

Project # 13-0184 **Date:** May 6, 2015

Project: Department of Veterans Affairs
Saginaw, Michigan **A/E Firm:** C2AE
Aleda E. Lutz Medical Center
SPS & Logistics Storage Area Renovation **Project Manager:** Kelly Jo Homic

Owner: Department of Veterans Affairs
VA Medical Center CSC Michigan (90C)
1500 Weiss Street
Saginaw, Michigan 48602

The following changes, revisions, modifications, etc. shall be incorporated into the contract documents, specifications, and plans.

SPECIFICATIONS

A1.1 Refer to Table Of Contents

Remove section 23 22 23 Steam Condensate Pumps 02-10 from the table of contents.

A1.2 Refer to Section 018111 – Sustainable Design Requirements (not reissued), paragraph 1.5.A.19

Revise entire paragraph to read:

Gypsum Wall Board: Provide manufacturer's cut sheets or product data verifying the moisture and mold-resistant properties of the gypsum wallboard products as specified.

A1.3 Refer to Section 087100 – Door Hardware (not reissued), Hardware Schedule

ADD the following door hardware set:

Set: 13

Doors: 1-B363.1

6	Hinge	A8112 4-1/2" x 4-1/2"	652
1	Storeroom Lock	ANSI F07	626
1	Mortise Cylinder	FINAL CORE BY OWNER	626
1	Set Manual Flush Bolts	L04251	626
2	Door Closer	CO2061	689
1	Coordinator	TYPE 21A	
2	Armor Plate	J101 - 34" x 2" LDW x B3E	630
1	Astragal		

A1.4 Refer to Section 237300 – Indoor Central Station Air Handling Units (not reissued), paragraph 2.1.3

ADD the following sentence to the end of paragraph 2.1.A.3:

"Shipping sections shall be no larger than 3'-9" to accommodate the sections fitting through the mechanical room door."

DRAWINGS

A1.5 Refer to Sheet AD-100 (reissued):

- REVISE Demo Plan to include demolition of existing door into Mechanical Room B363 as shown

A1.6 Refer to Sheet A-100 (reissued):

- REVISE Floor Plan to include new pair of doors into Mechanical Room B363 as shown.

A1.7 Refer to Sheet A-600 (reissued):

- ADD door 1-B363.1 to Door and Frame Schedule

A1.8 Refer to Sheet PD-100 (reissued):

- REVISE Keynote 3 to read, "Contractor shall remove existing sanitary riser to just below first floor."
- ADD Keynote 9 to read, "Contractor shall remove existing storm riser to just below first floor."

A1.9 Refer to Sheet P-100 (reissued):

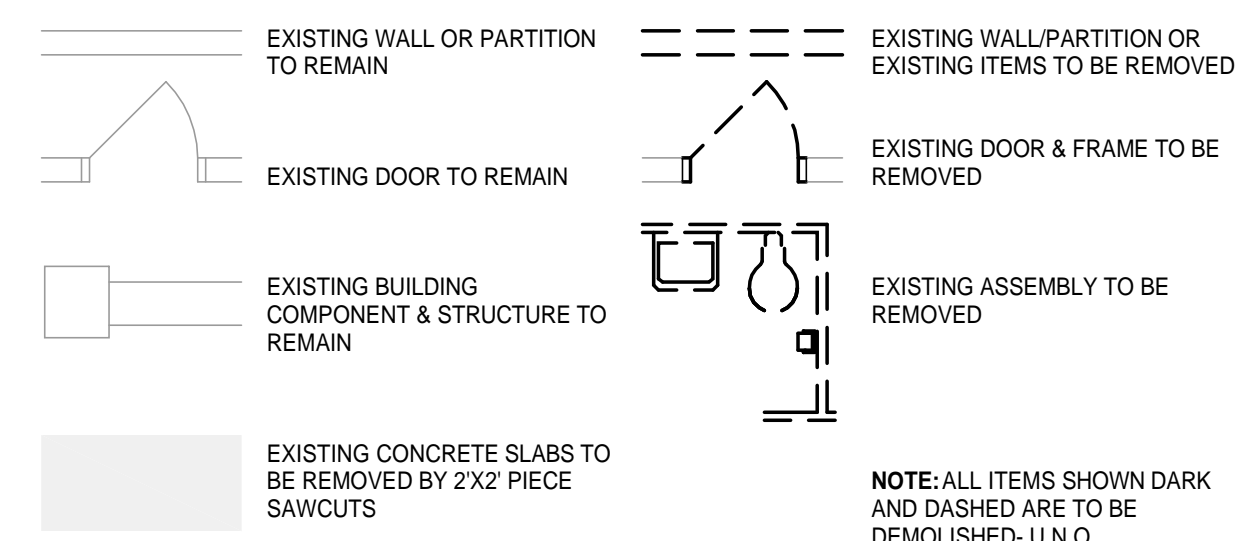
- ADD Keynote 12 to read, "Connect new storm riser to existing storm riser in basement ceiling space."
- ADD Keynote 13 to read, "Connect new sanitary riser to existing sanitary riser in basement ceiling space."

A1.10 Refer to Sheet M-500, Detail 1 (reissued):

- ADD the following note: "Note: Unit shall be shipped in splits where the shipping sections can fit through a 3'-10" opening."

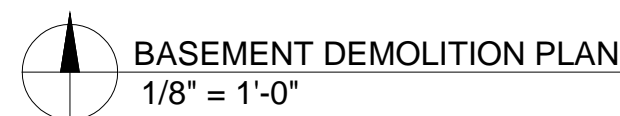
A1.11 Refer to Sheet ES-110 (reissued):

- REVISE Basement Special Systems Plan to show locations of Access Control Door Controller boxes mounted above ceiling.
- ADD Special Systems Keynote 12 as shown on drawing.
- ADD Note 4 to both Detail 2 and Detail 4 as shown on drawing.
- REVISE Detail 3 as shown on drawing.



- 1 REMOVE EXISTING WALL, BASE TRIM, ALL ATTACHEDEMBEDDED ITEMS, AND ALL OTHER ASSOCIATED WALL MATERIALS FROM FLOOR TO DECK ABOVE. PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
- 2 REMOVE EXISTING CONCRETE FLOOR. REFER TO STRUCTURAL FOR MORE INFORMATION.
- 3 REMOVE EXISTING TOILET ROOM ACCESSORIES INCLUDING LOCKERS.
- 4 REMOVE EXISTING CEILING INCLUDING ALL BRACKETS, ANCHORS, SUPPORTS AND ACCESSORIES MECHANICAL AND ELECTRICAL. PATCH AND REPAIR ADJACENT SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES. PROVIDE NEW CEILING TIES FOR ANY ADJACENT TIES THAT ARE TO REMAIN, THAT ARE DAMAGED DURING DEMOLITION.
- 5 REMOVE EXISTING FINISH FLOOR MATERIALS AND ADHESIVE/MORTAR AS REQUIRED FOR PROPER INSTALLATION OF NEW FLOOR FINISH. PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
- 6 REMOVE EXISTING WALL BASE AND ADHESIVE OR MORTAR AS REQUIRED FOR PROPER INSTALLATION OF NEW BASE MATERIAL. PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
- 7 REMOVE EXISTING MILL/WORK AND/OR WALL MOUNTED SHELVING INCLUDING ANY ASSOCIATED BRACING SUPPORTS, BRACKETS, AND ANCHORS AS NECESSARY FOR INSTALLATION OF NEW FINISH OR CASEWORK. PATCH AND REPAIR ADJACENT WALL SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES OR CASEWORK ETC.
- 8 REMOVE EXISTING DOOR ASSEMBLY INCLUDING DOOR(S), SLEDGINGS, GROUT, FILLED FRAMES, THRESHOLD, HARDWARE ANCHORS AND TRIM (ON BOTH SIDES OF DOOR). PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
- 9 REMOVE EXISTING PLUMBING FIXTURES AND ANY ASSOCIATED PIPING AND ANCHORS AS NECESSARY FOR INSTALLATION OF NEW STRUCTURE OF NEW FINISHES. COORDINATE WITH PLUMBING DRAWINGS. PATCH AND REPAIR ADJACENT SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
- 10 REMOVE EXISTING WINDOW INCLUDING FRAME, SILL, APRON, AND ALL HARDWARE ASSOCIATED WITH EXISTING WINDOW.
- 11 REMOVE EXISTING CONCRETE RAMP. REFER TO STRUCTURAL FOR MORE INFORMATION.
- 12 REMOVE EXISTING WALL FURRING, BASE TRIM, ALL ATTACHEDEMBEDDED ITEMS, AND ALL OTHER ASSOCIATED WALL MATERIALS FROM FLOOR TO DECK ABOVE. PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
- 13 REMOVE EXISTING PRE-CAST CONCRETE SLAB. REFER TO STRUCTURAL FOR MORE INFORMATION.
- 14 REMOVE EXISTING GYP. BOARD TO STUD. BASE TRIM, ALL ATTACHEDEMBEDDED ITEMS, AND ALL OTHER ASSOCIATED WALL MATERIALS FROM FLOOR TO DECK ABOVE. PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
- 15 REMOVE EXISTING DOOR, FRAME TO REMAIN. PREP FRAME FOR NEW DOOR TO SWING. PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.
- 16 REMOVE EXISTING DOOR, FRAME TO REMAIN. PREP FRAME FOR NEW DOOR TO SWING. PATCH AND REPAIR ADJACENT WALL/FLOOR SURFACES AT AREAS OF REMOVAL TO MATCH EXISTING AND/OR AS REQUIRED FOR PROPER INSTALLATION OF NEW FINISHES.

