

THE RECORD OF THESE PLANS BY ANY OTHER MEANS OR BY ANY MEANS, IN ANY MANNER, IS PROHIBITED. THE RECORD OF THESE PLANS BY ANY OTHER MEANS OR BY ANY MEANS, IN ANY MANNER, IS PROHIBITED. THE RECORD OF THESE PLANS BY ANY OTHER MEANS OR BY ANY MEANS, IN ANY MANNER, IS PROHIBITED.

| DOOR & FRAME SCHEDULE | | | | | | | | | | |
|-----------------------|-------------------|--------|------|-------|-------|------|------|------|------|--|
| NO. | DOOR | | | | FRAME | | | | HDWR | |
| | WIDTH x HEIGHT | THK | MATL | TYPE | MATL | TYPE | HEAD | JAMB | | |
| 129D | 3'-0" x 7'-0" | 1 3/4" | WD. | FLUSH | HM | B | H-1 | J-1 | - | |
| 129E | (2) 2'-0" x 7'-0" | 1 3/4" | WD. | FLUSH | HM | B | H-2 | J-2 | - | |

| ROOM FINISH SCHEDULE | | | | | | | |
|----------------------|-------------|-------|-------------|--------|----------------------|--------------|----------------------------|
| NO. | ROOM NAME | WALLS | FLOOR | BASE | CEILING | | REMARKS |
| | | | | | FINISH | HEIGHT | |
| 129D | DRY STORAGE | PAINT | QUARTZ TILE | RUBBER | STUCCO (1/2 OF ROOM) | MATCH EXIST. | PAINT NEW & EXIST. CEILING |

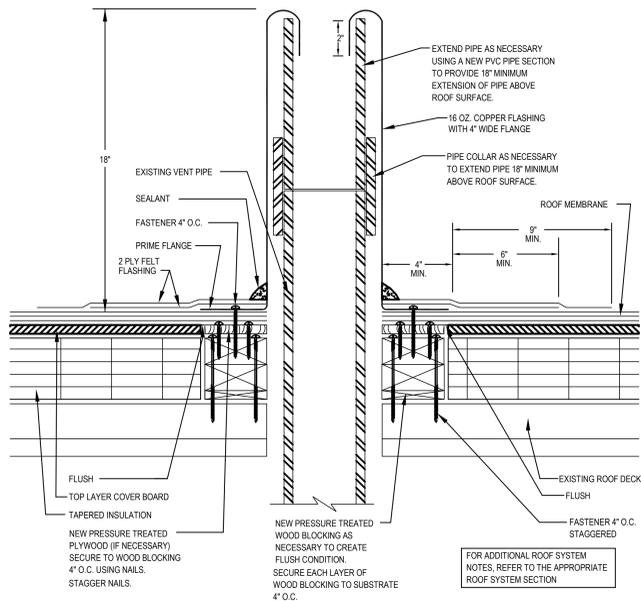
GENERAL NOTES

- VERIFY EXISTING CONDITIONS PRIOR TO START IF ALL DEMOLITION/ALTERATION WORK. NOTIFY ARCHITECT IMMEDIATELY OF ANY AND ALL AS-BUILT DISCREPANCIES.
- COORDINATE AND FIELD VERIFY ALL ITEMS DESIGNATED EXISTING TO REMAIN PRIOR TO COMMENCEMENT OF WORK.
- DO NOT CONSIDER DEMOLITION NOTATION (DASHED LINES) TO BE ALL INCLUSIVE. CONTRACTOR IS RESPONSIBLE TO INSPECT AND ASSESS THE AREA AND TO FULFILL THE INTENT OF THE WORK (AS INDICATED BY THE CONTRACT DOCUMENTS). CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS WITHIN THE CONTRACT LIMITS. FIELD CONDITION GENERATED DEVIATIONS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION.
- ALL AREAS AND PARTITIONS NOT DASHED OR NOTED FOR REMOVAL SHALL REMAIN INTACT. PATCH AND REPAIR EXISTING ADJACENT PARTITIONS AS REQUIRED AFTER DEMOLITION TO MATCH EXISTING OR IN ACCORDANCE WITH PROPOSED RENOVATIONS.
- PERFORM ALL PATCHING OF WALL CONSTRUCTION NECESSARY WHERE NEW DOORS ARE REQUIRED OR WHERE DOOR FRAMES ARE REPLACED.
- SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR COORDINATION AND ADDITIONAL INFORMATION RELATIVE DEMOLITION OF FLOORS, WALLS AND ANY OTHER DEMOLITION NOT SHOWN ON THIS PLAN TO INSTALL THE NEW WORK. THE SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SUCH WORK INCLUDING REPAIR AND PATCHING AS REQUIRED.

HARDWARE SCHEDULE

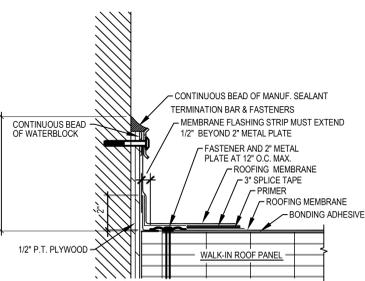
| HARDWARE SET # 01 DOOR 129D | |
|--|-------------|
| QTY DESCRIPTION | FINISH MFG |
| 3 HINGE CB168 4.5 X 4.5 X NRP | 652 STANLEY |
| 1 STOREROOM LOCKSET 93K7-D-14C-S3 X ABC X Mx8 | 628 BEST |
| 1 MOP PLATE 6" X 1" LDW .050 B4E X CSK | 630 BURNS |
| 1 KICK PLATE 8" X 2" LDW .050 B4E X CSK | 630 BURNS |
| 1 O/H CONCEALED STOP 4014 X HO (36" TO 48" DR) | 630 ABH |
| 3 SILENCERS 500 | GRAY BURNS |

| HARDWARE SET # 02 DOOR 129E | |
|---|------------|
| QTY DESCRIPTION | FINISH MFG |
| 2 CONTINUOUS HINGE MCK-25HD X LAR | 626 MC |
| 2 FLUSH BOLT FB01M | 626 SA |
| 1 DEADLOCK 21 9222 GMK | 630 MC |
| 2 PULL/PUSH BAR SET OP810 X LAR G-MTG N-MTG | 630 MC |
| 3 SILENCERS 500 | GRAY BURNS |



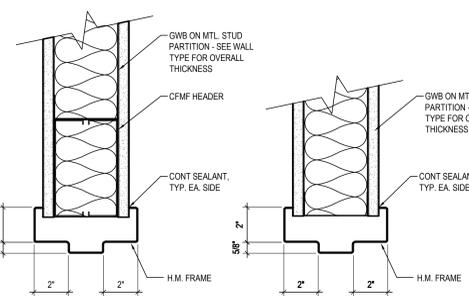
TYP. BUILT-UP ROOFING VENT PIPE DETAIL

SCALE: 3" = 1'-0"



