

CANTEEN FREEZER SLAB REPAIR AND WALK-IN REPLACEMENT

SYRACUSE VAMC, NCO 2, BUILDING 1, ROOM CL06, SYRACUSE, NY 13210
CONTRACT NO: VA242-17-C-0162
PROJECT NO: 528A7-17-720

PROJECT DATA

<u>OCCUPANCY TYPE</u> OCCUPANCY GROUP V		<u>SEISMIC REGION</u> SEISMIC REGION C	
<u>SQUARE FOOTAGES</u>			
EXISTING FREEZER FOOTPRINT:	226 SQFT		
PROPOSED FREEZER FOOTPRINT:	325 SQFT		
CONSTRUCTION AREA FOOTPRINT:	845 SQFT		
PROPOSED SLABS FOOTPRINT:	352 SQFT		
PROPOSED WALLS FOOTPRINT:	42 SQFT		

DRAWING INDEX

<u>SHEET NUMBER</u>	<u>DRAWING TITLE</u>
T101	TITLE PAGE
G101	NOTES
AD101	DEMOLITION PLAN
A101	ARCHITECTURAL PLAN
A501	DOOR SCHEDULE AND DETAILS
S101	STRUCTURAL PLAN
S501	STRUCTURAL DETAILS
S502	STRUCTURAL SECTION VIEWS
M101	MECHANICAL DUCTWORK PLAN
M102	PROPOSED MECHANICAL REFRIGERATION PLAN
M601	MECHANICAL SCHEDULES, NOTES, AND DETAILS
ED101	ELECTRICAL DEMOLITION PLAN
E101	PROPOSED ELECTRICAL PLAN
FP101	FIRE PROTECTION PLAN

APPLICABLE CODES

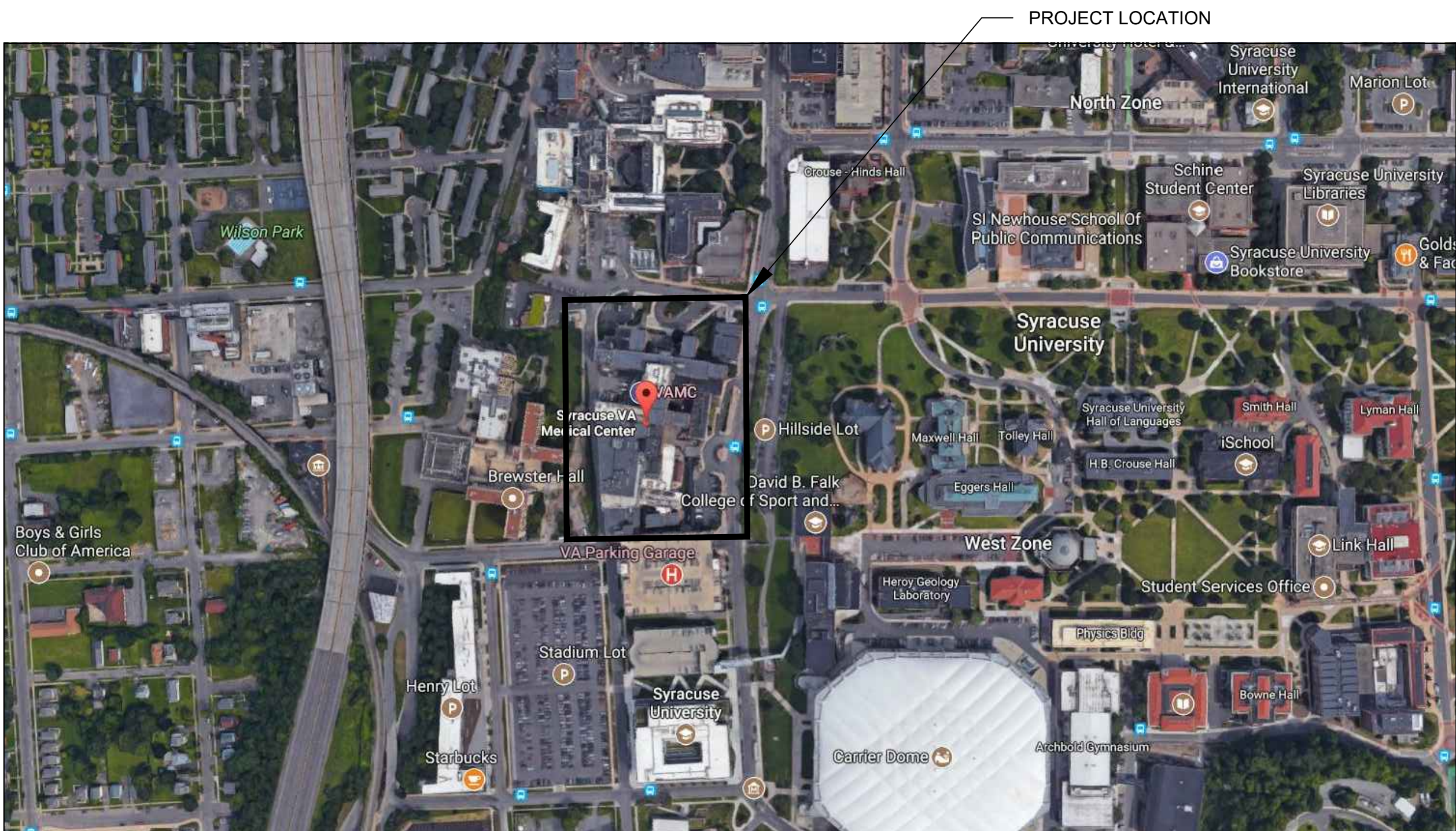
APPLICABLE CODES
IBC 2015 (NYS)
NFPA70 - NATIONAL ELECTRIC CODE (2017)
NFPA 101 - LIFE SAFETY (2018)
PG-18-10 - VA DESIGN MANUALS

SPECIAL INSPECTIONS

SPECIAL INSPECTIONS
CONCRETE FORMING
REINFORCING STEEL
C.I.P. ANCHORS

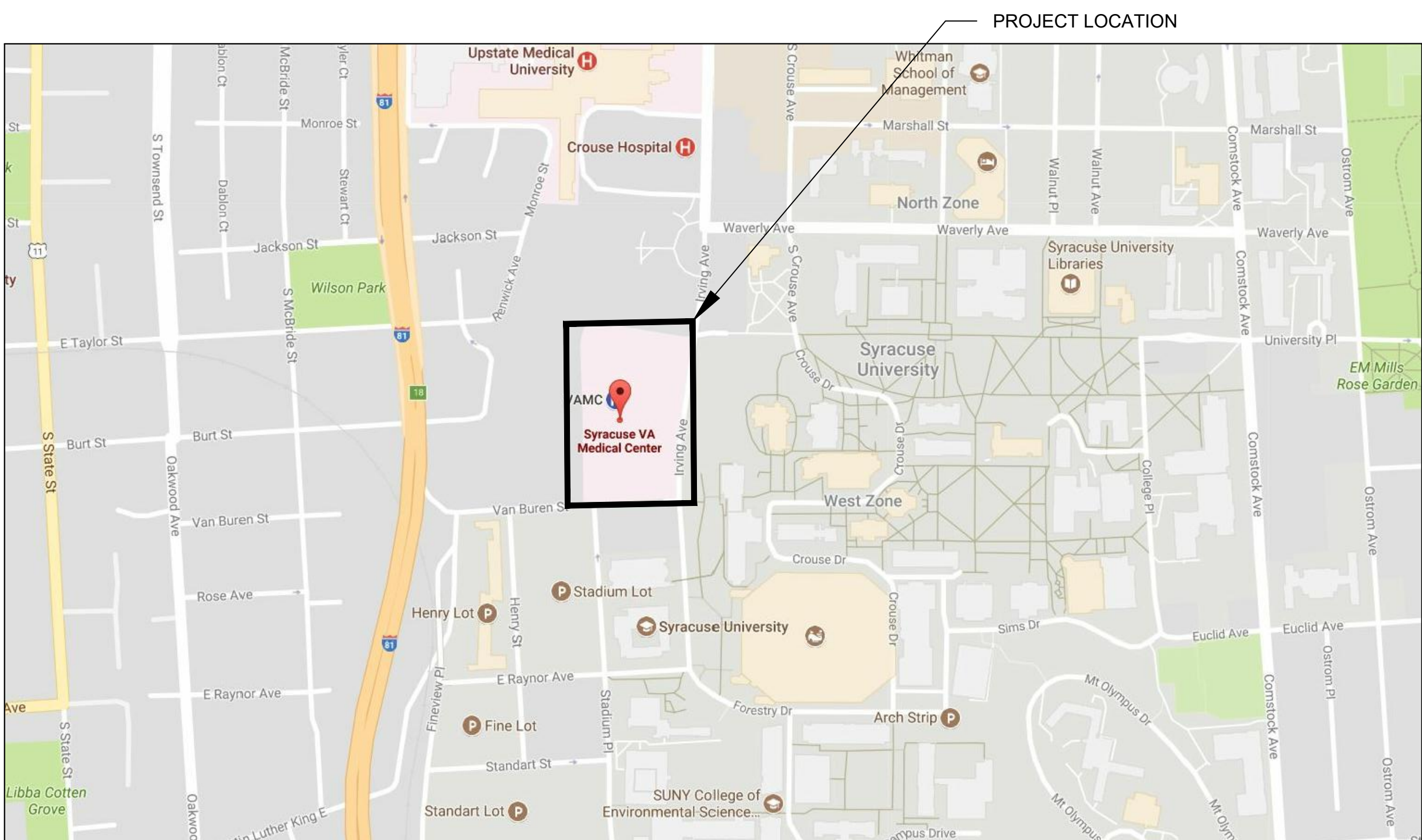
ACI 318: 26.10.1 (b)
IBC 1908.4
ACI 318: 17.8.2

AERIAL MAP



AERIAL: NTS

VICINITY MAP



VICINITY: NTS

		CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Drawing Title TITLE PAGE	Phase 100% SUBMISSION	Project Title CANTEEN FREEZER SLAB REPAIR AND WALK-IN FREEZER REPLACEMENT	Project Number 528A7-17-720
			ENGINEER WATSON ENGINEERING, PC 1112 STATE ROUTE 434 OWEGO, NY 13827 0: 607-223-4334		Approved: Project Director		Location SYRACUSE VAMC, RM CL06	Building Number 1
Revisions:		Date:					Issue Date 4-27-18	Checked JWE
							Drawn MPL	Drawing Number T101

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GENERAL CONSTRUCTION NOTES:

1. UNLESS INDICATED OTHERWISE, ALL PROPOSED WORK ON THESE DRAWINGS SHALL BE CONSIDERED NEW CONSTRUCTION, USING NEW MATERIALS AND EQUIPMENT.

2. INSTALL ALL MATERIALS IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS.

3. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND CONDITIONS OF EXISTING CONSTRUCTION AND REPORT ANY INCONSISTENCIES TO THE ENGINEER BEFORE PROCEEDING WITH WORK AFFECTED BY SUCH INCONSISTENCIES. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE INTENT OF THE DESIGN AS SHOWN ON THE PLANS. ACTUAL CONDITIONS SHALL GOVERN OVER WRITTEN DIMENSIONS, WRITTEN DIMENSIONS SHALL GOVERN OVER ACTUAL DRAWING REPRESENTATION. ATTEMPTS TO UTILIZE SCALING OR ELECTRONIC MEANS TO DETERMINE QUANTITY TAKE-OFF MAY BE AFFECTED BY NOT TO SCALE ITEMS. THE ENGINEER IS NOT RESPONSIBLE FOR, AND SHALL NOT BE HELD LIABLE FOR THE ACCURACY OF RESULTS OF SUCH TAKE OFFS.

4. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

5. THE CONTRACTOR SHALL NOT INSTALL ITEMS AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS THAT FIELD CONDITIONS ARE DIFFERENT THAN SHOWN IN THE DESIGN. SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER, IN THE EVENT THE CONTRACTOR DOES NOT NOTIFY THE ENGINEER, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE FOR ANY REVISIONS NECESSARY. THE ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NOR SHALL THE ENGINEER BE REQUIRED TO SUPERVISE THE CONDUCT OF THE WORK OR THE CONSTRUCTION PROCEDURES AND SAFETY PROCEDURES FOLLOWED BY THE CONTRACTOR OR THE SUBCONTRACTOR OR THEIR RESPECTIVE EMPLOYEES OR BY ANY OTHER PERSON A THE JOB SITE OTHER THAN THAT OF THE ENGINEER'S EMPLOYEES.

6. CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY 24 HOURS A DAY AND NOT BE LIMITED TO NORMAL WORKING HOURS. ANY DAMAGE TO PROPERTY AND/OR ITEMS ON PROPERTY, EXISTING OR NEW, SHALL BE REPAIRED AND/OR PAID FOR BY THE RESPONSIBLE PARTY.

7. CONTRACTOR SHALL NOT INTERFERE WITH THE DAILY OPERATIONS OF THE HOSPITAL, IT'S PERSONNEL, OR IT'S CUSTOMERS AT ANY POINT DURING THE CONSTRUCTION PROCESS.

8. CONCRETE F'c = 5,000 P.S.I. @ 28 DAYS WITH 5.0% - 9.0% ENTRAINED AIR.

9. REINFORCING STEEL TO BE WIRE TIED AND HELD IN PLACE WITH PLASTIC CHAIR AND REBAR STIRRUPS AS NEEDED.

10. ALL STEEL REINFORCEMENT SHALL BE ASTM A615 GRADE 60.

11. ALL STEEL REINFORCEMENT COVER SHALL BE 3" UNLESS OTHERWISE NOTED.

12. INFECTION CONTROL NOTES LOCATED IN SPEC SECTION 01 35 26.

DEMOLITION NOTES:

1. REMOVAL AS DESCRIBED HEREIN SHALL BE ACCOMPLISHED WITHOUT STORING EXCESSIVE QUANTITIES OF ANY MATERIALS, RUBBISH, DIRT, DEBRIS, OR WASTE OF ANY SORTS RESULTING FROM THE REMOVAL OPERATIONS.

2. ALL DEBRIS SHALL BE REMOVED FROM THE CONSTRUCTION SITE DAILY.

3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO MAINTAIN FREE PROTECTED ACCESS OF ALL TENANTS, SERVICE PERSONNEL AND THE PUBLIC THROUGH THE AREAS INVOLVED.

4. THE CONTRACTOR SHALL REVIEW WITH ENGINEER OF RECORD, ANY AND ALL ITEMS OF DEMOLITION NOT IMPLIED OR SPECIFIED ON DRAWINGS OR SPECIFICATIONS AND TO INCLUDE SUCH COSTS IN BID UNLESS OTHERWISE ADVISED.

5. PROVIDE ALL LABOR, MATERIAL, EQUIPMENT AND SERVICES AND PERFORM ALL OPERATIONS REQUIRED FOR DEMOLITION OF THE EXISTING ASPHALT AND RELATED WORK AS DESCRIBED AND SPECIFIED HEREIN, AND AS MAY BE REASONABLY IMPLIED AS NECESSARY TO COMPLETE THE WORK IN ALL RESPECTS.

6. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF ALL APPLICABLE REFERENCE SPECIFICATIONS AND TO GOVERNING BUILDING CODES AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION.

7. CONTRACTOR TO PROVIDE DUST BARRIER FOR PROTECTION OF EXISTING AREAS TO REMAIN AS REQUIRED.

8. WHEN DEMOLITION TAKES PLACE, SHOULD ANY WORK AFFECT THE INTEGRITY OF THE STRUCTURE, WORK MUST STOP IMMEDIATELY , AND ENGINEER NOTIFIED. UNDER NO CIRCUMSTANCES SHALL REINFORCING OF ANY KIND BE DAMAGED, CUT OR BROKEN.

GENERAL NOTES AND SPECIFICATION FOR WALK-IN FREEZER CONSTRUCTION

1. EACH PANEL SHALL CONSIST OF INNER AND OUTER METAL SKINS, A 4" INSULATION CORE, AND BE EQUIPPED WITH CAM-ACTION LOCKING DEVICES. THE LOCKING DEVICES SHALL BE OPERABLE FROM INSIDE THE WALK-IN. CONSTRUCTION SHALL BE AS APPROVED BY THE NSF INTERNATIONAL AND SHALL BEAR THE NSF® SEAL OF APPROVAL. ALL PANELS SHALL BE CONNECTED TO ONE ANOTHER (E.G. TONGUE AND GROOVE) THROUGH THE CORE INSULATION OF THE ADJACENT PANEL. THE RESULTANT CONNECTION JOINT SHALL BE SEALED AT BOTH SIDES BY DOUBLE BARRELED NSF® APPROVED GASKETS. IN ORDER TO AVOID FUTURE SWELLING AND MOLD FORMATION, NO WOOD SHALL BE PERMITTED IN THE MANUFACTURE OF THE TONGUE AND GROOVE PANEL PROFILE.

2. WALL PANEL INSULATION SHALL BE 4" THICK, HIGH QUALITY, EXTRUDED POLYSTYRENE OR FOAMED-IN-PLACE POLYURETHANE, MODULAR PANELS JOINED BY NOT LESS THAN THREE (3) CAM-LOCK TYPE OR OTHER EQUIVALENT DEVICES; GASKET TO SEAL BETWEEN PANELS; R-32 OR GREATER.

3. EXTRUDED POLYSTYRENE WALLS: ALL WALL INSULATION SHALL BE 4" THICK, HIGH QUALITY, RIGID, EXTRUDED POLYSTYRENE, 1.6 LB DENSITY. K FACTOR OF NOT MORE THAN 0.125 AND AN R FACTOR OF NO LESS THAN 8.1 PER INCH, INITIAL FRESH R-32.4 MINIMUM TOTAL WALL R FACTOR. VAPOR TRANSMISSION SHALL BE LESS THAN 1 PERM AND FOAM CORE MATERIAL MUST MEET UL 5 FLAME SPREAD RATING WITH AVERAGE SMOKE RATING LESS THAN 165 (UL 723 TEST).