1. ALL OF THE FOLLOWING NOTES APPLY TO THE ENTIRE BUILDING INCLUDING ALL AREAS, INTERIOR AND EXTERIOR, AFFECTED BY CONSTRUCTION AND ARE NOT LIMITED TO THE FLOOR PLAN SHOWN ON THIS SHEET.
2. ALL EXISTING LOOSE MATERIALS, FURNITURE, PORTABLE ELECTRICITY, AND OTHER ITEMS NOT TO BE DEMOLISHED BY THE OWNER WILL BE MOVED PRIOR TO DEMOLITION. ANY ITEMS LEFT IN DEMOLITION AREAS WILL BECOME THE PROPERTY OF DEMOLITION CONTRACTOR FOR DISPOSAL AT THE DEMOLITION SITE AT THE CONTRACTOR'S EXPENSE. CONSTRUCTION MANAGER TO COORDINATE DEMOLITION WORK WITH OWNER AND CONTRACTOR TO RETURN TO SITE.
3. REFER TO ALL ARCHITECTURAL, STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR DIMENSIONS AND SPECIFICATION SECTION 01700 (EXECUTION REQUIREMENTS) FOR OTHER DEMOLITION NOTES AND INFORMATION.
4. NOTICE AND PROTECT ALL EXISTING UTILITIES IN MAIN.
5. THE CONTRACTOR SHALL FIELD VERIFY EXACT DIMENSIONS AND CONDITIONS IN FIELD PRIOR TO START OF WORK.
6. ALL EXISTING DEMOLITION AREAS TO BE SHOWN IN DRAWINGS AND ARE SHOWN TO ASSIST THE BIDDERS ONLY. CONTRACTOR AND SUBCONTRACTORS SHALL VISIT THE SITE PRIOR TO SUBMITTING CONSTRUCTION PROPOSAL TO IDENTIFY ANY DISCREPANCIES. NOTIFY ARCHITECT IMMEDIATELY OF DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
7. ALL EXISTING DISTURBED SURFACES INCLUDING EXPOSED WALLS WHERE ITEMS WERE ATTACHED OR IMBEDDED ARE, TO BE PATCHED TO MATCH ADJACENT FINISHES IN A LIKE-NEW CONDITION TO MATCH ADJACENT FINISHES.
8. ALL EXISTING ATTACHED ITEMS (WALL, GARDENS, SWITCHES, ETC.) ARE TO BE REMOVED TO MATCH ADJACENT FINISHES TO BE REINSTALLED BY CONTRACTOR UPON COMPLETION OF FINISHING WORK.
9. ALL CABLES, CONDUCTORS AND FEEDERS TO ALL ELECTRICAL LOADS BEING DEMOLISHED ARE TO BE REMOVED BACK TO THEIR SOURCE IN ACCORDANCE WITH THE N.E.C. THIS IS TO INCLUDE ALL ELECTRICAL WORKING AND REMOVAL OF ALL ELECTRICAL ITEMS. COORDINATE WITH PLUMBING AND MECH. GAS CONTRACTORS IN REMOVAL OF ALL SIMILAR CONDUITS AND PIPING. COORDINATE WITH CONDUCTORS AND MECH. GAS PIPING IN AREA AFFECTED BY THE WORK. REFER ALSO TO PLUMBING DEMO DRAWINGS.
10. THE CONTRACTOR SHALL COORDINATE WITH PLUMBING IN CONNECTION WITH THE NEW WORK AND THE DEMOLITION WORK IN THE DRAWINGS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATIONS OF THE FLOORS, WALLS, AND CEILINGS FOR NEW FINISHES.
12. REFERENCE FLOOR PLAN FOR DIMENSIONS AND OTHER INFORMATION NOT SHOWN HERE.
13. REMOVE ADHESIVE/OR MORTAR LEFT FROM THE REMOVAL OF FLOOR COVERINGS AND PREP FLOOR W/ CONCRETE (OR FLORSTONE) AS NECESSARY TO ACCOMMODATE NEW FLOOR COVERINGS.
14. UNO. PATCH AND PREPARE FLOOR W/ CONCRETE (OR FLORSTONE) FLUSH WITH ADJACENT FLOOR SURFACE. FILL ANY SLOPING OR CRACKS WITH FLOORS FILLER TO MATCH FLOOR ELEVATION TO ACCOMMODATE NEW FLOOR COVERINGS.
15. FILL IN EXISTING CHASE OPENINGS, PENETRATIONS IN THE FLOOR AND CEILING LEAVING SURFACES TO MATCH EXISTING SURFACES TO MATCH EXISTING. REFER TO DRAWINGS FOR DETAILS.
16. WHEN REMOVING DEBRIS FROM CONSTRUCTION AREA WIPE OFF ALL EXISTING LEAVE SURFACES TO MATCH EXISTING SURFACES TO RAGS OVER DUMPSSTER TO REDUCE DUST.
17. THE OWNER RESUMES THE RIGHT TO HALT CONSTRUCTION OF ANY WORK THAT CAUSES EXCESS VIBRATION WHICH MIGHT EFFECT THE OWNER'S ONGOING USE OF THE FACILITY.
18. CONTRACTOR SHALL REMOVE ALL EXISTING MATERIALS TO MATCH FINISHES AT FLOOR BELOW AND ABOVE WHERE WORK IMPACTS EXISTING ASSEMBLIES. FINISH-PUT SURFACES TO MATCH EXISTING.
19. SEE DRAWING G-500 (TYP.) TEST-PROOF CONSTRUCTION PARTITION FOR DETAILS OF TEMPORARY CONSTRUCTION PARTITION.
20. ALL EXISTING MATERIALS (ACM) IN ACCESSIBLE AREAS HAVE BEEN REMOVED DURING PREVIOUS ABATEMENT/RENOVATION PROJECTS. WORKING AREAS, AND AREAS TO BE DEMOLISHED ARE TO BE COVERED IN SPACES. ANY DISTURBANCE, REMOVAL, OR DEMOLITION OF ACM SHALL BE CONDUCTED IN ACCORDANCE WITH APPLICABLE VA, FEDERAL, AND STATE REGULATIONS. ANY DISTURBANCE OF ACM SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE VA, FEDERAL, AND STATE REGULATIONS. ANY DISTURBANCE OF ACM SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE WRITTEN SITE SPECIFIC HEALTH AND SAFETY PLAN AS COORDINATION WITH THE VA COR.
21. ALL LEAD ASBESTOS REMOVAL SHALL BE IN ACCORDANCE WITH VA COR.
22. VA RECORDS INDICATE MINOR AREAS OF LEAD BASED PAINT (LBP), ALL LOOSE AND FLAKING PAINT MUST BE REMOVED PRIOR TO REMOVAL OF DISTURBED SURFACES. ALL SURFACES TO BE COVERED WITH LBP IS PROHIBITED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ENVIRONMENTAL SAFETY AND HEALTH MEASURES TO PREVENT EXPOSURE TO LBP. ALL SURFACES TO BE COVERED WITH LBP INCLUDING WELDING, CUTTING AND DEMOLITION. THE REQUIREMENT FOR THE HANDLING, USE, REMOVAL AND DISPOSAL OF LBP SHALL BE IN ACCORDANCE WITH APPLICABLE VA SPECIFICATIONS AND ALL FEDERAL AND FEDERAL REGULATIONS.
23. NO COMBUSTION ENGINE EQUIPMENT TO BE USED INDOORS.



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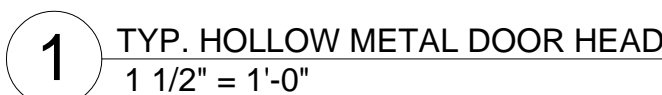
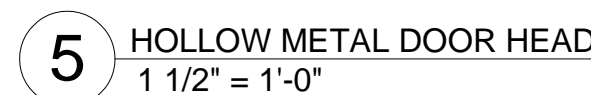
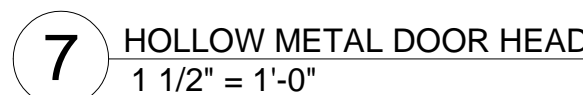
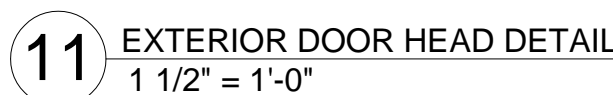
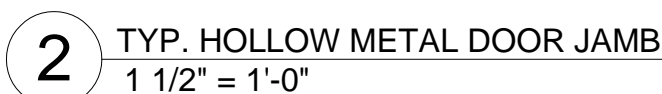
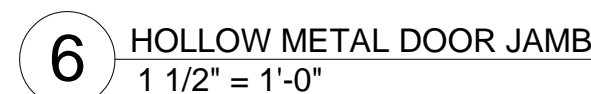
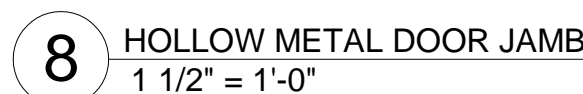
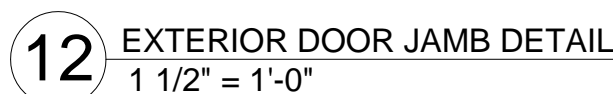
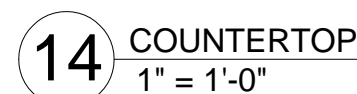
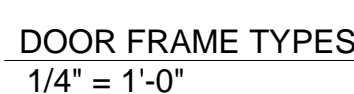
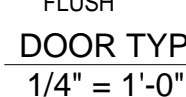
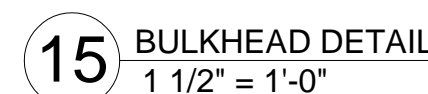
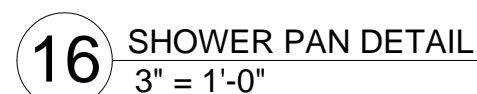
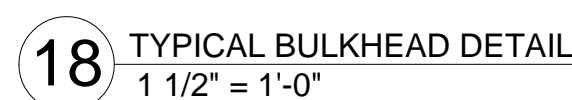
 Department of
Veterans Affairs

DOOR & FRAME GENERAL NOTES

1. ALL EXTERIOR DOORS ARE TO HAVE WEATHER-STRIPPING.
2. ALL FIRE RATED AND SMOKE-TIGHT DOORS TO HAVE CLOSERS.
3. ALL DOOR AND WINDOW FRAMES SHALL HAVE SEALANT & BACKER ROYAL.
4. REFER TO COMMERCE SPECIFICATIONS FOR FRAME FINISHES.
5. REFERENCE SHEET A-601 FOR FVP, INTERIOR DOOR HEAD AND JAMB DETAILS.
6. SEE SPECIFICATIONS FOR HARDWARE SETS.
7. ALL DOOR AND WINDOW FRAMES TO BE OPENING SIZES.
8. ALL HOLLOW METAL FRAMES TO BE 2" PROFILE, U.N.O.
9. REFERENCE SHEET A-602 FOR FRAME TYPES.
10. MAINTAIN 1/4" GUTTERS BETWEEN INTERIOR (JAMB SIDE) EDGE OF ALL DOOR JAMB FRAMES AND NEAREST ADJACENT WALL, WINDOW, FUTURE, ETC.
11. ALL INTERIOR DOORS & WINDOWS TO BE 1/4" GLAZING, UNLESS OTHERWISE NOTED.
12. STYLES & DIMENSIONS FOR DOOR TYPES & LITES ARE REFLECTING DESIGN INTENT, DOOR MANUFACTURER TO SUBMIT THEIR STANDARD TYPES, UNITS, OR P.S. FOR REVIEW.
13. ST = SMOKE-TIGHT PER GLASS TO RESIST THE PASSAGE OF SMOKE.
14. T = TEMPERED GLASS
15. HW = HOLLOW METAL
16. SCW = SOLID WOOD CORE
17. VERIFY IF FIELD EXISTING FRAMES SCHEDULED FOR USE IN RATED WALLS ARE RATED TO WITHSTAND THE LOADS AND MOVEMENTS WHEN REQUIRED.

THE FOLLOWING ALTERNATES ARE INCLUDED ON THIS SHEET
DEDUCTIVE ALTERNATE NO. 4 - LAMINATE-CLAD CASEWORK, SOLID SURFACE
COUNTERTOPS & PHENOLIC LOCKERS
DEDUCTIVE ALTERNATE NO. 6 - INTERIOR FINISHES

REFER TO SHEET G-001 AND SPECIFICATIONS FOR MORE INFORMATION

CONSULTANTS:

