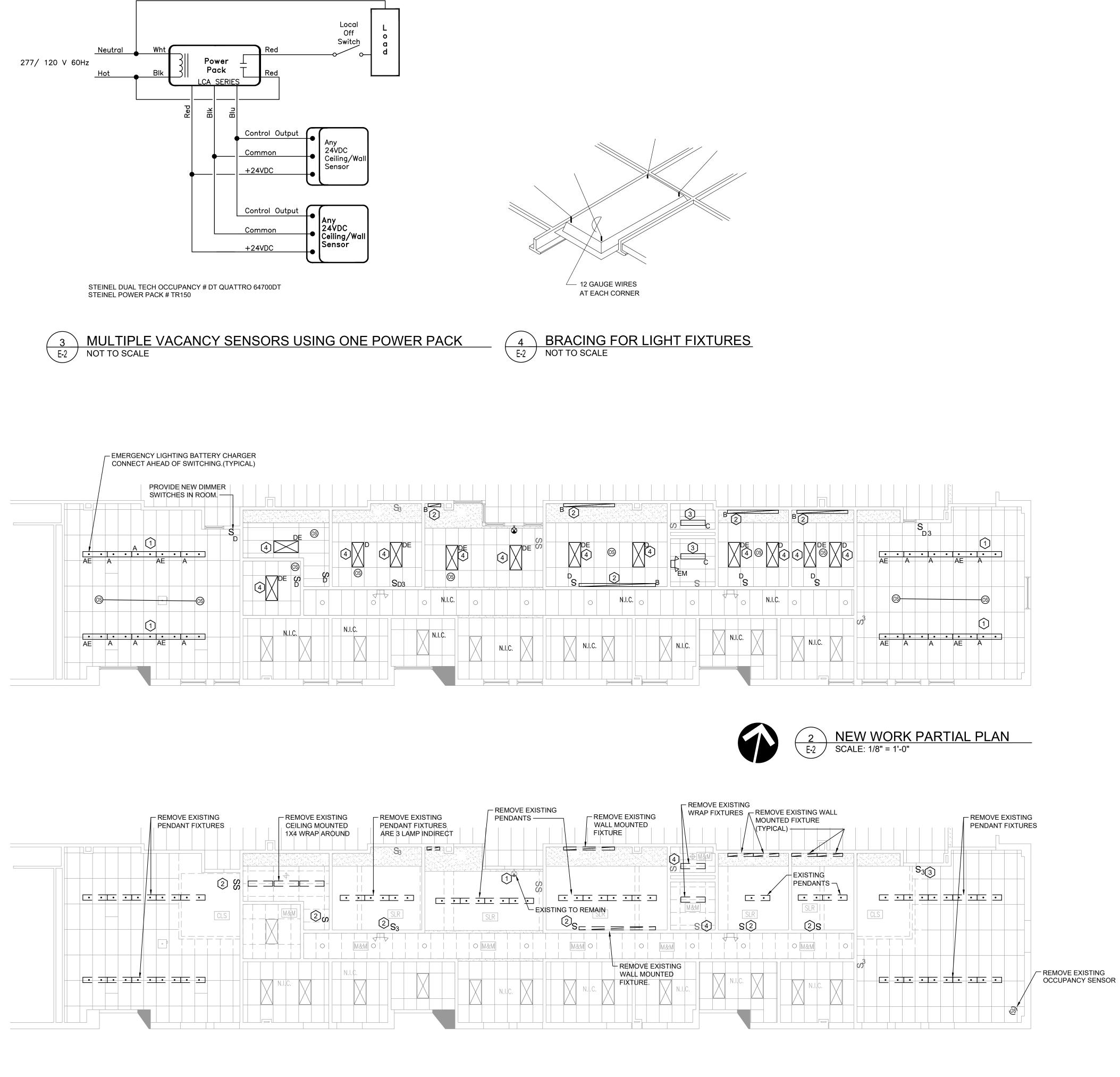
- (1) PROVIDE WEATHERPROOF JUNCTION BOX. REMOVE EXISTING BROKEN CONDUIT RUN. PROVIDE NEW RMC RUN WITH NEW CONDUCTORS TO EXISTING HVAC EQUIPMENT, MATCH EXISTING CONDUCTOR AND CONDUIT SIZES. PROVIDE LFMC TO CONNECT TO EQUIPMENT. NEW RUN SHALL REDUCE TRIPPING HAZARD. TEST HVAC EQUIPMENT FOR CORRECT ROTATION AND OPERATION. COORDINATE WITH MAINTENANCE DEPARTMENT AND MECHANICAL CONTRACTOR.
- (2) PROVIDE POWER TO NEW CONDENSER UNIT FROM EXISTING DISCONNECT SWITCH. PROVIDE NEW CONDUCTORS AND RACEWAY IF EXISTING CONDUCTORS ARE TOO SHORT OR NOT ELECTRICALLY SAFE TO BE REINSTALLED.
- (3) ELECTRICAL CONTRACTOR TO ENSURE EXISTING OVERCURRENT PROTECTION DEVICE IS RATED AT 15 AMPS. IF NOT REPLACE FUSES IN DISCONNECT SWITCH WITH DUAL ELEMENT LOW PEAK 15A FUSES. OR PROTECT AT SOURCE WITH NEW 15A TYPE HACR CIRCUIT BREAKER.
- (4) CONNECT NEW EXHAUST FANS TO THE EXISTING BRANCH CIRCUIT.
- 5 ELECTRICALLY RECONNECT THE EXISTING EXHAUST FAN TO THE EXISTING BRANCH CIRCUIT. CONFIRM ROTATION WITH MECHANICAL CONTRACTOR.

