DURKEE BROWN VIVEIROS WERENFELS ARCHITECTS

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ADDENDUM TO THE CONTRACT DOCUMENTS

ADDENDUM No.: 7 **DATE :** 9/23/15

PROJECT: New Town Hall Construction Project, 26 Court Street, Plymouth, MA

OWNER: Town of Plymouth, 11 Lincoln Street, Plymouth, MA 02360

OWNER'S PROJECT MANAGER: STV/DPM, One Gateway Center, 300 Washington Street, Suite 951, Newton, MA 02458

The following items will amend the Contract Documents or provide clarification and are to be considered a part of the Bid Documents. Information provided in this addendum supersedes and supplements all portions of the Bid and Construction Documents with which it conflicts.

General:	Description:
Site Utilization Question	The intent is that the parking lots identified on Drawing ST-1, within the temporary fence areas, are to be used by the Contractor for stockpile, lay-down and parking throughout construction.
Personnel Question	The minimum personnel required for this Project are identified in Section 013100 "Project Management and Coordination," Paragraph 1.7.A. The project superintendent and assistant project superintendent must be on-site at all times during working hours. The General Contractor shall determine who else must be located on-site for proper execution of the Work.
Contract Time Question	The entire project shall reach Substantial Completion no later than 545 calendar days from the date of Contract Award and Notification to Proceed. Final Completion shall take place no later than 60 calendar days after Substantial Completion.
Site Granite Questions	1. Thermal finish "Jet Mist" granite is available from Swenson Granite, Structural Stone, and Cold Spring Granite. 2. Granite not specifically called out on the Documents as by the Masonry FSB Contractor shall be provided by the General Contractor. 3. The granite cap on the site retaining walls shall be 8-inches thick as shown on Architectural Detail 31/A501.
Site Stone Wall Question	The new stone wall shown on Drawing C-2 and detailed on Drawing C-9 is the responsibility of the General Contractor.
Site Bollard Question	The concrete filled steel bollards detailed on Drawing C-6 and specified in Section 055000 "Metal Fabrications" are to be furnished by the Misc. Metals FSB Contractor and installed by the General Contractor.
Site Electric Question	Concrete encasement is not required for site lighting conduits.
Key Note Questions	The work called for in keynotes 6.32 & 6.36 as shown on the Drawings is meant to be done by the General Contractor in conjunction with the other wood repairs inside the Courtroom.
Testing Question	Section 014000 "Quality Requirements," Paragraph 1.7.A states that where indicated as "Owner's Responsibility" the Owner will arrange and pay for testing. Other tests as identified in the Documents are the responsibility of the Contractor, in accordance with Paragraph 1.7.C. The Town will engage and pay for an independent third-party testing agent for on-site inspections as identified in Paragraph 1.7.B.
Temporary Electric Question	The General Contractor shall carry the cost to engage the Electrical FSB Contractor to provide all temporary electrical work not specifically shown on the Electrical Drawings.
Temporary Water Service Question	The General Contractor shall carry the cost to engage the Plumbing FSB Contractor to provide all temporary water service work not specifically shown on the Plumbing Drawings.
Firestopping Question	All firestopping is to be provided by the General Contractor as per Section 078413 "Penetration Firestopping" and the Drawings. FSB specification sections refer back to this section for work to be done by the GC.

General:	Description:
Bracing of Concrete Walls Question	In lieu of erecting first and second floor steel; including lateral bracing, and constructing said concrete slabs as noted on Drawing S100, the General Contractor may provide temporary bracing of the foundation walls. The temporary bracing must be designed and specified by a Professional Engineer (P.E.) registered in the Commonwealth of Massachusetts. Drawings and calculations prepared by this P.E. would have to be submitted for the Structural Engineer's review and approval prior to implementation. The General Contractor must coordinate the erection of the steel and construction of the slabs around the temporary bracing since the bracing must remain in place until the steel has been erected and the slabs have been constructed and cured. All costs associated with this alternative approach must be included in the Base Bid.
Off-Site Soil Disposal	Location of off-site disposal is at the discretion of the General Contractor. All items shall be disposed of in accordance with applicable State and Federal law.
Concrete Waterproofing Admix Questions	1. Refer to Paragraph 2.5.C for waterproofing admix type and manufacturers. 2. Locations identified in Paragraph 2.13 are required for this Project. 3. Alternate products must be submitted for the Architect's review and approval as a substitution request per Section 016000 "Product Requirements."
Site Demolition Questions	The foundations shown on the Sanborn Maps issued as part of Addendum #6 are for the four buildings shown marked-up in red and clouded. Please use the 1820 Courthouse as a reference. This work is in addition to the demolition scope shown on Drawing ST-1.
Zinc Wall Shingles	All areas indicated to receive zinc shingles shall be installed on 30 lb. felt over 1/2" thick exterior grade plywood sheathing on galvanized metal framing system.

Specification:	Description:
Section 000000 Table of Contents	Add Section 132700 "Vaults."
Section 044310 Granite Cut Site Stone	Paragraph 2.2.C - Revise to read as follows: "Finish to be thermal finish on top; bottom and sides to be sawn."
Section 122413 Roller Window Shades	Paragraph 2.1.A - Add Item #4 as follows: "4. "SL20 Shade" and "Dual Manual Shade" by SWF Contract - Springs Window Fashions."
Section 132700 Vaults	Add the attached section in its entirety.

Drawing No.:	Description:
Landscape	
L2.0	Details #12 & #13 - Change Granite Cap type "A" and "B" to be 8-inches thick

Drawing No.:	Description:
Architectural	
A200	Incorporate the changes to provide a prefabricate vault in the location of Special Archives Room #008 as shown in plan and section on the attached sketch SKA-008 and preliminary manufacturer's drawings. Refer to Section 132700 "Vaults" for additional information. The fire protection, mechanical, and electrical work will be coordinated during construction since the Filed Sub-Bids for these trades have already been received. Provide a furred 5/8" gypsum board ceiling on the ceiling inside the vault.
A402	Section #8 - Revise the zinc shingle note to read as follows: "Zinc shingles on 30 lb. felt over 1/2" thick exterior grade plywood sheathing on galvanized metal framing system over continuous 4" thick mineral wool insulation on typical exterior back-up wall construction."

Drawing No.:	Description:
Architectural	
A501	Details #24, 25 & 26 - Add 30 lb. felt and 1/2" thick exterior grade plywood sheathing behind the zinc shingles, on the galvanized metal framing system.
A502	Detail #10 - Add 30 lb. felt and 1/2" thick exterior grade plywood sheathing behind the zinc shingles, on the galvanized metal framing system.
A503	Detail #20 - Add 30 lb. felt and 1/2" thick exterior grade plywood sheathing behind the zinc shingles, on the galvanized metal framing system.
A601	Interior Elevations #19 & #20 - Revise notes "WC-2" to be "WC-1"
A805	Door Schedule: Omit door #008 in its' entirety. Relocate card access reader to the modular vault entry door. Coordinate with vault manufacturer and electrical filed sub-bid contractor..