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Approved: Division Chief

Building Number

Checked

Project 1
655-13-100

Drawing

A-60C

Department of
Veterans Affairs

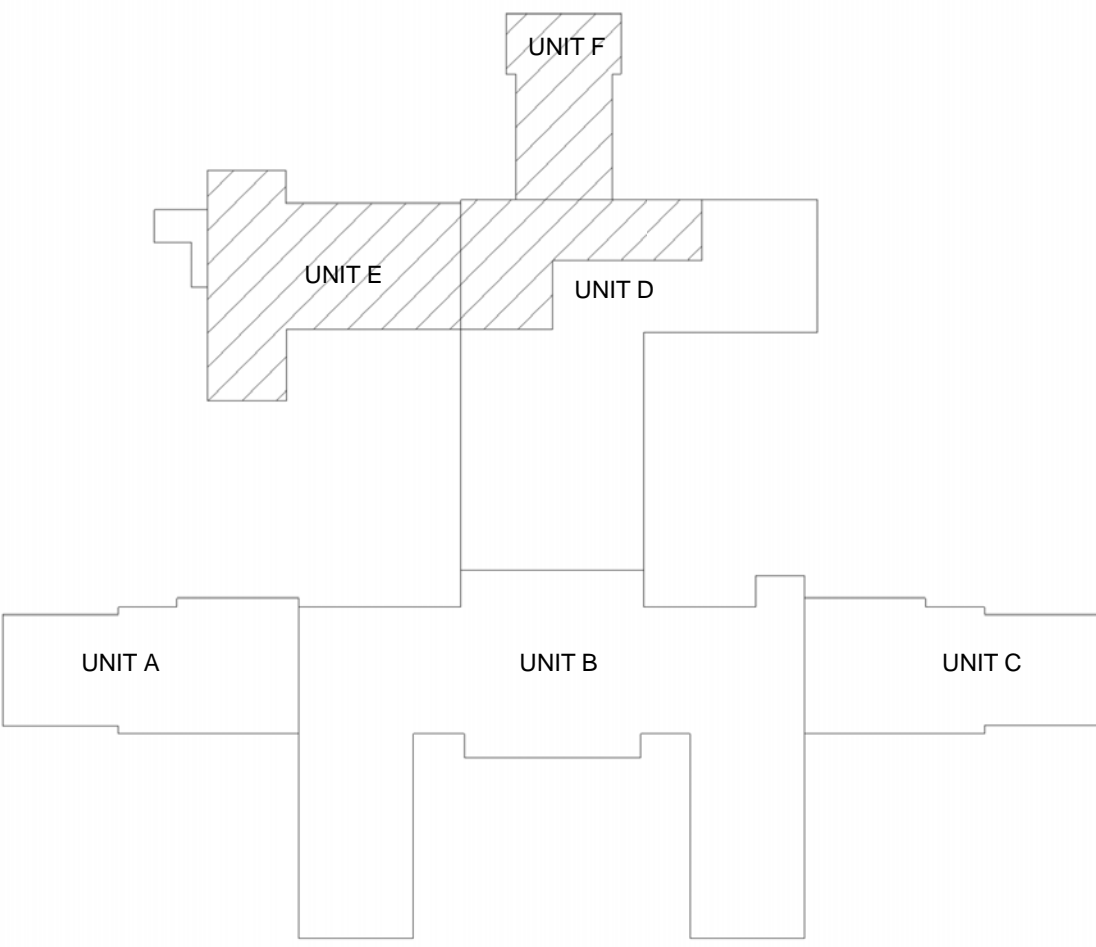
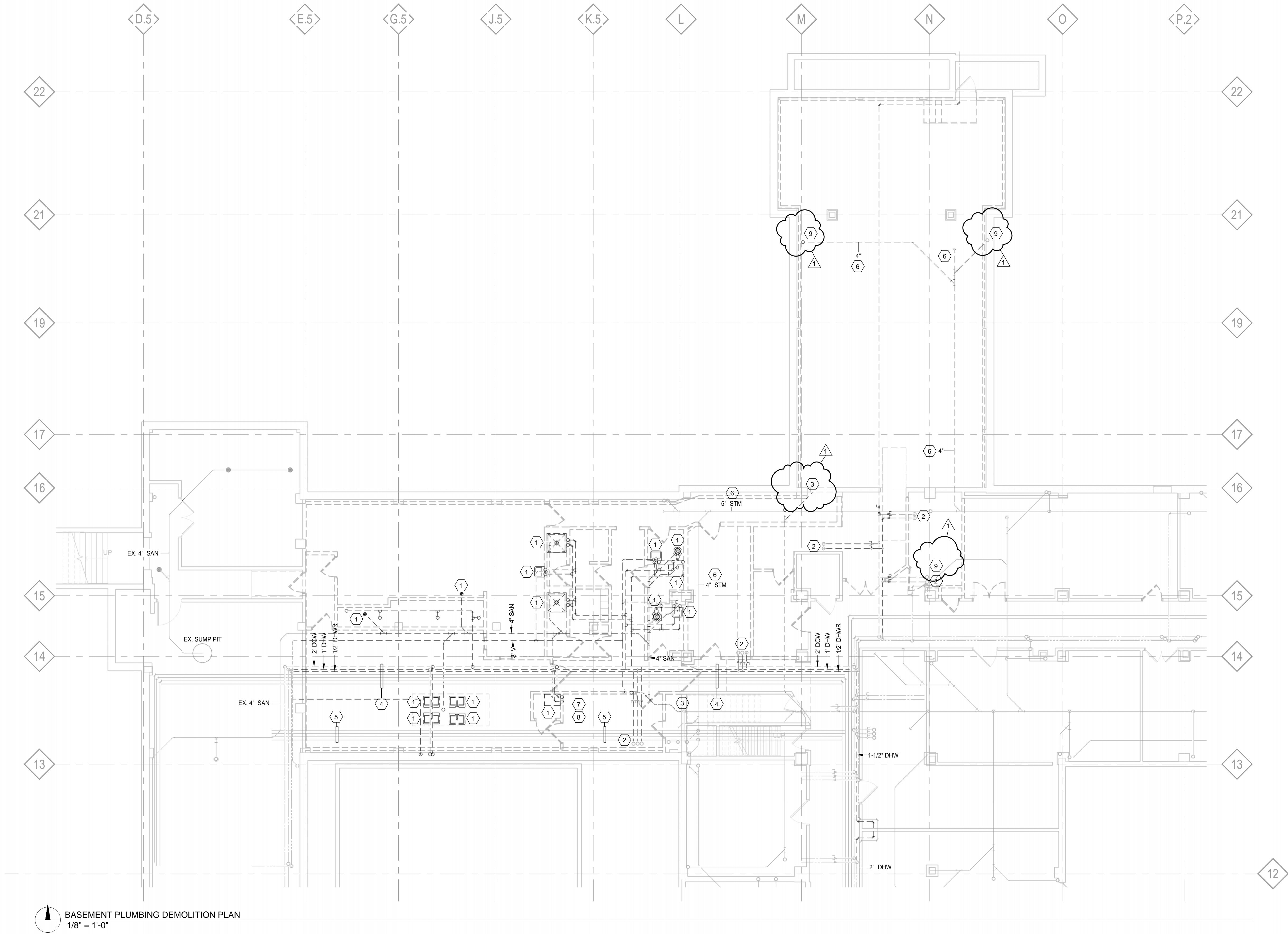
PLUMBING DEMOLITION GENERAL NOTES:

CONTRACTOR IS RESPONSIBLE TO VERIFY THE LOCATION OF ALL EXISTING SYSTEMS AND TO VERIFY AND CONFIRM WITH THE VA ANY AND ALL SYSTEMS WHICH ARE INACTIVE AND HAVE BEEN ABANDONED IN PLACE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ALL INACTIVE SYSTEMS FROM WITHIN THE BOUNDARIES OF THE AREA OF WORK. PROVIDE A COST PER LINEAR FOOT FOR REMOVING PIPING SYSTEMS THAT MAY NOT BE SHOWN ON THE DRAWINGS.

1. REPRESENTATION OF EXISTING SYSTEMS AND PIPING ARE BASED ON EXISTING DRAWINGS AND FIELD OBSERVATION. CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZES OF ALL EXISTING FIXTURES AND PIPING. CONTRACTOR SHALL FIELD VERIFY SCOPE OF DEMOLITION AND ALL POINTS OF CONNECTION.
2. REFER TO NEW WORK PLANS FOR LOCATIONS OF NEW PLUMBING FIXTURES.
3. PLUMBING FIXTURES AND PIPING SHOWN IN DASHED LINES ARE TO BE REMOVED UNLESS NOTED OTHERWISE. REMOVE PIPING TO EXTENTS SHOWN.
4. ALL DOMESTIC WATER RISERS ARE TO REMAIN. REFER TO NEW PLUMBING PLAN FOR NEW CONNECTIONS.

PLUMBING DEMOLITION KEY NOTES:

- 1 REMOVE PLUMBING FIXTURE.
- 2 LOWER EXISTING WATER RISERS TO FIRST FLOOR TO REMAIN.
- 3 CONTRACTOR SHALL REMOVE EXISTING SANITARY RISER TO JUST BELOW FIRST FLOOR.
- 4 EXISTING SANITARY RISER AND DRAINAGE TO BE REMOVED. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING COMPRESSED AIR PIPING, VACUUM PIPING, AND NO2 PIPING. VERIFY AND CONFIRM WITH VA IF SYSTEMS ARE STILL ACTIVE. IF SYSTEMS ARE NO LONGER ACTIVE THEN CONTRACTOR IS TO REMOVE THEM FROM THE AREA OF WORK. IF SYSTEMS ARE ACTIVE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE AS NEEDED FOR INSTALLATION OF NEW SYSTEMS. INCLUDE COST FOR REMOVING AND RELOCATING SYSTEMS IN FINAL BID PRICE.
- 5 CONTRACTOR TO VERIFY LOCATION OF EXISTING PIPING. VERIFY AND CONFIRM WITH VA IF SYSTEMS ARE STILL ACTIVE. IF SYSTEMS ARE NO LONGER ACTIVE THEN CONTRACTOR IS TO REMOVE THEM FROM THE AREA OF WORK. IF SYSTEMS ARE ACTIVE IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE AS NEEDED FOR INSTALLATION OF NEW SYSTEMS. INCLUDE COST FOR REMOVING AND RELOCATING SYSTEMS IN FINAL BID PRICE.
- 6 CONTRACTOR SHALL LOWER EXISTING STORM PIPING FOR INSTALLATION OF NEW FLOOR SLAB.
- 7 CONTRACTOR SHALL REMOVE EXISTING WATER TREATMENT EQUIPMENT AND ASSOCIATED PIPING IN ITS ENTIRETY.
- 8 CONTRACTOR SHALL REMOVE EXISTING WATER TREATMENT EQUIPMENT AND ASSOCIATED PIPING IN ITS ENTIRETY.
- 9 CONTRACTOR SHALL REMOVE EXISTING STORM RISER TO JUST BELOW FIRST FLOOR.



KEY PLAN

1 ADDENDUM 1	5-8-2014
2	
3	
4	
5	
Revisions:	Date

CONSULTANTS:



Department of Veterans Affairs
Aleda E Lutz Medical Center
1500 Weiss Street
Saginaw, MI 48602

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File Location

Drawing Title
BASEMENT PLUMBING DEMOLITION PLAN

Approved: Division Chief
Approved: Service Director

Project Title
SPS & LOGISTICS STORAGE AREA RENOVATION

Building Number 1
Location 1500 WEISS ST. SAGINAW, MI 48602

Date 12-8-2014
Project Number 655-13-103

Drawing Number PD-100

Office of Facilities Management



ALTERNATES

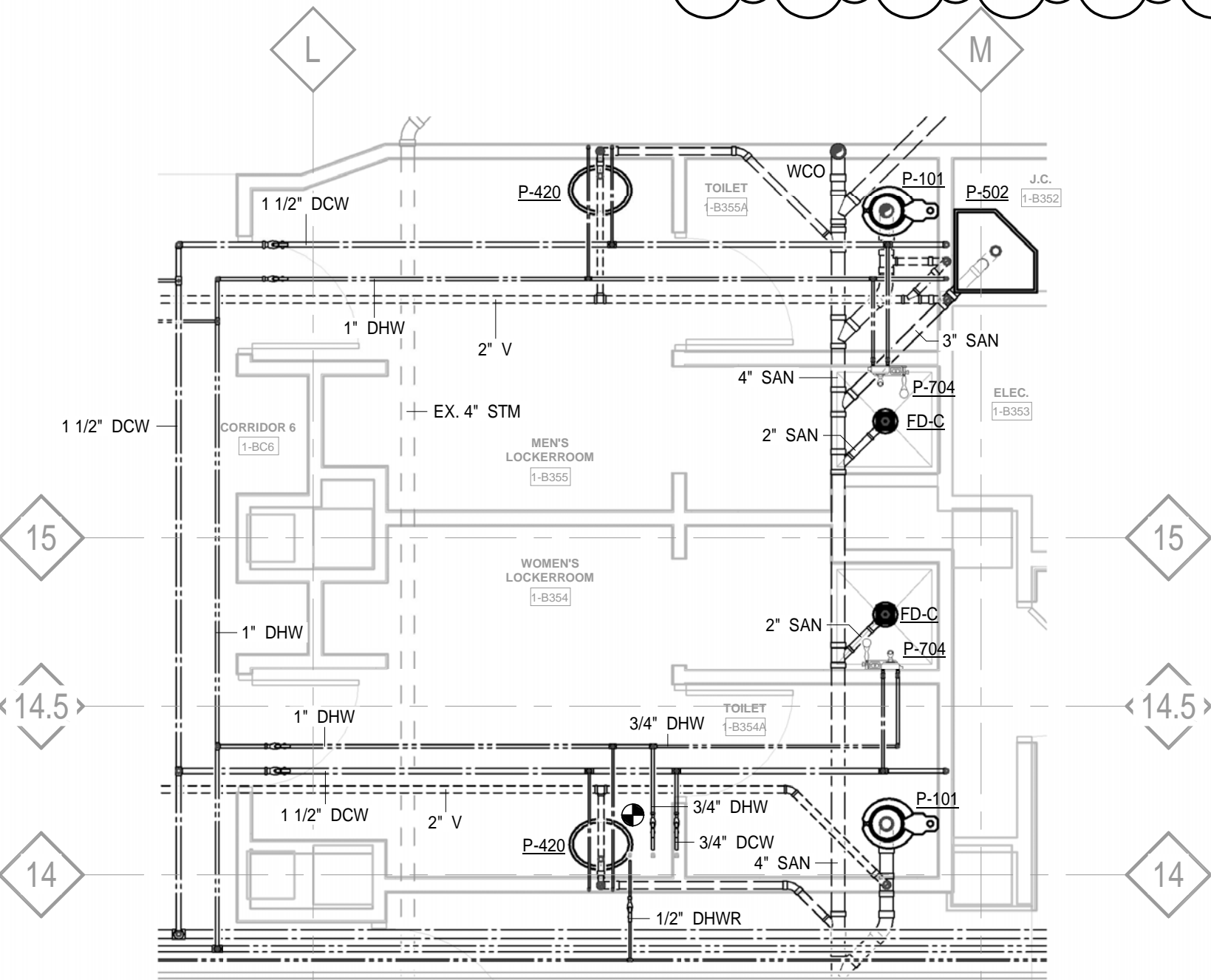
THE FOLLOWING ALTERNATES ARE INCLUDED ON THIS SHEET
DEDUCTIVE ALTERNATE NO. 3 - STAINLESS STEEL CASEWORK AND SINK
REFER TO SHEET G-001 AND SPECIFICATIONS FOR MORE INFORMATION