4. FOAMED-IN-PLACE POLYURETHANE WALLS: ALL WALL AND CEILING INSULATION SHALL BE 4" THICK, HIGH QUALITY FOAMED IN- PLACE POLYURETHANE, 2.2 LB. DENSITY. K FACTOR OF NOT MORE THAN .125 AND AN R FACTOR OF NO LESS THAN 8 PER INCH, INITIAL FRESH R-32 MINIMUM TOTAL WALLS R FACTOR. VAPOR TRANSMISSION SHALL BE LESS THAN 1 PERM AND FOAM CORE MATERIAL MUST MEET: UL FOAM CORE 25 FLAME SPREAD RATING WITH AVERAGE SMOKE RATING LESS THAN 450. (ASTM E-84)

5. CEILING: PANEL INSULATION SHALL BE 4" THICK, HIGH QUALITY, EXTRUDED POLYSTYRENE OR FOAMED-IN-PLACE POLYURETHANE, MODULAR PANELS JOINED BY NOT LESS THAN THREE (3) CAM-LOCK DEVICES OR OTHER EQUIVALENT DEVICES; GASKET TO SEAL BETWEEN PANELS; R-32 OR GREATER.

6. EXTRUDED POLYSTYRENE CEILINGS: ALL CEILING INSULATION SHALL BE 4" THICK, HIGH QUALITY, RIGID, EXTRUDED POLYSTYRENE, 1.6 LB DENSITY. K FACTOR OF NOT MORE THAN 0.125 AND AN R FACTOR OF NO LESS THAN 8.1 PER INCH, INITIAL FRESH R-32.4 MINIMUM TOTAL WALL R FACTOR. VAPOR TRANSMISSION SHALL BE LESS THAN 1 PERM AND FOAM CORE MATERIAL MUST MEET UL 5 FLAME SPREAD RATING WITH AVERAGE SMOKE RATING LESS THAN 165 (UL 723 TEST).

7. FOAMED IN-PLACE POLYURETHANE CEILINGS: ALL WALL AND CEILING INSULATION SHALL BE 4" THICK, HIGH QUALITY, FOAMED IN-PLACE POLYURETHANE, 2.2 LB

DENSITY. K FACTOR OF NOT LESS THAN 0.141 AND AN R-FACTOR OF NOT LESS THAN 7.1 PER INCH, INITIAL FRESH R-28.4 MINIMUM TOTAL WALL R FACTOR. VAPOR TRANSMISSION SHALL BE LESS THAN 1 PERM AND FOAM CORE MATERIAL MUST MEET: UL FOAM CORE 25 FLAME SPREAD RATING WITH AVERAGE SMOKE RATING LESS THAN 450. (ASTM E-84).

8. EXTERIOR FINISH: 26 GUAGE STUCCO EMBOSSED GALVANIZED STEEL.

9. INTERIOR WALL PANEL FINISH: 26 GUAGE STUCCO EMBOSSED GALVANIZED STEEL.

10. CEILING PANEL FINISH: 26 GUAGE STUCCO EMBOSSED GALVANIZED STEEL.

11. FLOOR FINISH: 22 GAUGE SMOOTH STAINLESS STEEL.

12. PANEL DIMENSIONS-MAXIMUM PANEL WIDTH: 47".

13. FLOOR: PREFABRICATED FLOOR PANELS MUST HAVE R-28 RATING OR GREATER; ALLOWABLE STATIONARY LOAD OF 600 POUNDS PER SQ. FT. WHEN PLACED ON A CONTINUOUS CONCRETE SLAB-SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

14. DOORS: R-32 OR GREATER. DOOR SHALL BE FLUSH MOUNTED, POSITIONED AND HINGED; PROVIDED WITH SUITABLE SWEEP AND MAGNETIC GASKETS, DOOR CLOSER, ONE PRE-WIRED VAPOR PROOF LIGHT FIXTURE, LIGHT SWITCH WITH PILOT LIGHT, DIAL THERMOMETER, MANUAL INTERNAL LOCK OVERRIDE, CHROME PLATED CAM LIFT HINGES, CHROME PLATED DOOR LATCHES WITH STRIKE.

14.1. FREEZER DOORS SHALL HAVE A UL APPROVED HEATER WIRE ON ALL FOUR SIDES. FREEZER DOORS SHALL INCLUDE A HEATED PRESSURE RELIEF PORT IN THE ADJACENT PANEL.

14.2. HINGES: ONE CAM-LIFT SPRING ASSISTED SELF-CLOSING HINGE AND ONE CAM-LIFT HINGE.

14.3. HANDLE: KASON OR COMPONENT EQUIVALENT WITH STEEL REINFORCED PLATE INSIDE DOOR PANEL, PULL DOOR HANDLE WITH CYLINDER LOCK, PADLOCK HOLE AND INTERIOR SAFETY RELEASE; PROVIDE COMMON KEY FOR ALL WALK-IN DOORS.

14.4. DOOR CLOSER: KASON OR SPRING ASSISTED COMPARABLE.

14.5. VISION PANEL: NOT LESS THAN 150 SQUARE INCHES; HEATED; TRIPLE PANE GLASS.

14.6. KICK PLATE: 1/8" THICK ALUMINUM DIAMOND-TREAD PLATE ON BOTH SIDES OF DOOR AND FRAME; EXTEND FROM DOOR BOTTOM TO DOOR HANDLE; SECURE WITH STAINLESS STEEL SCREWS; SEAL PERIMETER WITH SILICONE.

14.7. LED LIGHT - SINGLE LIGHT FIXTURE.

14.8. INTERNAL RAMP: 30" DEEP, 22 GAUGE STAINLESS STEEL, EXTRUDED POLYSTYRENE; THREE - 8" NON-SKID STRIPS, NSF APPROVED.

14.9. EXTERNAL RAMP: 30" DEEP, ¼" STEEL DIAMOND TREAD PLATE, PAINTED SAFETY YELLOW.

14.10. ELECTRICAL: WIRE SURFACE MOUNTED ON DOOR PANEL TO JUNCTION BOX TOP OF DOOR.

14.11. THERMOMETER: INSTALLED FLUSH-MOUNT ON HINGE SIDE OF DOOR PANEL, DIGITAL WITH ALARM.

15. PRESSURE RELIEF PORT: PROVIDE HEATED RELIEF PORT LOCATED IN EXPOSED WALL

16. LIGHTS: LED, SINGLE BULB.

17. SPRINKLER HEADS: CUT HOLES FOR EXISTING SPRINKLER HEADS; PROVIDE STAINLESS STEEL TRIM CAP AND SEAL

HOLES.

18. INSTALLATION: MANUFACTURER APPROVED DEALER SHALL BE RESPONSIBLE FOR INSTALLATION. MANUFACTURER SHALL SUPPLY A SET OF INSTALLATION INSTRUCTIONS AND LAY-OUT DRAWINGS. ALL PANELS SHALL HAVE PANEL IDENTIFICATION CORRESPONDING WITH THE LAY-OUT DRAWING TO FACILITATE RAPID AND ACCURATE FIELD ERECTION.

19. REFRIGERATION SYSTEM: COMPLETE OPERATING SYSTEM CONSISTING OF A CONDENSING UNIT AND AN EVAPORATOR COIL. SEE SIZING CALCULATIONS FOR UNIT REQUIREMENTS.

19.1. CONDENSING UNIT: AIR-COOLED CONDENSER WITH BALL-BEARING PERMANENTLY LUBRICATED FAN MOTOR. CONDENSER FAN MOTORS OF UNDER 1 H.P. MUST USE ELECTRONICALLY COMMUTATED (EC) MOTORS OR PERMANENT SPLIT CAPACITATOR-TYPE (PSP) MOTORS; SPLASH LUBRICATION SYSTEM USING MOBIL EAL ARCTIC 22 POLYESTER SYNTHETIC REFRIGERATION OIL; OIL SIGHT GLASS; REMOVABLE OIL DRAIN PLUG; LABEL INDICATING OIL USED; HIGH/LOW PRESSURE CONTROL; SUCTION LINE FILTER; SUCTION AND DISCHARGE SERVICE VALVES AND COPPER/BRASS VIBRATION ISOLATORS; RECEIVER WITH FUSIBLE PLUG OR RELIEF VALVE; LIQUID LINE SHUT-OFF VALVE; SIGHT GLASS; MOLECULAR SIEVE FILTER DRYER; MAIN POWER SUPPLY FUSED DISCONNECT SWITCH.

19.2. EVAPORATOR COIL: FORCED CONVECTION STYLE; MATCH TO CONDENSING UNIT AND SUSPEND WITH AIR DISCHARGED PARALLEL TO THE CEILING; LIFETIME SEALED MOTORS WITH INHERENT MOTOR PROTECTION; EVAPORATOR FAN MOTORS OF UNDER 1 HP AND LESS THAN 460 VOLTS MUST USE ELECTRONICALLY COMMUTATED (EC) MOTORS; ENCLOSE COIL SECTION AND FANS WITHIN ALUMINUM HOUSING. PROVIDE ELECTRIC HEATER AND CONTROLS FOR POSITIVE AUTOMATIC DEFROST. INSTALLATION SHALL HANG USING PLASTIC OR NYLON FASTENERS; SPREAD COIL WEIGHT EVENLY OVER CEILING PANELS; SUPPORT LONG SPAN CEILING PANELS AS REQUIRED.

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FILE PATH

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

ENGINEER
WATSON ENGINEERING, PC
1112 STATE ROUTE 434
OWEGO, NY 13827
0: 607-223-4334

STAMP

U.S. Department of Veterans Affairs

Drawing Title

NOTES

Approved: Project Director

Phase

100% SUBMISSION

Project Title

CANTEEN FREEZER SLAB REPAIR AND WALK-IN FREEZER REPLACEMENT

Location
SYRACUSE VAMC, RM CL06

Issue Date
4-27-18

Checked
JWE

Drawn
MPL

Project Number

528A7-17-720

Building Number

1

Drawing Number

G101

Revisions:

Date:

VA FORM 08 - 6231

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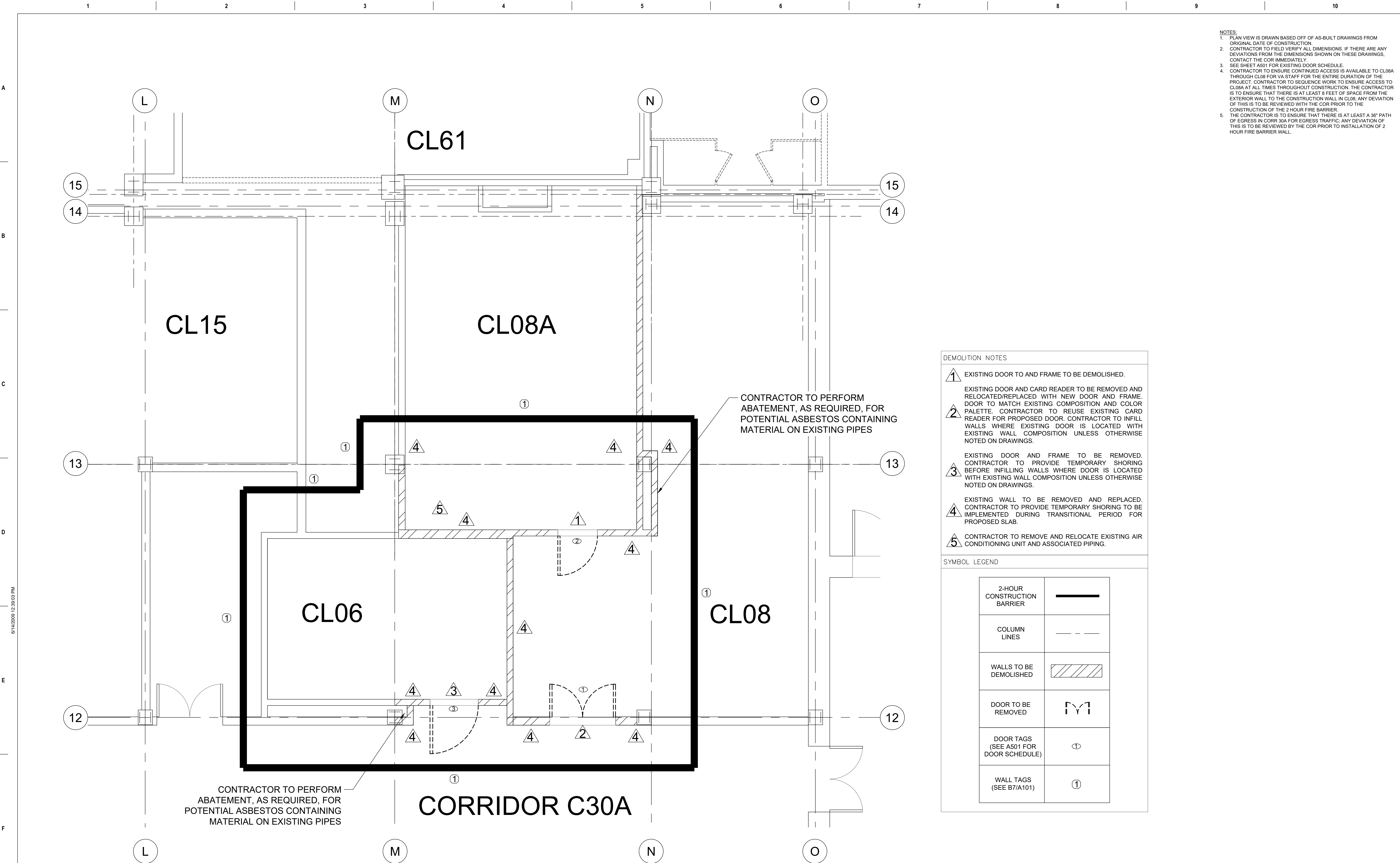
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- NOTES:
1. PLAN VIEW IS DRAWN BASED OFF OF AS-BUILT DRAWINGS FROM ORIGINAL DATE OF CONSTRUCTION.
 2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. IF THERE ARE ANY DEVIATIONS FROM THE DIMENSIONS SHOWN ON THESE DRAWINGS, CONTACT THE COR IMMEDIATELY.
 3. SEE SHEET A501 FOR EXISTING DOOR SCHEDULE.
 4. CONTRACTOR TO ENSURE CONTINUED ACCESS IS AVAILABLE TO CL08A THROUGH CL08 FOR VA STAFF FOR THE ENTIRE DURATION OF THE PROJECT. CONTRACTOR TO SEQUENCE WORK TO ENSURE ACCESS TO CL08A AT ALL TIMES THROUGHOUT CONSTRUCTION. THE CONTRACTOR IS TO ENSURE THAT THERE IS AT LEAST 8 FEET OF SPACE FROM THE EXTERIOR WALL TO THE CONSTRUCTION WALL IN CL08; ANY DEVIATION OF THIS IS TO BE REVIEWED WITH THE COR PRIOR TO THE CONSTRUCTION OF THE 2 HOUR FIRE BARRIER.
 5. THE CONTRACTOR IS TO ENSURE THAT THERE IS AT LEAST A 36" PATH OF EGRESS IN CORR 30A FOR EGRESS TRAFFIC; ANY DEVIATION OF THIS IS TO BE REVIEWED BY THE COR PRIOR TO INSTALLATION OF 2 HOUR FIRE BARRIER WALL.

DEMOLITION NOTES

1

EXISTING DOOR TO AND FRAME TO BE DEMOLISHED.

2

EXISTING DOOR AND CARD READER TO BE REMOVED AND RELOCATED/REPLACED WITH NEW DOOR AND FRAME. DOOR TO MATCH EXISTING COMPOSITION AND COLOR PALETTE. CONTRACTOR TO REUSE EXISTING CARD READER FOR PROPOSED DOOR. CONTRACTOR TO INFILL WALLS WHERE EXISTING DOOR IS LOCATED WITH EXISTING WALL COMPOSITION UNLESS OTHERWISE NOTED ON DRAWINGS.

3

EXISTING DOOR AND FRAME TO BE REMOVED. CONTRACTOR TO PROVIDE TEMPORARY SHORING BEFORE INFILLING WALLS WHERE DOOR IS LOCATED WITH EXISTING WALL COMPOSITION UNLESS OTHERWISE NOTED ON DRAWINGS.

4

EXISTING WALL TO BE REMOVED AND REPLACED. CONTRACTOR TO PROVIDE TEMPORARY SHORING TO BE IMPLEMENTED DURING TRANSITIONAL PERIOD FOR PROPOSED SLAB.

5

CONTRACTOR TO REMOVE AND RELOCATE EXISTING AIR CONDITIONING UNIT AND ASSOCIATED PIPING.