DEMOLITION DRAWING NOTES:

- (1) EXISTING BROKEN END OF LIGHTNING PROTECTION SYSTEM. TERMINATE AND SUPPORT END WITH APPROVED CONNECTOR.
- (2) REMOVE EXISTING LIGHTNING PROTECTION CABLES AND AIR TERMINALS (TYPICAL).
- 3 DISCONNECT POWER FROM EXISTING EXHAUST FANS SO THAT NEW EXHAUST FANS CAN BE INSTALLED.
- (4) ELECTRICALLY DISCONNECT THE EXISTING CONDENSING UNIT. MAKE READY FOR REPLACEMENT CONDENSING UNIT. VERIFY EXISTING CONDUCTORS ARE ELECTRICALLY SAFE TO BE REUSED.
- 5 ELECTRICALLY DISCONNECT THE EXITING EXHAUST FAN SO THAT A NEW CURB CAN BE INSTALLED BY OTHERS.

- EXISTING TO REMAIN







DEMOLITION PARTIAL PLAN SCALE: 1/8" = 1'-0" E-2

GENERAL NOTES:

- 1. PROVIDE NEW EMERGENCY LIGHT FIXTURES.CONNECT NEW EMERGENCY LIGHT FIXTURES AHEAD OF LOCAL LIGHTING CIRCUIT CONTROLS.
- 2. PROVIDE NEW DUAL TECHNOLOGY OCCUPANCY SENSORS. CONNECT NEW SENSORS AHEAD OF LOCAL CONTROLS. INTERFACE EXISTING SWITCHING FOR VACANCY SENSOR CONTROL. ALL LIGHTS IN THE ROOM SHALL BE CONTROLLED BY VACANCY SENSORS. SEE VACANCY DETAIL THIS SHEET.
- 3. VERIFY EXISTING LIGHTING CIRCUIT VOLTAGE BEFORE PURCHASING ELECTRICAL DEVICES.
- 4. RE-USE EXISTING ROOM SWITCHES. OR PROVIDE NEW AS INDICATED. SWITCHES SHALL BE LOCATED ON THE WALL WITHIN 12" OF THE DOOR STRIKE. MAINTAIN STANDARD SWITCH HEIGHT. PROVIDE NEW COMPATIBLE DIMMER SWITCHES AS SHOWN.
- 5. MOUNT FIXTURES AS SHOWN. SEE DETAIL #4 SHOWN ON THIS SHEET.