PLUMBING GENERAL NOTES:

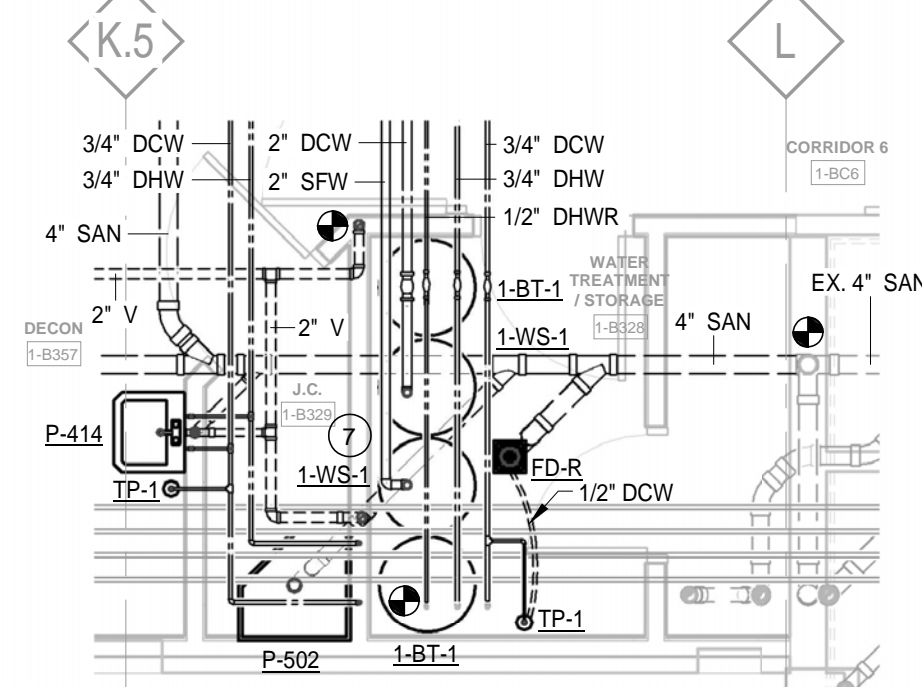
CONTRACTOR IS RESPONSIBLE TO VERIFY THE LOCATION OF ALL EXISTING SYSTEMS AND TO VERIFY AND CONFIRM WITH THE VA ANY AND ALL SYSTEMS WHICH ARE INACTIVE AND HAVE BEEN ABANDONED IN PLACE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO RELOCATE ALL EXISTING ACTIVE SYSTEMS NECESSARY FOR THE INSTALLATION OF ALL NEW SYSTEMS. PROVIDE A COST PER LINEAR FOOT FOR RELOCATING PIPING SYSTEMS THAT MAY NOT BE SHOWN ON THE DRAWINGS.

PLUMBING KEY NOTES:

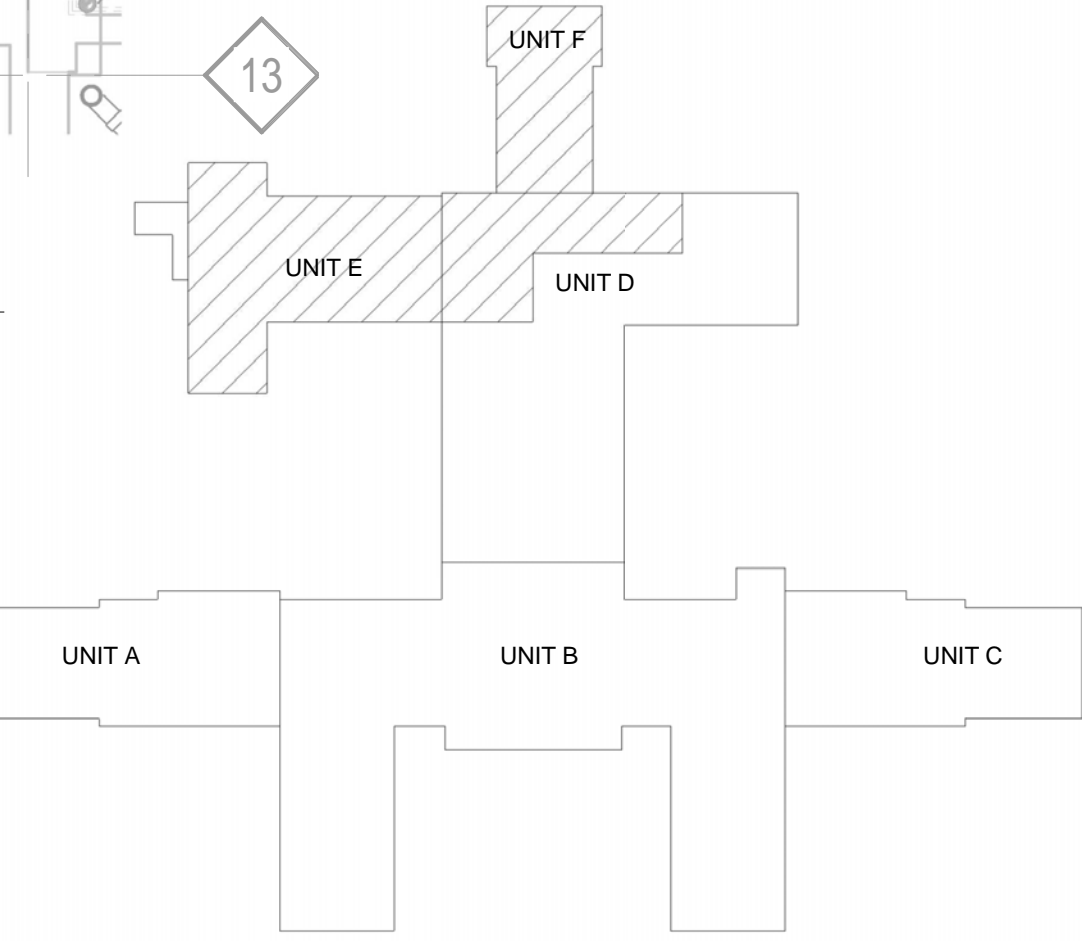
- 1" DCW, 1" DHW, 1" ROW, AND 1/4" CA DOWN TO EQUIPMENT WASHER. PROVIDE WATER LINES WITH SHUT-OFF VALVE AND BACKFLOW PREVENTER. REFER TO SPECIFICATIONS FOR TYPE. CONNECTIONS ARE TO BE MADE PER MANUFACTURER'S REQUIREMENTS.
- 1-1/4" DCW, 1-1/4" DHW, AND 1/2" CA DOWN TO AUTOMATIC CART WASHER. PROVIDE WATER LINES WITH SHUT-OFF VALVE AND BACKFLOW PREVENTER. REFER TO SPECIFICATIONS FOR TYPE. CONNECTIONS ARE TO BE MADE PER MANUFACTURER'S REQUIREMENTS.
- 1" SFV DOWN TO STERILIZER. PROVIDE WITH SHUT-OFF VALVE. CONNECTIONS ARE TO BE MADE PER MANUFACTURER'S REQUIREMENTS.
- 3/4" ROW DOWN TO PURIFIED WATER FAUCET OF DECON SINK.
- 3/4" ROW DOWN TO ULTRASONIC CLEANER.
- 1/4" CA DOWN TO WALL MOUNTED CONNECTION BRACKET AND HOSE.
- 2" DCW TO WATER SOFTENER SYSTEM. SYSTEM SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. REFER TO DETAIL 1P-600 AND SPECIFICATIONS.
- 3/4" DCW DOWN TO STEAM GENERATOR AND WATER TEMPERING DEVICE.
- 2" SFV TO PACKAGED REVERSE OSMOSIS SYSTEM. SYSTEM SHALL BE PROVIDED AND INSTALLED BY CONTRACTOR. REFER TO DETAIL 1P-600 AND SPECIFICATIONS.
- SAWCUT FLOOR FOR NEW 4" SANITARY. CONNECT TO EXISTING.
- CONNECT 1/2" DCW TO EXISTING DCW MAIN.
- CONNECT NEW STORM RISER TO EXISTING STORM RISER IN BASEMENT CEILING SPACE.
- CONNECT NEW SANITARY RISER TO EXISTING SANITARY RISER IN BASEMENT CEILING SPACE.



1 ENLARGED LOCKER ROOM PLUMBING PLAN
1/4" = 1'-0"



2 ENLARGED WATER TREATMENT PLUMBING PLAN
1/4" = 1'-0"



KEY PLAN

1	ADDENDUM 1	5-8-2014
2		
3		
4		
5		
Revisions:		Date

CONSULTANTS:



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Drawing Title
BASEMENT PLUMBING PLAN

Approved: Division Chief
Approved: Service Director

Project Title
SPS & LOGISTICS STORAGE
AREA RENOVATION

Building Number
1
Location
1500 WEISS ST. SAGINAW, MI 48602

Checked
EJR
Drawn
JCW

Date
12-8-2014
Project Number
655-13-103

Drawing Number
P-100

Office of
Facilities
Management



Department of
Veterans Affairs

A
three inches = one foot

1
one and one half inches = one foot

2
one inch = one foot

3
three quarters inch = one foot

4
one half inch = one foot

5
three eighths inch = one foot

6
one quarter inch = one foot

7
one eighth inch = one foot

8
three sixteenths inch = one foot

9
one thirty second inch = one foot

10
one sixty fourth inch = one foot

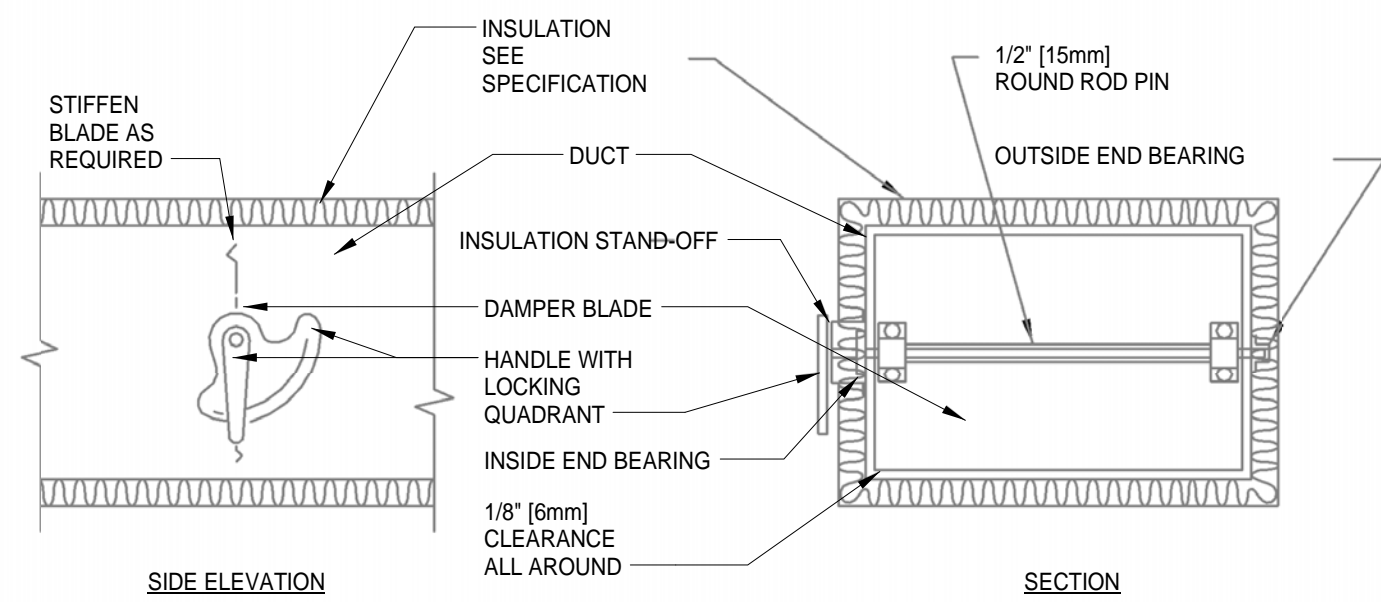
11
one one hundred twenty eighth inch = one foot