SYMBOL LEGEND

2-HOUR CONSTRUCTION BARRIER	
COLUMN LINES	
WALLS TO BE DEMOLISHED	
DOOR TO BE REMOVED	
DOOR TAGS (SEE A501 FOR DOOR SCHEDULE)	
WALL TAGS (SEE B7/A101)	

F1 DEMOLITION PLAN

SCALE: 3/8" = 1'-0"

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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ENGINEER
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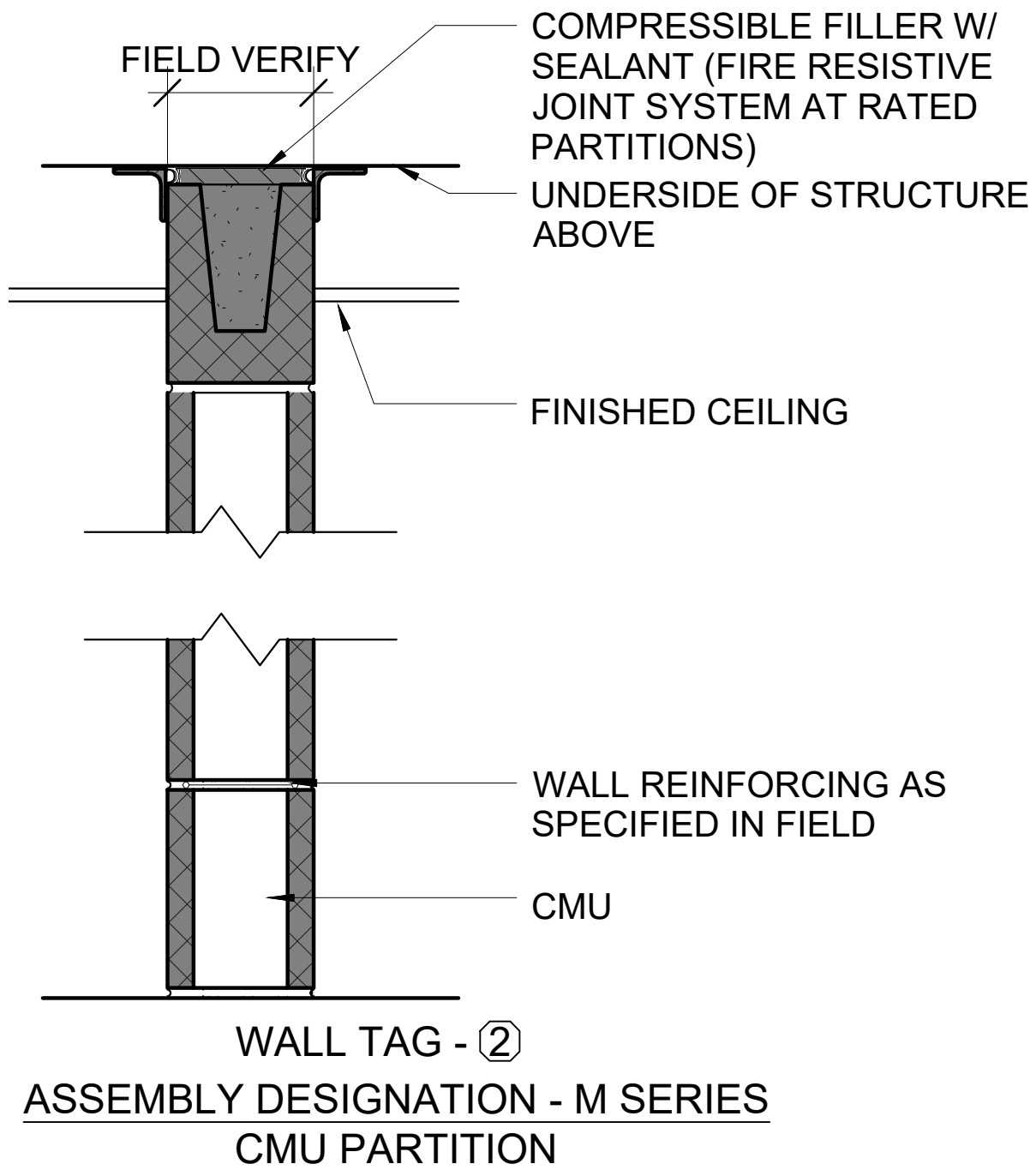
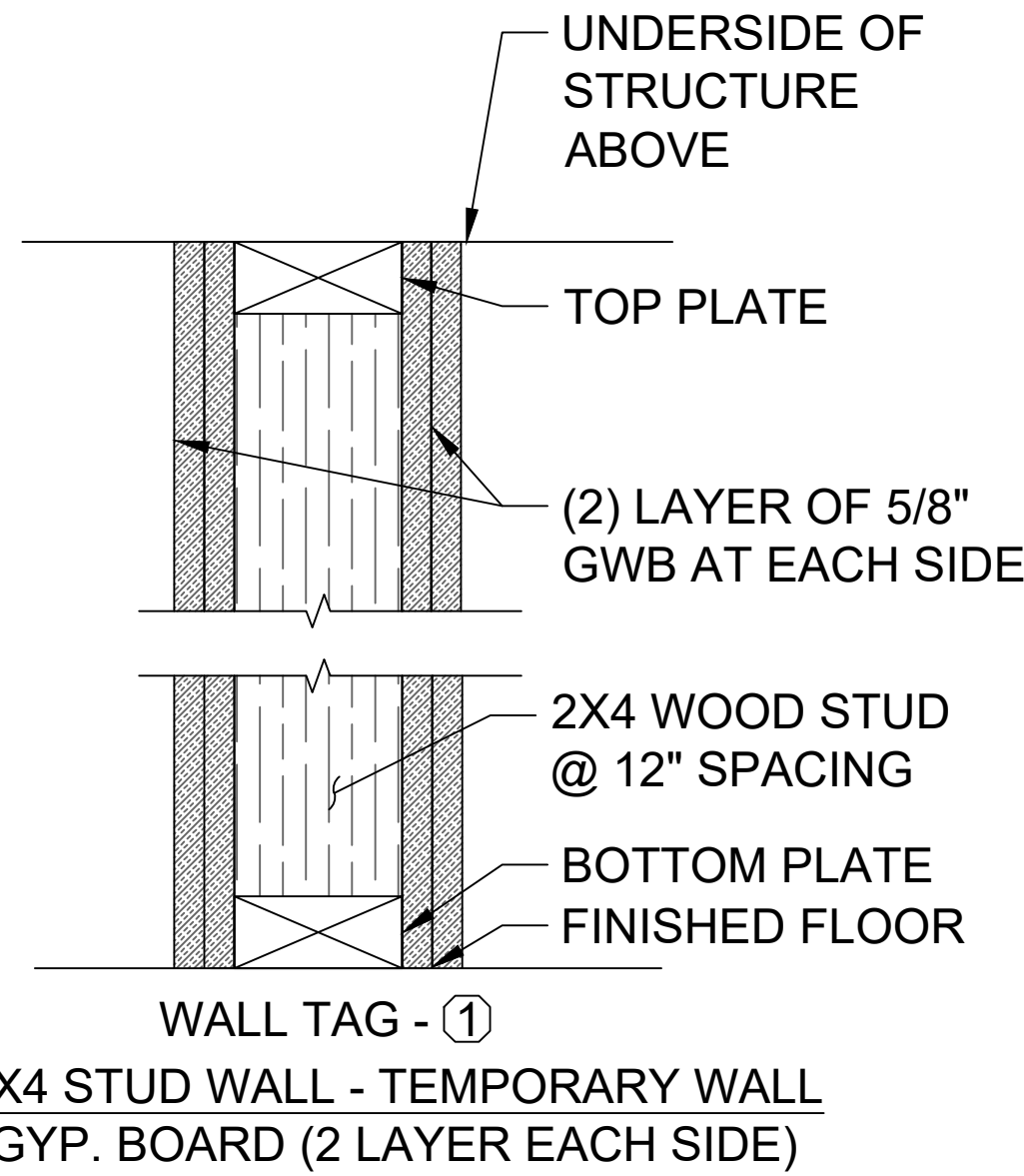
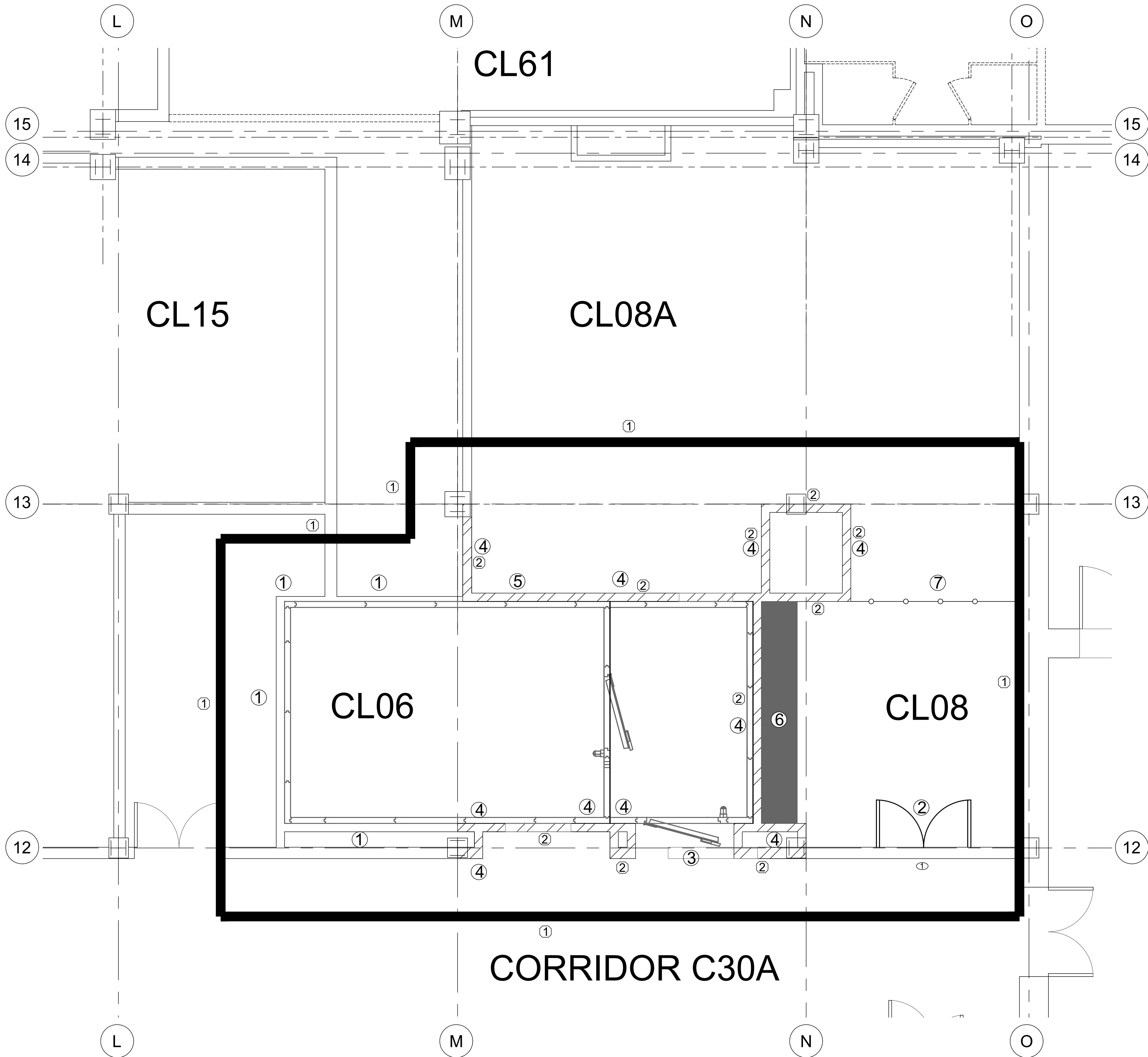
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3. SEE SHEET A501 FOR PROPOSED DOOR SCHEDULE AND DETAILS.



B7 PARTITION ASSEMBLY DESIGNATION DETAILS (TYP.) - 2 HR FIRE RATED

SCALE: NTS

KEYED NOTES	
①	CONTRACTOR TO PATCH WALL WHERE REQUIRED.
②	PROPOSED NEW DOOR AND FRAME TO MATCH EXISTING COMPOSITION AND COLOR PALETTE. CONTRACTOR TO REUSE EXISTING CARD READER FOR PROPOSED DOOR LOCATION. SEE DOOR SCHEDULE FOR ADDITIONAL DETAILS.
③	CONTRACTOR TO PROVIDE OPENING FOR PROPOSED COOLER DOOR.
④	PROPOSED WALL COMPOSITION TO MATCH EXISTING COMPOSITION OF MASONRY WALLS OR APPROVED EQUIVALENT. CONTRACTOR TO REMOVE TEMPORARY SHORING IMPLEMENTED DURING TRANSITIONAL PERIOD UPON COMPLETION OF FABRICATED WALLS.
⑤	CONTRACTOR TO RELOCATE EXISTING AIR CONDITIONING UNIT AND ASSOCIATED PIPING.
⑥	CONTRACTOR TO INSTALL 24" SOLID SURFACE MATERIAL COUNTER AND MOUNT AT STANDING HEIGHT (42" AFF).
⑦	CONTRACTOR TO MODIFY INTERIOR FENCING FOR ROOM CL08 TO MATCH EXISTING.
SYMBOL LEGEND	
2-HOUR CONSTRUCTION BARRIER	
COLUMN LINES	
PROPOSED WALLS	
PROPOSED INTERIOR FENCING	
PROPOSED SOLID SURFACE MATERIAL COUNTER	
PROPOSED NEW DOOR	
DOOR TAGS (SEE A501 FOR DOOR SCHEDULE)	
WALL TAGS (SEE B7/A101)	

F1 PROPOSED FLOOR PLAN

SCALE: 3/8" = 1'-0"

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

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ARCHITECTURAL PLAN

Phase
100% SUBMISSION

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AND WALK-IN FREEZER
REPLACEMENT

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Location
SYRACUSE VAMC, RM CL06