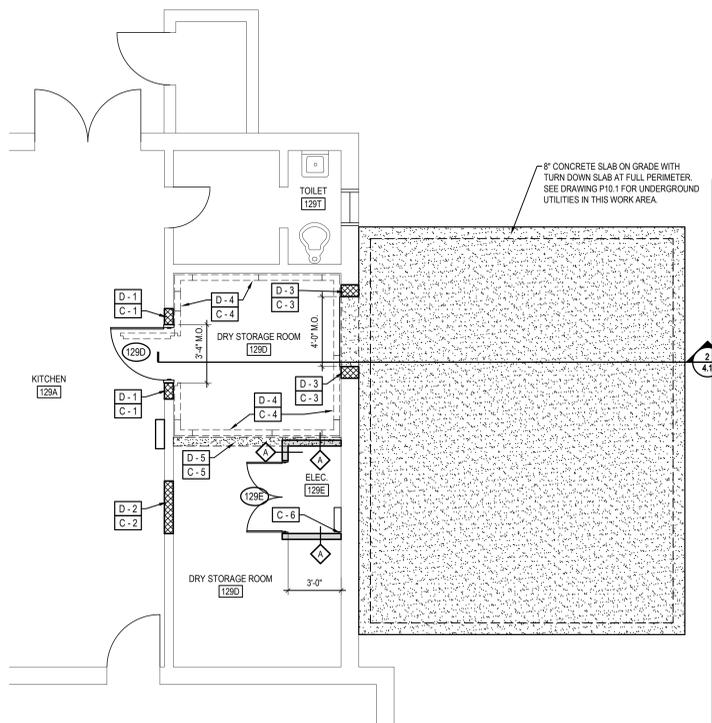
BASE FLASHING DETAIL

SCALE: 3" = 1'-0"



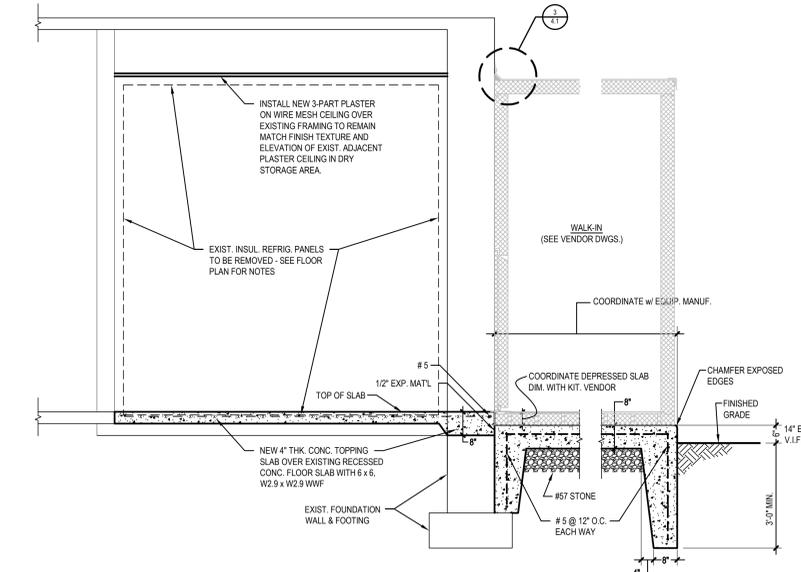
HEAD AND JAMB DETAILS

SCALE: 3" = 1'-0"



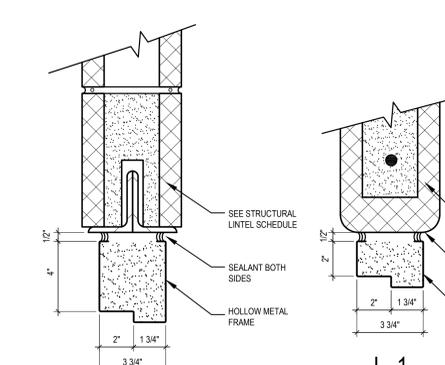
FLOOR PLAN

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



PARTIAL BUILDING SECTION

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



DEMOLITION KEY NOTES

- D-1 REMOVE EXISTING INSULATED WALK-IN DOOR AND STEEL FRAME FROM EXISTING MASONRY OPENING INCLUDING ALL HARDWARE AND FASTENERS
- D-2 REMOVE EXISTING H.M. DOOR FRAME, DOOR, HARDWARE AND FASTENERS
- D-3 PIN MASONRY ABOVE NEW OPENING LOCATION. PROVIDE TEMPORARY SHORING AS REQUIRED. CUT NEW MASONRY OPENING IN EXTERIOR BEARING WALL AS REQUIRED TO PROVIDE FINISHED OPENING SIZE SHOWN ON DRAWINGS (VERIFY SIZE AND LOCATION WITH KITCHEN EQUIP. MANUF.)
- D-4 REMOVE EXISTING INSULATED WALK-IN REFRIGERATOR PANELS FROM WALLS OF EXISTING ROOM. REMOVE RECESSED INSUL. FLOOR PANELS DOWN TO CONCRETE FLOOR SURFACE. REMOVE INSUL. PANELS FROM CEILING AND REMOVE EXISTING PLASTER CEILING (FRAMING TO REMAIN). REMOVE ALL ADHESIVES, FASTENERS AND HARDWARE ASSOCIATED WITH WALK-IN COOLER.
- D-5 REMOVE EXISTING 6\"/>

NOTE:

AT ALL DEMOLITION, RELOCATE UTILITIES AS REQUIRED PRIOR TO REMOVING BUILDING MATERIALS. (SEE MEP DRAWINGS).
 VERIFY ALL DIMENSIONS, PLAN CONFIGURATION AND BEARING WALL LOCATIONS AT THE SITE PRIOR TO STARTING DEMOLITION.
 PROVIDE ARCHITECT WITH A SHORING PLAN PRIOR TO CUTTING OPENINGS IN EXISTING BEARING WALLS.
 REMOVE ALL DEMOLISHED MATERIALS FROM THE SITE AT THE END OF EACH DAY.

CONSTRUCTION KEY NOTES

- C-1 INSTALL NEW 6\"/>

NOTE:

AT ALL MASONRY INFILLS, PROVIDE FLUSH SURFACE ALIGNMENT TO EXISTING ADJACENT SURFACES ON BOTH SIDES OF INFILL WALL.

CONCRETE/STEEL LINTEL SCHEDULE

| WIDTH OF OPENING | STEEL FOR EACH 4\"/> | | |
|------------------|------------------------|---------------------|--|
| UP TO 2'-11" | L 3 1/2 X 3 1/2 X 5/16 | (1) #4 TOP 4 BOTTOM | |
| 3'-0" TO 3'-11" | L 4 X 3 1/2 X 5/16 | (1) #4 TOP 4 BOTTOM | |
| 4'-0" TO 5'-11" | L 5 X 3 1/2 X 5/16 | (1) #4 TOP 4 BOTTOM | |
| 6'-0" TO 6'-11" | L 6 X 3 1/2 X 5/16 | (1) #5 TOP 4 BOTTOM | |

NOTES: 1) ALL CONCRETE LINTELS SHALL BE 4000 PSI CONCRETE AT 28 DAYS WITH GRADE 60 REINFORCING.
 2) ALL STEEL LINTELS SHALL BE ASTM A36.
 3) FILL C.M.U. VOIDS SOLID (2) COURSES BELOW LINTEL BEARING.
 4) ALL LINTELS SHALL HAVE 5\"/>

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STUDIO JAED
 ARCHITECTS ■ ENGINEERS ■ FACILITIES SOLUTIONS

CORPORATE HEADQUARTERS
 2500 WYOMING HILL ROAD, STE. 110
 BEAR, DE 19701
 P: (302) 832-1652 F: (302) 832-1423

E-Mail: info@studiojaed.com
 Website: www.studiojaed.com

| REVISIONS | |
|-------------|------|
| DESCRIPTION | DATE |
| | |

PROJECT: SEAFORD SCHOOL DISTRICT WALK-IN FREEZER REPLACEMENT
 SEAFORD CENTRAL ELEMENTARY SCHOOL
 1 DELAWARE PLACE SEAFORD, DE 19973