12
one two hundred fifty sixth inch = one foot

13
one five hundred twelfth inch = one foot

14
one one thousand two hundred fourth inch = one foot

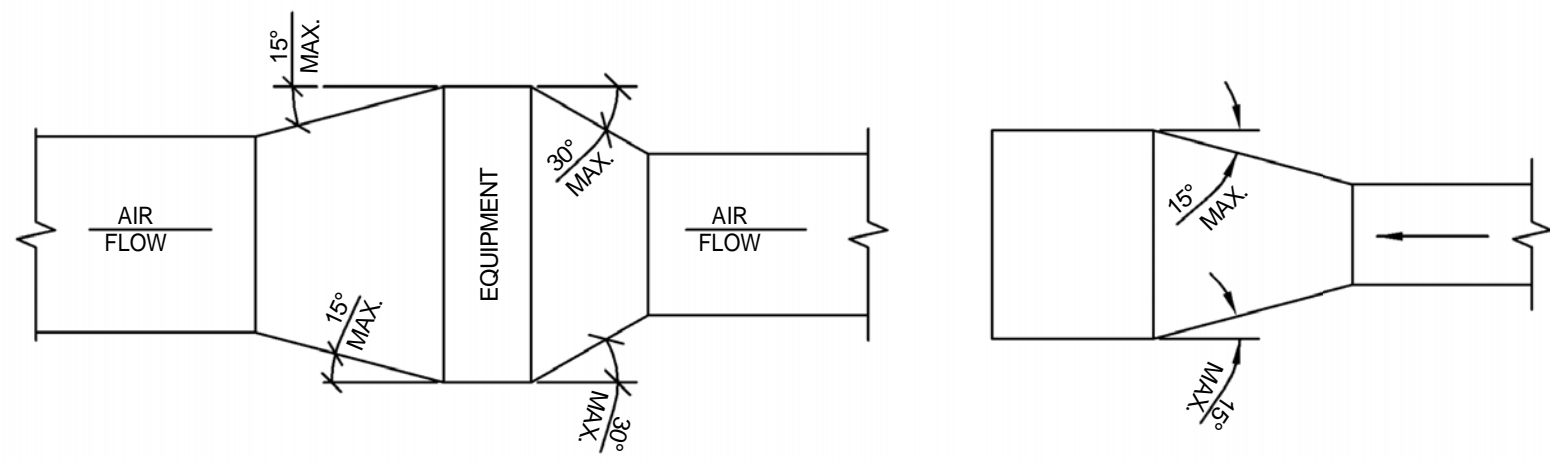
15
one two thousand four hundred eighth inch = one foot



NOTE:

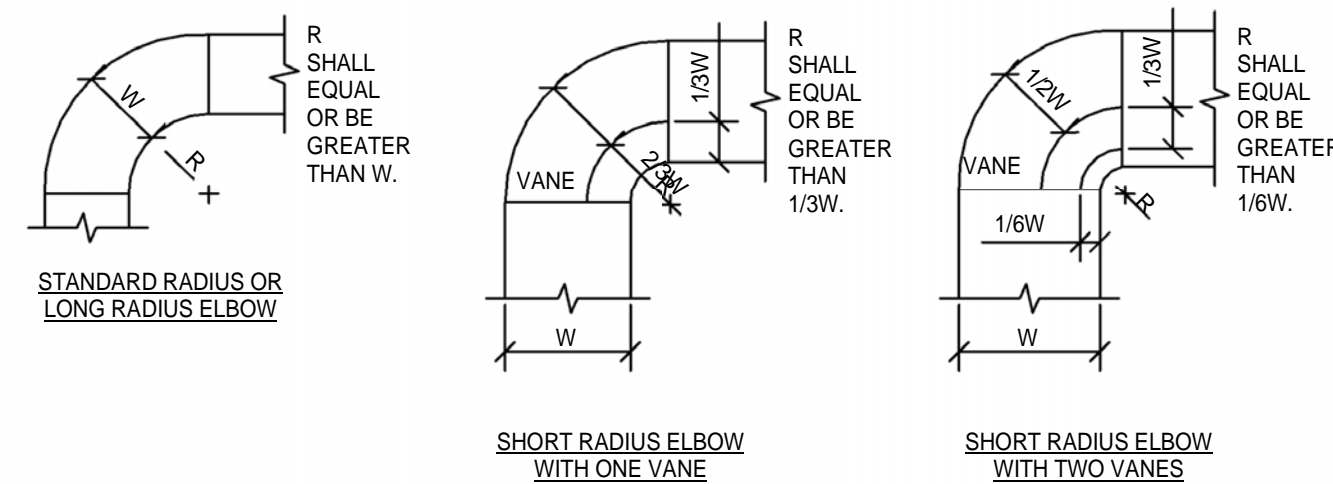
- DELETE INSULATION STAND-OFF ON DUCTWORK WITHOUT EXTERIOR INSULATION.
- DETAIL SHOWS SINGLE BLADE DAMPER. DAMPER INSTALLATION SHALL BE SIMILAR FOR MULTI-BLADE DAMPERS & ROUND DAMPERS.

11 VOLUME DAMPER DETAIL
N.T.S.



NOTE:
UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

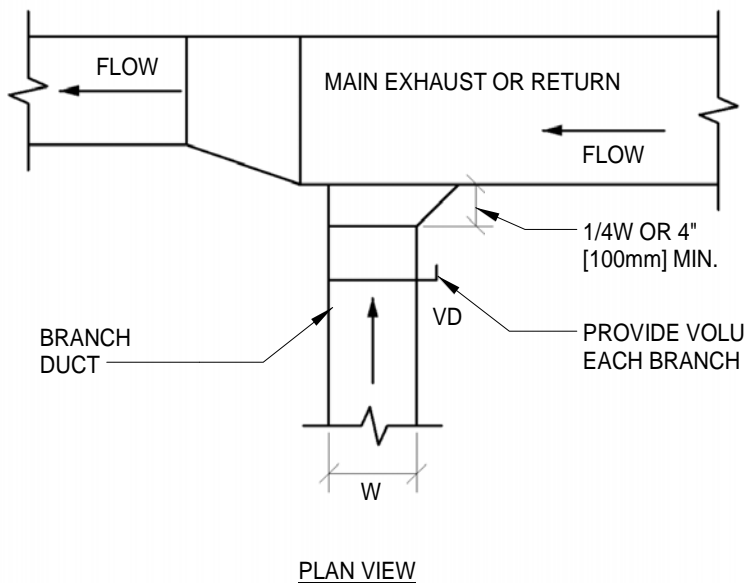
12 DUCTWORK TRANSITIONS (WITH EQUIPMENT MOUNTED IN DUCT)
N.T.S.



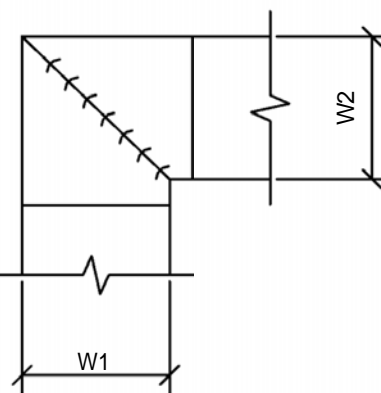
NOTE:

- THE INTERIOR SURFACE OF ALL RADIUS ELBOWS SHALL BE MADE ROUND.
- ALL STANDARD RADIUS ELBOWS CAN BE SUBSTITUTED WITH SHORT RADIUS ELBOWS. ALL SHORT RADIUS ELBOWS SHALL HAVE VANES. VANES SHALL BE CONSTRUCTED, SUPPORTED AND FASTENED AS RECOMMENDED BY SMACNA.

13 DUCTWORK RADIUS ELBOWS
N.T.S.



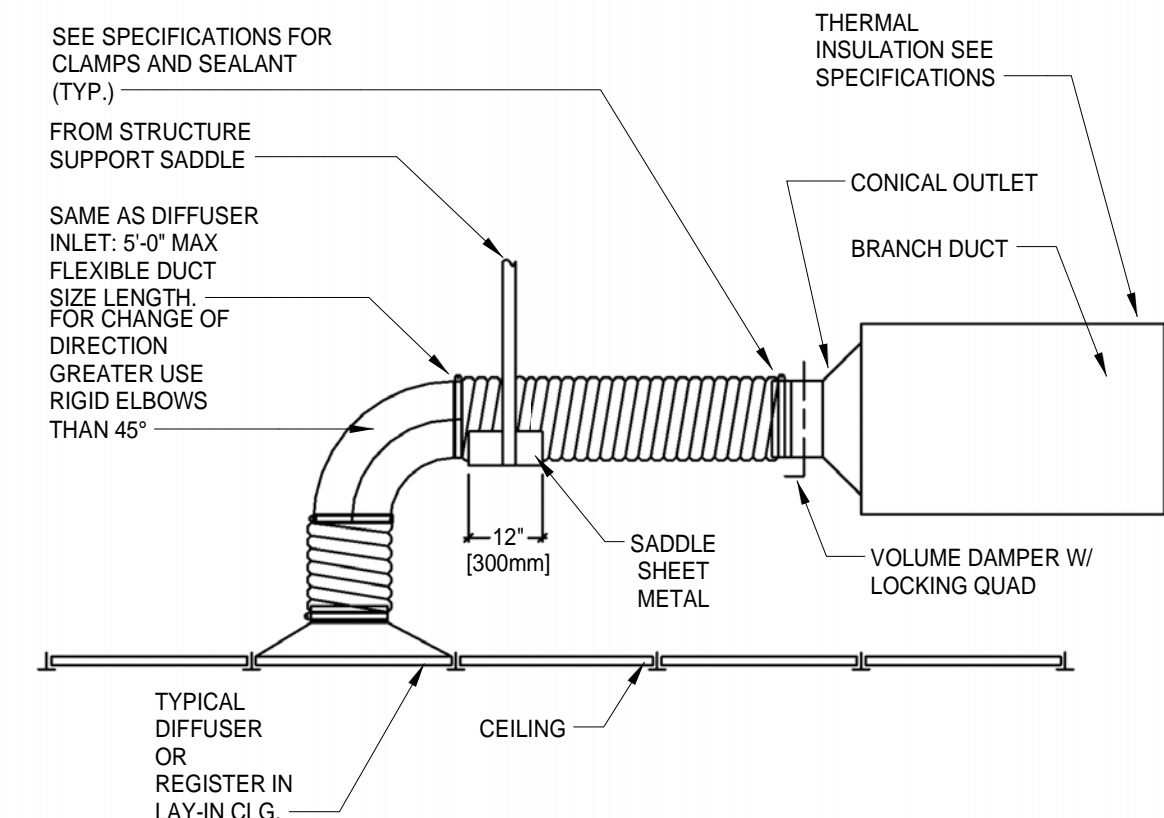
14 EXHAUST OR RETURN BRANCH DUCTWORK
N.T.S.