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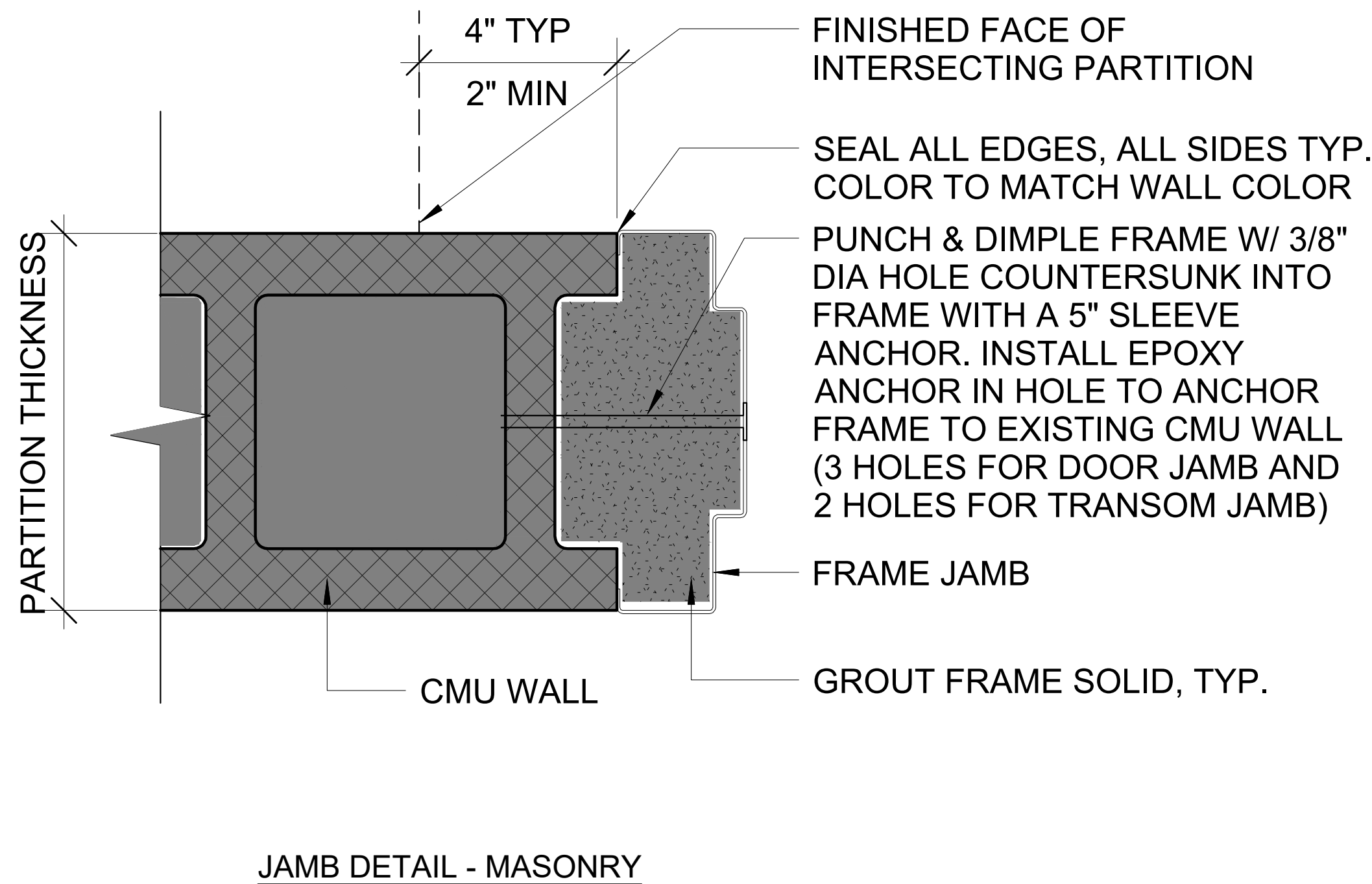
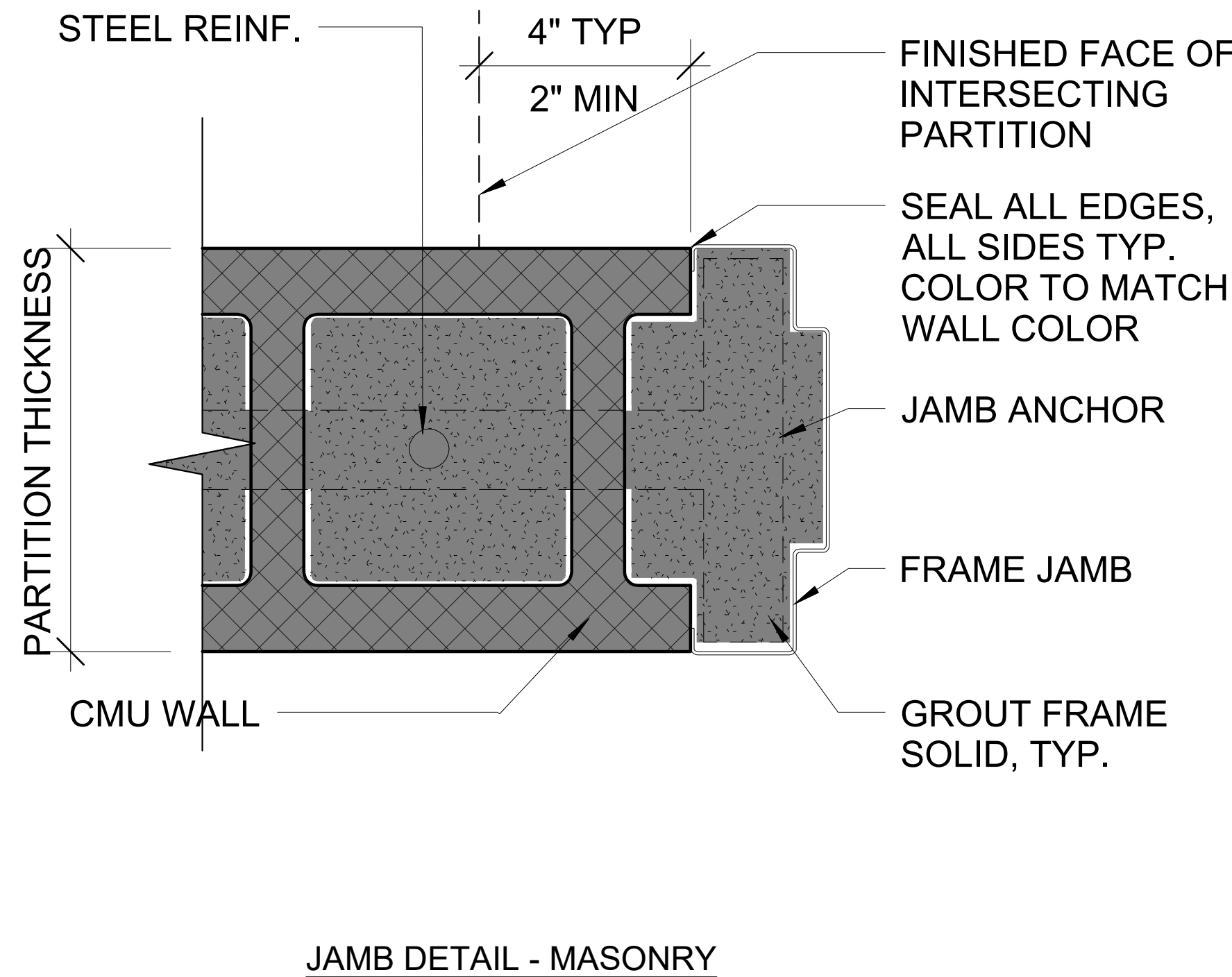
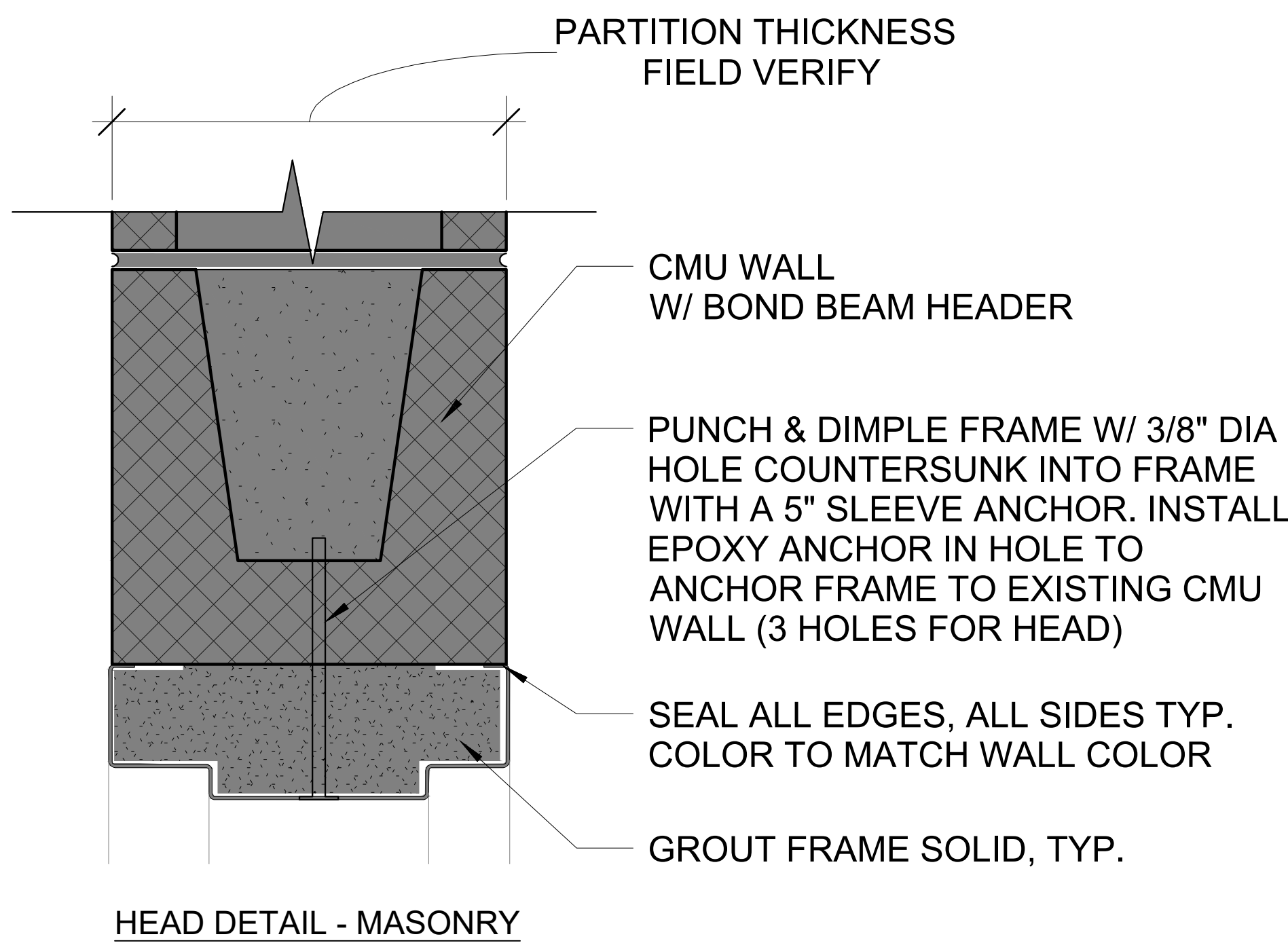
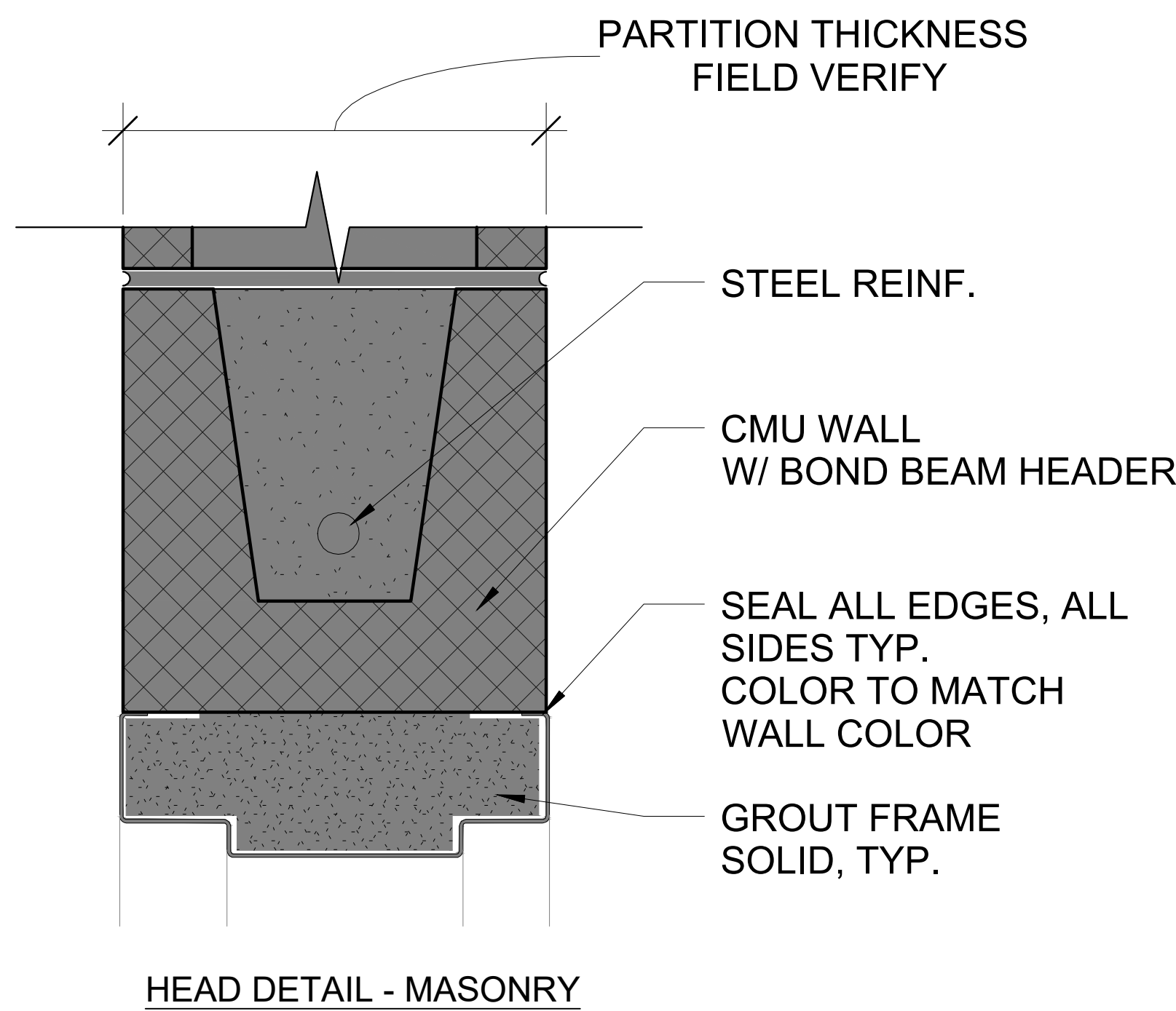
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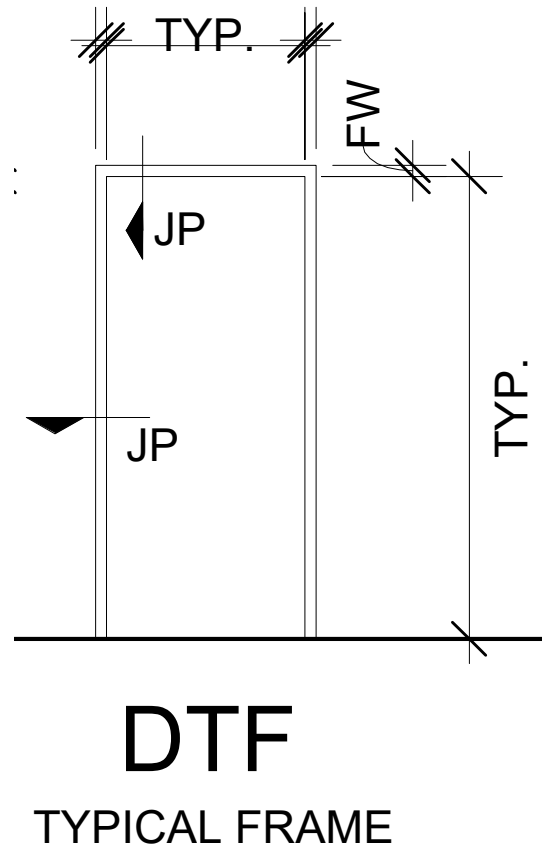
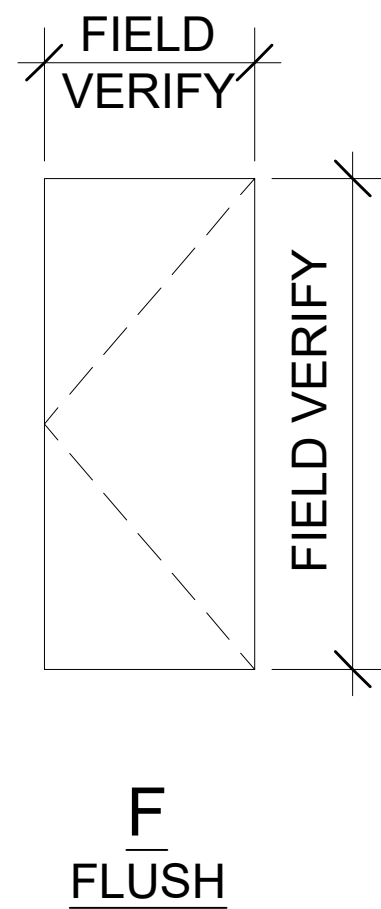
VA U.S. Department of Veterans Affairs

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F1 FRAMING INSTALLATION DETAILS (TYP.)

SCALE: NTS



C7 DOOR TYPES (TYP.)

SCALE: NTS

C9 FRAME TYPES - DOORS (TYP.)

SCALE: NTS

DOOR SCHEDULE														
DOOR NO	SIZE		DOORS			FRAMES						GLASS	HDWE GROUP	REMARKS
	WIDTH	HEIGHT	TYPE	MATERIAL	THICKNESS	TYPE	MATERIAL	HEAD DTL	JAMB DTL	SILL DTL	LABEL			
BASEMENT FLOOR														
CL06	3' - 6"	7' - 0"	VIF	VIF	1-3/4"	VIF	VIF	-	-	-	③	-	VIF	-
CL08	4' - 4 1/2"	7' - 0"	VIF	VIF	VIF	VIF	VIF	-	-	-	①	-	VIF	-
CL08A	7' - 0"	7' - 0"	VIF	VIF	VIF	VIF	VIF	-	-	-	②	-	VIF	-
DOOR SCHEDULE LEGEND														
HM	HOLLOW METAL													
VIF	CONTRACTOR TO VERIFY IN FIELD													
DOOR HARDWARE REMARKS														
1. ALL PROPOSED DOORS TO BE YALE 8800 SERIES OR APPROVED EQUIVALENT.														
DOOR SCHEDULE REMARKS														
1. DOOR IS TO BE EQUIPPED WITH CARD READER ACCESS														
2. PROVIDE AUTOMATIC OPERATORS														
3. PUSH PLATE OPERATOR														
4. DOOR SHALL COMPLY WITH NFPA 101, SECTION 18.2.2.2.6.														
5. CONTRACTOR SHALL MATCH EXISTING DOOR, FRAME AND HARDWARE AS CLOSELY AS POSSIBLE.														

E7 EXISTING DOOR SCHEDULE

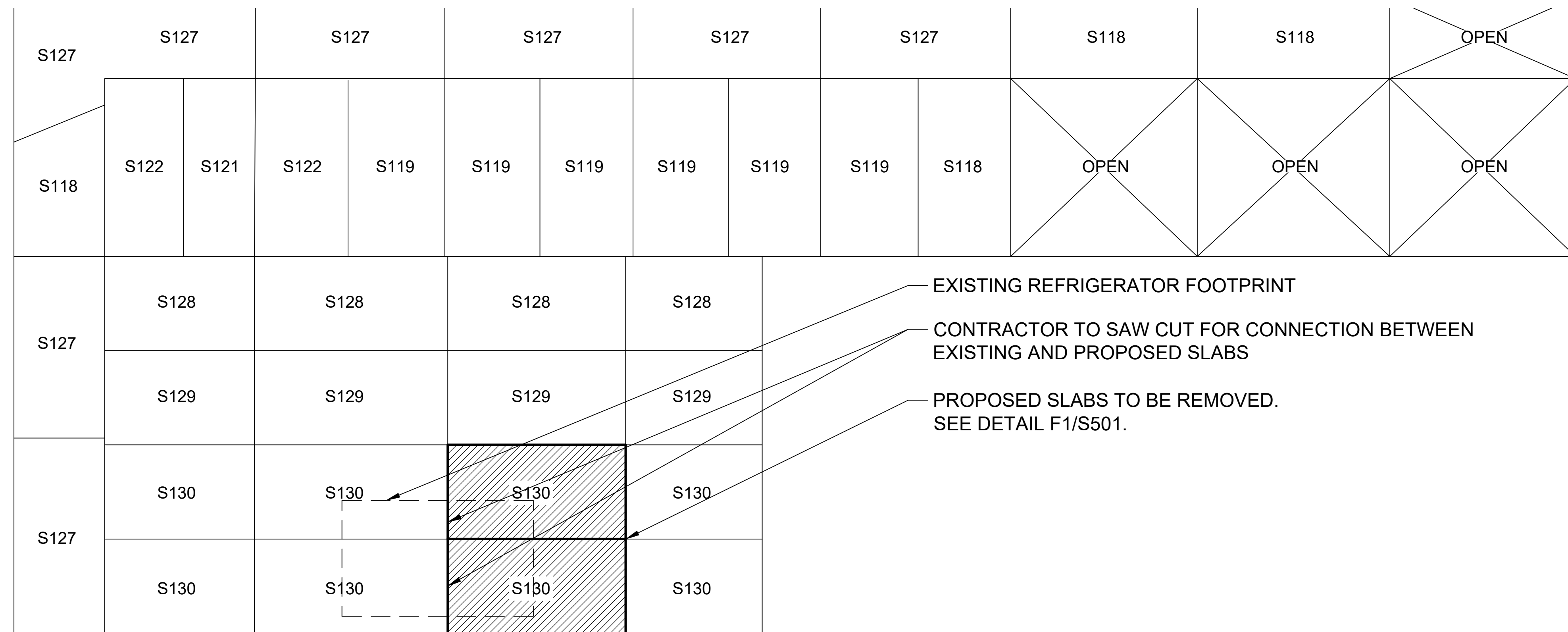
SCALE: NTS

DOOR SCHEDULE													
DOOR NO	SIZE		DOORS			FRAMES							
	WIDTH	HEIGHT	TYPE	MATERIAL	THICKNESS	TYPE	MATERIAL	HEAD DTL	JAMB DTL	SILL DTL	LABEL	GLASS	HDWE GROUP
BASEMENT FLOOR													
CL08	4' - 4 1/2"	7' - 0"	VLT	HM	1-3/4"	VIF	HM	D1/A501	D1/A501	-	①	-	1 1, 5

F7 PROPOSED DOOR SCHEDULE

SCALE: NTS

		CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	<div><div></div><div>U.S. Department of Veterans Affairs</div></div>	Drawing Title	DOOR SCHEDULE AND DETAILS	Phase	100% SUBMISSION	Project Title	CANTEEN FREEZER SLAB REPAIR AND WALK-IN FREEZER REPLACEMENT	Project Number	528A7-17-720											
														ENGINEER	WATSON ENGINEERING, PC 1112 STATE ROUTE 434 OWEGO, NY 13827 0: 607-223-4334		Approved: Project Director				Location	SYRACUSE VAMC, RM CL06	Drawing Number	A501
Revisions:	Date:																							