Drawing No.:	Description:
Electrical	
E003	1. Revise the detail bubble on the SL3 site fixtures to be "3/E003" 2. Revise Detail #3 "Type "SL2" Bollard Base Detail" to read "Type SL3" Bollard Base Detail."

Attachments:

SKA-008, "New Basement Vault," dated 9/21/15.

Firelock Sheets PLY-15-1 & PLY-15-2.

End of Addendum No. 7

SECTION 132700 - VAULTS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Instructions to Bidders, General Provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections; and Drawings apply to this Section and shall be binding on the Contractor and all Subcontractors who perform the Work for this Project.

1.2 SUMMARY

A. Section includes fire-resistance-rated, modular vault assemblies.

1.3 PREINSTALLATION MEETINGS

A. Pre-Installation Conference: Conduct conference at Project site.

1.4 SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For modular vault assemblies.

1. Include plans, elevations, sections, and attachment and assembly details.
2. Include diagrams for power, signal, and control wiring.
3. Indicate locations of electrical receptacles and light fixtures.
4. Indicate locations of fire sprinklers.

C. Samples: For each exposed product and for each color and texture specified, in manufacturer's standard sizes.

D. Samples for Initial Selection: For each unit with factory-applied finishes.

1. Include Samples of accessories involving color and finish selection.

E. Samples for Verification: For each type of exposed finish in manufacturer's standard sizes.

1. Include Samples of accessories to verify color and finish selection.

F. Delegated-Design Submittal: For modular vault assemblies.

G. Qualification Data: For Installer. Vault components must be installed by factory trained and certified vault installers.

H. Welding certificates.

I. Product Certificates: For each type of vault panel and door.

J. Product Test Reports: For each vault assembly, for tests performed by a qualified testing agency.

K. Field quality-control reports.

L. Operation and Maintenance Data: For modular vault doors to include in emergency, operation, and maintenance manuals.

1. In addition to items specified in Section 017823 "Operation and Maintenance Data," include keying and combination information.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.

1. Maintenance Proximity: Not more than two (2) hours' normal travel time from Installer's place of business to Project site.

B. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."

1.6 DELIVERY, STORAGE, AND HANDLING

A. Deliver modular vault doors wrapped and crated to provide protection during transit and Project-site storage. Do not use non-vented plastic.

B. Deliver keys to Owner by registered mail or overnight package service.

1.7 FIELD CONDITIONS

A. Environmental Limitations: Do not deliver components or install modular vault assemblies until spaces are enclosed and weathertight, and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at levels intended for building occupants during the remainder of the construction period.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design modular vault assemblies.

B. Seismic Performance: Modular vault assemblies shall withstand the effects of earthquake motions determined according to ASCE/SEI 7 and the Massachusetts State Building Code.

1. The term "withstand" means "the vault assembly will remain in place without separation of any parts when subjected to the seismic forces specified."

C. Vaults shall meet all requirements of Massachusetts General Law Chapter 66,s.11 - Technical Bulletin #1 "Performance Standards of Safes and Vaults," Version 2 (1996) as amended.

2.2 FIRE-RESISTANCE-RATED MODULAR VAULTS

A. Vault Assembly: Complying with NFPA 232 and listed and labeled as an assembly according to UL 72 by a qualified testing agency; for a fire-resistance rating of Class 125, 6-hour.

1. Acceptable Manufacturers: Subject to compliance with requirements, provide products by one of the following acceptable manufacturer's:
   a. Diebold Modular Vault Systems - 599 Mayfair Road; North Canton, OH 44720; Tele: 330.490.4000
   b. Firelock Fireproof Modular Vaults - 7 Tedway Avenue; Kutztown, PA 19530; Tele: 610.756.4440
   c. Securifort Gardex Custom Modular Vaults - 2250 Bumble Bee Hollow Road; Mechanicsburg, PA 17015; Tele: 717.790.0500

B. Vault Panels: As required for fire-resistance-rated vault assembly.

1. Construction: Fabricated from ceramic insulation in expanded metal frame; with galvanized-steel sheet vapor barrier on inside vault wall panel face and ceramic insulation gaskets for between-panel connections; with integral penetrations for sprinklers; conduits for power, signal, and communication systems; and ventilating ports. Include waterproof roof/ceiling assembly to prevent water intrusion into vault.

C. Vault Door Assemblies: As required for fire-resistance-rated vault assembly.

1. Clear Opening Size: 40 inches wide by 78 inches high.
2. Door: Listed and labeled according to UL 155 by a qualified testing agency, fabricated from all-welded, insulated steel sheet construction; with jambs and head shaped to interlock with frame.
   a. Hinges: No fewer than three roller-thrust-bearing hinges of design, size, and weight required for smooth operation of door and to allow full, clear door opening; with hinge cover(s).
      1) Hinge Cover: Manufacturer's standard.
   b. Door Bolts: Permanently lubricated, not less than 11/16 inches in diameter, and fabricated from nickel-plated steel. On each vertical side of door, provide five door bolts that engage frame when extended. Bolts automatically retract when handle is operated and automatically extend when door closes.
   c. Handle: Manufacturer's standard.
   d. Combination Lock: UL 768, Group 2, three-wheel, mechanical type, capable of not less than one million possible combinations.
   e. Relocking Device: UL 140 separate relocking device that automatically deadlocks door bolts when lock is subjected to mechanical attack.
   f. Escape Mechanism: Provide emergency operation of locks from vault side of door.
   g. Door Closer: Automatic, with electromagnetic system and sensor that releases door on detection of heat or smoke; with 180-degree, hold-open position.
   h. Day Gate: Manufacturer's standard gate; full width of door opening and designed to restrict entry through vault door; with piano-type or self-closing gravity hinges.
      1) Lock: Equip gate with cylinder-type lock, controlled by key on non-secure side and by lever on secure side.
3. Second, Inner Door: Manufacturer's standard with insulating gasket separating it from the outer door.
   a. Lock: Keyed cylinder lock; automatically locks when door is closed.
   b. Escape Mechanism: Provide emergency operation of locks from vault side of door.

c. Closer: Automatic with electromagnetic hold-open device that holds door in open position until power to the device is cut.

4. Painted Finish: Manufacturer's standard factory-applied, baked-on coating applied to door, frame, and wall flanges.

a. Color: As selected by Architect from manufacturer's full range.

D. Lighting: Provide wiring, conduit and back boxes; fixed explosion proof or vapor proof LED lighting, emergency lighting, and fire alarm devices compliant with NFPA 70, NFPA 71, NFPA 72, NFPA 72E; and the Massachusetts State Electrical Code. Control lighting from a wall mounted switch located outside the vault, adjacent to the main door. GC to contract with Electrical Filed Sub-Bid Contractor to provide field installed items. Include the cost of this work in GC Base Bid.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, vault door clearances, and other conditions affecting performance of the Work.

B. Examine concrete slab and adjacent foundation wall construction where vault is to be installed.

C. Prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Coordinate size and location of modular vault assemblies with adjacent construction, and furnish anchoring devices with templates, diagrams, and instructions for their installation.