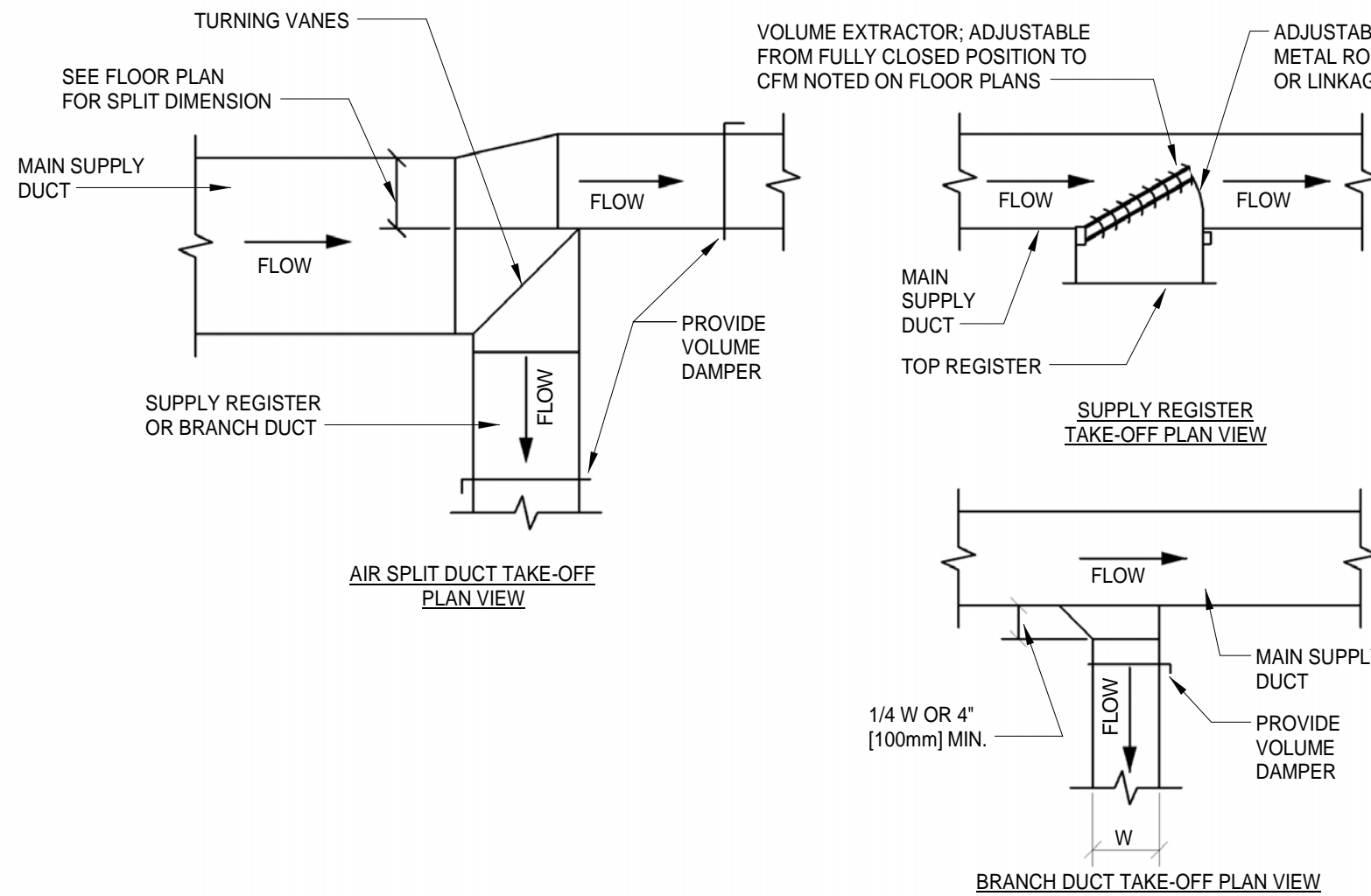
NOTE:

- ALL VANE ELBOWS SHALL BE CONSTRUCTED AND INSTALLED AS DETAILED BY SMACNA.
- WHEN W1 DOES NOT EQUAL W2, VANE SHALL BE SINGLE THICKNESS VANE TYPE REGARDLESS OF W DIMENSION.
- ALL SINGLE THICKNESS VANES SHALL HAVE A 2" (50mm) RADIUS, 1" (25mm) MAXIMUM SPACE BETWEEN VANES AND A 3/4" (20mm) TRAILING EDGE.
- WHEN W1 EQUALS W2 AND W1 IS GREATER THAN 20" (500mm) VANES SHALL BE DOUBLE VANE TYPE.

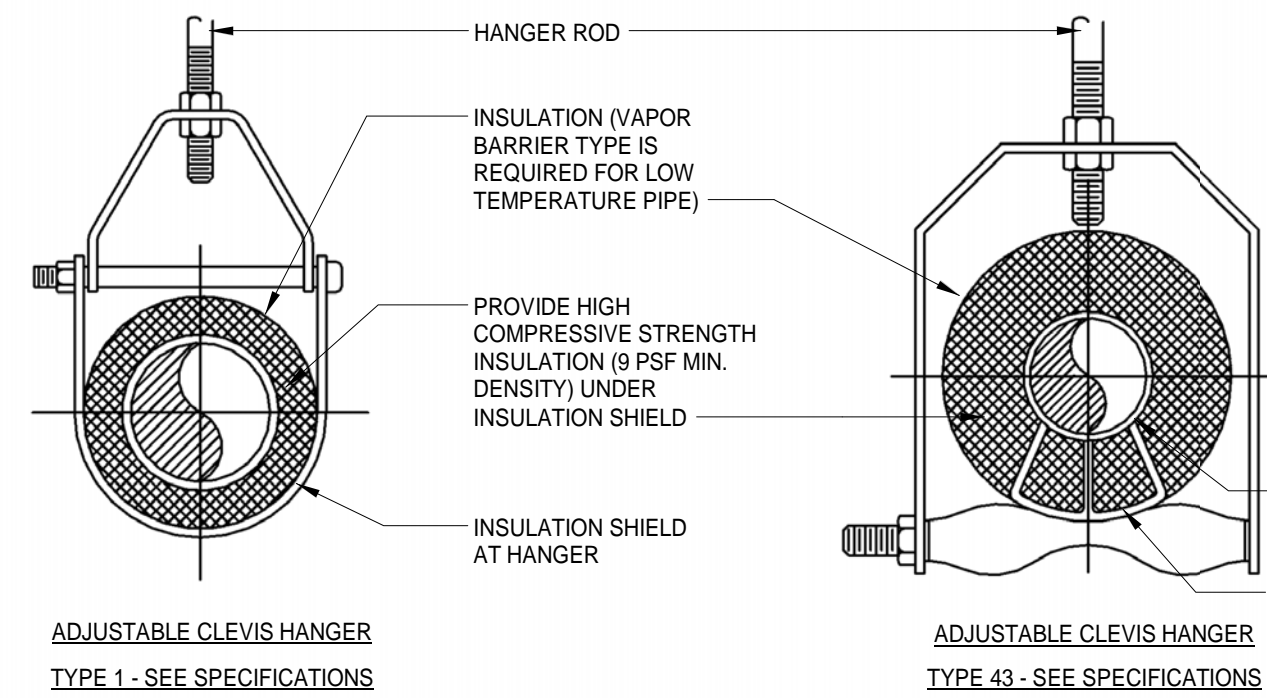
15 DUCTWORK SQUARE VANE ELBOWS
N.T.S.



8 FLEXIBLE AIR DUCT CONNECTOR
N.T.S.



9 SUPPLY DUCTWORK TAKE-OFFS
N.T.S.



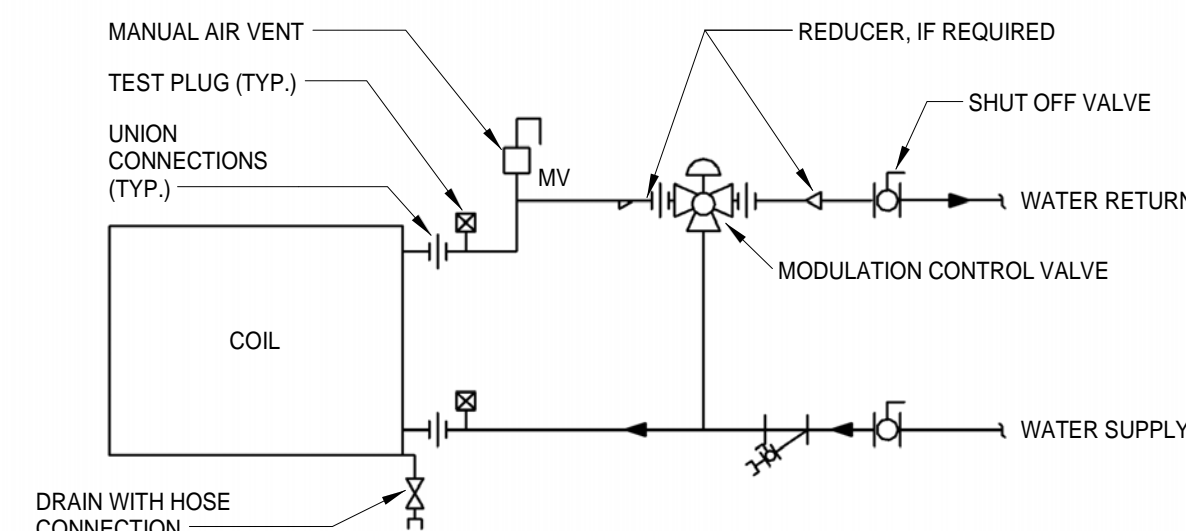
NOTES:
SEE SPECIFIER FOR DETAILED
HANGER REQUIREMENTS

SIDE VIEW TRAPEZE HANGER FOR UP
TO 1000 LB. (453KG) UNIFORM LOAD

MAXIMUM PIPE/TUBING SUPPORT SPACING																							
NOM. SIZE	IN. (mm)	THRU 3/4" THRU [20]	1 [25]	1 1/4 [32]	1 1/2 [40]	2 [50]	2 1/2 [65]	3 [75]	4 [100]	5 [125]	6 [150]	8 [200]	10 [250]	12 [300]	14 [350]	16 [400]	18 [450]	20 [500]	24 [600]				
PIPE	FT. (mm)	7 [2100]	7 [2100]	7 [2100]	7 [2100]	7 [2100]	7 [2100]	7 [2100]	7 [2100]	7 [2100]	7 [2100]	7 [2100]	7 [2100]	7 [2100]	7 [2100]	7 [2100]	7 [2100]	7 [2100]	7 [2100]				
TUBING	FT. (mm)	6 [1800]	6 [1800]	6 [1800]	6 [1800]	6 [1800]	6 [1800]	6 [1800]	6 [1800]	6 [1800]	6 [1800]	6 [1800]	6 [1800]	6 [1800]	6 [1800]	6 [1800]	6 [1800]	6 [1800]	6 [1800]				

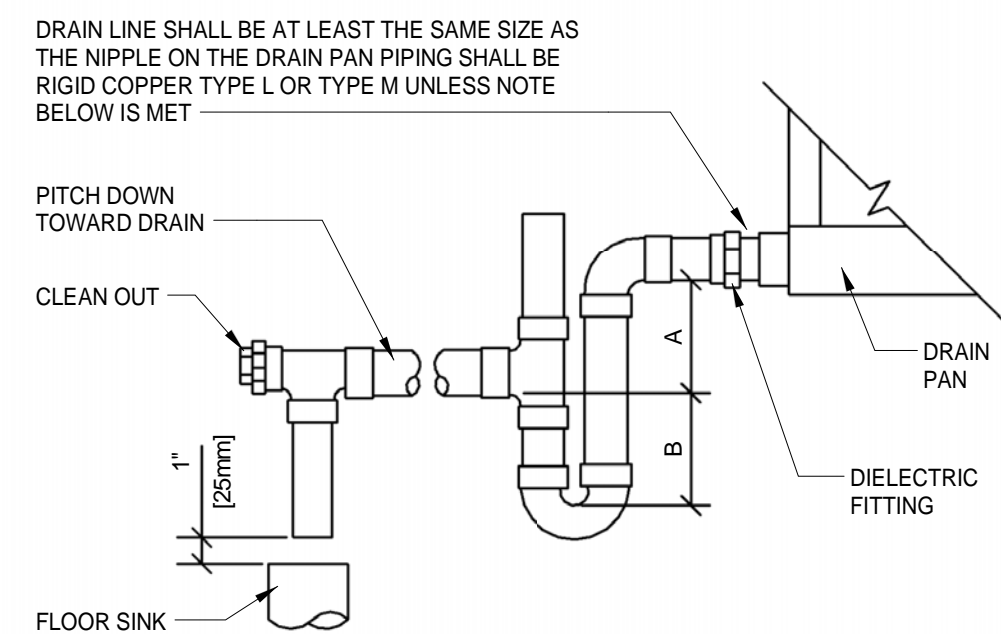
NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