SHEET TITLE: ARCHITECTURAL PLAN

BID DOCUMENTS
 MAY 14, 2012

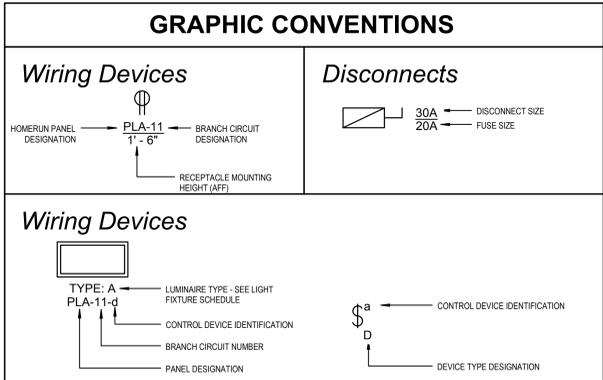
DRAWN: AM
 DISCIPLINE: A

CHKD/DISIGNER: AM/BMZ
 SHEET NO.: 4.1

PROJECT NO.: 12016

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| ELECTRICAL SYMBOLS LEGEND | |
|---------------------------|---|
| Power Devices | |
| | GENERAL PURPOSE DUPLEX RECEPTACLE - 20AMP, 125VOLTS, NEMAS-20R. |
| | GENERAL PURPOSE GFCI RECEPTACLE (DUPLEX OR QUADRUPLIX) - 20AMP, 125VOLTS, NEMAS-20R. |
| | JUNCTION BOX - FOR FUTURE ACCESS CONTROL HARDWARE |
| | FRACTIONAL HORSEPOWER MOTOR STARTER WITH OVERLOAD IN NEMA 1 ENCLOSURE |
| | FUSED DISCONNECT SWITCH-HEAVY DUTY, POLE WITH FUSE CLIPS SUITABLE FOR CLASS "R" FUSES, NEMA1 UNLESS NOTED. WP-WEATHER PROOF-NEMA3R ENCLOSURE, (NOMENCLATURE: 30A/20A = SWITCH SIZE/FUSE SIZE), 50 D CLASS 3115 OR EQUAL |
| Lighting Controls | |
| | WALL SWITCH - 20A, 120/277V, SINGLE POLE, HEAVY DUTY, TOGGLE TYPE |
| | WALL SWITCH (3-WAY) - 20A, 120/277V, SINGLE POLE, HEAVY DUTY, TOGGLE TYPE |



- | ELECTRICAL GENERAL NOTES | |
|--------------------------|--|
| 1. | PROVIDE ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, COORDINATION, ADDITIONAL DESIGN AND ALL INCIDENTALS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM AS DETAILED ON PLANS TO THE SATISFACTION OF THE ENGINEER AND THE OWNER. COORDINATE ALL WORK WITH THE ENGINEER BEFORE THE START OF WORK. |
| 2. | PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE SITE AND BE THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL MATERIAL, LABOR, AND ALL INCIDENTALS FOR A COMPLETE INSTALLATION WHETHER SPECIFICALLY INDICATED OR NOT. ALL ERRORS, DISCREPANCIES AND MISSED ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS BY THE CONTRACTOR. THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE. NO EXTRA COST WILL BE ALLOWED FOR ANY DISCREPANCY WHICH COULD HAVE BEEN NOTICED AT THE SITE VISIT BY THE CONTRACTOR. |
| 3. | PERFORM WORK AS REQUIRED BY APPLICABLE CODES, REGULATIONS, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAWFUL JURISDICTION. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE. |
| 4. | MATERIAL AND EQUIPMENT SHALL BE UL, NEMA, AND/ OR IEEE, ADA & CMB APPROVED FOR INTENDED PURPOSE. MATERIAL AND INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND LOCAL ELECTRICAL CODE. |
| 5. | GIVE NOTICES, FILE PLANS, OBTAIN PERMITS, AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION. |
| 6. | MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET MUST BE COMPLETE AND CURRENT AND AVAILABLE FOR INSPECTION WHEN REQUISITIONS FOR PAYMENT ARE SUBMITTED. |
| 7. | GUARANTEE WORK IN WRITING PER SPECIFICATIONS. REPAIR OR REPLACE DEFECTIVE MATERIALS OR INSTALLATION AT NO COST TO OWNER DURING THE GUARANTEE PERIOD. CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE AT NO COST TO OWNER. SUBMIT GUARANTEE TO OWNER BEFORE FINAL PAYMENT. |
| 8. | COORDINATE ALL ELECTRICAL ITEMS WITH EXISTING FIELD CONDITIONS. LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE MINOR ADJUSTMENT IN THE FIELD TO SATISFY THE DESIGN INTENT. |
| 9. | DAMAGE TO EXISTING FACILITIES AND EQUIPMENT SHALL BE REPAIRED OR REPLACED IMMEDIATELY BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. |
| 10. | THE LOCATIONS ON THESE PLANS ARE APPROXIMATE AND REQUIRE COORDINATION WITH ALL OTHER TRADES AND VERIFICATION OF EXISTING CONDITIONS. ROUTING OF CONDUIT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO SHOW ALL REQUIRED OFFSETS AND DETAILS. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL EXISTING ASSOCIATED EQUIPMENT AND CONDITIONS. COORDINATE THE LOCATION OF ALL EQUIPMENT WITH THE ENGINEER AND THE OWNER. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER TRADE'S DRAWINGS AND SPECIFICATIONS AND COORDINATING WITH ALL OTHER TRADES DURING BIDDING AND CONSTRUCTION. |
| 11. | CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CONTINUITY OF ALL POWER, CONTROL, FIRE ALARM, SECURITY SYSTEMS, AND COMMUNICATIONS FUNCTIONS TO ALL AREAS AFFECTED BY DEMOLITION AND/OR NEW CONSTRUCTION. |
| 12. | REPAIR AND PATCH ANY DISTURBED AREAS TO MATCH ADJACENT CONSTRUCTION. |
| 13. | DISCONNECT AND MAKE SAFE ANY EQUIPMENT TO BE REMOVED BY OTHERS. COORDINATE REMOVAL OF EQUIPMENT WITH OTHER TRADES PRIOR TO DEMOLITION. |
| 14. | IN ANY AREA REQUIRING THE PERFORMANCE OF ANY TRADE'S WORK, THIS CONTRACTOR SHALL CAREFULLY REMOVE AND STORE ANY OR ALL ELECTRICAL ITEMS IN PATH OF WORK, REINSTALLING AND RECONNECTING SAME AS REQUIRED, IN ACCORDANCE WITH THE PLANS AND/OR AS DIRECTED AFTER COMPLETION OF OTHER TRADE'S WORK IN THAT AREA. |
| 15. | PRIOR TO THE START OF DEMOLITION, CONTRACTOR SHALL FIELD VERIFY ALL BRANCH CIRCUITS AND MAINTAIN THOSE CIRCUITS THAT EXTEND OUTSIDE THE SCOPE OF WORK. |
| 16. | AFTER RENOVATING EXISTING ELECTRICAL WORK, THE CONTRACTOR SHALL ENSURE THAT ALL REMAINING AND NEW EQUIPMENT WILL OPERATE PROPERLY, INCLUDING BUT NOT LIMITED TO BACKFEEDING OF EXISTING POWER AND LIGHTING CIRCUITS. REFER TO SINGLE LINE DIAGRAM. |
| 17. | ALL ELECTRICAL WORK INDICATED TO REMAIN SHALL BE SUITABLY PROTECTED TO PREVENT ANY DAMAGE. |
| 18. | WHERE ELECTRICAL SYSTEMS PASS THROUGH RENOVATED AREAS TO SERVE OTHER PORTIONS OF THE PREMISES, SYSTEMS SHALL BE SUITABLY PROTECTED TO PREVENT DAMAGE OR RELOCATED AND THE SYSTEMS RESTORED TO NORMAL OPERATION. ANY OUTAGES IN SYSTEMS SHALL BE COORDINATED WITH OWNER. RESTORE POWER TO EXISTING TO REMAIN EQUIPMENT IF INTERRUPTED BY DEMOLISHED CIRCUITS IN THE AREA. |
| 19. | CONTRACTOR SHALL SUBMIT FOR REVIEW, SHOP DRAWINGS FOR ALL EQUIPMENT AND MATERIALS USED ON THE PROJECT. SUBMITTALS SHALL BE REVIEWED BY THE ENGINEER BEFORE PURCHASE OF MATERIALS. |
| 20. | ALL WIRING SHALL BE COPPER, 600V, 75°/90° RATED, FLAME RETARDANT, HEAT AND MOISTURE RESISTANT. |
| 21. | PERMANENTLY LABEL ALL NEW ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, DEVICE DESIGNATION AND SUPPLY CIRCUIT DESIGNATION. UPDATE OR REPLACE PANEL DIRECTORIES TO INCLUDE NEW CIRCUIT INFORMATION RESULTING FROM THIS PROJECT. |
| 22. | PROVIDE TEMPORARY POWER AND LIGHTING FOR ALL TRADES AS REQUIRED TO COMPLETE THE PROJECT. ALL TEMPORARY AND INTERIM EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS INCLUDING, BUT NOT LIMITED TO NFPA 110 AND NFPA 70. |
| 23. | REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION THAT IS NOT SHOWN ON THE DRAWINGS. |
| 24. | OPENINGS IN EXISTING CONCRETE WALLS AND FLOORS REQUIRED FOR CONDUIT INSTALLATION SHALL BE CORE DRILLED. MAXIMUM CORE DRILL SIZE SHALL BE 5" IN DIAMETER. CORE DRILL LOCATIONS SHALL BE SPACED A MINIMUM OF 6" FROM EACH OTHER MEASURED FROM THE OUTSIDE EDGE OF THE CORE DRILL. ALL CORE DRILL OPENINGS SHALL BE PROPERLY SEALED ACCORDING TO THEIR LOCATION AND APPLICATION. |
| 25. | ALL OUTAGES SHALL BE KEPT TO A MINIMUM. ALL WORK THAT REQUIRES A SUSTAINED EQUIPMENT OUTAGE SHALL BE PERFORMED CONTINUOUSLY AROUND THE CLOCK UNTIL WORK IS COMPLETED UNLESS NOTED OTHERWISE. COORDINATE OUTAGES WITH OWNER REPRESENTATIVE. |
| 26. | PROVIDE FOR EACH BRANCH CIRCUIT AND FEEDER CIRCUIT A DEDICATED EQUIPMENT GROUND WIRE. FOR SINGLE PHASE BRANCH CIRCUITS OF 120 V/1PH OR 277V/1 PH PROVIDE DEDICATED HOT, DEDICATED NEUTRAL AND DEDICATED EQUIPMENT GROUND WIRES. SHARING OF NEUTRAL OR EQUIPMENT GROUND WIRES IS NOT PERMITTED. WIRING TO ALL HVAC EQUIPMENT OR OTHER TRADE EQUIPMENT SHALL BE IN CONDUIT. ALL EQUIPMENT AND FEEDER WIRING IN BOILER ROOM/ELECTRICAL ROOM SHALL BE IN RIGID CONDUIT. USE OF MC CABLE IS LIMITED TO BRANCH CIRCUIT WIRING ABOVE RECESSED CEILING OR CONCEALED IN WALL. WIRING TO OUTLETS ON TABLE SHALL BE PROVIDED IN EITHER EMT CONDUIT OR FLEXIBLE METAL CONDUIT. |
| 27. | PROVIDE IDENTIFICATION LABELS FOR ALL BRANCH CIRCUITS AND FEEDERS CIRCUITS AT JUNCTION BOXES, PANELBOARDS, TROUGHS, AND SPLICE BOXES. |
| 28. | PROVIDE UNSPLICED FEEDERS FROM PANELBOARD OR SWITCHBOARD TO ALL EQUIPMENT. SPLICING IS PERMITTED FOR SINGLE PHASE CIRCUITS FOR LIGHTING AND OUTLETS ONLY. |
| 29. | DISCONNECTS FOR ALL OUTDOOR EQUIPMENT SHALL BE INSTALLED IN WATERPROOF NEMA-3R ENCLOSURE. |