B. Provide temporary shoring or bracing while transporting modular vault components to final location as required to prevent surface damage or deflections in excess of design loads.

3.3 INSTALLATION, GENERAL

A. Manufacturer certified Installer shall install modular vault assemblies according to manufacturer's written instructions, including clearances between exterior of vault panels and other construction, to ensure compliance with fire ratings listed and Performance Requirements in Paragraph 2.1 above. Certification and acceptance by MA Supervisor of Public Records will be required and is the responsibility of the Installer and the General Contractor.

B. Set panels and doors accurately in position, level, plumb, aligned, and braced securely until permanent anchors are set. After panel erection is complete, remove temporary braces and spreaders, leaving surfaces smooth and undamaged.

3.4 FIRE-RESISTANCE-RATED VAULT ASSEMBLIES

A. Install panels, doors and frames, accessories, supplemental structural supports, and installation materials required to provide a complete modular vault that complies with the listed and labeled fire-resistance-rated assembly indicated.

B. Penetrations: Seal with firestopping as specified in Division 07 Section "Penetration Firestopping."

3.5 FIELD QUALITY CONTROL

A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect components, assemblies, and equipment installations, including connections.

B. Components, assemblies, and equipment installations, including connections, will be considered defective if they not pass tests and inspections.

C. Remove and replace modular components, assemblies, and equipment installations that do not pass inspections or where inspections indicate that units do not comply with specified requirements.

D. Prepare test and inspection reports.

3.6 ADJUSTING AND CLEANING

A. Adjust vault door hardware and operating mechanism to function smoothly, and lubricate as recommended by manufacturer.

B. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage, including dented and bent units.

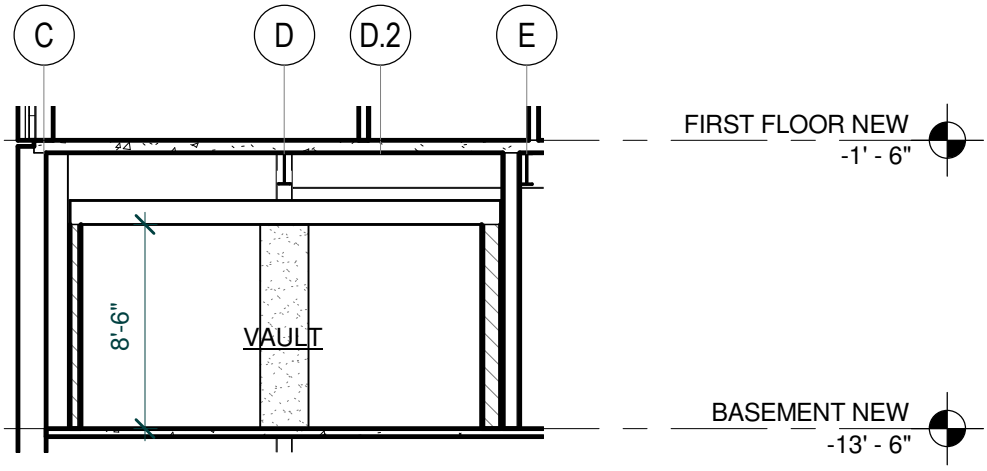
C. Touchup Painting: Immediately after erection, clean abraded areas of shop paint; paint exposed areas with same material as used for shop painting.

1. Comply with SSPC-PA 1 for touching up shop-painted surfaces.

3.7 DEMONSTRATION

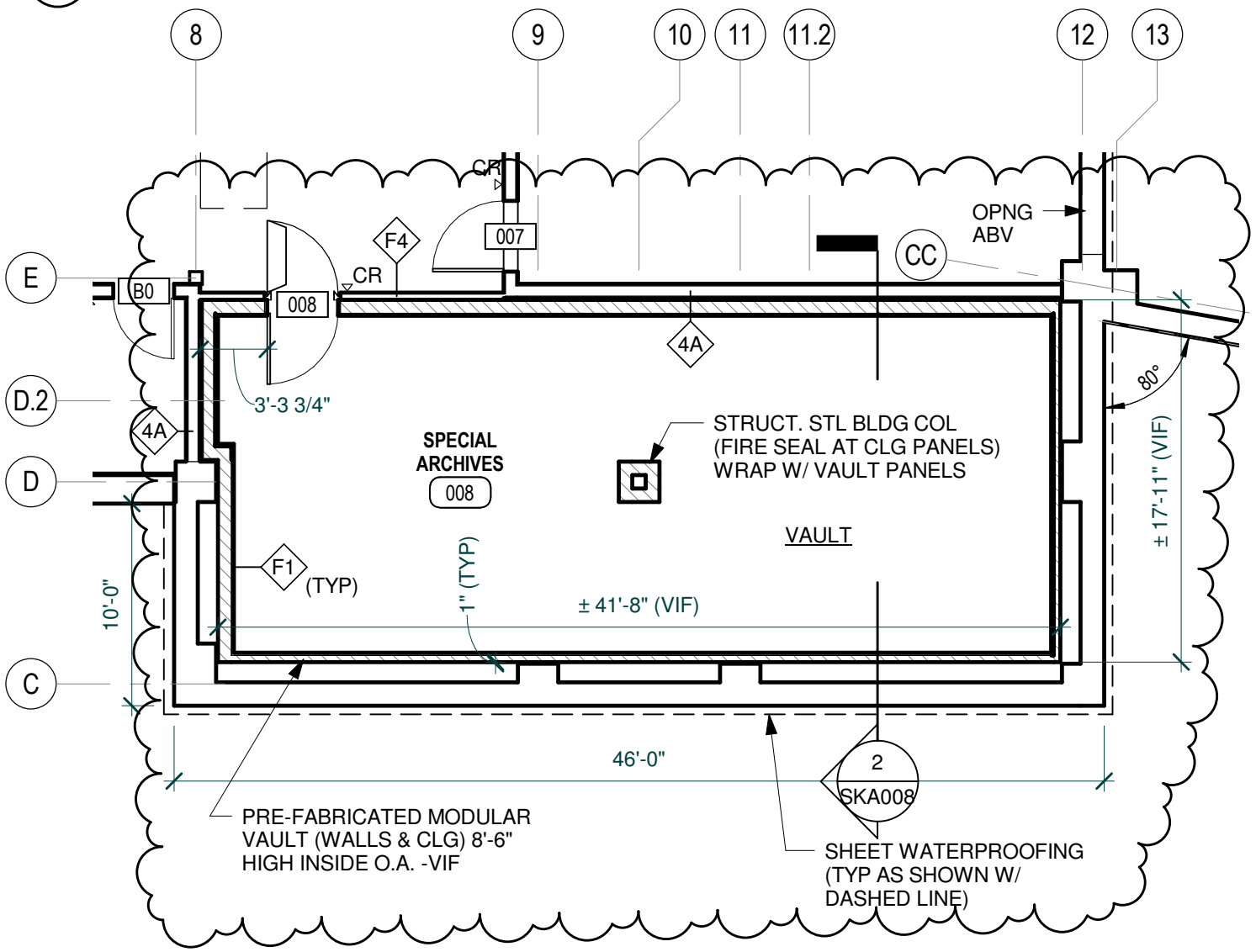
A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain modular vault doors.