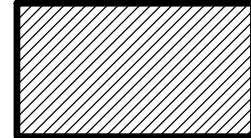









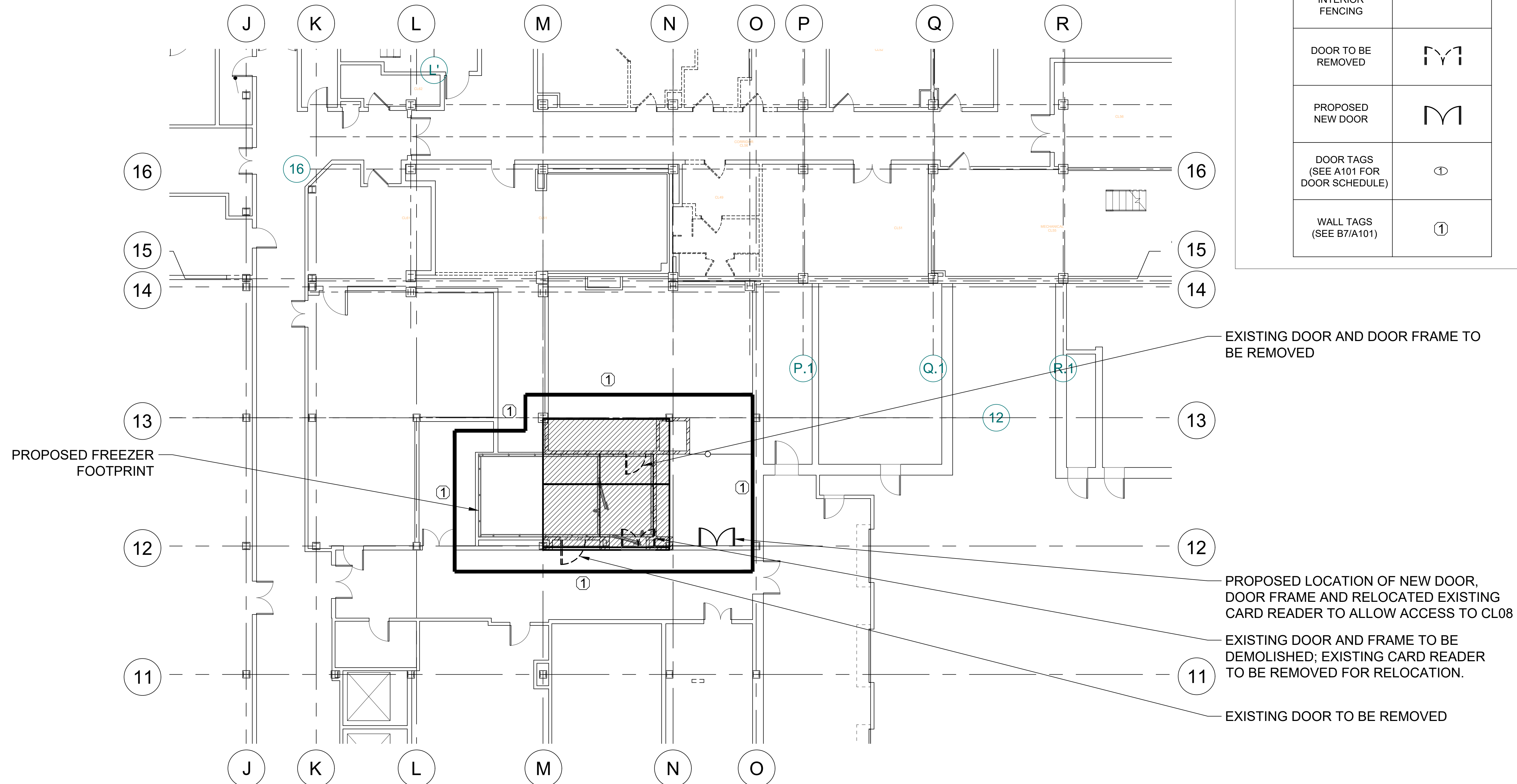
NOTES:

1. PLAN VIEW IS DRAWN BASED OFF OF AS-BUILT DRAWINGS FROM ORIGINAL DATE OF CONSTRUCTION.
2. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS. IF THERE ANY DEVIATION FROM THE DIMENSIONS SHOWN ON THESE DRAWINGS, CONTACT THE COR IMMEDIATELY.

C1 EXISTING BASEMENT SLAB LAYOUT

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

SLAB TO BE REMOVED & REPLACED	
2-HOUR CONSTRUCTION BARRIER	
COLUMN LINES	
PROPOSED INTERIOR FENCING	
DOOR TO BE REMOVED	
PROPOSED NEW DOOR	
DOOR TAGS (SEE A101 FOR DOOR SCHEDULE)	
WALL TAGS (SEE B7/A101)	



F1 PLAN VIEW OF PROPOSED SLABS
SCALE: 1/8" = 1'-0"

[illegible]

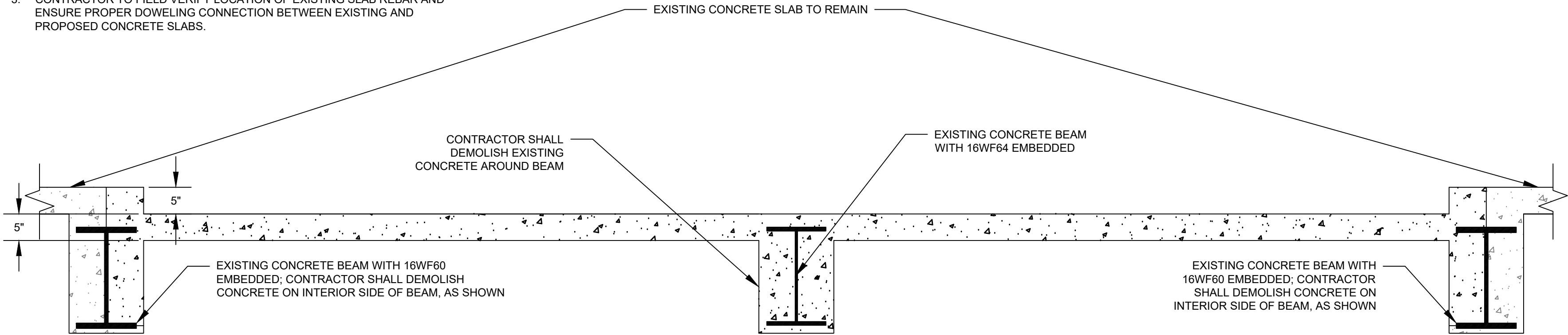
SCALE: NTS

SCALE: 3' = 1'-0"

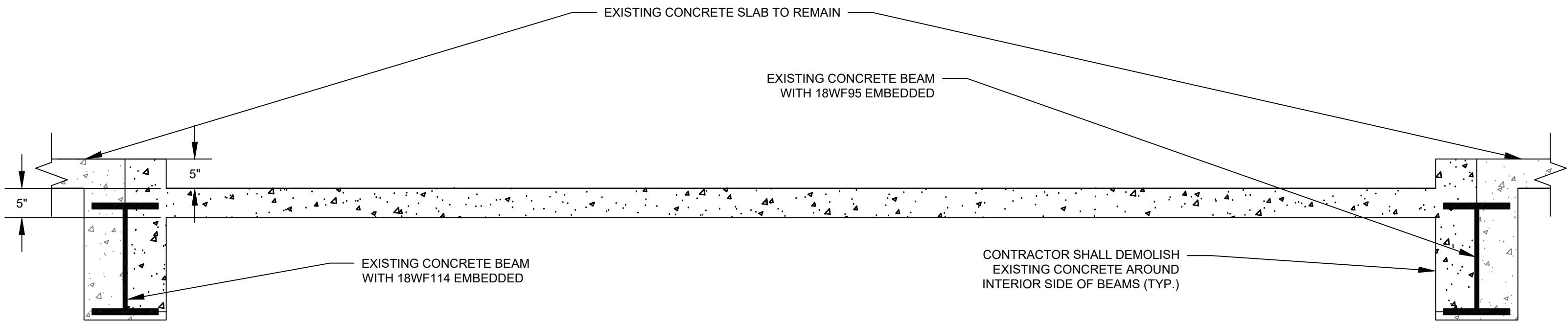
SCALE: 1/2" = 1'-0"

File Path

- NOTES:
- EXISTING BEAM DIMENSIONS ARE DRAWN BASED OFF OF AS-BUILT DRAWINGS PROVIDED BY GOVERNMENT. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS AND LOCATIONS FOR EXISTING BEAMS. IF THERE ANY DEVIATION FROM THE DIMENSIONS OR DETAILS SHOWN ON THESE DRAWINGS, CONTACT THE COR IMMEDIATELY.
 - CONCRETE F'C = 5,000 P.S.I. @ 28 DAYS WITH 5.0% - 9.0% ENTRAINMENT AIR.
 - CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING SLAB REBAR AND ENSURE PROPER DOWELING CONNECTION BETWEEN EXISTING AND PROPOSED CONCRETE SLABS.

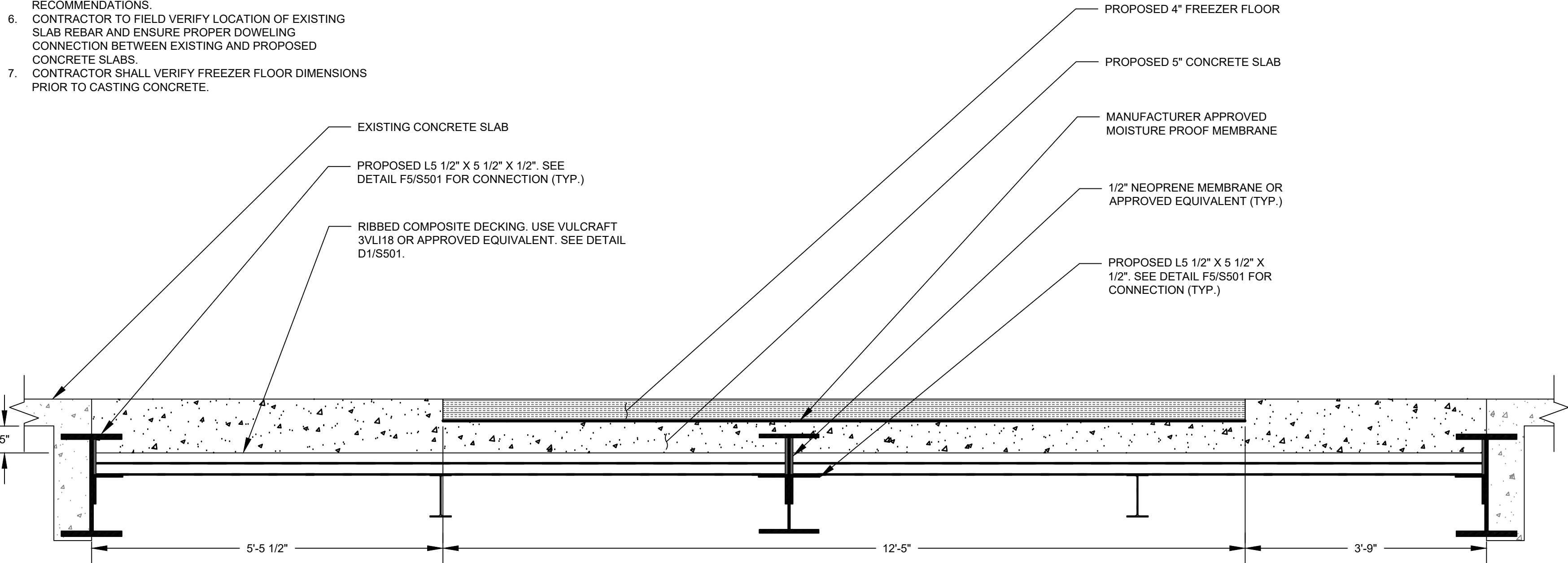


C1 A-A SECTION VIEW OF EXISTING SLAB
SCALE: 3/4" = 1'-0"



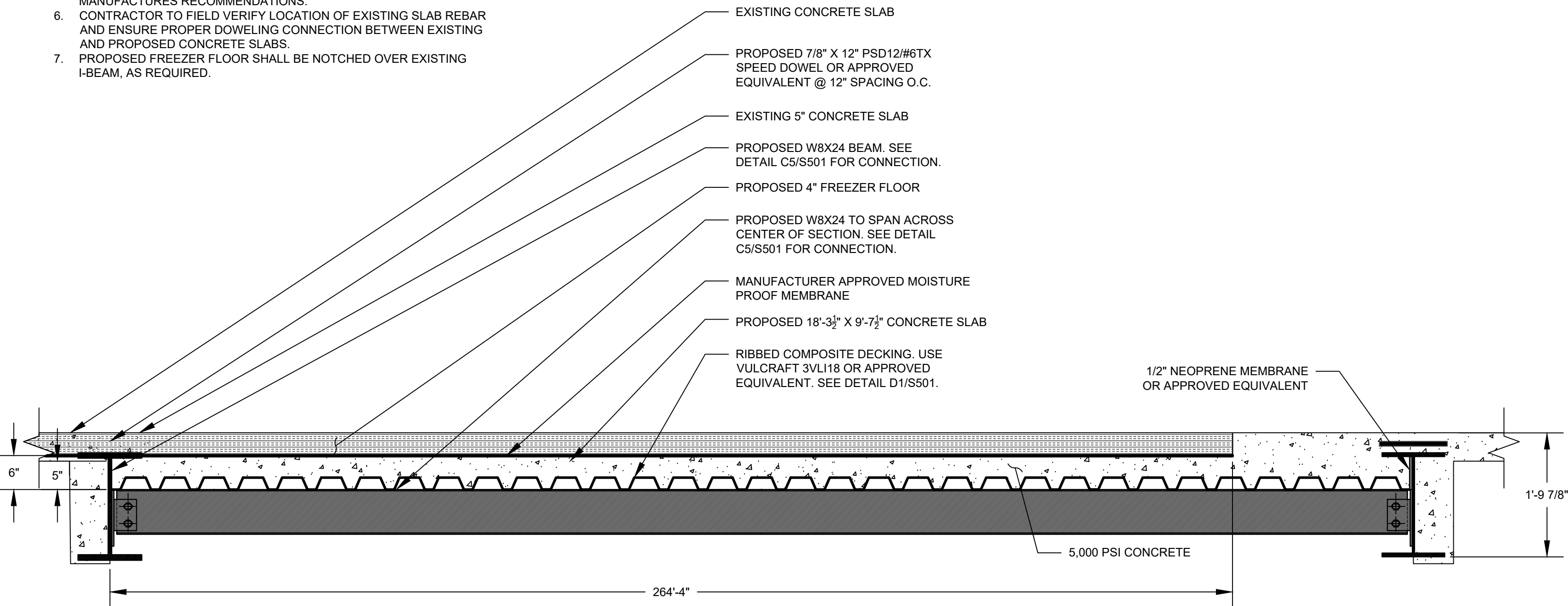
C5 B-B SECTION VIEW OF EXISTING SLAB
SCALE: 3/4" = 1'-0"

- NOTES:
- CONCRETE F'C = 5,000 P.S.I. @ 28 DAYS WITH 5.0% - 9.0% ENTRAINMENT AIR.
 - VULCRAFT EXTERIOR BEARING LENGTH OF 2.5 INCHES.
 - VULCRAFT INTERIOR BEARING LENGTH OF 5 INCHES.
 - SHEET STEEL FOR GALVANIZED DECK SHALL CONFORM TO ASTM A653 (A653M) STRUCTURAL QUALITY, WITH MINIMUM YIELD STRENGTH OF 33 PSI (230 MPa).
 - CONTRACTOR TO ADD 6 X 6 - W1.4 X W1.4 REINFORCING MESH IN UPPER THIRD OF CONCRETE ABOVE THE COMPOSITE DECK PER MANUFACTURES RECOMMENDATIONS.
 - CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING SLAB REBAR AND ENSURE PROPER DOWELING CONNECTION BETWEEN EXISTING AND PROPOSED CONCRETE SLABS.
 - CONTRACTOR SHALL VERIFY FREEZER FLOOR DIMENSIONS PRIOR TO CASTING CONCRETE.



F1 A-A SECTION VIEW OF PROPOSED SLAB
SCALE: 3/4" = 1'-0"

- NOTES:
- CONCRETE F'C = 5,000 P.S.I. @ 28 DAYS WITH 5.0% - 9.0% ENTRAINMENT AIR.
 - VULCRAFT EXTERIOR BEARING LENGTH OF 2.5 INCHES.
 - VULCRAFT INTERIOR BEARING LENGTH OF 5 INCHES.
 - SHEET STEEL FOR GALVANIZED DECK SHALL CONFORM TO ASTM A653 (A653M) STRUCTURAL QUALITY, WITH MINIMUM YIELD STRENGTH OF 33 PSI (230 MPa).
 - CONTRACTOR TO ADD 6 X 6 - W1.4 X W1.4 REINFORCING MESH IN UPPER THIRD OF CONCRETE ABOVE THE COMPOSITE DECK PER MANUFACTURES RECOMMENDATIONS.
 - CONTRACTOR TO FIELD VERIFY LOCATION OF EXISTING SLAB REBAR AND ENSURE PROPER DOWELING CONNECTION BETWEEN EXISTING AND PROPOSED CONCRETE SLABS.
 - PROPOSED FREEZER FLOOR SHALL BE NOTCHED OVER EXISTING I-BEAM, AS REQUIRED.