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 CORPORATE HEADQUARTERS
 2500 WRANGLE HILL ROAD, STE. 110
 BEAR, DE 19701
 P: (302) 832-1652 F: (301) 832-1423
 E-Mail: info@studiojaed.com
 Website: www.studiojaed.com

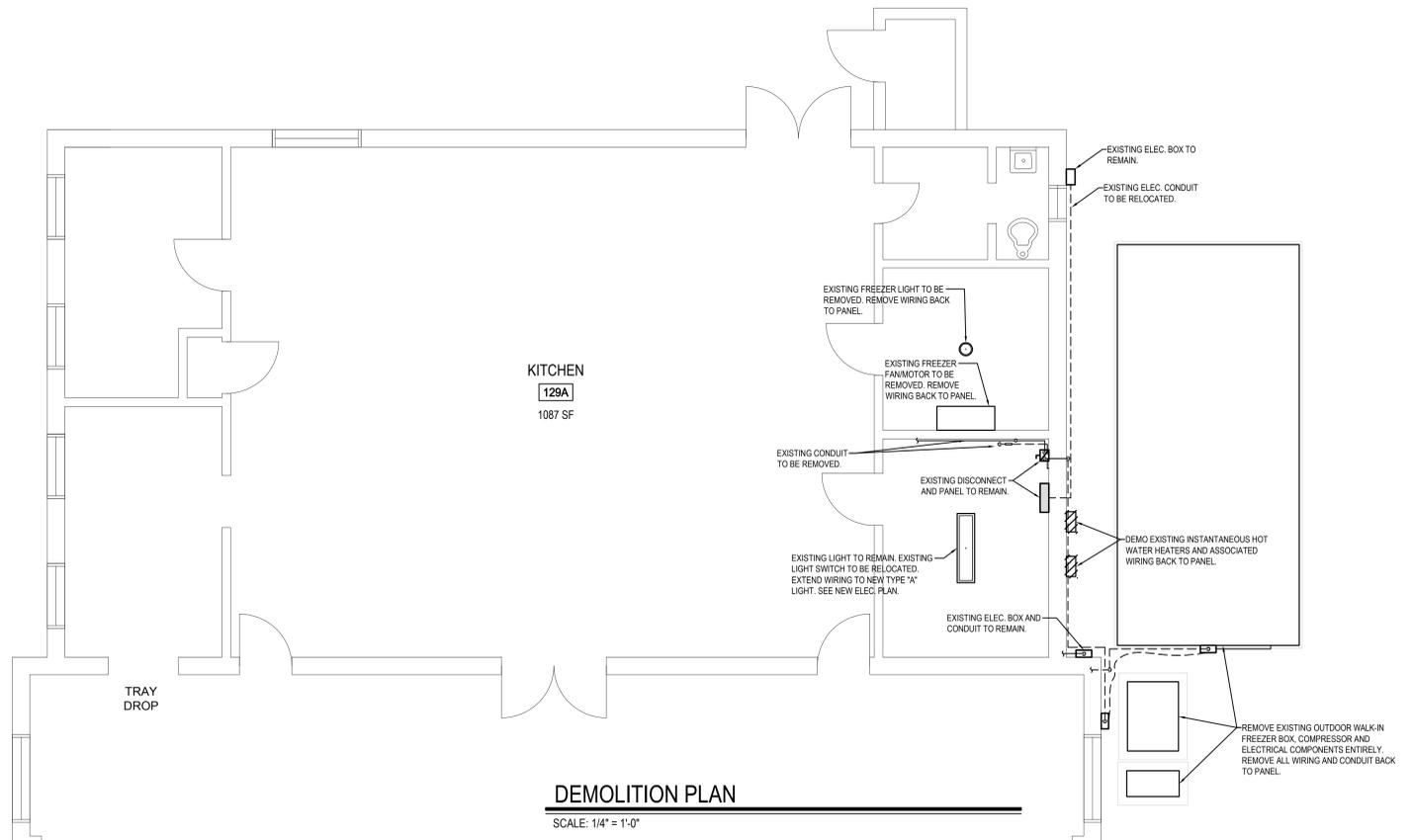
| REVISIONS | |
|-----------|------------------|
| △ | DESCRIPTION DATE |