END OF SECTION 132700



2 BASEMENT VAULT SECTION

1/8" = 1'-0"



1 BASEMENT VAULT

1/8" = 1'-0"

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TOWN OF PLYMOUTH
11 LINCOLN ST.

PLYMOUTH, MA 02360

PHASE II: PLYMOUTH TOWN HALL
PLYMOUTH, MA

NEW BASEMENT VAULT

SCALE:	1/8" = 1'-0"
DRAWN:	MJ
JOB NO:	1420
ISSUED FOR:	ADDENDUM 7
DATE ISSUED:	09.21.15
REVISION DATE:	

SKA008

AUTHORIZED SIGNATURE CONFIRMS THAT VAULT LOCATION AND DIMENSIONS ARE ACCEPTED

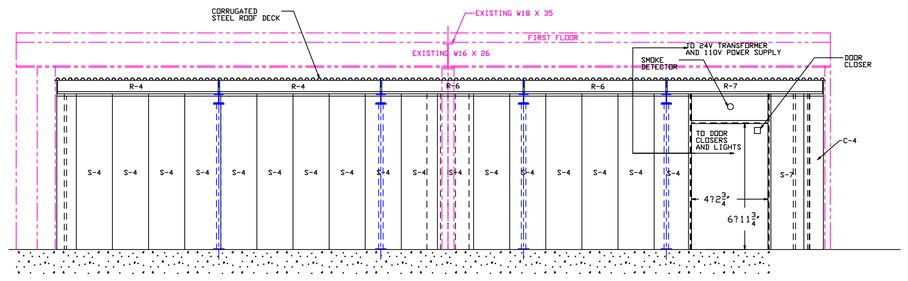
CUSTOMER REPRESENTATIVE: _____

FIRELOCK INSTALLER: _____

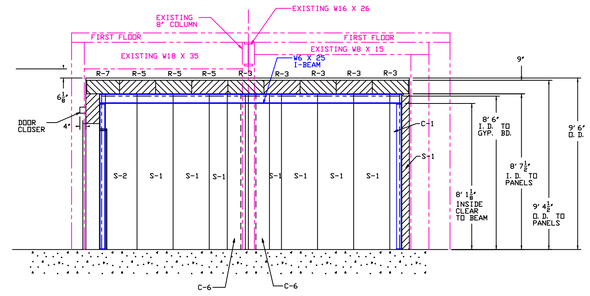
NOTE: DO NOT REST HVAC EQUIPMENT ON TOP OF ROOF CORRUGATIONS. IT IS RECOMMENDED THAT THE HEAVY WEIGHT OF THE HVAC BE SUSPENDED FROM THE RED IRON STRUCTURAL STEEL ABOVE THE VAULT.

IF THIS IS NOT POSSIBLE, PLACE 2" X 3" TREATED LUMBER IN BOTTOM OF CORRUGATIONS TO TRANSFER WEIGHT LOADS OF HVAC UNIT TO THE TOP OF THE VAULT WHERE STRENGTH IS GREATER.

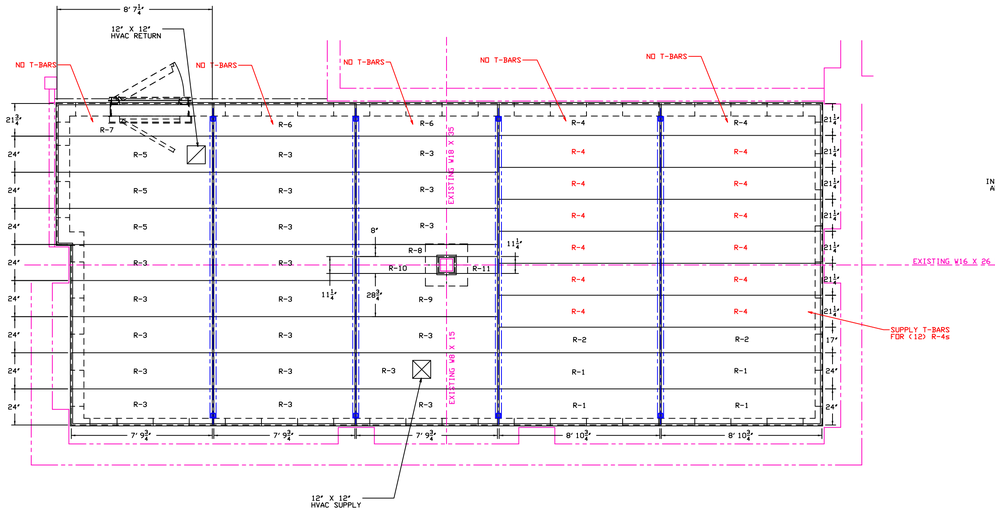
IF EQUIPMENT IS PLACED ON THE VAULT ROOF, IT SHOULD BE CENTERED OVER THE STRUCTURAL SUPPORT STEEL OR NEAR THE CORNERS OF THE VAULT.