DRAWING NOTES:

- (1) MOUNT NEW PENDANT FIXTURES TO GRID CEILING. RE-CONNECT NEW LED INDIRECT/ DIRECT PENDANT LIGHT FIXTURES IN THE SAME LOCATIONS, RECONNECT LIGHT FIXTURES TO EXISTING LIGHTING CIRCUIT AND OCCUPANCY SENSOR CONTROLS. PROVIDE NEW VACANCY SENSOR DEVICES AND ADJUST FOR COVERAGE. SEE DETAIL # 3 ABOVE. PROVIDE NEW COMPATIBLE DIMMER SWITCH.
- (2) MOUNT NEW SURFACE LIGHT FIXTURES. RE-CONNECT TO THE EXISTING LIGHTING CIRCUIT AND CONTROLS VIA NEW DUAL TECHNOLOGY VACANCY SENSOR.
- (3) MOUNT NEW LED 1'X4' WRAP AROUND FIXTURES AND RE-CONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS. REPLACE EXISTING SWITCH WITH DUAL TECH OCCUPANCY TYPE SWITCH.
- (4) GRID MOUNT NEW 2'x4' LED FIXTURES. RE-CONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS VIA NEW DUAL TECH OCCUPANCY SENSOR AND ROOM SWITCH. PROVIDE NEW COMPATIBLE DIMMER SWITCH TO REPLACE EXISTING SWITCH.

DEMOLITION GENERAL NOTES:

- 1. IN EACH ROOM IDENTIFY THE EXISTING CIRCUIT THAT PROVIDES POWER TO THE EXISTING LIGHTING CIRCUIT.
- 2. REMOVE THE EXISTING LIGHT FIXTURES AND DISCARD ACCORDING TO STATE AND TOWN REQUIREMENTS.
- 3. RELOCATE EXISTING LIGHTING CIRCUIT CONDUCTORS AND JUNCTION BOXES TO AN ACCESSIBLE AREA ABOVE THE NEW CEILING GRID. NEW LIGHTS TO RE-CONNECT TO THE EXISTING LIGHTING CIRCUIT AND SWITCHING DEVICES.

DRAWING NOTES:

- 1 REMOVE THE EXIT SIGN DURING THE DAY AND REINSTALL WHEN DEMOLITION IS COMPLETED ABOVE THE EXIT SIGN.
- (2) REPLACE EXISTING SWITCH WITH NEW DIMMER SWITCH.
- (3) REPLACE EXISTING SWITCH WITH A NEW 3WAY DIMMER SWITCH.
- (4) REPLACE EXISTING SWITCH WITH A NEW OCCUPANCY SENSOR SWITCH.

| MARK | DATE | ONS & | CREVISIONS | ON | | |
|--|--------|-------|-----------------------------|---|--|--|
| | 4/3/20 | BIDDI | NG RELEASE | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| REROOFING AND RELATED WORK | | AKEAF | VILLIAM H. HALL HIGH SCHOOL | 975 NORTH MAIN STREET, WEST HARTFORD, CONNECTICUT | | |
| JACUNSKI HUMES JACUNSKI HUMES ARCHITTECTS, LLC 15 MASSIRIO DRIVE SUITE 101 BERLIN, CT 06037 TEL 860-828-9221 | | | | | | |
| ELECTRICAL LIGHTING PART PLANSPROJ. NO.JH1905 | | | | | | |
| PROJ. N | | 1905 | DRAWING NO | | | |
| PROJ. N SCALE | | | | - | | |
| SCALE DATE | JH | oted | drawing no | - | | |

ELECTRICAL SPECIFICATIONS:

GENERAL:

THE ENTIRE ELECTRICAL SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE CURRENT CONNECTICUT STATE BUILDING CODE INCLUDING:

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

THE CONTRACTOR SHALL FURNISH ALL MATERIALS, EQUIPMENT AND LABOR TO COMPLETE ELECTRICAL SYSTEMS AS SHOWN ON THE PLANS AND AS SPECIFIED HEREIN.

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

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

PERMITS AND FEES:

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

WIRING AND RACEWAY

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

RACEWAY INSTALLATION:

- 1. IN ALL ARCHITECTURALLY FINISHED SPACES, CONDUITS AND CABLES SHALL BE RUN CONCEALED IN HUNG OR FURRED CEILINGS, SLABS, MASONRY, AND PARTITIONS UNLESS OTHERWISE INDICATED. SAW CUTTING AND FINISHED PATCHING SHALL BE REQUIRED IN EXISTING SLABS AND MASONRY WALLS. IN UNFINISHED SPACES, RACEWAYS MAY BE RUN EXPOSED.
- 2. UNLESS OTHERWISE INDICATED, EXACT ROUTING OF RACEWAYS SHALL BE DETERMINED BY THE CONTRACTOR TO SUIT THE PROJECT REQUIREMENTS AND FIELD CONDITIONS.
- 3. MINIMUM CONDUIT SIZE SHALL BE 3/4" I.D.
- A. IN CONCRETE RIGID METAL CONDUIT
- B. UNDERGROUND RIGID NONMETALLIC CONDUIT
- C. EXPOSED AND CONCEALED ELECTRICAL METALLIC TUBING