PROJECT
 SHEET TITLE
SEAFORD SCHOOL DISTRICT
 WALK-IN FREEZER REPLACEMENT
SEAFORD CENTRAL ELEMENTARY SCHOOL
 1 DELAWARE PLACE
 SEAFORD, DE 19973

ELECTRICAL COVER SHEET

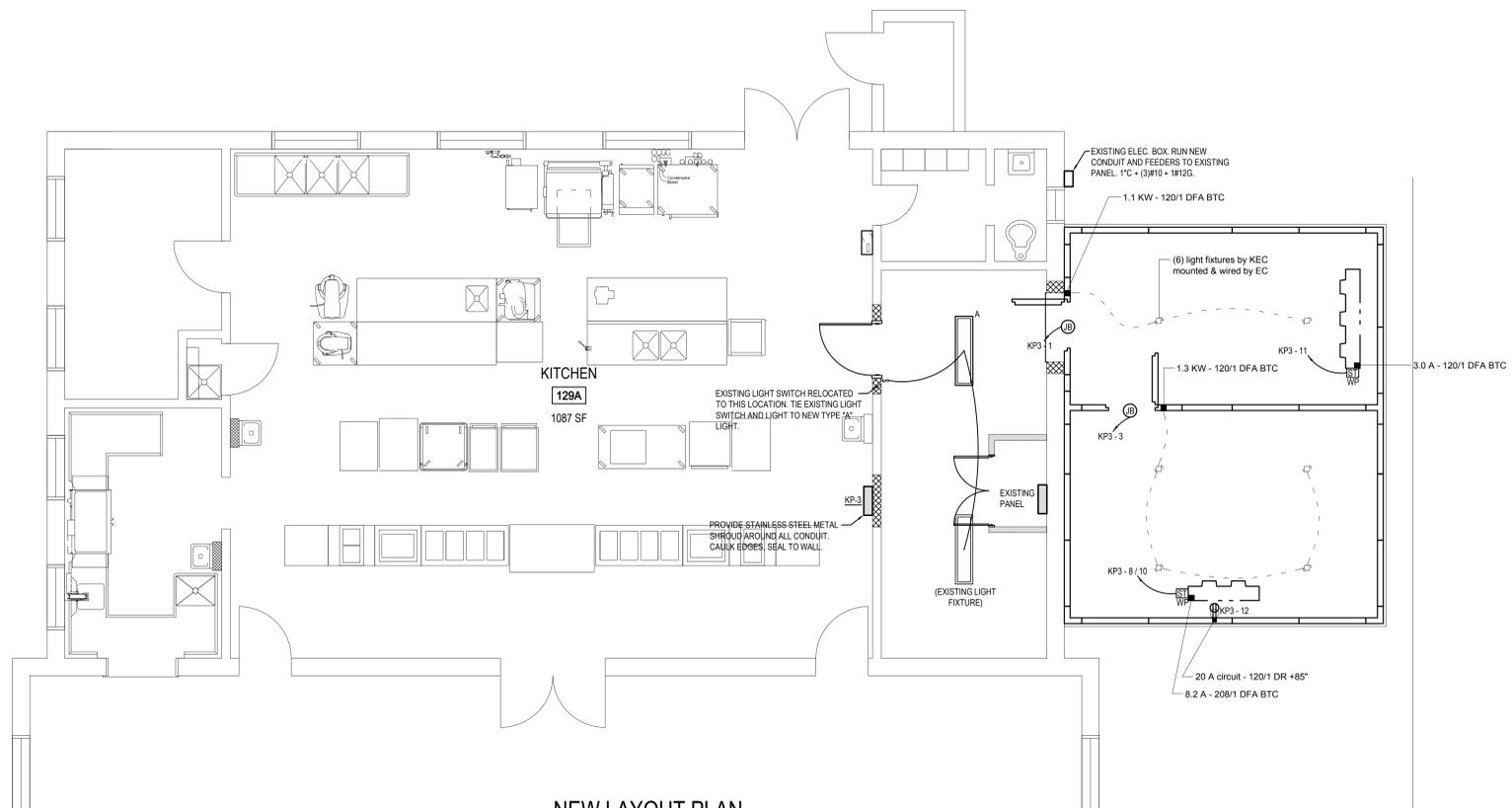
BID DOCUMENTS
 MAY 14, 2012
 DRAWN: JRB
 CHK'D/DESIGNER: PP
 DISCIPLINE: E
 SHEET NO.: 9.0
 PROJECT NO.: 12016

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DEMOLITION PLAN

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



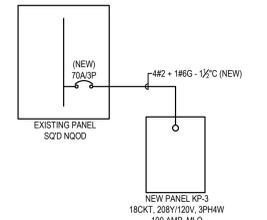
NEW LAYOUT PLAN

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

| LIGHTING FIXTURE SCHEDULE | | | | | | |
|---------------------------|-----------|-----------|-------|--------------------------------------|---|--|
| TYPE | LAMPS | VOLTAGE | MOUNT | FIXTURE DESCRIPTION | MANUFACTURER/CATALOG NUMBER | REMARKS |
| A | (2) 28WTS | 120 / 277 | WALL | CORRIDOR LIGHT WITH WRAP AROUND LENS | COLUMBIA LIGHTING, RO-4-228-EPU OR APPROVED EQUAL | CONNECT TO EXISTING LIGHT FIXTURE BRANCH CIRCUIT, EXTEND WIRING AS REQUIRED. |