SECTION A- A



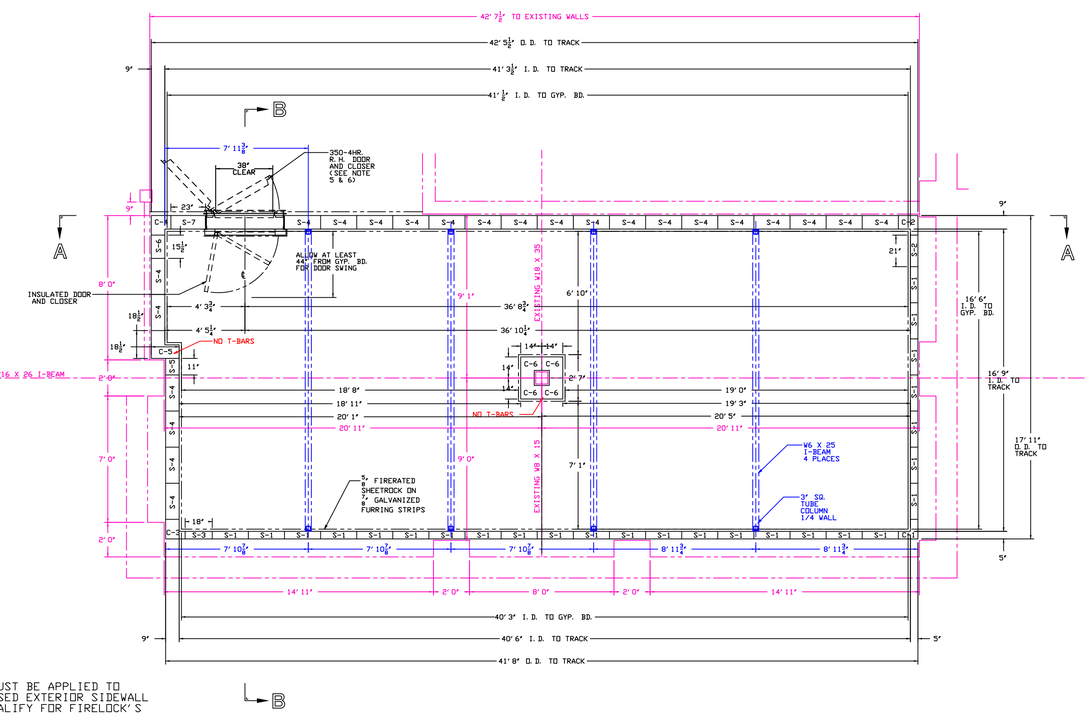
SECTION B- B



NOTE: HVAC DAMPER LOCATIONS BY HVAC CONTRACTOR

ROOF PLAN

SHEETROCK (BY OTHERS) MUST BE APPLIED TO VAULT INTERIOR AND EXPOSED EXTERIOR SIDEWALL SURFACES IN ORDER TO QUALIFY FOR FIRELOCK'S CERTIFICATION PROGRAM.



SIDEWALL PLAN

FIRELOCK INSTALLATION SITE CONDITIONS CHECKLIST

1. JOBSITE DELIVERY INFORMATION
   - _YES _NO IS THERE PAVED ACCESS TO ACCEPT A 53 FOOT CONTAINER?
   - _YES _NO ARE THERE PARKING RESTRICTIONS OR RESTRICTIONS FOR UNLOADING IN A 3-4 HOUR TIME PERIOD?
   - _YES _NO IS THERE A LOADING DOCK AVAILABLE?
2. UPPER FLOOR JOBSITES
   - _YES _NO IS THERE A FREIGHT ELEVATOR AVAILABLE?
   - _YES _NO WHAT IS THE SIZE OF THE ELEVATOR OPENING AND THE INSIDE CLEAR DIMENSIONS?
3. WASTE DISPOSAL
   - _YES _NO ARE DUMPSTERS OR WASTE DISPOSAL CONTAINERS AVAILABLE?
4. WORK HOURS
   - _YES _NO IS A WEEKEND OR OVERTIME WORK SCHEDULE ALLOWED?
5. VAULT CLEARANCES
   - _YES _NO WILL VAULT SPACE BE CLEAR OF OVERHEAD OBSTRUCTIONS SUCH AS DUCTS, PIPING, SPRINKLERS AND ELECTRICAL OR HVAC EQUIPMENT?
6. STAGING AREA
   - _YES _NO IS THERE SPACE AVAILABLE EQUAL TO 2 TIMES THE AREA OF THE VAULT PERIMETER?
7. VAULT FLOOR CONDITIONS
   - _YES _NO IS VAULT FLOOR LEVEL?
   - _YES _NO IS FLOOR SUITABLE FOR INSTALLATION OF CONCRETE ANCHOR BOLTS UP TO 1/2" DIAMETER X 3" DEPTH?
   - _YES _NO IF ABOVE GRADE, IS FLOOR CONSTRUCTION POURED CONCRETE SLAB SUPPORTED BY FIRE PROTECTED STEEL?
8. WELDING
   - _YES _NO IS THE SPACE SUITABLE FOR LIGHT WELDING ACTIVITY WITH WIRE WELDING MACHINE?
   - _YES _NO IS POWER SERVICE FOR WELDING AVAILABLE?
     - __ 120V - 30 AMP
     - __ 240V - 50 AMP

NOTES

1) OWNER/PURCHASER MUST SUPPLY 240 VOLT AC - 30 AMP POWER SUPPLY PLUG IN AREA OF VAULT TO RUN WELDING MACHINE.
2) SAFETY GLASSES, WORK BOOTS, LEATHER GLOVES AND DUST MASK TO BE WORN WHEN HANDLING PANELS.
3) VAULT TO BE ASSEMBLED BY FIRELOCK INSTALLERS (EXCEPT FINISHOUT WORK AS DETAILED IN "WORK BY OTHERS" BELOW)
4) FIRELOCK TO PROVIDE CABLE TRAY UNITS FOR WIRE PENETRATIONS. - SEE CABLE TRAY DETAIL ON SHEET 2
5) THE VAULT DOOR AREA MUST HAVE A SMOOTH AND LEVEL FLOOR. ANY BUMPS IN THE FLOOR NEAR THE DOOR AREA WILL CAUSE THE VAULT DOOR TO BE IMPEDED FROM CLOSING OR CREATE GAPS WHICH COULD POSE A HAZARD TO THE VAULT SYSTEM.
6) VAULT DOORS ARE TO BE SET WITH A DOOR STOP SO THAT THE VAULT DOOR ONLY OPENS TO 120 DEG. TO ASSURE THE DOOR CLOSER WILL SEAL THE VAULT DOOR IN EVENT OF SMOKE, HEAT OR POWER FAILURE. DUE TO THE WEIGHT OF THE VAULT DOOR, THE DOOR CANNOT BE SET AT 180 DEG. OPEN. THE DOOR CAN BE SET AT 90 DEG. OR UP TO 120 DEG. OPEN FOR MAXIMUM EFFICIENCY OF THE CLOSER.
7) DO NOT REST HVAC EQUIPMENT ON TOP OF ROOF CORRUGATIONS. IT IS RECOMMENDED THAT THE HEAVY WEIGHT OF THE HVAC BE SUSPENDED FROM THE RED IRON STRUCTURAL STEEL ABOVE THE VAULT. IF THIS IS NOT POSSIBLE, PLACE 2" X 3" TREATED LUMBER IN BOTTOM OF CORRUGATIONS TO TRANSFER WEIGHT LOADS OF HVAC UNIT TO THE TOP OF THE VAULT WHERE STRENGTH IS GREATER.
8) IF EQUIPMENT IS PLACED ON THE VAULT ROOF, IT SHOULD BE CENTERED OVER THE STRUCTURAL SUPPORT STEEL OR NEAR THE CORNERS OF THE VAULT.
9) DOOR ASSEMBLY IS DESIGNED TO ACCOMMODATE FLOOR COVERING UP TO 1/4" THICKNESS ON A FLAT LEVEL CONCRETE FLOOR SURFACE. IF FLOOR COVERING REQUIRES ADDITIONAL CLEARANCE, CONTACT FIRELOCK TO REVISE DOOR ASSEMBLY DETAILS.

DESIGN

D1) VAULT AREA SHOULD BE EQUIPPED TO ALLOW FOR REMOVAL OF WATER IN THE EVENT OF FLOODING, SPRINKLER ACTIVATION, OR MAIN BREAK.
D2) NO PENETRATIONS OF VAULT SHALL OCCUR AFTER COMPLETION OF VAULT WITHOUT NOTIFICATION TO FIRELOCK FOR REVIEW AND EVALUATION.
D3) FIRE SUPPRESSION PIPING TO BE COORDINATED WITH VAULT CEILING INSTALLATION.
D4) ALL SHELVING TO BE SET A MINIMUM OF 3" ABOVE FINISHED FLOOR PER NFPA.
D5) ALL LIGHT FIXTURES TO BE CONNECTED BY A SCREW FASTENER RIGID CONDUIT WITH DUST/VAPOR RESISTANT LIGHTING.