10 PIPE HANGERS
N.T.S.



NOTE:
UNIT 1-HC-6 HAVE 3-WAY VALVE

5 TERMINAL UNIT WATER COILS - PIPING CONNECTIONS (3-WAY VALVE)
N.T.S.



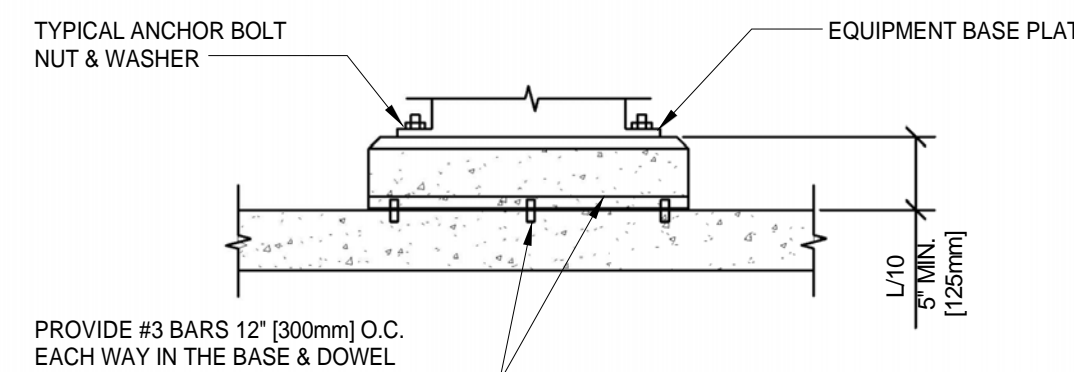
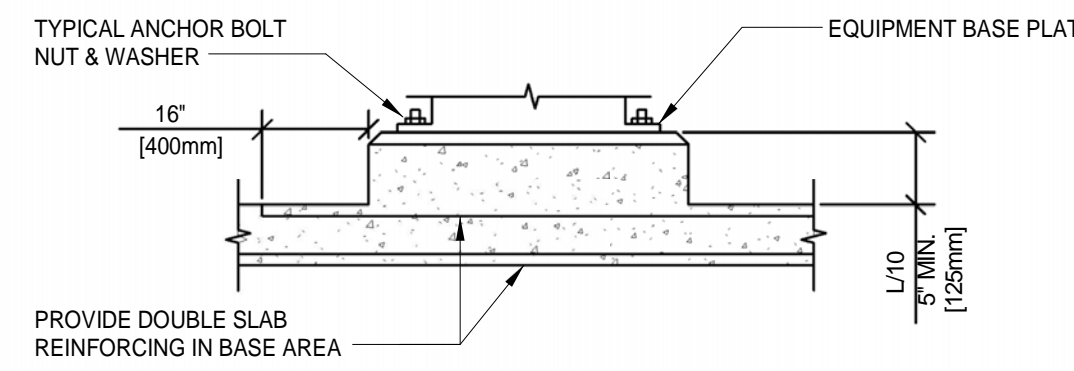
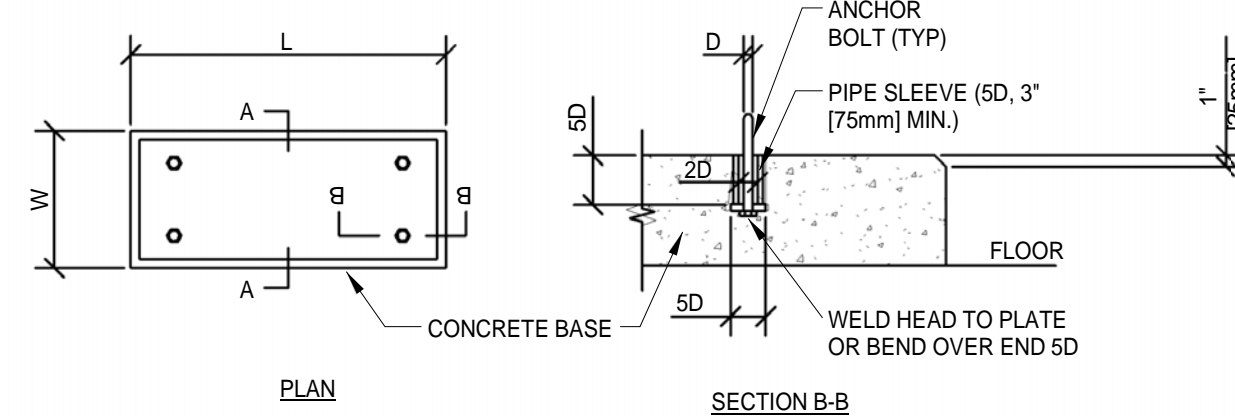
NOTE:

- CPVC PIPE MAY BE USED ONLY IF APPROVED BY LOCAL VA AND IS INDOORS AND DOES NOT PASS THROUGH RATED BARRIERS.
- DIELECTRIC FITTING TO BE USED WHEN TWO DISSIMILAR METALS ARE TO BE CONNECTED.

UNIT TYPE	A	B
DRAW THRU	2" (50mm) PLUS X	X
BLOW THRU	1" (25mm) MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

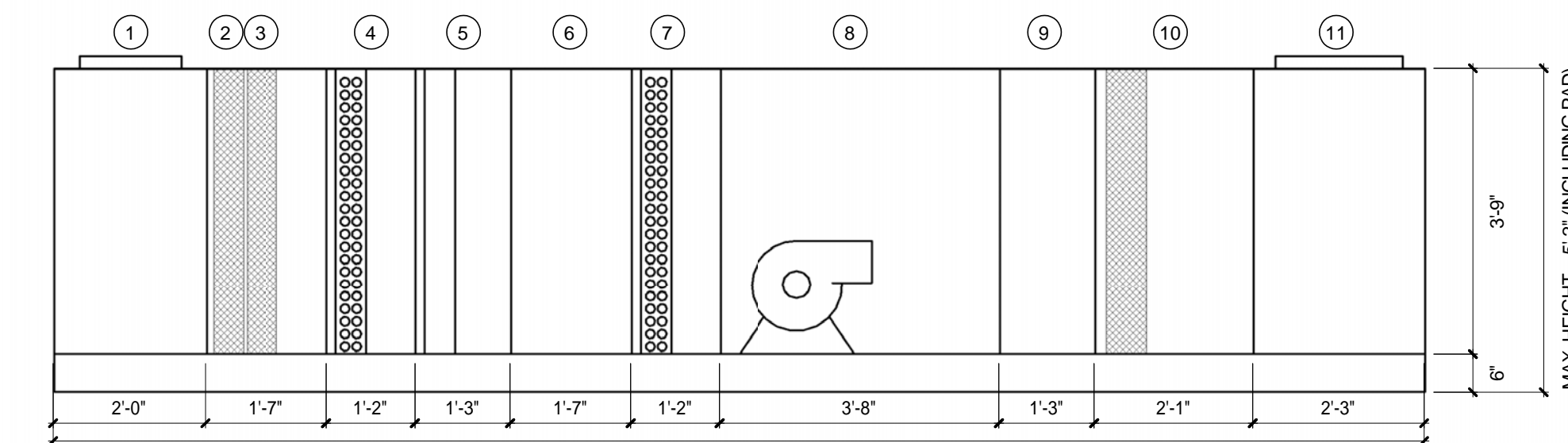
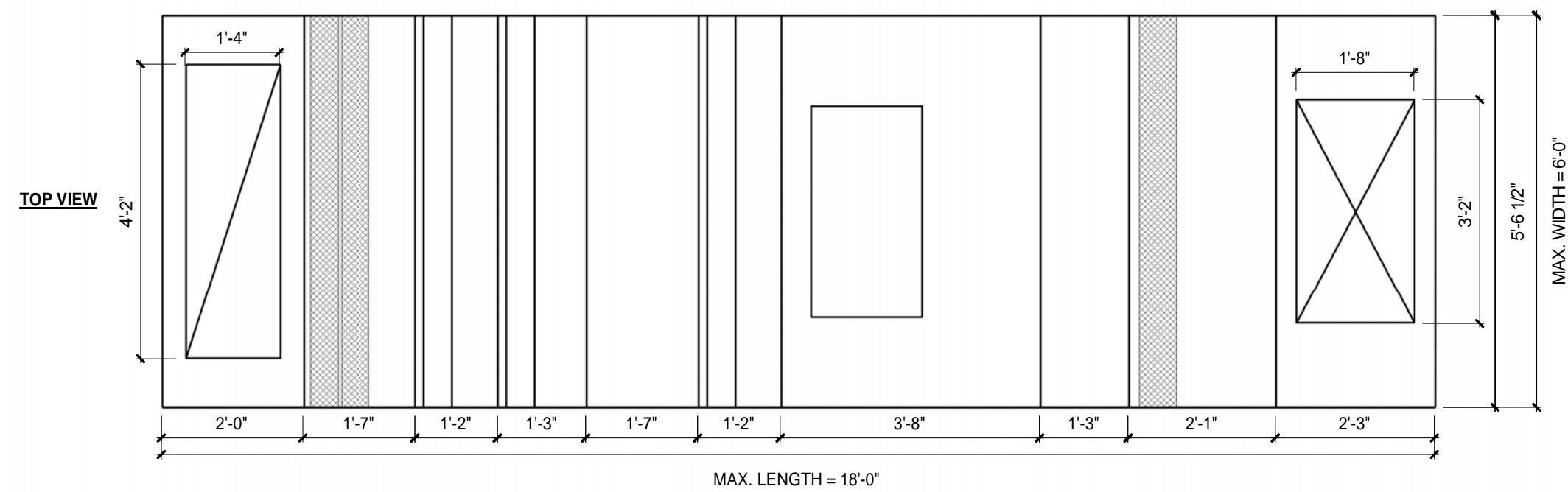
6 AIR HANDLING UNIT DRAIN TRAP DETAIL
N.T.S.



SECTION A-A (BASE NOT POURED WITH SLAB)

NOTE:
TYPICAL FOR ALL FLOOR MOUNTED EQUIPMENT WITHIN MECHANICAL ROOM

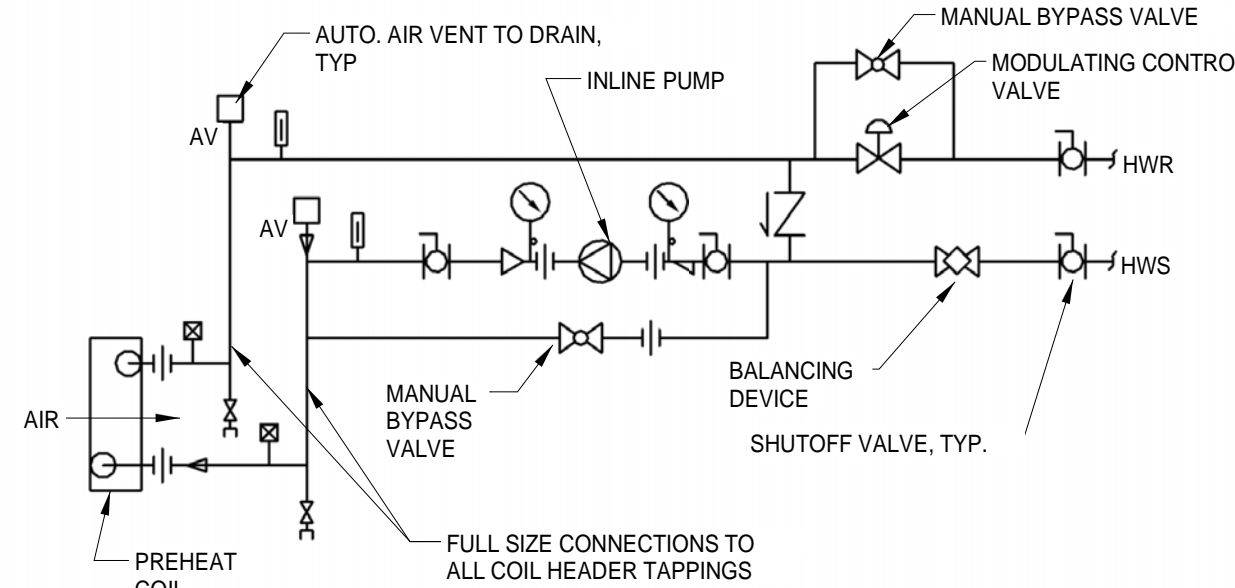
7 CONCRETE EQUIPMENT BASES
N.T.S.