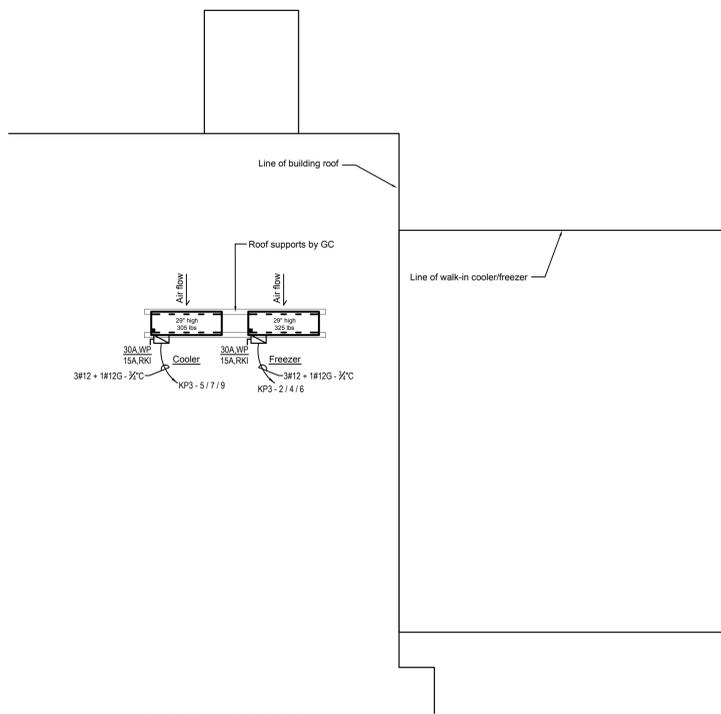
| PANEL: KP3 | | LOCATION: KITCHEN | | VOLTAGE: 208Y/120V, 3PH4W | | | | |
|--------------|--------|-------------------|--------|----------------------------------|--------|--------|--------|-----------|
| BUS: 100 AMP | | MAIN: 100 AMP-MLO | | ENCLOSURE: NEMA1 | | | | |
| | | | | A.I.C. RATINGS: 10,000 FULL | | | | |
| WIRE SIZE | ØA KVA | ØB KVA | ØC KVA | DESCRIPTION | ØA KVA | ØB KVA | ØC KVA | WIRE SIZE |
| 12 | 1.1 | - | - | WALK-IN COOLER LIGHTS AND ALARM | 1 | 20 | 11 | 12 |
| 12 | - | 1.3 | - | WALK-IN FREEZER LIGHTS AND ALARM | 1 | 20 | 3 | 12 |
| 12 | - | - | 1.06 | COOLER CONDENSING UNIT | 3 | 20 | 5 | 12 |
| 12 | 1.06 | - | - | COOLER CONDENSING UNIT | - | - | - | 12 |
| 12 | - | 1.06 | - | COOLER EVAPORATOR UNIT | 8 | 20 | 1 | 12 |
| 12 | - | - | 0.36 | COOLER EVAPORATOR UNIT | 1 | 20 | 11 | 12 |
| - | - | - | - | SPACE | - | - | - | 12 |
| - | - | - | - | SPACE | - | - | - | 12 |
| - | - | - | - | SPACE | - | - | - | 12 |
| - | - | - | - | SPACE | - | - | - | 12 |

CONNECTED LOAD:
 PHASE A: 4.17 KVA
 PHASE B: 4.29 KVA
 PHASE C: 2.83 KVA
 TOTAL CONNECTED LOAD = 11.39 KVA



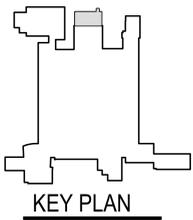
PARTIAL SINGLE LINE DIAGRAM

SCALE: NOT TO SCALE



PARTIAL ROOF PLAN

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



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CORPORATE HEADQUARTERS
 2500 WRANGLE HILL ROAD, STE. 110
 BEAR, DE 19701
 P: (302) 832-1652 F: (302) 832-1423
 E-Mail: info@studiojaed.com
 Website: www.studiojaed.com

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| DESCRIPTION | DATE |
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PROJECT: SEAFORD SCHOOL DISTRICT
 WALK-IN FREEZER REPLACEMENT

SHEET TITLE: SEAFORD CENTRAL ELEMENTARY SCHOOL

1 DELAWARE PLACE
 SEAFORD, DE 19973

ELECTRICAL DEMOLITION AND NEW PLAN

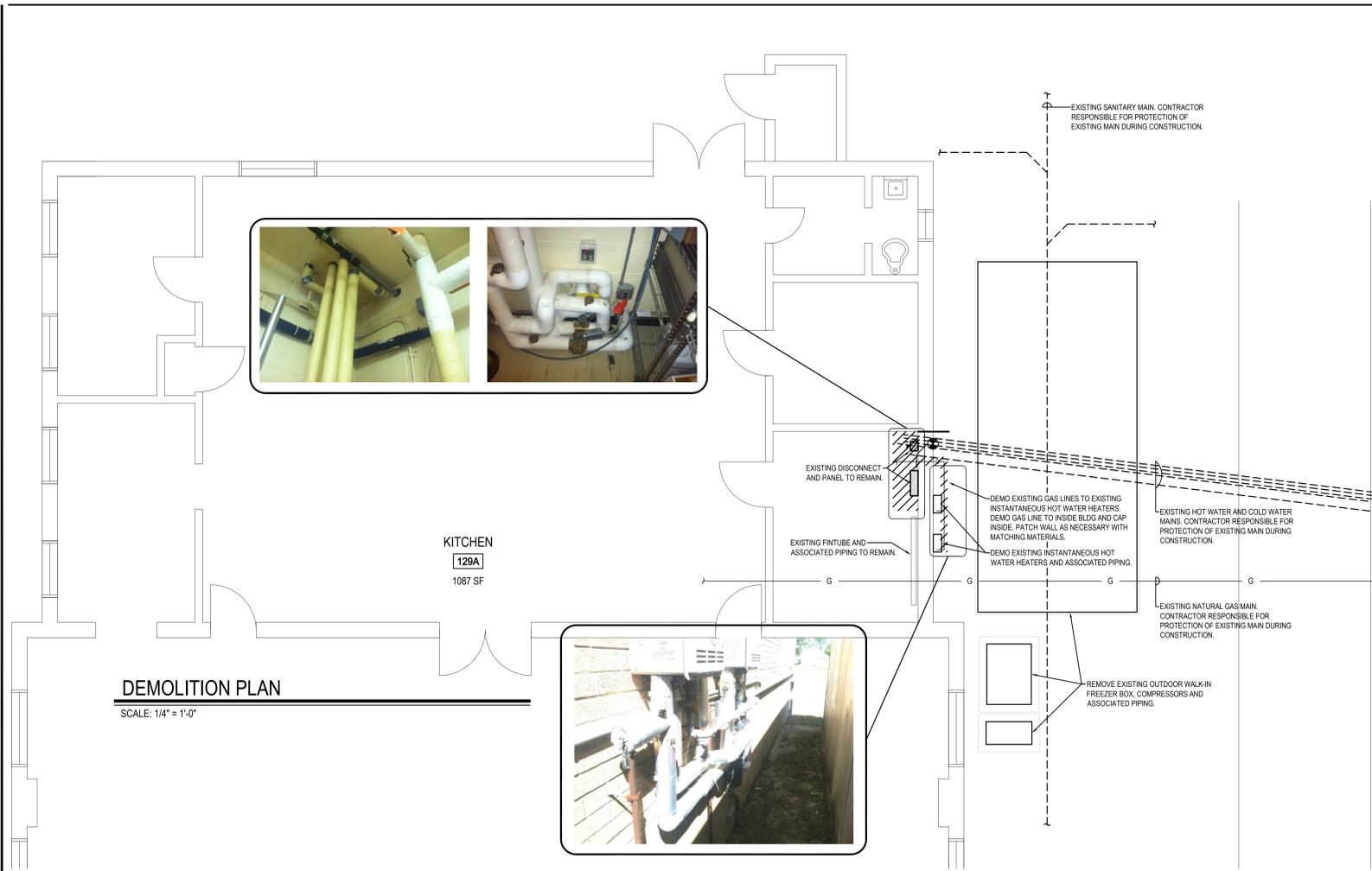
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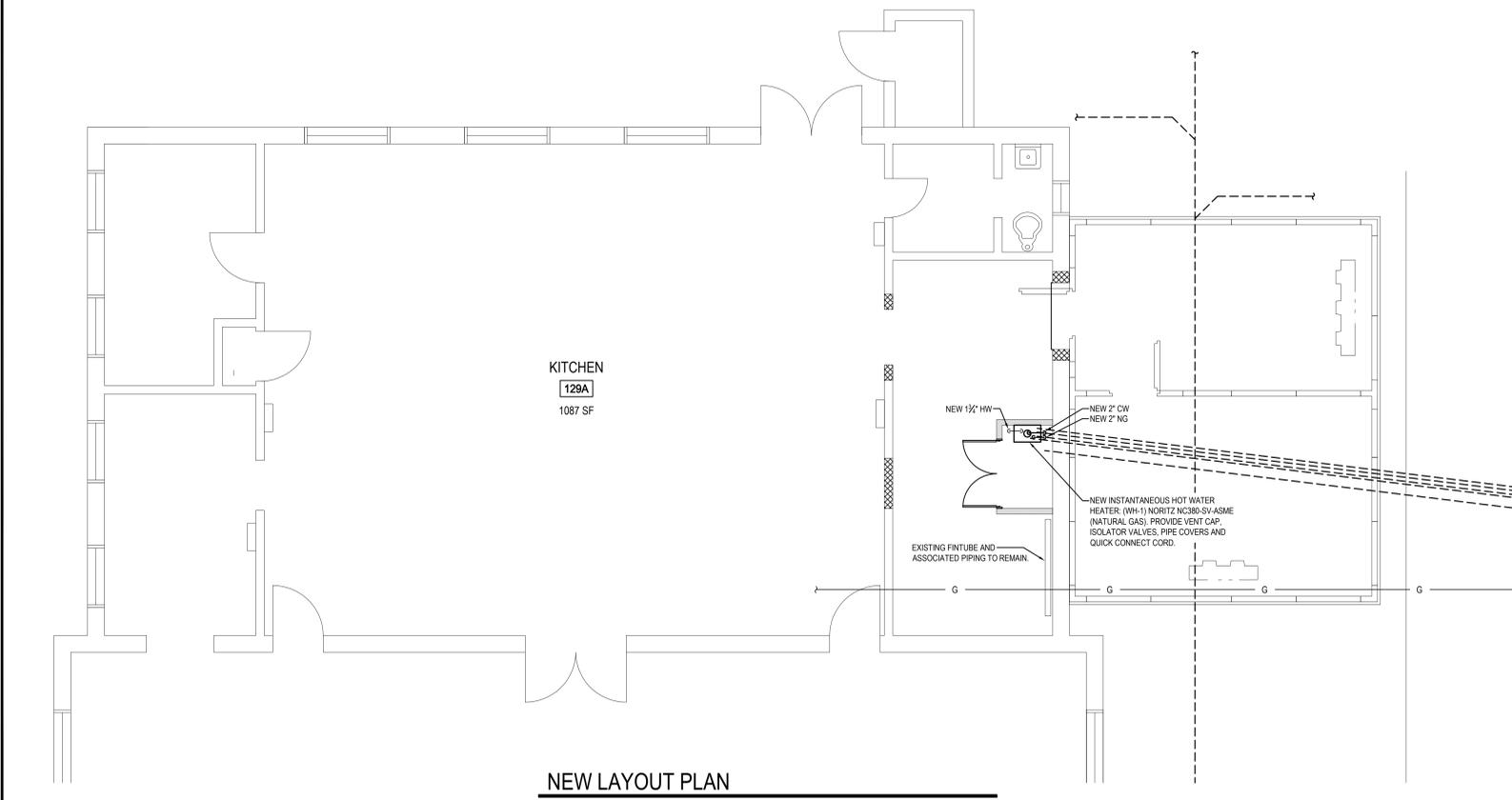
PROJECT NO.: 12016