WORK BY OWNER/GENERAL CONTRACTOR

C1) 5/8" FIRERATED GYPSUM BOARD ON GALVANIZED STEEL FIRRING STRIPS/STUDS ON ALL INTERIOR VAULT WALLS, CEILING AND EXTERIOR EXPOSED VAULT WALLS TAPE/FLOAT/PAINT FINISH, HVAC, FLOOR COVERING, WIRING AND LIGHTING.
C2) PROVIDE LEVEL FLOOR SURFACE AT EXPANSION JOINTS IN FLOOR, AS WELL AS PAINTING & SEALING OF CONCRETE FLOOR- GLOSS WHITE/SAND COAT RECOMMENDED
C3) ALL DUST & VAPOR RESISTANT LIGHT FIXTURES WITHIN VAULT, ALL CONDUIT AND ELECTRICAL SERVICE FOR LIGHT FIXTURES, EMERGENCY BACKUP, TRICKLE-CHARGE LIGHT FIXTURE AS REQUIRED FOR EGRESS FROM THE VAULT IN A POWER FAILURE.
C4) ELECTRICAL REQUIREMENTS FOR FIRE ALARMS, FIRE SUPPRESSION SYSTEM, SMOKE DETECTORS AND CONVENIENCE OUTLETS AND WIRING FOR PHONE SERVICE.
C5) ALL WATER SPRINKLER SYSTEMS, PIPING AND HEADS AS REQUIRED BY OWNER.
C6) ANY HVAC SYSTEM REQUIRED TO SERVICE VAULT INTERIOR AND PROVIDE ENVIRONMENTAL CONTROL OVER THE VAULT INTERIOR.
C7) ANY FLOOR TILE OR PAINTED FLOOR FINISH AS SPECIFIED BY OWNER.
C8) ANY WELDING PERMITS SHOULD BE OBTAINED BY GENERAL CONTRACTOR OR OWNER PRIOR TO THE FIRELOCK INSTALLATION TEAM'S ARRIVAL ON SITE.
C9) OWNER/GENERAL CONTRACTOR TO SUPPLY LOUVER DAMPERS FOR HVAC UNITS.
C10) EXTRA COSTS RELATING TO LOCAL REQUIREMENTS FOR THE USE OF SPECIALTY UNION CRAFTSMAN, CERTIFIED STRUCTURAL WELDERS OR OTHER WORKERS IN ADDITION TO FIRELOCK'S FACTORY TRAINED INSTALLERS WILL BE ADDED TO QUOTED PRICE.

SHEETROCK (BY OTHERS) MUST BE APPLIED TO VAULT INTERIOR AND EXPOSED EXTERIOR SIDEWALL SURFACES IN ORDER TO QUALIFY FOR FIRELOCK'S CERTIFICATION PROGRAM.

PATENT ENFORCEMENT

1) THE FIRELOCK MODULAR VAULT PANEL SYSTEM IS A PATENTED SYSTEM AND IS PROTECTED UNDER UNITED STATES OF AMERICA PATENT LAW. PATENT #4744186. ANY USE OF THIS SYSTEM OR ITS DESIGN ELEMENTS IS EXPRESSLY PROHIBITED.

ALTERATION

NO.	ZONE	DATE	REMARKS	DR.	CHKD.

TITLE: FIRELOCK CL 350-6HR., 125-2HR. GENERAL ARRANGEMENT DRAWING

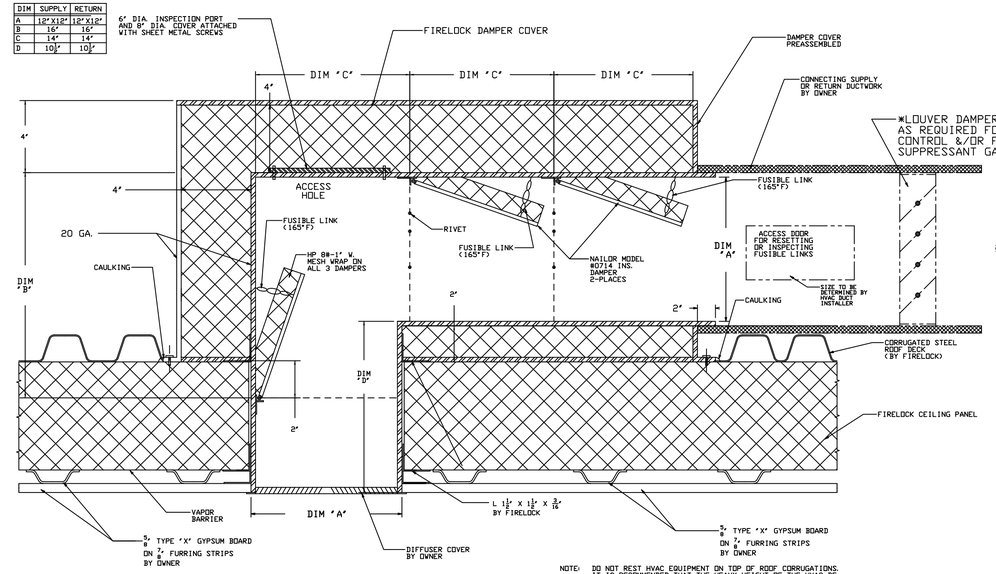
CUSTOMER: PLYMOUTH TOWN HALL- PHASE 2 BASEMENT VAULT, PLYMOUTH, MA

FIRELOCK Data Protection Systems
KUTZTOWN, PENNSYLVANIA
(610)-756-4440

SCALE: 1" = 2'-0" OR AS NOTED
DRVN. BY: L.C.L. DATE: 5/18/15
CHKD. BY: H.W.S. DATE: 5/18/15
APPD. BY:
SHEET NUMBER 1 OF 2

DRWG. NO. PLV-4-1

DIM	SUPPLY	RETURN
A	12"X12"	12"X12"
B	16"	16"
C	14"	14"
D	10½"	10½"



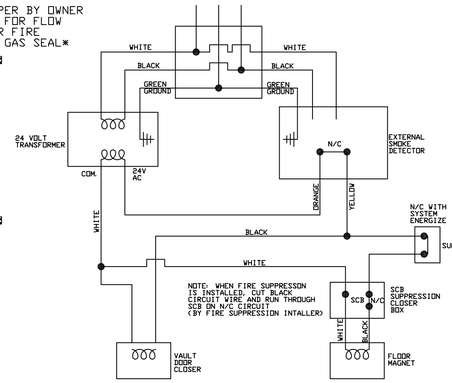
NOTE: DO NOT REST HVAC EQUIPMENT ON TOP OF ROOF CORRUGATIONS. IT IS RECOMMENDED THAT THE HEAVY WEIGHT OF THE HVAC BE SUSPENDED FROM THE RED IRON STRUCTURAL STEEL ABOVE THE VAULT.