F5 B-B SECTION VIEW OF PROPOSED SLAB
SCALE: 3/4" = 1'-0"

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

ENGINEER
WATSON ENGINEERING, PC
1112 STATE ROUTE 434
OWEGO, NY 13827
0: 607-223-4334

STAMP

Drawing Title
STRUCTURAL SECTION VIEWS

Approved: Project Director

Phase
100% SUBMISSION

Project Title
CANTEEN FREEZER SLAB REPAIR AND WALK-IN FREEZER REPLACEMENT

Location
SYRACUSE VAMC, RM CL06

Issue Date
4-27-18

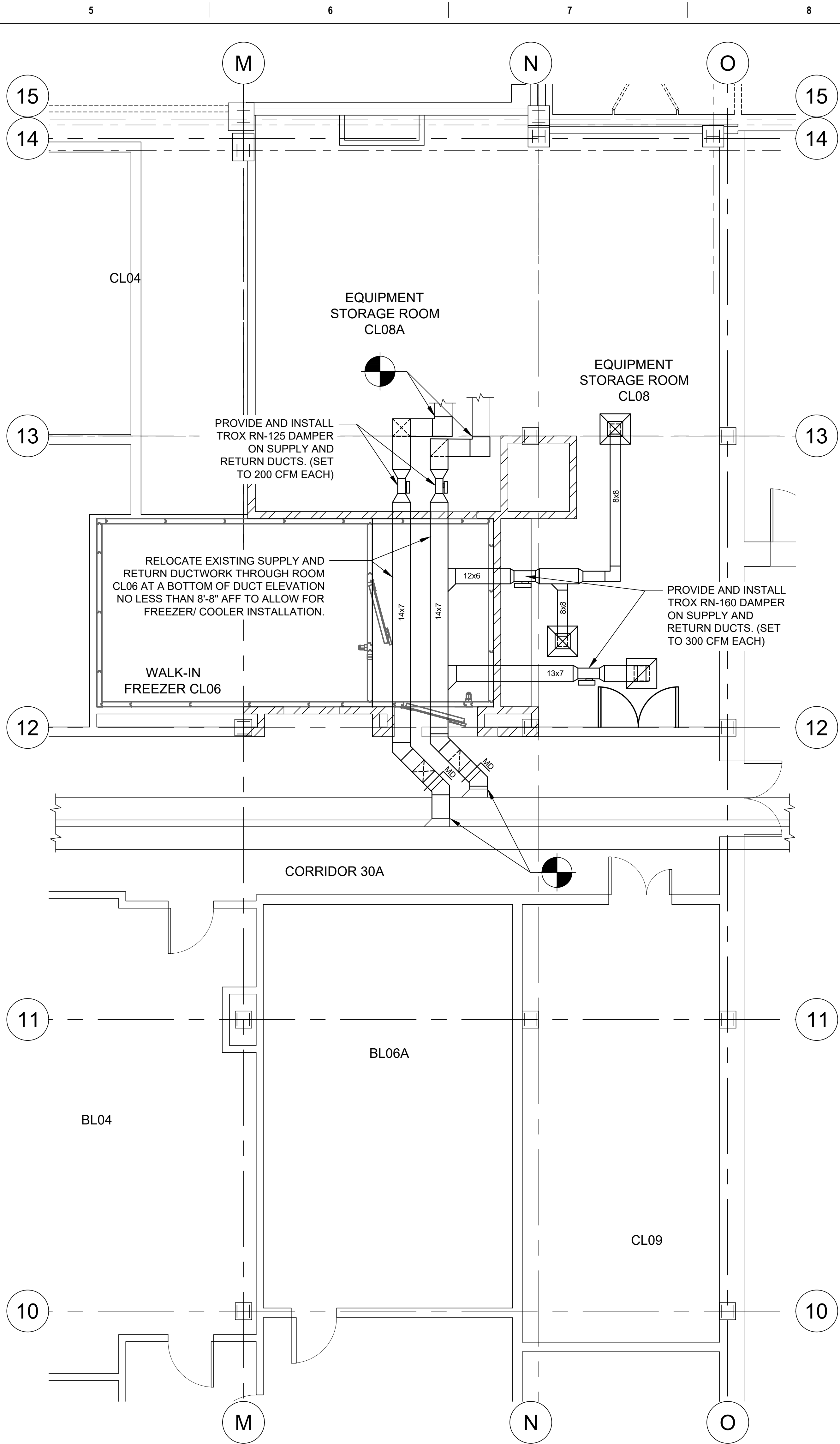
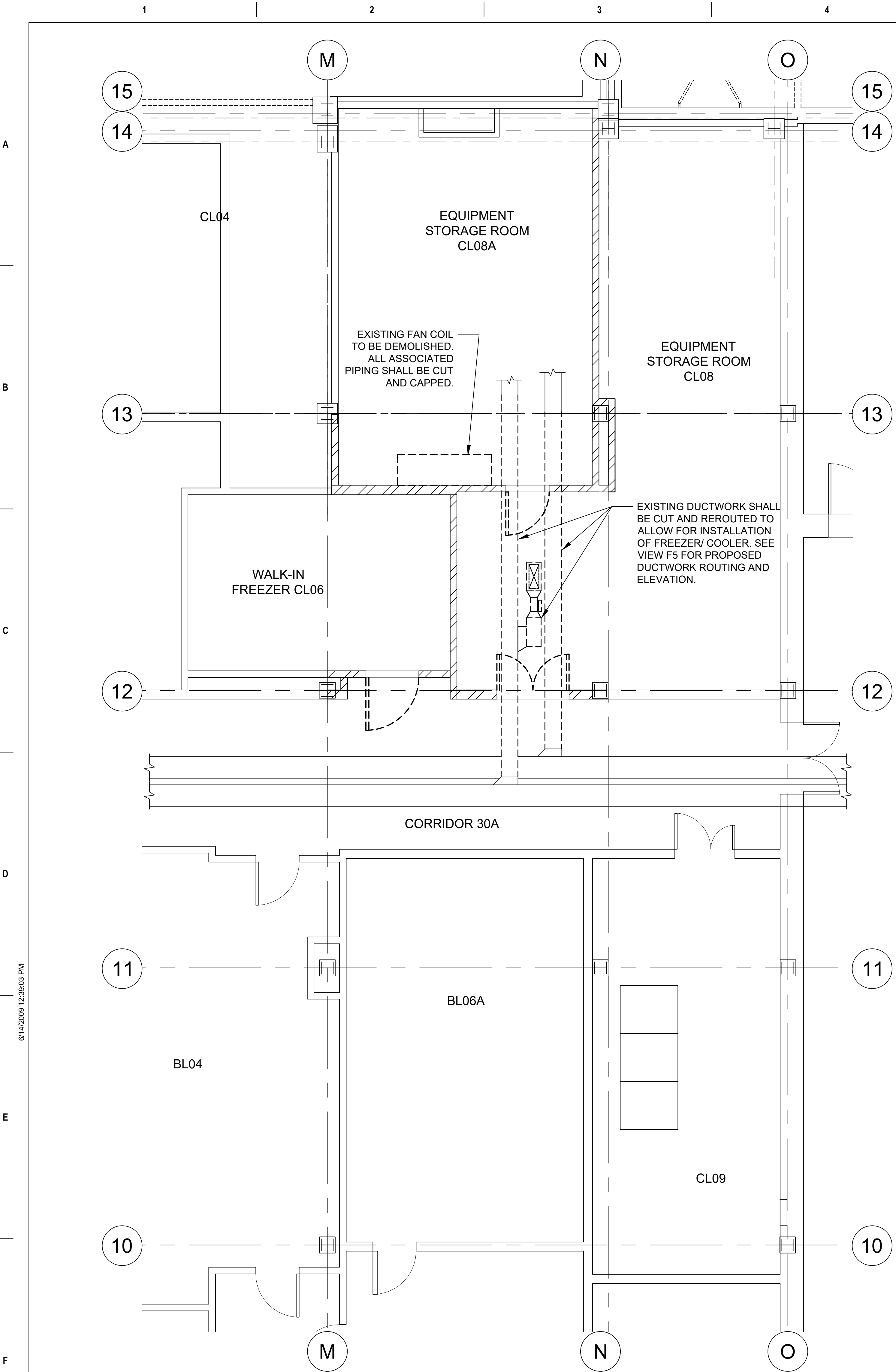
Checked
JWE

Drawn
MPL

Project Number
528A7-17-720

Building Number
1

Drawing Number
S502



MECHANICAL DEMOLITION NOTES:

- ALL AREAS OF THE BUILDING AFFECTED BY MECHANICAL DEMOLITION WORK SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT FINAL FINISHES. THE REPAIR WORK SHALL BE DONE TO THE OWNER'S SATISFACTION.
- DEMOLITION WORK SHALL INCLUDE REMOVAL OF EXISTING BUILDING CONSTRUCTION TO EXTENT REQUIRED TO PERFORM NEW CONSTRUCTION ACTIVITIES INDICATED.
- REMOVE ALL EXISTING MECHANICAL SYSTEM COMPONENTS, MATERIALS, APPARATUS, AND APPLIANCES WITHIN THE DESIGNATED PROJECT AREA, UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, FIRE PROTECTION, AND PLUMBING CONTRACT DOCUMENTS FOR ADDITIONAL SCOPE OF WORK FOR SYSTEMS TO BE REMOVED OR RETAINED TO EXTENT REQUIRED TO PERFORM NEW CONSTRUCTION ACTIVITIES INDICATED.
- THE DEMOLITION PROCEDURES SHALL PROVIDE FOR SAFE CONDUCT OF THE WORK, PROTECTION OF PERSONNEL, CAREFUL REMOVAL AND OTHER DISPOSITION OF MATERIALS SPECIFIED TO BE SALVAGED. PROTECTION OF PROPERTY TO REMAIN UNDISTURBED, COORDINATION WITH OTHER WORK IN PROGRESS, AND TIMELY DISCONNECTION OF UTILITY SERVICES.
- EXISTING WORK SHALL BE CUT, DRILLED, ALTERED, REMOVED, OR TEMPORARILY REMOVED AND REPLACED FOR PERFORMANCE OF WORK UNDER THE CONTRACT. WORK REPLACED SHALL MATCH SIMILAR EXISTING WORK. STRUCTURAL MEMBERS OF CONCRETE OR STRUCTURAL STEEL SHALL NOT BE CUT OR ALTERED, EXCEPT AS SHOWN, WITHOUT AUTHORIZATION OF THE ENGINEER. WORK REMAINING IN PLACE DAMAGED OR DEFACED DURING THIS CONTRACT SHALL BE RESTORED TO THE CONDITION AT TIME OF AWARD OF CONTRACT. CUT, ALTER, REMOVE, OR TEMPORARILY REMOVE AND REPLACE EXISTING WORK FOR INSTALLATION OF ELECTRICAL WORK.

GENERAL MECHANICAL NOTES:

- ALL MECHANICAL WORK SHALL BE DONE IN ACCORDANCE WITH ALL LOCAL AND STATE REGULATIONS FOR THE STATE OF NEW YORK.
- CONTRACTOR SHALL COORDINATE EXACT LOCATION OF DUCTWORK AND DIFFUSERS WITH LIGHTS, EQUIPMENT, AND CEILING GRID.
- DRAWINGS ARE DIAGRAMMATIC AND GENERALLY INDICATIVE OF THE WORK. ALL SYSTEMS SHALL FOLLOW ARRANGEMENT AS MUCH AS POSSIBLE, HOWEVER, ACTUAL FIELD CONDITIONS SHALL DICTATE. PROVIDE NECESSARY MODIFICATIONS TO MEET FIELD CONDITIONS AND AVOID CONFLICT WITH OTHER TRADES. IF RESOLUTION CANNOT BE REACHED WITHOUT COMPROMISING THE DESIGN, THESE CONFLICTS SHALL BE PRESENTED TO THE ENGINEER FOR RESOLUTION. IN CONFLICT AREAS, COMPLETE ONLY WORK NOT AFFECTED BY THE CONFLICT PRIOR TO RESOLUTION.
- CONNECTIONS TO EQUIPMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATIONS.
- ALL HANGER SYSTEMS FOR PIPING AND EQUIPMENT SHALL BE SECURED TO BUILDING STRUCTURAL SYSTEM.
- ALL DUCT DIMENSIONS SHALL BE FIELD VERIFIED.
- PROVIDE AIR TURNING VANES IN ALL SQUARE ELBOWS.
- PROVIDE ACCESS PANELS IN DUCTWORK AND CEILINGS WHERE REQUIRED FOR OPERATION AND MAINTENANCE OF ALL FANS, DAMPERS, AIR-DEFLECTING DEVICES, AND OTHER MECHANICAL EQUIPMENT.
- PROVIDE FLEXIBLE DUCT CONNECTIONS ON ALL DUCTS CONNECTING TO FANS AND ALL OTHER MECHANICAL EQUIPMENT INCORPORATING FANS.
- PROVIDE A MANUAL VOLUME DAMPER ON SUPPLY AND RETURN DUCTS AT THE CONNECTION POINT TO THE EXISTING SYSTEM.

F2 MECHANICAL DUCTWORK DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"

F5 PROPOSED MECHANICAL DUCTWORK FLOOR PLAN
SCALE: 1/4" = 1'-0"

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

ENGINEER
WATSON ENGINEERING, PC
1112 STATE ROUTE 434
OWEGO, NY 13827
0: 607-223-4334

STAMP



U.S. Department
of Veterans Affairs

Drawing Title

MECHANICAL
DUCTWORK PLAN

Approved: Project Director

Phase

100% SUBMISSION

Project Title

CANTEEN FREEZER SLAB REPAIR
AND WALK-IN FREEZER
REPLACEMENT

Location

SYRACUSE VAMC, RM CL06

Issue Date

4-27-18

Checked

JWE

Drawn

MPL

Project Number

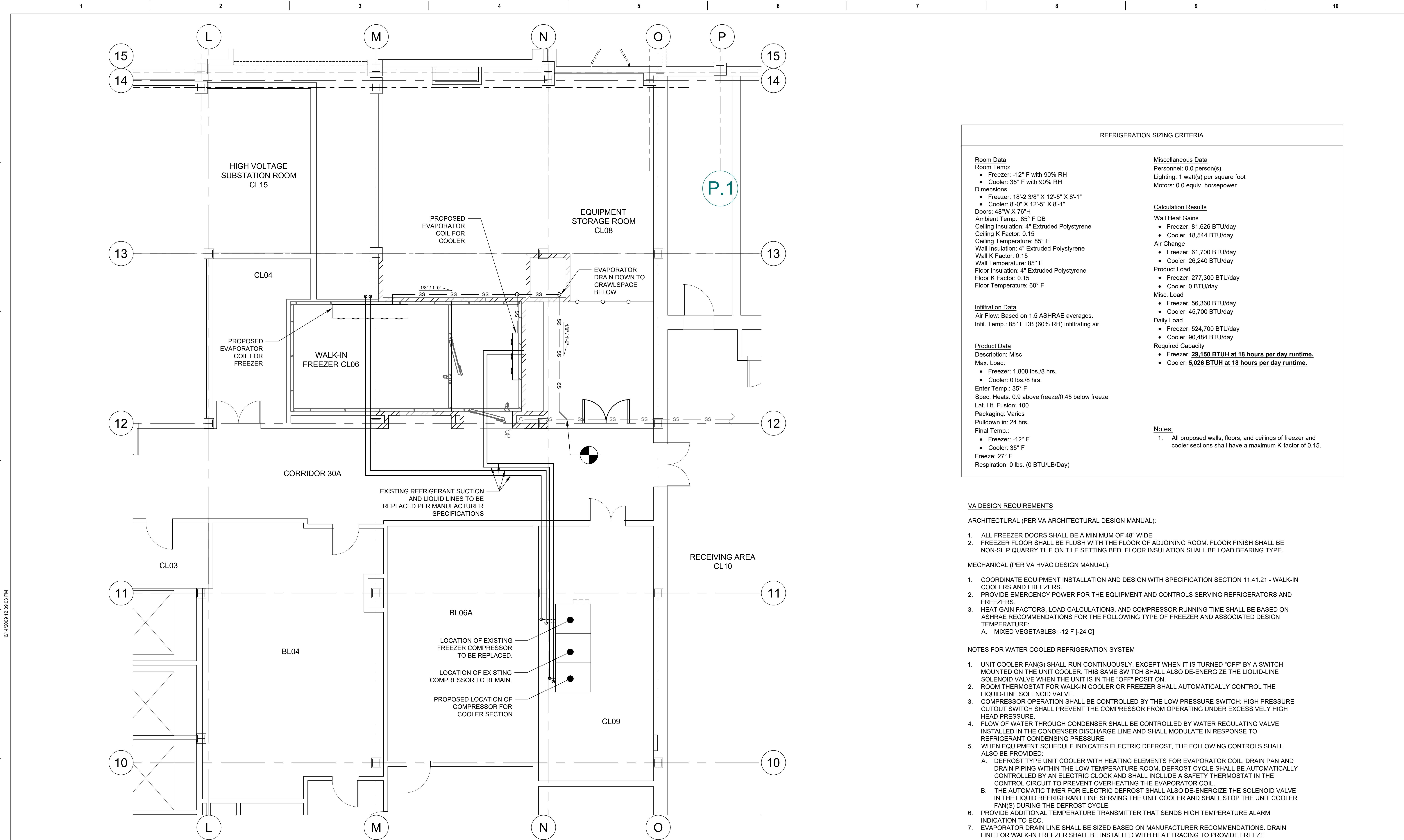
528A7-17-720

Building Number

1

Drawing Number

M101



REFRIGERATION SIZING CRITERIA	
<p>Room Data</p> <p>Room Temp:</p> <ul style="list-style-type: none">Freezer: -12° F with 90% RHCooler: 35° F with 90% RH <p>Dimensions</p> <ul style="list-style-type: none">Freezer: 18'-2 3/8" X 12'-5" X 8'-1"Cooler: 8'-0" X 12'-5" X 8'-1" <p>Doors: 48"W X 76"H</p> <p>Ambient Temp.: 85° F DB</p> <p>Ceiling Insulation: 4" Extruded Polystyrene</p> <p>Ceiling K Factor: 0.15</p> <p>Ceiling Temperature: 85° F</p> <p>Wall Insulation: 4" Extruded Polystyrene</p> <p>Wall K Factor: 0.15</p> <p>Wall Temperature: 85° F</p> <p>Floor Insulation: 4" Extruded Polystyrene</p> <p>Floor K Factor: 0.15</p> <p>Floor Temperature: 60° F</p> <p>Infiltration Data</p> <p>Air Flow: Based on 1.5 ASHRAE averages.</p> <p>Infil. Temp.: 85° F DB (60% RH) infiltrating air.</p> <p>Product Data</p> <p>Description: Misc</p> <p>Max. Load:</p> <ul style="list-style-type: none">Freezer: 1,808 lbs./8 hrs.Cooler: 0 lbs./8 hrs. <p>Enter Temp.: 35° F</p> <p>Spec. Heats: 0.9 above freeze/0.45 below freeze</p> <p>Lat. Ht. Fusion: 100</p> <p>Packaging: Varies</p> <p>Pulldown in: 24 hrs.</p> <p>Final Temp.:</p> <ul style="list-style-type: none">Freezer: -12° FCooler: 35° F <p>Freeze: 27° F</p> <p>Respiration: 0 lbs. (0 BTU/LB/Day)</p>	<p>Miscellaneous Data</p> <p>Personnel: 0.0 person(s)</p> <p>Lighting: 1 watt(s) per square foot</p> <p>Motors: 0.0 equiv. horsepower</p> <p>Calculation Results</p> <p>Wall Heat Gains</p> <ul style="list-style-type: none">Freezer: 81,626 BTU/dayCooler: 18,544 BTU/day <p>Air Change</p> <ul style="list-style-type: none">Freezer: 61,700 BTU/dayCooler: 26,240 BTU/day <p>Product Load</p> <ul style="list-style-type: none">Freezer: 277,300 BTU/dayCooler: 0 BTU/day <p>Misc. Load</p> <ul style="list-style-type: none">Freezer: 56,360 BTU/dayCooler: 45,700 BTU/day <p>Daily Load</p> <ul style="list-style-type: none">Freezer: 524,700 BTU/dayCooler: 90,484 BTU/day <p>Required Capacity</p> <ul style="list-style-type: none">Freezer: 29,150 BTUH at 18 hours per day runtime.Cooler: 5,026 BTUH at 18 hours per day runtime. <p>Notes:</p> <ol style="list-style-type: none">All proposed walls, floors, and ceilings of freezer and cooler sections shall have a maximum K-factor of 0.15.