WIRING INSTALLATION:

| 30 AMPERE CIRCUIT: | No. 10 AW |
|--------------------|-----------|
| 40 AMPERE CIRCUIT: | No. 8 AWG |
| 50 AMPERE CIRCUIT: | No. 6 AWG |
| 60 AMPERE CIRCUIT: | No. 6 AWG |

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

| | CIRCUIT | НО |
|--------------|-----------|-----|
| LENGTH | WIRE SIZE | WI |
| 0' TO 50' | #12 | #12 |
| 51' TO 100' | #12 | #10 |
| 101' TO 200' | #10 | #8 |

GREATER THAN 200' - REQUEST DIRECTION FROM ARCHITECT/ENGINEER CONDUCTORS IN CONDUIT.

FOLLOWS:

| | CIRCUIT HO |
|--------------|-------------|
| LENGTH | WIRE SIZE W |
| 0' TO 100' | #12 |
| 100' TO 200' | #12 |

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

- AND SO APPROVED BY THE ARCHITECT.
- 3. WIRING ABOVE ACCESSIBLE CEILINGS AND IN STUDDED PARTITIONS MAY BE TYPE MC CABLE 4. WHERE GREATER THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE INSTALLED IN ANY ONE CONDUIT OR CABLE, CONDUCTORS MUST BE DERATED AND SIZES INCREASED, IF NEEDED, TO ACCOMMODATE CONDUCTOR DERATING AS REQUIRED BY NEC ARTICLE 310, NOTE 8(A) OF AMPACITY TABLES FOR 0-2000 VOLT CONDUCTORS.
- 5. CONDUCTORS SHALL BE COMPLETELY INSTALLED AND CONNECTED. PROVIDE ALL TERMINALS, LUGS, AND CONNECTORS TO SUIT THE APPLICATION, AND IN COMPLIANCE WITH EQUIPMENT MANUFACTURERS' RECOMMENDATIONS.
- 6. BRANCH CIRCUIT WIRING FOR LIGHTING AND OTHER SINGLE PHASE APPLICATIONS SHALL BE MULTI-WIRE, UTILIZING COMMON NEUTRALS, EXCEPT COMPUTER AND WORKSTATION CIRCUITS AND DIMMER CIRCUITS SHALL HAVE SEPARATE NEUTRALS, AND AS OTHERWISE INDICATED. 7. UNDER NO CIRCUMSTANCES SHALL ANY SWITCH OR CIRCUIT BREAKER BREAK A NEUTRAL
- CONDITIONS:

GROUNDING INSTALLATION:

- 1. PROVIDE ALL ELECTRICAL GROUNDING TO CONFORM TO ARTICLE 250 OF THE NEC. 2. EQUIPMENT GROUNDING:
- A. INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL CONDUIT RUNS CONTAINING SECTIONS OF FLEXIBLE CONDUIT UNLESS OTHERWISE NOTED. B. INCLUDE AN INSULATED GROUND CONDUCTOR IN ALL BRANCH CIRCUIT RACEWAYS OR CABLES
- UNLESS OTHERWISE NOTED.
- 3. TELECOMMUNICATIONS CLOSET GROUNDING A. PROVIDE A #4 AWG GROUND CONDUCTOR RISER IN 1" EMT CONDUIT TO EACH
- ELECTRODE SYSTEM.