THE RECORD OF THESE PLANS BY HAND COPY OR ELECTRONIC TRANSMISSION BY FAX OR E-MAIL. THE RECORDING SHALL BE THE PROPERTY OF THE ARCHITECT AND SHALL NOT BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT. THE ARCHITECT'S LIABILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PLUMBING SYSTEMS SHOWN ON THESE PLANS. THE ARCHITECT DOES NOT WARRANT OR REPRESENT THAT THE PLUMBING SYSTEMS SHOWN ON THESE PLANS WILL BE FREE FROM DEFECTS OR THAT THE PLUMBING SYSTEMS WILL BE FREE FROM DEFECTS OR THAT THE PLUMBING SYSTEMS WILL BE FREE FROM DEFECTS OR THAT THE PLUMBING SYSTEMS WILL BE FREE FROM DEFECTS. THE ARCHITECT'S LIABILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PLUMBING SYSTEMS SHOWN ON THESE PLANS. THE ARCHITECT DOES NOT WARRANT OR REPRESENT THAT THE PLUMBING SYSTEMS SHOWN ON THESE PLANS WILL BE FREE FROM DEFECTS OR THAT THE PLUMBING SYSTEMS WILL BE FREE FROM DEFECTS OR THAT THE PLUMBING SYSTEMS WILL BE FREE FROM DEFECTS.



DEMOLITION PLAN

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

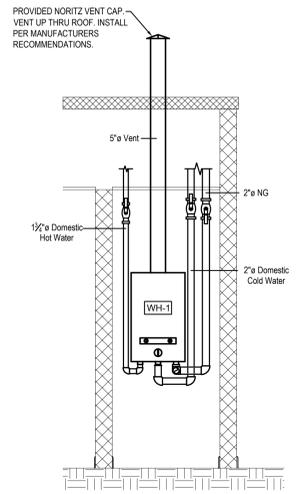
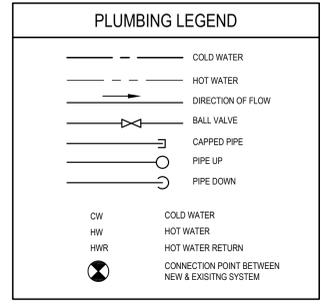