VA DESIGN REQUIREMENTS

ARCHITECTURAL (PER VA ARCHITECTURAL DESIGN MANUAL):

- ALL FREEZER DOORS SHALL BE A MINIMUM OF 48" WIDE
- FREEZER FLOOR SHALL BE FLUSH WITH THE FLOOR OF ADJOINING ROOM. FLOOR FINISH SHALL BE NON-SLIP QUARRY TILE ON TILE SETTING BED. FLOOR INSULATION SHALL BE LOAD BEARING TYPE.

MECHANICAL (PER VA HVAC DESIGN MANUAL):

- COORDINATE EQUIPMENT INSTALLATION AND DESIGN WITH SPECIFICATION SECTION 11.41.21 - WALK-IN COOLERS AND FREEZERS.
- PROVIDE EMERGENCY POWER FOR THE EQUIPMENT AND CONTROLS SERVING REFRIGERATORS AND FREEZERS.
- HEAT GAIN FACTORS, LOAD CALCULATIONS, AND COMPRESSOR RUNNING TIME SHALL BE BASED ON ASHRAE RECOMMENDATIONS FOR THE FOLLOWING TYPE OF FREEZER AND ASSOCIATED DESIGN TEMPERATURE:
A. MIXED VEGETABLES: -12 F [-24 C]

NOTES FOR WATER COOLED REFRIGERATION SYSTEM

- UNIT COOLER FAN(S) SHALL RUN CONTINUOUSLY, EXCEPT WHEN IT IS TURNED "OFF" BY A SWITCH MOUNTED ON THE UNIT COOLER. THIS SAME SWITCH SHALL ALSO DE-ENERGIZE THE LIQUID-LINE SOLENOID VALVE WHEN THE UNIT IS IN THE "OFF" POSITION.
- ROOM THERMOSTAT FOR WALK-IN COOLER OR FREEZER SHALL AUTOMATICALLY CONTROL THE LIQUID-LINE SOLENOID VALVE.
- COMPRESSOR OPERATION SHALL BE CONTROLLED BY THE LOW PRESSURE SWITCH: HIGH PRESSURE CUTOUT SWITCH SHALL PREVENT THE COMPRESSOR FROM OPERATING UNDER EXCESSIVELY HIGH HEAD PRESSURE.
- FLOW OF WATER THROUGH CONDENSER SHALL BE CONTROLLED BY WATER REGULATING VALVE INSTALLED IN THE CONDENSER DISCHARGE LINE AND SHALL MODULATE IN RESPONSE TO REFRIGERANT CONDENSING PRESSURE.
- WHEN EQUIPMENT SCHEDULE INDICATES ELECTRIC DEFROST, THE FOLLOWING CONTROLS SHALL ALSO BE PROVIDED:
A. DEFROST TYPE UNIT COOLER WITH HEATING ELEMENTS FOR EVAPORATOR COIL, DRAIN PAN AND DRAIN PIPING WITHIN THE LOW TEMPERATURE ROOM. DEFROST CYCLE SHALL BE AUTOMATICALLY CONTROLLED BY AN ELECTRIC CLOCK AND SHALL INCLUDE A SAFETY THERMOSTAT IN THE CONTROL CIRCUIT TO PREVENT OVERHEATING THE EVAPORATOR COIL.
B. THE AUTOMATIC TIMER FOR ELECTRIC DEFROST SHALL ALSO DE-ENERGIZE THE SOLENOID VALVE IN THE LIQUID REFRIGERANT LINE SERVING THE UNIT COOLER AND SHALL STOP THE UNIT COOLER FAN(S) DURING THE DEFROST CYCLE.
- PROVIDE ADDITIONAL TEMPERATURE TRANSMITTER THAT SENDS HIGH TEMPERATURE ALARM INDICATION TO ECC.
- EVAPORATOR DRAIN LINE SHALL BE SIZED BASED ON MANUFACTURER RECOMMENDATIONS. DRAIN LINE FOR WALK-IN FREEZER SHALL BE INSTALLED WITH HEAT TRACING TO PROVIDE FREEZE PROTECTION.

F2 PROPOSED MECHANICAL REFRIGERATION FLOOR PLAN
SCALE: 1/4" = 1'-0"

		CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	U.S. Department of Veterans Affairs	Drawing Title	Phase	Project Title	Project Number
			ENGINEER WATSON ENGINEERING, PC 1112 STATE ROUTE 434 OWEGO, NY 13827 0: 607-223-4334			PROPOSED MECHANICAL REFRIGERATION PLAN	100% SUBMISSION	CANTEEN FREEZER SLAB REPAIR AND WALK-IN FREEZER REPLACEMENT	528A7-17-720
						Approved: Project Director		Location SYRACUSE VAMC, RM CL06	Building Number 1
								Issue Date 4-27-18	Drawing Number M102
								Checked JWE	Drawn MPL

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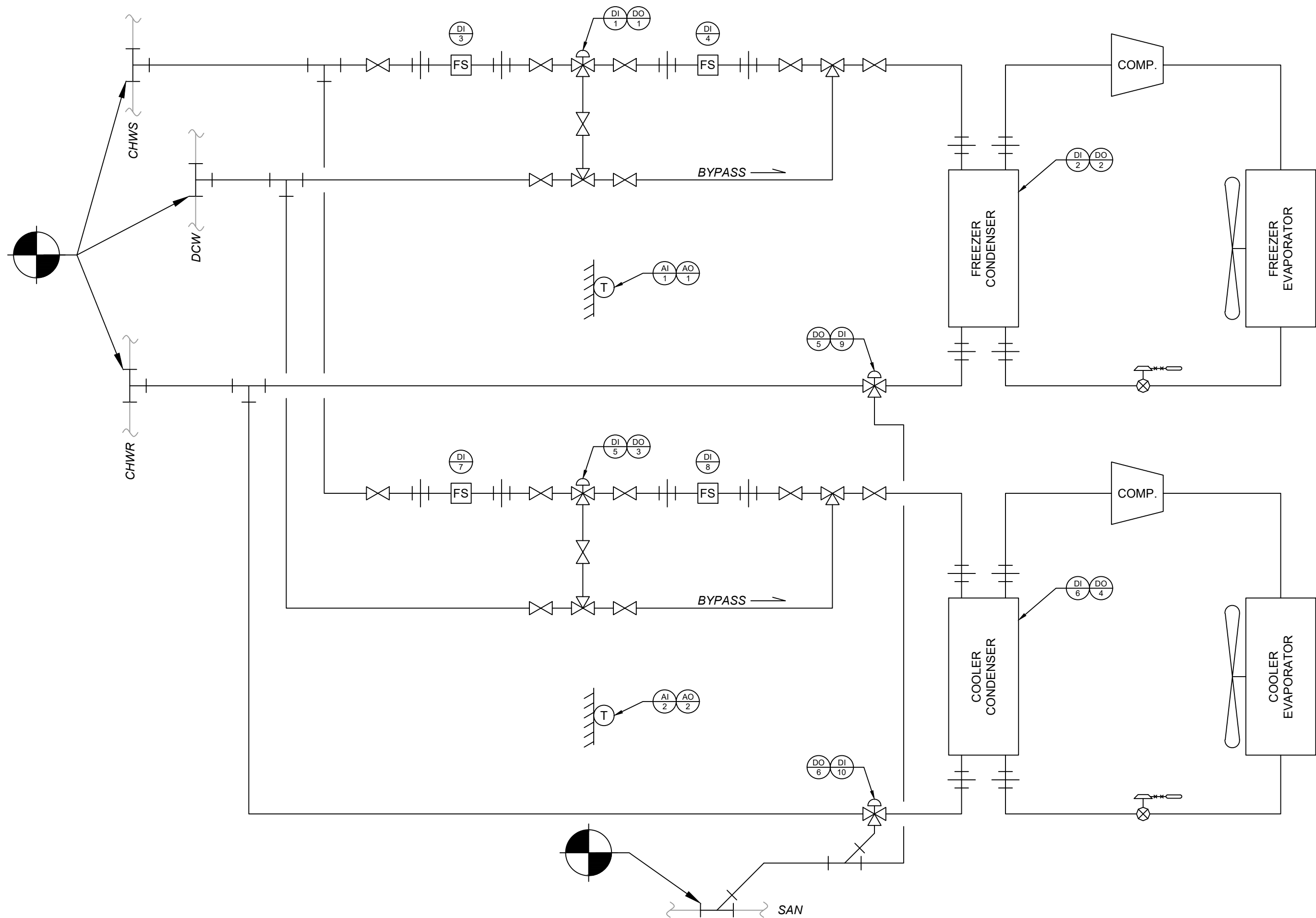
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WATER COOLED CONDENSING UNIT SCHEDULE															
	SPACE DESIGN			SYSTEM DESIGN			EVAPORATOR BASIS OF DESIGN						ELECTRICAL		
UNIT	CLASSIFICATION	DESIGN TEMPERATURE	DAILY TOTAL	CAPACITY	RUN TIME	REFRIGERANT	NUMBER OF EVAPORATORS	UPPER SUCTION TEMP	UPPER SUCTION CAPACITY	LOWER SUCTION TEMP	LOWER SUCTION CAPACITY	SUCTION TEMPERATURE	VOLTAGE	PHASE	FREQ.
		(°F)	(BTU/DAY)	(BTUH)	(HRS/DAY)			(°F)	(BTUH)	(°F)	(BTUH)	(°F)	VOLTS	Hz	
COOLER	REFRIGERATED VESTIBULE	35	104490	5805	18	R404A	1	30	6480	20	5270	24	208	3	60
FREEZER	MIXED VEGETABLES	-12	524700	29150	18	R404A	1	-10	36440	-20	27930	-15	208	3	60

NOTES:

1. SPACE CLASSIFICATIONS ARE BASED ON ASHRAE HANDBOOK
2. SEE DETAILED CALCULATIONS FOR SPACE AND SYSTEM DESIGN RESULTS
3. CONTRACTOR SHALL PROVIDE CALCULATIONS FROM MANUFACTURER TO SUPPORT FINAL EQUIPMENT SELECTION



DDC POINTS LIST			
POINT TYPE	POINT #	DESCRIPTION	ALARM TO BAS
AI	1	FREEZER TEMPERATURE	YES
	2	COOLER TEMPERATURE	YES
AO	1	FREEZER TEMPERATURE SETPOINT	
	2	COOLER TEMPERATURE SETPOINT	
DI	1	THREE-WAY VALVE POSITION	
	2	EVAPORATOR STATUS	
	3	FLOW DETECTION SENSOR	YES
	4	FLOW DETECTION SENSOR	YES
	5	THREE-WAY VALVE POSITION	
	6	EVAPORATOR STATUS	
DO	7	FLOW DETECTION SENSOR	YES
	8	FLOW DETECTION SENSOR	YES
	9	THREE-WAY VALVE POSITION	
	10	THREE-WAY VALVE POSITION	
	1	VALVE OPEN/CLOSE	
	2	EVAPORATOR ON/OFF	

- NOTES:
1. ALARMS ON FLOW DETECTION SENSORS SHALL SEND AN ALERT SIGNAL TO THE BAS SYSTEM IF THERE IS AN UNEXPECTED LACK OF FLOW THROUGH THE SENSOR.
 2. ALL VALVES SHALL EITHER BE FULLY OPEN OR FULLY CLOSED.
 3. THREE-WAY CONTROL VALVES SHALL FAIL "OPEN" TO ALLOW THE FLOW OF DOMESTIC WATER AS AN EMERGENCY SOURCE OF WATER.
 4. IF THE TEMPERATURE RISES TO 5°F (ADJUSTABLE) ABOVE THE SETPOINT TEMPERATURE FOR EITHER SPACE, AN ALARM SHALL BE SENT TO THE BAS SYSTEM.

REFRIGERATION SYSTEM SEQUENCE OF OPERATIONS

NORMAL OPERATION

1. DURING NORMAL OPERATION, THE THREE-WAY CONTROL VALVE SHALL BE IN THE "OPEN" POSITION TO ALLOW FLOW OF CHILLED WATER, THE THREE-WAY MANUAL VALVE SHALL BE SET TO THE "OPEN" POSITION TO ALLOW FLOW OF DOMESTIC WATER TO THE THREE-WAY CONTROL VALVE. IF REQUIRED, AND ALL MANUAL SERVICE ISOLATION VALVES SHALL BE SET TO THE "OPEN" POSITION.
2. UPON A RISE IN THE SPACE TEMPERATURE OF THE WALK-IN FREEZER OR COOLER TO 2°F ABOVE THE SETPOINT TEMPERATURE (ADJUSTABLE), AS DETECTED BY THE WALL-MOUNTED THERMOSTAT LOCATED WITHIN EACH REFRIGERATED SPACE, THE EVAPORATOR, CONDENSER, AND COMPRESSOR SHALL POWER "ON" SIMULTANEOUSLY, AND CHILLED WATER SHALL FLOW THRU THE CONDENSER.
3. UPON A DROP IN THE SPACE TEMPERATURE OF THE WALK-IN FREEZER OR COOLER TO 2°F BELOW THE SETPOINT TEMPERATURE (ADJUSTABLE), AS DETECTED BY THE WALL-MOUNTED THERMOSTAT LOCATED WITHIN EACH SPACE, THE EVAPORATOR, CONDENSER, AND COMPRESSOR SHALL POWER "OFF" SIMULTANEOUSLY.
4. IF THE FLOW DETECTION SENSOR UPSTREAM OF THE THREE-WAY CONTROL VALVE IN EITHER SYSTEM DETECTS AN UNEXPECTED LACK OF FLOW, THE AFFECTED SYSTEM SHALL FOLLOW THE SEQUENCE OF OPERATION FOR "EMERGENCY OPERATION," AS OUTLINED BELOW.

EMERGENCY OPERATION

1. UPON A DETECTION OF "NO FLOW" THROUGH THE FLOW DETECTION SENSOR UPSTREAM OF THE THREE-WAY CONTROL VALVE FOR EITHER SYSTEM, AN ALARM SHALL ALERT THE BAS SYSTEM AND THE THREE-WAY CONTROL VALVE FOR THE AFFECTED SYSTEM SHALL ACTUATE TO A POSITION TO ALLOW THE SYSTEM TO BE TEMPORARILY FED BY THE DOMESTIC COLD WATER SYSTEM INSTEAD OF THE CHILLED WATER SYSTEM. THE THREE-WAY DRAIN VALVE SHALL SIMULTANEOUSLY ACTUATE TO A POSITION TO ALLOW THE SYSTEM RETURN WATER TO BE DIRECTED TO THE BUILDING SANITARY SYSTEM.
 - 1.1. ONCE FLOW HAS BEEN RESTORED THROUGH THE FLOW DETECTION SENSOR UPSTREAM OF THE THREE-WAY CONTROL VALVE, THE THREE-WAY CONTROL VALVE SHALL ACTUATE BACK TO THE NORMAL OPERATING POSITION, THE ALARM TO THE BAS SHALL TURN OFF, AND THE SYSTEM SHALL FOLLOW THE SEQUENCE OF OPERATION FOR "NORMAL OPERATION," AS OUTLINED ABOVE.
2. UPON A DETECTION OF "FLOW" THROUGH THE FLOW DETECTION SENSOR DOWNSTREAM OF THE THREE-WAY CONTROL VALVE FOR EITHER SYSTEM, AN ALARM SHALL ALERT THE BAS SYSTEM, THE EVAPORATOR, CONDENSER, AND COMPRESSOR SHALL POWER "OFF," AND THE TWO-WAY CONTROL VALVE UPSTREAM OF THE EVAPORATOR SHALL ACTUATE TO THE "CLOSED" POSITION.
 - 2.1. UPON A DETECTION OF "FLOW" THROUGH THE FLOW DETECTION SENSOR DOWNSTREAM OF THE THREE-WAY CONTROL VALVE, THE EVAPORATOR, CONDENSER, AND COMPRESSOR SHALL POWER "ON," AND THE TWO-WAY CONTROL VALVE UPSTREAM OF THE EVAPORATOR SHALL ACTUATE TO THE "OPEN" POSITION.
 - 2.2. ONCE FLOW HAS BEEN RESTORED THROUGH THE FLOW DETECTION SENSOR DOWNSTREAM OF THE THREE-WAY CONTROL VALVE, REFER BACK TO SECTION 1.1 OF THE "EMERGENCY OPERATION" SEQUENCE OF OPERATION ABOVE TO BRING THE SYSTEM(S) BACK TO NORMAL OPERATING CONDITIONS.

MAINTENANCE OPERATION

1. DURING ROUTINE MAINTENANCE OF ANY COMPONENT OF EITHER REFRIGERATION SYSTEM, THE TWO MANUAL THREE-WAY VALVES ON THE ASSOCIATED SYSTEM SHALL BE TURNED TO ALLOW DOMESTIC COLD WATER TO FLOW FREELY TO THE EVAPORATOR, AND ANY MANUAL SHUT-OFF VALVES SHALL BE TURNED TO THE "CLOSED" POSITION, AS REQUIRED, TO ISOLATE THE COMPONENT REQUIRING MAINTENANCE.
2. UPON COMPLETION OF MAINTENANCE TO ANY COMPONENT OF THE REFRIGERATION SYSTEM, THE TWO MANUAL THREE-WAY VALVES ON THE ASSOCIATED SYSTEM(S) SHALL BE RETURNED TO THEIR NORMAL OPERATING POSITIONS TO ALLOW CHILLED WATER TO FLOW FREELY TO THE EVAPORATOR, AND ANY MANUAL SHUT-OFF VALVES THAT WERE TURNED TO THE "CLOSED" POSITION TO ISOLATE A COMPONENT SHALL BE RETURNED TO THE "OPEN" POSITION.