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

- NG

DMERUN CONDUIT SIZE

- IRE SIZE (8 WIRES/CONDUIT) 3/4" 10 3⁄4″
- NOTE: PROVIDE DERATING PER CODE WHEN INSTALLING MORE THAN 3 CURRENT CARRYING
- B. HOMERUNS AND BRANCH CIRCUIT WIRING FOR 277 VOLT, 20 AMPERE CIRCUITS SHALL BE AS

OMERUN CONDUIT SIZE

- /IRE SIZE (8 WIRES/CONDUIT) #12 3⁄4″

2. DO NOT USE WIRE SMALLER THAN No. 14 AWG FOR CONTROL CIRCUITS UNLESS OTHERWISE RECOMMENDED BY THE EQUIPMENT OR SYSTEM MANUFACTURER ON WIRING SHOP DRAWINGS,

8. THE CIRCUIT NUMBERS INDICATED ON THE DRAWINGS ARE INTENDED AS A GUIDE FOR PROPER CONNECTION OF CIRCUITS TO PANELS, HOWEVER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT THE FINAL CIRCUITING WORK FULFILLS THE FOLLOWING

A. LOADS ON PANEL BUSSES SHALL BE PHASE-BALANCED AS EVENLY AS POSSIBLE.

TELECOMMUNICATIONS CLOSET GROUNDING BUSSBAR (TGB) FROM THE

TELECOMMUNICATIONS MAIN GROUNDING BUSBAR (TMGB), AND TO MAIN SERVICE GROUNDING

B. CONNECT THE GROUND RISER TO TMGB AND TGB'S PER TIA/EIA STANDARD 607 - 1994 4. GROUND EACH TELECOMMUNICATIONS, FIRE ALARM, SECURITY, AND BMS SYSTEM EQUIPMENT AND CONTROL PANEL WITHIN EACH TELECOMMUNICATIONS ROOM/CLOSET TO THE ASSOCIATED CLOSET TMGB OR TGB WITH A #4 AWG CONDUCTOR PER TIA/EIA STANDARD 607 - 1994

RACEWAYS FOR TELECOMMUNICATION SYSTEMS:

- 1. PROVIDE EMPTY CONDUIT SYSTEMS FOR TELECOMMUNICATION WORK, COMPLETE WITH PULL BOXES, OUTLET BOXES, AND CONDUIT WITH PULLSTRING AS INDICATED ON THE DRAWINGS. 2. PROVIDE MINIMUM INSIDE BENDING RADIUS OF 10 TIMES CONDUIT INSIDE DIAMETER FOR
- TELECOMMUNICATIONS RACEWAYS. 3. WHEN COMPLETED THE CONDUIT SYSTEMS SHALL BE READY FOR INSTALLATION OF WIRING AND EQUIPMENT.
- 4. FROM EACH OUTLET PROVIDE A 1" EMPTY EMT CONDUIT ROUTED INTO THE CEILING CAVITY OR TO THE CLOSEST TELECOMMUNICATIONS CLOSET. PROVIDE A DRAG LINE IN EACH RUN AND TERMINATE IN A BUSHED ELBOW.
- SWITCHES AND RECEPTACLES:
- 1. LIGHT SWITCHES 20 AMP, 120V PASS & SEYMOUR #PS20AC11
- 2. DUPLEX RECEPTACLES 20 AMP, 120V PASS & SEYMOUR #PT5362LI
- 3. SPECIAL PURPOSE RECEPTACLES AS SPECIFIED AND SHOWN ON THE DRAWINGS OR AS REQUIRED TO MATCH EQUIPMENT SERVED.
- 4. PLATES PASS & SEYMOUR TP SERIES
- 5. WIRING DEVICES AS SPECIFIED ARE BASED ON PASS AND SEYMOUR CATALOG NUMBERS. DEVICES AS MANUFACTURED BY LEVITON OR HUBBEL WILL BE CONSIDERED, IF THEY ARE OF THE SAME TYPE AND QUALITY.
- 6. ALL DEVICES AND PLATES SHALL BE IVORY UNLESS OTHERWISE NOTED. COORDINATE ALL FINISHES WITH ARCHITECT PRIOR TO PURCHASE.
- LIGHTING FIXTURES:
- 1. PROVIDE FIXTURES AND LAMPS AS SHOWN AND SPECIFIED ON THE DRAWINGS.
- 2. ALL LED FIXTURES SHALL BE NEUTRAL WHITE LAMPS UNLESS SPECIFIED OTHERWISE.
- 3. ALL DRIVERS SHALL BE DLC CERTIFIED, ENERGY EFFICIENT, FULL LIGHT OUTPUT TYPES. 4. FLUORESCENT BALLASTS SHALL BE AS MANUFACTURED BY ADVANCE, UNIVERSAL OR MOTOROLA.