IF THIS IS NOT POSSIBLE, PLACE 2" X 3" TREATED LUMBER IN BOTTOM OF CORRUGATIONS TO TRANSFER WEIGHT LOADS OF HVAC UNIT TO THE TOP OF THE VAULT WHERE STRENGTH IS GREATER.

IF EQUIPMENT IS PLACED ON THE VAULT ROOF, IT SHOULD BE CENTERED OVER THE STRUCTURAL SUPPORT STEEL OR NEAR THE CORNERS OF THE VAULT.

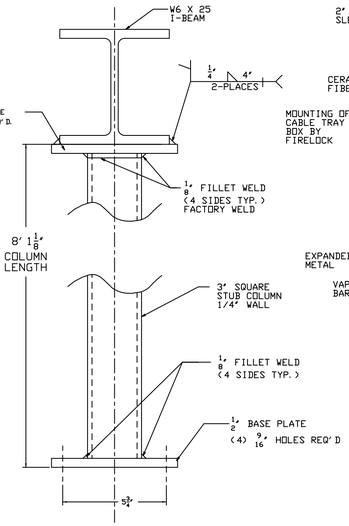
AC DUCT/DAMPER ASSEMBLY

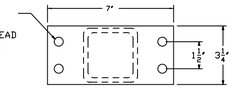
NOT TO SCALE



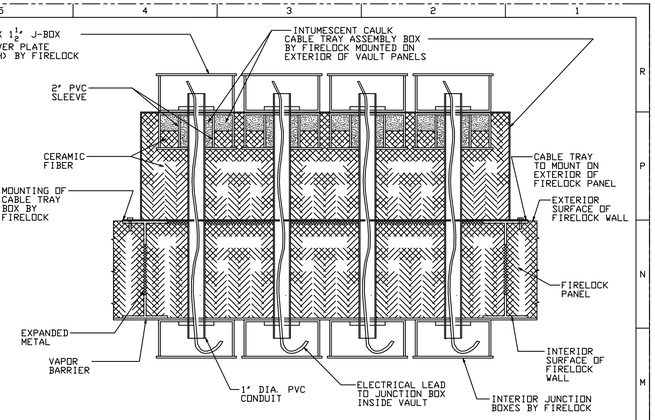
VAULT WIRING

NOT TO SCALE



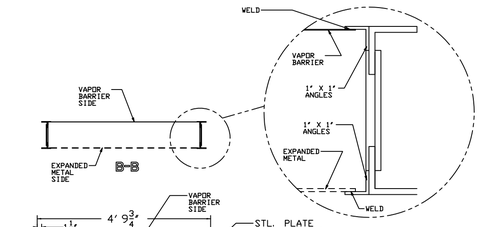


SC-1



CABLE TRAY AND WALL SECTION DETAIL

NOT TO SCALE



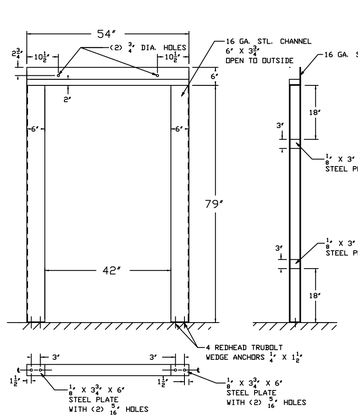
D-1

SCALE: 1/24

SEE NOTE 5 & 6

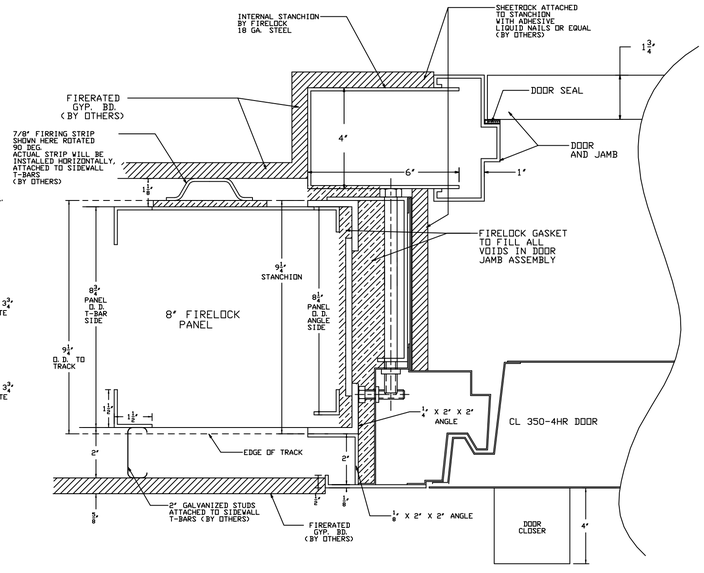
NOTE: SMOKE DETECTOR REQUIRES SUFFICIENT AIR CIRCULATION TO FUNCTION PROPERLY

WHEN INSTALLING SHEETROCK OVER DOOR, ALLOW 3" CLEARANCE ABOVE EXTERIOR DOOR CLOSER WHICH HOUSES THE SMOKE DETECTOR

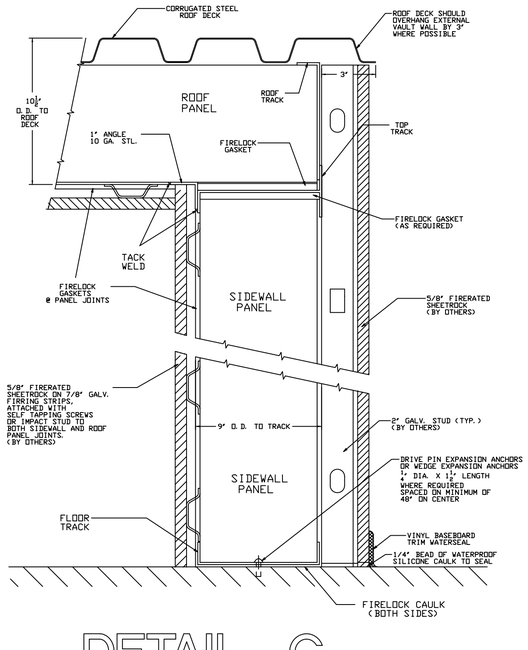


D-2

SCALE: 1/24



DOOR/PANEL DETAIL



DETAIL C

SCALE: 1/2

NOTES

1) OWNER/PURCHASER MUST SUPPLY 240 VOLT AC - 30 AMP POWER SUPPLY PLUG IN AREA OF VAULT TO RUN WELDING MACHINE.
2) SAFETY GLASSES, WORK BOOTS, LEATHER GLOVES AND DUST MASK TO BE WORN WHEN HANDLING PANELS.
3) VAULT TO BE ASSEMBLED BY FIRELOCK INSTALLERS (EXCEPT FINISHOUT WORK AS DETAILED IN 'WORK BY OTHERS' BELOW)
4) FIRELOCK TO PROVIDE CABLE TRAY UNITS FOR WIRE PENETRATIONS. - SEE CABLE TRAY DETAIL ON SHEET 2
5) THE VAULT DOOR AREA MUST HAVE A SMOOTH AND LEVEL FLOOR. ANY BUMPS IN THE FLOOR NEAR THE DOOR AREA WILL CAUSE THE VAULT DOOR TO BE IMPEDED FROM CLOSING OR CREATE GAPS WHICH COULD POSE A HAZARD TO THE VAULT SYSTEM.
6) VAULT DOORS ARE TO BE SET WITH A DOOR STOP SO THAT THE VAULT DOOR ONLY OPENS TO 120 DEG. TO ASSURE THE DOOR CLOSER WILL SEAL THE VAULT DOOR IN EVENT OF SMOKE, HEAT OR POWER FAILURE. DUE TO THE WEIGHT OF THE VAULT DOOR, THE DOOR CANNOT BE SET AT 180 DEG. OPEN. THE DOOR CAN BE SET AT 90 DEG. OR UP TO 120 DEG. OPEN FOR MAXIMUM EFFICIENCY OF THE CLOSER.
7) DO NOT REST HVAC EQUIPMENT ON TOP OF ROOF CORRUGATIONS. IT IS RECOMMENDED THAT THE HEAVY WEIGHT OF THE HVAC BE SUSPENDED FROM THE RED IRON STRUCTURAL STEEL ABOVE THE VAULT. IF THIS IS NOT POSSIBLE, PLACE 2" X 3" TREATED LUMBER IN BOTTOM OF CORRUGATIONS TO TRANSFER WEIGHT LOADS OF HVAC UNIT TO THE TOP OF THE VAULT WHERE STRENGTH IS GREATER.
8) IF EQUIPMENT IS PLACED ON THE VAULT ROOF, IT SHOULD BE CENTERED OVER THE STRUCTURAL SUPPORT STEEL OR NEAR THE CORNERS OF THE VAULT.
9) DOOR ASSEMBLY IS DESIGNED TO ACCOMMODATE FLOOR COVERING UP TO 1/4" THICKNESS ON A FLAT LEVEL CONCRETE FLOOR SURFACE. IF FLOOR COVERING REQUIRES ADDITIONAL CLEARANCE, CONTACT FIRELOCK TO REVISE DOOR ASSEMBLY DETAILS.

DESIGN