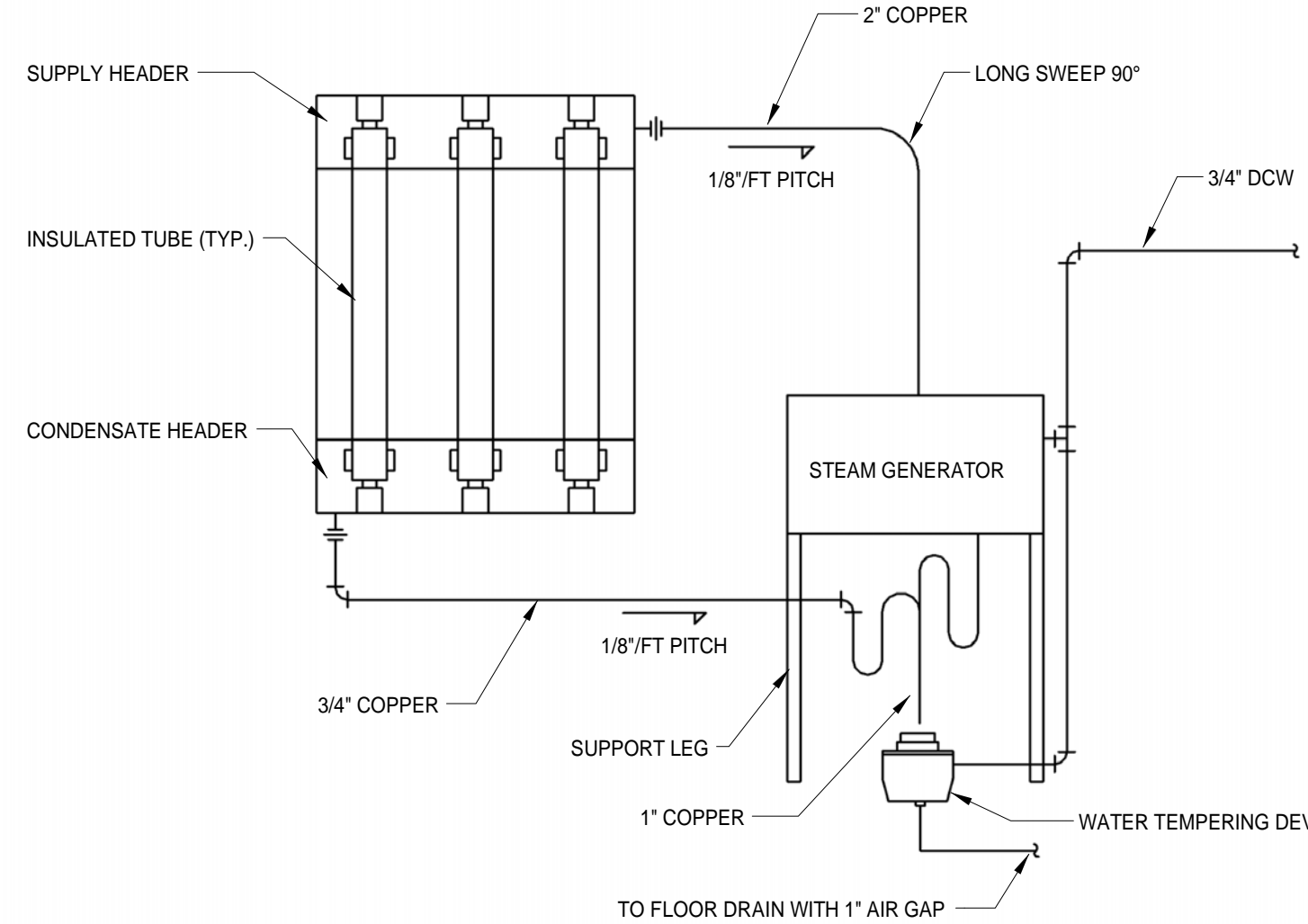
- OUTSIDE AIR INTAKE
- PREFILTER 1 - MERV 7 (1-PF-6)
- PREFILTER 2 - MERV 11 (1-AF-6)
- HOT WATER COIL (1-HWC-6)
- HUMIDIFIER SECTION (1-SH-6)
- ACCESS SECTION
- DX COOLING COIL (1-CC-6)
- FAN SECTION (1-SF-6)
- DIFUSER SECTION
- AFTER FILTER - MERV 14 (1-FF-6)
- SUPPLY AIR PLENUM SECTION

NOTE: UNIT SHALL BE SHIPPED IN SPLITS WHERE THE SHIPPING SECTIONS CAN FIT THROUGH A 3'-10" OPENING.

1 TYPICAL AHU SECTION DETAIL
N.T.S.



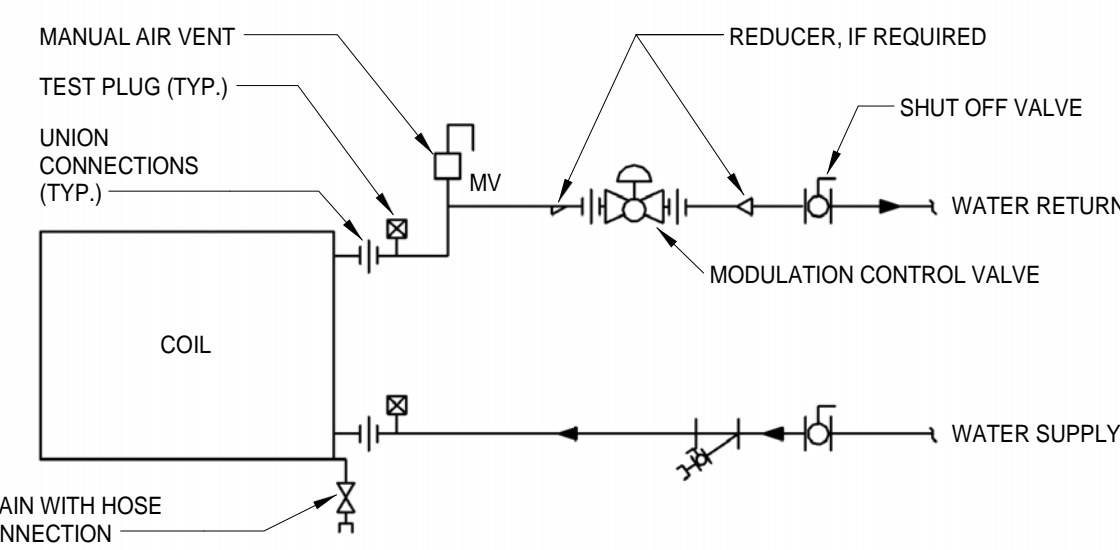
2 PREHEAT COIL (HOT WATER) - PIPING CONNECTIONS
N.T.S.



NOTE:

- SEE MANUFACTURER'S PIPING RECOMMENDATIONS FOR FINAL LAYOUT, PIPE SIZES AND REQUIREMENTS.

3 STEAM GENERATOR AND HUMIDIFIER DETAIL
N.T.S.




4 TERMINAL UNIT WATER COILS - PIPING CONNECTIONS (2-WAY VALVE)
N.T.S.

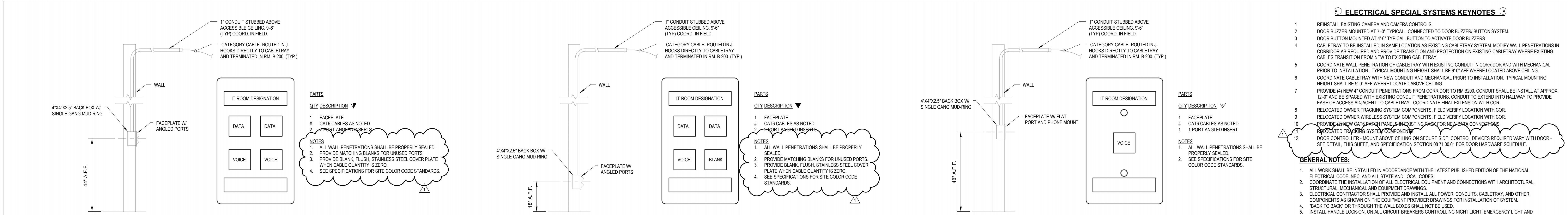
1	ADDENDUM 1	5-8-2014
2		
3		
4		
5		
Revisions:		Date

CONSULTANTS:

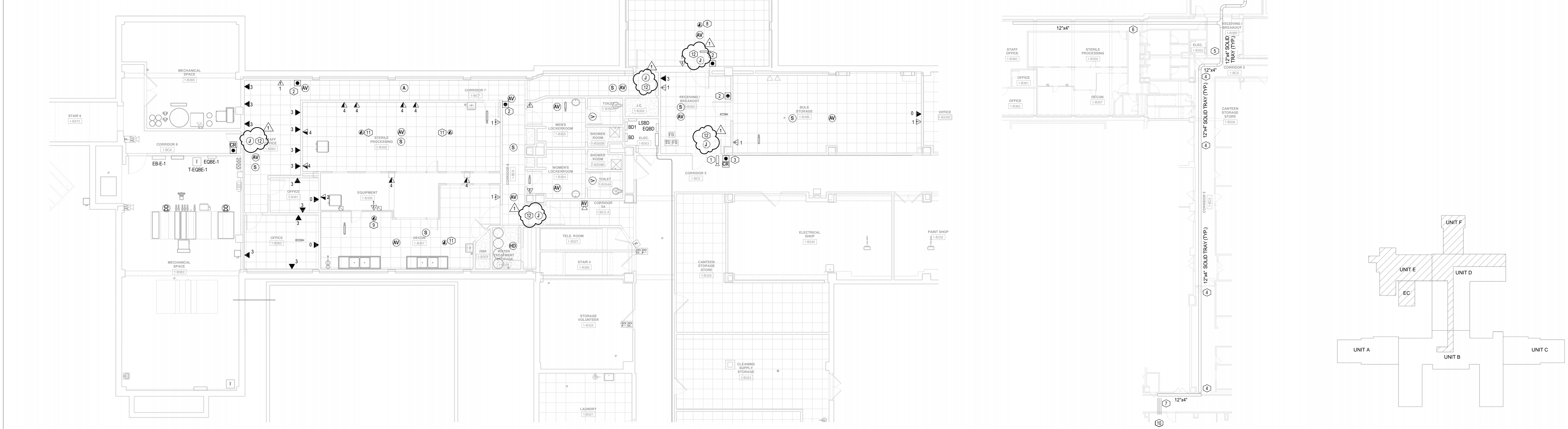
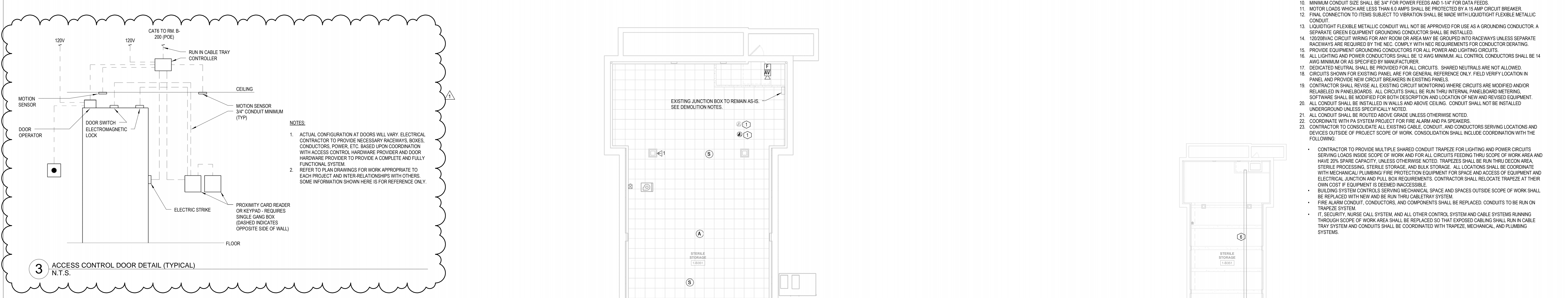


Department of Veterans Affairs
Aleda E Lutz Medical Center
1500 Weiss Street
Saginaw, MI 48602

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<div>File Name</div>		<div>Approved: Division Chief</div>		<div>Building Number 1</div> <div>Checked EJR</div> <div>Drawn JCW</div>		<div>Drawing Number M-500</div>			
<div>File Location</div>		<div>Approved: Service Director</div>		<div>Location 1500 WEISS ST. SAGINAW, MI 48602</div>					



4 TYPE 4 DATA DROP (TYPICAL) N.T.S. **2 TYPE 2 DATA DROP (TYPICAL) N.T.S.** **1 TYPE 1 VOICE DROP (WALL - MOUNT PHONE) N.T.S.**



1 ADDENDUM 1 2 3 4 5 Revisions: Date		CONSULTANTS: www.c2ae.com elevating human achievement		 Department of Veterans Affairs Aleda E Lutz Medical Center 1500 Weiss Street Saginaw, MI 48602		Property of the United States Government For Official Use Only Do not remove this notice Properly Destroy documents when no longer needed		BASEMENT SPECIAL SYSTEMS PLAN		SPS & LOGISTICS STORAGE AREA RENOVATION		Date 12-8-2014 Project Number 655-13-103 Drawing Number ES-110		Office of Facilities Management Department of Veterans Affairs	
						File Name		Approved: Division Chief		Building Number 1		Checked SOF		Drawn SOF	
						File Location		Approved: Service Director		Location 1500 WEISS ST. SAGINAW, MI 48602					