MECHANICAL EQUIPMENT WIRING:

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

EXAMINATION OF SITE:

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

FINAL INSPECTION AND TES

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

- COORDINATION DRAWINGS:

- SHOP DRAWINGS.

- DOCUMENTS
- SUBCONTRACTORS.

1. DEVELOP AND SUBMIT COORDINATION DRAWINGS AS OUTLINED.

A. SHEET METAL, PLUMBING AND FIRE PROTECTION SHOP DRAWINGS THAT HAVE BEEN 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" PRIOR TO BEING USED AS A BASIS FOR COORDINATION DRAWINGS.

B. AFTER SHEET METAL AND PIPING DRAWINGS HAVE BEEN REVISED PER ENGINEERS COMMENTS, REPRODUCIBLE COPIES SHALL BE SENT TO THE OTHER TRADES IN THE FOLLOWING SEQUENCE FOR THE INCLUSION OF THEIR WORK:

MECHANICAL SHEET METAL

• PLUMBING CONTRACTOR

ELECTRICAL WORK

MECHANICAL PIPING

2. AFTER ALL TRADES HAVE INCLUDED THEIR WORK ON THE COORDINATION DRAWING AND NOTED CONFLICTS, ALL TRADES SHALL MEET TO RESOLVE CONFLICTS AND AGREE TO ACCEPTABLE SOLUTIONS. EACH TRADE SHALL SIGN COORDINATION DRAWINGS. ITEMS NOT SHOWN ON COORDINATION DRAWING ARE RESPONSIBILITY OF OMITTING CONTRACTOR AND CONTRACTOR IS SUBJECT TO ADDITIONAL COST INCURRED BY OTHER TRADES.

3. THE ARCHITECT AND ENGINEER ARE NOT PART OF THE COORDINATION DRAWING PROCESS. THE ENGINEER WILL PROVIDE ASSISTANCE FOR NOTED CONFLICTS ONLY. 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 DUCTWORK SHOP DRAWINGS SHALL FOLLOW THE DESIGN INTENT OF THE CONTRACT

4. SUBMIT FINAL SIGNED COORDINATION DRAWING TO THE ENGINEER FOR REVIEW. ENGINEER WILL REVIEW COORDINATION DRAWINGS FOR GENERAL ARRANGEMENT AND FOR NOTED CONFLICTS ONLY. SPECIFIC INSTALLATION REQUIREMENTS WILL BE REVIEWED ONLY IN INDIVIDUAL TRADE

5. ANY WORK FABRICATED OR INSTALLED PRIOR TO SIGN OFF BY ALL TRADES WHICH IS DEEMED TO BE IN CONFLICT WITH COORDINATION DRAWINGS SHALL BE REMOVED AND REINSTALLED IN CONFORMANCE WITH COORDINATION DRAWINGS.

6. EACH CONTRACTOR (MENTIONED ABOVE) IS RESPONSIBLE FOR THE COORDINATION OF HIS

7. THE OVERALL COORDINATION OF THE COORDINATION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE ENGINEER IS NOT RESPONSIBLE FOR THE COORDINATION PROCESS. THE ENGINEER WILL RESPOND TO QUESTIONS THAT ARISE FROM THE COORDINATION PROCESS. DRAWINGS SUBMITTED WILL BE REVIEWED FOR CLEARLY IDENTIFIED CONFLICTS ONLY. SOLUTIONS TO THE CONFLICTS WILL NOT BEAR ADDITIONAL COST.

| MARK | SUBMISS: DATE 4/3/20 | | REVISIONS DESCRIPT ING RELEASE | | | | |
|-----------------------------------|--|---------------|--------------------------------------|---|--|--|--|
| | | | | | | | |
| REROOFING AND RELATED WORK | | AKEAF | WILLIAM H. HALL HIGH SCHOOL | 975 NORTH MAIN STREET, WEST HARTFORD, CONNECTICUT | | | |
| AR 15 M SUIT BERI TEL | JACUNSKI HUMES JACUNSKI HUMES ARCHITTECTS, LLC 15 MASSIRIO DRIVE SUITE 101 BERLIN, CT 06037 TEL 860-828-9221 FAX 860-828-9223 | | | | | | |
| ELECTRICAL SPECIFICATIONS | | | | | | | |
| PROJ. NO SCALE DATE | HL | 1905 loted | drawing n | _ | | | |