D1) VAULT AREA SHOULD BE EQUIPPED TO ALLOW FOR REMOVAL OF WATER IN THE EVENT OF FLOODING, SPRINKLER ACTIVATION, OR MAIN BREAK.
D2) NO PENETRATIONS OF VAULT SHALL OCCUR AFTER COMPLETION OF VAULT WITHOUT NOTIFICATION TO FIRELOCK FOR REVIEW AND EVALUATION.
D3) FIRE SUPPRESSION PIPING TO BE COORDINATED WITH VAULT CEILING INSTALLATION.
D4) ALL SHELVING TO BE SET A MINIMUM OF 3" ABOVE FINISHED FLOOR PER NFPA.
D5) ALL LIGHT FIXTURES TO BE CONNECTED BY A SCREW FASTENER RIGID CONDUIT WITH DUST/VAPOR RESISTANT LIGHTING.

WORK BY OWNER/GENERAL CONTRACTOR

C1) 5/8" FIRERATED GYPSUM BOARD ON GALVANIZED STEEL FIRRING STRIPS/STUDS ON ALL INTERIOR VAULT WALLS, CEILING AND EXTERIOR EXPOSED VAULT WALLS TAPE/FLOAT/PAINT FINISH, HVAC, FLOOR COVERING, WIRING AND LIGHTING.
C2) PROVIDE LEVEL FLOOR SURFACE AT EXPANSION JOINTS IN FLOOR, AS WELL AS PAINTING & SEALING OF CONCRETE FLOOR- GLOSS WHITE/SAND COAT RECOMMENDED
C3) ALL DUST & VAPOR RESISTANT LIGHT FIXTURES WITHIN VAULT, ALL CONDUIT AND ELECTRICAL SERVICE FOR LIGHT FIXTURES, EMERGENCY BACKUP, TRICKLE-CHARGE LIGHT FIXTURE AS REQUIRED FOR EGRESS FROM THE VAULT IN A POWER FAILURE.
C4) ELECTRICAL REQUIREMENTS FOR FIRE ALARMS, FIRE SUPPRESSION SYSTEM, SMOKE DETECTORS AND CONVENIENCE OUTLETS AND WIRING FOR PHONE SERVICE.
C5) ALL WATER SPRINKLER SYSTEMS, PIPING AND HEADS AS REQUIRED BY OWNER.
C6) ANY HVAC SYSTEM REQUIRED TO SERVICE VAULT INTERIOR AND PROVIDE ENVIRONMENTAL CONTROL OVER THE VAULT INTERIOR.
C7) ANY FLOOR TILE OR PAINTED FLOOR FINISH AS SPECIFIED BY OWNER.
C8) ANY WELDING PERMITS SHOULD BE OBTAINED BY GENERAL CONTRACTOR OR OWNER PRIOR TO THE FIRELOCK INSTALLATION TEAM'S ARRIVAL ON SITE.
C9) OWNER/GENERAL CONTRACTOR TO SUPPLY LOUVER DAMPERS FOR HVAC UNITS.
C10) EXTRA COSTS RELATING TO LOCAL REQUIREMENTS FOR THE USE OF SPECIALTY UNION CRAFTSMAN, CERTIFIED STRUCTURAL WELDERS OR OTHER WORKERS IN ADDITION TO FIRELOCK'S FACTORY TRAINED INSTALLERS WILL BE ADDED TO QUOTED PRICE.

SHEETROCK (BY OTHERS) MUST BE APPLIED TO VAULT INTERIOR AND EXPOSED EXTERIOR SIDEWALL SURFACES IN ORDER TO QUALIFY FOR FIRELOCK'S CERTIFICATION PROGRAM.

PATENT ENFORCEMENT

1) THE FIRELOCK MODULAR VAULT PANEL SYSTEM IS A PATENTED SYSTEM AND IS PROTECTED UNDER UNITED STATES OF AMERICA PATENT LAW. PATENT #4744186. ANY USE OF THIS SYSTEM OR ITS DESIGN ELEMENTS IS EXPRESSLY PROHIBITED.

ALTERATION

NO.	ZONE	DATE	REMARKS	DR.	CHKD.

TITLE: FIRELOCK CL 125-4HR /350-4HR GENERAL ARRANGEMENT DRAWING

CUSTOMER: PLYMOUTH TOWN HALL - PHASE 2 BASEMENT VAULT, PLYMOUTH, MA

SCALE: AS NOTED

DRVN. BY: L. C. L. DATE: 9/18/2015

CHKD. BY: H. W. S. DATE: 9/18/2015

APPD. BY:

SHEET NUMBER 2 OF 2

DRWG. NO. 2015-1

FIRELOCK Data Protection Systems
KUTZTOWN, PENNSYLVANIA
(610)-756-4440