SYMBOLS LEGEND			
CHWS	CHILLED WATER SUPPLY		FLOW DETECTION SENSOR
CHWR	CHILLED WATER RETURN		THREE-WAY CONTROL VALVE
DCW	DOMESTIC COLD WATER		MANUAL GATE VALVE
	MANUAL THREE-WAY VALVE		THERMOSTATIC EXPANSION VALVE
	UNION		THERMOSTAT

F1

CONTROL SYSTEM SCHEMATIC, POINTS LIST, AND SEQUENCE OF OPERATION

SCALE: NTS

Revisions:	Date:

CONSULTANT

ARCHITECT/ENGINEER OF RECORD
ENGINEER WATSON ENGINEERING, PC 1112 STATE ROUTE 434 OWEGO, NY 13827 0: 607-223-4334

STAMP

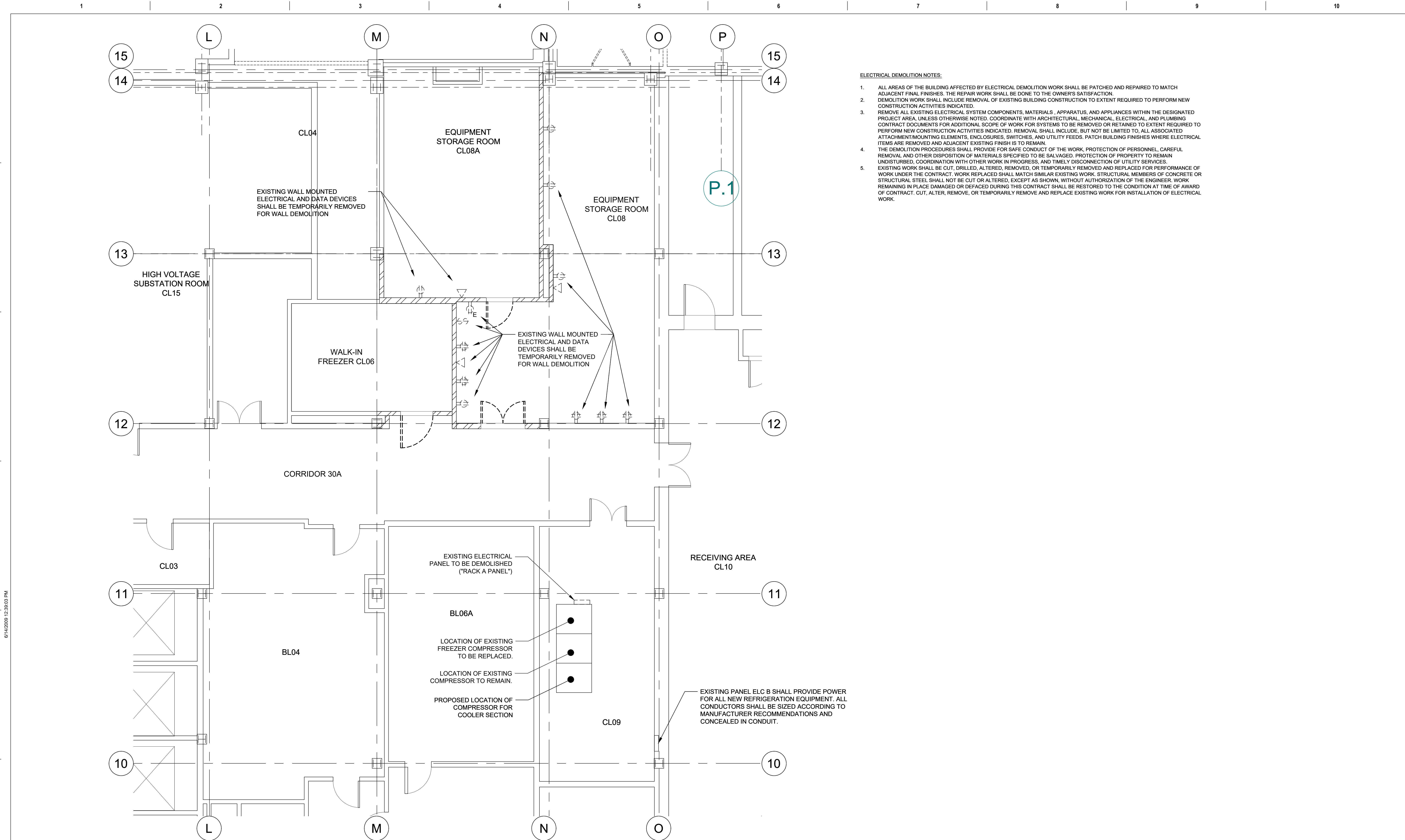
U.S. Department of Veterans Affairs

Drawing Title MECHANICAL SCHEDULES, NOTES, AND DETAILS
Approved: Project Director

Phase 100% SUBMISSION

Project Title CANTEEN FREEZER SLAB REPAIR AND WALK-IN FREEZER REPLACEMENT
Location SYRACUSE VAMC, RM CL06
Issue Date 4-27-18
Checked JWE
Drawn MPL

Project Number 528A7-17-720
Building Number 1
Drawing Number M601

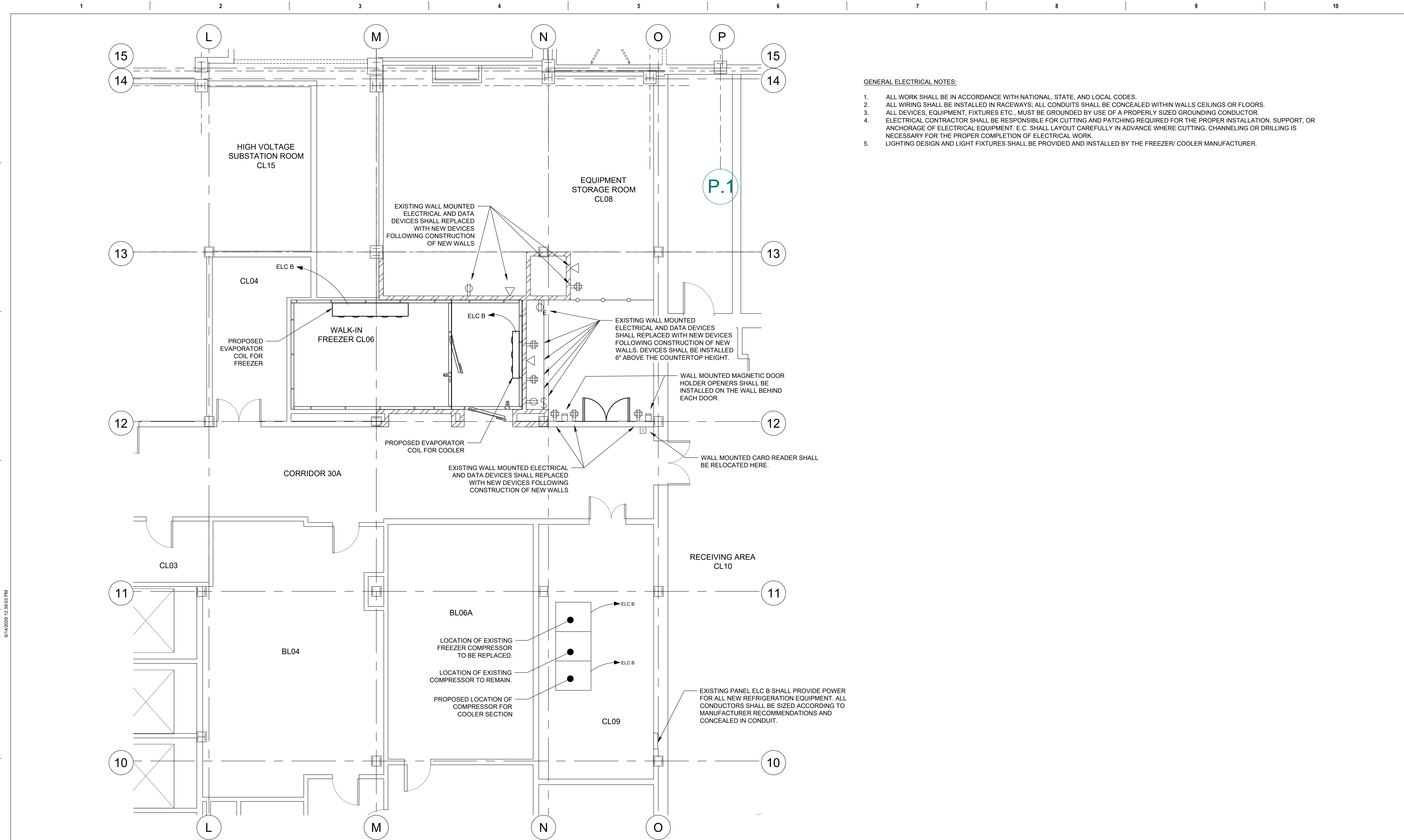


ELECTRICAL DEMOLITION NOTES:

1. ALL AREAS OF THE BUILDING AFFECTED BY ELECTRICAL DEMOLITION WORK SHALL BE PATCHED AND REPAIRED TO MATCH ADJACENT FINAL FINISHES. THE REPAIR WORK SHALL BE DONE TO THE OWNER'S SATISFACTION.
2. DEMOLITION WORK SHALL INCLUDE REMOVAL OF EXISTING BUILDING CONSTRUCTION TO EXTENT REQUIRED TO PERFORM NEW CONSTRUCTION ACTIVITIES INDICATED.
3. REMOVE ALL EXISTING ELECTRICAL SYSTEM COMPONENTS, MATERIALS, APPARATUS, AND APPLIANCES WITHIN THE DESIGNATED PROJECT AREA, UNLESS OTHERWISE NOTED. COORDINATE WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACT DOCUMENTS FOR ADDITIONAL SCOPE OF WORK FOR SYSTEMS TO BE REMOVED OR RETAINED TO EXTENT REQUIRED TO PERFORM NEW CONSTRUCTION ACTIVITIES INDICATED. REMOVAL SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL ASSOCIATED ATTACHMENT/MOUNTING ELEMENTS, ENCLOSURES, SWITCHES, AND UTILITY FEEDS. PATCH BUILDING FINISHES WHERE ELECTRICAL ITEMS ARE REMOVED AND ADJACENT EXISTING FINISH IS TO REMAIN.
4. THE DEMOLITION PROCEDURES SHALL PROVIDE FOR SAFE CONDUCT OF THE WORK, PROTECTION OF PERSONNEL, CAREFUL REMOVAL AND OTHER DISPOSITION OF MATERIALS SPECIFIED TO BE SALVAGED, PROTECTION OF PROPERTY TO REMAIN UNDISTURBED, COORDINATION WITH OTHER WORK IN PROGRESS, AND TIMELY DISCONNECTION OF UTILITY SERVICES.
5. EXISTING WORK SHALL BE CUT, DRILLED, ALTERED, REMOVED, OR TEMPORARILY REMOVED AND REPLACED FOR PERFORMANCE OF WORK UNDER THE CONTRACT. WORK REPLACED SHALL MATCH SIMILAR EXISTING WORK. STRUCTURAL MEMBERS OF CONCRETE OR STRUCTURAL STEEL SHALL NOT BE CUT OR ALTERED, EXCEPT AS SHOWN, WITHOUT AUTHORIZATION OF THE ENGINEER. WORK REMAINING IN PLACE DAMAGED OR DEFACED DURING THIS CONTRACT SHALL BE RESTORED TO THE CONDITION AT TIME OF AWARD OF CONTRACT. CUT, ALTER, REMOVE, OR TEMPORARILY REMOVE AND REPLACE EXISTING WORK FOR INSTALLATION OF ELECTRICAL WORK.

F2 ELECTRICAL DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"

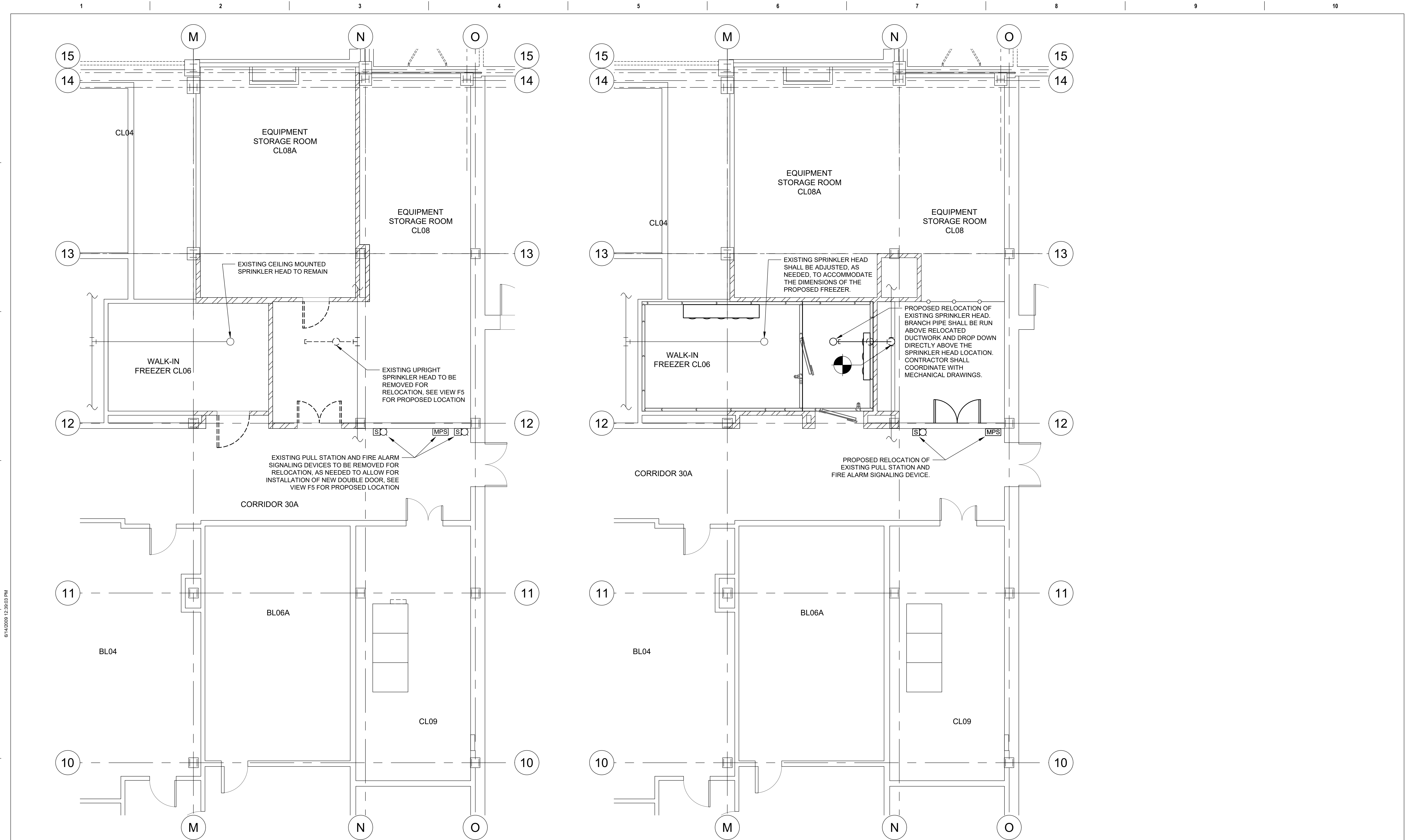
		CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	U.S. Department of Veterans Affairs	Drawing Title	Phase	Project Title	Project Number
			ENGINEER WATSON ENGINEERING, PC 1112 STATE ROUTE 434 OWEGO, NY 13827 0: 607-223-4334			ELECTRICAL DEMOLITION PLAN	100% SUBMISSION	CANTEEN FREEZER SLAB REPAIR AND WALK-IN FREEZER REPLACEMENT	528A7-17-720
						Approved: Project Director		Location SYRACUSE VAMC, RM CL06	Building Number 1
								Issue Date 4-27-18	Drawing Number ED101
								Checked JWE	Drawn MPL



- GENERAL ELECTRICAL NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH NATIONAL, STATE, AND LOCAL CODES.
 2. ALL WIRING SHALL BE INSTALLED IN RACEWAYS; ALL CONDUITS SHALL BE CONCEALED WITHIN WALLS CEILINGS OR FLOORS.
 3. ALL DEVICES, EQUIPMENT, FIXTURES ETC., MUST BE GROUNDED BY USE OF A PROPERLY SIZED GROUNDING CONDUCTOR.
 4. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CUTTING AND PATCHING REQUIRED FOR THE PROPER INSTALLATION, SUPPORT, OR ANCHORAGE OF ELECTRICAL EQUIPMENT. E.C. SHALL LAYOUT CAREFULLY IN ADVANCE WHERE CUTTING, CHANNELING OR DRILLING IS NECESSARY FOR THE PROPER COMPLETION OF ELECTRICAL WORK.
 5. LIGHTING DESIGN AND LIGHT FIXTURES SHALL BE PROVIDED AND INSTALLED BY THE FREEZER/ COOLER MANUFACTURER.

F2 PROPOSED ELECTRICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"

		CONSULTANT	ARCHITECT/ENGINEER OF RECORD	STAMP	Drawing Title ELECTRICAL PLAN	Phase 100% SUBMISSION	Project Title CANTEEN FREEZER SLAB REPAIR AND WALK-IN FREEZER REPLACEMENT	Project Number 528A7-17-720 Building Number 1
			ENGINEER WATSON ENGINEERING, PC 1112 STATE ROUTE 434 OWEGO, NY 13827 0: 607-223-4334					
Revisions:		Date:			Approved: Project Director		Location SYRACUSE VAMC, RM CL06	Drawing Number E101
							Issue Date 4-27-18	Checked JWE Drawn MPL



Revisions:		Date:		CONSULTANT		ARCHITECT/ENGINEER OF RECORD		STAMP		Drawing Title		Phase		Project Title		Project Number	
						ENGINEER				FIRE PROTECTION PLAN		100% SUBMISSION		CANTEEN FREEZER SLAB REPAIR AND WALK-IN FREEZER REPLACEMENT		528A7-17-720	
						WATSON ENGINEERING, PC				Approved: Project Director				SYRACUSE VAMC, RM CL06		Building Number	
						1112 STATE ROUTE 434								Issue Date		1	
						OWEGO, NY 13827								4-27-18		Checked	
						0: 607-223-4334								JWE		Drawn	
														MPL		FP101	

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