NEW LAYOUT PLAN

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

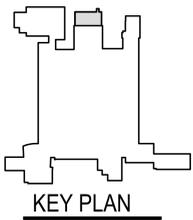
- PIPING GENERAL NOTES**
- INSTALL ALL GAUGES AND METERS AS SHOWN ON DRAWINGS AND AS SPECIFIED.
 - INSULATE ALL PIPING AS SPECIFIED.
 - UNLESS OTHERWISE SHOWN OR SPECIFIED, ALL CONDENSATE DRAINS FROM ALL HVAC UNITS SHALL BE TRAPPED AND PIPED THROUGH THE BUILDING AND DRAINED THROUGH THE EXTERIOR WALL OF THE BUILDING AT A HEIGHT NOT TO EXCEED 18" ABOVE GRADE. PIPE SIZES SHALL MATCH SIZE OF DRAIN CONNECTION AT A MINIMUM. UNIT DRAINS SHALL NOT BE GANGED TOGETHER UNLESS APPROVED BY ARCHITECT/ENGINEER. UNLESS OTHERWISE SHOWN OR STATED, CONDENSATE PIPING SHALL NOT BE EXPOSED.
 - ALL FLOOR PENETRATIONS SHALL BE SLEEVED AND SEALED AS SPECIFIED.
 - THE CONTRACTOR IS RESPONSIBLE FOR ALL NEW PIPING PENETRATIONS IN WALLS AND FLOORS. THE PIPING PLANS DO NOT SPECIFICALLY NOTE WHERE PIPING PENETRATES WALLS AND FLOORS. IT IS THE CONTRACTOR'S RESPONSIBILITY PRIOR TO BID TO STUDY THE PLANS AND IF NECESSARY EVALUATE THE SITE, TO ACCOUNT FOR ALL PIPING PENETRATIONS OF THE EXISTING STRUCTURE.
 - THE CONTRACTOR SHALL PROVIDE NEW SUPPORTS OF COMPATIBLE MATERIAL FOR ALL NEW PIPING.
 - PROVIDE CHILLED WATER SUPPLY/RETURN SYSTEM, DOMESTIC WATER DISTRIBUTION SYSTEM, DOMESTIC HOT WATER SUPPLY/RETURN SYSTEM TO THE EXTENT SHOWN ON PLAN DRAWINGS AND IN DETAILS.
 - ALL CONTROL VALVES TO BE INSTALLED OVER DRAIN PANS IN HVAC UNITS.
 - ALL PIPING SHALL BE SIZED AS CALLED OUT ON DRAWINGS, AND MAY NOT BE DOWN SIZED BETWEEN CONTROL VALVE AND COIL.
 - ALL GAS PIPING IS TO BE INSTALLED PER NFPA 54, AND ALL LOCAL AND NATIONAL CODES.
 - BEFORE ANY SYSTEM OF GAS PIPING IS FINALLY PUT IN SERVICE, IT SHALL BE TESTED TO ENSURE THAT IT IS GAS TIGHT. TO TEST FOR TIGHTNESS, THE PIPING SHALL BE FILLED WITH AIR OR AN INERT GAS, BUT NOT WITH ANY OTHER GAS OR LIQUID. TESTING, INSPECTION AND PURGING OF GAS PIPING SYSTEMS SHALL COMPLY WITH NFPA 54.
 - GAS PIPING ROUTED AT GROUND LEVEL IS TO SIT IN PIPING SADDLES, AND NOT TO BE IN CONTACT WITH CONCRETE OR GROUND.
 - PROVIDE REDUCERS, FITTINGS, AND CONNECTORS TO EQUIPMENT FOR A COMPLETE GAS PIPING INSTALLATION. FITTINGS, JOINTS AND CONNECTIONS SHALL BE OF AN APPROVED TYPE FOR GAS PIPING SYSTEMS.
 - ALL NEW EXPOSED PIPING IN OCCUPIED AREAS SHALL BE ENCLOSED IN CUSTOM FIN TUBE ENCLOSURES OF 14 GA. STEEL. ENCLOSURES SHALL BE BY VULCAN, SHAW-PERKINS, OR TRANE COMPANY. UNITS SHALL BE PAINTED. COLOR SHALL BE SELECTED BY ARCHITECT.
 - PROVIDE AIR VENTS AT ALL HIGH POINTS IN SYSTEM. PROVIDE DRAIN VALVES TO ALL LOW POINTS IN SYSTEM.
 - PROVIDE ISOLATION VALVES AT ALL BRANCH PIPING TAKEOFFS.
 - COORDINATE INSTALLATION OF ALL NEW PIPING WITH EXISTING FIRE PROTECTION PIPING, CONDUIT, EXHAUST/RELIEF DUCT WORK, AND STRUCTURE.
 - PROVIDE SPLASH BLOCKS FOR ALL CONDENSATE DRAINS.
 - FOR CONDENSATE DRAIN PIPING RUNS LONGER THAN 50 FEET, PROVIDE A REMOVABLE PLUG AT A CHANGE OF DIRECTION EVERY 50 FT.

- GENERAL PLUMBING NOTES**
- SEE THE ARCHITECTURAL DRAWINGS FOR INFORMATION ON THE SCOPE OF CONSTRUCTION.
 - FOR ALL EQUIPMENT REQUIREMENTS, REFER TO SPECIFICATIONS, PLUMBING SCHEDULE OR DRAWINGS. CONTRACTOR SHALL NOT INSTALL EQUIPMENT MATERIALS UNTIL SAME IS APPROVED.
 - INSTALL WATER HAMMER ARRESTORS IN DOMESTIC WATER PIPING AS REQUIRED PER P.D.I. WH-201 STANDARDS FOR WATER HAMMER ARRESTORS.
 - PRIOR TO SUBMITTING BID, THE CONTRACTOR SHALL VISIT THE SITE AND BE THOROUGHLY FAMILIAR WITH THE EXISTING CONDITIONS AND PROPOSED CONSTRUCTION. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL MATERIALS, LABOR AND INCIDENTALS FOR A COMPLETE INSTALLATION WHETHER SPECIFICALLY INDICATED OR NOT. ALL ERRORS, DISCREPANCIES AND MISSED ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER DURING THE BIDDING PROCESS BY THE CONTRACTOR. THESE ITEMS SHALL BE INCLUDED IN THE BID PRICE. NO EXTRA COST WILL BE ALLOWED FOR ANY DISCREPANCY WHICH COULD HAVE BEEN NOTICED AT THE SITE BY THE CONTRACTOR.
 - ALL INSTALLATIONS SHALL COMPLY WITH ALL CODES OR REGULATIONS, LOCAL, STATE, OR NATIONAL HAVING JURISDICTION OVER THE PROJECT.
 - ALL FIXTURES AND PIPING INSTALLATIONS SHALL BE PROPERLY BRACED, RIGIDLY SUPPORTED, AND INSTALLED WITH ADEQUATE VIBRATION ISOLATION AND INSULATION.
 - PROVIDE ALL LABOR, MATERIALS, AND INSTALLATION APPARATUS TO INSURE A COMPLETE OPERATING SYSTEM IMPLIED BY DRAWING CONTENT AND AS SPECIFIED.
 - THOROUGHLY COORDINATE ALL PLUMBING INSTALLATIONS WITH WORK OF OTHER CONSTRUCTION DISCIPLINES.
 - SEAL ALL RESPECTIVE WALL, FLOOR, AND CEILING/ROOF PENETRATIONS AS APPROPRIATE TO MAINTAIN A WEATHER TIGHT ENCLOSURE. FIRE BARRIER, SMOKE BARRIER, ETC. AS APPLICABLE. REFER TO ARCHITECTURE PLANS FOR SMOKE AND FIRE BARRIERS/PARTITIONS.
 - CONTRACTOR TO PAY FOR ALL FEES AND PERMITS ASSOCIATED WITH PLUMBING WORK INDICATED AS NECESSARY TO SECURE A COMPLETE AND OPERATIONAL SYSTEM ON SCHEDULE AND IN A TIMELY MANNER.
 - CONNECT HW, CW, VENT, AND SOIL & WASTE LINES TO FIXTURES IN ACCORDANCE WITH SIZES INDICATED ON FIXTURE SCHEDULE.
 - ALL DIMENSIONS AND PIPE SIZES ARE IN INCHES, UNLESS NOTED OTHERWISE.
 - FURNISH AND INSTALL ACCESS PANELS WHERE REQUIRED FOR ACCESS TO ALL CONCEALED VALVES, TRAPS, OR OTHER EQUIPMENT FURNISHED UNDER THIS CONTRACT WHERE NO OTHER MEANS IS AVAILABLE.
 - INSTALL ALL SHUT-OFF AND ISOLATION VALVES (WITH ACCESS PANELS IF NECESSARY) IN A LOCATION WHICH IS ACCESSIBLE FROM THE MAIN FLOOR.
 - KEEP ALL OPENINGS IN PIPES OR FITTINGS PLUGGED OR CAPPED UNTIL CONNECTED.
 - MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET MUST BE COMPLETE, CURRENT AND AVAILABLE FOR INSPECTION WHEN REQUISITIONS FOR PAYMENT ARE SUBMITTED.



WH-1 SECTION

SCALE: NOT TO SCALE



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STUDIO JAED
 ARCHITECTS ■ ENGINEERS ■ FACILITIES SOLUTIONS

1 DELAWARE PLACE
 SEAFORD, DE 19771

Web: www.studiojaed.com
 E-Mail: info@studiojaed.com
 P: (302) 832-1652 F: (302) 832-1423

REVISIONS

| DESCRIPTION | DATE |
|-------------|------|
| | |

PROJECT
 SHEET TITLE

SEAFORD SCHOOL DISTRICT
 WALK-IN FREEZER REPLACEMENT

SEAFORD CENTRAL ELEMENTARY SCHOOL

1 DELAWARE PLACE
 SEAFORD, DE 19773

PLUMBING DEMOLITION AND NEW PLAN

BID DOCUMENTS
 MAY 14, 2012

DRAWN: JRB
 DISCIPLINE: P

CHK/DISIGNER: BMZ
 SHEET NO.: 10.1

PROJECT NO.: 12016